TEREX AERIALS
Milwaukee, Wisconsin

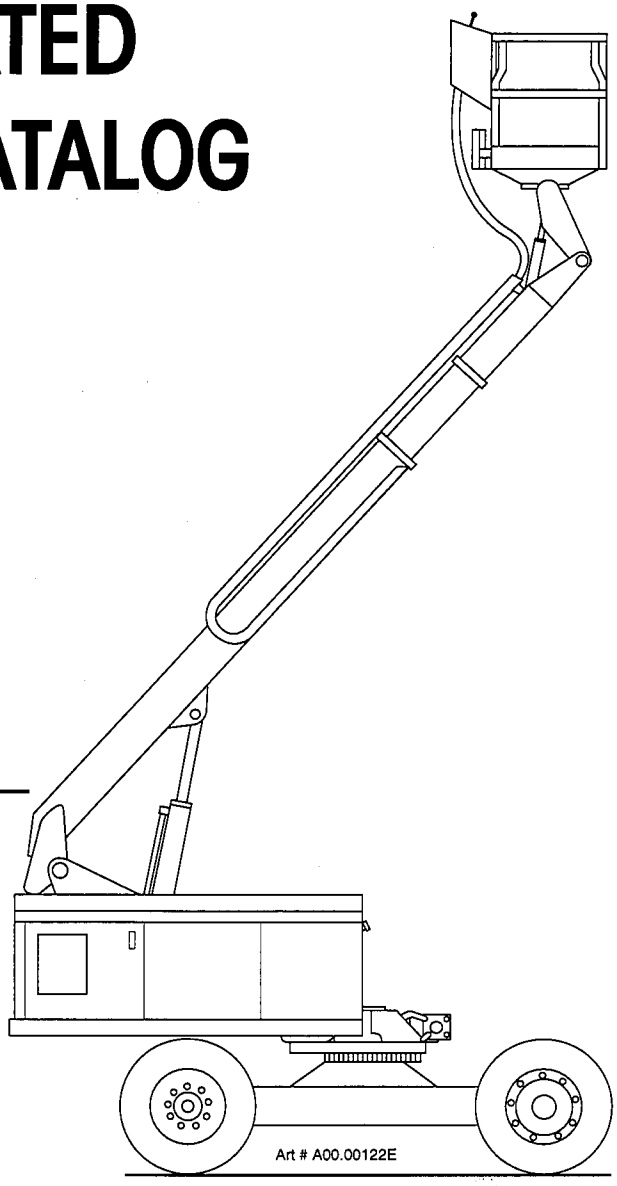
MODEL MP 80

ILLUSTRATED PARTS CATALOG

FOR MACHINE
SERIAL NUMBER

_____

_____



Part No. 89-180005

INTRODUCTION

This Illustrated Parts Catalog is designed to help you identify and order the correct replacement parts for use on SIMON MP SERIES SELF-PROPELLED AERIAL WORK PLATFORMS. The "MP" Series includes "MP", "MPE", "MPH", "MPL", "MPN", "MP ... Z", and "IMP" models. All parts represented here are manufactured and supplied in accordance with Simon Aerials quality standards. We recommend that you use GENUINE SIMON AERIALS PARTS to insure maximum SAFETY and PERFORMANCE.

Prices for all parts listed in this Catalog can be found in a separate Spare Parts Price List. Please contact Simon Aerials Parts Department for the latest edition of the Spare Parts Price List.

HOW TO USE THIS CATALOG

The Cover Page indicates the specific model or models covered by this Parts Catalog.

The "Primary Machine Component Groups" page illustrates the four major assemblies, along with their "Section" number.

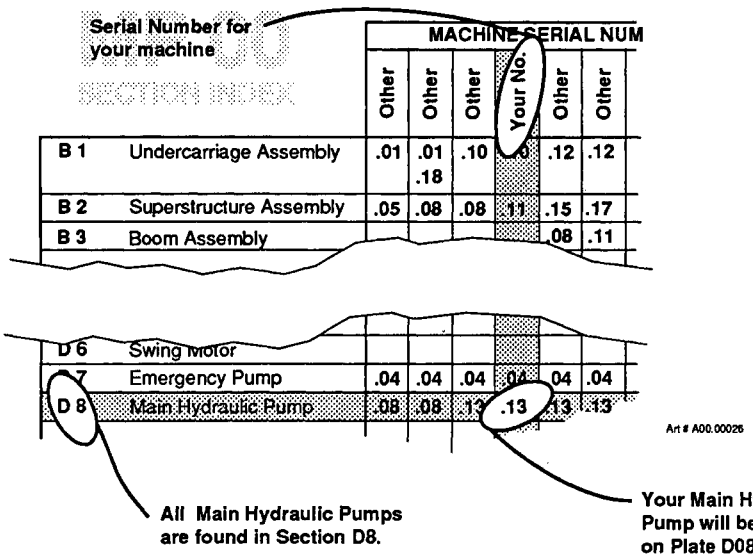
The Parts Catalog is divided into "Sections", numbered from B 1 through F 99. Each section contains the individual parts that make up a major component, assembly or item.

- The first four sections (B 1 through B 4) contain the major assemblies, or "Primary Machine Component Groups".
- Sections that follow contain sub-assemblies or components of these "major" assemblies.
  - Section C contains Subassemblies,
  - Section D contains Hydraulic Components,
  - Section E contains Electrical Components, and
  - Section F contains Mechanical Components.

Because of the "custom" nature of the MP Series machines, the index of this Parts Catalog is structured to indicate the components of specific units by serial number. The "Section Index" pages list the sections, page numbers and page titles that are relevant to this model, and that are contained in this Catalog. Some pages not referring specifically to YOUR PARTICULAR MACHINE may be included in this Catalog.

The serial number of YOUR MACHINE can be found on the serial number plate located inside the engine compartment. This serial number will also be found at the top of the "Section Index", and the page plates showing the components of YOUR MACHINE will be found in the column beneath that serial number.

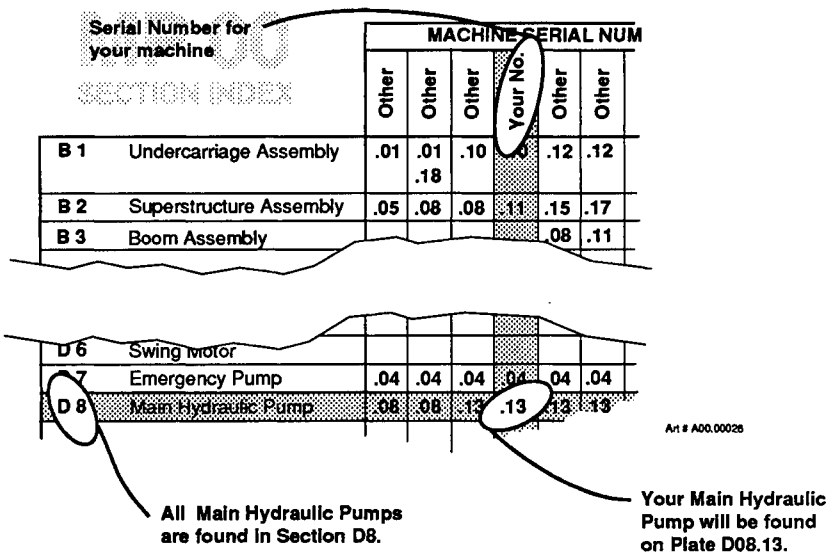
When selecting parts for a specific machine, be sure to verify the machine model number, and serial number or date code (found on the data plate).



When ordering parts, always give:

1. Model and Serial Number
2. Item Part Number/ Description
3. Order Quantity

Items with indented descriptions are components of the non-indented item directly above.



If a part number, blank space, or an indication "SEE INDEX" in the "PART NO." column of the page plate is followed by a plate number in the "SEE SECTION" column, refer to the "Section Index", and the plate indicated for YOUR PARTICULAR MACHINE to see a further breakdown of components for that part. If no plate number is listed in the "Section Index" column for YOUR PARTICULAR MACHINE, a check of page plates listed for other serial numbers may help identify SIMILAR parts.

CAUTION

Parts that appear to be similar may in fact be quite different.

Some assembled items, such as hydraulic cylinders, may have been supplied by more than one source. While the assemblies may be able to be used interchangeably, FOR SAFETY'S SAKE, do not mix components or repair kits.

Please confirm the make of the assembly on the unit before ordering or installing replacement parts. When in doubt, consult Simon Aerials Parts Department for assistance.

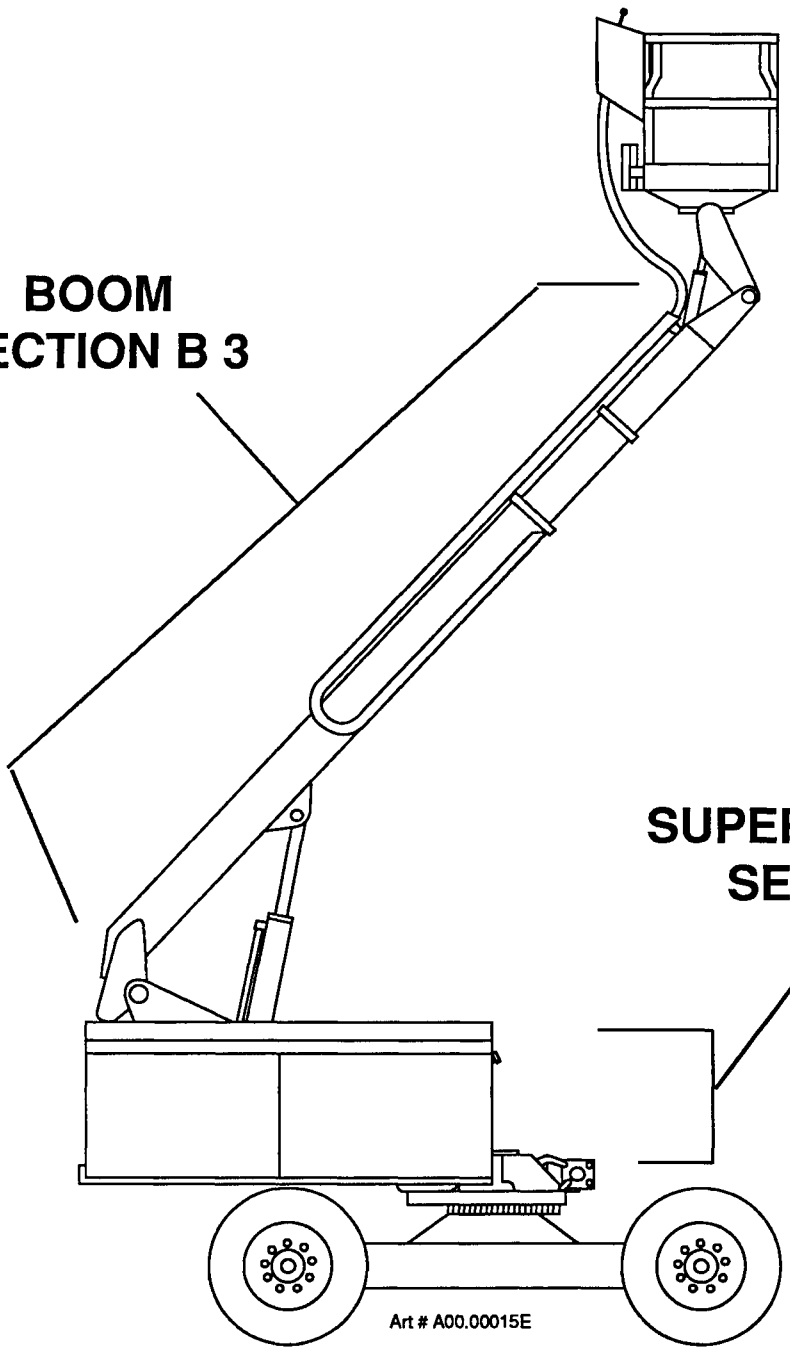
If a part number is not listed for a selected item, please provide this additional information:

4. Parts Plate number, Item Number and Description of the desired item, OR
5. Part Number of the next assembly ("Parent" Part), if the desired item is not listed.

Left and right-hand, front and rear should be determined as though you are standing at the Platform Control Console, with the Platform in stowed position (over the non-steering axle on most models; refer to large "FORWARD" arrow on top of undercarriage). All dimensions are in inches unless otherwise specified.

SIMON AERIALS INC. reserves the right to change, improve, modify or expand features of its equipment. Therefore, specifications, models or equipment are subject to change without notice, and without incurring obligation to change, improve, modify or expand features of previously delivered units.

All SIMON AERIALS INC. manuals are periodically updated to reflect changes that occur in the equipment. Please contact Simon Aerials Technical Support Department with any questions you may have regarding your particular machine, or the availability of more recent manuals.

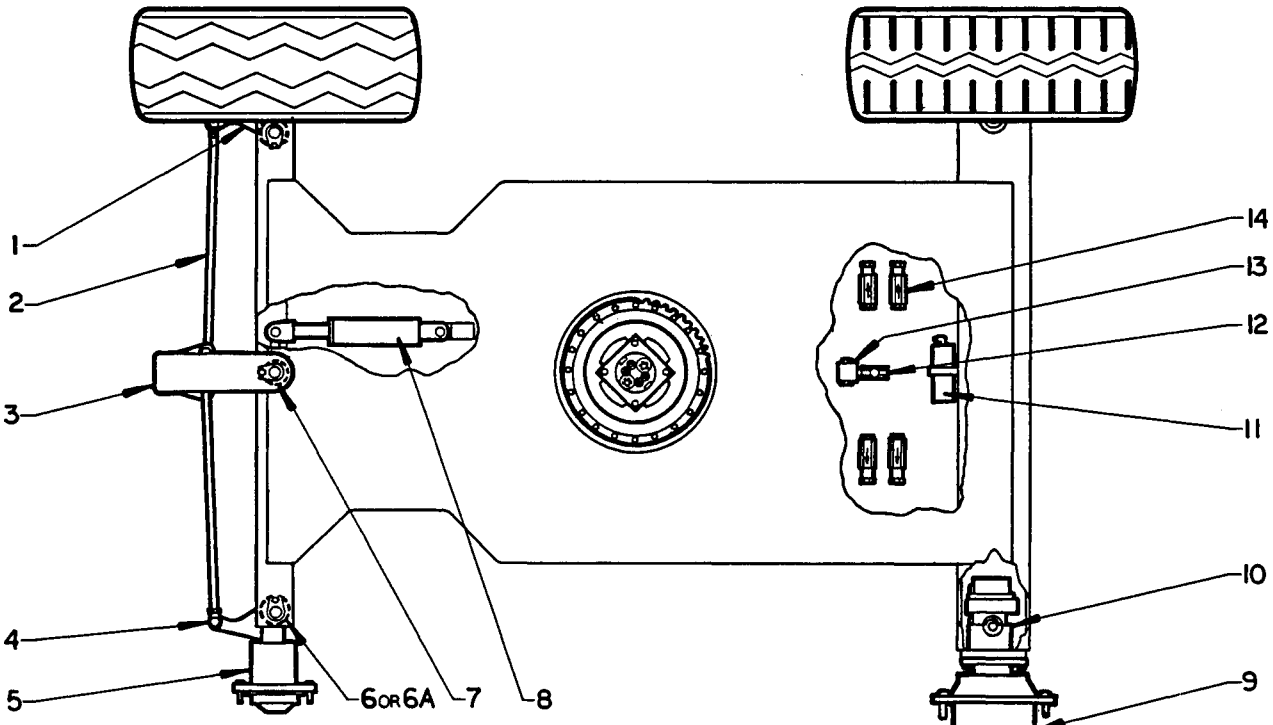


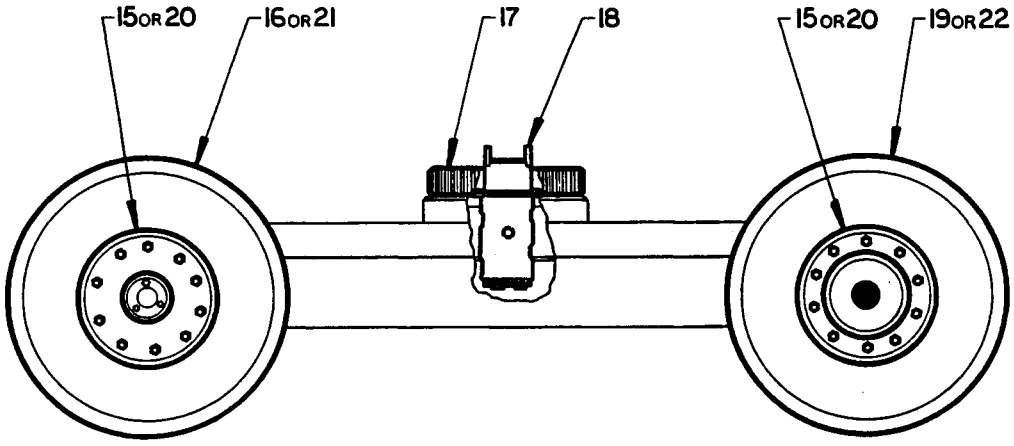
TITLE	PRIMARY MACHINE COMPONENT GROUPS	
SIMON AERIALS INC.	PART NO.	PLATE NO.

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SEA-206184-7	C1.5	R.H. SPINDLE ASSEMBLY	1
2	SCA-205108-6		TIE ROD	2
3	SDW-202429-5		CENTER STEER ARM	1
4	08-007100		TIE ROD END	4
5	SEA-206183-4	C1.6	L.H. SPINDLE ASSEMBLY	1
6	08-004200		THRUST WASHER (TO 09/84)	2
6A	08-014100		THRUST WASHER (09/84)	2
7	08-002000		FLANGE BUSHING	2
8	SEE INDEX	D1	STEER CYLINDER	1
9	SEE INDEX	F1	TORQUE HUB	2
10	SEE INDEX	D3	DRIVE MOTOR/BRAKE	2
11	01-001500	D4.1	ACCUMULATOR	1
12	01-000500		NEEDLE VALVE	1
13	01-001400		SHUTTLE VALVE	1
14	01-036100		FLOW CONTROL VALVE, 17 GPM	4
15	SDW-202256-7		RIM WELDMENT-17.5" (TO 02/85)	4
16	02-001500		STEER TIRE-14 X 17.5 (TO 02/85)	2
17	08-009900		SWING BEARING	1
18	SEE INDEX	D2	HYDRAULIC SWIVEL	1
19	02-001400		DRIVE TIRE-14 X 17.5 (TO 02/85)	2
20	02-008400		RIM WELDMENT-19.5" (02/85)	4
21	02-001200		STEER TIRE - 15 X 19.5 (20/85)	2
22	02-008300		DRIVE TIRE - 15 X 19.5 (02/85)	2

DESCRIPTION	PART NO.
UNDERCARRIAGE ASSEMBLY	CAA-207259-7





NOTE: SEE PAGE B1.11 FOR 4WD COMPONENTS

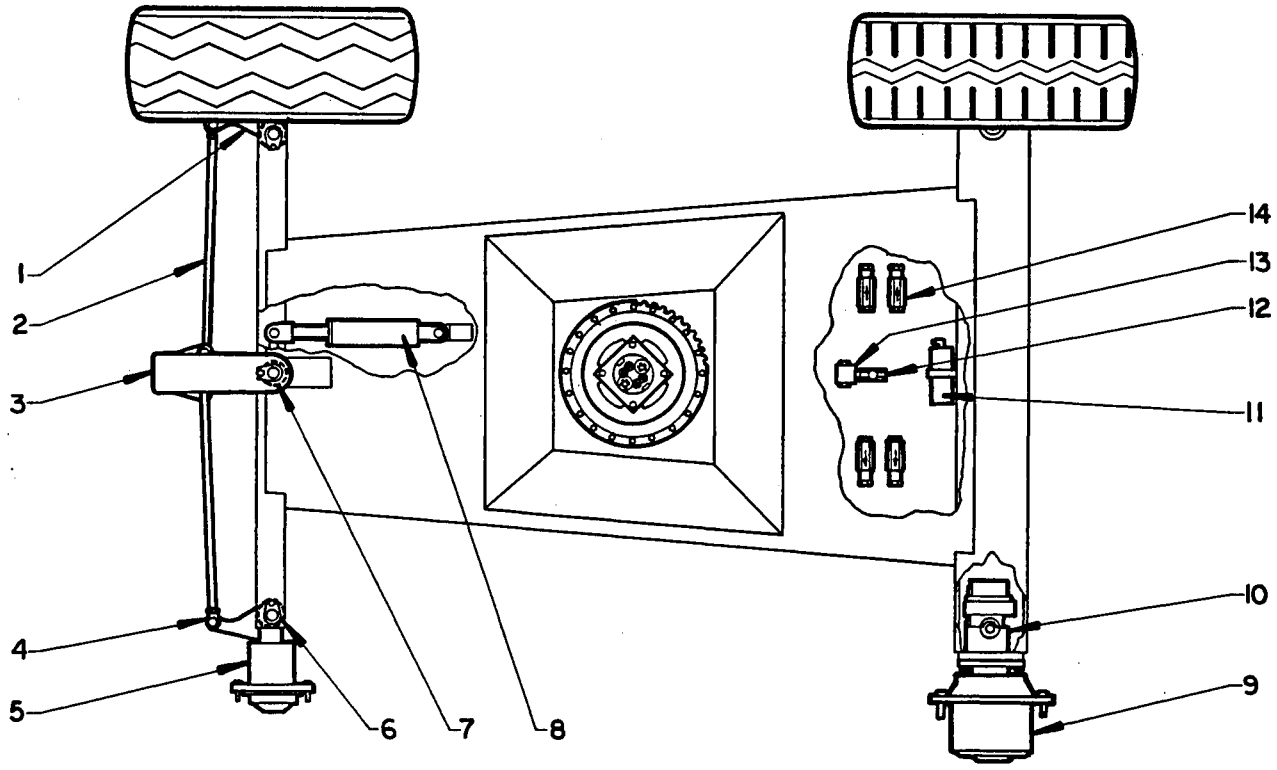
0285

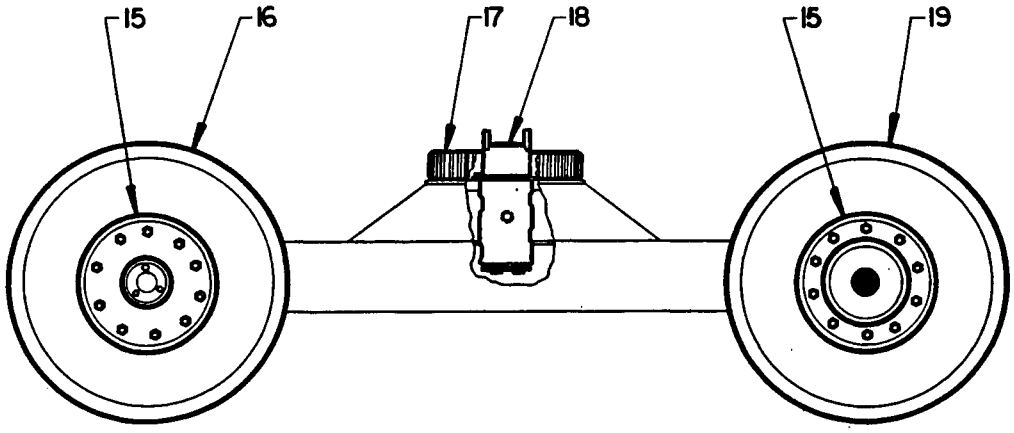
DESCRIPTION	PART NO.
UNDERCARRIAGE ASSEMBLY	CAA-207259-7

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SEA-206184-7	C1.5	R.H. SPINDLE ASSEMBLY	1
2	SCA-205108-6		TIE ROD	2
3	SDW-202429-5		CENTER STEER ARM	1
4	08-007100		TIE ROD END	4
5	SEA-206183-4	C1.6	L.H. SPINDLE ASSEMBLY	1
6	08-014100		THRUST WASHER	2
7	08-002000		FLANGE BUSHING	2
8	SEE INDEX	D1	STEER CYLINDER	1
9	SEE INDEX	F1	TORQUE HUB	2
10	SEE INDEX	D3	DRIVE MOTOR/BRAKE	2
11	01-001500	D4.1	ACCUMULATOR	1
12	01-000500		NEEDLE VALVE	1
13	01-001400		SHUTTLE VALVE	1
14	01-036100		FLOW CONTROL VALVE, 17 GPM	4
15	02-008400		RIM WELDMENT	4
16	02-001200		STEER TIRE	2
17	08-009900		SWING BEARING	1
18	SEE INDEX	D2	HYDRAULIC SWIVEL	1
19	02-008300		DRIVE TIRE	2

DESCRIPTION	PART NO.
UNDERCARRIAGE ASSEMBLY	CAA-207260-5





NOTE: SEE PAGE B1.11 FOR 4WD COMPONENTS

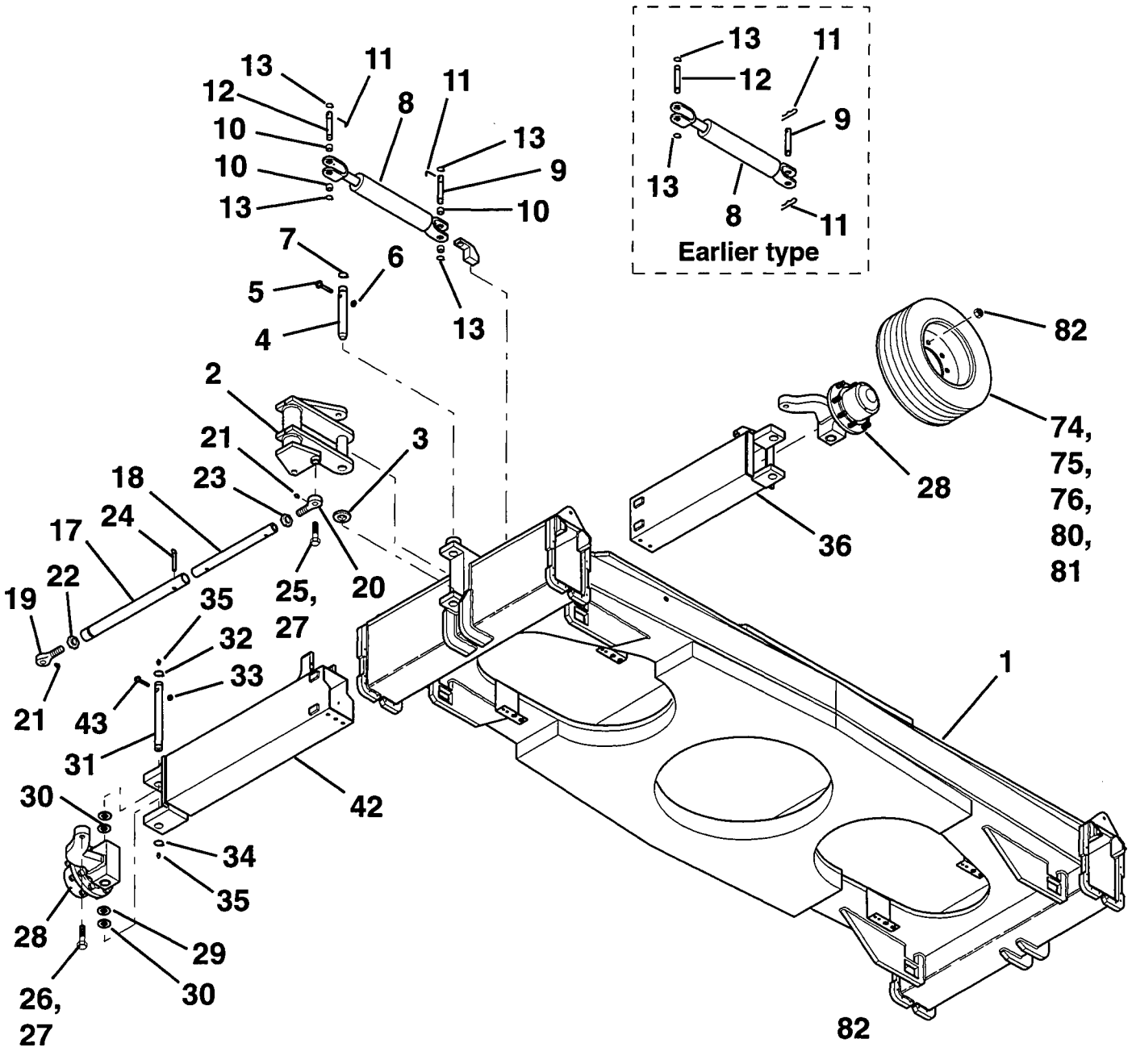
0285

DESCRIPTION	PART NO.
UNDERCARRIAGE ASSEMBLY	CAA-207260-5

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			This undercarriage for long reach, heavy capacity MP or RP series (MPH 80, MP 95, MP 110, RP 120) with extendable axles. For 4WD components, see plate B01.28.	
1	2095804		UNDERCARRIAGE WELDMENT (for two-wheel drive)	1
2	2095932		ARM, CENTER STEER (without tow package)	
	(style 1)		specify drilled for 1" dia. steer cylinder pin (**no** bearings).	1
	(style 2)		specify drilled for 1-1/4" O.D. steer cylinder pin bearings.	1
			(Note: with tow package, **also order** tow bar pin tube, part number 2103600. Welding required.)	
3	08-014100		WASHER, THRUST (1-1/2" I.D., 3-1/2" O.D.)	2
4	2089962		PIN, STEER ARM (1-1/2" dia. x 19" long)	1
5	07-003095		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/2", Grade 5)	1
6	07-058400		NUT, LOCK (1/2"-13, Grade 8)	1
7	08-040900		RING, RETAINING (1-1/2")	1
8	See index	D01. - -	CYLINDER, STEER	1
9			PIN, STEER CYLINDER (base end)	
	04-003401		Early type (1" dia. x 3-1/2" long, used with hairpin clip)	1
	2328180		Later type (1" x 3-15/16", used with "L" pin 2197360)	1
10	08-070400		BEARING, SLEEVE (used with later style pins) (Bronze, 1" I.D., 1-1/4" O.D., 1/2" long)	4
11	04-003404		CLIP, HAIR PIN (for earlier style pins)	2
	2197360		PIN, LOCK ("L"-type, 2" [51 mm] long, for later style pins)	2
12			PIN, STEER CYLINDER (rod end)	
	2171250		Early type (1" dia. x 3-7/16" long, used with hairpin clip)	1
	2328180		Later type (1" x 3-15/16", used with "L" pin 2197360)	1
13	08-040600		RING, RETAINING (1") (2 used with earlier pins, 4 later)	A.R.
14	10-042700		BOOT, STEER CYLINDER (option, not shown) (3" I.D., 4-1/2" O.D., 10" long)	1
15	09-008500		CLAMP, HOSE (3-1/2", worm type)	1
16	09-008700		CLAMP, HOSE (4-1/2", worm type)	1
17	2091367		TIE ROD (outer)	2
18	2091358		TIE ROD (inner)	2
19	08-016800		END, TIE ROD (Right hand thread) (includes grease fitting)	2
20	08-016900		END, TIE ROD (Left hand thread) (includes grease fitting)	2
21	08-053100		FITTING, GREASE (1/4"-28, Straight)	4
22	07-090004		NUT, JAM (1-1/4"-12, Right hand thread)	2
23	07-090005		NUT, JAM (1-1/4"-12, Left hand thread)	2
24	07-080001		PIN, HITCH (3/4" x 3")	2
25	07-090008		CAP SCREW, HEX HEAD (1"-8 x 3-1/2", Grade 8)	2
26	07-090009		CAP SCREW, HEX HEAD (1"-8 x 5", Grade 8)	2
27	07-090011		NUT, TOP LOCK (1"-8)	2

TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 1 OF 5)		
PLATE NO. B01.12	**SIMON AERIALS INC.**	REV. 29 JUL., 1994	**PART NO.**



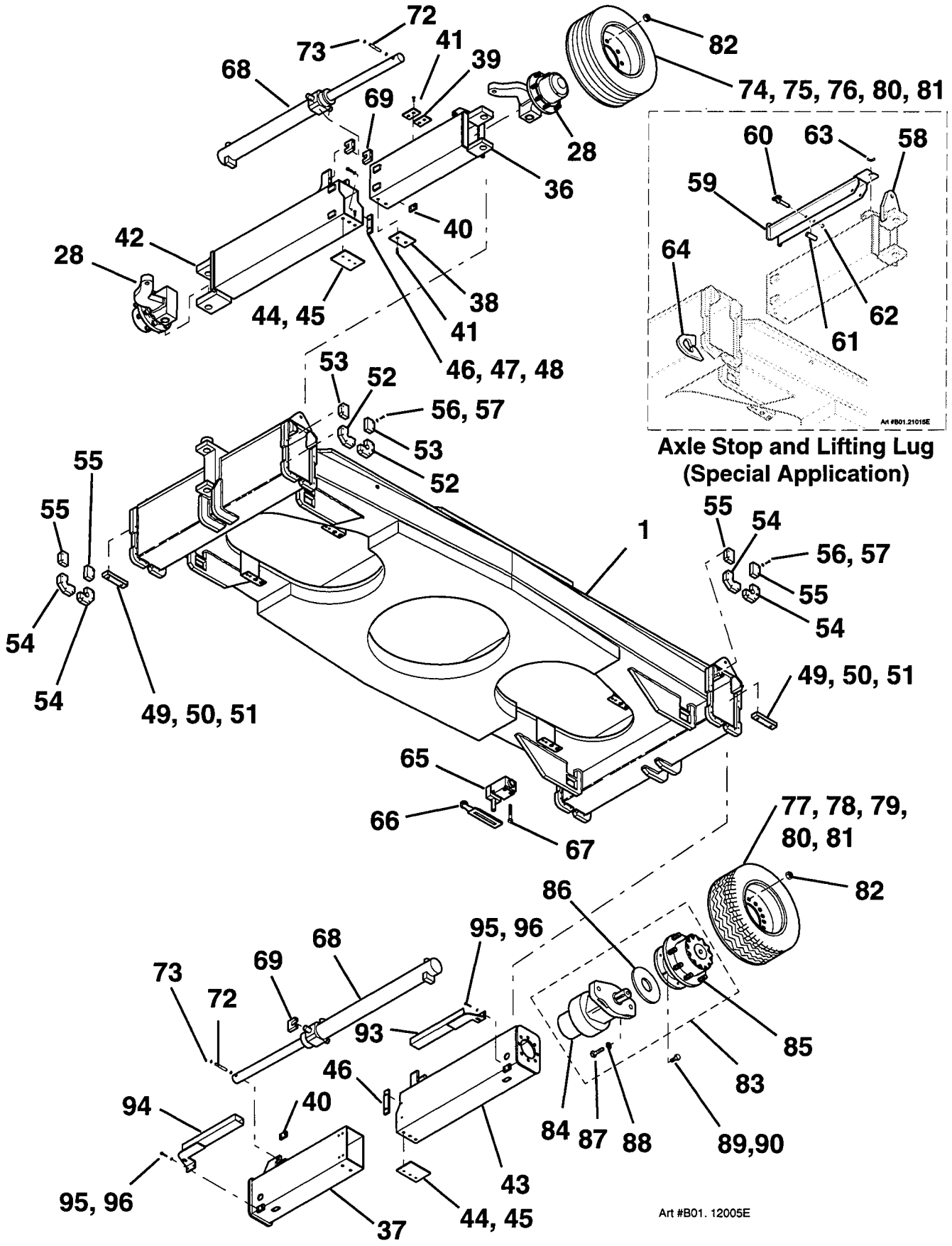
Art #B01.12004E

TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 1 OF 5)		
SIMON AERIALS INC. REV. 29 JUL., 1994		PART NO.	PLATE NO. B01.12

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
28	See plate . .	C01. - -	SPINDLE ASSEMBLY (for two-wheel drive)	2
29	08-014100		WASHER, THRUST (1-1/2" I.D., 3-1/2" O.D.)	4
30	2142180		RETAINER, STEER SPINDLE THRUST WASHER	4
31	2091419		PIN, SPINDLE (1-1/2" dia. x 14-5/16" long)	2
32	07-004102		CAP SCREW, HEX HEAD (1/2"-13 x 4-1/2", Grade 8)	2
33	07-058400		NUT, LOCK (1/2"-13, Grade 8)	2
34	08-040900		RING, RETAINING (1-1/2")	4
35	08-051300		FITTING, GREASE (1/4"-28, 90°)	4
36	2091176		TUBE ASSEMBLY, STEER AXLE (inner)	1
37	2142040		TUBE ASSEMBLY, NON STEER AXLE (inner)	1
38	2091329		PLATE, INNER AXLE TUBE WEAR (lower)	2
39	2130340		PLATE, INNER AXLE TUBE WEAR (upper) (earlier versions)	4
	2302270		BEARING PAD AND STOP (inner axle) (later versions)	8
40	2091279		PLATE, INNER AXLE TUBE WEAR (side)	4
41	07-090069		CAP SCREW, FLAT HEAD (1/2"-13 x 1", Grade 5)	28
42	2091181		TUBE ASSEMBLY, STEER AXLE (outer)	1
43	2142020		TUBE ASSEMBLY, NON STEER AXLE (outer)	1
44	2091334		PLATE, OUTER AXLE TUBE WEAR (lower)	2
45	07-090069		CAP SCREW, FLAT HEAD (1/2"-13 x 1", Grade 5)	6
46	2091297		PLATE, OUTER AXLE TUBE WEAR (side)	2
47	07-003085		CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5) (to attach side wear plates. Grind flush after installation)	4
48	07-065018		WASHER, HELICAL LOCK (1/2")	4
49	2091284		STOP BAR, OUTER AXLE TUBE (upper)	2
50	07-004154		CAP SCREW, HEX HEAD (3/4"-10 x 3-1/4", Grade 8) (to attach stop bar to undercarriage)	4
51	07-065022		WASHER, HELICAL LOCK (3/4")	4
52	2090922		RETAINER, AXLE (inner tube lower) (Drill at assembly)	4
53	2090940		RETAINER, AXLE (inner tube upper) (Drill at assembly)	4
54	2090870		RETAINER, AXLE (outer tube lower) (Drill at assembly)	4
55	2090937		RETAINER, AXLE (outer tube upper) (Drill at assembly)	4
56	07-004133		CAP SCREW, HEX HEAD (5/8"-11 x 3", Grade 8)	48
57	07-065021		WASHER, HELICAL LOCK (5/8")	48
58	Ref.		LUG, LIFTING (Welded to axle tubes. Special application)	4
59	2331260		STOP/ COVER, AXLE CYLINDER (special application)	2
60	Call Simon		PIN, HITCH (Axle extend stop retaining)	4
61	2331370		TUBE, HITCH PIN COVER	4
62	Call Simon		RING, RETAINING	4
63	Call Simon		NUT, WING	4
64	2333400		LUG, TIE DOWN (special application)	4

TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 2 OF 5)		
PLATE NO. B01.12	**SIMON AERIALS INC.**	REV. 29 JUL., 1994	PART NO.



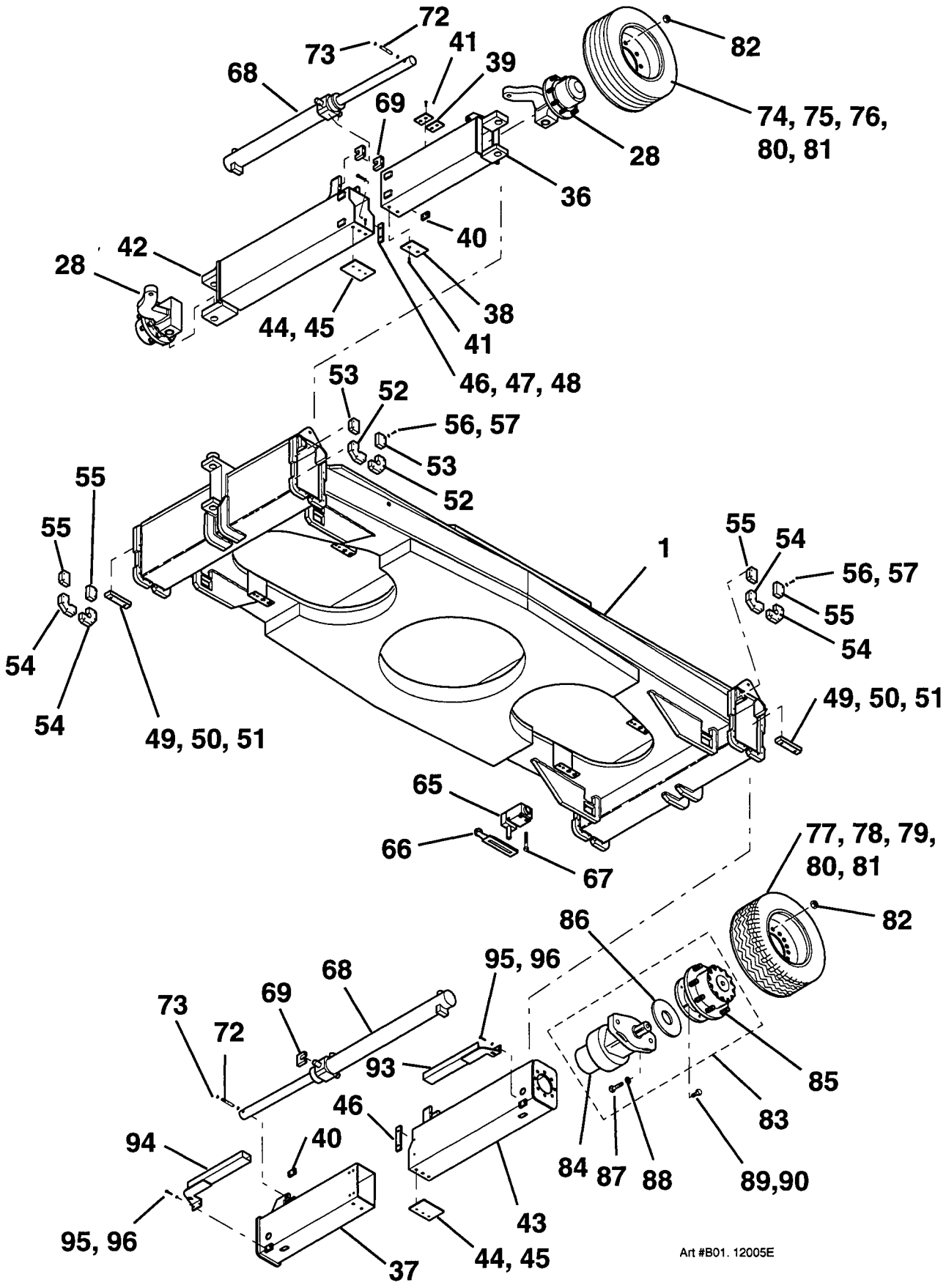
Axle Stop and Lifting Lug (Special Application)

TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 2 OF 5)		
SIMON AERIALS INC. REV. 29 JUL., 1994		**PART NO.**	**PLATE NO.** B01.12

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
65	03-493800		SWITCH, LIMIT (side rotary) (2 normally open, 2 normally closed contacts)	4
66	03-494300		ARM, LIMIT SWITCH (fixed roller, 2-1/2")	4
67	07-008354		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8)	8
68	See index	D22. - -	CYLINDER, AXLE EXTEND	2
69	2090977		RETAINER, AXLE EXTEND CYLINDER (Trunnion mount)	4
70	07-003092		CAP SCREW, HEX HEAD (1/2"-13 x 2-3/4", Grade 5)	8
71	07-065018		WASHER, HELICAL LOCK (1/2")	8
72	2091400		PIN, AXLE CYLINDER (rod end) (1" dia. x 3-3/4" long)	2
73	08-040600		RING, RETAINING (1")	4
74	3509180		TIRE AND WHEEL ASSEMBLY, STEER (Liquid filled)	2
	3512060		TIRE AND WHEEL ASSEMBLY, STEER (Foam filled)	2
75	02-003700		TIRE (15-22.5, 16 Ply, Tubeless, non-directional tread)	1
76	2029704		WHEEL ASSEMBLY (22.5" x 12-1/4")	1
77	3511440		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2
	3512050		TIRE AND WHEEL ASSEMBLY, DRIVE (Foam filled)	2
78	02-003600		TIRE (15-22.5, 16 Ply, Tubeless, directional tread)	1
79	2029704		WHEEL ASSEMBLY (22.5" x 12-1/4")	1
80	02-038600		TIRE, NON MARKING (Optional 12" x 20" solid tire)	4
81	2196870		WHEEL ASSEMBLY (Two piece, 20" x 8", for optional solid tire only)	4
82	07-058123		NUT, FLANGED (Self locking) (3/4"-16, Grade 5)	40
83	3510540		DRIVE HUB ASSEMBLY	2
84	See index	D03. - -	MOTOR, HYDRAULIC	1
85	See index	F01. - -	HUB, TORQUE	1
86	01-030900		SEAL	1
87	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	2
88	07-065018		WASHER, HELICAL LOCK (1/2")	2
89	07-003128		CAP SCREW, HEX HEAD (5/8"-11 x 1-3/4", Grade 5)	16
90	07-065021		WASHER, HELICAL LOCK (5/8")	16
91	2141980		TUBE, HYDRAULIC (Drive motor, right) (not shown)	1
92	2141990		TUBE, HYDRAULIC (Drive motor, left) (not shown)	1
93	2142270		CARRIER, HOSE (non-steer axle, left)	1
94	2142280		CARRIER, HOSE (non-steer axle, right)	1
95	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5) (to attach hose carriers)	4
96	07-065018		WASHER, HELICAL LOCK (1/2")	4

TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 3 OF 5)	
PLATE NO. B01.12	**SIMON AERIALS INC.** REV. 29 JUL., 1994	PART NO.

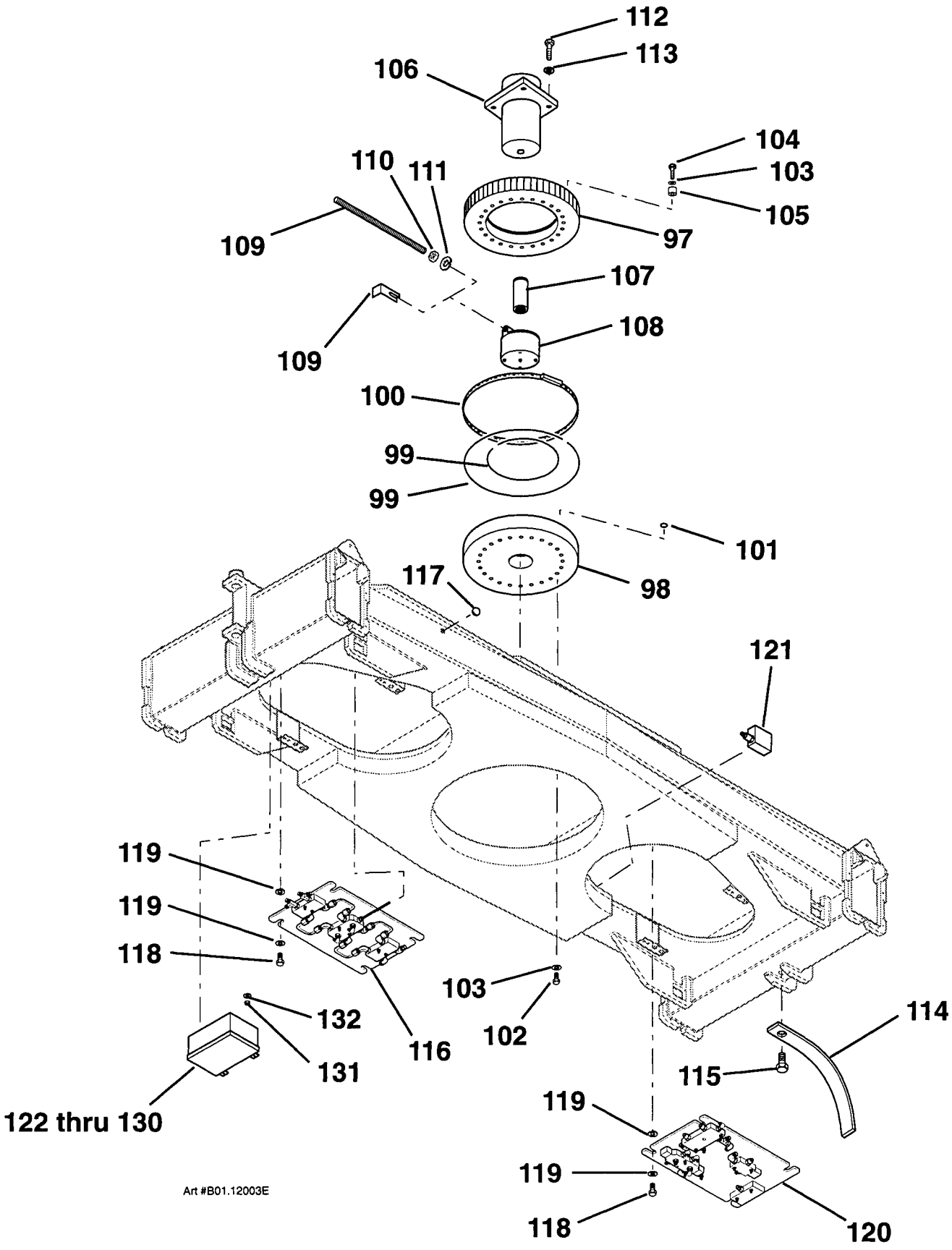


TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 3 OF 5)		
SIMON AERIALS INC. REV. 29 JUL., 1994		PART NO.	PLATE NO. B01.12

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
97	08-015000		SWING BEARING	1
98	2088419		PAN, SWING BEARING OIL	1
99	10-005500		SEAL, BEARING (Bulk item, order as needed.	
			17 Ft [5.2 M] used in this application)	A.R.
100	09-047600		CLAMP KIT, SEAL (1/2" wide stainless steel, with hardware)	
			(50 Ft [15.2 M] in kit is sufficient for two applications)	A.R.
101	01-040400		"O"-RING	18
102			CAP SCREW, HEX HEAD (Swing bearing to undercarriage)	
	07-004160		Except RP 120 (3/4"-10 x 6-1/2", Grade 8)	18
	07-004162		For model RP 120 (3/4"-10 x 6", Grade 8)	18
103	07-061022		WASHER, FLAT (Hardened, 3/4" SAE)	49
104			CAP SCREW, HEX HEAD (Swing bearing to superstructure)	
	07-004158		(3/4"-10 x 4-1/2", Grade 8)	20
	07-004162		(3/4"-10 x 6", Grade 8)	11
105	2093349		SPACER	11
106	See index	D02. - -	SWIVEL, HYDRAULIC	1
107	2067559		ADAPTER, HYDRAULIC TO ELECTRICAL SWIVEL	1
108	03-438500		SWIVEL ASSEMBLY, ELECTRICAL (6 circuit)	1
	03-038200	E04.02	SWIVEL ASSEMBLY, ELECTRICAL (4 circuit)	
			(Older version, no longer available. Use 03-438500)	1
109	2070746		LOCK, ELECTRICAL SWIVEL (some earlier units)	1
	11-007006		ROD, THREADED (1/2"-13 x 18" long) (on later units)	1
110	07-040018		NUT, HEX (1/2"-13, Grade 5)	1
111	07-065018		WASHER, HELICAL LOCK (1/2")	1
112	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	4
113	07-065018		WASHER, HELICAL LOCK (1/2")	4
114	03-472100		STRAP, GROUNDING (option)	1
115	07-058400		NUT, LUG (1/2"-13, Grade 8)	1
116	3516830	C12.01	SELECTOR VALVE ASSEMBLY (Steer/ Axle extend)	1
117	10-042400		KNOB, BALL (Plastic)	1
118	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	8
119	07-062016		WASHER, FLAT (3/8")	16
120	See plate . .	C12.02	VALVE ASSEMBLY, DRIVE (2 wheel drive)	1
	3516820	C12.03	VALVE ASSEMBLY, DRIVE (2 wheel, 2 speed drive)	1
121	01-011400		VALVE, CARTRIDGE RELIEF	1

TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 4 OF 5)			
PLATE NO.	B01.12	**SIMON AERIALS INC.**	REV. 29 JUL., 1994	PART NO.



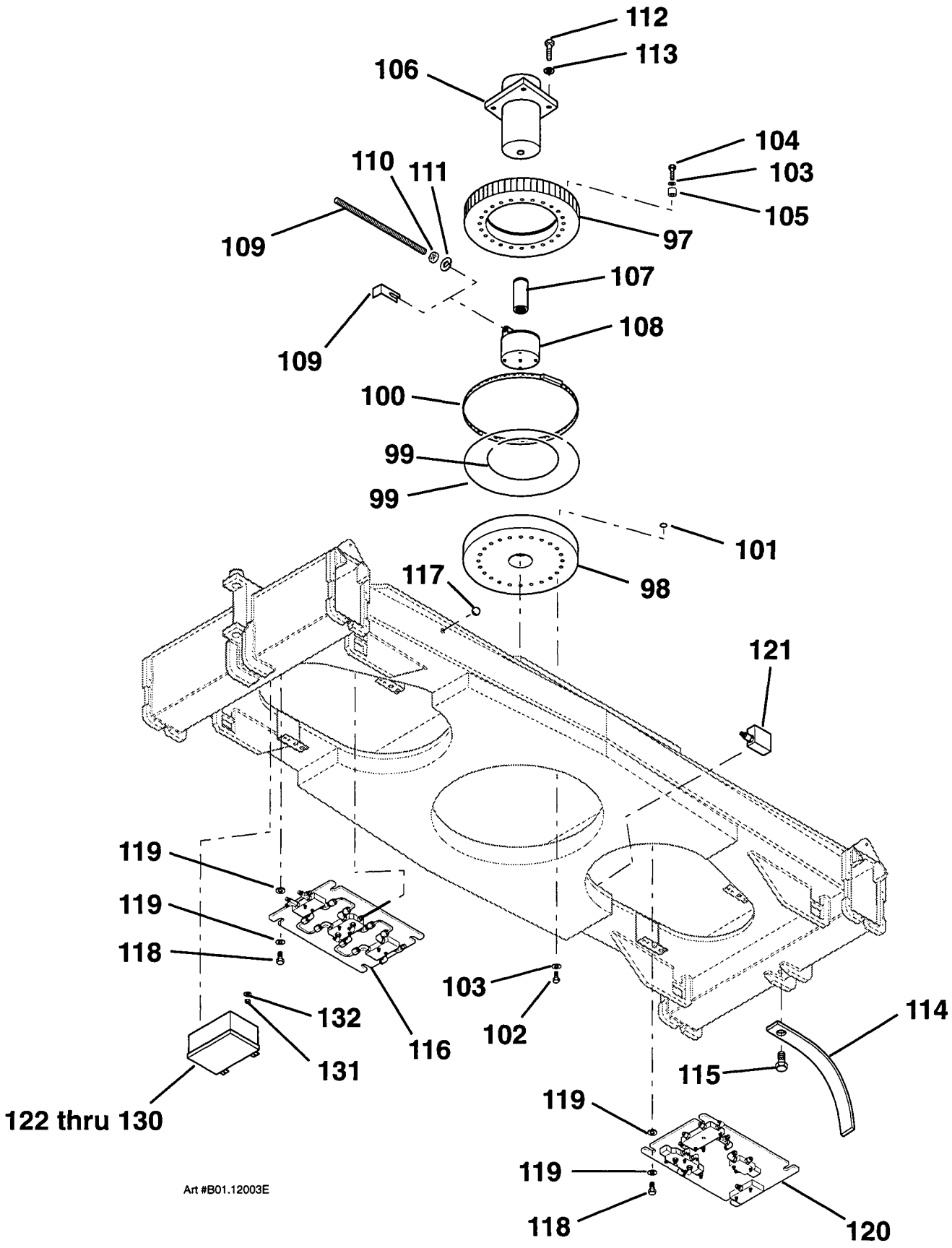
TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 4 OF 5)		
SIMON AERIALS INC. REV. 29 JUL., 1994		PART NO.	PLATE NO. B01.12

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
122	3520350		JUNCTION BOX ASSEMBLY, LIMIT SWITCH	1
123	2161190		BOX, JUNCTION (8" x 6" x 3-1/2") (203 x 152 x 89 mm)	1
124	2161200		SUBPLATE	1
125	03-066200		BLOCK, TERMINAL (25 Amp, for 12 Ga. wire)	13
126	03-039100		BLOCK, TERMINAL (Grounding, for 12 Ga. wire)	3
127	03-066100		END PLATE, TERMINAL BLOCK	1
128	03-051700		RAIL, CARRIER	1
129	03-041000		GRIP, CORD (1/2", with .38" to .44" seal)	5
130	03-045500		GRIP, CORD (1/2", with .31" to .38" seal))	1
131	07-040015		NUT, HEX (5/16"-18, Grade 5)	4
132	07-065015		WASHER, HELICAL LOCK (5/16")	4
133	3520530		HOSE KIT, 2WD UNDERCARRIAGE	1
134	03-085700		CABLE, ELECTRICAL (SJO, 4 conductor, #16 AWG) (Bulk item. 54 Ft [16.5 M] required this application)	A.R.
135	03-088900		CABLE, ELECTRICAL (8 conductor, #16 AWG) (Bulk item. 26 Ft [7.9 M] required this application)	A.R.
136	03-064700		TIE, CABLE (14-1/2" [37 cm] long)	8
137	10-113000		PROTECTOR, HOSE (Rubber, 8" x 12" x 1/8")	4
138	2054670		CLAMP, HOSE (2 hole, #4)	2
139	10-060800		CLAMP (1/2")	34
			Items 140 through 146 are used only on versions with the **two speed drive** option:	
140			VALVE, SOLENOID (High/ Low Drive) (with **optional two speed drive** only)	
	01-037100		3-way	1
	01-230400		4-way	1
141	06-003800		90° ELBOW, MALE 37° TO NPT (6 CTX-S)	2
142	06-000700		CONNECTOR, MALE (6 FTX-S)	1
143	06-054500		RUN TEE, 37° SWIVEL NUT (6 R6X-S)	A.R.
144	07-003010		CAP SCREW, HEX HEAD (1/4"-20 x 2-1/4", Grade 5)	2
145	07-062014		WASHER, FLAT (1/4")	6
146	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	2

TITLE: UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 5 OF 5)

PLATE NO. B01.12 | **SIMON AERIALS INC.** REV. 29 JUL., 1994 | PART NO.

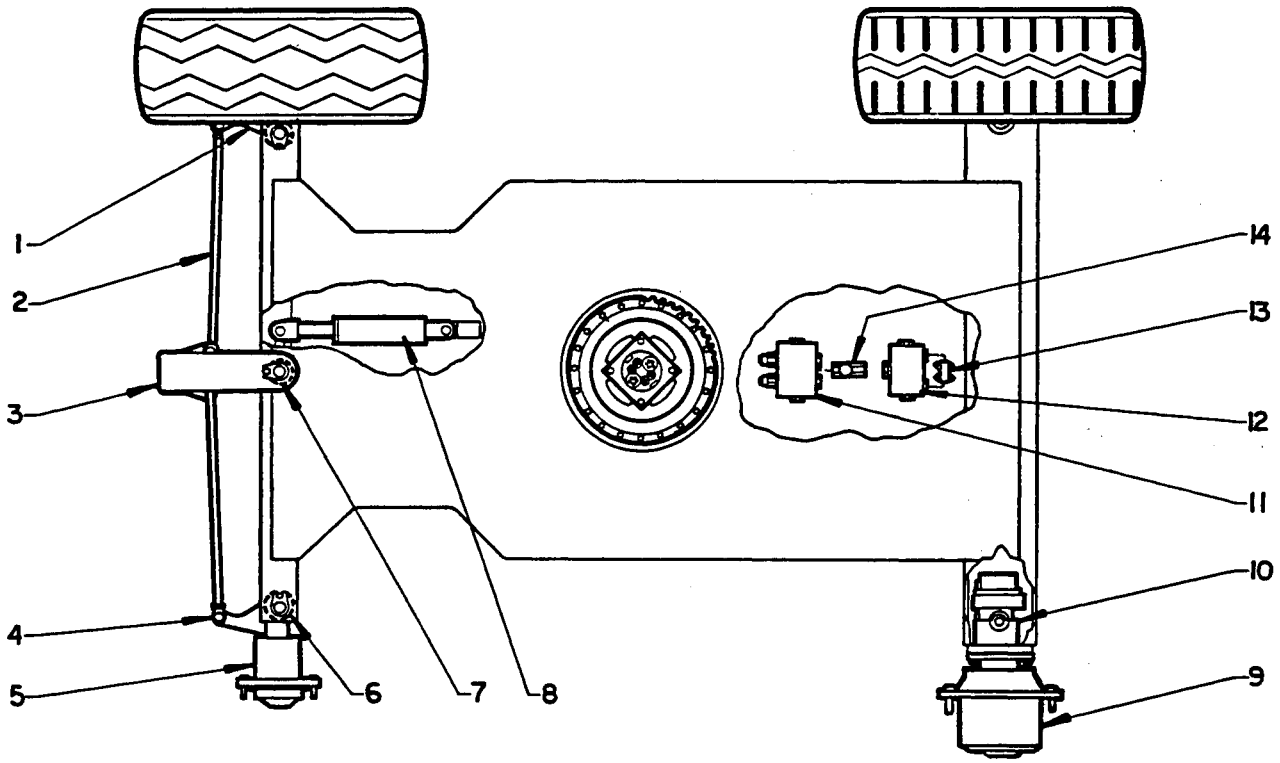


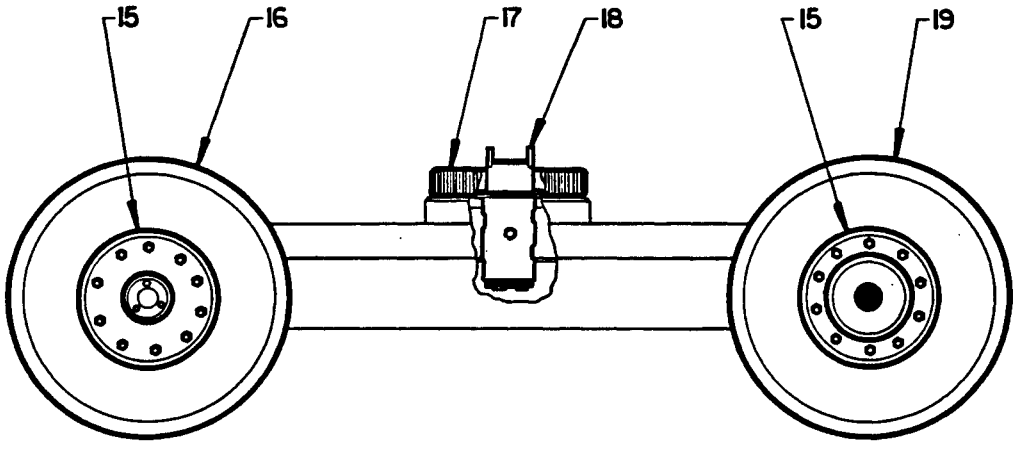
TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 5 OF 5)		
SIMON AERIALS INC.	REV. 29 JUL., 1994	PART NO.	PLATE NO. B01.12

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SEA-206184-7	C1.5	R.H. SPINDLE ASSEMBLY	1
2	SCA-205108-6		TIE ROD	2
3	SDW-202429-5		CENTER STEER ARM	1
4	08-007100		TIE ROD END	4
5	SEA-206183-4	C1.6	L.H. SPINDLE ASSEMBLY	1
6	08-014100		THRUST WASHER	2
7	08-002000		FLANGE BUSHING	1
8	SEE INDEX	D1	STEER CYLINDER	1
9	SEE INDEX	F1	TORQUE HUB	2
10	SEE INDEX	D3	DRIVE MOTOR/BRAKE	2
11	01-013100		MOTION CONTROL VALVE	1
12	01-018300		FLOW DIVIDER/COMBINER	1
13	01-034800		GATE VALVE	1
14	01-000500		NEEDLE VALVE	1
15	02-008400		RIM	4
16	02-001200		STEER TIRE	2
17	08-009900		SWING BEARING	1
18	SEE INDEX	D2	HYDRAULIC SWIVEL	1
19	02-008300		DRIVE TIRE	2

DESCRIPTION	PART NO.
UNDERCARRIAGE ASSEMBLY	CAA-209802-7





NOTE: SEE PAGE B1.18 FOR 4WD COMPONENTS

1185/1085

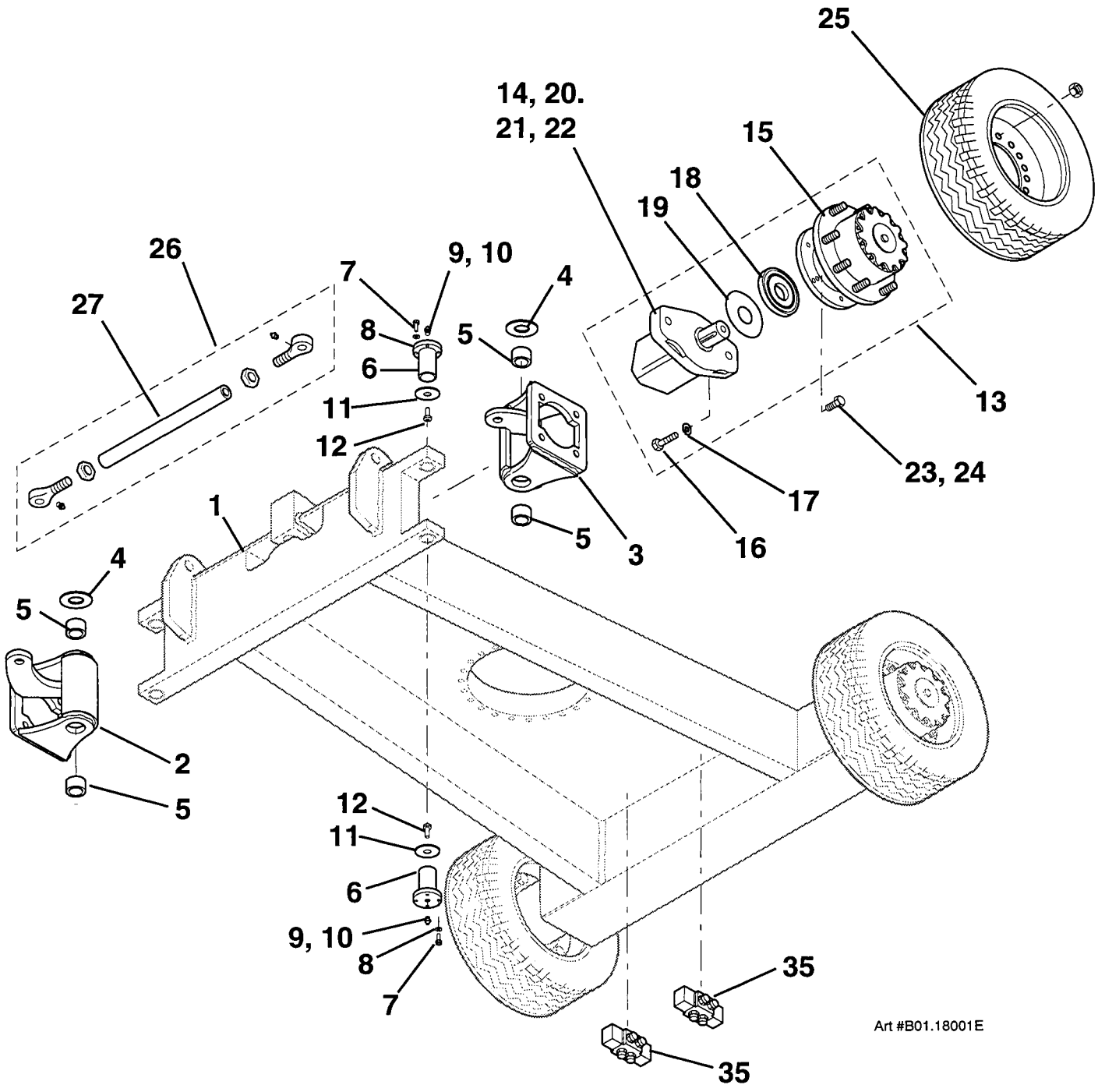
DESCRIPTION	PART NO.
UNDERCARRIAGE ASSEMBLY	CAA-209802-7

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			This plate identifies items found only on MP's with the **"Two wheel drive/ Four wheel drive" option**. It contains only those items that are used **in addition to** or **in place of** items shown on the "Two wheel drive" Undercarriage parts plate. For items used with the **"Full time four wheel drive" option**, see plate B01.27.	
1			UNDERCARRIAGE WELDMENT	
			(For four-wheel drive. Replaces part shown on 2WD plate.)	1
	207 0913		For model MP 40	
	219 0900		For model MPH 42, MP 50	
	205 4120		For model MP 60, MP 70	
	205 9543		For model MP 60Z, MPH 60, MP 70	
	230 6860		For model MP 80	
2			SPINDLE ASSEMBLY, FRONT DRIVE (Right hand)	
			(For four-wheel drive. Replaces part shown on 2WD plate.)	1
	202 4493		For model MP 40	
	202 2631		For all except MP 40	
3			SPINDLE ASSEMBLY, FRONT DRIVE (Left hand)	
			(For four-wheel drive. Replaces part shown on 2WD plate.)	1
	202 4507		For model MP 40	
	202 2644		For all except MP 40	
4	08-004200		WASHER, THRUST (2-1/32" I.D., 3-5/8" O.D.)	
			(For four-wheel drive. Replaces part shown on 2WD plate.)	4
5	201 0735		BEARING, SLEEVE (2-3/8" O.D. x 1-3/4" long)	4
6	234 0700		PIN, STEER (replaces earlier pin 201 4405)	
			(For four-wheel drive. Replaces part shown on 2WD plate.)	4
7	07-008046		CAP SCREW, SOCKET HEAD (3/8"-16 x 1-1/4", Grade 8)	16
8	07-065016		WASHER, HELICAL LOCK (3/8")	16
9	08-051300		FITTING, GREASE (1/8", 90°)	4
10	08-066300		CAP, GREASE FITTING (White plastic)	4
11	214 2180		RETAINER, STEER SPINDLE BUSHING	2
12	07-017083		CAP SCREW, BUTTON HEAD (1/2"-13 x 3/4", Grade 5)	2
13			DRIVE HUB ASSEMBLY (steer wheels)	2
14	See index	D03.--	MOTOR, HYDRAULIC (without brake)	1
15	See index	F01.--	HUB, TORQUE	1
16	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	2
17	07-065018		WASHER, HELICAL LOCK (1/2")	2
18	01-030900		SEAL (used with torque hub having cast housing)	1
19	217 6980		SPACER (used with torque hub having cast housing)	1

TITLE TWO WHEEL/ FOUR-WHEEL DRIVE OPTION, MP (PLATE 1 OF 2)

PLATE NO.			PART NO.
B01.18	**SIMON AERIALS INC.**	REV. 11 JUN, 1996	



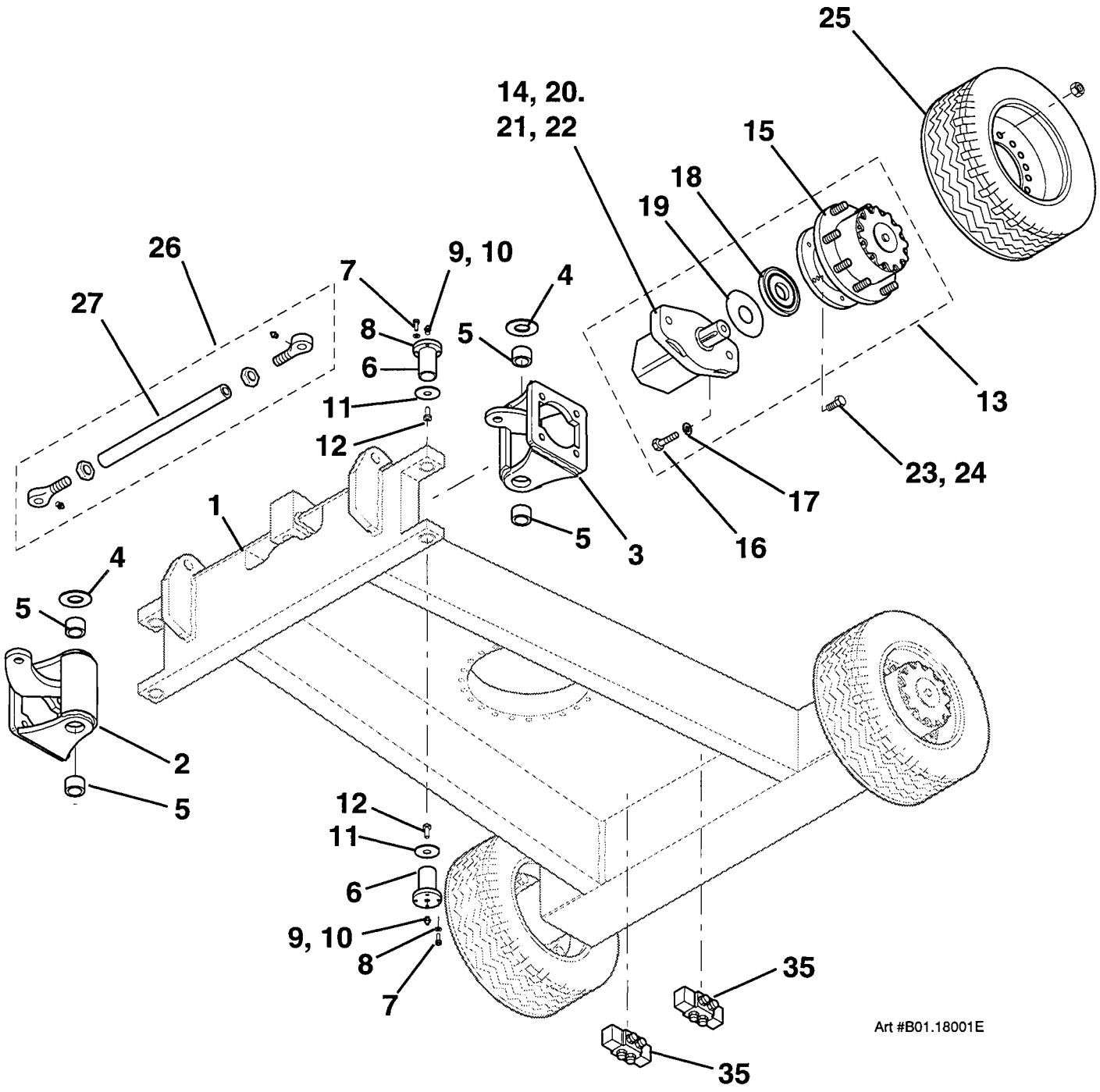
TITLE	TWO WHEEL/ FOUR-WHEEL DRIVE OPTION, MP (PLATE 1 OF 2)		
SIMON AERIALS INC.	REV. 11 JUN, 1996	PART NO.	PLATE NO. B01.18

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
20	06-047400		45° ELBOW, "O"-RING TO 37° (12 V50X-S)	2
21	06-045400		90° ELBOW, "O"-RING TO 37° (12 C50X-S)	2
22	06-044400		90° ELBOW, "O"-RING TO 37° (4-6 C50X-S)	2
23			CAP SCREW, HEX HEAD	
	07-004087		1/2"-13 x 1-1/2", Grade 8 (for 6-bolt mount torque hub)	12
	07-004128		5/8"-11 x 1-3/4", Grade 8 (for 8-bolt mount torque hub)	16
24	07-065021		WASHER, HELICAL LOCK (5/8") (for 8-bolt torque hub)	16
25			TIRE AND WHEEL ASSEMBLY, DRIVE (refer to **drive wheel** shown on 2WD plate.)	4
26	351 1990		TIE ROD ASSEMBLY (for Model MP 40, MPH 42, MP 50)	2
27	212 3230		TIE ROD (30.12" [76.5 cm] long)	1
26	351 2000		TIE ROD ASSEMBLY (for Model MP 60)	2
27	212 3240		TIE ROD (29.19" [74 cm] long)	1
26	351 5790		TIE ROD ASSEMBLY (for Model MP 60Z, MPH 60, MP 70, MP 80)	2
27	214 3670		TIE ROD (29.19" [74 cm] long, reinforced)	1
28	208 9148		CLAMP, DRIVE HOSE	10
29	07-050016		NUT, TOP LOCK (3/8"-16, Grade 5)	8
30	07-062016		WASHER, FLAT (3/8")	8
31	07-003031		CAP SCREW, HEX HEAD (5/16"-18 x 2-1/2", Grade 5)	12
32	07-050015		NUT, HEX STOP (5/16"-18, Grade 5)	12
33	07-062015		WASHER, FLAT (5/16")	24
34	10-150900		SLEEVE, COIL (Plastic, 1" dia.) (Bulk item, order as needed. 8 ft [2.44 M] required this application)	A.R.
35	01-230500		VALVE, SELECTOR (replaces earlier valve 01-018100) (For four-wheel drive. Replaces part shown on 2WD plate.)	2
			Note: The flow control valve (needle valve) shown on 2WD Undercarriage page plate is not used with 2WD/ 4WD option.	

TITLE TWO WHEEL/ FOUR-WHEEL DRIVE OPTION, MP (PLATE 2 OF 2)

PLATE NO.		PART NO.
B01.18	**SIMON AERIALS INC.** REV. 11 JUN, 1996	



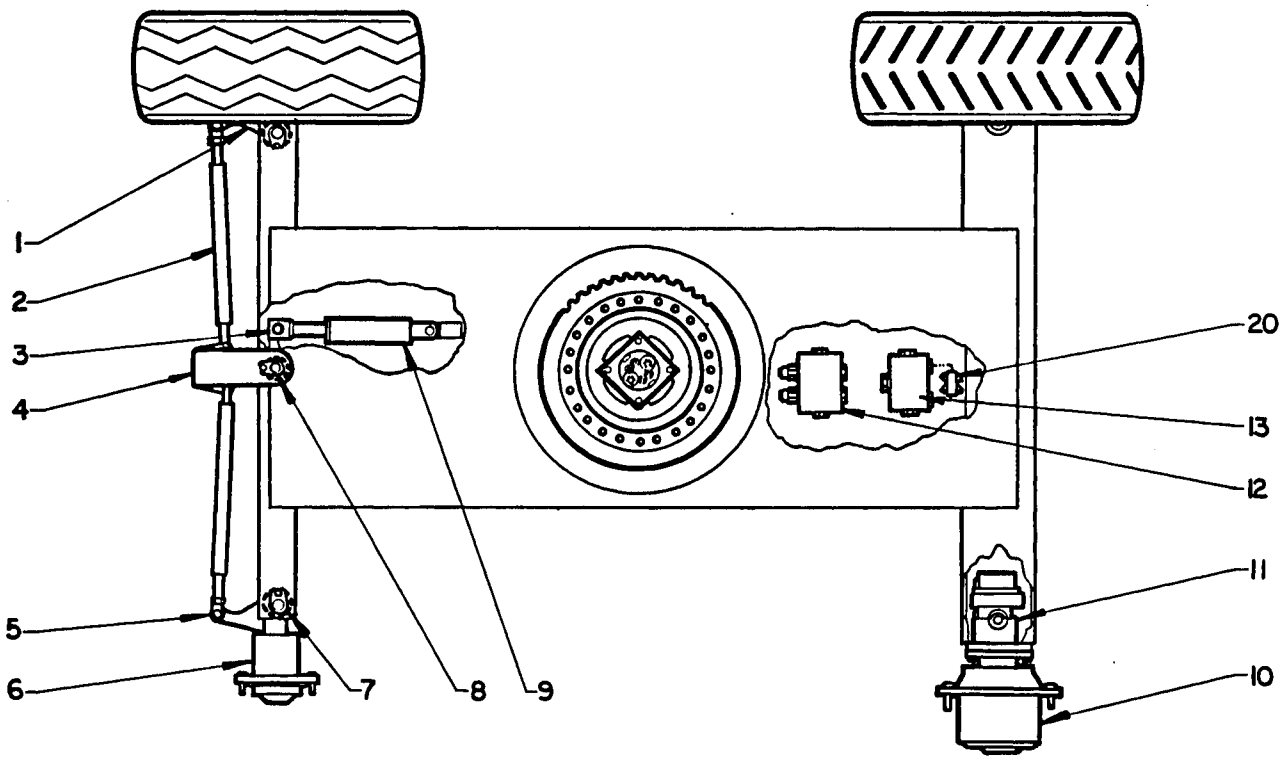
TITLE TWO WHEEL/ FOUR-WHEEL DRIVE OPTION, MP (PLATE 2 OF 2)

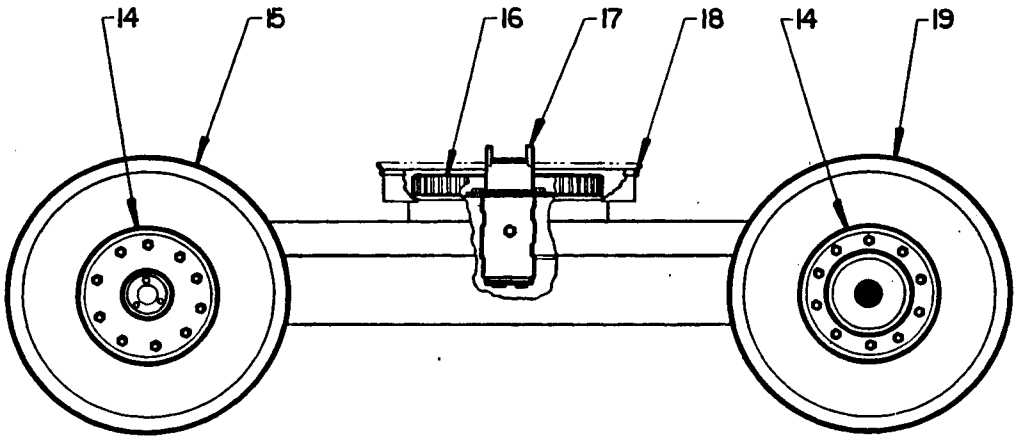
SIMON AERIALS INC. REV. 11 JUN, 1996 | PART NO. | PLATE NO. B01.18

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	CAA-208476-5	C1.11	R.H. SPINDLE ASSEMBLY	1
2	SBW-208948-1		TIE ROD	2
3			ROD CLEVIS, STEER CYLINDER	1
4	SDW-207390-5		CENTER STEER ARM	1
5	08-007100		TIE ROD END	4
6	CAA-208477-2	C1.12	L.H. SPINDLE ASSEMBLY	1
7	08-004200		THRUST WASHER	2
8	08-002000		BUSHING	2
9	04-008900	D1.1	STEER CYLINDER	1
10	02-009000	F1	TORQUE HUB	2
11	01-004800	D3.2	DRIVE MOTOR/BRAKE	2
12	01-013100		MOTION CONTROL VALVE	1
13	01-018300		FLOW DIVIDER/COMBINER	1
14	SDW-209145-5		RIM	4
15	02-003700		STEER TIRE - 15 X 22.5	2
16	08-015000		SWING BEARING	1
17	01-008700	D2.1	HYDRAULIC SWIVEL	1
18	10-005500		LIP SEAL, SWING BEARING	A.R.
19	02-003600		DRIVE TIRE - 15 X 22.5	2
20	01-034800		GATE VALVE	1

DESCRIPTION	PART NO.
UNDERCARRIAGE ASSEMBLY	CAA-209816-4





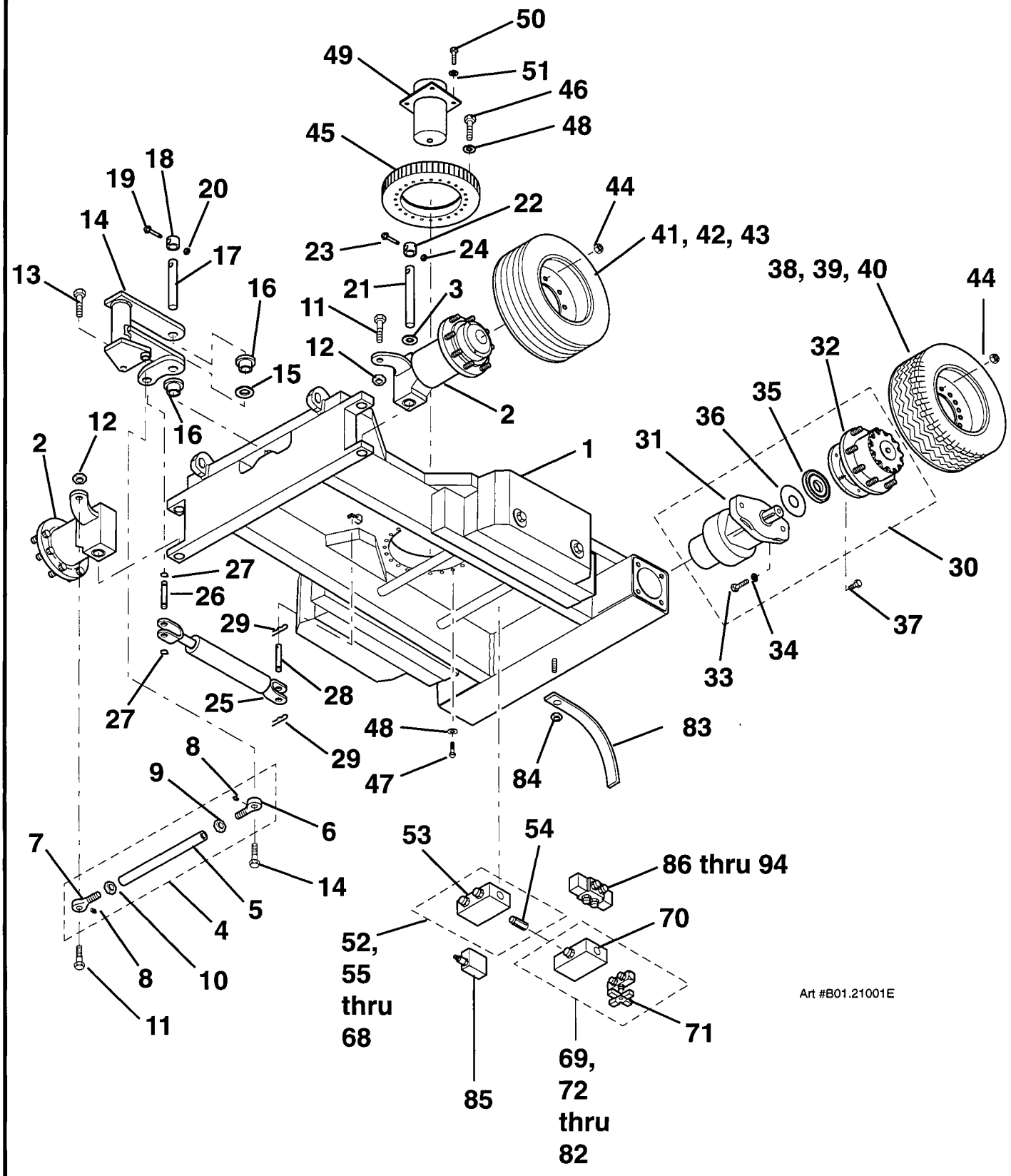
0186/1185

DESCRIPTION	PART NO.
UNDERCARRAIGE ASSEMBLY	CAA-209816-4

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			UNDERCARRIAGE WELDMENT (for two-wheel drive)	1
2	See index	C01. - -	SPINDLE ASSEMBLY (Right hand) (for two-wheel drive)	1
	See index	C01. - -	SPINDLE ASSEMBLY (Left hand) (for two-wheel drive)	1
3	08-014100		WASHER, THRUST (1-1/2" I.D., 3-1/2" O.D.)	2
4	351 0483		TIE ROD ASSEMBLY	2
5	210 5110		TIE ROD	1
6	08-007100		END, TIE ROD (R.H. thread)	1
7	08-060600		END, TIE ROD (L.H. thread)	1
8	08-053100		FITTING, GREASE (1/4"-28, Straight)	2
9	07-047122		NUT, JAM (3/4"-16, R.H. thread, Grade 2)	1
10	07-047222		NUT, JAM (3/4"-16, L.H. thread, Grade 2)	1
11	07-004650		CAP SCREW, HEX HEAD (3/4"-16 x 2-1/4", Grade 8)	2
12	07-047122		NUT, HEX JAM (3/4"-16, Grade 2)	2
13	07-004651		CAP SCREW, HEX HEAD (3/4"-16 x 2-1/2", Grade 8)	2
14			ARM, CENTER STEER (without tow package)	1
	200 4208		Steer arm pivot to cylinder dimension is 6.5" (165 mm).	1
	230 2530		Pivot to cylinder dim. 6.84" (174 mm) (later 4WD versions).	1
	210 3610		ARM, CENTER STEER (with tow package)	1
15	200 4277		SPACER, CENTER STEER ARM (7/8" [22 mm] thick)	1
16	08-002000		BEARING, FLANGED (1-1/2" I.D.,1-3/4"-2" O.D.,1-1/2" dia.)	2
17	218 6910		PIN, STEER ARM (1-1/2" dia. x 11-3/4" long)	1
18	214 4330		COLLAR, LOCK (1-1/2")	1
19	07-003094		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/4", Grade 5)	1
20	07-058400		NUT, LUG (1/2"-13, Grade 8)	1
21	210 5980		PIN, STEER ARM (1-1/2" dia. x 11-3/4" long)	2
22	210 6320		COLLAR, LOCK (1-1/2")	2
23	07-003094		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/4", Grade 5)	2
24	07-058400		NUT, LUG (1/2"-13, Grade 8)	2
25	See index	D01. - -	CYLINDER, STEER	1
26	217 1250		PIN, STEER CYLINDER (1" dia. x 3-7/16") (rod end)	1
27	08-040600		RING, RETAINING (1")	2
28	04-003401		PIN, STEER CYLINDER (1" dia. x 3-1/2" long) (base end)	1
29	04-003404		CLIP, HAIR PIN	2
30			DRIVE HUB ASSEMBLY	2
31	See index	D03. - -	MOTOR, HYDRAULIC (with brake)	1
32	See index	F01. - -	HUB, TORQUE	1
33	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	2
34	07-065018		WASHER, HELICAL LOCK (1/2")	2
35	01-030900		SEAL, MOTOR TO TORQUE HUB	A.R.
36	217 6980		SPACER, MOTOR TO TORQUE HUB	A.R.
37	07-004087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 8)	12
			For 4WD components, see plate B01.18 or B01.27.	

TITLE UNDERCARRIAGE, MPH 60, MP60Z, MP70 & MP 80 (2WD) (PLATE 1 OF 3)



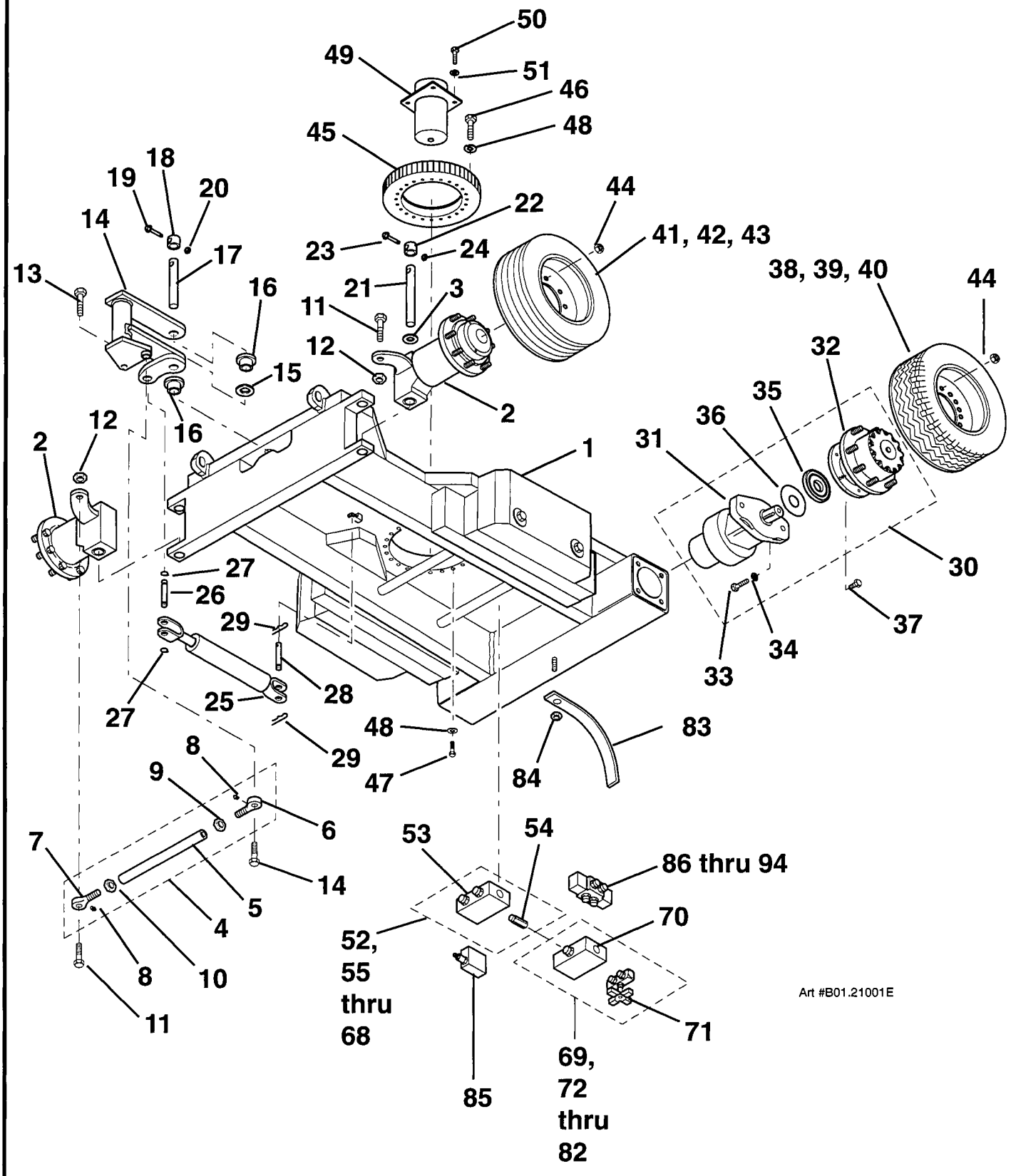
TITLE UNDERCARRIAGE, MPH 60, MP60Z, MP70 & MP 80 (2WD) (PLATE 1 OF 3)

SIMON AERIALS INC. REV. 02 FEB., 1995	PART NO.	PLATE NO. B01.21

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Note: When replacing tires, or tire and wheel assemblies, it is important that left and right sides of a single axle match in brand and type. Refer to tire descriptions below:	
38	351 5620		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2
	351 5710		TIRE AND WHEEL ASSEMBLY, DRIVE (Foam filled)	2
39	02-024700		TIRE (15-19.5 **"Jumbo Super All Grip"** Tubeless)	1
40	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
38	350 3104		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2
	350 8460		TIRE AND WHEEL ASSEMBLY, DRIVE (Foam filled)	2
39	02-001300		TIRE (15-19.5 **"Custom Xtra Grip"** Tubeless)	1
40	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
38	354 0830		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2
	354 0840		TIRE AND WHEEL ASSEMBLY, DRIVE (Foam filled)	2
39	02-047800		TIRE (15-19.5 **"Loader Lug"** 14 Ply Tubeless)	1
40	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
41	351 5630		TIRE AND WHEEL ASSEMBLY, STEER (Liquid filled)	2
	351 5720		TIRE AND WHEEL ASSEMBLY, STEER (Foam filled)	2
42	02-024800		TIRE (15-19.5 **"Jumbo Jet Cargo"** Tubeless)	1
43	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
41	351 0016		TIRE AND WHEEL ASSEMBLY, STEER (Liquid filled)	2
	350 8534		TIRE AND WHEEL ASSEMBLY, STEER (Foam filled)	2
42	02-001200		TIRE (15-19.5 **"Custom Hi-Miler"** Tubeless)	1
43	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
44	07-058123		NUT, FLANGED (Self locking) (3/4"-16, Grade 5)	40
45	08-057100		SWING BEARING	1
46	07-004655		CAP SCREW, HEX HEAD (3/4"-16 x 3-1/4", Grade 8)	18
47	07-004152		CAP SCREW, HEX HEAD (3/4"-16 x 2-3/4", Grade 8)	23
48	07-061022		WASHER, FLAT (3/4" SAE)	18
49	See index	D02.--	SWIVEL, HYDRAULIC	1
50	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	4
51	07-065018		WASHER, HELICAL LOCK (1/2")	4
52	351 8230		VALVE ASSEMBLY, MOTION CONTROL	1
53	01-013100		VALVE, MOTION CONTROL (10:1 pilot ratio)	1
54	01-018900		VALVE, FLOW CONTROL (Needle valve) (#6 SAE Ports)	1
55	06-021300		TEE, UNION (12 JTX-S)	1
56	06-039800		CONNECTOR, STRAIGHT THREAD (6 F50X-S)	1

TITLE UNDERCARRIAGE, MPH 60, MP60Z, MP70 & MP 80 (2WD) (PLATE 2 OF 3)



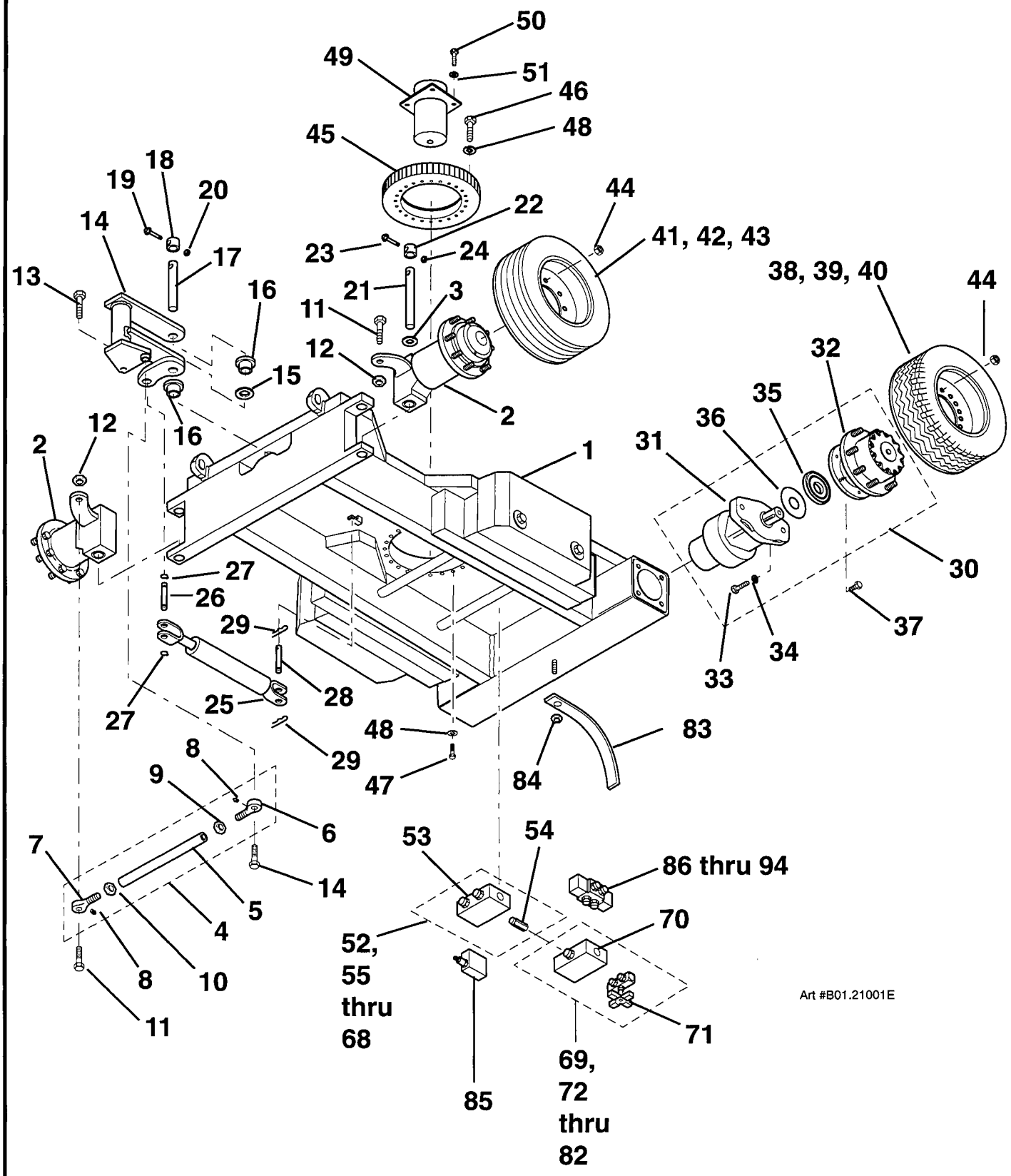
TITLE UNDERCARRIAGE, MPH 60, MP60Z, MP70 & MP 80 (2WD) (PLATE 2 OF 3)

SIMON AERIALS INC. REV. 02 FEB., 1995	PART NO.	PLATE NO. B01.21

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			VALVE ASSEMBLY, MOTION CONTROL (continued)	1
57	06-041100		CONNECTOR, STRAIGHT THREAD (12-16 F50X-S)	2
58	06-044500		ELBOW, STRAIGHT THREAD (6-4C50X-S)	1
59	06-045600		ELBOW, STRAIGHT THREAD (12-16 C50X-S)	2
60	06-050000		TEE, STRAIGHT THREAD (6 S50X-S)	1
61	350 7665		TUBE ASSEMBLY	1
62	06-057800		NUT, TUBE (12 BTX-S)	2
63	06-059300		SLEEVE (12TX-S)	2
64			TUBE	1
65	350 7867		TUBE ASSEMBLY	1
66	06-057500		NUT, TUBE (6 BTX-S)	2
67	06-059000		SLEEVE (6TX-S)	2
68			TUBE	1
69	351 8250		VALVE ASSEMBLY, FLOW DIVIDER	1
70	01-018300		VALVE, FLOW DIVIDER	1
71	01-034800		VALVE, GLOBE (1/4" NPT Female thread, both ends)	1
72	06-002000		CONNECTOR, MALE (12-16 FTX-S)	1
73	06-003800		ELBOW, MALE (6 CTX-S)	2
74	06-012300		RUN TEE, MALE (12 RTX-S)	2
75	06-051800		ELBOW, SWIVEL NUT (12 C6X-S)	1
76	06-054800		RUN TEE, SWIVEL NUT (12 R6X-S)	2
77	06-057800		NUT, TUBE (12 BTX-S)	2
78	06-060800		REDUCER, TUBE END (12-6 TRTX-S)	2
79	350 7654		TUBE ASSEMBLY	2
80	06-057500		NUT, TUBE (6 BTX-S)	2
81	06-059000		SLEEVE (6TX-S)	2
82			TUBE	1
83	03-472100		STRAP, GROUNDING (optional)	1
84	07-058400		NUT, HEX (1/2") (for grounding strap)	1
85	01-011400		VALVE, CARTRIDGE RELIEF	1
			Items below used on two-wheel drive units with two-speed drive option:	
86	351 8240		VALVE ASSEMBLY, SELECTOR	1
87	01-062000		VALVE, HI/ LOW SPEED DRIVE (Pilot operated)	1
88	01-062001		SEAL KIT, HI/ LOW SPEED DRIVE VALVE	1
89	06-040800		CONNECTOR, STRAIGHT THREAD (12 F50X-S)	3
90	06-044500		ELBOW, STRAIGHT THREAD (6-4 C50X-S)	1
91	06-045400		ELBOW, STRAIGHT THREAD (12 C50X-S)	3
92	06-056300		TEE, SWIVEL (12S6X-S)	1
93	06-057800		NUT, TUBE (12 BTX-S)	1
94	06-060800		REDUCER, TUBE END (12-6 TRTX-S)	1

TITLE UNDERCARRIAGE, MPH 60, MP60Z, MP70 & MP 80 (2WD) (PLATE 3 OF 3)



TITLE UNDERCARRIAGE, MPH 60, MP60Z, MP70 & MP 80 (2WD) (PLATE 3 OF 3)

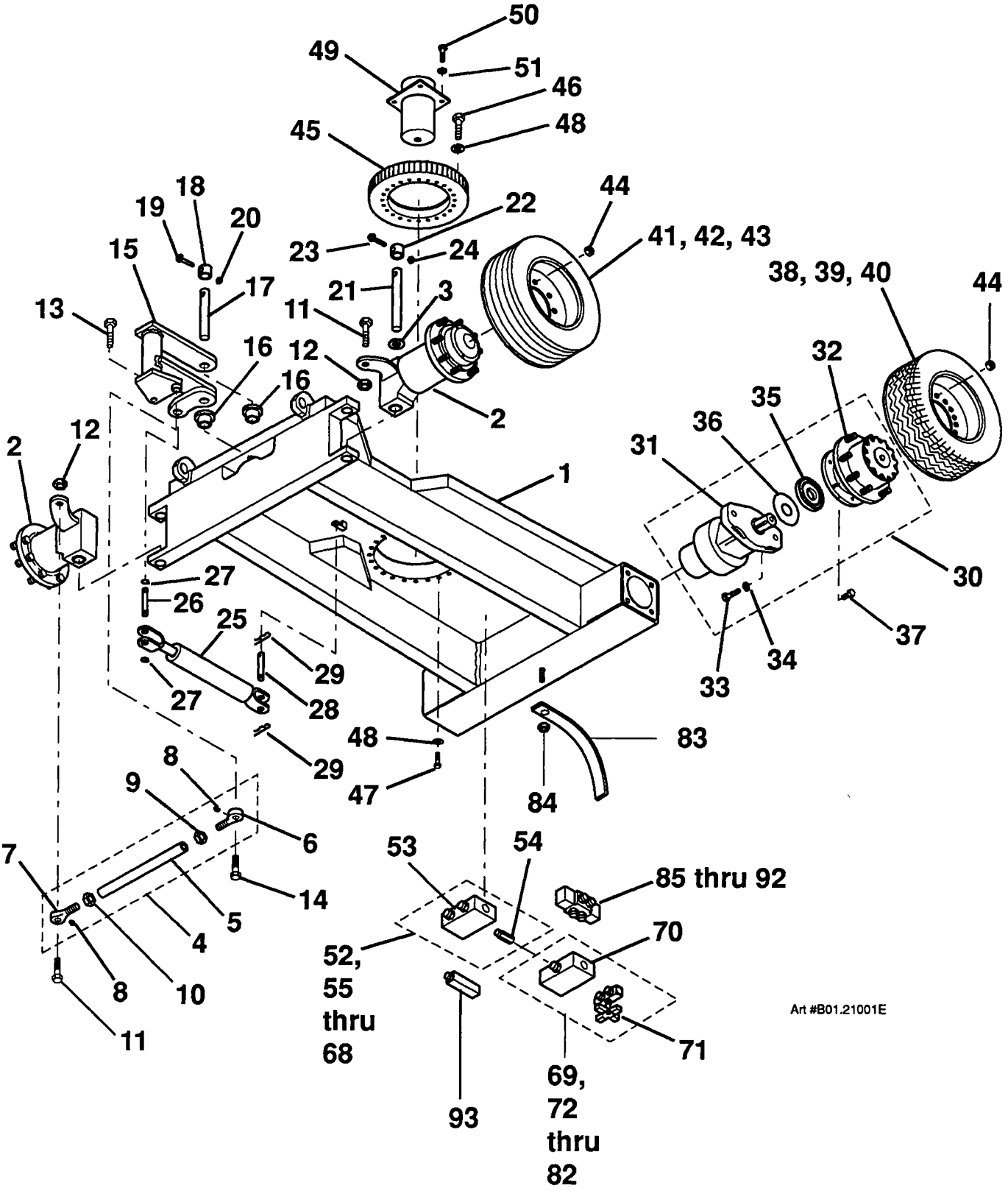
SIMON AERIALS INC. REV. 02 FEB., 1995	PART NO.	PLATE NO. B01.21

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Note: This assembly equipped with components which enable the use of water-glycol hydraulic fluid.	
1			UNDERCARRIAGE WELDMENT	1
2	3502495	C01.14	SPINDLE ASSEMBLY (Right hand)	1
	3503089	C01.15	SPINDLE ASSEMBLY (Left hand)	1
3	08-014100		WASHER, THRUST (1-1/2" i.d., 3-1/2" o.d.)	2
4	3510483		TIE ROD ASSEMBLY	2
5	2105110		TIE ROD	1
6	08-007100		END, TIE ROD (R.H. thread)	1
7	08-060600		END, TIE ROD (L.H. thread)	1
8	08-053100		FITTING, GREASE (1/4"-28, Straight)	2
9	07-047122		NUT, JAM (3/4"-16, R.H. thread, Grade 2)	1
10	07-047222		NUT, JAM (3/4"-16, L.H. thread, Grade 2)	1
11	07-004650		CAP SCREW, HEX HEAD (3/4"-16 x 2-1/4", Grade 8)	2
12	07-047122		NUT, HEX JAM (3/4"-16, Grade 2)	2
13	07-004651		CAP SCREW, HEX HEAD (3/4"-16 x 2-1/2", Grade 8)	2
14	2004208		ARM, CENTER STEER (with tow package)	
			(Also order part # 2103610. Welding required.)	1
15	2004277		SPACER, CENTER STEER ARM	1
16	08-002000		BEARING, FLANGED (1-1/2" i.d.,1-3/4"-2" o.d.,1-1/2" dia.)	2
17	2105980		PIN, STEER ARM (1-1/2" dia. x 11-3/4" long)	1
18	2144330		COLLAR, LOCK (1-1/2")	1
19	07-003094		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/4", Grade 5)	1
20	07-058400		NUT, LUG (1/2"-13, Grade 8)	1
21	2105980		PIN, STEER ARM (1-1/2" dia. x 11-3/4" long)	2
22	2106320		COLLAR, LOCK (1-1/2")	2
23	07-003094		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/4", Grade 5)	2
24	07-058400		NUT, LUG (1/2"-13, Grade 8)	2
25	04-033200	D01.09	CYLINDER, STEER	
			(can be used with water-glycol hydraulic fluid)	1
26	2171250		PIN, STEER CYLINDER (1" dia. x 3-7/16") (rod end)	1
27	08-040600		RING, RETAINING (1")	2
28	04-003401		PIN, STEER CYLINDER (1" dia. x 3-1/2" long) (base end)	1
29	04-003404		CLIP, HAIR PIN	2

TITLE UNDERCARRIAGE, MP60Z & MP 80 (SPECIAL) (PLATE 1 OF 3)

PLATE NO. B01.23 | **SIMON AERIALS INC.** REV. 06/24/91 | PART NO. 3509980



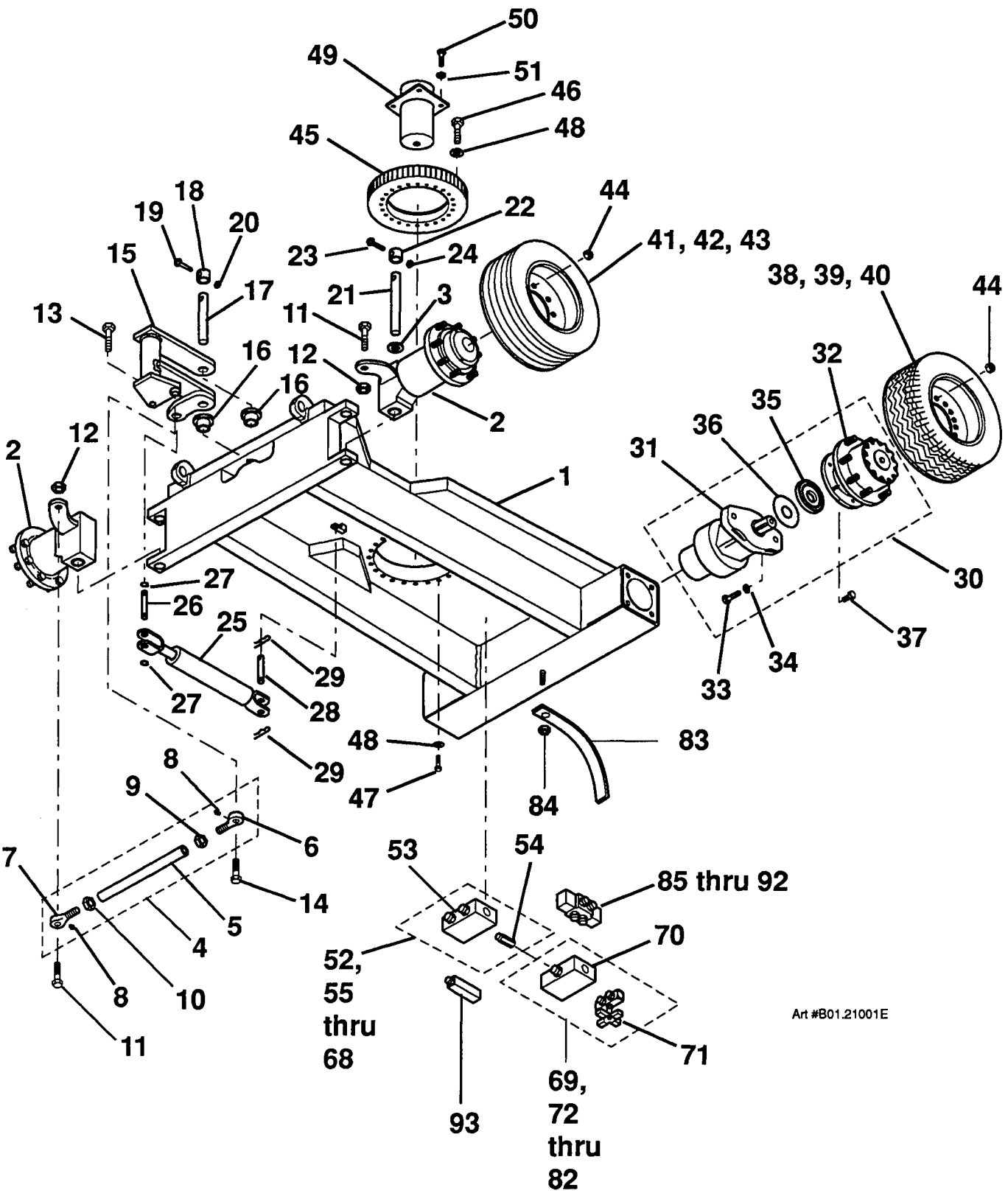
TITLE	UNDERCARRIAGE, MP60Z & MP 80 (SPECIAL) (PLATE 1 OF 3)		
SIMON AERIALS INC.	REV. 06/24/91	PART NO. 3509980	PLATE NO. B01.23

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
30			DRIVE HUB ASSEMBLY	2
31	01-004800	D03.11	MOTOR, HYDRAULIC (with brake) (can be used with water-glycol hydraulic fluid)	1
32	02--010500	F01.07	HUB, TORQUE (54:1)	1
33	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	2
34	07-065018		WASHER, HELICAL LOCK (1/2")	2
35	01-030900		SEAL, MOTOR TO TORQUE HUB	1
36	2176980		SPACER, MOTOR TO TORQUE HUB	1
37	07-004087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 8)	12
38	3515710		TIRE AND WHEEL ASSEMBLY, DRIVE (Foam filled)	2
39	02-024700		TIRE (15-19.5 **"Jumbo Super All Grip"** Tubeless)	1
40	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
41	3515720		TIRE AND WHEEL ASSEMBLY, STEER (Foam filled)	2
42	02-024800		TIRE (15-19.5 **"Jumbo Jet Cargo"** Tubeless)	1
43	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
44	07-058123		NUT, FLANGED (Self locking) (3/4"-16, Grade 5)	40
45	08-057100		SWING BEARING	1
46	07-004655		CAP SCREW, HEX HEAD (3/4"-16 x 3-1/4", Grade 8)	18
47	07-004152		CAP SCREW, HEX HEAD (3/4"-16 x 2-3/4", Grade 8)	23
48	07-061022		WASHER, FLAT (3/4" SAE)	18
49	01-201100	D02.03	SWIVEL, HYDRAULIC (can be used with water-glycol hydraulic fluid)	1
50	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	4
51	07-065018		WASHER, HELICAL LOCK (1/2")	4
52	3518230		VALVE ASSEMBLY, MOTION CONTROL	1
53	01-013100		VALVE, MOTION CONTROL (10:1 pilot ratio)	1
54	01-018900		VALVE, FLOW CONTROL (Needle valve) (#6 SAE Ports)	1
55	06-021300		TEE, UNION (12 JTX)	1
56	06-039800		CONNECTOR, STRAIGHT THREAD (6 F50X)	1
57	06-041100		CONNECTOR, STRAIGHT THREAD (12-16 F50X)	2
58	06-044500		ELBOW, STRAIGHT THREAD (6-4C50X)	1
59	06-045600		ELBOW, STRAIGHT THREAD (12-16 C50X)	2
60	06-050000		TEE, STRAIGHT THREAD (6 S50X)	1
61	3507665		TUBE ASSEMBLY	1
62	06-057800		NUT, TUBE (12 BTX)	2
63	06-059300		SLEEVE (12TX)	2
64			TUBE	1
65	3507867		TUBE ASSEMBLY	1
66	06-057500		NUT, TUBE (6 BTX)	2
67	06-059000		SLEEVE (6TX)	2
68			TUBE	1

TITLE UNDERCARRIAGE, MP60Z & MP 80 (SPECIAL) (PLATE 2 OF 3)

PLATE NO. B01.23 | **SIMON AERIALS INC.** REV. 06/24/91 | PART NO. 3509980



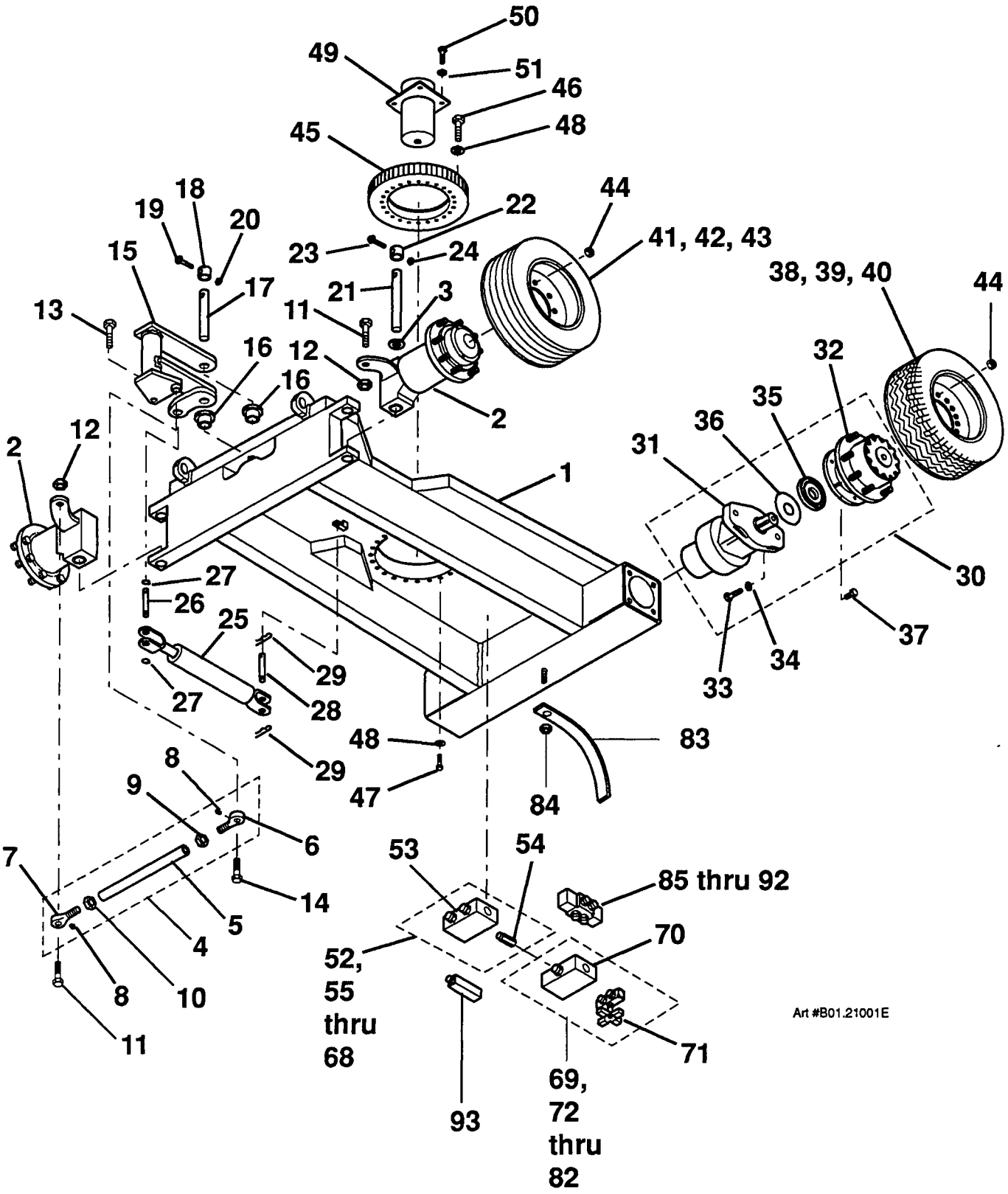
TITLE	UNDERCARRIAGE, MP60Z & MP 80 (SPECIAL) (PLATE 2 OF 3)		
SIMON AERIALS INC.	REV. 06/24/91	PART NO. 3509980	PLATE NO. B01.23

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
69	3518250		VALVE ASSEMBLY, FLOW DIVIDER	1
70	01-018300		VALVE, FLOW DIVIDER	1
71	01-034800		VALVE, GLOBE (1/4" NPT Female thread, both ends)	1
72	06-002000		CONNECTOR, MALE (12-16 FTX)	1
73	06-003800		ELBOW, MALE (6 CTX)	2
74	06-012300		RUN TEE, MALE (12 RTX)	2
75	06-051800		ELBOW, SWIVEL NUT (12 C6X)	1
76	06-054800		RUN TEE, SWIVEL NUT (12 R6X)	2
77	06-057800		NUT, TUBE (12 BTX)	2
78	06-060800		REDUCER, TUBE END (12-6 TRTX)	2
79	3507654		TUBE ASSEMBLY	2
80	06-057500		NUT, TUBE (6 BTX)	2
81	06-059000		SLEEVE (6TX)	2
82			TUBE	1
83	03-472100		STRAP, GROUNDING (optional)	1
84	07-058400		NUT, HEX (1/2") (for grounding strap)	1
85	3518240		VALVE ASSEMBLY, SELECTOR	1
86	01-062000		VALVE, HI/ LOW SPEED DRIVE (Pilot operated)	
			Note: Valve must be modified by addition of Seal Kit 01-062001 for use with water-glycol hydraulic fluid.	1
87	06-040800		CONNECTOR, STRAIGHT THREAD (12 F50X)	3
88	06-044500		ELBOW, STRAIGHT THREAD (6-4 C50X)	1
89	06-045400		ELBOW, STRAIGHT THREAD (12 C50X)	3
90	06-056300		TEE, SWIVEL (12S6X)	1
91	06-057800		NUT, TUBE (12 BTX)	1
92	06-060800		REDUCER, TUBE END (12-6 TRTX)	1
93	01-011400		VALVE, CARTRIDGE RELIEF	1

TITLE UNDERCARRIAGE, MP60Z & MP 80 (SPECIAL) (PLATE 3 OF 3)

PLATE NO. B01.23 | **SIMON AERIALS INC.** REV. 06/24/91 | PART NO. 3509980



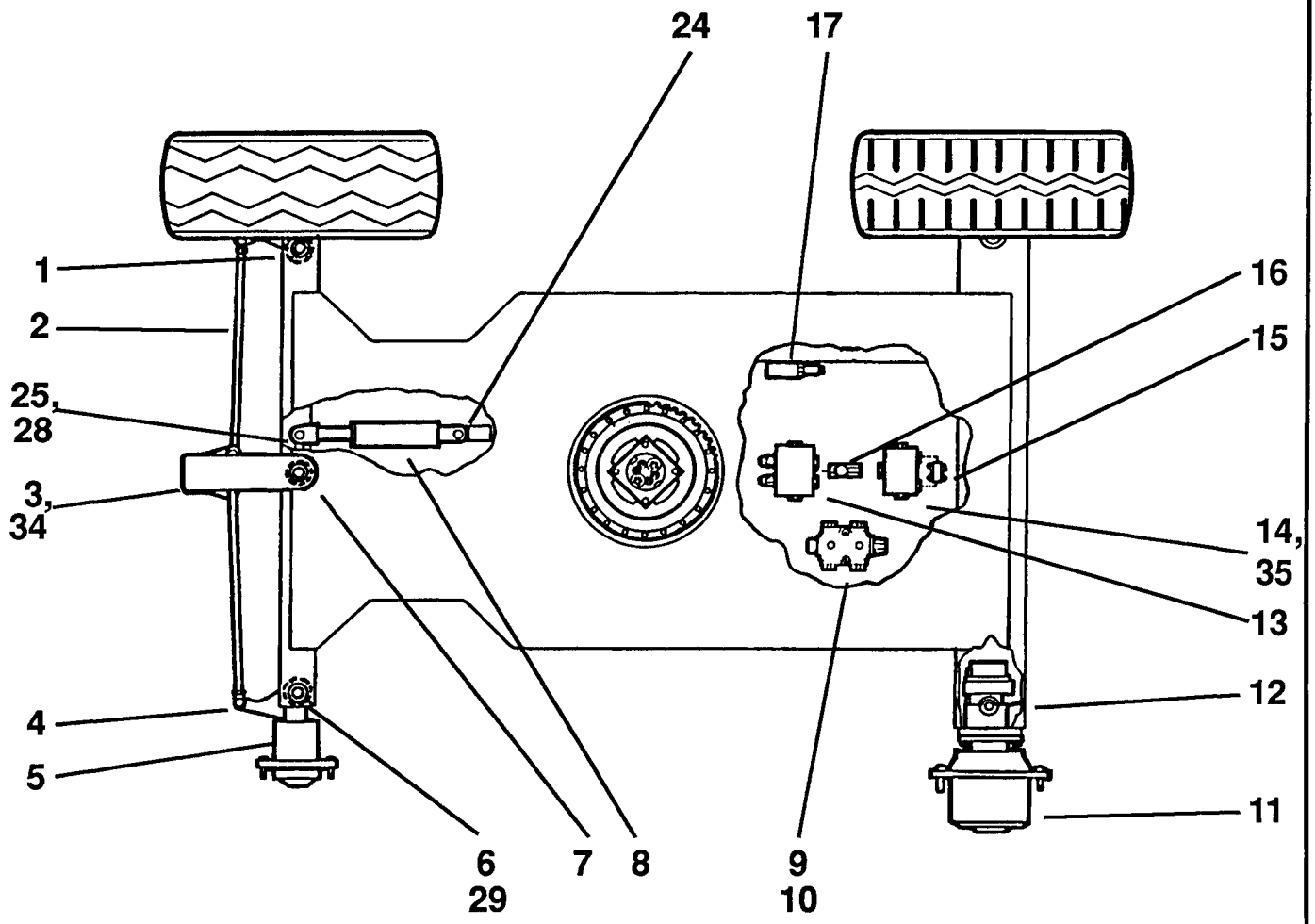
TITLE	UNDERCARRIAGE, MP60Z & MP 80 (SPECIAL) (PLATE 3 OF 3)		
SIMON AERIALS INC.	REV. 06/24/91	PART NO. 3509980	PLATE NO. B01.23

PARTS LIST

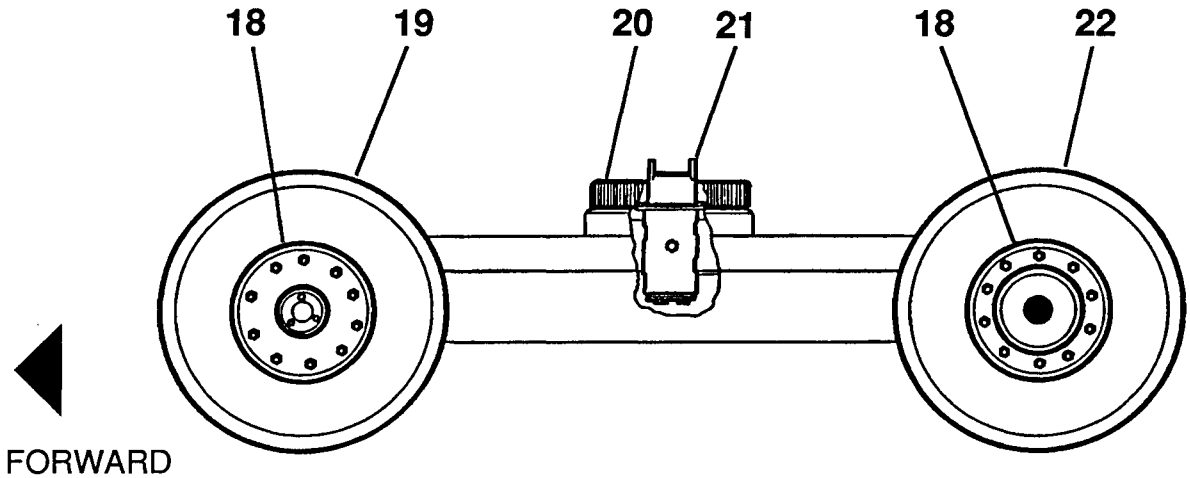
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	3502495	C01.14	SPINDLE ASSEMBLY, R.H.	1
2	2105110		TIE ROD (32-1/8" long)	2
3	2004208		ARM, CENTER STEER	1
4	08-007100		END, TIE ROD (3/4" bore)	1
4A	08-060600		END, TIE ROD (3/4" BORE)	1
4B	07-047122		NUT, HEX JAM (3/4"-16) (right hand thread)	1
4C	07-047222		NUT, HEX JAM (3/4"-16) (left hand thread)	1
5	3503089	C01.15	SPINDLE ASSEMBLY, L.H.	1
6	08-014100		THRUST WASHER (1-1/2" I.D. X 3-1/2" O.D.)	2
7	08-002000		BUSHING, FLANGE (1.5" I.D. X 1.75-2" O.D. X 1.5" long)	2
8	SEE INDEX	D01.--	CYLINDER, STEER (3.5" bore, 1.25" rod, 7.5" stroke)	1
9	01-062000		VALVE, DRIVE, HI/LOW SPEED (pilot operated, #12 ports)	1
10	01-062001		SEAL KIT (for drive valve)	1
11	SEE INDEX	F01.--	HUB, TORQUE	2
12	SEE INDEX	D03.--	MOTOR/BRAKE, WHEEL DRIVE (5 cu. in.)	2
13	01-013100		VALVE, MOTION CONTROL	1
14	01-018300		VALVE, FLOW DIVIDER/COMBINER	1
15	01-034800		VALVE, GATE (globe, 1/4" NPT, female both ends)	1
16	01-018900		NEEDLE VALVE (flow control valve, SAE #6 ports)	1
17	01-011400		VALVE, CARTRIDGE RELIEF (SAE #8 ports, 50-5000 lb/in^2)	1
18	02-008400		RIM (11.75" X 19.5")	4
19	02-024800		TIRE, STEER (tubeless, 15" X 19.5 Jumbo Jet Cargo)	2
20	08-057100		BEARING, SWING	1
21	SEE INDEX	D02.--	SWIVEL, ROTARY (6-circuit)	1
22	02-024700		TIRE, DRIVE (tubeless, 15" X 19.5" Jumbo Super All Grip)	2
23	03-045000		REDUCER (3/4" X 1/2")	2
24	04-003401		PIN, CYLINDER (1" X 3-1/2")	1
25	04-003404		CLIP, CYLINDER HAIRPIN	2
26	08-040600		RING, RETAINER (1")	2
27	08-054000		FITTING, GREASE (straight, 1/4")	1
28	2041298		PIN, STEER CYLINDER (1" O.D. X 3" long)	1
29	2105980		PIN, STEER ARM SPINDLE (1-1/2" O.D. X 11-3/4" long)	3
30	07-003087		HHCS (1/2"-13 X 1-1/2" long)	4
31	07-065018		WASHER, HELICAL LOCK (1/2")	4
32	07-065021		WASHER, HELICAL LOCK (5/8")	16
33	2004277		SPACER, STEER ARM	1
34	SEE INDEX	F05.--	TOWING EQUIPMENT (optional)	1
35	01-013800		VALVE, SHUTTLE	1

TITLE: UNDERCARRIAGE ASSEMBLY, TWO-WHEEL DRIVE

PLATE NO. B01.24 | **SIMON AERIALS INC.** REV. 11/29/90 | PART NO.



UNDERCARRIAGE AS VIEWED FROM THE TOP



UNDERCARRIAGE AS VIEWED FROM THE LEFT SIDE

TITLE	UNDERCARRIAGE ASSEMBLY, TWO-WHEEL DRIVE		
SIMON AERIALS INC. REV. 11/29/90		PART NO.	PLATE NO. B01.24

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2046824		FRAME WELDMENT, UNDERCARRIAGE (Carrier frame)	1
2	2062161		AXLE, STEER (Power extend) (right hand)	1
3	2062172		AXLE, STEER (Power extend) (left hand)	1
4	2072119		AXLE, DRIVE (Power extend) (right hand)	1
5	2072126		AXLE, DRIVE (Power extend) (left hand)	1
6	2020857		RETAINER, POWER EXTEND AXLE (For 12" Tube)	4
7	2020899		RETAINER, POWER EXTEND AXLE (For 10" Tube)	4
8	2020828		ROD, TIE (inner)	2
9	2020794		ROD, TIE (outer)	1
10		C01.16	SPINDLE ASSEMBLY (right hand)	1
11		C01.17	SPINDLE ASSEMBLY (left hand)	1
12	B-620-916		BLOCK, AXLE EXTEND MOUNTING	4
13	2020930		BRACKET, SWING LOCK	1
14	2017266		BAR, MOUNTING	1
15	2027496		WHEEL ASSEMBLY	4
16	2011455		PIN, STEER ARM	2
17	A-620-909		PIN, SPINDLE	2
18	2011431		PIN, STEER CYLINDER (3/4" dia.)	1
19	2011444		PIN, STEER CYLINDER (1" dia.)	1
20	2011426		PIN, AXLE EXTEND	2
21	08-000900		CARRIER, HOSE	2
22	08-000100		SWING BEARING	1
23	02-000300		HUB, TORQUE (Power wheel, "Model 8")	2
24	04-000800		CYLINDER, AXLE EXTEND	2
25	04-001700		CYLINDER, STEER	1
26	04-001600	D02.02	SWIVEL, HYDRAULIC	1
27	01-000400	D03.01	MOTOR, DRIVE (with brake)	1
28	01-022100		VALVE, CROSSOVER RELIEF	1
29	01-001500		ACCUMULATOR, BRAKE	1
30	01-001900		VALVE, DOUBLE LOCK (Axle cylinder lock valve)	1
31	01-001800		VALVE, AXLE CYLINDER SELECTOR	1
32	07-080001		PIN, HITCH ("Cotterless", 3" long)	1
33	07-080002		PIN, HITCH ("Cotterless", 2.5" long)	1
34	01-030900		PLATE, SEAL	2
35	10-003300		GAUGE, "LEVEL ALL"	1
36	02-001200		TIRE, STEER AXLE (15" x 19.5", "Custom Hi-Miler")	2
37	02-001300		TIRE, DRIVE AXLE (15" x 19.5", "Custom Xtra Grip")	2
38	02-002400		VALVE STEM	4
			Note: This information also appears on "Lower Frame Assembly" pages in manual for "Giraffe" Model 800-60-S.	

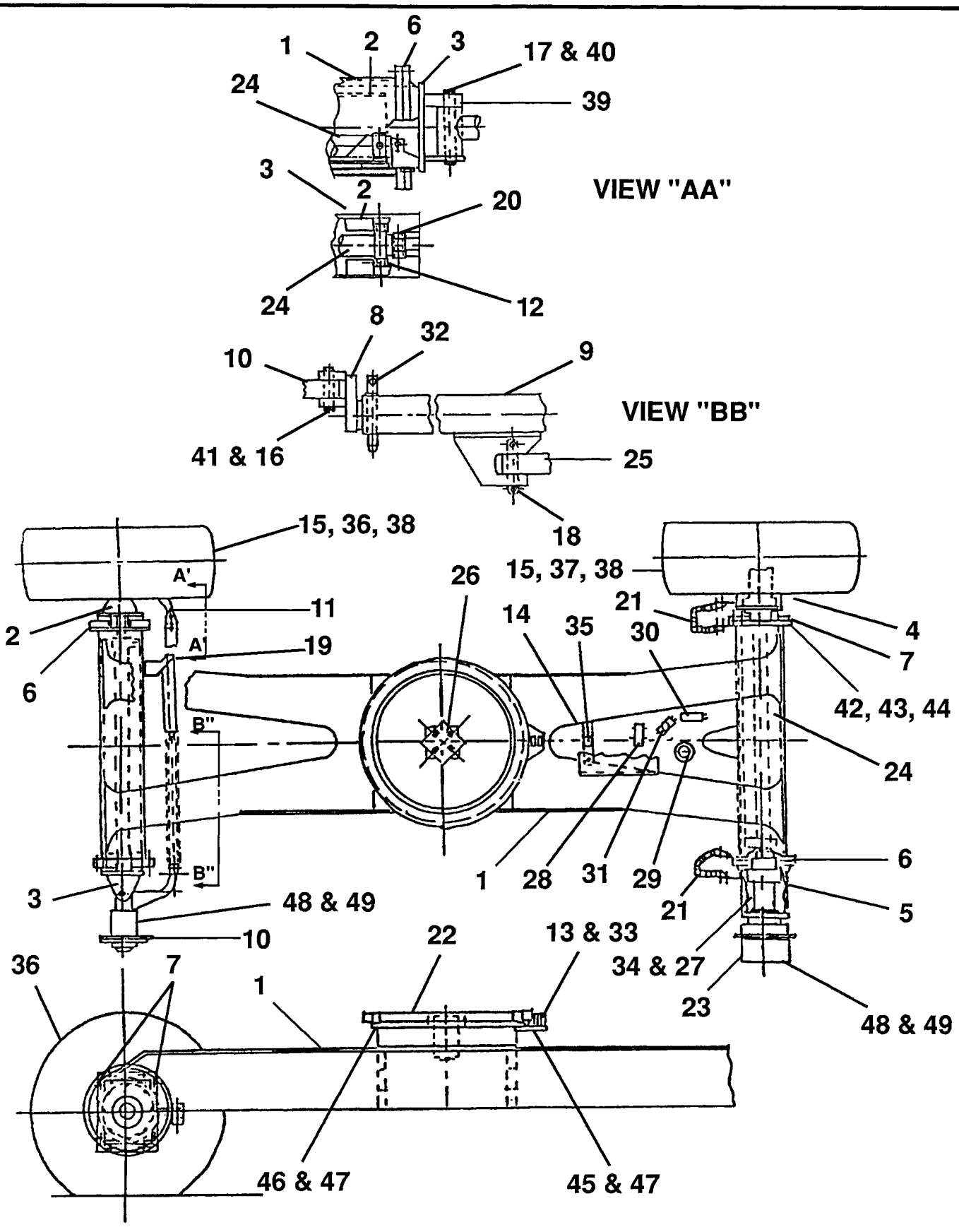
TITLE: UNDERCARRIAGE ASSEMBLY (PLATE 1 OF 2)

PLATE NO. B01.26

SIMON AERIALS INC.

NEW 10/01/90

PART NO.



TITLE	UNDERCARRIAGE ASSEMBLY (PLATE 1 OF 2)		
SIMON AERIALS INC. NEW 10/01/90		PART NO.	PLATE NO. B01.26

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
39	08-004200		BEARING, THRUST (Bronze, 3-5/8" O.D. x 1-15/16" I.D. x 3/16" thick)	2
40	08-040900		RING, RETAINING (1-1/2", Heavy duty)	4
41	08-040500		RING, RETAINING (3/4", Heavy duty)	4
42	07-004153		CAP SCREW, HEX HEAD (3/4"-10 x 3", Grade 8)	32
43	07-042022		NUT, HEX (3/4"-10)	32
44	07-065022		WASHER, LOCK (3/4")	32
45	07-004129		CAP SCREW, HEX HEAD (5/8"-11 x 2", Grade 8)	2
46	07-004128		CAP SCREW, HEX HEAD (5/8"-11 x 1-3/4", Grade 8)	22
47	07-062022		WASHER, FLAT (5/8", Hardened)	24
48	07-058117		NUT, WHEEL LUG (9/16"-18)	32
49	07-062020		WASHER, FLAT (9/16", Hardened)	32
			Note: This information also appears on "Lower Frame Assembly" pages in manual for "Giraffe" Model 800-60-S.	

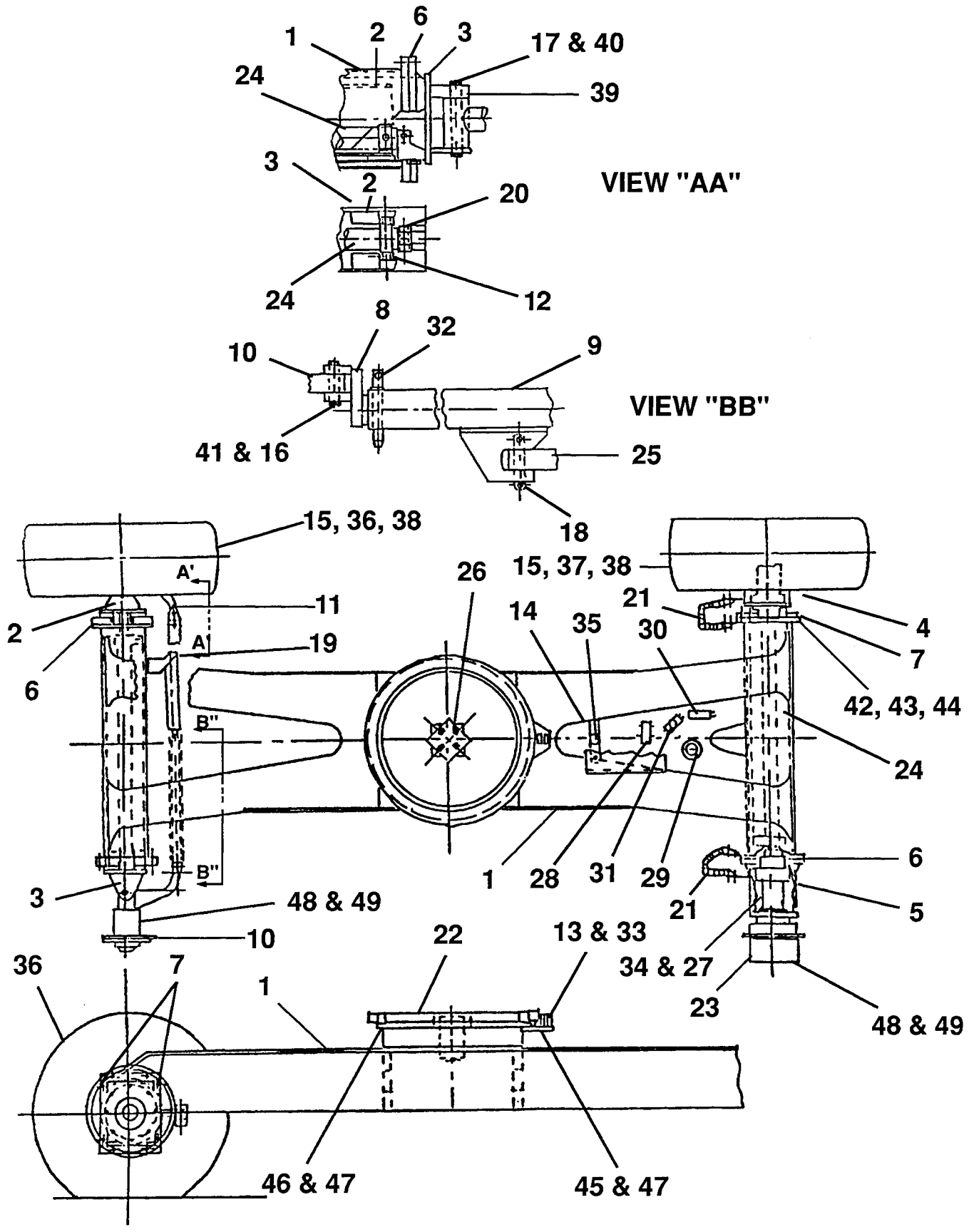
TITLE: UNDERCARRIAGE ASSEMBLY (PLATE 2 OF 2)

PLATE NO. B01.26

SIMON AERIALS INC.

NEW 10/01/90

PART NO.



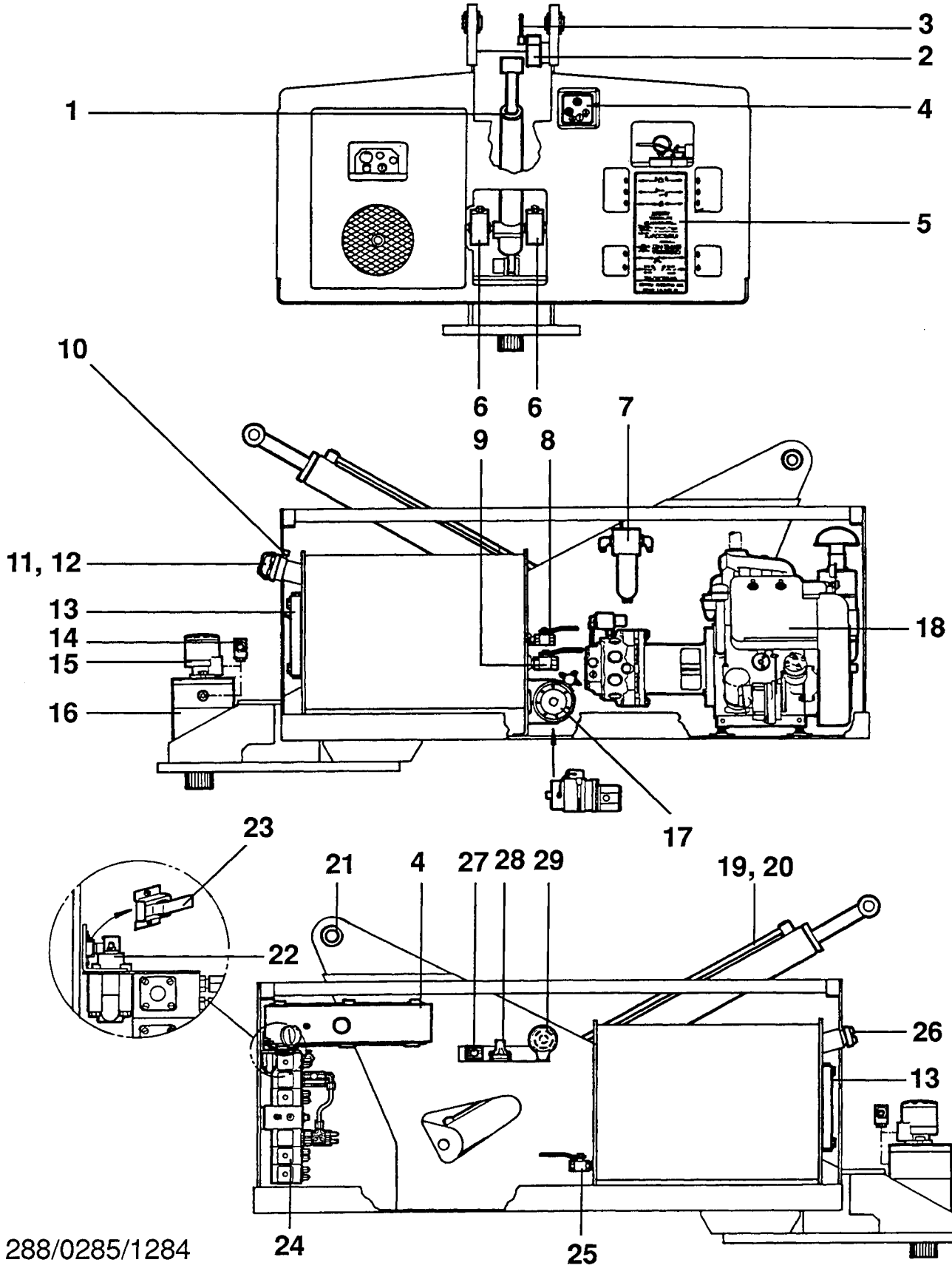
TITLE	UNDERCARRIAGE ASSEMBLY (PLATE 2 OF 2)		
SIMON AERIALS INC. NEW 10/01/90		PART NO.	PLATE NO. B01.26

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	See index	D10	MASTER LEVEL CYLINDER	1
2	03-021400		LIMIT SWITCH	1
3	03-026200		LEVER ARM, LIMIT SWITCH	1
4	See index	C3	GROUND CONTROL BOX	1
5	10-019400		DECAL, GROUND CONTROLS (500 LB. capacity)	1
6	01-008900		LEVELING RELIEF VALVE	2
7	See index	D11	HIGH PRESSURE FILTER	1
8	01-020600		SHUTOFF VALVE (3/4 inch)	1
9	01-002700		SHUTOFF VALVE (1-1/4 inches)	1
10	01-008200		VENT PLUG W/FILTER	1
11	10-002100		FILLER CAP, HYDRAULIC OIL	1
12	10-001000		STRAINER	1
13	See index	D12	SIGHT GAUGE	2
14	01-001400		SHUTTLE VALVE	1
15	See index	D6	SWING MOTOR	1
16	See index	F2	SWING REDUCER	
17	See index	D7	EMERGENCY PUMP	1
18	See index	C4	ENGINE ASSEMBLY	1
19	See index	D9	LIFT CYLINDER	1
20	04-021402		HOLDING VALVE, LIFT CYLINDER	1
21	08-013300		BEARING, BOOM PIVOT	1
22	See index	D5	GROUND HPC VALVE	1
23	03-416800		LIMIT SWITCH	1
24	See index	C2	VALVE BANK ASSEMBLY	1
25	01-032800		SHUTOFF VALVE (1/4 inch)	1
26	10-001900		FILLER CAP, FUEL	1
27	03-038300		MOVEMENT ALARM	1
28	03-038100		TILT ALARM	1
29	03-036100		HORN	1

TITLE: SUPERSTRUCTURE ASSEMBLY

PLATE NO. B02.09 | **SIMON AERIALS INC.** | REV. 09/08/91 | PART NO. 207263-6



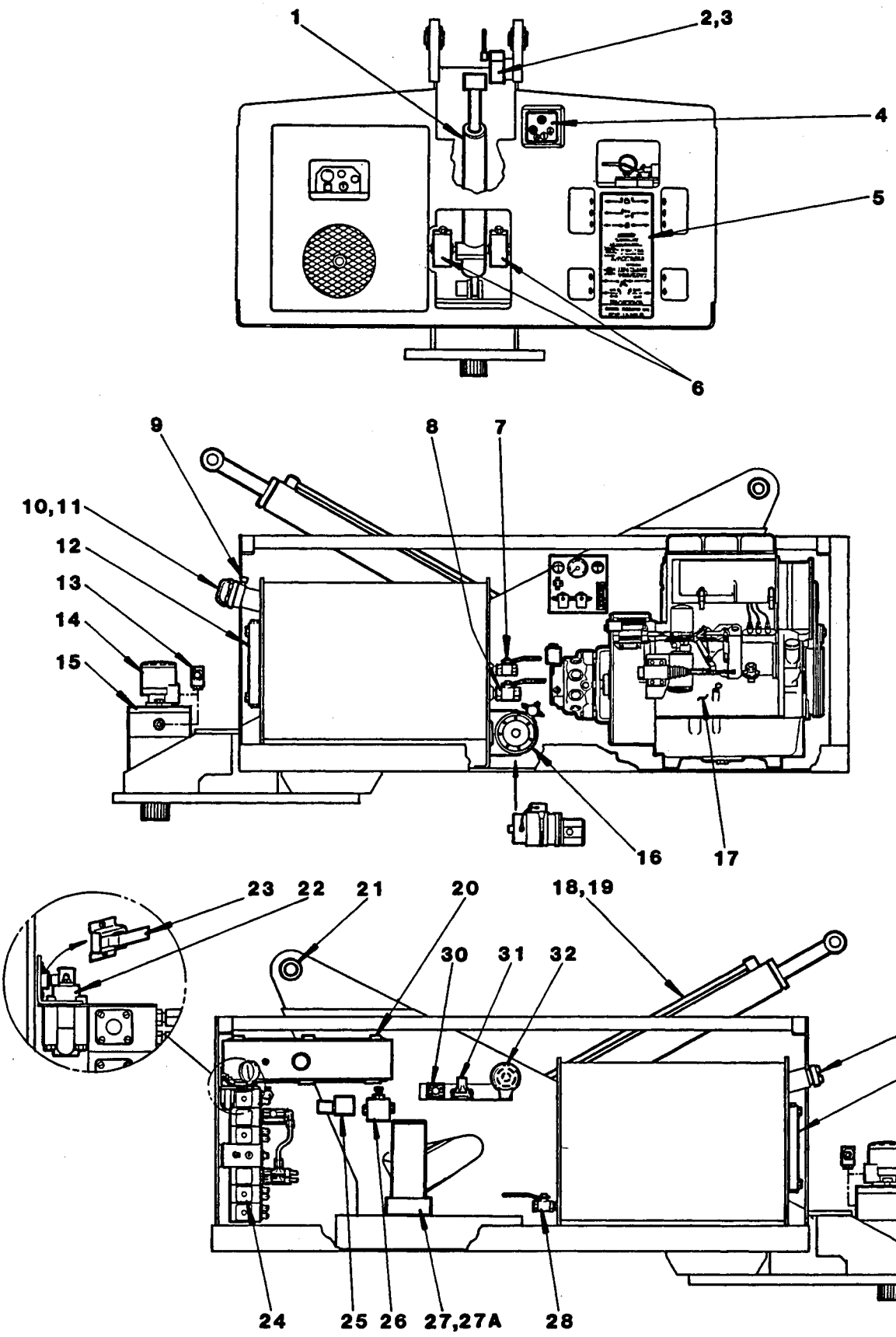
TITLE SUPERSTRUCTURE ASSEMBLY

SIMON AERIALS INC.	REV. 09/08/91	PART NO. 207263-6	PLATE NO. B02.09

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SEE INDEX	D10	MASTER LEVEL CYLINDER	1
2	03-021400		LIMIT SWITCH	1
3	03-026200		LEVER ARM, LIMIT SWITCH	1
4	SEE INDEX	C3	GROUND CONTROL BOX	1
5	10-019400		DECAL, GROUND CONTROLS (500 LB. CAPAC.)	1
6	01-018900		LEVELING RELIEF VALVE	2
7	01-020600		SHUTOFF VALVE, 3/4"	1
8	01-002700		SHUTOFF VALVE, 1-1/4"	1
9	01-008200		VENT PLUG W/FILTER	1
10	10-002100		FILLER CAP, HYDRAULIC OIL	1
11	10-001000		STRAINER	1
12	SEE INDEX	D12	SIGHT GAUGE	1
13	01-013800		SHUTTLE VALVE, #6 SAE PORTS	1
14	SEE INDEX	D6	SWING MOTOR	1
15	SEE INDEX	F2	SWING REDUCER	1
16	SEE INDEX	D7	EMERGENCY PUMP	1
17	SEE INDEX	C4	ENGINE ASSEMBLY	1
18	SEE INDEX	D9	LIFT CYLINDER	1
19	01-023900		HOLDING VALVE, LIFT CYLINDER	1
20	SEE INDEX	C3	GROUND CONTROL BOX	1
21	08-013300		BEARING, BOOM PIVOT	2
22	SEE INDEX	D5	GROUND HPC VALVE	1
23	03-026700		LIMIT SWITCH	1
24	DEE INDEX	C2	VALVE BANK ASSEMBLY	1
25	01-037100		SOLENOID VALVE, HI SPEED DRIVE	1
26	01-012800		PRESSURE REDUCING VALVE	1
27	01-014000		HIGH PRESSURE FILTER	1
27A	01-014001		FILTER ELEMENT, HIGH PRESSURE FILTER	1
28	01-032800		SHUTOFF VALVE, 1/4"	1
29	10-001900		FILLER CAP, FUEL	1
30	03-038300		MOVEMENT ALARM	1
31	03-038100		TILT ALARM	1
32	03-036100		HORN, TILT ALARM	1

DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY	



0886/0986

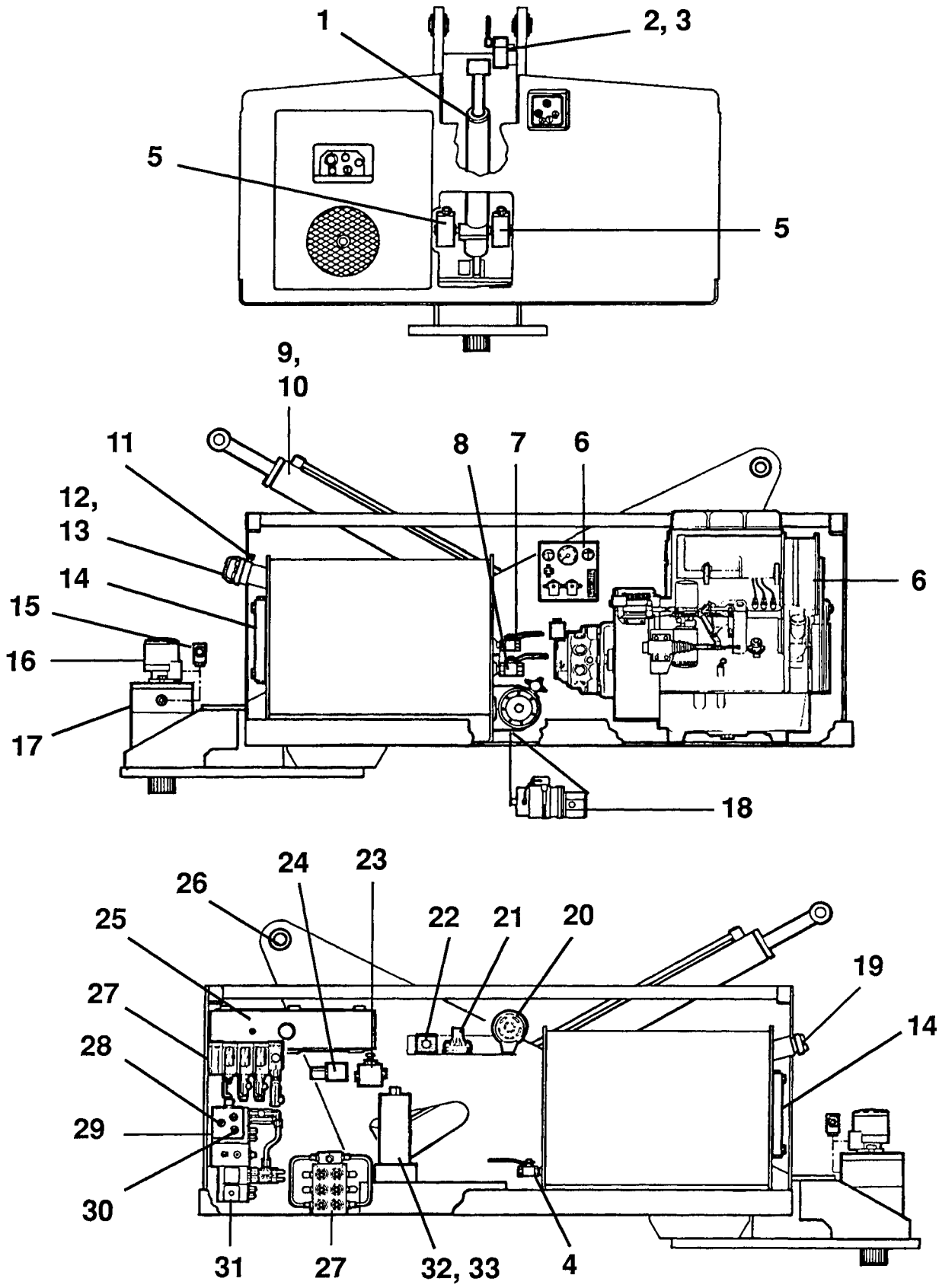
DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	See Index	D10	MASTER LEVELING CYLINDER	1
2	03-021400		LIMIT SWITCH	1
3	03-026200		LEVER ARM, LIMIT SWITCH	1
4	01-032800		SHUTOFF VALVE, 1/4 INCH	1
5	01-008900		RELIEF VALVE, LEVELING	2
6	See Index	C4	ENGINE ASSEMBLY	1
7	01-020600		SHUTOFF VALVE, 3/4 INCH	1
8	01-002100		SHUTOFF VALVE, 1-1/4 INCHES	1
9	See Index	D9	LIFT CYLINDER	1
10	04-021402		HOLDING VALVE, LIFT CYLINDER	1
11	01-008200		VENT PLUG W/FILTER	1
12	01-002100		FILLER CAP, HYDRAULIC OIL	1
13	10-001000		STRAINER	1
14	See Inedx	D12	SIGHT GAUGE	2
15	01-013800		SHUTTLE VALVE	1
16	See Index	D6	SWING MOTOR	1
17	See Index	F2	SWING REDUCER	1
18	See Index	D7	EMERGENCY PUMP	1
19	10-001900		FILLER CAP, FUEL	1
20	03-038100		HORN	1
21	03-038100		TILT ALARM	1
22	03-038300		MOVEMENT ALARM	1
23	01-012800		PRESSURE REDUCING VALVE	1
24	01-037100		SOLENOID VALVE, 2-WAY (2 SPEED DRIVE)	1
25	See Index	C3	GROUND CONTROL BOX	1
26	08-013300		BEARING, BOOM PIVOT	2
27	See Index	C2	VALVE BANK ASS'Y. (LIFT, SWING, TELESCOPE)	1
28	03-020600		TOGGLE SWITCH (PUMP - AUX., MAIN)	1
29	03-419000		SWITCH BOX (INCL. 03-419100 COVER)	1
30	03-020500		TOGGLE SWITCH (DRIVE, STEER)	2
31	See Index	C2	VALVE BANK ASSEMBLY (DRIVE, STEER)	1
32	01-014000	D11.3	HIGH PRESSURE FILTER	1
33	01-014001		FILTER ELEMENT, HIGH PRESS. FILTER	1

TITLE SUPERSTRUCTURE ASSEMBLY (FULL HYDRAULIC)

PLATE NO. B02.21 | **SIMON AERIALS INC.** REV. 09/24/91 | PART NO.



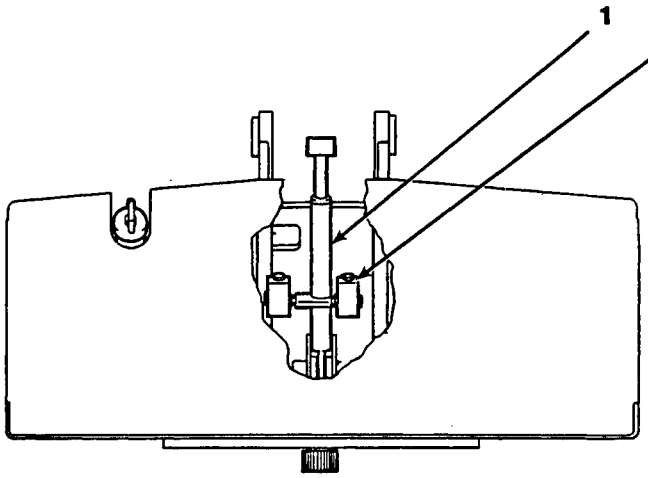
TITLE SUPERSTRUCTURE ASSEMBLY (FULL HYDRAULIC)

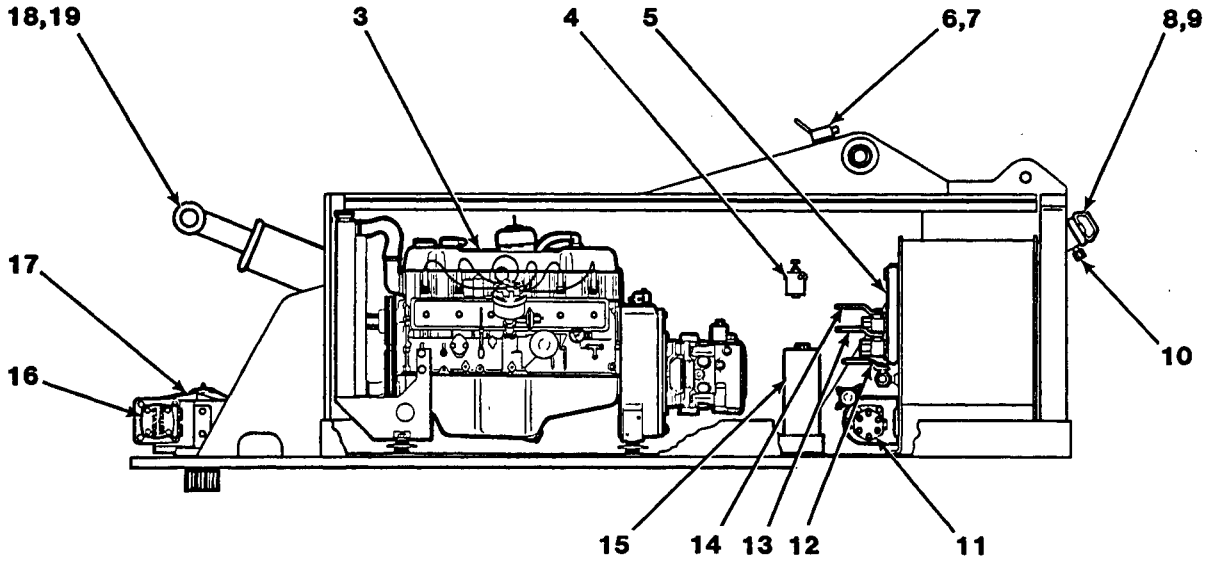
SIMON AERIALS INC. REV. 09/24/91 | PART NO. | PLATE NO. B02.21

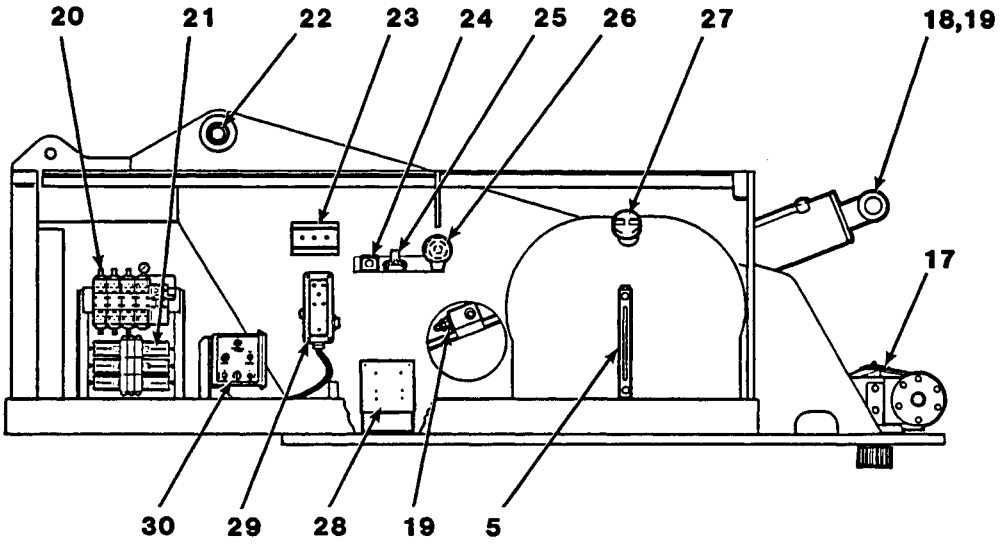
PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SEE INDEX	D10	MASTER LEVELING CYLINDER	1
2	01-008900		RELIEF VALVE, LEVELING	2
2	SEE INDEX	C 4	ENGINE ASSEMBLY	1
4	01-061800		SEQUENCE VALVE	1
5	10-033500		SIGHT GAUGE	2
6	03-025600		LIMIT SWITCH	1
7	03-026200		LEVER ARM, LIMIT SWITCH	1
8	10-002100		FILLER CAP, HYDRAULIC OIL	1
9	10-001000		STRAINER	1
10	01-008200		VENT PLUG W/FILTER	1
11	SEE INDEX	D 7	EMERGENCY PUMP	1
12	01-020600		SHUTOFF VALVE, 3/4"	1
13			SHUTOFF VALVE, 1½"	1
14	01-015700		SHUTOFF VALVE, 2"	1
15	SEE INDEX	D11	HIGH PRESSURE FILTER	1
16	SEE INDEX	D 6	SWING MOTOR	1
17	SEE INDEX	F 2	SWING REDUCER	1
18	SEE INDEX	D 9	LIFT CYLINDER	1
19	01-023900		HOLDING VALVE	1
20	SEE INDEX	C 2	VALVE BANK ASS'Y(DRIVE,SWING,LIFT,SWING)	1
21	SEE INDEX	C 2	VALVE BANK ASS'Y (STEER,LEVEL,ROTATE)	1
22	08-015200		BEARING, BOOM PIVOT	2
23	03-067600		BATTERY SPLITTER	1
24	03-038300		MOVEMENT ALARM	1
25	03-038100		TILT ALARM	1
26	03-036100		HORN	1
27	10-001900		FILLER CAP, FUEL	1
28	SEE INDEX	C 2	GRAND CONTROL BOX ASSEMBLY	1
29	SEE INDEX	C 6	REMOTE CONTROLLER (PENDANT)	1
30	SEE INDEX	C 2	GRAND CONTROL BOX(PROPORTIONAL CONTROLS)	1

DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY	







0687/0687

DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY	

PARTS LIST

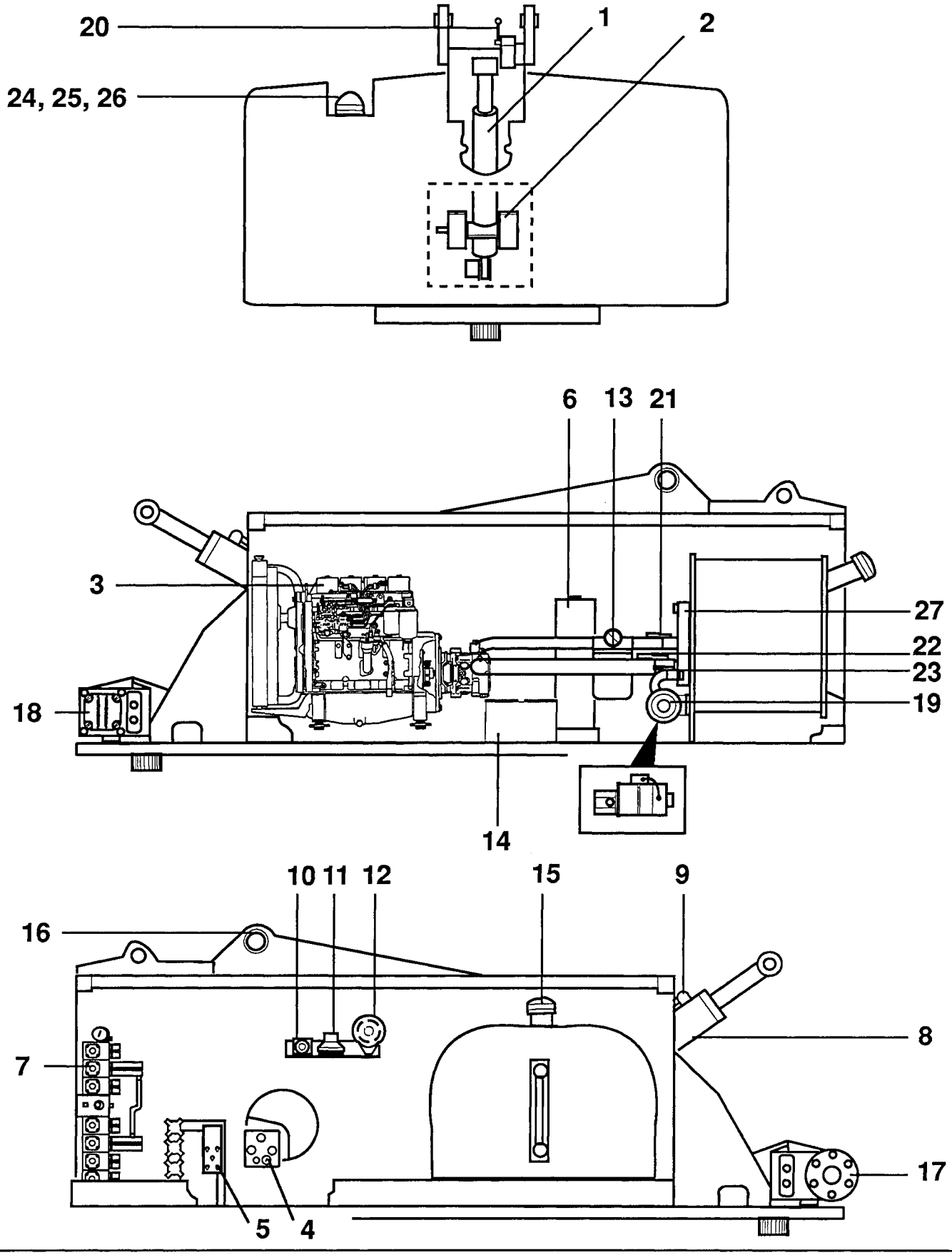
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	See index	D10.--	CYLINDER, MASTER LEVELING	1
2	01-008900		VALVE, LEVELING CYLINDER RELIEF	2
3	See index	C04.--	ENGINE ASSEMBLY	1
4	See index	C03.--	BOX, GROUND CONTROL	1
5	See index	C06.--	PENDANT CONTROLLER ASSEMBLY	1
6	01-014000	D11.03	FILTER, HIGH PRESSURE	1
7	See index	C02.--	VALVE BANK ASSEMBLY	1
8	See index	D09.--	CYLINDER, LIFT	1
9	01-023900		HOLDING VALVE, LIFT CYLINDER	1
10	03-038300		ALARM, MOVEMENT	1
11	03-038100		ALARM, TILT	1
12	03-036100		HORN	1
13			FILTER	1
14			BATTERY (12 Volt DC)	1
15	10-001900		CAP, FUEL FILLER	1
16	08-015200		BEARING, BOOM PIVOT	2
17	See index	F02.--	REDUCER, SWING	1
18	See index	D06.--	MOTOR, SWING	1
19	See index	D07.--	PUMP, EMERGENCY	1
20			SWITCH, LIMIT	1
21			VALVE, SHUT OFF (1-1/2")	1
22	01-015700		VALVE, SHUT OFF (2")	1
23	01-020600		VALVE, SHUT OFF (3/4")	1
24	01-008200		PLUG, VENT (with filter)	1
25	10-001000		STRAINER	1
26	10-002100		CAP, HYDRAULIC FLUID FILLER	1
27	See index	D12.--	GAUGE, SIGHT	1

TITLE: SUPERSTRUCTURE ASSEMBLY

PLATE NO. B02.26

SIMON AERIALS INC. REV. 10/01/90

PART NO.



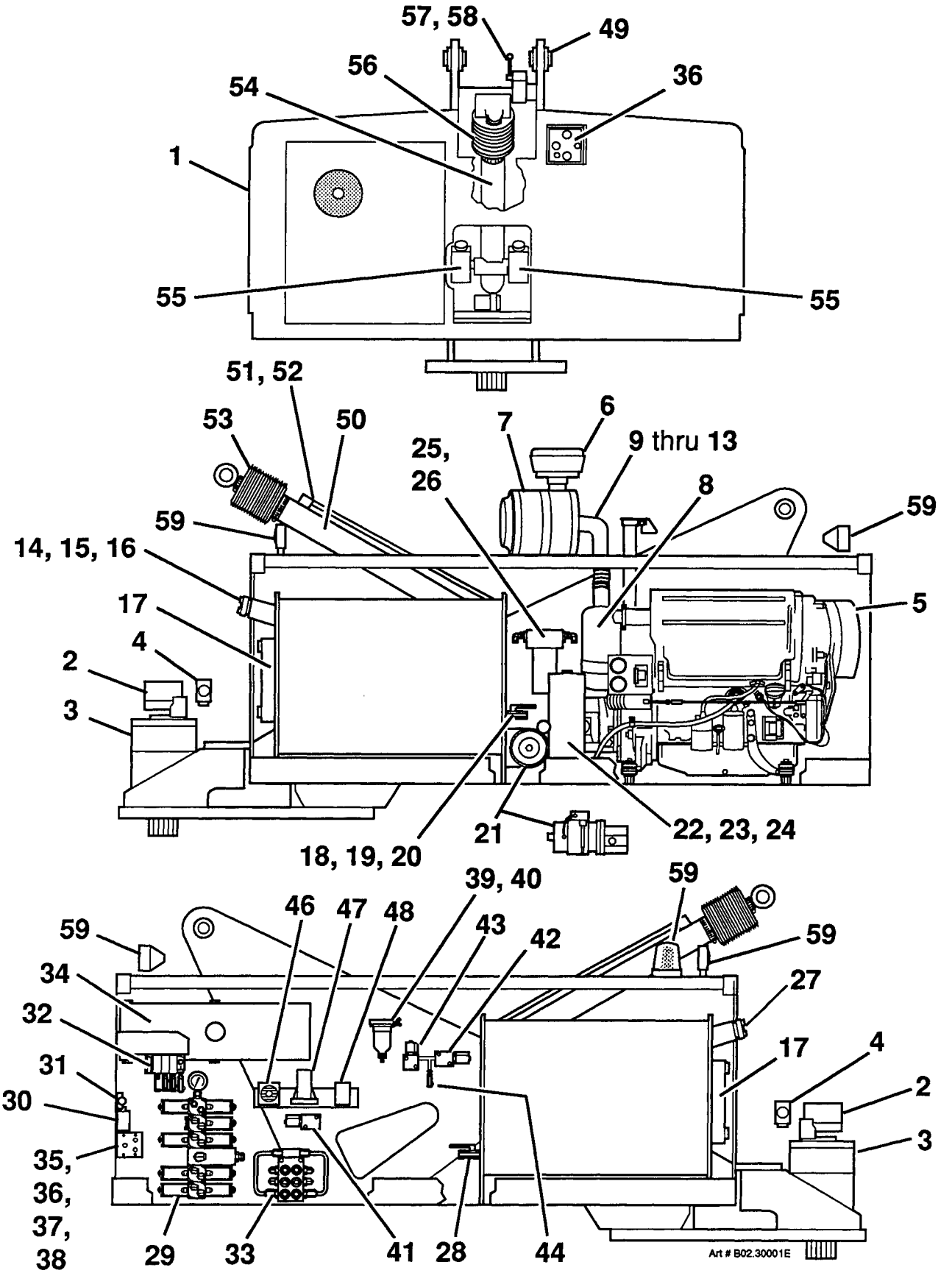
TITLE	SUPERSTRUCTURE ASSEMBLY		
SIMON AERIALS INC.	REV. 10/01/90	PART NO.	PLATE NO. B02.26

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Note: This assembly equipped with components which enable use of water-glycol hydraulic fluid.	
1			SUPERSTRUCTURE WELDMENT	1
2	See index . .	D06.10	MOTOR, HYDRAULIC SWING	1
3	See index . .	F02.04	REDUCER, SWING (Planetary type)	1
4	01-013800		VALVE, SHUTTLE	1
5	See index . .	C04.29	ENGINE ASSEMBLY	1
6	09-047100		PRECLEANER, AIR	1
7	09-047000		FILTER, AIR	1
8			PURIFIER, INTAKE AIR (Oil bath) (comes with engine)	1
9	2166810		TUBE, EXTENSION (2-3/4" x 7")	1
10	09-047200		ELBOW, RUBBER (2-1/2")	1
11	2169650		OUTLET, AIR CLEANER	1
12	2169660		GASKET	1
13			CLAMP	2
14	10-002100		CAP, HYDRAULIC TANK FILLER	1
15	01-200900		STRAINER, TANK	1
16	01-008200		PLUG, VENT (with 40 micron filter)	1
17	See index . .	D12.05	GAUGE, SIGHT	2
18	01-068500		VALVE, BALL (Shutoff valve) (1" NPT)	1
19	01-063000		VALVE, BALL (Shutoff valve) (1-1/2" NPT)	1
20	01-201300		DIFFUSER, TANK (in tank, at pump suction line)	1
21	See index . .	D07.04	PUMP, EMERGENCY HYDRAULIC	1
22	01-014000	D11.03	FILTER, HYDRAULIC (High pressure) (element that comes with filter must be replaced for this application)	1
23	01-200700		ELEMENT, FILTER (synthetic, for water glycol fluid)	1
24	01-014002		SEAL KIT (for high pressure filter)	1
25	01-200800		FILTER ASSEMBLY, HYDRAULIC (Return line)	1
26	01-200801		ELEMENT, RETURN FILTER	1
27	10-001900		CAP, FUEL TANK FILLER (Vented, anti-surge)	1
28	01-032800		VALVE, FUEL SHUTOFF (1/4" NPT)	1
29	See index . .	C02.32	MANIFOLD ASSEMBLY (Drive/ Steer)	1
30	See index . .	C02.36	VALVE ASSEMBLY, STEERING RELIEF	1
31	01-010900		VALVE, SELECTOR (Drive/ Tow steering disengage)	1
32	See index . .	C02.31	VALVE ASSEMBLY, GROUND (Lift/ Swing/ Telescope)	1
33	See index . .	C02.31	VALVE ASSEMBLY, SHUTTLE	1
34	See index . .	C03.22	BOX ASSEMBLY, GROUND ELECTRICAL CONTROL	1

TITLE SUPERSTRUCTURE (SPECIAL MP 80 FULL HYD.) (PLATE 1 OF 2)

PLATE NO.			PART NO.
B02.30	**SIMON AERIALS INC.**	REV. 06/25/91	



TITLE SUPERSTRUCTURE (SPECIAL MP 80 FULL HYD.) (PLATE 1 OF 2)

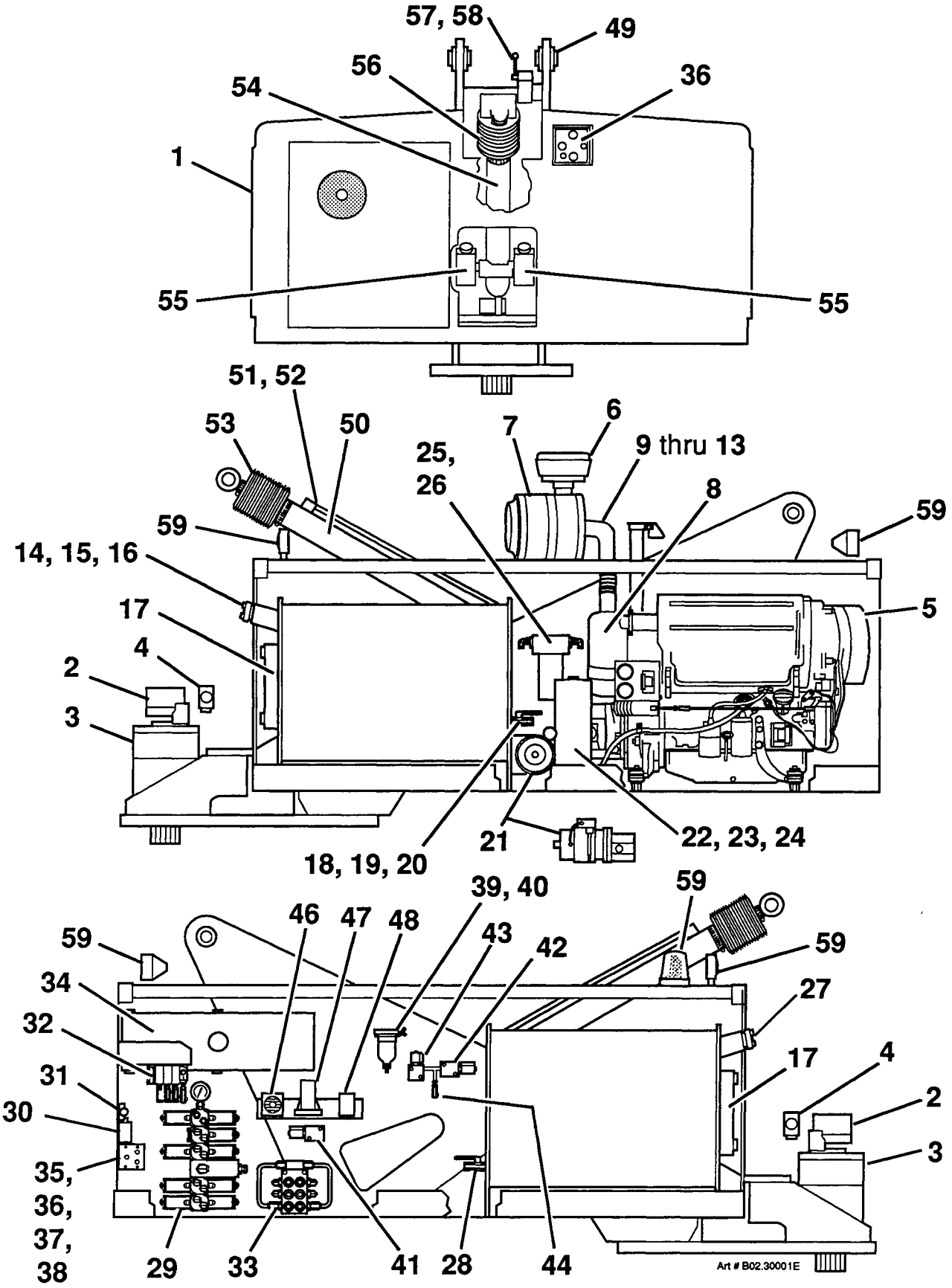
SIMON AERIALS INC. REV. 06/25/91	PART NO.	PLATE NO. B02.30

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
35	03-419000		BOX ASSEMBLY, SWITCH (includes cover)	1
36	03-419100		COVER, SWITCH BOX	1
37	03-020500		SWITCH, TOGGLE (Drive and steer)	
			(3 position, intermittent contact, single pole, double throw)	2
38	03-020600		SWITCH, TOGGLE (Pump selector)	
			(3 position, intermittent contact, double pole, double throw)	1
39	09-018200		SEPARATOR, FUEL/ WATER	1
40	09-018201		ELEMENT, WATER SEPARATOR	1
41	01-037100		VALVE, 3 WAY SOLENOID (High/ low drive)	1
42	01-037100		VALVE, 3 WAY SOLENOID (Ground speed control)	1
43	01-201200		VALVE, 2 WAY SOLENOID (Pump stroke)	1
44	01-018900		VALVE, NEEDLE (Ground speed control)	1
45	3505326	E08.01	ALARM ASSEMBLY	1
46	03-472000		ALARM, MOVEMENT	1
47	03-038100		SENSOR, LEVEL (2 second delay)	1
48	03-464600		HORN, LEVEL WARNING	1
49	08-013300		BUSHING, SELF ALIGNING (Boom pivot)	2
50	See index . .	D09.32	CYLINDER, BOOM LIFT	1
51	04-021402		VALVE, LIFT CYLINDER HOLDING	1
52	04-021409		SEAL KIT, HOLDING VALVE	1
53	10-114000		BOOT, BOOM LIFT CYLINDER	1
54	See index . .	D10.12	CYLINDER, MASTER LEVEL	1
55	01-008900		VALVE, RELIEF	2
56	10-040900		BOOT, MASTER LEVEL CYLINDER	1
57	03-025600		SWITCH, LIMIT	1
58	03-026200		LEVER BLOCK, LIMIT SWITCH	1
59	See index . .	E05.01	LIGHT PACKAGE	1

TITLE SUPERSTRUCTURE (SPECIAL MP 80 FULL HYD.) (PLATE 2 OF 2)

PLATE NO. B02.30 | **SIMON AERIALS INC.** REV. 06/25/91 | PART NO.



TITLE SUPERSTRUCTURE (SPECIAL MP 80 FULL HYD.) (PLATE 2 OF 2)

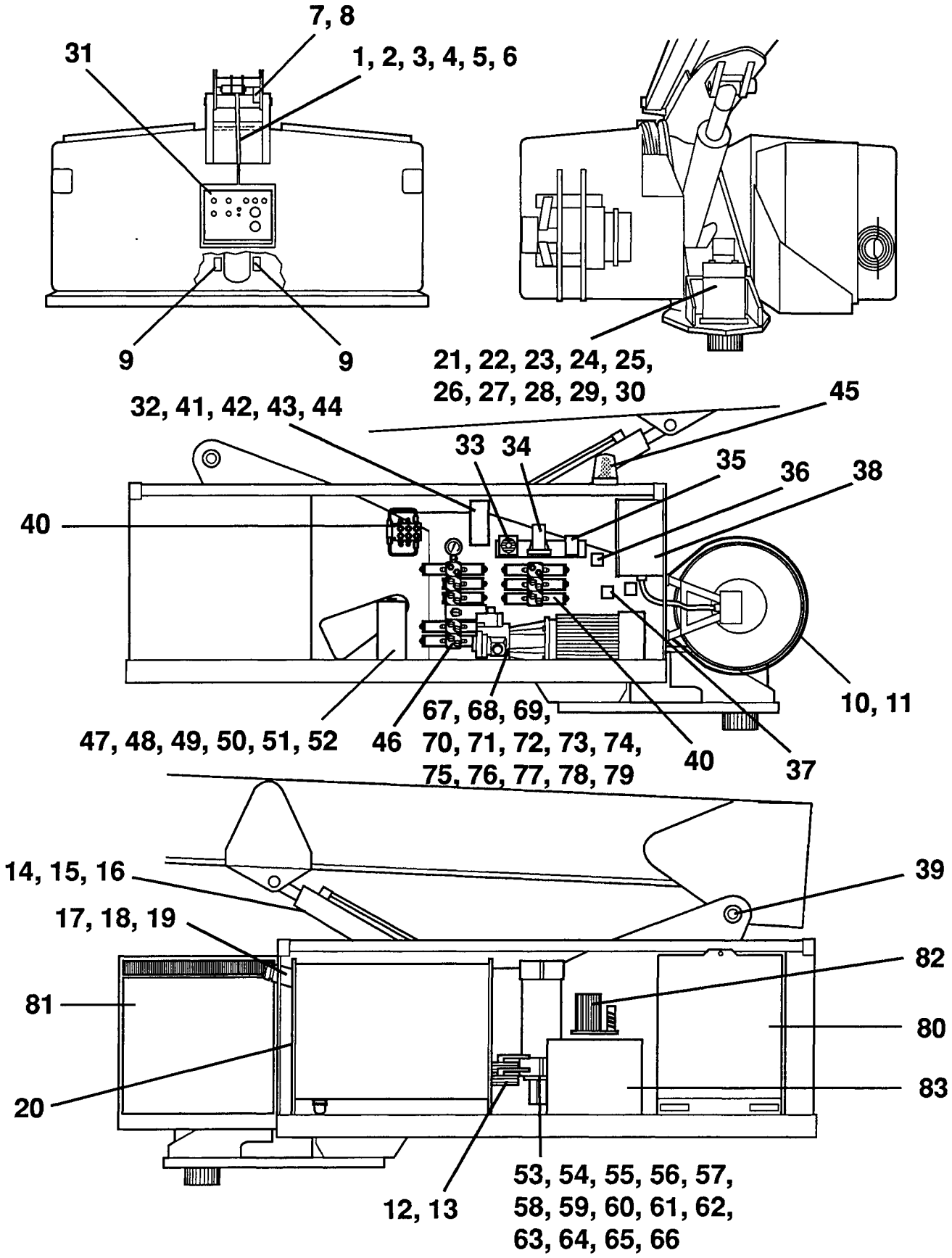
SIMON AERIALS INC.	REV. 06/25/91	PART NO.	PLATE NO. B02.30

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	SEE INDEX	D10.--	MASTER LEVEL CYLINDER	1
2	2068884		PIN, MASTER CYLINDER BASE END	1
3	08-040700		RING, RETAINING (1-1/4")	2
4	08-013300		BEARING, SELF-ALIGNING	2
5	08-050000		FITTING, GREASE (1/8" straight)	1
6	08-050500		FITTING, GREASE (1/8" x 45°)	1
7	03-021400		LIMIT SWITCH	1
8	03-026200		ARM, LIMIT SWITCH	1
9	01-008900		VALVE, RELIEF (level and steer)	2
10	03-471600	E06.01	REEL, CABLE (100' capacity)	1
11	03-472400		CABLE, ELECTRICAL (12 gauge, 4 conductor, 130")	1
12	01-068500		VALVE, SHUTOFF BALL (1")	1
13	01-063000		VALVE, SHUTOFF BALL (1-1/2")	1
14	SEE INDEX	D09.--	CYLINDER, LIFT	1
15	2069166		PIN, LIFT CYLINDER BASE END	1
16	08-041000		RING, RETAINING (1-3/4")	4
17	01-008200		PLUG, VENT (w/40 micron filter)	1
18	01-002100		CAP, FILL (hydraulic oil)	1
19	10-001000		STRAINER, TANK	1
20	SEE INDEX	D12.--	GAUGE, SIGHT	2
21	01-013800		VALVE, SHUTTLE	1
22	SEE INDEX	D06.--	MOTOR, SWING	1
23	07-003086		CAPSCREW, HEX HEAD (1/2"-13 x 1-1/4")	2
24	07-062018		WASHER, FLAT (1/2")	2
25	07-065018		WASHER, LOCK (1/2")	2
26	2143480		COVER, PINION	1
27	2059387		RING, ECCENTRIC	1
28	2070878		LOCK, ECCENTRIC	1
29	2083030		SPACER	4
30	SEE INDEX	F02.--	REDUCER, SWING	1
31	SEE INDEX	C03.--	BOX, GROUND CONTROL	1
32	SEE INDEX	D06.--	PENDANT, CONTROL	1
33	03-472000		HORN	1
34	03-038100		ALARM, LEVEL SENSOR TILT (4.5', 2-second delay)	1
35	03-464600		ALARM, MOVEMENT	1
36	01-012800		VALVE, PRESSURE REDUCING (100-3000 psi/10 gpm)	1
37	01-201000		VALVE, SOLENOID (2-way, 2 speed drive)	1
38	SEE INDEX	C03.--	BOX, MOTOR CONTROL (AC)	1
39	08-013300		BEARING, BOOM PIVOT	2
40	SEE INDEX	C02.--	VALVE BANK ASSEMBLY (lift, swing, telescope)	1
41	03-020600		SWITCH, TOGGLE (pump-aux./ main)	1
42	03-419000		BOX, SWITCH (includes 03-419100 cover)	1

TITLE SUPERSTRUCTURE ASSEMBLY (FULL HYDRAULIC) (PLATE 1 OF 2)

PLATE NO. B02.32 | **SIMON AERIALS INC.** REV. 11/26/90 | PART NO.



TITLE SUPERSTRUCTURE ASSEMBLY (FULL HYDRAULIC) (PLATE 1 OF 2)

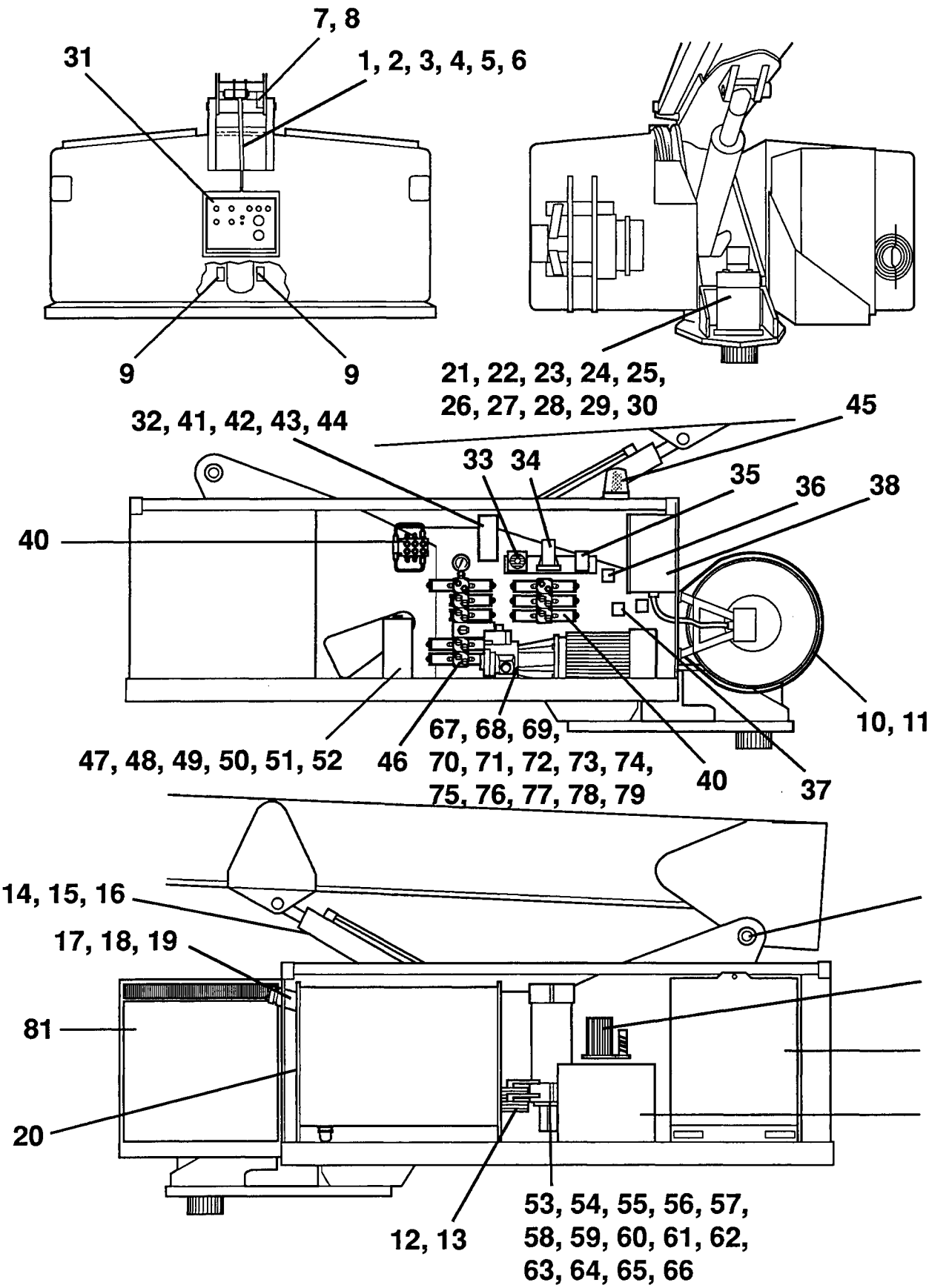
SIMON AERIALS INC. REV. 11/26/90	PART NO.	PLATE NO. B02.32

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
43	03-020500		SWITCH, TOGGLE (drive, steer)	2
44	03-020400		SWITCH, TOGGLE (pump)	1
45	03-446400		LIGHT, BLUE STROBE (48 Vdc)	1
46	SEE INDEX	C02.--	VALVE BANK ASSEMBLY (drive and steer)	1
47	01-014000	D11.--	FILTER, HYDRAULIC PRESSURE (55 lb/in^2 spring)	1
48	01-200700		ELEMENT, HIGH PRESSURE FILTER	1
49	01-200800		FILTER ASSEMBLY, RETURN	1
50	01-072400		VALVE, DRIVE FLOW CONTROL	1
51	01-200600		VALVE, CHECK	1
52	01-012300		VALVE, FLOW CONTROL (0.75-5 gpm, 1/4" NPT)	1
53	03-472200		MOTOR, PUMP (11-1/2 hp, 48 Vdc)	1
54	01-099600	D08.10	PUMP (Sundstrand L-15)	1
55	07-003475		CAPSCREW, HEX HEAD (3/8"-24 x 1-1/4")	2
56	07-062016		WASHER, FLAT (3/8")	6
57	07-065016		WASHER, LOCK (3/8")	6
58	2165480		BRACKET, MOUNTING	1
59	07-003130		CAPSCREW, HEX HEAD (5/8"-11 x 2-1/4")	2
60	07-050021		NUT, HEX LOCK (5/8"-11)	2
61	09-046900		MOUNT, ISOLATOR	4
62	2165470		BRACKET, SUPPORT	1
63	2165510		BRACKET, SUPPORT	1
64	07-003025		CAPSCREW, HEX HEAD (5/16"-18 x 1")	8
65	07-050015		NUT, HEX LOCK (5/16"-18)	8
66	07-003045		CAPSCREW, HEX HEAD (3/8"-16 x 1")	4
67	03-472300		ENCLOSURE	1
68	03-470100		MOTOR, PUMP (10 hp, 460 Vac)	1
69	02-031800		COUPLING, HALF	1
70	02-031900		COUPLING, HALF	1
71	02-018200		COUPLING, INSERT	1
72	02-032100		ADAPTER, PUMP TO MOTOR	1
73	01-099700	D08.11	PUMP (Sundstrand L23)	1
74	07-003086		CAPSCREW, HEX HEAD (1/2"-13 x 1-1/4")	6
75	07-062018		WASHER, FLAT (1/2")	2
76	07-065018		WASHER, LOCK (1/2")	6
77	09-046900		MOUNT, ISOLATOR	4
78	07-003046		CAPSCREW, HEX HEAD (3/8"-16 x 1-1/4")	4
79	07-065016		WASHER, LOCK (3/8")	4
80	03-471400		BATTERY	2
81	03-471500		CHARGER, BATTERY	1
82	03-472800		CONVERTER (48Vdc to 24 Vdc)	1
83	SEE INDEX	C03.--	BOX, MOTOR CONTROL (dc)	1

TITLE SUPERSTRUCTURE ASSEMBLY (FULL HYDRAULIC) (PLATE 2 OF 2)

PLATE NO.			PART NO.
B02.32	**SIMON AERIALS INC.**	REV. 11/26/90	



TITLE SUPERSTRUCTURE ASSEMBLY (FULL HYDRAULIC) (PLATE 2 OF 2)

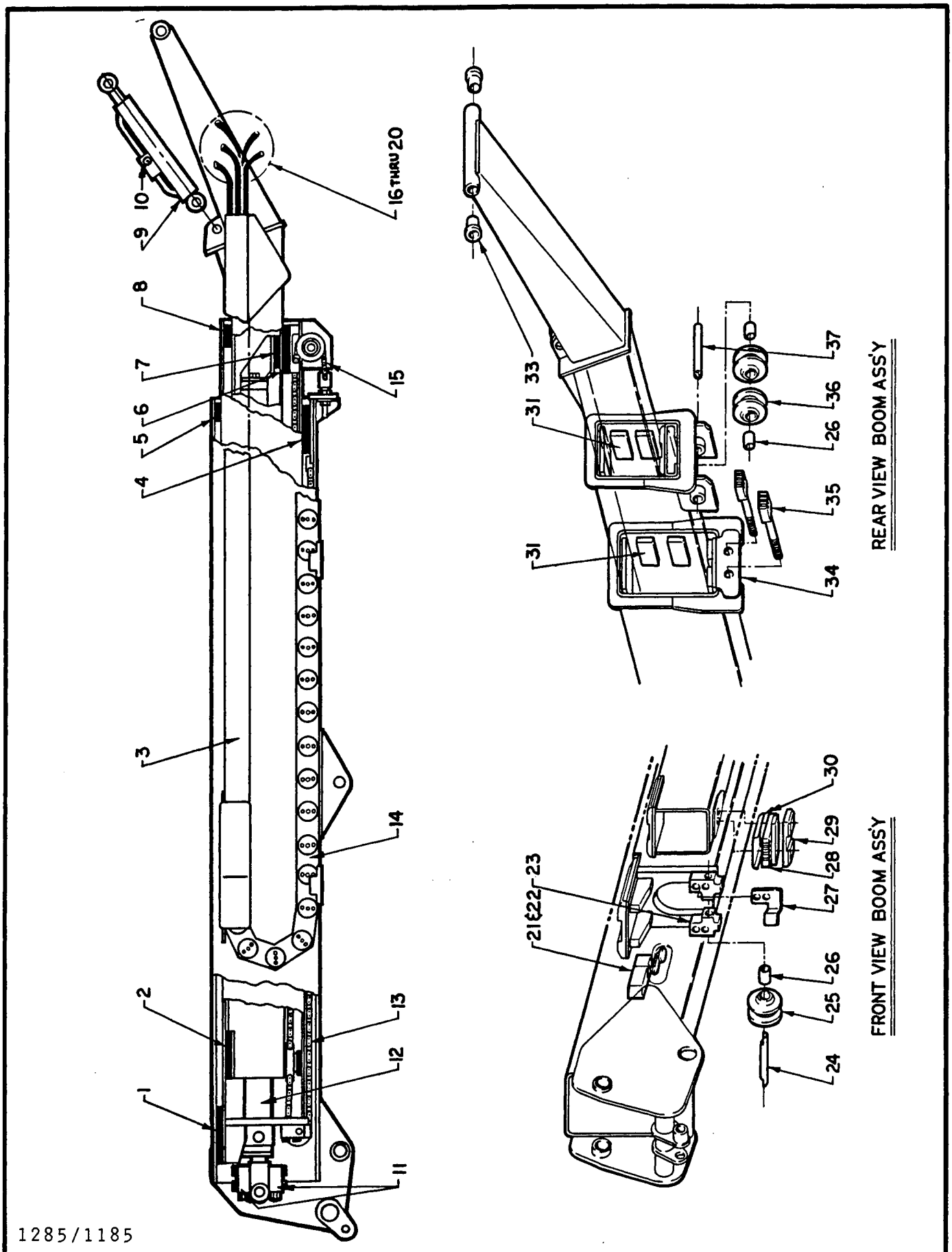
SIMON AERIALS INC.	REV. 11/26/90	PART NO.	PLATE NO. B02.32

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SCD-208361-4		SLIDER PAD, MID BOOM (TOP-FRONT)	1
2	SCD-204328-9		SLIDER PAD, TIP BOOM (TOP-FRONT)	1
3			MOVING ANCHOR	1
4	SCD-208371-7		SLIDER PAD, BASE BOOM (REAR-BOTTOM)	1
5	SBD-208860-0		SLIDER PAD, BASE BOOM (REAR-TOP)	1
6	SAD-207299-9		SLIDER PAD, MID BOOM (REAR BOTTOM)	1
7	SBD-201293-3		SLIDER PAD, EXTEND CYLINDER	1
8	SBD-208864-4		SLIDER PAD, MID BOOM (REAR-TOP)	1
9	SEE INDEX	D20	SLAVE LEVELING CYLINDER	1
10	SEE INDEX	D21	HOLDING VALVE, SLAVE LEVEL CYLINDER	2
11	01-002400		HOLDING VALVE, EXTEND CYLINDER	2
12	SEE INDEX	D19	EXTEND CYLINDER	1
13	08-011100		LEAF CHAIN, FRONT (INSIDE)	1
14	SEE INDEX	F3	HOSE TRACK	1
15	08-011000		LEAF CHAIN, REAR (OUTSIDE)	2
16			HYDRAULIC HOSE, HPC RETURN	1
17			HYDRAULIC HOSE, HPC PRESSURE	1
18			HYDRAULIC HOSE, SLAVE CYLINDER ROD	1
19			HYDRAULIC HOSE, SLAVE CLYLINDER CASE	1
20	03-085000		MULTI CINDUCTOR CABLE	A.R.
21	03-021400		LIMIT SWITCH	1
22	03-026400		LEVER ARM, LIMIT SWITCH	1
23	SBD-203772-9		ANCHOR BLOCK, CHAIN SHEAVE PIN	2
24	SAD-203763-9		PIN, FRONT CHAIN SHEAVE	1
25	SCD-203802-5		SHEAVE, FRONT CHAIN	1
26	08-009000		SLEVE BEARING (DRILL GREASE HOLE AT ASSEMBLY)	3
27	SAD-200629-9		GUARD PLATE	1
28	SBW-204198-6		CHAIN ANCHOR BLOCK	1
29			RETAINER PLATE	1
30	SBD-201293-3		SLIDER PAD, CHAIN ANCHOR	1
31	SBA-204648-4		SIDE SLIDER PAD	8
33	08-002200		FLANGE BEARING	2
34	SCW-209749-9		CHAIN ANCHOR BRACKET	1
35	SBD-203808-5		CHAIN ADJUSTING SCREW	2
36	SBD-206980-3		PIN, REAR CHAIN SHEAVE	1
37	SCD-203803-0		SHEAVE, REAR CHAIN	2
38	SAD-203762-4		CHAIN ANCHOR PIN, 4" LG. (NOT SHOWN)	2
39	SAD-203768-4		CHAIN ANCHOR PIN, 2" LG. (NOT SHOWN)	3
40	07-070305		COTTER KEY, CHAIN PIN (NOT SHOW)	10

DESCRIPTION	PART NO.
BOOM ASSEMBLY	CAA-209814-6

B3.19



1285/1185

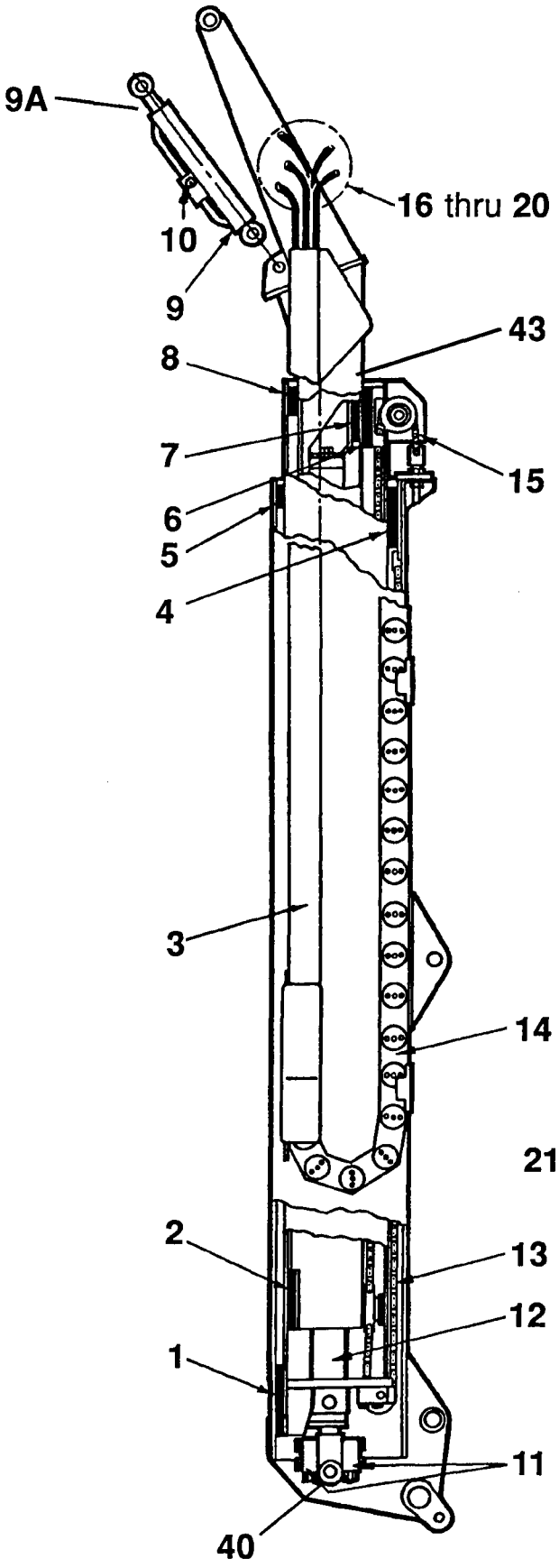
DESCRIPTION	PART NO.
BOOM ASSEMBLY	CAA-209814-6

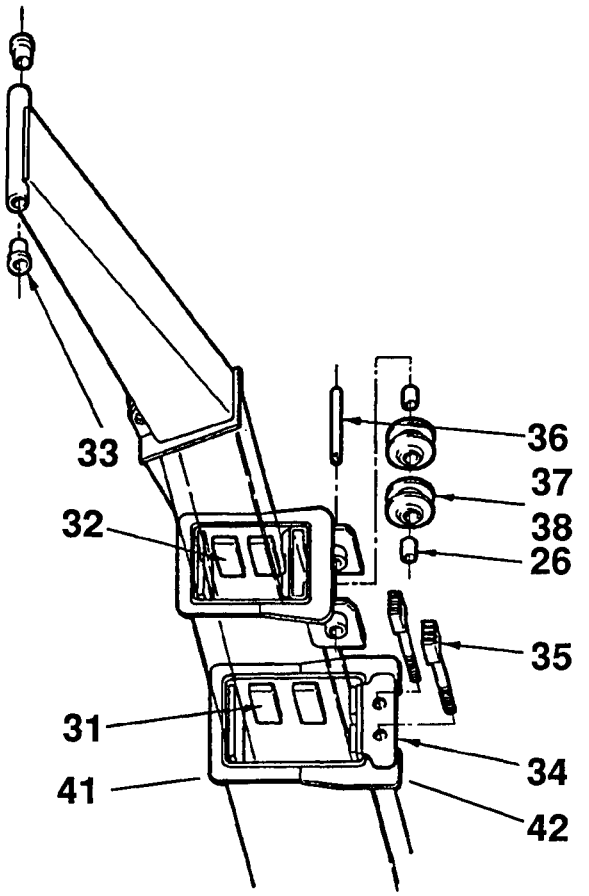
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2083614		PAD, WEAR (mid bom at top-front)	1
2	2043289		PAD, WEAR (tip boom at top-front)	1
3	2136300		ANCHOR, MOVING	1
4	2083717		PAD, WEAR (base boom at rear-bottom)	1
5	2088600		PAD, WEAR (base boom at rear-top)	1
6	2118320		PAD, WEAR (mid boom at rear-bottom)	1
7	2012933		PAD, WEAR (telescope cylinder)	1
8	2088644		PAD, WEAR (mid boom at rear-top)	1
9	SEE INDEX	D20.14	CYLINDER, SLAVE LEVEL	1
9A	10-040900		BOOT, SLAVE LEVEL CYLINDER	1
10	SEE INDEX	D21.01	VALVE, HOLDING (slave level cylinder)	2
11	01-002400		VALVE, HOLDING (telescope cylinder)	2
12	SEE INDEX	D19.33	CYLINDER, TELESCOPE	1
13	08-011000		CHAIN, LEAF (front-inside)	1
14	SEE INDEX	F03.34	HOSE TRACK	1
15	08-014200		CHAIN, LEAF (rear-outside)	2
16			HOSE, HYDRAULIC (HPC return)	1
17			HOSE, HYDRAULIC (HPC pressure)	1
18			HOSE, HYDRAULIC (slave cylinder rod)	1
19			HOSE, HYDRAULIC (slave cylinder case)	1
20	03-085700		CABLE, MULTI-CONDUCTOR	1
21	03-025600		SWITCH, LIMIT	1
22	03-026000		LEVER ARM, LIMIT SWITCH	1
23	2037729		BLOCK, ANCHOR (chain sheave pin)	2
24	2037639		PIN, SHEAVE (front chain)	1
25	2038025		SHEAVE, CHAIN	1
26	08-009000		BEARING, SLEEVE (drill grease hole at assembly)	3
27	2119510		PLATE, GUARD	1
28	2041986		BLOCK, CHAIN ANCHOR	1
29	2012933		PAD, WEAR (chain anchor)	1
30	2059031		PLATE, RETAINER	1
31	2070357		PAD, WEAR (side)	8
33	08-002200		BEARING, FLANGE (1.25" I.D. X 1.5-2" O.D. X 1.5")	2
34	2054258		BRACKET, CHAIN ANCHOR	1
35	2051228		SCREW, CHAIN ADJUSTING	2
36	2055758		PIN, SHEAVE (rear chain)	1
37	2038030		SHEAVE, REAR CHAIN	2
38	2037839		SPACER, CHAIN SHEAVE	1
39	2037868		SPACER, CHAIN SHEAVE	1
40	2067744		PIN, TELESCOPE CYLINDER	1
41	2158770		GUIDE, MOVING ANCHOR	1
42	2102190		GUIDE, BOTTOM MOVING ANCHOR	1
43	2109640		BOOM BRUSH KIT	1

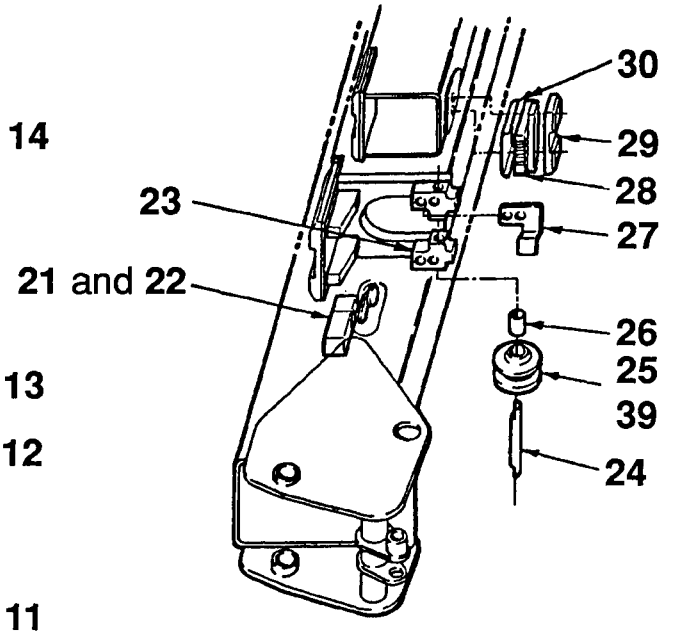
TITLE: BOOM ASSEMBLY

PLATE NO. B03.29 | **SIMON AERIALS INC.** ORIGIN 06/04/90 | PART NO.





FRONT VIEW OF BOOM ASSEMBLY



REAR VIEW OF BOOM ASSEMBLY

TITLE	BOOM ASSEMBLY		
SIMON AERIALS INC. ORIGIN 06/04/90		PART NO.	PLATE NO. B03.29

PARTS LIST

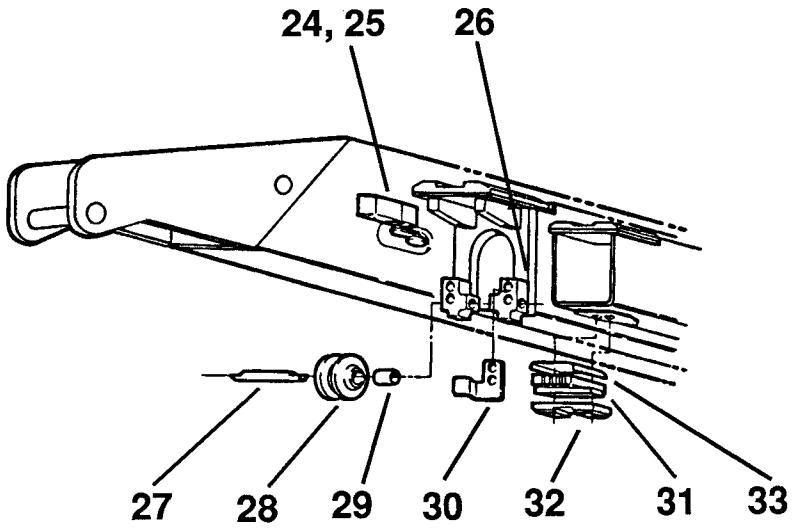
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2083614		PAD, SLIDER (mid boom at top-front)	1
2	2043289		PAD, SLIDER (tip boom at top-front)	1
3	2136300		ANCHOR, MOVING	1
4	2083717		PAD, SLIDER (base boom at rear-bottom)	1
5	2088600		PAD, SLIDER (base boom at rear-top)	1
6	2118320		PAD, SLIDER (mid boom at rear-bottom)	1
7	2012933		PAD, SLIDER (telescope cylinder)	1
8	2088644		PAD, SLIDER (mid boom at rear-top)	1
9	SEE INDEX	D20.--	CYLINDER, SLAVE LEVEL	1
10	2068879		PIN, SLAVE CYLINDER ROD END	1
11	2068884		PIN, SLAVE CYLINDER PIVOT	1
12	2080459		PIN, RETAINER	1
13	SEE INDEX	D21.--	VALVE, HOLDING (slave level cylinder)	2
14	01-002400		VALVE, HOLDING (telescope cylinder)	2
15	SEE INDEX	D19.--	CYLINDER, TELESCOPE	1
16	08-011000		CHAIN, LEAF (front-inside)	1
17	SEE INDEX	F03.34	HOSE TRACK	1
18	08-014200		CHAIN, LEAF (rear-outside)	2
19			HOSE, HYDRAULIC (HPC return)	1
20			HOSE, HYDRAULIC (HPC pressure)	1
21			HOSE, HYDRAULIC (slave cylinder rod)	1
22			HOSE, HYDRAULIC (slave cylinder case)	1
23	03-085700		CABLE, MULTI-CONDUCTOR	1
24	03-025600		SWITCH, LIMIT	1
25	03-026000		LEVER ARM, LIMIT SWITCH	1
26	2037729		BLOCK, ANCHOR (chain sheave pin)	2
27	2037639		PIN, SHEAVE (front chain)	1
28	2038025		SHEAVE, CHAIN	1
29	08-009000		BEARING, SLEEVE (drill grease hole at assembly)	3
30	2119510		PLATE, GUARD	1
31	2041986		BLOCK, CHAIN ANCHOR	1
32	2059031		PLATE, RETAINER	1
33	2012933		PAD, SLIDER (chain anchor)	1
34	2070357		PAD, SLIDER (side)	8
35	08-002200		BEARING, FLANGE (1.25" I.D. X 1.5-2" O.D. X 1.5")	2
36	2054258		BRACKET, CHAIN ANCHOR	1
37	2038085		SCREW, CHAIN ADJUSTING	2
38	2069803		PIN, SHEAVE (rear chain)	1
39	2038030		SHEAVE, REAR CHAIN	2
40	2037624		PIN, CHAIN ANCHOR 4" LONG (not shown)	2
41	2037684		PIN, CHAIN ANCHOR 2" LONG (not shown)	3
42	07-070305		COTTER KEY, CHAIN PIN (not shown)	10
43	01-091300		VALVE, REGENERATING (not shown)	1

TITLE: BOOM ASSEMBLY

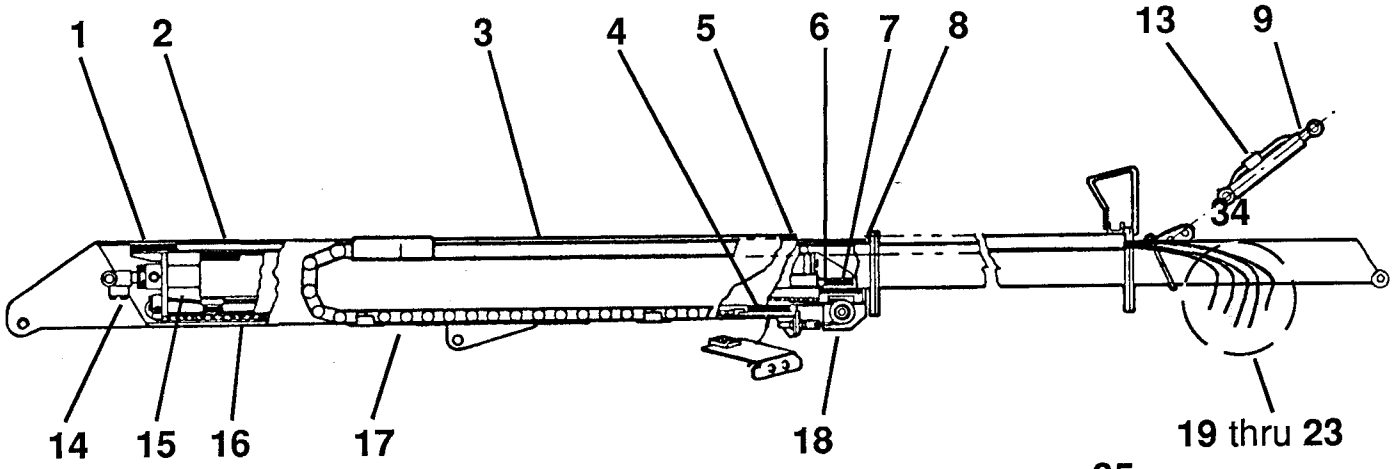
PLATE NO. B03.30

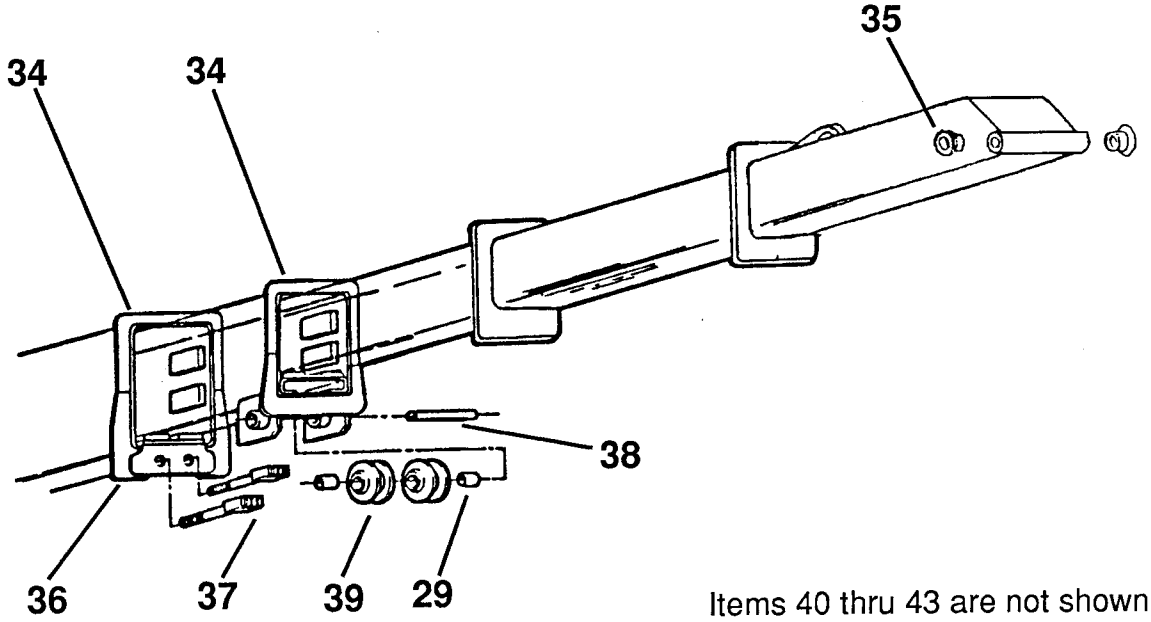
SIMON AERIALS INC. REV. 11/29/90

PART NO.



REAR VIEW OF BOOM ASSEMBLY





Items 40 thru 43 are not shown.

FRONT VIEW OF BOOM ASSEMBLY

TITLE	BOOM ASSEMBLY		
SIMON AERIALS INC. REV. 11/29/90		PART NO.	PLATE NO. B03.30

PARTS LIST

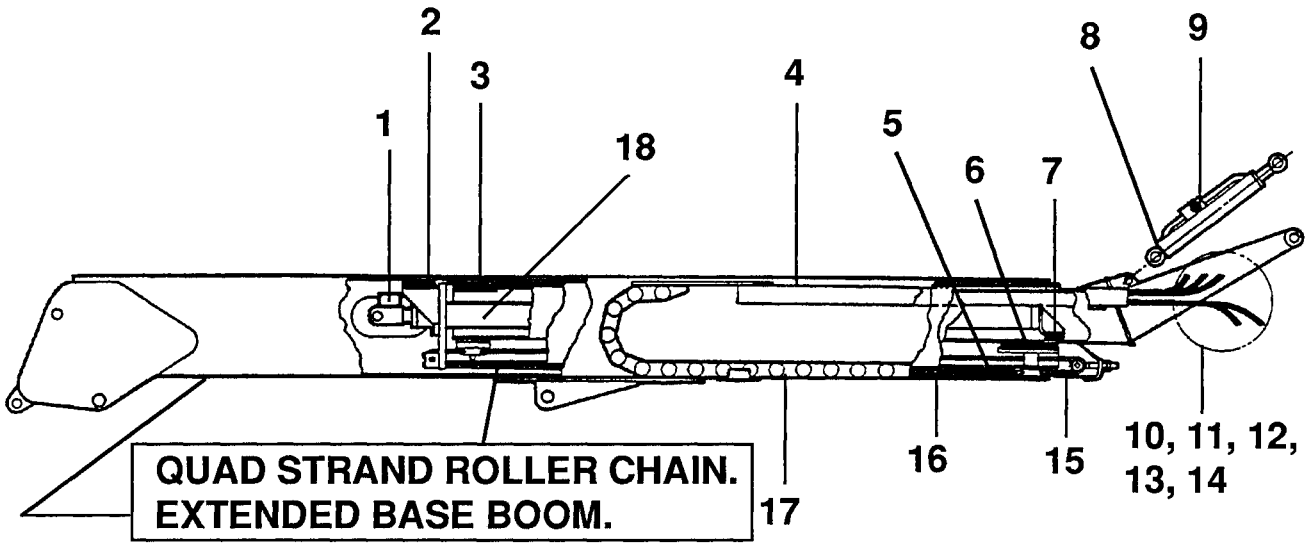
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-003600		VALVE, EXTEND CYLINDER HOLDING	1
2			PAD, MID BOOM WEAR (Top front) (Slider pad)	1
3			PAD, TIP BOOM WEAR (Top front) (Slider pad)	1
4			ANCHOR, MOVING	1
5			PAD, BASE BOOM WEAR (Bottom rear) (Slider pad)	2
6			PAD, MID BOOM WEAR (Bottom rear) (Slider pad)	1
7			PAD, EXTEND CYLINDER WEAR (Slider pad)	1
8	See index	D20.--	CYLINDER, SLAVE LEVELING	1
9	See index	D21.--	VALVE, LEVELING CYLINDER HOLDING	1
10			HOSE, HYDRAULIC (HPC Pressure)	1
11			HOSE, HYDRAULIC (HPC Return)	1
12			HOSE, HYDRAULIC (Slave cylinder rod end)	1
13			HOSE, HYDRAULIC (Slave cylinder case end)	1
14	03-085000		CABLE, ELECTRICAL (24 conductor)	115 ft.
15	08-003000		CHAIN, REAR (Outside)	1
16	08-002900		CHAIN, FRONT (Inside)	1
17	See index	F03.--	TRACK, HOSE	1
18	See index	D19.--	CYLINDER, EXTEND	1
19	03-021400		SWITCH, LIMIT	1
20	03-026000		ARM, LIMIT SWITCH	1
21	2017891		BLOCK, ANCHOR (Chain sprocket pin)	2
22	2017884		BLOCK, CHAIN ANCHOR (front)	1
23	2047023		SPROCKET ASSEMBLY (includes Bearing, item 25)	4
24	2011679		PIN, FRONT SPROCKET	1
25	08-004300		BEARING, SLEEVE (also part of Sprocket Ass'y., item 23)	4
26			PAD, BOOM WEAR (Side) (Slider pad)	6
27	08-002200		BUSHING, FLANGED (Platform pivot)	2
28	2017994		PIN, REAR SPROCKET	1
29	2017907		SCREW, CHAIN TAKE UP	2
30	2017884		BLOCK, CHAIN ANCHOR (rear)	1
31	08-004600		LINK ASSEMBLY, MASTER (not shown)	4

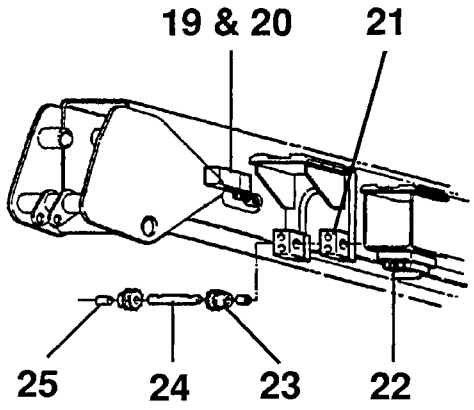
TITLE: BOOM ASSEMBLY

PLATE NO. B03.33

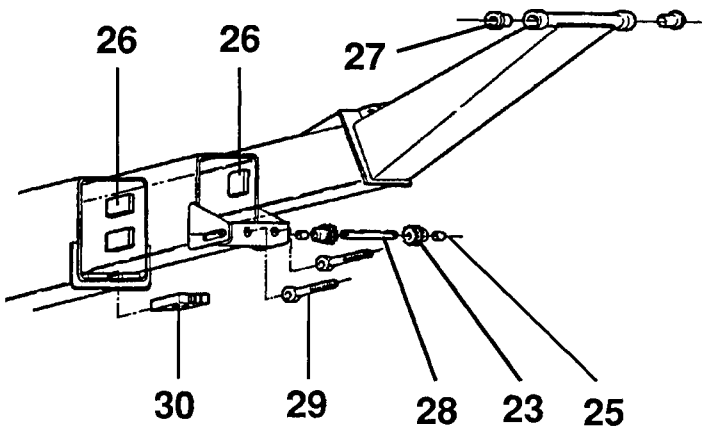
SIMON AERIALS INC. NEW10/30/90

PART NO.





FRONT VIEW-BOOM ASSEMBLY



REAR VIEW-BOOM ASSEMBLY

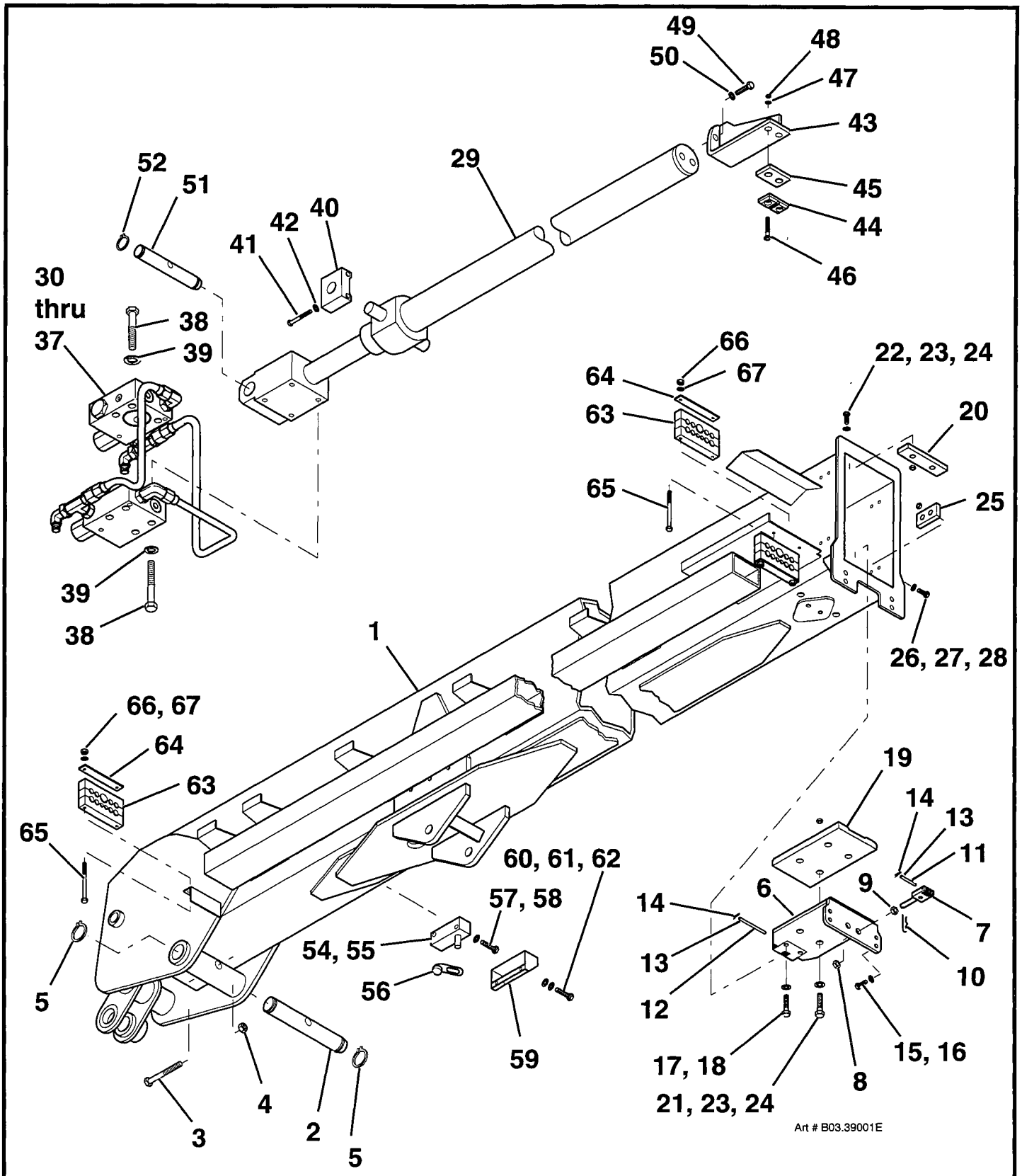
TITLE	BOOM ASSEMBLY		
SIMON AERIALS INC. NEW10/30/90		PART NO.	PLATE NO. B03.33

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	211 8710		BOOM WELDMENT, BASE	1
2	206 9146		PIN, BOOM PIVOT (2-1/4" x 16-1/2")	1
3	07-004102		CAP SCREW, HEX HEAD (1/2"-13 x 4-1/2", Grade 8)	1
4	07-058400		NUT, LOCK (1/2"-13, Grade 8)	1
5	08-043200		RING, RETAINING (2-1/4")	2
6	209 7499		BRACKET, CHAIN AND WEAR PAD MOUNTING (rear)	1
7	203 8085		ANCHOR, CHAIN (adjustable)	2
8	07-040123		NUT, HEX (7/8"-14, Grade 5)	2
9	07-047123		NUT, HEX JAM (7/8"-14, Grade 5)	2
10	07-070506		PIN, COTTER (1/8" x 1-1/4")	2
11	203 7684		PIN, LEAF CHAIN ANCHOR (1/4" x 2", for 5/8" pitch chain)	2
12	203 7624		PIN, LEAF CHAIN ANCHOR (1/4" x 4", for 5/8" pitch chain)	1
13	07-060014		WASHER, FLAT (1/4", SAE)	6
14	07-070305		PIN, COTTER (1/16" x 1")	6
15	07-003127		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/2", Grade 5)	4
16	07-065021		WASHER, HELICAL LOCK (5/8")	4
17	204 1317		SCREW (modified 3/4"-10 x 1-1/2", Grade 8 socket head)	2
18	07-065022		WASHER, HELICAL LOCK (3/4")	2
19	208 3717		PAD, WEAR (Base boom, bottom) (10" x 7" [254 x 178 mm])	1
20	208 8600		PAD, WEAR (Base boom, rear, top) (8" x 4" [203 x 102 mm])	1
21	07-003126		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/4", Grade 5)	4
22	07-003125		CAP SCREW, HEX HEAD (5/8"-11 x 1", Grade 5)	2
23	07-065021		WASHER, HELICAL LOCK (5/8")	6
24	07-047021		NUT, HEX JAM (5/8"-11, Grade 5)	6
25	207 0357		PAD, SIDE WEAR (4-1/2" x 2-1/2" [114 x 63.5 mm])	4
26	07-003084		CAP SCREW, HEX HEAD (1/2"-13 x 7/8", Grade 5)	8
27	07-065018		WASHER, HELICAL LOCK (1/2")	8
28	07-047018		NUT, HEX JAM (1/2"-13, Grade 5)	8
29	See index	D19.--	CYLINDER, TELESCOPE	1
30	01-002400		VALVE, HOLDING	2
31	06-044400		90° ELBOW, STRAIGHT THREAD (4-6 C50X-S)	2
32	06-091800		REDUCER/ EXPANDER (16-8 F5O G5-S)	2
33	06-050100		BRANCH TEE, MALE "O"-RING (8 S50X-S)	2
34	06-051600		90° ELBOW, SWIVEL NUT (8 C6X-S)	2
35	06-060200		REDUCER, TUBE END (8-4 TRTX-S)	2
36	06-057600		NUT, TUBE (8 BTX-S)	2
37	351 0840		TUBE ASSEMBLY	2
38	07-003091		CAP SCREW, HEX HEAD 1/2"-13 x 2-1/2", Grade 5)	8
39	07-065018		WASHER, HELICAL LOCK (1/2")	8
40	204 2138		BLOCK, TELESCOPE CYLINDER	2
41	07-004139		CAP SCREW, HEX HEAD (5/8"-11 x 5", Grade 8)	4
42	07-065021		WASHER, HELICAL LOCK (5/8")	4

TITLE BOOM ASSEMBLY, MP 80 (STRAIGHT TIP) (PLATE 1 OF 6)

PLATE NO. B03.39 | **SIMON AERIALS INC.** NEW 23 MAR., 1995 | **PART NO.** 352 8510

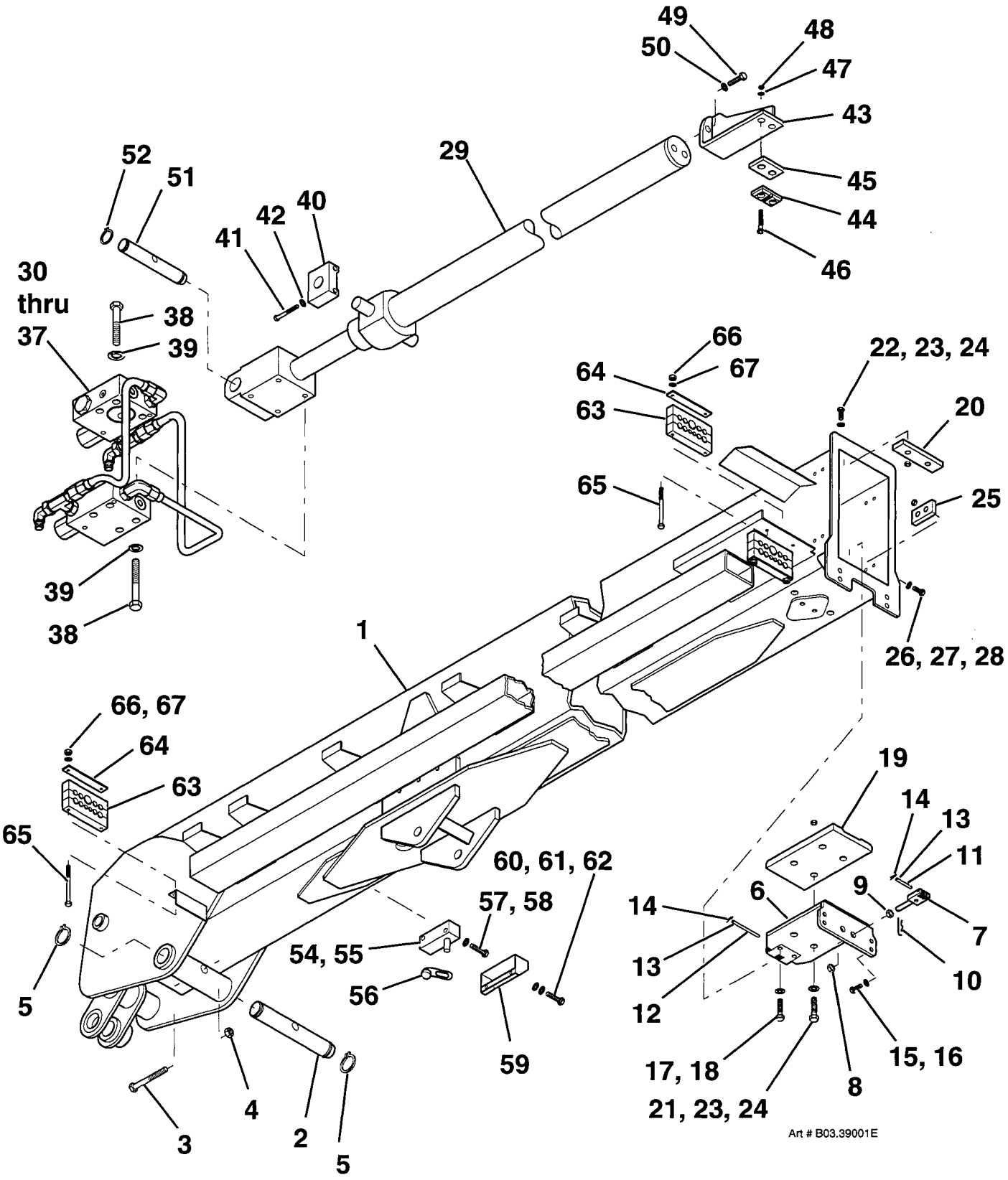


TITLE	BOOM ASSEMBLY, MP 80 (STRAIGHT TIP) (PLATE 1 OF 6)		
SIMON AERIALS INC. NEW 23 MAR., 1995		PART NO. 352 8510	PLATE NO. B03.39

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
43	205 8713		BRACKET, TELESCOPE CYLINDER WEAR PAD	1
44	201 2933		PAD, TELESCOPE CYLINDER WEAR (5-1/4" x 3" [133 x 76 mm])	1
45	215 4460		SPACER, WEAR PAD	1
46	07-090129		CAP SCREW, FLAT HEAD (5/8"-11 x 2-3/4", Grade 5)	2
47	07-065021		WASHER, HELICAL LOCK (5/8")	2
48	07-040021		NUT, HEX (5/8"-11, Grade 5)	2
49	07-003085		CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5)	2
50	07-065018		WASHER, HELICAL LOCK (1/2")	2
51	206 7744		PIN, TELESCOPE CYLINDER (1-1/2" x 12-15/16")	1
52	08-040900		RING, RETAINING (1-1/2")	2
53	351 8520		SWITCH ASSEMBLY, LIMIT (double pole)	1
54	03-025600		SWITCH, LIMIT (with two normally open and two normally closed contacts)	1
55	03-041000		GRIP, CORD (1/2")	1
56	03-026000		ARM, LIMIT SWITCH	1
57	07-008354		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8)	2
58	07-065011		WASHER, HELICAL LOCK	2
59	200 9322		COVER, LIMIT SWITCH	1
60	07-003022		CAP SCREW, HEX HEAD (5/16"-18 x 5/8")	2
61	07-065015		WASHER, HELICAL LOCK (5/16")	2
62	07-062014		WASHER, FLAT (1/4")	2
63			CLAMP, HOSE	5
	204 3199		6 hole (for "Electro-Proportional" or "Hydraport" units)	
	213 0670		17 hole (for "Full Hydraulic" units)	
64			BAR, HOSE CLAMP COMPRESSION (optional)	1
	218 1180		without countersink	
	218 1190		with countersink	
65	07-003055		CAP SCREW, HEX HEAD (3/8"-16 x 3-1/2", Grade 5)	6
	07-090800		CAP SCREW, FLAT HEAD (3/8"-16 x 4-3/4", Grade 5)	2
66	07-050016		NUT, TOP LOCK (3/8"-16, Grade 5)	8
67	07-062016		WASHER, FLAT (3/8")	4
68	07-040015		NUT, HEX (5/16"-18 x 5/8")	2
69	07-065015		WASHER, HELICAL LOCK (5/16")	2
70	07-062015		WASHER, FLAT (5/16")	2

TITLE	BOOM ASSEMBLY, MP 80 (STRAIGHT TIP) (PLATE 2 OF 6)			
PLATE NO.	B03.39	**SIMON AERIALS INC.**	NEW 23 MAR., 1995	PART NO. 352 8510

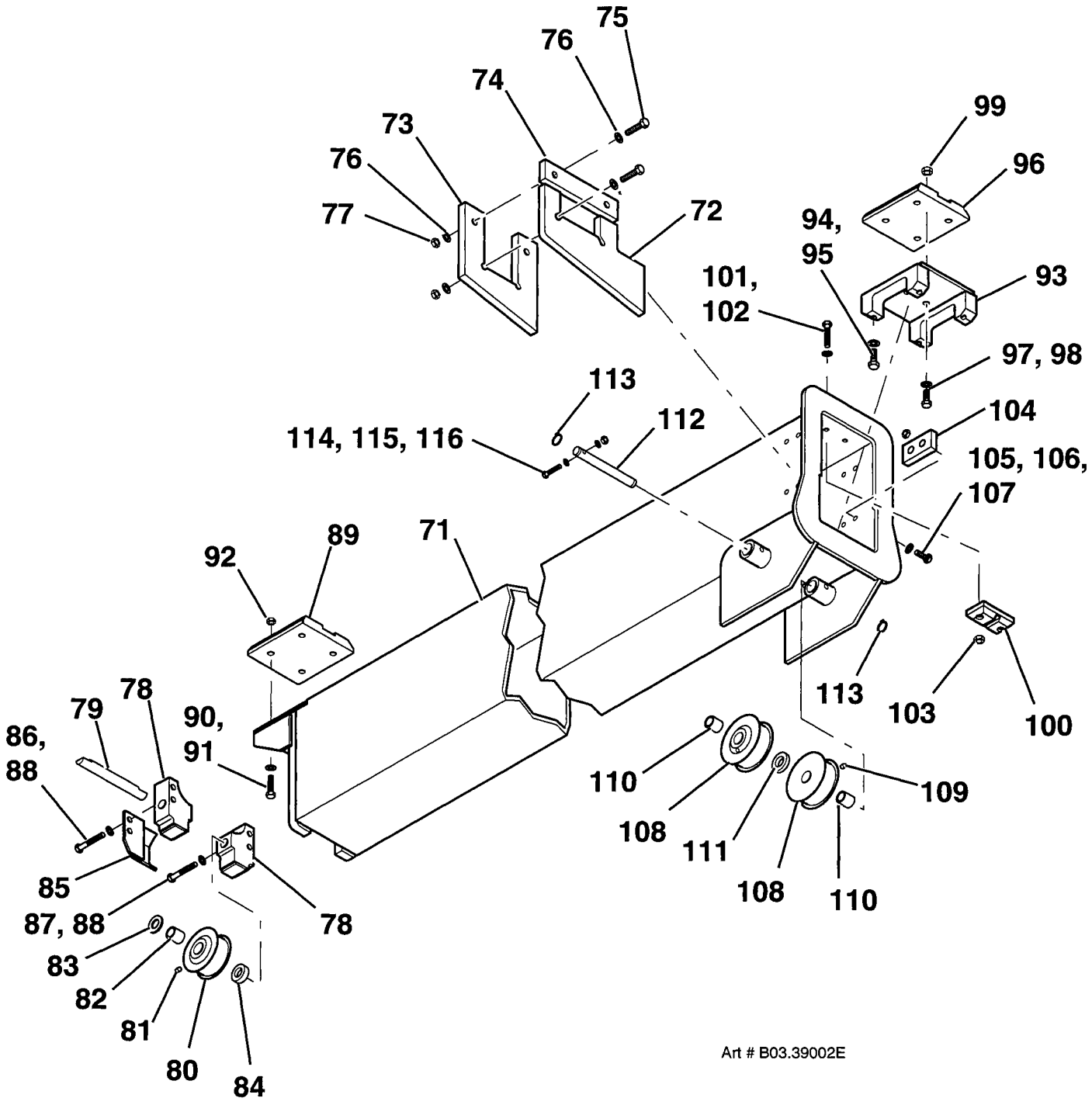


TITLE	BOOM ASSEMBLY, MP 80 (STRAIGHT TIP) (PLATE 2 OF 6)		
SIMON AERIALS INC. NEW 23 MAR., 1995	PART NO. 352 8510	PLATE NO. B03.39	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
71	211 8690		BOOM WELDMENT, MID	1
72	231 2860		BRACKET, MOVING ANCHOR GUIDE	1
73	210 2190		GUIDE, MOVING ANCHOR (bottom/ side)	1
74	215 8770		GUIDE, MOVING ANCHOR (top)	1
75	07-003091		CAP SCREW, HEX HEAD (1/2"-13 x 2-1/2", Grade 5)	4
76	07-062018		WASHER, FLAT (1/2")	8
77	07-058400		NUT, HEX LOCK (1/2"-13, Grade 5)	4
78	218 5540		BLOCK, CHAIN SHEAVE MOUNTING	2
79	203 7639		PIN, CHAIN SHEAVE (1" x 9")	1
80	203 8025		SHEAVE (3-1/4" O.D., for 5/8 pitch leaf chain)	1
81	08-053100		FITTING, GREASE (1/4"-28, straight)	1
82	08-009000		BEARING, SLEEVE	1
83	07-060024		WASHER, FLAT (1", SAE)	1
84	203 7868		SPACER, CHAIN SHEAVE	1
85	211 9510		RETAINER WELDMENT, CHAIN	1
86	07-004133		CAP SCREW, HEX HEAD (5/8"-11 x 3", Grade 8)	2
87	07-004134		CAP SCREW, HEX HEAD (5/8"-11 x 3-1/4", Grade 8)	2
88	07-065021		WASHER, HELICAL LOCK (5/8")	4
89	208 3614		PAD, WEAR (Mid boom, top, front) (9-3/8" x 8" [238 x 203 mm])	1
90	07-003125		CAP SCREW, HEX HEAD (5/8"-11 x 1", Grade 5)	2
91	07-065021		WASHER, HELICAL LOCK (5/8")	2
92	07-047021		NUT, HEX JAM (5/8"-11, Grade 5)	2

TITLE	BOOM ASSEMBLY, MP 80 (STRAIGHT TIP) (PLATE 3 OF 6)		
PLATE NO. B03.39	**SIMON AERIALS INC.** NEW 23 MAR., 1995	PART NO. 352 8510	

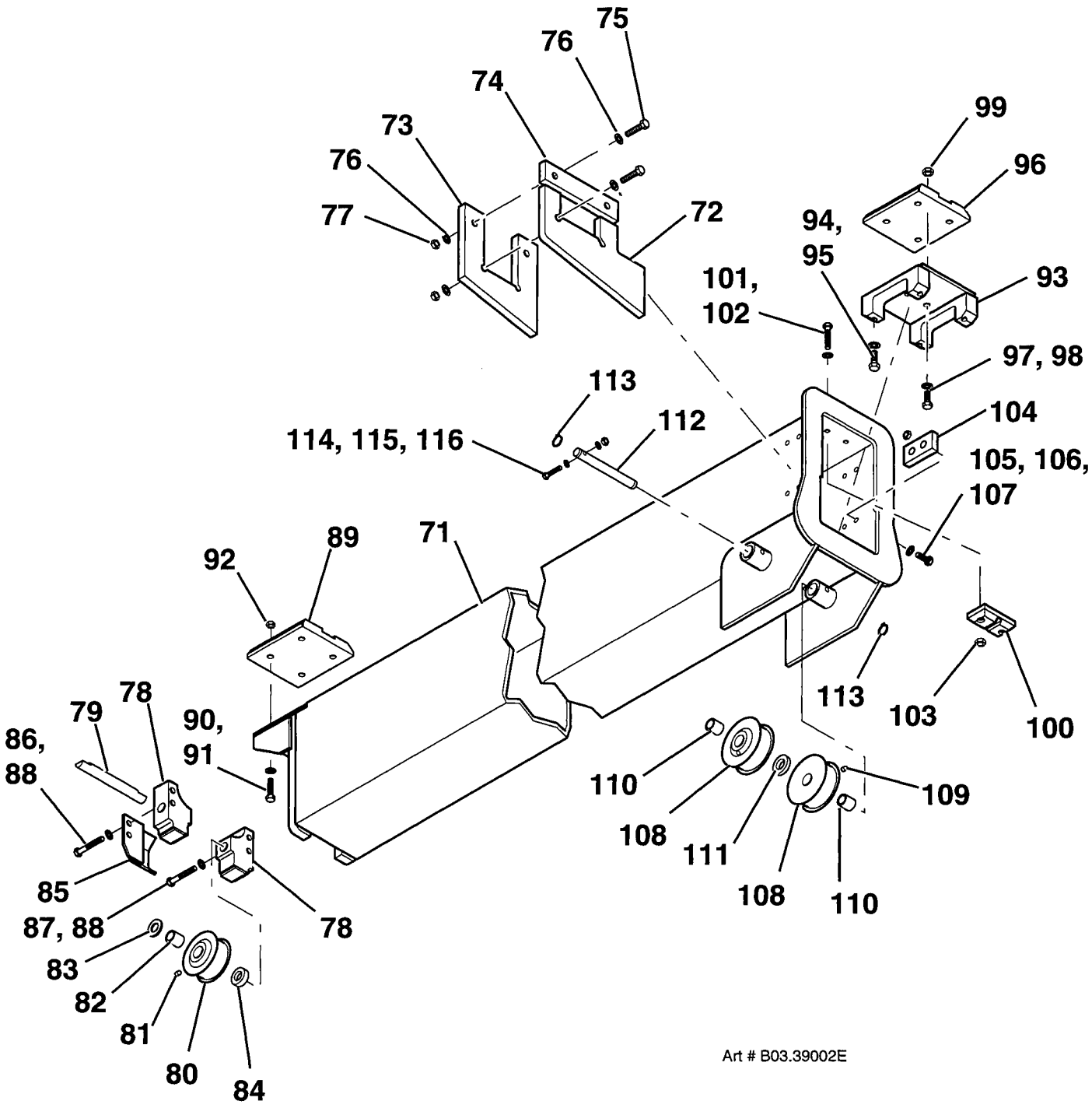


TITLE	BOOM ASSEMBLY, MP 80 (STRAIGHT TIP) (PLATE 3 OF 6)		
SIMON AERIALS INC. NEW 23 MAR., 1995		PART NO. 352 8510	PLATE NO. B03.39

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
93	210 6610		BRACKET, WEAR PAD	1
94	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4")	4
95	07-065018		WASHER, HELICAL LOCK (1/2")	4
96	211 8320		PAD, WEAR (Mid boom, bottom, rear) (8" x 6-1/4" [203 x 159 mm])	1
97	07-008084		CAP SCREW, SOCKET HEAD (1/2"-13 x 7/8", Grade 8)	2
98	07-065018		WASHER, HELICAL LOCK (1/2")	2
99	07-047018		NUT, HEX JAM (1/2"-13, Grade 5)	2
100	208 8644		PAD, WEAR (Mid boom, top, rear) (7" x 4" [178 x 102 mm])	1
101	07-003126		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/4", Grade 5)	2
102	07-065021		WASHER, HELICAL LOCK (5/8")	2
103	07-047021		NUT, HEX JAM (5/8"-11, Grade 5)	2
104	207 0357		PAD, SIDE WEAR (4-1/2" x 2-1/2" [114 x 63.5 mm])	4
105	07-003084		CAP SCREW, HEX HEAD (1/2"-13 x 7/8", Grade 5)	8
106	07-065018		WASHER, HELICAL LOCK (1/2")	8
107	07-047018		NUT, HEX JAM (1/2"-13, Grade 5)	8
108	203 8030		SHEAVE (4" O.D., for 5/8 pitch leaf chain)	2
109	08-053100		FITTING, GREASE (1/4"-28. straight)	2
110	08-009000		BEARING, SLEEVE	2
111	203 7839		SPACER, CHAIN SHEAVE (1/2")	1
112	206 9803		PIN, CHAIN SHEAVE (1" x 12-3/16")	1
113	08-040600		RING, RETAINING (1")	2
114	07-003052		CAP SCREW, HEX HEAD (3/8"-16 x 2-3/4", Grade 5)	1
115	07-062016		WASHER, FLAT (3/8")	2
116	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	1

TITLE BOOM ASSEMBLY, MP 80 (STRAIGHT TIP) (PLATE 4 OF 6)



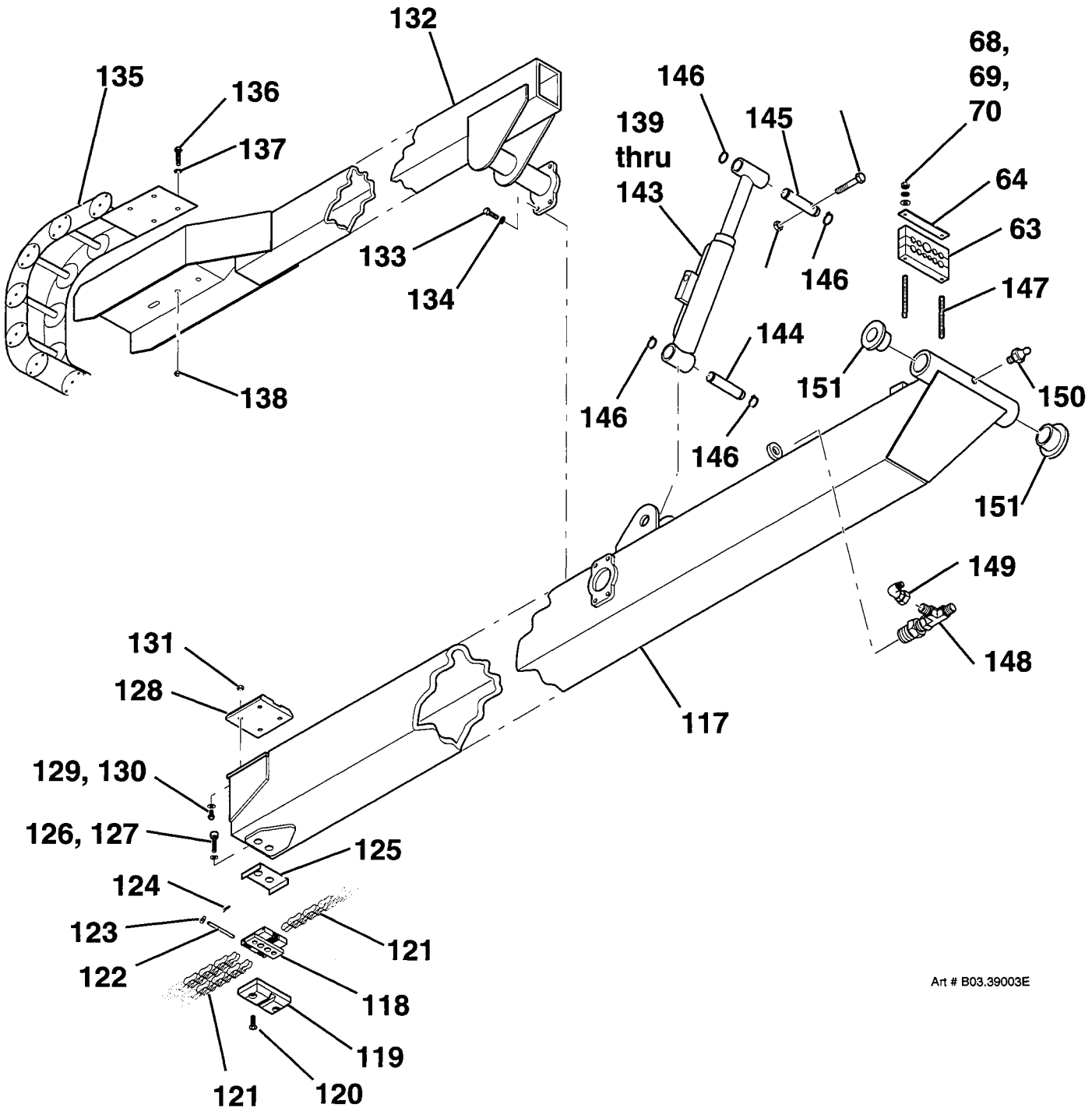
TITLE	BOOM ASSEMBLY, MP 80 (STRAIGHT TIP) (PLATE 4 OF 6)		
SIMON AERIALS INC.	NEW 23 MAR., 1995	PART NO. 352 8510	PLATE NO. B03.39

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
117	211 7280		BOOM WELDMENT, TIP	1
118	204 1986		ANCHOR, CHAIN	1
119	201 2933		PAD, WEAR (Chain anchor) (5-1/4" x 3" [133 x 76 mm])	1
120	07-005125		CAP SCREW, FLAT HEAD (5/8"-11 x 1", Grade 5)	2
121	08-011000		CHAIN, LEAF (BL 566, 5/8" pitch, 557 P)	3
122	203 7624		PIN, LEAF CHAIN ANCHOR (1/4" x 4", for 5/8" pitch chain)	2
123	07-060014		WASHER, FLAT (1/4", SAE)	4
124	07-070305		PIN, COTTER (1/16" x 1")	4
125	205 9031		PLATE, ANCHOR CHAIN BLOCK LOCKING	1
126	211 2340		SCREW (modified 3/4"-10 x 2-1/4", Grade 8 socket head)	2
127	07-065022		WASHER, HELICAL LOCK (3/4")	2
128	204 3289		PAD, WEAR (Tip boom top front) (7-3/8" x 7" [187 x 178 mm])	1
129	07-003125		CAP SCREW, HEX HEAD (5/8"-11 x 1", Grade 5)	2
130	07-065021		WASHER, HELICAL LOCK (5/8")	2
131	07-047021		NUT, HEX JAM (5/8"-11, Grade 5)	2
132	215 5650		ANCHOR WELDMENT, MOVING	1
133	07-003125		CAP SCREW, HEX HEAD (5/8"-11 x 1", Grade 5)	4
134	07-065021		WASHER, HELICAL LOCK (5/8")	4
135	See Index . .	F03. - -	CARRIER, HOSE (Hose track)	1
136	07-017045		CAP SCREW, BUTTON HEAD (3/8"-16 x 1", Grade 5)	8
137	07-062016		WASHER, FLAT (3/8")	8
138	07-050016		NUT, TOP LOCK (3/8"-16, Grade 5)	8
139	350 1799		CYLINDER ASSEMBLY, SLAVE LEVEL	1
140	See Index . .	D20. - -	CYLINDER, SLAVE LEVEL	1
141	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F50X-S)	2
142	08-051300		FITTING, GREASE (1/8", 90°)	1
143	08-050500		FITTING, GREASE (1/8", 45°)	1
144	206 8879		PIN, SLAVE CYLINDER (1-1/4" x 7-3/8") (base end)	1
145	206 8884		PIN, SLAVE CYLINDER (1-1/4" x 4-7/8") (rod end)	1
146	08-040700		RING, RETAINING (1-1/4")	4
147	214 1160		ROD, THREADED (5/16"-18 x 2-1/2")	2
148	06-036300		TEE, BULKHEAD (4 WJJTX-S)	2
149	06-051300		ELBOW, SWIVEL NUT (4 C6X-S)	1
150	08-050000		FITTING, GREASE (1/8". straight)	1
151	08-002200		BEARING, FLANGED (1-1/4" I.D., 1-1/2" O.D., 2" flange)	2

TITLE BOOM ASSEMBLY, MP 80 (STRAIGHT TIP) (PLATE 5 OF 6)

PLATE NO. B03.39 | **SIMON AERIALS INC.** NEW 23 MAR., 1995 | PART NO. 352 8510



TITLE	BOOM ASSEMBLY, MP 80 (STRAIGHT TIP) (PLATE 5 OF 6)		
SIMON AERIALS INC. NEW 23 MAR., 1995		PART NO. 352 8510	PLATE NO. B03.39

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
152			HOSE, BOOM	
			(**Note:** Part number shown is for **hose only**, pre-cut to 105 Ft [32 M]. Must be trimmed to proper length after routing through boom hose track and carrier tubes, and prior to installation of correct **end fittings** as indicated on charts on opposite page):	
			for "**Electro-Proportional**" units:	
	05-087300		#4 hose (see chart on opposite page for correct fittings)	4
			for "**Hydraport**" units:	
	05-087300		#4 hose (see chart on opposite page for correct fittings)	2
	05-087400		#6 hose (see chart on opposite page for correct fittings)	2
			for "**Full Hydraulic**" units:	
	05-087300		#4 hose (see chart on opposite page for correct fittings)	5
	05-087400		#6 hose (see chart on opposite page for correct fittings)	4
	05-087500		#8 hose (see chart on opposite page for correct fittings)	2
	351 8510		HOSE ASSEMBLY (w/ fittings) (114" [2.90 M] long)	2
	351 4310		HOSE ASSEMBLY (w/ fittings) (126" [3.20 M] long)	1
	351 4320		HOSE ASSEMBLY (w/ fittings) (131" [3.33 M] long)	1
153	10-113200		PROTECTOR, HOSE (rubber, 6" x 9" x 1/8") (not shown)	3
154	03-085900		CABLE, ELECTRICAL (3 conductor, 12 AWG)	
			(Bulk item, order as needed. 105 Ft [32 M] needed here)	A.R.
155	03-488800		CABLE, ELECTRICAL (19 conductor, 16 AWG)	
			(Bulk item, order as needed. Two lengths, each 105 Ft [32 M] needed here)	A.R.
156	03-064700		TIE, CABLE (14-1/2" [368 mm] long)	8

TITLE	BOOM ASSEMBLY, MP 80 (STRAIGHT TIP) (PLATE 6 OF 6)		
PLATE NO. B03.39	**SIMON AERIALS INC.** NEW 23 MAR., 1995	PART NO.	352 8510

152 HOSE, BOOM, for "**Electro-Proportional**" units:

05-087300 #4 hose, pre-cut to 105 Ft [32 M] length (4)

For hoses marked:	Ferrule (for each end):	Fitting:	
		Lower end:	Upper end:
B and C	06-213100 (4M3 KPC-S)	06-144500 (4-6 FJX-S)	06-144300 (4-4 FJX-S)
P and R	06-213100 (4M3 KPC-S)	06-144500 (4-6 FJX-S)	06-144500 (4-6 FJX-S)

HOSE, BOOM, for "**Hydraport**" units:

05-087300 #4 hose, pre-cut to 105 Ft [32 M] length (2)

For hoses marked:	Ferrule (for each end):	Fitting:	
		Lower end:	Upper end:
B and C	06-213100 (4M3 KPC-S)	06-144500 (4-6 FJX-S)	06-144300 (4-4 FJX-S)

05-087400 #6 hose, pre-cut to 105 Ft [32 M] length (2)

For hoses marked:	Ferrule (for each end):	Fitting:	
		Lower end:	Upper end:
A and D	06-213200 (6PC1F-M2-S)	06-144900 (6-6 FJX-S)	06-144900 (6-6 FJX-S)

HOSE, BOOM, for "**Full Hydraulic**" units:

05-087300 #4 hose, pre-cut to 105 Ft [32 M] length (5)

For hoses marked:	Ferrule (for each end):	Fitting:	
		Lower end:	Upper end:
B and C	06-213100 (4M3 KPC-S)	06-144500 (4-6 FJX-S)	06-144300 (4-4 FJX-S)
7, 8, & 10	06-213100 (4M3 KPC-S)	06-144500 (4-6 FJX-S)	06-144500 (4-6 FJX-S)

05-087400 #6 hose, pre-cut to 105 Ft [32 M] length (4)

For hoses marked:	Ferrule (for each end):	Fitting:	
		Lower end:	Upper end:
D, E, R and 9	06-213200 (6PC1F-M2-S)	06-144900 (6-6 FJX-S)	06-144900 (6-6 FJX-S)

05-087500 #8 hose, pre-cut to 105 Ft [32 M] length (2)

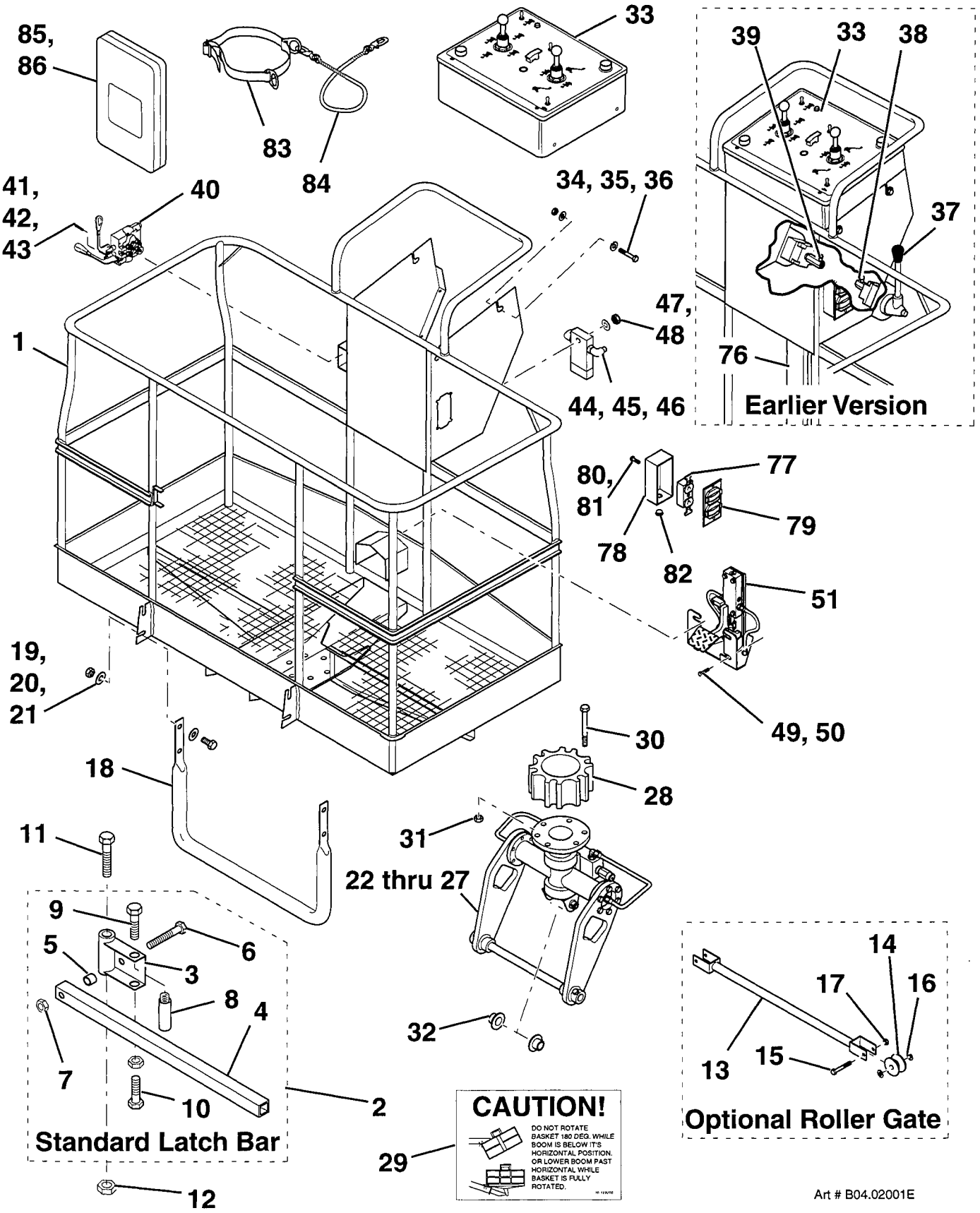
For hoses marked:	Ferrule (for each end):	Fitting:	
		Lower end:	Upper end:
P and R2	06-213300 (8M3 KPC-S)	06-145500 (8-8 FJX-S)	06-145500 (8-8 FJX-S)

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			PLATFORM WELDMENT	
			(Standard type, with Rotary Actuator mounted **under** floor)	1
			For **Hydraport** controls (with 2 "Joystick" controls):	
			Earlier style, with Platform Rotate valve on left, and Platform Level valve on right side of console:	
			First type, **with** separate hose channel under console:	
	205 6409		**MP** Series (36" x 72" [.91 M x 1.83 M])	
	205 6399		**MPN** Series (36" x 60" [.91 M x 1.52 M])	
			Second type, **without** separate hose channel:	
	211 7580		**MP** Series (36" x 72" [.91 M x 1.83 M]) (**Standard**)	
	211 7640		**MP** Series (36" x 96" [.91 M x 2.44 M]) (**Optional**)	
	211 7520		**MPN** Series (36" x 60" [.91 M x 1.52 M]) (**Standard**)	
			Later style, with Platform Rotate and Level valves both in box on outside of left side of console:	
	230 5280		**MP** Series (36" x 72" [.91 M x 1.83 M]) (**Standard**)	
	230 5310		**MP** Series (36" x 96" [.91 M x 2.44 M]) (**Optional**)	
	230 5250		**MPN** Series (36" x 60" [.91 M x 1.52 M]) (**Standard**)	
2	351 4160		BAR ASSEMBLY, LATCH (standard "Lift and Swing" style)	1
3	204 1724		PIVOT, DOOR	1
4	207 6577		BAR, LATCH	1
5	204 1649		SPACER, LATCH BAR PIVOT	1
6	07-003047		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 5)	1
7	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	1
8	08-010100		SPRING AND TUBE ASSEMBLY	1
9	210 8380		SPACER	1
10	07-003043		CAP SCREW, HEX HEAD (3/8"-16 x 3/4", Grade 5)	1
11	07-003096		CAP SCREW, HEX HEAD (1/2"-13 x 3-3/4", Grade 5)	1
12	07-058400		NUT, LOCK (1/2"-13, Grade 8)	1
13	219 8520		BAR, GATE (optional pull up "Roller Gate" style)	1
14	219 8510		ROLLER, PULL UP GATE	2
15	07-003053		CAP SCREW, HEX HD (3/8"-16 x 3", Grade 5)	2
16	07-062016		WASHER, FLAT (7/16")	4
17	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	2
18			STEP, PLATFORM	1
	214 6800		Standard version (17-1/2" [.44 M] high)	
	219 8710		Optional longer step (21-1/2" [.55 M] high)	
19	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	4
20	07-050016		NUT, LOCK (3/8"-16, Grade 5)	4
21	07-062016		WASHER, FLAT (7/16")	8

TITLE PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 4)

PLATE NO.			PART NO.
B04.02	**SIMON AERIALS INC.**	REV. 07 DEC., 1994	

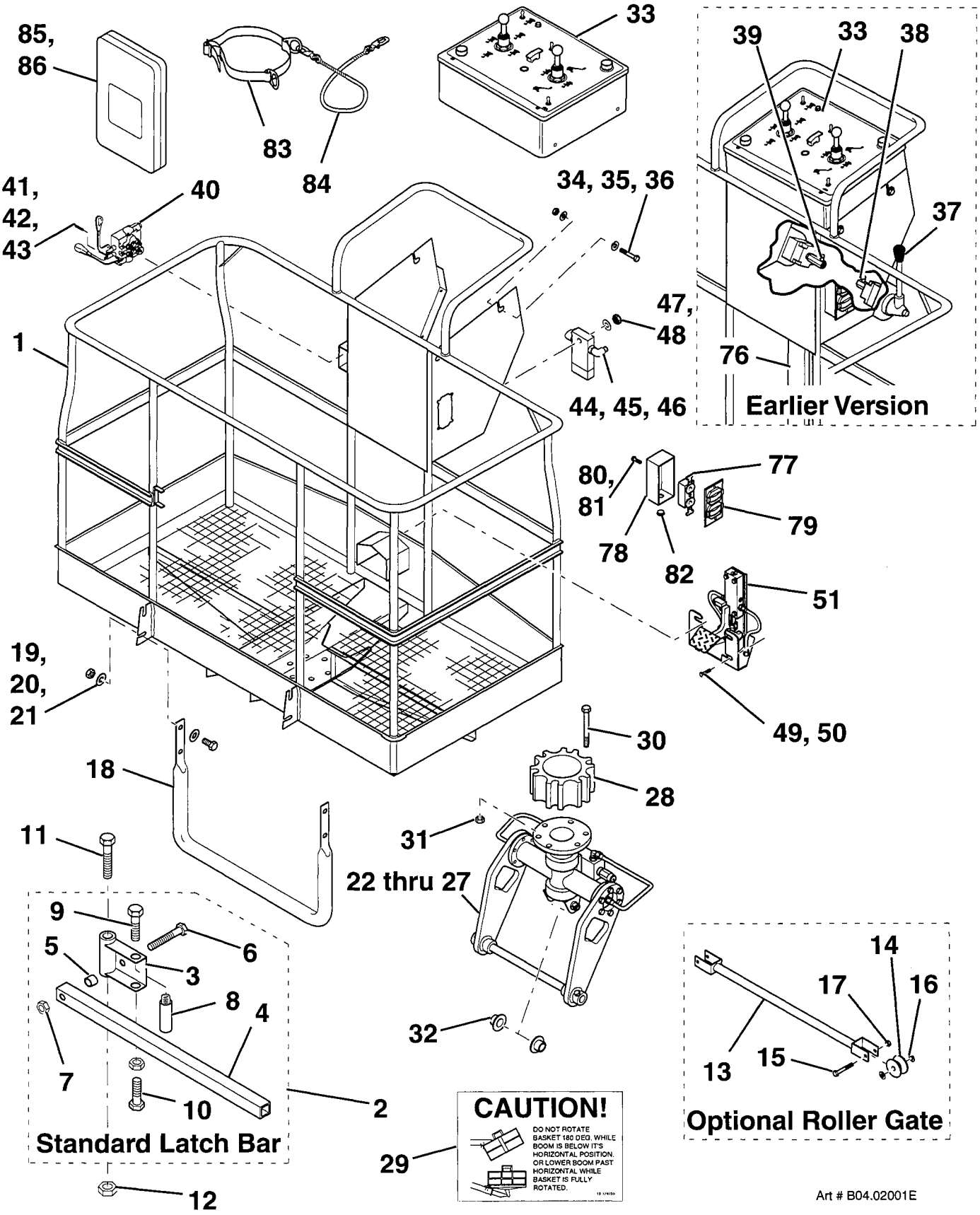


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 4)		
SIMON AERIALS INC.	REV. 07 DEC., 1994	PART NO.	PLATE NO. B04.02

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
22	See Index . .	D24. - -	ACTUATOR, ROTARY (Helical type, 180°) (includes pins)	1
23			PIN, PLATFORM PIVOT (1-1/4" x 20")	1
	210 2940		except Canada (Standard type, included with actuator)	1
	219 4480		CSA standards (Specify if this type is needed)	1
24			PIN, SLAVE CYLINDER (1-1/4" x 7-3/8") (Rod end)	
	206 8879		except Canada (Standard type, included with actuator)	1
	Call Simon		CSA standards (Specify if this type is needed)	1
25	01-001900		VALVE, DOUBLE LOCK	
			(Earlier versions. No cartridges protrude from block.)	1
26	01-202000		MANIFOLD, RELIEF/ CHECK VALVE	
			(Later versions. Two cartridges protrude from block.)	1
27	08-040700		RING, RETAINING (1-1/4")	4
28			SPACER, ROTARY ACTUATOR (for use with 96" platform)	1
	233 5380		Model MP 40 (4" [102 mm] thick)	
	233 5510		except Model MP40 (6" [152 mm] thick)	
29	10-129200		DECAL, "CAUTION, DO NOT ROTATE . . ." (found on some earlier versions having 96" platform, but no spacer)	1
30			CAP SCREW, HEX HEAD (1/2"-13, Grade 8)	6
	07-004089		2" long, for all except with 96" platform	
	07-004100		6" long, for **Model MP 40** with 96" platform	
	07-113400		8", long, for models with 96" platform **except MP 40**	
31	07-058400		NUT, LOCK (1/2"-13, Grade 8)	6
32	08-002200		BEARING, FLANGED (1-1/4" I.D., 1-1/2" O.D., 2" O.D. flange, 1-1/2" long) (later versions)	2
	08-002500		BEARING, SLEEVE (1-1/4" I.D., 1-5/8" O.D., 1" long) (earlier versions)	2
33	See Index . .	C08. - -	PLATFORM CONTROL CONSOLE ASSEMBLY	1
34	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	4
35	07-062016		WASHER, FLAT (3/8")	8
36	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	4
37	See Plate . .	D14. - -	VALVE, 4-WAY MANUAL (Platform level or rotate) (Earlier versions)	2
38	01-020800		VALVE, CHECK	1
39	01-000500		VALVE, NEEDLE	1
40	See Plate . .	D14. - -	VALVE, PLATFORM LEVEL AND ROTATE (Later versions)	1
41	07-003009		CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5)	2
42	07-060014		WASHER, FLAT (1/4", SAE)	2
43	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2

TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 4)	
PLATE NO. B04.02	**SIMON AERIALS INC.** REV. 07 DEC., 1994	PART NO.



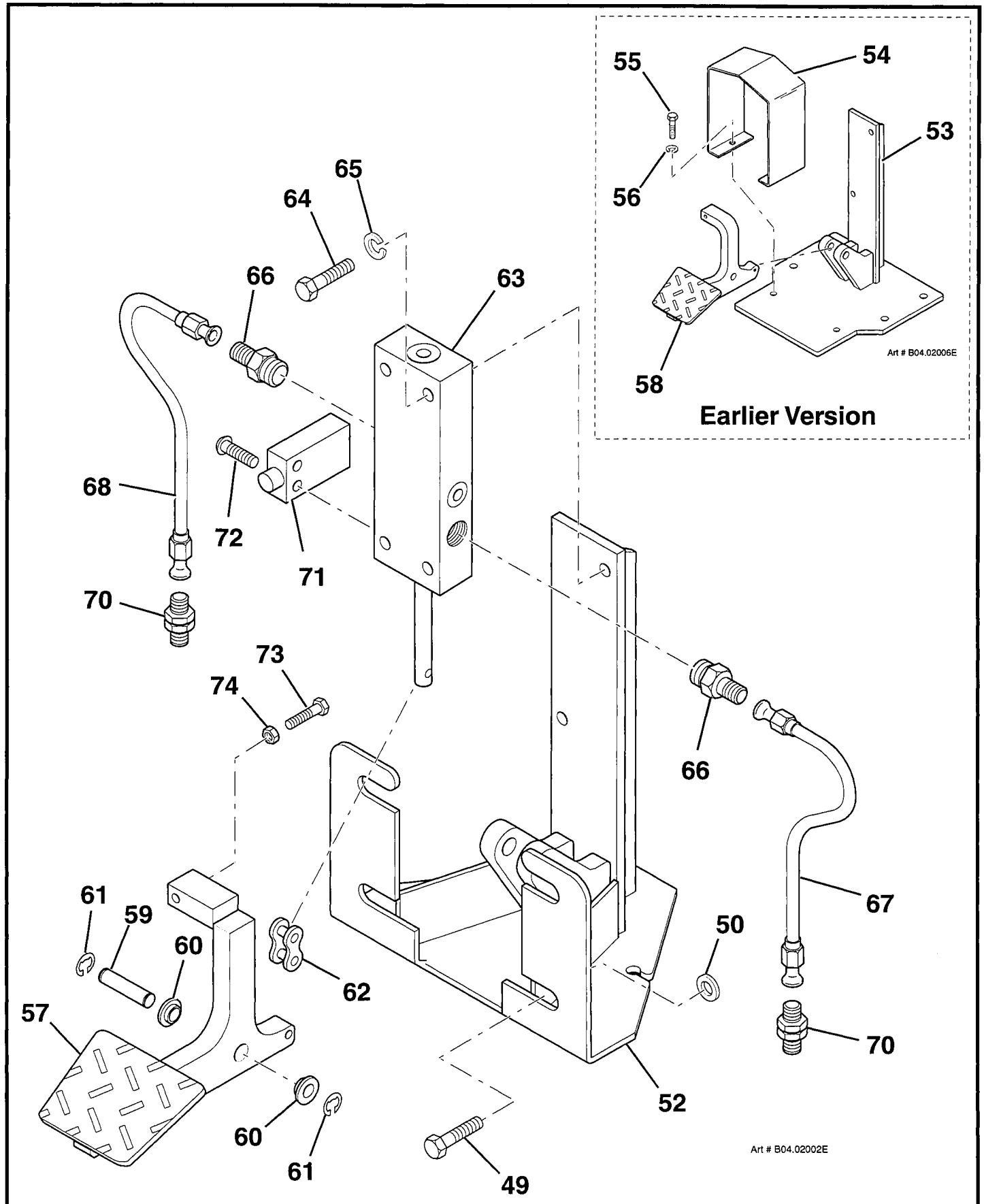
TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 4)		
SIMON AERIALS INC.	REV. 07 DEC., 1994	PART NO.	PLATE NO. B04.02

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
44	01-001900		VALVE, CHECK (Pilot operated)	1
45	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F50X-S)	2
46	06-044400		90° ELBOW, STRAIGHT THREAD (4-6 C50X-S)	2
47	07-040015		NUT, HEX (5/16"-18, Grade 5)	2
48	07-062015		WASHER, FLAT (5/16")	2
49	07-003042		CAP SCREW, HEX HEAD (3/8"-16 x 5/8", Grade 5)	4
50	07-065016		WASHER, HELICAL LOCK (3/8")	4
51			FOOT VALVE ASSEMBLY, HYDRAPORT	1
	350 0862		**Earlier** version(Toe guard bolts to base)	
	352 3620		**Later** version(Toe guard is part of the platform weldment)	
52	205 6920		BRACKET, FOOT PEDAL (for later versions)	1
53	203 3969		BASE, FOOT PEDAL (for earlier versions)	1
54	203 3914		GUARD, TOE (for earlier versions)	1
55	07-003042		CAP SCREW, HEX HEAD (3/8"-16 x 5/8", Grade 5)	2
56	07-065015		WASHER, HELICAL LOCK (3/8")	2
57	200 5146		PEDAL, FOOT (Welded block on lever for limit switch actuator screw attachment.)	1
58	203 3950		PEDAL, FOOT (Lever is bent for switch actuator. For some earlier versions.)	1
59	203 3893		PIN (3/8" dia. x 2-1/16" long)	1
60	08-010500		BEARING, FLANGED (3/8" I.D.) (for later versions)	2
61	08-047000		RING, RETAINING	2
62	08-010200		LINK, CHAIN CONNECTING	1
63	See Index .	D05. - -	VALVE, DESTROKE (HPC Valve)	1
64	07-003027		CAP SCREW, HEX HEAD (5/16"-18 x 1-1/2", Grade 5)	2
65	07-065015		WASHER, HELICAL LOCK (5/16")	2
66	06-039800		ADAPTER, "O"-RING TO 37° (6 F50X-S)	2
67	350 7812		TUBE ASSEMBLY (for later versions)	1
68	350 7825		TUBE ASSEMBLY (for later versions)	1
69	06-095000		PLUG (6 HP50N-S) (for earlier versions)	1
70	06-032000		UNION, BULKHEAD (6 WTX-S) (for later versions)	2
71	03-026600		SWITCH, LIMIT	1
72			MACHINE SCREW	2
	07-011344		PAN HEAD (#8-32 x 3/4") (for earlier versions)	
	07-090100		ROUND HEAD (#10-32 x 3/4") (for later versions)	
73	07-003006		CAP SCREW, HEX HEAD (1/4"-20 x 1-1/4", Grade 5)	1
74	07-040014		NUT, HEX (1/4"-20, Grade 5)	1
75	07-060014		WASHER, FLAT (1/4", SAE) (for later versions)	4

TITLE: PLATFORM ASSEMBLY, MP SERIES (PLATE 3 OF 4)

PLATE NO. B04.02 | **SIMON AERIALS INC.** REV. 07 DEC., 1994 | PART NO.

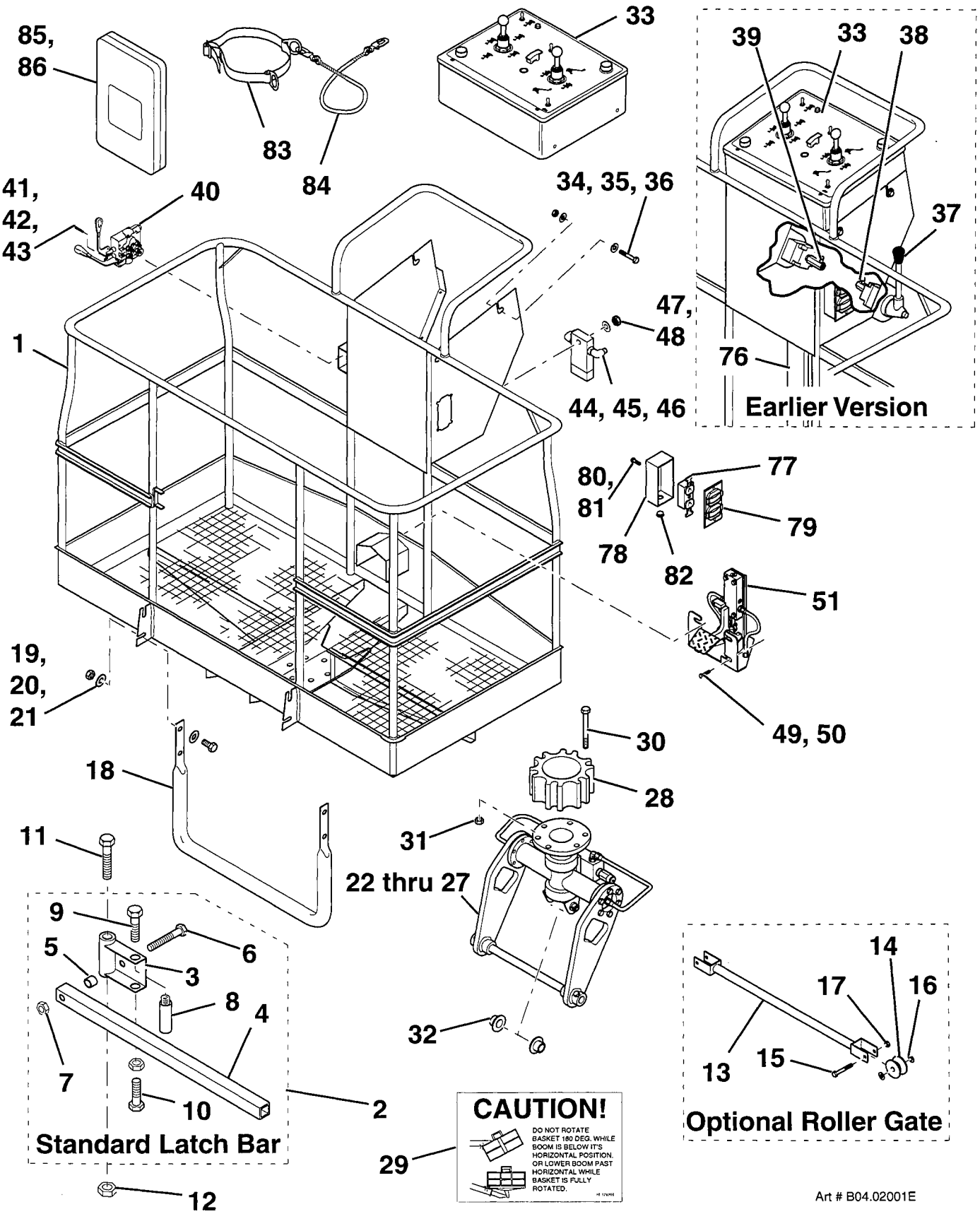


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 3 OF 4)		
SIMON AERIALS INC.	REV. 07 DEC., 1994	PART NO.	PLATE NO. B04.02

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
76	205 6766		TRAY, HOSE (Hose channel) (Separate item, for first type.)	1
77	03-067000		OUTLET, DUPLEX (20 Amp, 110 Volt AC)	1
78	03-062100		BOX, DUPLEX OUTLET (Weatherproof)	1
79	03-062200		COVER, DUPLEX OUTLET (Weatherproof)	1
80	07-011355	-	MACHINE SCREW, ROUND HEAD (#10-24 x 3/4")	2
81	07-050011		NUT, LOCK (#10-24, Grade 2)	2
82	03-042000		CONNECTOR, CABLE (2 screw, 3/8")	1
83	10-034000		BELT, SAFETY	1
84	10-033900		LANYARD, SAFETY BELT	1
85	11-085200		BOX, TECHNICAL MANUAL STORAGE	1
86	07-029365	-	SCREW, HEX WASHER HEAD (#12 x 1", Self drilling, with rubber seal)	2
87	10-042500		COVER, CONSOLE CONTROLS (black vinyl) (option)	1
88	10-163800		STUD, BUTTON SNAP (stainless steel)	A.R.
89	07-099300		RIVET, BLIND (1/8" x 1/8", stainless steel)	A.R.
90	353 7380		HOSE KIT, PLATFORM	1
			The following are also found on platform assemblies:	
91	205 4670		CLAMP, HOSE (2 hole, #4)	A.R.
92	07-062014		WASHER, FLAT (1/4")	A.R.
93	07-050014		NUT, LOCK (1/4"-20, Grade 5)	A.R.
94	03-066400		TIE, CABLE (20" [508 mm] long)	A.R.
95	03-064700		TIE, CABLE (14-1/2" [368 mm] long)	A.R.
96	03-064000		TIE, CABLE (7.4" [188 mm] long)	A.R.
97	03-064100		MOUNT, CABLE TIE (Adhesive backed)	A.R.
98	10-113000		PROTECTOR, HOSE (Neoprene, 8" x 12" x 1/8" thick)	A.R.
	10-113200		PROTECTOR, HOSE (Neoprene, 6" x 9" x 1/8" thick)	A.R.

TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 4 OF 4)		
PLATE NO. B04.02	**SIMON AERIALS INC.**	REV. 07 DEC., 1994	PART NO.



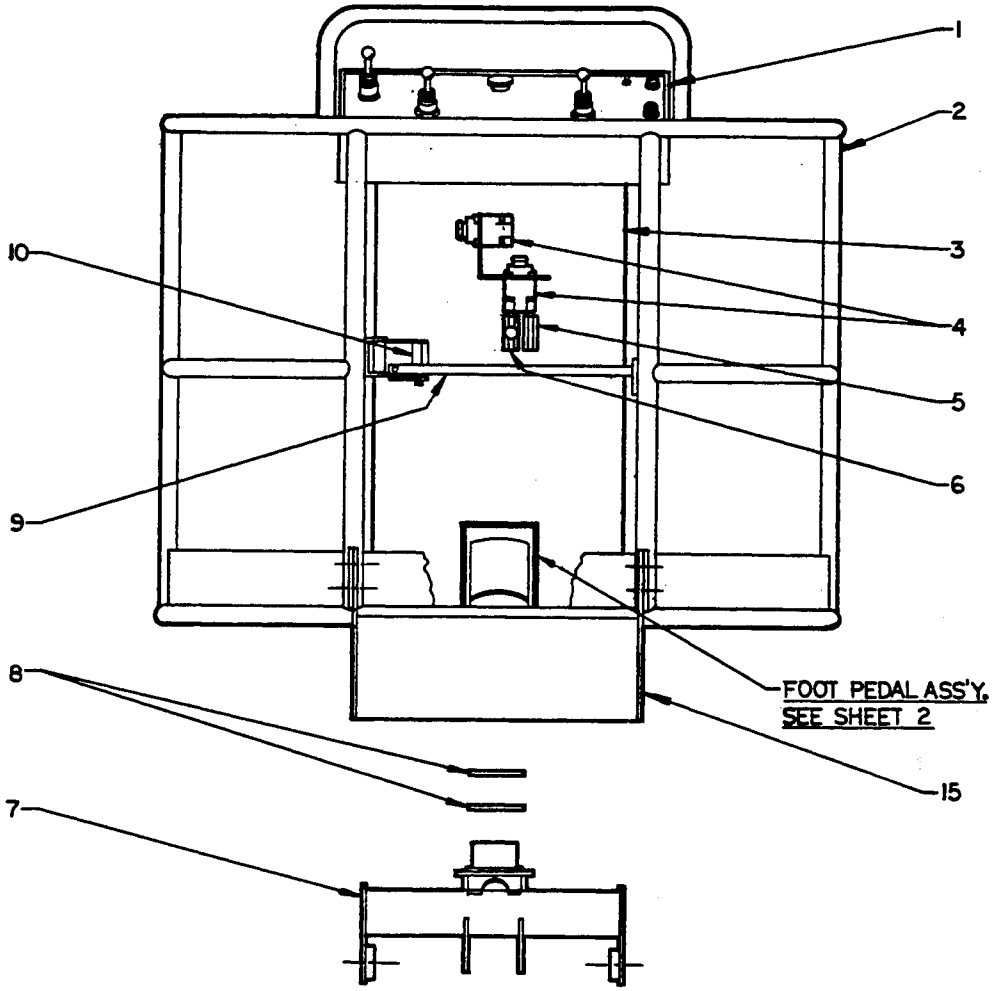
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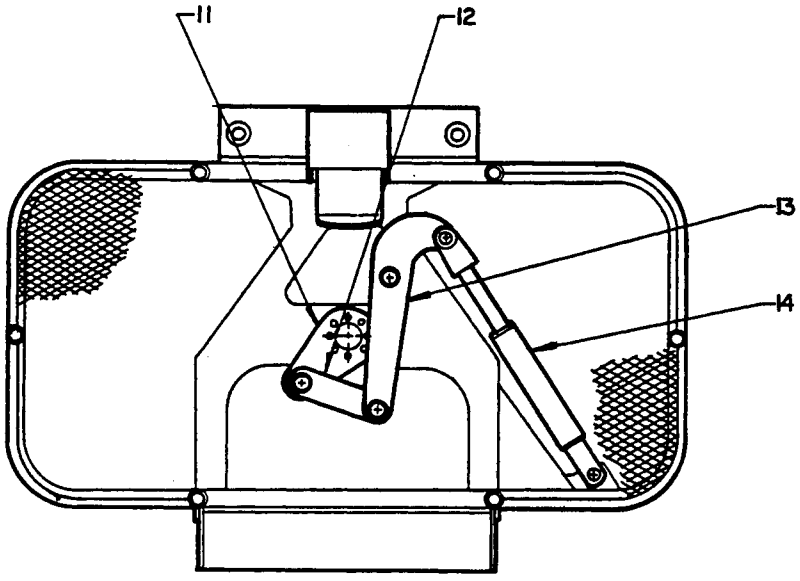
TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 4 OF 4)		
SIMON AERIALS INC.	REV. 07 DEC., 1994	PART NO.	PLATE NO. B04.02

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	See Index . .	C08. - -	PLATFORM CONTROL CONSOLE ASSEMBLY	1
2			PLATFORM WELDMENT	
			(Early models, with platform rotate cylinder)	1
	205 6409		**MP** Series (36" x 72" [.91 M x 1.83 M])	
	205 6399		**MPN** Series (36" x 60" [.91 M x 1.52 M])	
3			CONSOLE WELDMENT	1
4	01-008000	D14.01	4-WAY MANUAL VALVE (Platform level or rotate)	2
5	01-020800		VALVE, CHECK	1
6	01-000500		VALVE, NEEDLE	1
7	200 7555		TRUNNION	1
8	201 5637		WASHER, THRUST	2
9	351 4160		BAR ASSEMBLY, LATCH	1
10	08-010100		SPRING AND TUBE ASSEMBLY	1
11	202 0323		ARM, PIVOT	1
12	201 5673		LINK, MID	1
13	202 5782		ARM, LEVER	1
14	See Index . .	D23. - -	CYLINDER, PLATFORM ROTATE	1
15			STEP, PLATFORM	1
	202 6077		Flat "Diamond plate" step (Early style)	
	207 1277		Bent tubing style (17" [.43 M] high)	
			The following items are not illustrated:	
16	202 5524		DOOR (Early model)	1
17	201 5488		LATCH (Early model)	1
18	206 2073		BRACKET, PIVOT ARM	1
19	04-003401		PIN (1" x 3-1/2")	1
20	04-003404		CLIP, HAIR PIN	1

TITLE	PLATFORM ASSEMBLY (PLATE 1 OF 2)			
PLATE NO. B04.03	**SIMON AERIALS INC.**	REV. 13 MAR., 1995 THIS SHEET ONLY	**PART NO.**	207 2298





TOP VIEW OF FLOOR

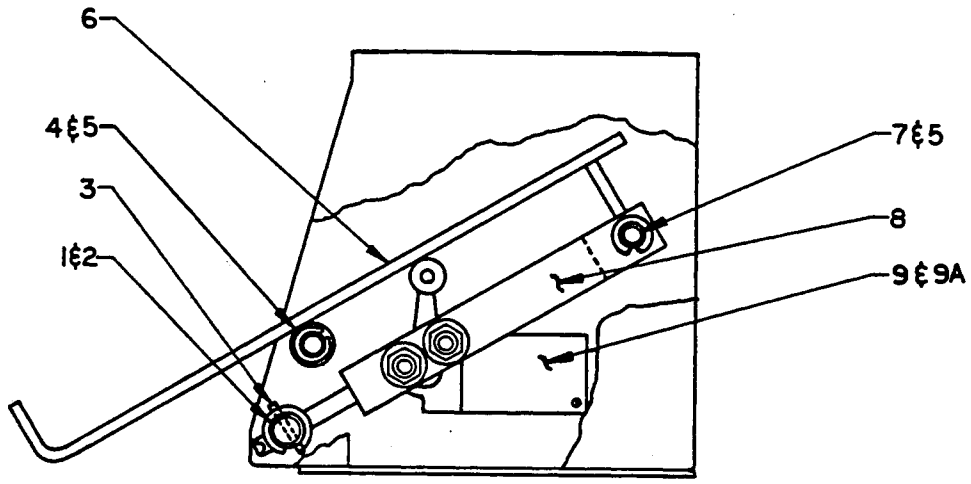
0884 /0677

DESCRIPTION	PART NO.
PLATFORM ASSEMBLY	CAA-207229-8

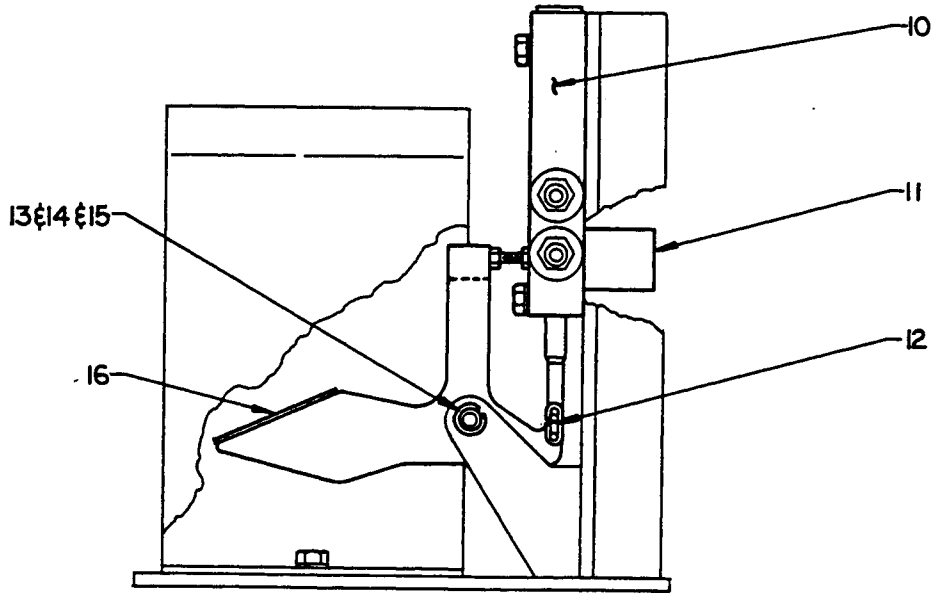
PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SBD-201559-6		PIN, VALVE SPOOL	1
2	08-045200		SNAP RING	2
3	07-075414		ROLL PIN	1
4	SBD-201557-4		PIN, PEDAL PIVOT	1
5	08-045300		SNAP RING	4
6	SDW-202571-1		FOOT PEDAL WELDMENT	1
7	SBD-201560-6		PIN, VALVE BODY	1
8	SEE INDEX	D5	HPC VALVE	1
9	03-021400		LIMIT SWITCH	1
9A	03-026000		LEVER ARM, LIMIT SWITCH	1
10	SEE INDEX	D5	HPC VALVE	1
11	03-026600		LIMIT SWITCH	1
12	08-010200		LINK ASSEMBLY	1
13	SAD-203389-3		PIN	1
14	08-047000		SNAP RING	1
15	08-010500		FLANGE BEARING	2
16	SCW-203395-0		FOOT PEDAL	1

DESCRIPTION	PART NO.
PLATFORM ASSEMBLY	CAA-207229-8



FOOT PEDAL ASS'Y. ~ EARLY MODEL



FOOT PEDAL ASS'Y. ~ LATE MODEL

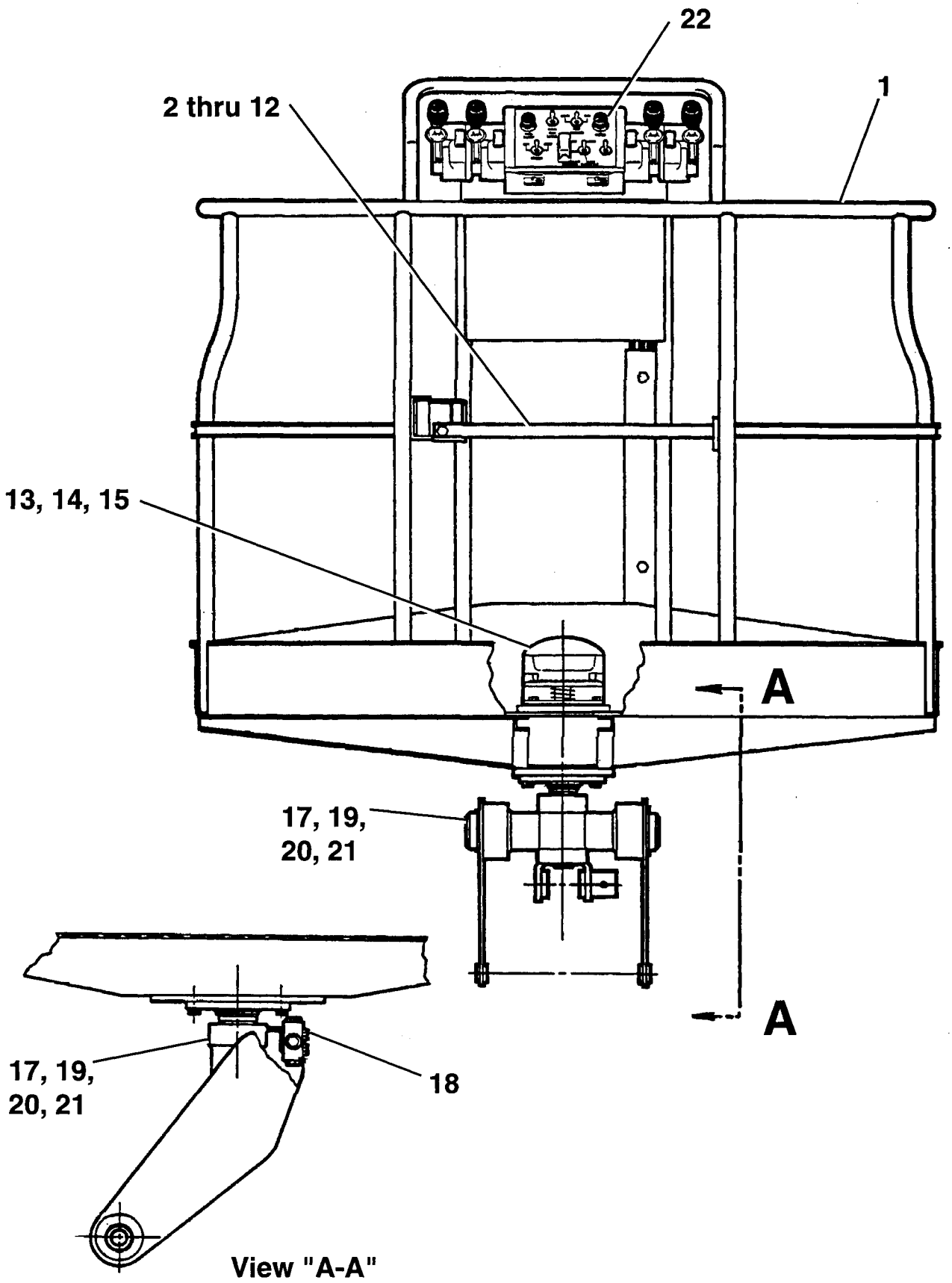
0884/0677 SHEET 2 OF 2

DESCRIPTION	PART NO.
PLATFORM ASSEMBLY	CAA-207229-8

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			PLATFORM WELDMENT (Standard type, with Rotary Actuator mounted **under** floor) For **Earliest** style Electro-Proportional controls (with 4	1
			Control Levers):	
	211 7610		**MP** Series (36" x 72" [.91 M x 1.83 M]) (**Standard**)	
	211 7550		**MPN** Series (36" x 60" [.91 M x 1.52 M]) (**Standard**)	
2	351 4160		BAR ASSEMBLY, LATCH	1
3	204 1724		PIVOT, DOOR	1
4	207 6577		BAR, LATCH	1
5	204 1649		SPACER, LATCH BAR PIVOT	1
6	07-003047		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 5)	1
7	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	1
8	08-010100		SPRING AND TUBE ASSEMBLY	1
9	210 8380		SPACER	1
10	07-003043		CAP SCREW, HEX HEAD (3/8"-16 x 3/4", Grade 5)	1
11	07-003096		CAP SCREW, HEX HEAD (1/2"-13 x 3-3/4", Grade 5)	1
12	07-058400		NUT, LOCK (1/2"-13, Grade 8)	1
13	03-021300		SWITCH ASSEMBLY, FOOT (Single pole)	1
14	03-021301		SWITCH (Single pole, double throw)	1
15	03-021302		COVER, SWITCH (Guard type, with latch)	1
16	214 6800		STEP, PLATFORM (17-1/2" [.44 M] high) (not shown)	1
17	See Index .	D24. - -	ACTUATOR, ROTARY (Helical type, 180°)	1
18	01-001900		VALVE, DOUBLE LOCK (Earlier versions. No cartridges protrude from block.)	1
	01-202000		MANIFOLD, RELIEF/ CHECK VALVE (Later versions. Two cartridges protrude from block.)	1
19	07-004089		CAP SCREW, HEX HEAD (1/2"-13 x 2", Grade 8)	6
20	07-058400		NUT, LOCK (1/2"-13, Grade 8)	6
21	08-002500		BEARING, SLEEVE (1-1/4" I.D., 1-5/8" O.D., 1" long)	2
22	See Index .	C08. - -	PLATFORM CONTROL CONSOLE ASSEMBLY	1
23	10-034000		BELT, SAFETY	1
24	10-033900		LANYARD, SAFETY BELT	1

TITLE	PLATFORM ASSEMBLY, MP SERIES	
PLATE NO. B04.06	**SIMON AERIALS INC.** REV. 01 DEC., 1994	PART NO.

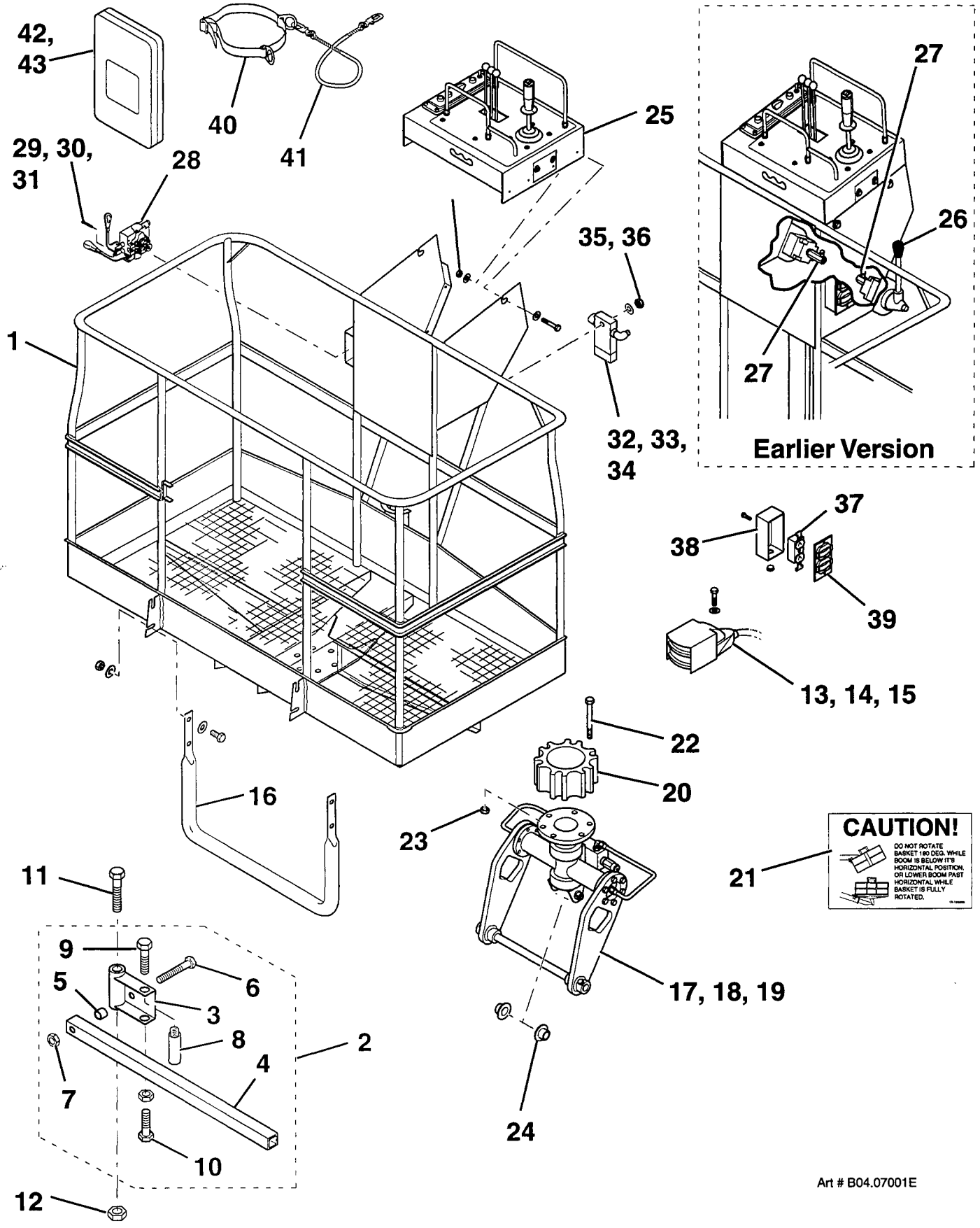


TITLE	PLATFORM ASSEMBLY, MP SERIES		
SIMON AERIALS INC. REV. 01 DEC., 1994		PART NO.	PLATE NO. B04.06

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			PLATFORM WELDMENT	
			(Standard type, with Rotary Actuator mounted **under** floor)	1
			For **Full Hydraulic** controls (4 "Joysticks"):	
			Earlier style, with Platform Rotate valve on left, and	
			Platform Level valve on right side of console:	
	209 6054		**MP** Series (36" x 72" [.91 M x 1.83 M]) (**Standard**)	
	211 4440		**MP** Series (36" x 96" [.91 M x 2.44 M]) (**Optional**)	
	210 1450		**MPN** Series (36" x 60" [.91 M x 1.52 M]) (**Standard**)	
			Later style, with Platform Rotate and Level valves both	
			in box on outside of left side of console:	
	230 5300		**MP** Series (36" x 72" [.91 M x 1.83 M]) (**Standard**)	
	230 5330		**MP** Series (36" x 96" [.91 M x 2.44 M]) (**Optional**)	
	230 5270		**MPN** Series (36" x 60" [.91 M x 1.52 M]) (**Standard**)	
	230 6920		**Special Application** (30" x 60" [.76 M x 1.52 M])	
2	351 4160		BAR ASSEMBLY, LATCH (standard "Lift and Swing" style)	1
3	204 1724		PIVOT, DOOR	1
4	207 6577		BAR, LATCH	1
5	204 1649		SPACER, LATCH BAR PIVOT	1
6	07-003047		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 5)	1
7	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	1
8	08-010100		SPRING AND TUBE ASSEMBLY	1
9	210 8380		SPACER	1
10	07-003043		CAP SCREW, HEX HEAD (3/8"-16 x 3/4", Grade 5)	1
11	07-003096		CAP SCREW, HEX HEAD (1/2"-13 x 3-3/4", Grade 5)	1
12	07-058400		NUT, LOCK (1/2"-13, Grade 8)	1
13	03-021300		SWITCH ASSEMBLY, FOOT (Single pole)	1
14	03-021301		SWITCH (Single pole, double throw)	1
15	03-021302		COVER, SWITCH (Guard type, with latch)	1
16	214 6800		STEP, PLATFORM (17-1/2" [.44 M] high)	1
17	See Index . .	D24. - -	ACTUATOR, ROTARY (Helical type, 180°)	1
18	01-001900		VALVE, DOUBLE LOCK	
			(Earlier versions. No cartridges protrude from block.)	1
19	01-202000		MANIFOLD, RELIEF/ CHECK VALVE	
			(Later versions. Two cartridges protrude from block.)	1
20			SPACER, ROTARY ACTUATOR (for use with 96" platform)	1
	233 5380		Model MP 40 (4" [102 mm] thick)	
	233 5510		except Model MP40 (6" [152 mm] thick)	
21	10-129200		DECAL, "CAUTION, DO NOT ROTATE . . ." (found on some	
			earlier versions having 96" platform, but no spacer)	1

TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 2)		
PLATE NO. B04.07	**SIMON AERIALS INC.** NEW 01 DEC., 1994		PART NO.

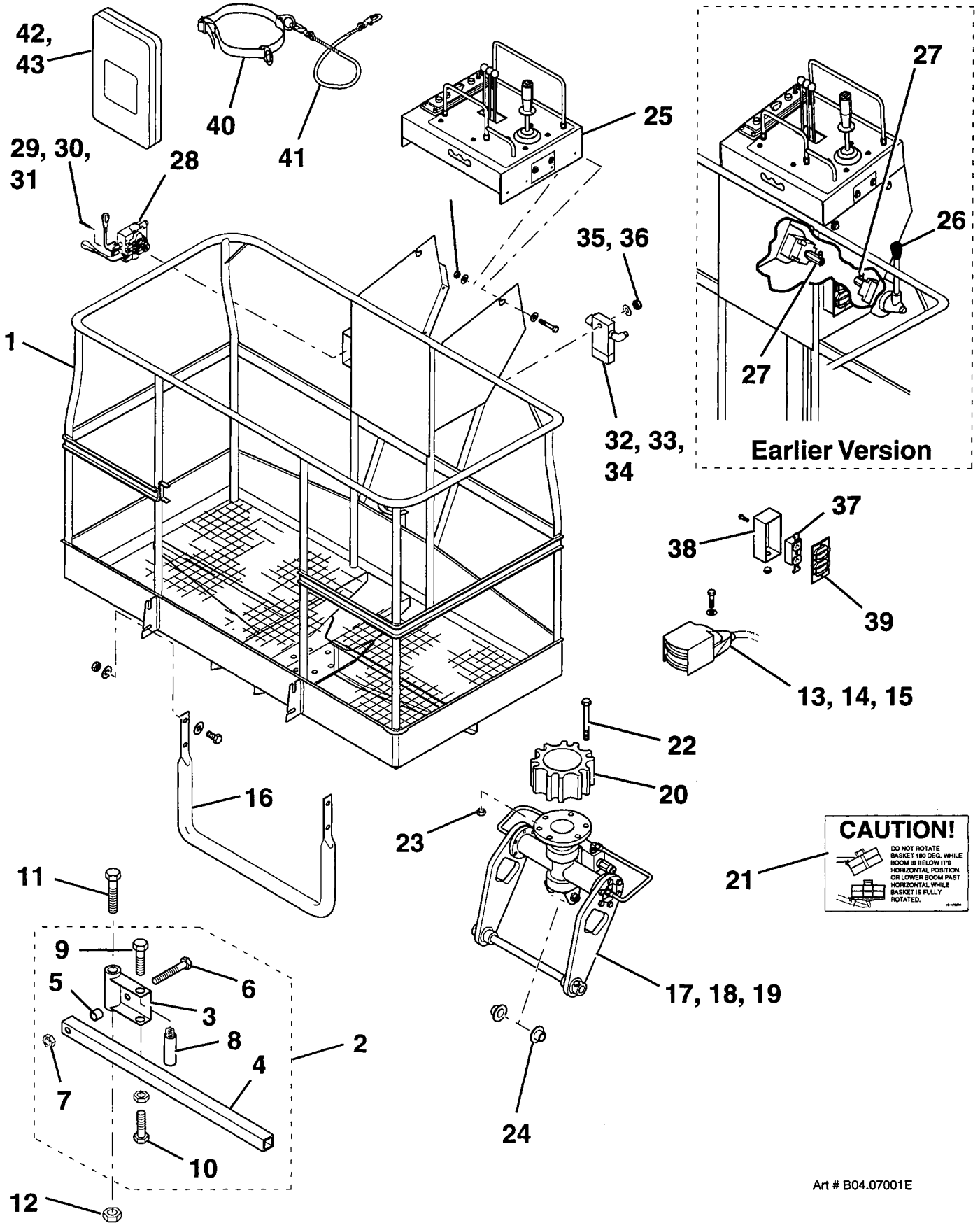


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 2)		
SIMON AERIALS INC.	NEW 01 DEC., 1994	PART NO.	PLATE NO. B04.07

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
22			CAP SCREW, HEX HEAD (1/2"-13, Grade 8)	6
	07-004089		2" long, for all except with 96" platform	
	07-004100		6" long, for **Model MP 40** with 96" platform	
	07-113400		8", long, for models with 96" platform **except MP 40**	
23	07-058400		NUT, LOCK (1/2"-13, Grade 8)	6
24	08-002200		BEARING, FLANGED (1-1/4" I.D., 1-1/2" O.D., 2" O.D. flange, 1-1/2" long) (later versions)	2
	08-002500		BEARING, SLEEVE (1-1/4" I.D., 1-5/8" O.D., 1" long) (earlier versions)	2
25	See Index . .	C08. - -	PLATFORM CONTROL CONSOLE ASSEMBLY	1
26	See Plate . .	D14. - -	VALVE, 4-WAY MANUAL (Platform level or rotate) (Earlier versions)	2
27	01-018900		VALVE, NEEDLE (#6 SAE Ports)	2
28	See Plate . .	D14. - -	VALVE, PLATFORM LEVEL AND ROTATE (Later versions)	1
29	07-003009		CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5)	2
30	07-060014		WASHER, FLAT (1/4", SAE)	2
31	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2
32	01-001900		VALVE, CHECK (Pilot operated)	1
33	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F50X-S)	2
34	06-044400		90° ELBOW, STRAIGHT THREAD (4-6 C50X-S)	2
35	07-040015		NUT, HEX (5/16"-18, Grade 5)	2
36	07-065015		WASHER, HELICAL LOCK (5/16")	2
37	03-067000		OUTLET, DUPLEX (20 Amp, 110 Volt AC)	1
38	03-062100		BOX, DUPLEX OUTLET (Weatherproof)	1
39	03-062200		COVER, DUPLEX OUTLET (Weatherproof)	1
40	10-034000		BELT, SAFETY	1
41	10-033900		LANYARD, SAFETY BELT	1
42	11-085200		BOX, TECHNICAL MANUAL STORAGE	1
43	07-029365		SCREW, HEX WASHER HEAD (#12 x 1", Self drilling, with rubber seal)	2
44	10-159100		COVER, CONSOLE CONTROLS (black vinyl) (option)	1
45	10-163800		STUD, BUTTON SNAP (stainless steel)	A.R.
46	07-099300		RIVET, BLIND (1/8" x 1/8", stainless steel)	A.R.
47	Call Simon		HOSE KIT, PLATFORM (Full Hydraulic)	1

TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 2)		
PLATE NO. B04.07	**SIMON AERIALS INC.** NEW 01 DEC., 1994	PART NO.	



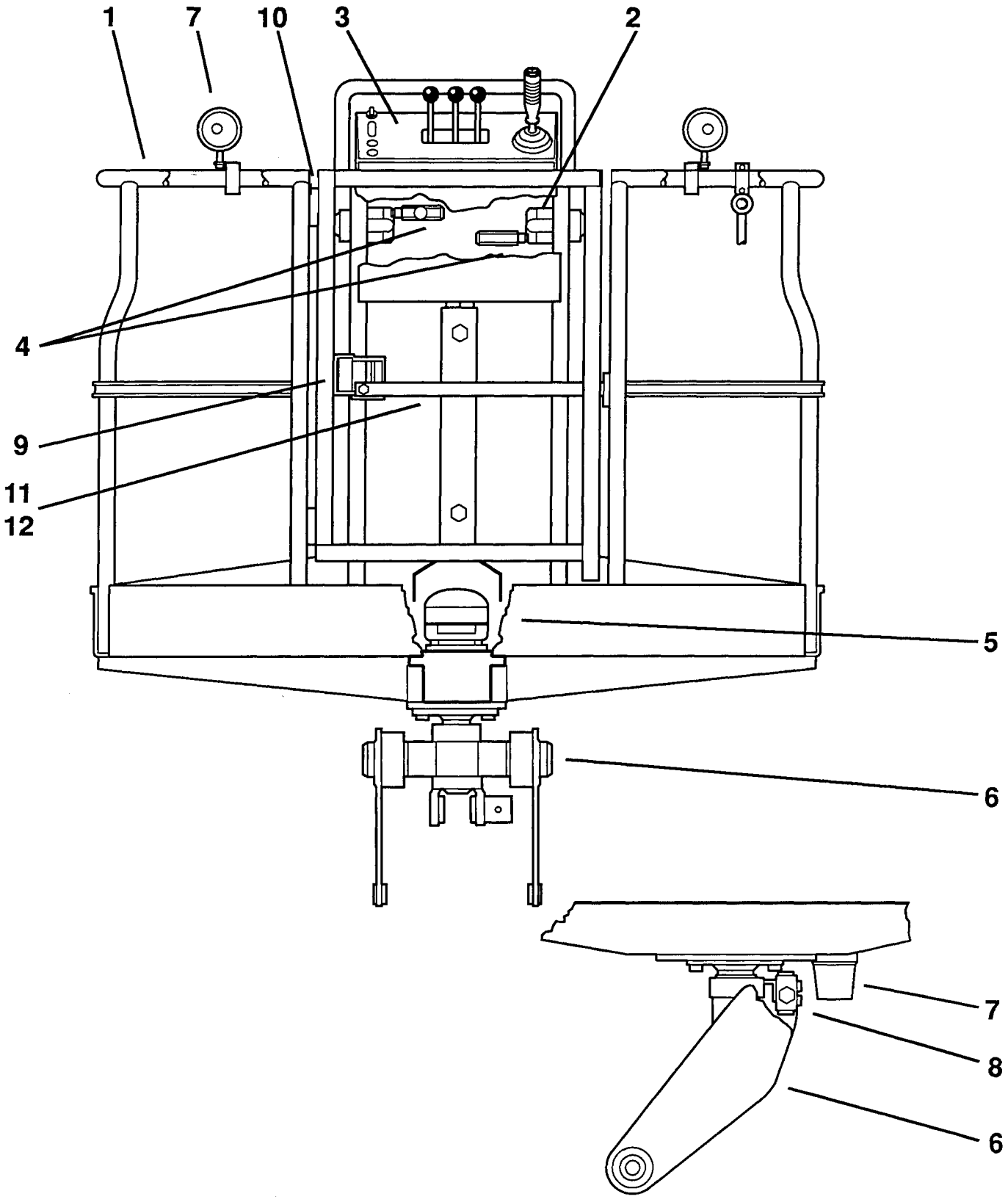
TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 2)		
SIMON AERIALS INC.	NEW 01 DEC., 1994	PART NO.	PLATE NO. B04.07

PARTS LIST

ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
1	2170850		PLATFORM WELDMENT	1
2	SEE INDEX	D14.03	4-WAY MANUAL VALVE	2
3	SEE INDEX	C08.10	CONTROL CONSOLE ASSEMBLY	1
4	01-018900		NEEDLE VALVE (#6 SAE Ports)	2
5	03-021300		SWITCH, FOOT	1
6	SEE INDEX	D24.07	ROTARY ACTUATOR	1
7		E05.01	LIGHT PACKAGE	1
8	01-001900		VALVE, DOUBLE LOCK	1
9	2169560		GATE, FULL OPENING	1
10	2169550		HINGE, SPRING LOADED	2
11	2076577		LATCH, DOOR	1
12	2108380		SPACER, LATCH	1

TITLE PLATFORM ASSEMBLY (FULL HYDRAULIC)

PLATE NO. B04.10 | **SIMON AERIALS INC.** ORIGIN 06/05/90 | PART NO.



SIDE VIEW OF ROTARY ACTUATOR

TITLE	PLATFORM ASSEMBLY (FULL HYDRAULIC)		
SIMON AERIALS INC. ORIGIN 06/05/90		PART NO.	PLATE NO. B04.10

PARTS LIST

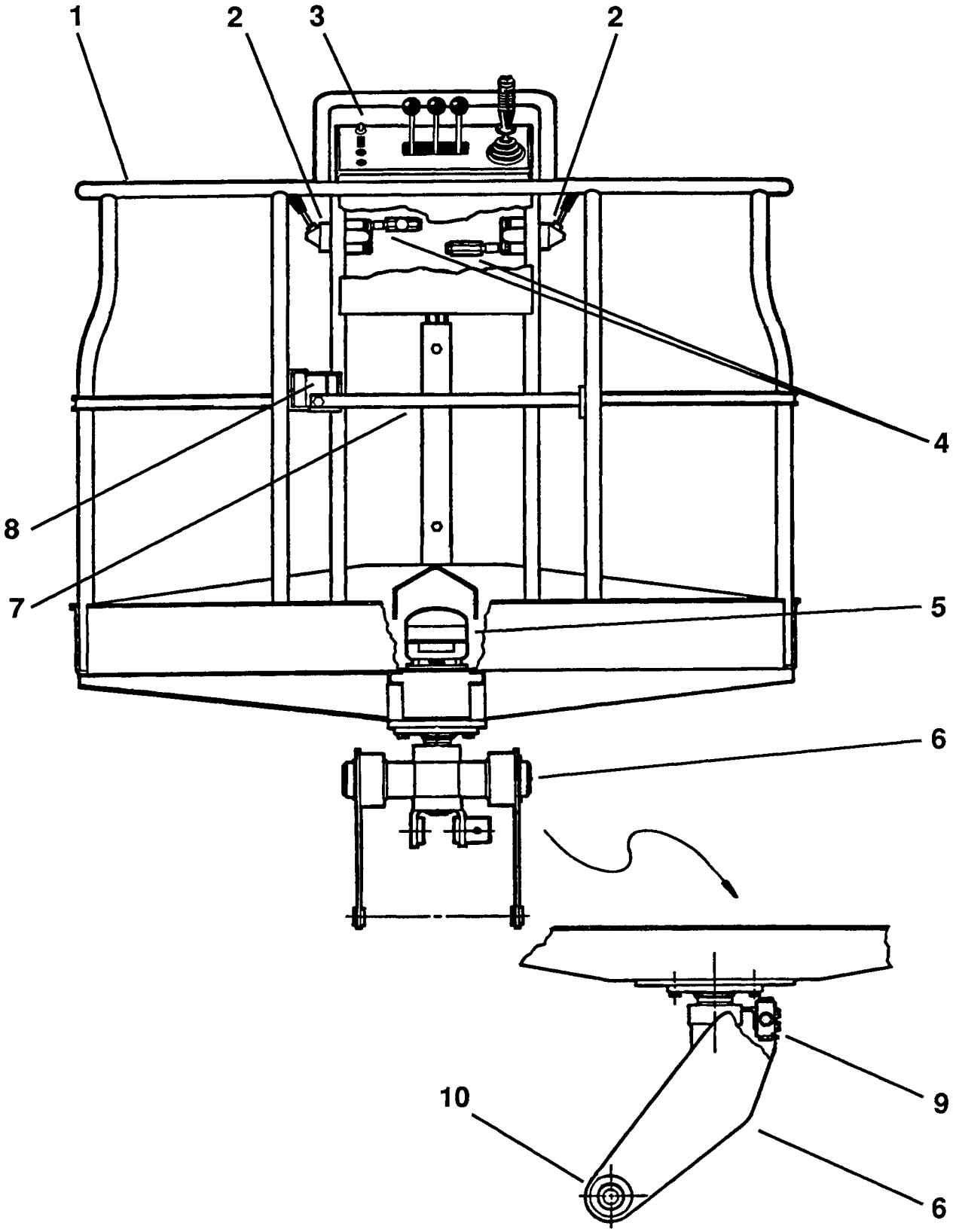
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2170850		PLATFORM WELDMENT	1
2	SEE INDEX	D14.--	4-WAY MANUAL VALVE	2
3	SEE INDEX	C08.--	CONTROL CONSOLE ASSEMBLY	1
4	01-018900		NEEDLE VALVE (#6 SAE Ports)	2
5	03-021300		SWITCH, FOOT	1
6	SEE INDEX	D24.--	ROTARY ACTUATOR	1
7	2041649		GATE	1
8	08-010100		SPRING	1
9	01-001900		VALVE, DOUBLE LOCK	1
10	08-002500		BEARING, SLEEVE	2

TITLE PLATFORM ASSEMBLY (FULL HYDRAULIC)

PLATE NO. B04.11

SIMON AERIALS INC. NEW 11/30/90

PART NO.



SIDE VIEW OF ROTARY ACTUATOR

TITLE	PLATFORM ASSEMBLY (FULL HYDRAULIC)		
SIMON AERIALS INC. NEW 11/30/90		PART NO.	PLATE NO. B04.11

PARTS LIST

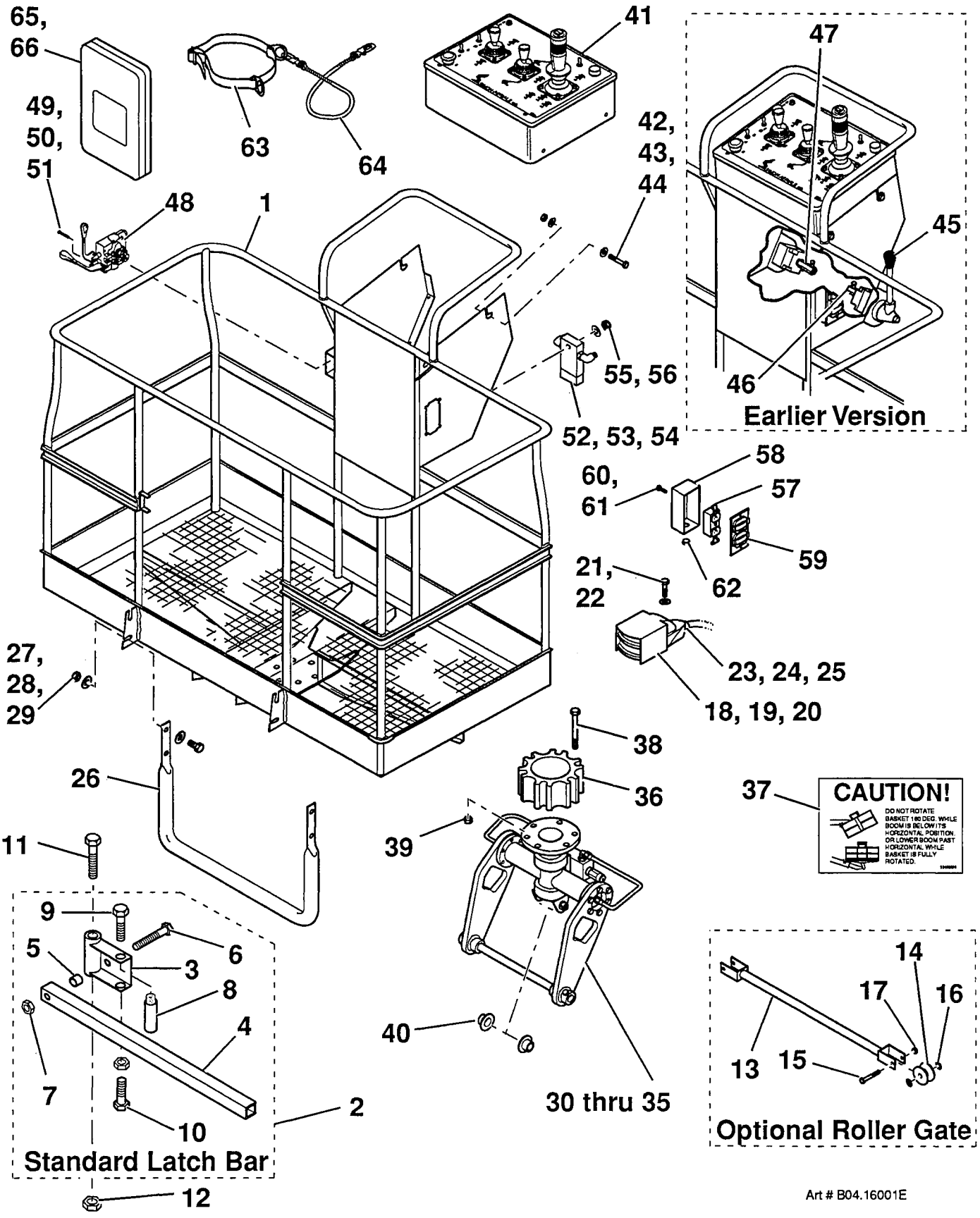
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			PLATFORM WELDMENT (Standard type, with Rotary Actuator mounted **under** floor) For **"Type 2" Electro-Proportional** controls (with 3	1
			"Joystick" controls): **Earlier** style, with Platform Rotate valve on left, and Platform Level valve on right side of console:	
	210 1540		**MP** Series (36" x 72" [.91 M x 1.83 M]) (**Standard**)	
	Call Simon		**MP** Series (36" x 96" [.91 M x 2.44 M]) (**Optional**)	
	Call Simon		**MPN** Series (36" x 60" [.91 M x 1.52 M]) (**Standard**)	
			Later style, with Platform Rotate and Level valves both in box on outside of left side of console:	
	230 5290		**MP** Series (36" x 72" [.91 M x 1.83 M]) (**Standard**)	
	230 5320		**MP** Series (36" x 96" [.91 M x 2.44 M]) (**Optional**)	
	230 5260		**MPN** Series (36" x 60" [.91 M x 1.52 M]) (**Standard**)	
2	351 4160		BAR ASSEMBLY, LATCH (standard "Lift and Swing" style)	1
3	204 1724		PIVOT, DOOR	1
4	207 6577		BAR, LATCH	1
5	204 1649		SPACER, LATCH BAR PIVOT	1
6	07-003047		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 5)	1
7	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	1
8	08-010100		SPRING AND TUBE ASSEMBLY	1
9	210 8380		SPACER	1
10	07-003043		CAP SCREW, HEX HEAD (3/8"-16 x 3/4", Grade 5)	1
11	07-003096		CAP SCREW, HEX HEAD (1/2"-13 x 3-3/4", Grade 5)	1
12	07-058400		NUT, LOCK (1/2"-13, Grade 8)	1
13	219 8520		BAR, GATE (optional pull up "Roller Gate" style)	1
14	219 8510		ROLLER, PULL UP GATE	2
15	07-003051		CAP SCREW, HEX HEAD (3/8"-16 x 2-1/2", Grade 5)	2
16	07-062016		WASHER, FLAT (7/16")	4
17	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	2
18	03-021300		SWITCH ASSEMBLY, FOOT (Single pole)	1
19	03-021301		SWITCH (Single pole, double throw)	1
20	03-021302		COVER, SWITCH (Guard type, with latch)	1
21	07-003003		CAP SCREW, HEX HEAD (1/4"-20 x 3/4", Grade 5) **or**	3
	07-003004		CAP SCREW, HEX HEAD (1/4"-20 x 7/8", Grade 5)	3
22	07-065014		WASHER, HELICAL LOCK (1/4")	3
23	03-045000		REDUCER (3/4" to 1/2")	1
24	03-045500		GRIP, CORD (1/2", with .31" to .38" seal) **or**	1
	03-063300		GRIP, CORD (90°, 1/2", with .31" to .38" seal)	1
25	03-085700		CABLE, ELECTRICAL (SJO, 4 conductor, #16 AWG) (Bulk item, 7 Ft [2.1 M] required this application)	A.R.

TITLE: PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 3)

PLATE NO. B04.16

SIMON AERIALS INC. NEW 01 DEC., 1994

PART NO.

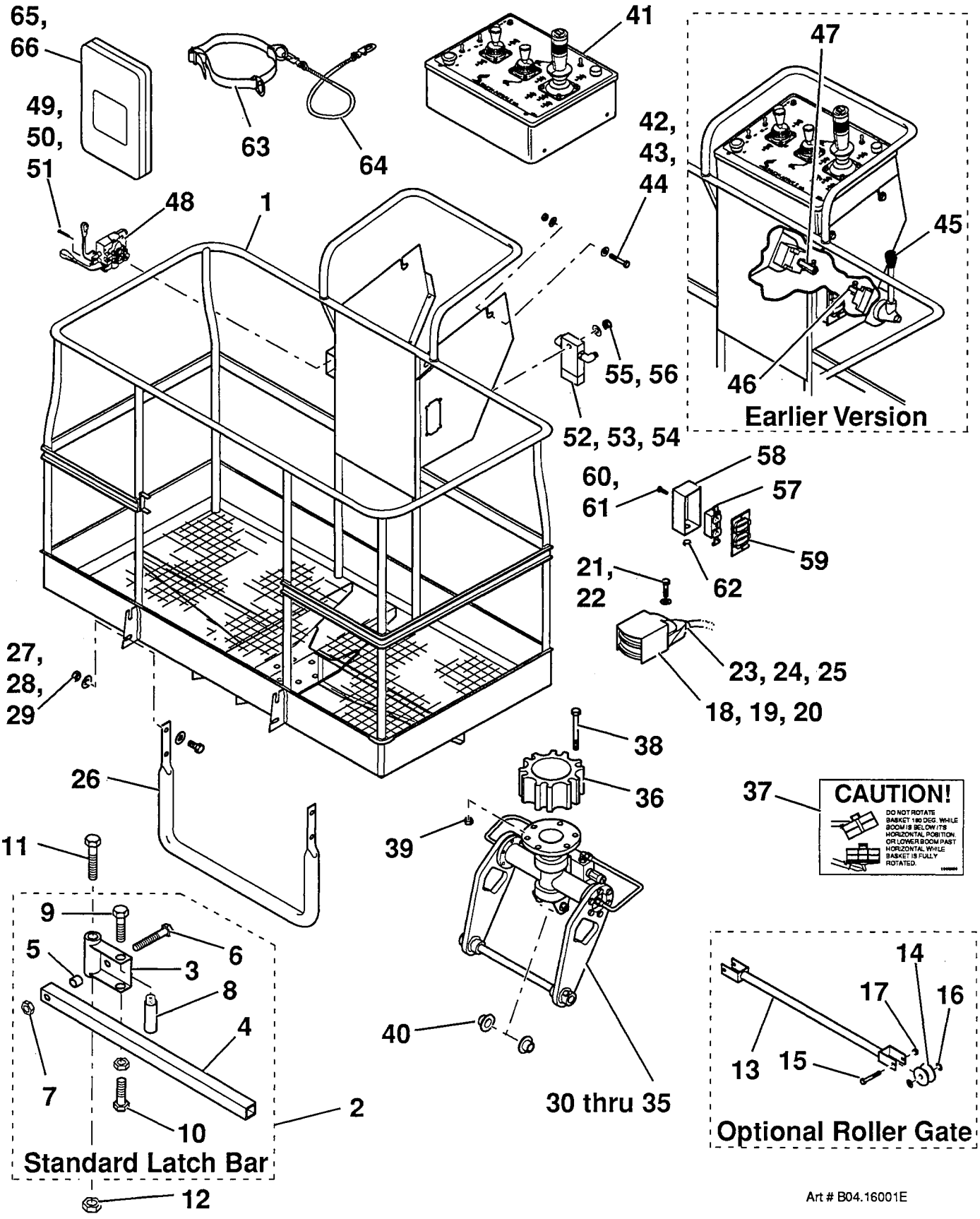


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 3)		
SIMON AERIALS INC.	NEW 01 DEC., 1994	PART NO.	PLATE NO. B04.16

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
26			STEP, PLATFORM	1
	214 6800		Standard version (17-1/2" [.44 M] high)	
	219 8710		Optional longer step (21-1/2" [.55 M] high)	
27	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	4
28	07-050016		NUT, LOCK (3/8"-16, Grade 5)	4
29	07-062016		WASHER, FLAT (7/16")	8
30	See Index . .	D24.06	ACTUATOR, ROTARY (Helical type, 180°) (includes pins)	1
31			PIN, PLATFORM PIVOT (1-1/4" x 20")	1
	210 2940		except Canada (Standard type, included with actuator)	1
	219 4480		CSA standards (Specify if this type is needed)	1
32			PIN, SLAVE CYLINDER (1-1/4" x 7-3/8") (Rod end)	
	206 8879		except Canada (Standard type, included with actuator)	1
	219 4500		CSA standards (Specify if this type is needed)	1
33	01-001900		VALVE, DOUBLE LOCK	
			(Earlier versions. No cartridges protrude from block.)	1
34	01-202000		MANIFOLD, RELIEF/ CHECK VALVE	
			(Later versions. Two cartridges protrude from block.)	1
35	08-040700		RING, RETAINING (1-1/4")	4
36			SPACER, ROTARY ACTUATOR (for use with 96" platform)	1
	233 5380		Model MP 40 (4" [102 mm] thick)	
	233 5510		except Model MP40 (6" [152 mm] thick)	
37	10-129200		DECAL, "CAUTION, DO NOT ROTATE . . ." (found on some earlier versions having 96" platform, but no spacer)	1
38			CAP SCREW, HEX HEAD (1/2"-13, Grade 8)	6
	07-004089		2" long, for all except with 96" platform	
	07-004100		6" long, for **Model MP 40** with 96" platform	
	07-113400		8", long, for models with 96" platform **except MP 40**	
39	07-058400		NUT, LOCK (1/2"-13, Grade 8)	6
40	08-002200		BEARING, FLANGED (1-1/4" I.D., 1-1/2" O.D., 2" O.D. flange, 1-1/2" long)	2
41	See Index . .	C08. - -	PLATFORM CONTROL CONSOLE ASSEMBLY	1
42	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	4
43	07-062016		WASHER, FLAT (3/8")	8
44	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	4
45	See Index . .	D14. - -	VALVE, 4-WAY MANUAL (Platform level or rotate) (Earlier versions)	2
46	01-020800		VALVE, CHECK	1
47	01-000500		VALVE, NEEDLE	1

TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 3)	
PLATE NO. B04.16	**SIMON AERIALS INC.** NEW 01 DEC., 1994	PART NO.



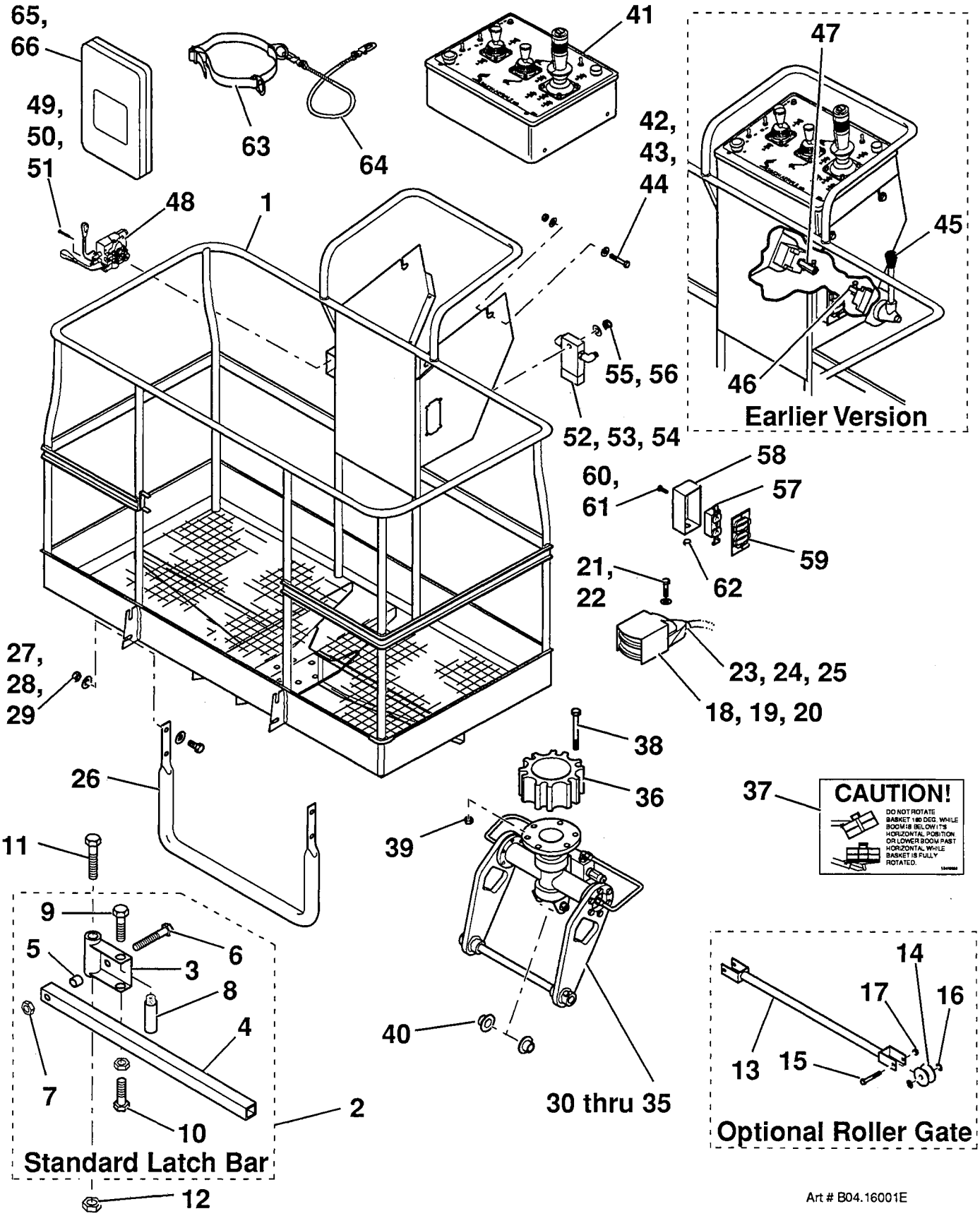
TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 3)		
SIMON AERIALS INC.	NEW 01 DEC., 1994	PART NO.	PLATE NO. B04.16

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
48	See Index . .	D14. - -	VALVE, PLATFORM LEVEL AND ROTATE (Later versions)	1
49	07-003009		CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5)	2
50	07-060014		WASHER, FLAT (1/4", SAE)	2
51	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2
52	01-001900		VALVE, CHECK (Pilot operated)	1
53	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F50X-S)	2
54	06-044400		90° ELBOW, STRAIGHT THREAD (4-6 C50X-S)	2
55	07-040015		NUT, HEX (5/16"-18, Grade 5)	2
56	07-065015		WASHER, HELICAL LOCK (5/16")	2
57	03-067000		OUTLET, DUPLEX (20 Amp, 110 Volt AC)	1
58	03-062100		BOX, DUPLEX OUTLET (Weatherproof)	1
59	03-062200		COVER, DUPLEX OUTLET (Weatherproof)	1
60	07-011355		MACHINE SCREW, ROUND HEAD (#10-24 x 3/4")	2
61	07-050011		NUT, LOCK (#10-24, Grade 2)	2
62	03-042000		CONNECTOR, CABLE (2 screw, 3/8")	1
63	10-034000		BELT, SAFETY	1
64	10-033900		LANYARD, SAFETY BELT	1
65	11-085200		BOX, TECHNICAL MANUAL STORAGE	1
66	07-029365		SCREW, HEX WASHER HEAD (#12 x 1", Self drilling, with rubber seal)	2
67	10-042500		COVER, CONSOLE CONTROLS (black vinyl) (option)	1
68	10-163800		STUD, BUTTON SNAP (stainless steel)	A.R.
69	07-099300		RIVET, BLIND (1/8" x 1/8", stainless steel)	A.R.
70	Call Simon		HOSE KIT, PLATFORM	1
			The following are also found on platform assemblies:	
71	205-4670		CLAMP, HOSE (2 hole, #4)	A.R.
72	07-062014		WASHER, FLAT (1/4")	A.R.
73	07-050014		NUT, LOCK (1/4"-20, Grade 5)	A.R.
74	03-066400		TIE, CABLE (20" [508 mm] long)	A.R.
75	03-064700		TIE, CABLE (14-1/2" [368 mm] long)	A.R.
76	03-064000		TIE, CABLE (7.4" [188 mm] long)	A.R.
77	03-064100		MOUNT, CABLE TIE (Adhesive backed)	A.R.
78	10-113000		PROTECTOR, HOSE (Neoprene, 8" x 12" x 1/8" thick)	A.R.
	10-113200		PROTECTOR, HOSE (Neoprene, 6" x 9" x 1/8" thick)	A.R.

TITLE PLATFORM ASSEMBLY, MP SERIES (PLATE 3 OF 3)

PLATE NO. B04.16 | **SIMON AERIALS INC.** NEW 01 DEC., 1994 | PART NO.

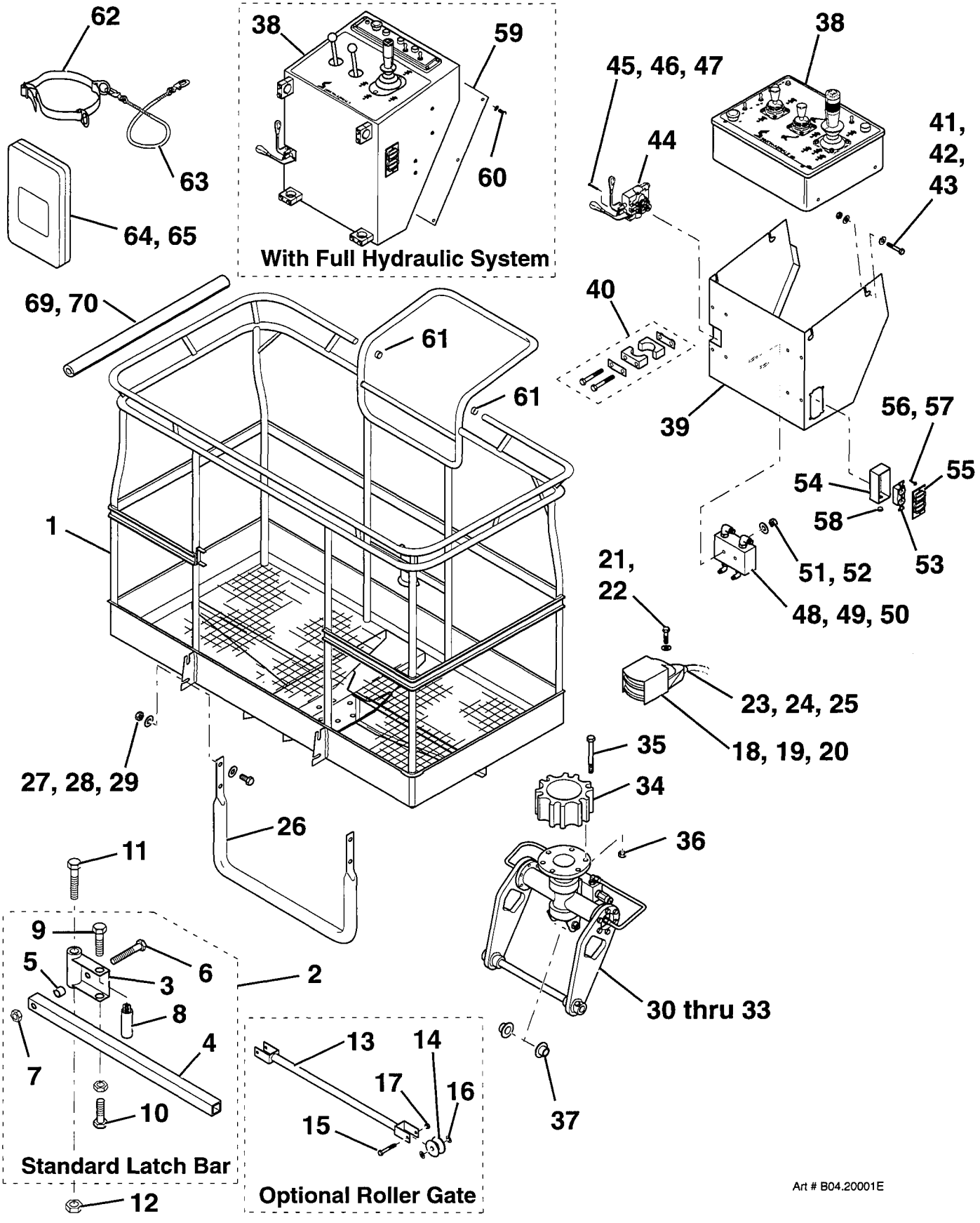


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 3 OF 3)		
SIMON AERIALS INC.	NEW 01 DEC., 1994	PART NO.	PLATE NO. B04.16

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			PLATFORM WELDMENT	
			(Standard type, with Rotary Actuator mounted **under** floor)	1
			For **Full Hydraulic** (with 3 "Joystick" controls) **or** "Type 2"	
			Electro-Proportional (with 3 "Joystick controls"):	
			Current style, with Platform Rotate and Level valves both inside left side of console:	
	231 4680		**MP** Series (36" x 72" [.91 M x 1.83 M]) (**Standard**)	
	232 4340		**MP** Series (36" x 96" [.91 M x 2.44 M]) (**Optional**)	
	219 5480		**MPN** Series (36" x 60" [.91 M x 1.52 M]) (**Standard**)	
2	351 4160		BAR ASSEMBLY, LATCH (standard "Lift and Swing" style)	1
3	204 1724		PIVOT, DOOR	1
4	207 6577		BAR, LATCH	1
5	204 1649		SPACER, LATCH BAR PIVOT	1
6	07-003047		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 5)	1
7	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	1
8	08-010100		SPRING AND TUBE ASSEMBLY	1
9	210 8380		SPACER	1
10	07-003043		CAP SCREW, HEX HEAD (3/8"-16 x 3/4", Grade 5)	1
11	07-003096		CAP SCREW, HEX HEAD (1/2"-13 x 3-3/4", Grade 5)	1
12	07-058400		NUT, LOCK (1/2"-13, Grade 8)	1
13	219 8520		BAR, GATE (optional pull up "Roller Gate" style)	1
14	219 8510		ROLLER, PULL UP GATE	2
15	07-003051		CAP SCREW, HEX HEAD (3/8"-16 x 2-1/2", Grade 5)	2
16	07-062016		WASHER, FLAT (7/16")	4
17	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	2
18	03-021300		SWITCH ASSEMBLY, FOOT (Single pole)	1
19	03-021301		SWITCH (Single pole, double throw)	1
20	03-021302		COVER, SWITCH (Guard type, with latch)	1
21	07-003003		CAP SCREW, HEX HEAD (1/4"-20 x 3/4", Grade 5) **or**	3
	07-003004		CAP SCREW, HEX HEAD (1/4"-20 x 7/8", Grade 5)	3
22	07-065014		WASHER, HELICAL LOCK (1/4")	3
23	03-045000		REDUCER (3/4" to 1/2")	1
24	03-045500		GRIP, CORD (1/2", with .31" to .38" seal) **or**	1
	03-063300		GRIP, CORD (90°, 1/2", with .31" to .38" seal)	1
25	03-085700		CABLE, ELECTRICAL (SJO, 4 conductor, #16 AWG)	
			(Bulk item, 7 Ft [2.1 M] required this application)	A.R.
26			STEP, PLATFORM	1
	214 6800		Standard version (17-1/2" [.44 M] high)	
	219 8710		Optional longer step (21-1/2" [.55 M] high)	
27	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	4
28	07-050016		NUT, LOCK (3/8"-16, Grade 5)	4
29	07-062016		WASHER, FLAT (7/16")	8

TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 3)		
PLATE NO. B04.20	**SIMON AERIALS INC.** REV. 28 FEB., 1995	**PART NO.**	



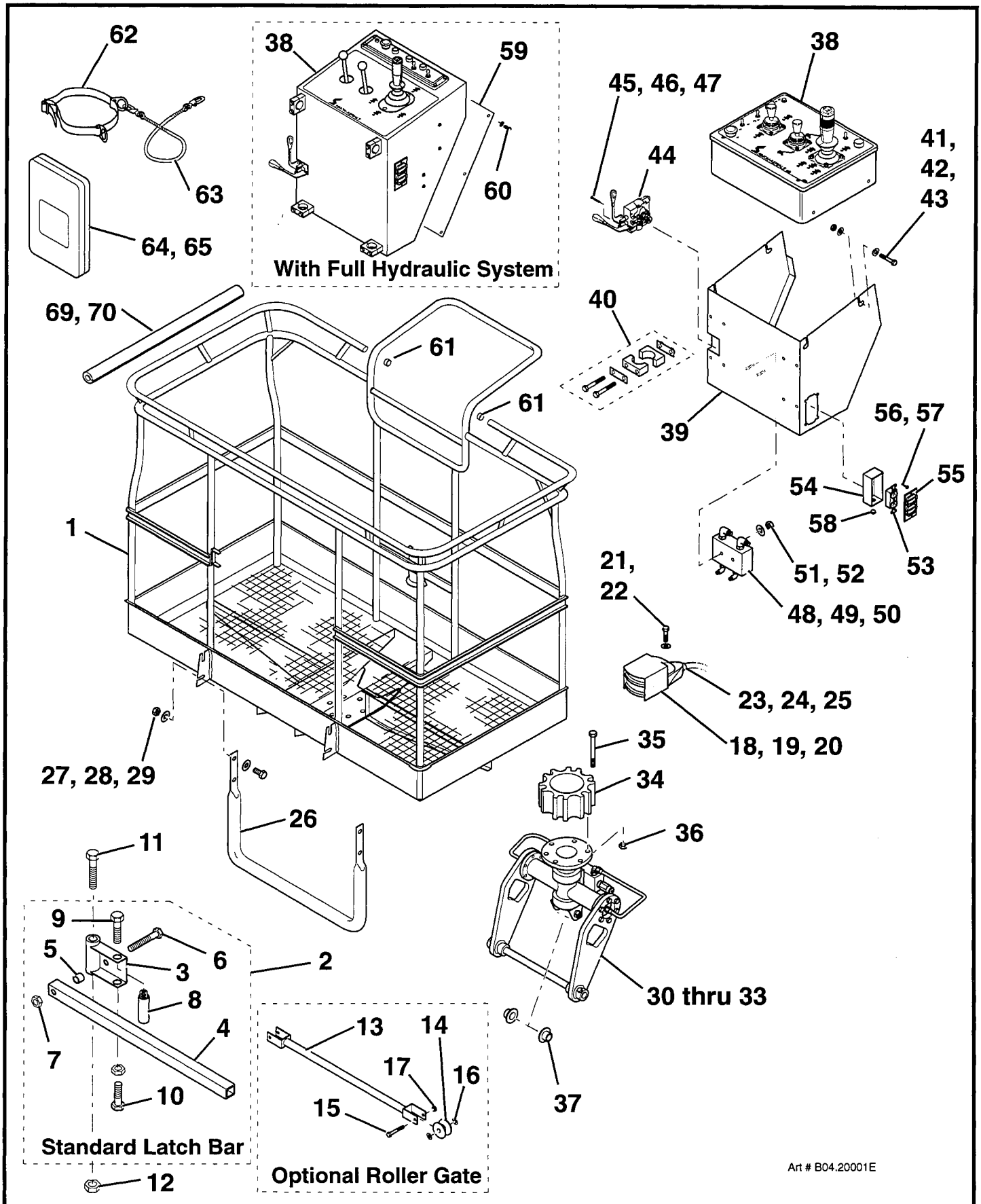
TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 3)		
SIMON AERIALS INC.	REV. 28 FEB., 1995	PART NO.	PLATE NO. B04.20

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
30	02-010600	D24.06	ACTUATOR, ROTARY (Helical type, 180°) (includes pins)	1
31			PIN, PLATFORM PIVOT (1-1/4" x 20")	1
	210 2940		except Canada (Standard type, included with actuator)	1
	219 4480		CSA standards (Specify if this type is needed)	1
32			PIN, SLAVE CYLINDER (1-1/4" x 7-3/8") (Rod end)	
	206 8879		except Canada (Standard type, included with actuator)	1
	219 4500		CSA standards (Specify if this type is needed)	1
33	08-040700		RING, RETAINING (1-1/4")	4
34			SPACER, ROTARY ACTUATOR (if required, see below)	1
	233 5380		for Model MP 40 using 96" platform (4" [102 mm] thick)	
	233 5510		for other than MP 40 with 96" platform (6" [152 mm] thick)	
	235 1980		for Model MP 70, special application (1-1/2" [38 mm] thick)	
35			CAP SCREW, HEX HEAD (1/2"-13, Grade 8)	6
	07-004089		2" long (for all versions not using rotary actuator spacer)	
	07-004095		3-1/2" long (for versions having 1-1/2" [38 mm] spacer)	
	07-004100		6" long (for versions having 4" [102 mm] spacer)	
	07-113400		8" long (for versions having 6" [152 mm spacer)	
36	07-058400		NUT, LOCK (1/2"-13, Grade 8)	6
37	08-002200		BEARING, FLANGED (1-1/4" I.D., 1-1/2" O.D., 2" O.D. flange, 1-1/2" long)	2
38	See Plate . .	C08. - -	PLATFORM CONTROL CONSOLE ASSEMBLY	1
39			BRACKET, CONSOLE MOUNTING	1
			With Full Hydraulic control (Part of Console Assembly)	
	231 4460		With Electro-Proportional control (includes [4] clamps)	
40	10-069600		CLAMP, TUBE (1-1/4" O.D.)	4
41	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	4
42	07-062016		WASHER, FLAT (3/8")	8
43	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	4
44	See Plate . .	D14. - -	VALVE, PLATFORM LEVEL AND ROTATE	1
45	07-003009		CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5)	2
46	07-060014		WASHER, FLAT (1/4", SAE)	2
47	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2
48	01-001900		VALVE, CHECK (Pilot operated)	1
49	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F50X-S)	2
50	06-044400		90° ELBOW, STRAIGHT THREAD (4-6 C50X-S)	2
51	07-040015		NUT, HEX (5/16"-18, Grade 5)	2
52	07-065015		WASHER, HELICAL LOCK (5/16")	2

TITLE PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 3)

PLATE NO.			PART NO.
B04.20	**SIMON AERIALS INC.**	REV. 30 AUG., 1995 THIS SHEET ONLY	

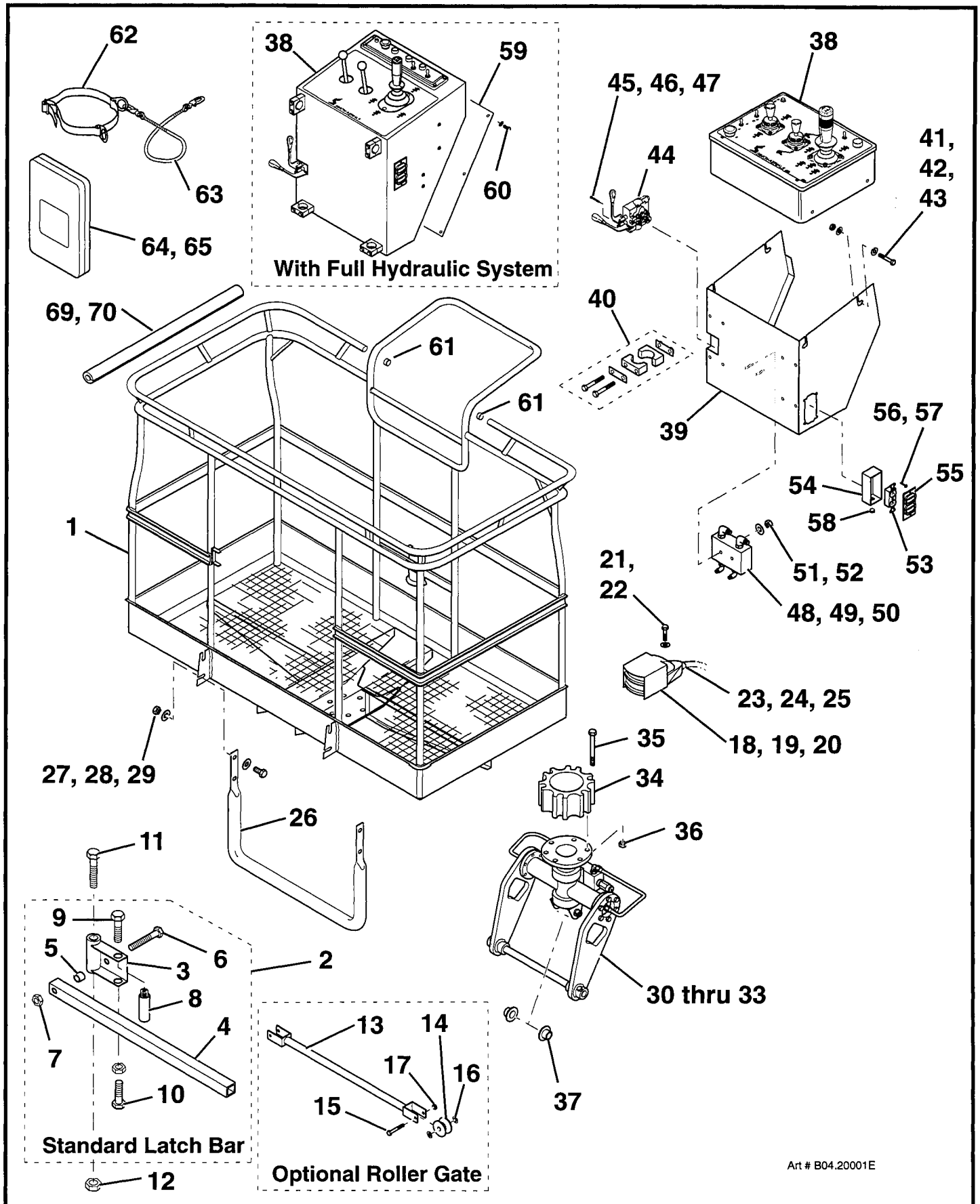


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 3)		
SIMON AERIALS INC. REV. 28 FEB., 1995		PART NO.	PLATE NO. B04.20

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
53			RECEPTACLE, ELECTRICAL CONVENIENCE	1
	03-067000		Duplex, 20 Amp, 110 Volt AC, Self-grounding	
	03-711300		Single, 20 Amp, 220 Volt AC	
54	03-062100		BOX, ELECTRICAL RECEPTACLE (Weatherproof)	1
55			COVER, ELECTRICAL RECEPTACLE (Weatherproof)	1
	03-062200		For standard 110 Volt Duplex outlet	
	03-711400		For single 220 Volt outlet	
56	07-011355		MACHINE SCREW, ROUND HEAD (#10-24 x 3/4")	2
57	07-050011		NUT, LOCK (#10-24, Grade 2)	2
58	03-042000		CONNECTOR, CABLE (2 screw, 3/8")	1
59	219 9060		COVER, CONTROL CONSOLE (Full Hydraulic only)	1
60	07-029365		SCREW, HEX WASHER HEAD	
			(#12 x 1", Self drilling, with rubber seal)	2
61	11-203300		CAPLUG (1-1/4" I.D.)	2
62	10-034000		BELT, SAFETY	1
63	10-033900		LANYARD, SAFETY BELT	1
64	11-085200		BOX, TECHNICAL MANUAL STORAGE	1
65	07-029365		SCREW, HEX WASHER HEAD	
			(#12 x 1", Self drilling, with rubber seal)	2
66			COVER, CONSOLE CONTROLS (black vinyl) (option)	1
	10-042500		With Electro-Proportional controls	
	10-159100		With Full Hydraulic controls (for optional metal cover, see Plate B04.299)	
67	10-163800		STUD, BUTTON SNAP (stainless steel)	4
68	07-099300		RIVET, BLIND (1/8" x 1/8", stainless steel)	4
69	10-063200		TUBING, FOAM INSULATION (option)	
			(1-1/8" [29 mm] I.D., 1" [25.4 mm] wall)	A.R.
70	10-089500		TAPE, MARKING (to wrap optional foam tubing)	
			(Yellow, 2" [51 mm] wide x 36 Yd. [32.9 M] long roll)	A.R.
71	353 7390		HOSE KIT, PLATFORM (Electro-Proportional)	1
	353 7260		HOSE KIT, PLATFORM (Full Hydraulic)	1
			The following are also found on platform assemblies:	
72	205 4670		CLAMP, HOSE (2 hole, #4)	A.R.
73	07-062014		WASHER, FLAT (1/4")	A.R.
74	07-050014		NUT, LOCK (1/4"-20, Grade 5)	A.R.
75	03-066400		TIE, CABLE (20" [508 mm] long)	A.R.
76	03-064700		TIE, CABLE (14-1/2" [368 mm] long)	A.R.
77	03-064000		TIE, CABLE (7.4" [188 mm] long)	A.R.
78	03-064100		MOUNT, CABLE TIE (Adhesive backed)	A.R.
79	10-113000		PROTECTOR, HOSE (Neoprene, 8" x 12" x 1/8" thick)	A.R.
	10-113200		PROTECTOR, HOSE (Neoprene, 6" x 9" x 1/8" thick)	A.R.

TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 3 OF 3)	
PLATE NO. B04.20	**SIMON AERIALS INC.** REV. 28 FEB., 1995	PART NO.



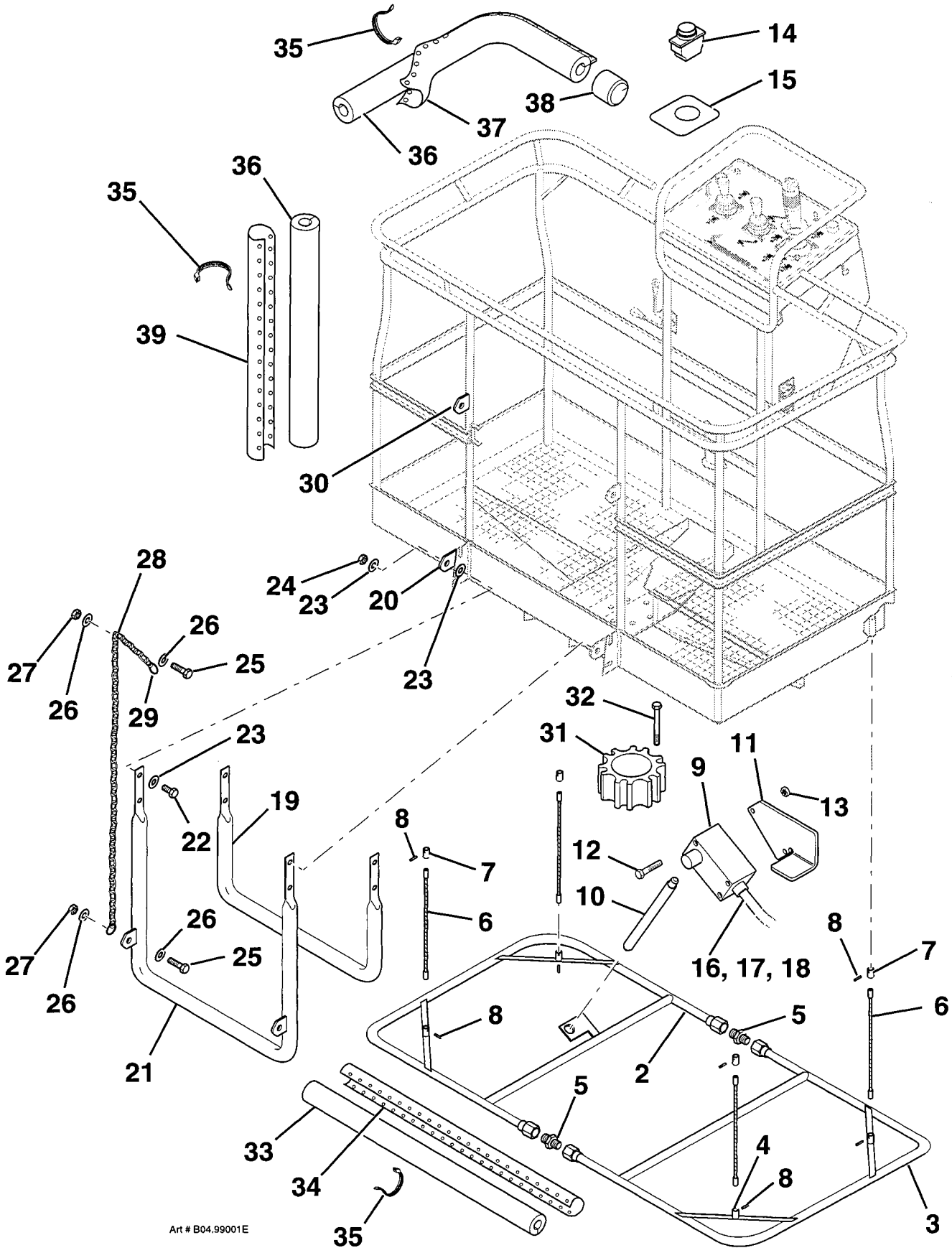
TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 3 OF 3)		
SIMON AERIALS INC.	REV. 28 FEB., 1995	PART NO.	PLATE NO. B04.20

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SENSOR RING PACKAGE	1
	Call Simon		for 36" x 60" (.91 M x 1.52 M) Platform	
	234 5620		for 36" x 72" (.91 M x 1.83 M) Platform	
	Call Simon		for 36" x 96" (.91 M x 2.44 M) Platform	
1			SENSOR RING ASSEMBLY	1
	Call Simon		for 36" x 60" (.91 M x 1.52 M) Platform	
	234 5530		for 36" x 72" (.91 M x 1.83 M) Platform	
	Call Simon		for 36" x 96" (.91 M x 2.44 M) Platform	
2			SENSOR RING HALF (with limit switch actuator plate)	
			(includes [2] collars, 217 3950)	1
	Call Simon		for 36" x 60" (.91 M x 1.52 M) Platform	
	234 5540		for 36" x 72" (.91 M x 1.83 M) Platform	
	Call Simon		for 36" x 96" (.91 M x 2.44 M) Platform	
3			SENSOR RING HALF (without limit switch actuator plate)	
			(includes [2] collars, 217 3950)	1
	Call Simon		for 36" x 60" (.91 M x 1.52 M) Platform	
	231 4490		for 36" x 72" (.91 M x 1.83 M) Platform	
	Call Simon		for 36" x 96" (.91 M x 2.44 M) Platform	
4	217 3950		COLLAR, SENSOR RING	4
5	06-015300		UNION (12 HTX-S)	2
6	218 3350		WIRE ROPE ASSEMBLY	4
7	217 3950		COLLAR, SENSOR RING (welded to platform)	4
8	07-023600		SET SCREW, SOCKET HEAD (1/4"-20 x 1/2", Grade 5)	8
9	03-428300		SWITCH, LIMIT	1
10	217 5320		ROD, SENSOR RING SWITCH	1
11	234 5550		BRACKET, SWITCH MOUNTING	1
12	07-003006		CAP SCREW, HEX HEAD (1/4"-20 x 1-1/4", Grade 5)	2
13	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	2
14	03-020300		SWITCH, PUSHBUTTON (Sensor ring override)	1
15	10-116800		DECAL, "SENSOR RING OVERRIDE . . ."	1
16	03-085200		CABLE, ELECTRICAL (SJO, 2 conductor, #16 AWG)	
			(Bulk item, order as needed. 7 Ft. [2.1 M] needed here)	A.R.
17	03-045500		GRIP, CORD (1/2")	2
18	03-055500		NUT, CONDUIT LOCK (1/2")	1

TITLE: PLATFORM SENSOR RING ASSEMBLY (PLATE 1 OF 2)

PLATE NO. B04.99 | **SIMON AERIALS INC.** NEW 23 MAR., 1995 | PART NO.

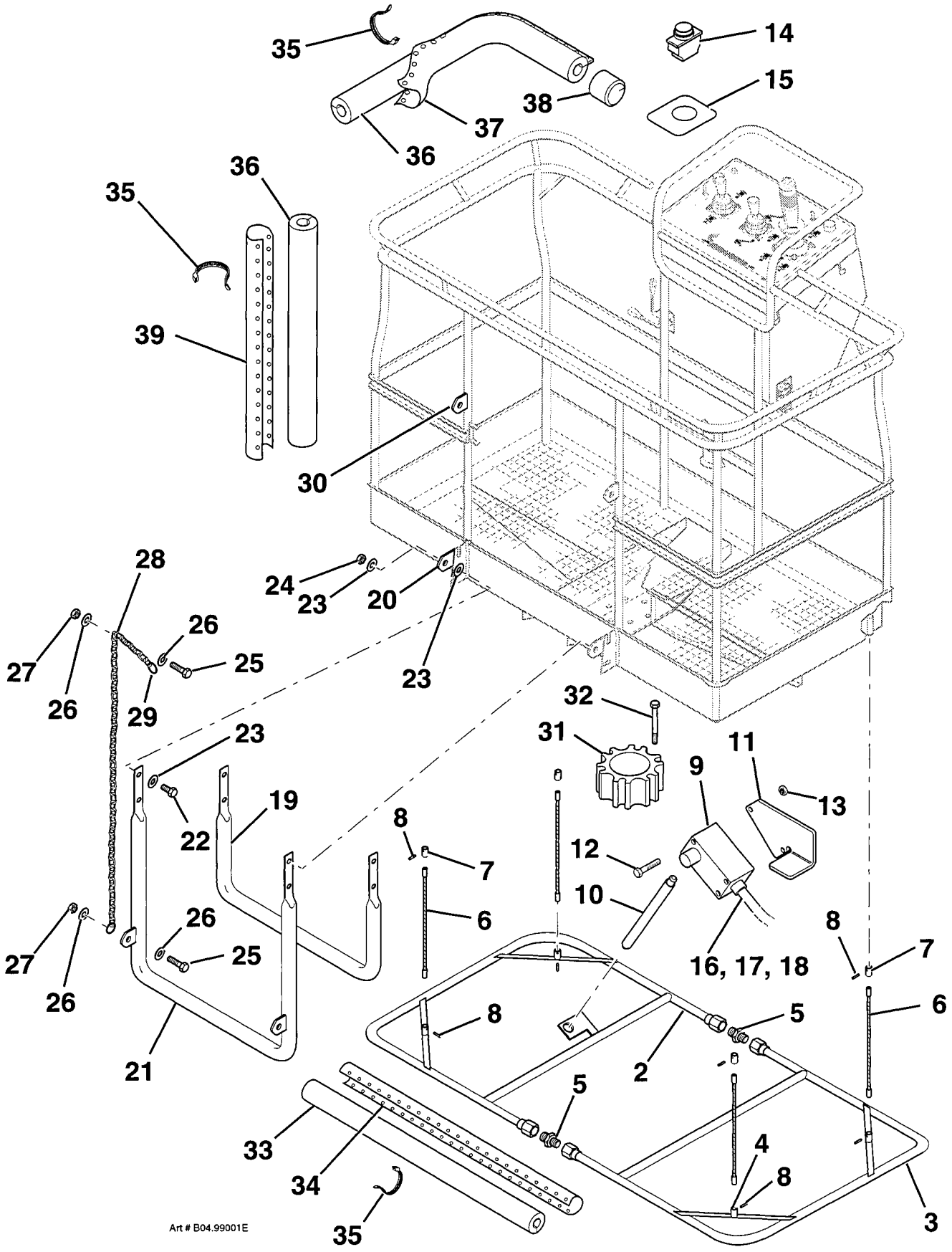


TITLE	PLATFORM SENSOR RING ASSEMBLY (PLATE 1 OF 2)		
SIMON AERIALS INC. NEW 23 MAR., 1995		PART NO.	PLATE NO. B04.99

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
19	234 5560		STEP, FIXED (12-1/4" [.31 M] long) (replaces step found on standard platform)	1
20	234 5570		TAB, STEP MOUNTING	2
21	234 5590		STEP, FOLDING (28-1/8" [.71 M] long)	1
22	07-003065		CAP SCREW, HEX HEAD (7/16"-14 x 1", Grade 5)	2
23	07-062017		WASHER, FLAT (7/16")	6
24	07-050017		NUT, HEX LOCK (7/16"-14, Grade 5)	2
25	07-003026		CAP SCREW, HEX HEAD (5/16"-18 x 1-1/4", Grade 5)	4
26	07-062015		WASHER, FLAT (5/16")	8
27	07-050015		NUT, HEX LOCK (5/16"-18, Grade 5)	4
28	234 5610		CHAIN (For side with hook. Approx. 47.7" [1.21 M] long)	1
	234 5600		CHAIN (Side without hook. Approx. 45.2" [1.15 M] long)	1
29	11-078000		HOOK, SNAP	1
30	208 4608		TAB, CHAIN MOUNTING	2
31	233 5510		SPACER, PLATFORM (6" [152 mm])	1
32	07-113400		CAP SCREW, HEX HEAD (1/2"-13 x 8", Grade 8)	6
33	10-063300		TUBING, SPONGE INSULATION (7/8" I.D., 1" wall) (6 Ft. [1.8 M] section) (4) needed for 36" x 72" platform	A.R.
34			COVER, SENSOR RING (Black, vinyl coated nylon)	2
	Call Simon		for 36" x 60" Platform	
	10-259301		for 36" x 72" Platform (131" [3.3 M] long)	
	Call Simon		for 36" x 96" Platform	
35	03-064000		TIE, CABLE (7.4" [188 mm] long)	208
36	10-063200		TUBING, SPONGE INSULATION (1-1/8" I.D., 1" wall) (6 Ft. [1.8 M] section)	6
37			COVER, TOP RAIL (Black, vinyl coated nylon)	1
	Call Simon		for 36" x 60" Platform	
	10-255406		for 36" x 72" Platform (212" [5.4 M] long)	
	Call Simon		for 36" x 96" Platform	
38	10-255500		CAP, END (Black, vinyl coated nylon)	2
39	10-255407		COVER, PLATFORM CORNER (Black, vinyl coated nylon) (41" [1.04 M] long)	4

TITLE	PLATFORM SENSOR RING ASSEMBLY (PLATE 2 OF 2)	
PLATE NO. B04.99	**SIMON AERIALS INC.** NEW 23 MAR., 1995	PART NO.

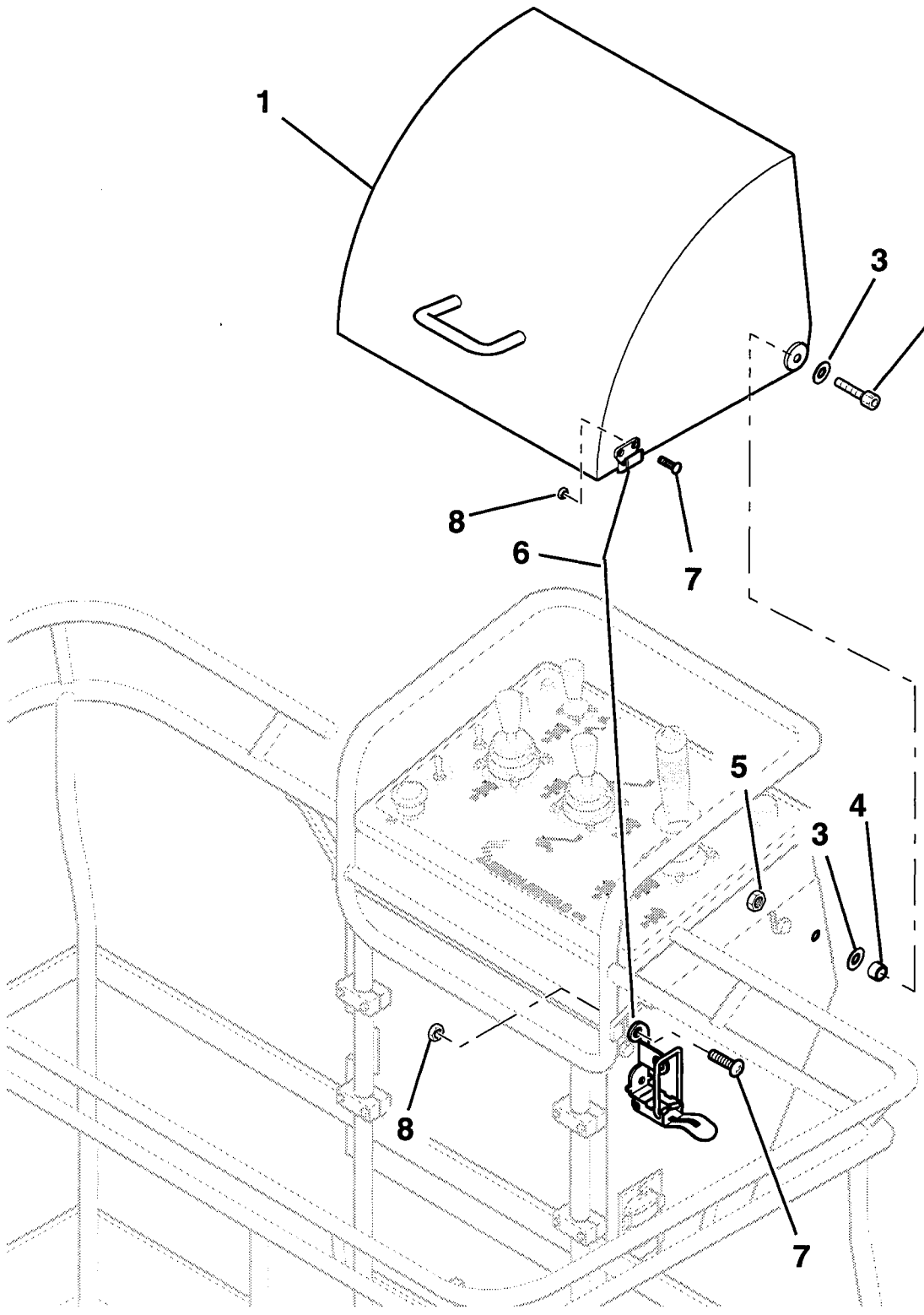


TITLE	PLATFORM SENSOR RING ASSEMBLY (PLATE 2 OF 2)		
SIMON AERIALS INC.	NEW 23 MAR., 1995	PART NO.	PLATE NO. B04.99

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2326430		COVER WELDMENT, PLATFORM CONSOLE	1
2	07-017046		CAP SCREW, BUTTON HEAD (3/8"-16 x 1-1/4", Hex socket, Grade 5)	2
3	07-062016		WASHER, FLAT (3/8")	4
4	06-059000		SLEEVE (6 TX-S Hydraulic Fitting)	2
5	07-040016		NUT, HEX (3/8"-16, Grade 5)	2
6	10-030100		LATCH, DRAW	2
7	07-013414		MACHINE SCREW, ROUND HEAD (#10-32 x 1/2", Grade 2)	4
8	07-040111		NUT, HEX LOCK (#10-32, Grade 5)	4

TITLE	PLATFORM CONSOLE COVER ASSEMBLY, MP/ RP SERIES			
PLATE NO.	B04.299	**SIMON AERIALS INC.**	REV. 27 OCT., 1994	PART NO. 2326440



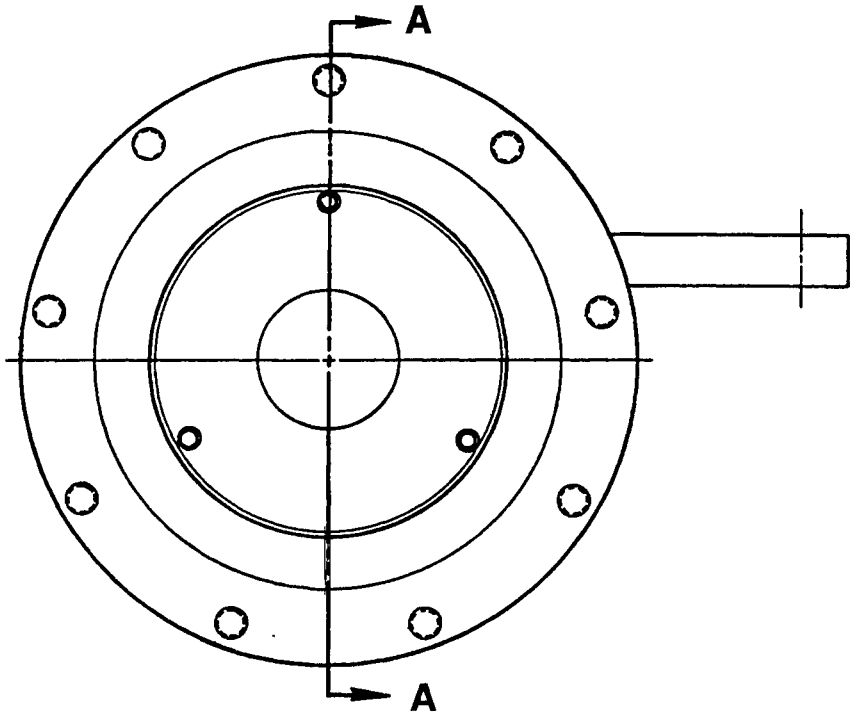
Art # B04.29901E

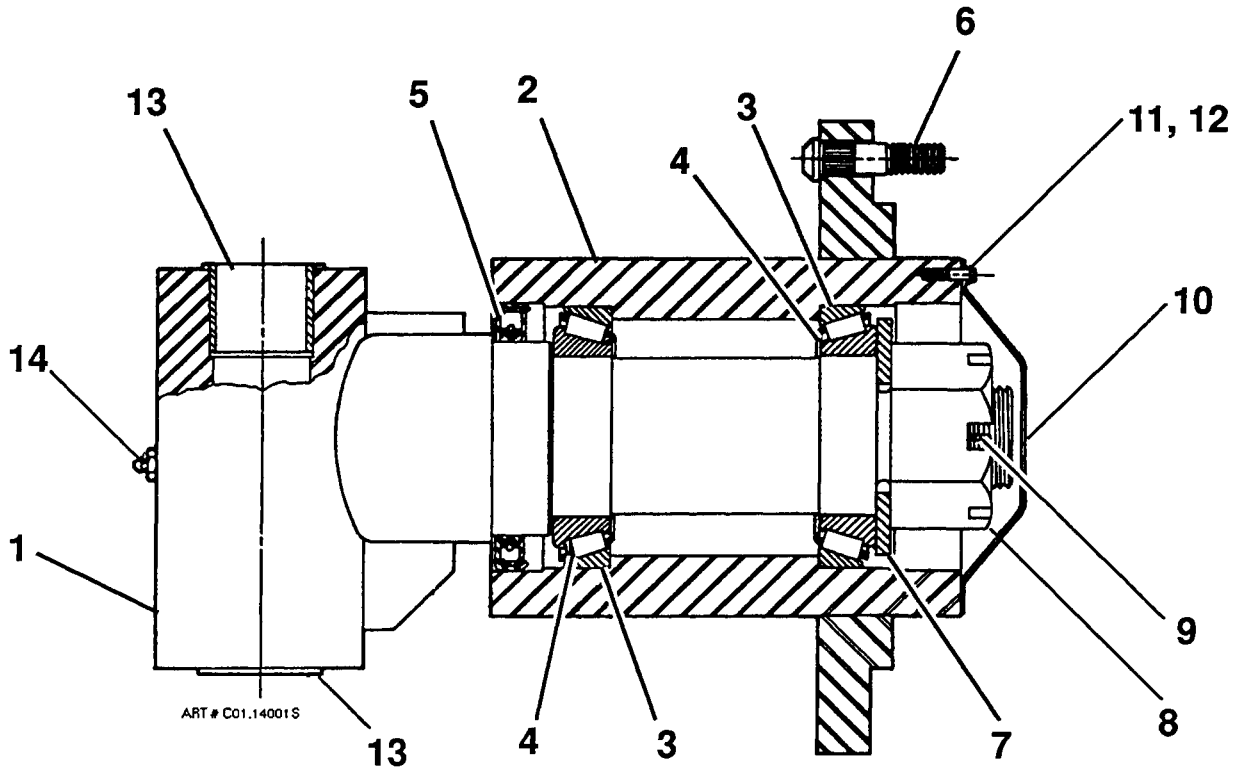
TITLE	PLATFORM CONSOLE COVER ASSEMBLY, MP/ RP SERIES		
SIMON AERIALS INC. REV. 27 OCT., 1994		PART NO. 2326440	PLATE NO. B04.299

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SPINDLE ASSEMBLY (Right)	1
	2061847		Type 1 (see note at item 1)	1
	3502495		Type 2 (see note at item 1)	1
			Note: the **"Type 1"** or **"Type 2"** spindle is original equipment on:	
			all Model MPN 55 and MPN 60, earlier Model MP 50, all Model MP 60 and MP 70, and earlier Model MP 80 (serial numbers under AEA 01427).	
			On a **"Type 1"** or **"Type 2"** spindle, the seal (item 5) has an outside diameter of 4-1/2" (114 mm).	
1	2024390		SPINDLE (Right) (Type 1)	1
			Note: the **"Type 1"** spindle consists of three pieces (spindle, pin tube and steering arm) welded together.	
	2070702		SPINDLE (Right) (Type 2)	1
			Note: the **"Type 2"** spindle consists of two pieces welded together (pin housing and spindle are machined from one block of metal, with steering arm welded to it).	
2	2022585		HUB, SPINDLE	1
3	08-003400		CUP, BEARING (4.437" O.D.)	2
4	08-003500		CONE AND ROLLER, BEARING (2.750" I.D.)	2
5	01-030700		SEAL, SHAFT OIL (3-1/4" I.D., 4-1/2" O.D.)	1
6	07-030651		STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5)	10
7	07-062027		WASHER, FLAT (1-3/4")	1
8	07-045227		NUT, HEX (Slotted) (1-3/4"-12, Grade 5)	1
9	07-070511		PIN, COTTER (1/8" x 2-1/2" long)	1
10	2021131		PLATE, SPINDLE END COVER	1
11	07-003001		CAP SCREW, HEX HEAD (1/4" - 20 X 1/2", Grade 5)	3
12	07-065014		WASHER, HELICAL LOCK (1/4")	3
13	08-002000		BEARING, FLANGED (used prior to September 1984)	
			(1-1/2" I.D., 1-3/4" O.D., 1-1/2" long; 2" dia. x 3/32" flange)	2
	08-014000		BEARING SLEEVE (used beginning September 1984)	
			(1-1/2" I.D., 1-1/2" long)	2
14	08-051300		FITTING, GREASE (1/8", 90°)	1

TITLE	SPINDLE ASSEMBLY, RIGHT HAND		
PLATE NO. C01.05	**SIMON AERIALS INC.**	REV. 12 MAR., 1993	PART NO.





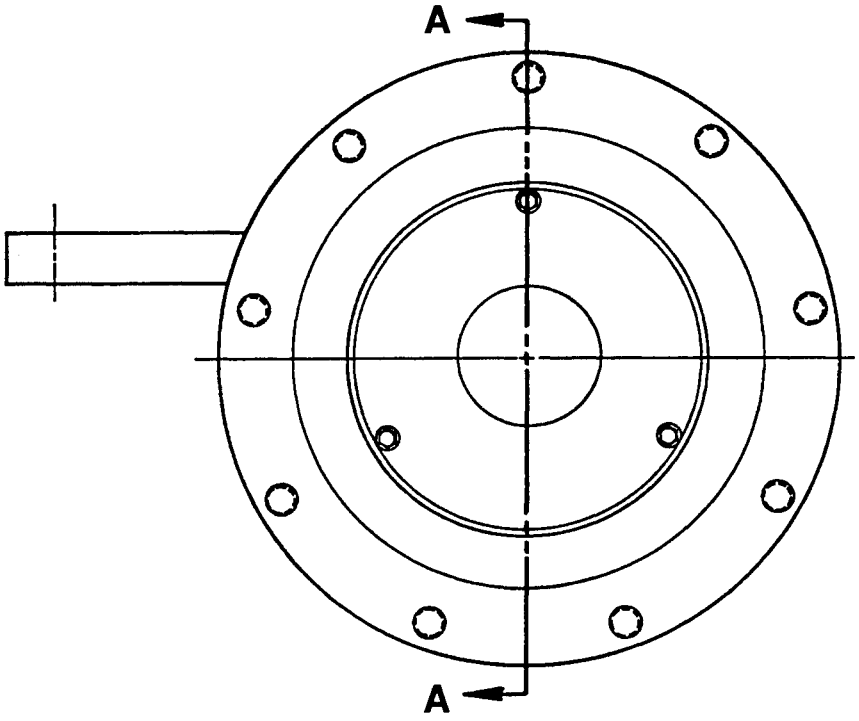
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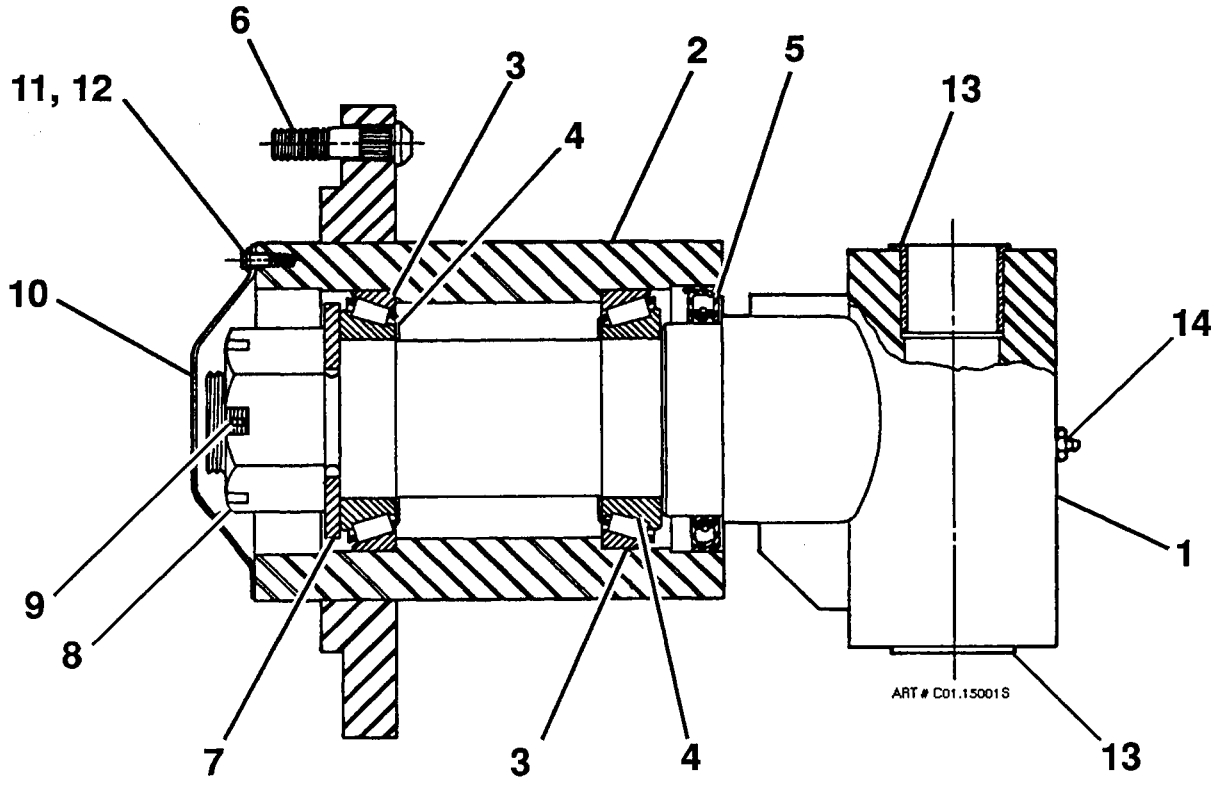
TITLE	SPINDLE ASSEMBLY, RIGHT HAND		
SIMON AERIALS INC. REV. 12 MAR., 1993		PART NO.	PLATE NO. C01.05

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SPINDLE ASSEMBLY (Left)	1
	2061834		Type 1 (see note at item 1)	1
	3503089		Type 2 (see note at item 1)	1
			Note: the **"Type 1"** or **"Type 2"** spindle is original equipment on:	
			all Model MPN 55 and MPN 60,	
			earlier Model MP 50,	
			all Model MP 60 and MP 70, and	
			earlier Model MP 80 (serial numbers under AEA 01427).	
			On a **"Type 1"** or **"Type 2"** spindle, the seal (item 5) has an outside diameter of 4-1/2" (114 mm).	
1	2024408		SPINDLE (Left) (Type 1)	1
			Note: the **"Type 1"** spindle consists of three pieces (spindle, pin tube and steering arm) welded together.	
	2070711		SPINDLE (Left) (Type 2)	1
			Note: the **"Type 2"** spindle consists of two pieces welded together (pin housing and spindle are machined from one block of metal, with steering arm welded to it).	
2	2022585		HUB, SPINDLE	1
3	08-003400		CUP, BEARING (4.437" O.D.)	2
4	08-003500		CONE AND ROLLER, BEARING (2.750" I.D.)	2
5	01-030700		SEAL, SHAFT OIL (3-1/4" I.D., 4-1/2" O.D.)	1
6	07-030651		STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5)	10
7	07-062027		WASHER, FLAT (1-3/4")	1
8	07-045227		NUT, HEX (Slotted) (1-3/4"-12, Grade 5)	1
9	07-070511		PIN, COTTER (1/8" x 2-1/2" long)	1
10	2021131		PLATE, SPINDLE END COVER	1
11	07-003001		CAP SCREW, HEX HEAD (1/4" - 20 X 1/2", Grade 5)	3
12	07-065014		WASHER, HELICAL LOCK (1/4")	3
13	08-002000		BEARING, FLANGED (used prior to September 1984)	
			(1-1/2" I.D., 1-3/4" O.D., 1-1/2" long; 2" dia. x 3/32" flange)	2
	08-014000		BEARING SLEEVE (used beginning September 1984)	
			(1-1/2" I.D., 1-1/2" long)	2
14	08-051300		FITTING, GREASE (1/8", 90°)	1

TITLE	SPINDLE ASSEMBLY, LEFT HAND			
PLATE NO.	C01.06	**SIMON AERIALS INC.**	REV. 12 MAR., 1993	PART NO.





SECTION "A" - "A"

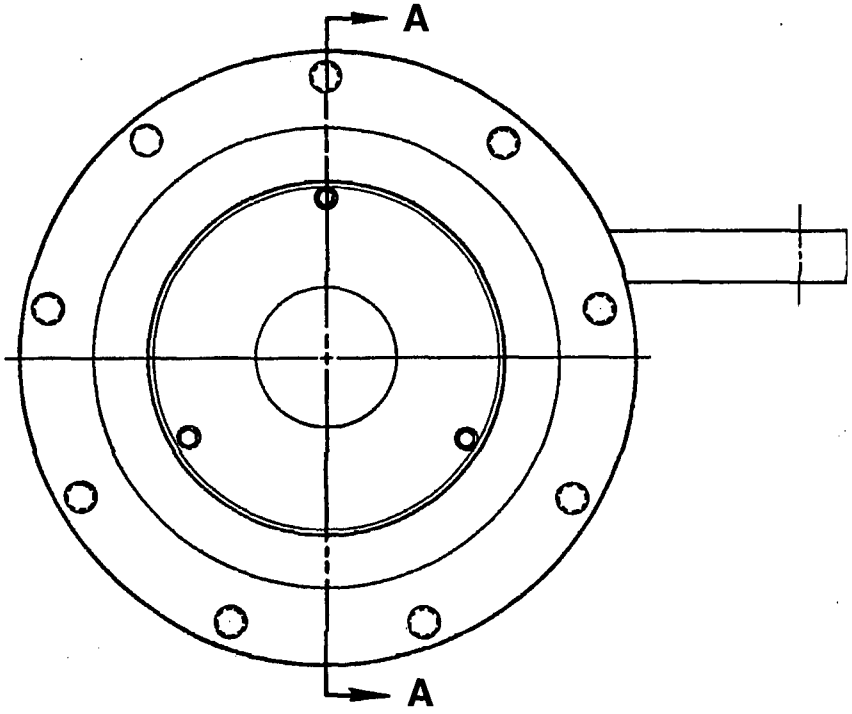
TITLE	SPINDLE ASSEMBLY, LEFT HAND		
SIMON AERIALS INC. REV. 12 MAR., 1993		PART NO.	PLATE NO. C01.06

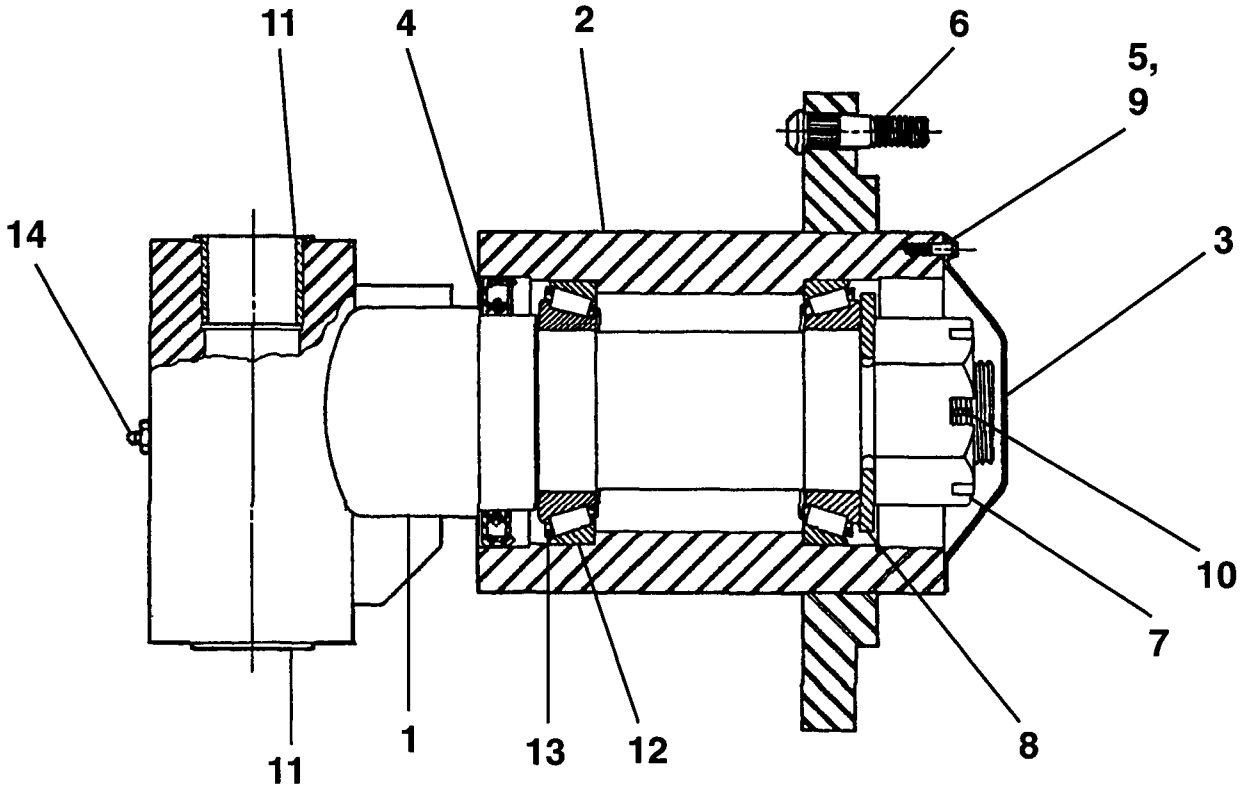
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	202748-9		SPINDLE, R.H.	1
2	202645-7		SPINDLE HUB	1
3	202113-1		PLATE, COVER	1
4	01-030700		OIL SEAL, SHAFT	1
5	07-003001		HEX HEAD CAPSCREW (1/4-20 X 1/2 LG.)	3
6	07-030618		STUD, WHEEL (9/16-18 X 2 1/8 LG.)	9
7	07-045227		NUT, HEX SLOTTED (1 3/4-12 UN)	1
8	07-062027		FLATWASHER (1 3/4)	1
9	07-065014		LOCKWASHER (1/4)	3
10	07-070511		COTTER PIN (1/8 X 2 1/2 LG.)	1
11	08-002000		BUSHING	2
12	08-003400		BEARING CUP	2
13	08-003500		ROLLER BEARING CONE	2
14	08-050000		GREASE FITTING	1

TITLE: SPINDLE ASSEMBLY, RIGHT HAND

PLATE NO. C01.09 | **SIMON AERIALS INC.** REV. 10 OCT. 1994 | PART NO. 206181-2





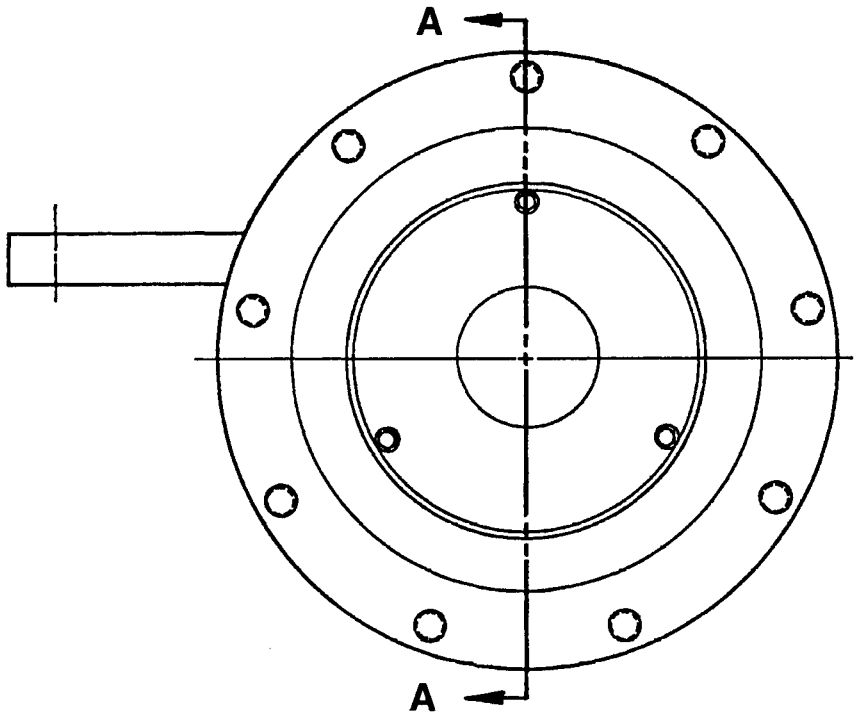
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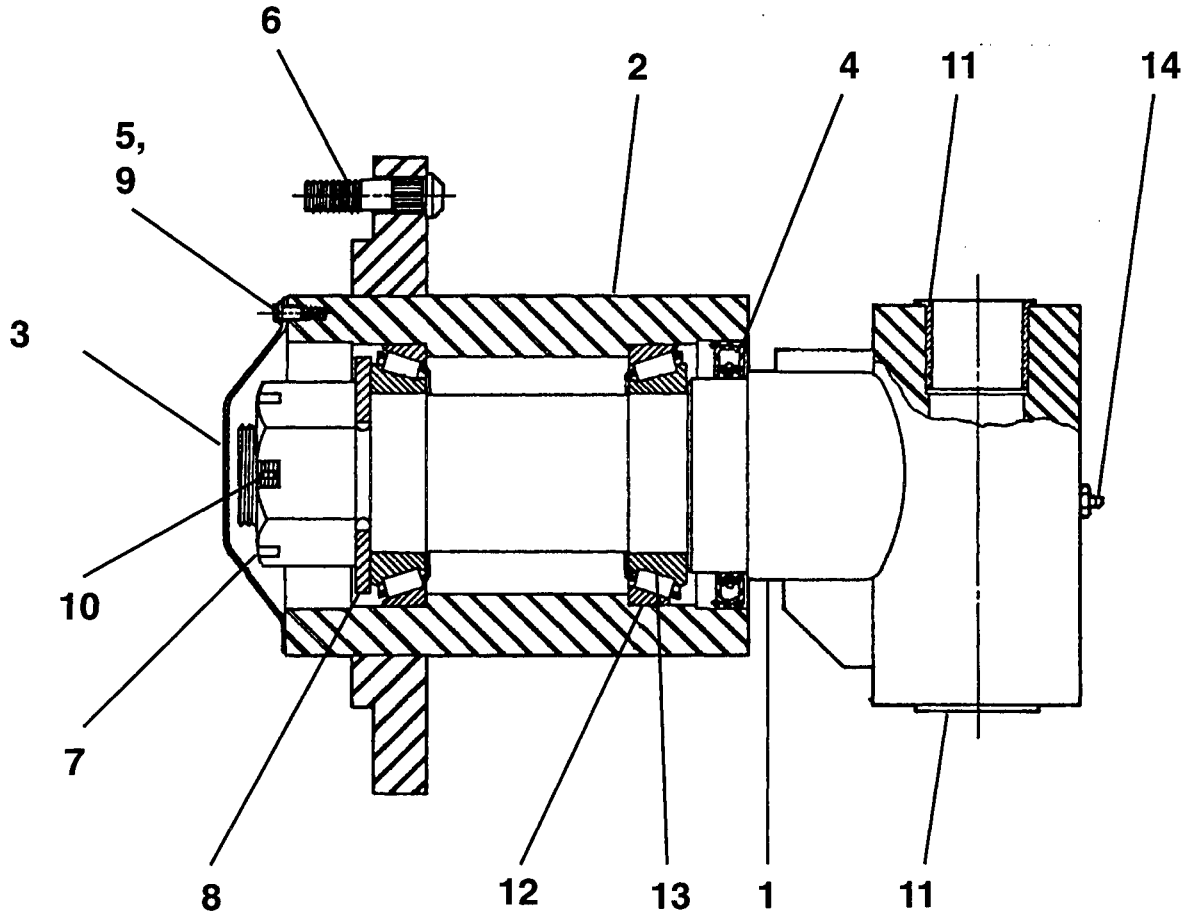
TITLE	SPINDLE ASSEMBLY, RIGHT HAND		
SIMON AERIALS INC. REV. 10 OCT. 1994	PART NO. 206181-2	PLATE NO. C01.09	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	202747-4		SPINDLE, L.H.	1
2	202645-7		SPINDLE HUB	1
3	202113-1		PLATE, COVER	1
4	01-030700		OIL SEAL, SHAFT	1
5	07-003001		HEX HEAD CAPSCREW (1/4-20 X 0.50" LG.)	3
6	07-030618		STUD, WHEEL (9/16-18 X 2.12" LG.)	9
7	07-045227		NUT, HEX SLOTTED (1 3/4-12 UN)	1
8	07-062027		FLATWASHER (1 3/4)	1
9	07-065014		LOCKWASHER (1/4)	3
10	07-070511		COTTER PIN (1/8 X 2.50 LG)	1
11	08-002000		BUSHING	2
12	08-003400		BEARING CUP	2
13	08-003500		ROLLER BEARING CONE	2
14	08-050000		GREASE FITTING	1

TITLE	SPINDLE ASSEMBLY, LEFT HAND	
PLATE NO. C01.10	**SIMON AERIALS INC.** REV. 10 OCT. 1994	PART NO. 206182-9





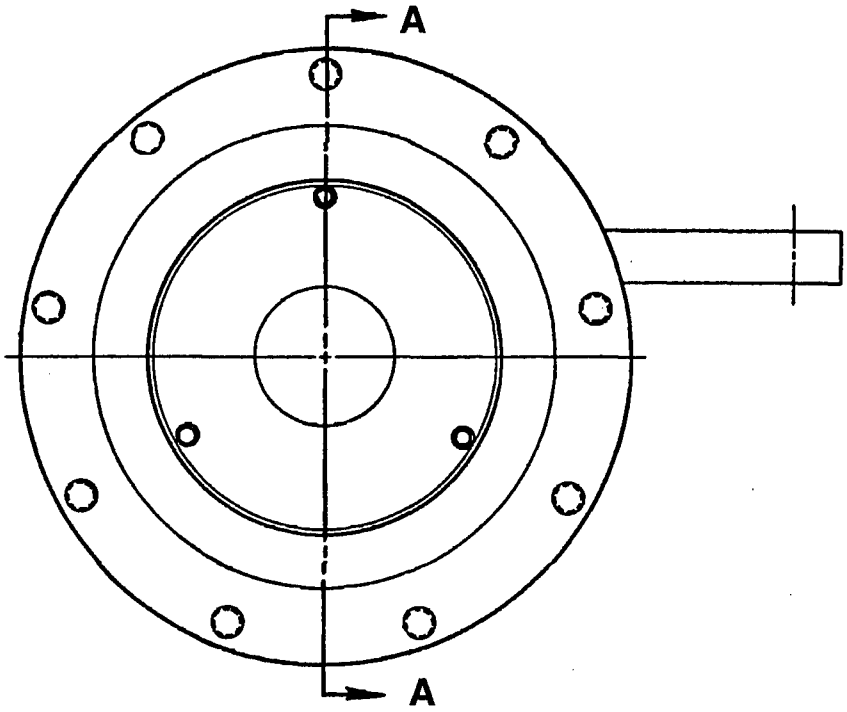
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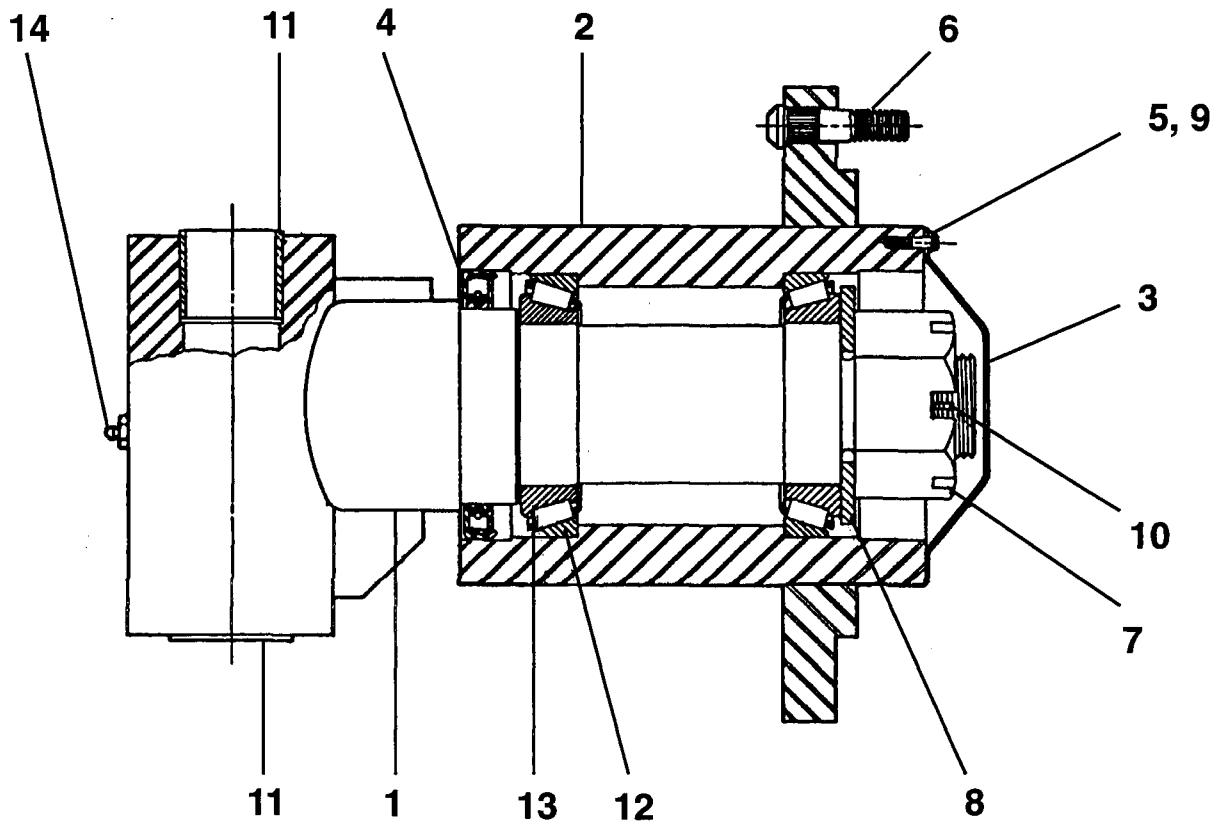
TITLE	SPINDLE ASSEMBLY, LEFT HAND		
SIMON AERIALS INC. REV.10 OCT. 1994		PART NO. 206182-9	PLATE NO. C01.10

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	207385-3		SPINDLE, R.H.	1
2	202258		HUB, SPINDLE	1
3	202113-1		PLATE, COVER	1
4	01-030700		OIL SEAL, SHAFT	1
5	07-003001		HEX HEAD CAPSCREW (1/4-20 X 1/2 LG.)	3
6	07-030651		STUD, WHEEL (3/4-16 X 2-1/2 UN)	10
7	07-045227		NUT, HEX SLOTTED (1-3/4-12 UN)	1
8	07-062027		FLATWASHER (1-3/4)	1
9	07-065014		LOCKWASHER (1/4)	3
10	07-070511		COTTER PIN (1/8 X 2-1/2 LG.)	1
11	08-014000		BEARING, SLEEVE	2
12	08-003400		CUP, BEARING	2
13	08-003500		CONE, ROLLER BEARING	2
14	08-050000		FITTING, GREASE	1

TITLE	SPINDLE ASSEMBLY, R. H.	
PLATE NO. C01.11	**SIMON AERIALS INC.** REV. 13 OCT. 1994	PART NO. 208476-5





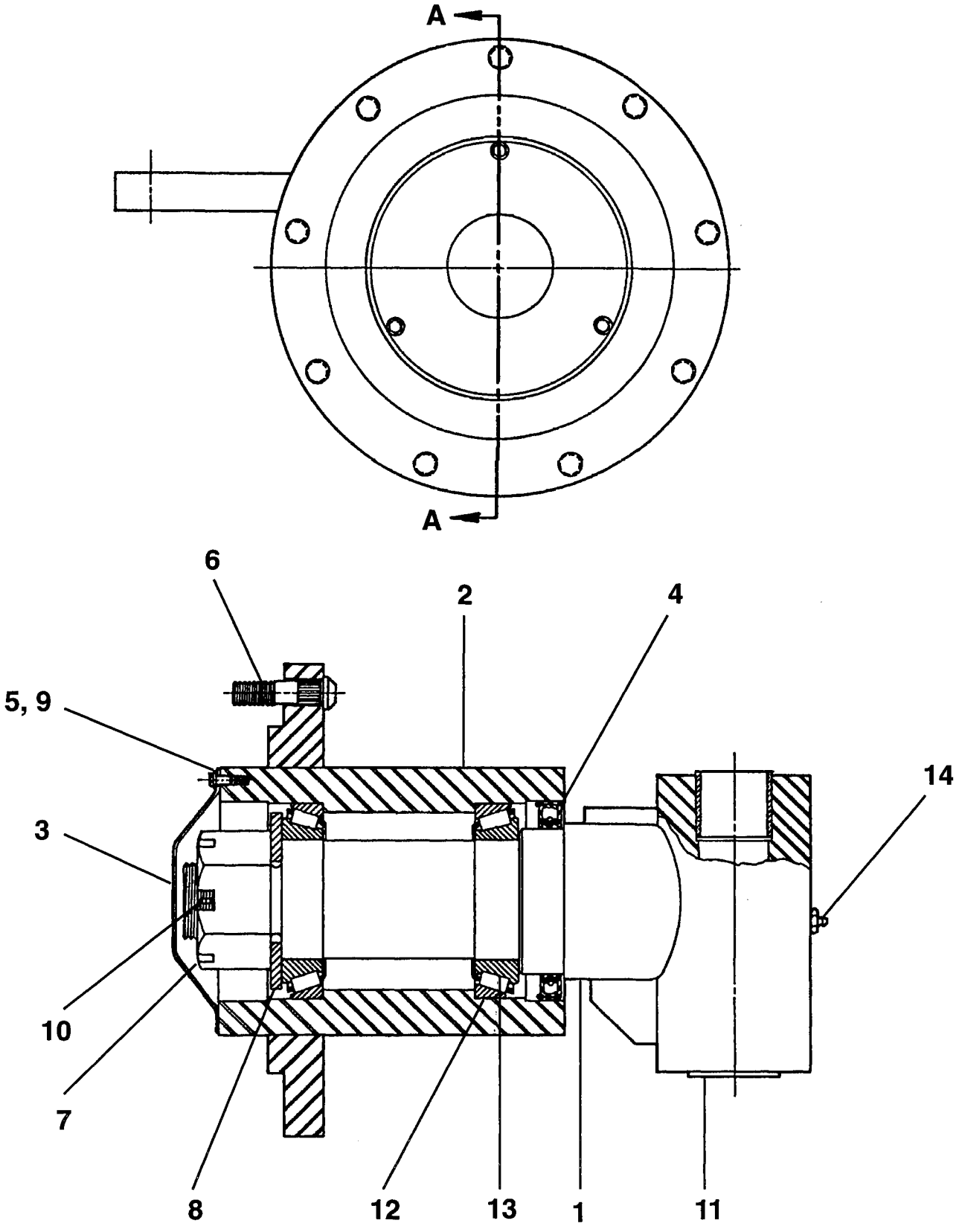
SECTION 'A' - 'A'

TITLE	SPINDLE ASSEMBLY, R. H.		
SIMON AERIALS INC. REV. 13 OCT. 1994	PART NO. 208476-5	PLATE NO. C01.11	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	207384-2		SPINDLE, L.H.	1
2	202258-2		HUB, SPINDLE	1
3	202113-1		PLATE, COVER	1
4	01-030700		OIL SEAL, SHAFT	1
5	07-003001		HEX HEAD CAPSCREW (1/4-20 X .50" LG.)	3
6	07-030651		STUD, WHEEL (3/4-16 X 2-1/2 LG.)	10
7	07-045227		NUT, HEX SLOTTED (1-3/4-12 UN)	1
8	07-062027		FLATWASHER (1-3/4")	1
9	07-065014		LOCKWASHER (1/4)	3
10	07-070511		COTTER PIN (1/8 X 2-1/2 LG.)	1
11	08-014000		BEARING, SLEEVE	2
12	08-003400		CUP, BEARING	2
13	08-003500		CONE, BEARING ROLLER	2
14	08-050000		FITTING, GREASE	1

TITLE	SPINDLE ASSEMBLY, L.H.		
PLATE NO. C01.12	**SIMON AERIALS INC.** REV. 13 OCT 1994	PART NO.	208477-2



SECTION 'A' - 'A'

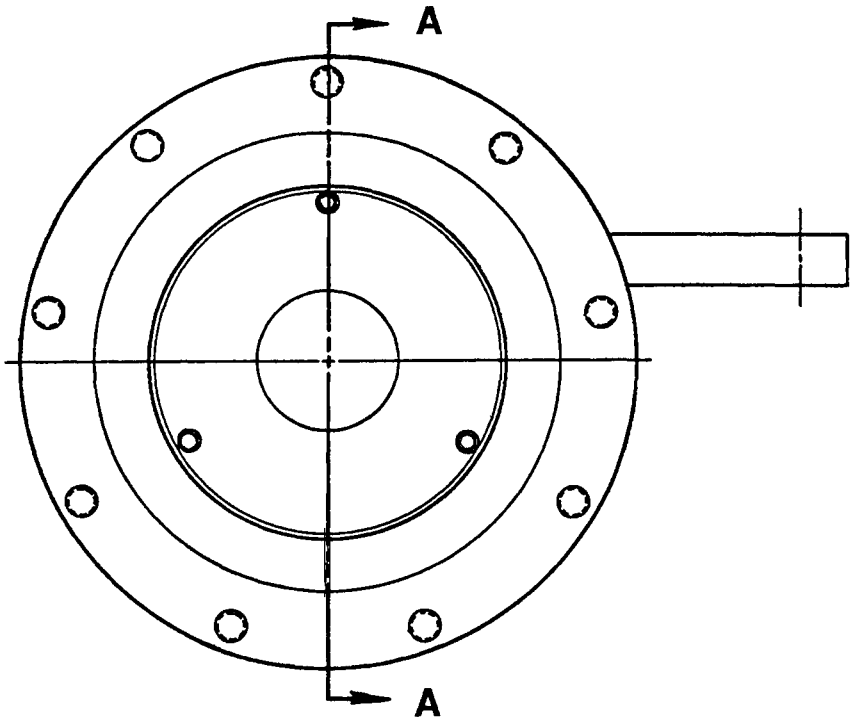
TITLE	SPINDLE ASSEMBLY, L.H.		
SIMON AERIALS INC. REV. 13 OCT 1994	PART NO. 208477-2	PLATE NO. C01.12	

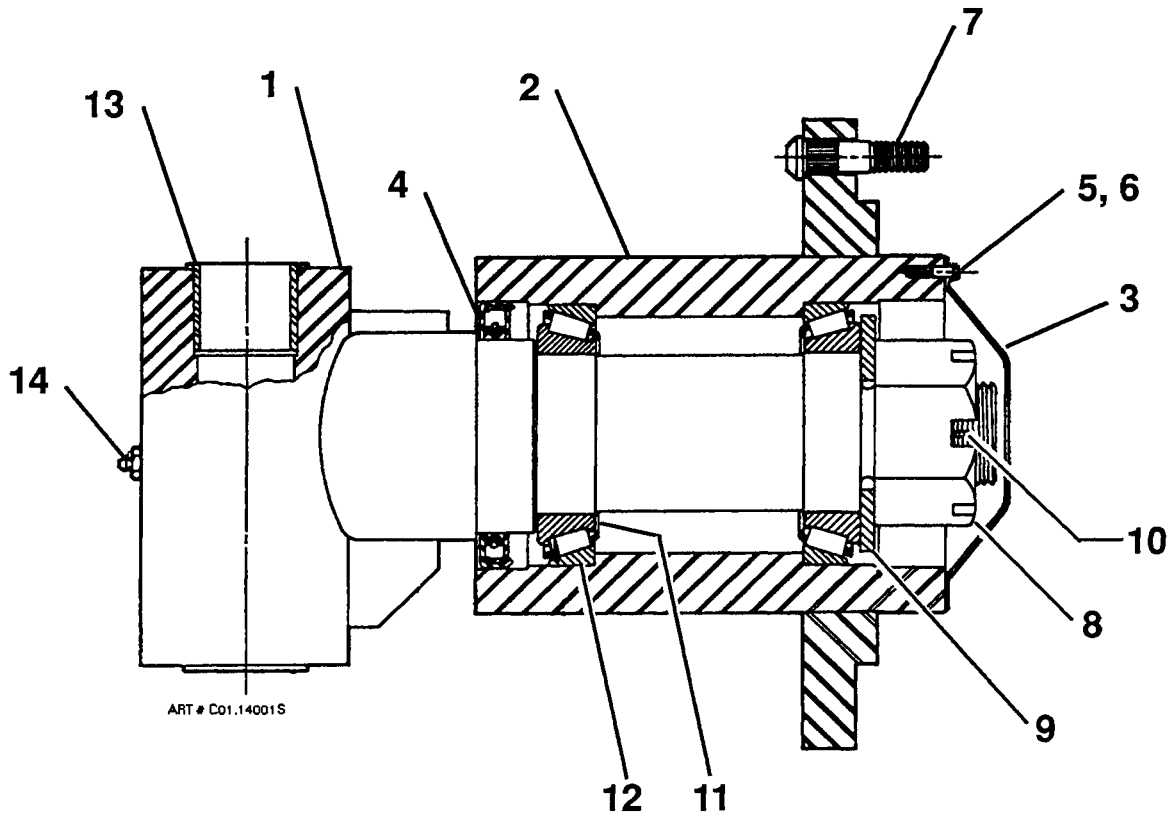
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2020702		SPINDLE (Right hand)	1
2	2022585		HUB, SPINDLE	1
3	01-030700		SEAL, SHAFT OIL (3-1/4" I.D., 4-1/2" O.D.)	1
4	2021131		PLATE, SPINDLE END COVER	1
5	07-003001		CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5)	3
6	07-065014		WASHER, HELICAL LOCK (1/4")	3
7	07-030651		STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5)	10
8	07-045227		NUT, HEX (Slotted) (1-3/4"-12, Grade 5)	1
9	07-062027		WASHER, FLAT (1-3/4")	1
10	07-070511		PIN, COTTER (1/8" x 2-1/2" long)	1
11	08-003500		CONE, ROLLER BEARING (2.750" I.D.)	2
12	08-003400		CUP, BEARING (4.437" O.D.)	2
13	08-014000		BEARING, SLEEVE (1-1/2" I.D., 1-3/4" O.D., 1-1/2" long)	2
14	08-051300		FITTING, GREASE (1/8", 90°)	1

TITLE: SPINDLE ASSEMBLY, RIGHT HAND

PLATE NO. C01.14 | **SIMON AERIALS INC.** REV. 10/01/90 | PART NO. 3502495





Section "A-A"

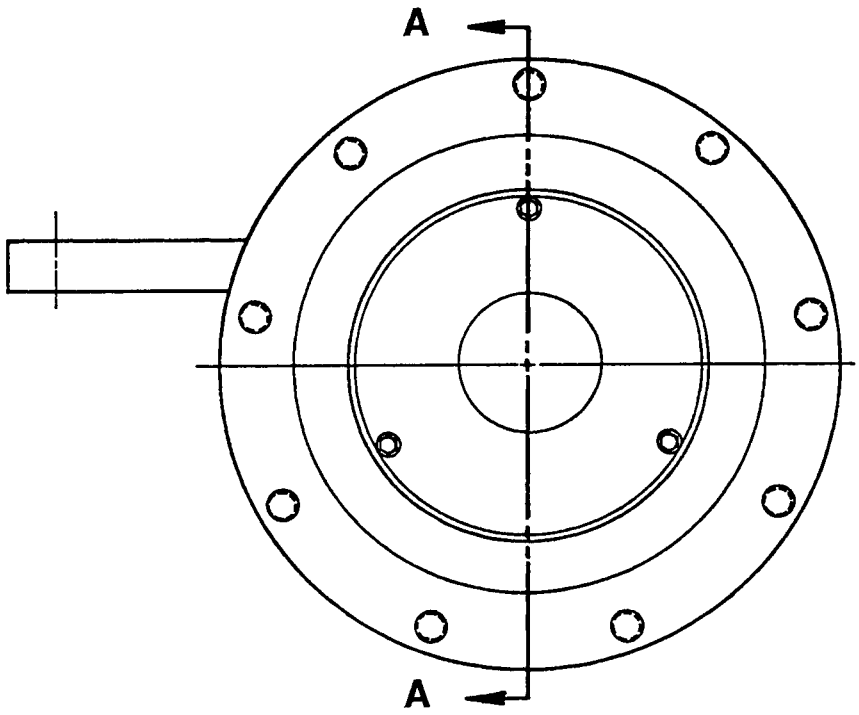
TITLE	SPINDLE ASSEMBLY, RIGHT HAND		
SIMON AERIALS INC.	REV. 10/01/90	PART NO. 3502495	PLATE NO. C01.14

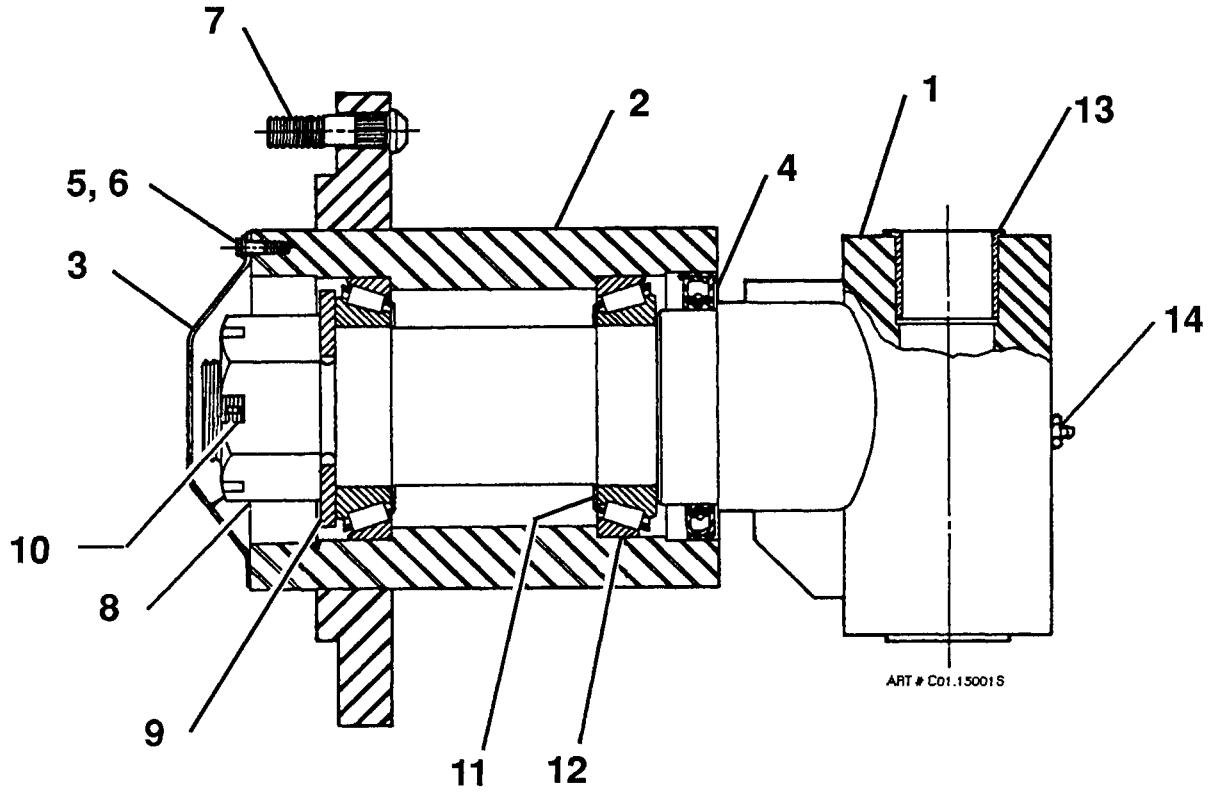
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2020711		SPINDLE (Left hand)	1
2	2022585		HUB, SPINDLE	1
3	01-030700		SEAL, SHAFT OIL (3-1/4" I.D., 4-1/2" O.D.)	1
4	2021131		PLATE, SPINDLE END COVER	1
5	07-003001		CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5)	3
6	07-065014		WASHER, HELICAL LOCK (1/4")	3
7	07-030651		STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5)	10
8	07-045227		NUT, HEX (Slotted) (1-3/4"-12, Grade 5)	1
9	07-062027		WASHER, FLAT (1-3/4")	1
10	07-070511		PIN, COTTER (1/8" x 2-1/2" long)	1
11	08-003500		CONE, ROLLER BEARING (2.750" I.D.)	2
12	08-003400		CUP, BEARING (4.437" O.D.)	2
13	08-014000		BEARING, SLEEVE (1-1/2" I.D., 1-3/4" O.D., 1-1/2" long)	2
14	08-051300		FITTING, GREASE (1/8", 90°)	1

TITLE: SPINDLE ASSEMBLY, LEFT HAND

PLATE NO. C01.15 | **SIMON AERIALS INC.** REV. 10/01/90 | PART NO. 3503089





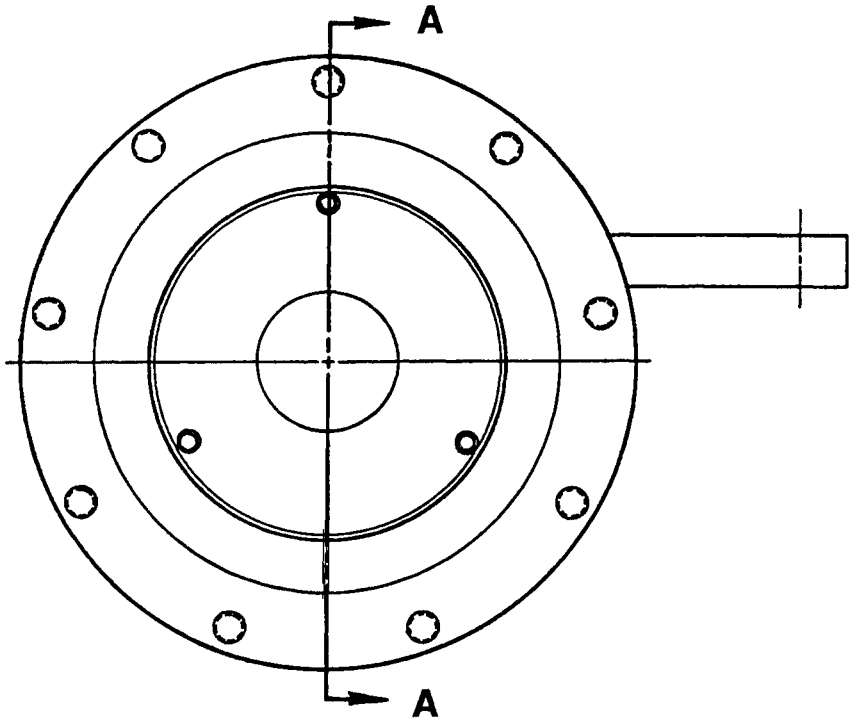
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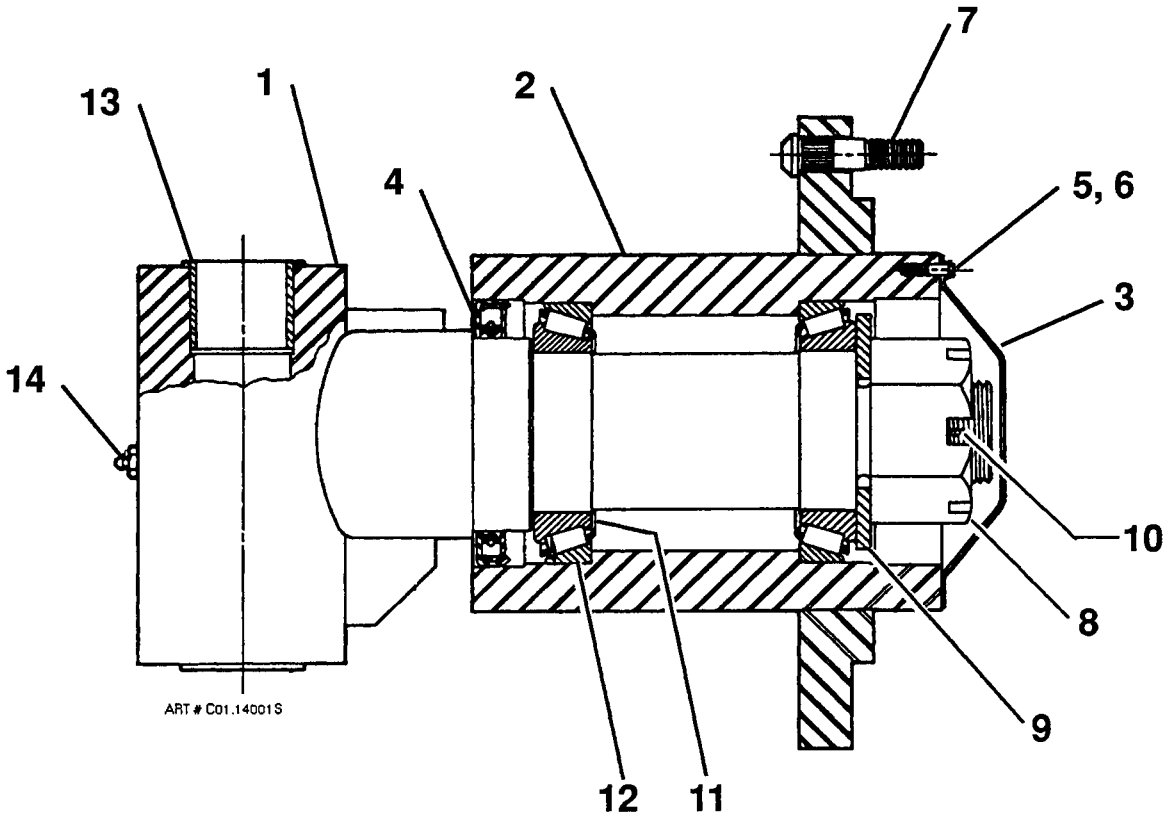
TITLE	SPINDLE ASSEMBLY, LEFT HAND		
SIMON AERIALS INC. REV. 10/01/90	PART NO. 3503089	PLATE NO. C01.15	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2027489		SPINDLE (Right hand)	1
2	D-620-205		HUB, SPINDLE	1
3	01-030700		SEAL, SHAFT OIL (3-1/4" I.D., 4-1/2" O.D.)	1
4	2021131		PLATE, SPINDLE END COVER	1
5	07-003001		CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5)	3
6	07-065014		WASHER, HELICAL LOCK (1/4")	3
7	07-030651		STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5)	10
8	07-045227		NUT, HEX (Slotted) (1-3/4"-12, Grade 5)	1
9	07-062027		WASHER, FLAT (1-3/4")	1
10	07-070511		PIN, COTTER (1/8" x 2-1/2" long)	1
11	08-003500		CONE, ROLLER BEARING (2.750" I.D.)	2
12	08-003400		CUP, BEARING (4.437" O.D.)	2
13	08-002000		BEARING, FLANGED (used prior to 09/84) (1-1/2" I.D., 1-3/4" O.D., 1-1/2" long; 2" dia. x 3/32" flange)	2
	08-014000		BEARING, SLEEVE (used beginning 09/84) (1-1/2" I.D., 1-3/4" O.D., 1-1/2" long)	2
14	08-050000		FITTING, GREASE (1/8", Straight)	1

TITLE	SPINDLE ASSEMBLY, RIGHT HAND		
PLATE NO. C01.16	**SIMON AERIALS INC.**	NEW10/01/90	PART NO.





Section "A-A"

TITLE	SPINDLE ASSEMBLY, RIGHT HAND		
SIMON AERIALS INC. NEW 10/01/90		PART NO.	PLATE NO. C01.16

PARTS LIST

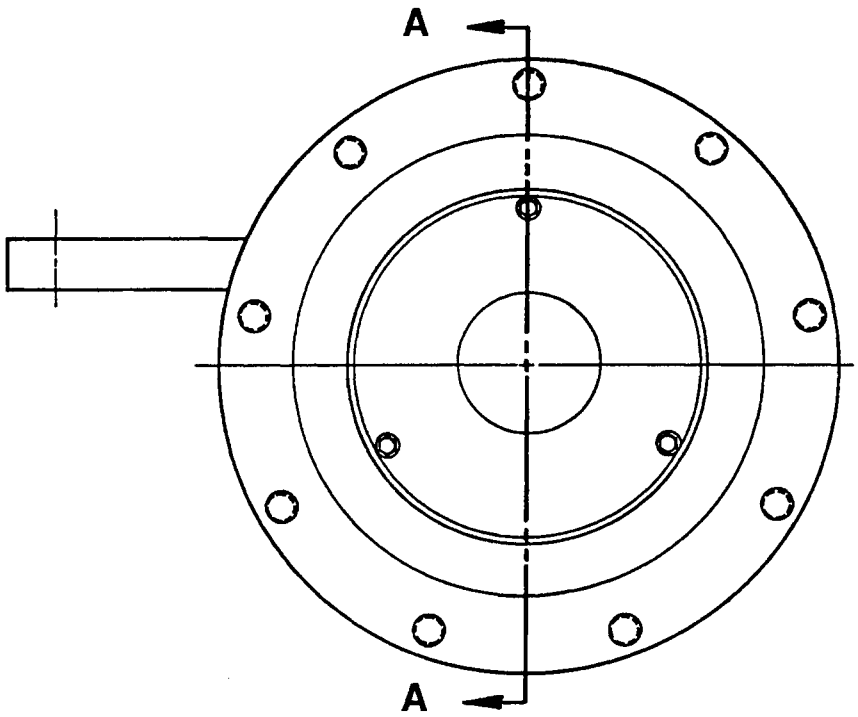
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2027474		SPINDLE (Left hand)	1
2	D-620-205		HUB, SPINDLE	1
3	01-030700		SEAL, SHAFT OIL (3-1/4" I.D., 4-1/2" O.D.)	1
4	2021131		PLATE, SPINDLE END COVER	1
5	07-003001		CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5)	3
6	07-065014		WASHER, HELICAL LOCK (1/4")	3
7	07-030651		STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5)	10
8	07-045227		NUT, HEX (Slotted) (1-3/4"-12, Grade 5)	1
9	07-062027		WASHER, FLAT (1-3/4")	1
10	07-070511		PIN, COTTER (1/8" x 2-1/2" long)	1
11	08-003500		CONE, ROLLER BEARING (2.750" I.D.)	2
12	08-003400		CUP, BEARING (4.437" O.D.)	2
13	08-002000		BEARING, FLANGED (used prior to 09/84) (1-1/2" I.D., 1-3/4" O.D., 1-1/2" long; 2" dia. x 3/32" flange)	2
	08-014000		BEARING, SLEEVE (used beginning 09/84) (1-1/2" I.D., 1-3/4" O.D., 1-1/2" long)	2
14	08-050000		FITTING, GREASE (1/8", Straight)	1

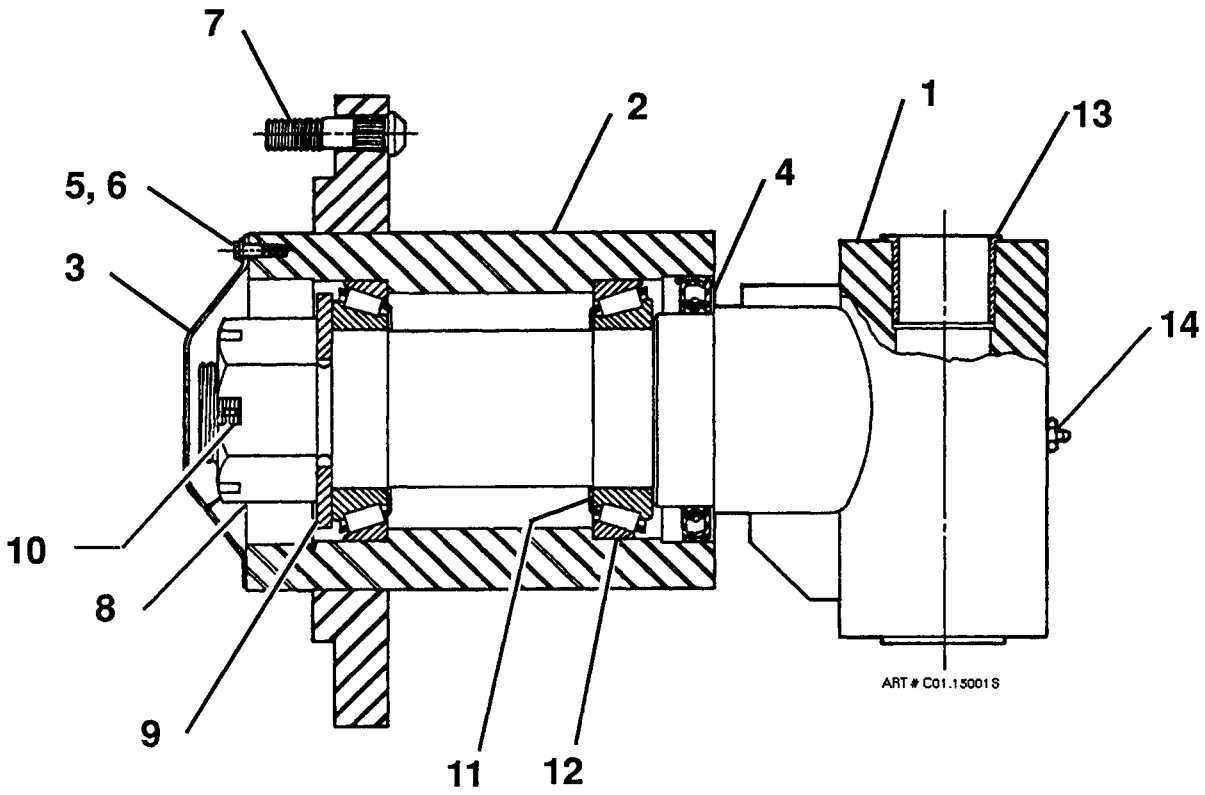
TITLE: SPINDLE ASSEMBLY, LEFT HAND

PLATE NO. C01.17

SIMON AERIALS INC. NEW 10/01/90

PART NO.





Section "A-A"

TITLE	SPINDLE ASSEMBLY, LEFT HAND		
SIMON AERIALS INC. NEW 10/01/90		PART NO.	PLATE NO. C01.17

PARTS LIST

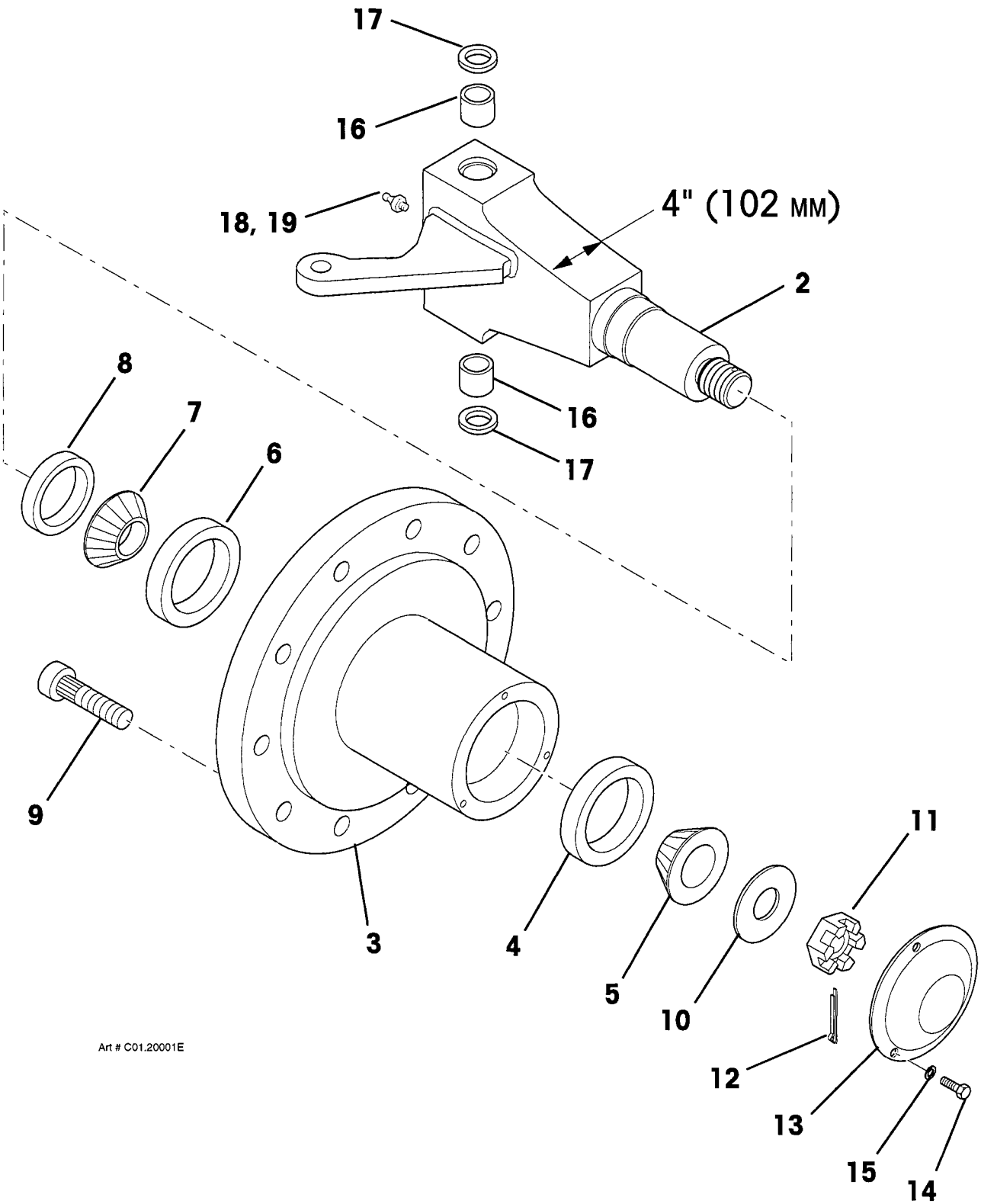
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			SPINDLE ASSEMBLY (Right)	1
	352 9910		Standard type, with **no seals** at spindle pin	
	354 4060		Optional type, **with seals** at spindle pin	
			SPINDLE ASSEMBLY (Left)	1
	352 9920		Standard type, with **no seals** at spindle pin	
	354 4070		Optional type, **with seals** at spindle pin	
			Note: this spindle is original equipment on model MP 80 with serial numbers AEA 01427 and up, and later versions of MPH 60,	
			MPN 60, MP 60Z, and MP 70. The spindle **assembly** can also be used as a replacement on earlier units; however, the **components** of the earlier spindle are different.	
			To identify this style of spindle, measure the seal (item 7), which has an outside diameter of 5" (127 mm). The distance from the	
			spindle pin centerline to the end of the threads is 14.5" (36.8 cm). The width of the spindle weldment (see illustration) is 4" (102mm). The inner bearing has a larger diameter than the outer bearing.	
			Refer to Parts Plates C01.05 and C01.06, or C01.14 and C01.15 for **components** of the earlier spindles.	
2			SPINDLE (Right)	1
	219 8570		Standard type (**no counterbore** for seals at spindle pin)	
	235 0700		Optional type (**with counterbore** for seals at spindle pin)	
			SPINDLE (Left)	1
	219 8580		Standard type (**no counterbore** for seals at spindle pin)	
	235 0690		Optional type (**with counterbore** for seals at spindle pin)	
3	219 7900		HUB, SPINDLE	1
4	08-003400		CUP, BEARING (Outer) (4.437" [113 mm] O.D.)	1
5	08-003500		CONE AND ROLLER, BEARING (Outer) (2.750" [70 mm] I.D.)	1
6	08-070500		CUP, BEARING (Inner) (5.000" [127 mm] O.D.)	1
7	08-070600		CONE AND ROLLER, BEARING (Inner) (3.000" [76 mm] I.D.)	1
8	01-217500		SEAL, SHAFT OIL (3-3/4" [95 mm] I.D., 5" [127 mm] O.D.)	1

TITLE

SPINDLE ASSEMBLY, RIGHT AND LEFT HAND

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
C01.	19	01	A	14 FEB., 1997	

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172



Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	TITLE SPINDLE ASSEMBLY, RIGHT AND LEFT HAND					
PART NO.	REV. A	DATED 14 FEB., 1997	SECTION C01.	PLATE NO. 19	PAGE 01	

PARTS LIST

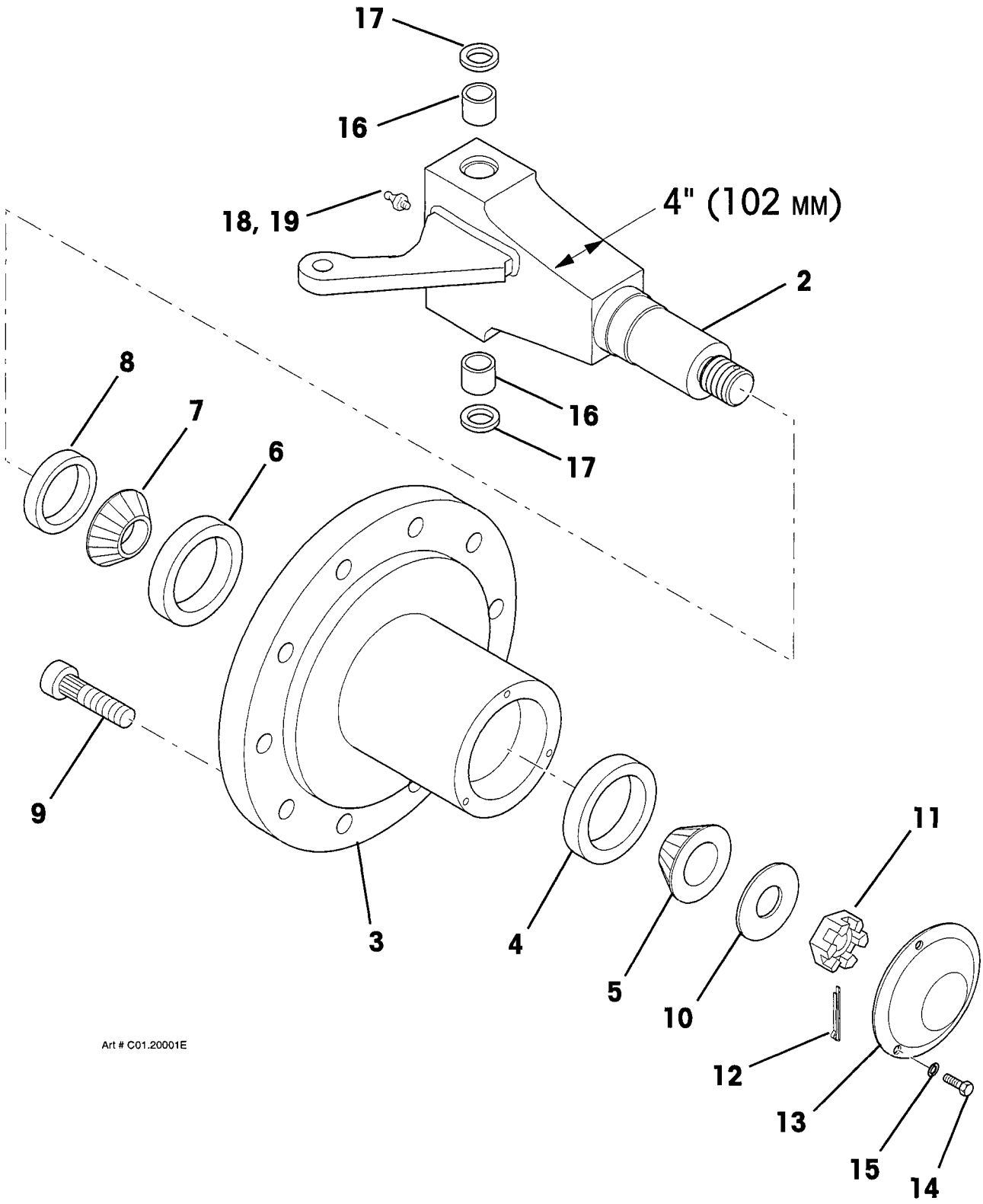
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SPINDLE ASSEMBLY (continued)	
9	07-030651		STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5)	10
10	07-062027		WASHER, FLAT (1-3/4")	1
11	07-045227		NUT, HEX (Slotted) (1-3/4"-12, Grade 5)	1
12	07-070511		PIN, COTTER (1/8" x 2-1/2" long)	1
13	202 1131		PLATE, SPINDLE END COVER	1
14	07-003001		CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5)	3
15	07-065014		WASHER, HELICAL LOCK (1/4")	3
16	08-014000		BEARING, SLEEVE (1-1/2" [38 mm] I.D., 1-3/4" [44.5 mm] O.D., 1-1/2" [38 mm] long)	2
17	10-164100		SEAL, SPINDLE PIN OIL (With option. Fits counterbored spindle, see Item 1) (1-1/2" [38 mm] I.D., 2" [51 mm] O.D.)	2
18	08-051300		FITTING, GREASE (1/8", 90°)	1
19	08-066300		CAP, GREASE FITTING (White plastic)	1

TITLE

SPINDLE ASSEMBLY, RIGHT AND LEFT HAND

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
C01.	19	02	A	14 FEB., 1997	

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172



Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172

TITLE

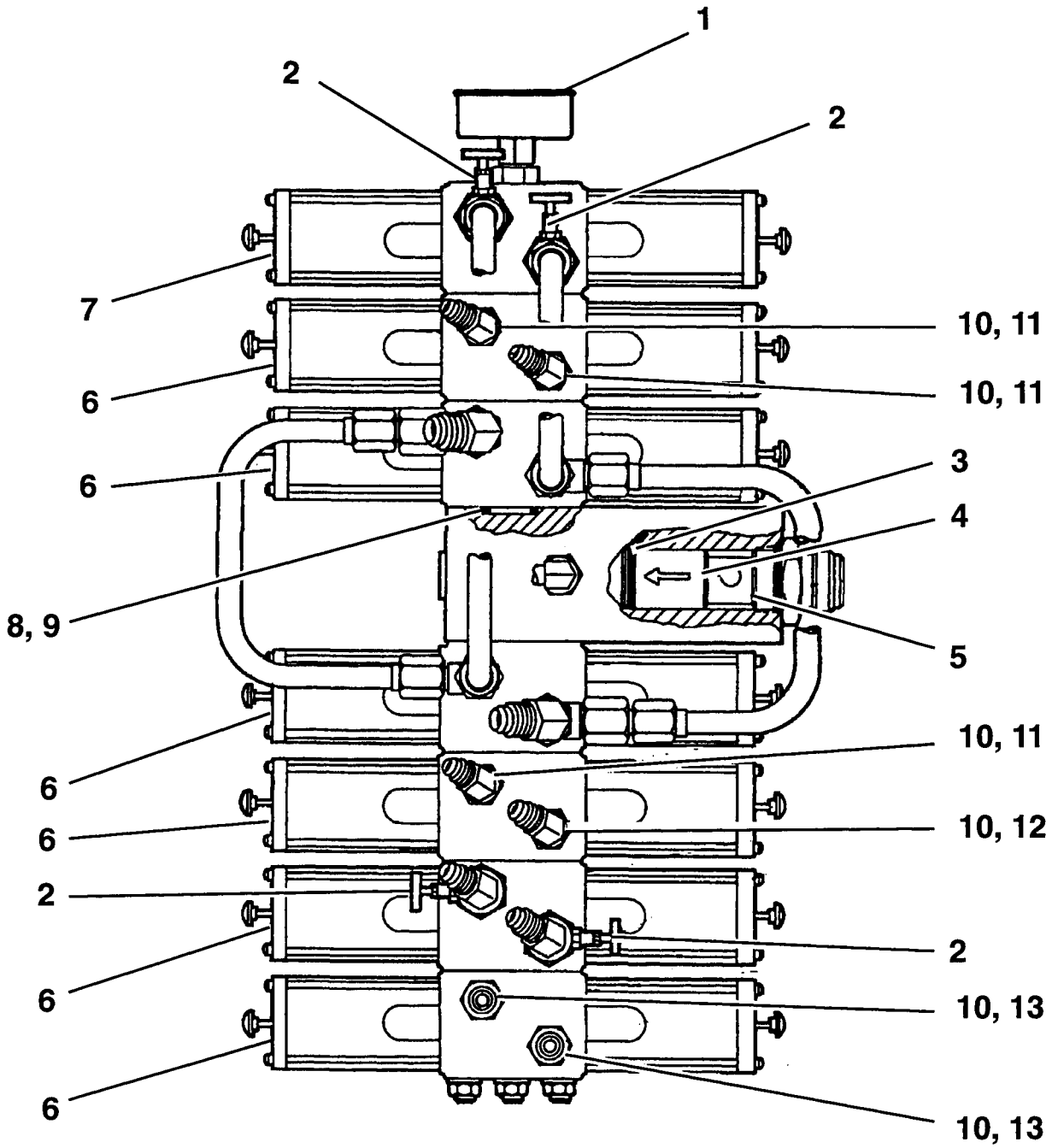
SPINDLE ASSEMBLY, RIGHT AND LEFT HAND

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
	A	14 FEB., 1997	C01.	19	02

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-021000		GAUGE, PRESSURE	1
2	01-032700		VALVE, NEEDLE	4
3	01-034200		O-RING	1
4	01-034100		VALVE, CHECK	1
5	201510-9		SPACER	1
6	01-031700	D13.01	VALVE, SOLENOID CONTROL, 4-WAY	6
7	01-031800	D13.02	VALVE, SOLENOID CONTROL, 4-WAY	1
8	01-031703		O-RING (1 1/16 O.D.)	7
9	01-031702		O-RING (3/4 O.D.)	7
10	07-060014		WASHER (1/4 LIGHT)	6
11	204409-7		FLOW DISC (0.052)	3
12	201498-6		FLOW DISC (0.070)	1
13	201754-5		FLOW DISC (0.093)	1

TITLE	VALVE BANK ASSEMBLY	
PLATE NO. C02.05	**SIMON AERIALS INC.** REV.11 OCT. 1994	PART NO. 206252-7



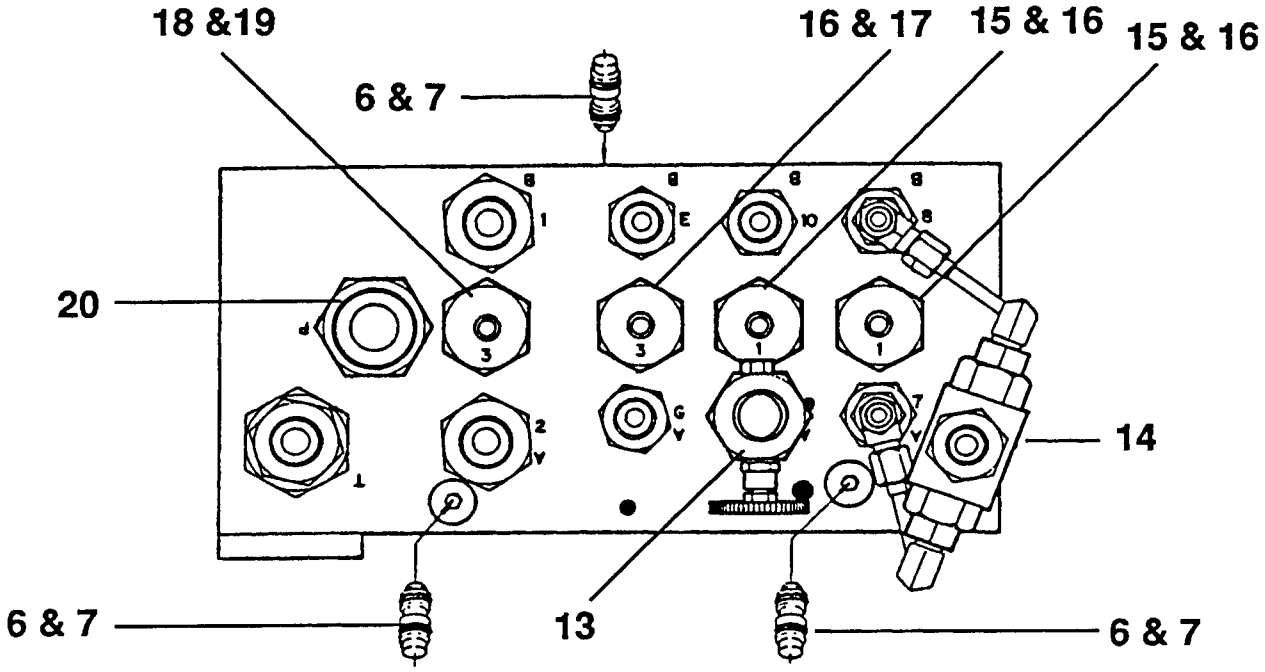
TITLE	VALVE BANK ASSEMBLY		
SIMON AERIALS INC. REV.11 OCT. 1994	PART NO. 206252-7	PLATE NO. C02.05	

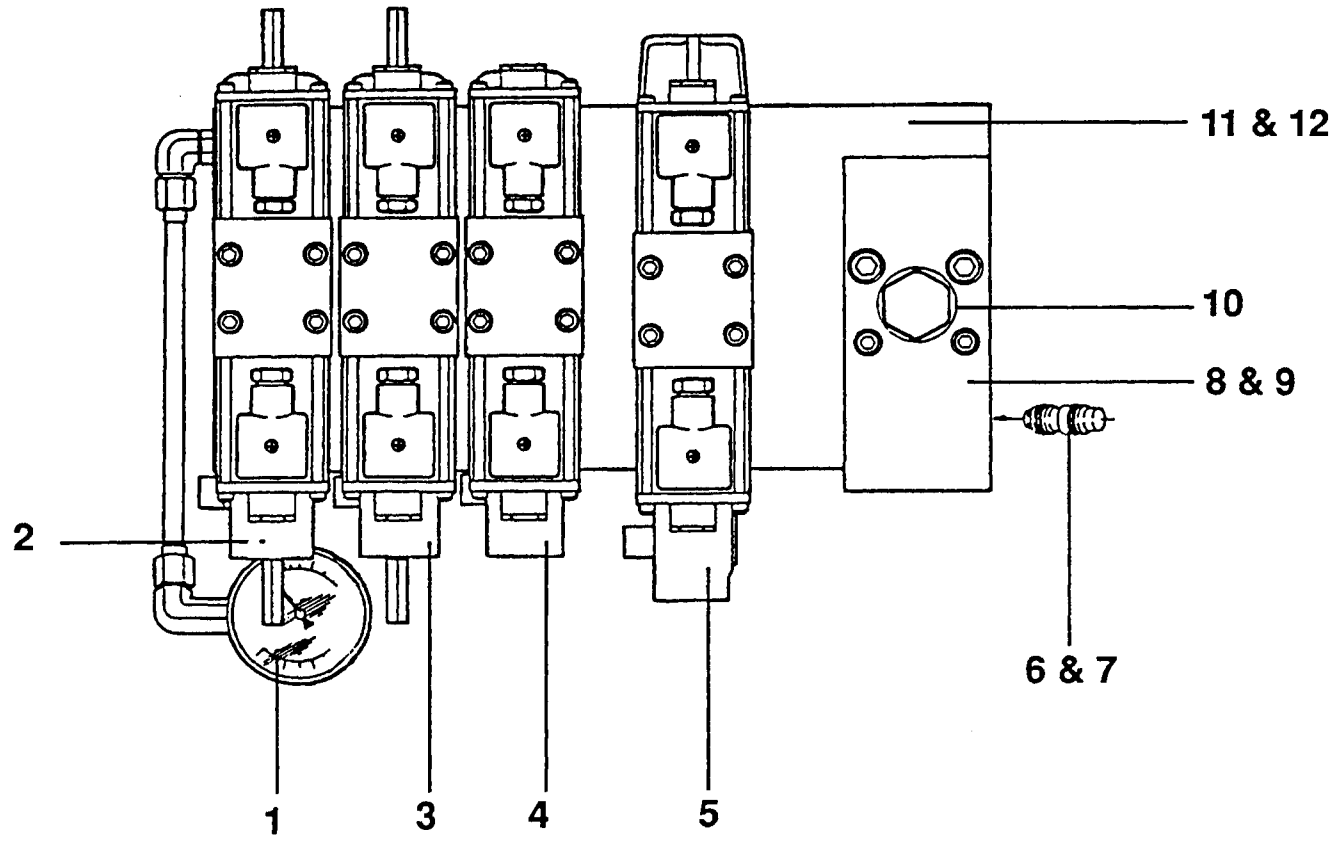
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-021000		GAUGE, PRESSURE	1
2	01-040304	D13.03	VALVE, SOLENOID CONTROL (swing)	1
3	01-040303	D13.03	VALVE, SOLENOID CONTROL (hoist)	1
4	01-040302	D13.03	VALVE, SOLENOID CONTROL (telescope)	1
5	01-040301	D13.03	VALVE, SOLENOID CONTROL (drive)	1
6			VALVE, SHUTTLE	4
7	01-040328		SEAL KIT FOR SHUTTLE VALVE	4
8			BODY, AUXILIARY MANIFOLD	1
9	01-040327		SEAL KIT (for the Auxiliary Manifold Body)	1
10	01-040309		VALVE, FLOW CONTROL (6 gpm)	1
11			BODY, MANIFOLD	1
12	01-040326		SEAL KIT (for the Manifold Body)	1
13	01-032700		VALVE, NEEDLE	1
14	01-001400		VALVE, SHUTTLE	1
15			COMPENSATOR, CARTRIDGE (Series 10)	2
16	01-040325		SEAL KIT (for the Cartridge Compensator)	2
17			COMPENSATOR, CARTRIDGE (Series 10)	1
18			COMPENSATOR, CARTRIDGE (Series 12)	1
19	01-040325		SEAL KIT (for the Cartridge Compensator)	1
20	01-015900		VALVE, CHECK	1

TITLE VALVE BANK (DRIVE, TELESCOPE, HOIST AND SWING)

PLATE NO. C02.10 | **SIMON AERIALS INC.** REV. 09/07/90 | PART NO. 01-040300



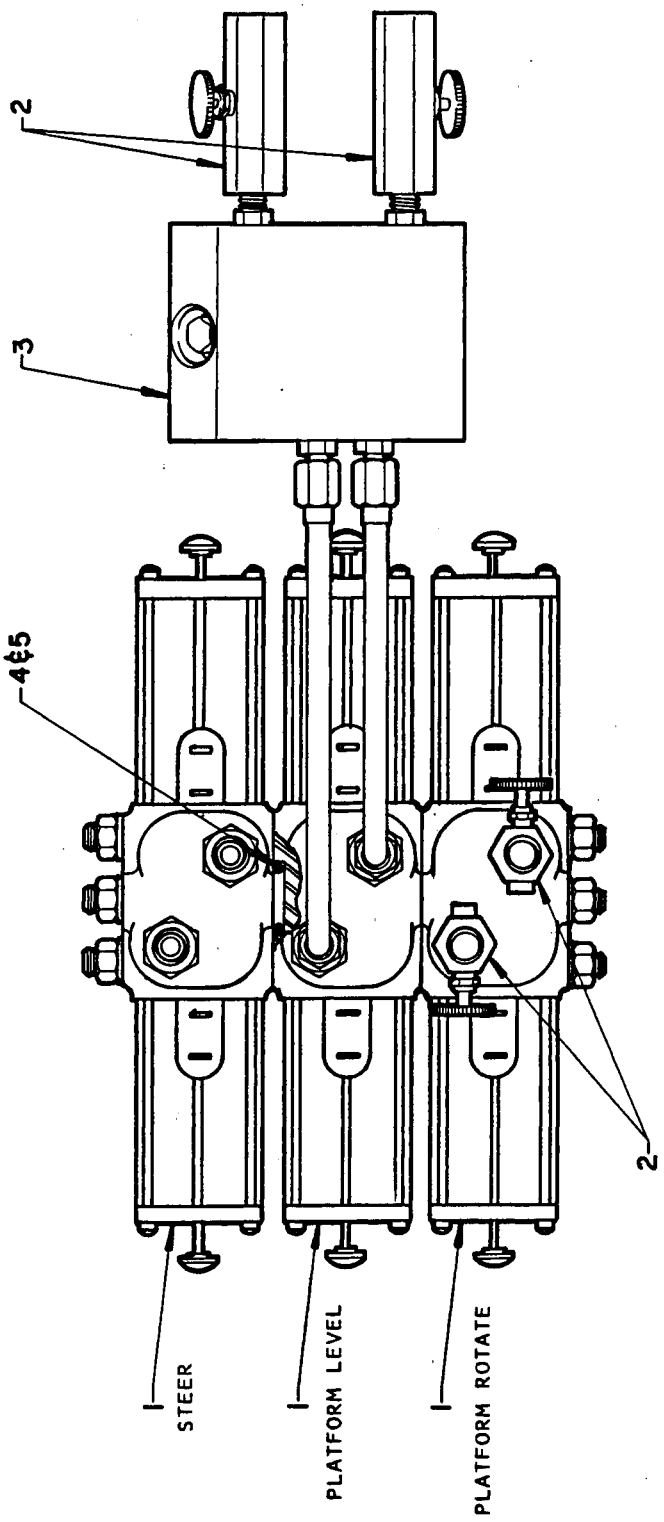


TITLE	VALVE BANK (DRIVE, TELESCOPE, HOIST AND SWING)		
SIMON AERIALS INC.	REV. 09/07/90	PART NO. 01-040300	PLATE NO. C02.10

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-031700	D13.1	SOLENOID CONTROL VALVE, 4-WAY	3
2	01-000500		NEEDLE VALVE	4
3	01-001900		DOUBLE LOCK VALVE	1
4	01-031703		SEAL 1-1/16 O.D.	2
5	01-031702		SEAL 3/4 O.D.	2

DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY (CAB LEVEL & ROTATE, STEER)	CAA-208469-7



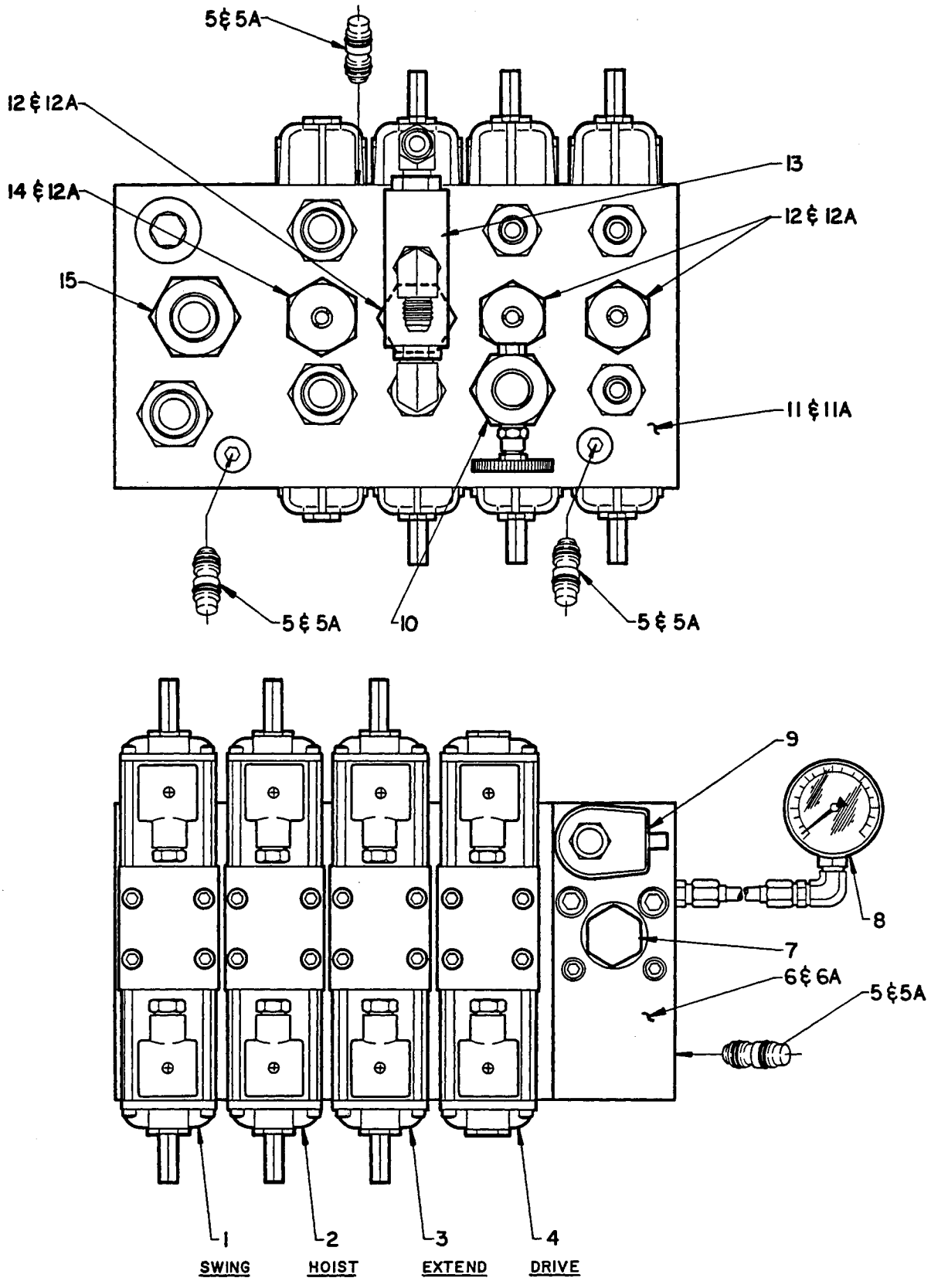
0385/0385

DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY (CAB LEVEL & ROTATE, STEER)	CAA-208469-7

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-017501	D13.4	SOLENOID CONTROL VALVE, SWING	1
2	01-017502	D13.4	SOLENOID CONTROL VALVE, HOIST	1
3	01-017503	D13.4	DOLENOID CONTROL VALVE, EXTEND	1
4	01-017504	D13.4	SOLENOID CONTROL VALVE, DRIVE	1
5			SHUTTLE VALVE	4
5A			SEAL KIT, SHUTTLE VALVE	4
6			AUXILIARY MANIFOLD BODY	1
6A			SEAL KIT, AUXILIARY MANIFOLD	1
7			FLOW CONTROL VALVE, 4 GPM	1
8	01-021000		PRESSURE GAUGE	1
9	01-040309		SOLENOID CONTROL VALVE, 3-WAY	1
10	01-032700		NEEDLE VALVE	1
11			MANIFOLD BODY	1
11A			SEAL KIT, MANIFOLD	1
12			CARTRIDGE COMPESATOR, SERIES 10	3
12A			SEAL KIT, CARTRIDGE COMPENSATOR	4
13	01-012800		PRESSURE REDUCING VALVE	1
14			CARTRIDGE COMPENSATOR, SERIES 10	1
15	01-018200		CHECK VALVE	1

DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY (DRIVE, EXTEND, HOIST, SWING)	CAA-208488-2



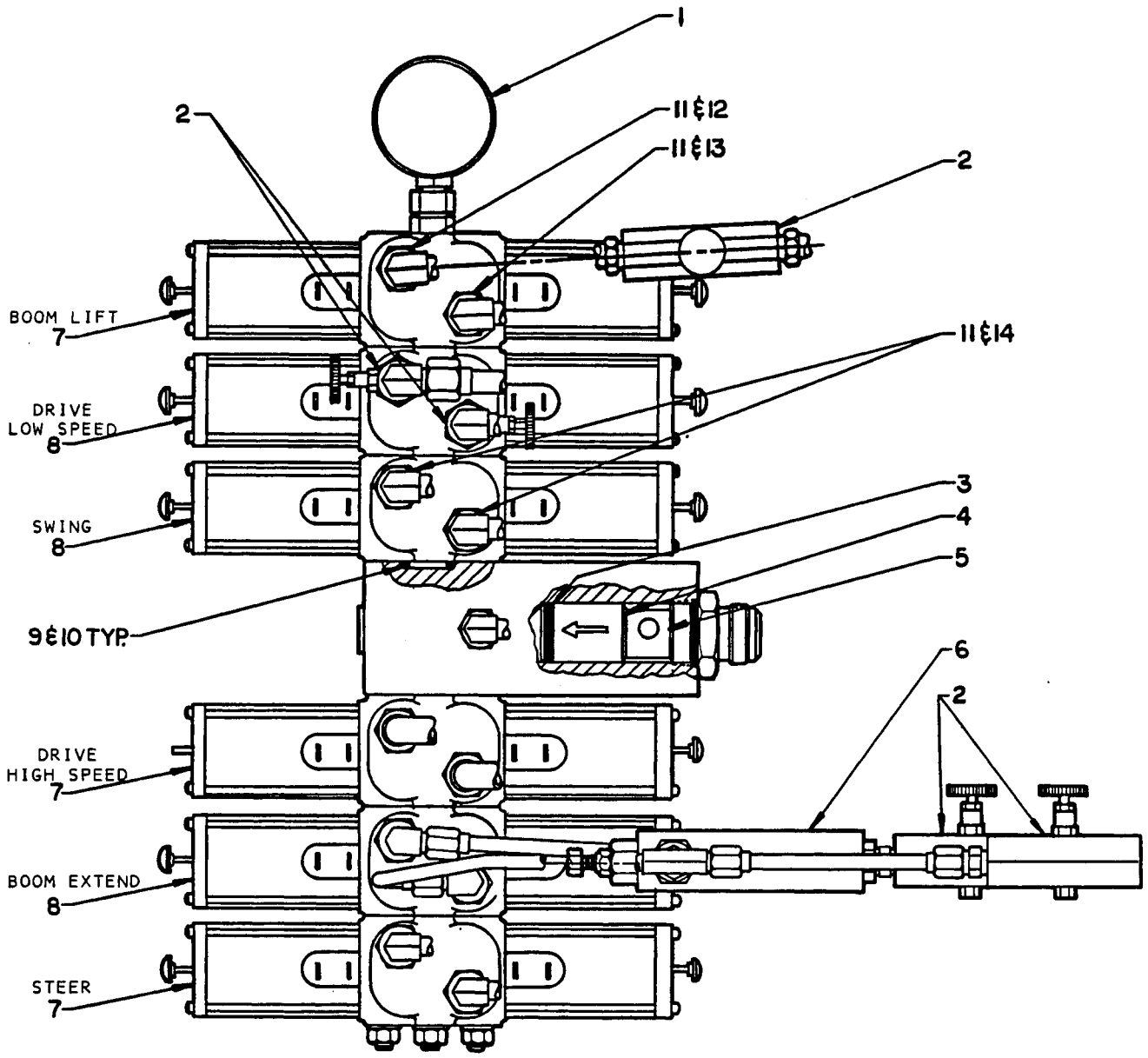
0785/0785

DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY (DRIVE, EXTEND, HOIST, SWING)	CAA-208488-2

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-021000		PRESSURE GAUGE	1
2	01-032700		NEEDLE VALVE	5
3	01-034200		'O' RING	1
4	01-034100		CHECK VALVE	1
5	SBD-201510-9		SPACER	1
6	01-012800		PRESSURE REDUCING VALVE	1
7	01-031700	D13.1	SOLENOID CONTROL VALVE, 4-WAY	3
8	01-031800	D13.2	SOLENOID CONTROL VALVE, 4-WAY	3
9	01-031703		'O' RING 1-1/16" O.D.	6
10	01-031702		'O' RING 3/4" O.D.	6
11	04-060014		WASHER, 1/4 LIGHT	4
12	SBD-201507-9		FLOW DISC .078	1
13	SBD-203410-2		FLOW DISC .052	1
14	SBD-201508-4		FLOW DISC .047	2

DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY	CAA-209806-5



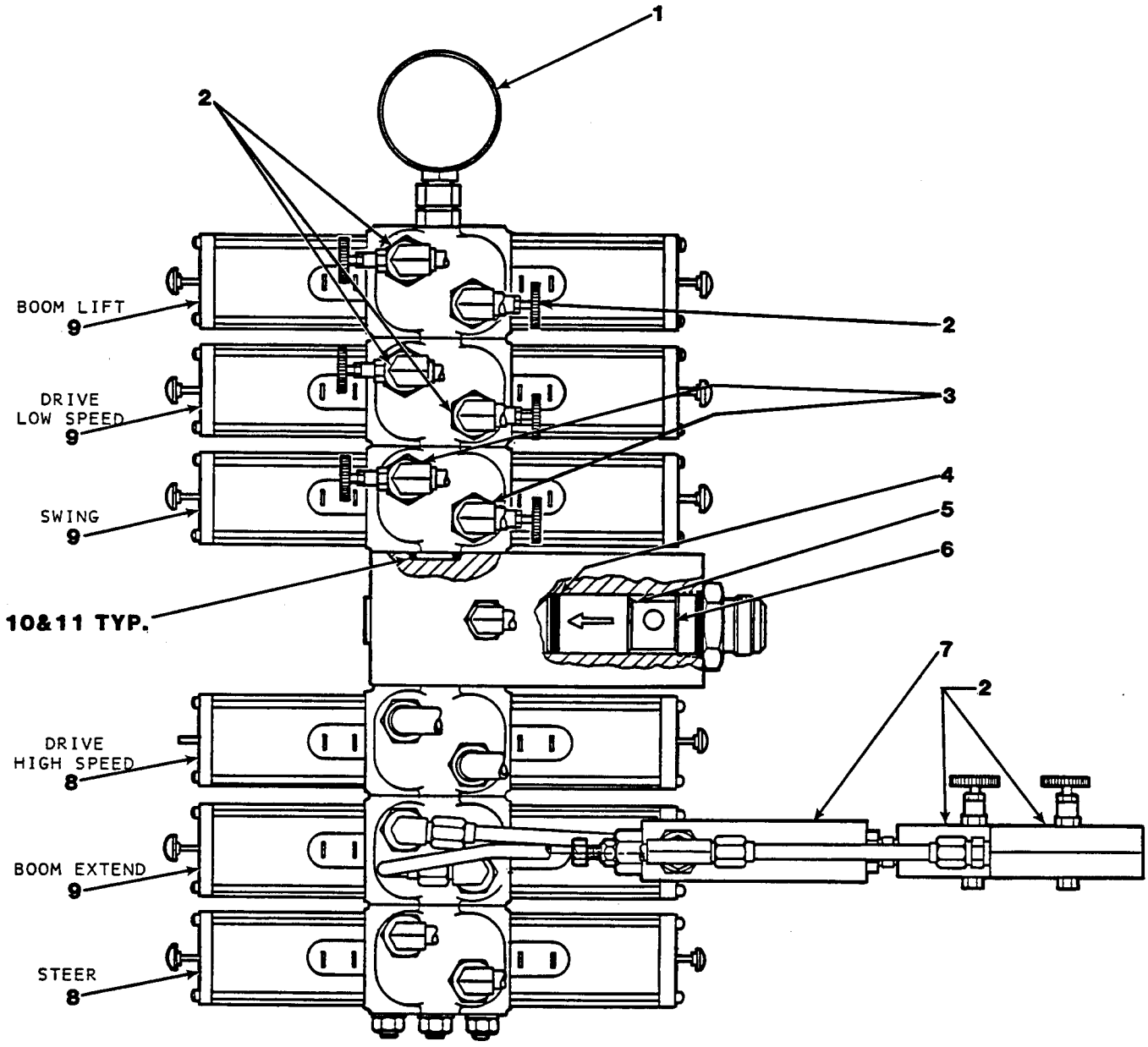
1185/0685

DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY	CAA-209806-5

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-021000		PRESSURE GAUGE	1
2	01-019000		NEEDLE VALVE, #8 SAE PORTS	6
3	01-018900		NEEDLE VALVE, #6 SAE PORTS	2
4	01-034200		'O' RING	1
5	01-034200		CHECK VALVE	1
6	SBD-201510-9		SPACER	1
7	01-012800		PRESSURE REDUCING VALVE	1
8	01-031700	D13.1	SOLENOID CONTROL VALVE, 4-WAY	2
9	01-031800	D13.2	SOLENOID CONTROL VALVE, 4-WAY	4
10	01-031703		'O' RING, 1-1/16 O.D.	6
11	01-031702		'O' RING, 3/4 O.D.	6

DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY	



0786/0486

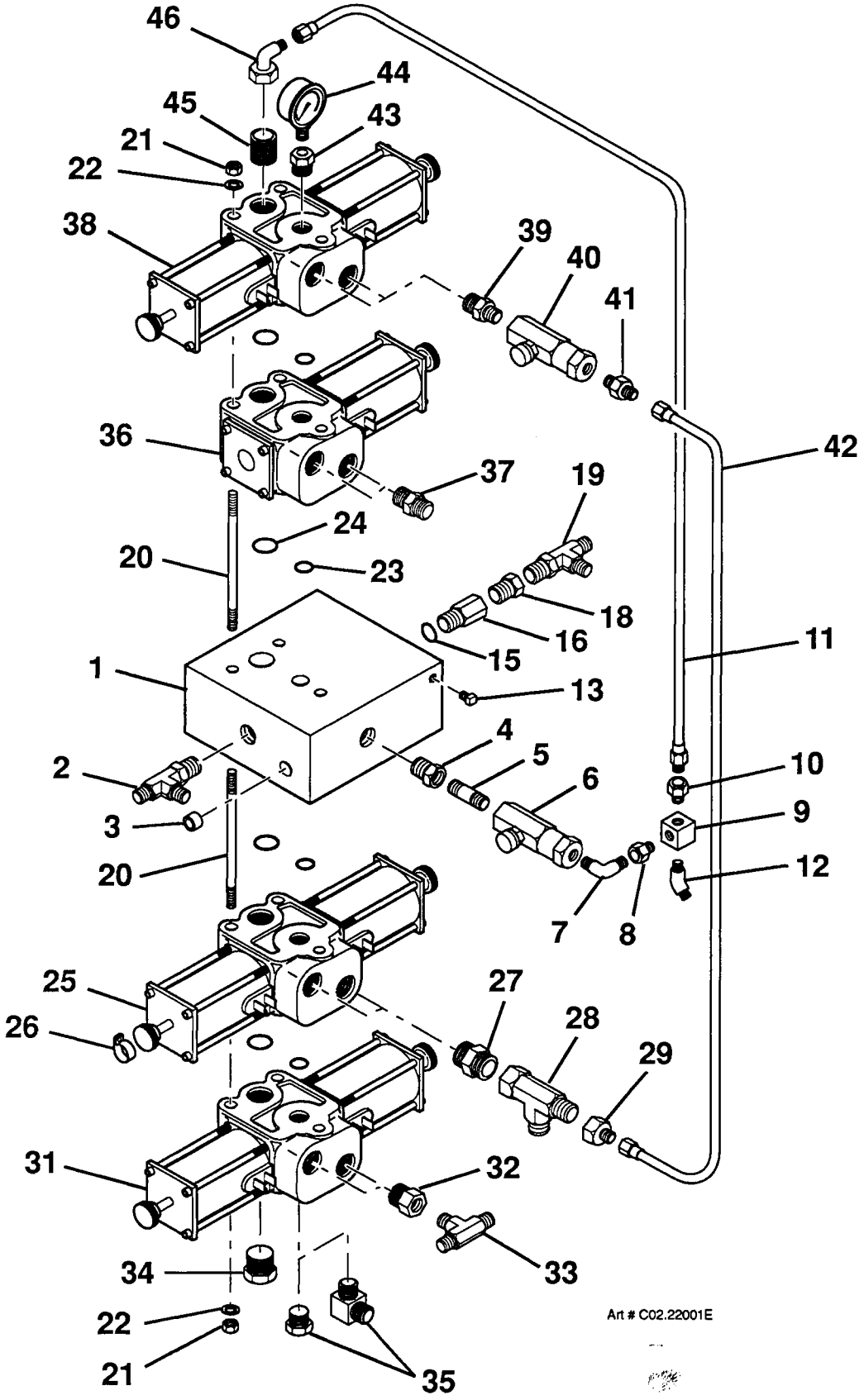
DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2025214		MANIFOLD, CONTROL VALVE	1
2	06-044800		ELBOW, STRAIGHT THREAD (8 C50X) (used on models **without** steering relief valves)	1
			TEE, STRAIGHT THREAD (used on models **with** steering relief valves)	1
3	06-095100		PLUG, HOLLOW HEX (8 HP50N)	1
4	06-086800		ADAPTER, FEMALE PIPE (8-1/4 F50G)	1
5	06-076900		NIPPLE, PIPE THREAD ADAPTER (PH 1/4 FF)	1
6	01-012300		VALVE, FLOW CONTROL	1
7	06-082500		ELBOW, PIPE THREAD (1/4 CR)	1
8	06-086600		ADAPTER, FEMALE PIPE (6-1/4 F50G)	1
9	01-013800		VALVE, SHUTTLE	1
10			FITTING (6 F50X)	1
11	3516800		TUBE ASSEMBLY (Shuttle valve return line)	1
12	06-047000		ELBOW, 45° STRAIGHT THREAD (6 V50X)	1
13	06-000003		PLUG, HEX HEAD (1/4 HP)	1
14	06-041100		CONNECTOR, STRAIGHT THREAD (12-16 F50X) (not shown)	1
15	01-034200		"O"-RING (1.051" I.D.)	1
16	01-034100		VALVE, CARTRIDGE CHECK (3,000 PSI)	1
17	2015109		SPACER, CHECK VALVE (not shown)	1
18	06-040800		CONNECTOR, STRAIGHT THREAD (12 F50X)	1
19			TEE	1
20	2096568		ROD, THREADED (3/8"-16 x 6-1/4")	6
21	07-040016		NUT, HEX (3/8"-16, Grade 5)	6
22	07-065016		WASHER, HELICAL LOCK (3/8")	6
23	01-031702		"O"-RING (3/4" O.D.)	4
24	01-031703		"O"-RING (1-1/16" O.D.)	4
25	01-031700	D13.01	VALVE, DIRECTIONAL (High speed valve) (Solenoid operated, 4 way, 3 position, closed center)	1
26			BAND (to prevent manual operation of high speed valve)	2
27	06-040900		CONNECTOR, STRAIGHT THREAD (12-8 F50X)	2
28	06-054800		RUN TEE, SWIVEL NUT (12 R6X)	2
29	06-057800		NUT, TUBE (12 BTX)	2
30	06-060900		REDUCER, TUBE END (12-8 TRTX) (not shown)	2
31	01-031700	D13.01	VALVE, DIRECTIONAL (Steer valve) (Solenoid operated, 4 way, 3 position, closed center)	1
32			REDUCER	2
33	06-044700		ELBOW, STRAIGHT THREAD (6-8 C50X) (used on models **without** steering relief valves)	2
			TEE, STRAIGHT THREAD (used on models **with** steering relief valves)	2

TITLE MANIFOLD ASSEMBLY, DRIVE/ STEER (FULL HYDRAULIC) (PLATE 1 OF 2)

PLATE NO. C02.22 | **SIMON AERIALS INC.** REV. 06/26/91 | PART NO. 3511020



TITLE MANIFOLD ASSEMBLY, DRIVE/ STEER (FULL HYDRAULIC) (PLATE 1 OF 2)

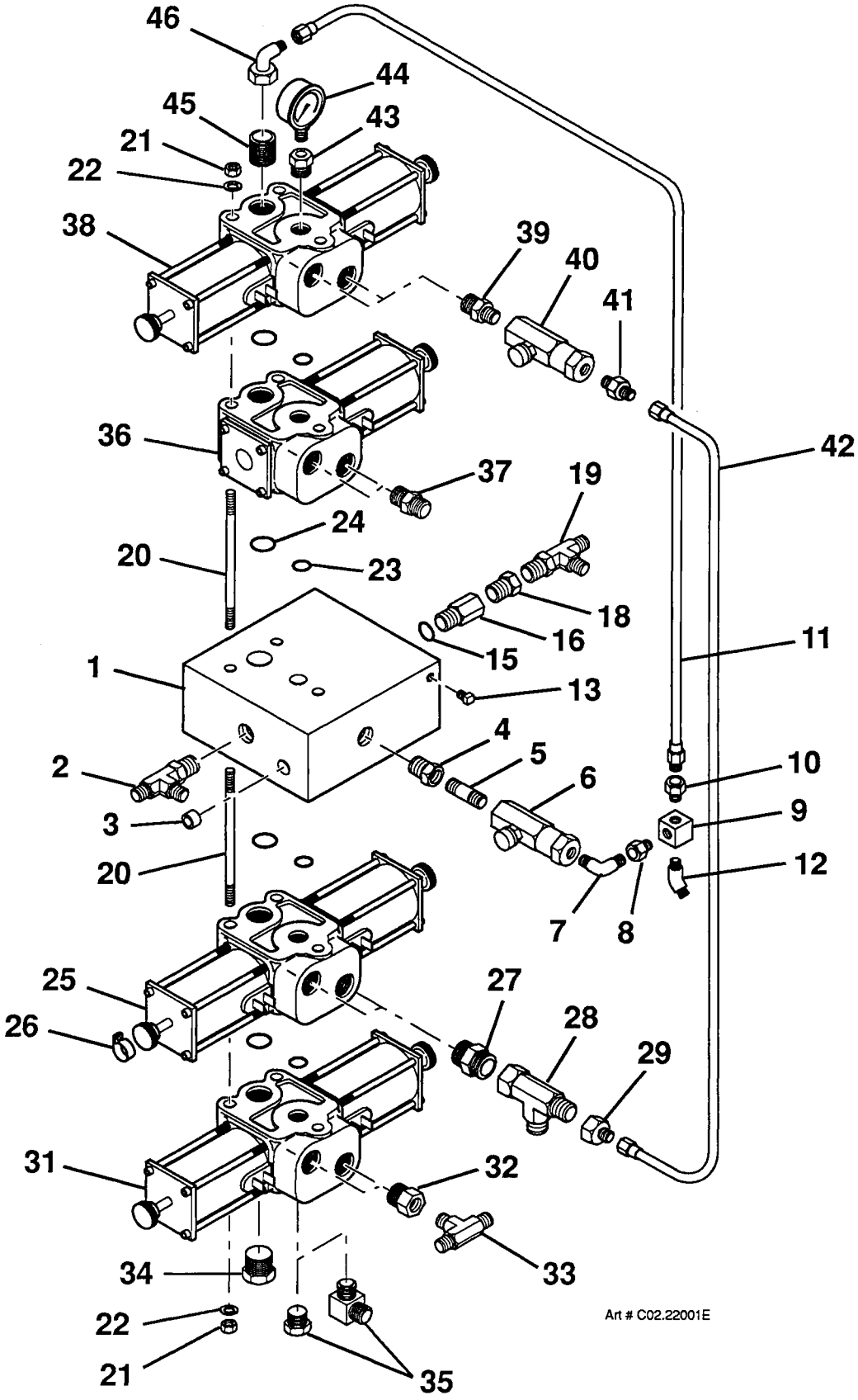
SIMON AERIALS INC.	REV. 06/26/91	PART NO. 3511020	PLATE NO. C02.22

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
34	06-040500		CONNECTOR, STRAIGHT THREAD (10-8 F50X)	1
35	06-095000		PLUG, HOLLOW HEX (6 HP50N)	
			(used on models **without** 2 speed drive or 4WD)	1
	06-044600		ELBOW, STRAIGHT THREAD (6 C50X)	
			(used on models **with** 2 speed drive or 4WD)	1
36	01-061900		VALVE, DIRECTIONAL (Diverter valve)	
			(Solenoid operated, 4 way, 2 position)	1
37	06-040100		CONNECTOR, STRAIGHT THREAD (8 F50X)	2
38	01-031800	D13.02	VALVE, DIRECTIONAL (Low speed valve)	
			(Solenoid operated, 4 way, 3 position, open center)	1
39	06-096200		UNION (8 F50 F50)	2
40	01-019000		VALVE, FLOW CONTROL	2
41	06-040100		CONNECTOR, STRAIGHT THREAD (8 F50X)	1
42	3511050		TUBE ASSEMBLY (Low speed valve to high speed valve)	2
43	06-086600		ADAPTER, FEMALE PIPE (6-4 F50)	1
44	01-021000		GAUGE, HYDRAULIC PRESSURE (0-4000 PSI)	1
45	06-039900		CONNECTOR, STRAIGHT THREAD (6-8 F50X)	1
46	06-051500		CONNECTOR (6 C6X)	1
47	03-426000		HARNESS, WIRE (not shown)	1

TITLE MANIFOLD ASSEMBLY, DRIVE/ STEER (FULL HYDRAULIC) (PLATE 2 OF 2)

PLATE NO.	SIMON AERIALS INC.	REV. 06/26/91	PART NO.
C02.22			3511020



TITLE MANIFOLD ASSEMBLY, DRIVE/ STEER (FULL HYDRAULIC) (PLATE 2 OF 2)

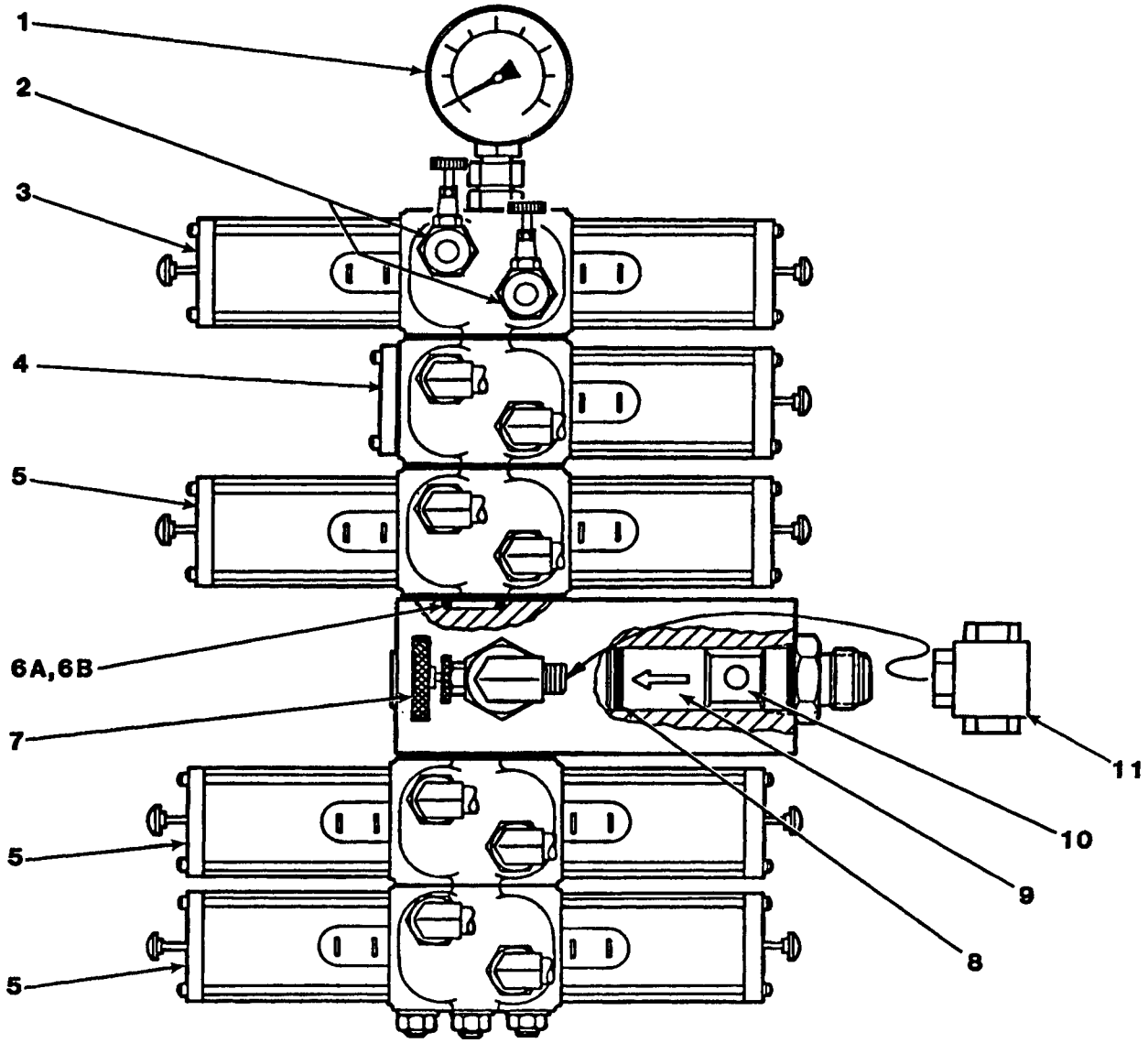
SIMON AERIALS INC.	REV. 06/26/91	PART NO. 3511020	PLATE NO. C02.22

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-021000		GAUGE, PRESSURE (0-4000 lb/in^2, 1/4" NPT)	1
2	01-019000		VALVE, NEEDLE FLOW CONTROL (#8 SAE ports)	2
3	01-031800	D13.02	VALVE, SOL. CONT., 4-WAY (low speed drive)	1
4	01-061900		VALVE, SOL. CONT., 4-WAY (diverter)	1
5	01-031700	D13.01	VALVE, SOL. CONT., 4-WAY (high speed drive, steer)	3
5A	01-031701		COIL, SOLENOID VALVE	3
5B	01-031712		SEAL KIT (for solenoid valve)	1
6A	01-031703		O-RING, 1-1/16" O.D.	10
6B	01-031702		O-RING, 3/4" O.D.	10
7	01-012300		VALVE, PRESSURE COMPENSATED NEEDLE	1
8	01-034200		O-RING	1
9	01-034100		VALVE, CHECK	1
10	20151090		SPACER	1
11	01-013800		VALVE, SHUTTLE	1
12	01-071200		SEAL KIT (for shuttle valve)	1

TITLE: VALVE BANK ASSEMBLY (DRIVE AND STEER)

PLATE NO. C02.23 | **SIMON AERIALS INC.** REV. 11/30/90 | PART NO. 3511020

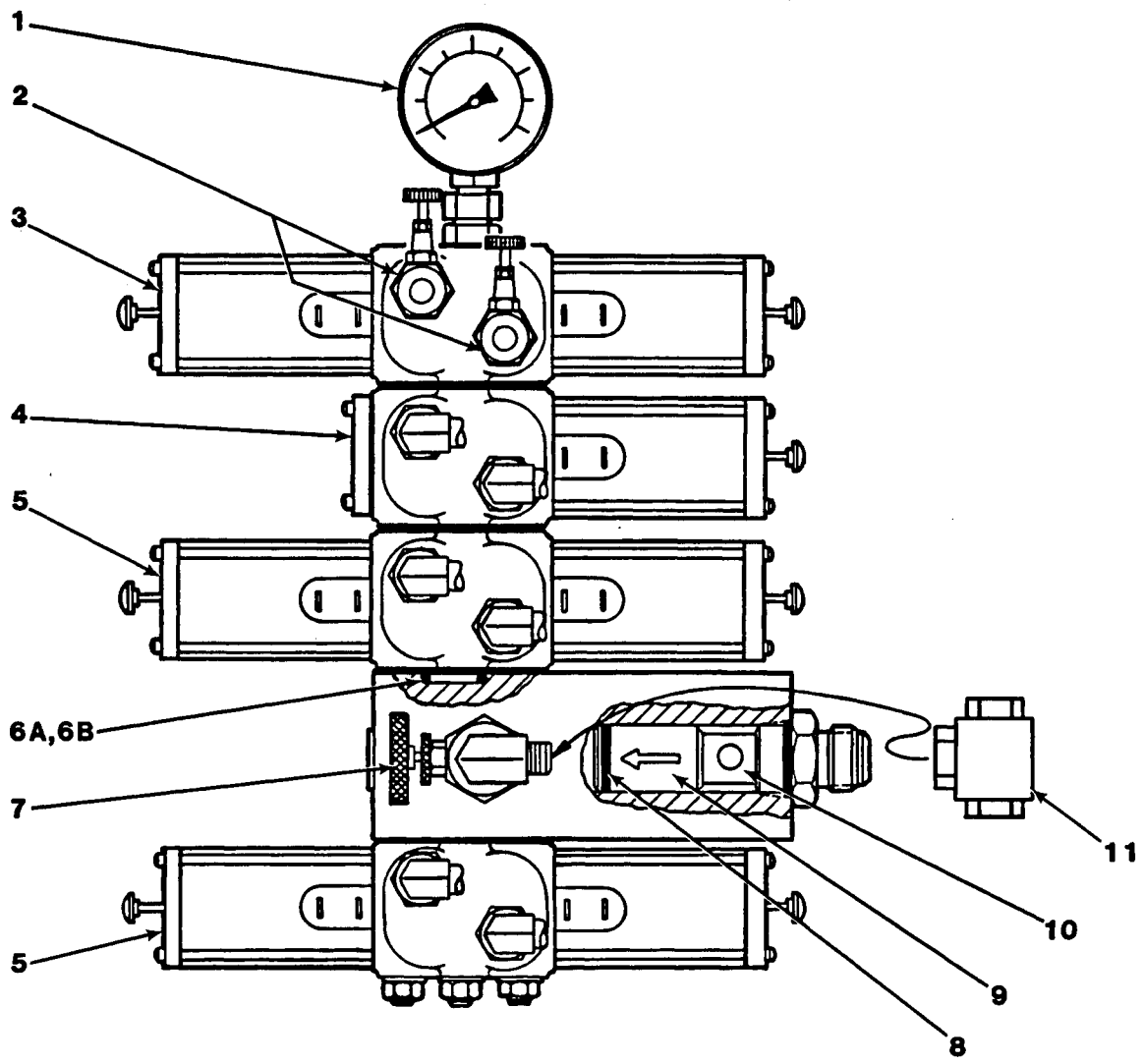


TITLE	VALVE BANK ASSEMBLY (DRIVE AND STEER)				
SIMON AERIALS INC.	REV. 11/30/90	PART NO.	3511020	PLATE NO.	C02.23

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-021000		PRESSURE GAUGE	1
2	01-019000		NEEDLE VALVE, #8 SAE PORTS	1
3	01-031800	D13.2	SOL. CONT. VALVE, 4-WAY (LOW SPEED DRIVE)	1
4	01-061900		SOL. CONT. VALVE, 4-WAY (DIVERTER)	1
5	01-031700	D13.1	SOL. CONT. VALVE, 4-WAY (HI SPEED DRIVE)	2
6A	01-031703		'O' RING, 1-1/16 O.D.	8
6B	01-031702		'O' RING, 3/4 O.D.	8
7	01-012300		NEEDLE VALVE, PRESSURE COMPENSATED	1
8	01-034200		'O' RING	1
9	01-034100		CHECK VALVE	1
10	SBD-201510-9		SPACER	1
11	01-013800		SHUTTLE VALVE,	1

DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY - (DRIVE)	



0286/1086

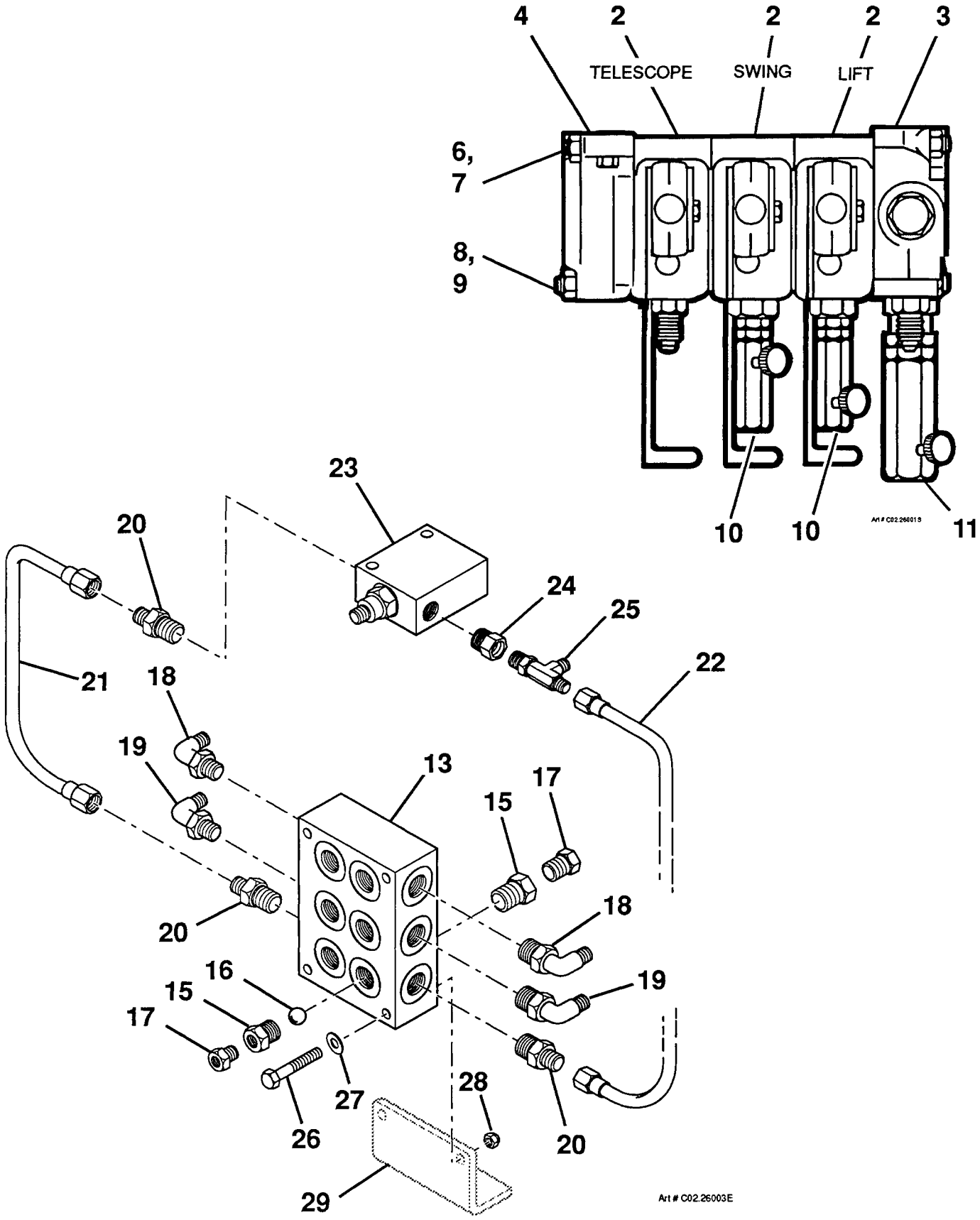
DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY – (DRIVE)	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			VALVE BANK ASSEMBLY, GROUND (Lift, swing, telescope)	1
2	01-067701	D14.02	VALVE SECTION, 4-WAY MANUAL	3
3	01-067704		VALVE SECTION, INLET	1
4	01-067705		END SECTION, VALVE	1
5			TIE ROD KIT	1
6			TIE ROD (5/16"-11 X 6-3/4" long)	2
7			NUT, HEX (5/16"-11)	4
8			TIE ROD (3/8"-24 X 6-3/4" long)	1
9			NUT, HEX (3/8"-24)	2
10	01-018900		VALVE, NEEDLE (#6 SAE ports)	3
11	01-019000		VALVE, NEEDLE (#8 SAE ports)	1
12	3511030		SHUTTLE VALVE ASSEMBLY (for MP 70 and smaller)	1
	3517640		SHUTTLE VALVE ASSEMBLY (for MP 80 and larger)	1
13	01-071300		BLOCK, SHUTTLE VALVE	1
14	01-071200		VALVE KIT, SHUTTLE	6
15			SEAT (with "O"-Ring)	2
16			BALL	1
17	06-039900		CONNECTOR, STRAIGHT THREAD (6-8 F50X)	12
18	06-044800		ELBOW, STRAIGHT THREAD (8 C50X)	2
19	06-044700		ELBOW, STRAIGHT THREAD (6-8 C50X)	2
20	06-040100		CONNECTOR, STRAIGHT THREAD (8 F50X)	3
21	3515610		TUBE ASSEMBLY (left hand)	1
22	3515600		TUBE ASSEMBLY (right hand)	1
23			VALVE, PRESSURE REDUCING	
	01-012800		(100 to 3,000 PSI, 10 GPM) (for assembly 3511030)	1
	01-082400		(100 to 3,000 PSI, 20 GPM) (for assembly 3517640)	1
24	06-090400		REDUCER/ EXPANDER (6-8 F50G5)	1
25	06-048600		RUN TEE, STRAIGHT THREAD (8 R50X)	1
26	07-003013		CAP SCREW, HEX HEAD (1/4"-20 x 3")	2
27	07-060014		WASHER, FLAT (1/4" SAE)	4
28	07-050014		NUT, STOP (1/4"-20)	2
29	2126710		BRACKET, SHUTTLE VALVE MOUNTING (ref.)	1

TITLE: VALVE BANK ASSEMBLY (LIFT, SWING, TELESCOPE)

PLATE NO. C02.26 | **SIMON AERIALS INC.** REV. 08/26/91 | PART NO.

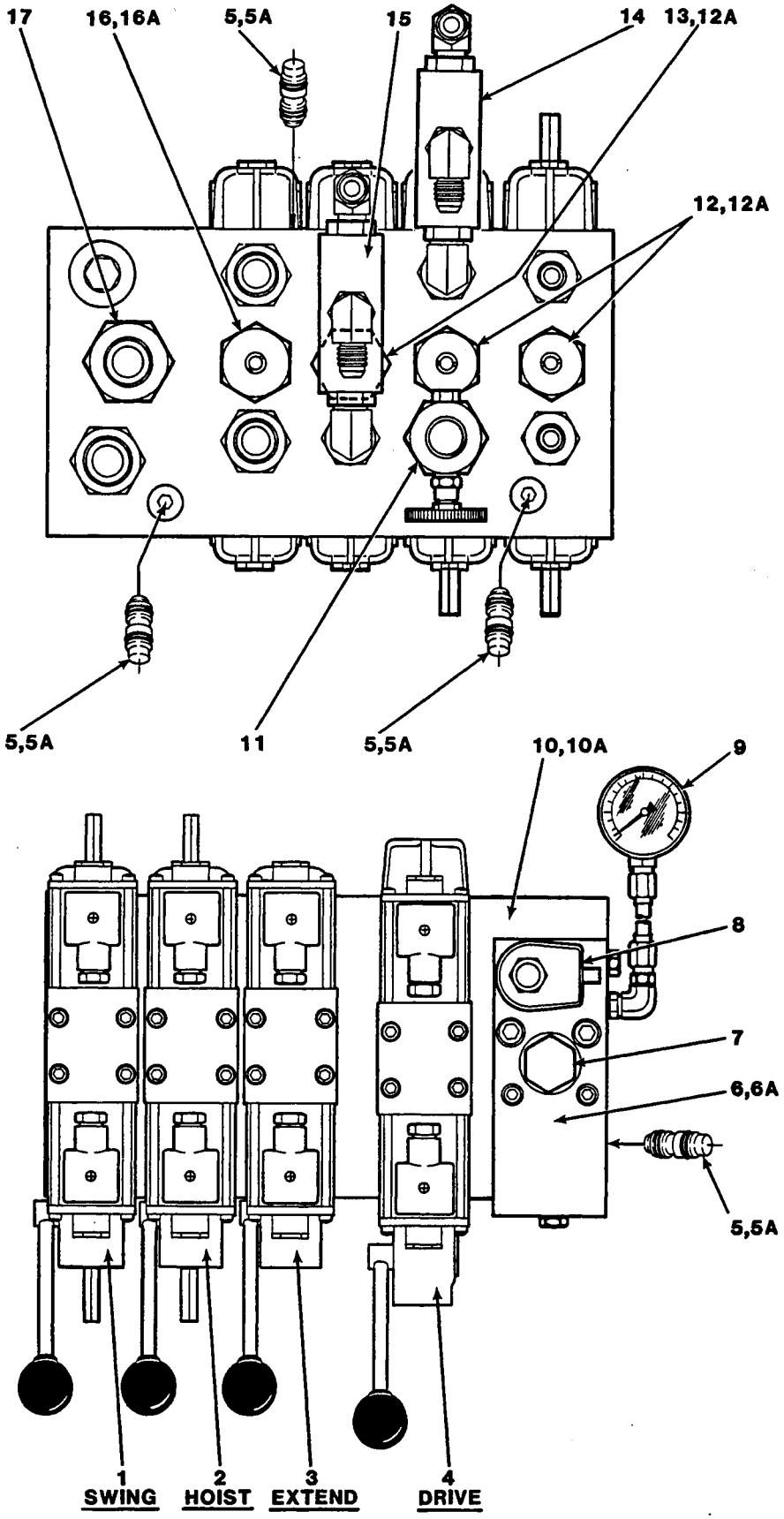


TITLE	VALVE BANK ASSEMBLY (LIFT, SWING, TELESCOPE)		
SIMON AERIALS INC.	REV. 08/26/91	PART NO.	PLATE NO. C02.26

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-040304	D13.3	SOLENOID CONTROL VALVE, 4-WAY (SWING)	1
2	01-040303	D13.3	SOLENOID CONTROL VALVE, 4-WAY (HOIST)	1
3	01-040302	D13.3	SOLENOID CONTROL VALVE, 4-WAY (EXTEND)	
4	01-040301	D13.3	SOLENOID CONTROL VALVE, 4-WAY (DRIVE)	1
5	01-040317		SHUTTLE VAVLE	4
5A			SEAL KIT, SHUTTLE VALVE	4
6	01-040314		AUXILLIARY MANIFOLD BODY	1
6A			SEAL KIT, AUXILLIARY MANIFOLD	1
7	01-040309		FLOW CONTROL VALVE, 6GPM	1
8	01-040308		CARTRIDGE SOLENOID CONTROL VALVE, 3-WAY	1
9	01-021000		PRESSURE GAUGE	1
10	01-040315		MANIFOLD BODY	1
10A			SEAL KIT, MANIFOLD	1
11	01-032700		NEEDLE VALVE	1
12	01-040313		CARTRIDGE COMPENSATOR, SERIES 10	2
12A			SEAL KIT, CARTRIDGE COMPENSATOR	3
13			CARTRIDGE COMPENSATOR, SERIES 10	1
14	01-015900		PILOT OPERATED CHECK VALVE	1
15	01-082400		PRESSURE REDUCING VALVE	1
16			CARTRIDGE COMPENSATOR, SERIES 12	1
16A			SEAL KIT, CARTRIDGE COMPENSATOR	1
17	01-015900		CHECK VALVE	1

DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY (SWING, HOIST, EXTEND, DRIVE)	



0687/0687

DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY (SWING, HOIST, EXTEND, DRIVE)	

PARTS LIST

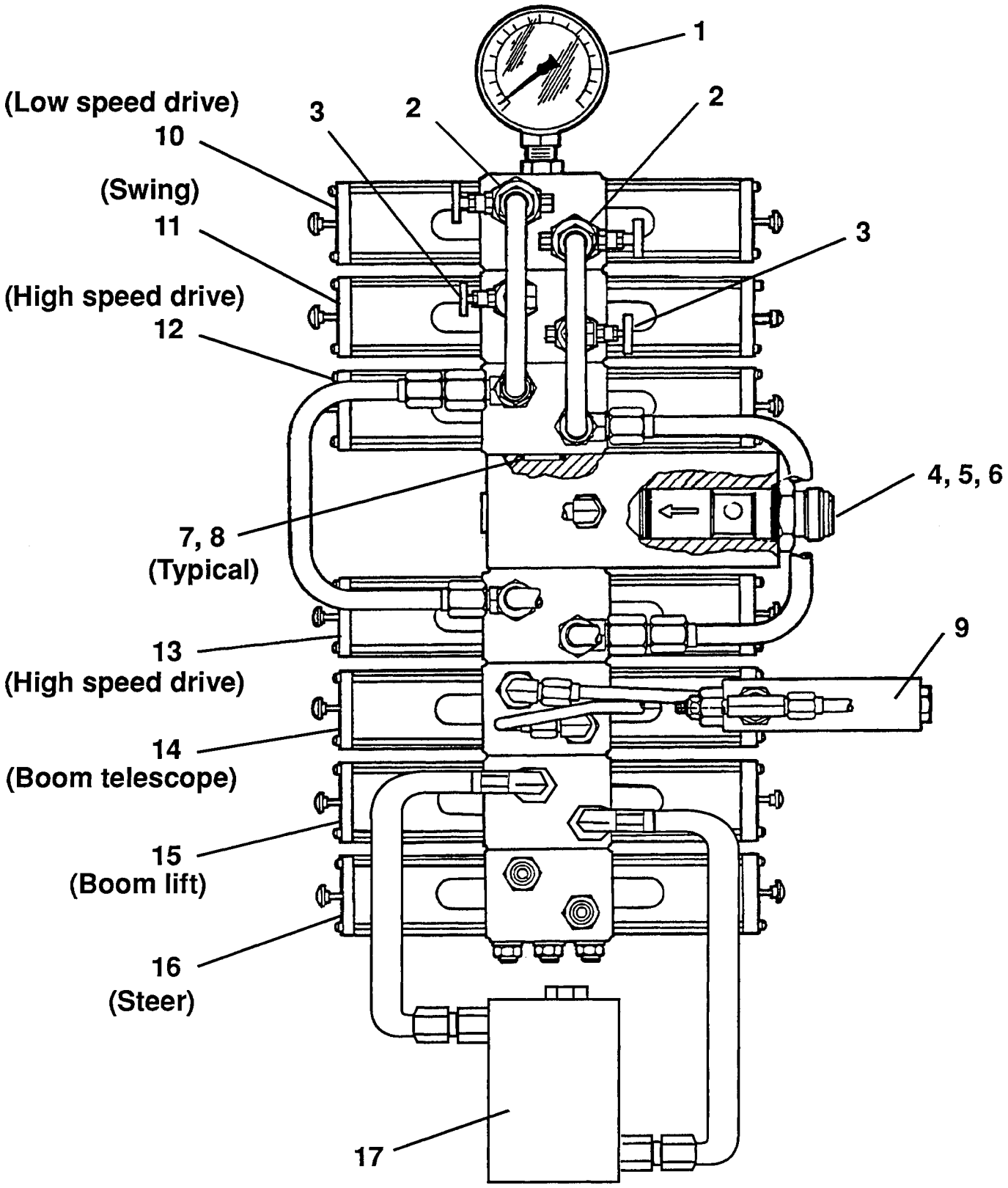
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-021000		GAUGE, PRESSURE	1
2	01-019000		VALVE, NEEDLE (#8 SAE port) (two not shown)	4
3	01-018900		VALVE, NEEDLE (#6 SAE port)	2
4	01-034200		"O"-RING [1.051" (26.695 mm) I.D.]	A.R.
5	01-034100		VALVE, CHECK	1
6	2015109		SPACER	1
7	01-031702		"O"-RING [3/4" (19 mm) O.D.]	7
8	01-031703		"O"-RING [1-1/16" (27 mm) O.D.]	7
9	01-082400		VALVE, PRESSURE REDUCING	1
10	01-031800	D13.02	VALVE, SOLENOID CONTROL (4-way, motoring spool) (Low speed drive)	1
11	01-031800	D13.02	VALVE, SOLENOID CONTROL (4-way, motoring spool) (Swing)	1
12	01-031700	D13.01	VALVE, SOLENOID CONTROL (4-way, closed spool) (High speed drive)	1
13	01-031700	D13.01	VALVE, SOLENOID CONTROL (4-way, closed spool) (High speed drive)	1
14	01-031800	D13.02	VALVE, SOLENOID CONTROL (4-way, motoring spool) (Boom telescope)	1
15	01-031800	D13.02	VALVE, SOLENOID CONTROL (4-way, motoring spool) (Boom lift)	1
16	01-031800	D13.02	VALVE, SOLENOID CONTROL (4-way, motoring spool) (Steer)	1
17	01-068200		VALVE, CHECK (Pilot operated)	1

TITLE: VALVE BANK ASSEMBLY

PLATE NO. C02.29

SIMON AERIALS INC. REV. 10/15/90

PART NO.



TITLE	VALVE BANK ASSEMBLY		
SIMON AERIALS INC. REV. 10/15/90		PART NO.	PLATE NO. C02.29

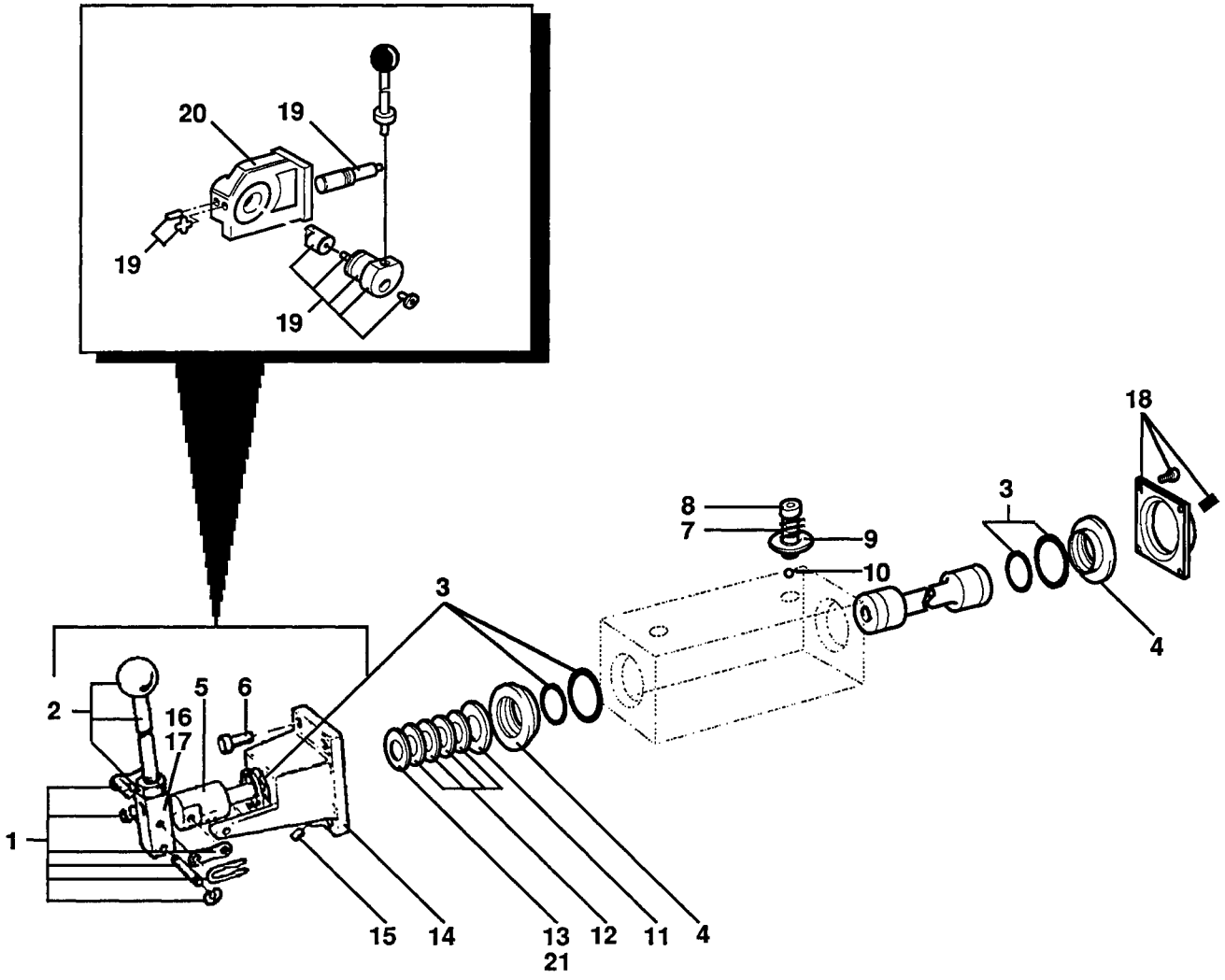
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-061717		CONNECTOR ASSEMBLY	1
2	01-061701		LEVER ASSEMBLY	1
3	01-061716		SEALING KIT	1
4	01-061708		SEAL RING KIT	1
5	01-061702		BOLT	1
6	01-061703		SCREW	2
7	01-061704		SPRING, PRESSURE	2
8	01-061705		SCREW	2
9	01-061706		RING, SEAL	2
10	01-061707		BALL	2
11	01-061709		SPACER	1
12	01-061710		PLATE, SPRING	10
13	01-061711		WASHER	1
14	01-061712		HOUSING	1
15	01-061713		PIN, THREAD	1
16	01-061714		BRACKET	1
17	01-061715		BRACKET	1
18	01-061718		COVER ASSEMBLY	1
19*	01-061723		PIVOT ASSEMBLY	1
20*	01-061719		HOUSING	1
21*	01-061724		RING, CENTERING	1
			*USED ON EARLIER MODELS NOTE: ITEMS WHICH ARE NOT LISTED CANNOT BE ORDERED SEPARATELY; ORDER COMPLETE ASSEMBLY IF REPLACEMENT IS REQUIRED.	

TITLE: VALVE BANK ASSEMBLY (FULL HYDRAULIC)

PLATE NO. C02.30 | **SIMON AERIALS INC.** REV. 11/30/90 | PART NO. 01-061700

USED ON EARLIER MODELS



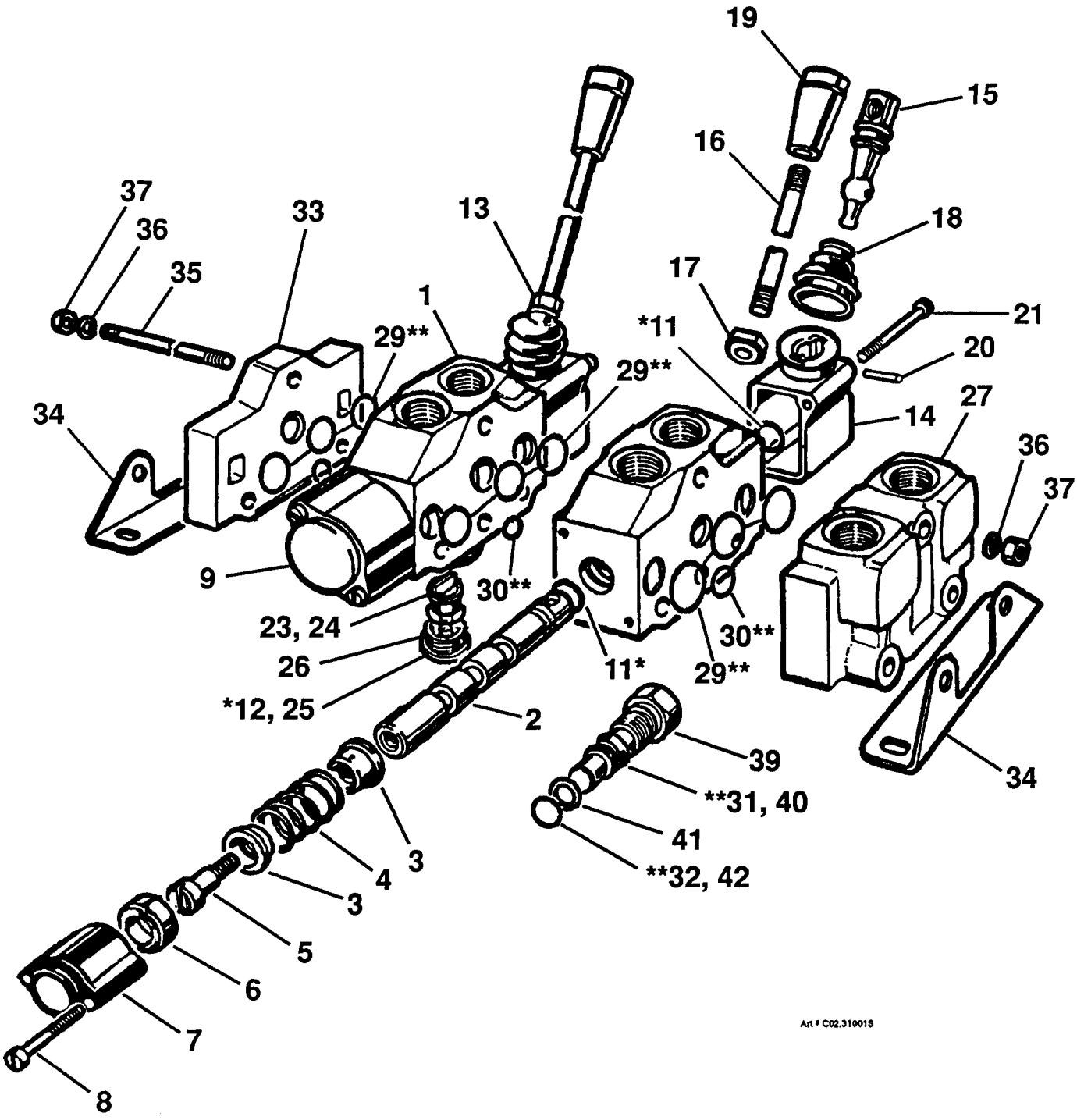
TITLE	VALVE BANK ASSEMBLY (FULL HYDRAULIC)		
SIMON AERIALS INC. REV. 11/30/90	PART NO. 01-061700	PLATE NO. C02.30	

PARTS LIST

ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
1			BODY, VALVE SECTION	3
2			SPOOL ASSEMBLY (HDS 130, Type "A")	3
3			WASHER, SPRING (front)	6
4			SPRING, POSITIONER	3
5			PIN, SPRING	3
6			HEAD, SPACER	3
7			HEAD, CAP	3
8			SCREW, SLOTTED	3
9			POSITIONER	3
10	01-099502		SEAL KIT, BODY SECTION (can use with water glycol fluid)	3
			Note: Items in seal kit identified by one asterisk (*).	
11*			O-RING, SPOOL	2
12*			O-RING, CHECK VALVE (also p.o. check valve, item 22)	1
13	01-099503		LEVER ASSEMBLY	3
14			CAP, HANDLE	1
15			TERMINAL (for horizontal lever)	1
16			HANDLE	1
17			NUT, HEX	1
18			BOOT, HANDLE	1
19			KNOB, HANDLE	1
20			PIN	3
21			SCREW, SLOTTED	6
22			VALVE, CHECK	3
23			SPRING	3
24			POPPET	3
25*			O-RING, CHECK VALVE (also p.o. seal kit, item 10)	1
26			WASHER, CHECK VALVE	3
27			HEAD, INLET/ OUTLET	1
28	01-099501		SEAL KIT, INLET/ OUTLET (can use with water glycol fluid)	1
			Note: Items in seal kit identified by two asterisks (**).	
29**			O-RING	9
30**			O-RING	3
31**			O-RING (also part of Relief Valve, item 38)	1
32**			O-RING (also part of Relief Valve, item 38)	1
33			COVER, END (standard)	1
34			BRACKET	2
35			ROD, TIE	3
36			WASHER, SPRING	6
37			NUT, HEX	6

TITLE VALVE BANK ASSEMBLY (LIFT, SWING, TELESCOPE) (PLATE 1 OF 2)

PLATE NO. C02.31 | **SIMON AERIALS INC.** REV. 06/18/91 | PART NO. 01-099500



TITLE VALVE BANK ASSEMBLY (LIFT, SWING, TELESCOPE) (PLATE 1 OF 2)

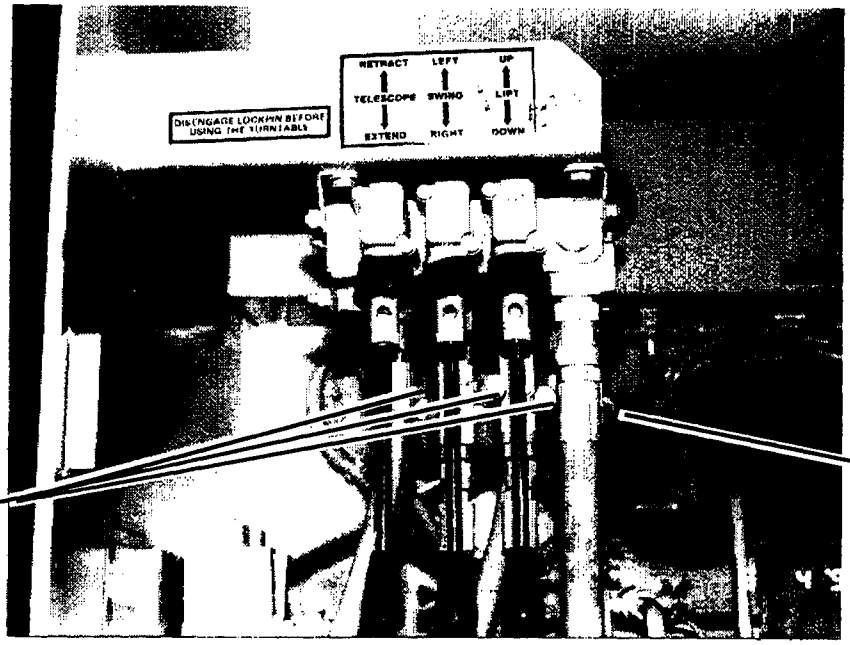
SIMON AERIALS INC. ORIGIN 07/16/90	PART NO. 01-099500	PLATE NO. C02.31

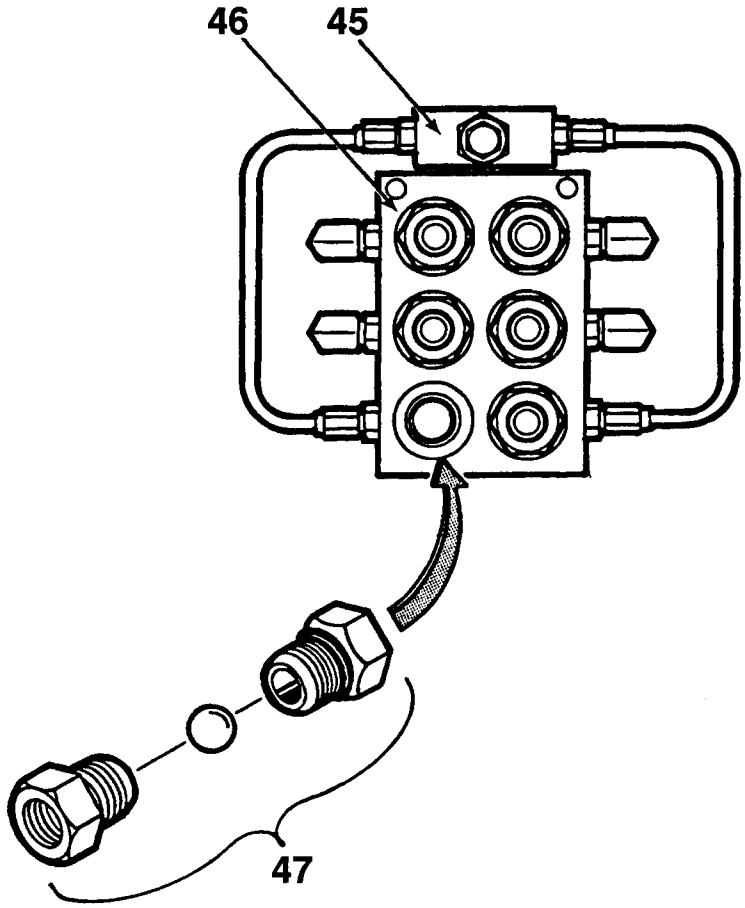
PARTS LIST

ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
38			VALVE, RELIEF (closed)	1
39			PLUG, CARTRIDGE	1
40**			O-RING	1
41			RING, BACK-UP	1
42**			O-RING	1
43	01-018900		VALVE, NEEDLE (#6 SAE ports)	3
44	01-019000		VALVE, NEEDLE (#8 SAE ports)	1
45	01-012800		VALVE, PRESSURE REDUCING	1
46	01-071300		BLOCK, SHUTTLE VALVE	1
47	01-071200		SHUTTLE ASSEMBLY	6

TITLE VALVE BANK ASSEMBLY (LIFT, SWING, TELESCOPE) (PLATE 2 OF 2)

PLATE NO. C02.31 | **SIMON AERIALS INC.** REV. 06/18/91 | PART NO. 01-099500





SHUTTLE VALVE BLOCK ASSEMBLY

TITLE VALVE BANK ASSEMBLY (LIFT, SWING, TELESCOPE) (PLATE 2 OF 2)

SIMON AERIALS INC.	ORIGIN 06/18/91	PART NO. 01-099500	PLATE NO. C02.31

PARTS LIST

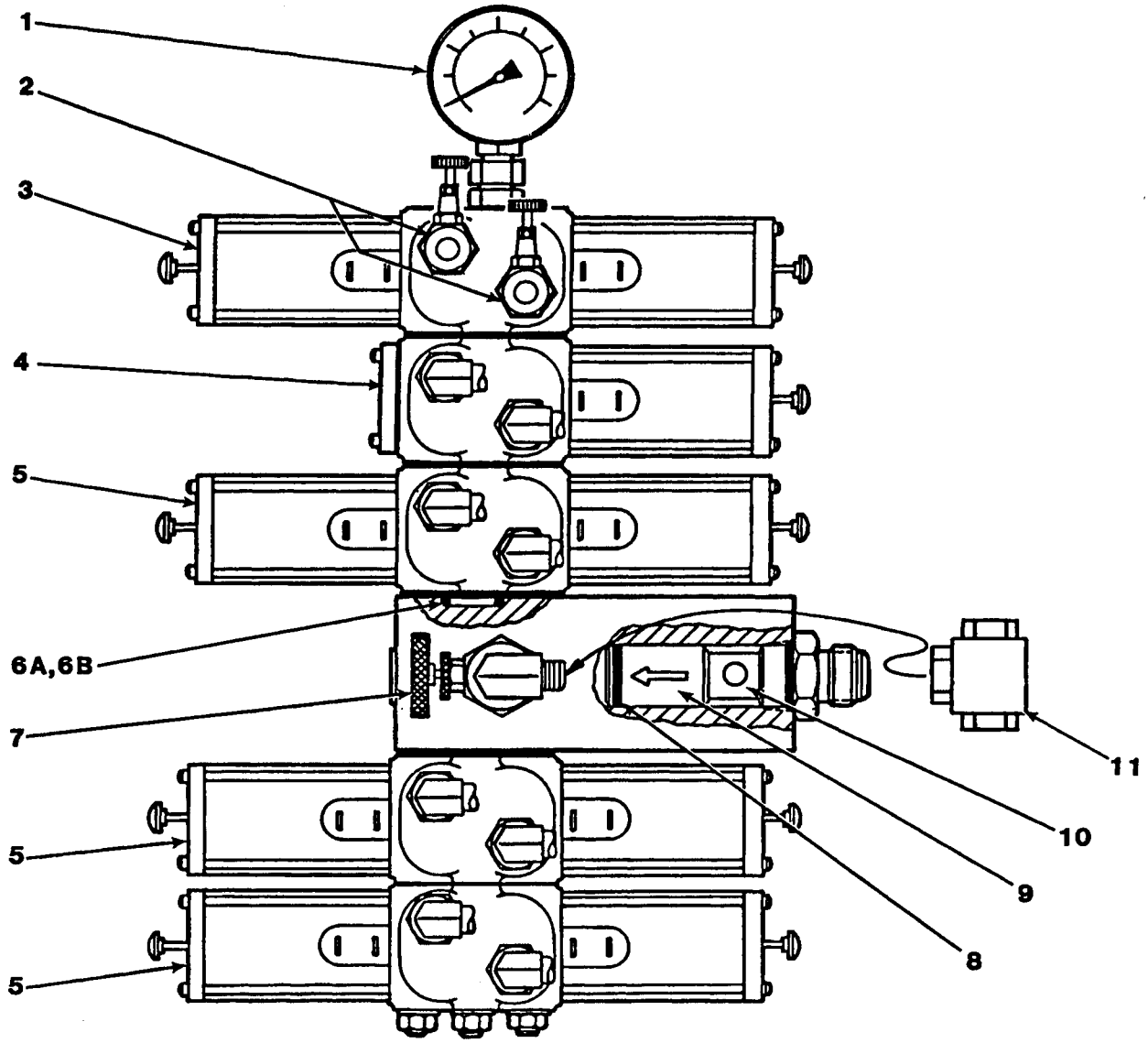
ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
1	01-021000		GAUGE, PRESSURE (0-4000 lb/in^2, 1/4" NPT)	1
2	01-019000		VALVE, NEEDLE FLOW CONTROL (#8 SAE ports)	2
3	01-031800	D13.02	VALVE, SOL. CONT., 4-WAY (low speed drive)	1
4	01-061900		VALVE, SOL. CONT., 4-WAY (diverter)	1
5	01-031700	D13.01	VALVE, SOL. CONT., 4-WAY (high speed drive, steer)	3
5A	01-031701		COIL, SOLENOID VALVE	3
5B	01-031712		SEAL KIT (for solenoid valve)	1
6A	01-031703		O-RING, 1-1/16" O.D.	10
6B	01-031702		O-RING, 3/4" O.D.	10
7	01-012300		VALVE, PRESSURE COMPENSATED NEEDLE	1
8	01-034200		O-RING	1
9	01-200600		VALVE, CHECK	1
10	20151090		SPACER	1
11	01-013800		VALVE, SHUTTLE	1
12	01-071200		SEAL KIT (for shuttle valve)	1

TITLE VALVE BANK ASSEMBLY (DRIVE AND STEER)

PLATE NO. C02.32

SIMON AERIALS INC. ORIGIN 07/20/90

PART NO.



TITLE	VALVE BANK ASSEMBLY (DRIVE AND STEER)		
SIMON AERIALS INC. ORIGIN 07/20/90		PART NO.	PLATE NO. C02.32

PARTS LIST

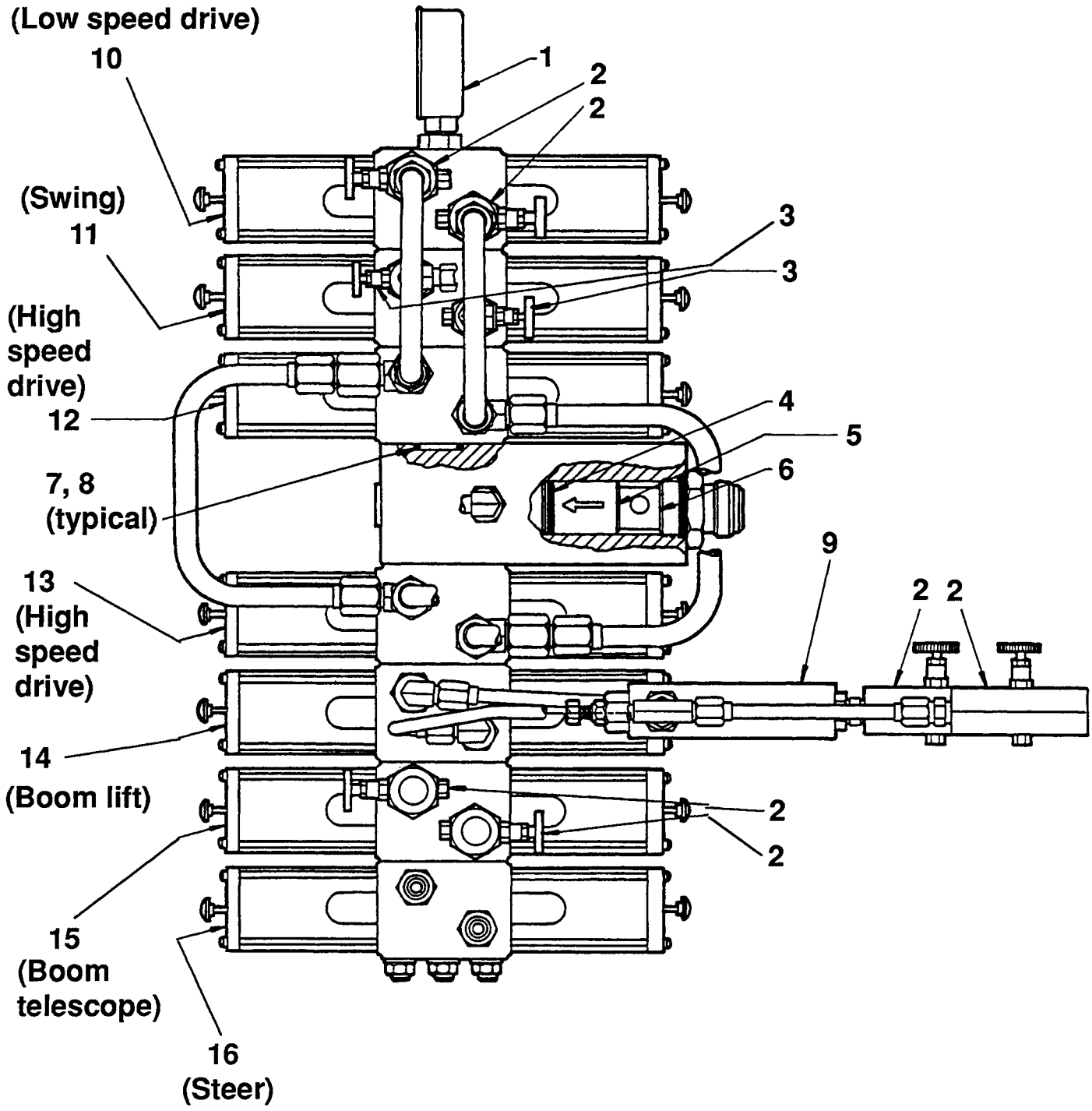
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-021000		GAUGE, PRESSURE	1
2	01-032700		VALVE, NEEDLE [1/2" (13 mm)]	6
3	01-000500		VALVE, NEEDLE [3/8" (9.5 mm)]	2
4	01-034200		"O"-RING [1.051" (26.695 mm) I.D.]	1
5	01-034100		VALVE, CHECK	1
6	2015109		SPACER	1
7	01-031703		"O"-RING [1-1/16" (27 mm) O.D.]	7
8	01-031702		"O"-RING [3/4" (19 mm) O.D.]	7
9	01-012800		VALVE, PRESSURE REDUCING	1
10	01-031800	D13.02	VALVE, SOLENOID CONTROL (4-way, motoring spool) (Low speed drive)	1
11	01-031800	D13.02	VALVE, SOLENOID CONTROL (4-way, motoring spool) (Swing)	1
12	01-031700	D13.01	VALVE, SOLENOID CONTROL (4-way, closed spool) (High speed drive)	1
13	01-031700	D13.01	VALVE, SOLENOID CONTROL (4-way, closed spool) (High speed drive)	1
14	01-031700	D13.01	VALVE, SOLENOID CONTROL (4-way, closed spool) (Boom lift)	1
15	01-031700	D13.01	VALVE, SOLENOID CONTROL (4-way, closed spool) (Boom telescope)	1
16	01-031700	D13.01	VALVE, SOLENOID CONTROL (4-way, closed spool) (Steer)	1

TITLE: VALVE BANK ASSEMBLY

PLATE NO. C02.33

SIMON AERIALS INC. NEW 10/01/90

PART NO.



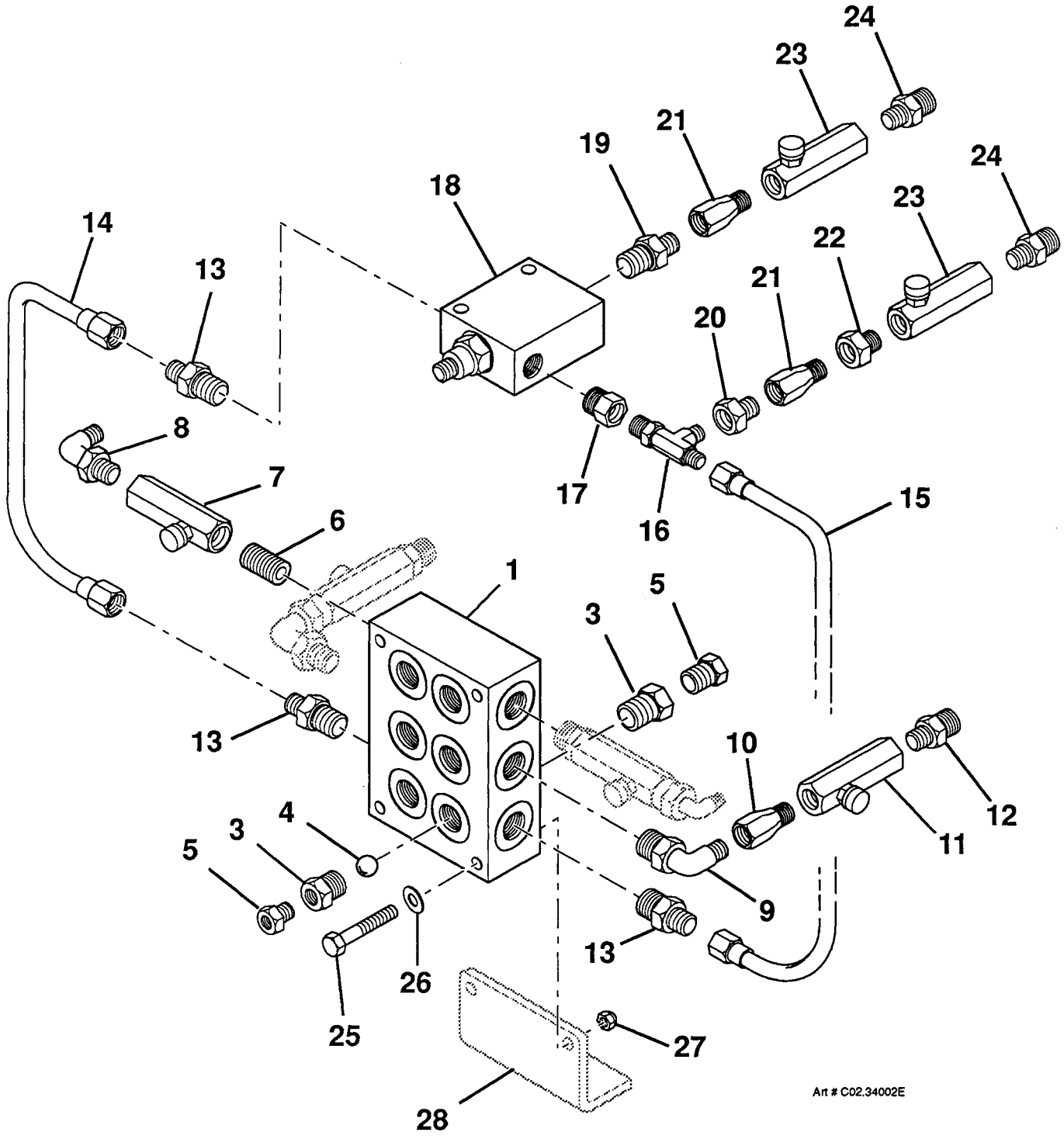
TITLE	VALVE BANK ASSEMBLY		
SIMON AERIALS INC. NEW 10/01/90		PART NO.	PLATE NO. C02.33

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	3524470		SHUTTLE VALVE ASSEMBLY (MP 70 and smaller, with Ground control C02.35)	1
			SHUTTLE VALVE ASSEMBLY (MP 80 and larger, with Ground control C02.35)	1
1	01-071300		BLOCK, SHUTTLE VALVE	1
2	01-071200		VALVE KIT, SHUTTLE	6
3			SEAT (with "O"-Ring)	2
4			BALL	1
5	06-039900		CONNECTOR, STRAIGHT THREAD (6-8 F50X)	12
6	06-096200		UNION (8 F50 F50)	2
7	01-019000		VALVE, FLOW CONTROL (Needle valve) (#8 SAE Ports)	2
8	06-044800		ELBOW, STRAIGHT THREAD (8 C50X)	2
9	06-044700		ELBOW, STRAIGHT THREAD (6-8 C50X)	2
10	06-079000		ADAPTER, PIPE THREAD (6 F65X)	2
11	01-018900		VALVE, FLOW CONTROL (Needle valve) (#6 SAE Ports)	2
12	06-039800		CONNECTOR, STRAIGHT THREAD (6 F50X)	2
13	06-040100		CONNECTOR, STRAIGHT THREAD (8 F50X)	3
14	3515610		TUBE ASSEMBLY (left hand)	1
15	3515600		TUBE ASSEMBLY (right hand)	1
16	06-048600		RUN TEE, STRAIGHT THREAD (8 R50X)	1
17	06-090400		REDUCER/ EXPANDER (6-8 F50G5)	1
18			VALVE, PRESSURE REDUCING	
	01-012800		(100 to 3,000 PSI, 10 GPM) (MP 70 and smaller)	1
	01-082400		(100 to 3,000 PSI, 20 GPM) (MP 80 and larger)	1
19	06-039900		CONNECTOR, STRAIGHT THREAD (6-8 F50X)	1
20	06-057600		NUT, TUBE (8 BTX) (MP 70 and smaller)	1
	06-057800		NUT, TUBE (12 BTX) (MP 80 and larger)	1
21	06-079000		ADAPTER, PIPE THREAD (6 F65X)	2
22	06-060300		REDUCER, TUBE END (8-6 TRTX)	1
23			VALVE, FLOW CONTROL (Needle valve)	
	01-018900		(#6 SAE Ports) (MP 70 and smaller)	2
	01-019000		(#8 SAE Ports) (MP 80 and larger)	2
24	06-039800		CONNECTOR, STRAIGHT THREAD (6 F50X)	2
25	07-003013		CAP SCREW, HEX HEAD (1/4"-20 x 3")	2
26	07-060014		WASHER, FLAT (1/4" SAE)	2
27	07-050014		NUT, STOP (1/4"-20)	2
28	2126710		BRACKET, SHUTTLE VALVE MOUNTING (ref.)	1

TITLE: SHUTTLE VALVE ASSEMBLY, MP (FULL HYDRAULIC)

PLATE NO. C02.34 | **SIMON AERIALS INC.** NEW 08/26/91 | PART NO.



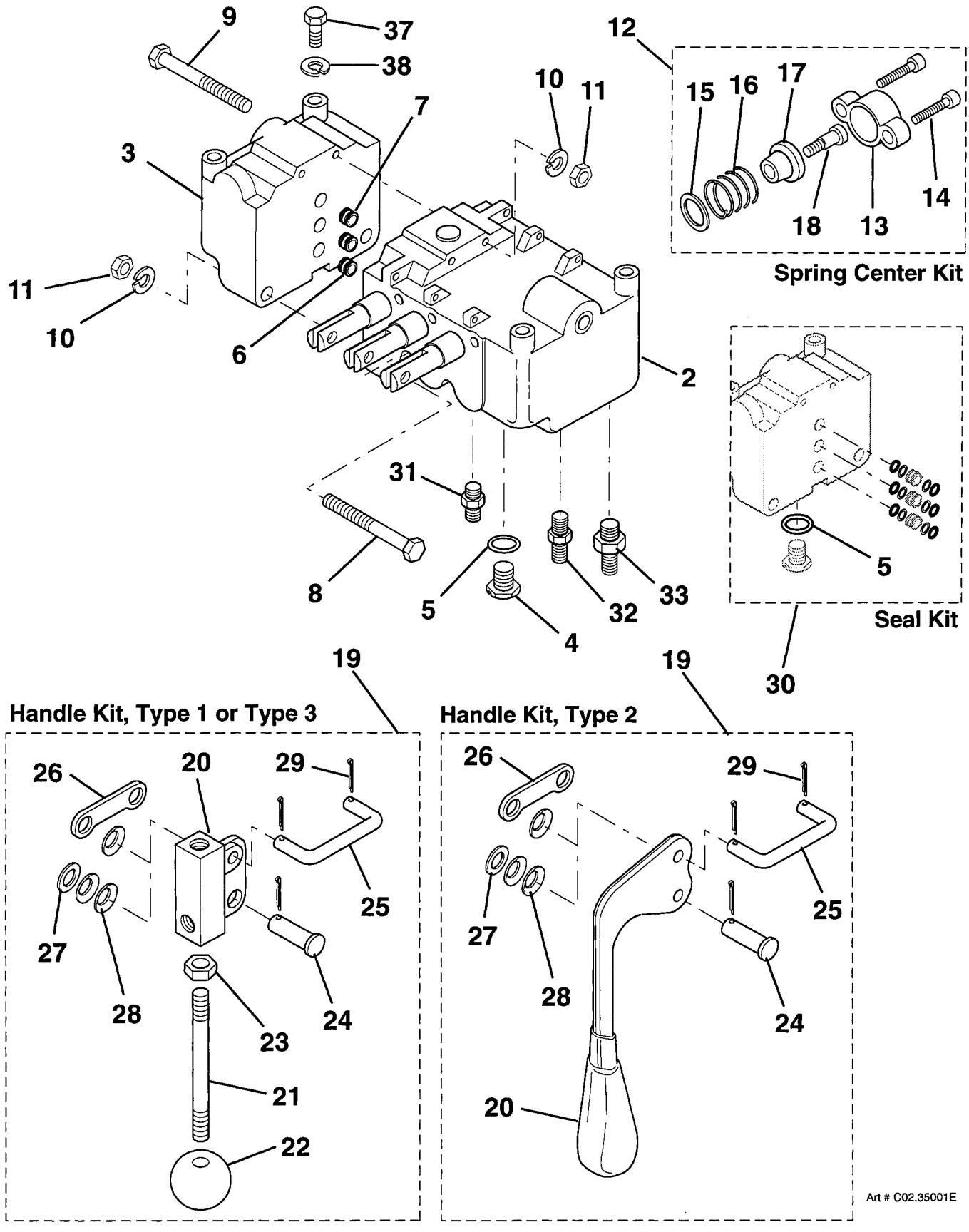
TITLE	SHUTTLE VALVE ASSEMBLY, MP (FULL HYDRAULIC)		
SIMON AERIALS INC.	NEW 08/26/91	PART NO.	PLATE NO. C02.34

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			GROUND VALVE BANK ASSEMBLY	
	352 4480		with "Type 1" or "Type 2" Handle (Item19)	
	353 4260		with "Type 3" Handle (Item19)	
	354 4270		for special MP 70 application	
1			VALVE BANK ASS'Y., GROUND CONTROL (3 Spool)	1
	01-207000		with "Type 1" or "Type 2" Handle (Item19)	
	01-226600		with "Type 3" Handle (Item19)	
2	01-207006		INLET SECTION, 3 SPOOL	1
3			END SECTION	1
4			PLUG, HEX HEAD	1
5			"O"-RING (also part of Seal Kit, item 30)	1
6	01-098416		TUBE ASSEMBLY, FEEDER (11/16" O.D.)	1
7	01-098415		TUBE ASSEMBLY, FEEDER (3/4" O.D.)	2
8			CAP SCREW, HEX HEAD (1/4"-20 x 2-1/4", Grade 5)	2
9	07-003013		CAP SCREW, HEX HEAD (1/4"-20 x 3", Grade 5)	2
10			WASHER, HELICAL LOCK (1/4")	4
11			NUT, HEX (1/4"-20, Grade 5)	4
12	01-207005		SPRING CENTER KIT	4
13			CAP, END	1
14			SCREW	2
15			WASHER	1
16			SPRING, RETURN	1
17			SPACER	1
18			BOLT, SHOULDER	1

TITLE VALVE BANK ASSEMBLY, GROUND (LIFT, SWING, TELESCOPE) (1 OF 2)

PLATE NO.			PART NO.
C02.35	**SIMON AERIALS INC.**	REV. 14 SEP, 1995	



TITLE VALVE BANK ASSEMBLY, GROUND (LIFT, SWING, TELESCOPE) (1 OF 2)

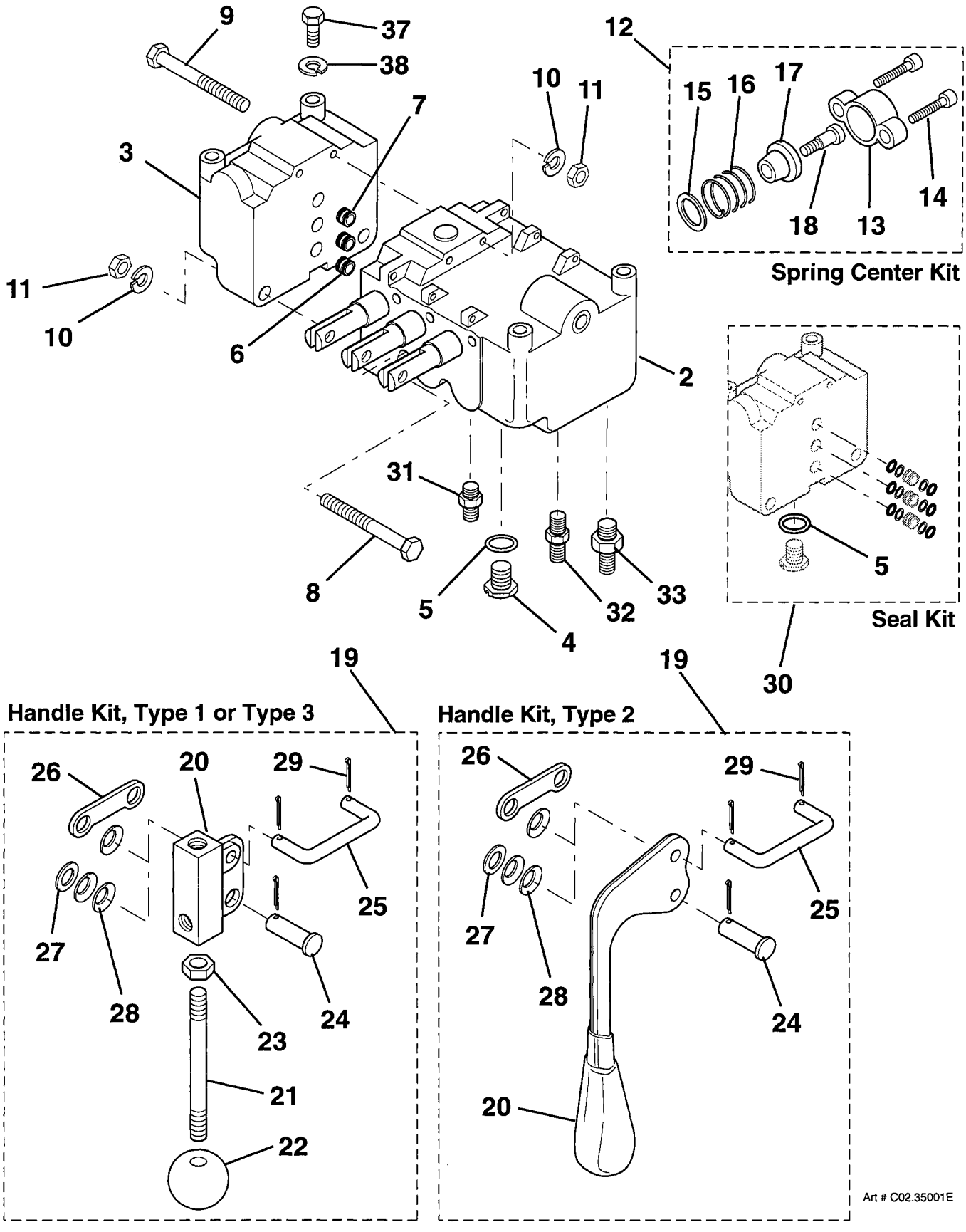
SIMON AERIALS INC.	REV. 14 SEP, 1995	PART NO.	PLATE NO. C02.35

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
19			HANDLE KIT	3
	01-098701		Type 1 (handle is a 3" [76 mm] long threaded rod, with a separate ball knob)	
	01-207002		Type 2 (has a one-piece handle)	
	01-098902		Type 3 (handle is a 5-3/4" [146 mm] long threaded rod, with a separate ball knob)	
20	01-098402		BLOCK, PIVOT (for Type 1 or Type 3 handle)	1
	01-207003		HANDLE (for Type 2 only)	1
21			ROD, HANDLE	1
	01-098406		3" (76 mm) long	
	01-098503		5-3/4" (146 mm) long	
22	01-098407		KNOB, BALL (Plastic)	1
23	01-098408		NUT, JAM	1
24	01-098403		PIN, CLEVIS	1
25	01-098413		"C"-HOOK	1
26	01-098414		LINK	2
27	01-098411		WASHER, FLAT	1
28	01-098409		WASHER, SPRING (use 1 with link, 2 without link)	A.R.
29	01-207004		PIN, COTTER	3
30	01-207001		SEAL KIT	1
31	06-039900		ADAPTER, "O"-RING TO 37° (6-8 F5OX-S)	6
32	06-040000		ADAPTER, "O"-RING TO 37° (6-10 F5OX-S)	1
33	06-041000		ADAPTER, "O"-RING TO 37° (12-10 F5OX-S)	1
34	01-018900		VALVE, FLOW CONTROL (Needle valve) #6 SAE Ports)	
			(not used on assembly 354 4270)	1
35	06-047000		45° ELBOW, "O"-RING TO 37° (6 V5OX-S)	
			(not used on assembly 354 4270)	1
36	06-079000		CONNECTOR, SWIVEL NUT (6 F65OX-S)	
			(not used on assembly 354 4270)	1
37			CAP SCREW, HEX HEAD	4
	07-003449		5/16"-24 x 1/2" (some versions)	
	07-003450		5/16"-24 x 3/4" (some versions), used with . . .	
	07-062015		WASHER, FLAT (5/16")	4
38	07-065015		WASHER, HELICAL LOCK (5/16")	4

TITLE VALVE BANK ASSEMBLY, GROUND (LIFT, SWING, TELESCOPE) (2 OF 2)

PLATE NO.			PART NO.
C02.35	**SIMON AERIALS INC.**	REV. 14 SEP, 1995	



TITLE VALVE BANK ASSEMBLY, GROUND (LIFT, SWING, TELESCOPE) (2 OF 2)

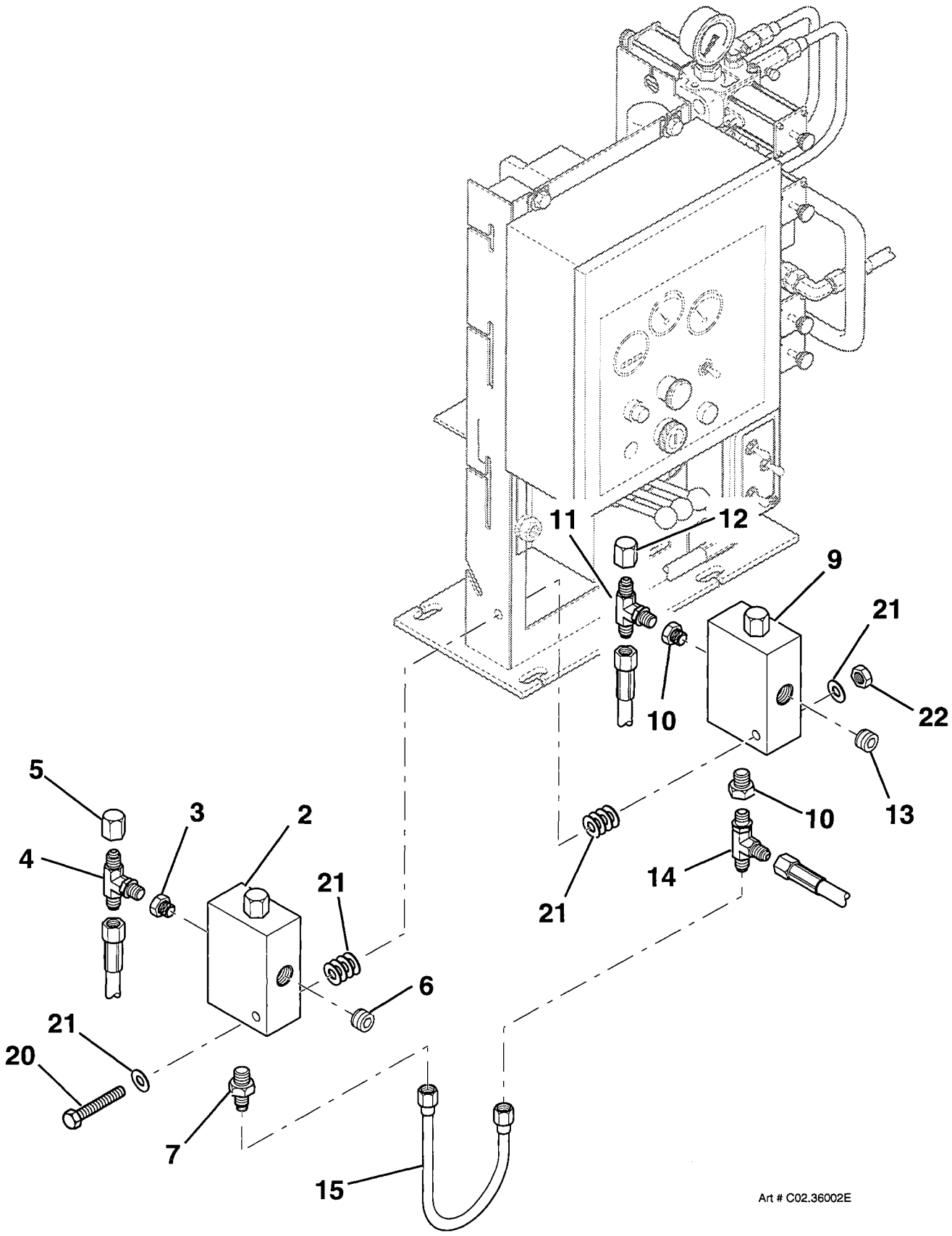
SIMON AERIALS INC. REV. 14 SEP, 1995	PART NO.	PLATE NO. C02.35

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	354 4280		RELIEF VALVE ASSEMBLY (Left hand)	1
2	201 5154		VALVE, RELIEF (Identified as "**1L24-F10T-25S**") **Note:** If there is an **additional** number stamped on the valve, and that number **is not "1600"**, please provide the number which does appear. If no stamped number is provided, the valve shipped will be set at **1600** PSI (110 Bar), and may need to be reset upon installation to ensure proper operation.	1
3	06-090800		REDUCER/ EXPANDER (10-6 F5O G5-S)	1
4	06-050000		BRANCH TEE, MALE "O"-RING TO 37° (6 S5OX-S)	1
5	06-064000		CAP, FEMALE (6 FNTX-S)	1
6	06-095200		PLUG, HEX SOCKET "O"-RING (10 HP5ON-S)	1
7	06-040000		ADAPTER, "O"-RING TO 37° (6-10 F5OX-S) **Note:** Some earlier versions used (1) each 06-090800, REDUCER/ EXPANDER (10-6 F5OG5-S) and 06-039800, ADAPTER, "O"-RING TO 37° (6 F5OX-S)	1
8	354 4290		RELIEF VALVE ASSEMBLY (Right hand)	1
9	235 1900		VALVE, RELIEF (Identified as "**1L24-F10T-25S**") **Note:** If there is an **additional** number stamped on the valve, and that number **is not "1350"**, please provide the number which does appear. If no stamped number is provided, the valve shipped will be set at **1350** PSI (93 Bar), and may need to be reset upon installation to ensure proper operation.	1
10	06-090800		REDUCER/ EXPANDER (10-6 F5O G5-S)	2
11	06-050000		BRANCH TEE, MALE "O"-RING TO 37° (6 S5OX-S)	1
12	06-064000		CAP, FEMALE (6 FNTX-S)	1
13	06-095200		PLUG, HEX SOCKET "O"-RING (10 HP5ON-S)	1
14	06-048500		RUN TEE, MALE "O"-RING TO 37° (6 R5OX-S)	1
15	350 8079		TUBE ASSEMBLY	1
16	353 6570		HOSE KIT, STEERING RELIEF VALVE	1
17	- - - - -		HOSE (Right hand Relief Valve to Dump Valve)	1
18	- - - - -		HOSE (Right hand Relief Valve to Steer Valve #4 Port)	1
19	- - - - -		HOSE (Left hand Relief Valve to Steer Valve #5 Port)	1
20	07-003017		CAP SCREW, HEX HEAD (1/4"-20 x 4", Grade 5)	1
21	07-062014		WASHER, FLAT (1/4")	10
22	07-050014		NUT, HEX LOCK (1/4"-20)	1

TITLE STEERING RELIEF VALVE ASSEMBLY

PLATE NO.			PART NO.
C02.36	**SIMON AERIALS INC.**	REV. 13 SEP., 1995	

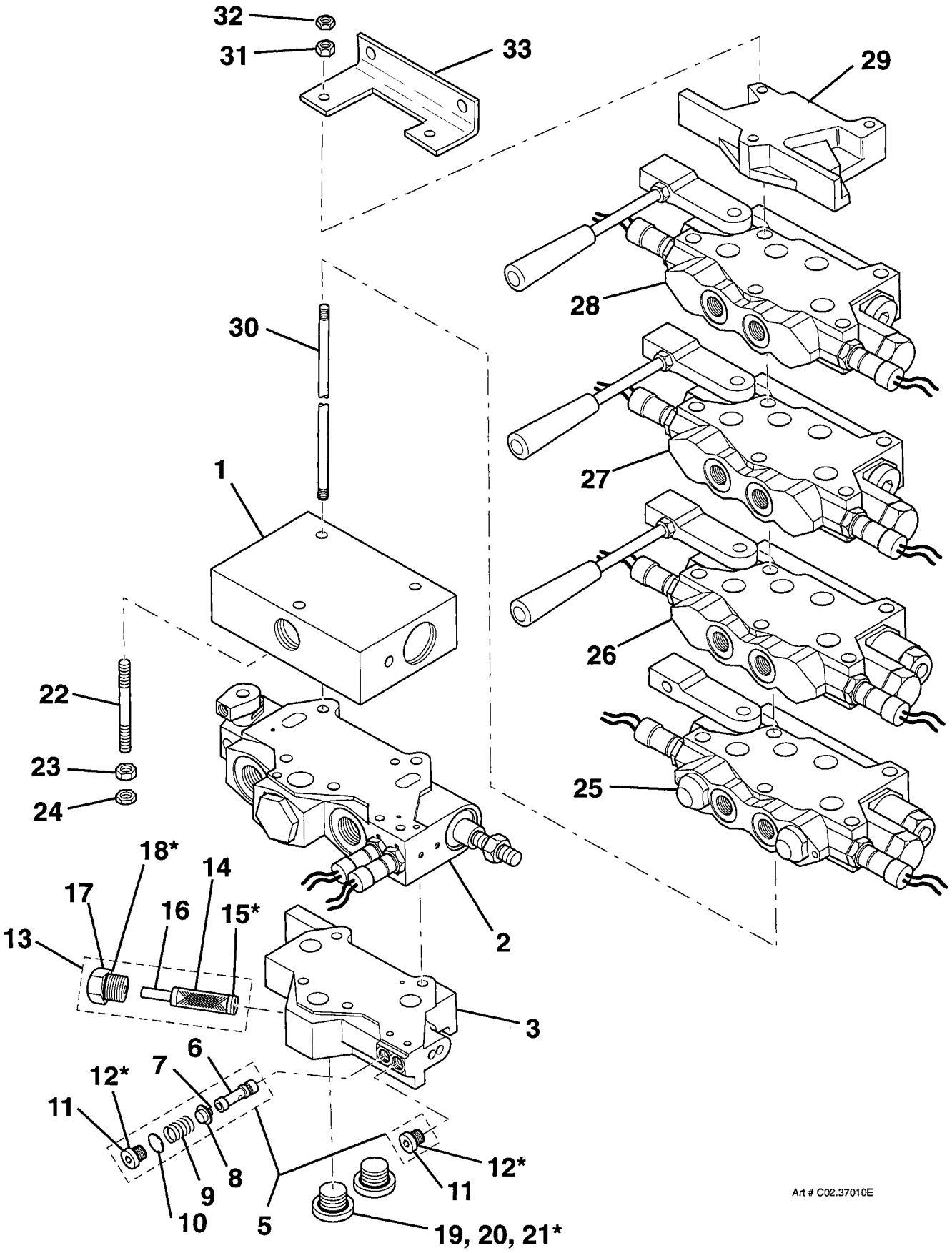


TITLE	STEERING RELIEF VALVE ASSEMBLY		
SIMON AERIALS INC. REV. 13 SEP., 1995		PART NO.	PLATE NO. C02.36

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			GROUND VALVE BANK ASSEMBLY **First type** has **external** solenoid-activated dump valve, **Second type** has **internal** solenoid-activated dump valve.	
			Note: When replacing complete valve bank **assemblies,** first or second type can be used. However, in replacing **components**, please specify if for first or second type. Valve bank components **are not** interchangeable.	
			For Model MP 40 or MPN 40:	
	01-215300		First type (nameplate stamped "VAC 5610-3001-005")	1
	01-232700		Second type (stamped "VAC 5610-0004-013")	1
			For Model MP 60:	
	01-207800		First type (nameplate stamped "VAC 5610-3001-004")	1
	01-232200		Second type (stamped "VAC 5610-0004-009")	1
			For Model MPN 60 or MP 60 Z:	
	01-210500		First type (nameplate stamped "VAC 5610-3001-006")	1
	01-232300		Second type (stamped "VAC 5610-0004-014")	1
			For Model MP 80:	
	01-210800		First type (nameplate stamped "VAC 5610-3001-001")	1
	01-232400		Second type (stamped "VAC 5610-0004-010")	1
			For Model MP 95:	
	01-210900		First type (nameplate stamped "VAC 5610-3001-002")	1
	01-232500		Second type (stamped "VAC 5610-0004-011")	1
			For Model MP 110:	
	01-211000		First type (nameplate stamped "VAC 5610-3001-003")	1
	01-232600		Second type (stamped "VAC 5610-0004-012")	1
1			MANIFOLD, ADAPTER	1
2	See plate . .	D13.06	VALVE SEGMENT, DRIVE CONTROL	1
3			INLET, LOAD SENSING	1
	01-211017		for **first type** valve bank assembly	
	Call Simon		for **second type** valve bank assembly	
4			SEAL KIT, INLET (includes all items marked with asterisk*)	1
	01-211020		for **first type** valve bank assembly	
	Call Simon		for **second type** valve bank assembly	

TITLE	GROUND VALVE BANK ASS'Y., MP (ELECTRO-PROPORTIONAL, TYPE 2)			
PLATE NO.	C02.37	**SIMON AERIALS INC.**	REV. 23 MAR., 1995	**PART NO.**



TITLE GROUND VALVE BANK ASS'Y., MP (ELECTRO-PROPORTIONAL, TYPE 2)

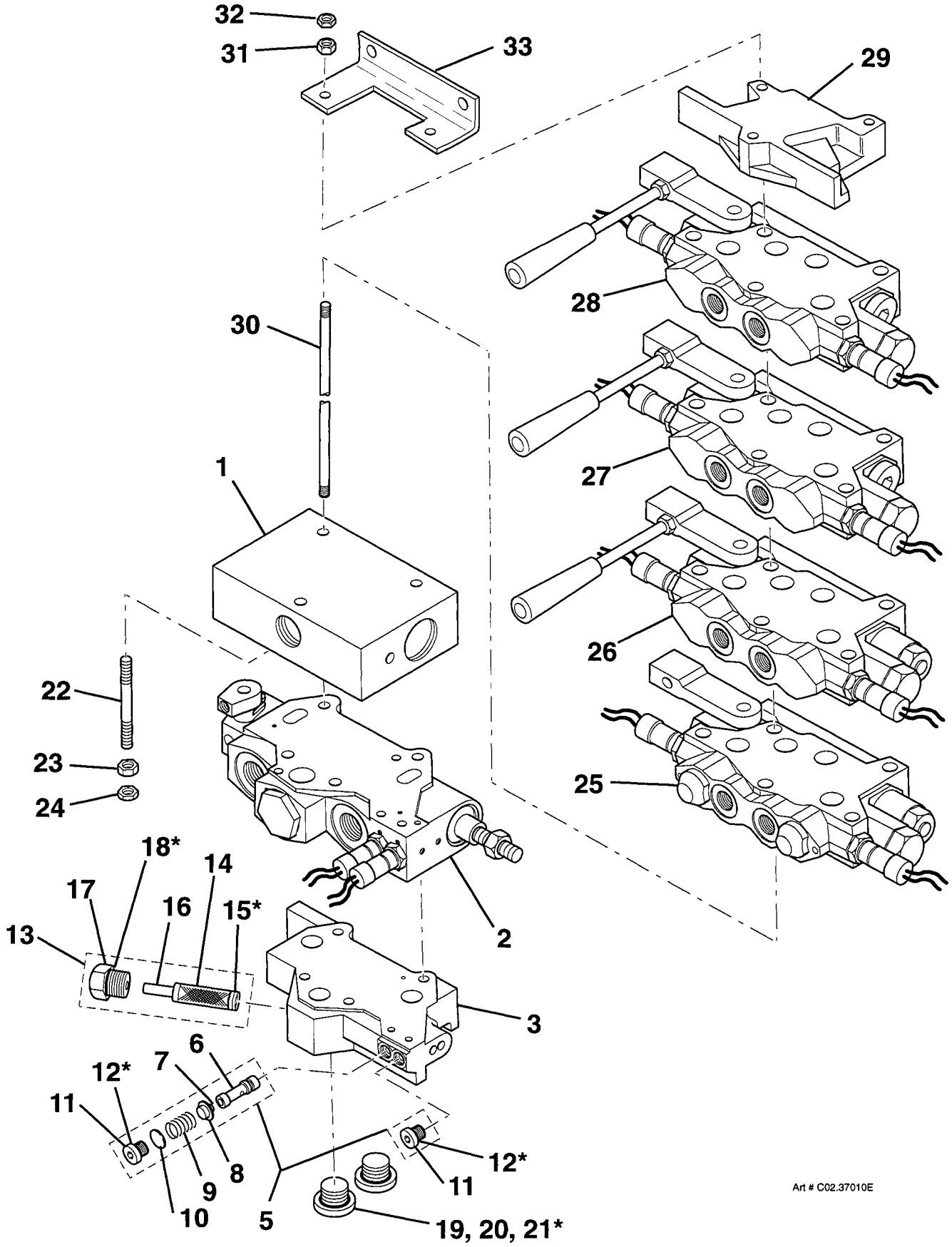
SIMON AERIALS INC.	REV. 23 MAR., 1995	PART NO.	PLATE NO. C02.37

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
5			PILOT REDUCING KIT	1
	01-211018		for **first type** valve bank assembly	
	Call Simon		for **second type** valve bank assembly	
6			SPOOL, PILOT REDUCING	1
7			BALL	1
8			GUIDE, SPRING	1
9			SPRING	1
10			SHIM	1
11			PLUG, SOCKET	2
12		*	"O"-RING	2
13			INLET FILTER KIT	1
	01-211002		for **first type** valve bank assembly	
	Call Simon		for **second type** valve bank assembly	
14			FILTER	1
15		*	"O"-RING	1
16			TUBE, FILTER EXTENSION	1
17			PLUG, SOCKET	1
18		*	"O"-RING	1
19			PLUG, SAE PORT	2
	01-211019		for **first type** valve bank assembly	
	Call Simon		for **second type** valve bank assembly	
20			PLUG	1
21		*	"O"-RING	1
22			ROD, TIE	4
23			NUT, HEX	4
24			NUT, HEX JAM	4
25	See plate . .	D13.08	VALVE SEGMENT, STEER CONTROL	1
26	See plate . .	D13.07	VALVE SEGMENT, BOOM TELESCOPE CONTROL	1
27	See plate . .	D13.09	VALVE SEGMENT, BOOM RAISE/ LOWER CONTROL	1
28	See plate . .	D13.10	VALVE SEGMENT, SWING CONTROL	1
29			PLATE, STACKING	1
	01-211028		for **first type** valve bank assembly	
	Call Simon		for **second type** valve bank assembly	
30			ROD, TIE	3
31			NUT, HEX	3
32			NUT, HEX JAM	3
33	Call Simon		BRACKET, VALVE BANK MOUNTING	1

TITLE GROUND VALVE BANK ASS'Y., MP (ELECTRO-PROPORTIONAL, TYPE 2)

PLATE NO.			PART NO.
C02.37	**SIMON AERIALS INC.**	REV. 23 MAR., 1995	

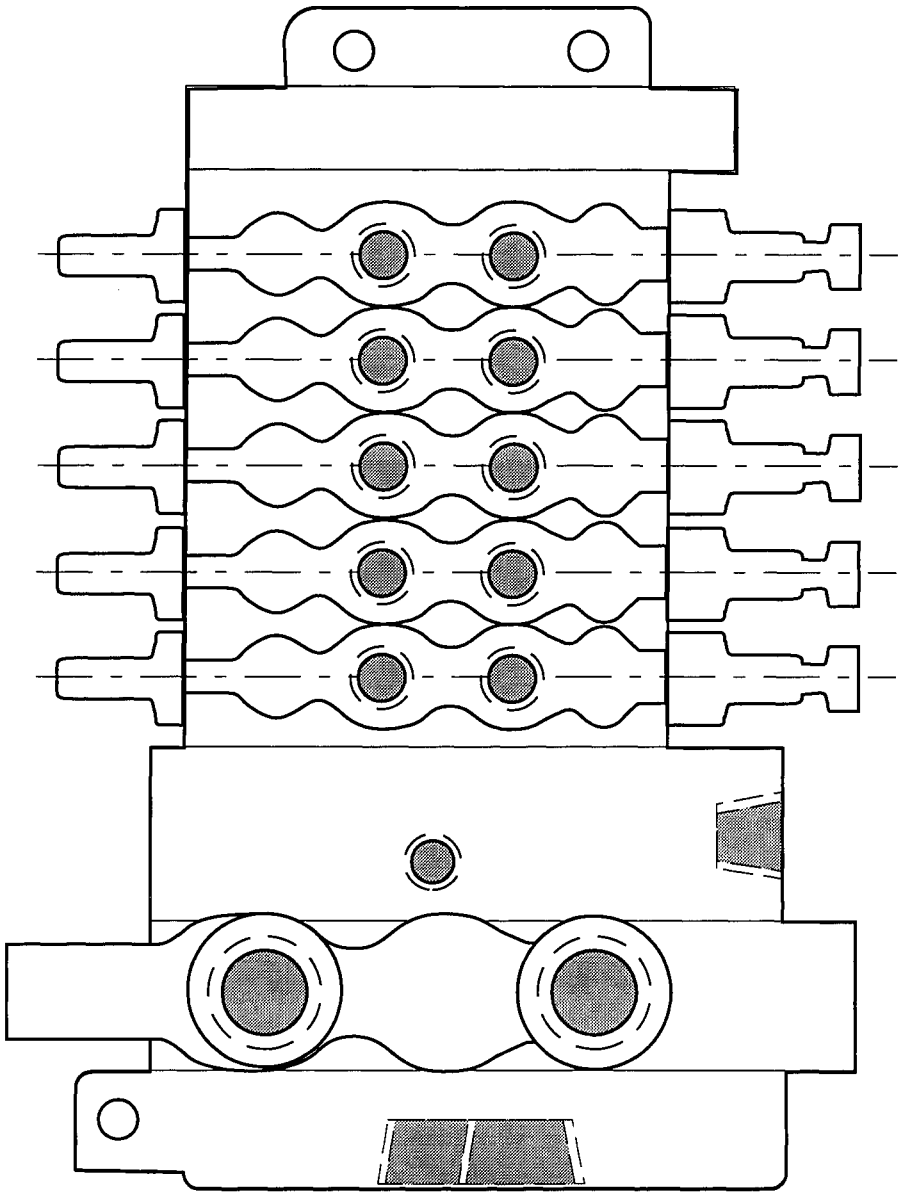


TITLE GROUND VALVE BANK ASS'Y., MP (ELECTRO-PROPORTIONAL, TYPE 2)

SIMON AERIALS INC.	REV. 23 MAR., 1995	PART NO.	PLATE NO. C02.37

ITEM	PART NO	SEE SECTION	
			The followi may be in
34	01-018200		VALVE, CH
35	01-068200		VALVE, CH
36	01-019000		VALVE, FL
37	01-021000		GAUGE, H
38	01-036700		"O"-RING (
39	06-039800		ADAPTER
40	06-043000		ADAPTER
41	06-039900		ADAPTER
42	06-040000		ADAPTER
43	06-040100		ADAPTER
44	06-207800		ADAPTER
45	06-040800		ADAPTER
46	06-043300		ADAPTER
47	06-041400		ADAPTER
48	06-086600		ADAPTER
49	06-090600		REDUCER
50	06-091100		REDUCER
51	06-091900		REDUCER
52	06-053000		45° ELBOV
53	06-053100		45° ELBOV
54	06-047000		45° ELBOV
55	06-047100		45° ELBOV
56	06-051500		90° ELBOV
57	06-044600		90° ELBOV
58	06-044700		90° ELBOV
59	06-044800		90° ELBOV
60	06-045600		90° ELBOV
61	06-051600		90° ELBOV
62	06-051800		90° ELBOV
63	06-052000		90° ELBOV
64	06-097300		90° ADAPT
65	06-054500		RUN TEE,
66	06-048600		RUN TEE,
67	06-056000		BRANCH T
68	06-057600		NUT, TUBE
69	06-060300		REDUCER
70	219 0140		TUBE ASS
71	219 0160		TUBE ASS
72	350 7665		TUBE ASS
73	353 4140		TUBE ASS

TITLE	GROUND VALVE BANK ASS
PLATE NO.	C02.37



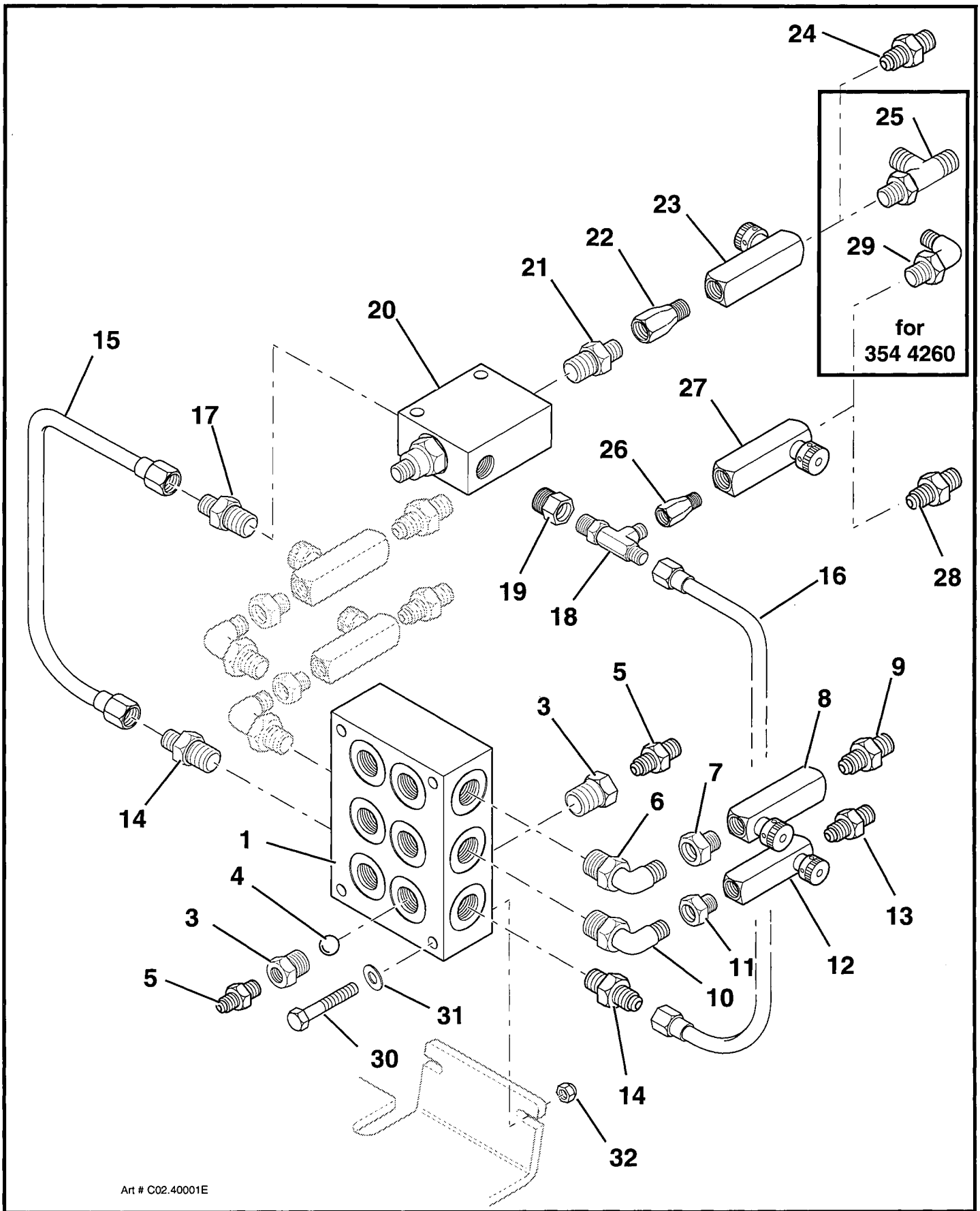
C02.20202E

TITLE	GROUND VALVE BANK ASS'Y., MP (ELECTRO-PROPORTIONAL, TYPE 2)		
SIMON AERIALS INC.	REV. 23 MAR., 1995	PART NO.	PLATE NO. C02.37

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SHUTTLE VALVE ASSEMBLY	1
	354 4690		(for model MP 60, MP 70, or MP 80)	
	354 4260		(for MP 70, special application)	
1	01-071300		BLOCK, SHUTTLE VALVE	1
2	01-071200		VALVE KIT, SHUTTLE	6
3			SEAT (with "O"-Ring)	2
4			BALL	1
5	06-039900		ADAPTER, "O"-RING TO 37° (6-8 F5OX-S)	12
6	06-044800		90° ELBOW, "O"-RING TO 37° (8 C5OX-S)	2
7	06-207800		ADAPTER, SWIVEL NUT (8 F65OX-S)	2
8	01-019000		VALVE, FLOW CONTROL (Needle valve) (#8 SAE Ports)	
			(Note direction of valve. Arrow points "in".)	2
9	06-040100		ADAPTER, "O"-RING TO 37° (8 F5OX-S)	2
10	06-044700		90° ELBOW, "O"-RING TO 37° (6-8 C5OX-S)	2
11	06-079000		CONNECTOR, SWIVEL NUT (6 F65OX-S)	2
12	01-018900		VALVE, FLOW CONTROL (Needle valve) (#6 SAE Ports)	
			(Note direction of valve. Arrow points "out".)	2
13	06-039800		ADAPTER, "O"-RING TO 37° (6 F5OX-S)	2
14	06-040100		ADAPTER, "O"-RING TO 37° (8 F5OX-S)	2
15	351 5610		TUBE ASSEMBLY (left hand)	1
16	351 5600		TUBE ASSEMBLY (right hand)	1
17	06-040300		ADAPTER, "O"-RING TO 37° (8-10 F5OX-S)	1
18	06-048600		RUN TEE, MALE "O"-RING TO 37° (8 R5OX-S)	1
19	06-090400		REDUCER/ EXPANDER (6-8 F5O G5-S)	1
20	01-082400		VALVE, PRESSURE REDUCING	
			(100 to 3,000 PSI, 20 GPM)	1
21	06-040300		ADAPTER, "O"-RING TO 37° (8-10 F5OX-S)	1
22	06-207800		ADAPTER, SWIVEL NUT (8 F65OX-S)	1
23	01-019000		VALVE, FLOW CONTROL (Needle valve) (#8 SAE Ports)	
			(Note direction of valve installation. Arrow points "out".)	1
24	06-040100		ADAPTER, "O"-RING TO 37° (8 F5OX-S)	1
25	06-048600		RUN TEE, MALE "O"-RING TO 37° (8 R5OX-S)	1
26	06-079000		CONNECTOR, SWIVEL NUT (6 F65OX-S)	1
27	01-019000		VALVE, FLOW CONTROL (Needle valve) (#8 SAE Ports)	
			(Note direction of valve installation. Arrow points "in".)	1
28	06-040100		ADAPTER, "O"-RING TO 37° (8 F5OX-S)	1
29	06-044800		90° ELBOW, "O"-RING TO 37° (8 C5OX-S)	1
30	07-003011		CAP SCREW, HEX HEAD (1/4"-20 x 2-1/2", Grade 5)	2
31	07-060014		WASHER, FLAT (1/4" SAE)	4
32	07-050014		NUT, STOP (1/4"-20, Grade 5)	2

TITLE SHUTTLE VALVE ASSEMBLY, MP 60, MP 70, MP 80 (FULL HYDRAULIC)



TITLE SHUTTLE VALVE ASSEMBLY, MP 60, MP 70, MP 80 (FULL HYDRAULIC)

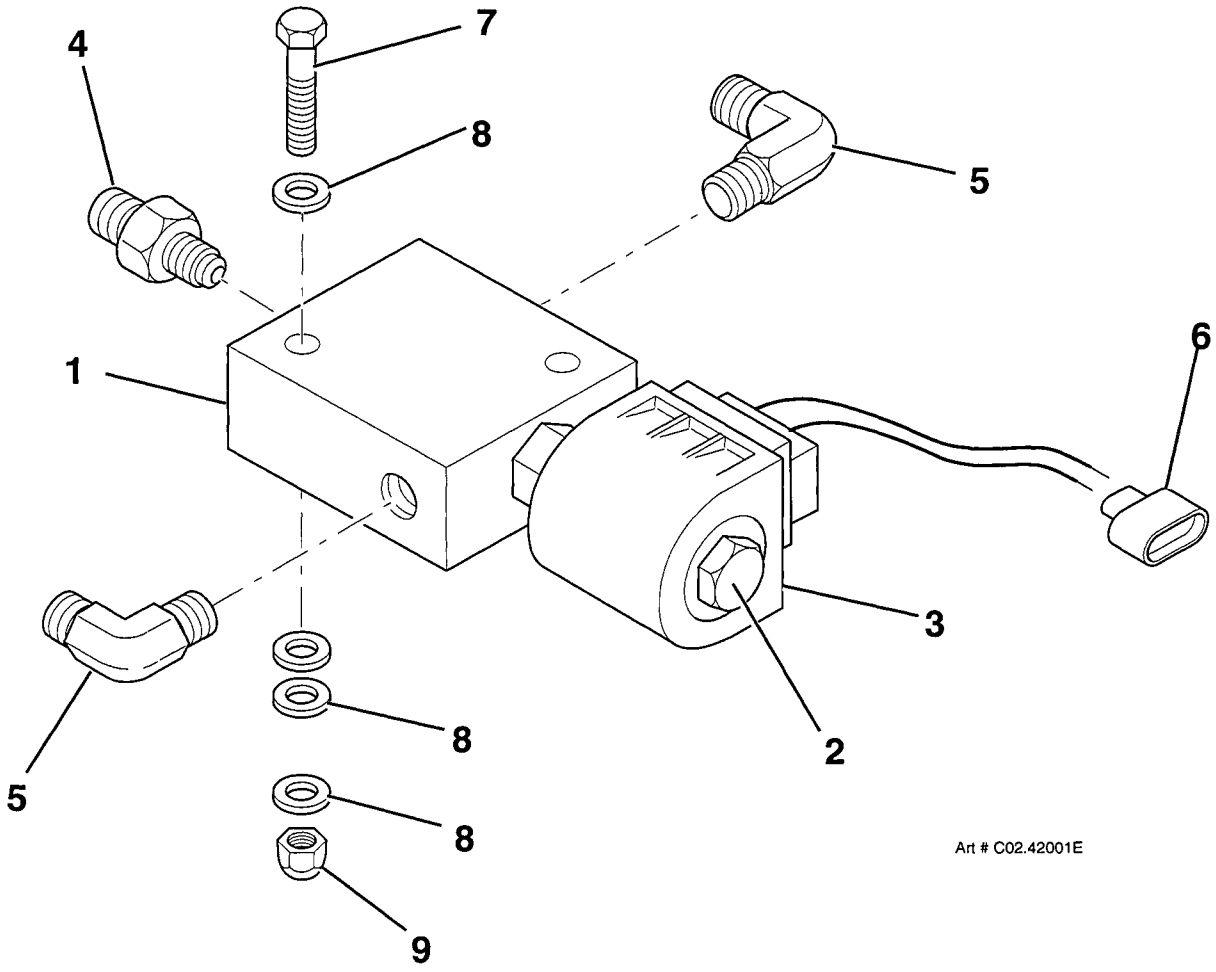
SIMON AERIALS INC. NEW 01 SEP., 1995	PART NO.	PLATE NO. C02.40

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-037100		VALVE, 3 WAY (Solenoid operated. With 12 Volt Coil.)	1
2	01-037101		SEAL KIT, 3 WAY VALVE	1
3			COIL, SOLENOID	1
	01-037198		12 Volt DC	
	01-037199		24 Volt DC	
4	06-000700		CONNECTOR, MALE 37° TO NPT (6 FTX-S)	1
5	06-003800		90° ELBOW, MALE 37° TO NPT (6 CTX-S)	2
6	03-092200		COUPLING, INSULATED (Male, blue, #14-16 AWG)	2
7	07-003010		CAP SCREW, HEX HEAD (1/4"-20 x 2-1/4", Grade 5)	2
8	07-062014		WASHER, FLAT (1/4")	8
9	07-050014		NUT, STOP (1/4"-20, Grade 5)	2

TITLE TWO-SPEED VALVE ASSEMBLY (MP SERIES, WITH TWO WHEEL DRIVE)

PLATE NO.			PART NO.
C02.42	**SIMON AERIALS INC.** NEW 06 SEP., 1995		354 4170



TITLE TWO-SPEED VALVE ASSEMBLY (MP SERIES, WITH TWO WHEEL DRIVE)

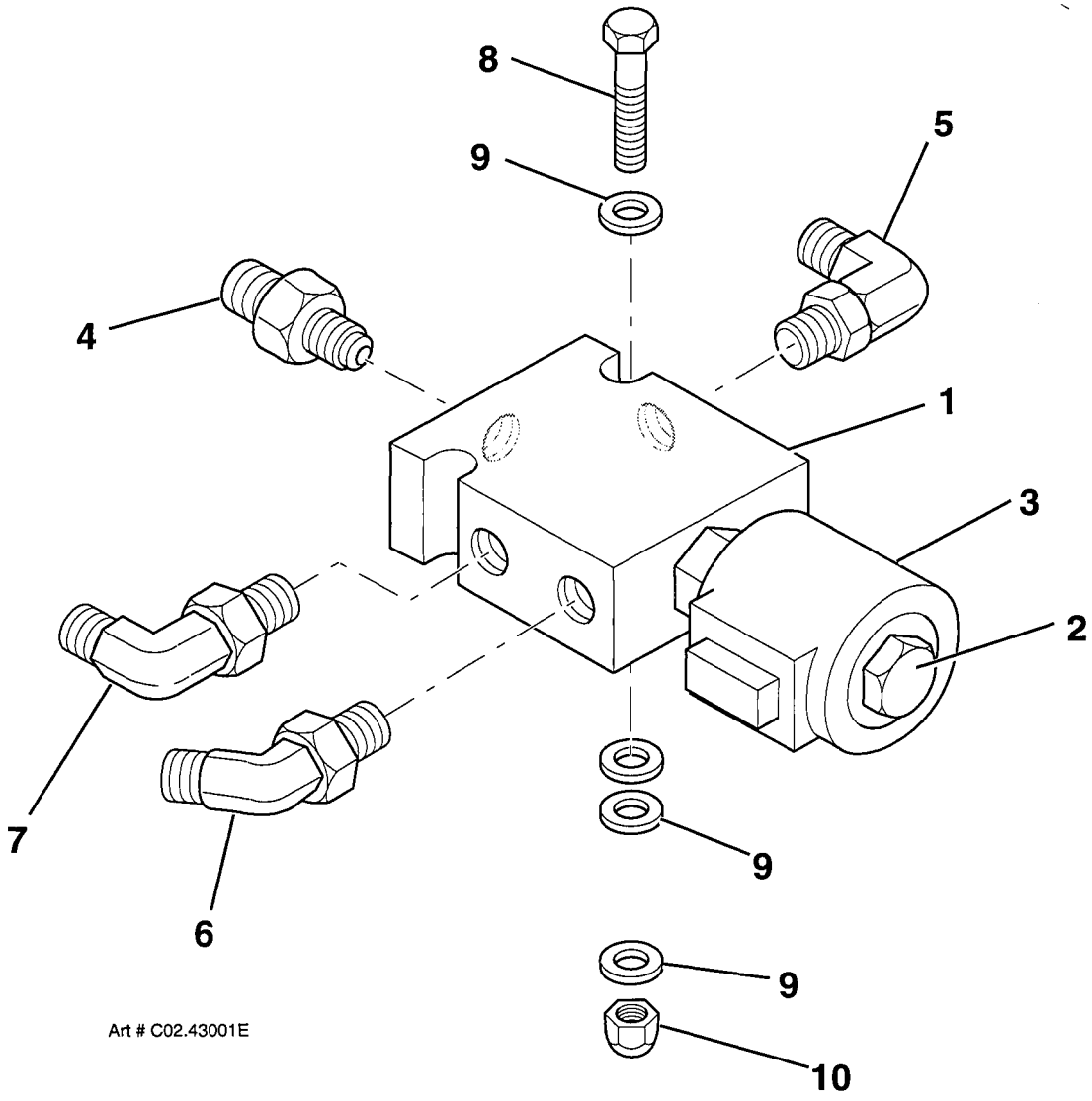
SIMON AERIALS INC.	NEW 06 SEP., 1995	PART NO. 354 4170	PLATE NO. C02.42

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-230400		VALVE, 4 WAY (2 position, solenoid operated. With 12 Volt Coil.)	1
2	Call Simon		SEAL KIT, 4 WAY VALVE	1
3			COIL, SOLENOID	1
	Call Simon		12 Volt DC	
	Call Simon		24 Volt DC	
4	06-039800		ADAPTER, "O"-RING TO 37° (6 F5OX-S)	1
5	06-044600		90° ELBOW, "O"-RING TO 37° (6 C5OX-S)	1
6	06-047000		45° ELBOW, "O"-RING TO 37° (6 V5OX-S)	1
7	06-044600		90° ELBOW, "O"-RING TO 37° (6 C5OX-S) **or . . .**	
	06-047000		45° ELBOW, "O"-RING TO 37° (6 V5OX-S)	1
8	07-003009		CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5)	2
9	07-062014		WASHER, FLAT (1/4")	8
10	07-050014		NUT, STOP (1/4"-20, Grade 5)	2

TITLE TWO-SPEED VALVE ASSEMBLY (MP SERIES, WITH FOUR WHEEL DRIVE)

PLATE NO.		PART NO.
C02.43	**SIMON AERIALS INC.** NEW 06 SEP., 1995	



Art # C02.43001E

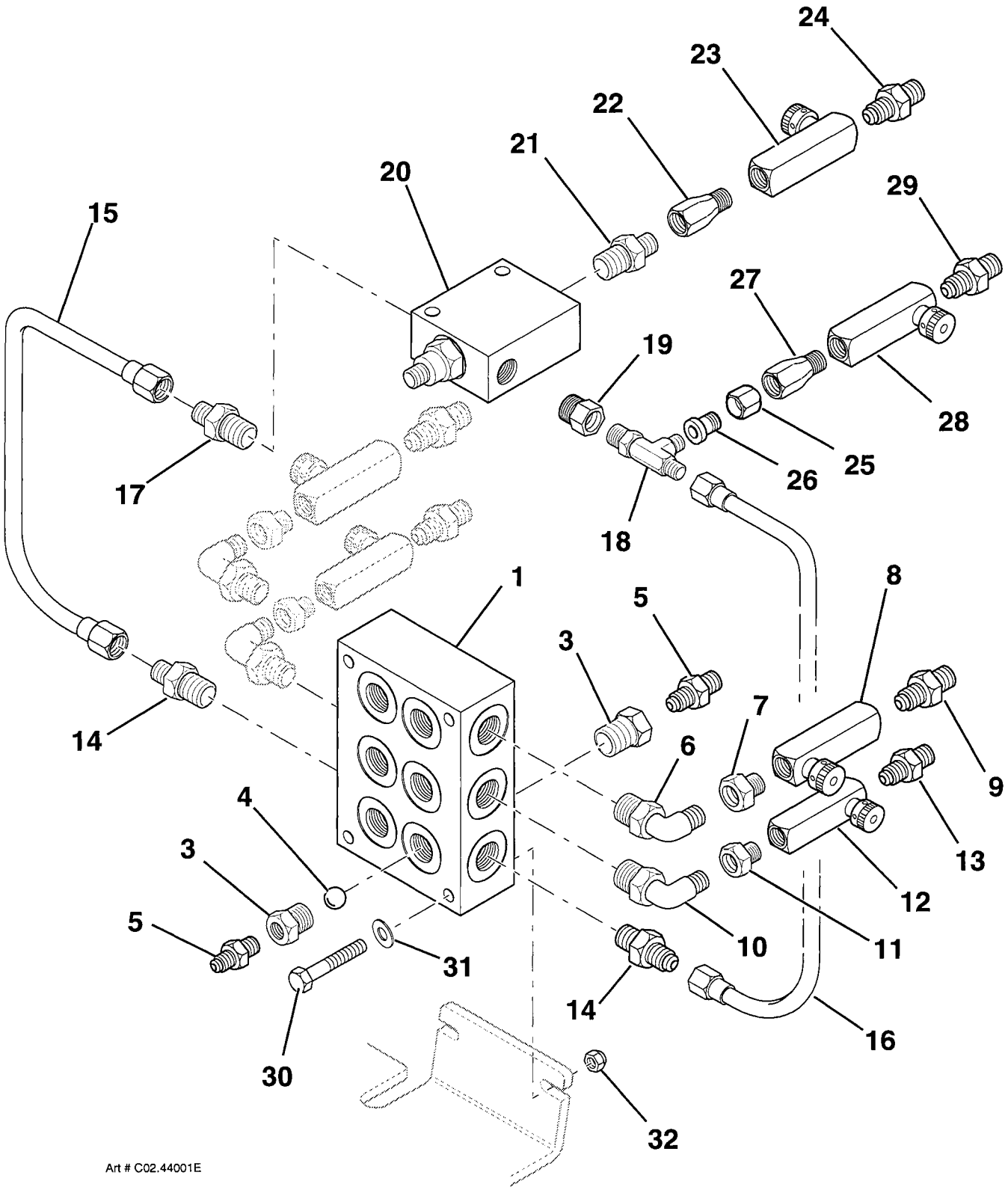
TITLE TWO-SPEED VALVE ASSEMBLY (MP SERIES, WITH FOUR WHEEL DRIVE)

SIMON AERIALS INC. NEW 06 SEP., 1995	PART NO.	PLATE NO. C02.43

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	354 4710		SHUTTLE VALVE ASSEMBLY (for model MP 40 or MP 50)	1
1	01-071300		BLOCK, SHUTTLE VALVE	1
2	01-071200		VALVE KIT, SHUTTLE	6
3			SEAT (with "O"-Ring)	2
4			BALL	1
5	06-039900		ADAPTER, "O"-RING TO 37° (6-8 F5OX-S)	12
6	06-044800		90° ELBOW, "O"-RING TO 37° (8 C5OX-S)	2
7	06-207800		ADAPTER, SWIVEL NUT (8 F65OX-S)	2
8	01-019000		VALVE, FLOW CONTROL (Needle valve) (#8 SAE Ports) (Note direction of valve. Arrow points "in".)	2
9	06-040100		ADAPTER, "O"-RING TO 37° (8 F5OX-S)	2
10	06-044700		90° ELBOW, "O"-RING TO 37° (6-8 C5OX-S)	2
11	06-079000		CONNECTOR, SWIVEL NUT (6 F65OX-S)	2
12	01-018900		VALVE, FLOW CONTROL (Needle valve) (#6 SAE Ports) (Note direction of valve. Arrow points "out".)	2
13	06-039800		ADAPTER, "O"-RING TO 37° (6 F5OX-S)	2
14	06-040100		ADAPTER, "O"-RING TO 37° (8 F5OX-S)	2
15	351 5610		TUBE ASSEMBLY (left hand)	1
16	351 5600		TUBE ASSEMBLY (right hand)	1
17	06-040100		ADAPTER, "O"-RING TO 37° (8 F5OX-S)	1
18	06-048600		RUN TEE, MALE "O"-RING TO 37° (8 R5OX-S)	1
19	06-090400		REDUCER/ EXPANDER (6-8 F5O G5-S)	1
20	01-012800		VALVE, PRESSURE REDUCING (100 to 3,000 PSI, 10 GPM)	1
21	06-039900		ADAPTER, "O"-RING TO 37° (6-8 F5OX-S)	1
22	06-079000		ADAPTER, SWIVEL NUT (6 F65OX-S)	1
23	01-018900		VALVE, FLOW CONTROL (Needle valve) (#6 SAE Ports) (Note direction of valve installation. Arrow points "out".)	1
24	06-039800		ADAPTER, "O"-RING TO 37° (6 F5OX-S)	1
25	06-057600		NUT, TUBE (8 BTX-S)	1
26	06-060300		REDUCER, TUBE END (8-6 TRTX-S)	1
27	06-079000		CONNECTOR, SWIVEL NUT (6 F65OX-S)	1
28	01-018900		VALVE, FLOW CONTROL (Needle valve) (#6 SAE Ports) (Note direction of valve installation. Arrow points "in".)	1
29	06-039800		ADAPTER, "O"-RING TO 37° (6 F5OX-S)	1
30	07-003011		CAP SCREW, HEX HEAD (1/4"-20 x 2-1/2", Grade 5)	2
31	07-060014		WASHER, FLAT (1/4" SAE)	4
32	07-050014		NUT, STOP (1/4"-20, Grade 5)	2

TITLE	SHUTTLE VALVE ASSEMBLY, MP (FULL HYDRAULIC)	
PLATE NO. C02.44	**SIMON AERIALS INC.** NEW 01 SEP., 1995	PART NO.

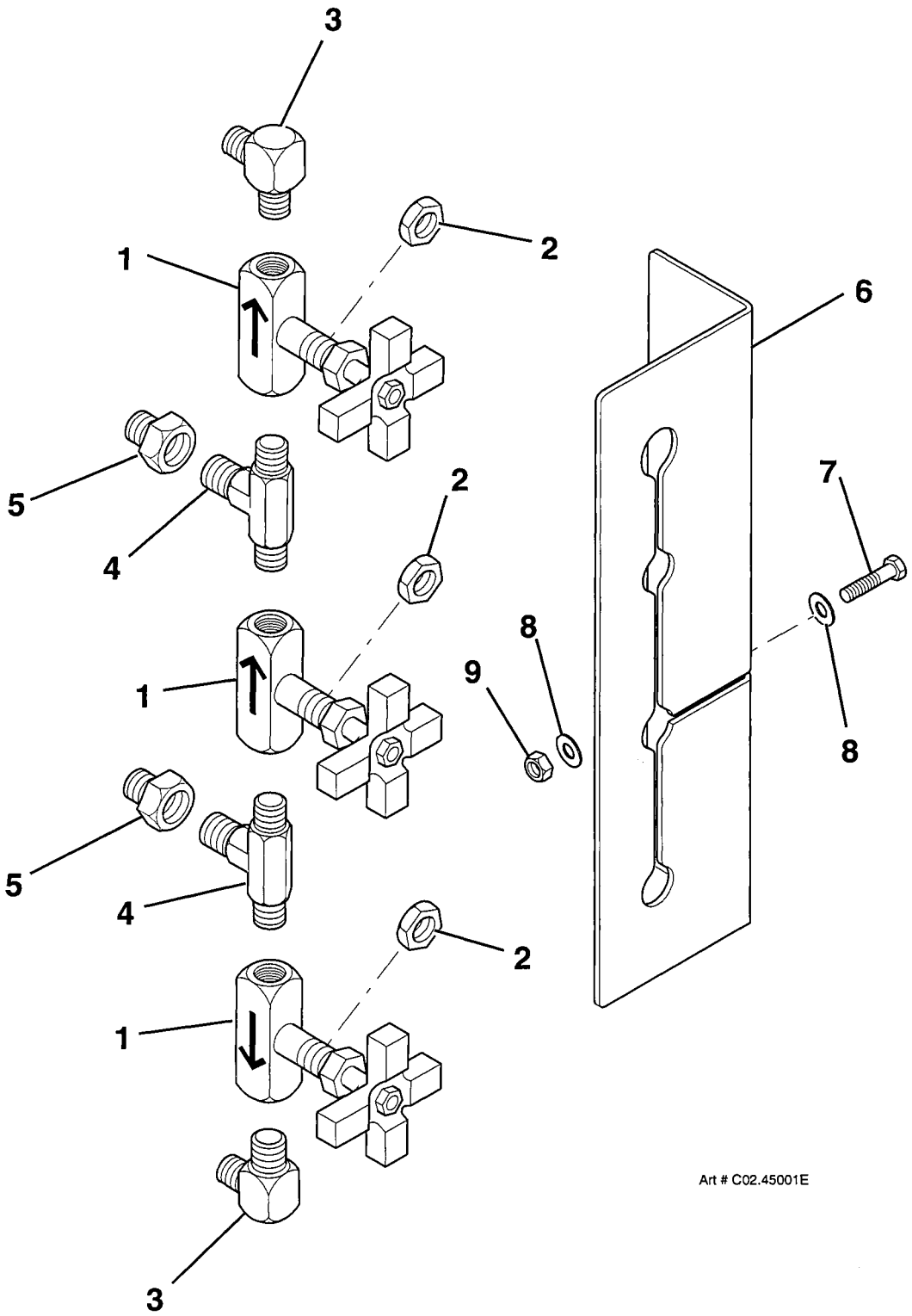


TITLE	SHUTTLE VALVE ASSEMBLY, MP (FULL HYDRAULIC)		
SIMON AERIALS INC.	NEW 01 SEP., 1995	PART NO.	PLATE NO. C02.44

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	354 4720		MANUAL DESCENT VALVE ASSEMBLY With option, MP 40 through MP 80	1
1	01-034800		VALVE, NEEDLE (1/4" NPT)	3
2	07-047121		NUT, HEX JAM (5/8"-18, Grade 5)	3
3	06-003800		90° ELBOW, MALE 37° TO NPT (6 CTX-S)	2
4	06-196500		TEE, MALE PIPE (4 RRS-S)	2
5	06-196600		CONNECTOR, FEMALE 37° TO NPT (6 GTX-S)	2
6	231 3070		BRACKET, VALVE MOUNTING	1
7	07-003005		CAP SCREW, HEX HEAD (1/4"-20 x 1", Grade 5)	2
8	07-062014		WASHER, FLAT (1/4")	4
9	07-050014		NUT, STOP (1/4"-20)	2
			The following item is not shown, but is required with manual descent valves. It mounts to the Boom Lift Cylinder:	
10	205 5644		FITTING, ORIFICED (4 C5OX-S with .032" orifice)	

TITLE	MANUAL DESCENT VALVE ASSEMBLY		
PLATE NO. C02.45	**SIMON AERIALS INC.**	NEW 05 SEP., 1995	PART NO.



Art # C02.45001E

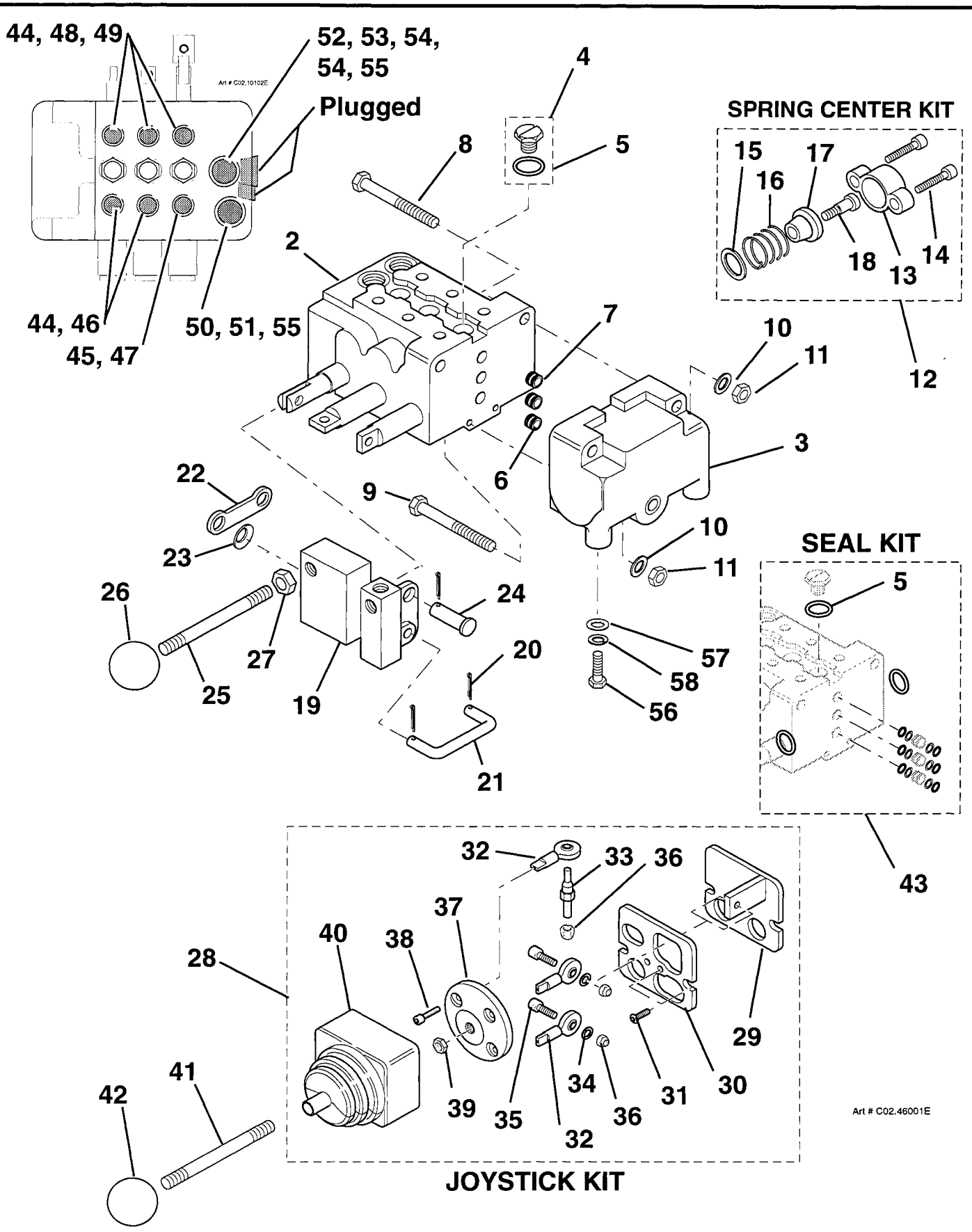
TITLE	MANUAL DESCENT VALVE ASSEMBLY		
SIMON AERIALS INC. NEW 05 SEP., 1995		PART NO.	PLATE NO. C02.45

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	354 4110		VALVE BANK ASSEMBLY, PLATFORM CONTROL for MP Series	1
1	219 9300		VALVE BANK, PLATFORM CONTROL (3 spool) (modified 01-216000)	1
2			INLET SECTION, 3 SPOOL	1
3			END PLATE	1
4			PLUG, HEX HEAD	3
5			"O"-RING (also part of Seal Kit, item 43)	1
6	01-098415		TUBE ASSEMBLY, FEEDER (3/4" O.D.)	2
7	01-098416		TUBE ASSEMBLY, FEEDER (11/16" O.D.)	1
8			BOLT, HEX HEAD (1/4"-20 x 2-1/4", Grade 5)	2
9			BOLT, HEX HEAD (1/4"-20 x 3", Grade 5)	2
10			WASHER, SPLIT LOCK (1/4")	4
11			NUT, HEX (1/4"-20, Grade 5)	4
12	01-216003		SPRING CENTER KIT	3
13			CAP, END	1
14			SCREW	2
15			WASHER	1
16			SPRING, RETURN	1
17			SPACER	1
18			BOLT, SHOULDER	1
19	219 9301		BLOCK, PIVOT	1
20	01-098403		PIN, CLEVIS	1
21	01-098413		"C"-HOOK	1
22	01-098414		LINK	1
23	01-098409		WASHER, SPRING	1
24	01-098412		PIN, COTTER	3
25	01-098503		ROD, HANDLE (5-3/4" [146 mm] long)	1
26	01-098407		KNOB, BALL (Plastic)	1
27	01-098408		NUT, JAM	1

TITLE PLATFORM VALVE BANK ASSEMBLY, 3 SPOOL (PLATE 1 OF 2)

PLATE NO. C02.46 | **SIMON AERIALS INC.** REV. 14 JAN., 1996 | PART NO.



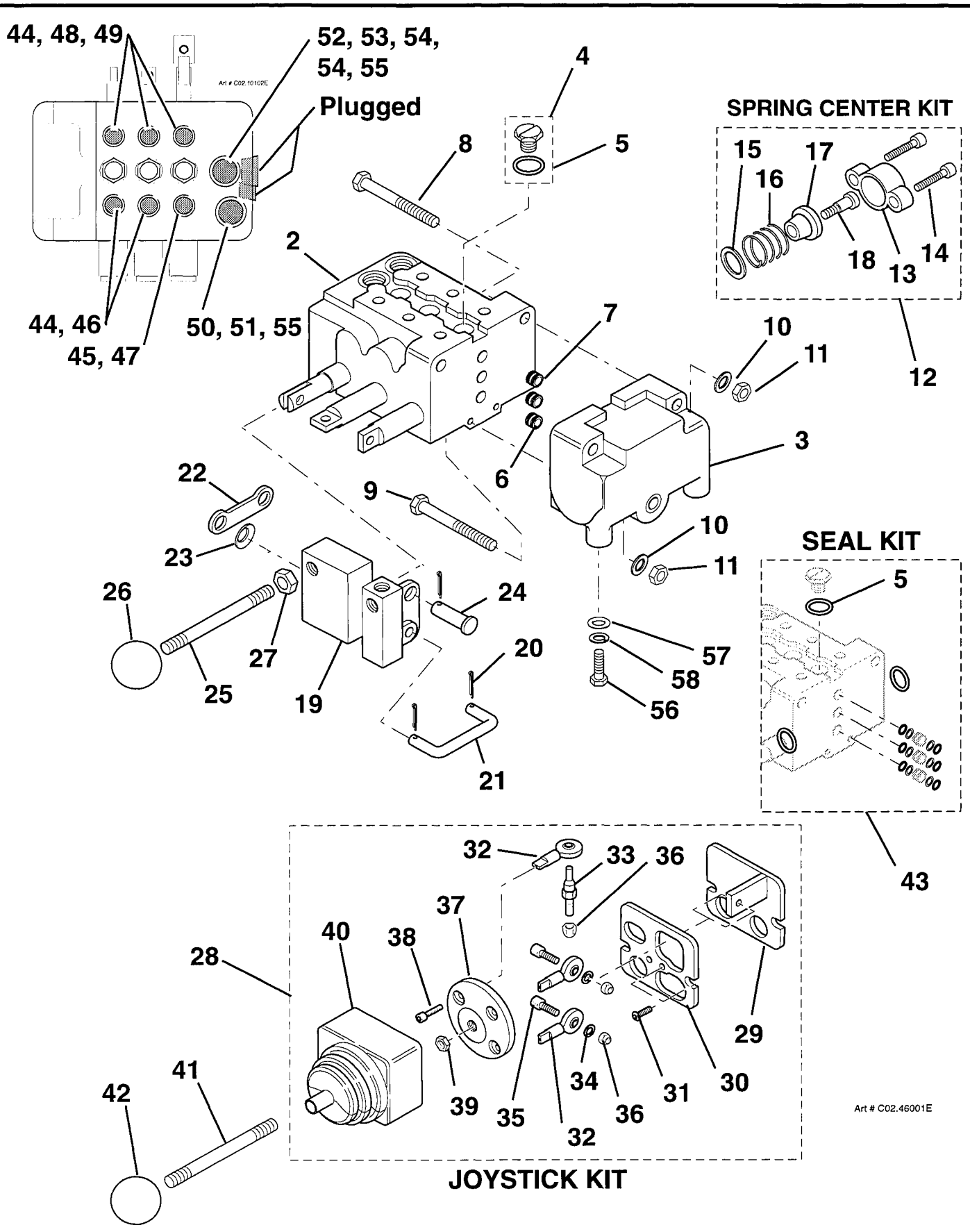
TITLE	PLATFORM VALVE BANK ASSEMBLY, 3 SPOOL (PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 14 JAN., 1996		PART NO.	PLATE NO. C02.46

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			VALVE BANK, PLATFORM CONTROL (continued)	
28	01-216002		JOYSTICK KIT	1
29			BRACKET ASSEMBLY	1
30			PLATE, BOOT RETAINING	1
31			SCREW, BUTTON HEAD (1/2" long)	2
32			ROD END	3
33			STUD, ACTUATOR	1
34			SPACER	2
35			CAP SCREW, SOCKET HEAD (1" long)	2
36			NUT, JAM	3
37			ADAPTER, HANDLE	1
38			CAP SCREW, SOCKET HEAD (3/4" long)	3
39			NUT, JAM	1
40	01-216004		BOOT, JOYSTICK	1
41	01-098503		ROD, HANDLE (5-3/4" [146 mm] long)	1
42	01-098407		KNOB, BALL (Plastic)	1
			The following items **are not** included with the Valve Bank (Item 1), but **are** included with the Valve Bank **Assembly**:	
43	01-216001		SEAL KIT (will service 3 Spools)	1
44	06-090600		REDUCER/ EXPANDER (8-6 F5OG5-S)	5
45	06-040100		ADAPTER, "O"-RING TO 37° (8 F5OX-S)	1
46	06-044600		90° ELBOW, "O"-RING TO 37° (6 C5OX-S)	2
47	06-051600		90° ELBOW, SWIVEL NUT (8 C6X-S)	1
48	06-043000		ADAPTER (LONG), "O"-RING TO 37° (6 FF5OX-S)	3
49	06-051500		90° ELBOW, SWIVEL NUT (6 C6X-S)	3
50	06-045000		90° ELBOW, "O"-RING TO 37° (8-10 C5OX-S)	1
51	06-054600		RUN TEE, 37° FEMALE SWIVEL NUT (8 R6X-S)	1
52	06-040300		ADAPTER, "O"-RING TO 37° (8-10 F5OX-S)	1
53	06-054600		RUN TEE, 37° FEMALE SWIVEL NUT (8 R6X-S)	1
54	06-051600		90° ELBOW, SWIVEL NUT (8 C6X-S)	2
55	06-053100		45° ELBOW, SWIVEL NUT (8 V6X-S)	2
56	07-003450		CAP SCREW, HEX HEAD (5/16"-24 x 3/4", Grade 5)	4
57	07-062015		WASHER, FLAT (5/16")	4
58	07-065015		WASHER, HELICAL LOCK (5/16")	4

TITLE PLATFORM VALVE BANK ASSEMBLY, 3 SPOOL (PLATE 2 OF 2)

PLATE NO.	SIMON AERIALS INC.	PART NO.
C02.46	REV. 14 JAN., 1996	

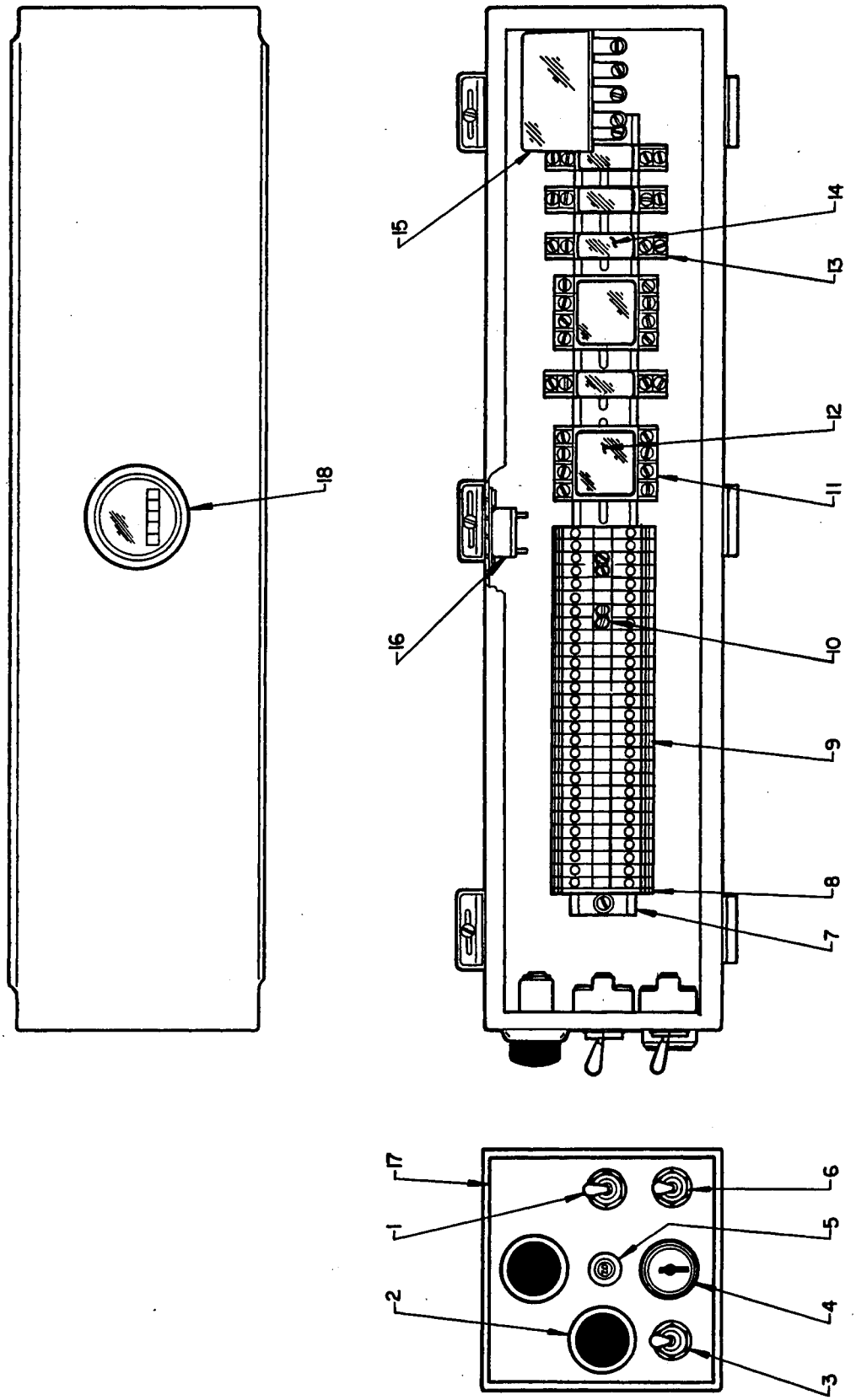


TITLE	PLATFORM VALVE BANK ASSEMBLY, 3 SPOOL (PLATE 2 OF 2)		
SIMON AERIALS INC.	REV. 14 JAN., 1996	PART NO.	PLATE NO. C02.46

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	03-020700		TOGGLE SWITCH, 4PDT (GROUND OVERRIDE)	1
2	03-020300		PUSH BUTTON (ENGINE START, EMG. POWER)	2
3	03-020400		TOGGLE SWITCH, SPST (IGNITION)	1
4	03-021000		KEYSWITCH	1
5	03-024000		CIRCUIT BREAKER, 20 AMP	1
6	03-020400		TOGGLE SWITCH, SPST (RPM)	1
7	03-051900		MOUNTING RAIL	14"
8	03-066100		END PLATE	1
9	03-066200		TERMINAL BLOCK	30
10	03-066300		JUMPER	2
11	03-051800		RELAY BASE	2
12	03-050100		CONTROL RELAY, DPDT	2
13	03-051600		RELAY BASE	4
14	03-051500		CONTROL RELAY	4
15	03-032100		CONTROL RELAY, TIME DELAY	1
16	03-024700		CIRCUIT BREAKER, 20 AMP	1
17	10-026000		DECAL	1
18	03-030500		HOURMETER	1

DESCRIPTION	PART NO.
GROUND CONTROL BOX (DIESEL ENGINE)	CAA-207265-0



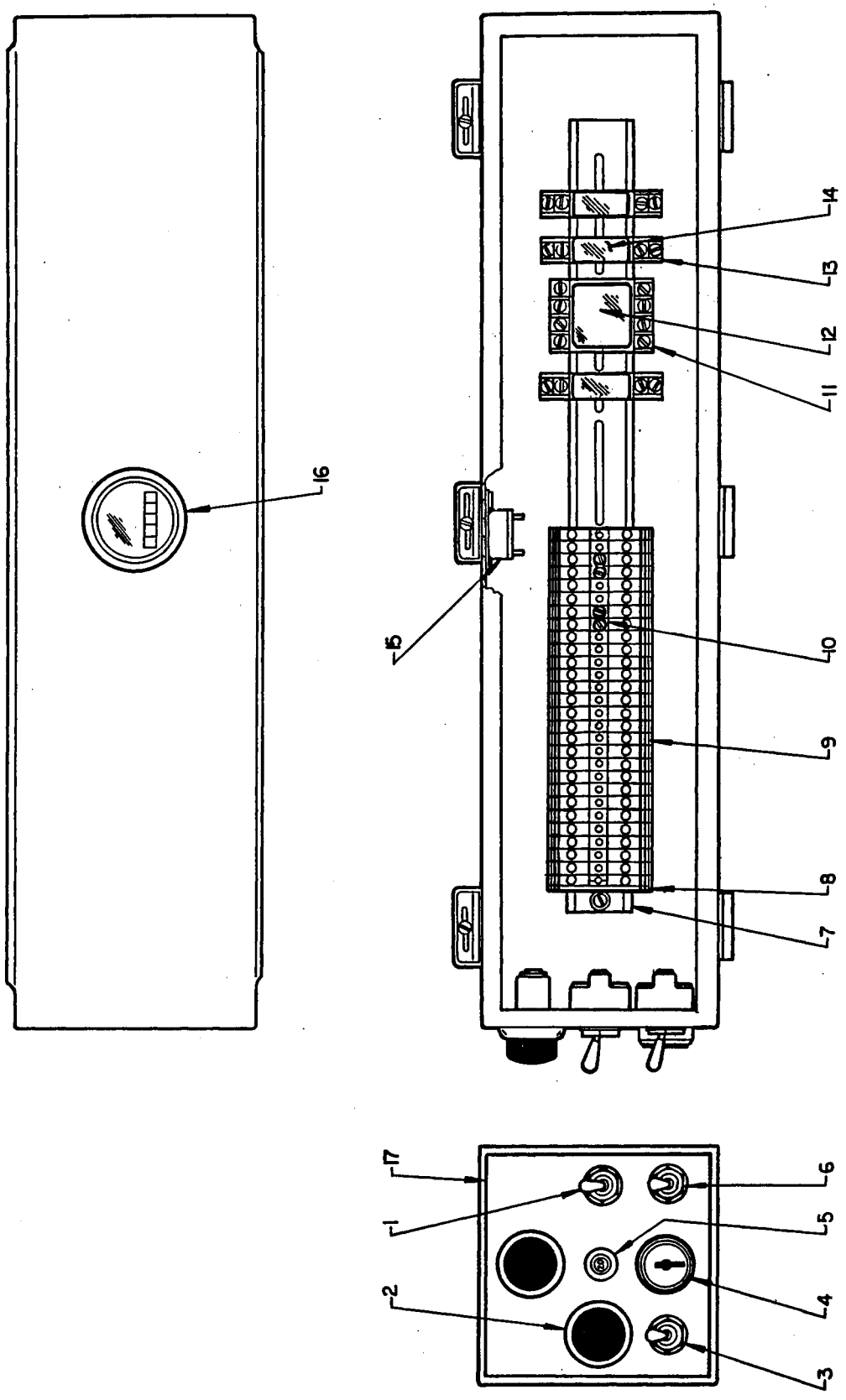
0385/1184

DESCRIPTION	PART NO.
GROUND CONTROL BOX (DIESEL ENGINE)	CAA-207265-0

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	03-020700		TOGGLE SWITCH, 4PDT (GROUND OVERRIDE)	1
2	03-020300		PUSH BUTTON (ENGINE START, EMG. POWER)	2
3	03-020400		TOGGLE SWITCH, SPST (IGNITION)	1
4	03-021000		KEYSWITCH	1
5	03-024000		CIRCUIT BREAKER, 20 AMP	1
6	03-020400		TOGGLE SWITCH, SPST (RPM)	1
7	03-051900		MOUNTING RAIL	14"
8	03-066100		END PLATE	1
9	03-066200		TERMINAL BLOCK	30
10	03-066300		JUMPER	2
11	03-051800		RELAY BASE	2
12	03-050100		CONTROL RELAY, DPDT	2
13	03-051600		RELAY BASE	4
14	03-051500		CONTROL RELAY	4
15	03-024700		CIRCUIT BREAKER, 20 AMP	1
16	03-030500		HOURMETER	1
17	10-026000		DECAL	1

DESCRIPTION	PART NO.
GROUND CONTROL BOX (GAS ENGINE)	CAA-208463-9



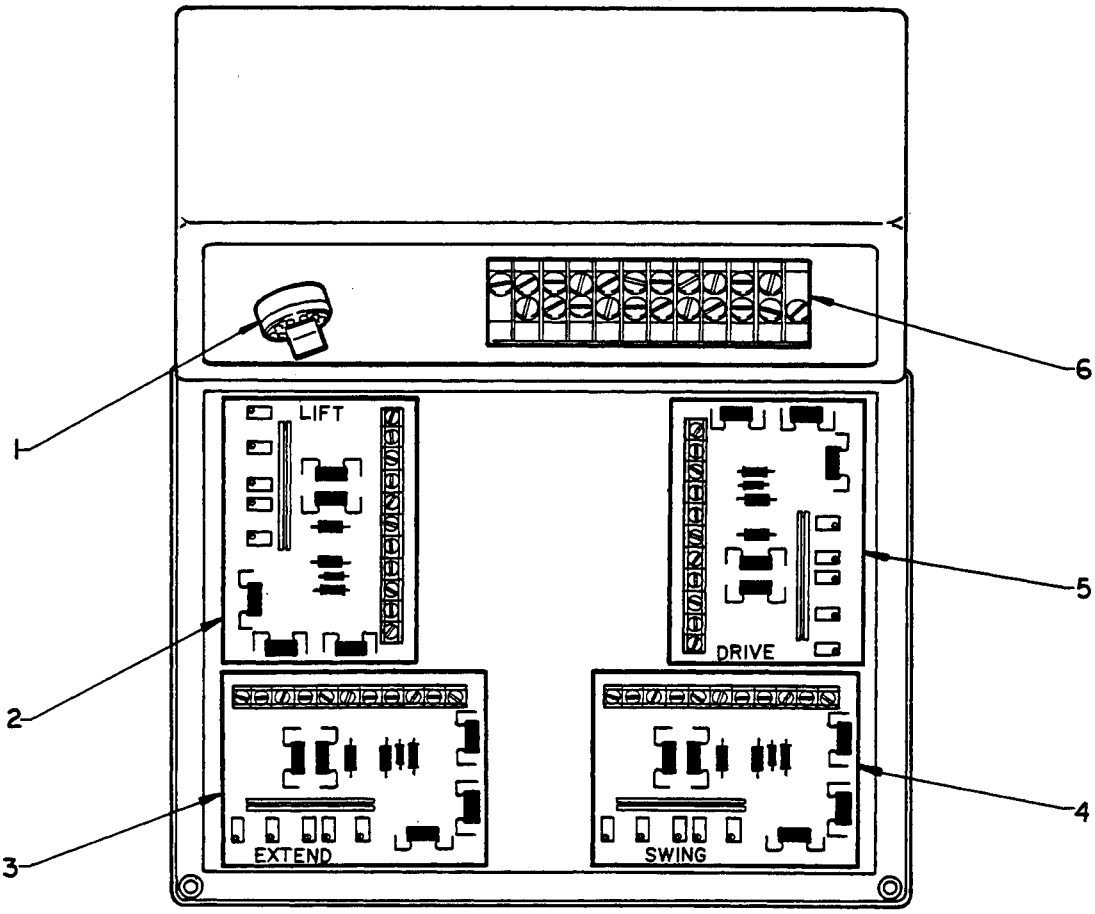
0385/1184

DESCRIPTION	PART NO.
GROUND CONTROL BOX (GAS ENGINE)	CAA-208463-9

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	03-403100		POTENTIOMETER	1
2	03-027201		CONTROL CARD, LIFT	1
3	03-027201		CONTROL CARD, EXTEND	1
4	03-027201		CONTROL CARD, SWING	1
5	03-027201		CONTROL CARD, VEHICLE DRIVE	1
6	03-068000		TERMINAL STRIP	1

DESCRIPTION	PART NO.
GROUND CONTROL BOX (PROPORTIONAL CONTROLS)	CAA-208493-4



0885/0785

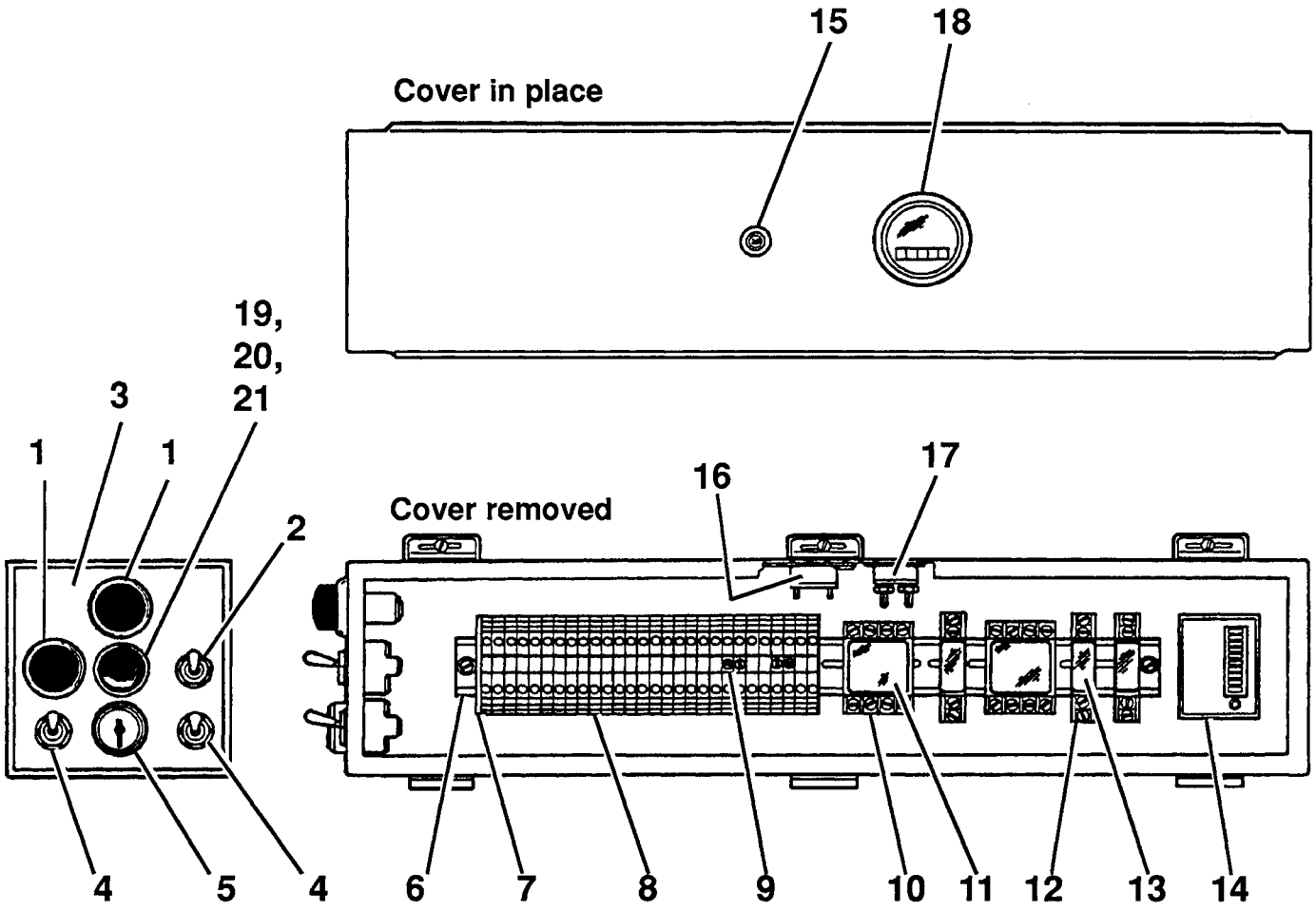
DESCRIPTION	PART NO.
GROUND CONTROL BOX (PROPROTIONAL CONTROLS)	CAA-208493-4

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-020300		BUTTON, PUSH (Engine start)	1
	03-020300		BUTTON, PUSH (Emergency power)	1
2	03-020700		SWITCH, TOGGLE (4 pole, Double throw) (Ground override)	1
3	10-026000		DECAL	1
4	03-020400		SWITCH, TOGGLE (Single pole, Single throw) (Ignition)	1
	03-020400		SWITCH, TOGGLE (Single pole, Single throw) (R.P.M.)	1
5	03-021000		SWITCH, KEY OPERATED	1
6	03-051700		RAIL, MOUNTING (14" long)	1
7	03-066100		PLATE, END	1
8	03-066200		BLOCK, TERMINAL	30
9	03-066300		JUMPER, LINE	2
10	03-051800		BASE, RELAY	2
11	03-050100		RELAY, CONTROL (Double pole, Double throw)	2
12	03-051600		BASE, RELAY	3
13	03-051500		RELAY, CONTROL (Single pole, Single throw)	3
14	03-052800		RELAY, CONTROL (Time delay)	1
15	03-024000		BREAKER, CIRCUIT (20 Amp)	1
16	03-024700		BREAKER, CIRCUIT (20 Amp)	1
17	03-024100		BREAKER, CIRCUIT (10 Amp)	1
18	03-030500		METER, HOUR	1
19	03-402500		SWITCH, CHOKE (Double pole, Single throw)	1
20	03-402600		BEZEL, CHOKE SWITCH OPERATOR	1
21	03-402800		OPERATOR, CHOKE SWITCH	1

TITLE GROUND CONTROL BOX ASSEMBLY

PLATE NO. C03.18 | **SIMON AERIALS INC.** REV. 10/01/90 | PART NO.



TITLE	GROUND CONTROL BOX ASSEMBLY		
SIMON AERIALS INC. REV. 10/01/90		PART NO.	PLATE NO. C03.18

PARTS LIST

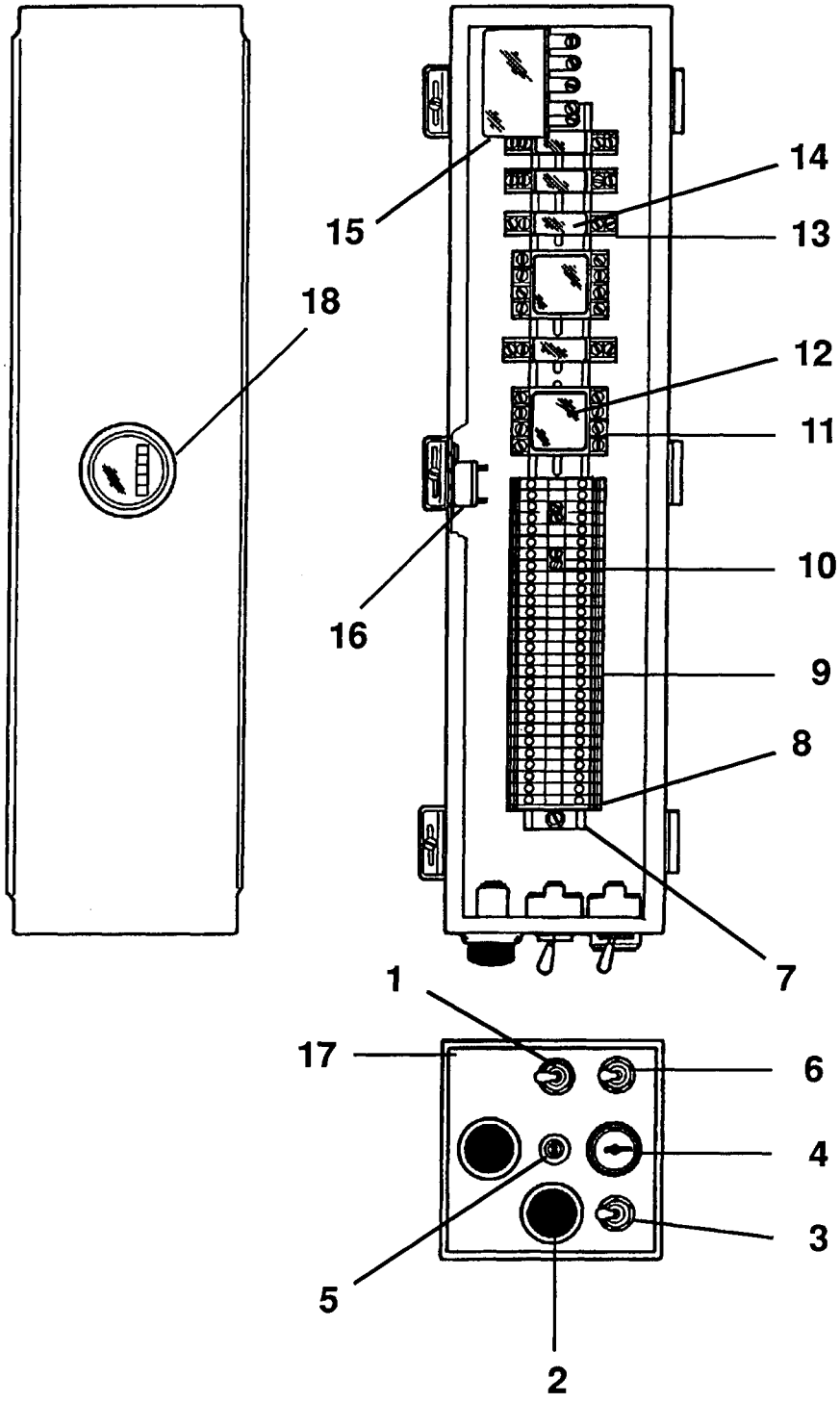
ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
1	03-020700		SWITCH, TOGGLE, 4PDT (ground override)	1
2	03-020300		SWITCH, PUSH BUTTON (engine start, emergency power)	2
3	03-020400		SWITCH, TOGGLE, SPST (ignition)	1
4	03-021000		KEYSWITCH	1
5	03-024000		BREAKER, CIRCUIT (20 A)	1
6	03-020400		SWITCH, TOGGLE, SPST (rpm)	1
7	03-051700		RAIL, MOUNTING (14")	1
8	03-066100		PLATE, END	1
9	03-066200		BLOCK, TERMINAL	30
10	03-066300		JUMPER, LINE	2
11	03-051800		BASE, RELAY	2
12	03-050100		RELAY, CONTROL, DPDT	2
13	03-051600		BASE, RELAY	4
14	03-051500		RELAY, CONTROL, SPST	4
15	03-024700		BREAKER, CIRCUIT (20 A)	1
16	03-472900		HOUR METER	1
17	10-026000		DECAL	1

TITLE: GROUND CONTROL BOX

PLATE NO. C03.22

SIMON AERIALS INC. ORIGIN 06/05/90

PART NO.



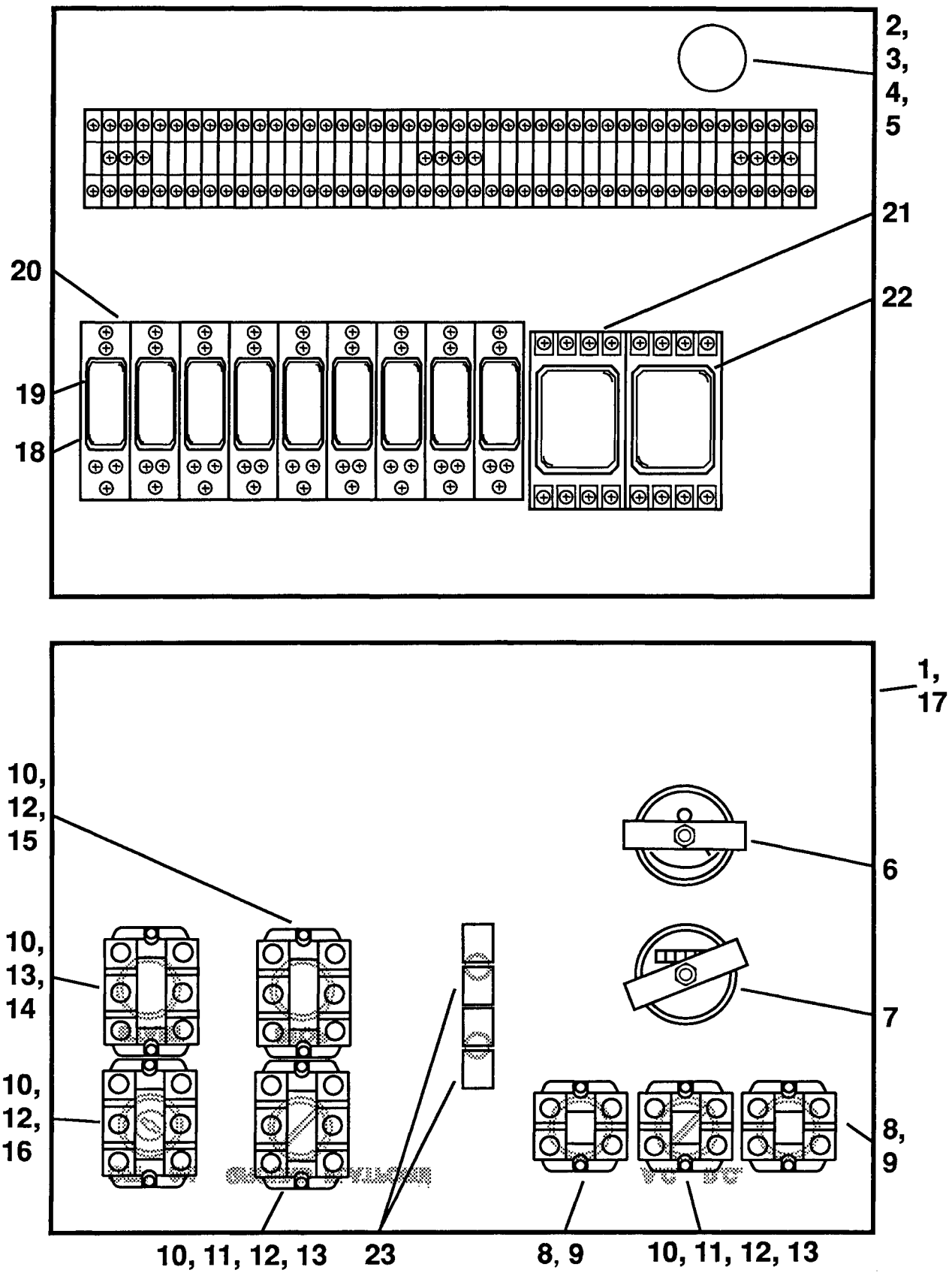
TITLE	GROUND CONTROL BOX		
SIMON AERIALS INC. ORIGIN 06/05/90		PART NO.	PLATE NO. C03.22

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2165150		CABINET, ELECTRICAL (14" X 12" X 6")	1
2	03-450100		RECEPTACLE, 23 CONDUCTOR	1
3	03-450300		WASHER	1
4	03-450200		NUT	1
5	03-450900		TERMINAL, PIN	23
6	03-409300		INDICATOR, BATTERY	1
7	03-030500		METER, HOUR	1
8	03-409400		BASE, PILOT LIGHT	2
9	03-410300		LENS, PILOT LIGHT (blue)	2
10	03-454900		BASE	5
11	03-410000		ACTUATOR, TWO POSITION	2
12	03-437300		CONTACTOR, NORMALLY CLOSED	6
13	03-437200		CONTACTOR, NORMALLY OPEN	7
14	03-471800		BUTTON, PUSH (green)	1
15	03-471900		BUTTON, PUSH (red)	1
16	03-436700		ACTUATOR, KEY	1
17	2165730		DECAL	1
18	2167660		RAIL (11-1/2" long)	1
19	03-457800		RELAY	9
20	03-051600		BASE, RELAY	9
21	03-457700		RELAY	2
22	03-037500		BASE, RELAY	2
23	03-471700		CIRCUIT BREAKER (15 A)	2

TITLE GROUND CONTROL CONSOLE ASSEMBLY

PLATE NO. C03.23 | **SIMON AERIALS INC.** NEW 11/30/90 | PART NO. 2166340



TITLE	GROUND CONTROL CONSOLE ASSEMBLY		
SIMON AERIALS INC. NEW 11/30/90	PART NO. 2166340	PLATE NO. C03.23	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1				
2	03-020400		SWITCH, TOGGLE (2 position, maintained contact, single pole, single throw)	2
3	03-020600		SWITCH, TOGGLE (3 position, intermittent contact, double pole, double throw)	4
4	03-020300		BUTTON, PUSH	2
5	03-024000		BREAKER, CIRCUIT (20 Amp @ 120 Volt DC)	1
6	03-021000		SWITCH, IGNITION	1
7	03-030400		AMMETER (50 Amp)	1
8	03-021000		GAUGE, OIL PRESSURE	1
9	03-030500		METER, HOUR (12 Volt DC)	1
10	03-020700		SWITCH, TOGGLE (Platform/ Ground select)	1
11	03-030101		PANEL, GENERATOR CONTROL (AC control box)	1
			Note: The following items are not shown.	
12	03-050000		RELAY, SOLENOID OVERLOAD	1
13	03-050200		RELAY, HORN	1
14	03-030000		HORN	1
15	03-050400		RELAY	1
16	03-050100		RELAY, DOUBLE POLE (12 Volt DC)	2
17	03-050300		SOCKET, RELAY	2
18	03-051000		RESISTOR, ADJUSTABLE	5

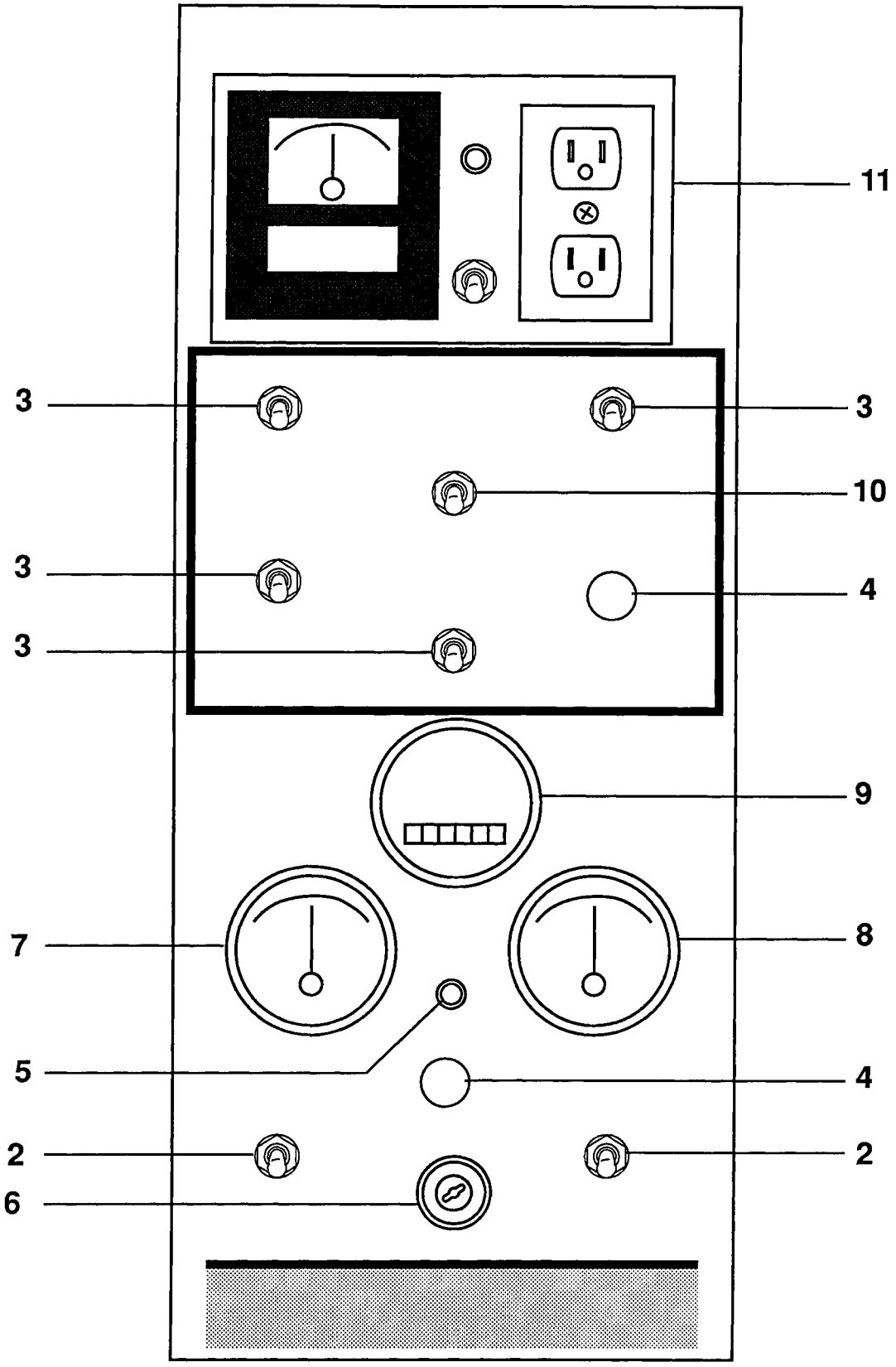
TITLE: GROUND CONTROL BOX

PLATE NO. C03.24

SIMON AERIALS INC.

NEW 11/02/90

PART NO.



TITLE	GROUND CONTROL BOX		
SIMON AERIALS INC. NEW 11/02/90		PART NO.	PLATE NO. C03.24

PARTS LIST

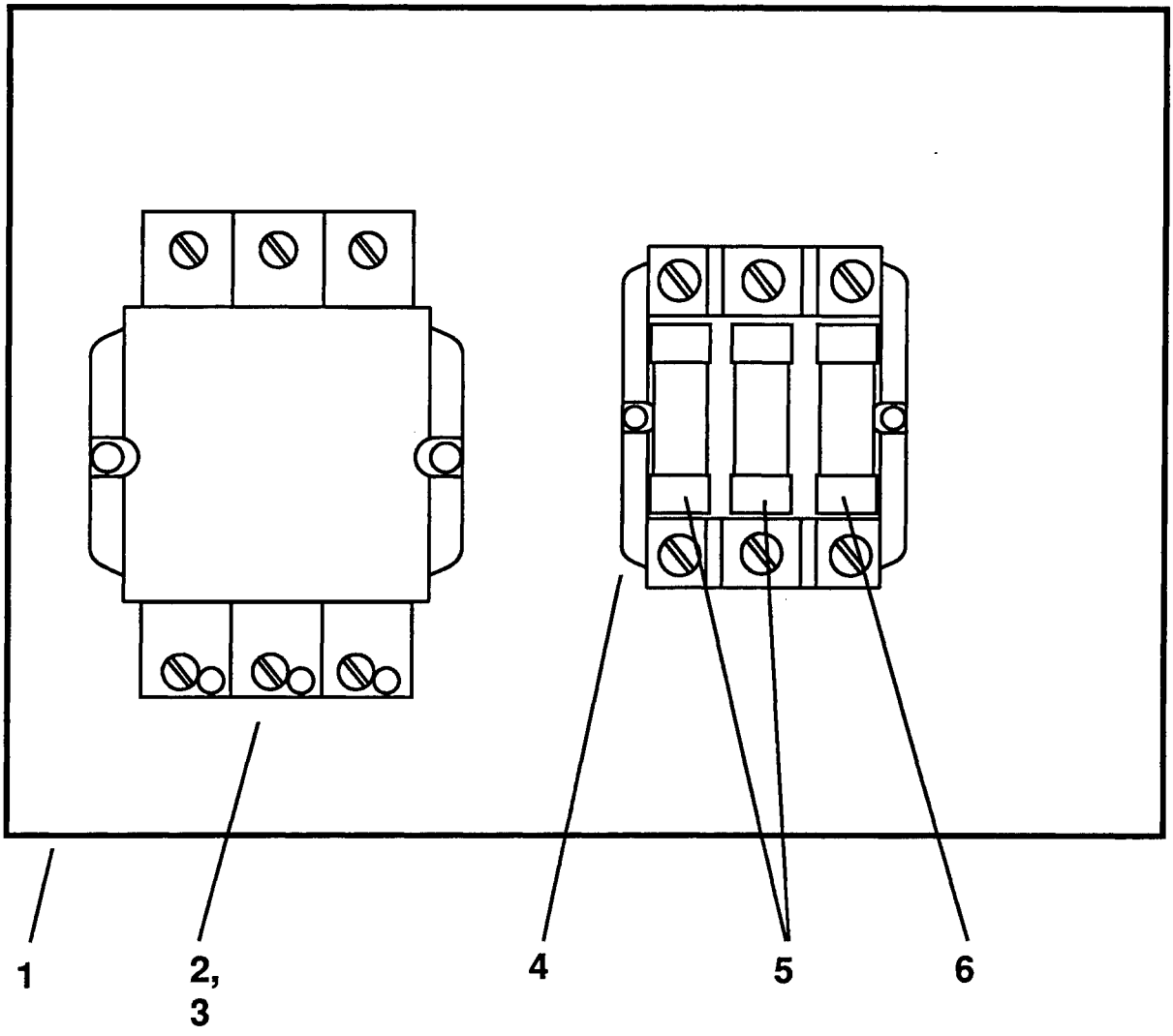
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	10-093300		BOX, JUNCTION (14" x 16" x 6")	1
2	03-470300		STARTER, MOTOR (AC)	1
3	03-470400		HEATER (G30T47A)	3
4	03-470900		TRANSFORMER, CONTROL (460-120V)	1
5	03-470500		FUSE, 1 A (Buss FNQ-R-1)	2
6	03-470600		FUSE, 2-1/2 A (Buss MDL-2-1/2)	1

TITLE: MOTOR CONTROL BOX (AC)

PLATE NO. C03.25

SIMON AERIALS INC. NEW 11/30/90

PART NO.



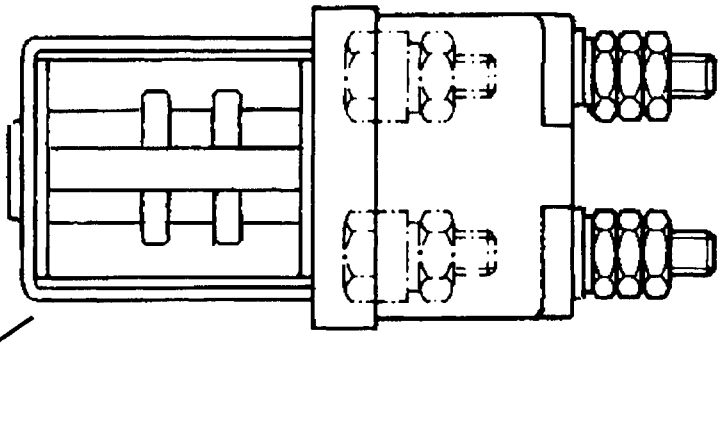
TITLE	MOTOR CONTROL BOX (AC)		
SIMON AERIALS INC. NEW 11/30/90		PART NO.	PLATE NO. C03.25

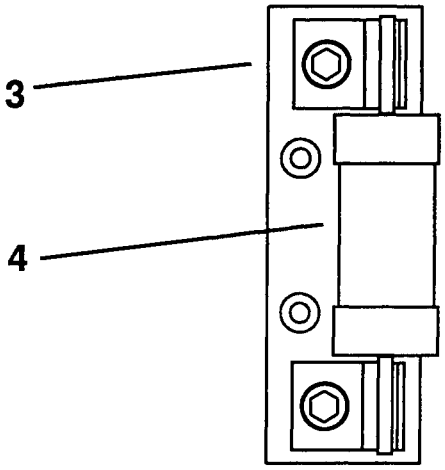
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2166220		BOX, MOTOR CONTROL (DC) (not shown)	1
2	03-415800		CONTACTOR, BY PASS (300 A)	1
3	03-470700		HOLDER, FUSE	1
4	03-470800		FUSE, 250 A (Buss FRN R-250)	1

TITLE: MOTOR CONTROL BOX (DC)

PLATE NO. C03.26 | **SIMON AERIALS INC.** NEW 11/30/90 | PART NO.





TITLE

MOTOR CONTROL BOX (DC)

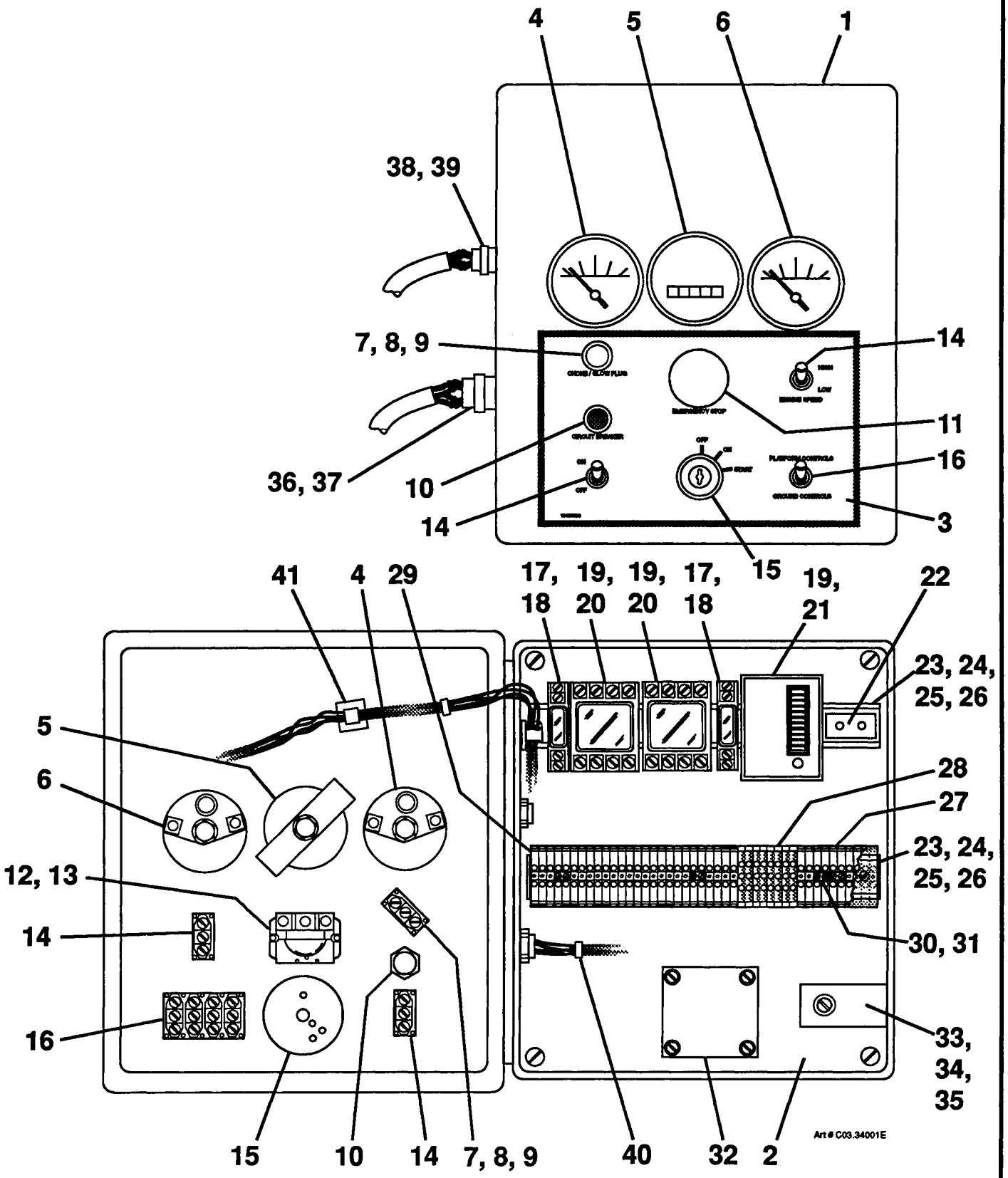
SIMON AERIALS INC. NEW 11/30/90	PART NO.	PLATE NO. C03.26

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			This control box assembly for MP 80 and smaller with "Type 2" Electro-Proportional control system.	
1	2196520		BOX, GROUND CONTROL (Drilled. Includes cover) [12" (305 mm) x 14" (356 mm) x 6" (152 mm) deep]	1
2	2196530		SUBPLATE, MOUNTING	1
3	10-137500		DECAL, GROUND CONTROL	1
4	03-492200		METER, VOLTAGE	1
5	03-492300		METER, HOUR	1
6	03-492400		GAUGE, ENGINE OIL PRESSURE	1
7	03-402500		SWITCH, PUSH BUTTON (Choke/ Glow plug) (10 Amp, 250 Volt AC)	1
8	03-402600		BEZEL, PUSH BUTTON SWITCH	1
9	03-402800		BUTTON, PUSH (Blue)	1
10	03-024000		BREAKER, CIRCUIT (20 Amp @ 120 Volt AC, push to reset)	1
11	03-409800		BUTTON, EMERGENCY STOP	1
12	03-454900		BASE, SWITCH MOUNTING	1
13	03-437300		BLOCK, CONTACT (normally closed)	1
14	03-020400		SWITCH, TOGGLE ("Engine speed" and "Ignition On/ Off") (2 position, maintained contact, single pole, single throw)	2
15	03-489800		SWITCH, KEY OPERATED (3 position. Includes 2 keys)	1
16	03-020700		SWITCH, TOGGLE (Ground/ Platform selector) (2 position, 4 contact, 2 pole, single throw)	1
17	03-051600		SOCKET, RELAY (Single pole, snap mount)	2
18	03-051500		RELAY, PLUG IN (12 Volt DC, single pole)	2
19	03-037500		SOCKET, RELAY (Double pole, snap mount)	3
20	03-050100		RELAY, PLUG IN (12 Volt DC, double pole)	2
21	03-052800		RELAY, TIME DELAY (.1 to 102.3 second, 12 Volt DC)	1
22	03-024700		BREAKER, CIRCUIT (20 Amp, thermal reset)	1
23	03-051700		RAIL, TERMINAL [1M (39.37") long section] [11" (283 mm) long piece needed for this application]	2
24	07-011335		MACHINE SCREW, PAN HEAD (#6-32 x 1/2")	4
25	07-050007		NUT, HEX LOCK (#6-32, Grade 5)	4
26	07-062009		WASHER, FLAT (#8)	4
27	03-066200		BLOCK, TERMINAL (25 Amp, for #12 Gauge wire)	36
28	03-039100		BLOCK, TERMINAL (Grounding, for #12 Gauge wire)	8
29	03-066100		PLATE, TERMINAL BLOCK END	1
30	03-066300		JUMPER, LINE (Double)	4
31	03-067500		JUMPER, LINE (Triple)	1

TITLE GROUND CONTROL BOX ASSEMBLY (PLATE 1 OF 2)

PLATE NO. C03.34 | **SIMON AERIALS INC.** NEW 28 APR., 1992 | PART NO.



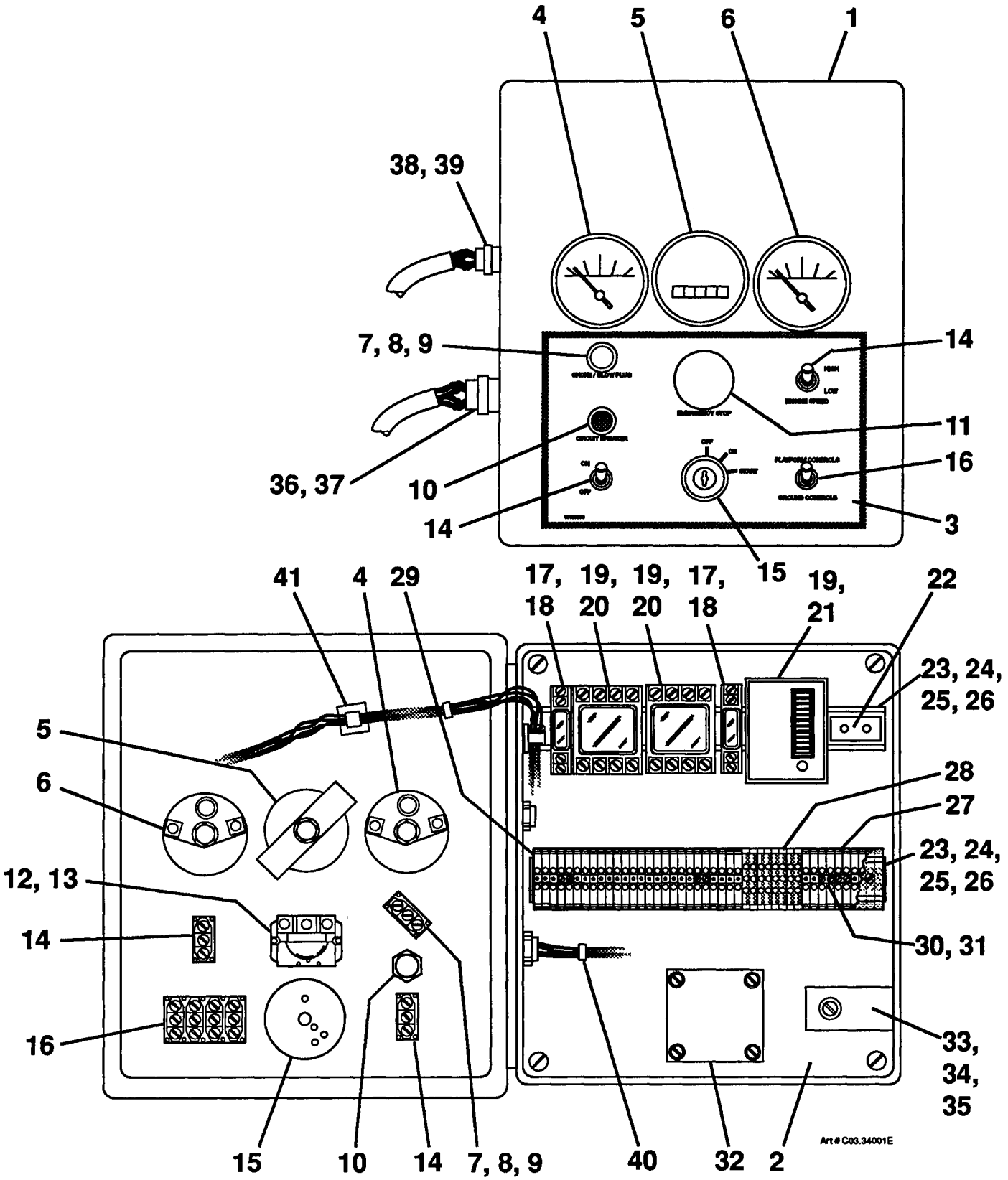
TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 1 OF 2)		
SIMON AERIALS INC.	NEW 28 APR., 1992	PART NO.	PLATE NO. C03.34

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
32	03-481600		MODULE, CONTROL (Low speed drive, nameplate marked "MC 31000036")	1
33	03-027231		POTENTIOMETER (10 K Ohm)	1
34	03-044900		LOCK, SHAFT	1
35	2196540		BRACKET, POTENTIOMETER MOUNTING	1
36	03-063200		GRIP, CORD (3/4")	3
37	03-055600		NUT, CONDUIT (3/4")	3
38	03-041000		GRIP, CORD (1/2")	3
39	03-055500		NUT, CONDUIT (1/2")	3
40	03-064000		TIE, CABLE	A.R.
41	03-064100		MOUNT, CABLE TIE (Adhesive backed)	A.R.
			The following hardware items are used in making electrical connections in ground control boxes:	
42	03-092200		COUPLING, INSULATED (Male, blue nylon, #14-16 AWG)	A.R.
43	03-092300		COUPLING, INSULATED (Female, blue nylon, #14-16 AWG)	A.R.
44	03-096000		TERMINAL, END (Blue, "piggyback") (#14-16 AWG)	A.R.
45	03-094600		TERMINAL, RING (Blue, #14-16 AWG, #10 stud)	A.R.
46	03-091200		TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud)	A.R.
47	03-098400		TERMINAL, END (Blue, #14-16 AWG)	A.R.
48	03-099000		CONNECTOR, BUTT (Blue, #14-16 AWG)	A.R.
49	03-098100		TERMINAL, INSULATED (Slip-on, yellow, #10-12 AWG)	A.R.
50	03-095500		TERMINAL, RING (Yellow, #10 AWG, #6 stud)	A.R.
51	03-095700		TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud)	A.R.
52	03-099100		CONNECTOR, BUTT (Yellow, #10-12 AWG)	A.R.
53	03-095900		TERMINAL, RING (Red, #8 stud)	A.R.
54	03-066800		LOOM, WIRE (1/2")	A.R.
55	03-066900		LOOM, WIRE (3/4")	A.R.
56	03-405200		TUBING, HEAT SHRINK (Clear, 3/16")	A.R.
57	03-403800		DIODE	A.R.

TITLE GROUND CONTROL BOX ASSEMBLY (PLATE 2 OF 2)

PLATE NO. C03.34 | **SIMON AERIALS INC.** NEW 28 APR., 1992 | PART NO.



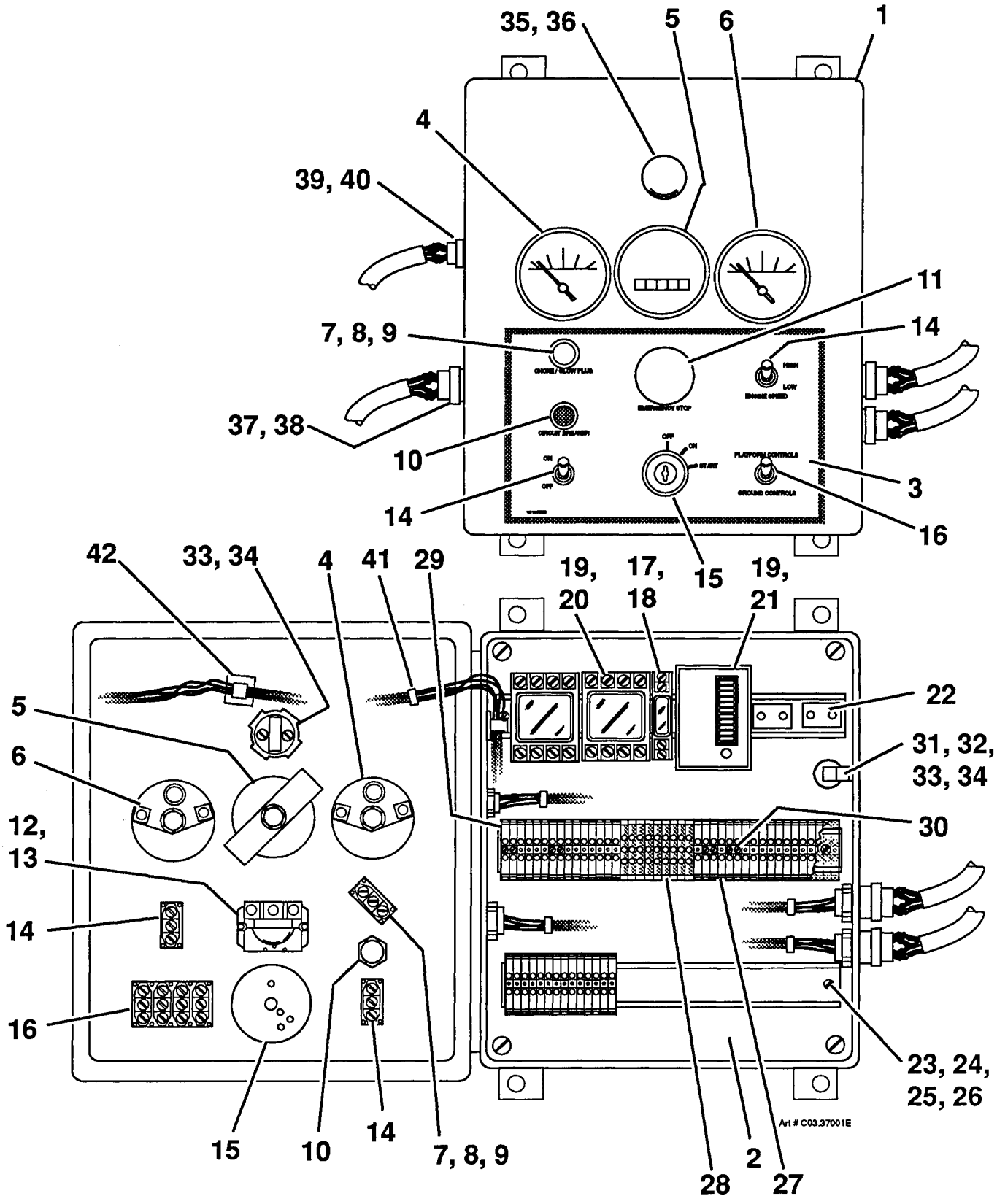
TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 2 OF 2)		
SIMON AERIALS INC.	NEW 28 APR., 1992	PART NO.	PLATE NO. C03.34

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			This control box assembly for MP 80 and smaller with "Type 1" Electro-Proportional control system:	
1	2196520		BOX, GROUND CONTROL (Drilled. Includes cover) [12" (305 mm) x 14" (356 mm) x 6" (152 mm) deep]	1
2	2196530		SUBPLATE, MOUNTING	1
3	10-137500		DECAL, GROUND CONTROL	1
4	03-492200		METER, VOLTAGE	1
5	03-492300		METER, HOUR	1
6	03-492400		GAUGE, ENGINE OIL PRESSURE	1
7	03-402500		SWITCH, PUSH BUTTON (Choke/ Glow plug) (10 Amp, 250 Volt AC)	1
8	03-402600		BEZEL, PUSH BUTTON SWITCH	1
9	03-402800		BUTTON, PUSH (Blue)	1
10	03-024000		BREAKER, CIRCUIT (20 Amp @ 120 Volt AC, push to reset)	1
11	03-409800		BUTTON, EMERGENCY STOP (Red, "Twist to release" type)	1
12	03-454900		BASE, SWITCH MOUNTING	1
13	03-437300		BLOCK, CONTACT (normally closed)	1
14	03-020400		SWITCH, TOGGLE ("Engine speed" and "Ignition On/ Off") (2 position, maintained contact, single pole, single throw)	2
15	03-489800		SWITCH, KEY OPERATED (3 position. Includes 2 keys)	1
16	03-020700		SWITCH, TOGGLE (Ground/ Platform selector) (2 position, 4 contact, 2 pole, single throw)	1
17	03-051600		SOCKET, RELAY (Single pole, snap mount)	1
18	03-051500		RELAY, PLUG IN (12 Volt DC, single pole)	1
19	03-037500		SOCKET, RELAY (Double pole, snap mount)	3
20	03-050100		RELAY, PLUG IN (12 Volt DC, double pole)	2
21	03-052800		RELAY, TIME DELAY (.1 to 102.3 second, 12 Volt DC)	1
22	03-024700		BREAKER, CIRCUIT (20 Amp, thermal reset)	2
23	03-051700		RAIL, TERMINAL [1M (39.37") long section] [11" (283 mm) long piece needed for this application]	3
24	07-011335		MACHINE SCREW, PAN HEAD (#6-32 x 1/2")	7
25	07-050007		NUT, HEX LOCK (#6-32, Grade 5)	7
26	07-062009		WASHER, FLAT (#8)	7
27	03-066200		BLOCK, TERMINAL (25 Amp, for #12 Gauge wire)	47
28	03-039100		BLOCK, TERMINAL (Grounding, for #12 Gauge wire)	9
29	03-066100		PLATE, TERMINAL BLOCK END	2
30	03-066300		JUMPER, LINE (Double)	4

TITLE GROUND CONTROL BOX ASSEMBLY (PLATE 1 OF 2)

PLATE NO. C03.37 | **SIMON AERIALS INC.** NEW 13 DEC., 1993 | PART NO.



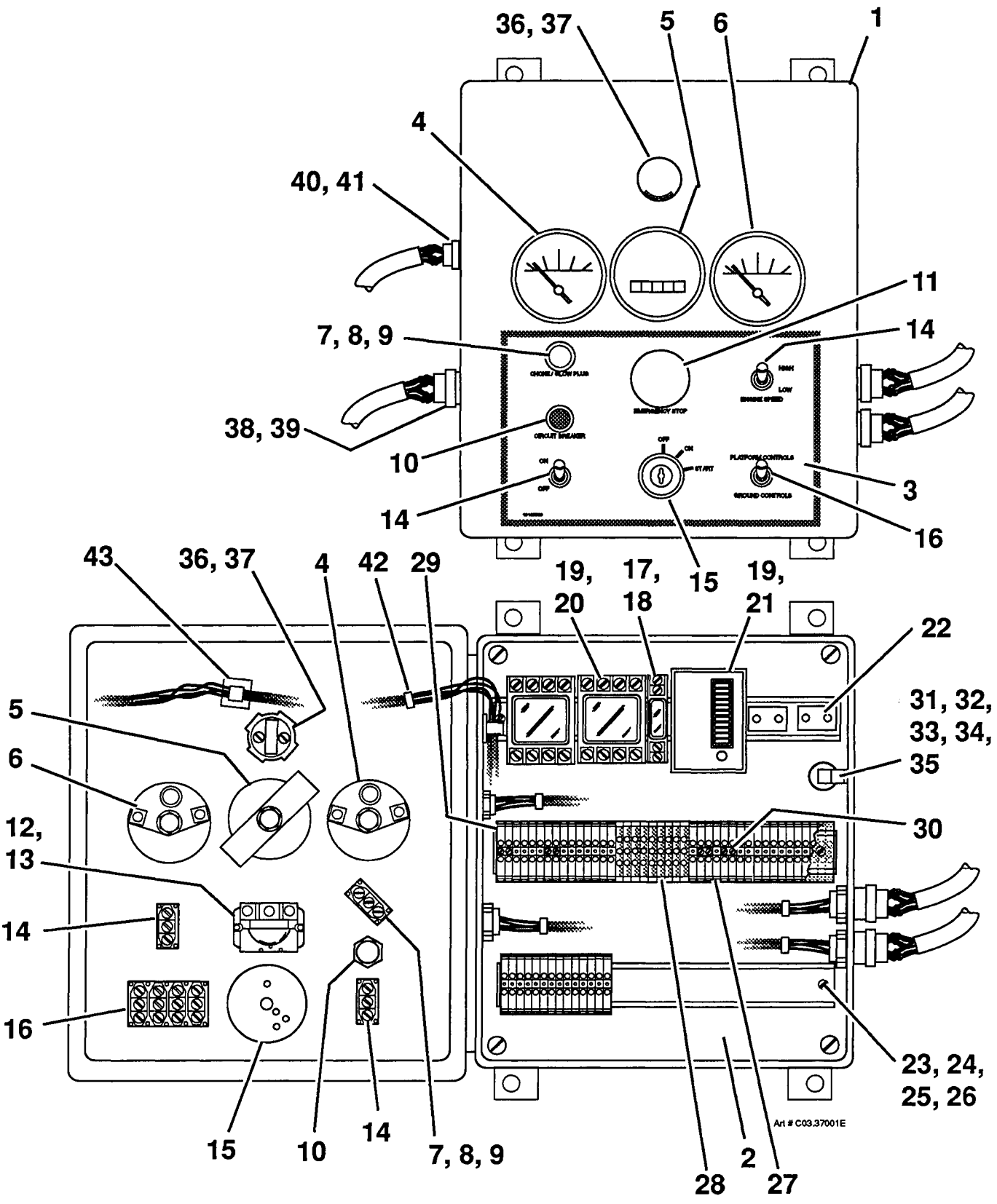
TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 1 OF 2)		
SIMON AERIALS INC. NEW 13 DEC., 1993		PART NO.	PLATE NO. C03.37

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
31	03-480600		RESISTOR (15 Ohm max., 25 Watt)	1
32	03-480700		BRACKET, RESISTOR MOUNTING	2
33	07-011335		MACHINE SCREW, PAN HEAD (#6-32 x 1/2")	2
34	07-050007		NUT, HEX LOCK (#6-32, Grade 5)	2
35	07-062009		WASHER, FLAT (#8)	2
36	03-038800		LAMP, CONTROL PANEL (hooded) (option)	1
37	03-418600		BULB, PANEL LAMP (12 Volt, #68)	1
38	03-063200		GRIP, CORD (3/4")	5
39	03-055600		NUT, CONDUIT (3/4")	5
40	03-041000		GRIP, CORD (1/2")	1
41	03-055500		NUT, CONDUIT (1/2")	1
42	03-064000		TIE, CABLE	A.R.
43	03-064100		MOUNT, CABLE TIE (Adhesive backed)	A.R.
			The following hardware items are typically used in making electrical connections in ground control boxes:	
44	03-092200		COUPLING, INSULATED (Male, blue nylon, #14-16 AWG)	A.R.
45	03-092300		COUPLING, INSULATED (Female, blue nylon, #14-16 AWG)	A.R.
46	03-096000		TERMINAL, END (Blue, "piggyback") (#14-16 AWG)	A.R.
47	03-094600		TERMINAL, RING (Blue, #14-16 AWG, #10 stud)	A.R.
48	03-091200		TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud)	A.R.
49	03-098400		TERMINAL, END (Blue, #14-16 AWG)	A.R.
50	03-099000		CONNECTOR, BUTT (Blue, #14-16 AWG)	A.R.
51	03-098100		TERMINAL, INSULATED (Slip-on, yellow, #10-12 AWG)	A.R.
52	03-095500		TERMINAL, RING (Yellow, #10 AWG, #6 stud)	A.R.
53	03-095700		TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud)	A.R.
54	03-099100		CONNECTOR, BUTT (Yellow, #10-12 AWG)	A.R.
55	03-095900		TERMINAL, RING (Red, #8 stud)	A.R.
56	03-066800		LOOM, WIRE (1/2")	A.R.
57	03-066900		LOOM, WIRE (3/4")	A.R.
58	03-405200		TUBING, HEAT SHRINK (Clear, 3/16")	A.R.
59	03-403800		DIODE	A.R.
60	03-447800		RESISTOR (10 Ohm, 12 Watt)	2

TITLE GROUND CONTROL BOX ASSEMBLY (PLATE 2 OF 2)

PLATE NO. C03.37 | **SIMON AERIALS INC.** NEW 13 DEC., 1993 | PART NO.



TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 2 OF 2)		
SIMON AERIALS INC. NEW 13 DEC., 1993		PART NO.	PLATE NO. C03.37

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2150050		CABINET, DRIVE CARD	1
2	03-027201		BOARD, DRIVE	4
3	2143240		CHANNEL, MOUNTING [10" (254 mm) long]	1
4	2150130		CHANNEL, MOUNTING [4" (102 mm) long]	2
5	07-013414		MACHINE SCREW, ROUND HEAD (#10-32 x 1/2", Grade 2)	6
6	07-050111		NUT, STOP (#10-32) (not shown)	6
7	03-066200		BLOCK, TERMINAL (25 Amp, for #12 Gauge wire)	23
8	03-039100		BLOCK, TERMINAL (Grounding, for #12 Gauge wire)	4
9	03-066100		PLATE, TERMINAL BLOCK END	1
10	03-066300		JUMPER, LINE (Double)	3
11	03-051500		RELAY, PLUG IN (Single pole, 12 Volt DC)	1
12	03-051600		SOCKET, RELAY (Single pole, snap mount)	1
13	2150140		TRACK, MOUNTING [9" (229 mm) long]	1
14	07-011335		MACHINE SCREW, ROUND HEAD (#6-32 x 1/2")	2
15	07-050007		NUT, LOCK (#6-32)	2
16	03-403100		POTENTIOMETER (25 K)	1
17	2114210		MOUNT, POTENTIOMETER	1
18	03-041000		GRIP, CORD (1/2", sealing)	3
19	03-055500		NUT, CONDUIT LOCK (1/2")	3
20	03-063200		GRIP, CORD (3/4", sealing)	1
21	03-055600		NUT, CONDUIT LOCK (3/4")	1
22	03-064000		TIE, CABLE [7.4" (188 mm) long]	A.R.
23	03-064100		MOUNT, CABLE TIE	7
24	2097255		BRACKET, MOUNTING	2
25			CAP SCREW, HEX HEAD	4
26			WASHER, FLAT	8
27			NUT, HEX LOCK	4

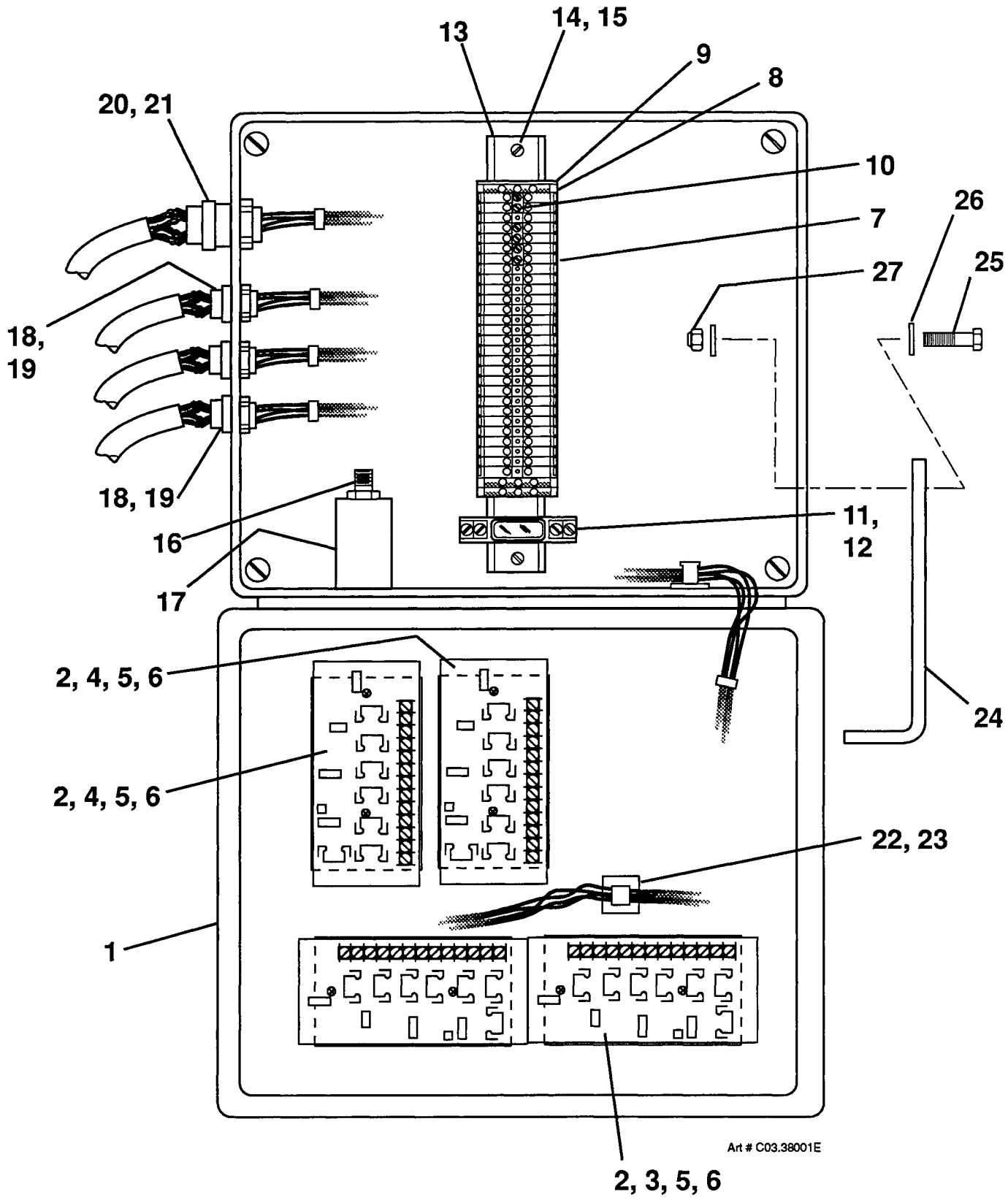
TITLE: DRIVE CARD BOX, MP (ELECTRO-PROPORTIONAL)

PLATE NO. C03.38

SIMON AERIALS INC.

NEW 10 DEC., 1993

PART NO.

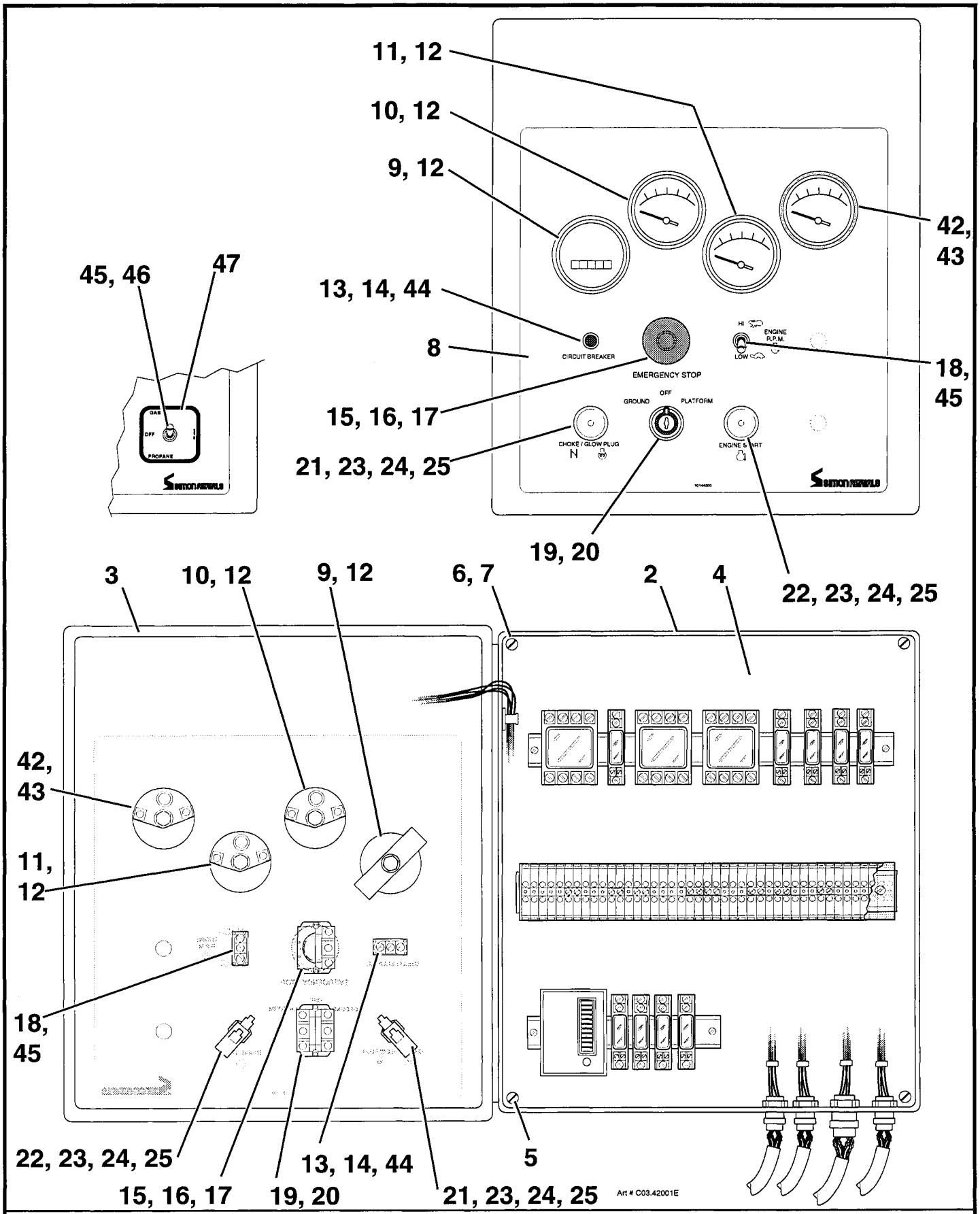


TITLE	DRIVE CARD BOX, MP (ELECTRO-PROPORTIONAL)		
SIMON AERIALS INC. NEW 10 DEC., 1993		PART NO.	PLATE NO. C03.38

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			GROUND CONTROL BOX ASSEMBLY	
	353 2870		MP 40 through MP 80, with Full Hydraulic control system	
	353 2870		MP 40 through MP 80, with Hydraport control system	
	354 4310		MP 70, Special application	
2	231 0430		BOX, GROUND CONTROL (Drilled. Includes cover) (12-1/4" x 14-1/4" x 6" deep [311 x 362 x 152 mm])	1
3	10-129100		WEATHERSTRIPPING (3/16" x 3/4" x 50 ft roll. 5 ft [1.5 M] required this application)	A.R.
4	219 6530		SUB PLATE, MOUNTING	1
5	07-013411		MACHINE SCREW, ROUND HD (#10-32 x 5/16", Gr. 2)	2
6	07-013414		MACHINE SCREW, ROUND HD (#10-32 x 1/2", Grade 2)	2
7	07-117600		WASHER, EXTERNAL TOOTH (#10)	2
8	10-144300		DECAL, GROUND CONTROL	1
9	03-492300		METER, HOUR (Solid state, 12 to 24 Volt DC)	1
10	03-492200		METER, VOLT (12 Volt DC, 8 to 18 Volt range)	1
11			GAUGE, ENGINE OIL PRESSURE (12 Volt DC)	1
	03-492400		0 to 100 psi (690 kPa) (comes with Control Box Ass'y.)	
	03-496400		0 to 40 psi (276 kPa) (needed for some applications)	
12	01-225700		"O"-RING (1.989" I.D., .070" thick) (Meter seal to panel)	3
13	03-024000		BREAKER, CIRCUIT (20 Amp @ 120 Volt AC, push to reset)	1
14	01-037400		"O"-RING (.351" O.D., .072" thick)	1
15			BUTTON, EMERGENCY STOP	1
	03-496000		Silver and red, pull to reset (earlier version)	
	03-702000		Red, pull to reset (current version)	
16	03-454900		BASE, CONTACT BLOCK (for button 03-702000)	1
17			BLOCK, CONTACT (Normally closed)	1
	03-496300		for earlier button 03-496000	
	03-437300		for current button 03-702000	
18	03-020400		SWITCH, TOGGLE (Engine speed)	
			(2 position, maintained contact, single pole, single throw)	1
19	03-496100		SWITCH, KEY OPERATED (3 position) (includes 2 keys)	1
20	03-496200		BLOCK, CONTACT (Normally open)	2

TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 1 OF 3)		
PLATE NO. C03.42	**SIMON AERIALS INC.**	REV. 09 FEB., 1996	PART NO.



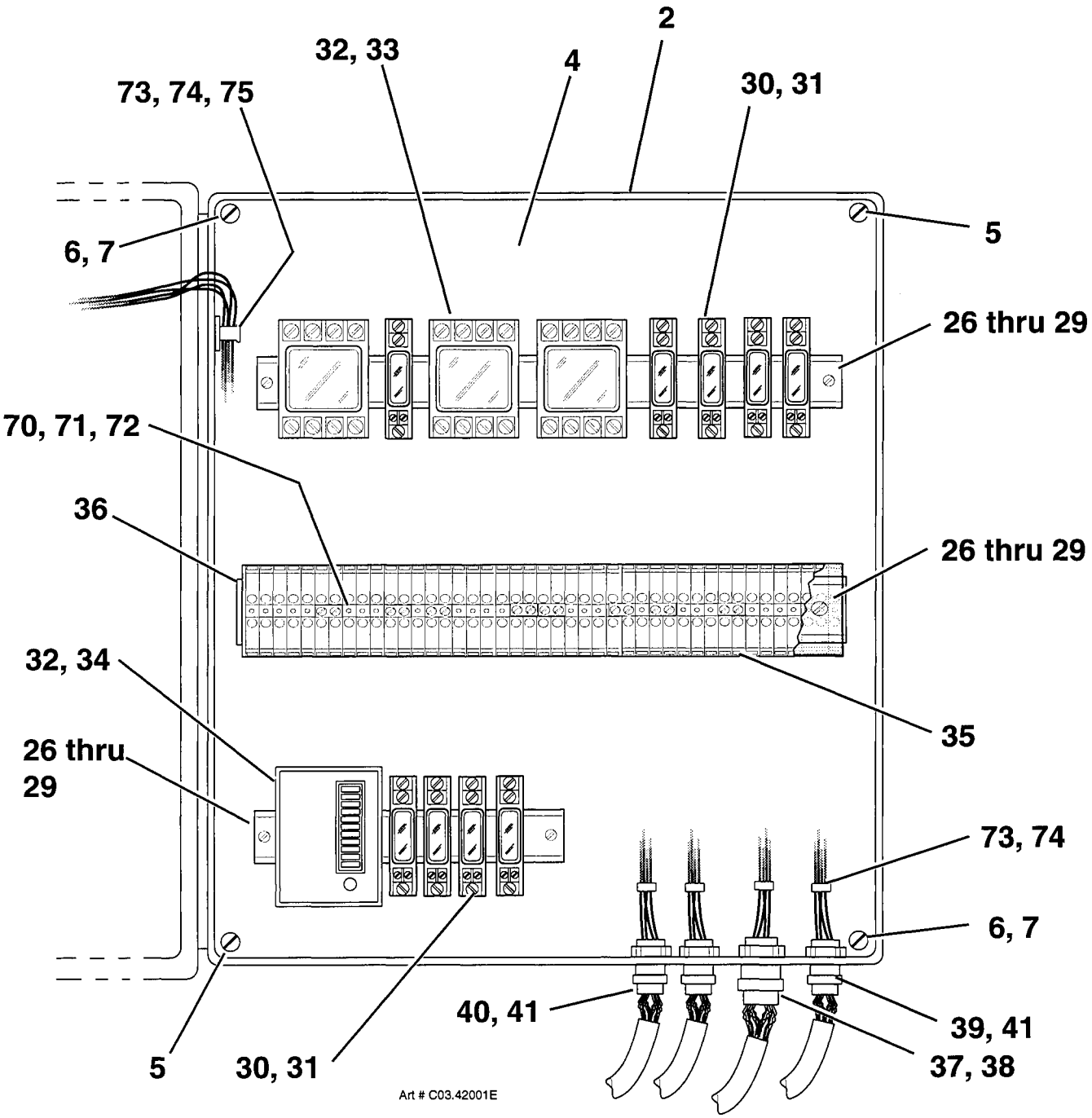
TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 1 OF 3)		
SIMON AERIALS INC.	REV. 09 FEB., 1996	PART NO.	PLATE NO. C03.42

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			GROUND CONTROL BOX ASSEMBLY (continued)	
21	03-402500		SWITCH, PUSH BUTTON (10 Amp, 250 Volt AC) (Choke/ Glow Plug) (comes with Control Box 353 2870)	1
	03-497900		PLUG, PLASTIC (for Control Box 354 4310, or versions of Control Box 353 2870 used with Deutz Diesel engine) (1/2" dia., "Panel Seal", to fill unused toggle switch hole)	1
22	03-402500		SWITCH, PUSH BUTTON (10 A, 250 V AC) (Engine start)	1
23	03-402800		BUTTON, PUSH (Blue) (Choke/ Glow plug) (Engine start) (Some earlier versions used Red [03-402700] or Green [03-402900] push buttons. Order 03-402800.)	A.R.
24	03-402600		SEAL, SWITCH BEZEL	A.R.
25	10-151000		CAP, VINYL (Black)	A.R.
26	03-051700		RAIL, TERMINAL (1M [39.37"] long section. Cut to fit)	A.R.
27	07-011335		MACHINE SCREW, PAN HEAD (#6-32 x 1/2")	6
28	07-050007		NUT, HEX LOCK (#6-32, Grade 5)	6
29	07-062009		WASHER, FLAT (#8)	6
30	03-051600		SOCKET, RELAY (Single pole, snap mount)	9
31	03-051500		RELAY, PLUG IN (12 Volt DC, single pole)	9
32	03-037500		SOCKET, RELAY (Double pole, snap mount)	4
33	03-050100		RELAY, PLUG IN (12 Volt DC, double pole)	3
34	03-052800		RELAY, TIME DELAY (.1 to 102.3 second, 12 Volt DC)	1
35	03-066200		BLOCK, TERMINAL (25 Amp, for #12 Gauge wire)	43
36	03-066100		PLATE, TERMINAL BLOCK END	1
37	03-063200		GRIP, CORD (3/4", with .69" to .75" seal)	3
38	03-055600		NUT, CONDUIT LOCK (3/4")	3
39	03-041000		GRIP, CORD (1/2", with .38" to .44" seal)	A.R.
40	03-045500		GRIP, CORD (1/2", with .31" to .38" seal)	2
41	03-055500		NUT, CONDUIT LOCK (1/2")	A.R.

TITLE GROUND CONTROL BOX ASSEMBLY (PLATE 2 OF 3)

PLATE NO. C03.42 | **SIMON AERIALS INC.** REV. 09 FEB., 1996 | PART NO.

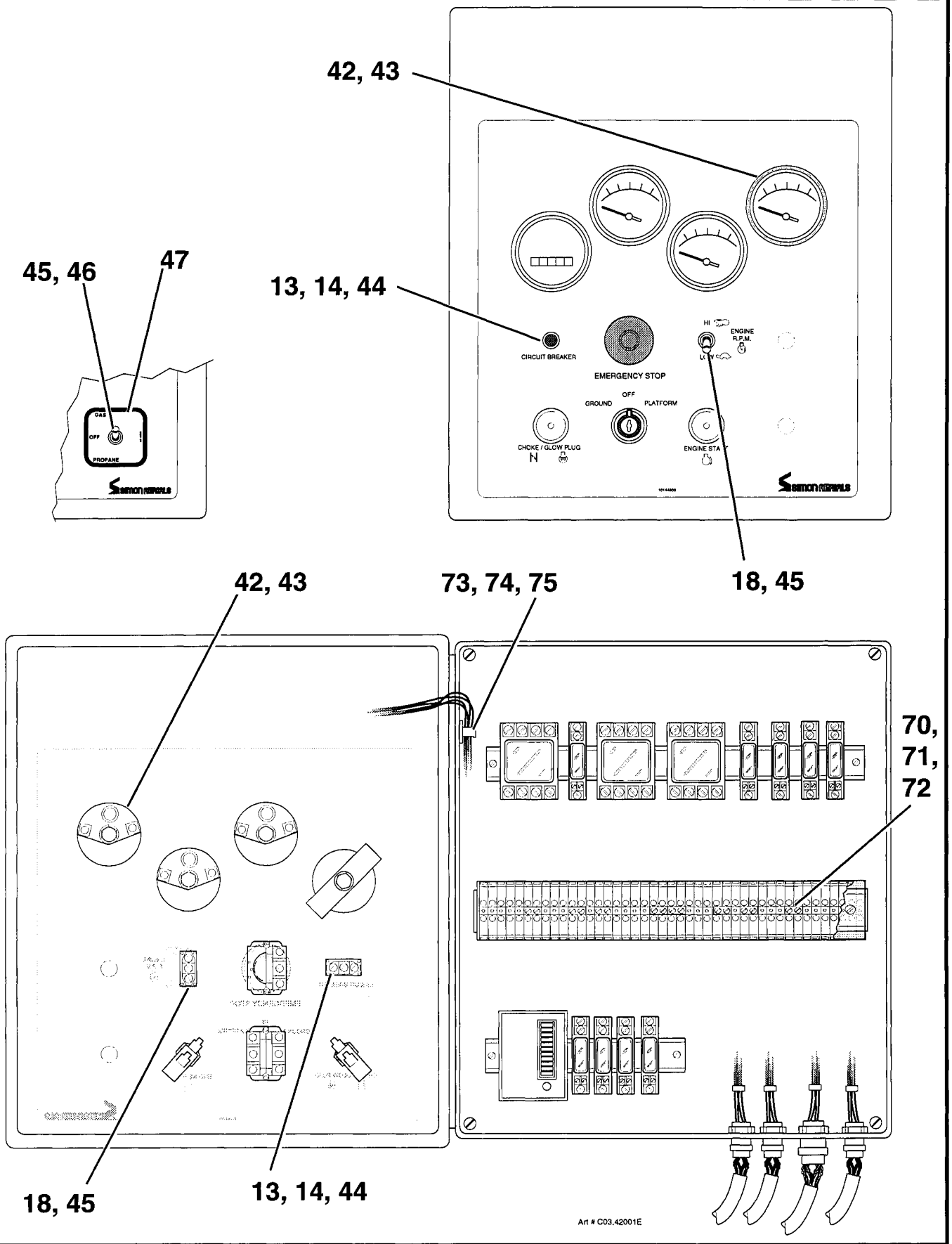


TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 2 OF 3)		
SIMON AERIALS INC.	REV. 09 FEB., 1996	PART NO.	PLATE NO. C03.42

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items **are not** included with the Ground Control Box:	
42	03-493300		GAUGE, ENGINE COOLANT TEMPERATURE (optional with liquid cooled engines)	1
43	01-225700		"O"-RING (1.989" I.D., .070" thick) (Meter seal to panel)	1
44	03-499800		SEAL, CIRCUIT BREAKER BUTTON (option)	1
45	03-506200		SEAL, TOGGLE SWITCH (option)	A.R.
46			SWITCH, TOGGLE (with "Dual Fuel" option)	1
47	10-016800		DECAL, "GAS/ OFF/ PROPANE" (with "Dual Fuel" option)	1
			The following hardware items, listed for your convenience, are **typically** used in Simon electrical control boxes:	
48	03-446100		CABLE, ELECTRICAL (10 conductor, #18 AWG)	
40	03-446800		CABLE, ELECTRICAL (10 conductor, #16 AWG)	
50	03-488800		CABLE, ELECTRICAL (Type F 569, 19 conductor, #16 AWG)	
51	03-088300		WIRE, ELECTRICAL (#14 AWG, Blue, stranded)	
52	03-087500		WIRE, ELECTRICAL (#16 AWG, Blue, stranded)	
53	03-087600		WIRE, ELECTRICAL (#16 AWG, Black, stranded)	
54	03-061800		DIODE, RECTIFIER (600 Volt, 6 Amp)	
55	03-092200		COUPLING, INSULATED (Male, blue nylon, #14-16 AWG)	
56	03-092300		COUPLING, INSULATED (Female, blue nylon, #14-16 AWG)	
57	03-096000		TERMINAL, END (Blue, "piggyback") (#14-16 AWG)	
58	03-094600		TERMINAL, RING (Blue, #14-16 AWG, #10 stud)	
59	03-091200		TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud)	
60	03-098400		TERMINAL, END (Blue, #14-16 AWG)	
61	03-099000		CONNECTOR, BUTT (Blue, #14-16 AWG)	
62	03-098100		TERMINAL, INSULATED (Slip-on, yellow, #10-12 AWG)	
63	03-095500		TERMINAL, RING (Yellow, #10 AWG, #6 stud)	
64	03-095700		TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud)	
65	03-099100		CONNECTOR, BUTT (Yellow, #10-12 AWG)	
66	03-095900		TERMINAL, RING (Red, #8 stud)	
67	03-066800		LOOM, WIRE (1/2")	
68	03-066900		LOOM, WIRE (3/4")	
69	03-405200		TUBING, HEAT SHRINK (Clear, 3/16")	
70	03-066300		BAR, JUMPER (2 pole) (Double line jumper)	
71	03-067500		BAR, JUMPER (3 pole) (Triple line jumper)	
72	03-707200		BAR, JUMPER (4 pole) (Quad line jumper)	
73	03-439000		TIE, CABLE (3-5/8" [92 mm] long)	
74	03-064000		TIE, CABLE (7.4" [188 mm] long)	
75	03-064100		MOUNT, CABLE TIE (Adhesive backed)	

TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 3 OF 3)		
PLATE NO. C03.42	**SIMON AERIALS INC.**	REV. 09 FEB., 1996	PART NO.



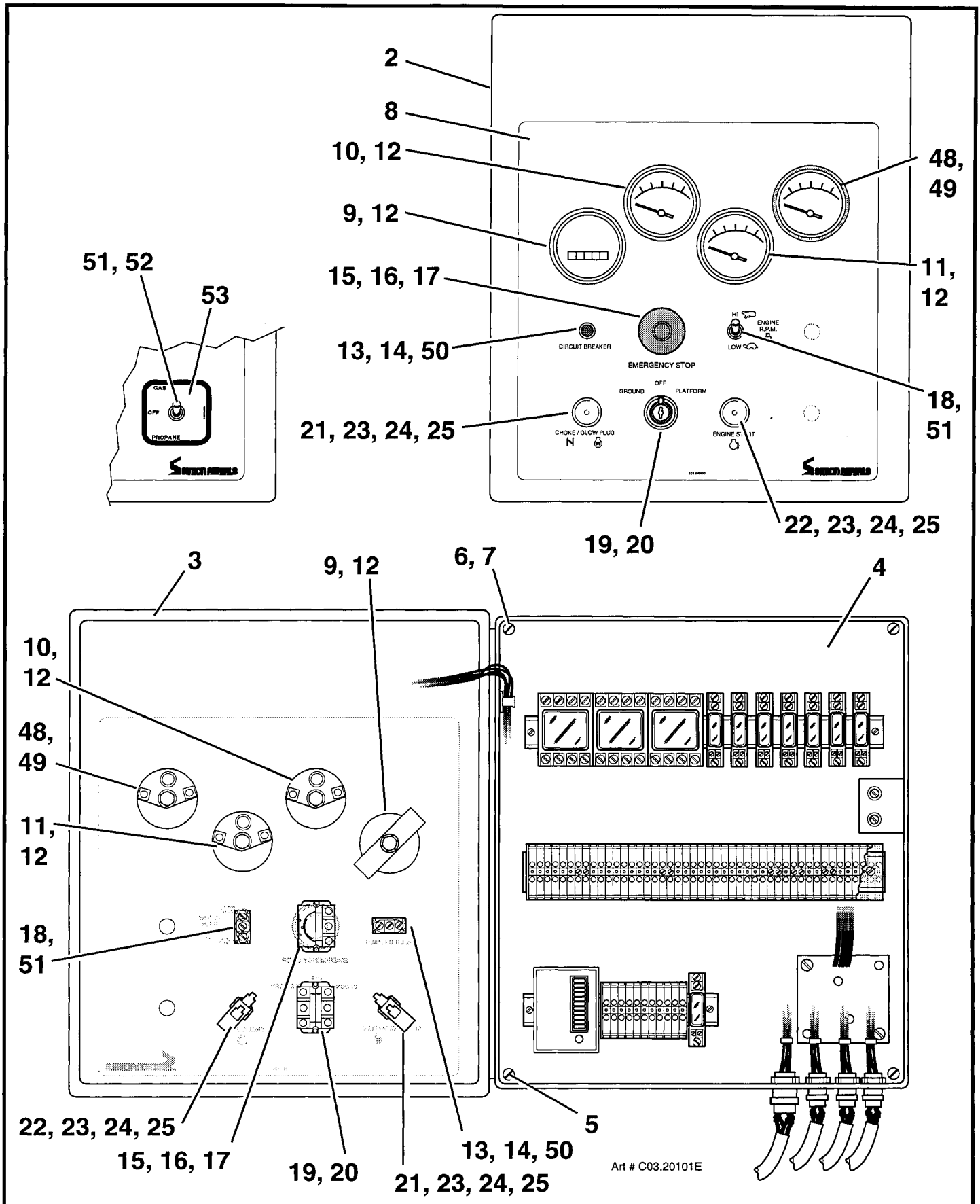
TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 3 OF 3)		
SIMON AERIALS INC.	REV. 09 FEB., 1996	PART NO.	PLATE NO. C03.42

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			GROUND CONTROL BOX ASSEMBLY	1
	353 5620		**MP 40 thru MP 80**, with Electro-Proportional control system	
	353 5621		Model **RP 46**	
	353 5620		Model **RP 66**	
2	231 0430		BOX, GROUND CONTROL (Drilled. Includes cover)	
			(12-1/4" x 14-1/4" x 6" deep [311 x 362 x 152 mm])	1
3	10-129100		WEATHERSTRIPPING (3/16" x 3/4" x 50 ft roll.	
			5 ft [1.5 M] required this application)	A.R.
4	219 6530		SUBPLATE, MOUNTING	1
5	07-013411		MACHINE SCREW, ROUND HD (#10-32 x 5/16", Gr. 2)	2
6	07-013414		MACHINE SCREW, ROUND HD (#10-32 x 1/2", Grade 2)	2
7	07-117600		WASHER, EXTERNAL TOOTH (#10)	2
8	10-144300		DECAL, GROUND CONTROL	1
9	03-492300		METER, HOUR (Solid state, 12 to 24 Volt DC)	1
10	03-492200		METER, VOLT (12 Volt DC, 8 to 18 Volt range)	1
11			GAUGE, ENGINE OIL PRESSURE (12 Volt DC)	1
	03-492400		0 to 100 psi (690 kPa) (comes with Control Box Ass'y.)	
	03-496400		0 to 40 psi (276 kPa) (needed for some applications)	
12	01-225700		"O"-RING (1.989" I.D., .070" thick) (Meter seal to panel)	3
13	03-024000		BREAKER, CIRCUIT (20 Amp @ 120 Volt AC,	
			push to reset)	1
14	01-037400		"O"-RING (.351" I.D., .072" thick)	1
15			BUTTON, EMERGENCY STOP	1
	03-496000		Silver and red, pull to reset (earlier version)	
	03-702000		Red, pull to reset (current version)	
16	03-454900		BASE, CONTACT BLOCK (for button 03-702000)	1
17			BLOCK, CONTACT (Normally closed)	1
	03-496300		for earlier button 03-496000	
	03-437300		for current button 03-702000	
18	03-020400		SWITCH, TOGGLE (Engine speed) (for Ass'y. 353 5620)	
			(2 position, maintained contact, single pole, single throw)	1
	03-497900		PLUG, PLASTIC (for Assembly 353 5621)	
			(1/2" dia., "Panel Seal", to fill unused toggle switch hole)	1
19	03-496100		SWITCH, KEY OPERATED (3 position) (includes 2 keys)	1
20	03-496200		BLOCK, CONTACT (Normally open)	2

TITLE GROUND CONTROL BOX ASSEMBLY, MP, RP 46, RP 66 (PLATE 1 OF 3)

PLATE NO.	C03.201	**SIMON AERIALS INC.**	REV. 09 FEB., 1996	PART NO.



TITLE GROUND CONTROL BOX ASSEMBLY, MP, RP 46, RP 66 (PLATE 1 OF 3)

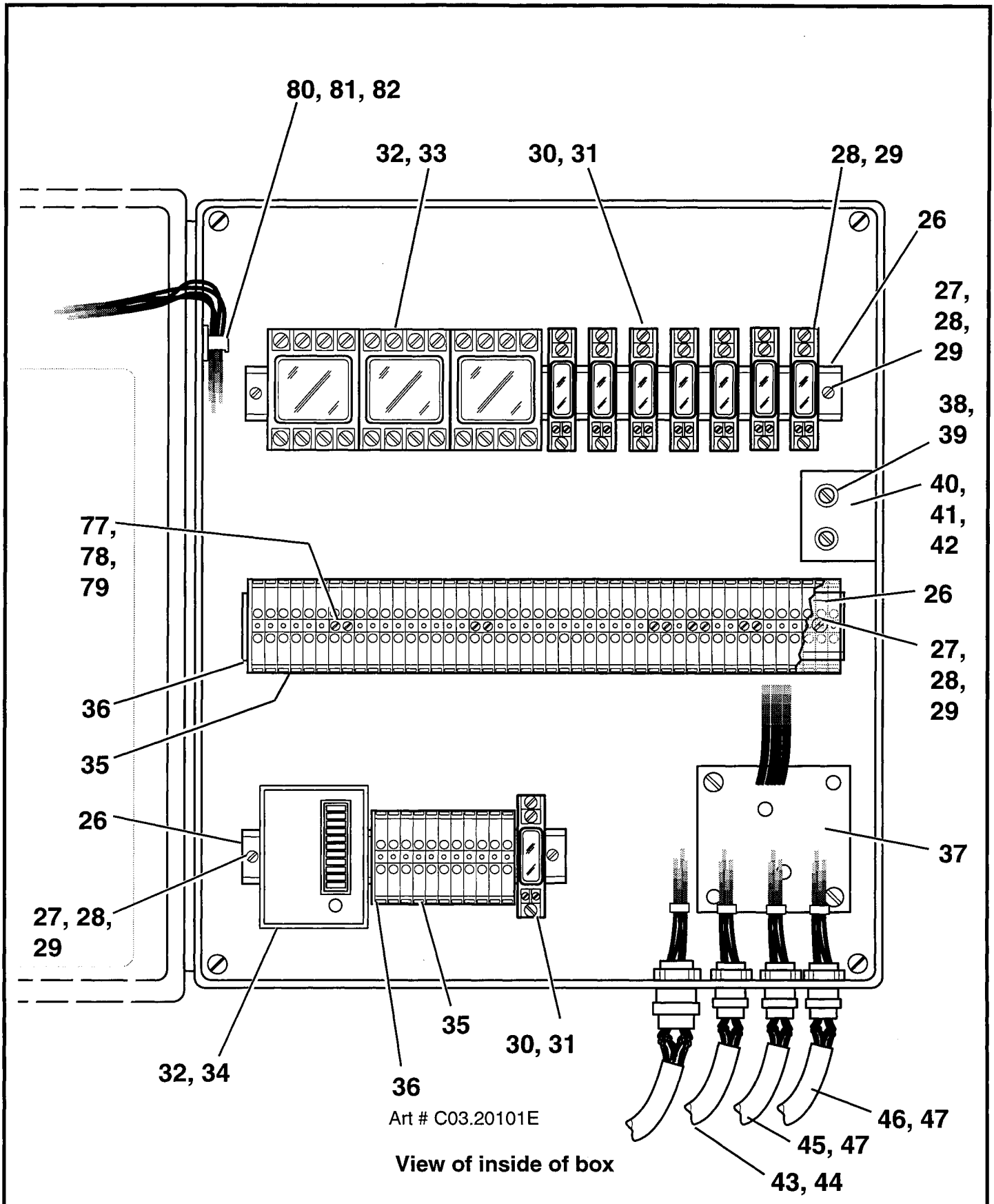
SIMON AERIALS INC.	REV. 09 FEB., 1996	PART NO.	PLATE NO. C03.201

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			GROUND CONTROL BOX ASSEMBLY (continued)	
21	03-402500		SWITCH, PUSH BUTTON (10 Amp, 250 Volt AC) (Choke/ Glow Plug) (comes with Control Box Ass'y.)	1
	03-497900		PLUG, PLASTIC (for versions with Deutz Diesel engine) (1/2" dia., "Panel Seal", to fill unused toggle switch hole)	1
22	03-402500		SWITCH, PUSH BUTTON (10 A, 250 V AC) (Engine start)	1
23	03-402800		BUTTON, PUSH (Blue) (Choke/ Glow plug) (Engine start) (Some earlier versions used Red [03-402700] or Green [03-402900] push buttons. Order 03-402800.)	A.R.
24	03-402600		SEAL, SWITCH BEZEL	A.R.
25	10-151000		CAP, VINYL (Black)	A.R.
26	03-051700		RAIL, TERMINAL (1M [39.37"] long section. Cut to fit)	A.R.
27	07-011335		MACHINE SCREW, PAN HEAD (#6-32 x 1/2")	6
28	07-050007		NUT, HEX LOCK (#6-32, Grade 5)	6
29	07-062009		WASHER, FLAT (#8)	6
30	03-051600		SOCKET, RELAY (Single pole, snap mount)	7
31	03-051500		RELAY, PLUG IN (12 Volt DC, single pole)	7
32	03-037500		SOCKET, RELAY (Double pole, snap mount)	4
33	03-050100		RELAY, PLUG IN (12 Volt DC, double pole)	3
34	03-052800		RELAY, TIME DELAY (.1 to 102.3 second, 12 Volt DC)	1
35	03-066200		BLOCK, TERMINAL (25 Amp, for #12 Gauge wire)	57
36	03-066100		PLATE, TERMINAL BLOCK END	2
37	03-481600		MODULE, CONTROL (Marked "MC 31000036". Controls low speed drive from ground.)	1
38	03-027231		POTENTIOMETER (10 K Ohm)	2
39	03-044900		LOCK, SHAFT	2
40	232 3870		BRACKET, POTENTIOMETER MOUNTING	1
41	07-090156		CAP SCREW, BUTTON HEAD (1/4"-20 x 5/8", Stainless steel)	1
42	07-065014		WASHER, HELICAL LOCK (1/4")	1
43	03-063200		GRIP, CORD (3/4", with .69" to .75" seal)	4
44	03-055600		NUT, CONDUIT (3/4")	4
45	03-041000		GRIP, CORD (1/2", .with 38" to .44" seal)	1
46	03-045500		GRIP, CORD (1/2", .with 31" to .38" seal)	2
47	03-055500		NUT, CONDUIT (1/2")	3

TITLE GROUND CONTROL BOX ASSEMBLY, MP, RP 46, RP 66 (PLATE 2 OF 3)

PLATE NO.		PART NO.
C03.201	**SIMON AERIALS INC.** REV. 09 FEB., 1996	



TITLE GROUND CONTROL BOX ASSEMBLY, MP, RP 46, RP 66 (PLATE 2 OF 3)

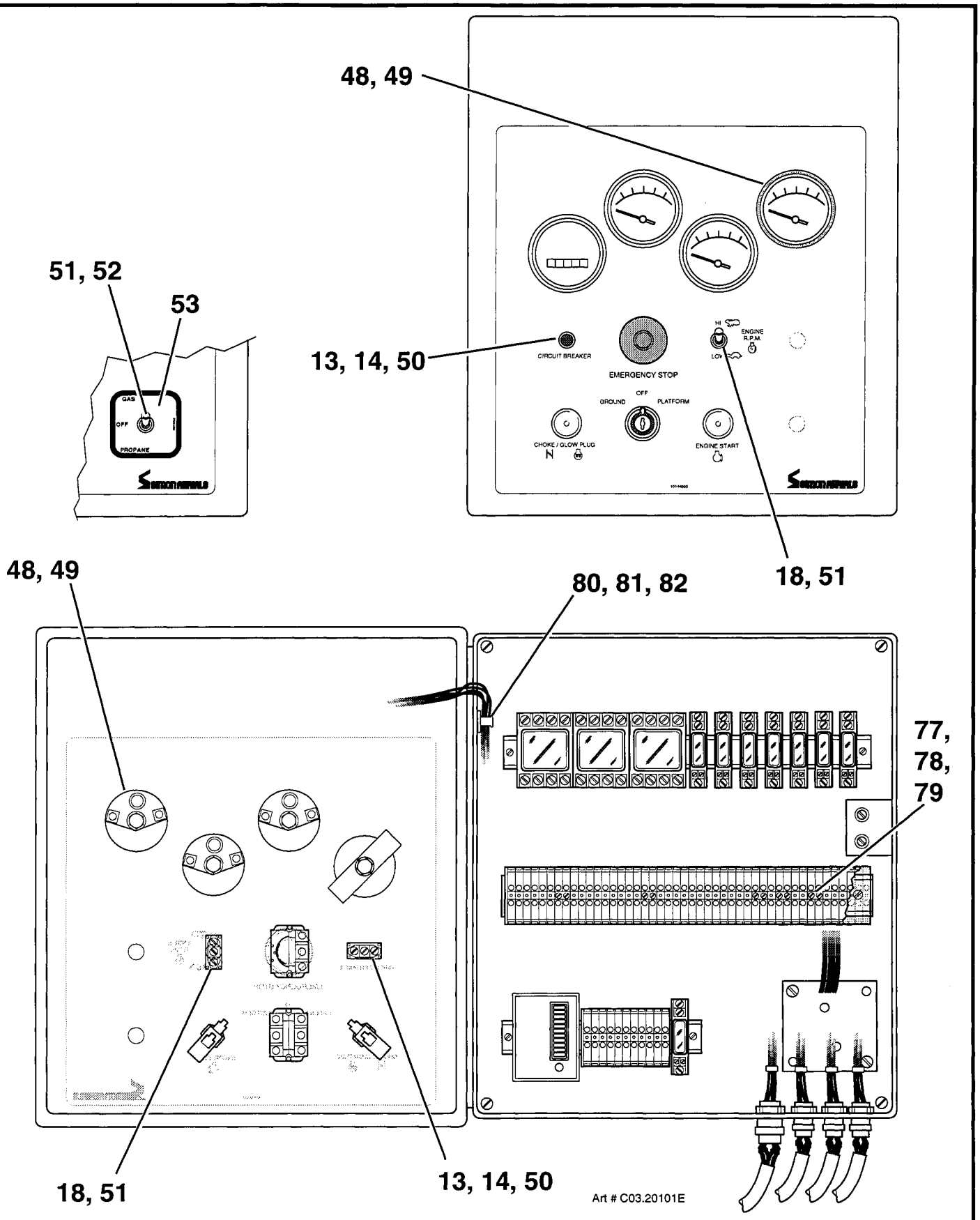
SIMON AERIALS INC. REV. 09 FEB., 1996	PART NO.	PLATE NO. C03.201

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items **are not** included with the Ground Control Box:	
48	03-493300		GAUGE, ENGINE COOLANT TEMPERATURE (optional with liquid cooled engines)	1
49	01-225700		"O"-RING (1.989" I.D., .070" thick) (Meter seal to panel)	1
50	03-499800		SEAL, CIRCUIT BREAKER BUTTON (option)	1
51	03-506200		SEAL, TOGGLE SWITCH (option)	A.R.
52			SWITCH, TOGGLE (with "Dual Fuel" option)	1
53	10-016800		DECAL, "GAS/ OFF/ PROPANE" (with "Dual Fuel" option)	1
			The following hardware items, listed for your convenience, are **typically** used in Simon electrical control boxes:	
54	03-446100		CABLE, ELECTRICAL (10 conductor, #18 AWG)	
55	03-446800		CABLE, ELECTRICAL (10 conductor, #16 AWG)	
56	03-488800		CABLE, ELECTRICAL (Type F 569, 19 conductor, #16 AWG)	
57	03-488900		CABLE, ELECTRICAL (Type F 570, 24 conductor, #16 AWG)	
58	03-088300		WIRE, ELECTRICAL (#14 AWG, Blue, stranded)	
59	03-087500		WIRE, ELECTRICAL (#16 AWG, Blue, stranded)	
60	03-087600		WIRE, ELECTRICAL (#16 AWG, Black, stranded)	
61	03-061800		DIODE, RECTIFIER (600 Volt, 6 Amp)	
62	03-092200		COUPLING, INSULATED (Male, blue nylon, #14-16 AWG)	
63	03-092300		COUPLING, INSULATED (Female, blue nylon, #14-16 AWG)	
64	03-096000		TERMINAL, END (Blue, "piggyback") (#14-16 AWG)	
65	03-094600		TERMINAL, RING (Blue, #14-16 AWG, #10 stud)	
66	03-091200		TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud)	
67	03-098400		TERMINAL, END (Blue, #14-16 AWG)	
68	03-099000		CONNECTOR, BUTT (Blue, #14-16 AWG)	
69	03-098100		TERMINAL, INSULATED (Slip-on, yellow, #10-12 AWG)	
70	03-095500		TERMINAL, RING (Yellow, #10 AWG, #6 stud)	
71	03-095700		TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud)	
72	03-099100		CONNECTOR, BUTT (Yellow, #10-12 AWG)	
73	03-095900		TERMINAL, RING (Red, #8 stud)	
74	03-066800		LOOM, WIRE (1/2")	
75	03-066900		LOOM, WIRE (3/4")	
76	03-405200		TUBING, HEAT SHRINK (Clear, 3/16")	
77	03-066300		BAR, JUMPER (2 pole) (Double line jumper)	
78	03-067500		BAR, JUMPER (3 pole) (Triple line jumper)	
79	03-707200		BAR, JUMPER (4 pole) (Quad line jumper)	
80	03-439000		TIE, CABLE (3-5/8" [92 mm] long)	
81	03-064000		TIE, CABLE (7.4" [188 mm] long)	
82	03-064100		MOUNT, CABLE TIE (Adhesive backed)	

TITLE GROUND CONTROL BOX ASSEMBLY, MP, RP 46, RP 66 (PLATE 3 OF 3)

PLATE NO.			PART NO.
C03.201	**SIMON AERIALS INC.**	REV. 09 FEB., 1996	



TITLE GROUND CONTROL BOX ASSEMBLY, MP, RP 46, RP 66 (PLATE 3 OF 3)

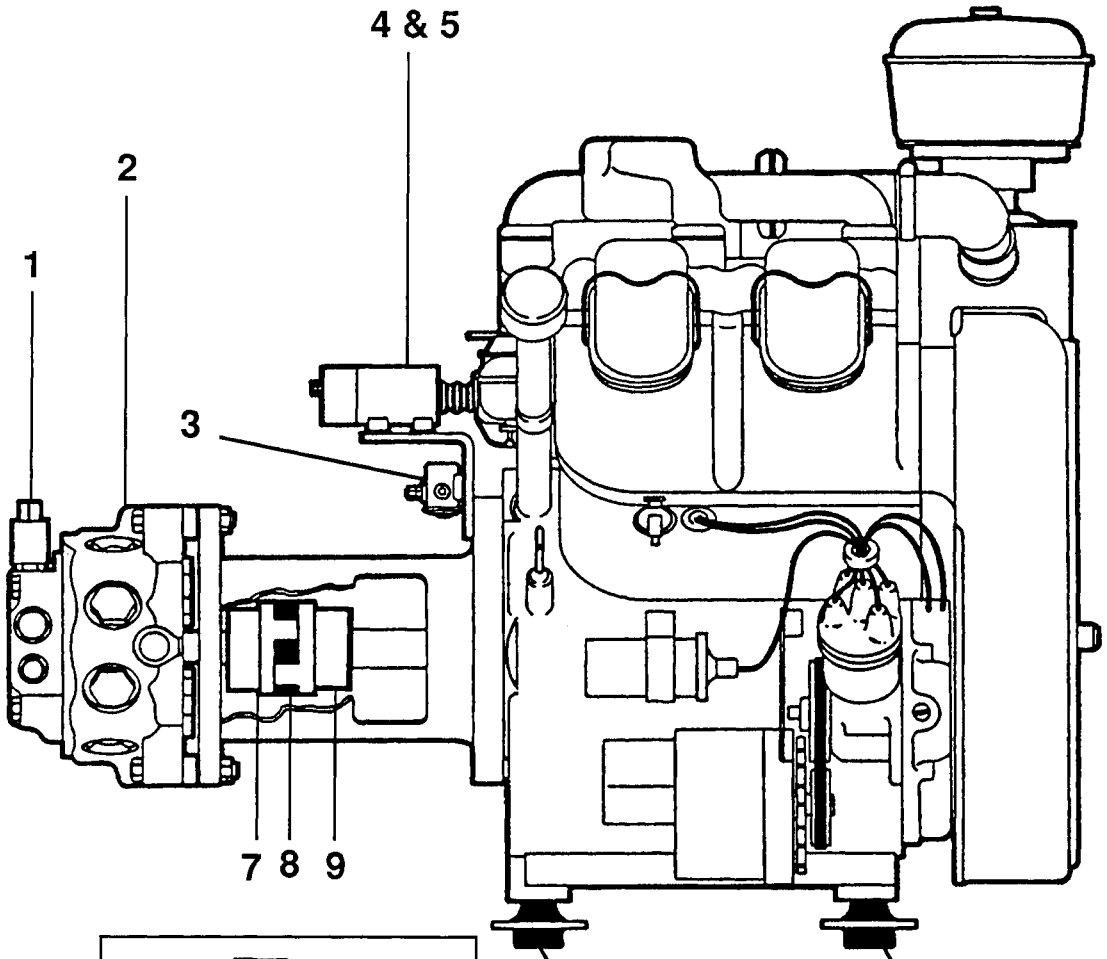
SIMON AERIALS INC. REV. 09 FEB., 1996	PART NO.	PLATE NO. C03.201

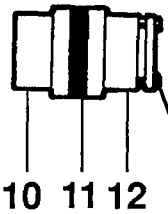
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-013700		SOLENOID VALVE, PUMP UNLOADING	1
2		D08	PUMP, HYDRAULIC	1
3	03-051300		RELAY, THROTTLE AND STARTER	2
4	03-456900		SOLENOID, THROTTLE (Trombetta)	1
	09-000401		SOLENOID, THROTTLE (Syncrostart)	1
5	03-050600		THROTTLE CLEVIS (not shown)	1
6	02-011300		COUPLING ASSEMBLY (Type 2)	1
7			COUPLING HALF, PUMP	1
8			COUPLING INSERT	1
9			COUPLING HALF, ENGINE	1
10	202135-9		COUPLING HALF, PUMP (Type 1, early model)	1
11	02-003300		COUPLING INSERT,(Type 1, early model)	1
12	02-003200		COUPLING HALF, ENGINE (Type 1, early model)	1
13	08-006700		BUSHING (Type 1, early model)	1
14	09-006500		MOUNT, MOTOR	4

TITLE GAS ENGINE ASSEMBLY - 65 H.P.

PLATE NO. C04.17 | **SIMON AERIALS INC.** REV. 01/16/91 | PART NO. 208485-1





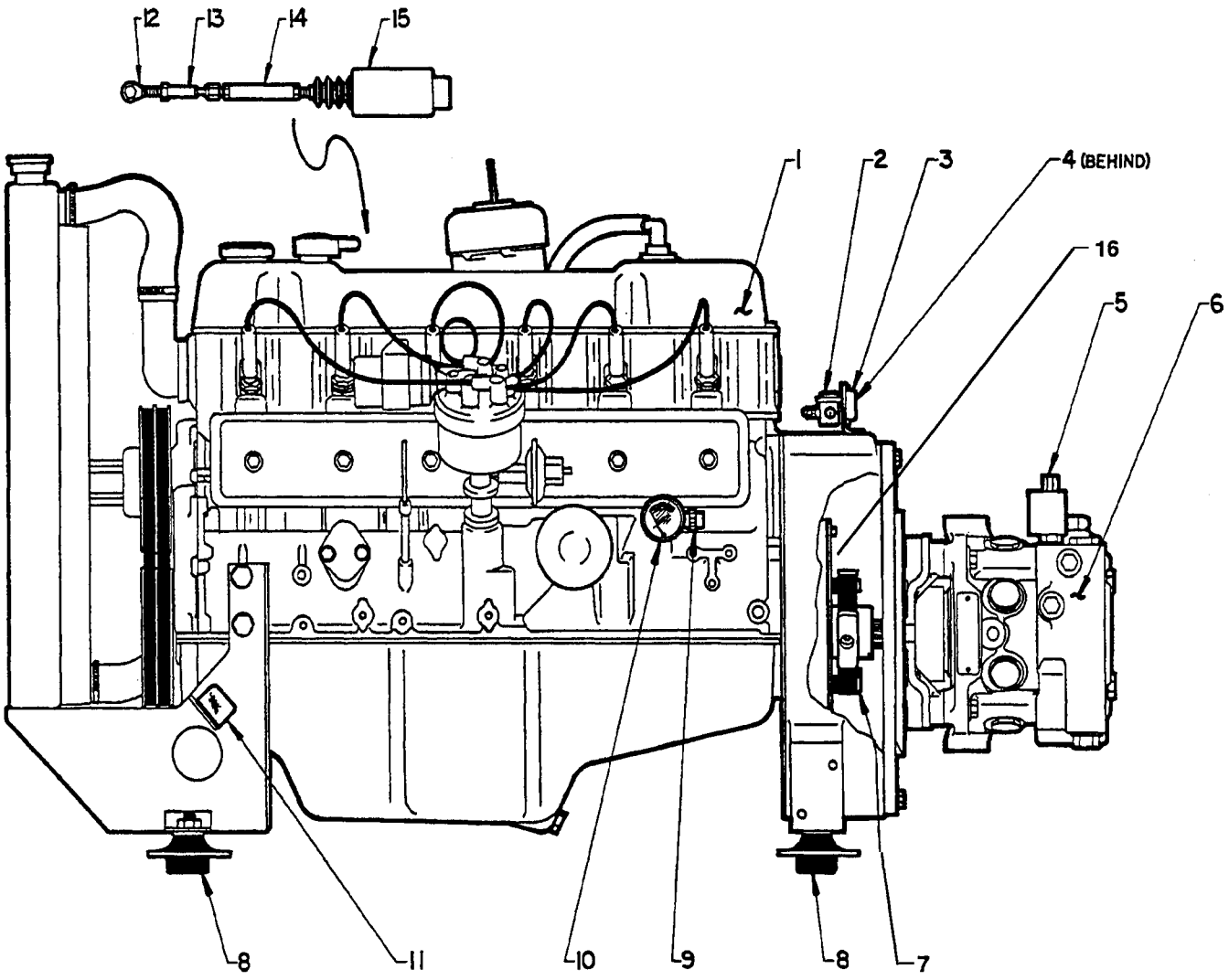
EARLY MODEL
COUPLING ASSEMBLY

TITLE	GAS ENGINE ASSEMBLY - 65 H.P.		
SIMON AERIALS INC. REV. 01/16/91	PART NO. 208485-1	PLATE NO. C04.17	

ITEM	PART N
1	09-0207
2	03-0221
3	
4	03-068(
5	01-0137
6	SEE INI
7	02-0126
8	09-0065
9	09-0127
10	10-0342
11	03-0463
12	08-0145
13	09-0164
14	
15	09-0004
16	02-0129

TITLE

PLATE NO. C04.

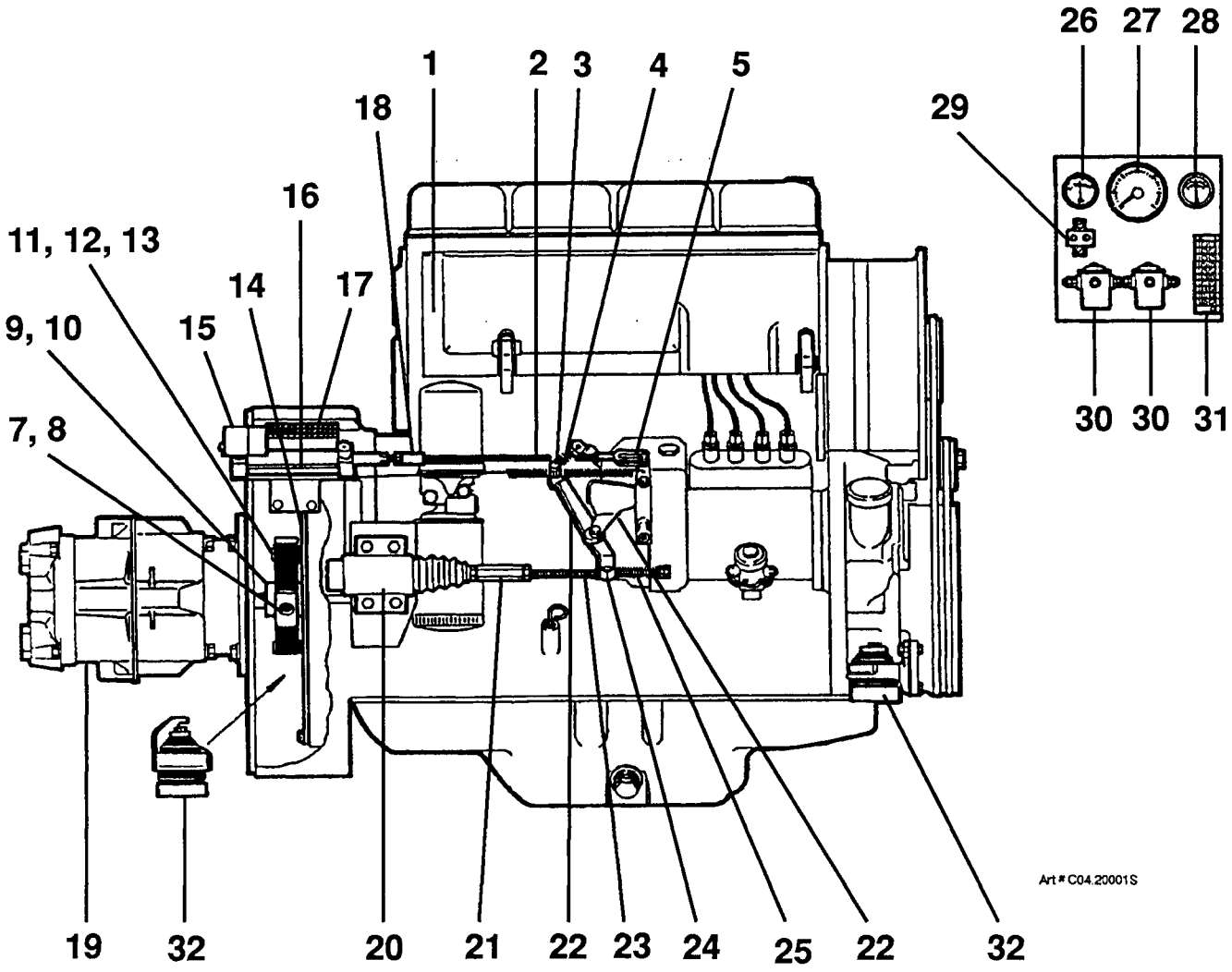


TITLE	WATER-COOLED GAS ENGINE ASSEMBLY		
SIMON AERIALS INC. REV. 09/07/90	PART NO. 2097938	PLATE NO. C04.18	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	09-008100		ENGINE, DIESEL (Deutz Model #F4L912)	1
2			ROD, THREADED	1
3	09-019405		POST, HEX ADAPTER	1
4	09-019406		SPRING, EXTENSION	1
5			CLEVIS, THROTTLE	1
6			COUPLING, PUMP	1
7			INSERT, RADIAL	3
8			SHOULDER SCREW, RADIAL INSERT	3
9			HUB, CYLINDRICAL	1
10			SCREW, SPLINE LOCK	2
11			INSERT, HYTREL	1
12			SHOULDER SCREW, HYTREL INSERT	3
13			PIN, AXIAL DRIVE	3
14			PLATE, ADAPTER	1
15	09-000405		SOLENOID VALVE, THROTTLE ADVANCE	1
16	09-000406		THROTTLE CYLINDER	1
	09-000412		SEAL KIT, THROTTLE CYLINDER	1
17	03-068000		BLOCK, TERMINAL	1
18			COUPLING	1
19	See index . .	D08.--	PUMP, HYDRAULIC	1
20	09-000404		SOLENOID, RACK	1
21	09-019402		ROD, HEX (threaded)	1
22	09-019407		LEVER ASSEMBLY, PIVOT	1
23	09-019401		ROD, EXTENSION	1
24	09-019403		SCREW, HEX	1
25	09-019404		SPRING, COMPRESSION	1
26	03-030400		AMMETER	1
27	09-000407		TACHOMETER	1
28	10-034200		GAUGE, OIL PRESSURE	1
29	03-024100		BREAKER, CIRCUIT (10 Amp)	1
30	03-051300		RELAY	2
31	03-068000		BLOCK, TERMINAL	1
32			MOUNT, ENGINE	4

TITLE	DIESEL ENGINE ASSEMBLY, DEUTZ F4L912
PLATE NO. C04.20	**SIMON AERIALS INC.** REV. 24 SEP., 1993
PART NO. 2098090	



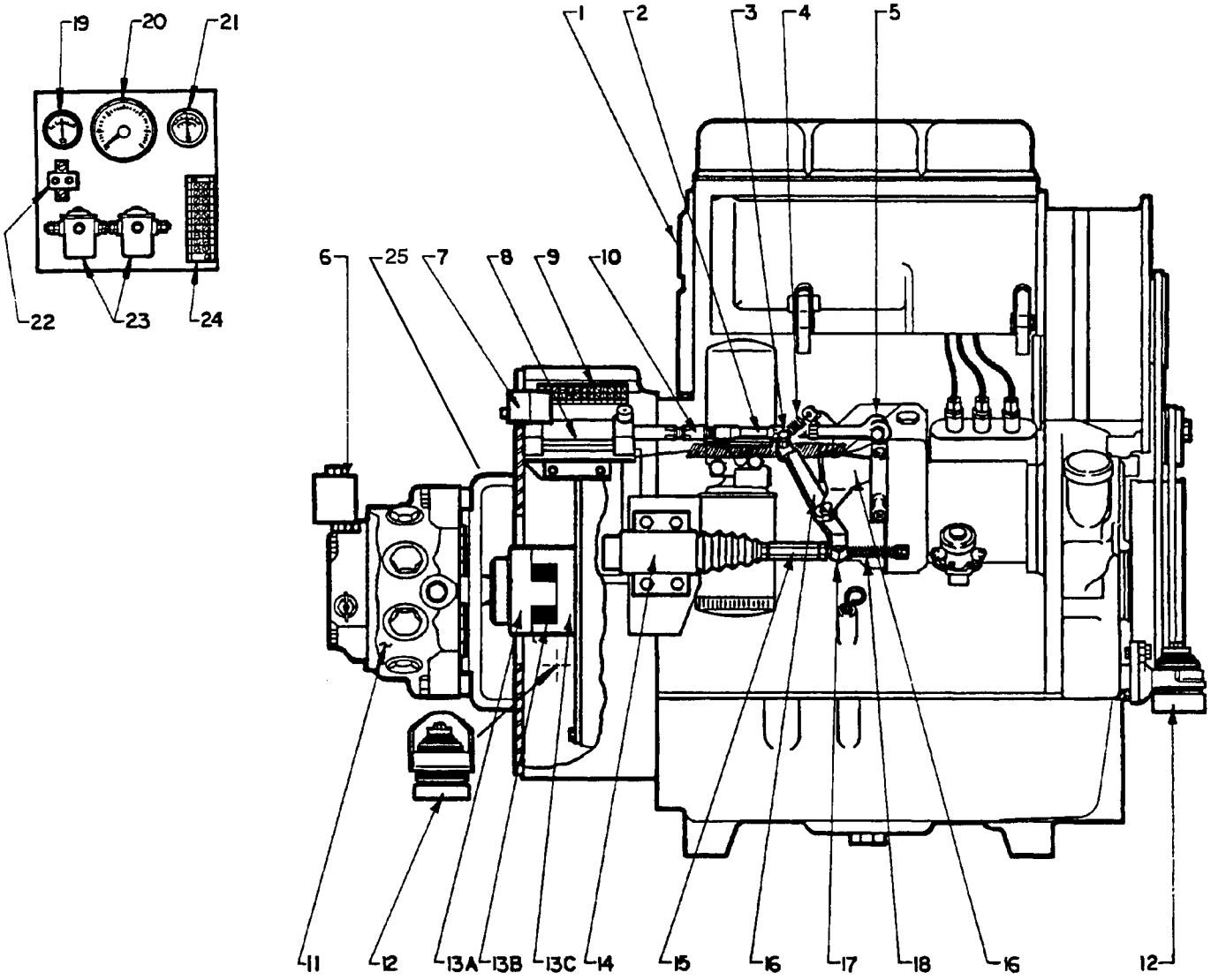
TITLE	DIESEL ENGINE ASSEMBLY, DEUTZ F4L912		
SIMON AERIALS INC. REV. 24 SEP., 1993	PART NO. 2098090	PLATE NO. C04.20	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	09-001300		ENGINE, DIESEL (Deutz Model F3L912)	1
2	09-016402	*	UNIVERSAL JOINT, STRAIGHT	1
3	09-019405	*	POST, HEX ADAPTER	1
4	09-019406	*	SPRING, EXTENSION	1
5			CLEVIS, THROTTLE	1
6	01-013700		VALVE, SOLENOID (pump unloading)	1
7	09-000405		VALVE, SOLENOID (throttle advance)	1
8	09-032000		CYLINDER, THROTTLE	1
8a	09-032001		CLEVIS	1
9	03-068000		BLOCK, TERMINAL	1
10	11-040008		COUPLING	1
11	See index .	D08. - -	PUMP, HYDRAULIC	1
12	09-006500		MOUNT, MOTOR	4
13	02-012600		COUPLING (complete) (Current style. Replaces Items 13a, 13b and 13c.)	1
13a	02-008501		BODY, COUPLING (pump half) (Superceded by 02-012600)	1
13b	02-008101		INSERT, SPIDER (Superceded by 02-012600)	1
13c	02-008503		BODY, FLANGE (engine half) (Superceded by 02-012600)	1
14	09-000404		SOLENOID, SHUT DOWN (Rack) (Horizontally mounted. Optional with Item 27)	1
15	09-019409	*	ROD, EXTENSION	1
16	09-019407	*	PIVOT LEVER ASSEMBLY	1
17	09-019403	*	SCREW, HEX HEAD	1
18	09-019404	*	SPRING, COMPRESSION	1
19	03-030400		AMMETER	1
20	09-000407		TACHOMETER	1
21	10-034200		GAUGE, OIL PRESSURE	1
22	03-024100		BREAKER, CIRCUIT (10 Amp)	1
23	03-051300		RELAY	2
24	03-068000		BLOCK, TERMINAL	1
25	2028196		ADAPTER, PUMP (old style)	1
26	09-019400		SHUT DOWN KIT **Note:** Items indicated by asterisk (*) are included in kit	1
27	09-001307		SOLENOID, SHUT DOWN (Rack) (Vertically mounted. Optional with Item 14)	1
28	09-041600		PIPE, EXHAUST (not shown)	1

TITLE DIESEL ENGINE ASSEMBLY

PLATE NO. C04.21 | **SIMON AERIALS INC.** | REV. 24 AUG., 1994 THIS SHEET ONLY | **PART NO.** 2098102



TITLE

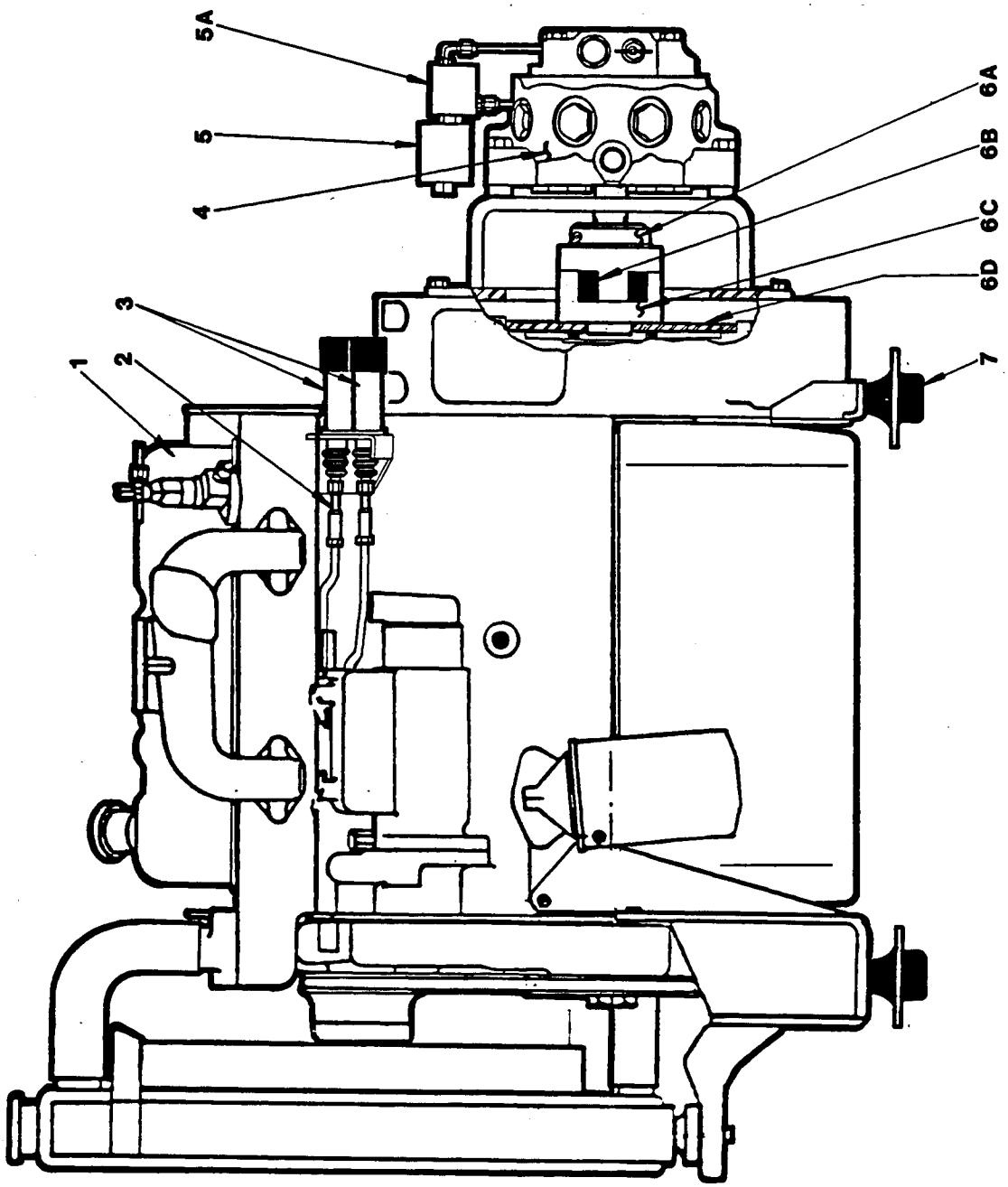
DIESEL ENGINE ASSEMBLY

SIMON AERIALS INC.	REV. 09/12/90	PART NO. 2098102	PLATE NO. C04.21

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	09-018100		DIESEL ENGINE, 4 CYL. (PERLINS MODEL #4.108)	1
2	11-040007		TREADED COUPLER, 5/16 - 18	2
3	03-414500		SOLENOID (TROTTLE, RACK)	2
4	SEE INDEX	D.8	HYDRAULIC PUMP	1
5	01-013700		SOLENOID VALVE, PUMP UNLOADING	1
5A	01-013900		SOLENOID VALVE BLOCK	1
6	02-008100		PUMP COUPLING - COMPLETE	1
6A	02-008501		COUPLING BODY, PUMP HALF	1
6B	02-008101		SPIDER INSERT	1
6C	02-008503		COUPLING BODY, ENGINE HALF	1
6D			FLYWHEEL FALNGE (FROM #02-008600 COUPLING)	1
7	09-006500		MOTOR MOUNT	4

DESCRIPTION	PART NO.
DIESEL ENGINE ASSEMBLY	



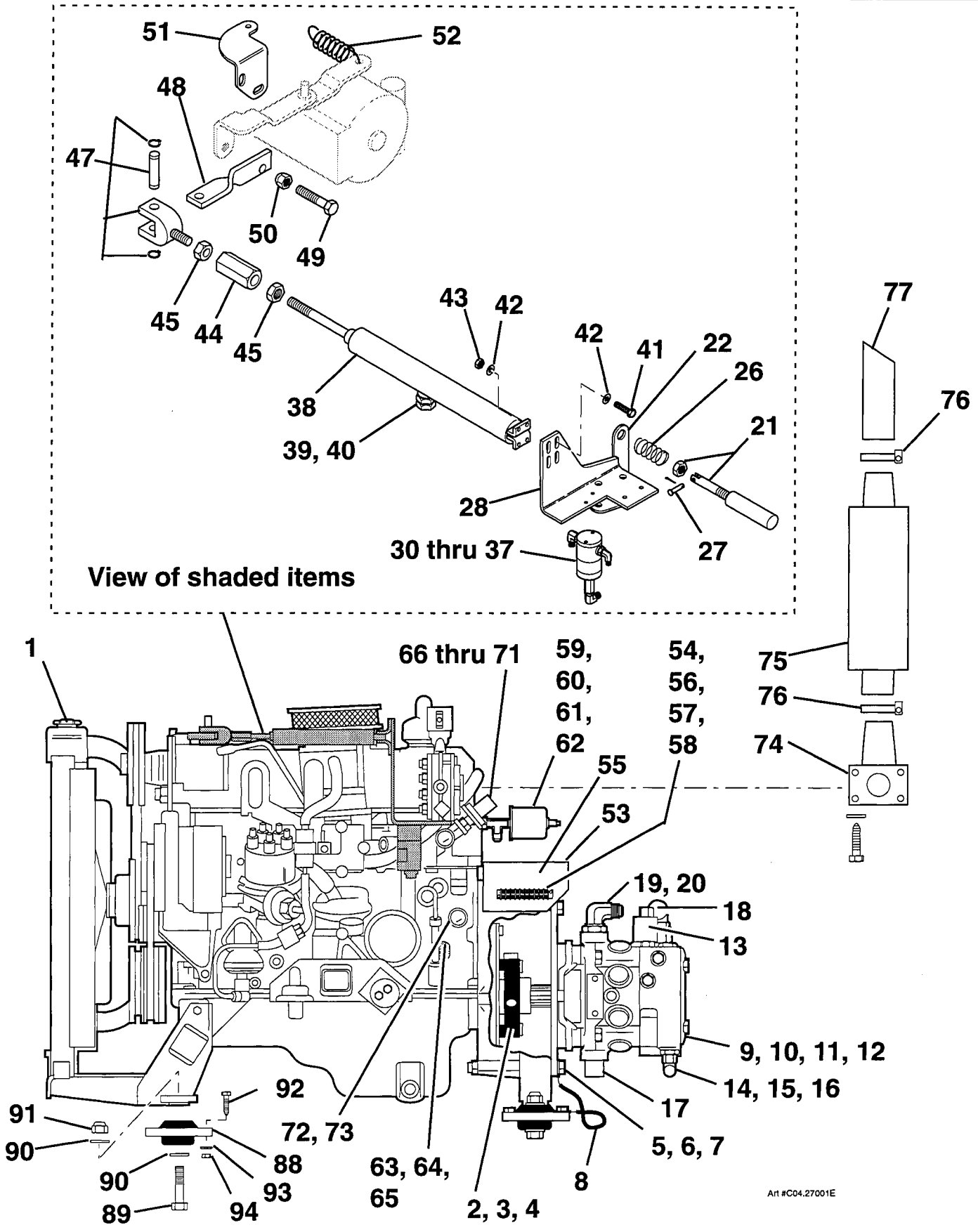
DESCRIPTION	PART NO.
DIESEL ENGINE ASSEMBLY	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			ENGINE GROUP (Ford LSG-423)	1
	3535800		MP/ RP Series with HPR40 Pump (Gasoline)	
	3531340		MP/ RP Series with HPR50 Pump (Gasoline)	
	3535810		MP/ RP Series with HPR40 Pump (Dual fuel)	
	3531350		MP/ RP Series with HPR50 Pump (Dual fuel)	
1			ENGINE ASSEMBLY (Ford LSG-423)	1
	09-017800		63 HP (47 Kw) liquid cooled gas four cylinder	
	09-023700		63 HP (47 Kw) liquid cooled dual fuel four cylinder	
2	02-011400		COUPLING ASSEMBLY (10" clutch)	1
3	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	6
4	07-065016		WASHER, HELICAL LOCK (3/8")	6
5	02-011500		PLATE, PUMP ADAPTER (SAE #5 hsg. to SAE "C" pump)	1
6	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4", Grade 5)	8
7	07-065016		WASHER, HELICAL LOCK (3/8")	8
8	03-074000		CABLE, BATTERY (Black, 9-3/4" [24.8 cm] long, 3/8" lugs)	1
9	See Plate . .	D08.13	PUMP, HYDRAULIC	1
10	07-004127		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/2", Grade 8)	4
11	07-065021		WASHER, HELICAL LOCK (5/8")	4
12	07-062021		WASHER, FLAT (5/8")	4
13	01-013700		VALVE, SOLENOID (2 way) (Pump unloading)	1
14	06-195700		90° FITTING, FLANGED (1-1/2" suction to 2" SAE)	1
15	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	4
16	07-065018		WASHER, HELICAL LOCK (1/2")	4
17	06-202100		FITTING, FLANGED (4 bolt SAE #1, LI-16-16S-30)	1
18	06-045600		90° ELBOW, STRAIGHT THREAD (12-16 C50X-S)	A.R.
19	06-044700		90° ELBOW, STRAIGHT THREAD (6-8 C50X-S)	1
20	06-039300		ADAPTER, "O"-RING TO 37° (4 F50X-S)	1
21			CYLINDER, CHOKE SOLENOID (12 Volt DC)	1
	03-414400		Earlier version. 3/4" (19 mm) dia. x 1-7/8" (48 mm) long	
	03-452100		Later version. 1" (25 mm) dia. x 2-3/8" (60 mm) long	
22			BRACKET, CHOKE SOLENOID	1
	2158330		Flat bracket, used until January, 1993	
	2311170		"L" shaped bracket, used since January, 1993 (shown)	
23	07-011343		MACHINE SCREW, PAN HEAD (#8-32 x 1/2", Grade 2)	
			(for mounting Bracket 2158330)	3
24	07-065009		WASHER, HELICAL LOCK (#8) (for Bracket 2158330)	3
25	07-062009		WASHER, FLAT (#8) (for mounting Bracket 2158330)	3
26	10-110600		SPRING, CHOKE RETURN	1
27	07-075414		ROLL PIN (1/8" x 1")	1
28	2113350		BRACKET, THROTTLE (comes with engine)	1
29			SCREW (Bracket to engine)	2

TITLE ENGINE ASSEMBLY, FORD LSG-423 (PLATE 1 OF 3)

PLATE NO. C04.27 | **SIMON AERIALS INC.** NEW 04 AUG., 1994 | PART NO.



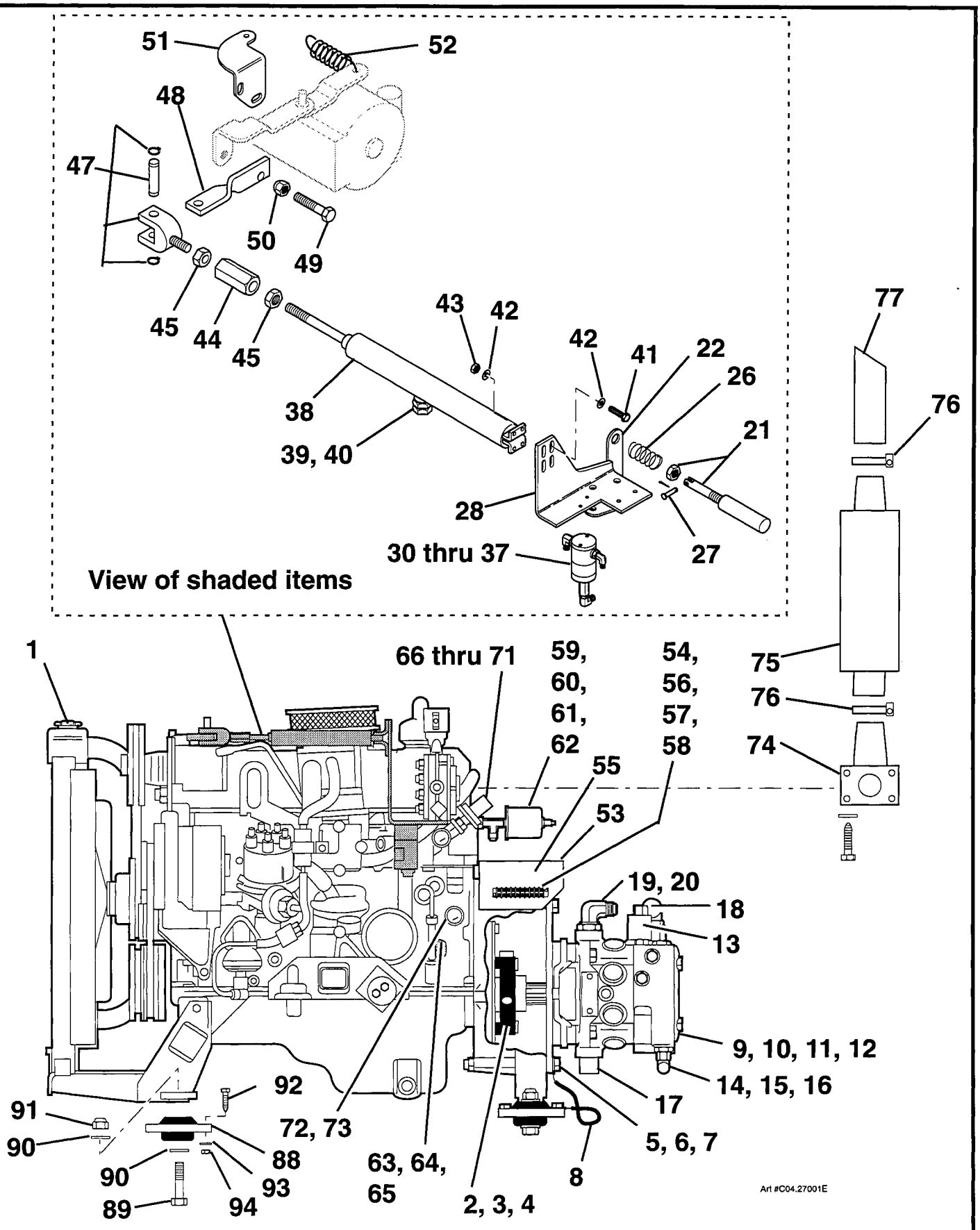
TITLE	ENGINE ASSEMBLY, FORD LSG-423 (PLATE 1 OF 3)		
SIMON AERIALS INC.	NEW 04 AUG., 1994	PART NO.	PLATE NO. C04.27

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
30	09-000405		VALVE, ENGINE SOLENOID (Throttle advance)	1
31	06-198600		90° COMPRESSION FITTING (169 CA-3-4) (1/4" NPT to 3/16" tubing)	3
32	11-030506		BUSHING, REDUCER (1/4" x 1/8")	A.R.
33			ELBOW	1
34	07-008310		CAP SCREW, SOCKET HEAD (#10-32 x 3/4", Grade 5)	2
35	07-065011		WASHER, HELICAL LOCK (#10)	2
36	07-062009		WASHER, FLAT (#8)	2
37	07-060014		WASHER, FLAT (1/4" SAE)	2
38	09-028100		CYLINDER, THROTTLE (3 position, double acting)	1
39	01-072300		VENT, CYLINDER BREATHER (1/8" NPT)	2
40	06-199300		FITTING, COMPRESSION (Straight)	1
41	07-003004		CAP SCREW, HEX HEAD (1/4-20 x 7/8", Grade 5)	4
42	07-060014		WASHER, FLAT (1/4" SAE)	8
43	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	4
44	11-040008		COUPLER, THREADED ROD (5/16"-24 x 1-1/8")	1
45	07-047115		NUT, JAM (5/16"-24)	2
46	07-090161		SET SCREW, SOCKET (5/16"-24 x 1", cup point)	1
47	09-028101		CLEVIS, CYLINDER (includes pin and retaining rings)	1
48	2112370		LINK, THROTTLE (comes with engine)	1
49			SCREW (Link to governor lever)	1
50			NUT (Link to governor lever)	1
51	2321090		BRACKET, THROTTLE SPRING	1
52	10-168500		SPRING, THROTTLE RETURN EXTENSION	1
53	2307030		BRACKET, TERMINAL STRIP	1
54	03-068000		STRIP, TERMINAL (10 contact)	1
55	03-467500		RELAY (Single pole, single throw, 12 Volt DC, normally open, sealed)	1
56	07-011334		MACHINE SCREW, ROUND HEAD (#6-32 x 3/4")	2
57	07-050007		NUT, STOP (#6-32, Grade 5)	2
58	07-062009		WASHER, FLAT (#8)	1
59	09-052200		SENDER, OIL PRESSURE GAUGE (0-100 PSI)	1
60	06-199300		FITTING, COMPRESSION (Straight)	1
61	06-074600		TEE, STRAIGHT TO PIPE THREAD (2 MRO-S)	1
62	06-070600		REDUCER, PIPE THREAD (4-2 PTR-S)	1
63	06-199300		FITTING, COMPRESSION (Straight)	1
64	06-081300		45° ELBOW, STRAIGHT TO PIPE THREAD (2 CD45-S)	1
65	06-201000		FITTING, COMPRESSION (209 P-6-2)	1
66			SWITCH, OIL PRESSURE (comes with engine)	1
67	09-049500		SWITCH, LOW PRESSURE (2 pole, normally open, 4 PSI, 1/8 TD)	1

TITLE ENGINE ASSEMBLY, FORD LSG-423 (PLATE 2 OF 3)

PLATE NO. C04.27 | **SIMON AERIALS INC.** NEW 04 AUG., 1994 | PART NO.



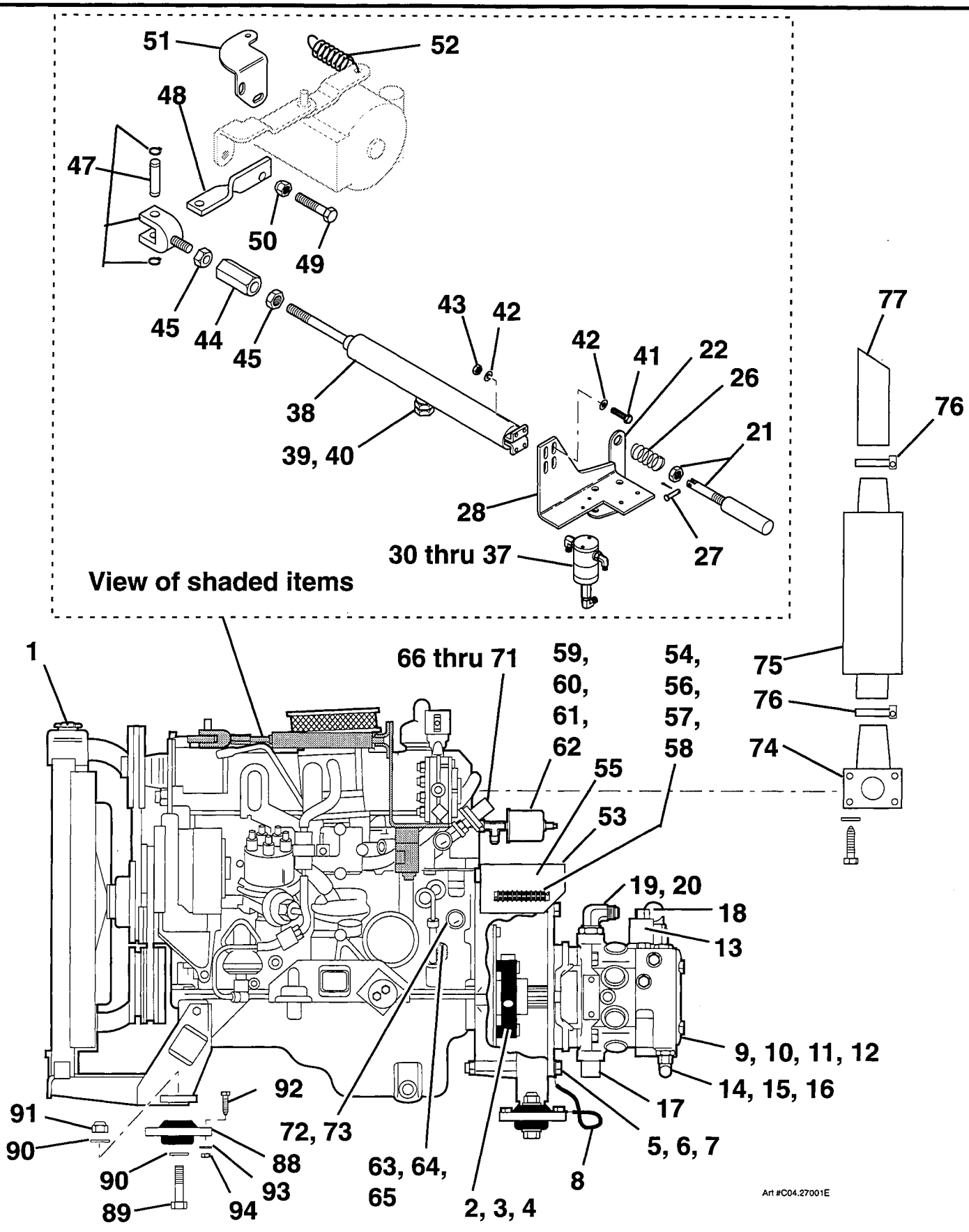
TITLE	ENGINE ASSEMBLY, FORD LSG-423 (PLATE 2 OF 3)		
SIMON AERIALS INC.	NEW 04 AUG., 1994	PART NO.	PLATE NO. C04.27

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
68	06-070600		REDUCER, PIPE THREAD (4-2 PTR-S)	1
69	06-074700		TEE, STRAIGHT TO PIPE THREAD (4 MRO-S)	1
70	07-040111		NUT, HEX (#10-32, Grade 5)	2
71	07-065011		WASHER, HELICAL LOCK (#10)	1
72			SWITCH, WATER TEMPERATURE (comes with engine)	1
73	07-092200		NUT, HEX (#8-32)	2
74	2328140		ELBOW, EXHAUST (used with muffler 09-055100)	1
	2301640		ELBOW, EXHAUST (used with muffler 09-054900)	1
75			MUFFLER, ENGINE EXHAUST	1
	09-055100		Muffler body is 15" (381 mm) long (latest version)	1
	09-054900		Muffler body is 9-1/2" (241 mm) long (later version)	1
	09-022000		Muffler body is 23" (584 mm) long (earlier version)	1
76	09-015400		CLAMP, MUFFLER (2")	1
77	2328150		PIPE, EXHAUST (used with muffler 09-055100)	1
78	03-088300		WIRE, ELECTRICAL (Blue, #14 AWG) (Bulk item)	
			(25 Ft [7.6 M] required this application)	A.R.
79	03-088400		WIRE, ELECTRICAL (Black, #14 AWG) (Bulk item)	
			(1 Ft [30 cm] required this application)	A.R.
80	03-466300		WIRE, ELECTRICAL (Red, #10 AWG stranded) (Bulk item)	
			(2 Ft [61 cm] required this application)	A.R.
81	07-039004		NUT, HEX (M 6)	1
82	07-066004		WASHER, HELICAL LOCK (6 mm)	1
			These items were used on some earlier **Dual Fuel** versions:	
83	09-028800		VALVE, PROPANE SHUTOFF (Solenoid operated)	1
84	09-023705		CONVERTER, PROPANE (Vaporizer)	1
85	09-017100		VALVE, GAS SHUTOFF	1
			For versions with gauge panel mounted **on engine**:	
86	10-034200		GAUGE, OIL PRESSURE	1
87	03-030400		AMMETER	1
			The following items **are not** part of the engine assembly:	
88	09-006500		MOUNT, ENGINE	4
89	07-004095		CAP SCREW, HEX HEAD (1/2"-13 x 3-1/2", Grade 8)	4
90	07-061018		WASHER, FLAT (1/2" SAE)	8
91	07-058400		NUT, HEX LOCK (1/2"-13, Grade 8)	4
92	07-003047		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 5)	8
93	07-062016		WASHER, FLAT (3/8")	17
94	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	8
89	09-015000		CLAMP, HOSE (Suction line) (2-1/2")	4
90	09-004600		CLAMP, WORM (1/4" to 5/8")	2

TITLE ENGINE ASSEMBLY, FORD LSG-423 (PLATE 3 OF 3)

PLATE NO.		PART NO.
C04.27	**SIMON AERIALS INC.** NEW 04 AUG., 1994	



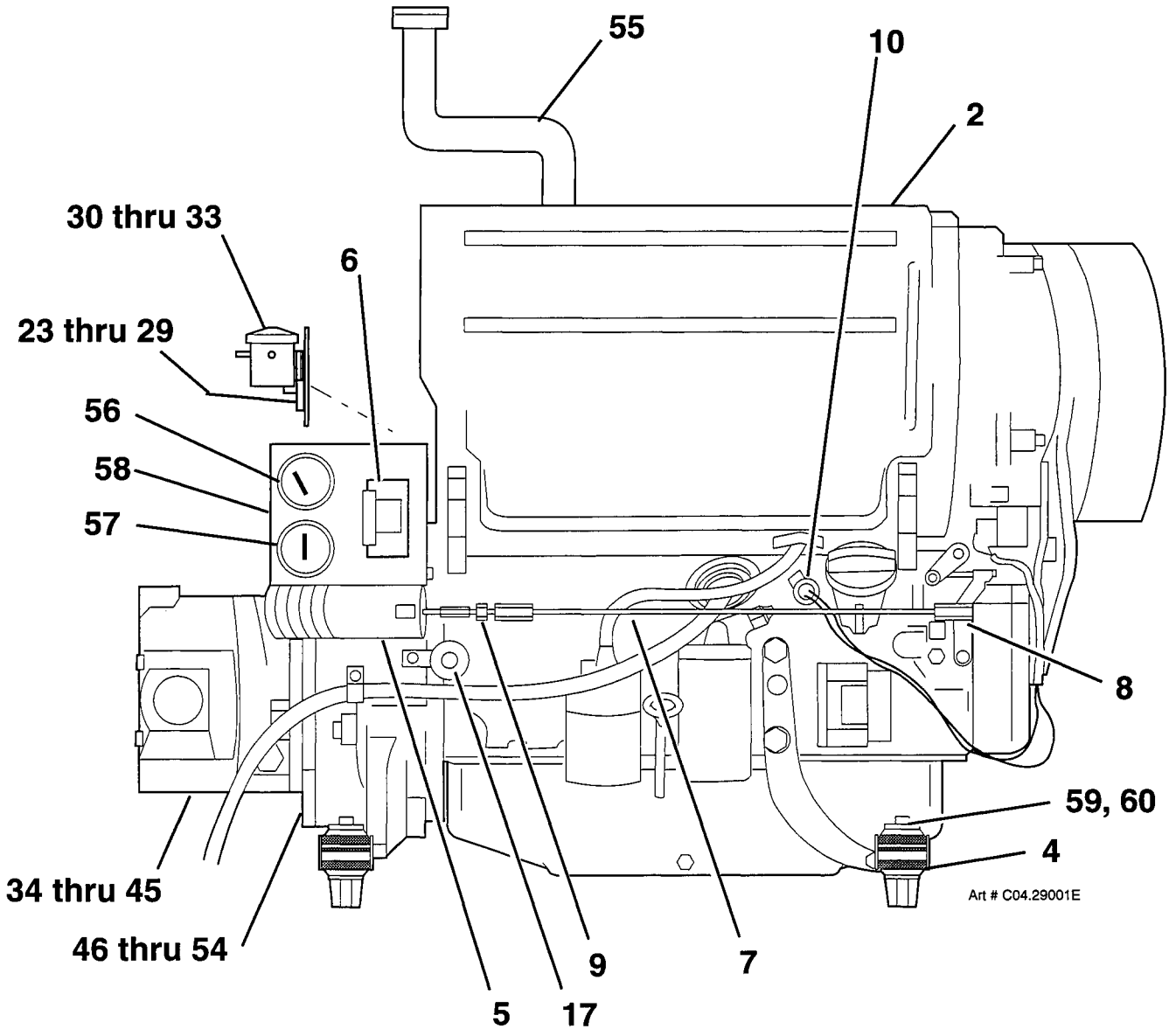
TITLE	ENGINE ASSEMBLY, FORD LSG-423 (PLATE 3 OF 3)		
SIMON AERIALS INC.	NEW 04 AUG., 1994	PART NO.	PLATE NO. C04.27

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			ENGINE ASSEMBLY (Deutz Model F4L1011)	
	3532270		with HPR 50 Pump (**not for use** with water glycol fluid)	1
	3525660		with PAVC 65 Pump (**for use** with water glycol fluid)	1
2	09-046300		ENGINE, DIESEL (Deutz Model F4L1011)	1
3	09-044801		SOLENOID, FUEL SHUTDOWN (comes with engine)	1
4	- - -		MOUNT, ENGINE (comes with engine)	4
5	03-469400		SOLENOID, THROTTLE (does not include module)	1
6	03-456803		MODULE, THROTTLE SOLENOID	1
7	03-469402		ROD, LINKAGE	1
8	03-469401		BALL JOINT (Straight)	1
9	03-469405		BALL JOINT (90°)	1
10			SWITCH, OIL PRESSURE (comes with engine)	1
11	2190310		BRACKET, MOUNTING (Oil pressure sending unit)	1
12	07-003004		CAP SCREW, HEX HEAD (1/4"-20 x 7/8", Grade 5)	1
13	07-060014		WASHER, FLAT (1/4", SAE)	2
14	07-050014		NUT, LOCK (1/4"-20, Grade 5)	1
15	06-074600		TEE, STRAIGHT/ PIPE THREAD ADAPTER (2 MRO-S)	1
16	06-199300		FITTING, COMPRESSION (Straight)	2
17	09-052200		SENDING UNIT, OIL PRESSURE	1
18	05-081900		FUEL LINE (5/16") [Bulk item, order as needed. 9" (22.9 cm) needed this application]	A.R.
19	09-004600		CLAMP, WORM (1/4" to 5/8")	2
20	07-062016		WASHER, FLAT (3/8")	2
21	06-084600		ELBOW, PIPE THREAD (2 DD-S)	1
22	05-082200		OIL PRESSURE LINE (3/16") [Bulk item, order as needed. 16" (40.6 cm) needed this application]	A.R.
23	2169790		BRACKET, TERMINAL STRIP MOUNTING	1
24	07-005184		CAP SCREW, HEX HEAD (M10 x 25 mm, Grade 8.8)	3
25	07-066006		WASHER, LOCK (10 mm)	3
26	07-060016		WASHER, FLAT (3/8", SAE)	3
27	03-068000		BLOCK, TERMINAL (10 station)	1
28	07-011334		MACHINE SCREW, ROUND HEAD (#6 32 x 3/4")	2
29	07-050007		NUT, STOP (#6-32, Grade 5)	2
30	03-051300		RELAY (Single pole, single throw)	1
31	07-003002		CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5)	2
32	07-060014		WASHER, FLAT (1/4", SAE)	2
33	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2

TITLE ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL (PLATE 1 OF 3)

PLATE NO.			PART NO.
C04.29	**SIMON AERIALS INC.**	REV. 27 JAN., 1994	



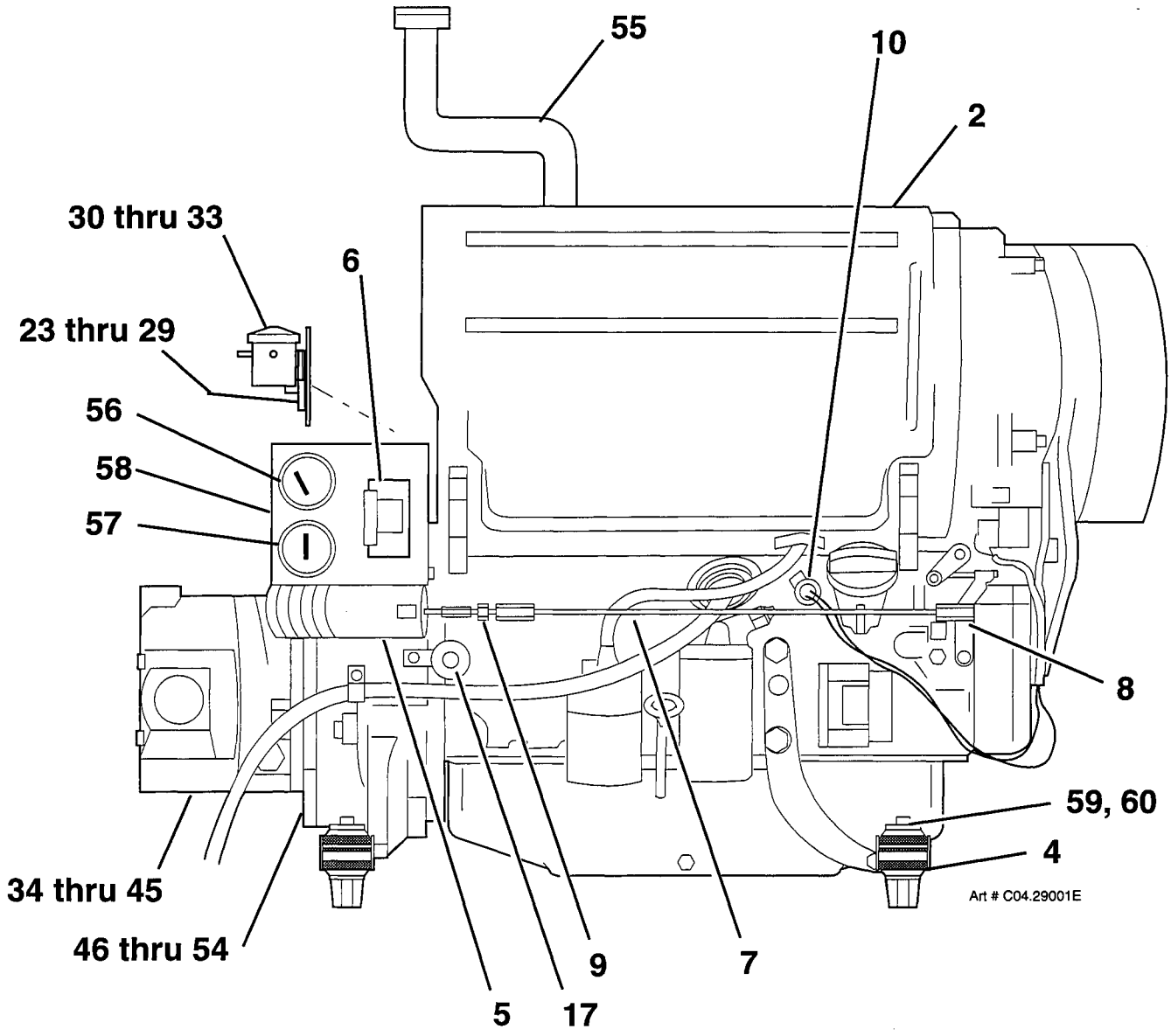
TITLE	ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL (PLATE 1 OF 3)		
SIMON AERIALS INC. REV. 27 JAN., 1994		PART NO.	PLATE NO. C04.29

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
34	See Index .	D08.--	PUMP, HYDRAULIC	1
35	07-003126		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/4", Grade 5)	4
36	07-060021		WASHER, FLAT (5/8")	4
37	07-065021		WASHER, HELICAL LOCK (5/8")	4
38			90° FITTING, FLANGED	
	06-195700		For HPR 50 pump (1-1/2" suction to 2" SAE)	1
39	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	4
40	07-065018		WASHER, HELICAL LOCK (1/2")	4
41	06-202100		FITTING, FLANGED (LI-16-16S-30)	1
42	06-045600		90° ELBOW, STRAIGHT THREAD (12-16 C50X-S)	2
43	06-039300		ADAPTER, "O"-RING TO 37° (4 F50X-S)	1
44	06-044800		90° ELBOW, STRAIGHT THREAD (8 C50X-S)	1
45	01-013700		VALVE, SOLENOID (2-way) (Pump unloading)	1
46			ADAPTER, PUMP	
	02-011500		Use with HPR 50 Pump [1/2" (13 mm) thick].	
			SAE #5 (8 hole, 12-3/8" pilot) flywheel housing to "C" (2 hole, 5" pilot) pump mount	1
	2165070		Use with PAVC 65 Pump [1.68" (43 mm) thick spacer].	
			SAE #5 (8 hole, 12-3/8" pilot) flywheel housing to "C" (2 hole, 5" pilot) pump mount	1
47			CAP SCREW, HEX HEAD	
	07-005184		M10 x 25 mm, Grade 8.8 (with HPR 50 Pump)	8
	07-005191		M10 x 60 mm, Grade 8.8 (with PAVC 65 Pump)	8
48	07-066006		WASHER, LOCK (10 mm)	8
49	03-074000		CABLE, GROUND (Black, 9-3/4" (25 cm) long]	1

TITLE ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL (PLATE 2 OF 3)

PLATE NO.			PART NO.
C04.29	**SIMON AERIALS INC.**	REV. 27 JAN., 1994	

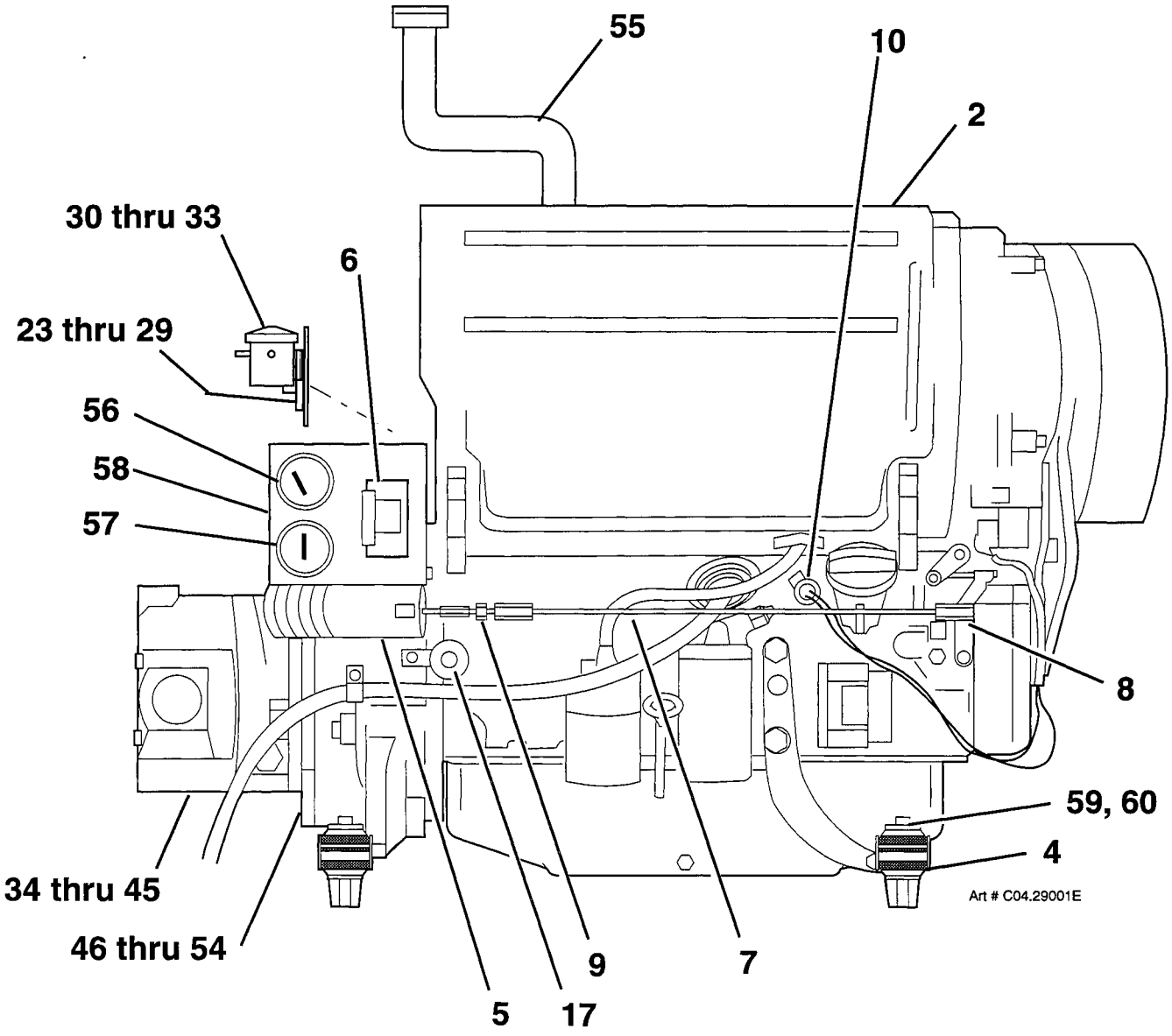


TITLE	ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL (PLATE 2 OF 3)		
SIMON AERIALS INC. REV. 27 JAN., 1994		PART NO.	PLATE NO. C04.29

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
50			COUPLING ASSEMBLY, PUMP	
	02-043700		• Used with 02-011500 Pump Adapter for HPR 50 Pump. (Replaces 02-033900)	1
	02-033900		• **Obsolete.** Use 02-043700. 4 segment type, used with 02-011500 Pump Adapter for HPR 50 Pump. 6 hole, 8.5" pilot, 14 tooth spline	1
	02-042000		• 3 segment type, used with PAVC 65 Pump. Consists of (1) hub & (1) adapter from couplings below.	1
51	02-011400		COUPLING ASSEMBLY, PUMP (14 tooth spline) 3 segment type. Use hub portion of this coupling only, with Flywheel Adapter from Item 52.	1
52	02-025600		COUPLING ASSEMBLY, PUMP 3 segment type (6 hole, 8.5" pilot, 13 tooth spline). Use flywheel adapter portion of this coupling only, with Hub from Item 51.	1
53			CAP SCREW, HEX HEAD	
	07-005149		M8 x 25 mm, Grade 8.8 (for HPR 50 Pump)	6
	07-005147		M8 x 16 mm, Grade 8.8 (for PAVC 65 Pump)	6
54	07-066005		WASHER, LOCK (8 mm)	6
55	09-056900		PIPE, EXHAUST	1
			The following items are used when gauges are not mounted on the ground control electrical box:	
56	03-030400		AMMETER (50 Amp)	1
57	10-034200		GAUGE, OIL PRESSURE (2-1/2" dial; with mounting bracket)	1
58	2171050		PANEL, GAUGE	1
			The following items **are not** part of the Engine Assembly:	
59	07-004078		CAP SCREW, HEX HEAD (7/16"-14 x 6-1/2", Grade 8)	4
60	07-050017		NUT, HEX LOCK (7/16"-14)	4

TITLE	ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL (PLATE 3 OF 3)	
PLATE NO. C04.29	**SIMON AERIALS INC.** REV. 27 JAN., 1994	PART NO.

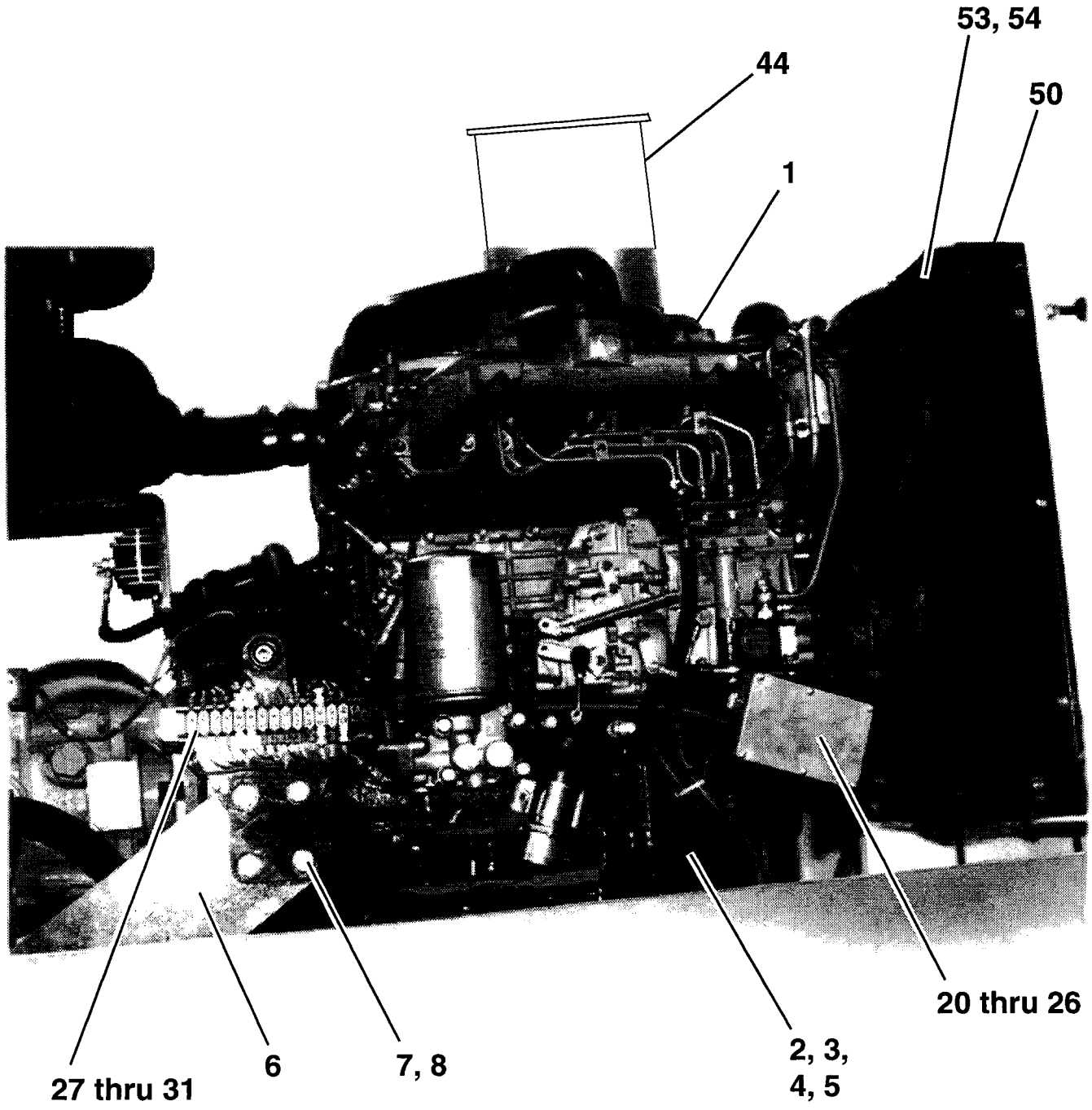


TITLE	ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL (PLATE 3 OF 3)		
SIMON AERIALS INC.	REV. 27 JAN., 1994	PART NO.	PLATE NO. C04.29

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	09-054000		ENGINE ASSEMBLY (Isuzu 4BD1 Turbo Diesel)	1
2	2199460		BRACKET, ENGINE FRONT MOUNTING (Right)	1
	2199470		BRACKET, ENGINE FRONT MOUNTING (Left)	1
3	07-093700		CAP SCREW, HEX HEAD (M10-1.25 x 30 mm, Grade 8.8)	6
4	07-090071		CAP SCREW, HEX HEAD (M10-1.25 x 40 mm, Grade 8.8)	2
5	07-066006		WASHER, LOCK (M10)	8
6	2199490		BRACKET, ENGINE REAR MOUNTING (Right)	1
	2199500		BRACKET, ENGINE REAR MOUNTING (Left)	1
7	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	8
8	07-065018		WASHER, HELICAL LOCK (1/2")	8
9	01-218100		PUMP ASSEMBLY, HYDRAULIC (HPR 100)	1
10	02-019100		PLATE, PUMP MOUNTING (SAE 4C)	1
11	07-004127		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/2", Grade 8)	4
12	07-065021		WASHER, HELICAL LOCK (5/8")	4
13	07-060021		WASHER, FLAT (5/8")	4
14	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4")	12
15	07-065016		WASHER, HELICAL LOCK (3/8")	12
16	02-037000		COUPLING (Star hub CK-100, 48-13-14 Tooth)	1
17	02-036900		COUPLING (Element CK-100, SAE 10)	1
18	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4")	8
19	07-065016		WASHER, HELICAL LOCK (3/8")	8
20	2199530		BRACKET, THROTTLE MOUNTING	1
21	08-0608900		BUSHING	1
22	09-051200		ACTUATOR, THROTTLE	1
23	06-044700		ELBOW, STRAIGHT THREAD (6-8 C50X-S)	1
24	06-195700		FITTING, FLANGED (1-1/2" suction to 2" SAE 90°)	1
25	06-202100		FITTING, FLANGED (LI-16-16S-30)	1
26	06-039300		CONNECTOR, STRAIGHT THREAD (4 F50X-S)	1
27	2199480		BRACKET, TERMINAL STRIP (and Glow plug indicator brkt.)	1
28	03-468700		STRIP, TERMINAL (14 place)	1
29	07-011344		MACHINE SCREW, ROUND HEAD CROSS RECESS (#8-32 x 3/4")	1
30	07-011345		MACHINE SCREW, ROUND HEAD (#8-32 x 1")	1
31	07-050009		NUT, STOP (#8-32, Grade 5)	2
32			REGULATOR, VOLTAGE (Isuzu part)	1
33	07-003001		CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5)	2
34	07-065014		WASHER, HELICAL LOCK (1/4")	2
35	07-060014		WASHER, FLAT (1/4", SAE)	2

TITLE	ENGINE ASSEMBLY, ISUZU 4BD1 DIESEL (PLATE 1 0F 2)			
PLATE NO.	C04.33	**SIMON AERIALS INC.**	NEW 14 JUL., 1992	PART NO.

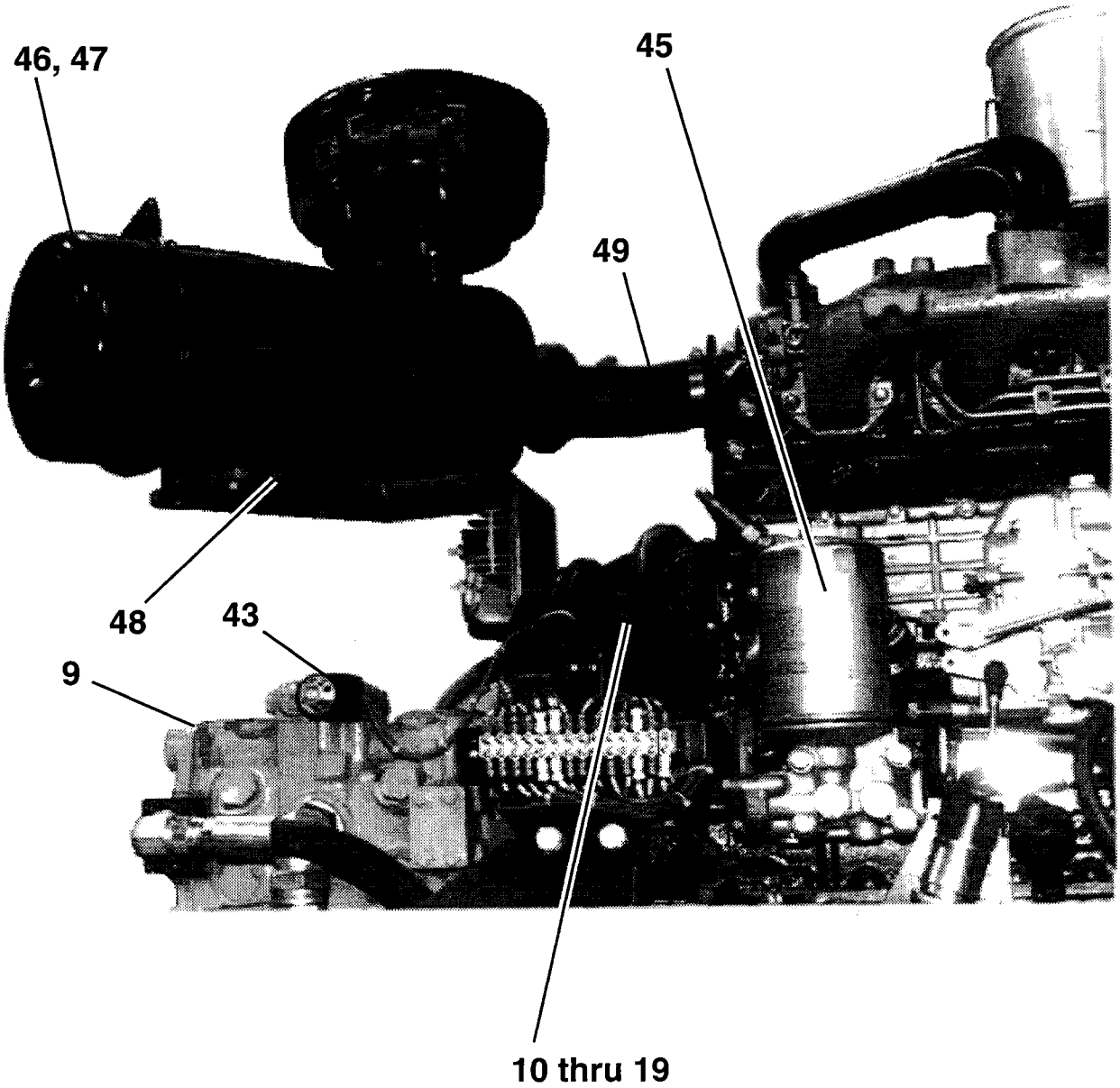


TITLE	ENGINE ASSEMBLY, ISUZU 4BD1 DIESEL (PLATE 1 0F 2)		
SIMON AERIALS INC.	NEW 14 JUL., 1992	PART NO.	PLATE NO. C04.33

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
36	10-061200		CLAMP (#12)	1
37			MOUNT, ENGINE	4
38			CAP SCREW, HEX HEAD	8
39			WASHER, FLAT	8
40			NUT, STOP	8
41			WASHER, FLAT	4
42			NUT, LUG	4
43	01-013700		VALVE, SOLENOID (2-way)	1
44			MUFFLER ASSEMBLY	1
45			ELEMENT, OIL FILTER (Isuzu part)	1
46			FILTER ASSEMBLY, AIR	1
47			ELEMENT, AIR FILTER	1
48			BRACKET, AIR CLEANER	1
49			HOSE, AIR INTAKE	1
50			RADIATOR ASSEMBLY (Isuzu part)	1
51			HOSE, RADIATOR (UPPER) (Isuzu part)	1
52			HOSE, RADIATOR (LOWER) (Isuzu part)	1
53			SHROUD, FAN (Isuzu part)	1
54			GUARD, FAN (Isuzu part)	1

TITLE	ENGINE ASSEMBLY, ISUZU 4BD1 DIESEL (PLATE 2 0F 2)		
PLATE NO. C04.33	**SIMON AERIALS INC.**	NEW 14 JUL., 1992	PART NO.



TITLE	ENGINE ASSEMBLY, ISUZU 4BD1 DIESEL (PLATE 2 0F 2)		
SIMON AERIALS INC.	NEW 14 JUL., 1992	PART NO.	PLATE NO. C04.33

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	3531160		ENGINE ASSEMBLY, DIESEL (Isuzu 4BD1 PW)	1
2	09-053800		ENGINE, DIESEL (Isuzu 4BD1 PW)	
			(83 HP [61.9 Kw] @ 2,800 RPM, liquid cooled 4 cyl.)	1
3	09-052200		SENDER, OIL PRESSURE GAUGE (0-100 PSI)	1
4			ELEMENT, OIL FILTER (Isuzu part)	1
5			REGULATOR, VOLTAGE (Isuzu part)	1
6	07-003001		CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5)	2
7	07-065014		WASHER, HELICAL LOCK (1/4")	2
8	07-060014		WASHER, FLAT (1/4", SAE)	2
9	10-061200		CLAMP, LOOP (#12)	1
10	02-037000		COUPLING (Star hub CK-100, 48-13-14 Tooth)	1
11	02-036900		COUPLING (Element CK-100, SAE #10)	1
12	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4")	8
13	07-065016		WASHER, HELICAL LOCK (3/8")	8
14	02-019100		PLATE, PUMP MOUNTING (SAE 4C)	1
15	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4")	12
16	07-065016		WASHER, HELICAL LOCK (3/8")	12
17	See Index .	D08. - -	PUMP ASSEMBLY, HYDRAULIC	1
18	07-004127		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/2", Grade 8)	4
19	07-065021		WASHER, HELICAL LOCK (5/8")	4
20	07-060021		WASHER, FLAT (5/8")	4
21	01-013700		VALVE, SOLENOID (2-way)	1
22	06-195700		FITTING, FLANGED (1-1/2" suction to 2" SAE 90°)	1
23	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	4
24	07-065018		WASHER, HELICAL LOCK (1/2")	4
25	06-202100		FITTING, FLANGED (LI-16-16S-30)	1
26	06-045600		90° ELBOW, STRAIGHT THREAD (12-16 C50X-S)	2
27	06-044700		90° ELBOW, STRAIGHT THREAD (6-8 C50X-S)	1
28	06-039300		ADAPTER, "O"-RING TO 37° (4 F50X-S)	1
29	2199490		BRACKET, ENGINE REAR MOUNTING (Right)	1
	2199500		BRACKET, ENGINE REAR MOUNTING (Left)	1
30	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	8
31	07-065018		WASHER, HELICAL LOCK (1/2")	8
32	2300410		BRACKET, ENGINE CONTROLS	1
33	03-468700		STRIP, TERMINAL (14 station)	1
34	07-011344		MACHINE SCREW, ROUND HEAD CROSS RECESS (#8-32 x 3/4", Grade 2)	2
35	07-050009		NUT, LOCK (#8-32, Grade 5)	2

TITLE ENGINE ASSEMBLY, ISUZU 4 BD1 (PLATE 1 OF 3)

PLATE NO.		PART NO.
C04.35	**SIMON AERIALS INC.** NEW 04 AUG., 1994	

THE ILLUSTRATION FOR THIS ENGINE IS NOT AVAILABLE AT THIS TIME

TITLE	ENGINE ASSEMBLY, ISUZU 4 BD1 (PLATE 1 OF 3)		
SIMON AERIALS INC. NEW 04 AUG., 1994		PART NO.	PLATE NO. C04.35

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
36	03-051300		RELAY (Single pole, single throw)	1
37	07-011343		MACHINE SCREW, PAN HEAD (#8-32 x 1/2", Grade 2)	1
38	07-050009		NUT, LOCK (#8-32, Grade 5)	1
39	07-062009		WASHER, FLAT (#8)	5
40	03-456900		SOLENOID, THROTTLE (with module)	
41	03-456803		MODULE, TIMER	1
42	09-016402		BALL JOINT (1/4"-28, straight)	1
43	09-016403		BALL JOINT (1/4"-28, 90°)	1
44	07-047114		NUT, JAM (1/4"-28, Grade 5)	3
45	2300620		BRACKET, ENGINE MOUNTING (Front)	1
46			CAP SCREW, HEX HEAD (M10-1.25, short)	6
47			CAP SCREW, HEX HEAD (M10-1.25, long)	2
48	07-066006		WASHER, LOCK (M10)	8
49			RADIATOR ASSEMBLY (Isuzu part)	1
50			HOSE, RADIATOR (UPPER) (Isuzu part)	1
51			HOSE, RADIATOR (LOWER) (Isuzu part)	1
52			SHROUD, FAN (Isuzu part)	1
53			GUARD, FAN (Isuzu part)	1
54	2327640		SUPPORT, RADIATOR	1
55	09-053500		MOUNT, RUBBER	2
56	09-053600		MOUNT, RUBBER	2
57	2300550		SUPPORT, RADIATOR	2
58			BRACKET, THROTTLE MOUNTING	1
59			BUSHING	1
60			ACTUATOR, THROTTLE	1
61			CAP SCREW, HEX HEAD	8
62			WASHER, FLAT	8
63			NUT, STOP	8
64			WASHER, FLAT	4
65			NUT, LUG	4
66			MUFFLER ASSEMBLY	1
67	09-003000		CLAMP, MUFFLER ("U"-bolt, 2-1/2")	2
68			FILTER ASSEMBLY, AIR	1
69			ELEMENT, AIR FILTER	1
70			BAND, AIR CLEANER MOUNTING	2
71			BRACKET, AIR CLEANER (see also # 102)	1
72			HOSE, AIR INTAKE	1

TITLE ENGINE ASSEMBLY, ISUZU 4 BD1 (PLATE 2 OF 3)

PLATE NO.		PART NO.
C04.35	**SIMON AERIALS INC.** NEW 04 AUG., 1994	

THE ILLUSTRATION FOR THIS ENGINE IS NOT AVAILABLE AT THIS TIME

TITLE	ENGINE ASSEMBLY, ISUZU 4 BD1 (PLATE 2 OF 3)		
SIMON AERIALS INC. NEW 04 AUG., 1994		PART NO.	PLATE NO. C04.35

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
73	03-087500		WIRE, ELECTRICAL (#16 AWG, Blue, stranded) (Bulk item, order as needed. 2 Ft [.6 M] needed here)	A.R.
74	03-087600		WIRE, ELECTRICAL (#16 AWG, Black, stranded) (Bulk item, order as needed. 2 Ft [.6 M] needed here)	A.R.
75	03-087800		WIRE, ELECTRICAL (#16 AWG, Red) (Bulk item, order as needed. 2 Ft [.6 M] needed here)	A.R.
76	03-088300		WIRE, ELECTRICAL (#14 AWG, Blue) (Bulk item, order as needed. 50 Ft [15.2 M] needed here)	A.R.
77	03-088400		WIRE, ELECTRICAL (#14 AWG, Black) (Bulk item, order as needed. 4 Ft [1.26 M] needed here)	A.R.
78	03-455300		WIRE, ELECTRICAL (#10 AWG, Black, stranded) (Bulk item, order as needed. 1 Ft [.3 M] needed here)	A.R.
79	03-457200		WIRE, ELECTRICAL (#10 AWG, Blue, stranded) (Bulk item, order as needed. 12 Ft [3.7 M] needed here)	A.R.
80	03-466300		WIRE, ELECTRICAL (#10 AWG, Red, stranded) (Bulk item, order as needed. 8 Ft [2.4 M] needed here)	A.R.
81	03-092200		COUPLING, INSULATED (Male, blue nylon, #14-16 AWG)	5
82	03-092300		COUPLING, INSULATED (Female, blue nylon, 14-16 AWG)	5
83	03-094600		TERMINAL, RING (Blue, #14-16 AWG, #10 stud)	6
84	03-094800		TERMINAL, RING (Blue, #14-16 AWG, 3/8" stud)	1
85	03-095400		TERMINAL, RING (Blue, #10-12 AWG, #10 stud)	3
86	03-095600		TERMINAL, RING (Blue, #10-12 AWG, 1/4" stud)	5
87	03-095700		TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud)	9
88	03-091200		TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud)	19
89	03-091700		TERMINAL, SPADE (Locking, #10-12 AWG, #6 stud)	5
90	07-008356		CAP SCREW, SOCKET HEAD (#10-24 x 1-3/4", Grade 8)	2
91	07-050011		NUT, LOCK (#10-24, Grade 2)	2
92	07-003002		CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5)	4
93	07-003004		CAP SCREW, HEX HEAD (1/4"-20 x 7/8", Grade 5)	2
94	07-050014		NUT, LOCK (1/4"-20, Grade 5)	6
95	07-060014		WASHER, FLAT (1/4", SAE)	4
96	07-065014		WASHER, HELICAL LOCK (1/4")	1
97	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	4
98	07-060018		WASHER, FLAT (1/2", SAE)	4
			The following items **are not** included as part of Engine Assembly 3531160:	
99	09-018300		PRECLEANER (3" I.D.)	1
100	09-021500		REDUCER, HUMP (2-3/4" to 3")	1
101	09-041800		ELBOW, INTAKE (Rubber) (Deutz)	1
102	2154230		BRACKET, AIR CLEANER	1

TITLE ENGINE ASSEMBLY, ISUZU 4 BD1 (PLATE 3 OF 3)

THE ILLUSTRATION FOR THIS ENGINE IS NOT AVAILABLE AT THIS TIME

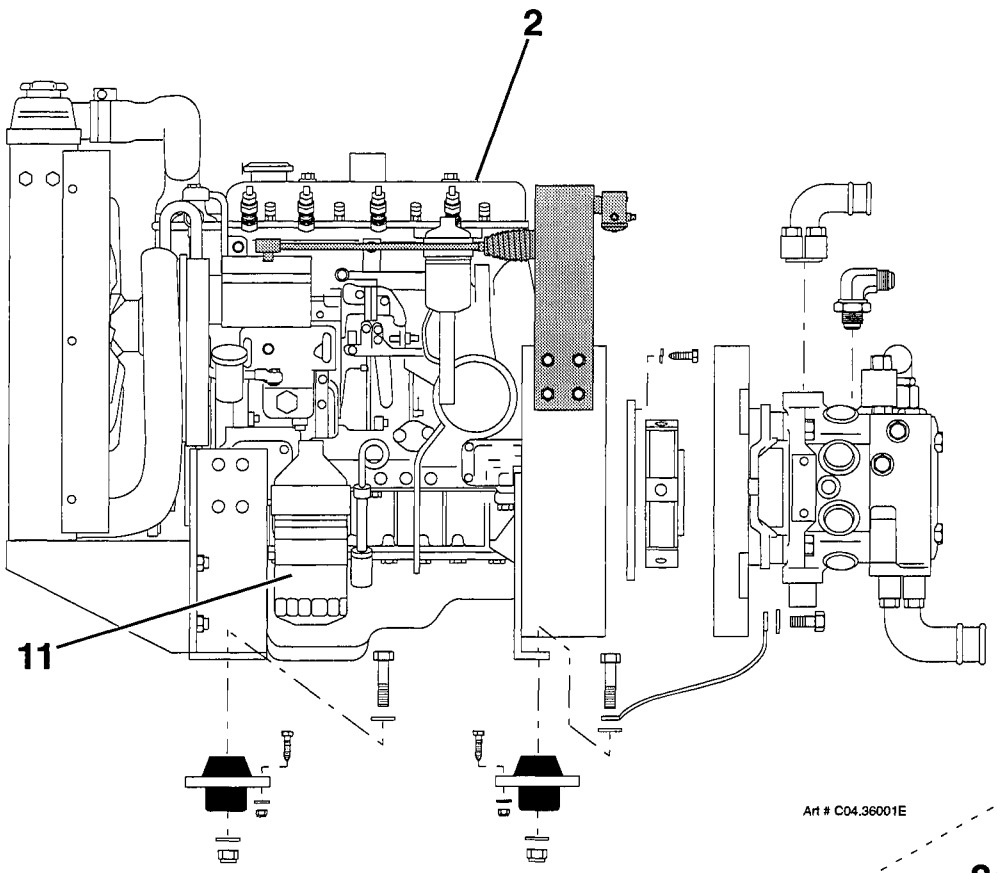
TITLE	ENGINE ASSEMBLY, ISUZU 4 BD1 (PLATE 3 OF 3)		
SIMON AERIALS INC.	NEW 04 AUG., 1994	PART NO.	PLATE NO. C04.35

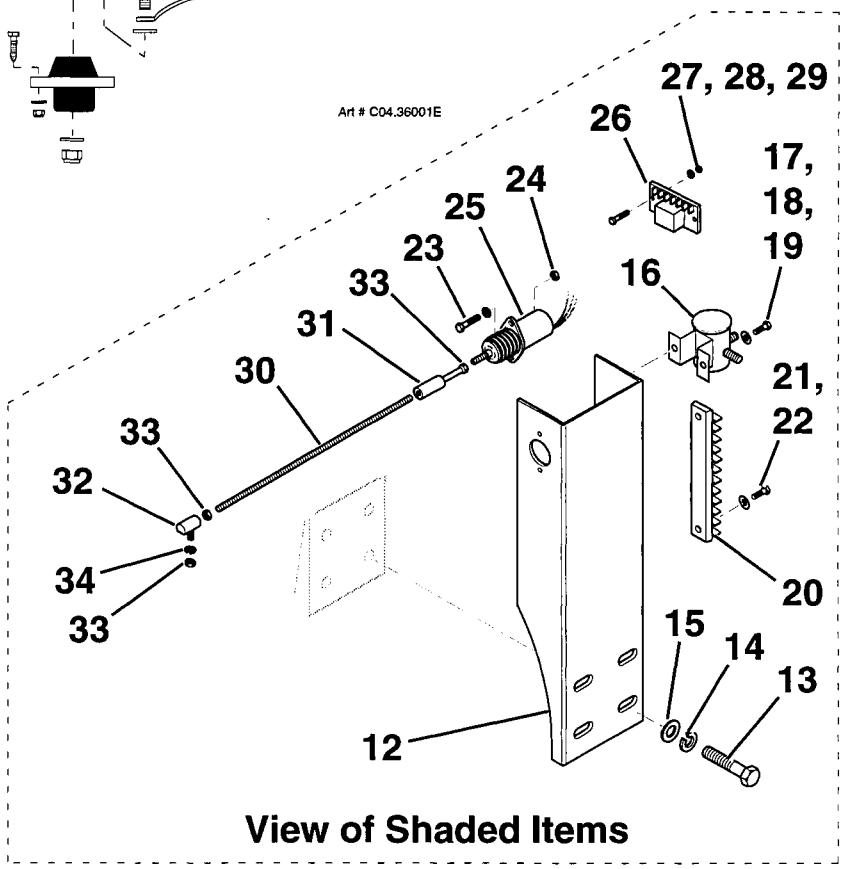
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			ENGINE ASSEMBLY, DIESEL (Detroit Diesel/ Perkins 4.236)	1
	Call Simon		Standard version	
	353 7940		With remote mounted radiator (Special application)	
2	09-058000		ENGINE, DIESEL (Detroit Diesel/ Perkins 4.236) (70 HP [52.2 Kw] @ 2,800 RPM, liquid cooled 4 cyl.)	1
3	09-058200		ALTERNATOR (12 Volt, 30 Amp, fully enclosed)	1
4	09-058300		REGULATOR, ALTERNATOR	1
5	09-058400		PULLEY, ALTERNATOR	1
6	07-066005		WASHER, LOCK (8 mm) (Fan mounting)	4
7	09-034000		SWITCH, COOLANT TEMPERATURE SENDING	1
8	09-052200		SENDER, OIL PRESSURE GAUGE (0-100 PSI)	1
9	06-081300		45° STREET ELBOW (1/8 CD45-S)	1
10	09-047800		SWITCH, OIL PRESSURE GAUGE (15 PSI, 1/8" NPT)	1
11			ELEMENT, OIL FILTER (Detroit Diesel/ Perkins part)	1
12	215 8340		BRACKET, ACCESSORY PANEL	1
13	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	4
14	07-065018		WASHER, HELICAL LOCK (1/2")	4
15	07-060018		WASHER, FLAT (1/2", SAE)	4
16	03-051300		RELAY (Single pole, single throw)	1
17	07-003002		CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5)	4
18	07-050014		NUT, LOCK (1/4"-20, Grade 5)	4
19	07-060014		WASHER, FLAT (1/4", SAE)	4
20	03-068000		STRIP, TERMINAL (10 station)	1
21	07-011334		MACHINE SCREW, ROUND HEAD CROSS RECESS (#6-32 x 3/4", Grade 2)	2
22	07-050007		NUT, STOP (#6-32, Grade 5)	2
23	07-003002		CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5)	2
24	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2
25	03-456800		SOLENOID, THROTTLE (with module)	
26	03-456803		MODULE, TIMER	1
27	07-008354		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8)	2
28	07-062009		WASHER, FLAT (#8)	2
29	07-050011		NUT, LOCK (#10-24, Grade 2)	2
30	11-008005		ROD, THREADED (1/4"-28, Grade 5) (3 Ft [.91 M] long piece. Cut to fit. 13" [.33 M] long piece needed here.)	1
31	09-016402		BALL JOINT (1/4"-28, straight)	1
32	09-016403		BALL JOINT (1/4"-28, 90°)	1
33	07-047114		NUT, JAM (1/4"-28, Grade 5)	3
34	07-065014		WASHER, HELICAL LOCK (1/4")	1

TITLE ENGINE ASSEMBLY, DETROIT DIESEL (PERKINS) 4.236 (PLATE 1 OF 4)

PLATE NO. C04.36	**SIMON AERIALS INC.** NEW 22 NOV., 1994	PART NO.





View of Shaded Items

TITLE ENGINE ASSEMBLY, DETROIT DIESEL (PERKINS) 4.236 (PLATE 1 OF 4)

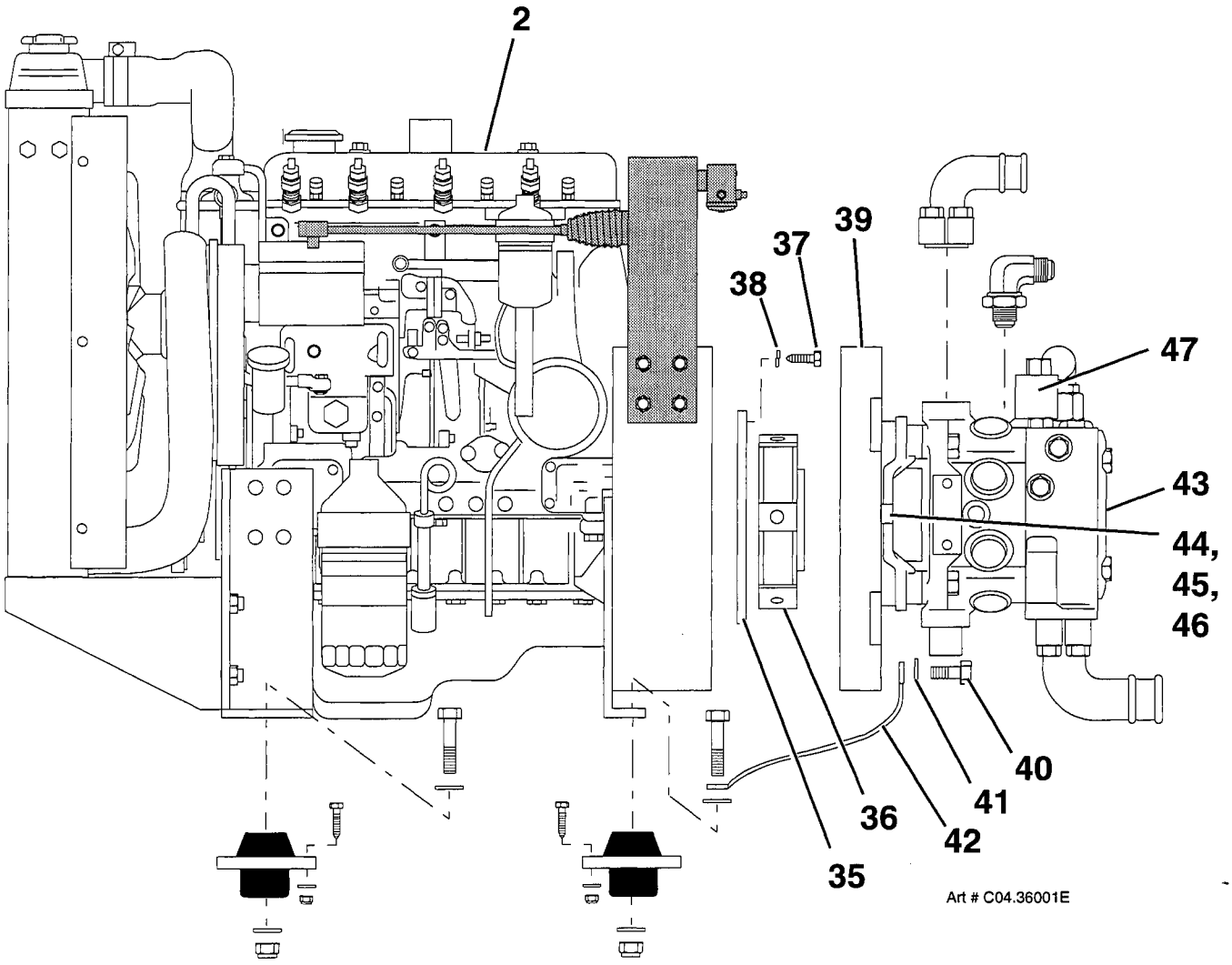
SIMON AERIALS INC.	NEW 22 NOV., 1994	PART NO.	PLATE NO. C04.36

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
35	02-012800		ADAPTER PLATE, COUPLING	1
36	02-012600		COUPLING (Model "1", size "30")	1
37	07-008305		CAP SCREW, SOCKET HEAD (3/8"-24 x 1")	8
38	07-065016		WASHER, HELICAL LOCK (3/8")	8
39	210 8660		ADAPTER, PUMP MOUNTING	1
40	07-003051		CAP SCREW, HEX HEAD (3/8"-16 x 2-1/2")	12
41	07-065016		WASHER, HELICAL LOCK (3/8")	12
42	03-074000		CABLE, GROUND (Black, 9-3/4" [25 cm] long, 3/8" lugs)	
43	See Index . .	D08. - -	PUMP ASSEMBLY, HYDRAULIC	1
44	07-004127		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/2", Grade 8)	4
45	07-065021		WASHER, HELICAL LOCK (5/8")	4
46	07-060021		WASHER, FLAT (5/8")	4
47	01-013700		VALVE, SOLENOID (2-way)	1
48	06-196900		90° FITTING, SUCTION (Flanged, 2" to 2") (ORFC 32-90)	1
49	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	4
50	07-065018		WASHER, HELICAL LOCK (1/2")	4
51	06-202100		FITTING, FLANGED (LI-16-16S-30) (obsolete, replaced by 06-213800 and 06-213900)	1
	06-213900		STEM, ADAPTER (with kit 06-213800, replaces 06-202100)	1
52	06-213800		FLANGE/ ADAPTER KIT (includes two flange halves and mounting hardware) (with stem 06-213900, replaces 06-202100)	1
53	06-214300		90° STEM, HOSE (1-1/2" dia. hose, 2" flange)	1
54	06-214400		FLANGE SET (2") (includes two flange halves and mounting hardware)	1
55			90° STEM, HOSE (16 FL 5K - 12 MJ 90°)	1
56			FLANGE SET (16 CFH-S) (includes two flange halves and mounting hardware)	1
57	06-045600		90° ELBOW, STRAIGHT THREAD (12-16 C50X-S)	2
58	06-044700		90° ELBOW, STRAIGHT THREAD (6-8 C50X-S)	1
59	06-039300		ADAPTER, "O"-RING TO 37° (4 F50X-S)	1
60	06-074600		TEE (1/8 MRO-S)	1
61	10-242800		TUBING (Copper, 5/16" dia., .032" wall) (Bulk item, order as needed. 6" [152 mm] needed here)	A.R.

TITLE ENGINE ASSEMBLY, DETROIT DIESEL (PERKINS) 4.236 (PLATE 2 OF 4)

PLATE NO. C04.36	SIMON AERIALS INC. NEW 22 NOV., 1994	PART NO.



TITLE ENGINE ASSEMBLY, DETROIT DIESEL (PERKINS) 4.236 (PLATE 2 OF 4)

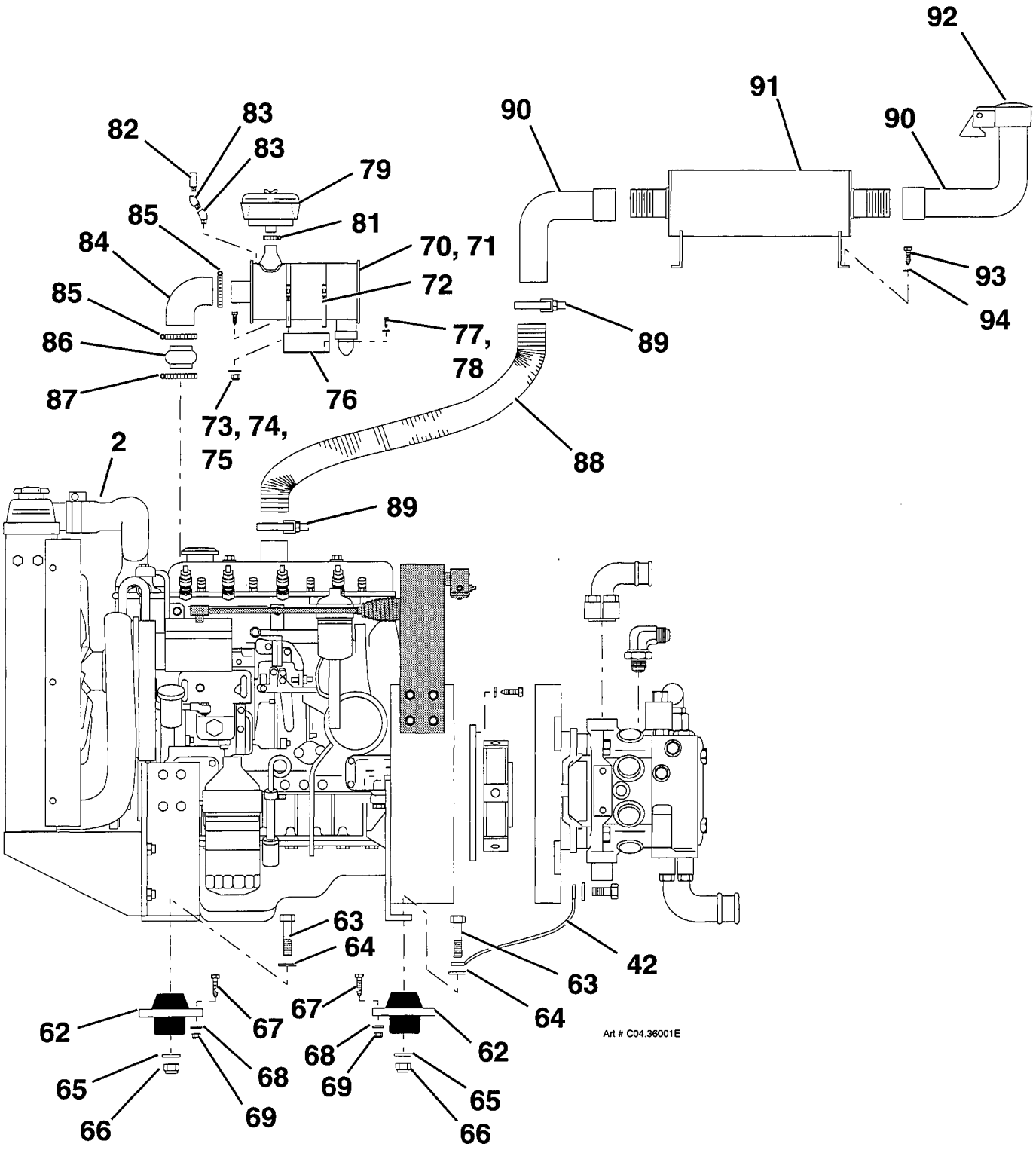
SIMON AERIALS INC. NEW 22 NOV., 1994	PART NO.	PLATE NO. C04.36

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items **are not** part of the Engine Assembly:	
62	09-006500		MOUNT, ENGINE	4
63			CAP SCREW, HEX HEAD	4
64			WASHER, FLAT	4
65			WASHER, FLAT (SAE)	8
66			NUT, HEX LOCK	4
67			CAP SCREW, HEX HEAD	8
68			WASHER, FLAT	8
69			NUT, HEX LOCK	8
70	09-007000		AIR CLEANER ASSEMBLY (8" [203 mm] dia.)	1
71			ELEMENT, AIR FILTER	1
72	09-003400		BAND, MOUNTING (8" dia.)	2
73			SCREW	4
74			NUT, LOCK	4
75			WASHER, FLAT	4
76			BRACKET, AIR CLEANER	2
77			SCREW, SELF-TAPPING	4
78			WASHER, FLAT	4
79	09-007100		PRE-CLEANER (3-3/4" [95 mm] dia.)	1
80	09-036000		ELBOW (2-1/2" x 2-1/2")	2
81			CLAMP	1
82	09-009900		INDICATOR, AIR FILTER SERVICE (20")	1
83	06-081300		45° STREET ELBOW (1/8 CD45-S)	1
84	09-003500		ELBOW (Rubber, 3" I.D.)	1
85			CLAMP, WORM	2
86	09-021500		REDUCER, HUMP (2-3/4" to 3")	1
87			CLAMP, WORM	1
88	09-021300		TUBE, FLEX (2-1/2" I.D. Stainless steel) (Bulk item, order as needed. 3 Ft [.91 M] needed here)	A.R.
89	09-003000		CLAMP, MUFFLER (2-1/2", "U" bolt, universal)	2
90	233 7870		ELBOW, EXHAUST	2
91	09-040000		MUFFLER	1
92	09-009400		CAP, RAIN (2-1/2")	1
93			SCREW, SELF-TAPPING	4
94			WASHER, FLAT	4
95	05-009900		HOSE, SUCTION (32 G4H) (Bulk item, order as needed. 3 Ft [.91 M] needed here)	A.R.
96	05-081900		HOSE, FUEL LINE (5/16" I.D.) (Bulk item, order as needed. 16 Ft [4.9 M] needed here)	A.R.
97	05-084700		HOSE, FUEL LINE (1/8" I.D.) (Bulk item, order as needed. 20 Ft [6.1 M] needed here)	A.R.

TITLE ENGINE ASSEMBLY, DETROIT DIESEL (PERKINS) 4.236 (PLATE 3 OF 4)

PLATE NO. C04.36	**SIMON AERIALS INC.** NEW 22 NOV., 1994	PART NO.



TITLE ENGINE ASSEMBLY, DETROIT DIESEL (PERKINS) 4.236 (PLATE 3 OF 4)

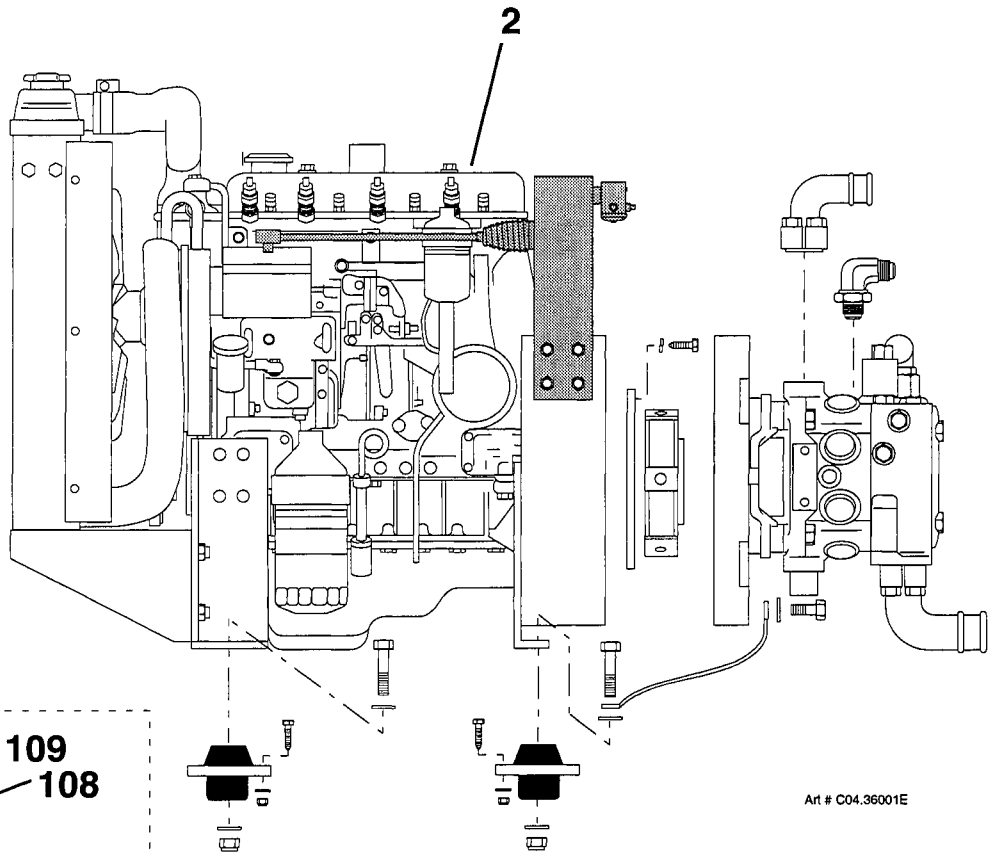
SIMON AERIALS INC. NEW 22 NOV., 1994	PART NO.	PLATE NO. C04.36

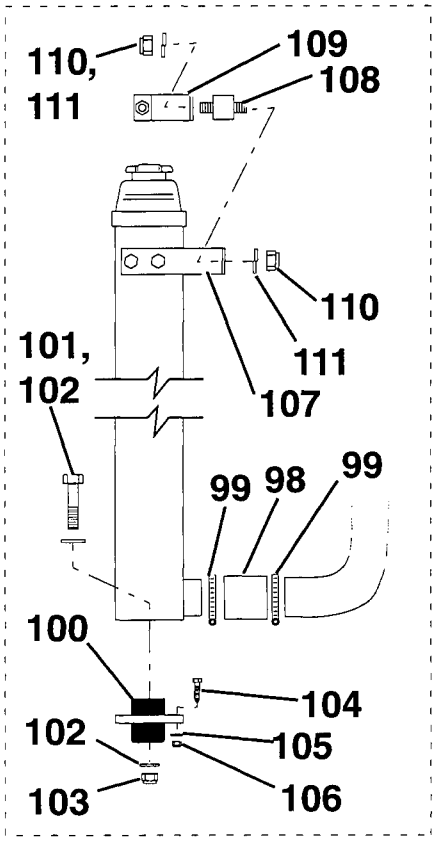
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items are used when the optional remote mounted radiator is specified:	
98	09-058600		HOSE, RADIATOR (2" I.D.) (Bulk item, order as needed. 2.04" [.91 M} needed this application)	A.R.
99	09-008500		CLAMP, HOSE (3-1/2")	4
100			CUSHION, RADIATOR (Lower)	2
101			CAP SCREW, HEX HEAD	2
102			WASHER, FLAT (3/8")	2
103			NUT, HEX LOCK (3/8"-16, Grade 5)	2
104			CAP SCREW, HEX HEAD	4
105			WASHER, FLAT (3/8")	4
106			NUT, HEX LOCK (3/8"-16, Grade 5)	4
107			BRACKET, RADIATOR (Upper)	2
108			CUSHION, RADIATOR (Upper)	2
109			BRACKET, RADIATOR CUSHION (Upper)	2
110			NUT, HEX	4
111			WASHER, HELICAL LOCK	4
			The following hardware items may be used:	
112	03-087500		WIRE, ELECTRICAL (#16 AWG, Blue, stranded) (Bulk item)	A.R.
113	03-087600		WIRE, ELECTRICAL (#16 AWG, Black, stranded) (Bulk item)	A.R.
114	03-087800		WIRE, ELECTRICAL (#16 AWG, Red) (Bulk item)	A.R.
115	03-088300		WIRE, ELECTRICAL (#14 AWG, Blue) (Bulk item)	A.R.
116	03-088400		WIRE, ELECTRICAL (#14 AWG, Black) (Bulk item)	A.R.
117	03-455300		WIRE, ELECTRICAL (#10 AWG, Black, stranded) (Bulk item)	A.R.
118	03-457200		WIRE, ELECTRICAL (#10 AWG, Blue, stranded) (Bulk item)	A.R.
119	03-466300		WIRE, ELECTRICAL (#10 AWG, Red, stranded) (Bulk item)	A.R.
120	03-092200		COUPLING, INSULATED (Male, blue nylon, #14-16 AWG)	5
121	03-092300		COUPLING, INSULATED (Female, blue nylon, 14-16 AWG)	5
122	03-094600		TERMINAL, RING (Blue, #14-16 AWG, #10 stud)	6
123	03-094800		TERMINAL, RING (Blue, #14-16 AWG, 3/8" stud)	1
124	03-095400		TERMINAL, RING (Blue, #10-12 AWG, #10 stud)	3
125	03-095600		TERMINAL, RING (Blue, #10-12 AWG, 1/4" stud)	5
126	03-095700		TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud)	9
127	03-091200		TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud)	19
128	03-091700		TERMINAL, SPADE (Locking, #10-12 AWG, #6 stud)	5

TITLE ENGINE ASSEMBLY, DETROIT DIESEL (PERKINS) 4.236 (PLATE 4 OF 4)

PLATE NO. C04.36	SIMON AERIALS INC. NEW 22 NOV., 1994	PART NO.





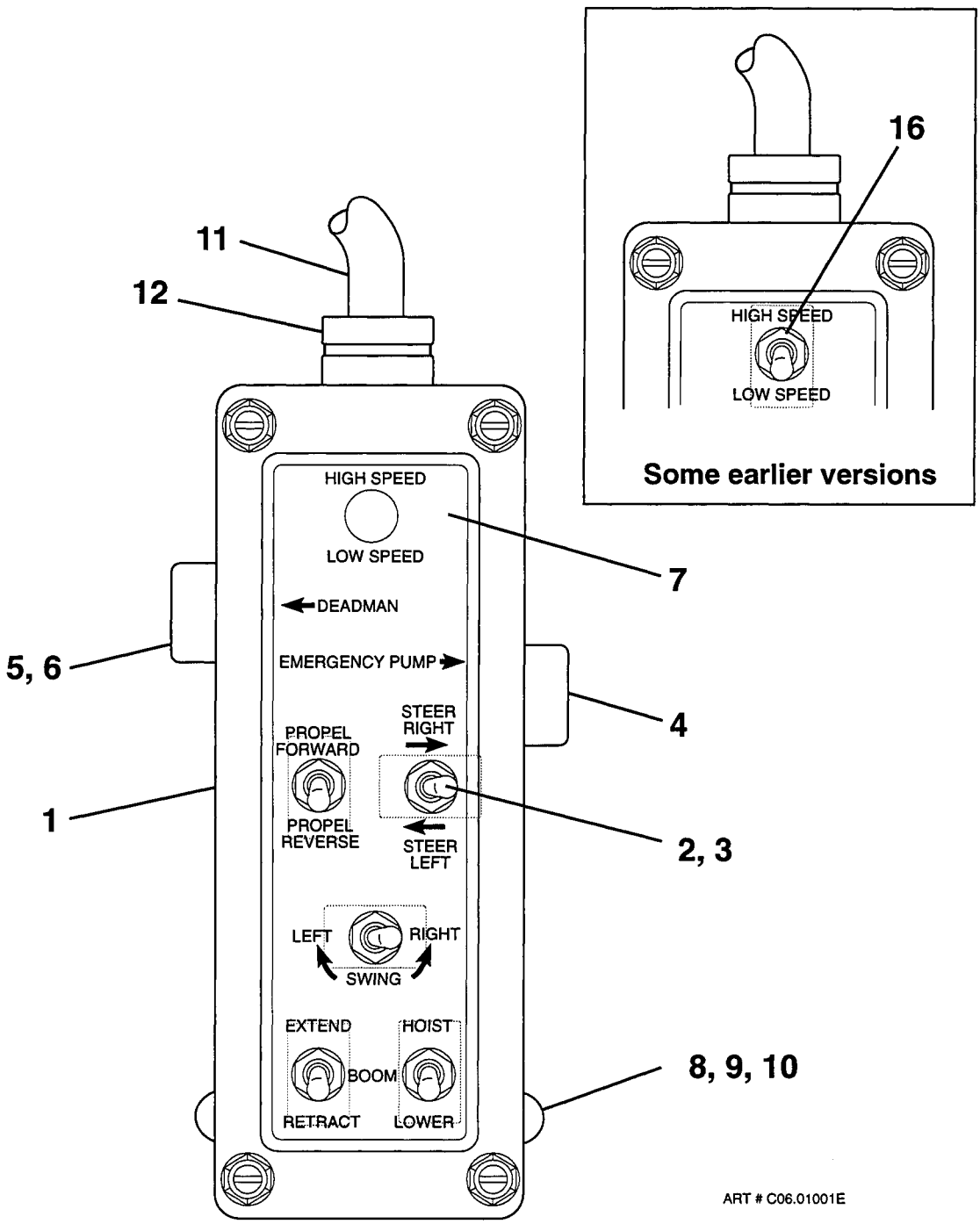
With Remote Mounted Radiator

TITLE ENGINE ASSEMBLY, DETROIT DIESEL (PERKINS) 4.236 (PLATE 4 OF 4)			
SIMON AERIALS INC.	NEW 22 NOV., 1994	PART NO.	PLATE NO. C04.36

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			REMOTE CONTROL PENDANT ASSEMBLY	1
	350 2251		Earlier version, with 10 Ft (3.05 M) long, 24 conductor cable	
	353 4460		Later version, with 20 Ft (6.10 M) long, 19 conductor cable.	
1			BOX, CONTROL (includes cover)	1
	205 6098		Drilled for switch installation	
	03-063000		Undrilled box	
2	03-020500		SWITCH, TOGGLE (Double pole, double throw)	5
3	03-497900		SEAL, PANEL (optional)	5
4	03-020300		BUTTON, PUSH (Single pole, single throw)	1
5	03-021200		BUTTON, PUSH (Two position, "push/ pull")	1
6	03-025000		BLOCK, CONTACT (Normally closed)	1
7	10-016400		PLATE, REMOTE CONTROL PENDANT IDENTIFICATION	1
8	01-031705		KNOB, CONTROL BOX MOUNTING	2
9	07-008354		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8)	2
10	07-062011		WASHER, FLAT (#10)	8
11			CABLE, ELECTRICAL [Bulk item, order as needed]	A.R.
	03-085000		For earlier versions: Type SJO, 24 conductor, #16 AWG (10 Ft [3.05 M] needed in this application.)	
	03-488800		For later versions: Type F 569, 19 conductor, #16 AWG (20 Ft [6.10 M] needed in this application.)	
12	03-063200		GRIP, CORD (3/4", sealing)	1
13	03-055600		NUT, CONDUIT LOCK (3/4")	1
14	03-091200		TERMINAL, SPADE (Blue, #6 stud, #14-16 AWG)	22
15	03-091300		TERMINAL, SPADE (Blue, #10 stud, #14-16 AWG)	2
			The following optional item, which may be found on **some** earlier pendants, is **not part of** Remote Control Pendant Assembly 350 2251 or 353 4460:	
16	03-020400		SWITCH, TOGGLE (Travel speed) (on some earlier units) (Two position, maintained contact, single pole, single throw)	1

TITLE	REMOTE CONTROL PENDANT ASSEMBLY	
PLATE NO. C06.01	**SIMON AERIALS INC.** REV. 18 NOV., 1994	PART NO.

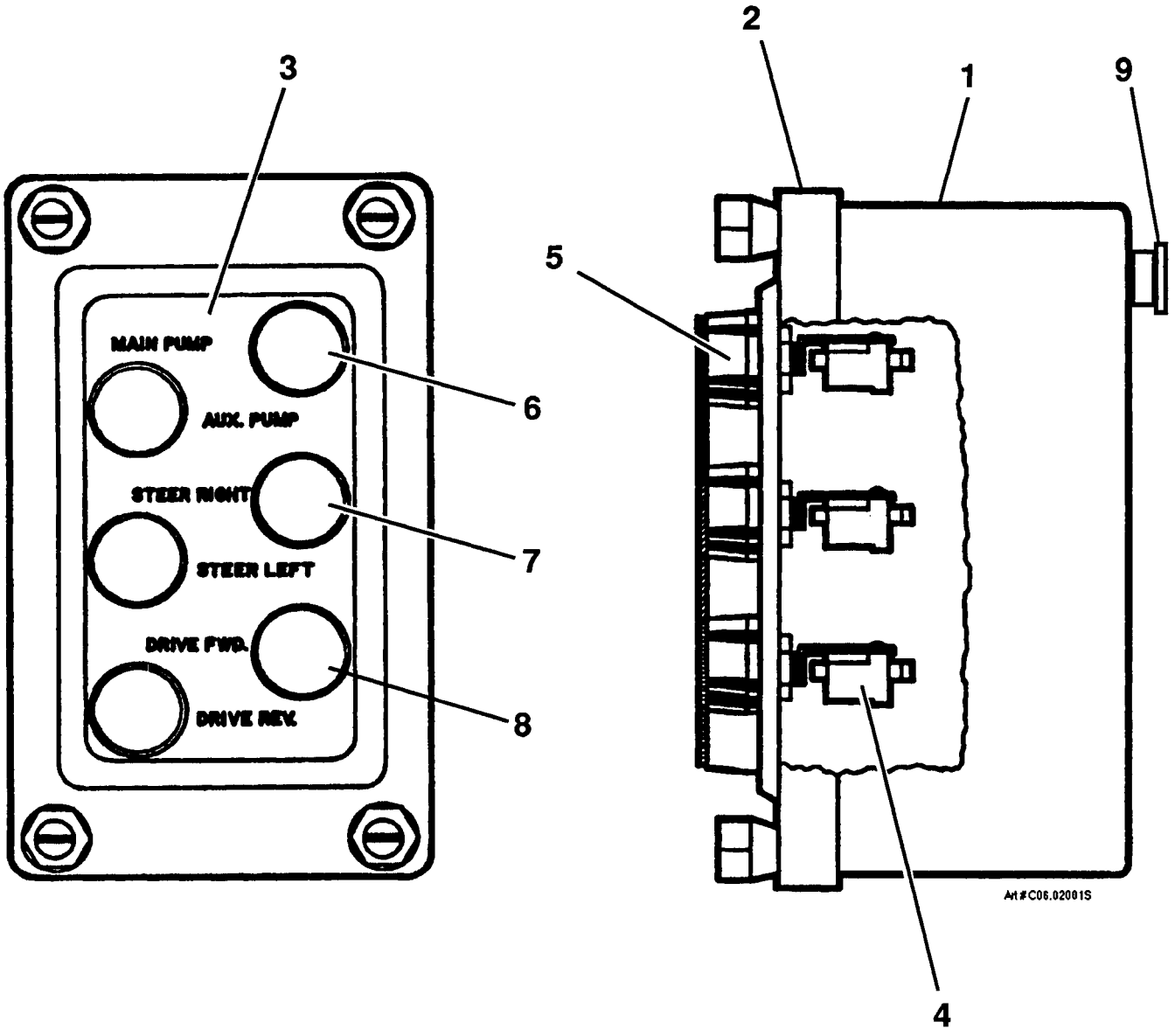


TITLE	REMOTE CONTROL PENDANT ASSEMBLY		
SIMON AERIALS INC. REV. 18 NOV., 1994		PART NO.	PLATE NO. C06.01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2113380		BOX, CONTROL, (Drilled. Includes cover)	1
	03-406100		BOX, CONTROL, (Undrilled. Includes cover)	1
2			COVER, CONTROL BOX	1
3	10-067200		DECAL, REMOTE CONTROL PENDANT	1
4	03-402500		SWITCH (10 Amp, 250 Volt AC, Double pole, single throw)	6
5	03-402600		BEZEL, SWITCH OPERATOR (Push button, sealed)	6
6	03-402700		INSERT, PUSH BUTTON (Red) (Main/ Auxiliary Pump)	2
7	03-402900		INSERT, PUSH BUTTON (Green) (Steer Left/ Right)	2
8	03-402800		INSERT, PUSH BUTTON (Blue) (Drive Forward/ Reverse)	2
9	01-031705		KNOB, VALVE (for attachment to bracket)	2
10	03-446100		CABLE, ELECTRICAL (#18 AWG, 10 conductor) [12' (3.66 M) needed for this application]	A.R.
11	03-041000		GRIP, CORD (1/2", sealing)	1

TITLE	PENDANT ASSEMBLY, REMOTE CONTROL			
PLATE NO.	C06.02	**SIMON AERIALS INC.** REV. 10 APR., 1992	PART NO.	3510225



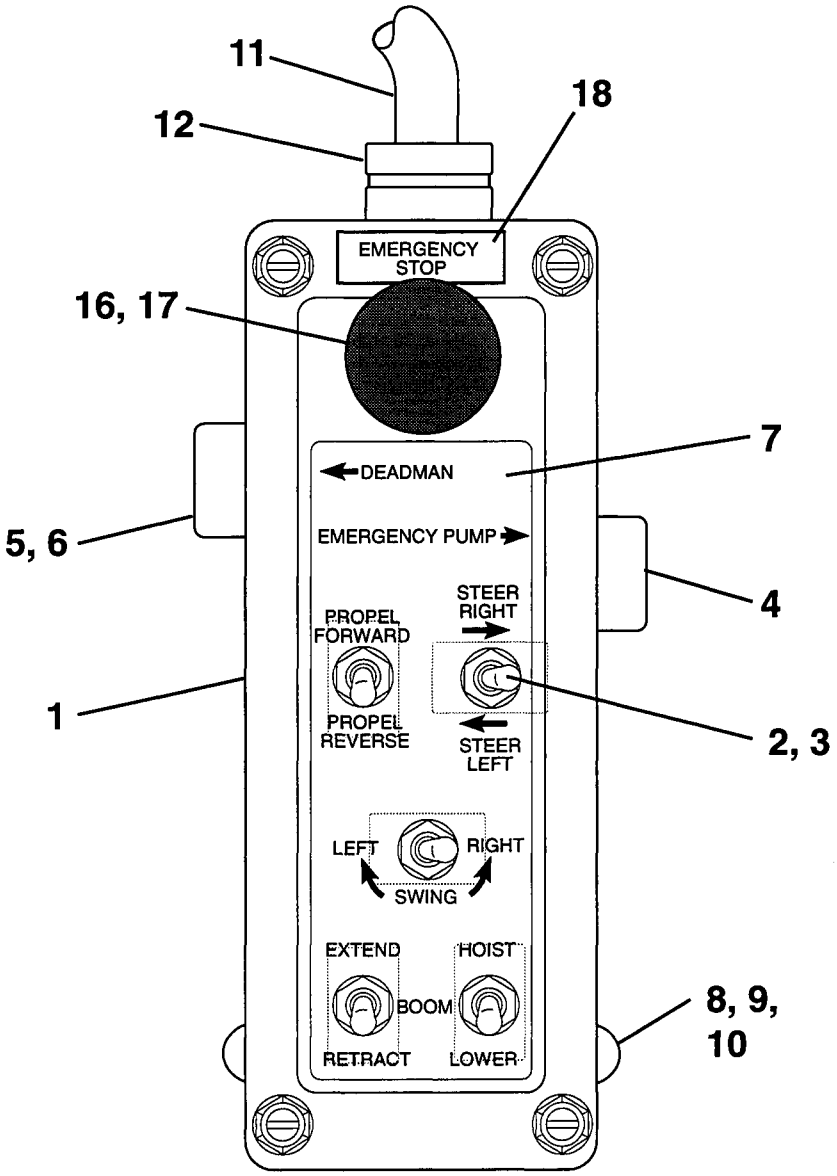
TITLE	PENDANT ASSEMBLY, REMOTE CONTROL		
SIMON AERIALS INC. REV. 10 APR., 1992	PART NO. 3510225	PLATE NO. C06.02	

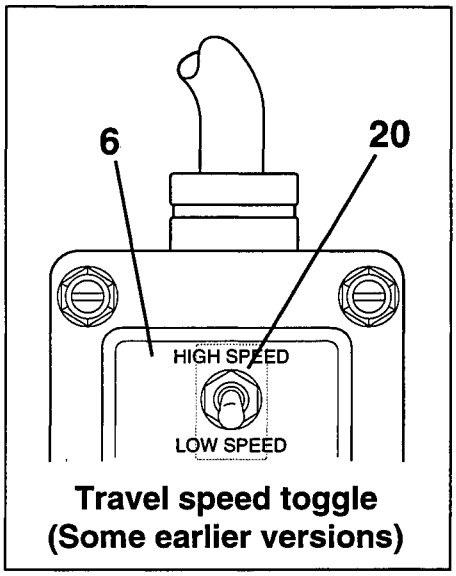
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			REMOTE CONTROL PENDANT ASSEMBLY	1
	No Part #		Earlier version, with 10 Ft (3.05 M) long, 24 conductor cable	
	No Part #		Later version, with 20 Ft (6.10 M) long, 19 conductor cable.	
1	03-063000		BOX, CONTROL (Undrilled box, includes cover)	1
2	03-020500		SWITCH, TOGGLE (Double pole, double throw)	5
3	03-497900		SEAL, PANEL (optional)	5
4	03-020300		BUTTON, PUSH (Single pole, single throw)	1
5	03-021200		BUTTON, PUSH (Two position, "push/ pull")	1
6	03-025000		BLOCK, CONTACT (Normally closed)	1
7			PLATE, REMOTE CONTROL PENDANT IDENTIFICATION	1
	10-016400		With toggle switch hole at top labeled "High/ Low speed".	
	No Part #		Modify part 10-016400 to remove upper section with "High/ Low speed" toggle switch hole.	
8	01-031705		KNOB, CONTROL BOX MOUNTING	2
9	07-008354		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8)	2
10	07-062011		WASHER, FLAT (#10)	8
11			CABLE, ELECTRICAL [Bulk item, order as needed]	A.R.
	03-085000		For earlier versions: Type SJO, 24 conductor, #16 AWG (10 Ft [3.05 M] needed in this application.)	
	03-488800		For later versions: Type F 569, 19 conductor, #16 AWG (20 Ft [6.10 M] needed in this application.)	
12	03-063200		GRIP, CORD (3/4", sealing)	1
13	03-055600		NUT, CONDUIT LOCK (3/4")	1
14	03-091200		TERMINAL, SPADE (Blue, #6 stud, #14-16 AWG)	22
15	03-091300		TERMINAL, SPADE (Blue, #10 stud, #14-16 AWG)	2
16	03-409800		BUTTON, EMERGENCY STOP (Red, "Twist to release" type)	1
17	03-409900		BASE ASSEMBLY, SWITCH MOUNTING (includes "Normally closed" contact block)	1
18	10-101800		DECAL, "EMERGENCY STOP" (Black text in two lines) (on later units having Emergency stop button on front face of pendant)	1
19	No Part #		DECAL, "EMERGENCY STOP" (Black text in one line) (on some earlier units having an Emergency stop button on the underside of the pendant)	1
			The following optional item, which may be found on **some** earlier pendants, is **not part of** this Remote Control Pendant Assembly:	
20	03-020400		SWITCH, TOGGLE (Travel speed) (on some earlier units) (Two position, maintained contact, single pole, single throw)	1

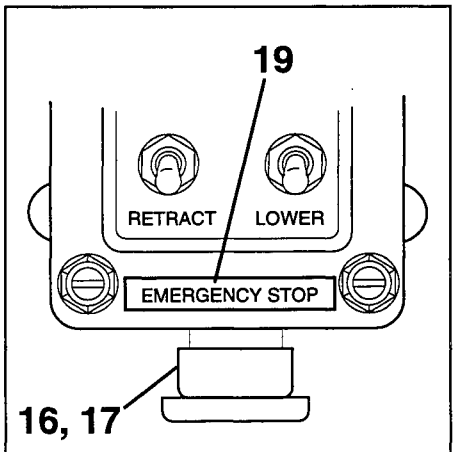
TITLE REMOTE CONTROL PENDANT ASSEMBLY (WITH "EMERGENCY STOP")

PLATE NO.	SIMON AERIALS INC.	PART NO.
C06.03	REV. 18 NOV., 1994	





Travel speed toggle (Some earlier versions)



Bottom mount stop button (Some earlier versions)

ART # C06.03005E

TITLE REMOTE CONTROL PENDANT ASSEMBLY (WITH "EMERGENCY STOP")

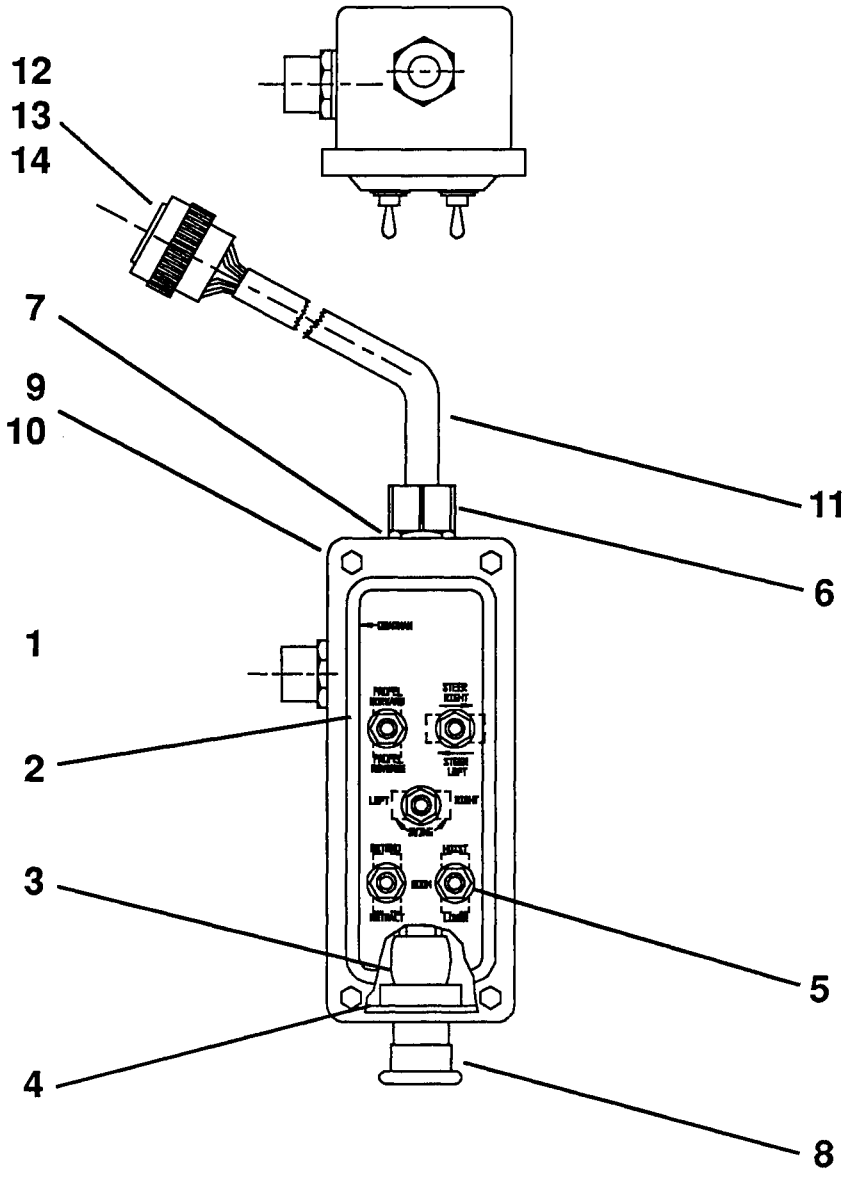
SIMON AERIALS INC. REV. 18 NOV., 1994	PART NO.	PLATE NO. C06.03

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-063000		ENCLOSURE, ELECTRICAL	1
2	10-016400		DECAL, CONTROL BOX	1
3	03-437300		BLOCK, CONTACT (NC)	2
4	03-454900		BASE, MOUNTING	1
5	03-020500		SWITCH, TOGGLE	5
6	03-063200		CORD GRIP, SEALING (3/4")	1
7	03-055600		NUT, CND LOCK (3/4")	1
8	03-409800		ACTUATOR, EMERGENCY STOP	1
9	03-021200		SWITCH, OPERATOR (2-position)	9
10	03-025100		BLOCK, CONTACT (NC)	1
11	03-416100		CABLE, ELECTRICAL (16 AWG, 19 conductor, 15")	1
12	03-450400		PLUG (23 conductor)	1
13	03-451000		SOCKET, TERMINAL	19
14	03-452600		PLUG, SEALING	4

TITLE PENDANT CONTROL BOX

PLATE NO. C06.04 | **SIMON AERIALS INC.** NEW 11/30/90 | PART NO. 2165210



TITLE	PENDANT CONTROL BOX		
SIMON AERIALS INC. NEW 11/30/90		PART NO. 2165210	PLATE NO. C06.04

PARTS LIST

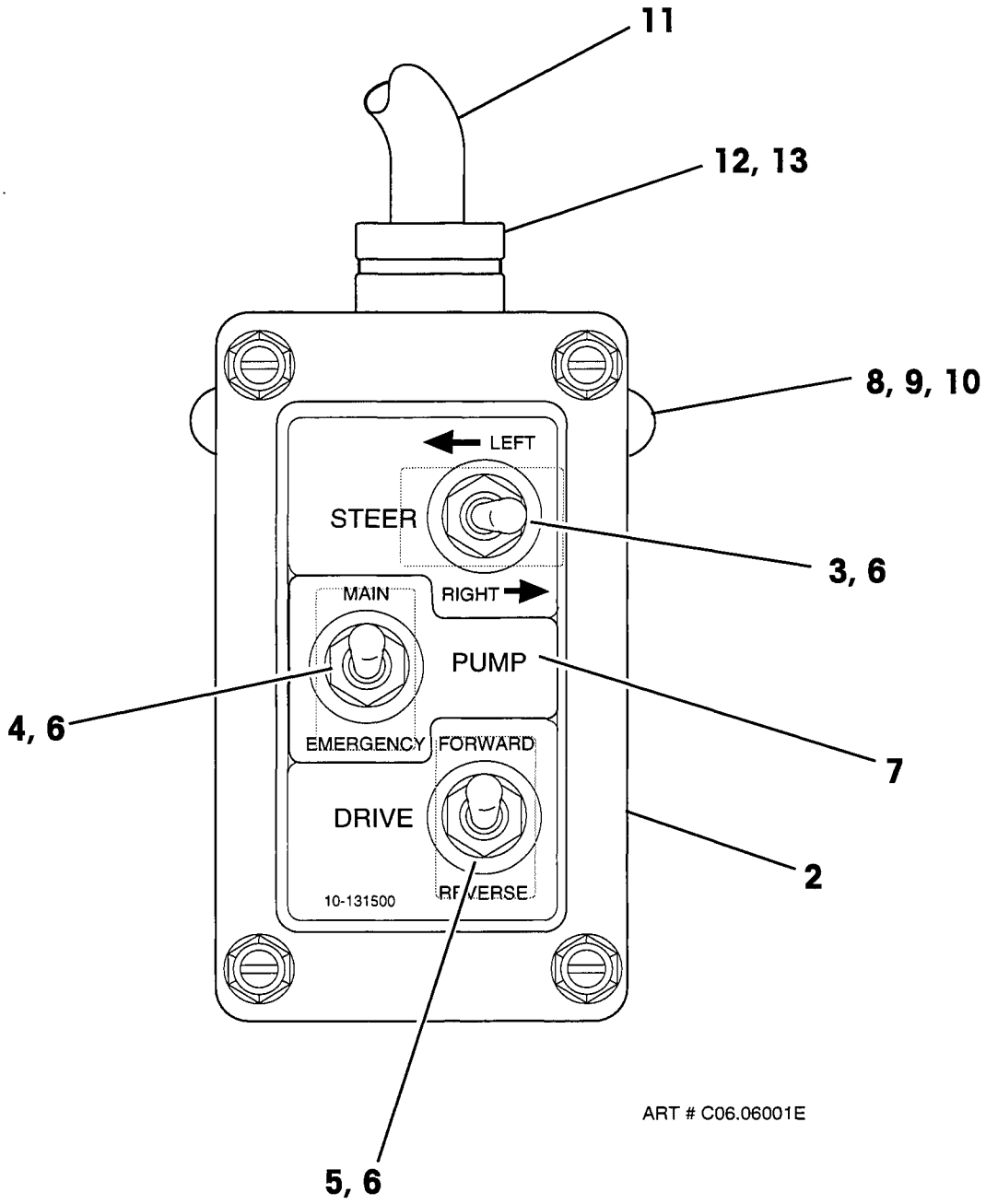
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	352 9370		PENDANT ASSEMBLY, REMOTE CONTROL	1
2			BOX, CONTROL (includes cover)	1
	219 3970		drilled for this application	
	03-406100		undrilled box	
3	03-020500		SWITCH, TOGGLE (Steer) (Three position, momentary contact, single pole, double throw)	1
4			SWITCH, TOGGLE (Pump) (Three position, momentary contact)	1
	03-020500		single pole, double throw (current versions)	
	03-020600		double pole, double throw (some earlier versions)	
5	03-020600		SWITCH, TOGGLE (Drive) (Three position, momentary contact, double pole, double throw)	1
6	03-497900		SEAL, PANEL	3
7	10-131500		DECAL, REMOTE CONTROL PENDANT Current style has White and Red lettering on Black background. Earlier style has Black lettering on a White background. Appearance change only, current style will be supplied.	1
8	01-031705		KNOB, CONTROL BOX MOUNTING	2
9	07-008354		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8)	2
10	07-062011		WASHER, FLAT (#10)	10
11	03-446100		CABLE, ELECTRICAL (#18 AWG, 10 conductor) (10 ft [3.05 m] needed for this application)	A.R.
12	03-041700		GRIP, CORD (3/8", with .31" to .38" seal)	1
13	03-055700		NUT, CONDUIT LOCK (3/8")	1
14	03-091200		TERMINAL, SPADE (Blue, #6 stud, #14-16 AWG)	12
15	03-064000		TIE, CABLE (7.4" [188 mm] long)	5
16	03-064100		MOUNT, CABLE TIE (adhesive backed)	1

TITLE

PENDANT ASSEMBLY, REMOTE CONTROL

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
C06.	06	01	A	14 FEB., 1997	352 9370

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172



ART # C06.06001E

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172

TITLE

PENDANT ASSEMBLY, REMOTE CONTROL

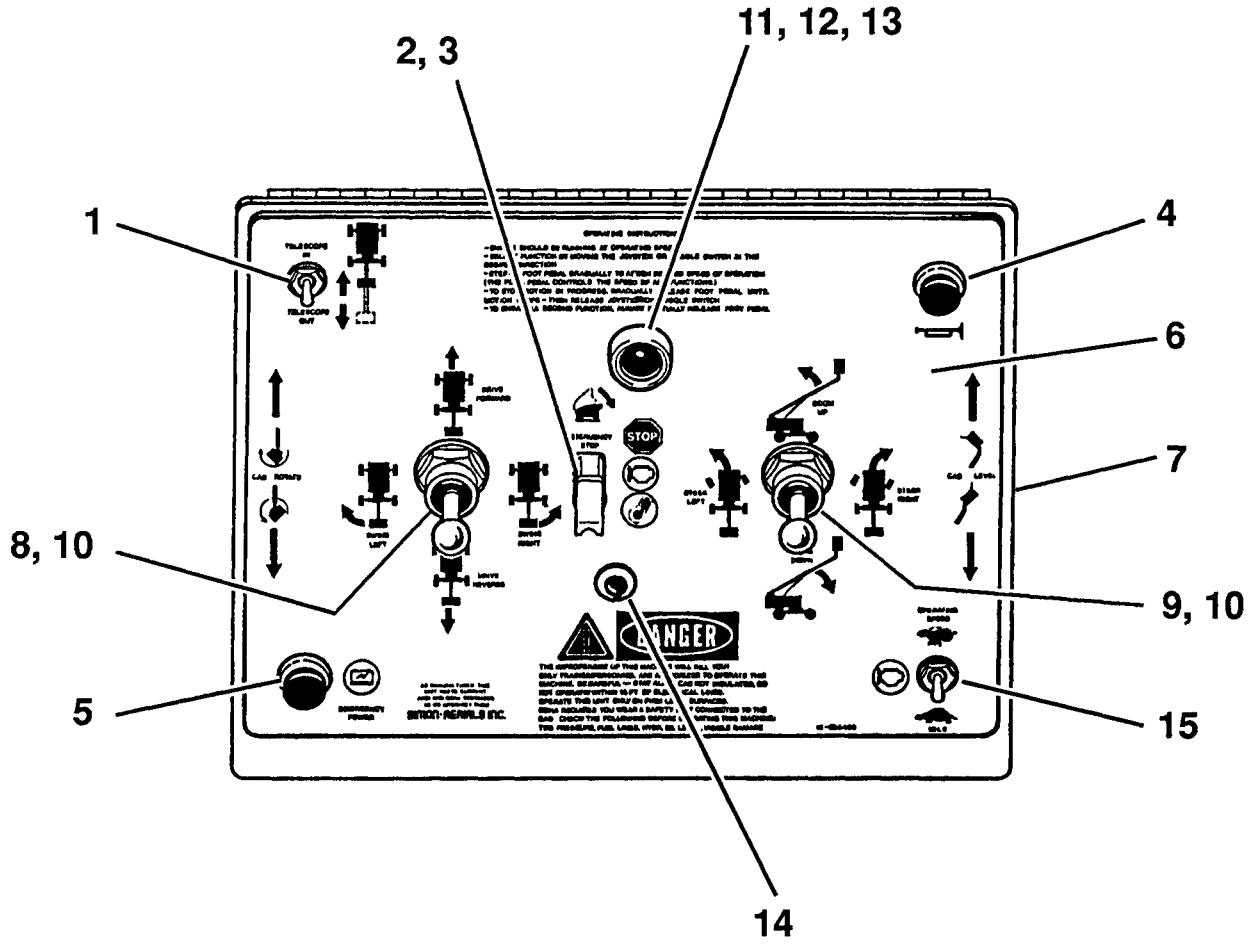
PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
352 9370	A	14 FEB., 1997	C06.	06	01

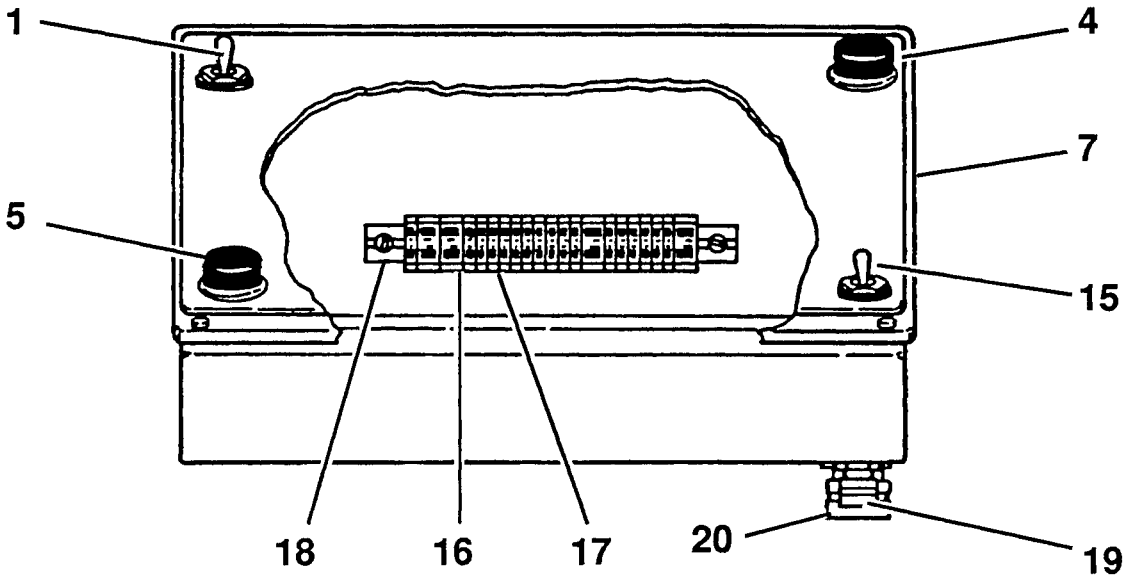
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-020500		SWITCH, TOGGLE (Boom extend)	1
2	03-032600		SWITCH, TOGGLE (Ignition, Engine start)	1
3	03-060800		GUARD, TOGGLE SWITCH (Emergency stop)	1
4	03-020300		BUTTON, PUSH (Horn)	1
5	03-020300		BUTTON, PUSH (Emergency pump)	1
6	10-065400		DECAL, PLATFORM CONTROL (MP model, non-insulated)	1
	10-065500		DECAL, PLATFORM CONTROL (MP model, insulated)	1
	10-065200		DECAL, PLATFORM CONTROL (MPN model, non-insulated)	1
	10-065600		DECAL, PLATFORM CONTROL (MPN model, insulated)	1
7	2062040		ENCLOSURE, PLATFORM CONTROLS (w/ holes drilled)	1
8	03-021800	E01.03	CONTROLLER, JOY STICK (5 position) (Drive/ Swing)	1
9	03-021800	E01.03	CONTROLLER, JOY STICK (5 position) (Lift/ Steer)	1
10	03-025300		BLOCK, CONTACT (normally open)	4
11	03-402500		SWITCH, CHOKE (Double pole, single throw)	1
12	03-402600		BEZEL, CHOKE SWITCH OPERATOR	1
13	03-402800		OPERATOR, CHOKE SWITCH	1
14	03-022900		LIGHT, TROUBLE (option, for Diesel engine)	1
15	03-020400		SWITCH, TOGGLE (Two-speed throttle) (option, w/ Diesel)	1
16	03-036500		BLOCK, TERMINAL (Double pole)	4
17	03-036400		BLOCK, TERMINAL (Single pole)	20
18	03-036600		RAIL, TERMINAL BLOCK MOUNTING	1
19	03-041000		GRIP, CORD (1/2")	1
20	03-063200		GRIP, CORD (3/4")	1

TITLE: PLATFORM CONTROL CONSOLE ASSEMBLY

PLATE NO. C08.02 | **SIMON AERIALS INC.** REV. 10/01/90 | PART NO. 3508183



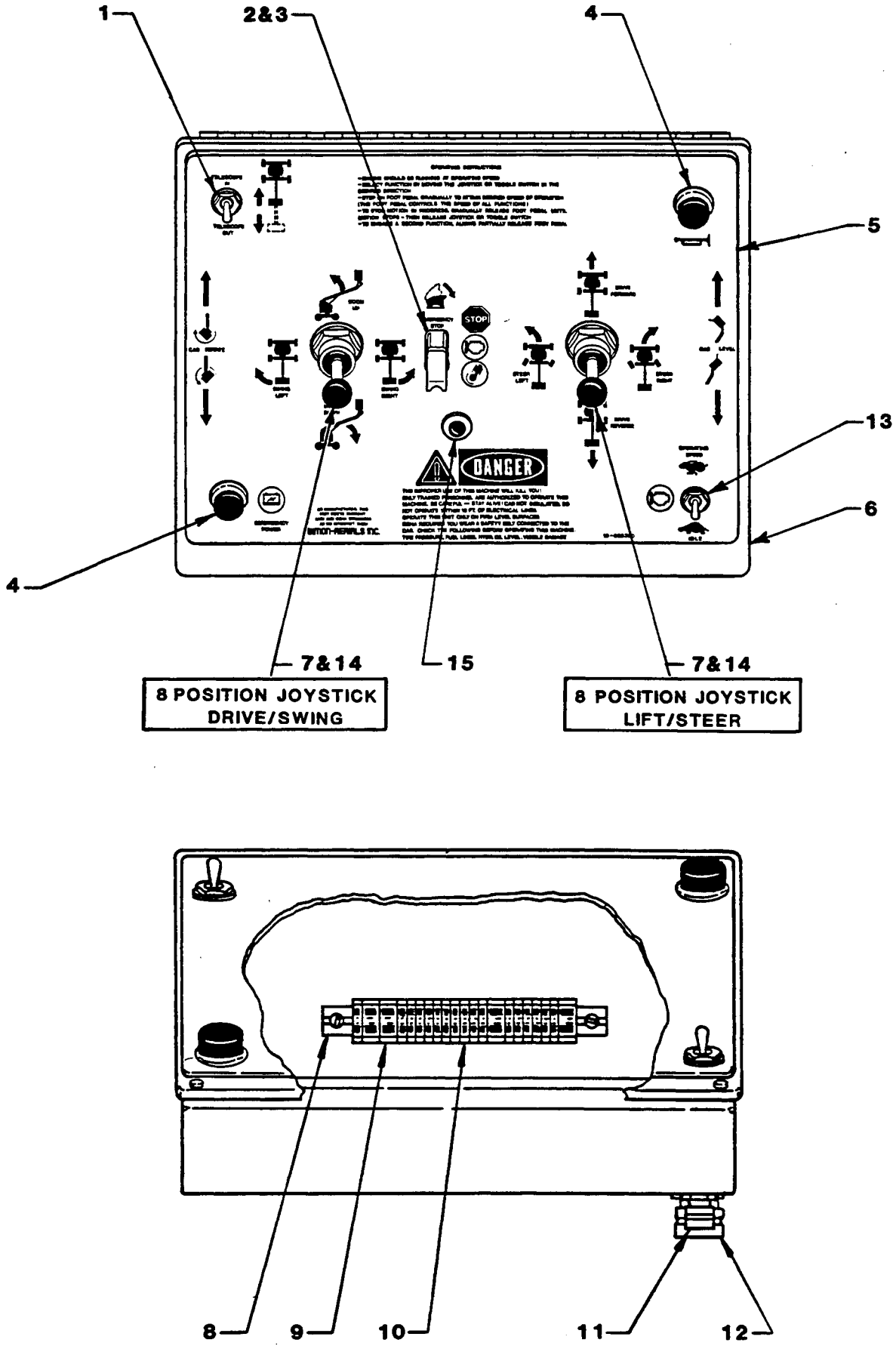


TITLE	PLATFORM CONTROL CONSOLE ASSEMBLY		
SIMON AERIALS INC. REV. 10/01/90	PART NO. 3508183	PLATE NO. C08.02	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	03-020500		TOGGLE SWITCH (BOOM EXTEND)	1
2	03-032600		TOGGLE SWITCH (IGN., ENGINE START)	1
3	03-060800		TOGGLE SWITCH GUARD - EMERGENCY STOP	1
4	03-020300		PUSH BUTTON (HORN, EMERGENCY PUMP)	2
5	10-065300		DECAL (MPN SERIES, NON INSULATED)	1
5	10-065100		DECAL (MP SERIES, NON INSULATED)	2
6	03-035900		ENCLOSURE	1
7	03-061600	E1.4	JOYSTICK, 8 POSITION (LIFT-SWING,DRIVE-STEER)	2
8	03-036600		MOUNTING RAIL, TERMINAL BLOCK	1
9	03-036500		TERMINAL BLOCK, DOUBLE POLE	4
10	03-036400		TERMINAL BLOCK, SINGLE POLE	20
11	03-063200		CORD GRIP, 3/4"	1
12	03-041000		CORD GRIP, 1/2"	1
13	03-020400		TOGGLE SWITCH (DIESEL OPTION, 2 SPEED THROTTLE)	1
14	03-025900		CONTACT BLOCK, N.O.	4
15	03-022900		TROUBLE LIGHT (DIESEL OPTION)	1

DESCRIPTION	PART NO.
PLATFORM CONTROL CONSOLE ASSEMBLY	**3510401**

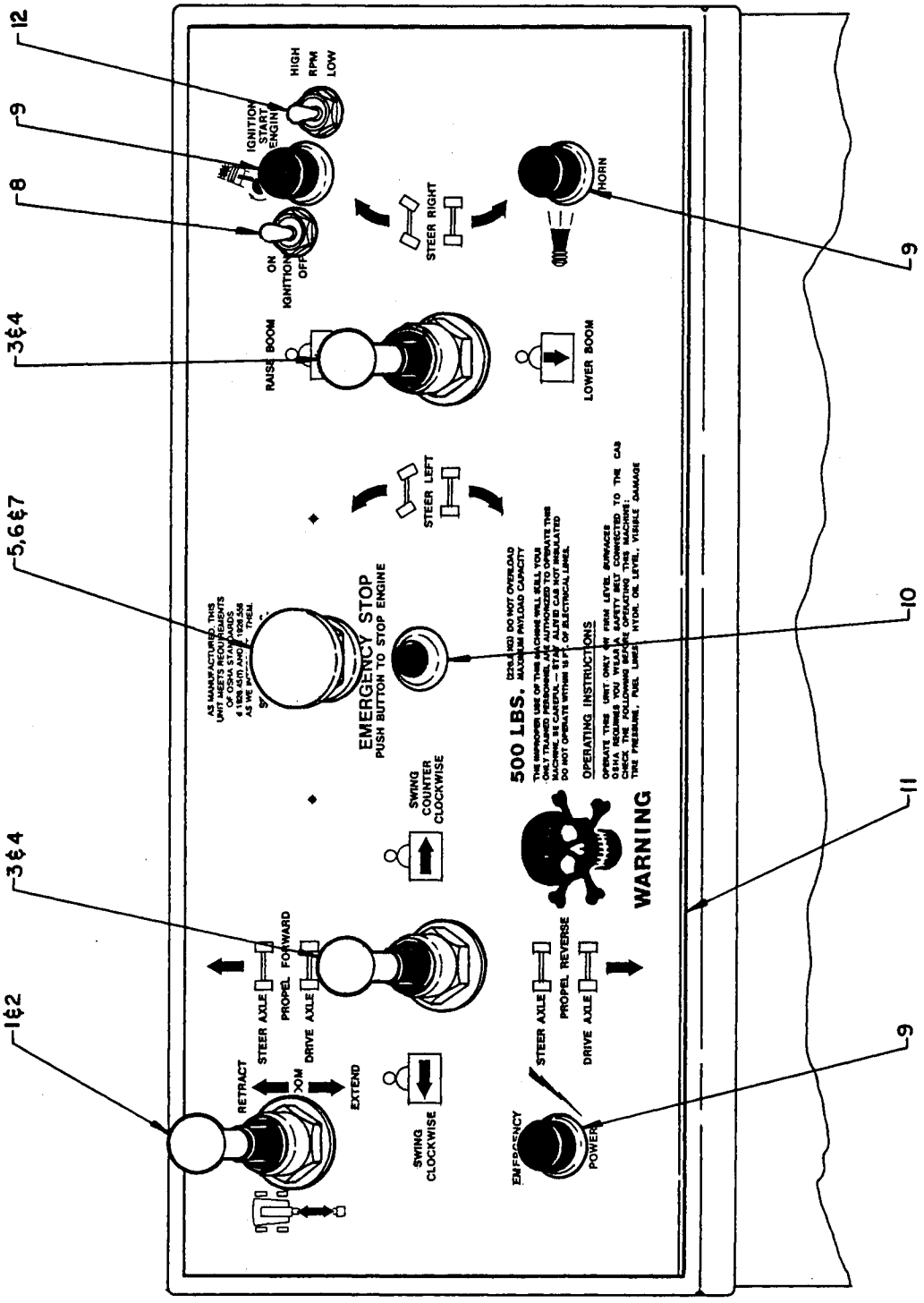


DESCRIPTION	PART NO.
PLATFORM CONTROL CONSOLE ASSEMBLY	**3510401**

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	03-021900	E1.5	JOYSTICK (EXTEND)	1
2	03-025400		CONTACT BLOCK	2
3	03-021800	E1.3	JOYSTICK (SWING, PROPEL; LIFT, STEER)	2
4	03-025300		CONTACT BLOCK	4
5	03-064600		PUSH-PULL BUTTON	1
6	03-023100		PUSH-PULL OPERATOR	1
7	03-025000		CONTACT BLOCK, N.C.	1
8	03-020400		TOGGLE SWITCH (IGNITION)	1
9	03-020300		PUSH BUTTON	3
10	03-022900		TROUBLE LIGHT (DIESEL OPTION)	1
11	10-023400		DECAL	1
12	03-020400		TOGGLE SWITCH (THROTTLE, DIESEL OPTION)	1

DESCRIPTION	PART NO.
PLATFORM CONTROL CONSOLE ASSEMBLY	CAA-207232-4



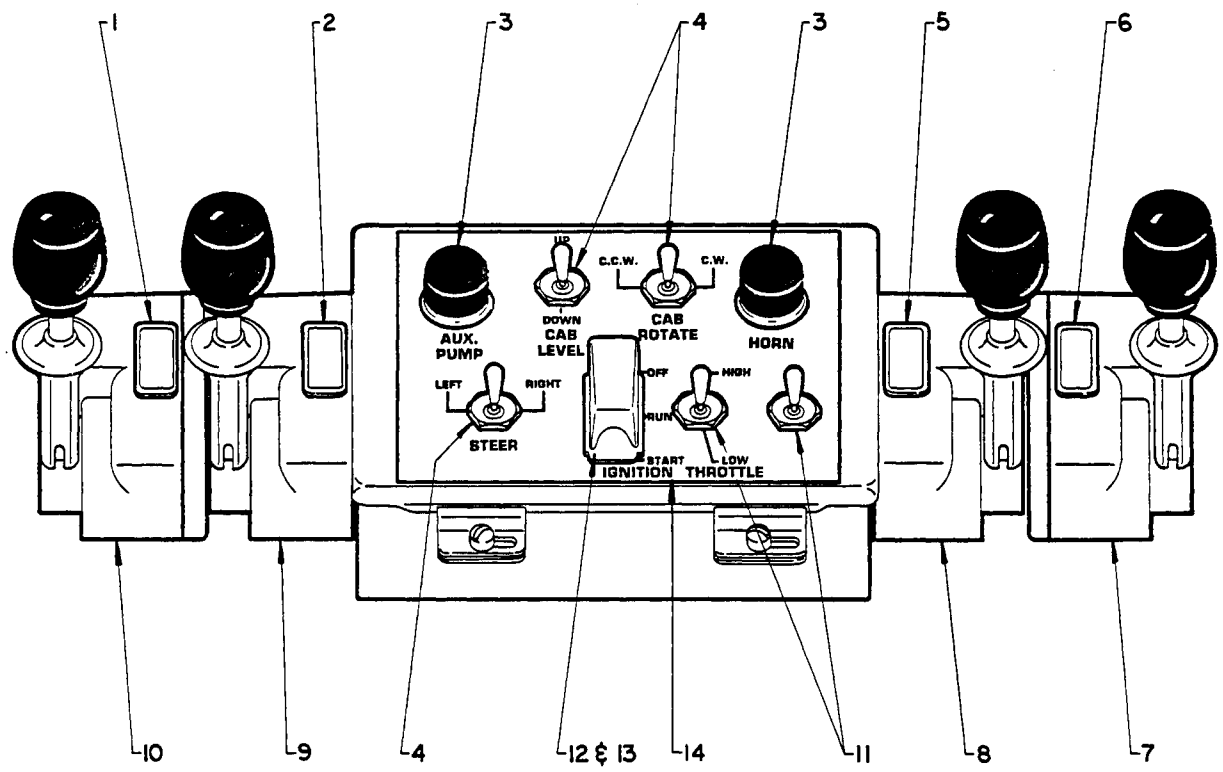
0884/0677

DESCRIPTION	PART NO.
PLATFORM CONTROL CONSOLE ASSEMBLY	CAA-207232-4

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	03-027222		DECAL, TELESCOPE	1
2	03-027223		DECAL, LIFT	1
3	03-020300		PUSH BUTTON, AUX. PUMP & HORN	2
4	03-020500		TOGGLE SWITCH, SPST MOM.	3
5	03-027224		DECAL, SWING	1
6	03-027225		DECAL, DRIVE	1
7	03-027203		CONTROLLER, DRIVE	1
8	03-027205		CONTROLLER, SWING	1
9	03-027204		CONTROLLER, LIFT	1
10	03-027202		CONTROLLER, TELESCOPE	1
11	03-020400		TOGGLE SWITCH, SPST	2
12	03-032600		TOGGLE SWITCH, IGNITION	1
13	03-060800		TOGGLE SWITCH COVER	1
14	SBD-208842-6		CONTROL CONSOLE DECAL	1

DESCRIPTION	PART NO.
CONTROL CONSOLE (PROPORTIONAL)	CAA-208491-2



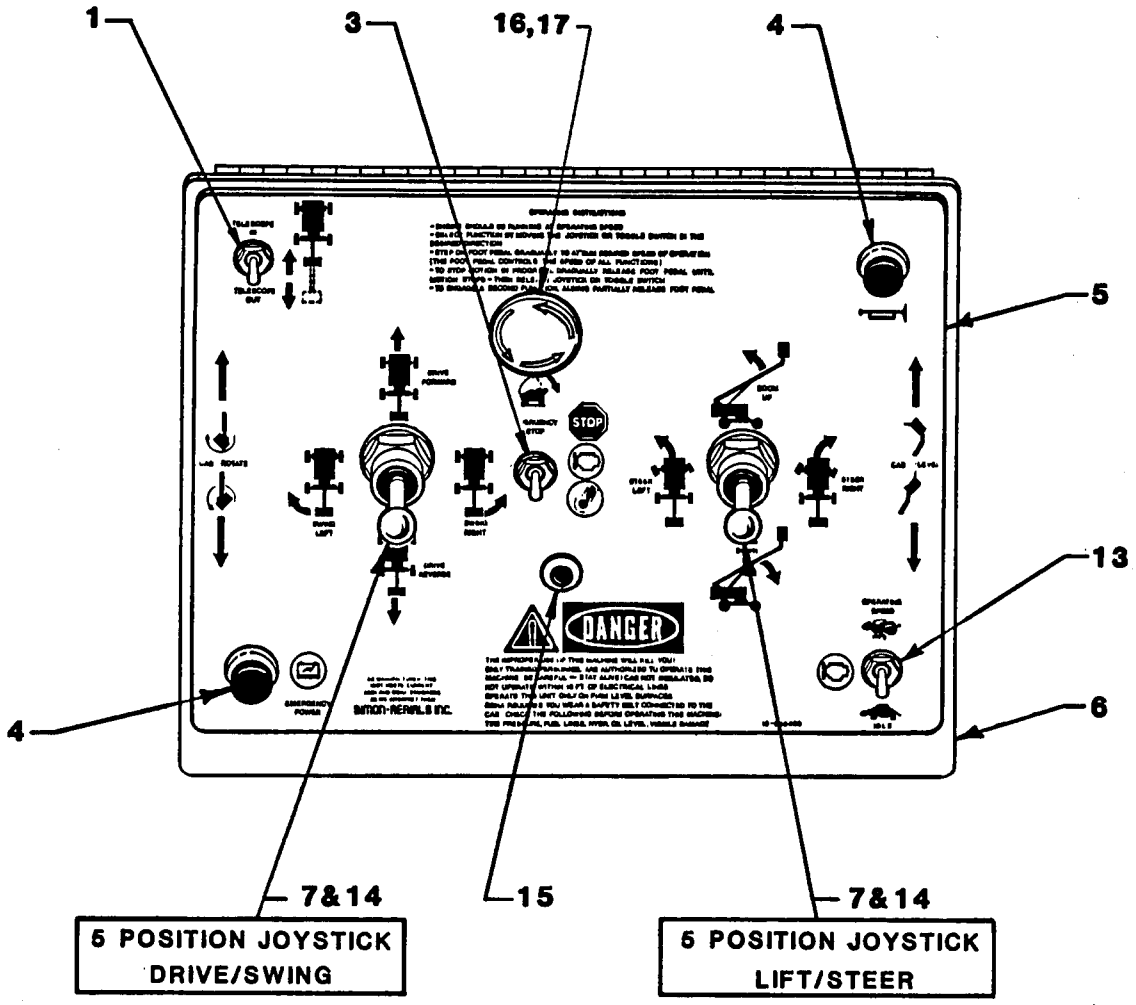
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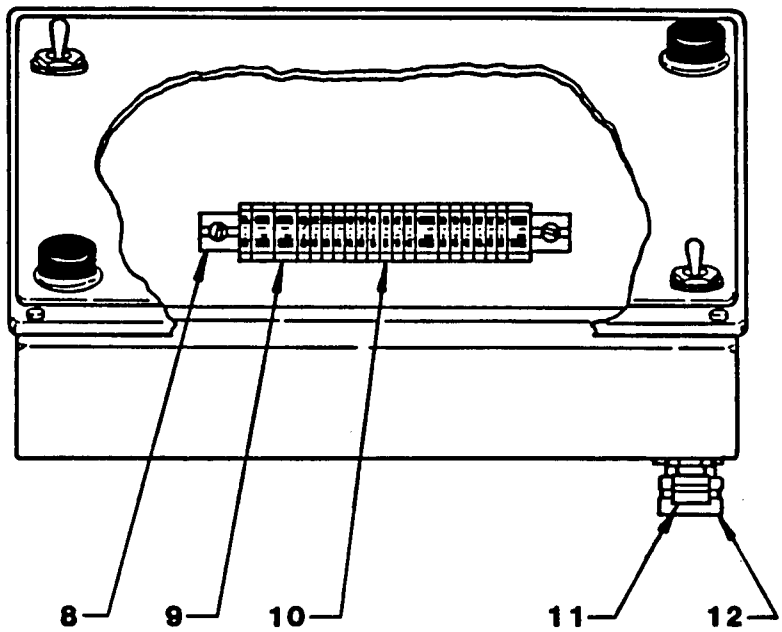
DESCRIPTION	PART NO.
CONTROL CONSOLE (PROPORTIONAL)	CAA-208491-2

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	03-020500		TOGGLE SWITCH (BOOM EXTEND)	1
2				1
3	03-032600		TOGGLE SWITCH (IGNITION, ENG. START)	1
4	03-020300		PUSH BUTTON (HORN, EMERGENCY PUMP)	2
5	10-065400		DECAL (MP SERIES, NON-INSULATED)	1
5	10-065500		DECAL (MP SERIES, INSULATED)	1
5	10-065200		DECAL (MPN SERIES, NON INSULATED)	1
5	10-065600		DECAL (MPN SERIES, INSULATED)	1
6	03-035900		ENCLOSURE	1
7	03-021800	E1.3	JOYSTICK, 5 POSITION (LIFT-STEER, DRIVE-SWING)	2
8	03-036600		MOUNTING RAIL, TERMINAL BLOCK	1
9	03-036500		TERMINAL BLOCK, DOUBLE POLE	4
10	03-036400		TERMINAL BLOCK, SINGLE POLE	20
11	03-063200		CORD GRIP, 3/4"	1
12	03-041000		CORD GRIP, 1/2"	1
13	03-020400		TOGGLE SWITCH (DIESEL OPTION, 2 SPEED THROTTLE)	1
14	03-025300		CONTACT BLOCK, N.O.	1
15	03-022900		TROUBLE LIGHT (DIESEL OPTION)	1
16	03-409800		EMERGENCY STOP SWITCH OPERATOR	1
17	03-409900		MOUNTING BASE & CONTACT BLOCK (N.C.)	1

DESCRIPTION	PART NO.
PLATFORM CONTROL CONSOLE	





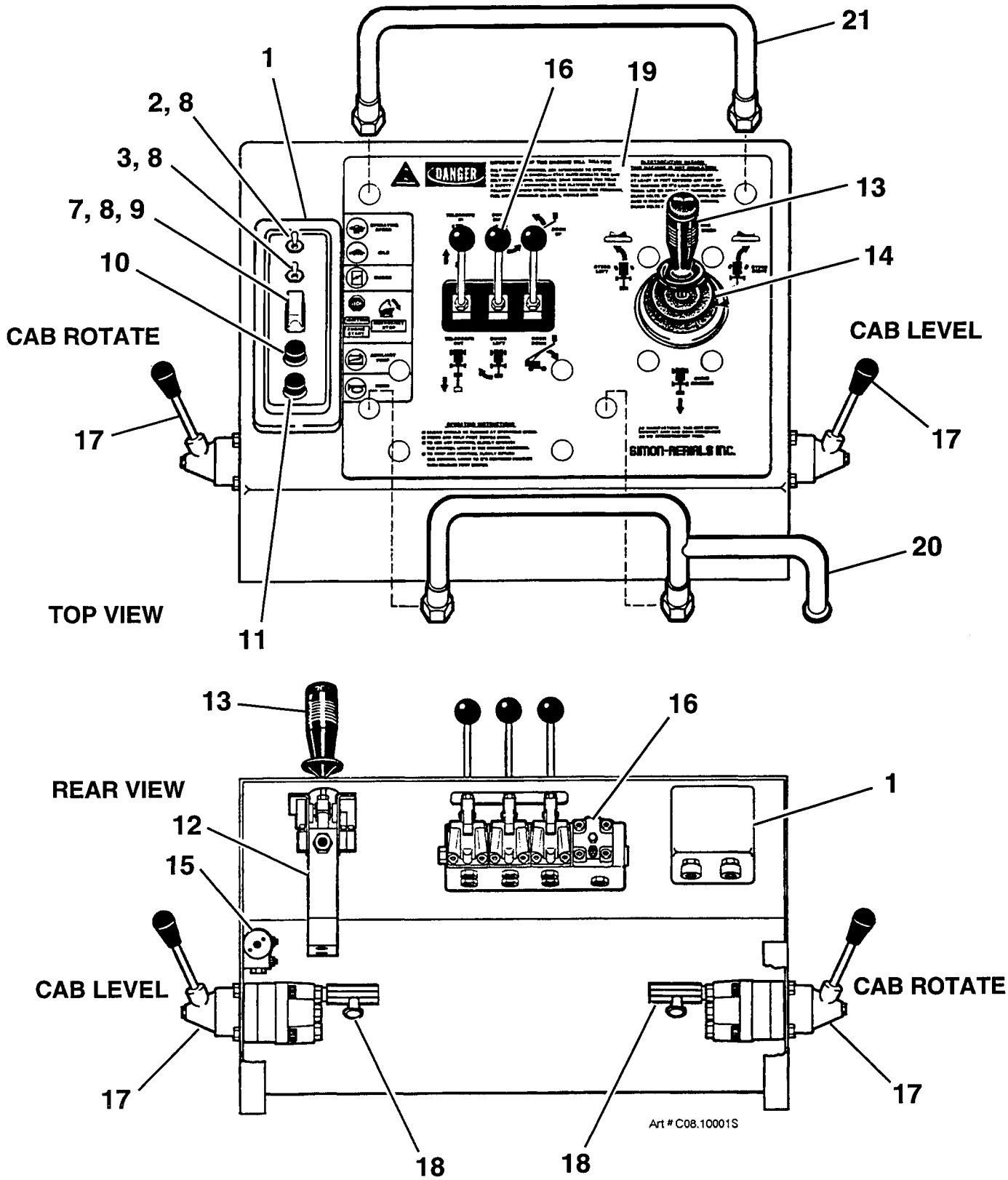
0886/0686

DESCRIPTION	PART NO.
PLATFORM CONTROL CONSOLE	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	211 0650		BOX, PLATFORM ELECTRICAL CONTROL	1
2	03-020400		SWITCH, TOGGLE (Engine throttle) (2 position, maintained contact, single pole, single throw)	1
3	03-020500		SWITCH, TOGGLE (Choke) (3 position, intermittent contact, single pole, double throw)	1
4	03-402500		SWITCH, PUSHBUTTON (optional Choke Button) (not shown)	1
5	03-402600		BEZEL, SWITCH (for optional Choke Button)	1
6	03-402800		BUTTON (Blue, for optional Choke Button)	1
7	03-032600		SWITCH, TOGGLE (Engine ignition) (3 position)	1
8	03-497900		SEAL, PANEL	3
9	03-060800		GUARD, SWITCH	1
10	03-020300		SWITCH, PUSHBUTTON (with black cap. Red cap can be supplied for this application. Please indicate on order.)	1
11	03-020300		SWITCH, PUSHBUTTON (with black cap)	1
12	See index . .	D18.02	VALVE, DRIVE CONTROL	1
13	See index . .	E01.07	HANDLE ASSEMBLY, DRIVE CONTROL	1
14	03-402206		BOOT, DRIVE CONTROL HANDLE	1
15	01-034400		VALVE, 2-WAY SOLENOID	1
16	01-061700	C02.30	VALVE BANK ASSEMBLY (Lift, Swing, Telescope) Standard type (**not for use** with water-glycol hydraulic fluid)	1
	01-099500	C02.31	VALVE BANK ASSEMBLY (Lift, Swing, Telescope) Optional type (**can be** used with water-glycol hydraulic fluid)	1
17	See index . .	D14.03	VALVE, 4-WAY MANUAL (Platform level or rotate)	2
18	01-018900		VALVE, FLOW CONTROL (#6 SAE ports)	2
19	10-084800		DECAL, CONTROL CONSOLE for MP Series	1
	10-065300		for MPN Series	
20	211 4320		GRAB BAR (lower)	1
21	211 4310		GRAB BAR (upper)	1
22	03-463700		SWITCH, TOGGLE (for optional 2-Speed Drive) (3 position) (not shown)	1
23	10-091300		DECAL, TWO-SPEED DRIVE (option) (not shown)	1
24	03-022900		LIGHT, PILOT (12 Volt DC) (option) (not shown)	1
25	211 2260		COVER, PLATFORM CONTROLS (option) (not shown)	1

TITLE	CONTROL CONSOLE ASSEMBLY (FULL HYDRAULIC)			
PLATE NO.	C08.10	**SIMON AERIALS INC.**	REV. 06 JUN., 1995	PART NO.



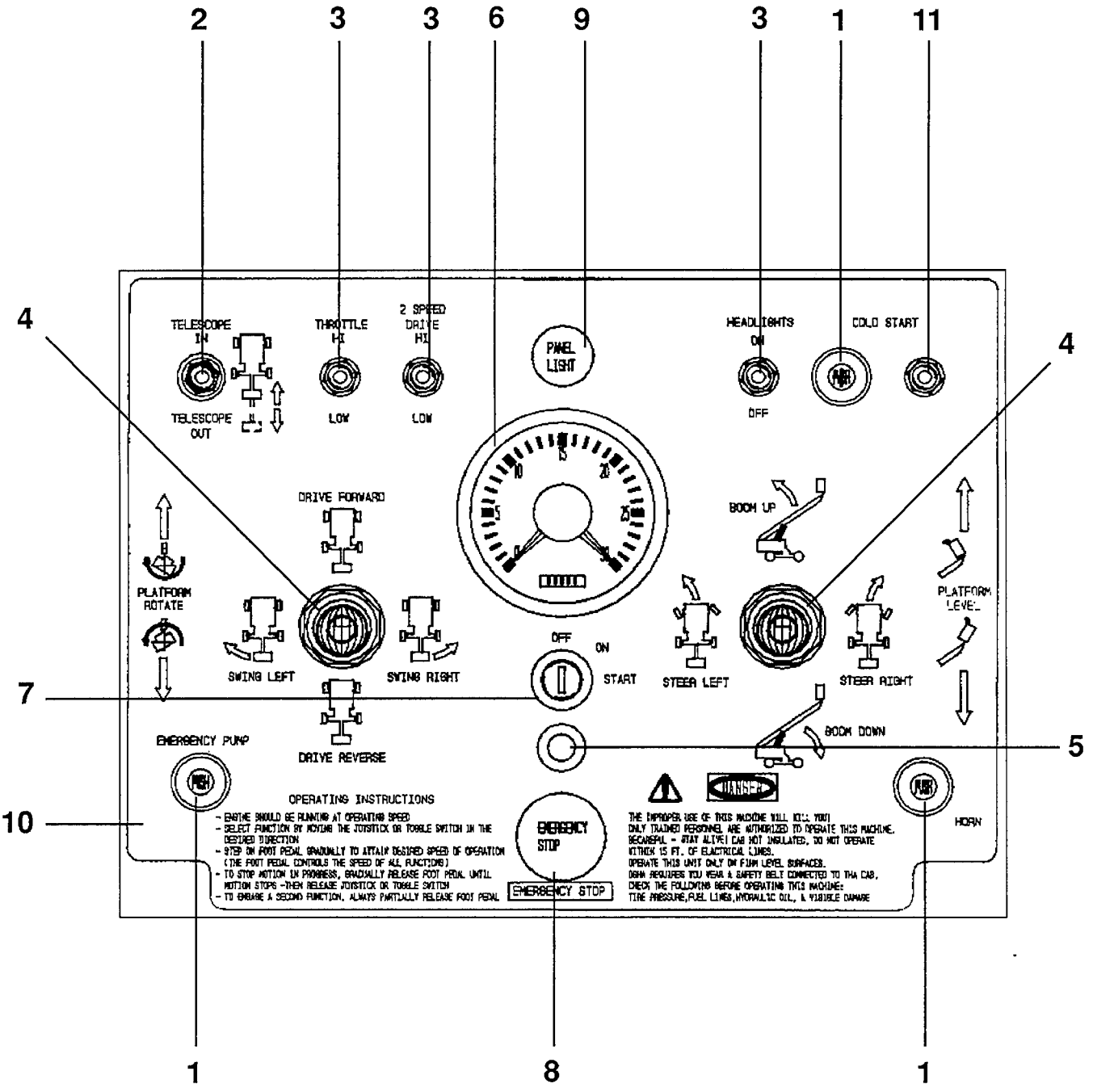
TITLE	CONTROL CONSOLE ASSEMBLY (FULL HYDRAULIC)		
SIMON AERIALS INC.	REV. 06 JUN., 1995	PART NO.	PLATE NO. C08.10

PARTS LIST

ITEM	PART NUMBER	SEC.	DESCRIPTION	QTY.
1	03-020300		PUSH BUTTON	3
2	03-020500		TOGGLE SWITCH	1
3	03-020400		TOGGLE SWITCH	3
4	03-021800		JOYSTICK (5 WAY)	2
5	03-022900		TROUBLE LIGHT	1
6	09-037600		TACHOMETER	1
7	03-458700		KEY SWITCH	1
8	03-409800		EMERGENCY STOP BUTTON (THREE PIECES)	1
	03-437300			1
	03-454900			1
9	03-038800		PANEL LIGHT	1
10	2144770		DECAL	1
11	03-022901		PANEL LIGHT	1

DESCRIPTION
PLATFORM CONTROL CONSOLE ASS'Y (RUSSIAN)

PART NO.



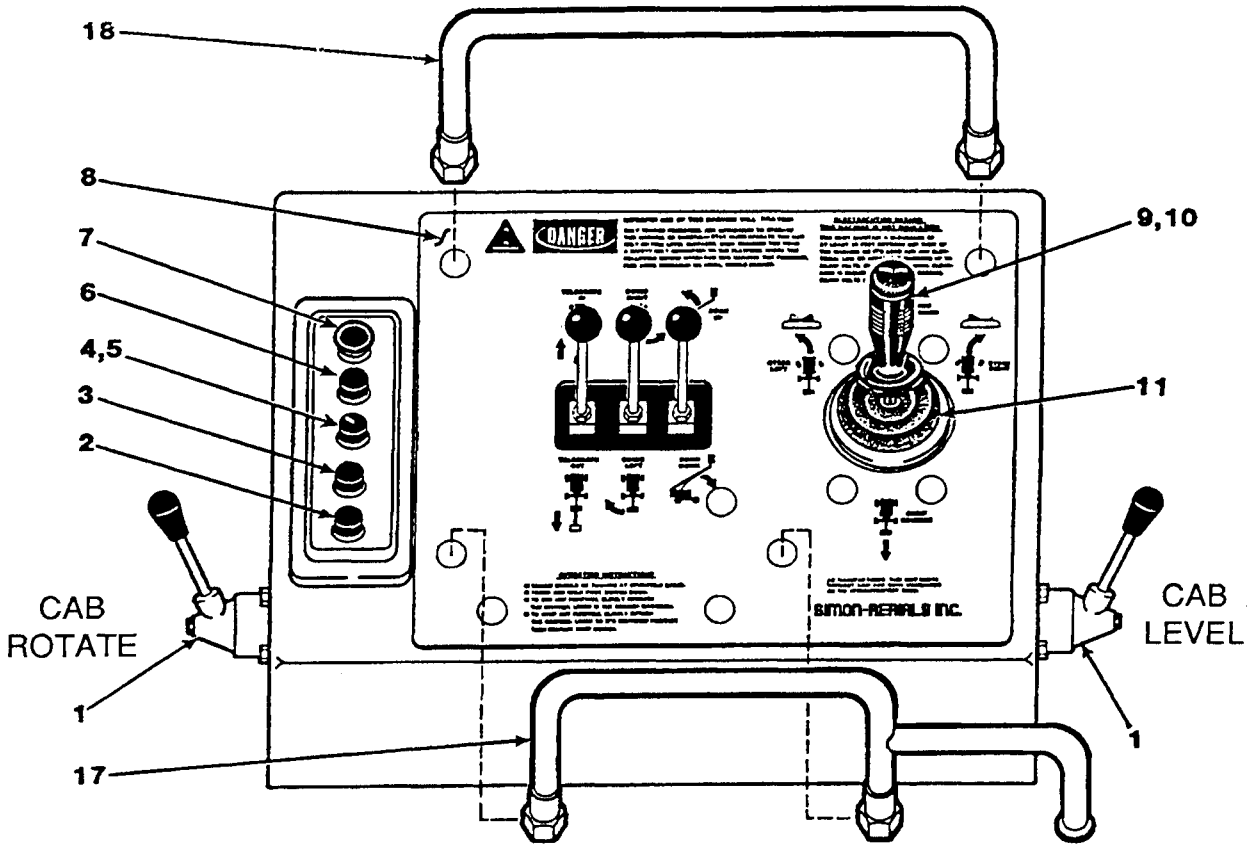
DESCRIPTION	PART NO.
PLATFORM CONTROL CONSOLE ASS'Y (RUSSIAN)	

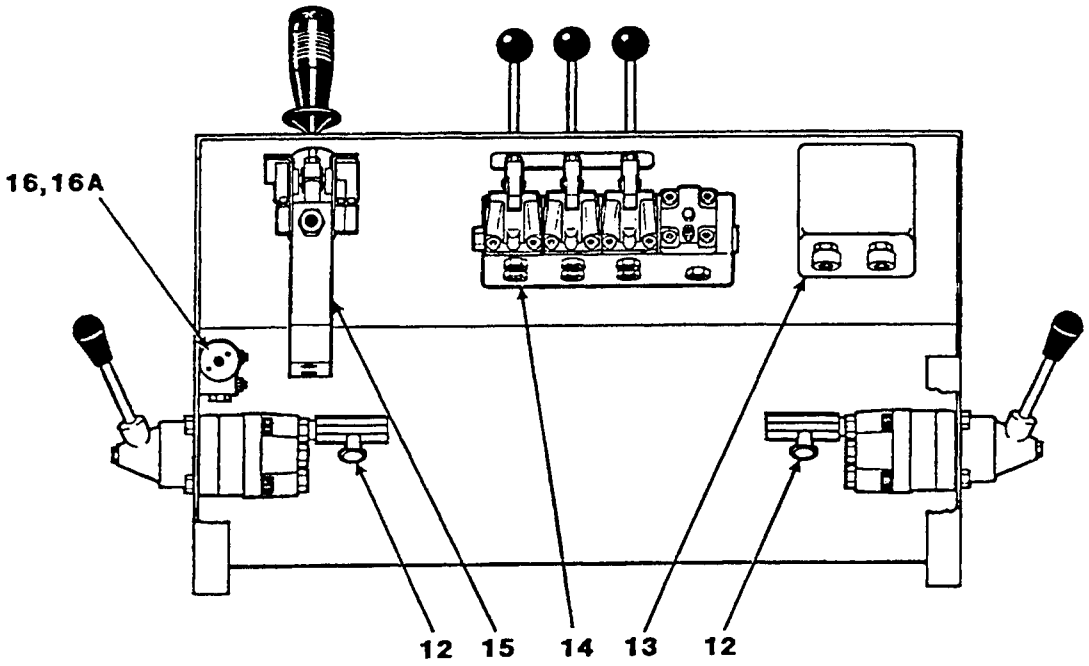
PARTS LIST

ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
1	SEE INDEX	D14.--	VALVE, 4-WAY MANUAL (level, rotate)	2
2	03-471900		ACTUATOR, STOP (red)	1
3	03-471800		ACTUATOR, START (green)	1
4	03-410000		ACTUATOR, HIGH AND LOW SPEED SELECTOR	1
5	2165950		DECAL, ELECTRICAL BOX	1
6	03-421900		ACTUATOR, HORN (blue)	1
7	03-409800		ACTUATOR, EMERGENCY STOP (red)	1
8	10-084800		DECAL, HYDRAULIC CONTROL CONSOLE	1
9	03-402200	E01.07	HANDLE, DRIVE CONTROL	1
10			SWITCH, ROCKER (steer)	1
11	03-402206		BOOT, DRIVE CONTROL HANDLE	1
12	01-018900		VALVE, NEEDLE (#6 SAE ports)	2
13	2140400		BOX, ELECTRICAL CONTROL	1
14	01-061700	C02.30	VALVE BANK ASSEMBLY (lift, swing, telescope)	1
15	SEE INDEX	D18.--	VALVE, DRIVE CONTROL	1
16	01-034400		VALVE, 2-WAY SOLENOID (to January 1990; see item 16 below)	1
	01-037100		VALVE, 2-WAY SOLENOID (from January 1990)	1
16A	01-007600		CARTRIDGE, VALVE (to January 1990; when replacement is required install complete valve, part no. 01-037100)	1
17	2114320		GRAB BAR, LOWER	1
18	2114310		GRAB BAR, UPPER	1
19	2114330		PLUG, MANIFOLD (not shown)	4
20	2116090		COVER, ACCESS (not shown)	1
21	03-437200		CONTACTOR (normally open, not shown)	2
22	03-437300		CONTACTOR (normally closed, not shown)	3

TITLE: CONTROL CONSOLE ASSEMBLY (FULL HYDRAULIC)

PLATE NO. C08.12 | **SIMON AERIALS INC.** REV. 11/30/90 | PART NO. 2112570





TITLE CONTROL CONSOLE ASSEMBLY (FULL HYDRAULIC)

SIMON AERIALS INC. REV. 11/30/90	PART NO. 2112570	PLATE NO. C08.12

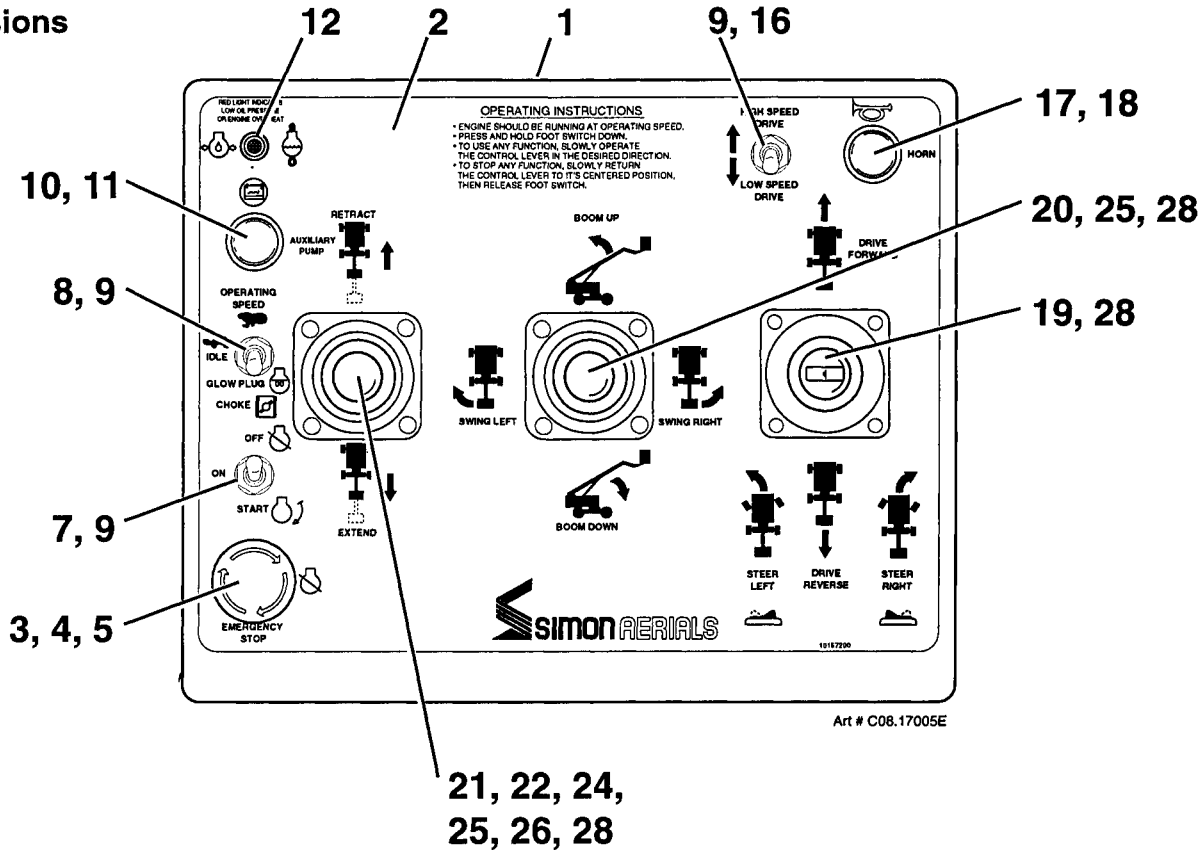
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			CONSOLE, CONTROL	1
	219 6160		Later version, for models with Emergency Stop **button.**	
	210 5560		Earlier version, for models with **red toggle switch cover.**	
2			PLACARD, PLATFORM CONTROL	1
	10-157200		Later version, for models with Emergency Stop **button.**	
	10-123500		Earlier version, for models with **red toggle switch cover** for Emergency Stop.	
3	03-702000		BUTTON, EMERGENCY STOP (Red "pull to release" style)	1
4	03-454900		BASE, CONTACT BLOCK	1
5	03-437300		BLOCK, CONTACT (Normally closed)	1
6	03-060800		GUARD, SWITCH (Red) (for earlier version)	1
7	03-032600		SWITCH, TOGGLE (Engine start) (3 position, 2 maintained and 1 momentary contact, double pole, double throw)	1
8	03-032600		SWITCH, TOGGLE (Engine speed) (3 position, 2 maintained and 1 momentary contact, double pole, double throw)	1
9	03-497900		SEAL, PANEL	3
10	03-020300		SWITCH, PUSH BUTTON (Auxiliary pump)	1
11	03-020302		CAP, PUSH BUTTON SWITCH (Red)	1
12	03-706400		DIODE, LIGHT-EMITTING (L.E.D.) (Red, 12 Volt) (Later version. No holder or resister needed)	1
13	03-481200		DIODE, BLINKING (Red) (Optional engine warning lamp) (Earlier version. Requires holder and resister below)	1
14	03-481300		HOLDER, DIODE	1
15	03-481100		RESISTOR (470 Ohm)	1
16	03-020400		SWITCH, TOGGLE (Drive speed) (Optional two speed drive) (2 position, maintained contact, single pole, single throw)	1
17	03-020300		SWITCH, PUSH BUTTON (Horn)	1
18	03-020301		CAP, PUSH BUTTON SWITCH (Black)	1

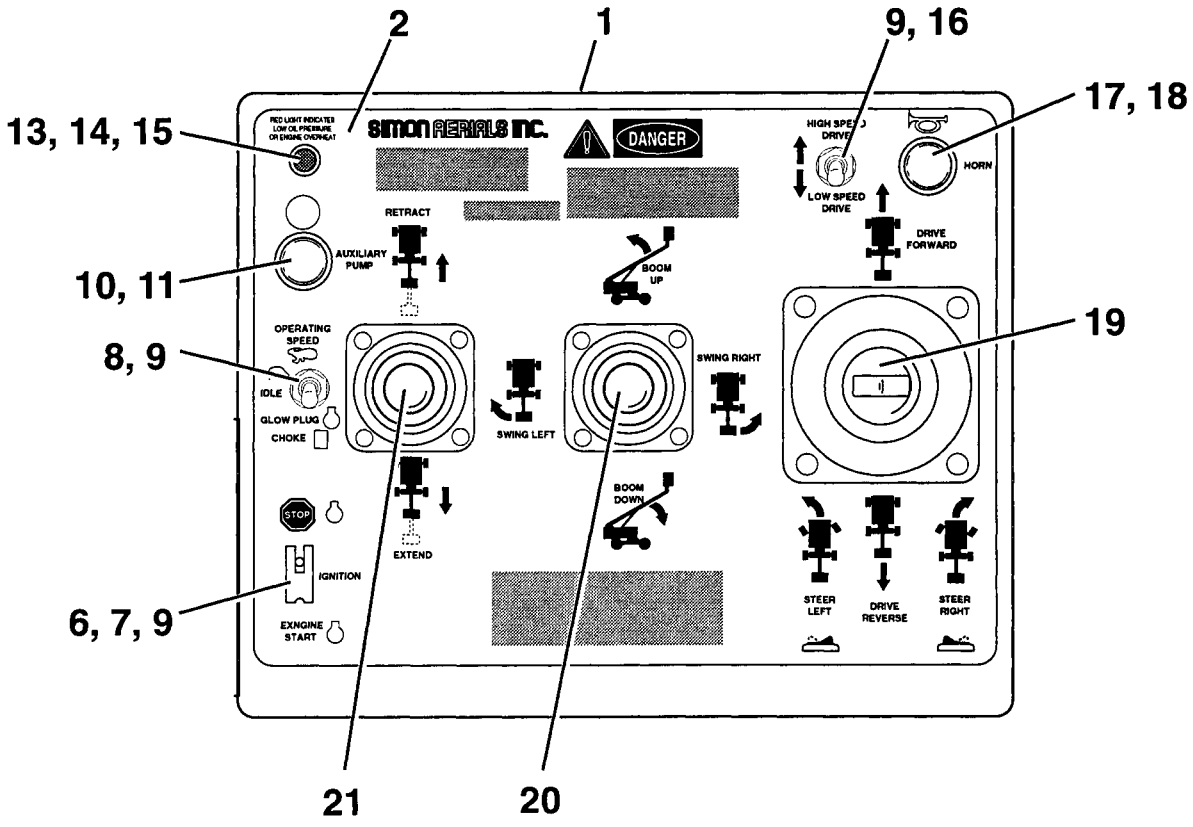
TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (1 OF 4)

PLATE NO.	C08.17	SIMON AERIALS INC. NEW 02 DEC., 1994	PART NO.

Later Versions



Earlier Versions



TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (1 OF 4)

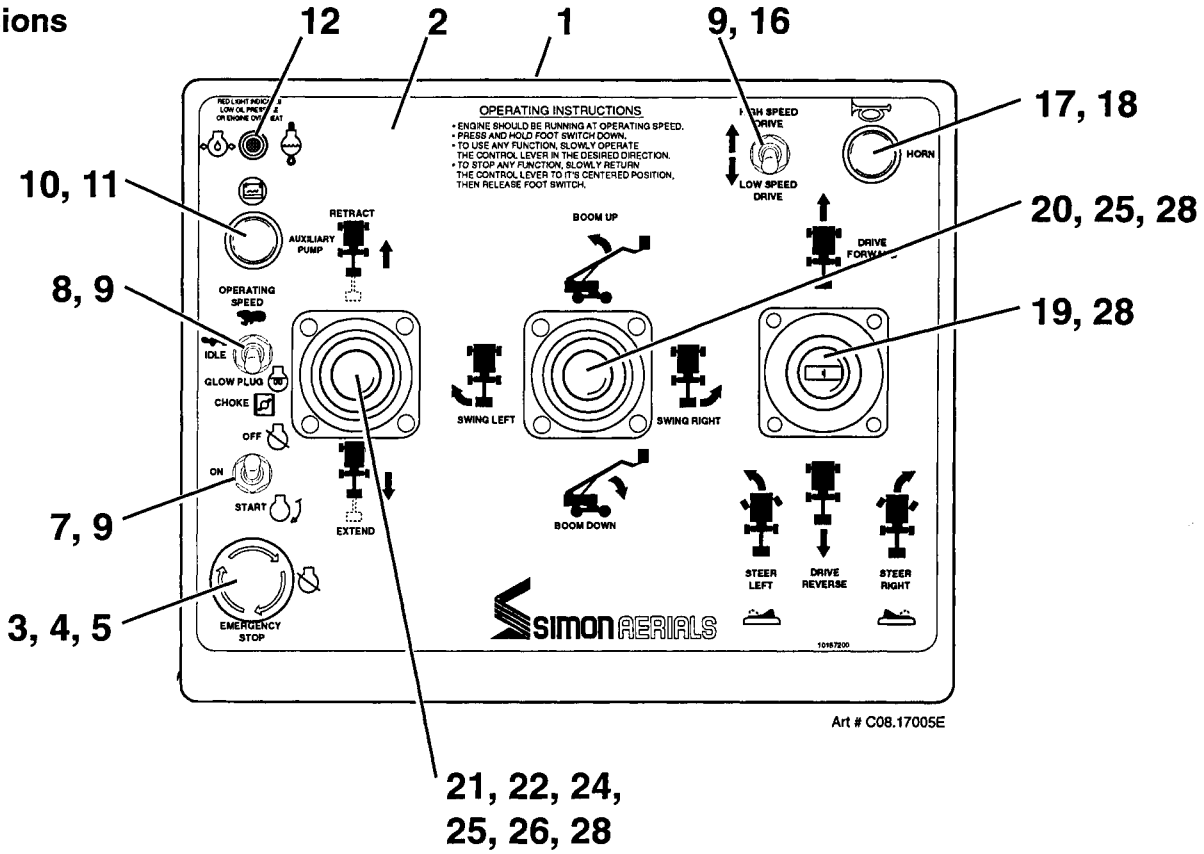
SIMON AERIALS INC.	NEW 02 DEC., 1994	PART NO.	PLATE NO. C08.17

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
19		E01.08	CONTROLLER, SINGLE AXIS (with rocker) (Drive/ Steer)	
	03-491200		Later type, identified on nameplate as "MJ **4121-1043**"	1
	03-481900		Earlier type, identified on nameplate as "MS M6941"	1
20		E01.10	CONTROLLER, DUAL AXIS (Boom angle/ swing)	
	03-491100		Later type, identified on nameplate as "MJ **5122**-1020"	1
	03-481800		Earlier type, identified on nameplate as "JS54 M6539"	1
21		E01.09	CONTROLLER, SINGLE AXIS (Boom extend/ retract)	
	03-491000		Later type, identified on nameplate as "MJ **4121**-1020"	1
	03-481700		Earlier type, identified on nameplate as "EMS4 M6351"	1
22	03-493600		CARD, SWITCH (with mounting hardware) (Mounts to Extend/ Retract Controller in this application.)	1
23	03-702100		RAMP KIT, DRIVE	1
24	03-494800		RAMP CARD (Mounts to Extend/ Retract Controller)	1
25	03-494900		DRIVE BOARD (Mount to Extend/ Retract and Swing Controllers in this application.)	2
26	03-495300		CABLE, JUMPER (Mounts to Extend/ Retract Controller)	1
27	03-702200		MOUNTING HARDWARE, DRIVE RAMP KIT	1
28	03-499500		COVER KIT, CONTROLLER (includes one underside boot and clamp)	3

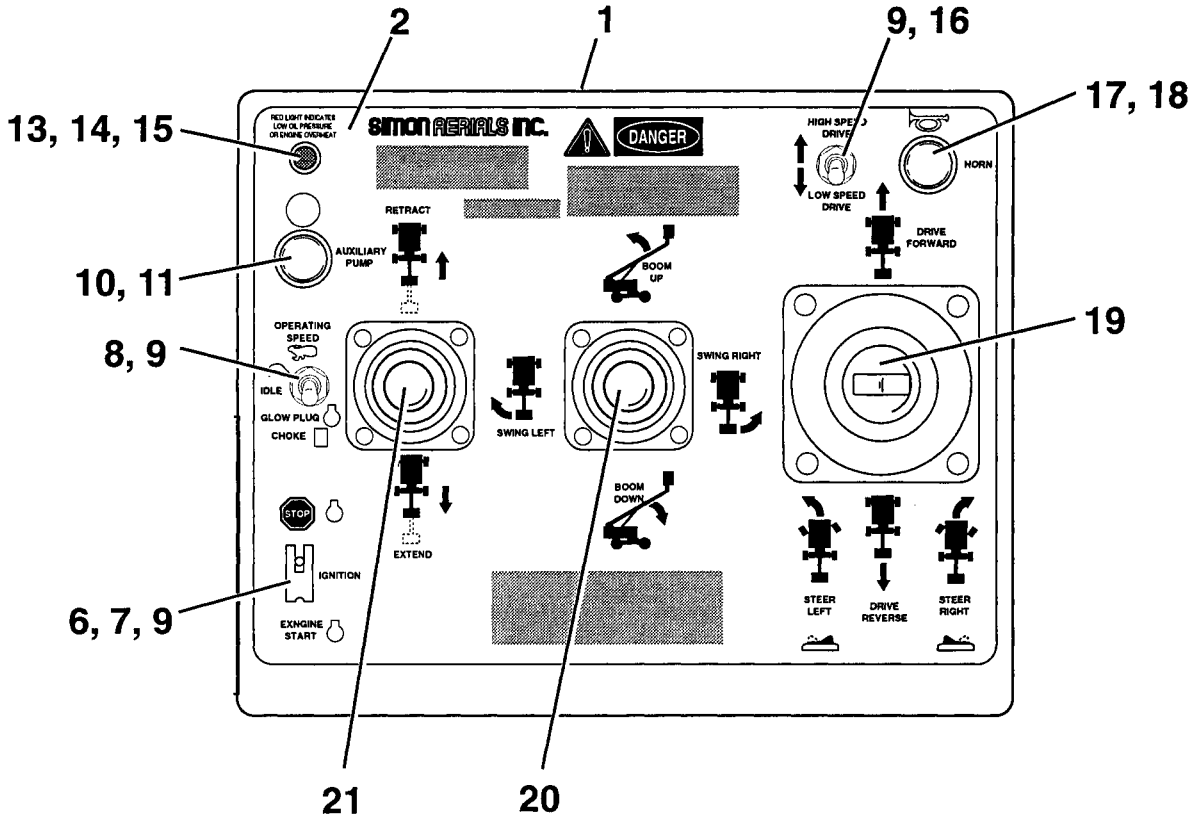
TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (2 OF 4)

Later Versions



Art # C08.17005E

Earlier Versions



TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (2 OF 4)

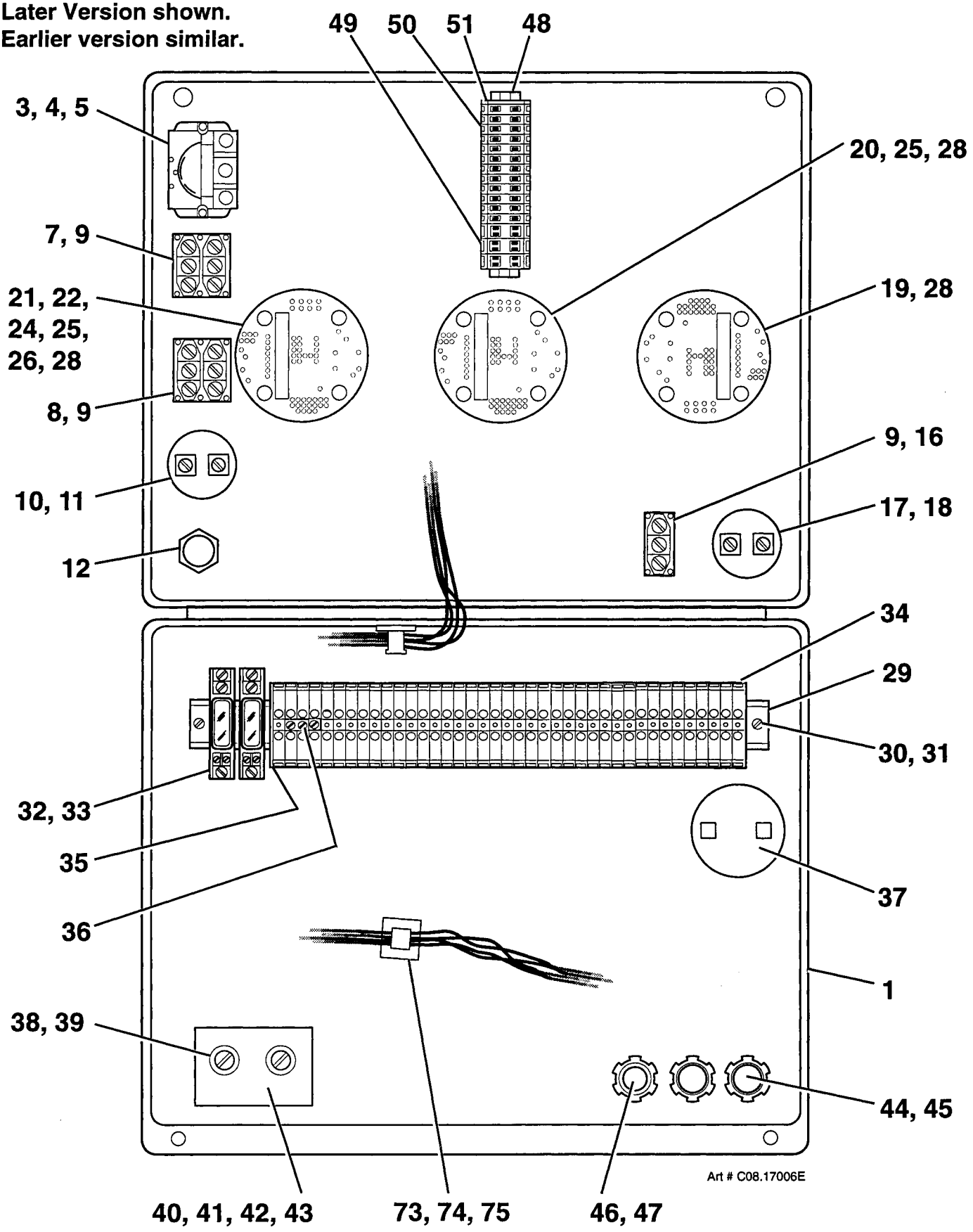
SIMON AERIALS INC.	NEW 02 DEC., 1994	PART NO.	PLATE NO. C08.17

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
29	03-051700		RAIL, TERMINAL (1-3/8" [35 mm] wide) (1 M [39.37"] long section) (12" [305 mm] long piece needed here)	1
30	07-011800		SCREW, SHEET METAL PAN HEAD (#6 x 3/4")	2
31	07-050007		NUT, STOP (#6-32, Grade 5)	2
32	03-051600		SOCKET, RELAY (Single pole, snap mount)	2
33	03-051500		RELAY, PLUG IN (12 Volt DC, single pole)	2
34	03-066200		BLOCK, TERMINAL (25 Amp, for #12 Gauge wire)	39
	03-039100		BLOCK, TERMINAL (Grounding, for #12 Gauge wire) (on some earlier versions)	2
35	03-066100		PLATE, TERMINAL BLOCK END	1
36	03-066300		BAR, JUMPER (2 pole) (Double line jumper)	A.R.
	03-067500		BAR, JUMPER (3 pole) (Triple line jumper)	A.R.
	03-707200		BAR, JUMPER (4 pole) (Quad line jumper)	A.R.
37	03-501800		ALARM (Dual tone)	1
38	03-027231		POTENTIOMETER (10 K Ohm)	2
39	03-044900		LOCK, SHAFT	2
40	2194180		BRACKET, POTENTIOMETER MOUNTING	1
41	07-011800		SCREW, SHEET METAL PAN HEAD (#6 x 3/4")	2
42	07-050007		NUT, STOP (#6-32, Grade 5)	2
43	07-090063		WASHER, EXTERNAL TOOTH (#6)	2
44	03-063200		GRIP, CORD (3/4", with .69" to .75" seal)	2
45	03-055600		NUT, CONDUIT (3/4")	2
46	03-041000		GRIP, CORD (1/2", with .38" to .44" seal)	1
47	03-055500		NUT, CONDUIT (1/2")	1
48	03-036600		RAIL, TERMINAL (5/8" [16 mm] wide) (1M [39.37"] long section. Cut to fit.)	A.R.
49	03-036500		BLOCK, TERMINAL (4 conductor, for #16 to #24 Gauge wire)	3
50	03-036400		BLOCK, TERMINAL (2 conductor, for #16 to #24 Gauge wire)	12
51	03-036700		PLATE, TERMINAL BLOCK END	1

TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (3 OF 4)

PLATE NO. C08.17 | **SIMON AERIALS INC.** NEW 02 DEC., 1994 | PART NO.



TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (3 OF 4)

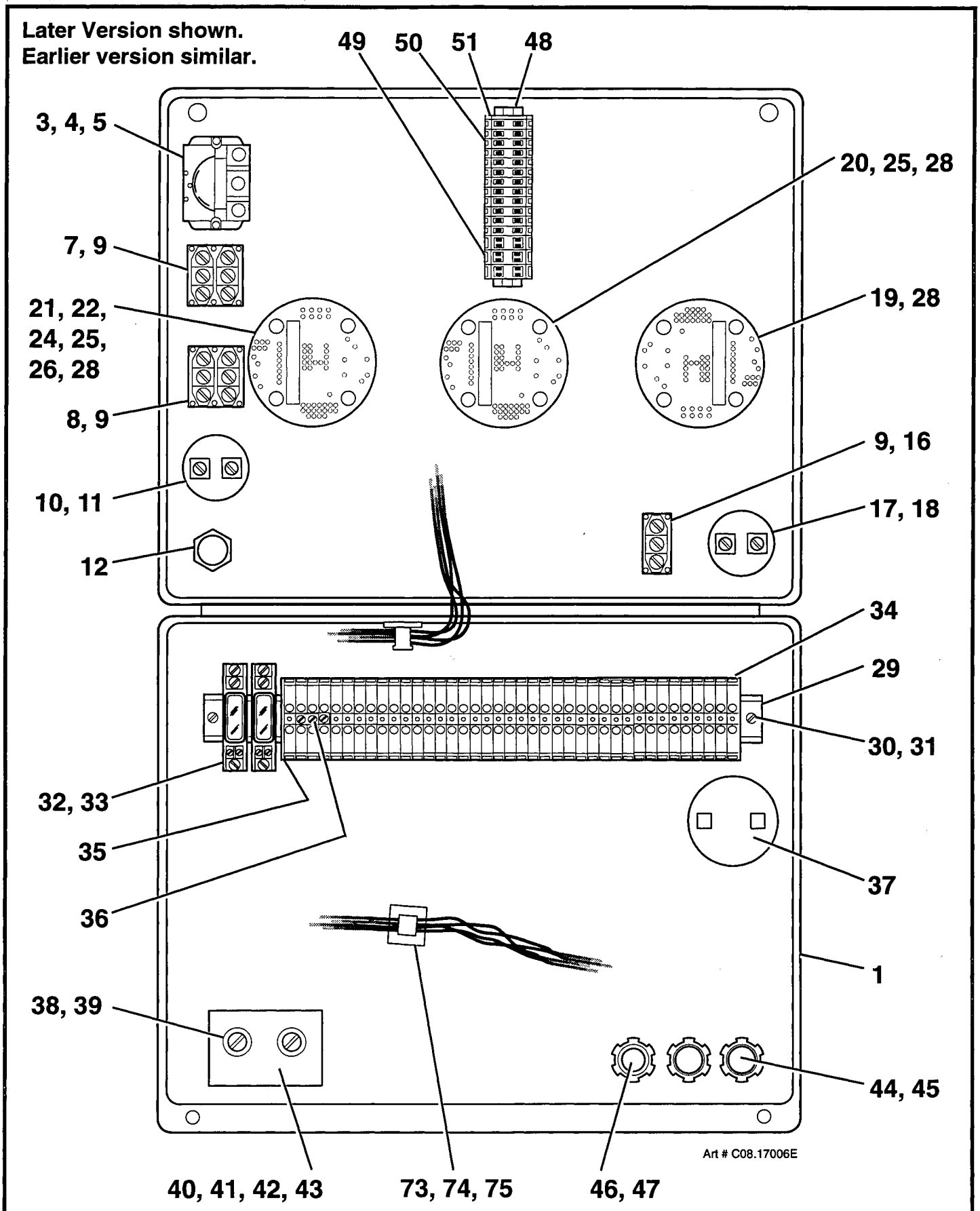
SIMON AERIALS INC.	NEW 02 DEC., 1994	PART NO.	PLATE NO. C08.17

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following hardware items, listed for your convenience, are **typically** used in Simon electrical control boxes:	
52	03-488800		CABLE, ELECTRICAL (Type F 569, 19 conductor, #16 AWG) (Bulk item, order as needed)	
53	03-446100		CABLE, ELECTRICAL (10 conductor, #18 AWG) (Bulk item, order as needed)	
54	03-088300		WIRE, ELECTRICAL (#14 AWG, Blue, stranded) (Bulk item)	
55	03-087500		WIRE, ELECTRICAL (#16 AWG, Blue, stranded) (Bulk item)	
56	03-087600		WIRE, ELECTRICAL (#16 AWG, Black, stranded) (Bulk item)	
57	03-403800		DIODE	
58	03-092200		COUPLING, INSULATED (Male, blue nylon, #14-16 AWG)	
59	03-092300		COUPLING, INSULATED (Female, blue nylon, #14-16 AWG)	
60	03-096000		TERMINAL, END (Blue, "piggyback") (#14-16 AWG)	
61	03-094600		TERMINAL, RING (Blue, #14-16 AWG, #10 stud)	
62	03-091200		TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud)	
63	03-098400		TERMINAL, END (Blue, #14-16 AWG)	
64	03-099000		CONNECTOR, BUTT (Blue, #14-16 AWG)	
65	03-098100		TERMINAL, INSULATED (Slip-on, yellow, #10-12 AWG)	
66	03-095500		TERMINAL, RING (Yellow, #10 AWG, #6 stud)	
67	03-095700		TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud)	
68	03-099100		CONNECTOR, BUTT (Yellow, #10-12 AWG)	
69	03-095900		TERMINAL, RING (Red, #8 stud)	
70	03-066800		LOOM, WIRE (1/2")	
71	03-066900		LOOM, WIRE (3/4")	
72	03-405200		TUBING, HEAT SHRINK (Clear, 3/16")	
73	03-439000		TIE, CABLE (3-5/8" [92 mm] long)	
74	03-064000		TIE, CABLE (7.4" [188 mm] long)	
75	03-064100		MOUNT, CABLE TIE (Adhesive backed)	

TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (4 OF 4)

PLATE NO. C08.17 | **SIMON AERIALS INC.** NEW 02 DEC., 1994 | PART NO.



TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (TYPE 2) (4 OF 4)

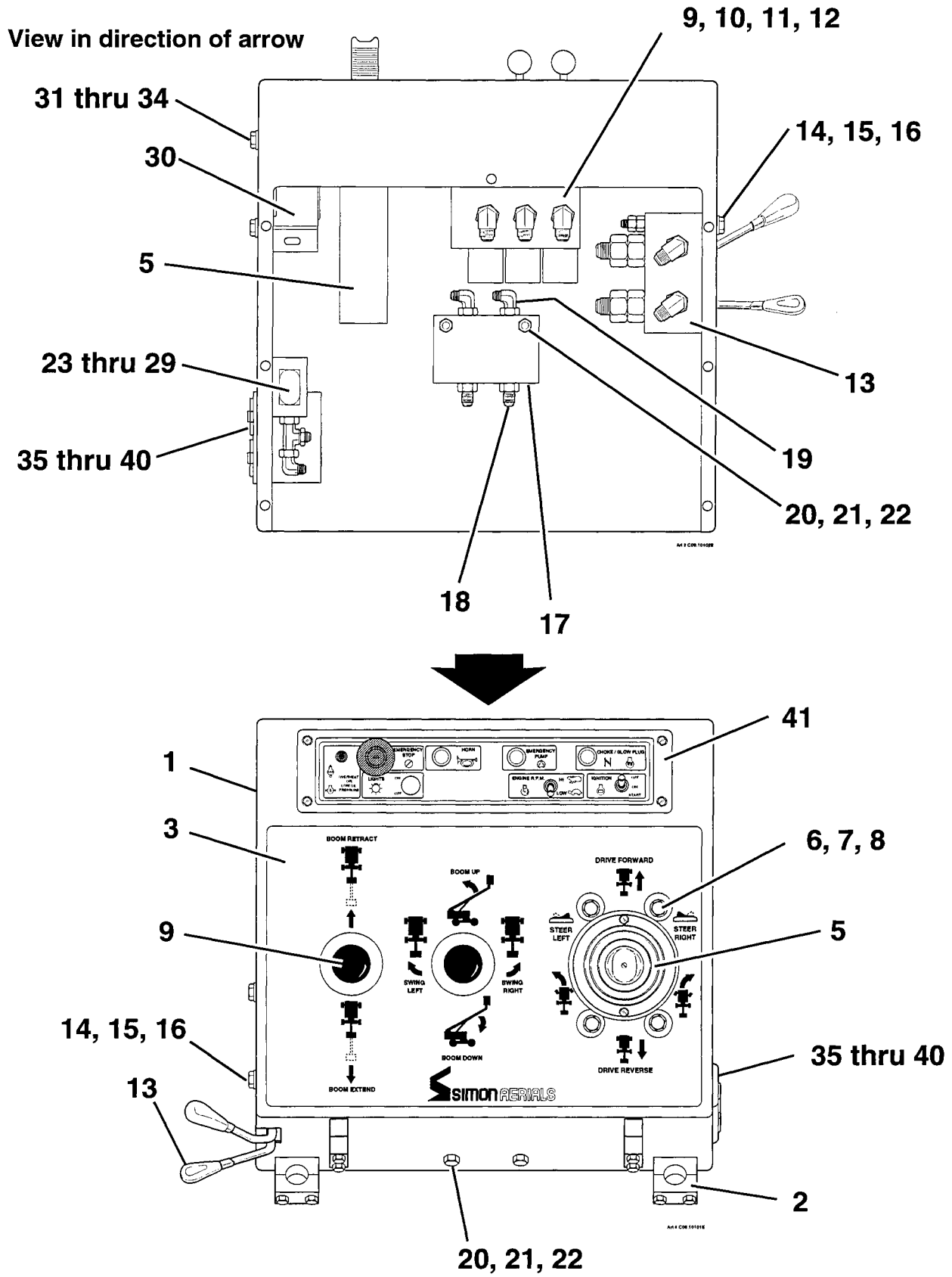
SIMON AERIALS INC.	NEW 02 DEC., 1994	PART NO.	PLATE NO. C08.17

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			PLATFORM CONSOLE ASSEMBLY	1
	353 7020		MP's with Full Hydraulic operating system	
	354 4090		Special MP 70 application	
1	219 5570		CONSOLE WELDMENT, PLATFORM	1
2	10-069600		CLAMP, TUBE (1-1/4" O.D.)	4
3			PLACARD, PLATFORM CONTROL	1
	10-145000		Standard (Lexan, as shown. Included in above ass'ys.)	
	10-241100		Optional (Stencil-cut aluminum)	
4	10-241400		SPACER (needed with aluminum control placard)	6
5	See Plate . .	D18.02	VALVE, DRIVE CONTROL	1
6	07-003022		CAP SCREW, HEX HEAD (5/16"-18 x 5/8", Grade 5)	4
7	07-062015		WASHER, FLAT (5/16")	8
8	07-050015		NUT, LOCK (5/16"-18, Grade 5)	4
9	See Plate . .	C02. - -	VALVE BANK, PLATFORM CONTROL	1
10	07-003450		CAP SCREW, HEX HEAD (5/16"-24 x 3/4", Grade 5)	4
11	07-062015		WASHER, FLAT (5/16")	4
12	07-065015		WASHER, HELICAL LOCK (5/16")	4
13	See Plate . .	D14. - -	VALVE, PLATFORM LEVEL AND ROTATE	1
14	07-003009		CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5)	2
15	07-062014		WASHER, FLAT (1/4")	4
16	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2
17	01-001900		VALVE, CHECK (Pilot operated)	1
18	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F50X-S)	2
19	06-044400		90° ELBOW, STRAIGHT THREAD (4-6 C50X-S)	2
20	07-003047		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2", Grade 5)	2
21	07-062016		WASHER, FLAT (3/8")	4
22	07-050016		NUT, LOCK (3/8"-16, Grade 5)	2
23	01-034400		VALVE, 2 WAY (includes coil)	1
24	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F50X-S)	1
25	06-048500		RUN TEE, MALE "O"-RING (6 R50X-S)	1
26	06-051500		90° ELBOW, SWIVEL NUT (6 C6X-S)	2
27	07-003008		CAP SCREW, HEX HEAD (1/4"-20 x 1-3/4", Grade 5)	2
28	07-062014		WASHER, FLAT (1/4")	4
29	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2

TITLE PLATFORM CONSOLE ASSEMBLY, MP FULL HYDRAULIC (PLATE 1 OF 4)

PLATE NO.		PART NO.
C08.21	**SIMON AERIALS INC.** REV. 15 SEP., 1995	



TITLE PLATFORM CONSOLE ASSEMBLY, MP FULL HYDRAULIC (PLATE 1 OF 4)

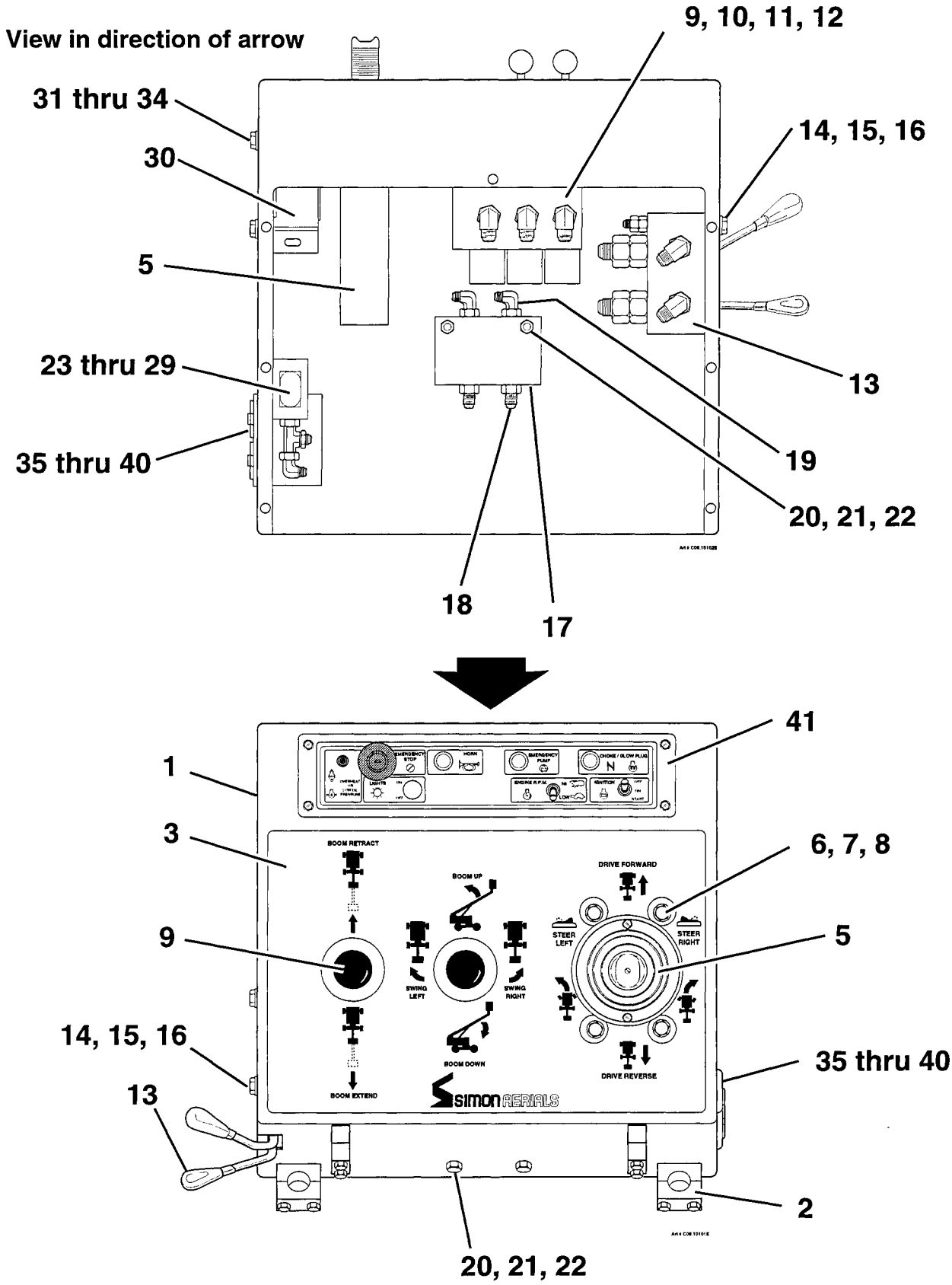
SIMON AERIALS INC. REV. 15 SEP., 1995	PART NO.	PLATE NO. C08.21

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
30			ALARM, TILT	1
	03-501800		Dual tone (current style)	
	03-464600		Earlier version, prior to 1/1/94 (**Obsolete**, use 03-501800)	
31	234 6890		BRACKET, TILT ALARM	1
32	07-003004		CAP SCREW, HEX HEAD (1/4"-20 x 7/8", Grade 5)	2
33	07-062014		WASHER, FLAT (1/4")	2
34	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2
35	03-062100		BOX, DUPLEX OUTLET (Weatherproof)	1
36	03-067000		OUTLET, DUPLEX (20 Amp, 110 Volt AC)	1
37	03-062200		COVER, DUPLEX OUTLET (Weatherproof)	1
38	07-011334		MACHINE SCREW, ROUND HEAD (#6-32 x 3/4", Grade 5)	4
39	07-062007		WASHER, FLAT (#6)	4
40	03-042000		CONNECTOR, CABLE (2 screw, 3/8")	1

TITLE PLATFORM CONSOLE ASSEMBLY, MP FULL HYDRAULIC (PLATE 2 OF 4)

PLATE NO.		PART NO.
C08.21	**SIMON AERIALS INC.** REV. 15 SEP., 1995	



TITLE PLATFORM CONSOLE ASSEMBLY, MP FULL HYDRAULIC (PLATE 2 OF 4)

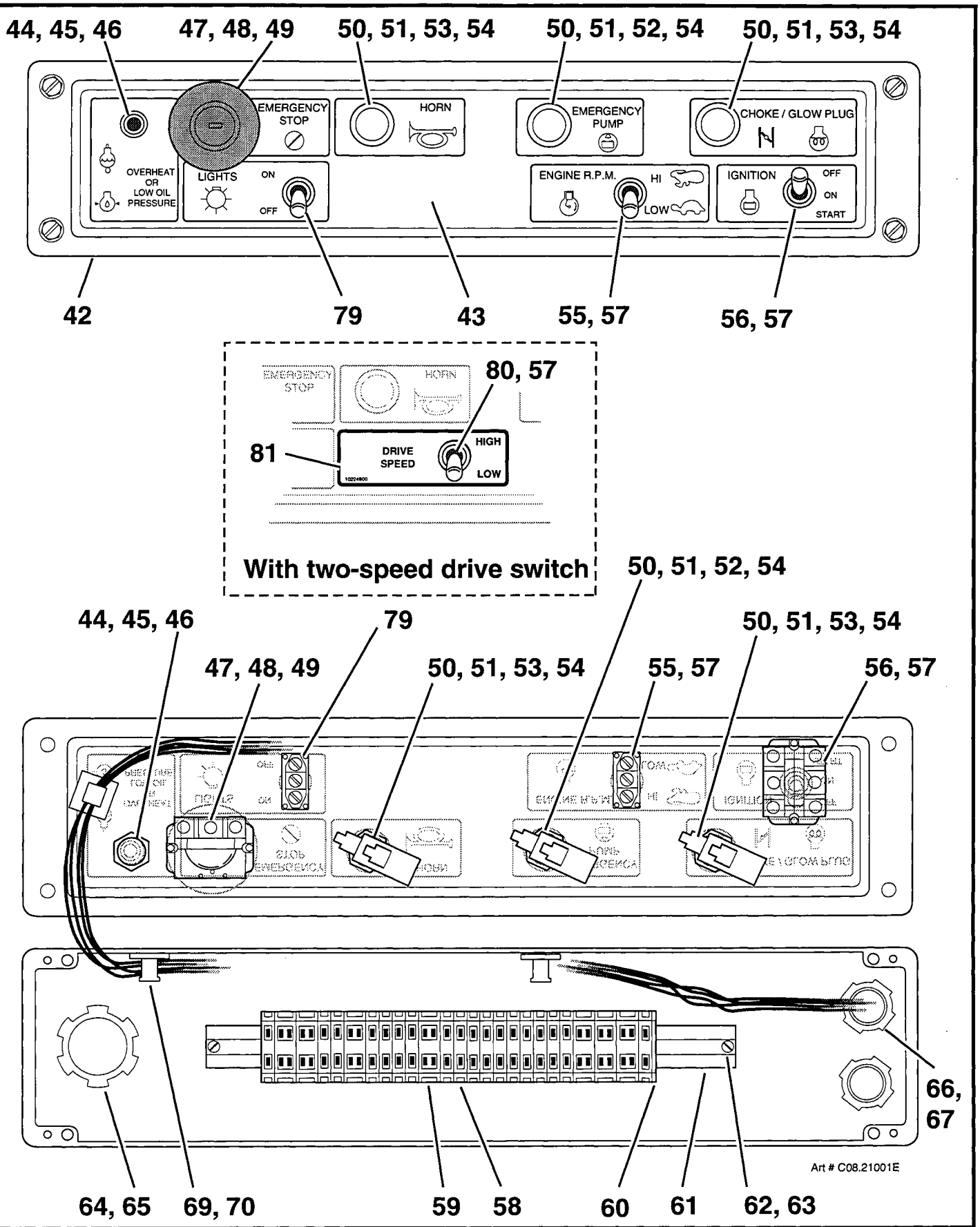
SIMON AERIALS INC. REV. 15 SEP., 1995	PART NO.	PLATE NO. C08.21

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
41			BOX ASSEMBLY, PLATFORM ELECTRICAL	1
	352 9460		Type 1 (Emergency Stop area is **red with white lettering**)	
			Type 2 (Emergency Stop area is **yellow with red lettering**)	
	353 7250		MP Series	
	354 4190		Special MP 70 application	
42			BOX, ELECTRICAL (Includes cover and screws)	1
	03-436400		Undrilled	
			Drilled, for use with decal having Emergency Stop . . .	
	219 9360		with **red** background (**Type 1**)	
			with **yellow** background (**Type 2**),	
	232 3810		for MP Series	
	235 2000		for special MP 70 application	
43			DECAL, PLATFORM ELECTRICAL BOX	1
			Area surrounding Emergency Stop button has . . .	
	10-145900		**red** background (**Type 1**).	
	10-222300		**yellow** background (**Type 2**).	
44			DIODE, BLINKING (Red L.E.D.) (Engine warning)	1
			for use with decal having having Emergency Stop . . .	
	03-481200		with **red** background (**Type 1**).	
	03-706400		with **yellow** background (**Type 2**).	
45	03-481300		HOLDER, DIODE (used only with "**Type 1**" diode)	1
46	03-481100		RESISTOR (470 Ohm) (used only with "**Type 1**" diode)	1
47			BUTTON, EMERGENCY STOP	1
	03-496000		Red and silver, "pull to release" type (Earlier style)	
	03-702000		Red, "pull to release" type (Later style)	
48	03-454900		BASE, CONTACT BLOCK	1
49			BLOCK, CONTACT (Normally closed)	1
	03-496300		Used with Button 10-496000 (Red and silver)	
	03-437300		Used with Button 10-702000 (Red)	
50	03-402500		SWITCH (10 Amp, 250 Volt AC)	A.R.
51	03-402600		SEAL, SWITCH BEZEL	A.R.
52	03-402700		BUTTON, SWITCH (Red) (Emergency Pump) **or . . .**	1
	03-402800		BUTTON, SWITCH (Blue) (Emergency Pump)	1
53	03-402800		BUTTON, SWITCH (Blue) (Horn) (Choke/ Glow Plug)	A.R.
54	10-151000		CAP (Black vinyl, 3/4" dia. x 1/2" long) (option)	A.R.
55	03-020400		SWITCH, TOGGLE (Engine throttle) (2 position,	
			maintained contact, single pole, single throw)	1
56	03-032600		SWITCH, TOGGLE (Engine start)	
			(3 position, 2 maintained and 1 momentary contact,	
			double pole, double throw)	1
57	03-506200		SEAL, TOGGLE SWITCH (option)	A.R.

TITLE PLATFORM CONSOLE ASSEMBLY, MP FULL HYDRAULIC (PLATE 3 OF 4)

PLATE NO.		PART NO.
C08.21	**SIMON AERIALS INC.** REV. 15 SEP., 1995	



TITLE PLATFORM CONSOLE ASSEMBLY, MP FULL HYDRAULIC (PLATE 3 OF 4)

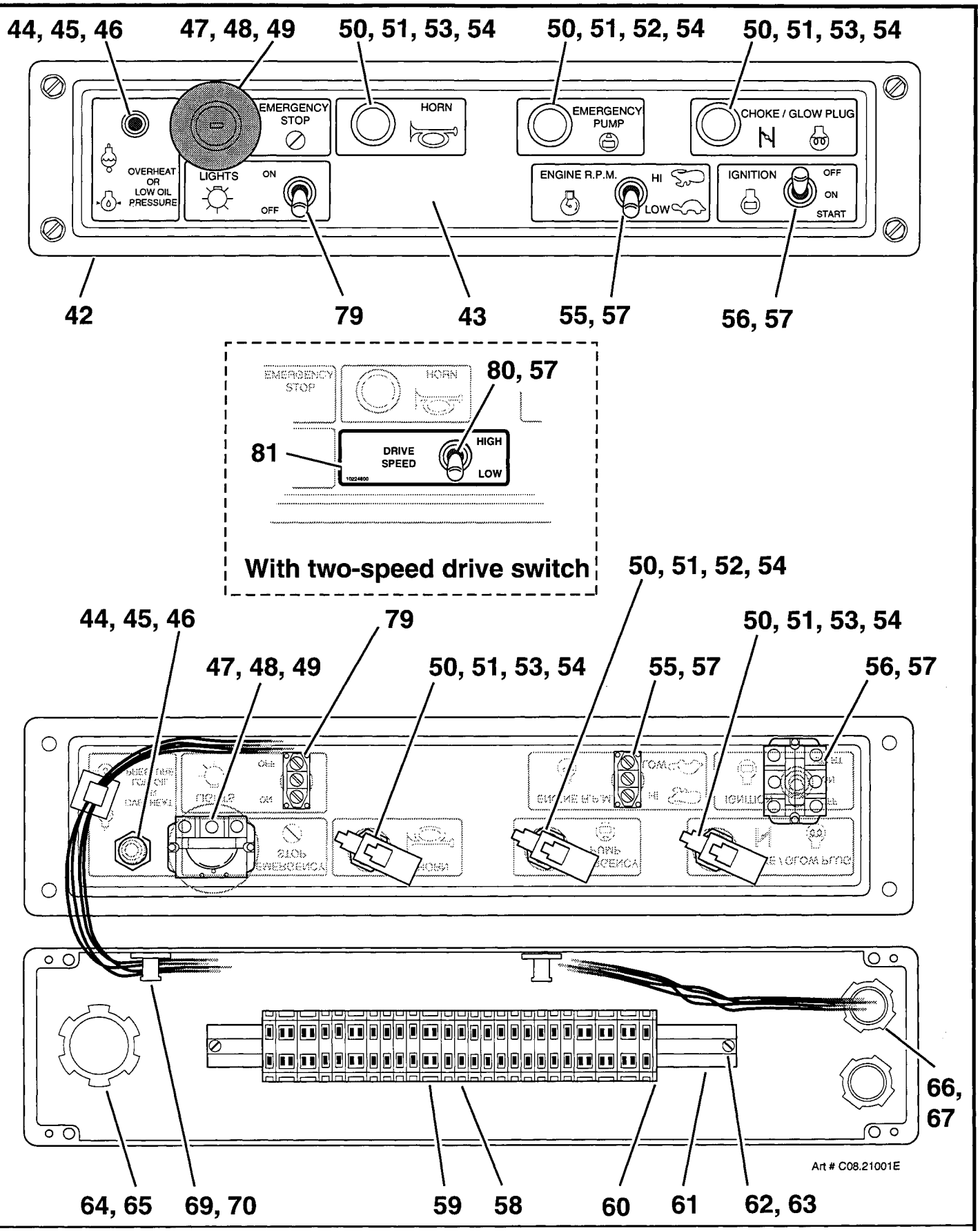
SIMON AERIALS INC.	REV. 15 SEP., 1995	PART NO.	PLATE NO. C08.21

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			BOX ASSEMBLY, PLATFORM ELECTRICAL (continued)	
58	03-036400		BLOCK, TERMINAL (2 conductor, #16-#24 ga. wire)	A.R.
59	03-036500		BLOCK, TERMINAL (4 conductor, #16-#24 ga. wire)	A.R.
60	03-036700		PLATE, TERMINAL BLOCK END	1
61	03-036600		RAIL, TERMINAL (1 M [39.37"] long section) (9" [229 mm] long piece needed for this application)	1
62			MACHINE SCREW,	2
	07-011334		ROUND HEAD (#6-32 x 3/4", Grade 2) **or . . .**	
	07-011344		PAN HEAD (#8-32 x 3/4", Grade 2)	
63	07-050007		NUT, STOP (#6-32, Grade 5) **or . . .**	2
	07-050009		NUT, STOP (#8-32, Grade 5)	2
64	03-063200		GRIP, CORD (3/4", sealing)	1
65	03-055600		NUT, CONDUIT LOCK (3/4")	1
66	03-041700		GRIP, CORD (3/8", with .31" to .38" seal) **or . . .**	2
	03-045500		GRIP, CORD (1/2", with .38" to .50" seal)	2
67	03-055700		NUT, CONDUIT LOCK (3/8") **or . . .**	2
	03-055500		NUT, CONDUIT LOCK (1/2")	2
68	03-439000		TIE, CABLE (3-5/8" [92 mm] long)	2
69	03-064000		TIE, CABLE (6-3/4" [171 mm] long)	20
70	03-064100		MOUNT, CABLE TIE (Adhesive backed)	5
71	03-091200		TERMINAL, SPADE (locking, #6 stud, #14-#16 AWG)	9
72	03-092200		COUPLING, MALE (insulated, #14-#16 AWG)	A.R.
73	03-092300		COUPLING, FEMALE (insulated, #14-#16 AWG)	A.R.
74	03-099000		TERMINAL, BUTT (Blue, #14-#16 AWG)	A.R.
75	03-497900		PLUG, PLASTIC (1/2" dia., "Panel seal", to fill unused toggle switch holes)	A.R.
76			MACHINE SCREW,	2
	07-013414		ROUND HEAD (#10-32 x 1/2", Grade 2) **or . . .**	
	07-015003		FLAT HEAD (1/4"-20 x 3/4", Grade 5)	
77	07-050111		NUT, STOP (#10-32, Grade 5) (when #10 screw is used)	2
78	07-029365		SCREW, TEK (#12-14 x 1", bonded, sealing head)	2
79	03-020400		SWITCH, TOGGLE (for optional lights) (2 position, maintained contact, single pole, single throw)	1
80	03-020400		SWITCH, TOGGLE (Drive speed) (Option) (2 position, maintained contact, single pole, single throw)	1
81	10-224800		DECAL, "DRIVE SPEED . . ." (for models with optional two-speed drive)	1

TITLE PLATFORM CONSOLE ASSEMBLY, MP FULL HYDRAULIC (PLATE 4 OF 4)

PLATE NO.		PART NO.
C08.21	**SIMON AERIALS INC.** REV. 15 SEP., 1995	



TITLE PLATFORM CONSOLE ASSEMBLY, MP FULL HYDRAULIC (PLATE 4 OF 4)

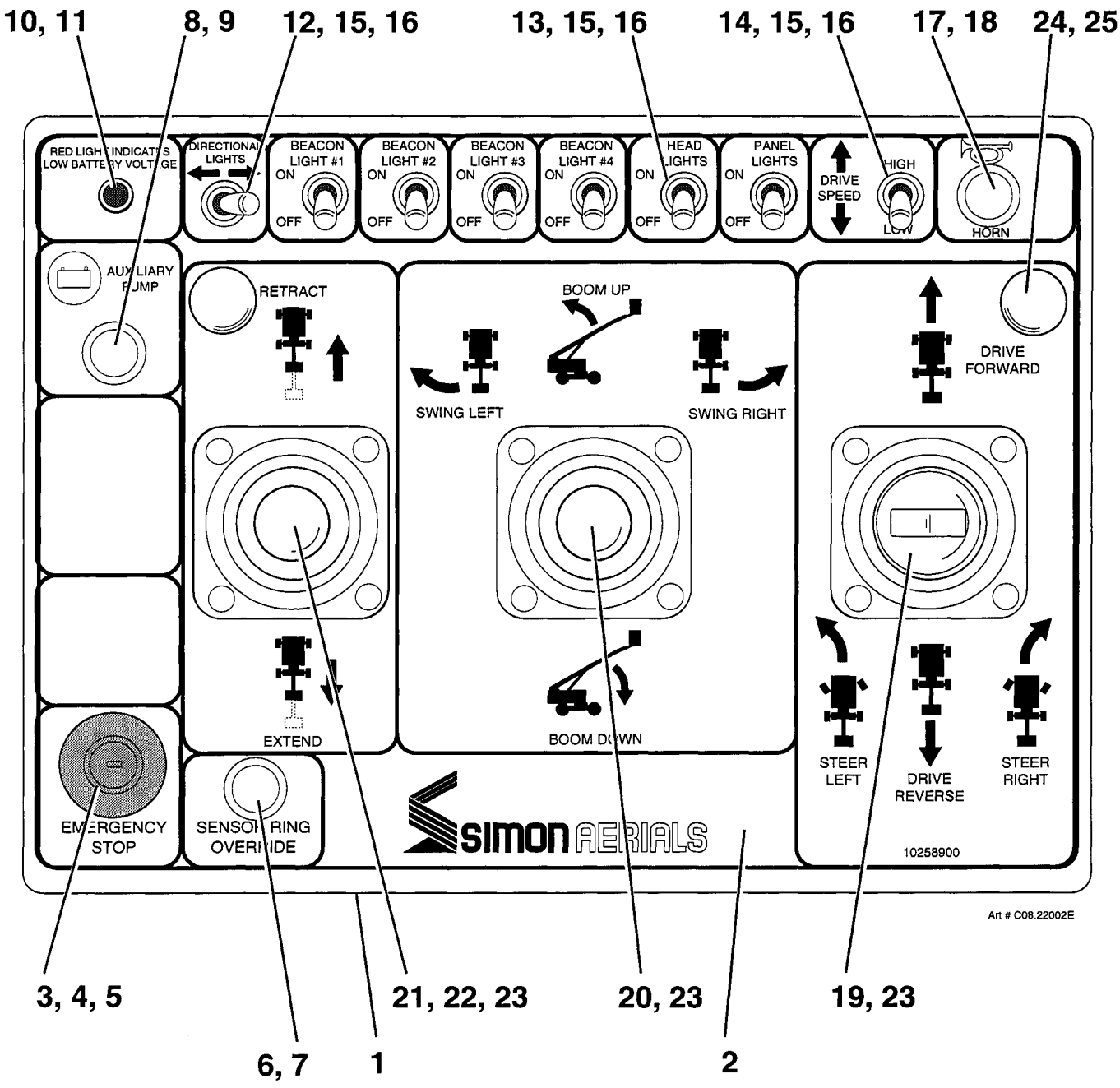
SIMON AERIALS INC.	REV. 15 SEP., 1995	PART NO.	PLATE NO. C08.21

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	234 5350		BOX, PLATFORM CONTROL	1
2	10-258900		PLACARD, PLATFORM CONTROL	1
3	03-702000		BUTTON, EMERGENCY STOP (Red "pull to release" style)	1
4	03-454900		BASE, CONTACT BLOCK	1
5	03-437300		BLOCK, CONTACT (Normally closed)	2
6	03-020300		SWITCH, PUSH BUTTON (Sensor Ring Override)	1
7	03-020301		CAP, PUSH BUTTON SWITCH (Black)	1
8	03-020300		SWITCH, PUSH BUTTON (Auxiliary pump) (includes black cap, which is not used in this application)	1
9	03-020302		CAP, PUSH BUTTON SWITCH (Red)	1
10	03-706400		DIODE, LIGHT-EMITTING (L.E.D.) (Red, 12 Volt)	1
11	03-711000		RESISTOR (2 K Ohm)	1
12	03-032600		SWITCH, TOGGLE (Directional Lights) (3 position, momentary contact, single pole, double throw)	1
13	03-020400		SWITCH, TOGGLE (Beacons, Headlights, Panel lights) (2 position, maintained contact, single pole, single throw)	6
14	03-020400		SWITCH, TOGGLE (Drive speed) (2 position, maintained contact, single pole, single throw)	1
15	03-497900		SEAL, PANEL	8
16	03-506200		BOOT, TOGGLE SWITCH	8
17	03-020300		SWITCH, PUSH BUTTON (Horn)	1
18	03-020301		CAP, PUSH BUTTON SWITCH (Black)	1
19	03-491200	E01.08	CONTROLLER, SINGLE AXIS (with rocker) (Drive/ Steer) (Identified on nameplate as "MJ **4121-1043**")	1
20	03-491100	E01.10	CONTROLLER, DUAL AXIS (Boom angle/ swing) (Identified on nameplate as "MJ **5122**-1020")	1
21	03-491000	E01.09	CONTROLLER, SINGLE AXIS (Boom extend/ retract) (Identified on nameplate as "MJ **4121**-1020")	1
22	03-493600		CARD, SWITCH (with mounting hardware) (Mounts to Extend/ Retract Controller in this application.)	1
23	03-499500		COVER KIT, CONTROLLER (includes one underside boot and clamp)	3
24	03-038800		LAMP, CONTROL PANEL (hooded)	2
25	03-418600		BULB, PANEL LAMP (12 Volt, #304)	1

TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (SPECIAL) (1 OF 3)

PLATE NO. C08.22 | **SIMON AERIALS INC.** NEW 10 FEB., 1995 | PART NO. 234 5330



TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (SPECIAL) (1 OF 3)

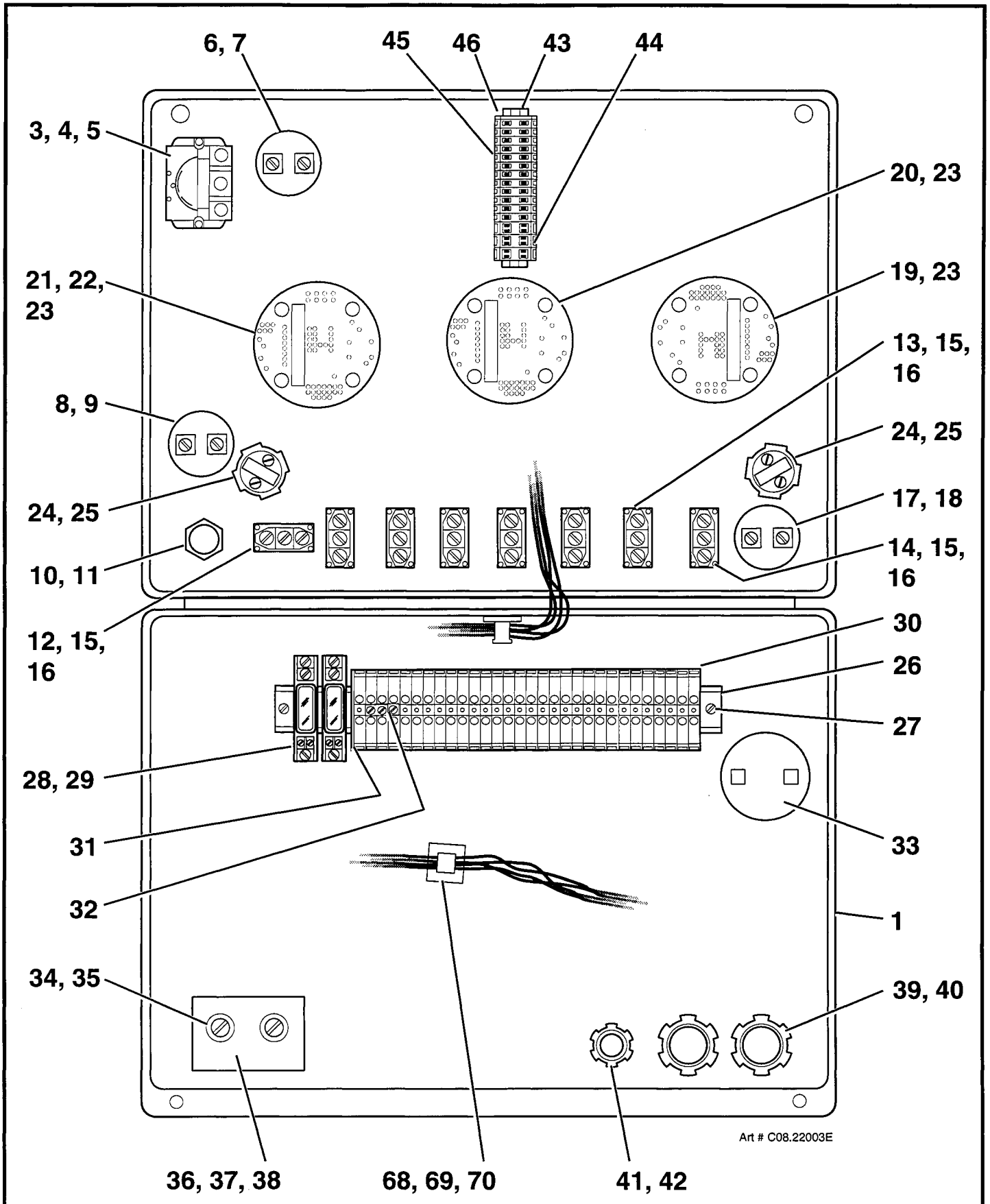
SIMON AERIALS INC. NEW 10 FEB., 1995	PART NO.	PLATE NO. C08.22

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
26	03-051700		RAIL, TERMINAL (1-3/8" [35 mm] wide) (1 M [39.37"] long section) (12" [305 mm] long piece needed this application)	1
27	07-090049		SCREW, CROSS RECESS (#8-32 x 3/8", Self-tapping)	2
28	03-051600		SOCKET, RELAY (Single pole, snap mount)	2
29	03-051500		RELAY, PLUG IN (12 Volt DC, single pole)	2
30	03-066200		BLOCK, TERMINAL (25 Amp, for #12 Gauge wire)	30
31	03-066100		PLATE, TERMINAL BLOCK END	1
32	03-066300		BAR, JUMPER (2 pole) (Double line jumper)	A.R.
	03-067500		BAR, JUMPER (3 pole) (Triple line jumper)	A.R.
	03-707200		BAR, JUMPER (4 pole) (Quad line jumper)	A.R.
33	03-501800		ALARM (Dual tone)	1
34	03-027231		POTENTIOMETER (10 K Ohm)	2
35	03-044900		LOCK, SHAFT	2
36	232 3870		BRACKET, POTENTIOMETER MOUNTING	1
37	07-011335		MACHINE SCREW, ROUND HEAD (#6 x 1/2")	2
38	07-050007		NUT, STOP (#6-32, Grade 5)	2
39	03-063200		GRIP, CORD (3/4", with .69" to .75" seal)	2
40	03-055600		NUT, CONDUIT (3/4")	2
41	03-045500		GRIP, CORD (1/2", with .31" to .38" seal)	1
42	03-055500		NUT, CONDUIT (1/2")	1
43	03-036600		RAIL, TERMINAL (5/8" [16 mm] wide) (1M [39.37"] long section) (3-1/2" [89 mm] long piece needed this application)	1
44	03-036500		BLOCK, TERMINAL (4 conductor, for #16 to #24 Gauge wire)	3
45	03-036400		BLOCK, TERMINAL (2 conductor, for #16 to #24 Gauge wire)	12
46	03-036700		PLATE, TERMINAL BLOCK END	1

TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (SPECIAL) (2 OF 3)

PLATE NO. C08.22 | **SIMON AERIALS INC.** NEW 10 FEB., 1995 | PART NO. 234 5330



TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (SPECIAL) (2 OF 3)

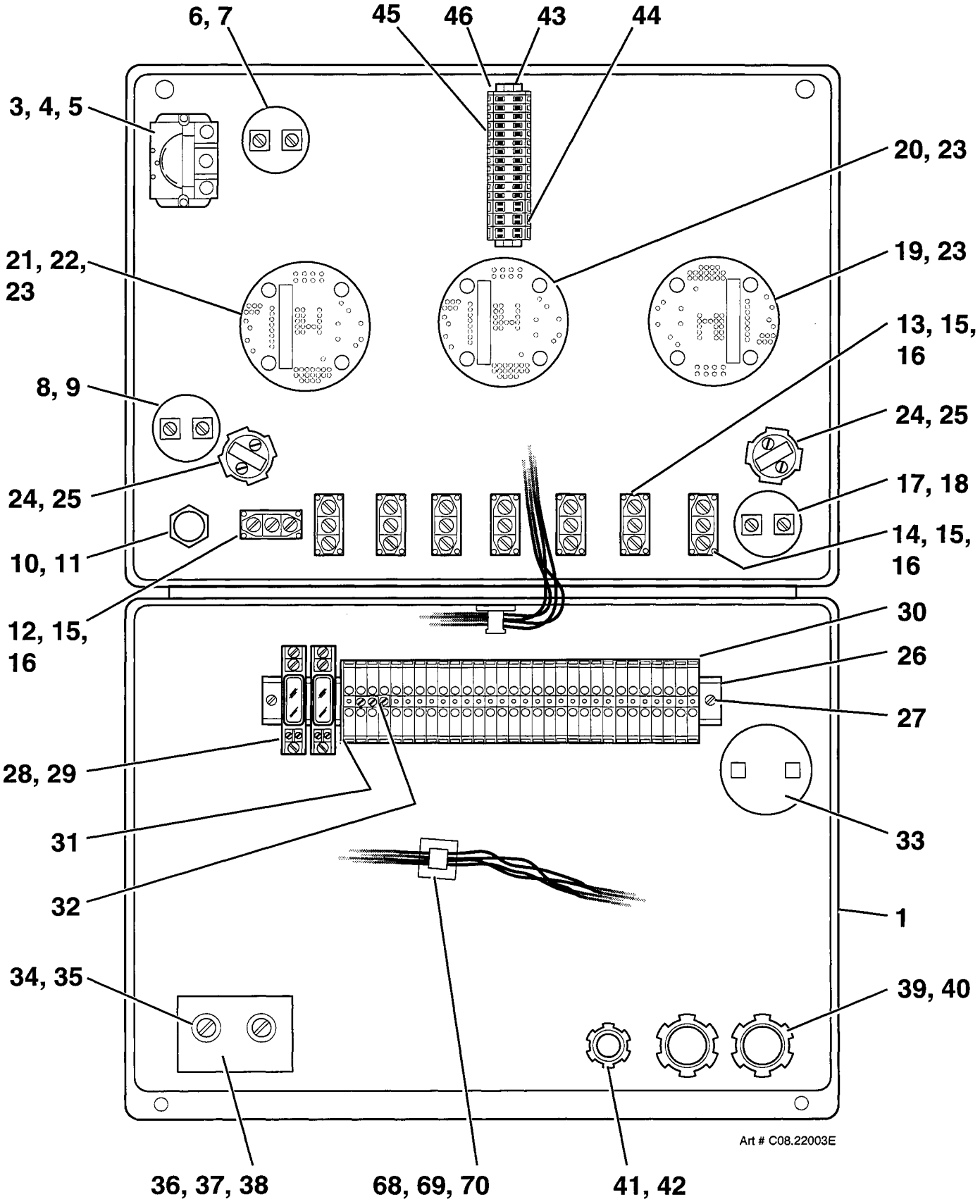
SIMON AERIALS INC. NEW 10 FEB., 1995	PART NO.	PLATE NO. C08.22

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following hardware items, listed for your convenience, are **typically** used in Simon electrical control boxes:	
47	03-488800		CABLE, ELECTRICAL (Type F 569, 19 conductor, #16 AWG) (Bulk item, order as needed)	
48	03-446100		CABLE, ELECTRICAL (10 conductor, #18 AWG) (Bulk item, order as needed)	
49	03-088300		WIRE, ELECTRICAL (#14 AWG, Blue, stranded) (Bulk item)	
50	03-087500		WIRE, ELECTRICAL (#16 AWG, Blue, stranded) (Bulk item)	
51	03-087600		WIRE, ELECTRICAL (#16 AWG, Black, stranded) (Bulk item)	
52	03-403800		DIODE	
53	03-092200		COUPLING, INSULATED (Male, blue nylon, #14-16 AWG)	
54	03-092300		COUPLING, INSULATED (Female, blue nylon, #14-16 AWG)	
55	03-096000		TERMINAL, END (Blue, "piggyback") (#14-16 AWG)	
56	03-094600		TERMINAL, RING (Blue, #14-16 AWG, #10 stud)	
57	03-091200		TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud)	
58	03-098400		TERMINAL, END (Blue, #14-16 AWG)	
59	03-099000		CONNECTOR, BUTT (Blue, #14-16 AWG)	
60	03-098100		TERMINAL, INSULATED (Slip-on, yellow, #10-12 AWG)	
61	03-095500		TERMINAL, RING (Yellow, #10 AWG, #6 stud)	
62	03-095700		TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud)	
63	03-099100		CONNECTOR, BUTT (Yellow, #10-12 AWG)	
64	03-095900		TERMINAL, RING (Red, #8 stud)	
65	03-066800		LOOM, WIRE (1/2")	
66	03-066900		LOOM, WIRE (3/4")	
67	03-405200		TUBING, HEAT SHRINK (Clear, 3/16")	
68	03-439000		TIE, CABLE (3-5/8" [92 mm] long)	
69	03-064000		TIE, CABLE (7.4" [188 mm] long)	
70	03-064100		MOUNT, CABLE TIE (Adhesive backed)	

TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (SPECIAL) (3 OF 3)

PLATE NO. C08.22 | **SIMON AERIALS INC.** NEW 10 FEB., 1995 | PART NO. 234 5330



TITLE PLATFORM CONSOLE, ELECTRO-PROPORTIONAL (SPECIAL) (3 OF 3)

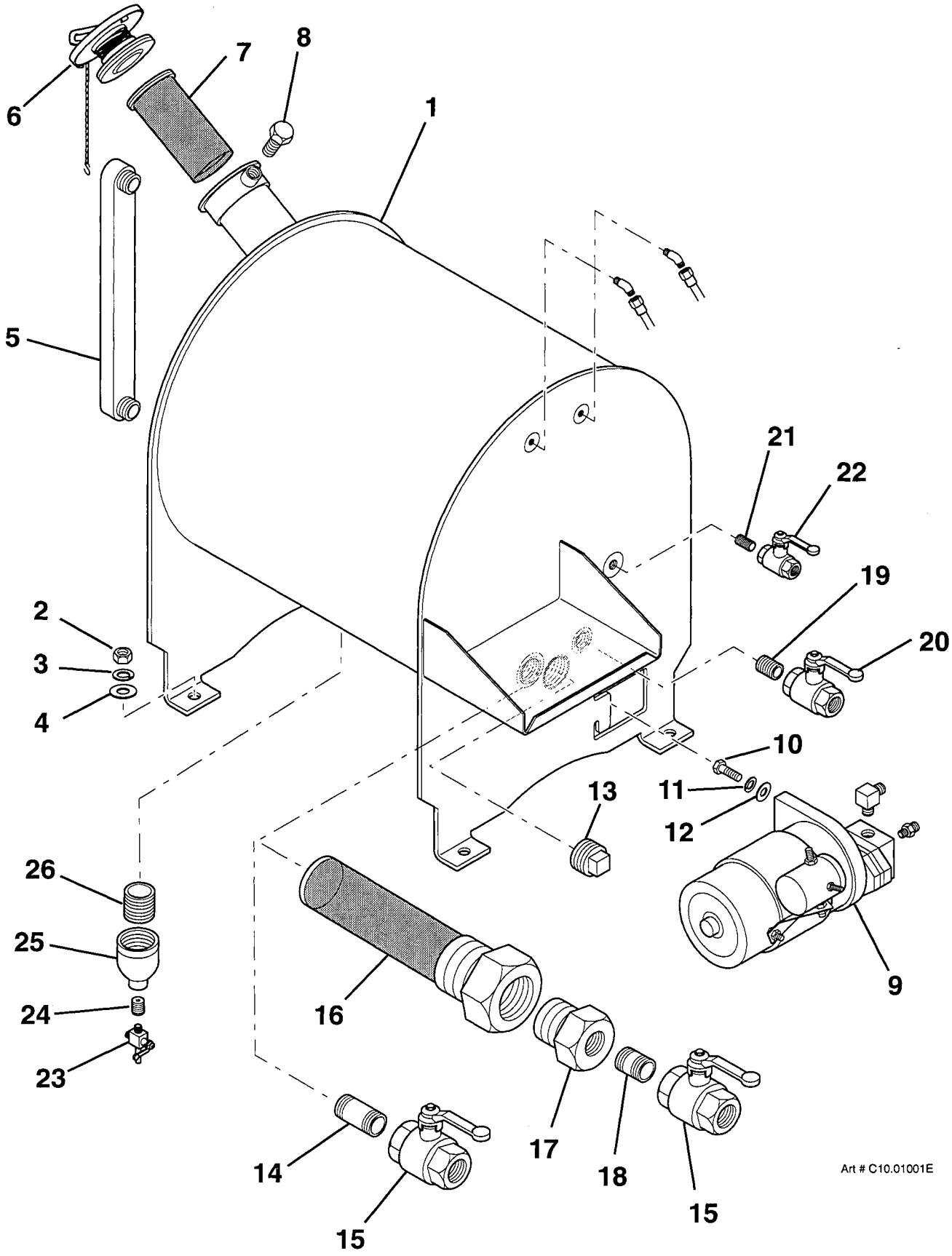
SIMON AERIALS INC. NEW 10 FEB., 1995	PART NO.	PLATE NO. C08.22

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			TANK, HYDRAULIC (Capacity 35.3 gallons [133.6 liters])	1
			Standard tank:	
			Tank is 32" (.8 M) high x 24-1/4" (.62 M) long:	
	200 3104		Battery tray measures **7-1/2" x 12-7/8"** (190 x 327 mm).	
			Has **1-1/2" and 2" NPT flanges** under battery tray.	
			Has **no NPT fitting on underside** for drain.	
			Optional tanks:	
			Tank is 32" (.8 M) high x 24-1/4" (.62 M) long:	
	217 7150		Battery tray measures **7-1/2" x 12-7/8"** (190 x 327 mm).	
			Has **(2) 1" and (2) 1-1/2" NPT flanges** under tray.	
			Has **2" NPT fitting on underside** for drain.	
	216 5650		**No battery tray.** Has **(2) 1" and (2) 1-1/2" NPT flanges.**	
			Has **2" NPT fitting on underside** for drain.	
	218 2670		Battery tray measures **8" x 17-3/8"** (203 x 441 mm).	
			Has **4" NPT flange** under tray for optional strainer.	
			Has **2" NPT fitting on underside** for drain.	
			Tank is 25-1/4" (.64 M) high x 24-1/4" (.62 M) long:	
	209 7073		Has **1-1/2" and 2" NPT flanges.** Has **no battery tray.**	
			Has **no NPT fitting on underside** for drain.	
			Tank is 32" (.8 M) high x 18-1/2" (.47 M) long:	
	231 2960		Has **(2) 1-1/2" NPT flanges.** Has **no battery tray.**	
			Has **no NPT fitting on underside** for drain.	
2	07-040018		NUT, HEX (1/2"-13, Grade 5)	4
3	07-065018		WASHER, HELICAL LOCK (1/2")	4
4	07-062018		WASHER, FLAT (1/2")	8
5	10-033800	D12.05	GAUGE, SIGHT (14" [35.56 cm] long)	1
6	10-002100		CAP, HYDRAULIC TANK FILLER	1
7	10-001000		STRAINER ASSEMBLY	1
8	01-008200		PLUG, VENT (with 40 micron filter)	1
9	See Index .	D07. - -	PUMP, EMERGENCY HYDRAULIC	1
10	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	2
11	07-065016		WASHER, HELICAL LOCK (3/8")	2
12	07-062016		WASHER, FLAT (3/8")	2
13	11-050050		PLUG, SQUARE HEAD (2" NPT) (when 1-1/2" ball valve is used, on tanks without optional suction strainer)	1
	11-075100		PLUG, SQUARE HEAD (1-1/2" NPT) (when 2" ball valve is used, on tanks without optional suction strainer)	1
14	11-075800		NIPPLE, PIPE (1-1/2" NPT, 3" long)	1
	11-020016		NIPPLE, PIPE (2" NPT, 2-1/2" long) (some applications)	1
15	01-063000		VALVE, BALL (Shutoff valve) (1-1/2" NPT)	1
	01-018400		VALVE, BALL (Shutoff valve) (2" NPT) (some applications)	1
16	01-200900		STRAINER, SUCTION (option)	1

TITLE HYDRAULIC TANK ASSEMBLY, MP SERIES (W/O EXTENDABLE AXLES)

PLATE NO.			PART NO.
C10.01	**SIMON AERIALS INC.**	REV. 08 SEP., 1995	



TITLE HYDRAULIC TANK ASSEMBLY, MP SERIES (W/O EXTENDABLE AXLES)

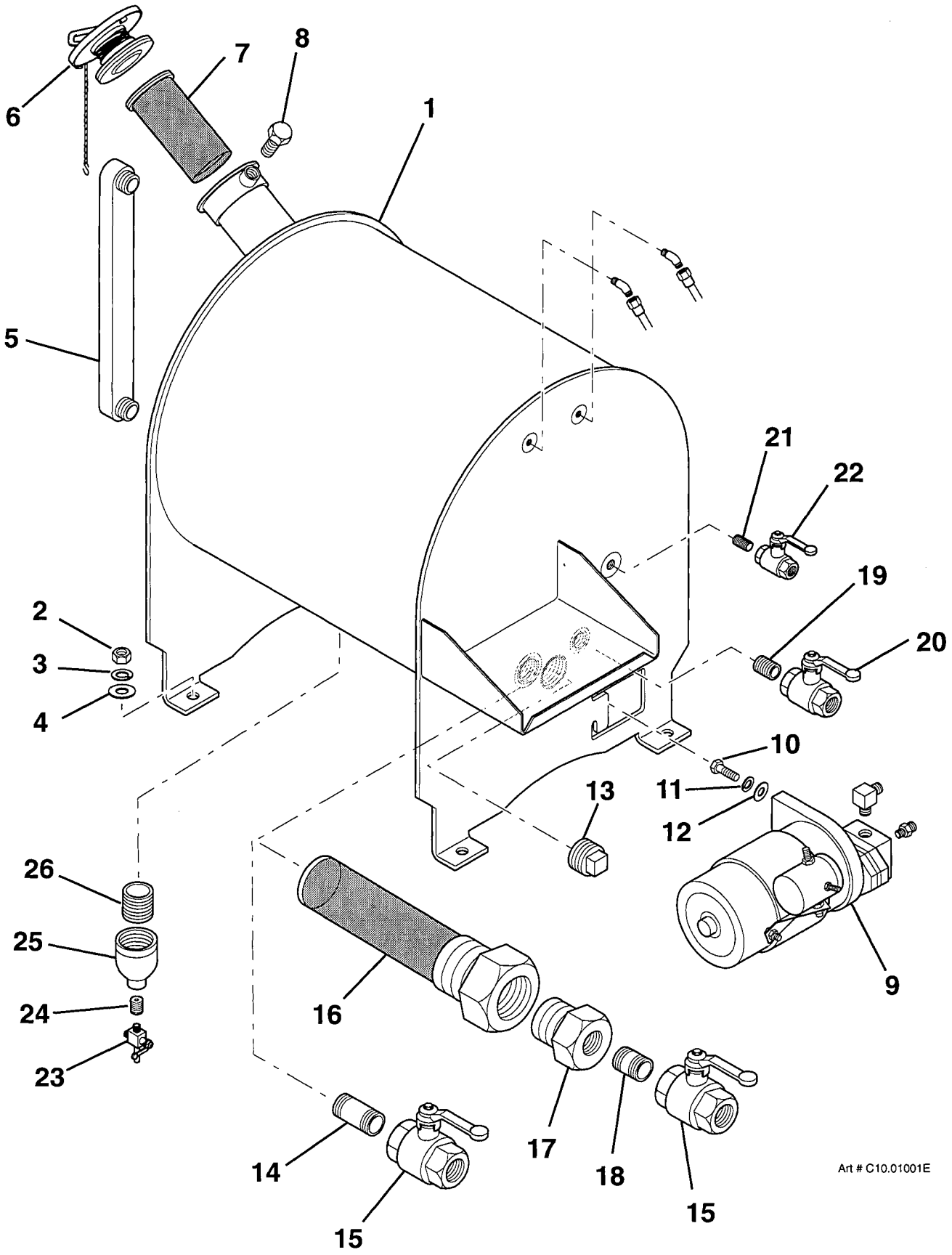
SIMON AERIALS INC. REV. 08 SEP., 1995	PART NO.	PLATE NO. C10.01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
17	11-085000		BUSHING, REDUCER (3" to 1-1/2") (with optional strainer)	1
	- - -		BUSHING, REDUCER (3" to 2") (with optional strainer)	1
18	11-071500		CLOSE NIPPLE (1-1/2") (with optional strainer)	1
	11-020017		CLOSE NIPPLE (2") (with optional strainer)	1
19	11-020014		CLOSE NIPPLE, PIPE (1" NPT)	1
20	01-068500		VALVE, BALL (Shutoff valve) (1" NPT)	1
21	11-203200		NIPPLE, PIPE (1/2" x 1-1/8")	1
22	01-002800		VALVE, BALL (Shutoff valve) (1/2" NPT)	1
23	01-015800		DRAIN COCK (Brass, 1/2" NPT) (option)	1
24	11-020019		CLOSE NIPPLE (1/2")	1
25	11-061900		REDUCER, BELL (2" x 1/2")	1
26	11-020017		CLOSE NIPPLE (2")	1
			The following items may be found on a typical installation:	
27	01-226000		FILTER, HIGH PRESSURE (10 micron, #6 SAE ports)	1
28	03-466900		HEATER, TANK (120 Volt AC) (option, not shown)	1
29	06-040500		ADAPTER, "O"-RING TO 37° (10-8 F5OX-S)	1
30	06-039800		ADAPTER, "O"-RING TO 37° (6 F5OX-S)	1
31	06-039500		ADAPTER, "O"-RING TO 37° (4-6 F5OX-S)	1
32	06-197000		CONNECTOR, HOSE (Beaded) (2" NPT, for 2" hose)	1
33	06-191500		CONNECTOR, HOSE (Beaded) (1-1/2" NPT, 1-1/2" hose)	1
34	06-002000		CONNECTOR, MALE (12-16 FTX-S)	1
35	06-001700		CONNECTOR, MALE (12-8 FTX-S)	1
36	06-001800		CONNECTOR, MALE (12 FTX-S)	1
37	06-079000		CONNECTOR, SWIVEL NUT (6 F65OX-S)	1
38	11-050001		90° ELBOW, FEMALE PIPE (2")	1
39	11-050002		90° ELBOW, FEMALE PIPE (1-1/2")	1
40	11-050023		90° STREET ELBOW (1-1/2")	1
41	06-004100		90° ELBOW, MALE 37° TO NPT (6-8 CTX-S)	1
42	06-003800		90° ELBOW, MALE 37° TO NPT (6 CTX-S)	1
43	06-003500		90° ELBOW, MALE 37° TO NPT (4-4 CTX-S)	1
44	06-045500		90° ELBOW, "O"-RING TO 37° (12-10 C5OX-S)	1
45	06-045100		90° ELBOW, "O"-RING TO 37° (10-8 C5OX-S)	1
46	06-044600		90° ELBOW, "O"-RING TO 37° (6 C5OX-S)	1
47	06-044400		90° ELBOW, "O"-RING TO 37° (4-6 C5OX-S)	1
48	06-051800		90° ELBOW, SWIVEL NUT (12 C6X-S)	1
49	06-080500		90° STREET ELBOW (1/2 CD-S)	1
50	11-020017		CLOSE NIPPLE (2")	1
51	11-075300		TEE, FEMALE PIPE THREAD (1-1/2 x 1-1/2 x 3/4)	1
52	06-054800		RUN TEE, 37° FEMALE SWIVEL NUT (12 R6X-S)	1
53	06-056300		BRANCH TEE, MALE SWIVEL NUT (12 S6X-S)	1
54	06-074900		ADAPTER TEE, PIPE THREAD (1/2 MRO)	1

TITLE HYDRAULIC TANK ASSEMBLY, MP SERIES (W/O EXTENDABLE AXLES)

PLATE NO.			PART NO.
C10.01	**SIMON AERIALS INC.**	REV. 08 SEP., 1995	



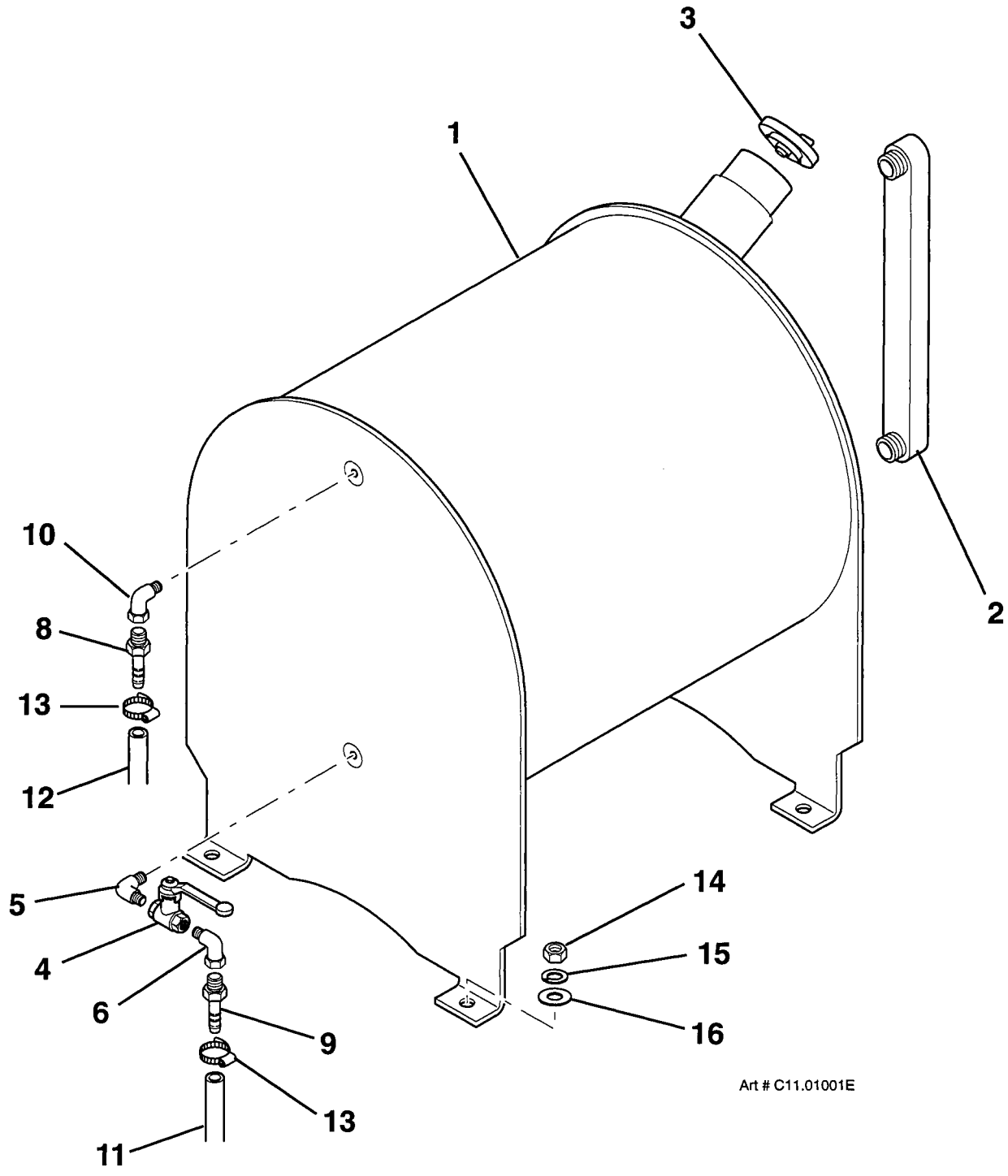
TITLE HYDRAULIC TANK ASSEMBLY, MP SERIES (W/O EXTENDABLE AXLES)

SIMON AERIALS INC. REV. 08 SEP., 1995	PART NO.	PLATE NO. C10.01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			TANK ASSEMBLY, FUEL	1
	3500763		Standard tank assembly for Gasoline engines	
	3500781		Standard tank assembly for Diesel engines	
1			TANK WELDMENT, FUEL	
			[Capacity 35.3 gallons (133.6 liters)]	1
	2003034		**Standard tank:** overall height is 32" (.81 M)	
	2097060		**Optional tank:** overall height is 25-1/4" (.64 M)	
2	10-033800	D12.05	GAUGE, SIGHT [14" (35.56 cm) long]	1
3	10-001900		CAP, FUEL TANK FILLER (Vented, Anti-surge)	1
4	01-032800		VALVE, SHUTOFF (1/4" NPT)	1
			The following items may be found on a typical installation:	
5	06-082500		ELBOW, PIPE THREAD ADAPTER (1/4 CR-S)	1
6	06-080200		ELBOW, STRAIGHT/ PIPE THREAD (1/4 CD-S)	1
7	06-000400		CONNECTOR, MALE (4-4 FTX-S)	1
8	11-050401		FITTING, HOSE	
			(Brass, barbed, 1/4" I.D. hose, 1/4" male NPT thread)	1
9	11-050403		FITTING, HOSE	
			(Brass, barbed, 5/16" I.D. hose, 1/4" male NPT thread)	1
10	06-080200		90° STREET ELBOW (1/4 CD-S) (for Diesel engine)	1
			PLUG (except Diesel engine)	1
	11-075400		SQUARE HEAD (1/4" NPT) (option with 06-079800)	
	06-079800		HEX SOCKET NPT (1/4 HHP-S) (option with 11-075400)	
			The items listed below **are not** part of Fuel Tank Assembly:	
11			HOSE, FUEL FEED (5/16" I.D.)	A.R.
12			HOSE, FUEL RETURN (1/4" I.D.)	A.R.
13	09-004600		CLAMP, HOSE (Worm type, 1/4" to 5/8")	2
14	07-040018		NUT, HEX (1/2"-13, Grade 5)	4
15	07-065018		WASHER, LOCK (1/2")	4
16	07-062018		WASHER, FLAT (1/2")	4

TITLE	FUEL TANK ASSEMBLY, MP SERIES (W/O EXTENDABLE AXLES)			
PLATE NO.	C11.01	**SIMON AERIALS INC.**	REV. 29 JUN., 1994	PART NO.

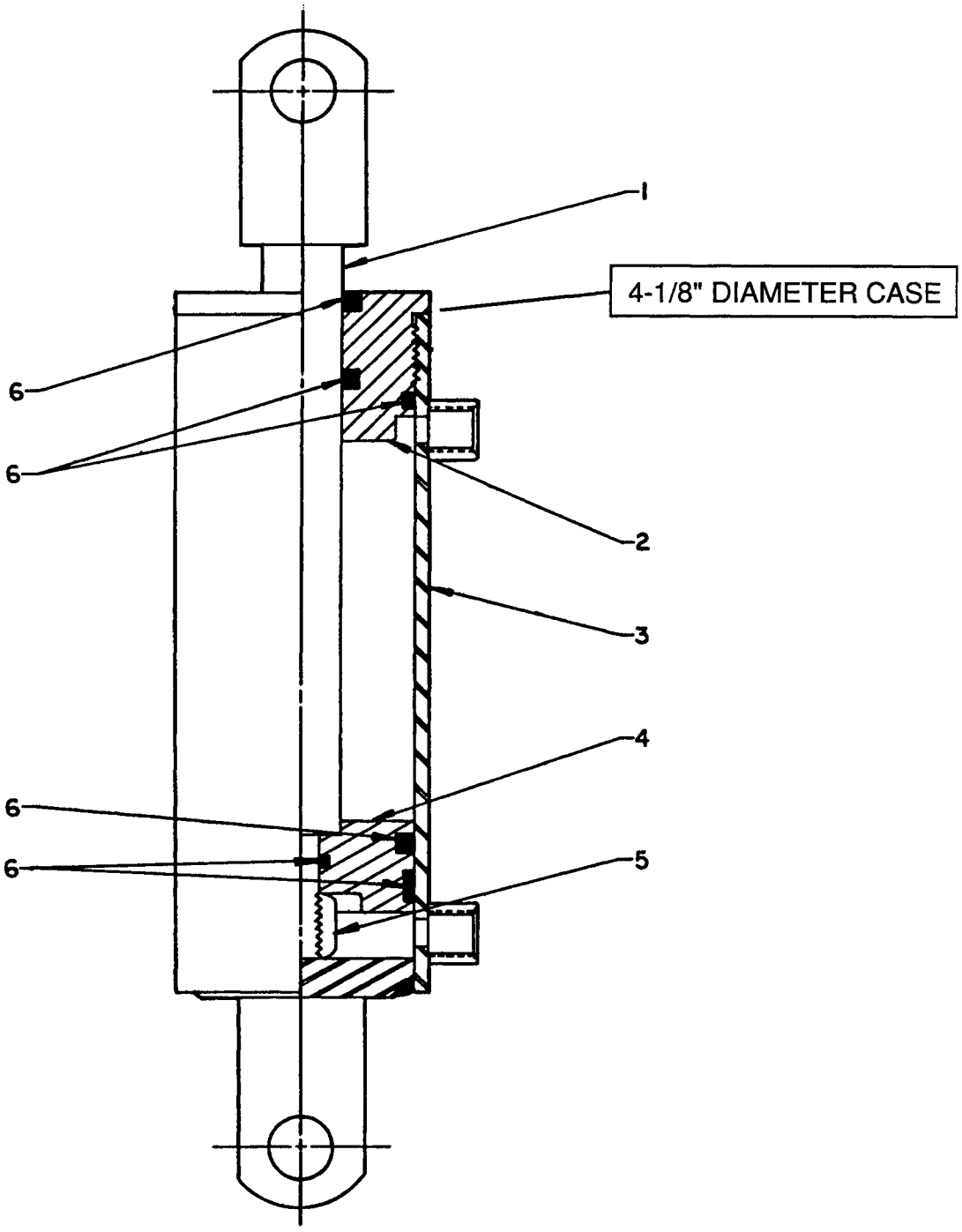


TITLE	FUEL TANK ASSEMBLY, MP SERIES (W/O EXTENDABLE AXLES)		
SIMON AERIALS INC.	REV. 29 JUN., 1994	PART NO.	PLATE NO. C11.01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	04-008902		ROD ASSEMBLY, PISTON (includes clevis)	1
2	04-008903		GUIDE, PISTON ROD (Head gland)	1
3			BODY, CYLINDER (Case)	1
4	04-008904		PISTON	1
5			NUT, LOCK	1
6	04-008901		SEAL KIT	1

TITLE	STEER CYLINDER			
PLATE NO. D01.01	**SIMON AERIALS INC.**	REV. 10/01/90	PART NO.	04-008900

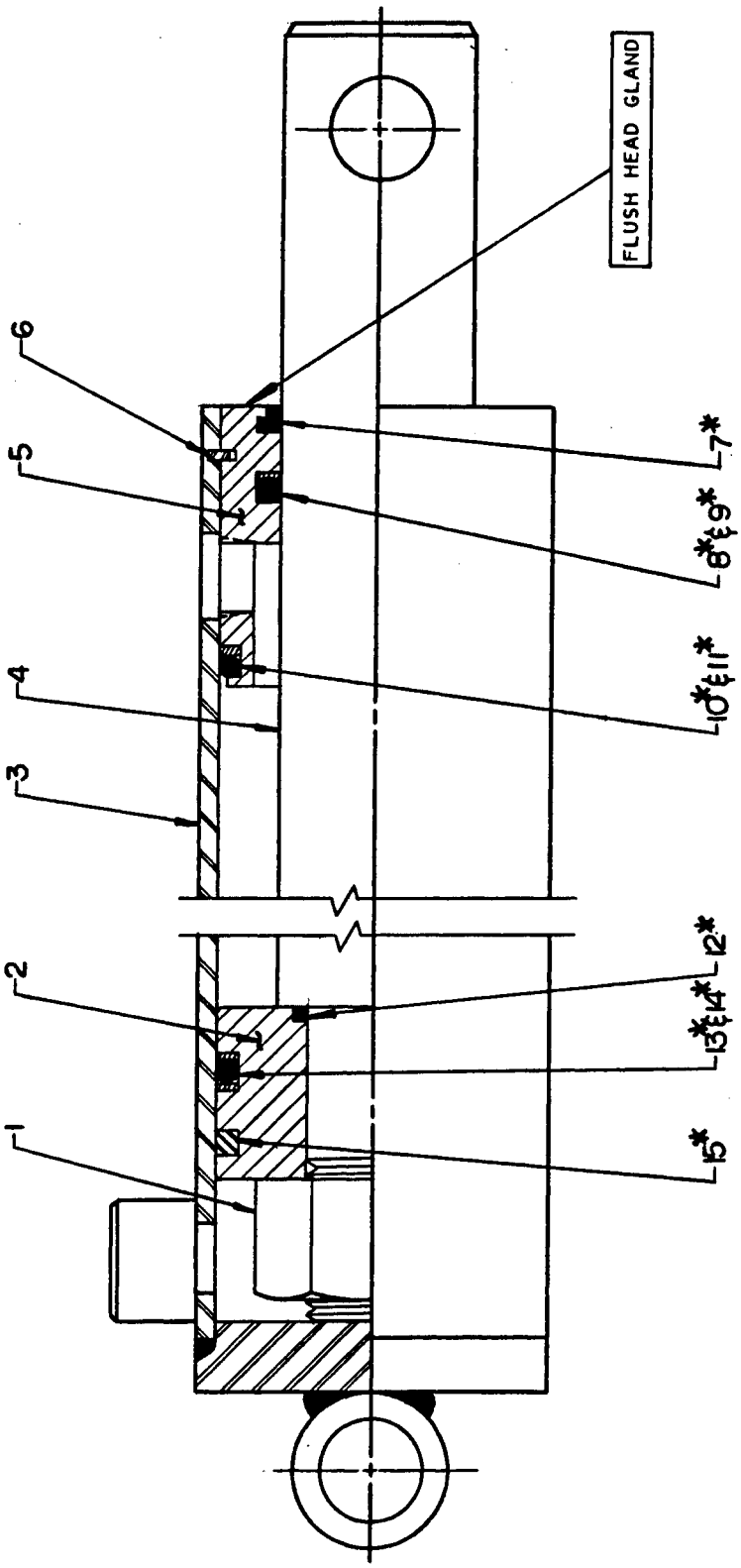


TITLE	STEER CYLINDER		
SIMON AERIALS INC. REV. 08/01/90	PART NO. 04-008900	PLATE NO. D01.01	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			PISTON NUT	1
2			PISTON	1
3			CASE	1
4	04-001702		ROD	1
5			HEAD GLAND	1
6			SNAP RING	1
7*			WIPER	1
8*			'O' RING	1
9*			BACK-UP RING	1
10*			'O' RING	1
11*			BACK-UP RING	1
12*			'O' RING	1
13*			'O' RING	1
14*			BACK-UP RING	2
15*			PISTON RING	1
*	04-001701		SEAL KIT	

DESCRIPTION	PART NO.
STEER CYLINDER	04-001700



NOTE:
* SEAL KIT P/N 04-001701

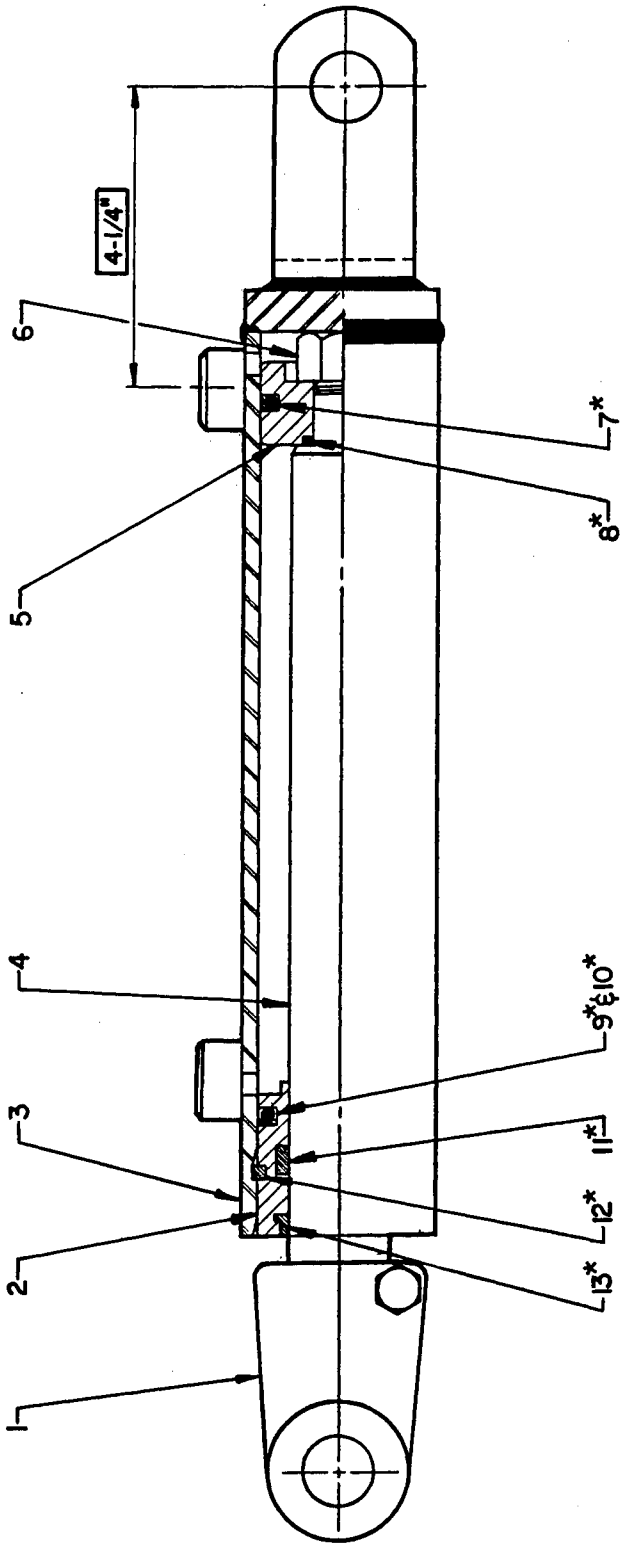
0484/1176

DESCRIPTION	PART NO.
STEER CYLINDER	04-001700

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	04-003403		CLEVIS ASSEMBLY	1
2	04-003407		HEAD GLAND	1
3			CASE	1
4	04-003406		ROD	1
5	04-003405		PISTON	1
6			PISTON NUT	1
7*			PISTON SEAL	1
8*			'O' RING	1
9*			'O' RING	1
10*			BACK-UP RING	1
11*			ROD SEAL	1
12*			SQUARE RETAINING RING	1
13*			WIPER	1
*	04-003402		SEAL KIT	1

DESCRIPTION	PART NO.
STEER CYLINDER	04-003400



NOTE:
* SEAL KIT P/N 04-003402

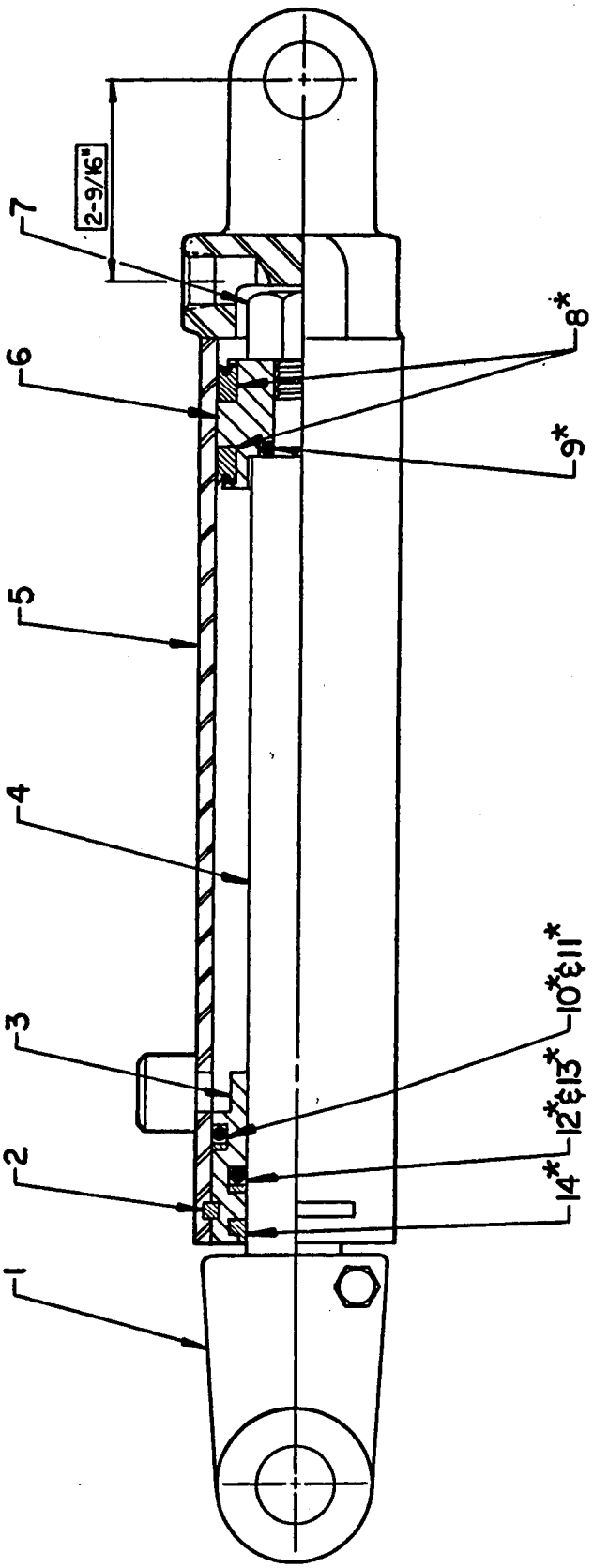
1184/0379

DESCRIPTION	PART NO.
STEER CYLINDER	04-003400

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	04-003403		CLEVIS ASSEMBLY	1
2*			SQUARE RETAINING RING	1
3			HEAD GLAND	1
4			ROD	1
5			CASE	1
6			PISTON	1
7			PISTON NUT	1
8*			PISTON SEAL	2
9*			'O' RING	1
10*			'O' RING	1
11*			BACK-UP RING	1
12*			'O' RING	1
13*			BACK-UP RING	1
14*			WIPER	1
*	04-022502		SEAL KIT	1

DESCRIPTION	PART NO.
STEER CYLINDER	04-022500



NOTE:
*SEAL KIT P/N 04-022502

1184/0677

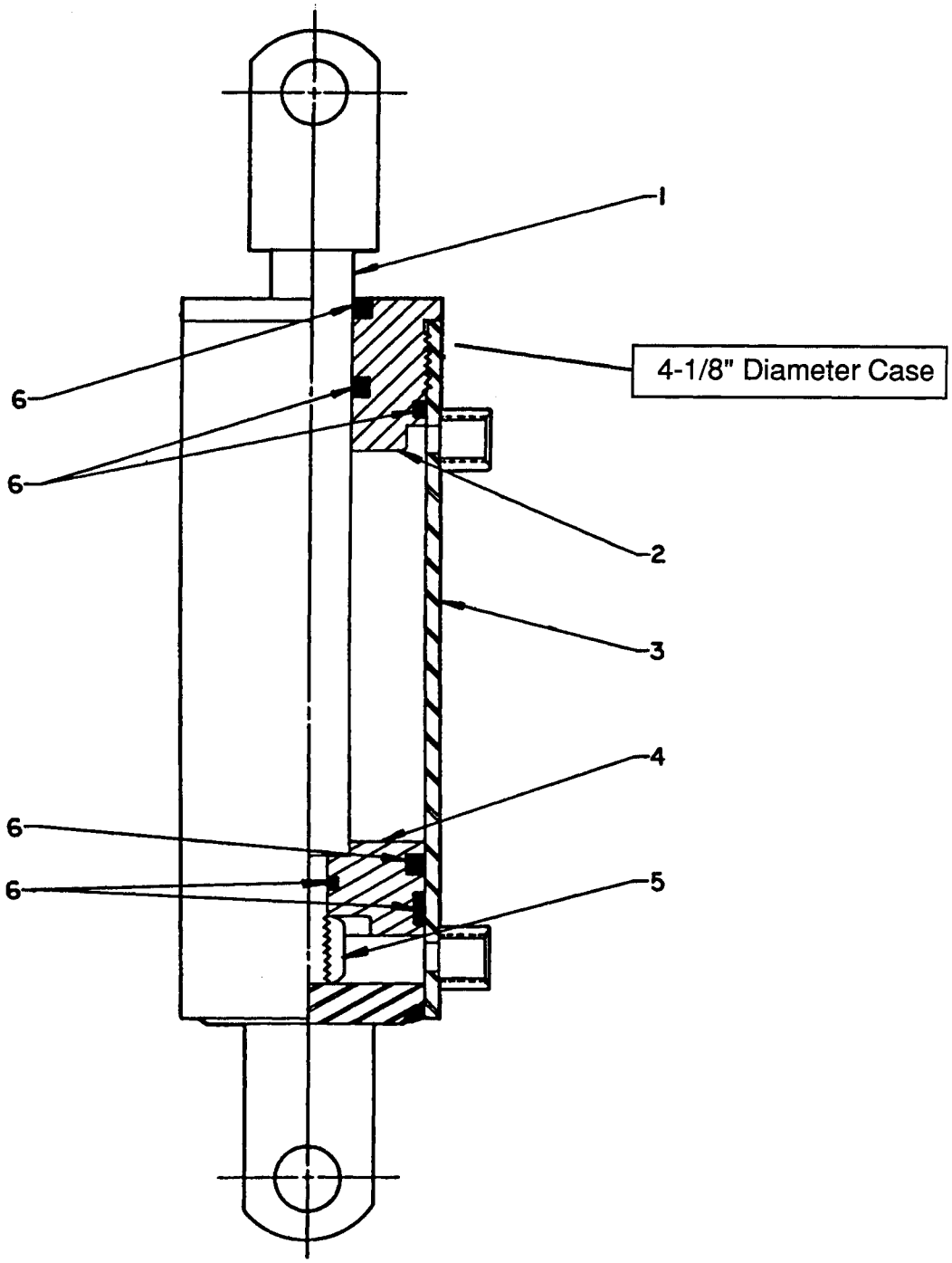
DESCRIPTION	PART NO..
STEER CYLINDER	04-022500

PARTS LIST

ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
1	04-008902		ROD W/CLEVIS	1
2	04-008903		GLAND, HEAD	1
3			CASE	1
4	04-008904		PISTON	1
5			LOCKNUT	1
6	04-031401		SEAL KIT	1

TITLE: STEER CYLINDER

PLATE NO. D01.09 | **SIMON AERIALS INC.** ORIGIN 06/08/90 | PART NO. 04-031400

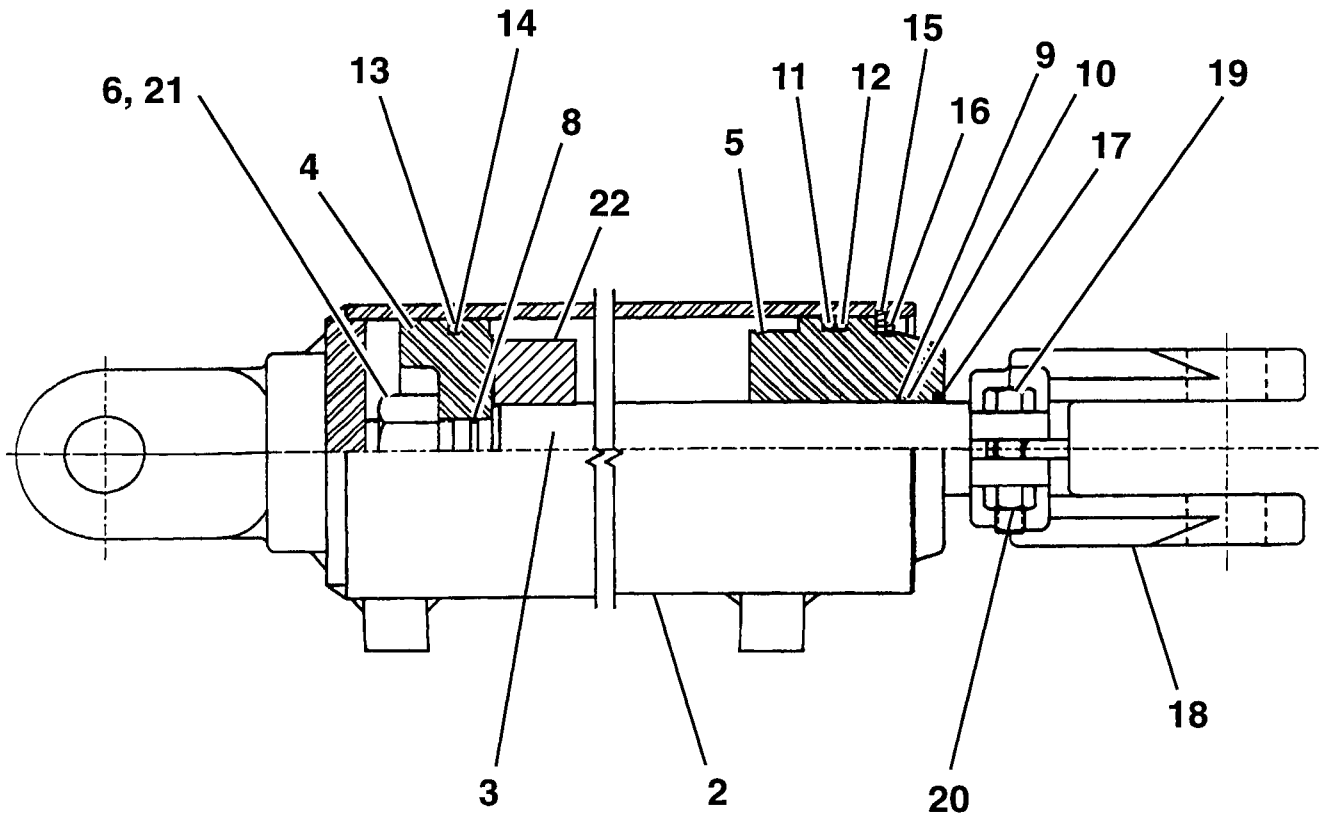


TITLE	STEER CYLINDER		
SIMON AERIALS INC. ORIGIN 06/08/90		PART NO. 04-031400	PLATE NO. D01.09

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			STEER CYLINDER ASSEMBLY [7-1/2" (190 mm) stroke, 3-1/2" (89 mm) bore, 1-1/4" (31.8 mm) rod, (2) 9/16"-18 UNF "O"-Ring ports].	
	04-033200		**Standard** cylinder, for all models except as listed below.	1
			Modified cylinder (with spacers installed), for . . .	
	2171750		model **MPH 60**, serial no. **AKA 00101** and prior.	1
	2171750		model **MP 80**, serial no. **AEA 01389** and prior.	1
	2171750		model **MP 80**, serial no. **AEA 01391, 1392, 1393.**	1
	2171750		**some four wheel drive** models **MPH 80, MPE 95** or **MPE 110** built in late 1990 (please consult factory, and provide serial number of your machine).	1
	Call Simon		**some two wheel drive** models **MPE 110** (consult factory, and provide serial number of your machine).	1
2			BODY, CYLINDER	1
3	04-033202		ROD, CYLINDER	1
4			PISTON, [3-1/2" (88.9 mm) dia.]	1
5			GUIDE, PISTON ROD	1
6			NUT, LOCK (7/8"-14) (replaced by item 21 some models)	1
7	04-033201		SEAL KIT	1
8			O-RING	1
9			SEAL	1
10			WASHER, BACKUP	1
11			O-RING	1
12			WASHER, BACKUP	1
13			O-RING	1
14			RING, PISTON	1
15			RING, RETAINING (interior)	1
16			RING, RETAINING (exterior)	1
17			WIPER, ROD	1
18	04-035305		ROD CLEVIS	1
19			CAP SCREW, HEX HEAD (3/8"-16 x 3/4")	1
20			NUT, HEX (3/8"-16)	1
			The following items are required on certain units (see above):	
21			SPACER, BASE (replaces lock nut, item 6)	
	2171720		[1-5/8" (41 mm) long] for cylinder assembly 2171750	1
	2178280		[1-9/16" (40 mm) long] for cylinder assembly "Call Simon"	1
22			SPACER, ROD	
	2171740		[.63" (16 mm) thick] for cylinder assembly 2171750	1
	2178300		[.63" (16 mm) thick] for cylinder assembly "Call Simon"	1

TITLE	STEER CYLINDER	
PLATE NO. D01.10	**SIMON AERIALS INC.** REV. 13 MAY, 1994	PART NO.



TITLE	STEER CYLINDER		
SIMON AERIALS INC. REV. 13 MAY, 1994	PART NO.	PLATE NO.	D01.10

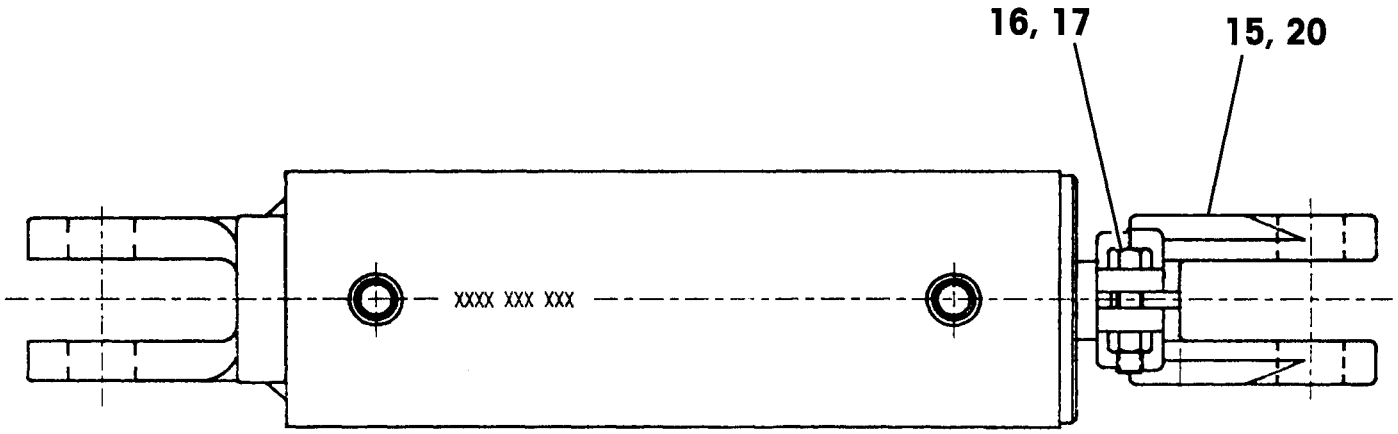
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			STEER CYLINDER ASSEMBLY (7-1/2" [190 mm] stroke, 3-1/2" [89 mm] bore, 1-1/4" [31.8 mm] rod, [2] 9/16"-18 UNF "O"-Ring ports).	
	04-035300		**Standard** cylinder, for all models except as listed below.	1
	232 8190		**Modified** cylinder (drilled for "L" shaped keeper pins), for models MPH 80, MP 95, MP 110 after Jan., 1994.	1
	217 4010		**Modified** cylinder (with spacers installed), for models MPH 60, MP 60Z, MP 70 or MP 80, and **all four wheel drive versions.**	1
2			BODY, CYLINDER	1
3	04-035302		ROD, CYLINDER	1
4	04-035303		PISTON	1
5			GUIDE, PISTON ROD	1
6	04-035304		NUT, LOCK (7/8"-14) (replaced by item 18 for some models)	1
7	04-035301		SEAL KIT	1
8			SEAL, "O"-RING (3/4" [19 mm] I.D.)	1
9			SEAL, "DURA-PAK" (3-1/2" [89 mm] O.D.)	1
10			SEAL, "U" CUP (1-1/4" [32 mm] I.D.)	1
11			RING, WIPER (1-1/4" [32 mm] I.D.)	1
12			SEAL, "O"-RING (3-1/2" [89 mm] O.D.)	1
13			RING, BACKUP	1
14			RING, RETAINING (Round)	1
15	04-035305		CLEVIS, ROD (without hole for keeper pin) (replaced by item 20 for some models)	1
16	07-003048		CAP SCREW, HEX HEAD (3/8"-16 x 1-3/4", Grade 5)	1
17	07-040016		NUT, HEX (3/8"-16, Grade 5)	1
			The following items are required on certain units (see above):	
18	217 1710		SPACER, BASE (replaces lock nut, item 6) (1-3/16" [30 mm] long) for cylinder assembly 217 4010	1
19	217 1730		SPACER, ROD (.19" [4.8 mm] thick) for cylinder assembly 217 4010	1
20	No part #		CLEVIS, ROD (04-035305 drilled for keeper pin, for cylinder 232 8190. Please specify modified clevis required.)	1

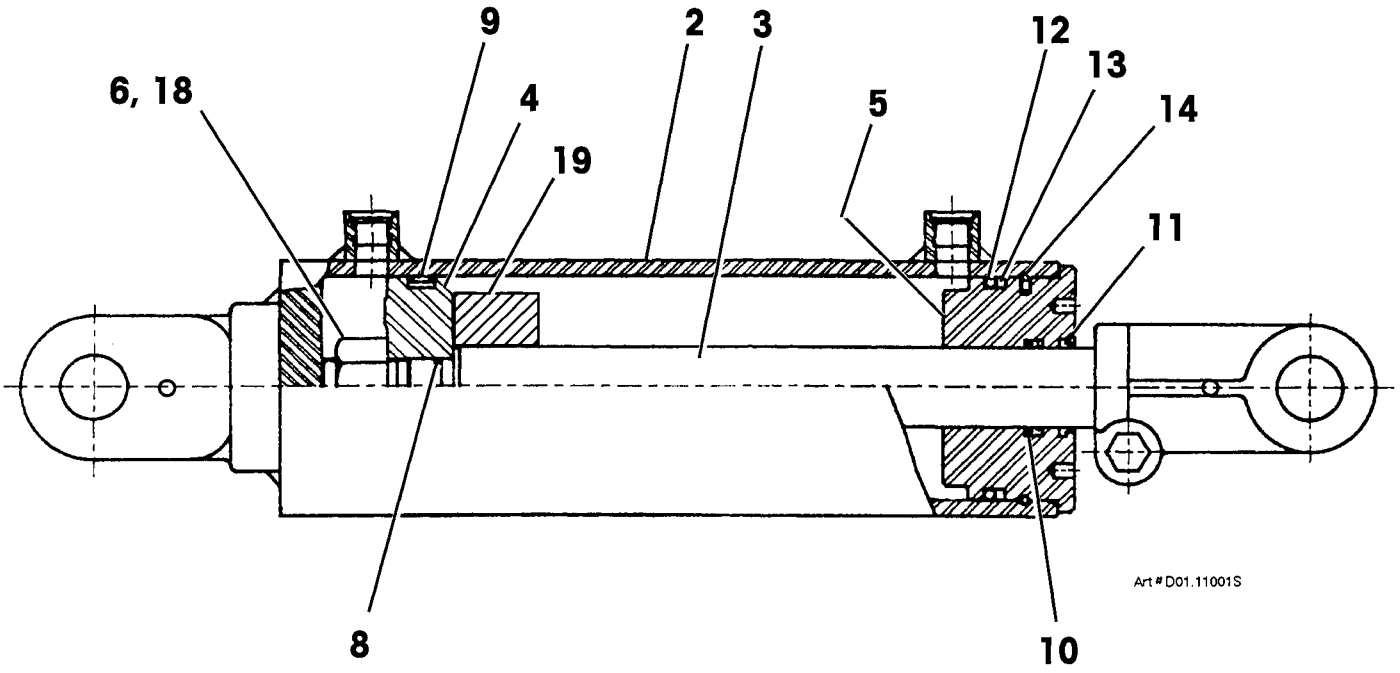
TITLE: STEER CYLINDER

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
D01	11	01	-	15 JUN, 1994	

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172



Art # D01.11002S



Art # D01.11001S

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172

TITLE

STEER CYLINDER

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
	-	15 JUN, 1994	D01.	11	01

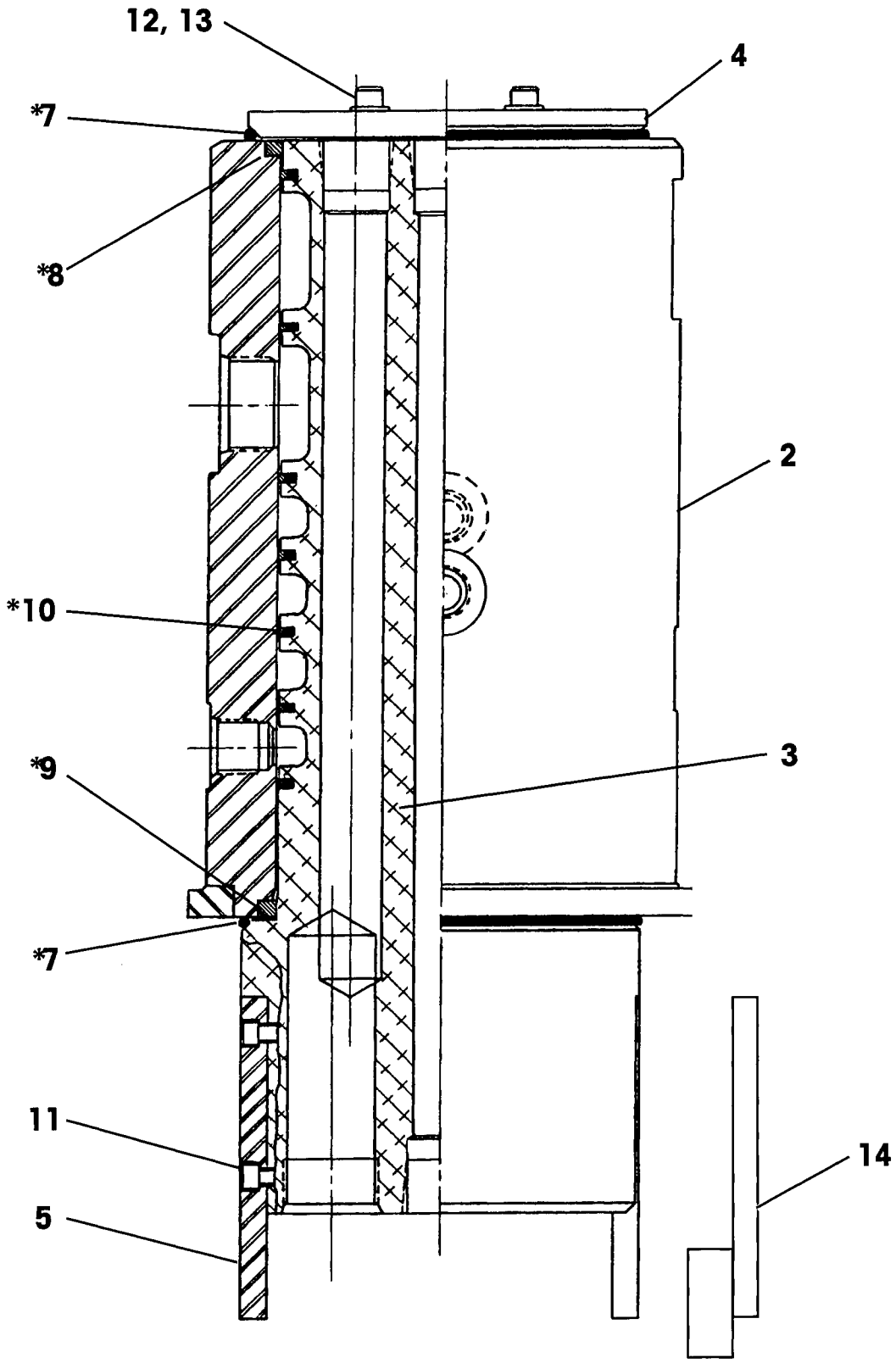
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			HYDRAULIC SWIVEL	1
	04-008700		For all versions except as listed below	
	235 1600		For Model RP 86	
2			HOUSING, HYDRAULIC SWIVEL	1
3			SPOOL	1
4			RETAINER PLATE	1
5			ARM, TORQUE	2
	04-008703		Standard 8" (203 mm) long arm for Swivel 04-008700	
	236 0930		4" (102 mm) long arm for Hydraulic Swivel 235 1600	
6	04-008702		SERVICE KIT, HYDRAULIC SWIVEL	1
			Note: Items in service kit identified by asterisk (*).	
7*			"O"-RING	2
8*			RING, WEAR	1
9*			RING, WEAR	1
10*	04-008701		SEAL KIT (consists of [7] "O"-Rings and [7] Slipper seals)	1
11	04-008704		CAP SCREW, SOCKET HEAD	4
12			CAP SCREW, SOCKET HEAD	4
13			WASHER, LOCK	4
			The following item **is not** included with Hydraulic Swivel 04-008700, but replaces Item #5 in some applications:	
14	210 1030		STOP, SWIVEL	2
			The following items **are not** included with Hydraulic Swivel 04-008700 or 235 1600:	
15	06-192200		HOSE FITTING (S2102-8-8)	
			(For center port on **some versions** of Model MP 80 and smaller)	1
16	06-071400		REDUCER, PIPE THREAD (3/4 x 1/2 PTR-S)	
			(For center port on Model MPH 80, MP 95, MP 110 and RP 120)	1

TITLE: HYDRAULIC SWIVEL

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
D02.	01	01	-	22 APR., 1996	

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172



Note: Items in service kit identified by asterisk (*)

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172

TITLE: HYDRAULIC SWIVEL

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
	-	22 APR., 1996	D02.	01	01

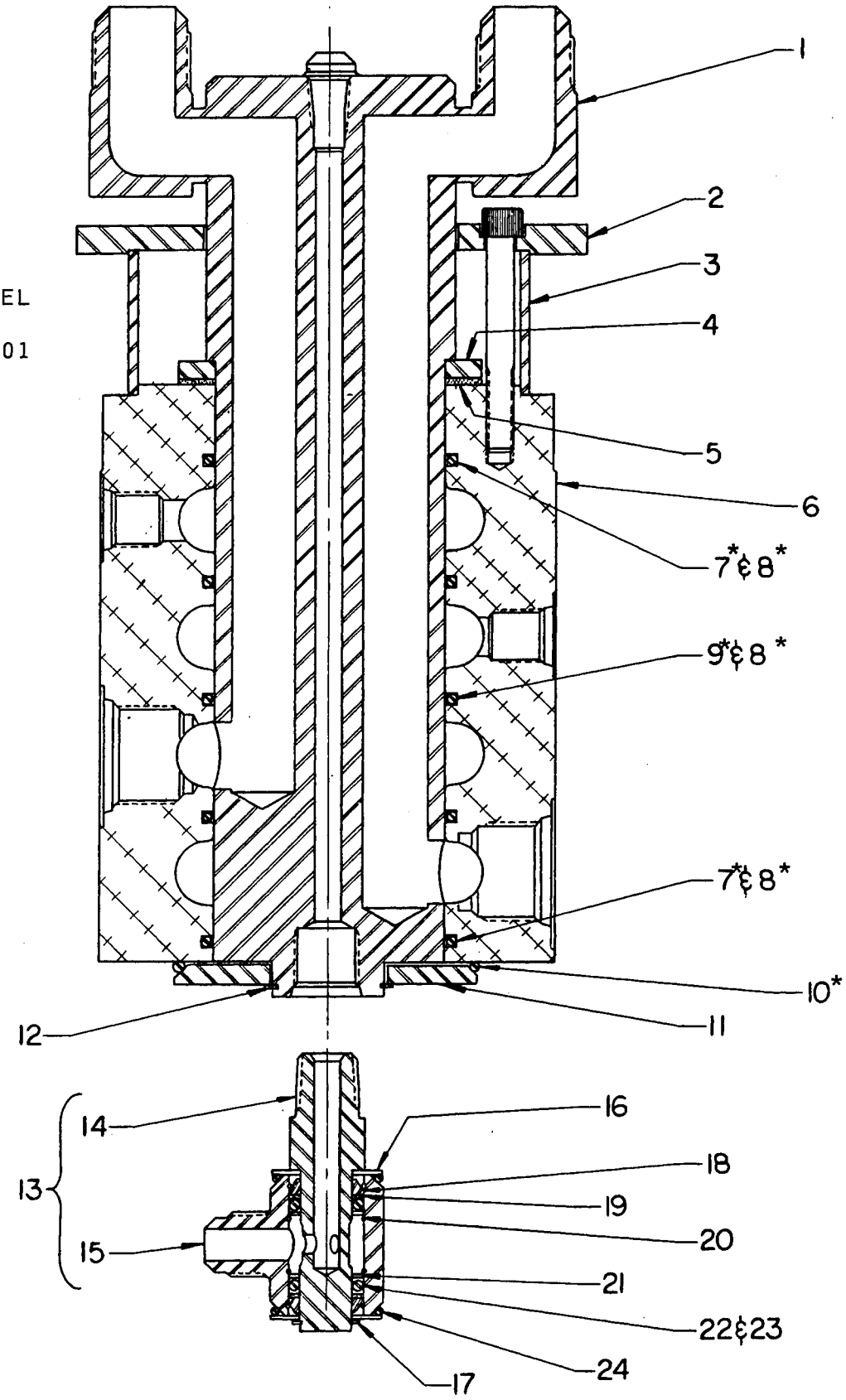
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	04-001601		SEAL KIT, HYDRAULIC SWIVEL (Upper) (includes all items indicated by asterisk[*])	
1	04-001607		POST, CENTER	1
2			CAP, END	1
3	04-001603		TUBE, SPACER	1
4	04-001606		SPACER	1
5	04-001605		WASHER, THRUST (Nylon)	1
6			BODY, SWIVEL	1
7		*	"O"-RING (for end positions)	2
8		*	SEAL, SLIPPER	5
9		*	"O"-RING (for center positions)	3
10		*	"O"-RING (for end cap)	1
11			CAP, END	1
12	04-001604		RING, RETAINING	1
13	04-001602		SWIVEL ASSEMBLY, AUXILIARY	1
14			POST, CENTER	1
15			BODY, SWIVEL	1
16			CAP, END	2
17			RING, RETAINING	1
18			SPACER	2
19			RING, BACKUP	2
20			RING, RETAINING	4
21			RING, BACKUP	2
22			"O"-RING	2
23			SEAL, SLIPPER	2
24			"O"-RING	1

TITLE	HYDRAULIC SWIVEL				
PLATE NO.	D02.02	**SIMON AERIALS INC.**	REV. 24 AUG., 1994 THIS SHEET ONLY	PART NO.	04-001600

NOTE:

* UPPER SWIVEL SEAL KIT P/N 04-001601



1183/0677

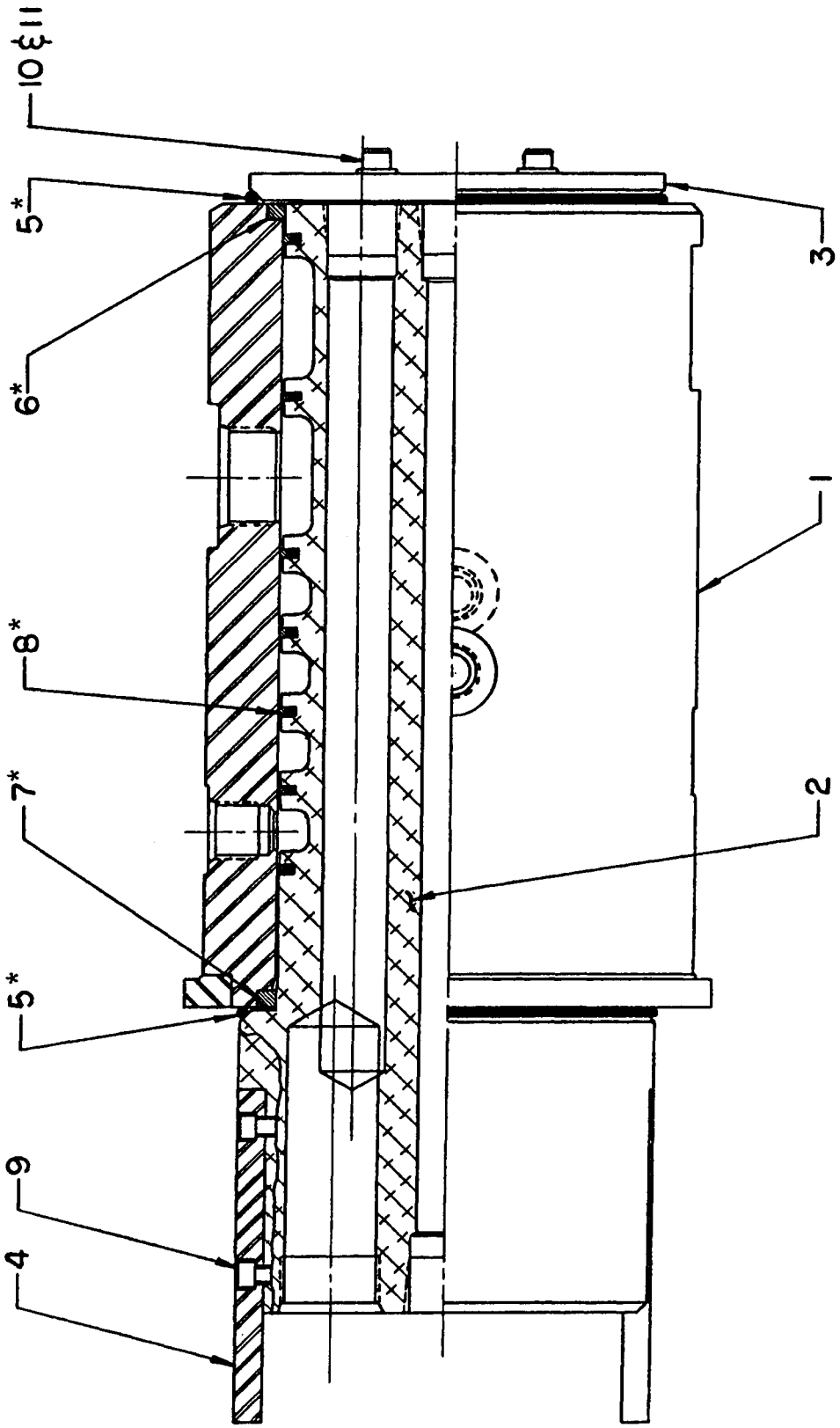
DESCRIPTION	PART NO.
HYDRAULIC SWIVEL	04-001600

PARTS LIST

ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
1			HOUSING	1
2			SPOOL (HARD COATED)	1
3			RETAINER PLATE	1
4	04-008703		ARM, TORQUE	2
5*			O-RING	2
6*			RING, WEAR	1
7*			RING, WEAR	1
8*	04-008701		SEAL KIT (7 O-RINGS, 7 SLIPPER SEALS)	1
9	04-008704		SCREW, CAP, SOCKET HEAD	4
10			SCREW, CAP, SOCKET HEAD	4
11			WASHER, LOCK	4
*	04-008702		SERVICE KIT	1
			NOTE: ITEMS IN SERVICE KIT IDENTIFIED BY ASTERISK (*).	

TITLE: HYDRAULIC SWIVEL

PLATE NO. D02.03 | **SIMON AERIALS INC.** ORIGIN 06/08/90 | PART NO. 01-201100



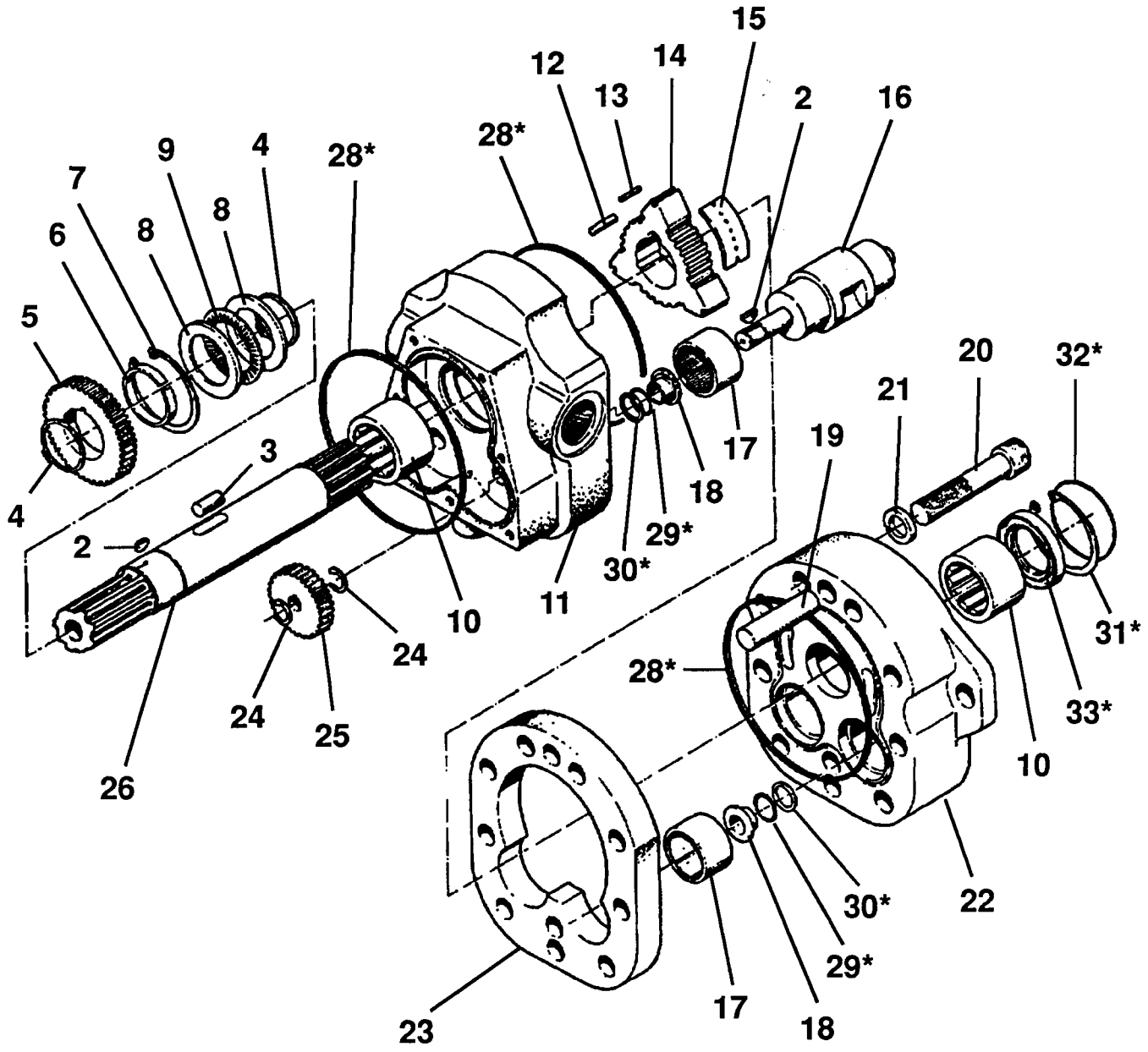
TITLE	HYDRAULIC SWIVEL		
SIMON AERIALS INC. REV. 06/08/90		PART NO. 01-201100	PLATE NO. D02.03

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-000446		MOTOR ASSEMBLY (See plate 2 of 2 for brake)	1
2	01-000430		KEY, WOODRUFF	3
3	01-000421		PIN, DRIVE	1
4	01-000443		RING, RETAINING	2
5	01-000439		GEAR, DRIVE	1
6	01-000431		WASHER, SPACER	1
7	01-000444		RING, RETAINING	1
8	01-000423		RACE, BEARING	2
9	01-000422		BEARING, THRUST	1
10	01-000436		BEARING, NEEDLE	2
11	01-000437		CAP, END (Rear)	1
12	01-000432		ROLLER, TIP SEAL [2" (50.8 mm) long]	3
13	01-000433		ROLLER, BODY SEAL [2" (50.8 mm) long]	18
14	01-000419		ROTOR [2" (50.8 mm) long]	1
15	01-000427		PLATE, SEAL [2" (50.8 mm) long]	3
16	01-000426		VALVE, ABUTMENT	2
17	01-000438		BEARING, NEEDLE	4
18	01-000425		BEARING, STEP	4
19	01-000424		PIN, DOWEL	2
20	07-008056		CAP SCREW, SOCKET HEAD (3/8"-16 x 3-3/4", Grade 8)	9
21	07-065016		WASHER, HELICAL LOCK (3/8")	9
22	01-000440		CAP, END (Front) (SAE "B")	1
23	01-000429		HOUSING, DISPLACEMENT	1
24	01-000442		RING, RETAINING	4
25	01-000420		GEAR, PINION	2
26	01-000417		SHAFT, MOTOR (Spline both ends, for use with brake)	1
27	01-000401		SEAL KIT, MOTOR	1
			Note: Items in motor seal kit marked by asterisk (*)	
28	01-000408		SEAL, OIL	3
29	01-000441		"O"-RING	4
30	01-000428		RING, BACK UP	4
31	01-000445		RING, RETAINING	1
32	01-000406		"O"-RING	1
33	01-000407		SEAL, SHAFT	1

TITLE WHEEL MOTOR/ BRAKE (MOTOR, 4 IN.^{3}, PLATE 1 OF 2)

PLATE NO. D03.01 | **SIMON AERIALS INC.** REV. 7/19/91 | PART NO. 01-000400

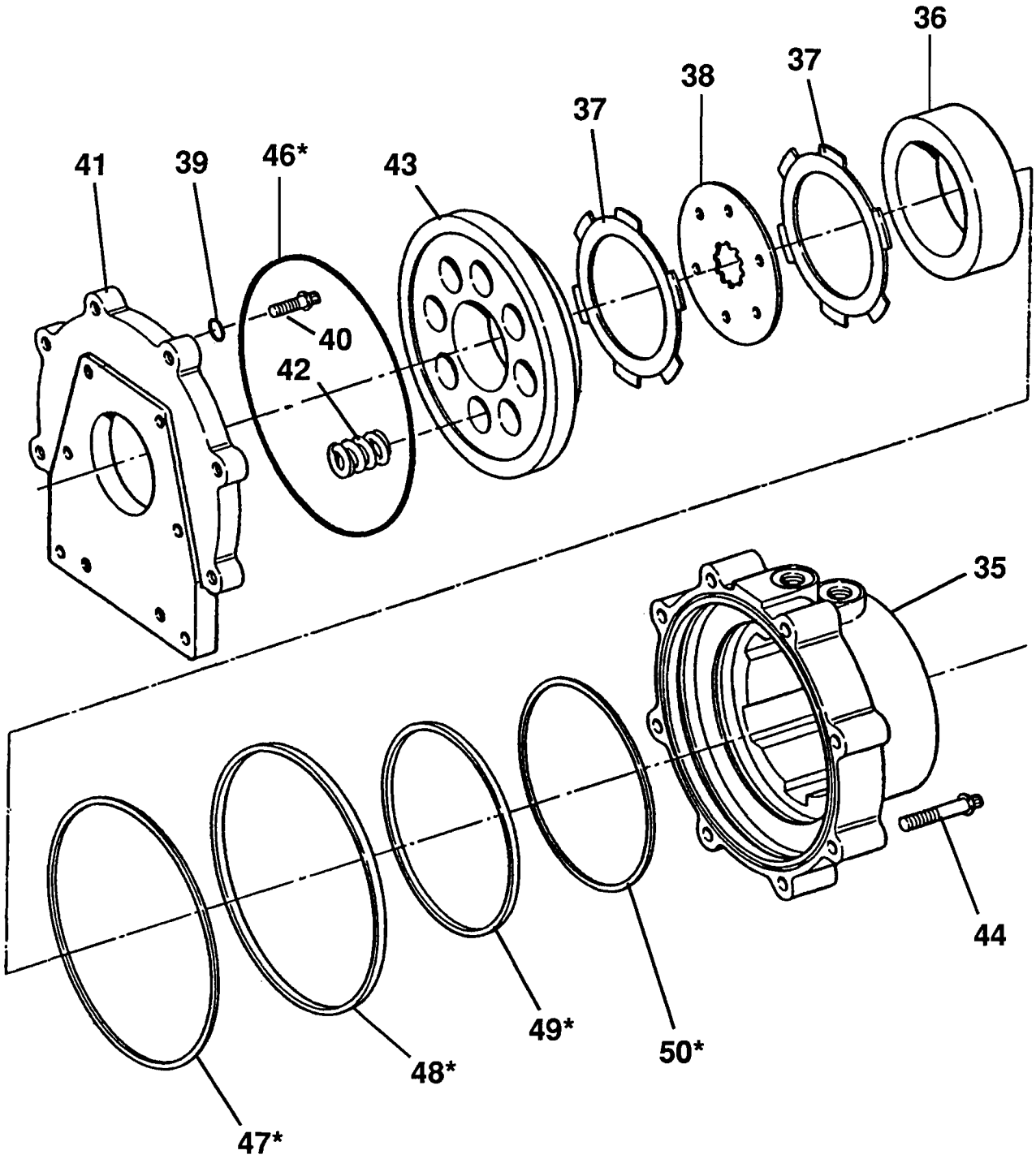


TITLE	WHEEL MOTOR/ BRAKE (MOTOR, 4 IN.^{3}, PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 7/19/91	PART NO. 01-000400	PLATE NO. D03.01	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
34	01-000435		BRAKE ASSEMBLY (See plate 1 of 2 for motor)	1
35	01-000434		HOUSING	1
36	01-000409		SPACER	1
37	01-000410		DISC, FRICTION	5
38	01-000411		PLATE, DRIVE	4
39	01-000405		WASHER, BRASS	7
40	07-008003		CAP SCREW, SOCKET HEAD (1/4"-20 x 3/4", Grade 8)	7
41	01-000403		PLATE, ADAPTER	1
42	01-000412		SPRING, DIE	8
43	01-000413		PLATE, PRESSURE	1
44	07-008027		CAP SCREW, SOCKET HEAD (5/16"-18 x 5/8")	8
45	01-000402		SEAL KIT, BRAKE	1
			Note: Items included in seal kit marked by asterisk (*)	
46	01-000404		"O"-RING	1
47	01-000414		RING, BACK UP	1
48	01-000415		RING, QUAD	1
49	01-000418		RING, QUAD	1
50	01-000416		RING, BACK UP	1

TITLE	WHEEL MOTOR/ BRAKE (BRAKE, PLATE 2 OF 2)				
PLATE NO.	D03.01	**SIMON AERIALS INC.**	REV. 7/19/91	PART NO.	01-000400



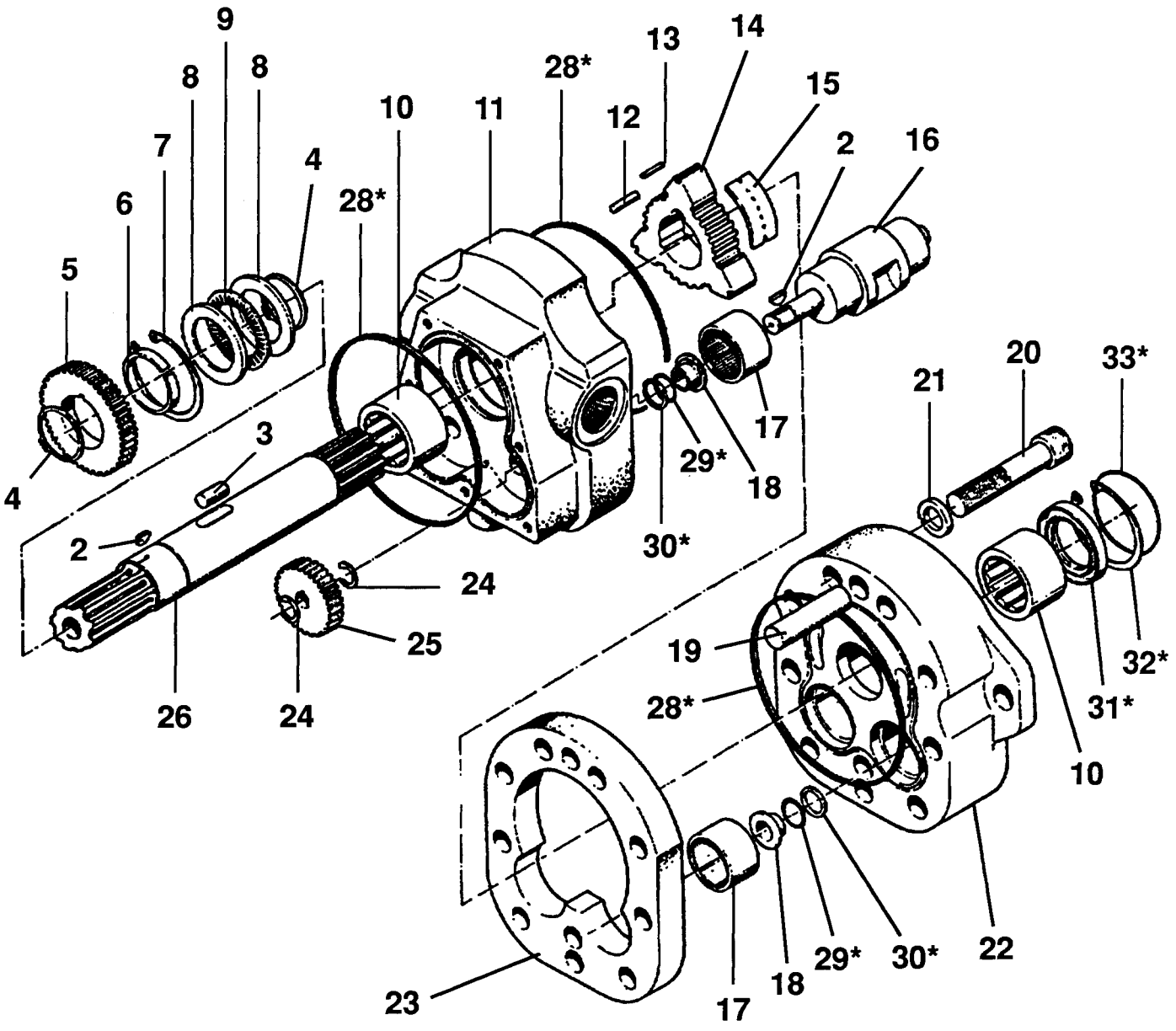
TITLE	WHEEL MOTOR/ BRAKE (BRAKE, PLATE 2 OF 2)				
SIMON AERIALS INC.	REV. 7/19/91	PART NO.	01-000400	PLATE NO.	D03.01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-000446		MOTOR ASSEMBLY (See plate 2 of 2 for brake)	1
2	01-000430		KEY, WOODRUFF	3
3	01-000421		PIN, DRIVE	1
4	01-000443		RING, RETAINING	2
5	01-000439		GEAR, DRIVE	1
6	01-000431		WASHER, SPACER	1
7	01-000444		RING, RETAINING	1
8	01-000423		RACE, BEARING	2
9	01-000422		BEARING, THRUST	1
10	01-000436		BEARING, NEEDLE	2
11	01-000437		CAP, END (Rear)	1
12	01-000432		ROLLER, TIP SEAL [2" (50.8 mm) long]	3
13	01-000433		ROLLER, BODY SEAL [2" (50.8 mm) long]	18
14	01-000419		ROTOR [2" (50.8 mm) long]	1
15	01-000427		PLATE, SEAL [2" (50.8 mm) long]	3
16	01-000426		VALVE, ABUTMENT	2
17	01-000438		BEARING, NEEDLE	4
18	01-000425		BEARING, STEP	4
19	01-000424		PIN, DOWEL	2
20	07-008056		CAP SCREW, SOCKET HEAD (3/8"-16 x 3-3/4", Grade 8)	9
21	07-065016		WASHER, HELICAL LOCK (3/8")	9
22	01-000440		CAP, END (Front) (SAE "B")	1
23	01-000429		HOUSING, DISPLACEMENT	1
24	01-000442		RING, RETAINING	4
25	01-000420		GEAR, PINION	2
26	01-000417		SHAFT, MOTOR (Spline both ends, for use with brake)	1
27	01-000401		SEAL KIT, MOTOR	1
			Note: Items included in seal kit marked by asterisk (*)	
28	01-000408		SEAL, OIL	3
29	01-000441		"O"-RING	4
30	01-000428		RING, BACK UP	4
31	01-000407		SEAL, SHAFT	1
32	01-000445		RING, RETAINING	1
33	01-000406		"O"-RING	1

TITLE WHEEL MOTOR/ BRAKE (MOTOR, 4 IN.^{3}, PLATE 1 OF 2)

PLATE NO. D03.02 | **SIMON AERIALS INC.** REV. 7/19/91 | PART NO. 01-004800



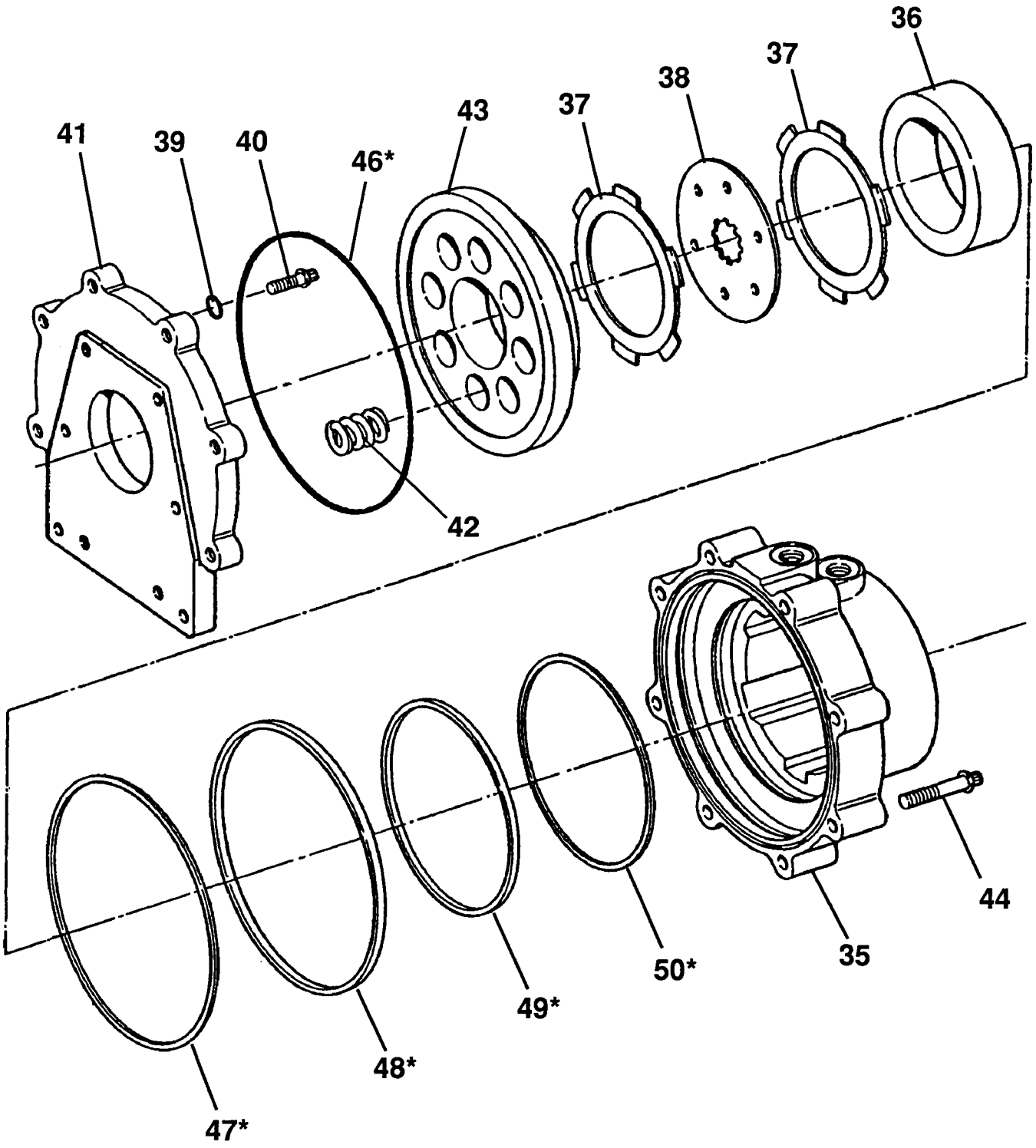
TITLE	WHEEL MOTOR/ BRAKE (MOTOR, 4 IN.^{3}, PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 7/19/91	PART NO. 01-004800	PLATE NO. D03.02	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
34	01-004802		BRAKE ASSEMBLY (See plate 1 of 2 for motor)	1
35	01-000434		HOUSING	1
36	01-004801		SPACER	1
37	01-000410		DISC, FRICTION	7
38	01-000411		PLATE, DRIVE	6
39	01-000405		WASHER, BRASS	7
40	07-008003		CAP SCREW, SOCKET HEAD (1/4"-20 x 3/4", Grade 8)	7
41	01-000403		PLATE, ADAPTER	1
42	01-000412		SPRING, DIE	8
43	01-000413		PLATE, PRESSURE	1
44	07-008027		CAP SCREW, SOCKET HEAD (5/16"-18 x 5/8")	8
45	01-000402		SEAL KIT, BRAKE	1
			Note: Items included in seal kit marked by asterisk (*)	
46	01-000404		"O"-RING	1
47	01-000414		RING, BACK UP	1
48	01-000415		RING, QUAD	1
49	01-000418		RING, QUAD	1
50	01-000416		RING, BACK UP	1

TITLE: WHEEL MOTOR/ BRAKE (BRAKE, PLATE 2 OF 2)

PLATE NO. D03.02 | **SIMON AERIALS INC.** REV. 7/19/91 | PART NO. 01-004800



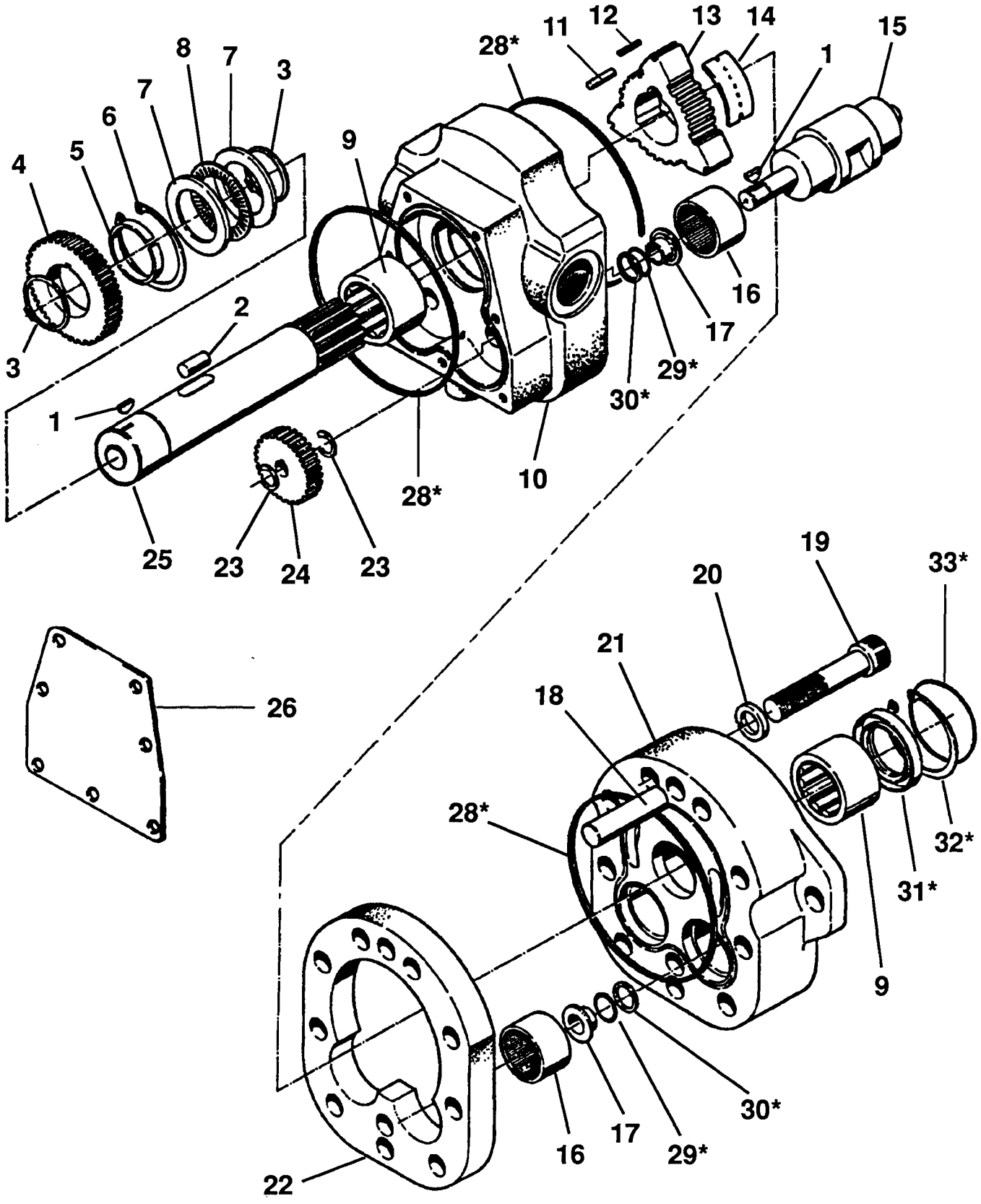
TITLE	WHEEL MOTOR/ BRAKE (BRAKE, PLATE 2 OF 2)		
SIMON AERIALS INC. REV. 7/19/91	PART NO. 01-004800	PLATE NO. D03.02	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-000430		KEY, WOODRUFF	3
2	01-000421		PIN, DRIVE	1
3	01-000443		RING, RETAINING	2
4	01-000439		GEAR, DRIVE	1
5	01-000431		WASHER, SPACER	1
6	01-000444		RING, RETAINING	1
7	01-000423		RACE, BEARING	2
8	01-000422		BEARING, THRUST	1
9	01-000436		BEARING, NEEDLE	2
10	01-000437		CAP, END (Rear)	1
11	01-000432		ROLLER, TIP SEAL [2" (50.8 mm) long]	3
12	01-000433		ROLLER, BODY SEAL [2" (50.8 mm) long]	18
13	01-000419		ROTOR [2" (50.8 mm) long]	1
14	01-000427		PLATE, SEAL [2" (50.8 mm) long]	3
15	01-000426		VALVE, ABUTMENT	2
16	01-000438		BEARING, NEEDLE	4
17	01-000425		BEARING, STEP	4
18	01-000424		PIN, DOWEL	2
19	07-008056		CAP SCREW, SOCKET HEAD (3/8"-16 x 3-3/4", Grade 8)	9
20	07-065016		WASHER, HELICAL LOCK (3/8")	9
21	01-000440		CAP, END (Front) (SAE "B")	1
22	01-000429		HOUSING, DISPLACEMENT	1
23	01-000442		RING, RETAINING	4
24	01-000420		GEAR, PINION	2
25			SHAFT, MOTOR (Spline one end, for use without brake)	1
26			PLATE, GEAR COVER	1
27	01-000401		SEAL KIT, MOTOR	1
			Note: Items in seal kit identified by asterisk (*).	
28*	01-000408		SEAL, OIL	3
29*	01-000441		"O"-RING	4
30*	01-000428		RING, BACK UP	4
31*	01-000407		SEAL, SHAFT	1
32*	01-000445		RING, RETAINING	1
33*	01-000406		"O"-RING	1

TITLE WHEEL MOTOR (4 IN.^{3}, USED W/O BRAKE ON 4WD STEER AXLE)

PLATE NO. D03.07 | **SIMON AERIALS INC.** REV. 7/19/91 | PART NO. 01-003400

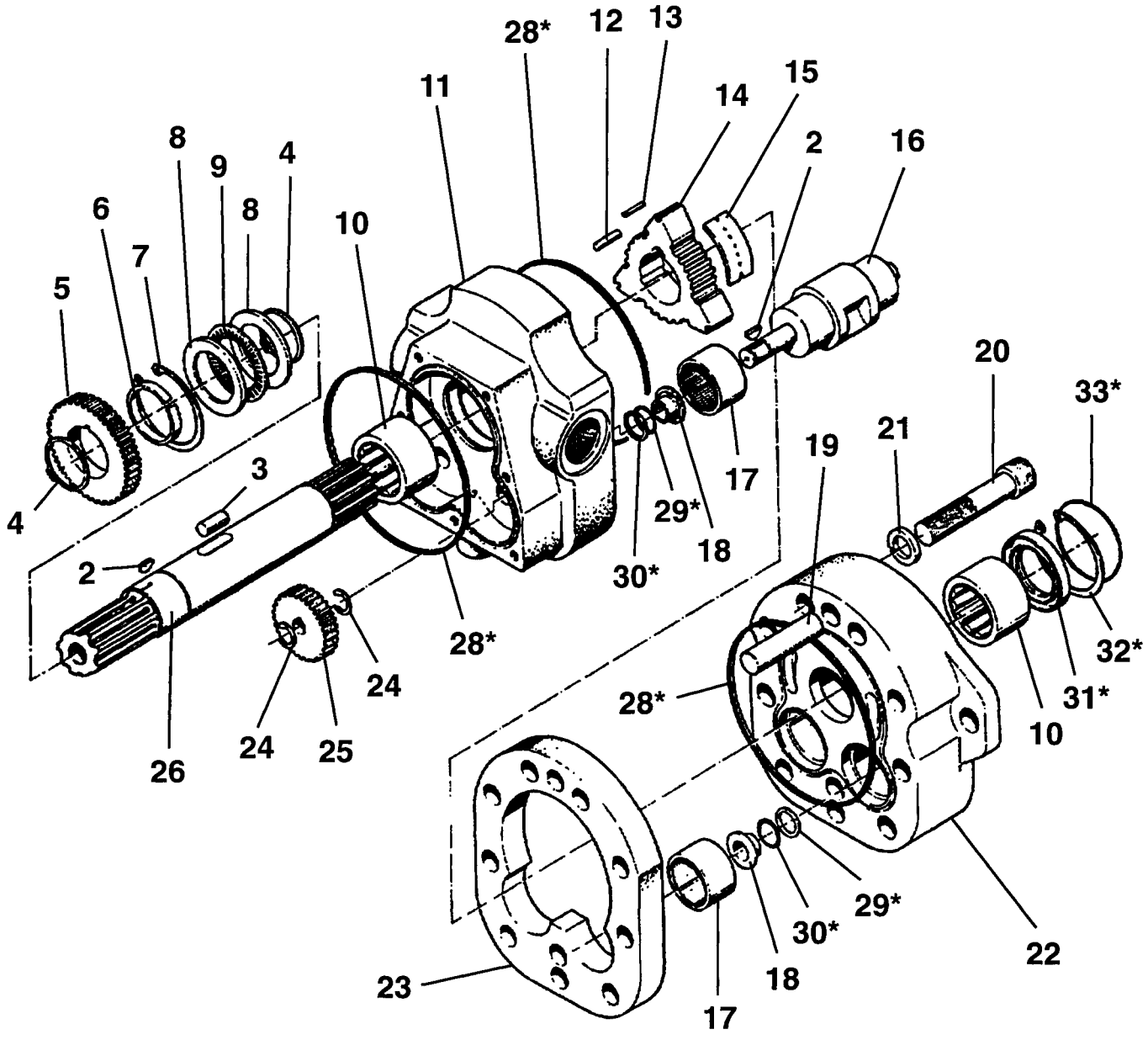


TITLE	WHEEL MOTOR (4 IN.³, USED W/O BRAKE ON 4WD STEER AXLE)		
SIMON AERIALS INC.	REV. 7/19/91	PART NO. 01-003400	PLATE NO. D03.07

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			MOTOR ASSEMBLY (See plate 2 of 2 for brake)	1
2	01-000430		KEY, WOODRUFF	3
3			PIN, DRIVE	1
4	01-000443		RING, RETAINING	2
5	01-000439		GEAR, DRIVE	1
6	01-000431		WASHER, SPACER	1
7	01-000444		RING, RETAINING	1
8	01-000423		RACE, BEARING	2
9	01-000422		BEARING, THRUST	1
10	01-000436		BEARING, NEEDLE	2
11			CAP, END (Rear)	1
12			ROLLER, TIP SEAL [3" (76.2 mm) long]	3
13			ROLLER, BODY SEAL [3" (76.2 mm) long]	18
14			ROTOR [3" (76.2 mm) wide]	1
15			PLATE, SEAL [3" (76.2 mm) wide]	3
16			VALVE, ABUTMENT	2
17	01-000438		BEARING, NEEDLE	4
18	01-000425		BEARING, STEP	4
19			PIN, DOWEL	2
20			CAP SCREW, SOCKET HEAD	9
21			WASHER, HELICAL LOCK	9
22	01-000440		CAP, END (Front) (SAE "B")	1
23			HOUSING, DISPLACEMENT	1
24	01-000442		RING, RETAINING	4
25	01-000420		GEAR, PINION	2
26			SHAFT, MOTOR (Spline both ends, for use with brake)	1
27	01-000401		SEAL KIT, MOTOR	1
			Note: Items included in seal kit marked by asterisk (*)	
28			SEAL, OIL	3
29			"O"-RING	4
30	01-000428		RING, BACK UP	4
31			SEAL, SHAFT	1
32	01-000445		RING, RETAINING	1
33			"O"-RING	1

TITLE	WHEEL MOTOR/ BRAKE (MOTOR, 5 IN.^{3}, PLATE 1 OF 2)			
PLATE NO.	D03.09	**SIMON AERIALS INC.**	REV. 14 JUN., 1994	PART NO. 01-064200

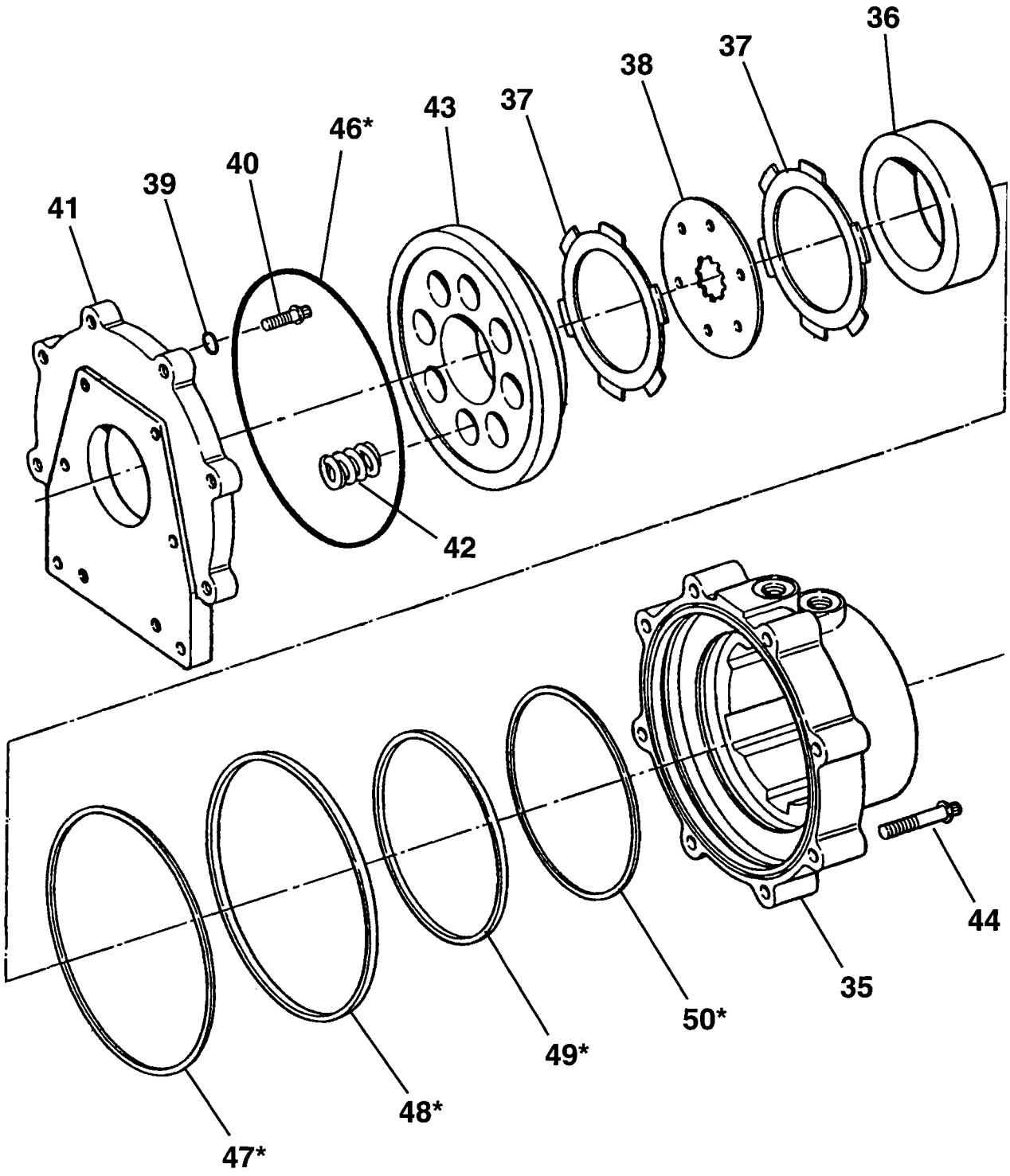


TITLE	WHEEL MOTOR/ BRAKE (MOTOR, 5 IN.^{3}, PLATE 1 OF 2)		
SIMON AERIALS INC.	REV. 14 JUN., 1994	PART NO. 01-064200	PLATE NO. D03.09

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
34	01-004802		BRAKE ASSEMBLY (See plate 1 of 2 for motor)	1
35	01-000434		HOUSING	1
36	01-004801		SPACER	1
37	01-000410		DISC, FRICTION	7
38	01-000411		PLATE, DRIVER	6
39	01-000405		WASHER, BRASS	7
40	07-008003		CAP SCREW, SOCKET HEAD (1/4"-20 x 3/4", Grade 8)	7
41	01-000403		PLATE, ADAPTER	1
42	01-000412		SPRING, DIE	8
43	01-000413		PLATE, PRESSURE	1
44	07-008027		CAP SCREW, SOCKET HEAD (5/16"-18 x 5/8")	8
45	01-000402		SEAL KIT, BRAKE	1
46*	01-000404		"O"-RING	1
47*	01-000414		RING, BACK UP	1
48*	01-000415		RING, QUAD	1
49*	01-000418		RING, QUAD	1
50*	01-000416		RING, BACK UP	1

TITLE	WHEEL MOTOR/ BRAKE (BRAKE, PLATE 2 OF 2)				
PLATE NO.	D03.09	**SIMON AERIALS INC.**	REV. 14 JUN., 1994	PART NO.	01-064200



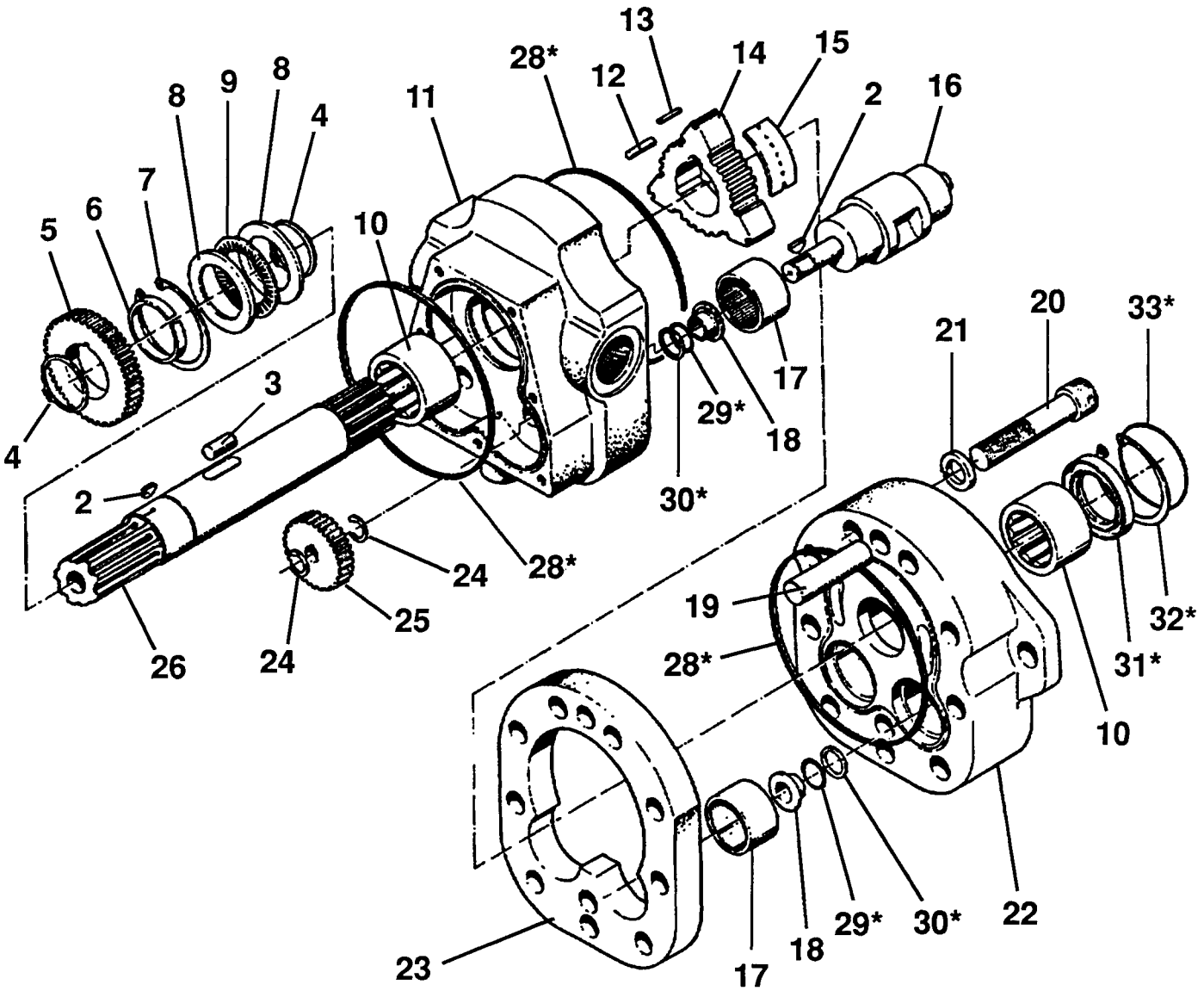
TITLE	WHEEL MOTOR/ BRAKE (BRAKE, PLATE 2 OF 2)		
SIMON AERIALS INC. REV. 14 JUN., 1994	PART NO. 01-064200	PLATE NO. D03.09	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Note: These assemblies equipped with components which enable use of water-glycol hydraulic fluid.	
1			MOTOR ASSEMBLY (4 in^3)(See plate 2 of 2 for brake)	1
	01-200500		MOTOR ASSEMBLY (5 in^3)(See plate 2 of 2 for brake)	1
2	01-000430		KEY, WOODRUFF	3
3			PIN, DRIVE	1
4	01-000443		RING, RETAINING	2
5	01-000439		GEAR, DRIVE	1
6	01-000431		WASHER, SPACER	1
7	01-000444		RING, RETAINING	1
8	01-000423		RACE, BEARING	2
9	01-000422		BEARING, THRUST	1
10	01-000436		BEARING, NEEDLE	2
11			CAP, END (Rear) (hardcoat, anodized)	1
12			ROLLER, TIP SEAL [2" (50.8 mm) long] (for 4 in^3 motor)	3
			ROLLER, TIP SEAL [3" (76.2 mm) long] (for 5 in^3 motor)	3
13			ROLLER, BODY SEAL [2" (50.8 mm) long] (4 in^3 motor)	18
			ROLLER, BODY SEAL [3" (76.2 mm) long] (5 in^3 motor)	18
14			ROTOR [2" (50.8 mm) long] (for 4 in^3 motor)	1
			ROTOR [3" (76.2 mm) long] (for 5 in^3 motor)	1
15			PLATE, SEAL [2" (50.8 mm) long] (for 4 in^3 motor)	3
			PLATE, SEAL [3" (76.2 mm) long] (for 5 in^3 motor)	3
16			VALVE, ABUTMENT	2
17	01-000438		BEARING, NEEDLE	4
18	01-000425		BEARING, STEP	4
19			PIN, DOWEL	2
20			CAP SCREW, SOCKET HEAD	9
21			WASHER, HELICAL LOCK	9
22			CAP, END (Front) (SAE "B") (hardcoat, anodized)	1
23			HOUSING, DISPLACEMENT	1
24	01-000442		RING, RETAINING	4
25	01-000420		GEAR, PINION	2
26			SHAFT, MOTOR (Spline both ends, for use with brake)	1
27	01-000401		SEAL KIT, MOTOR	1
			Note: Items included in seal kit marked by asterisk (*)	
28	01-000408		SEAL, OIL	3
29	01-000441		"O"-RING	4
30	01-000428		RING, BACK UP	4
31	01-000407		SEAL, SHAFT	1
32	01-000445		RING, RETAINING	1
33	01-000406		"O"-RING	1

TITLE WHEEL MOTOR/ BRAKE, SPECIAL (MOTOR, PLATE 1 OF 2)

PLATE NO. D03.11 | **SIMON AERIALS INC.** REV. 7/19/91 | PART NO.



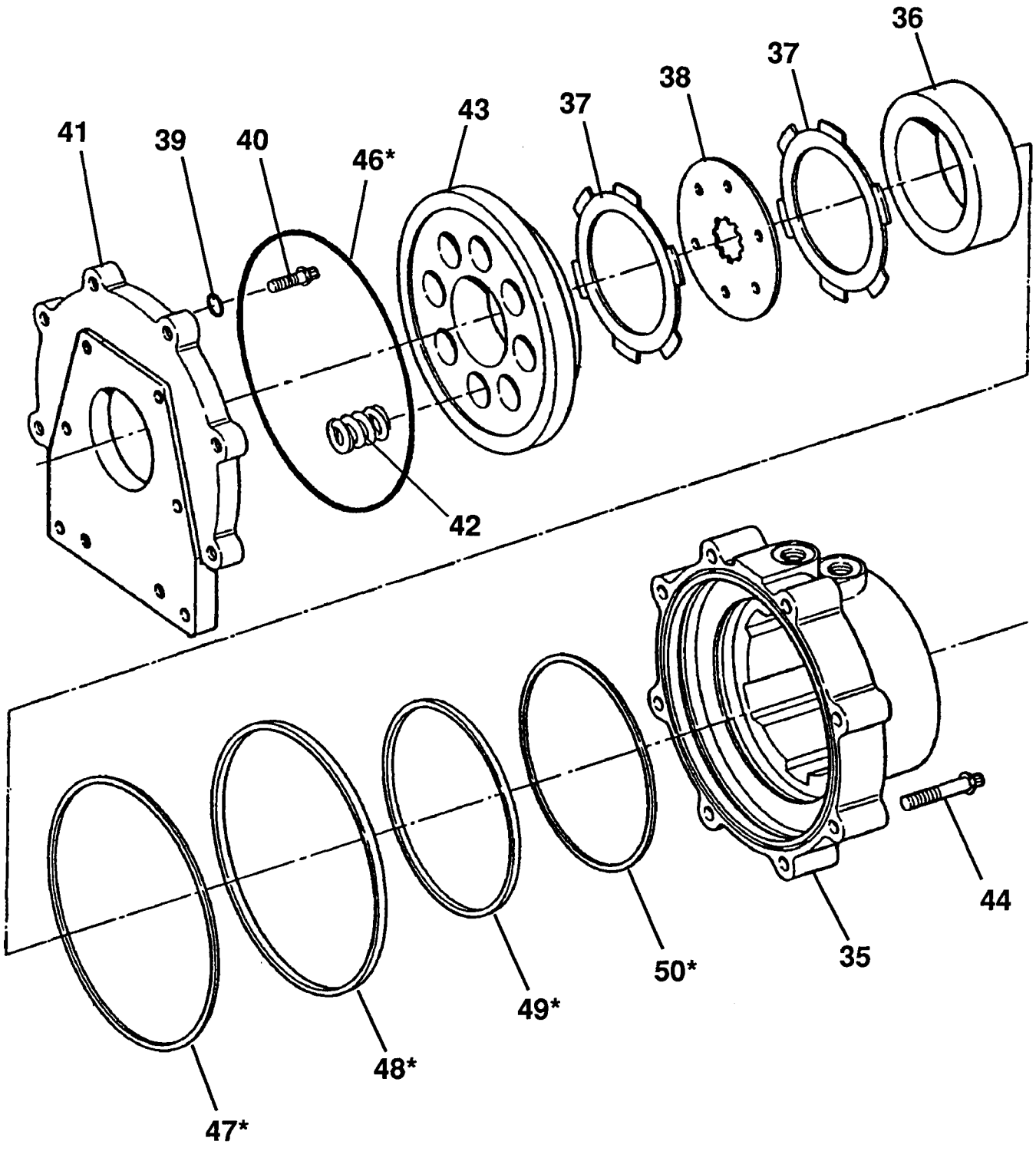
TITLE	WHEEL MOTOR/ BRAKE, SPECIAL (MOTOR, PLATE 1 OF 2)		
SIMON AERIALS INC.	REV. 7/19/91	PART NO.	PLATE NO. D03.11

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Note: This assembly equipped with components which enable use of water-glycol hydraulic fluid.	
34	01-004802		BRAKE ASSEMBLY (See plate 1 of 2 for motor)	1
35	01-000434		HOUSING	1
36	01-004801		SPACER	1
37	01-000410		DISC, FRICTION	7
38	01-000411		PLATE, DRIVE	6
39	01-000405		WASHER, BRASS	7
40	07-008003		CAP SCREW, SOCKET HEAD (1/4"-20 x 3/4", Grade 8)	7
41	01-000403		PLATE, ADAPTER	1
42	01-000412		SPRING, DIE	8
43	01-000413		PLATE, PRESSURE	1
44	07-008027		CAP SCREW, SOCKET HEAD (5/16"-18 x 5/8")	8
45	01-000402		SEAL KIT, BRAKE	1
			Note: Items included in seal kit marked by asterisk (*)	
46	01-000404		"O"-RING	1
47	01-000414		RING, BACK UP	1
48	01-000415		RING, QUAD	1
49	01-000418		RING, QUAD	1
50	01-000416		RING, BACK UP	1

TITLE WHEEL MOTOR/ BRAKE, SPECIAL (BRAKE, PLATE 2 OF 2)

PLATE NO. D03.11 | **SIMON AERIALS INC.** REV. 7/19/91 | PART NO.

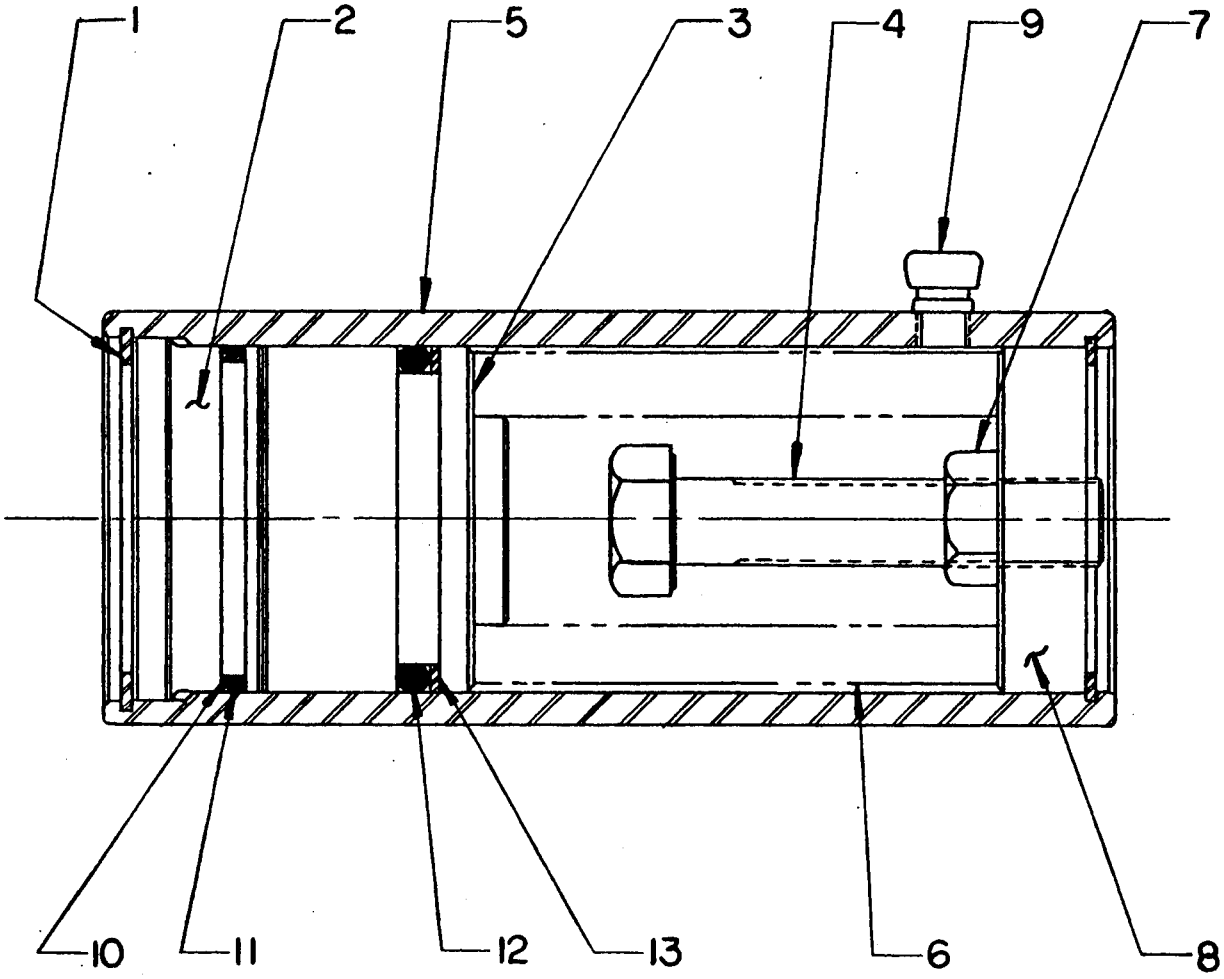


TITLE	WHEEL MOTOR/ BRAKE, SPECIAL (BRAKE, PLATE 2 OF 2)		
SIMON AERIALS INC. REV. 7/19/91		PART NO.	PLATE NO. D03.11

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-001502		RETAINING RING	2
2			PORT CAP	1
3			PISTON	1
4			SCREW	1
5			CYLINDER	1
6			SPRING	1
7			NUT	1
8			CYLINDER CAP	1
9			VENT	1
10			BACK-UP RING	1
11			'O' RING	1
12			'O' RING	1
13			BACK-UP RING	

DESCRIPTION	PART NO.
ACCUMULATOR	01-001500



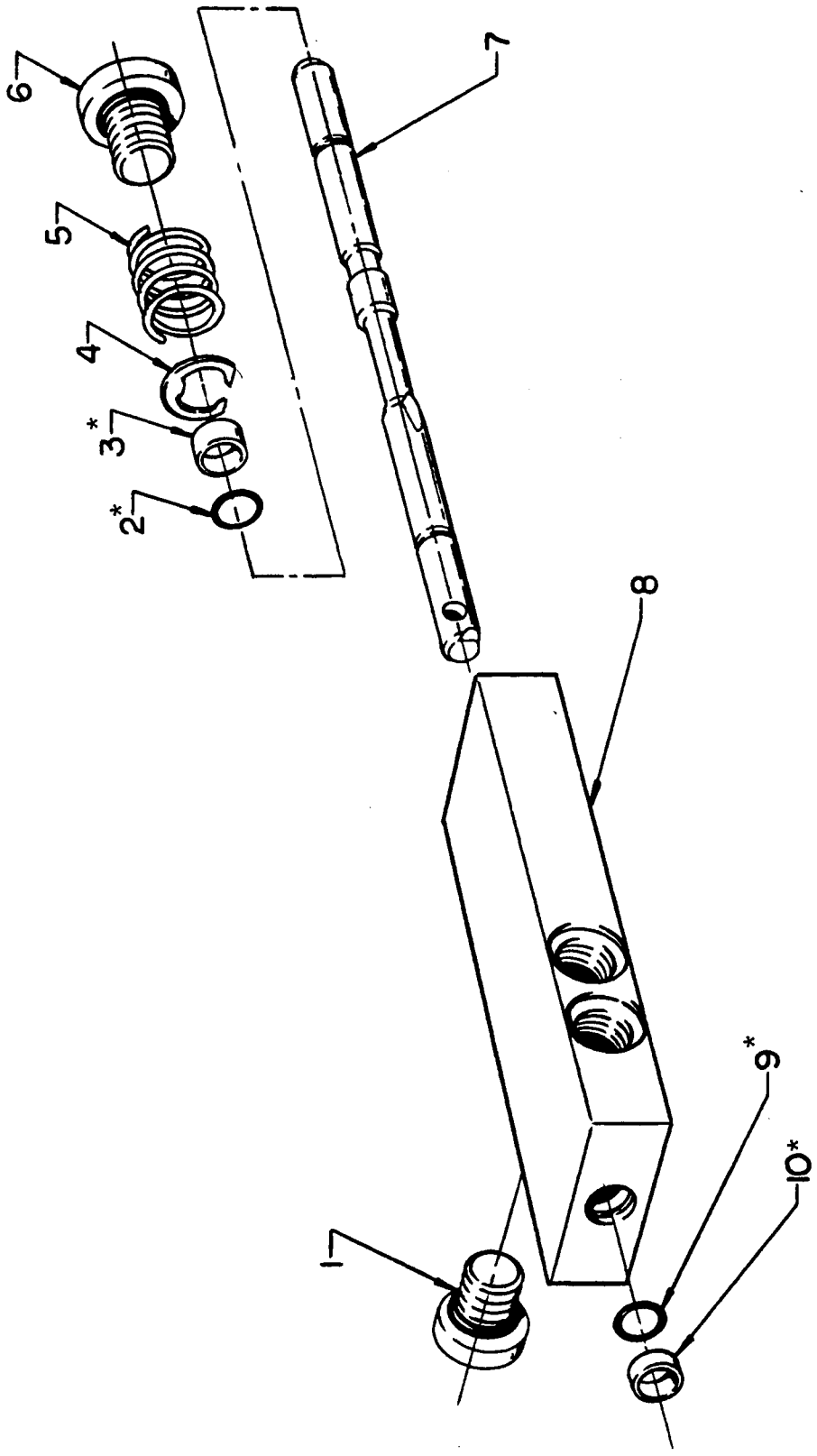
1183/0677

DESCRIPTION	PART NO.
ACCUMULATOR	01-001500

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			PLUG	1
2*			"O" RING	1
3*			BACKUP RING	1
4			SNAP RING	1
5			SPRING	1
6			PLUG	1
7			METERING SPOOL	1
8			VALVE BODY	1
9*			"O" RING	1
10			BACKUP RING	1
*	01-000901		SEAL KIT	1

DESCRIPTION	PART NO.
HPC VALVE	01-004700



NOTE:
*SEAL KIT P/N 01-000901

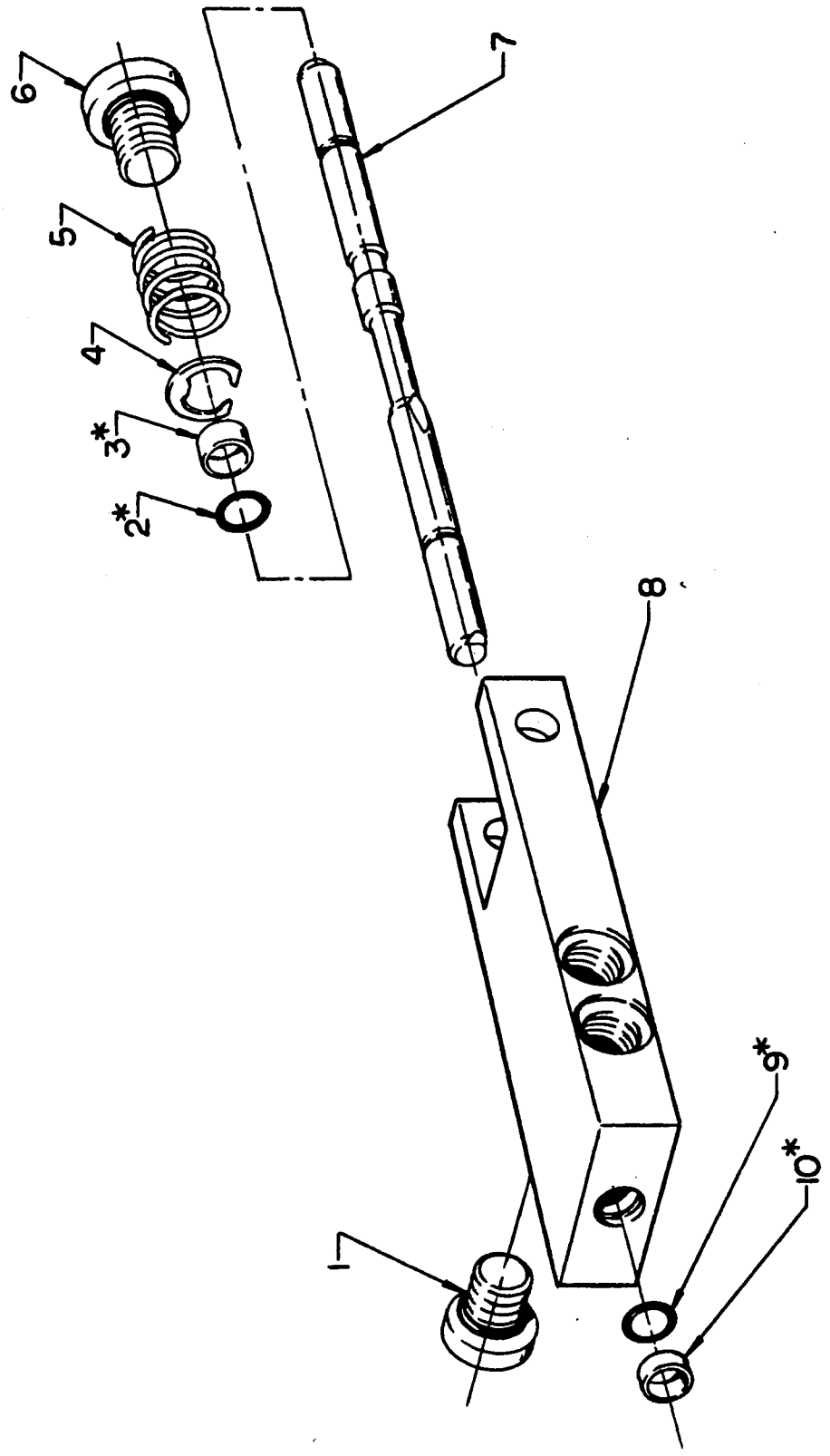
0484/0383

DESCRIPTION	PART NO.
HPC VALVE	01-004700

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			PLUG	1
2*			"O" RING	1
3*			BACKUP RING	1
4			SNAP RING	1
5			SPRING	1
6			PLUG	1
7			METERING SPOOL	1
8			VALVE BODY	1
9*			"O" RING	1
10*			BACKUP RING	1
*	01-000901		SEAL KIT	1

DESCRIPTION	PART NO.
HPC VALVE	01-000900



NOTE:
* SEAL KIT P/N 01-000901

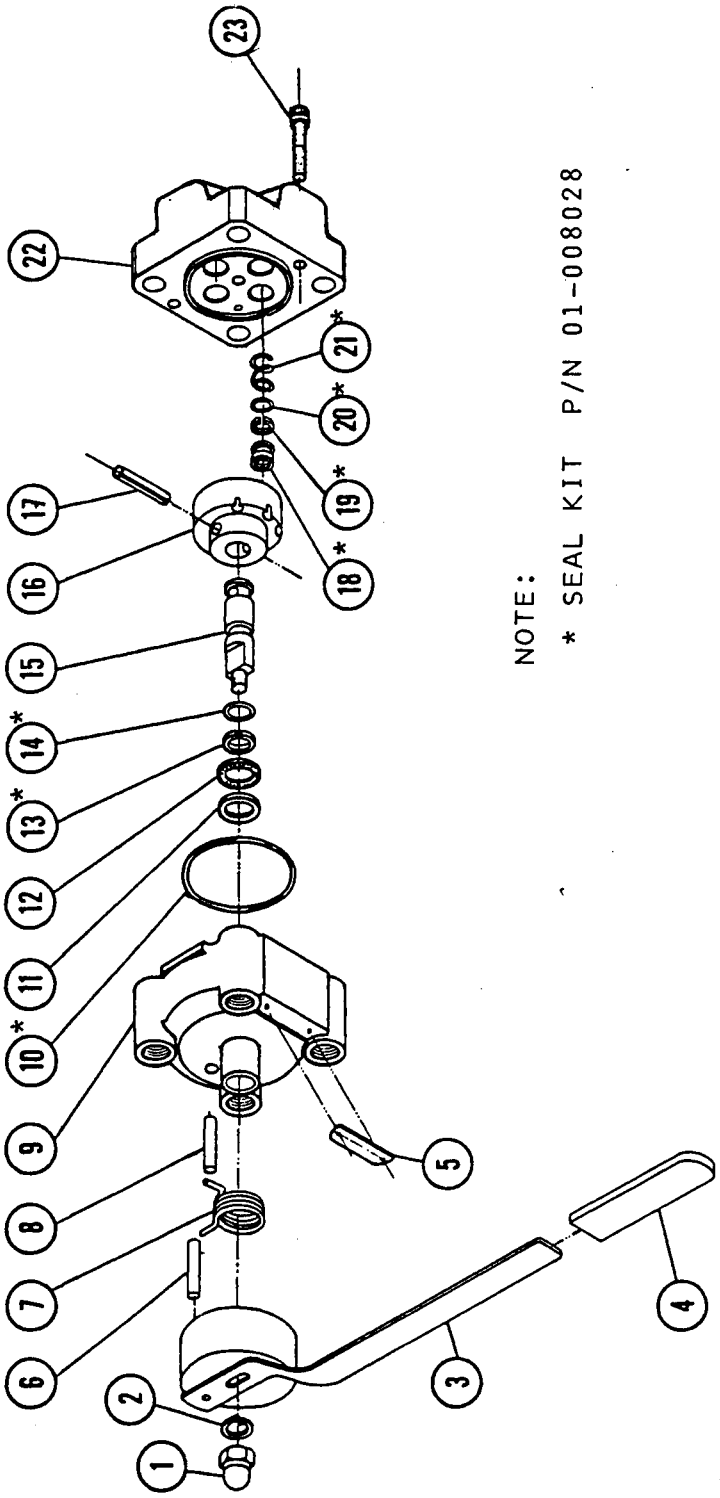
0984 /0677

DESCRIPTION	PART NO.
HPC VALVE	01-000900

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			ACORN NUT	1
2			LOCKWASHER	1
3	01-008001		HANDLE	1
4	01-008002		HANDLE GRIP	1
5			NAMEPLATE	1
6			HUB DOWEL PIN	1
7	01-008003		TORSION SPRING	1
8			HOUSING ROLL PIN	1
9			HOUSING	1
10*			HOUSING "O" RING	1
11			THRUST WASHER	1
12			THRUST BEARING	1
13*			SHAFT BACKUP RING	1
14*			SHAFT "O" RING	1
15			SHAFT	1
16			ROTOR	1
17			ROTOR ROLL PIN	1
18*			SEAL	3
19*			BACKUP RING	3
20*			"O" RING	3
21*			SPRING	3
22			BODY	1
23			CAP SCREW	4
*	01-008028		SEAL KIT	

DESCRIPTION	PART NO.
HPC VALVE, GROUND CONTROLS	01-032600



NOTE:
* SEAL KIT P/N 01-008028

0584/0677

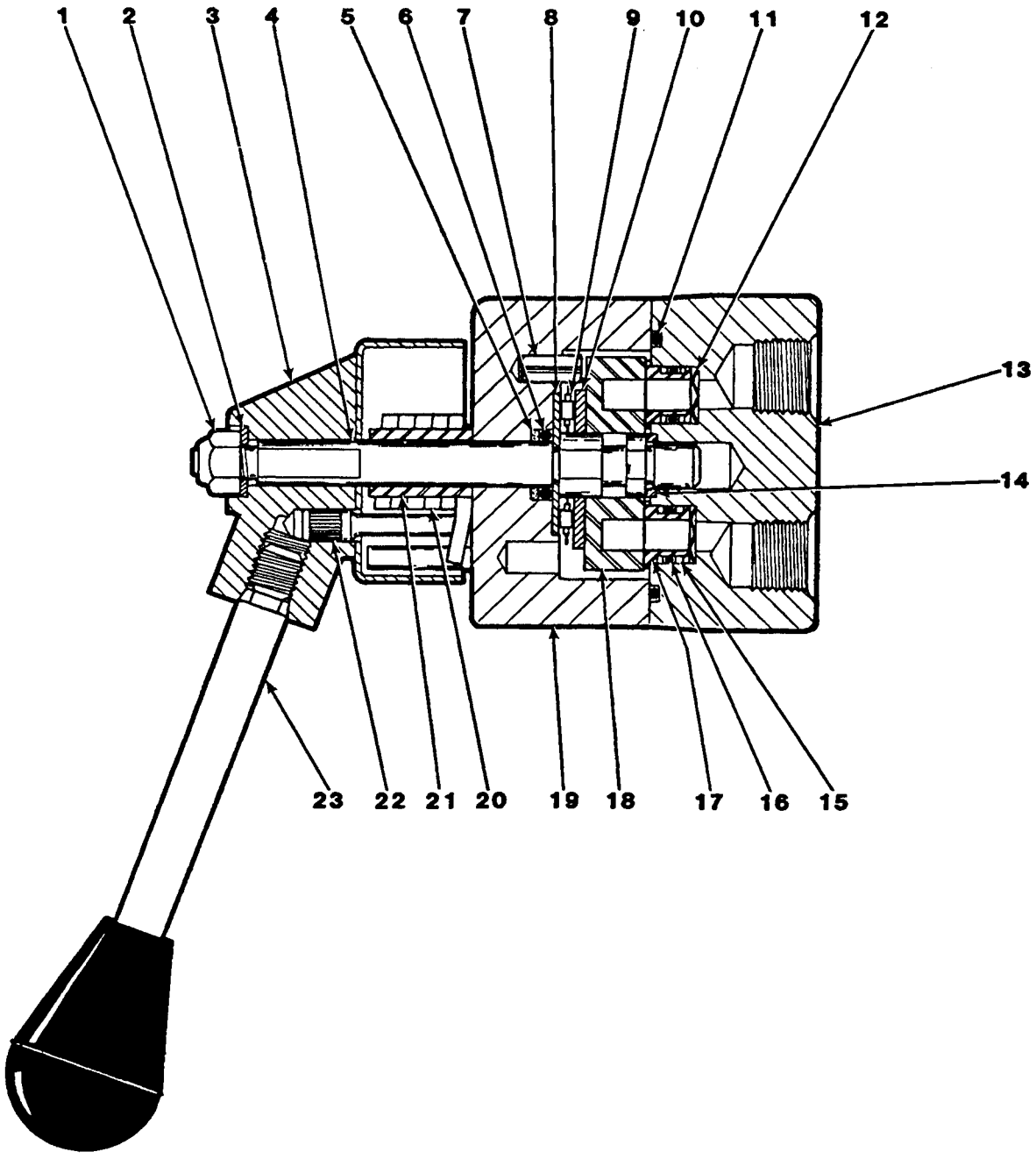
DESCRIPTION	PART NO.
HPC VALVE, GROUND CONTROLS	01-032600

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-069802		NUT, LOCK (1/4"-28)	1
2	01-069803		WASHER, HANDLE	1
3	01-069801		HANDLE ASSEMBLY (includes Handle, item 23)	1
4			SHAFT, VALVE HANDLE	1
5	01-069805		RING, BACK-UP	1
6	01-069806		"O"-RING	1
7	01-069807		PIN, ROLL	2
8	01-069808		RACE, BEARING	1
9	01-069809		BEARING, THRUST	1
10	01-069810		PLATE, STOP	1
11	01-069811		"O"-RING	1
12	01-069812		SPRING, SEAL	
13	01-069813		BODY, VALVE	1
14	01-069814		WASHER, SHAFT	1
15	01-069815		RING, BACK-UP	4
16	01-069816		"O"-RING	2
17	01-069817		SEAL	2
18	01-069818		DISK ASSEMBLY	1
19	01-069819		CAP	1
20	01-069820		SPRING	1
21	01-069821		BUSHING	1
22	01-069822		PIN	1
23			HANDLE (comes with Handle Assembly, item 3)	1

TITLE: 4-WAY MANUAL CONTROL VALVE

PLATE NO. D05.05 | **SIMON AERIALS INC.** REV. 10/01/90 | PART NO. 01-069800



1086/1286

TITLE

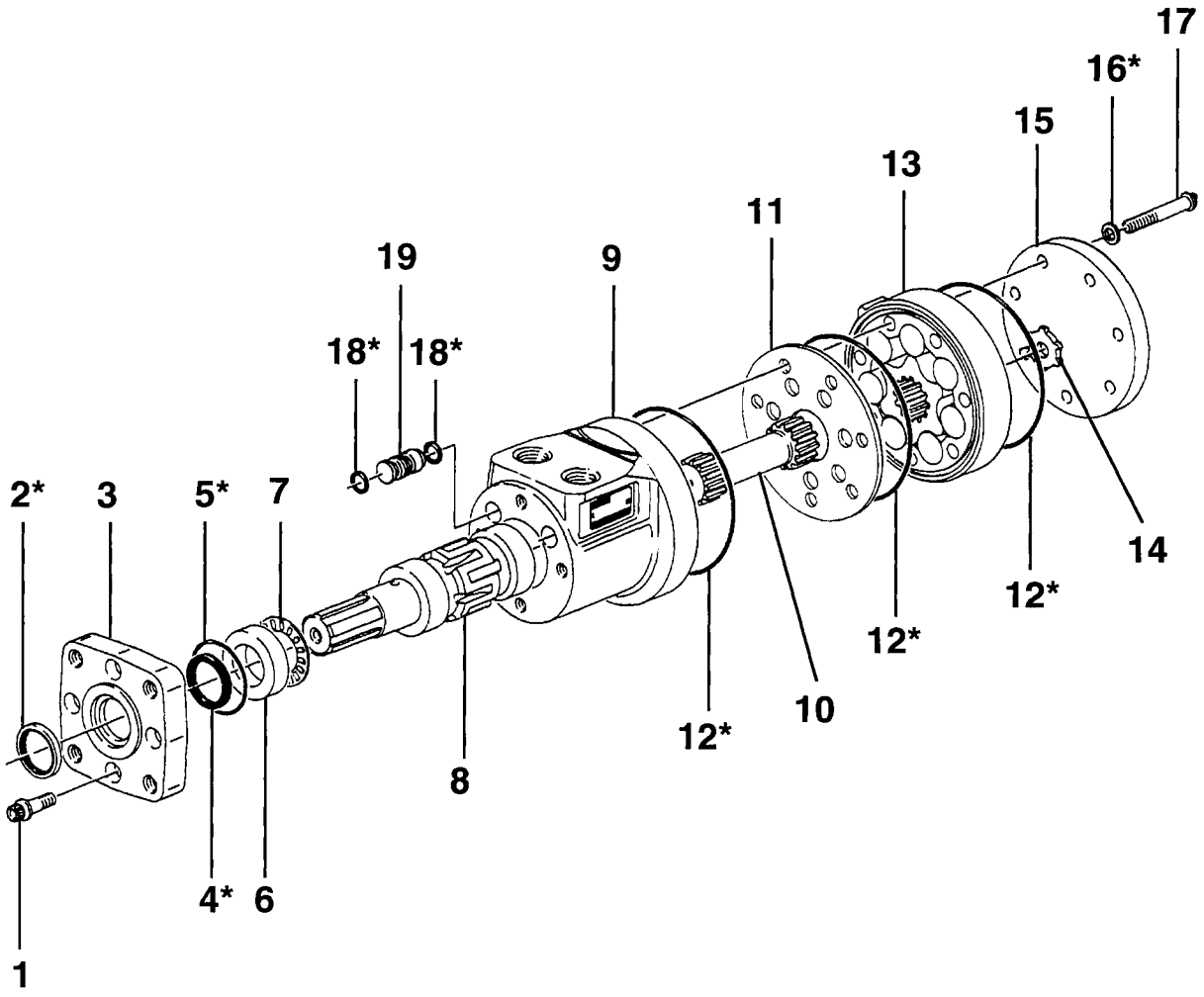
4-WAY MANUAL CONTROL VALVE

SIMON AERIALS INC.	REV. 10/01/90	PART NO. 01-069800	PLATE NO. D05.05

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			CAPSCREW	4
2		*	SEAL, DUST	1
3	01-002102		MOUNTING FLANGE	1
4		*	SEAL, SHAFT	1
5		*	O-RING	1
6			THRUST BEARING RACE	1
7			THRUST BEARING	1
8			SHAFT	1
9			HOUSING	1
10			SHAFT, DRIVE	1
11			PLATE, SPACER	1
12			O-RING	3
13			GEROLER	1
14			SPACER	1
15			END CAP	1
16			SEAL, WASHER	7
17			CAPSCREW	7
18			O-RING	2
19			BALL CHECK ASSEMBLY	1
20	01-004101		SEAL KIT (*denotes part or seal kit)	1

TITLE	SWING MOTOR		
PLATE NO. D06.05	**SIMON AERIALS INC.**	REV. 26 FEB. '96	PART NO. 01-004100



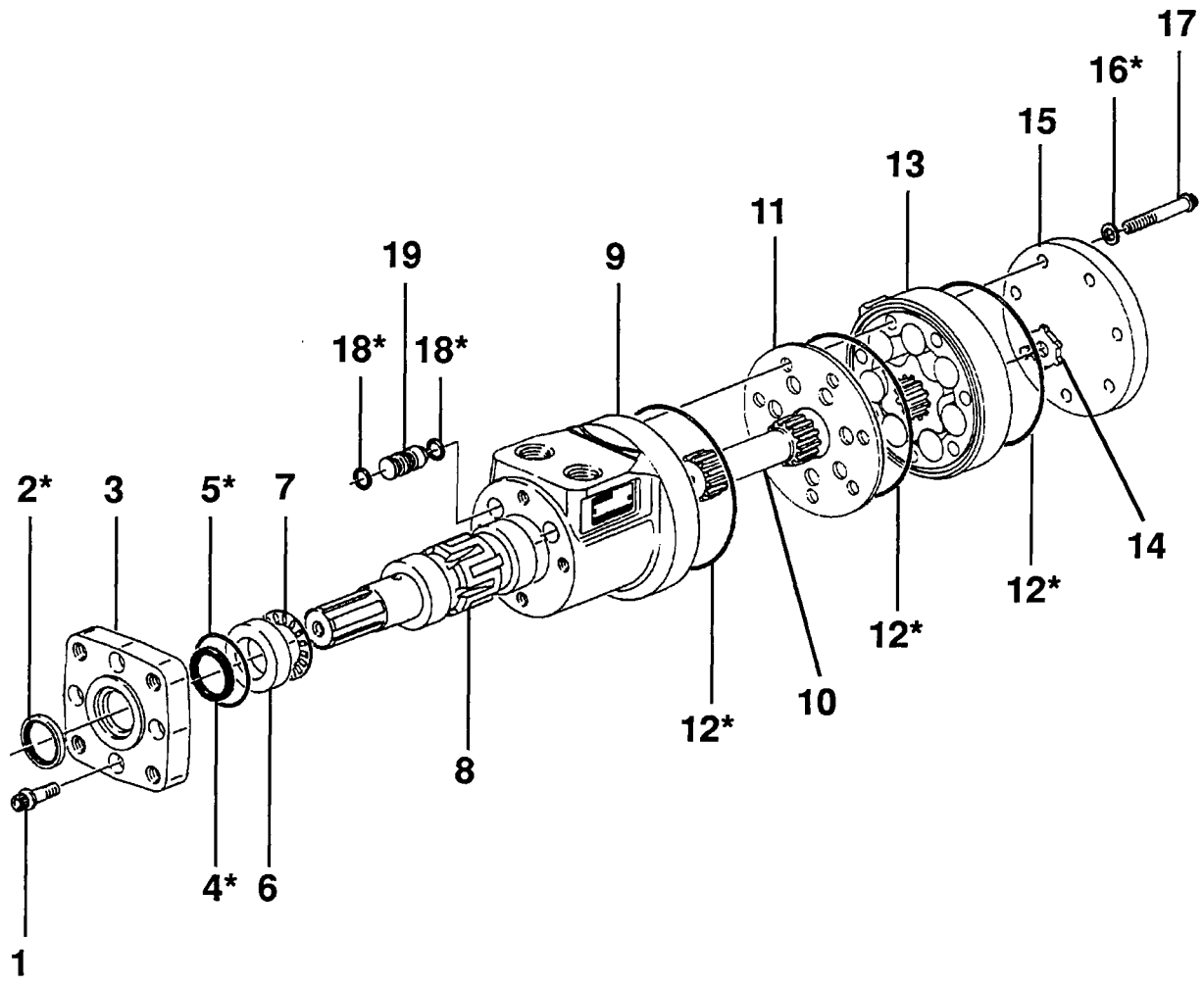
TITLE	SWING MOTOR		
SIMON AERIALS INC. REV. 26 FEB. '96	PART NO. 01-004100	PLATE NO. D06.05	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			CAPSCREW	4
2		*	SEAL, DUST	1
3	01-002102		MOUNTING FLANGE	1
4		*	SEAL, SHAFT	1
5		*	O-RING	1
6			THRUST BEARING RACE	1
7			THRUST BEARING	1
8			SHAFT	1
9			HOUSING	1
10			SHAFT, DRIVE	1
11			PLATE, SPACER	1
12			O-RING	3
13			GEROLER	1
14			SPACER	1
15			END CAP	1
16			SEAL, WASHER	7
17			CAPSCREW	7
18			O-RING	2
19			BALL CHECK ASSEMBLY	1
20	01-004101		SEAL KIT	1

TITLE: SWING MOTOR

PLATE NO. D06.06 | **SIMON AERIALS INC.** REV. 11/15/90 | PART NO. 01-009000



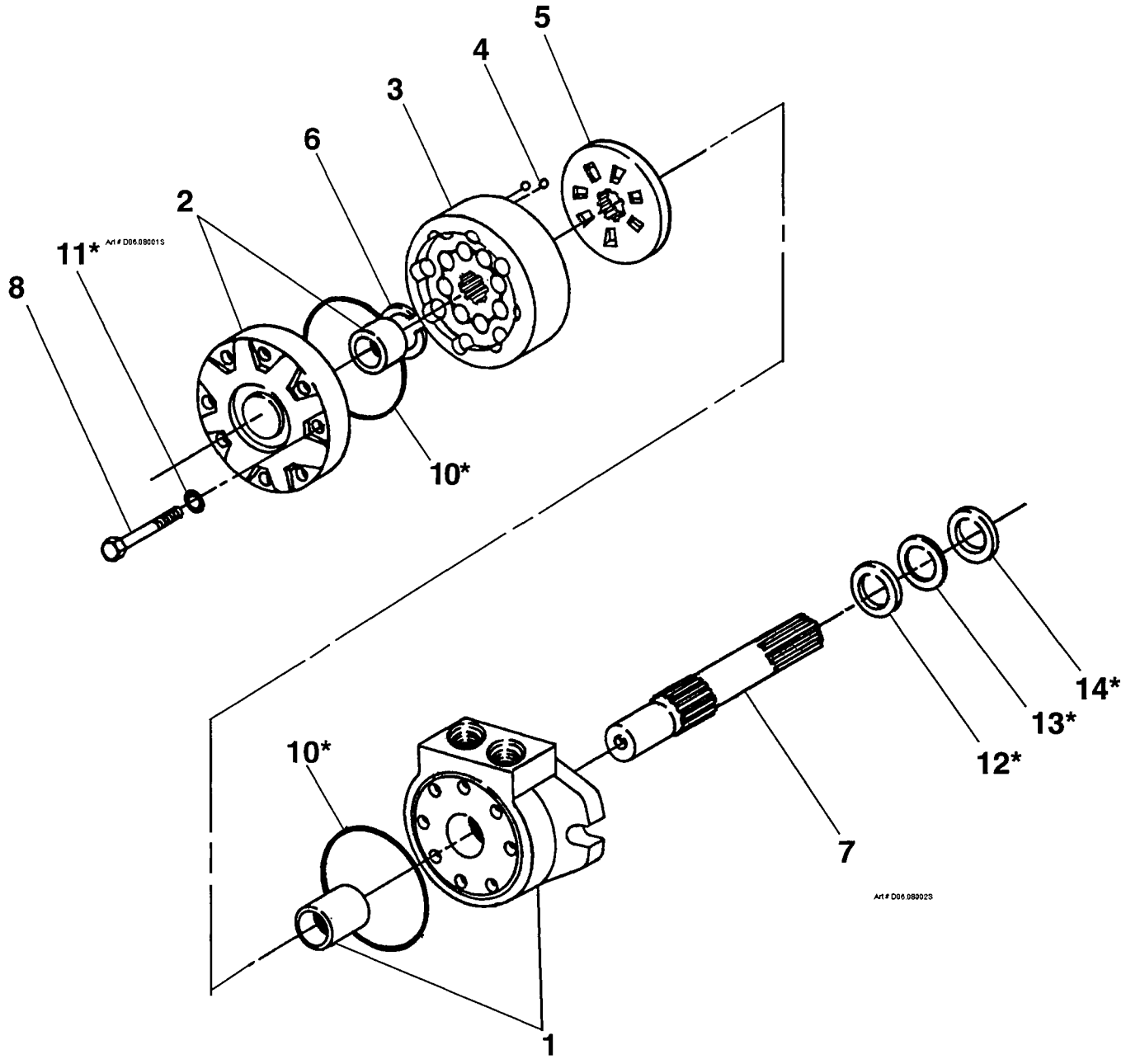
TITLE	SWING MOTOR		
SIMON AERIALS INC. REV. 11/15/90	PART NO. 01-009000	PLATE NO. D06.06	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			BODY ASSEMBLY, MOTOR (with bearing)	1
2			COVER ASSEMBLY (with bearing)	1
3	01-005702		IGR ASSEMBLY (with ring)	1
4			VALVE, BALL CHECK	2
5			VALVE, ROTARY	1
6			RING, SNAP	1
7			SHAFT	1
8			CAP SCREW, HEX HEAD	8
9	01-005701		SEAL KIT **Note:** Items in seal kit identified by asterisk (*).	1
10			SEAL, SQUARE RING	2
11			SEAL, WASHER	8
12			SEAL, QUAD RING	1
13			RING, BACKUP	1
14			SEAL, DUST	1

TITLE SWING MOTOR

PLATE NO. D06.08 | **SIMON AERIALS INC.** REV. 06 JUN., 1995 | **PART NO.** 01-005700

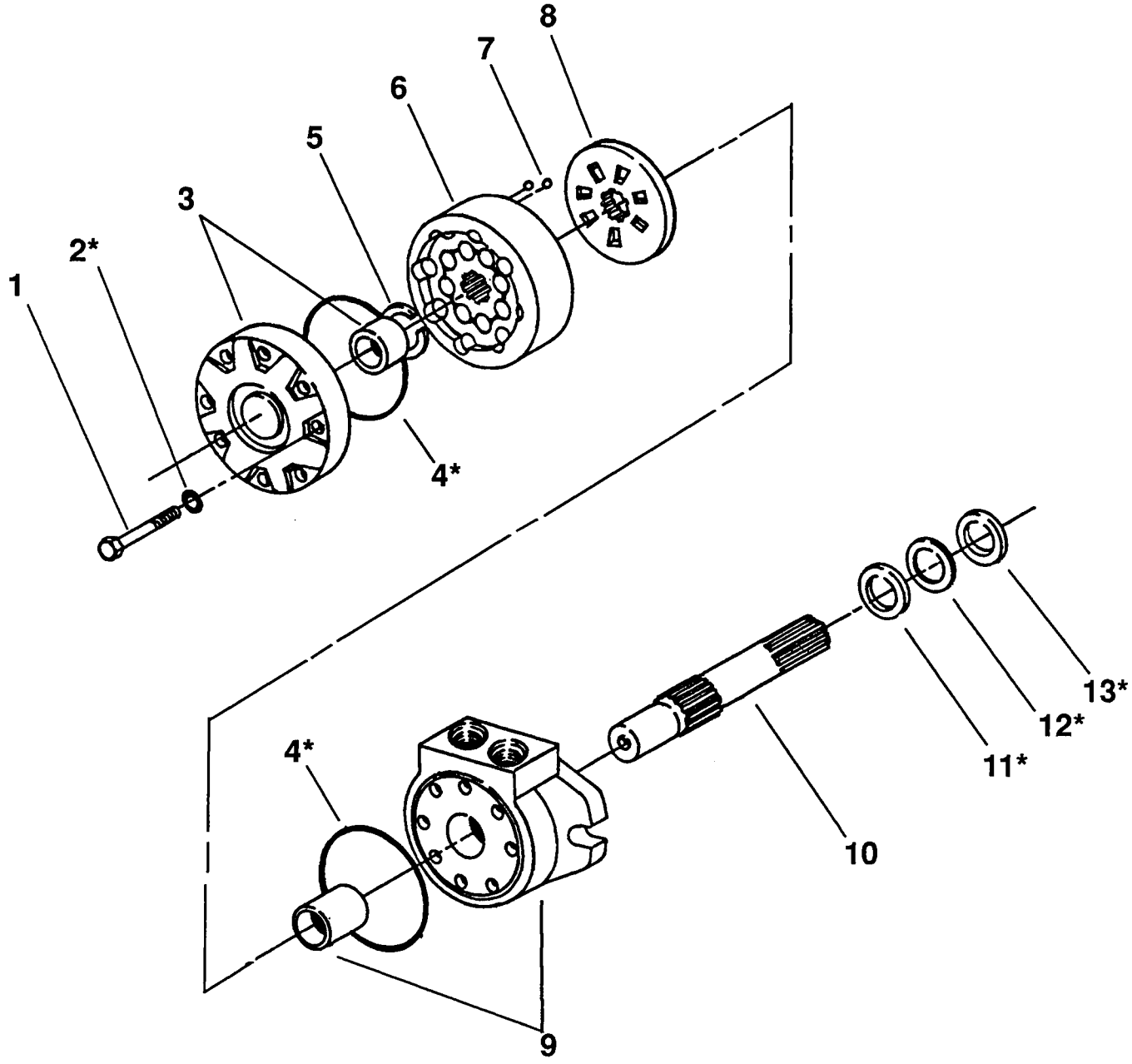


TITLE	SWING MOTOR				
SIMON AERIALS INC.	REV. 06 JUN., 1995	PART NO.	01-005700	PLATE NO.	D06.08

PARTS LIST

ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
1			HHCS	8
2*			SEAL, WASHER	8
3			COVER/BEARING ASSEMBLY	1
4			SEAL, SQUARE RING	2
5			RING, SNAP	1
6			IGR ASSEMBLY W/RING	1
7			VALVE, BALL CHECK	2
8			VALVE, ROTARY	1
9			BODY/BEARING ASSEMBLY	1
10			SHAFT	1
11*			SEAL, QUAD RING	1
12*			RING, BACKUP	1
13*			SEAL, DUST	1
*	01-005701		SEAL KIT **NOTE:** ITEMS IN SEAL KIT IDENTIFIED BY ASTERISK (*).	1

TITLE	SWING MOTOR	
PLATE NO. D06.10	**SIMON AERIALS INC.** REV. 06/01/90	PART NO.



TITLE	SWING MOTOR		
SIMON AERIALS INC. REV. 06/01/90		PART NO.	PLATE NO. D06.10

PARTS LIST

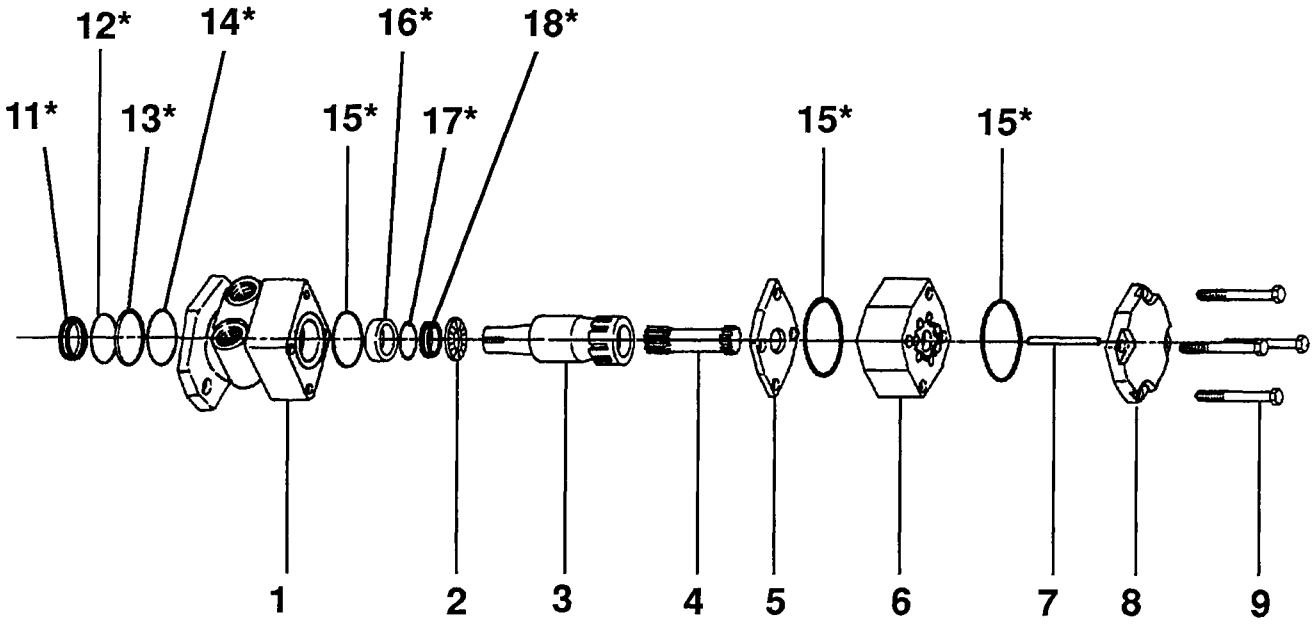
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			HOUSING, SWING MOTOR	1
2			BEARING, THRUST	1
3			SHAFT, SWING MOTOR	1
4			LINK, DRIVE	1
5			PLATE, WEAR	1
6			STATOR, ROLLER	1
7			PIN	1
8			COVER, END	1
9			SCREW	4
10	01-002101		SEAL KIT	1
11			SEAL, DUST	1
12			RING, WIRE	1
13			SHIM	1
14			SEAL	1
15			SEAL	3
16			CARRIER, SEAL	1
17			SHIM	1
18			SEAL, SHAFT	1

TITLE: SWING MOTOR

PLATE NO. D06.11

SIMON AERIALS INC. NEW 10/31/90

PART NO. 01-002100



NOTE: ITEMS IN SEAL KIT #10 IDENTIFIED BY AN ASTERISK (*).

TITLE	SWING MOTOR		
SIMON AERIALS INC. NEW 10/31/90	PART NO. 01-002100	PLATE NO. D06.11	

PARTS LIST

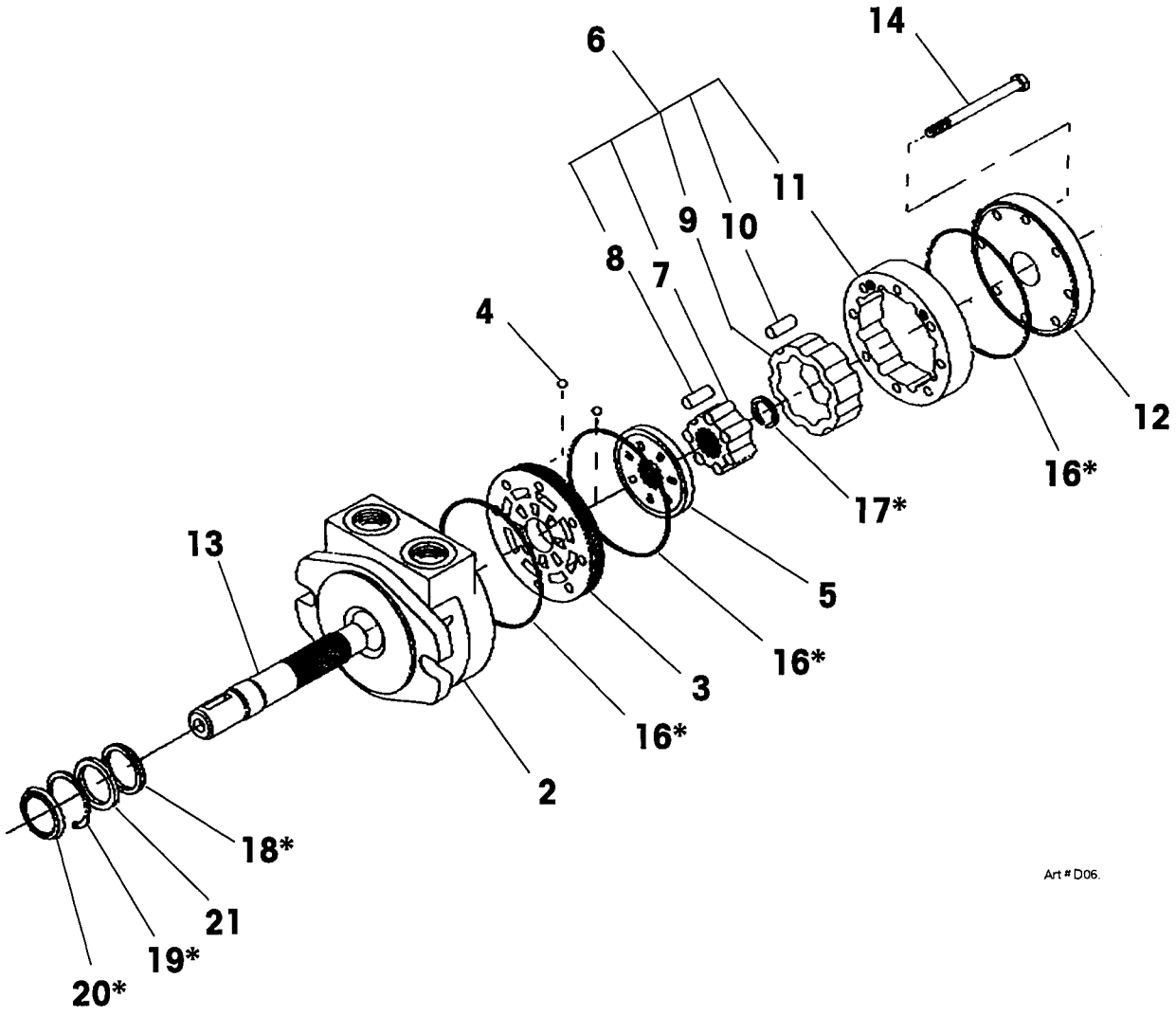
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-215500		MOTOR ASSEMBLY (Motor I.D. tag reads "**111A 164 AS 0**")	
			(16.4 c.i. [269 c.c.]/ rev. displacement)	1
2			BODY ASSEMBLY, MOTOR (with bearing) (SAE "A", 2 bolt)	1
3			PLATE, COMMUTATOR	1
4			BALL, CHECK VALVE	2
5			VALVE, ROTARY	1
6			ROTOR ELEMENT (IGR Assembly)	1
7			ROTOR, INNER	1
8			ROLL, SEALING	A.R.
9			ROTOR, OUTER	1
10			ROLLER, ANTI-ROTATION	A.R.
11			RING, LOCATING	1
12			COVER ASSEMBLY (with bearing)	1
13	01-215502		SHAFT (1" SAE 6B spline)	1
14			CAP SCREW, HEX HEAD (5/16"-24)	8
15	01-215501		SEAL KIT **Note:** Items in seal kit identified by asterisk (*).	1
16			SEAL, SQUARE RING (7/16")	3
17			RING, SNAP	1
18			SEAL, LIP	1
19			RING, SNAP	1
20			SEAL, DUST	1
21			RING, BACKUP	1

TITLE

SWING MOTOR

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
D06.	12	01	-	19 JUL., 1994	01-215 500

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172



Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172

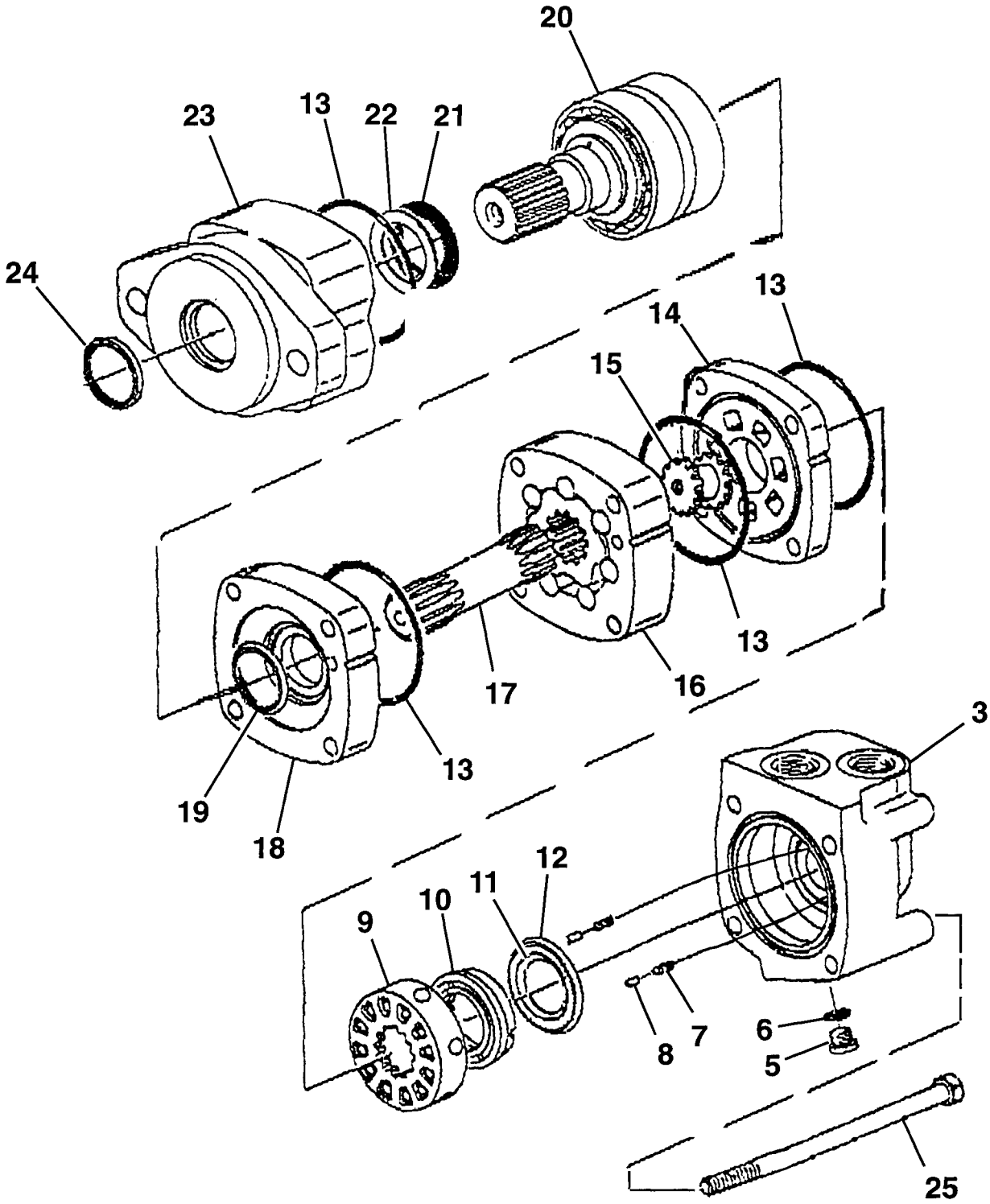
TITLE: SWING MOTOR

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
01-215 500	-	19 JUL., 1994	D06.	12	01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-231601		SEAL KIT, MOTOR **Note:** items in kit identified by asterisk **(*)**	1
2	01-231600		MOTOR ASSEMBLY (Motor I.D. tag reads **"104 1020 006"**)	
			[14.9 c.i. (244 c.c.)/ rev. displacement]	1
3			HOUSING ASSEMBLY, VALVE	1
4			PLUG ASSEMBLY	2
5			PLUG	1
6		*	"O"-RING	1
7			SPRING	2
8			SCREW	2
9			VALVE	1
10			RING, BALANCE (with pins)	1
11		*	"O"-RING	1
12		*	RING, BACKUP	1
13		*	SEAL	4
14			PLATE, VALVE	1
15			DRIVE, VALVE	1
16			GEROLER	1
17			SHAFT, DRIVE	1
18			PLATE, WEAR	1
19		*	SEAL, SHAFT FACE	1
20	01-231602		SHAFT AND BEARING ASSEMBLY (1" SAE 6B spline)	1
21		*	SEAL, SHAFT	1
22		*	RING, BACKUP	1
23			HOUSING, BEARING (SAE "A" 2 bolt mount)	1
24		*	SEAL, DUST [1-9/16" (40 mm)]	1
25			BOLT, HEX HEAD	4

TITLE	SWING MOTOR ASSEMBLY	
PLATE NO. D06.13	**SIMON AERIALS INC.** NEW 19 JUL., 1994	PART NO. 01-231600

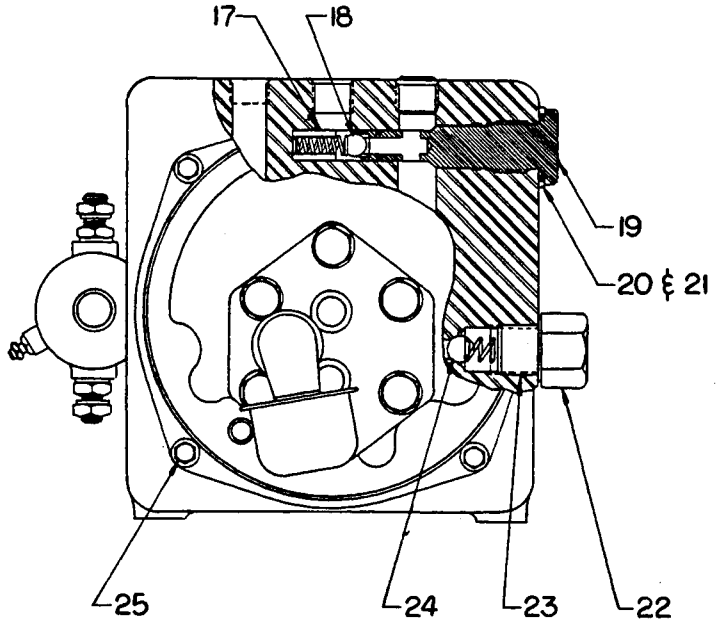


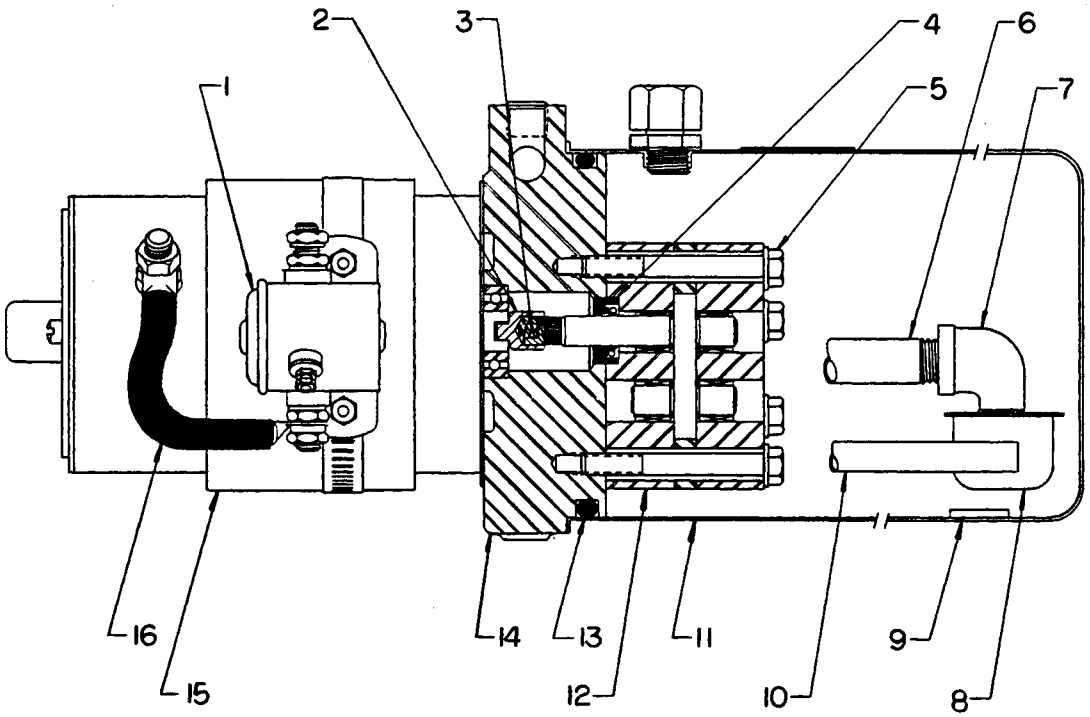
TITLE	SWING MOTOR ASSEMBLY		
SIMON AERIALS INC. NEW 19 JUL., 1994		PART NO. 01-231600	PLATE NO. D06.13

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-020201		SOLENOID	1
2	01-020213		COUPLING	1
3			SPRING	1
4	01-020212		SHAFT SEAL	1
5			HEX BOLT 5/16-24X2½	2
6			PIPE NIPPLE	1
7			STREET ELBOW	1
8			FILTER SCREEN	1
9			MAGNET	1
10			RETURN TUBE	1
11	01-020202		RESERVOIR	1
12	01-020207		PUMP	1
13	01-020203		'O' RING	1
14			END PLATE	1
15	01-020214		MOTOR	1
16			POWER CABLE	1
17			SPRING RETAINER	1
18	01-020209		SPRING & BALL ASSEMBLY	1
19	01-020208		CHECK CAP ASSEMBLY	1
20	01-020211		'O' RING	1
21	01-020210		SEAL RING	1
22	01-020205		RELIEF CAP	1
23			ADJUSTING SCREW	1
24	01-020206		SPRING & BALL ASSEMBLY	1
25			SCREW	4

DESCRIPTION	PART NO.
EMERGENCY PUMP	01-020200





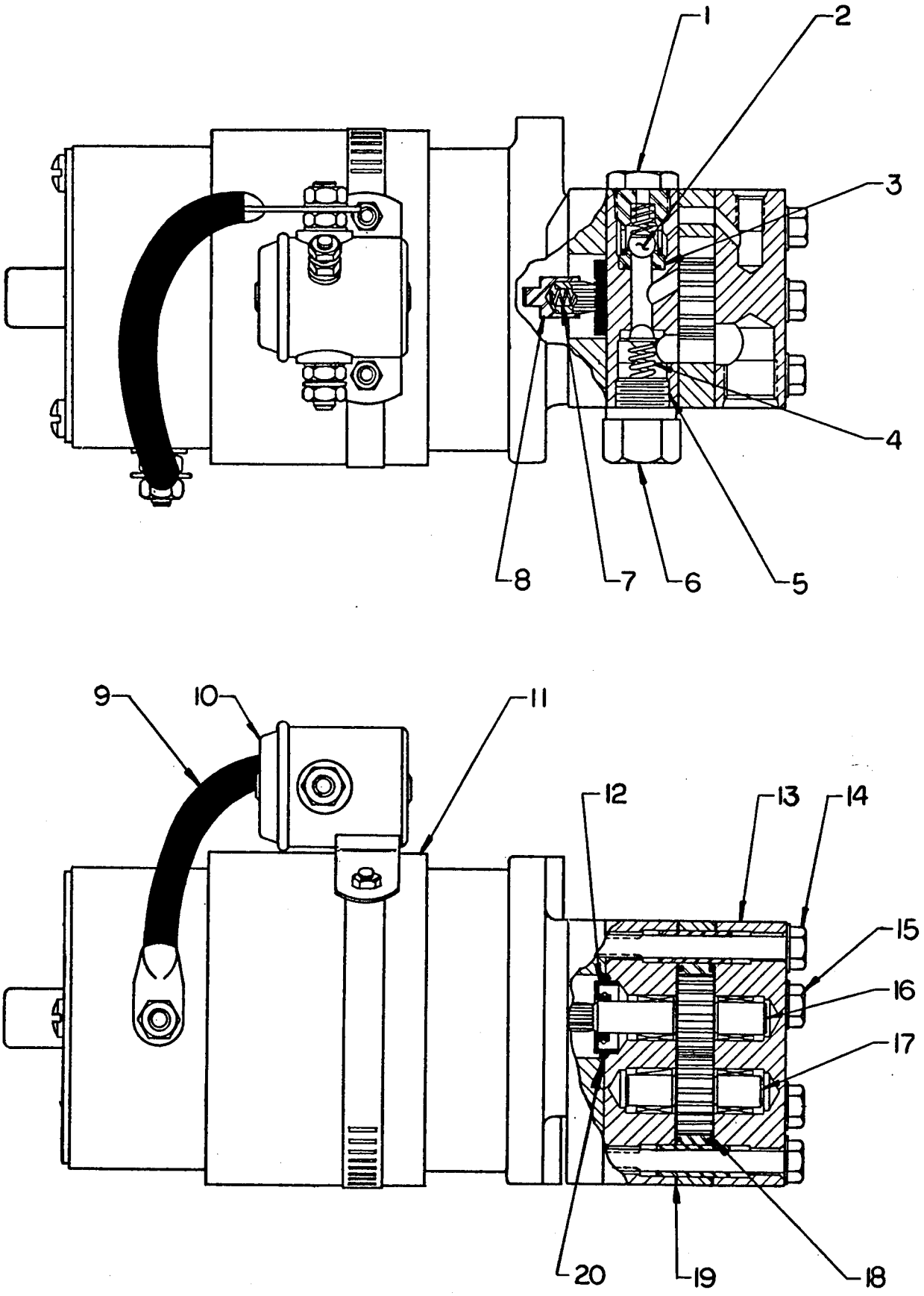
1283/0677

DESCRIPTION	PART NO.
EMERGENCY PUMP	01-020200

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			CHECK CAP ASSEMBLY	1
2			SPRING & BALL ASSEMBLY	1
3			CHECK SEAT ASSEMBLY	1
4	01-020206		SPRING & BALL ASSEMBLY	1
5			ADJUSTING SCREW	1
6			RELIEF CAP	1
7			SPRING	1
8	01-020213		COUPLING	1
9			POWER CABLE	1
10	01-020201		SOLENOID	1
11	01-020214		MOTOR	1
12	01-020212		SHAFT SEAL	1
13			PUMP ASSEMBLY (COMPLETE)	1
14			HEX HD. CAP SCREW 5/16-24X2-3/4	2
15			HEX HD. CAP SCREW 5/16-24X2-1/4	4
16			DRIVE SHAFT	1
17			IDLER SHAFT	1
18			'O' RING	2
19			GASKET	1
20	01-007201		'O' RING (FOR FIELD REPAIR)	1

DESCRIPTION	PART NO.
EMERGENCY PUMP	01-007200



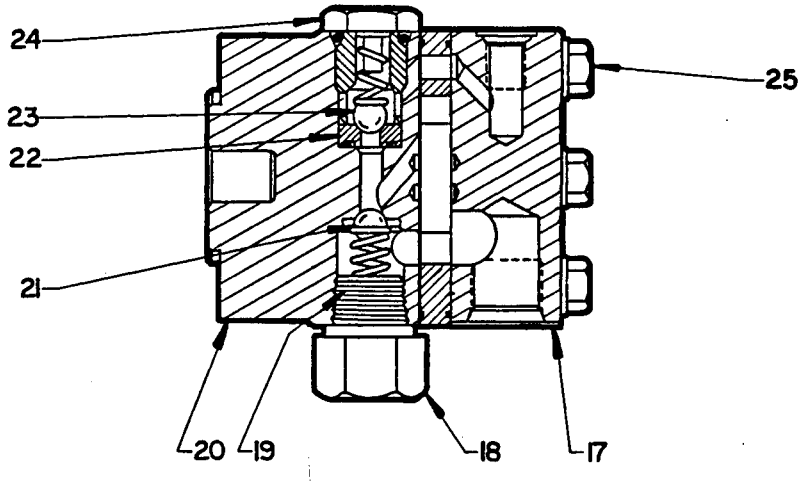
0484/040284

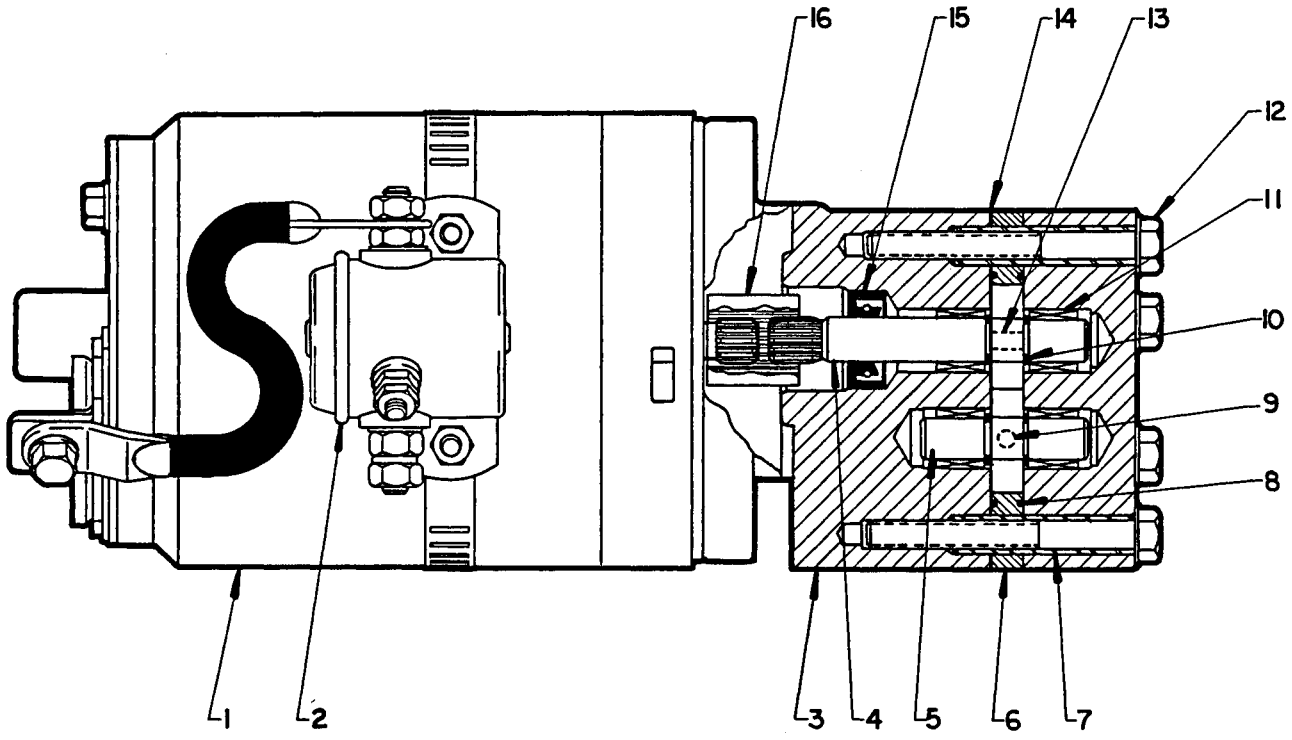
DESCRIPTION	PART NO.
EMERGENCY PUMP	01-007200

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			MOTOR	1
2	01-020201		SOLENOID RELAY	1
3			PUMP ASSEMBLY (COMPLETE)	1
4			DRIVE SHAFT	1
5			IDLER SHAFT	1
6			GEAR & HOUSING SET	1
7			DOWEL PIN	2
8			'O' RING	2
9			.156 DIA. BALL	1
10			RETAINING RING	4
11			NEEDLE BEARING	4
12			H.H.C.S. 5/16-24 X 2½" LG.	2
13			DRIVE PIN	1
14			.001 GASKET	1
15	01-020212		DRIVE SHAFT OIL SEAL	1
16			COUPLING	1
17			BACK COVER	1
18			RELIEF CAP	1
19			ADJUSTING SCREW	1
20			FRONT COVER	1
21	01-020206		SPRING & BALL ASSEMBLY (RELIEF)	1
22			VALVE SEAT ASSEMBLY	1
23			SPRING & BALL ASSEMBLY (CHECK)	1
24			CHECK CAP ASSEMBLY	1
25			H.H.C.S. 5/16-24 X 2" LG.	4

DESCRIPTION	PART NO.
EMERGENCY PUMP	01-027000





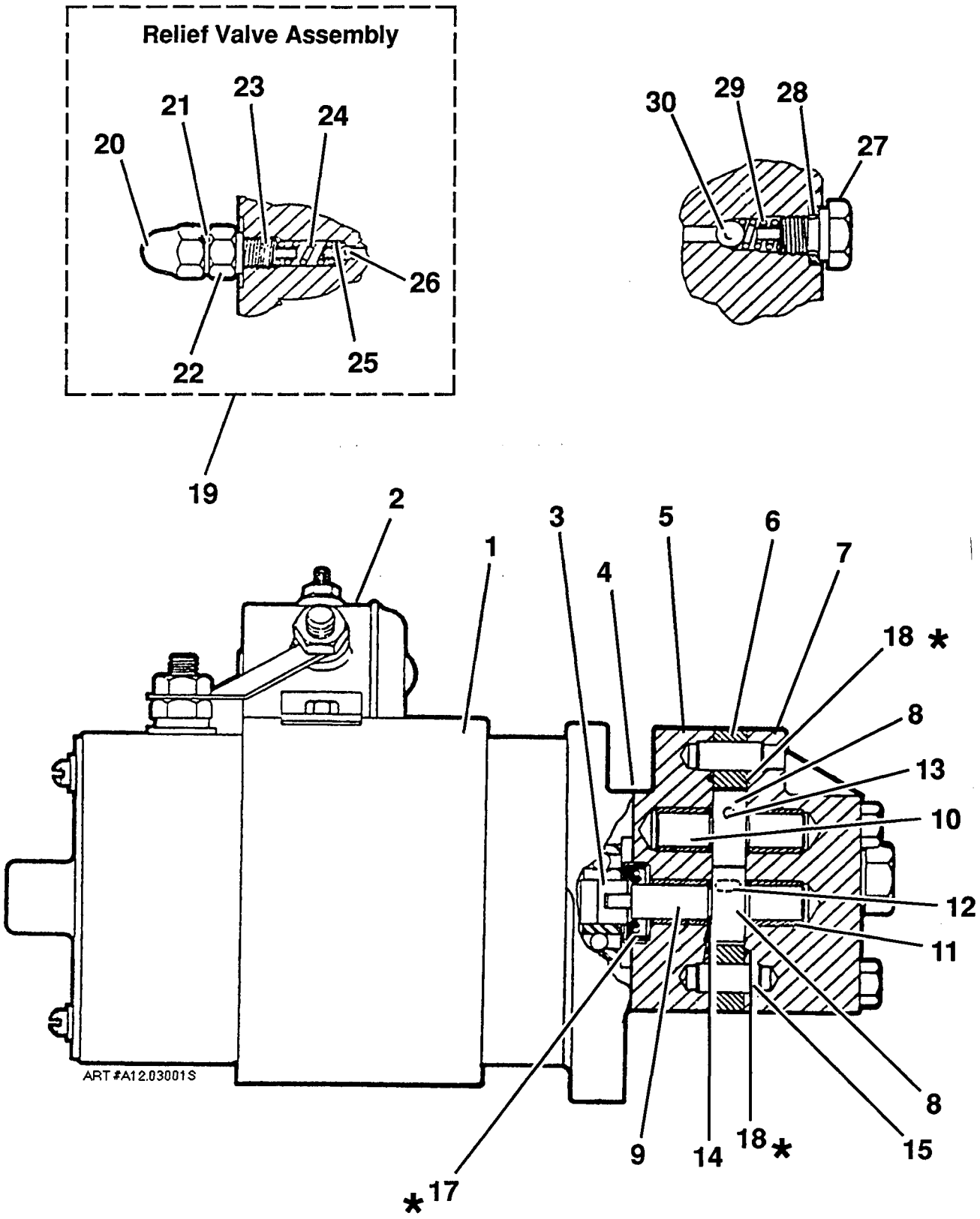
0385/0285

DESCRIPTION	PART NO.
EMERGENCY PUMP	01-027000

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-027204		MOTOR, ELECTRIC PUMP	1
2	01-027203		RELAY, SOLENOID.	1
3	01-027205		COUPLING, PUMP	1
4	01-027202		GASKET, PUMP	1
5			PLATE, DRIVE	1
6			CASE	1
7			PLATE, END	1
8			GEAR	2
9			SHAFT, DRIVE	1
10			SHAFT, IDLER	1
11			BEARING	4
12			KEY, DOWEL	1
13			BALL	1
14			RING, RETAINING	4
15			PIN, DOWEL	2
16	01-027201		SEAL KIT	1
			Note: Items in seal kit are identified by asterisk (*).	
17	*		SEAL, SHAFT	1
18	*		O-RING	2
19	01-027206		RELIEF VALVE ASSEMBLY	1
20			NUT, ACORN	1
21			GASKET, METAL	1
22			NUT, HEX JAM	1
23			SCREW, ADJUSTING	1
24			SPRING	1
25			GUIDE, SPRING	1
26			BALL	1
27			CAP, VALVE	1
28			WASHER, SEALING	1
29			SPRING	1
30			BALL	1

TITLE	EMERGENCY PUMP			
PLATE NO.	D07.04	**SIMON AERIALS INC.**	REV. 08 OCT., 1993	PART NO. 01-027200



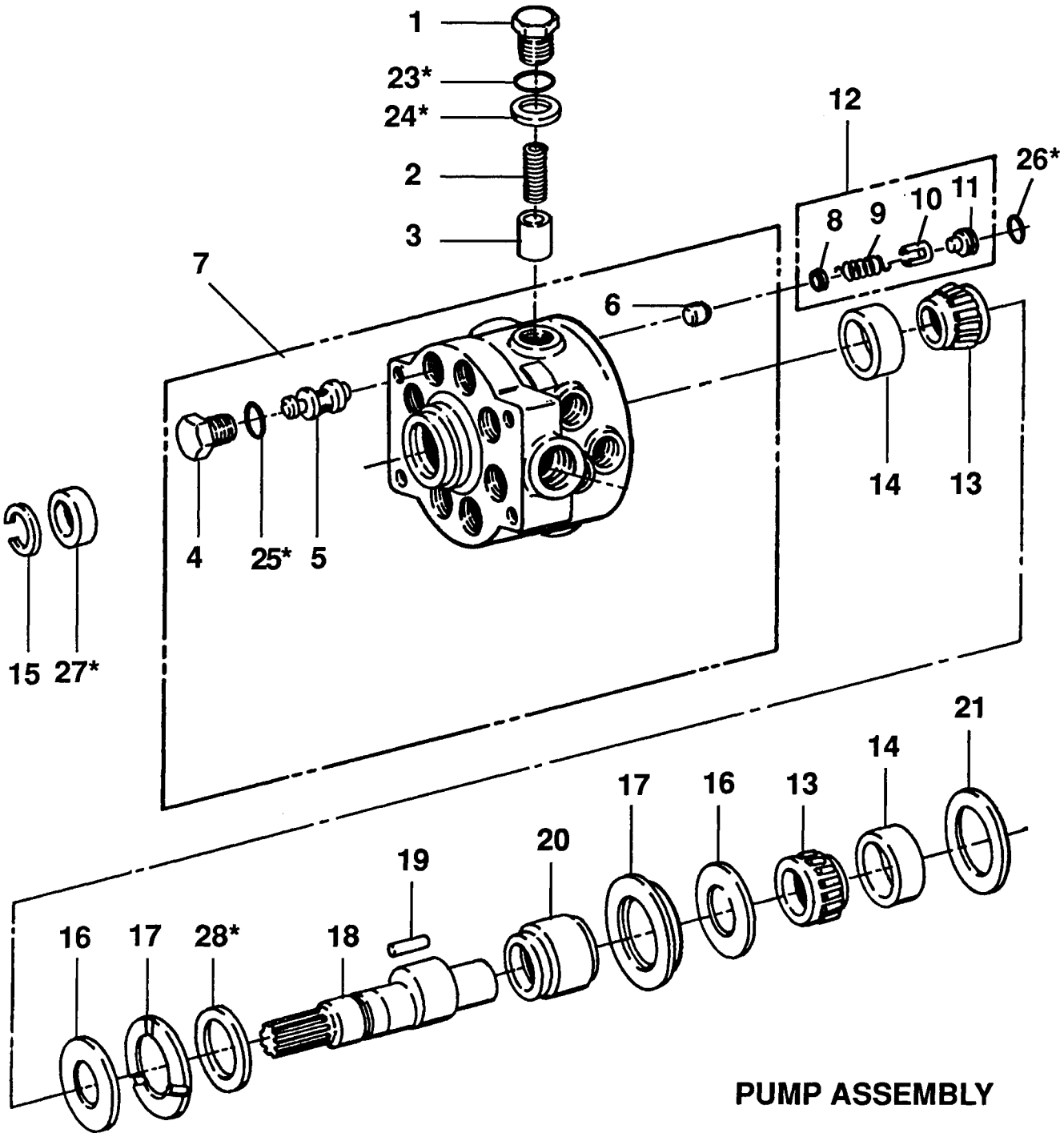
TITLE	EMERGENCY PUMP		
SIMON AERIALS INC. REV. 08 OCT., 1993	PART NO. 01-027200	PLATE NO. D07.04	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTIO
	01-007000		PUMP ASSEMBLY, HYDRAULI(
			Pump is marked " *ROPVE XX
			" *RP 1040 E0E0200* "
1			FITTING
2			SPRING
3	01-007007		PISTON
4			FITTING
5			VALVE, INLET
6			BUSHING
7			HOUSING
8	01-007008		DISK
9			SPRING
10			GUIDE
11			STOP
12			VALVE, DISCHARGE
13	01-002615		CONE, BEARING
14	01-002617		CUP, BEARING
15			RING, SNAP
16			WASHER
17	01-007003		WASHER, THRUST
18	01-007004		SHAFT
19	01-007005		ROLLER, NEEDLE
20	01-007006		RACE, BEARING
21	01-002624		SHIM (.006" thick)
	01-002625		SHIM (.010" thick)
22	01-007001		SEAL KIT (for complete pump, in
			on plate 2)
23			"O"-RING
24			SHIELD
25			"O"-RING
26			WASHER
27	01-002605		SEAL
28			RING
			Note: Items in seal kit identifie

TITLE HYDRAULIC PUMP (PLATE 1

PLATE NO. D08.01 | **SIMON AERIALS INC.** | REV. THIS



PUMP ASSEMBLY

Note: Items in seal kit identified by an asterisk (*).

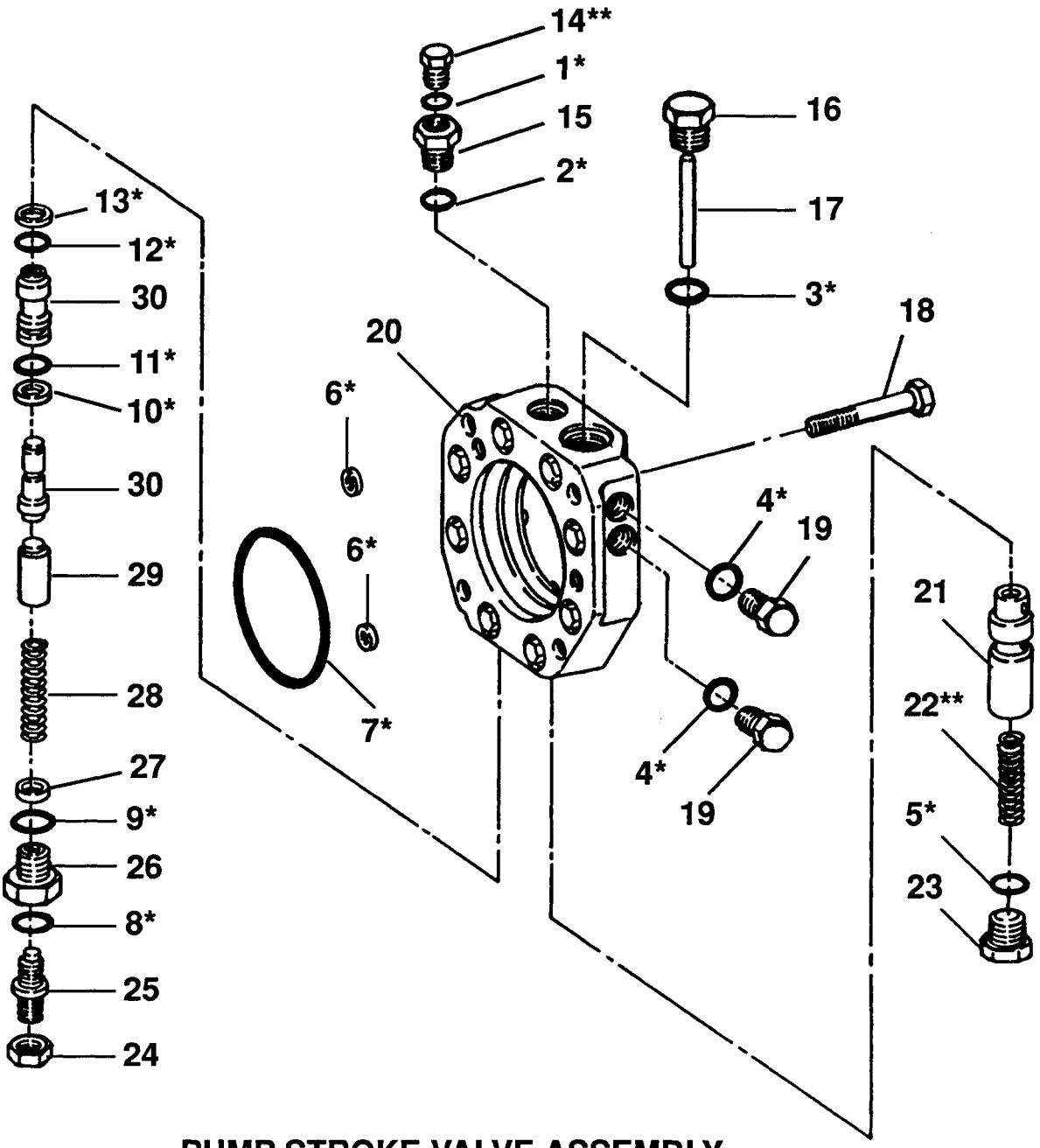
TITLE	HYDRAULIC PUMP (PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 9/17/91	PART NO. 01-007000	PLATE NO. D08.01	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	01-007001		SEAL KIT (for complete pump. Also see plate 1)	1
1			"O"-RING	1
2			"O"-RING	1
3			"O"-RING	1
4			"O"-RING	2
5			"O"-RING	1
6			WASHER	2
7			"O"-RING	1
8	01-002614		"O"-RING	1
9			"O"-RING	1
10			RING, BACK UP	1
11			"O"-RING	1
12			"O"-RING	1
13			RING, BACK UP	1
14		**	PLUG, DRAIN (Not used, HPC ports. Removal required)	
15	01-006602		PLUG	1
16			PLUG, DRAIN	1
17			PIN	1
18			CAP SCREW, HEX HEAD	4
19			PLUG, DRAIN	2
20			HOUSING	1
21			VALVE, CRANK CASE	1
22		**	SPRING (Not used. Removal required)	
23			PLUG, DRAIN	1
24			NUT	1
25			SCREW, SET	1
26			FITTING	1
27			WASHER	1
28			SPRING	1
29			GUIDE	1
30			VALVE, PRESSURE RELIEF (COMPENSATOR)	1
			Note: Items in seal kit identified by an asterisk (*).	
**			**Note:** Not used. Removal required.	

TITLE HYDRAULIC PUMP (PLATE 2 OF 2, PUMP STROKE VALVE ASSEMBLY)

PLATE NO. D08.01 | **SIMON AERIALS INC.** REV. 9/17/91 | PART NO. 01-007000



PUMP STROKE VALVE ASSEMBLY

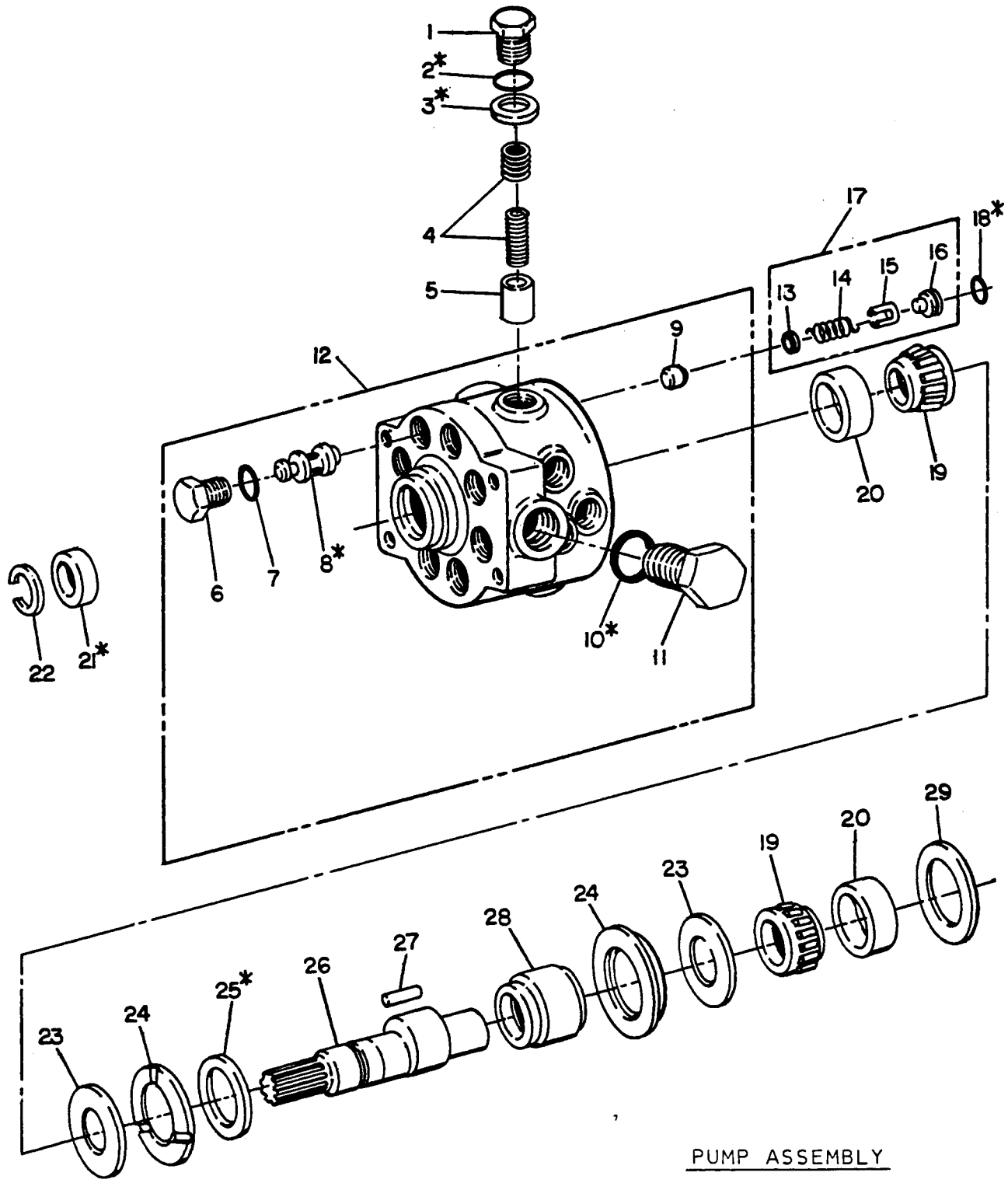
Note: Items in seal kit identified by an asterisk (*).
Item with double asterisk (**) not used, removal required.

TITLE HYDRAULIC PUMP (PLATE 2 OF 2, PUMP STROKE VALVE ASSEMBLY)			
SIMON AERIALS INC.	REV. 9/17/91	PART NO. 01-007000	PLATE NO. D08.01

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			FITTING	8
2*			"O" RING	8
3*			SHIELD	8
4	01-006603		SPRING ASSEMBLY	8
5	01-002621		PISTON	8
6			FITTING	8
7*			"O" RING	8
8			INLET VALVE	8
9			BUSHING	8
10*	01-002612		"O" RING	1
11			FITTNG	1
12			HOUSING	1
13			DISK	8
14			SPRING	8
15			GUIDE	8
16			STOP	8
17	01-006604		DISCHARGE VALVE	8
18*			WASHER	8
19	01-002615		BEARING CONE	2
20	01-002617		BEARING CUP	2
21*	01-002605		SEAL	1
22			SNAP RING	1
23			WASHER	2
24			THRUST WASHER	2
25*			SEALING RING	1
26			SHAFT	1
27			NEEDLE ROLLER	25
28			BEARING RACE	1
29	01-002624		SHIM (.006)	A.R.
30	01-002625		SHIM (.010)	A.R.
*	01-006601		SEAL KIT	

DESCRIPTION	PART NO.
HYDRAULIC PUMP	01-006600



PUMP ASSEMBLY

NOTE:
*PUMP SEAL KIT P/N 01-006601

0684/0983

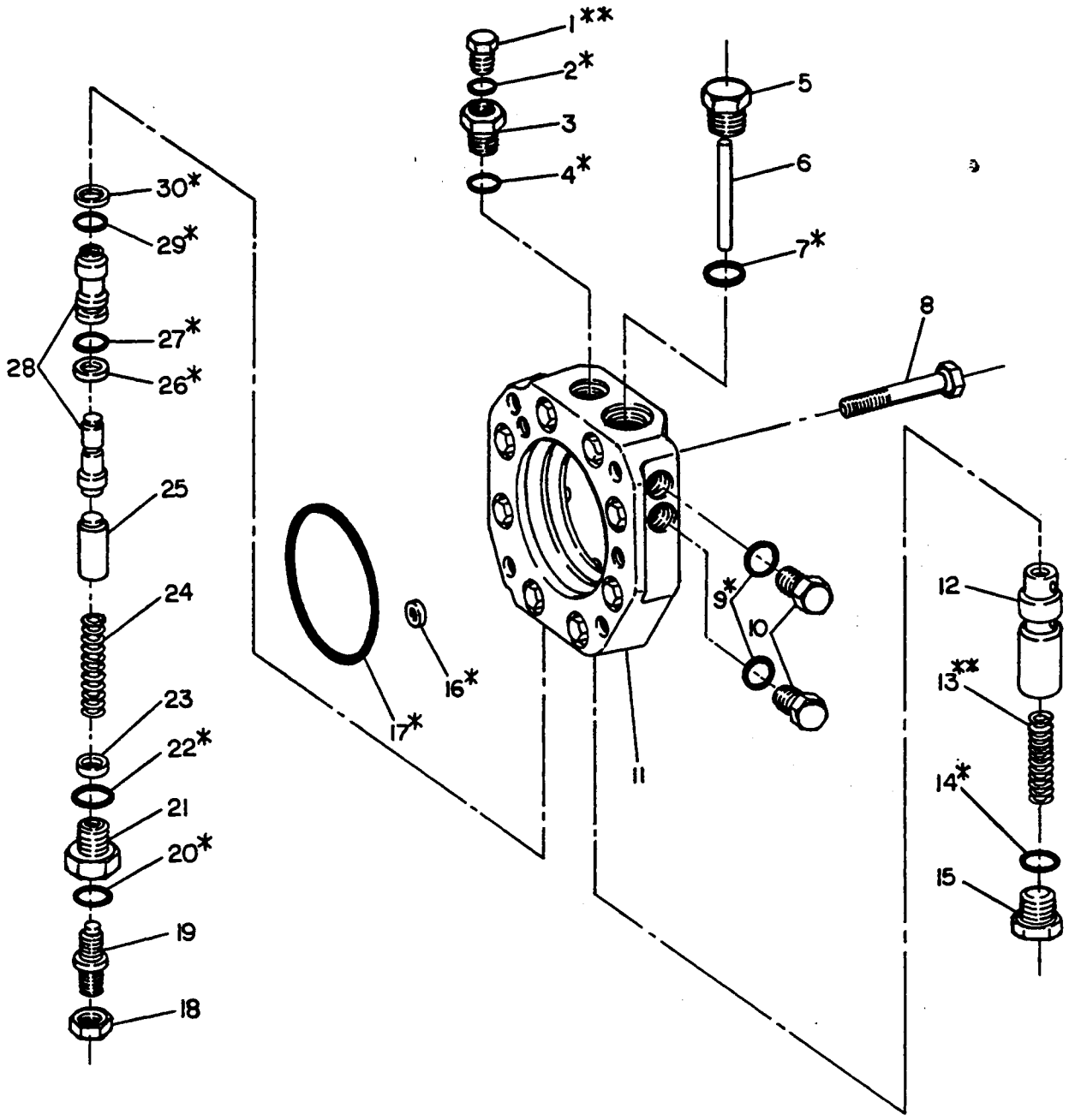
SHEET 1 OF 2

DESCRIPTION	PART NO.
HYDRAULIC PUMP	01-006600

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1**			DRAIN PLUG (NOT USED, HPC PORT)	
2*			"O" RING	1
3			PLUG	1
4*			"O" RING	1
5			DRAIN PLUG	1
6			PIN	1
7*			"O" RING	1
8			CAP SCREW	4
9*			"O" RING	2
10			DRAIN PLUG	2
11			HOUSING	1
12			CRANK CASE VALVE	1
13**			SPRING (NOT USED, REQUIRES REMOVAL)	
14*			"O" RING	1
15			DRAIN PLUG	1
16*			WASHER	1
17*			"O" RING	1
18			NUT	1
19			SET SCREW	1
20*	01-002614		"O" RING	1
21	01-002613		FITTING	1
22*			"O" RING	1
23			WASHER	1
24			SPRING	1
25			GUIDE	1
26*			BACK-UP- RING	1
27*			"O" RING	1
28			PRESSURE RELIEF VALVE (COMPENSATOR)	1
29*			"O" RING	1
30*			BACK-UP RING	1
*	01-006601		SEAL KIT	

DESCRIPTION	PART NO.
HYDRAULIC PUMP	01-006600



PUMP STROKE VALVE ASSEMBLY

NOTE:
*PUMP SEAL KIT P/N01-006601
**NOT USED, REQUIRES REMOVAL

0684/0983

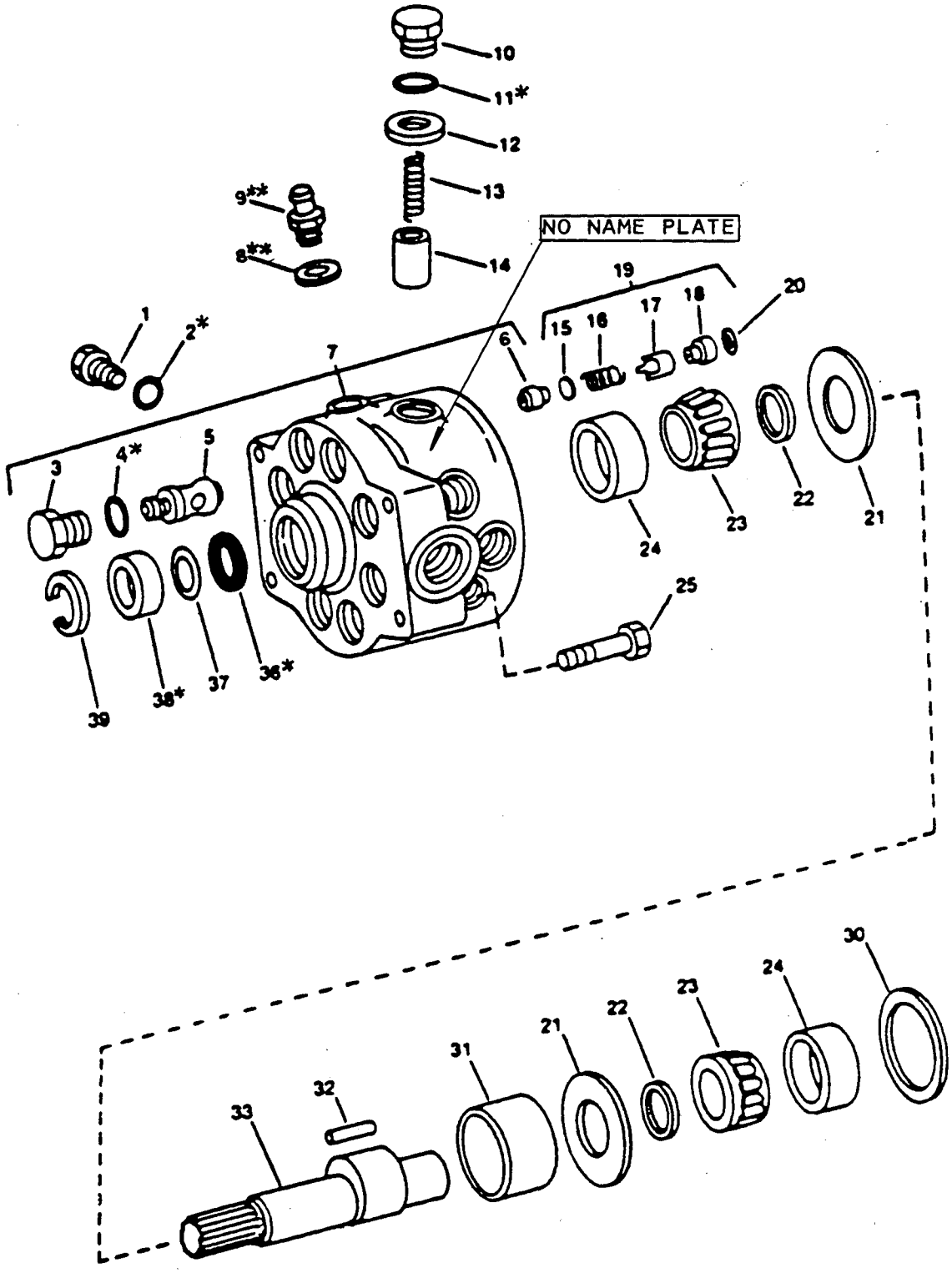
SHEET 2 OF 2

DESCRIPTION	PART NO.
HYDRAULIC PUMP	01-006600

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			DRAIN PLUG	1
2*			'O' RING	1
3			FITTING	8
4*			'O' RING	8
5			INLET VALVE	8
6			BUSHING, DISCHARGE VALVE	8
7			HOUSING	1
8**			WASHER	
9**			FITTING	
10	01-031405		FITTING, PUMP PISTON	8
11*			'O' RING	8
12			SHEILD	8
13	01-031404		PISTON SPRING (SET OF 8)	1
14	01-031402		PISTON	8
15			DISK, DISCHARGE VALVE	8
16			SPRING, DISCHARGE VALVE	8
17			GUIDE, DISCHARGE VALVE	8
18			STOP, DISCHARGE VALVE	8
19	01-034311		DISCHARGE VALVE ASSEMBLY	8
20	01-034301		WASHER, DISCHARGE VALVE	8
21	01-034310		THRUST WASHER	2
22			WASHER	2
23	01-002615		BEARING CONE	2
24	01-002617		BEARING CUP	2
25			CAP SCREW	4
30	01-002624		SHIM .006"	A.R.
30	01-002625		SHIM .010"	A.R.
31	01-034308		BEARING RACE	1
32	01-034309		NEEDLE ROLLER	36
33	01-034302		SHAFT	1
36*	01-002607		'O' RING	1
37			SHIM	1
38*	01-002605		SEAL	1
39			SNAP RING	1
*	01-031401		SEAL KIT	
**			NOT USED, REQUIRES REMOVAL	

DESCRIPTION	PART NO.
HYDRAULIC PUMP-EARLY MODEL	01-034300



NOTE:
*SEAL KIT P/N 01-031401
**NOT USED, REQUIRES REMOVAL

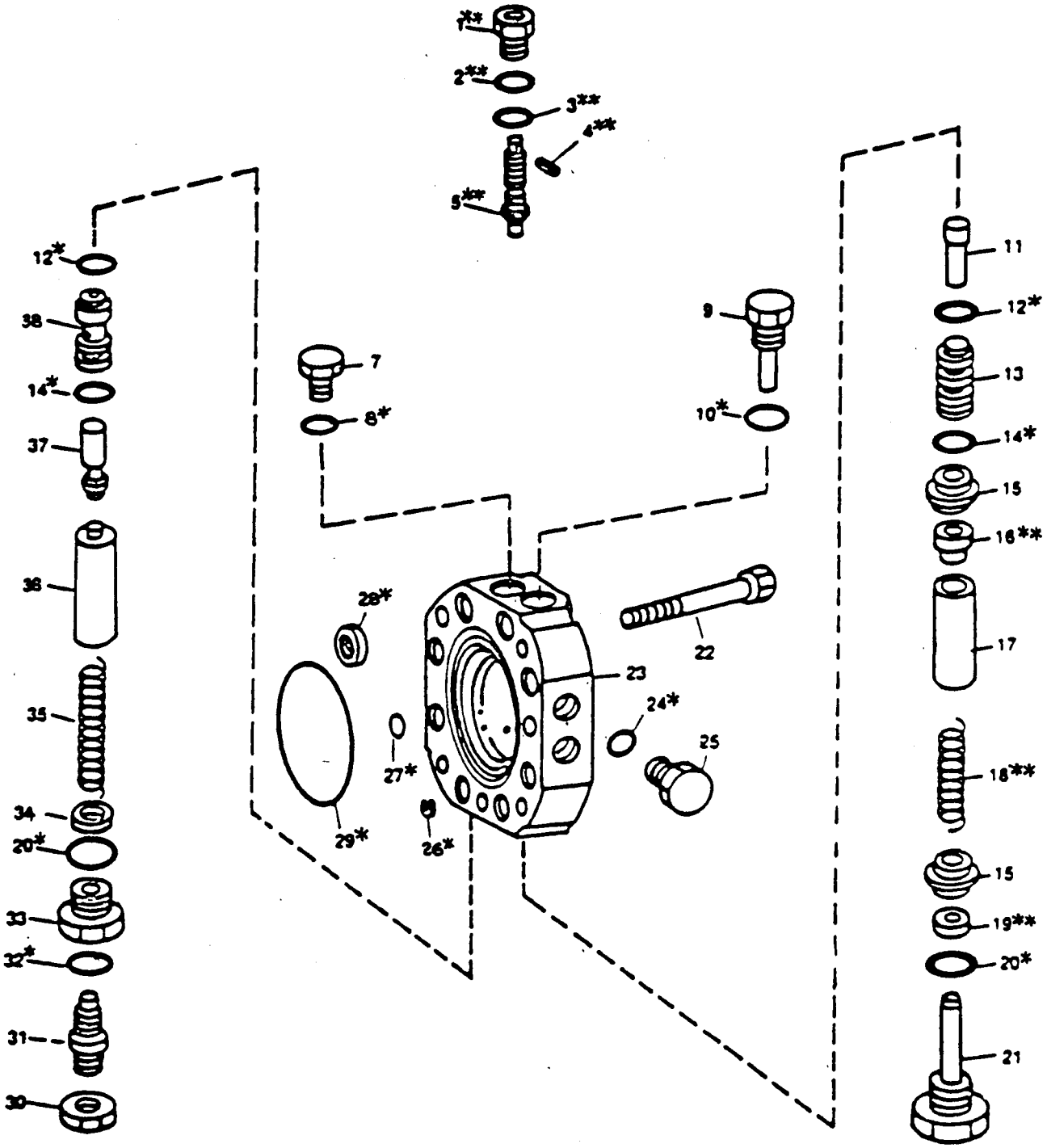
1084/0677

DESCRIPTION	PART NO.
HYDRAULIC PUMP-EARLY MODEL	01-034300

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1**			FITTING	
2**			'O' RING	
3**			'O' RING	
4**			SPRING PIN	
5**			SCREW	
6**			SCREW ASSEMBLY	
7			DRAIN PLUG	1
8			'O' RING	1
9			DRAIN PLUG	1
10			'O' RING	1
11	01-002604		CRANKCASE OUTLET VALVE	1
12			'O' RING	1
13	01-002609		SLEEVE, CRANKCASE OUTLET VALVE	1
14			'O' RING	1
15	01-002603		PACKING	2
16**			GUIDE	
17	01-002606		FILTER ELEMENT	1
18**			SPRING	
19**			SHIM	
20*			'O' RING	2
21	01-002610		DRAIN PLUG	1
22			CAP SCREW	4
23			HOUSING	1
24*			'O' RING	2
25			PLUG	2
26*			WASHER	1
27*			'O' RING	1
28*			WASHER	8
29*	01-034303		'O' RING	1
30			NUT	1
31	01-002602		SET SCREW, ADJUSTING	1
32*	01-002614		'O' RING	1
33	01-002613		FITTING, ADJUSTING SCREW	1
34			WASHER	1
35			SPRING	1
36			GUIDE	1
37			CONTROL VALVE	1
38	01-002620		SLEEVE, CONTROL VALVE	1
*	01-034307		SEAL KIT	
**			NOT USED, RQUIRES REMOVAL	

DESCRIPTION	PART NO.
HYDRAULIC PUMP-EARLY MODEL	01-034300



NOTE:
*SEAL KIT P/N 01-034307
**NOT USED, REQUIRES REMOVAL

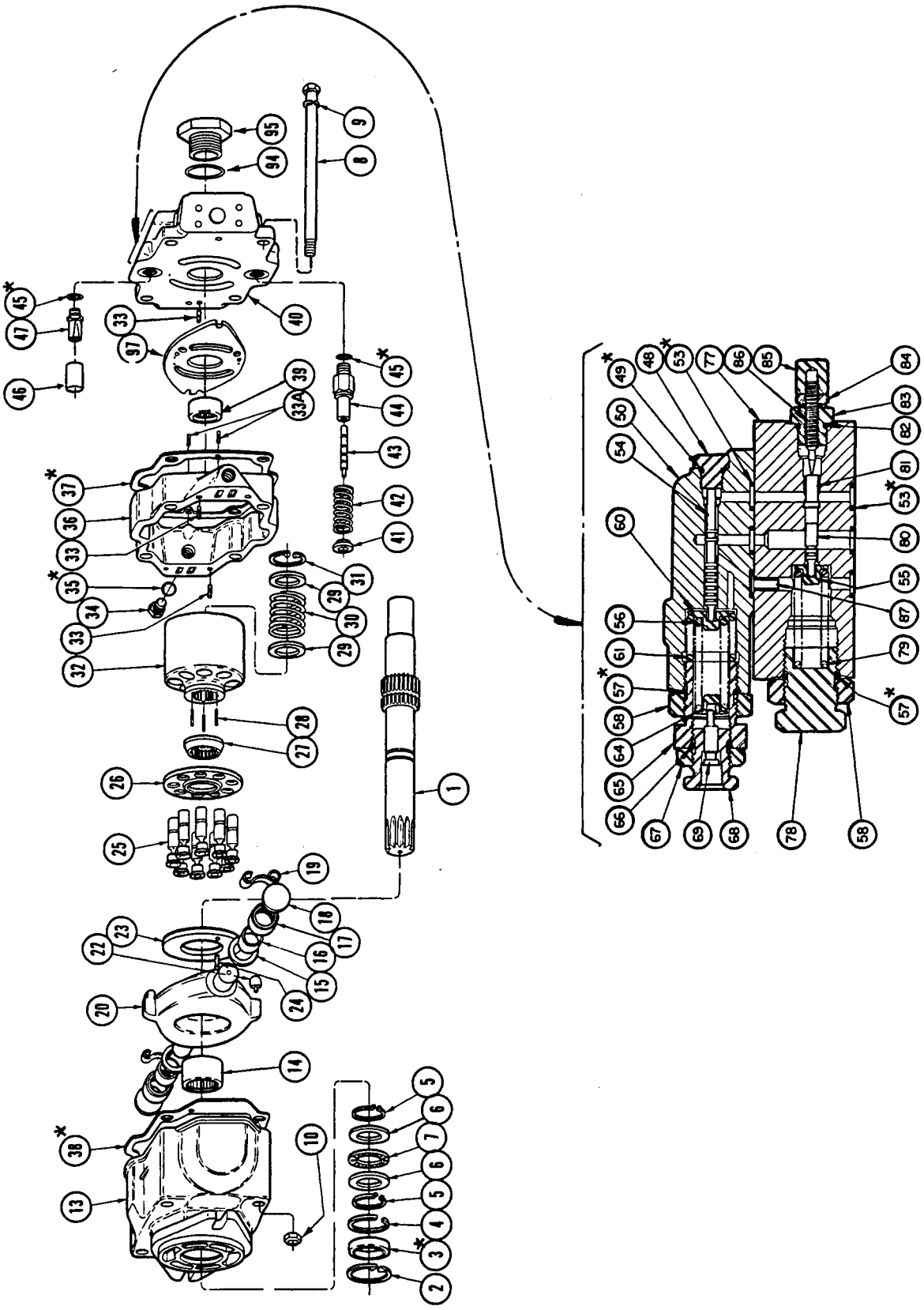
1084/0677

DESCRIPTION	PART NO.
HYDRAULIC PUMP-EARLY MODEL	01-034300

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			SHAFT, 'C' SPLINE	1
2			RETAINING RING	1
3*			SHAFT SEAL	1
4			SPACER	1
5			RETAINING RING	2
6			THRUST BEARING RACE	2
7			THRUST BEARING	1
8			HEX HEAD CAP SCREW	4
9			LOCKWASHER	4
10			HEX NUT	4
13			'C' ADAPTOR HOUSING	1
14			BEARING	1
15			CAM WASHER	2
16			INNER CAM RACE	2
17			TRUNNION BEARING ASSEMBLY	2
18			CAM THRUST BEARING	2
19			TRUNNION SPRING	2
20			CAM	1
22			CONTROL PIVOT	1
23			WEAR PLATE	1
24			ROLL PIN	1
25			PISTON ASSEMBLY	9
26			RETURN PLATE	1
27			RETURN PLATE PIVOT	1
28			PISTON RETURN PIN	3
29			BLOCK SPRING WASHER	2
30			BLOCK SPRING	1
31			RETAINING RING	1
32			CYLINDER BLOCK	1
33			ROLL PIN	3
33A			ROLL PIN	2
34			PLUG (CASE DRAIN)	1
35*			'O' RING	1
36			PUMP ASSEMBLY HOUSING	1
37*			COVER GASKET	1
38*			FLANGE GASKET	1
39			BEARING	1
40			REAR PORTED COVER	1
41			SPRING SEAT	1
42			SPRING	1
43			PISTON	1
44			SLEEVE	1
45*			'O' RING	2
46			CONTROL SLEEVE	1
47			CONTROL. POST PISTON	1
48			PLUG	1
49*			'O' RING	1
50			CONTROL HOUSING	1
53*			'O' RING	6
54			PLUNGER	1
55			SPRING RETAINER	1
56			SPRING	1
57*			'O' RING	2
58			HEX NUT	2
60			SPRING RETAINER	1
61			SPRING	1
64			SPRING SEAT	1
65			CAP	1
66			'O' RING	1
67			JAM NUT	1
68			CAP	1
69			SENSE PIN	1
77			CONTROL HOUSING	1
78			CAP	1
79			SPRING	1
80			PLUNGER	1
81			NEEDLE ORIFICE	1
82			'O' RING	1
83			CAP	1
84			JAM NUT	1
85			CAP	1
86			ADJUSTING SCREW	1
87			ORIFICE	1
*	01-015001		SEAL KIT	1

DESCRIPTION	PART NO.
HYDRAULIC PUMP	01-015000



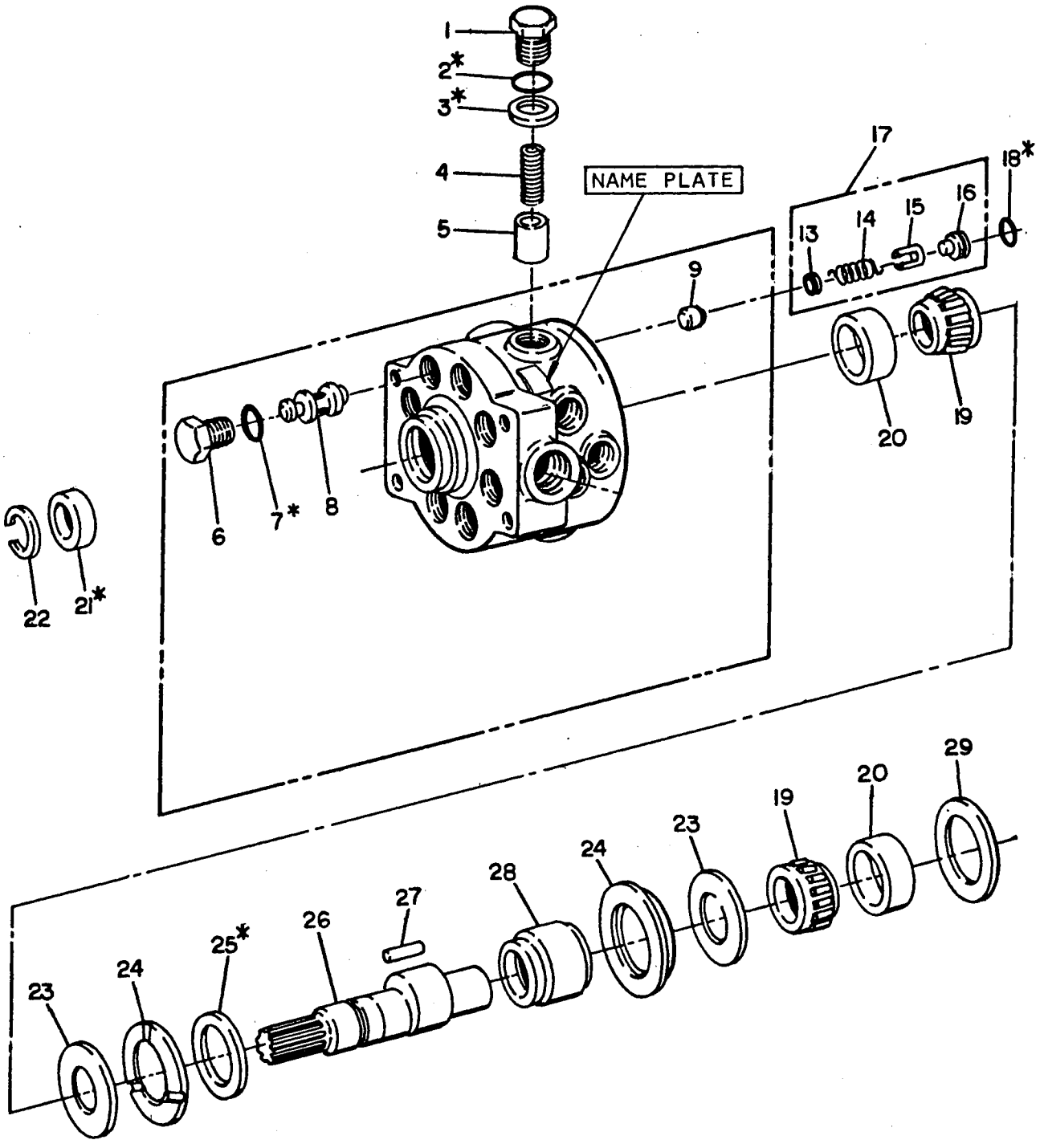
0485/0385

DESCRIPTION	PART NO.
HYDRAULIC PUMP	01-015000

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-031405		FITTING	8
2*			'O' RING	8
3*			SHIELD	8
4			SPRING	8
5	01-031402		PISTON	8
6			FITTING	8
7*			'O' RING	8
8			INLET VALVE	8
9			BUSHING	8
10				
11				
12			HOUSING	1
13			DISK	8
14			SPRING	8
15			GUIDE	8
16			STOP	8
17			DISCHARGE VALVE	8
18			WASHER	8
19	01-002615		BEARING CONE	2
20	01-002617		BEARING CUP	2
21	01-002605		SEAL	1
22			SNAP RING	1
23			WASHER	2
24			THRUST WASHER	2
25			RING	1
26			SHAFT	1
27			NEEDLE ROLLER	25
28			BEARING RACE	1
29	01-002624		SHIM (.006)	A.R.
29	01-002625		SHIM (.010)	A.R.
*			SEAL KIT	1

DESCRIPTION	PART NO.
HYDRAULIC PUMP	01-006900



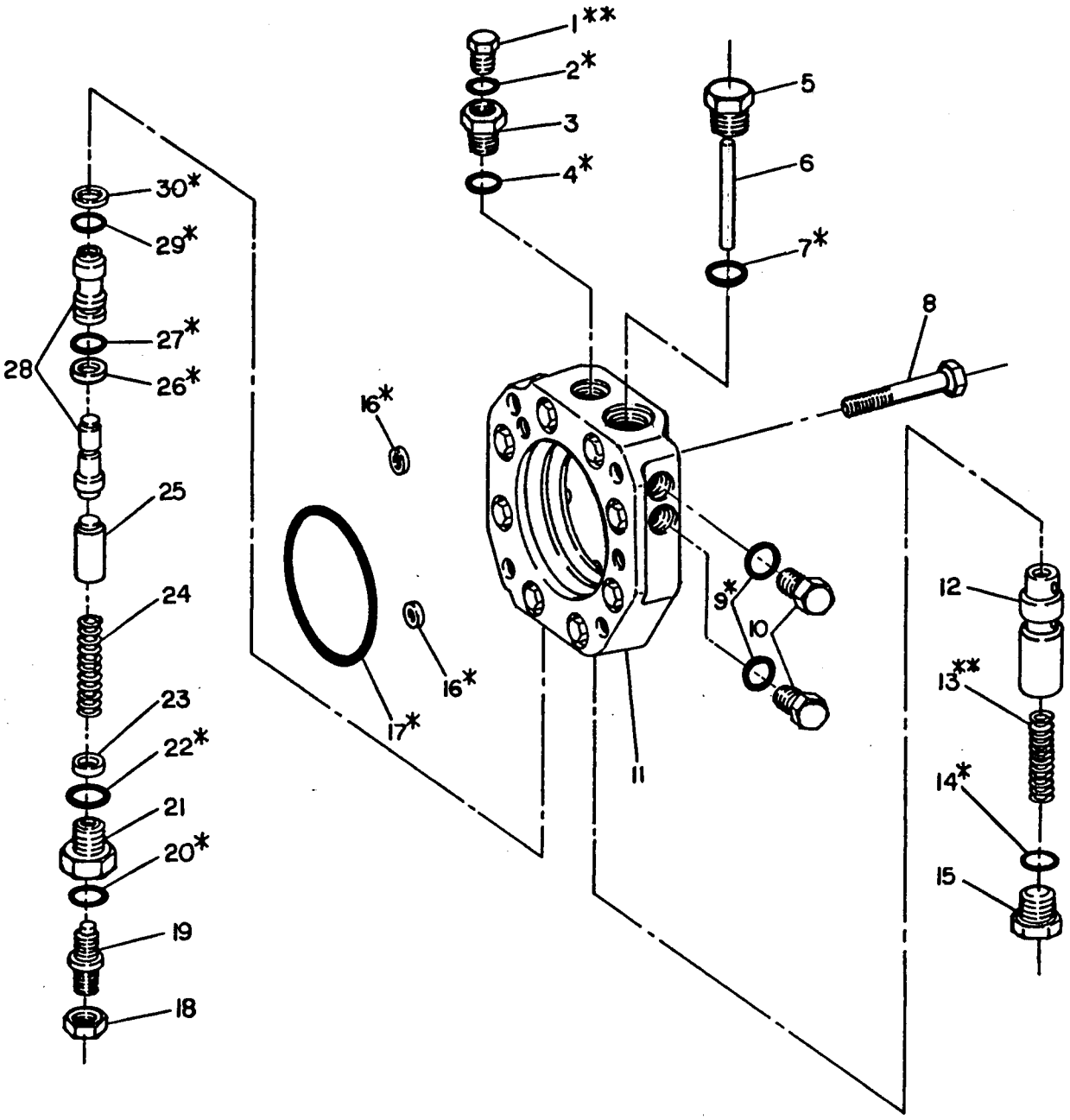
PUMP ASSEMBLY

DESCRIPTION	PART NO.
HYDRAULIC PUMP	01-006900

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			DRAIN PLUG (NOT USED, HPC PORT)	
2			'O' RING	1
3			PLUG	1
4			'O' RING	1
5			DRAIN PLUG	1
6			PIN	1
7			'O' RING	1
8			CAP SCREW	4
9			'O' RING	2
10			DRAIN PLUG	2
11			HOUSING	1
12			CRANK CASE VALVE	1
13			SPRING (NOT USED, REQUIRES REMOVAL)	
14			'O' RING	1
15			DRAIN PLUG	1
16			WASHER	2
17			'O' RING	1
18			NUT	1
19			SET SCREW	1
20	01-002614		'O' RING	1
21	01-002613		FITTING	1
22			'O' RING	1
23			WASHER	1
24			SPRING	1
25			GUIDE	1
26			BACK-UP RING	1
27			'O' RING	1
28			PRESSURE RELIEF VALVE (COMPENSATED)	1
29			'O' RING	1
30			BACK-UP RING	1
*			SEAL KIT	1

DESCRIPTION	PART NO.
HYDRAULIC PUMP	01-006900



PUMP STROKE VALVE ASSEMBLY

NOTE:

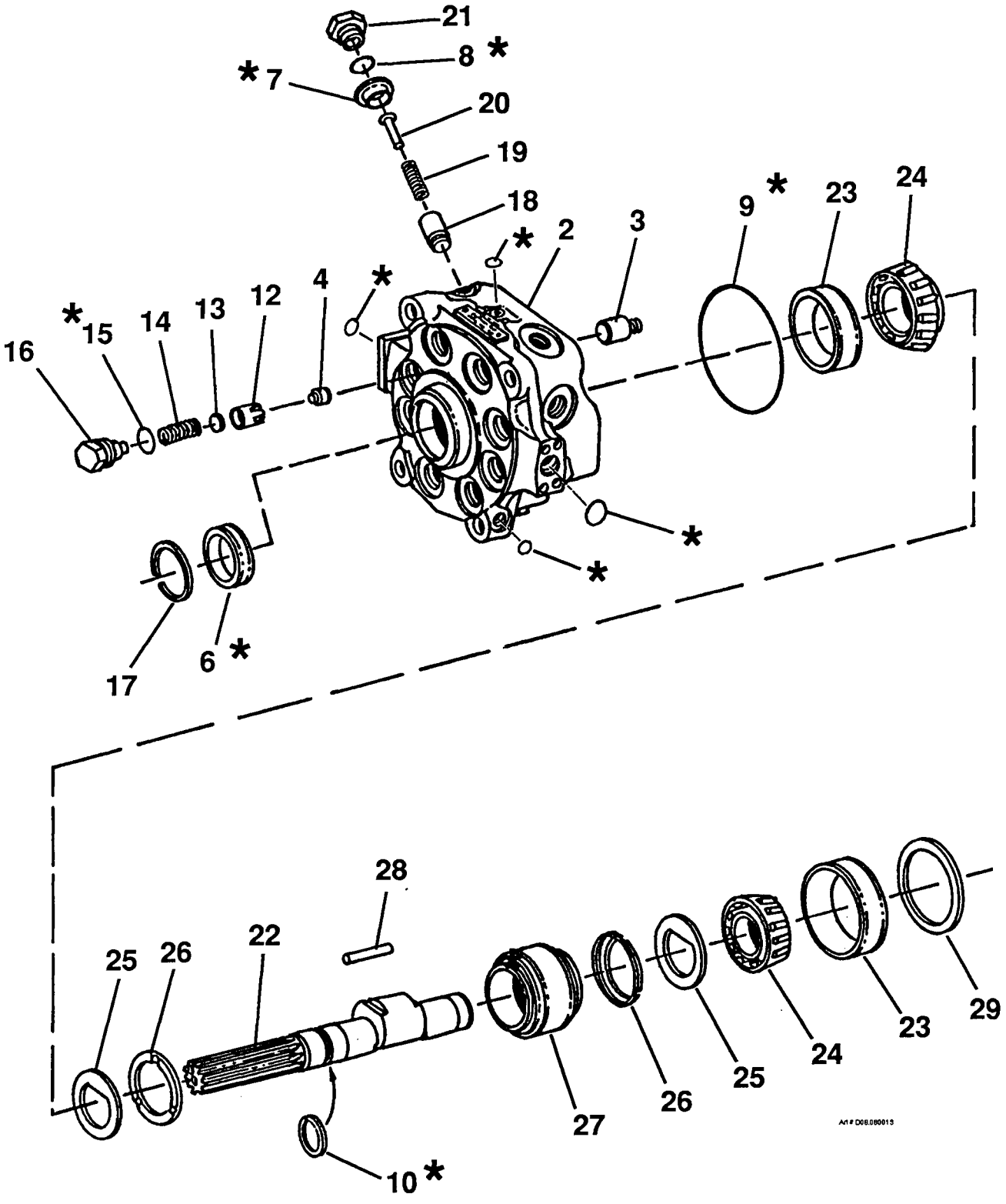
**NOT USED, REQUIRES REMOVAL

DESCRIPTION	PART NO.
HYDRAULIC PUMP	01-006900

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	01-018600		PUMP ASSEMBLY, HYDRAULIC (HPR 50) Pump is marked "2472 R115311" **Note:** Type 1 pump, with **non-unitized** control valve (see illustration, Plate 2 of 2). For replacement of complete unit, use 01-019500, shown on Plate D08.13.	1
1			HOUSING ASSEMBLY, PUMP	1
2			HOUSING, PUMP	1
3			VALVE, INLET	8
4			SEAT, DISCHARGE VALVE	8
5	01-018702		SEAL KIT (components indicated by astensks, page 1 and 2)	1
6	01-002605	*	SEAL, OIL	1
7		*	SHIELD (plastic)	8
8		*	"O"-RING	8
9	01-018704	*	"O"-RING, CENTER HUB	1
10	01-018705	*	RING, SEALING	1
11			VALVE, DISCHARGE	8
12			GUIDE, VALVE	1
13			DISC, DISCHARGE VALVE	1
14			SPRING	1
15		*	"O"-RING	1
16			PLUG, DISCHARGE VALVE	1
17	01-019503		RING, SNAP	1
18			PISTON	8
19			SPRING, PISTON	8
20			PIN, COOLING	8
21	01-019201		PLUG, PISTON	8
22	01-019506		SHAFT, PUMP	1
23	01-019504		CUP, PUMP SHAFT BEARING	2
24	01-019505		CONE AND ROLLER, PUMP SHAFT BEARING	2
25			SPACER	2
26	01-019510		WASHER, THRUST	2
27	01-019508		RACE, BEARING	1
28	01-019507		ROLLER, NEEDLE	25
29	01-019509		SHIM (0.15 mm)	A.R.
			SHIM (0.25 mm)	A.R.

TITLE	HYDRAULIC PUMP ASSEMBLY (PLATE 1 OF 2)				
PLATE NO.	D08.08	**SIMON AERIALS INC.**	REV. 09/27/91	PART NO.	01-018600



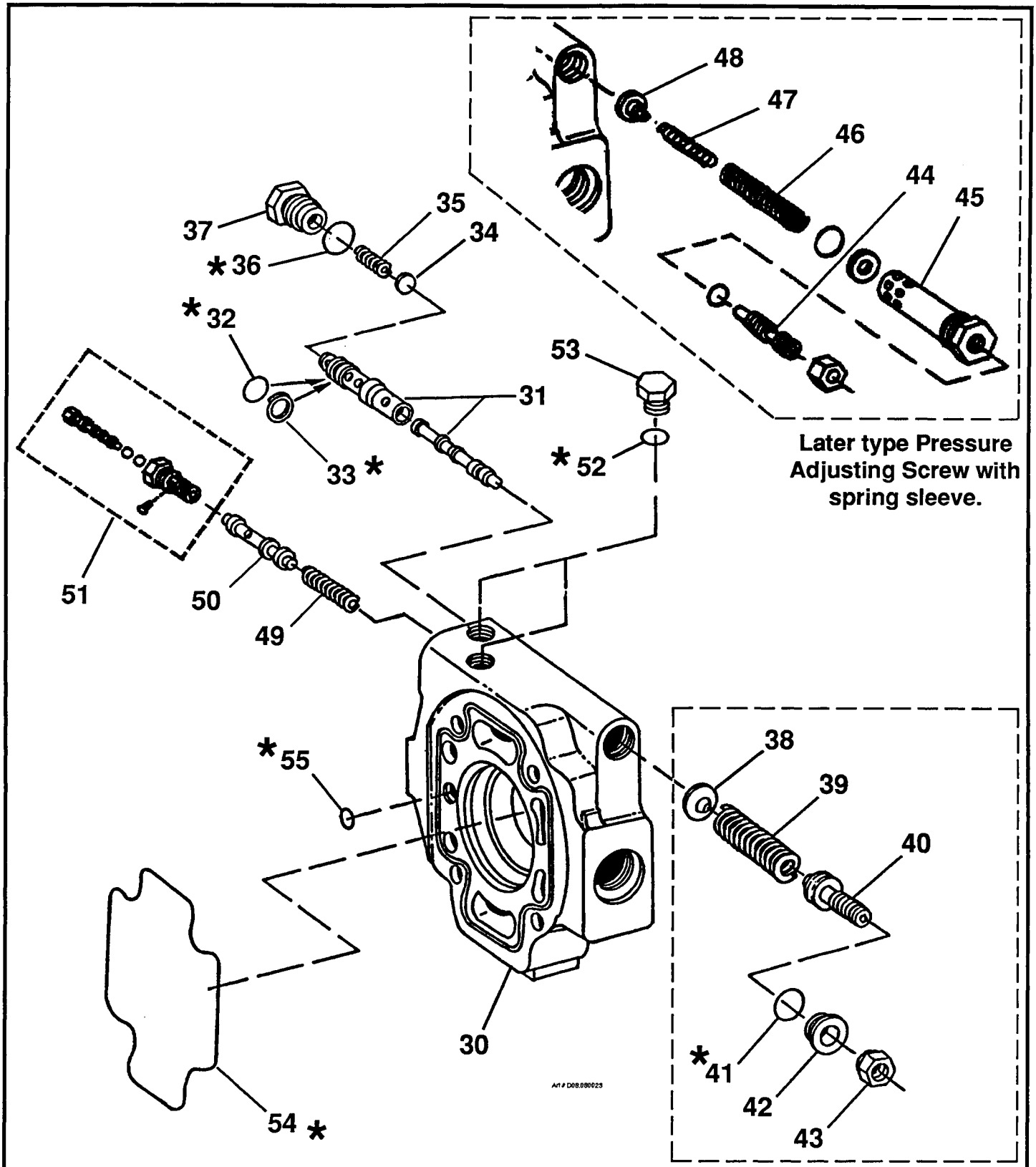
TITLE	HYDRAULIC PUMP ASSEMBLY (PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 09/27/91	PART NO. 01-018600	PLATE NO. D08.08	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
5	01-018702		SEAL KIT (components indicated by asterisks, page 1 and 2)	1
30			HOUSING, PUMP INLET	1
31	01-018706		VALVE, PRESSURE COMPENSATOR CONTROL	1
32		*	"O"-RING	1
33		*	RING, BACKUP	1
34			VALVE, DAMPENING (not used in this application)	1
			Note: Must be removed from replacement pump.	
35			SPRING, DAMPENING VALVE (not used in this application)	1
			Note: Must be removed from replacement pump.	
36		*	"O"-RING	1
37			PLUG, PRESSURE COMPENSATOR	1
38			GUIDE, SPRING	1
39			SPRING, PRESSURE COMPENSATOR	1
40			SCREW ASSEMBLY, PUMP PRESSURE ADJUSTING	
			Note: Older type shown (items 40 thru 43), without sleeve.	
			Pressure compensator should be updated to latest type,	
			which has spring sleeve (items 44 thru 48).	1
41		*	"O"-RING	1
42			PLUG	1
43			NUT	1
44			SCREW, PUMP PRESSURE ADJUSTING	1
45			BUSHING (with spring sleeve)	1
46			SPRING, PRESSURE COMPENSATOR (outer)	1
47			SPRING, PRESSURE COMPENSATOR (inner)	1
48			GUIDE, SPRING	1
49			SPRING, SHUTTLE VALVE	1
50			VALVE, SHUTTLE	1
51			DESTROKE, MANUAL	1
52		*	"O"-RING	1
53			PLUG	1
54		*	PACKING, INLET HOUSING TO PUMP HOUSING	1
55		*	PACKING, HIGH PRESSURE PASSAGE	1

TITLE HYDRAULIC PUMP (NON-UNITIZED CONTROL VALVE) (PLATE 2 OF 2)

PLATE NO. D08.08 | **SIMON AERIALS INC.** REV. 05/24/91 | PART NO. 01-018600



Later type Pressure Adjusting Screw with spring sleeve.

Earlier type Pressure Adjusting Screw. Replace with style having spring sleeve.

TITLE HYDRAULIC PUMP (NON-UNITIZED CONTROL VALVE) (PLATE 2 OF 2)

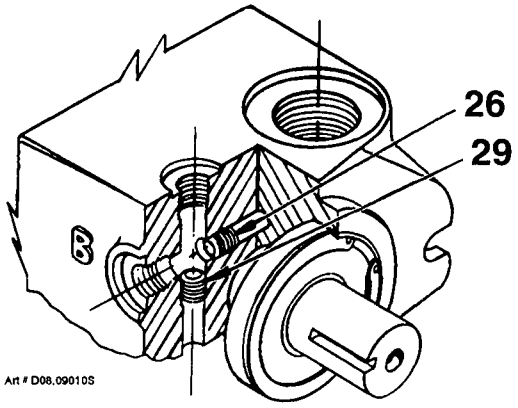
SIMON AERIALS INC.	REV. 09/27/91	PART NO. 01-018600	PLATE NO. D08.08

PARTS LIST

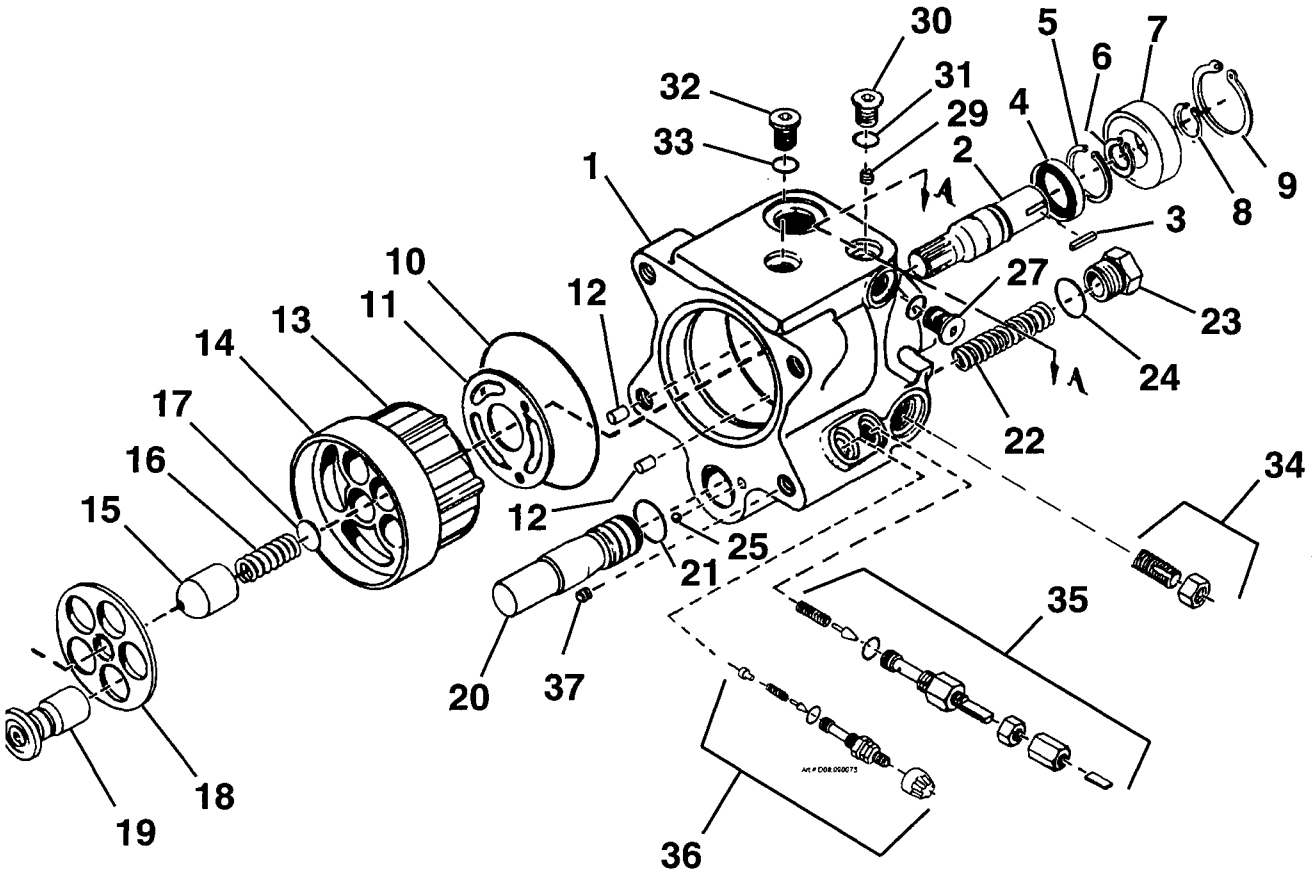
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			HOUSING, PUMP	1
2			SHAFT ASSEMBLY, INPUT (splined)	1
3			KEY, SHAFT	1
4	01-200202		SEAL, SHAFT	1
5			RING, RETAINING	1
6			RING, RETAINING	1
7	01-200203		BEARING, SHAFT	1
8			RING, RETAINING	1
9			RING, RETAINING	1
10			"O"-RING	1
11			PLATE, PORT	1
12			PIN, ROLL	2
13			BLOCK, CYLINDER (Barrel)	1
14			BUSHING, CYLINDER BLOCK	1
15			SEAT, BALL	1
16			SPRING	1
17			RETAINER, SPRING	1
18			RETAINER, SLIPPER	1
19			PISTON ASSEMBLY	7
20			PISTON, SERVO	1
21			"O"-RING, SERVO PISTON	1
22			SPRING, SERVO	1
23			PLUG, SERVO SPRING RETAINER	1
24			"O"-RING, PLUG	1
25			BALL	1
26			ORIFICE, SERVO CONTROL (.035")	1
27			PLUG, SERVO CONTROL	1
28			"O"-RING	1
29			ORIFICE, PRESSURE/ POWER COMP. CONTROL (.035")	1
30			PLUG, PRESSURE/ POWER COMPENSATOR CONTROL	1
31			"O"-RING	1
32			PLUG	1
33			"O"-RING	1
34			FIXED DIFFERENTIAL ASSEMBLY	1
35			PRESSURE COMPENSATOR ASSEMBLY	1
36			TORQUE CONTROL ASSEMBLY	1
37			PLUG	1

TITLE: HYDRAULIC PUMP, PAVC 65 (PLATE 1 OF 2)

PLATE NO. D08.09 | **SIMON AERIALS INC.** REV. 19 JUN., 1991 | PART NO. 01-200200



Section "A-A"

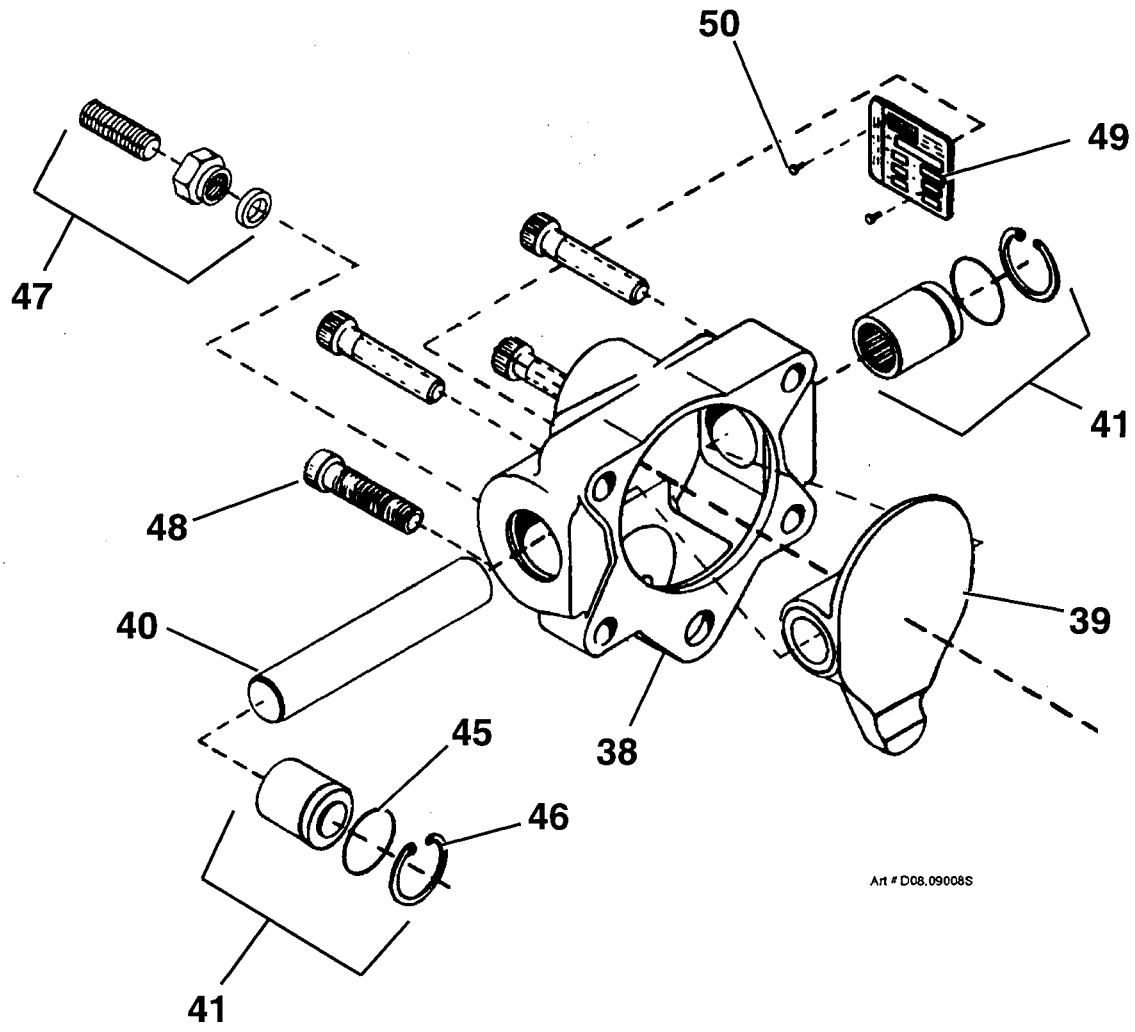


TITLE	HYDRAULIC PUMP, PAVC 65 (PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 19 JUN., 1991	PART NO. 01-200200	PLATE NO. D08.09	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
38			HOUSING, SWASH PLATE	1
39			SWASH PLATE	1
40			PIN, TRUNNION	1
41			CAP ASSEMBLY, TRUNNION	2
42			CAP, TRUNNION	1
43			BEARING, ROLLER	1
44			WASHER, THRUST	1
45			"O"-RING	1
46			RING, RETAINING	1
47			MAXIMUM VOLUME STOP ASSEMBLY	1
48			CAP SCREW	4
49			NAME PLATE	1
50			SCREW, DRIVE	2
51	01-200201		SEAL KIT (**Note:** Items in kit marked with an asterisk [*])	1

TITLE	HYDRAULIC PUMP, PAVC 65 (PLATE 2 OF 2)			
PLATE NO. D08.09	**SIMON AERIALS INC.**	REV. 19 JUN., 1991	**PART NO.**	01-200200



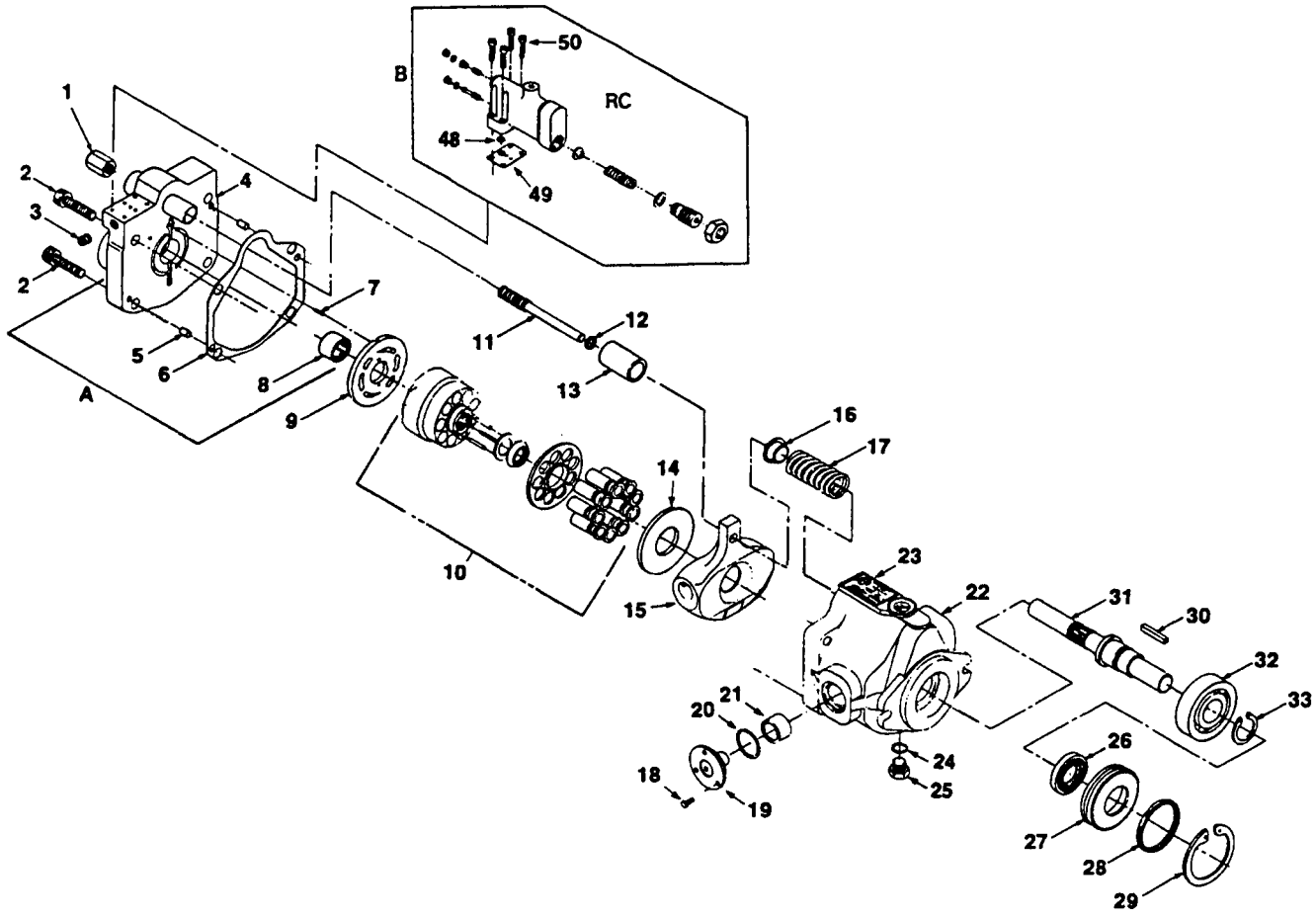
TITLE	HYDRAULIC PUMP, PAVC 65 (PLATE 2 OF 2)		
SIMON AERIALS INC. REV. 19 JUN., 1991	PART NO. 01-200200	PLATE NO. D08.09	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			NUT, LOCK	1
2			BOLT, SOCKET HEAD	4
3			PLUG	1
A			END CAP KIT	1
4			CAP, END	1
5			PIN, END CAP LOCATING	2
6			GASKET, END CAP	1
7			PIN, VALVE PLATE LOCATING	1
8			BEARING, REAR	1
9			PLATE, VALVE	1
10			CYLINDER BLOCK KIT	1
11			SCREW, FLOW ADJUSTMENT	1
12			O-RING	1
13			CYLINDER, CONTROL	1
14			PLATE, THRUST	1
15			SWASHPLATE	1
16			RETAINER, SPRING	1
17			SPRING	1
18			BOLT, SOCKET HEAD	6
19			TRUNNION	2
20			O-RING	2
21			BEARING, JOURNAL	2
22			HOUSING	1
23			PLATE, NAME	1
24			O-RING	1
25			PLUG	1
26			SEAL, SHAFT LIP	1
27			RETAINER, SEAL	1
28			O-RING	1
29			RING, RETAINING	1
30			KEY	1
31			SHAFT	1
32			BEARING, FRONT	1
33			RING, RETAINING	1
B			CONTROL VALVE KIT	1
48			O-RING	1
49			GASKET	1
50			BOLT, SOCKET HEAD	4

TITLE HYDRAULIC PUMP, SUNDSTRAND L15

PLATE NO. D08.10 | **SIMON AERIALS INC.** ORIGIN 08/29/90 | PART NO. 01-099600



TITLE	HYDRAULIC PUMP, SUNDSTRAND L15		
SIMON AERIALS INC. ORIGIN 08/29/90	PART NO. 01-099600	PLATE NO. D08.10	

PARTS LIST

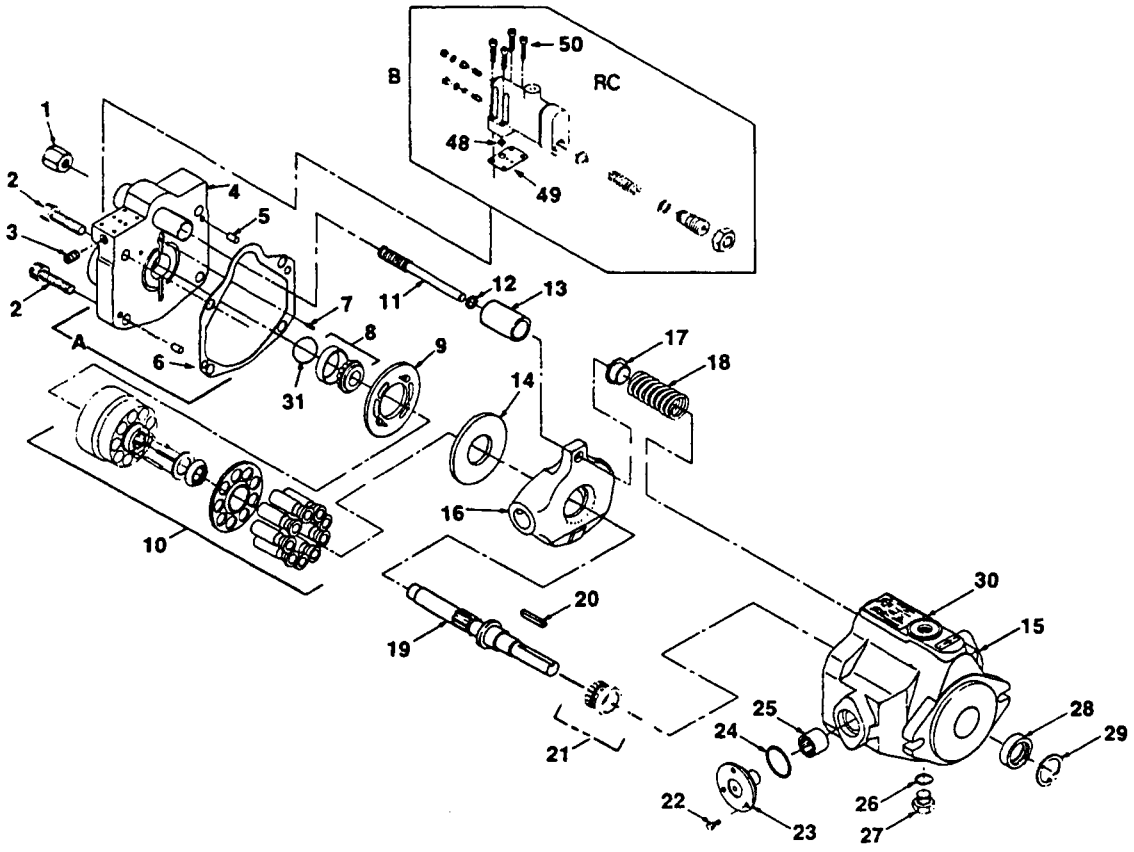
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			NUT, LOCK	1
2			BOLT, SOCKET HEAD	4
3			PLUG	1
A			END CAP KIT	1
4			CAP, END	1
5			PIN, END CAP LOCATING	2
6			GASKET, END CAP	1
7			PIN, VALVE PLATE LOCATING	1
8			REAR BEARING KIT	1
9			PLATE, VALVE	1
10			CYLINDER BLOCK KIT	1
11			SCREW, FLOW ADJUSTMENT	1
12			O-RING	1
13			CYLINDER, CONTROL	1
14			PLATE, THRUST	1
15			HOUSING	1
16			SWASHPLATE	1
17			RETAINER, SPRING	1
18			SPRING	1
19			SHAFT	1
20			KEY	1
21			FRONT BEARING KIT	1
22			CAPSCREW, HEX HEAD	6
23			TRUNNION	2
24			O-RING	2
25			BEARING, JOURNAL	2
26			O-RING	1
27			PLUG	1
28			SEAL, SHAFT LIP	1
29			RING, RETAINING	1
30			PLATE, NAME	1
31			SHIM	1
B			CONTROL VALVE KIT	1
48			O-RING	1
49			GASKET	1
50			BOLT, SOCKET HEAD	4

TITLE: HYDRAULIC PUMP, SUNDSTRAND L23

PLATE NO. D08.11

SIMON AERIALS INC. NEW 11/30/90

PART NO. 01-099700



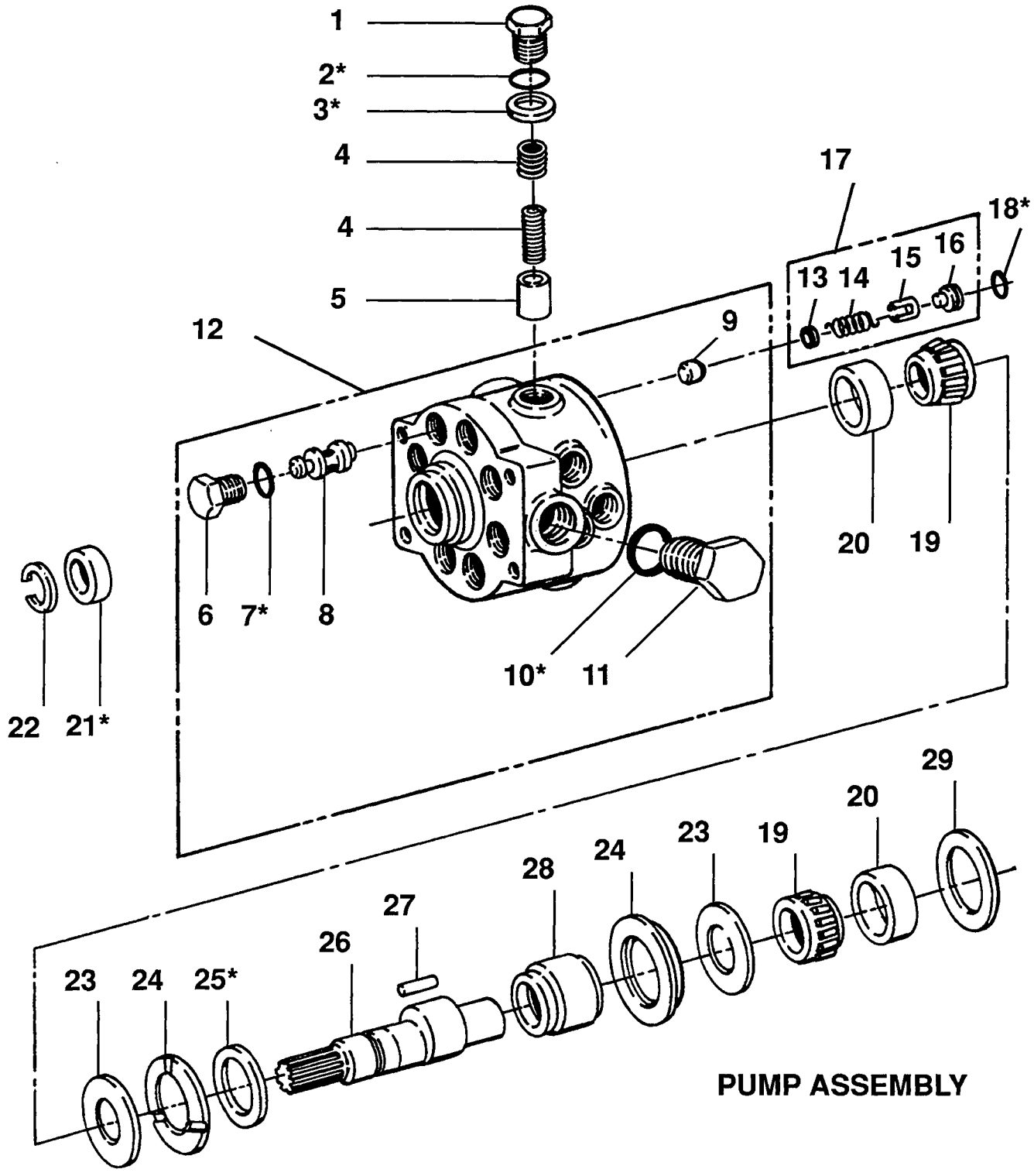
TITLE	HYDRAULIC PUMP, SUNDSTRAND L23		
SIMON AERIALS INC. NEW 11/30/90	PART NO. 01-099700	PLATE NO. D08.11	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			FITTING	8
2		*	"O"-RING	8
3		*	SHIELD	8
4	01-002630		SPRING SET	1
5	01-002621		PISTON	8
6			FITTING	8
7		*	"O"-RING	8
8			VALVE, INLET	8
9			BUSHING	8
10	01-002612	*	"O"-RING	1
11			FITTING	1
12			HOUSING	1
13			DISK	8
14			SPRING	8
15			GUIDE	8
16			STOP	8
17			VALVE, DISCHARGE	8
18		*	WASHER	8
19	01-002615		CONE, BEARING	2
20	01-002617		CUP, BEARING	2
21	01-002605	*	SEAL	1
22			RING, SNAP	1
23			WASHER	2
24			WASHER, THRUST	2
25		*	RING, SEALING	1
26			SHAFT	1
27			ROLLER, NEEDLE	25
28			RACE, BEARING	1
29	01-002624		SHIM (.006" thick)	A.R.
	01-002625		SHIM (.010" thick)	A.R.
30	01-002601		SEAL KIT (for complete pump, including stroke valve ass'y. on plate 2) **Note:** Items in seal kit identified by an asterisk **(*)**.	1

TITLE HYDRAULIC PUMP (PLATE 1 OF 2)

PLATE NO. D08.12 | **SIMON AERIALS INC.** NEW 11/01/90 | PART NO. 01-002600



PUMP ASSEMBLY

NOTE: ITEMS IN SEAL KIT IDENTIFIED BY AN ASTERISK (*).

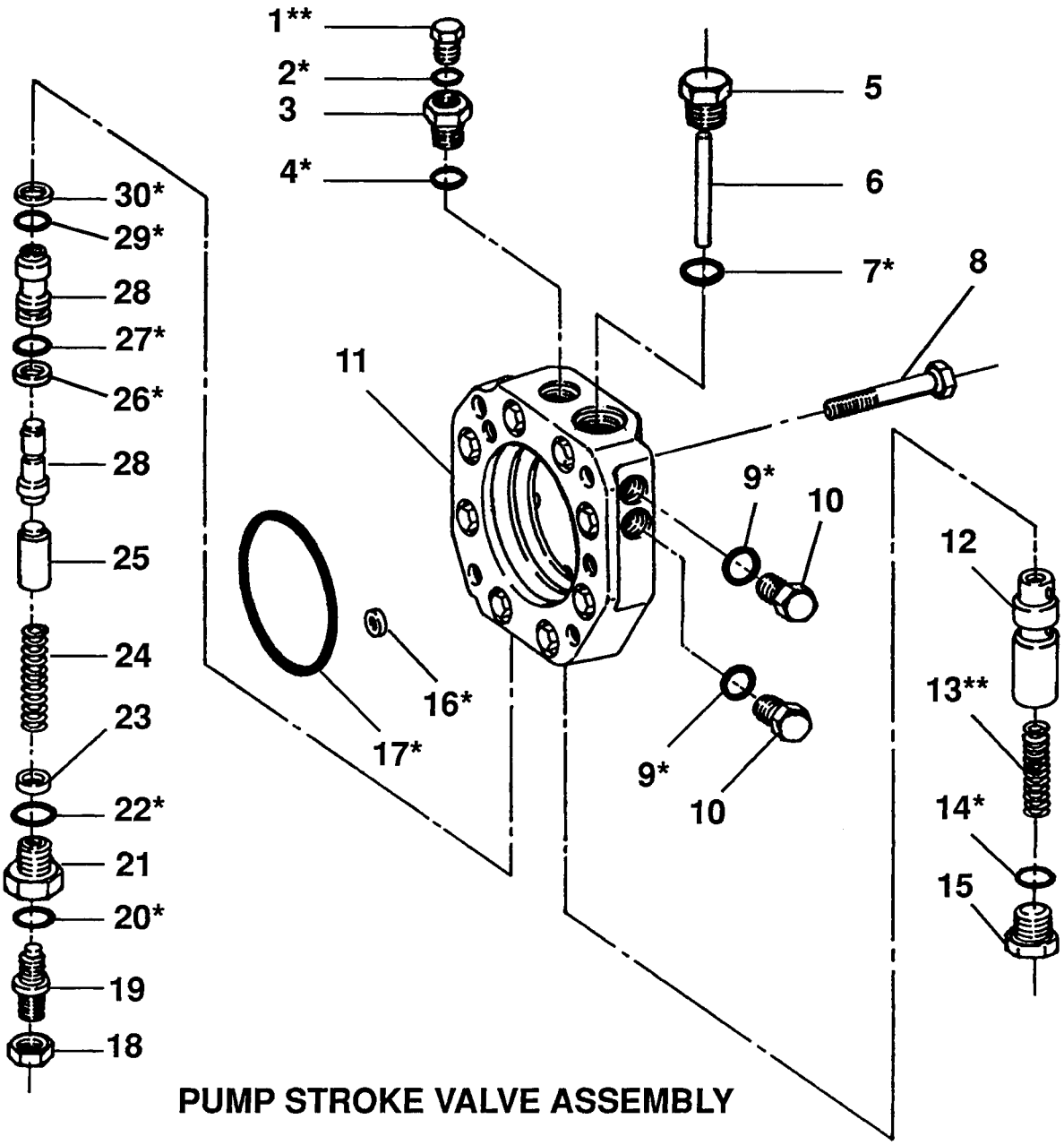
TITLE	HYDRAULIC PUMP (PLATE 1 OF 2)		
SIMON AERIALS INC. NEW 11/01/90	PART NO. 01-002600	PLATE NO. D08.12	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1		**	PLUG, DRAIN (Not used, HPC ports. Removal required)	
2		*	"O"-RING	1
3			PLUG	1
4		*	"O"-RING	1
5			PLUG, DRAIN	1
6			PIN	1
7		*	"O"-RING	1
8			CAP SCREW, HEX HEAD	4
9		*	"O"-RING	2
10			PLUG, DRAIN	2
11			HOUSING	1
12			VALVE, CRANK CASE	1
13		**	SPRING (Not used. Removal required)	
14		*	"O"-RING	1
15			PLUG, DRAIN	1
16		*	WASHER	1
17		*	"O"-RING	1
18			NUT	1
19			SCREW, SET	1
20	01-002614	*	"O"-RING	1
21	01-002613		FITTING	1
22		*	"O"-RING	1
23			WASHER	1
24			SPRING	1
25			GUIDE	1
26		*	RING, BACK UP	1
27		*	"O"-RING	1
28			VALVE, PRESSURE RELIEF (Compensator)	1
29		*	"O"-RING	1
30		*	RING, BACK UP	1
*	01-002601		SEAL KIT (for complete pump. Also see plate 1) **Note:** Items in seal kit identified by an asterisk (*).	1
**			**Note:** Not used. Removal required.	

TITLE HYDRAULIC PUMP (PLATE 2 OF 2, PUMP STROKE VALVE ASSEMBLY)

PLATE NO. D08.12 | **SIMON AERIALS INC.** NEW 11/01/90 | PART NO. 01-002600



PUMP STROKE VALVE ASSEMBLY

NOTE: ITEMS IN SEAL KIT IDENTIFIED BY AN ASTERISK (*).
ITEM WITH DOUBLE ASTERISK (**) NOT USED, REMOVAL REQUIRED.

TITLE HYDRAULIC PUMP (PLATE 2 OF 2, PUMP STROKE VALVE ASSEMBLY)			
SIMON AERIALS INC. NEW 11/01/90	PART NO. 01-002600	PLATE NO. D08.12	

PARTS LIST

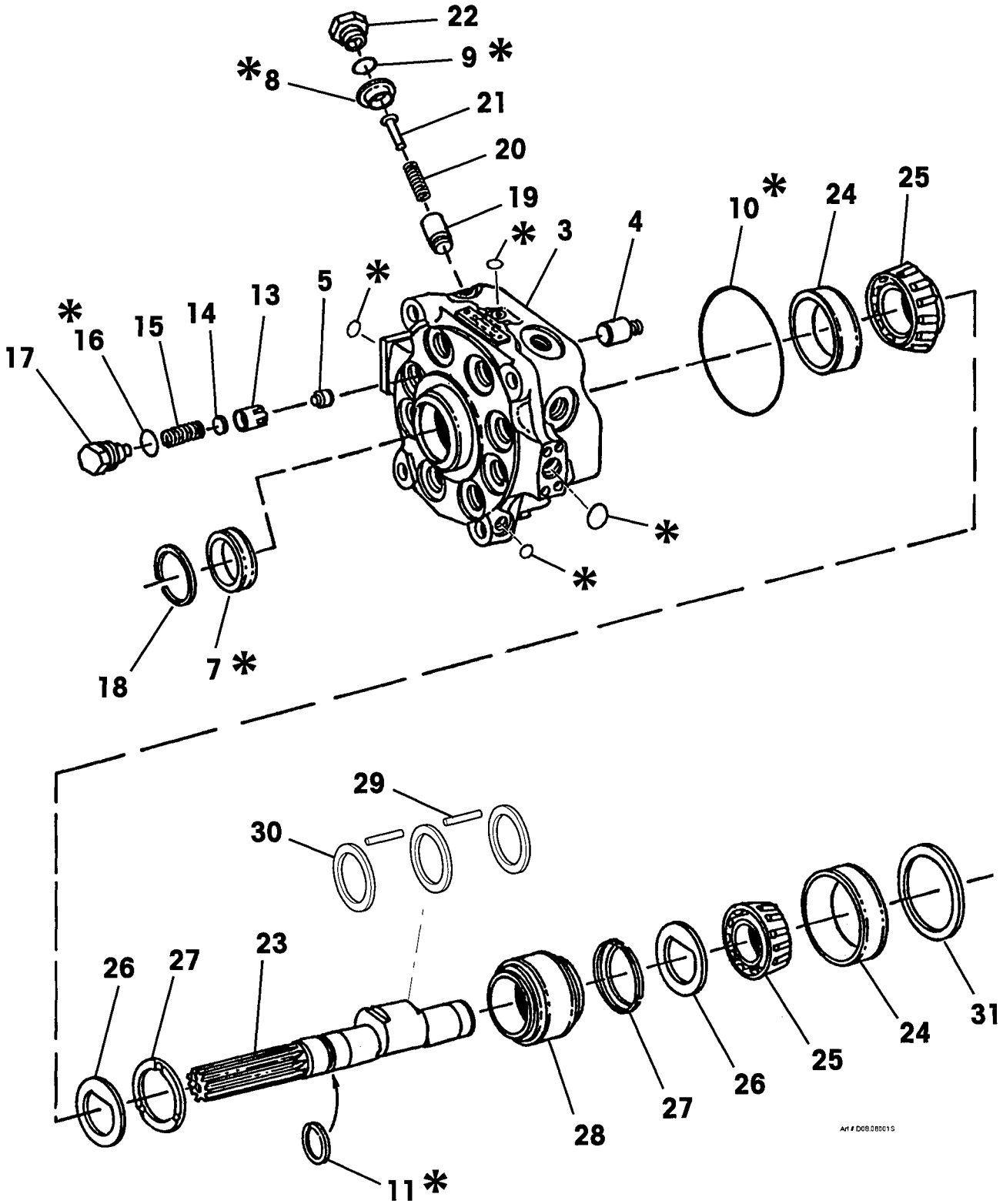
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			PUMP ASSEMBLY, HYDRAULIC	1
			Note: These are "Type 2" pumps, with unitized control valve design.	
	01-206900		HPR 40 (marked "*ROPV **312** XXXXXX*" and "24 **71** R11531")	
	01-019500		HPR 50 (marked "*ROPV **322** XXXXXX*" and "24 **72** R11531")	
	01-018700		HPR 65 (marked "*ROPV **332** XXXXXX*" and "24 **73** R11531")	
2			HOUSING ASSEMBLY, PUMP	1
3			HOUSING, PUMP	1
4	01-019519		VALVE, INLET	8
5	01-019518		SEAT, DISCHARGE VALVE	8
6	01-018707		SEAL KIT (components indicated by asterisks, page 1 and 2)	1
7	01-002605	*	SEAL, OIL	1
8		*	SHIELD (plastic)	8
9	01-019512	*	"O"-RING	8
10	01-018704	*	"O"-RING, CENTER HUB	1
11	01-018705	*	RING, SEALING	1
12			VALVE, DISCHARGE	8
13	01-019517		GUIDE, VALVE	1
14	01-018715		DISC, DISCHARGE VALVE	1
15	01-019516		SPRING	1
16	01-019515	*	"O"-RING	1
17			PLUG, DISCHARGE VALVE	1
18	01-019503		RING, SNAP	1
19	01-019514		PISTON	8
20	01-019513		SPRING, PISTON	8
21	01-019520		PIN, COOLING	8
22			PLUG, PISTON	8
23			SHAFT, PUMP	1
			for Model HPR 40	
	01-019506		for Model HPR 50	
	01-018708		for Model HPR 65	
24	01-019504		CUP, PUMP SHAFT BEARING	2
25	01-019505		CONE AND ROLLER, PUMP SHAFT BEARING	2
26	01-018710		SPACER	2
27	01-019510		WASHER, THRUST	2
28	01-019508		RACE, BEARING	1
29	01-019507		ROLLER, NEEDLE	50
30	01-019521		SPACER, NEEDLE ROLLER	3
31	01-019509		SHIM (0.15 mm)	A.R.
			SHIM (0.25 mm)	A.R.

TITLE

HYDRAULIC PUMP ASSEMBLY

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
D08.	13	01	A	08 OCT., 1996	

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172



Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	TITLE HYDRAULIC PUMP ASSEMBLY					
PART NO.	REV. A	DATED 08 OCT., 1996	SECTION D08.	PLATE NO. 13	PAGE 01	

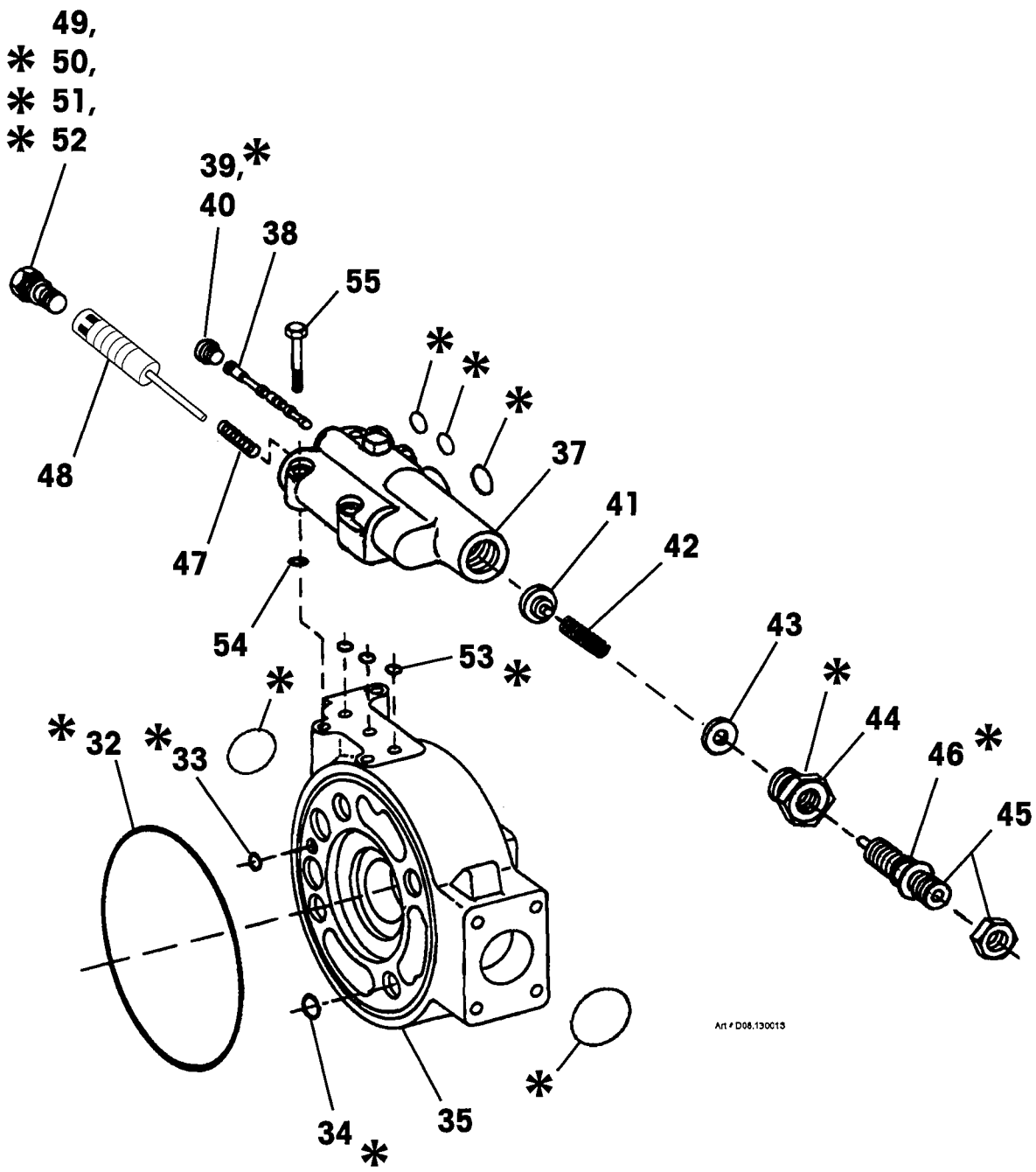
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
6	01-018707		SEAL KIT (components indicated by asterisks, page 1 and 2)	1
32	01-018711	*	PACKING, INLET HOUSING TO PUMP HOUSING	1
33		*	PACKING, HIGH PRESSURE PASSAGE	1
34		*	PACKING, BOLT PASSAGE	4
35			HOUSING, PUMP INLET	1
36	01-019502		VALVE ASSEMBLY, CONTROL	1
37			HOUSING, PRESSURE COMPENSATOR	1
38			VALVE, PRESSURE COMPENSATOR CONTROL	1
39		*	"O"-RING	1
40			PLUG, PRESSURE COMPENSATOR	1
41			GUIDE, SPRING	1
42			SPRING, PRESSURE COMPENSATOR	1
43		*	WASHER	1
44			PLUG, ADJUSTING	1
45			SCREW ASSEMBLY, PUMP PRESSURE ADJUSTING	1
46		*	"O"-RING	1
47			SPRING, CRANKCASE RELIEF VALVE	1
48			VALVE, EXTERNAL CONTROL	1
49			PLUG, DESTROKE	1
50		*	"O"-RING	1
51		*	"O"-RING	1
52		*	PLUG	1
53		*	PACKING, PRESSURE	3
54		*	SHIM, PRESSURE COMPENSATOR HOUSING	A.R.
55			CAP SCREW, HEX HEAD	3

TITLE: HYDRAULIC PUMP ASSEMBLY (UNITIZED CONTROL VALVE)

SECTION D08. | PLATE NO. 13 | PAGE 02 | REV. A | DATED 08 OCT., 1996 | PART NO.

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172



Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	TITLE HYDRAULIC PUMP ASSEMBLY (UNITIZED CONTROL VALVE)					
	PART NO.	REV. A	DATED 08 OCT., 1996	SECTION D08.	PLATE NO. 13	PAGE 02

PARTS LIST

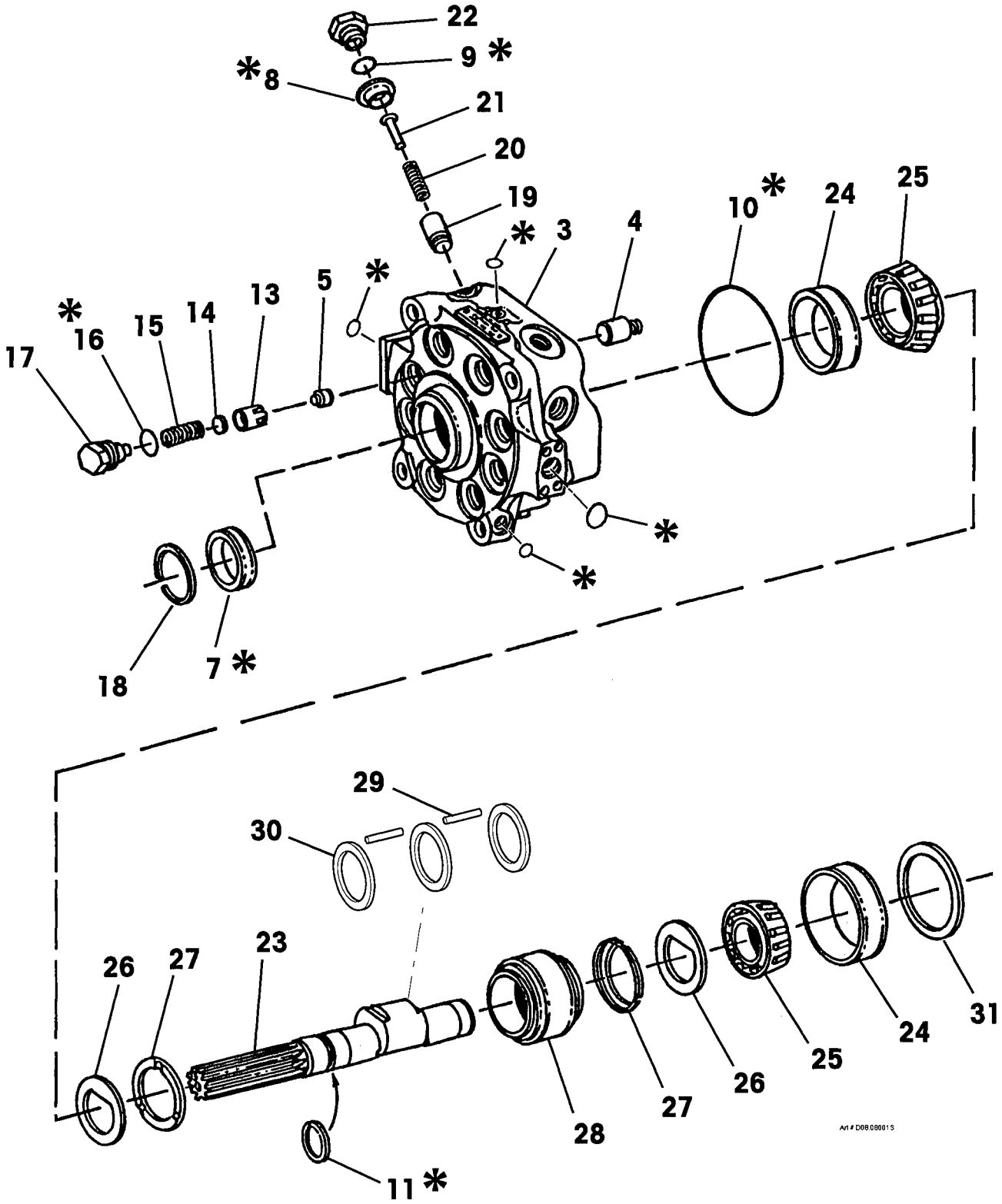
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items **are not** included with the Hydraulic Pump:	
			Suction Fittings:	
56	06-214400		FLANGE, SUCTION FITTING (2" SAE flange) (32 CFHC) (includes two halves and mounting hardware)	1
57			FITTING, SUCTION	1
	06-216100		90°, 2" stem to 2" hose (32 C4-32 FL90)	
	06-196900		90°, 2" SAE flange to 2" hose (23867-32-32 FC)	
			(**Obsolete**. Use 06-216100 and 06-214400.)	
	06-214300		90°, 2" stem to 1-1/2" hose (24-32 FL90)	
	06-195700		90°, 2" SAE flange to 1-1/2" hose (23867-24-32 FC) (**Obsolete**. Use 06-214300 and 06-214400.)	
	06-216200		45°, 2" stem to 1-1/2" hose (24-32 FL45)	
	06-195600		45°, 2" SAE flange to 1-1/2" hose (23868-24-32 FC) (**Obsolete**. Use 06-216200 and 06-214400.)	
			Pressure Fittings:	
58	06-213800		FLANGE KIT, PRESSURE FITTING (16 CFHS-87989) (includes two halves and mounting hardware)	1
59			ADAPTER, STEM	1
	06-213900		(16 FL5K-12MJ90)	
	06-215700		(16 FL5K-16MJ90)	
60	06-202100		FITTING, COMPANION FLANGE (L1-16-16S-30)	
			(**Obsolete**. Use 06-213800 and 06-213900.)	
	06-195800		FITTING KIT, FLANGE (SAE #16, 4 bolt) (5151 HK-16) (**Obsolete**.)	
61	06-215800		45° ELBOW, "O"-RING TO 37° (10 V5OX-S)	1

TITLE

HYDRAULIC PUMP ASSEMBLY

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
D08.	13	03	A	08 OCT., 1996	

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172



Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	TITLE HYDRAULIC PUMP ASSEMBLY					
PART NO.	REV. A	DATED 08 OCT., 1996	SECTION D08.	PLATE NO. 13	PAGE 03	

PARTS LIST

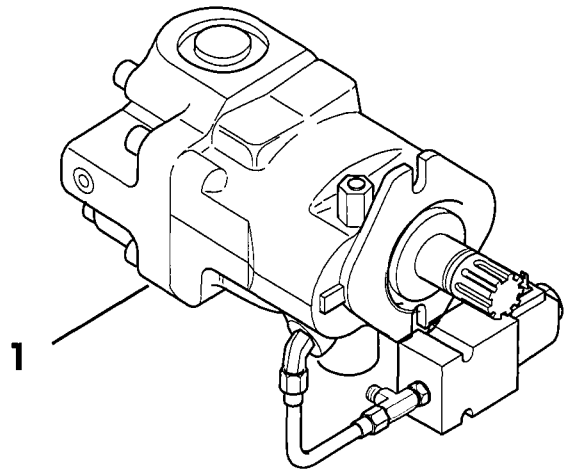
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			PUMP ASSEMBLY, HYDRAULIC	1
	01-236900		50 c.c./ rev. output (Nameplate is marked "PAVC 65 X **3224**")	
	01-237800		65 c.c./ rev. output (Nameplate is marked "PAVC 65 X **3232**")	
	01-239800		65 c.c./ rev. output , 3500 psi capacity (Nameplate is marked "PAVC 65 X **3266**")	

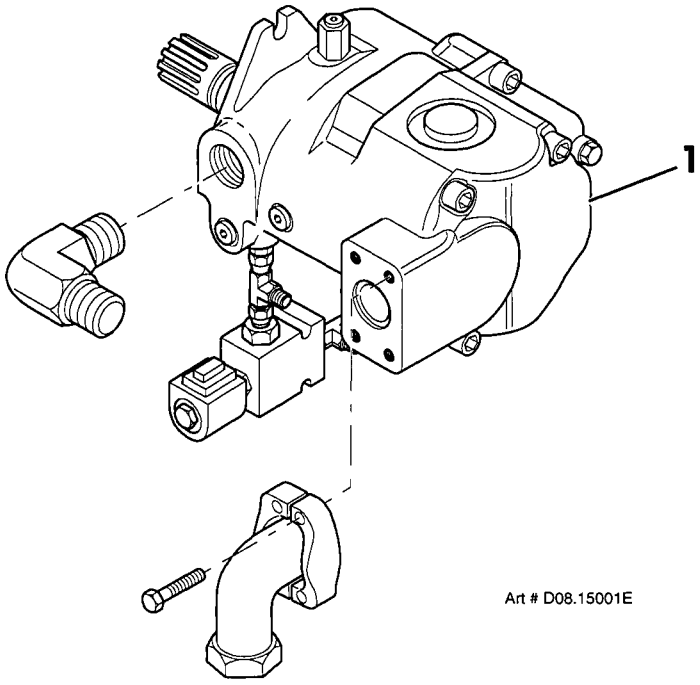
TITLE

HYDRAULIC PUMP ASSEMBLY

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
D08.	15	01	-	24 JAN., 1996	

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Art # D08.15001E

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TITLE

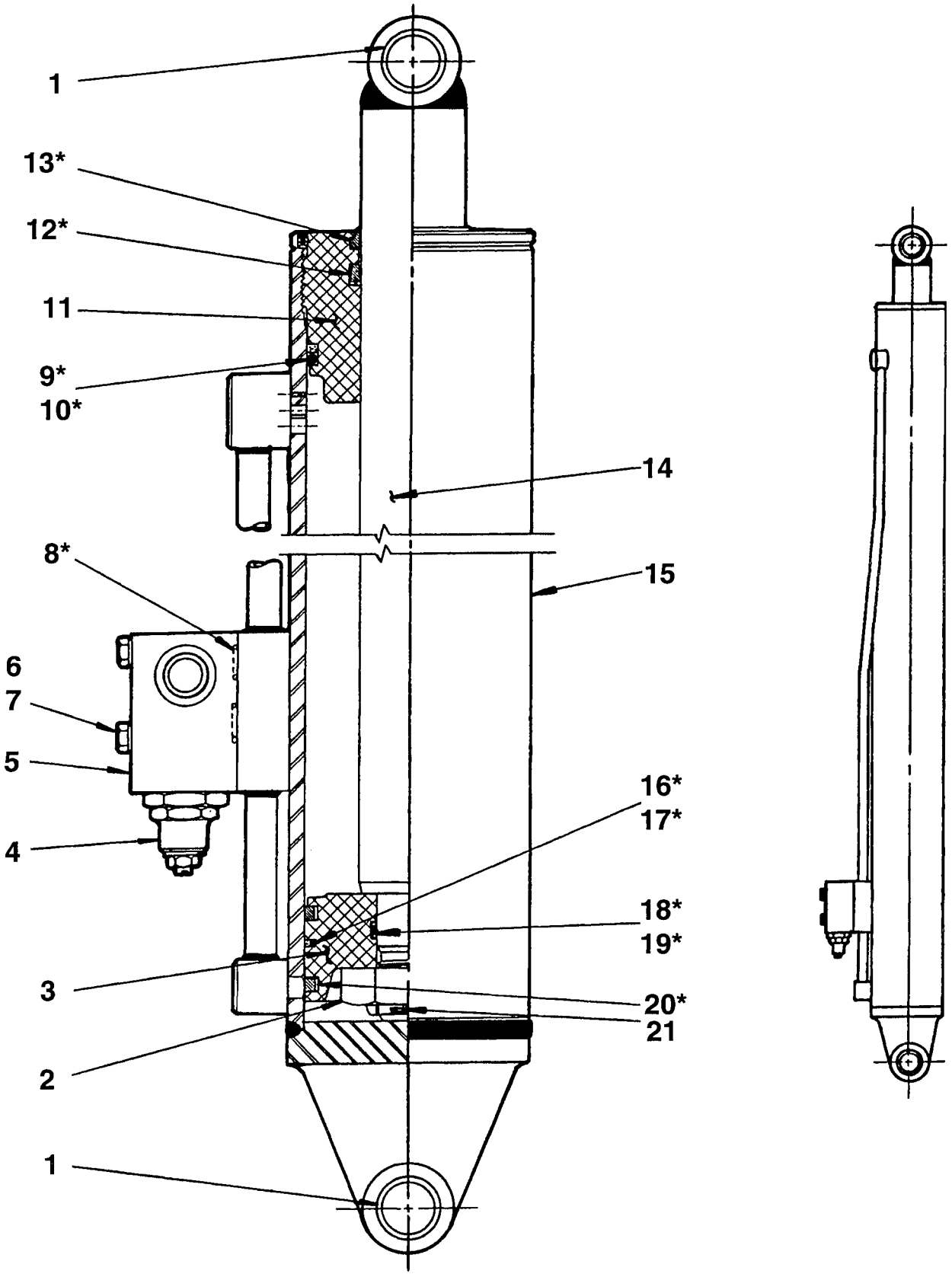
HYDRAULIC PUMP ASSEMBLY

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
	-	24 JAN., 1996	D08.	15	01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			BUSHING	4
2			NUT, PISTON	1
3			PISTON	1
4	01-222000		VALVE, COUNTERBALANCE (Holding valve) 10:1 (Factory set at 4900 PSI [338 Bar] [344.5 Kg/ cm^2]) (For units built after approximately 10 December 1992. Supercedes 04-021402 as replacement on earlier units.)	1
	04-021402		25:1 Ratio (Originally supplied on units built through about 10 December 1992. Has been superceded by 01-222000.)	
5	04-009802		VALVE BLOCK ASSEMBLY	1
6			CAPSCREW, HEX HEAD	4
7			WASHER, LOCK	4
8*			O-RING	2
9*			O-RING	1
10*			RING, BACK-UP	1
11	04-008801		GLAND, HEAD	1
12*			SEAL, ROD	1
13*			WIPER	1
14			ROD	1
15			CASE	1
16*			SEAL, PISTON	1
17			O-RING	1
18*			O-RING	1
19*			RING, BACK-UP	1
20*			RING, PISTON	2
21			KEY, COTTER	1
*	04-001801		SEAL KIT	1

TITLE	LIFT CYLINDER			
PLATE NO.	D09.14	**SIMON AERIALS INC.**	REV. 06 JUN., 1995	PART NO. 04-008800

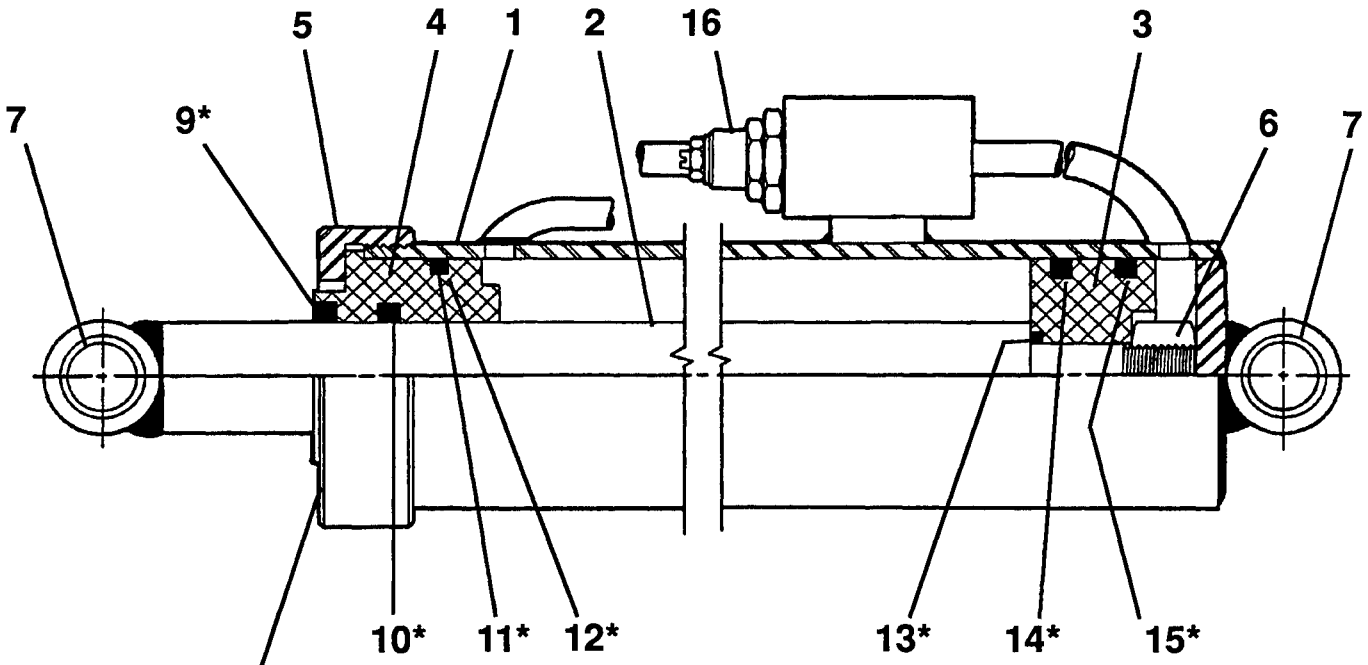


TITLE	LIFT CYLINDER		
SIMON AERIALS INC. REV. 06 JUN., 1995	PART NO. 04-008800	PLATE NO. D09.14	

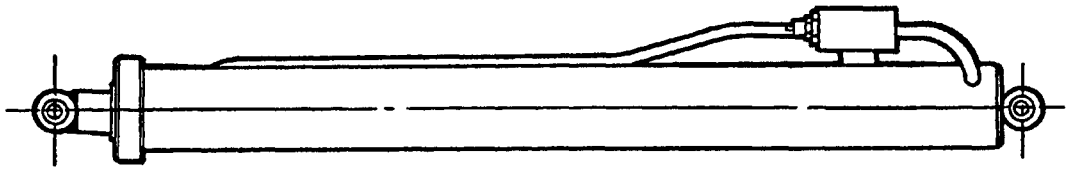
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Identifying features of cylinder 04-005200: 1. No set screw on head gland.	
1			CASE, CYLINDER	1
2	04-005202		ROD, CYLINDER	1
3			PISTON	1
4			GLAND, HEAD	1
5			NUT, HEAD GLAND RETAINING	1
6			NUT, PISTON ROD (2"-12)	1
7	04-005203		BUSHING	4
8	04-035201		SEAL KIT (not for use with water-glycol hydraulic fluid) **Note:** Items in kit identified by asterisk (*).	1
9			WIPER, ROD	1
10			SEAL, ROD	1
11			"O"-RING	1
12			WASHER, BACKUP	1
13			"O"-RING	1
14			SEAL, PISTON	1
15			SEAL, PISTON	1
			The following items **are not** part of the cylinder assembly:	
16	04-021402		VALVE, HOLDING	2

TITLE	LIFT CYLINDER, 66.5" (1.69 M) STROKE			
PLATE NO.	D09.15	**SIMON AERIALS INC.**	REV. 05/10/91	PART NO. 04-005200



Note: Head gland with no set screw.



TITLE	LIFT CYLINDER, 66.5" (1.69 M) STROKE		
SIMON AERIALS INC. REV. 05/10/91	PART NO. 04-005200	PLATE NO. D09.15	

PARTS LIST

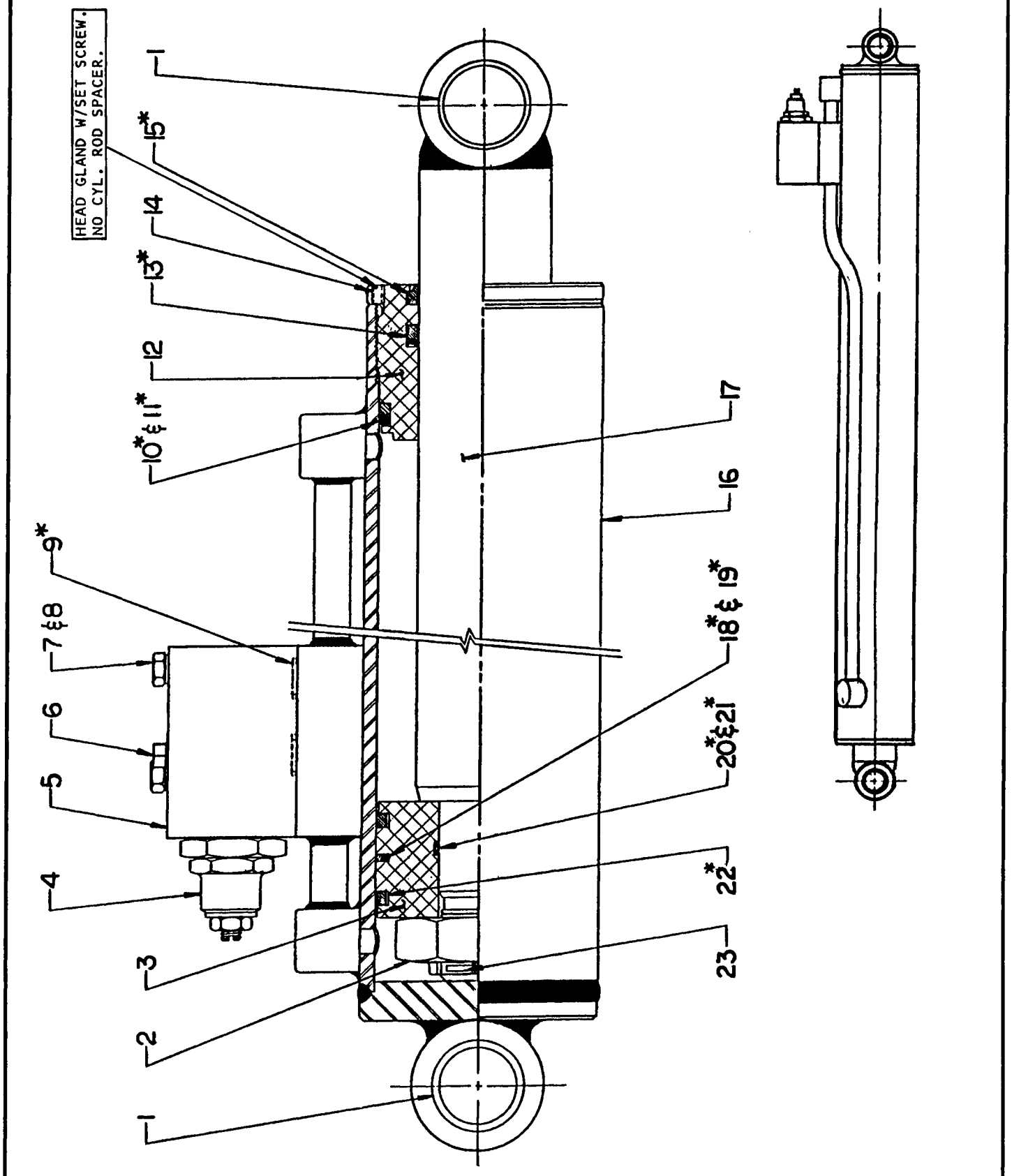
ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
1			BUSHING	4
2			NUT, PISTON	1
3	04-003902		PISTON	1
4	04-021402		VALVE, HOLDING	1
	04-021409		SEAL KIT	1
5			VALVE BLOCK ASSEMBLY	1
6			PLUG, PIPE	1
7			HHCS	4
8			WASHER, LOCK	4
9*			O-RING	2
10*			O-RING	1
11*			RING, BACK-UP	1
12			GLAND, HEAD	1
13*			U-CUP	1
14			SETSCREW	1
15*			WIPER	1
16			ROD	1
17			CASE	1
18*			O-RING	1
19*			SEAL, PISTON	1
20*			O-RING	1
21*			RING, BACK-UP	2
22*			RING, PISTON	2
23*			COTTER KEY	1
*	04-031901		SEAL KIT **NOTE:** ITEMS IN SEAL KIT IDENTIFIED BY AN ASTERISK (*).	1

TITLE: LIFT CYLINDER

PLATE NO. D09.31

SIMON AERIALS INC. ORIGIN 06/01/90

PART NO. 04-031900



TITLE	LIFT CYLINDER		
SIMON AERIALS INC. ORIGIN 06/01/90	PART NO. 04-031900	PLATE NO. D09.31	

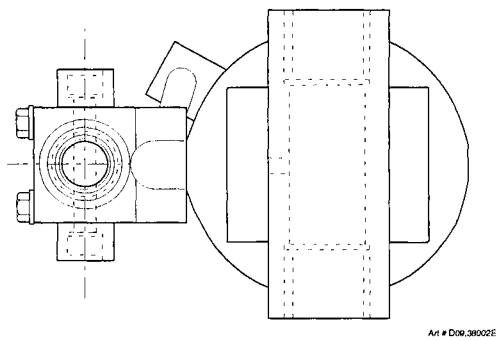
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			CASE, CYLINDER	1
2			ROD, CYLINDER	1
3			PISTON	1
4			GLAND, HEAD	1
5			NUT, PISTON ROD	1
6	04-032906		BUSHING	4
7	04-035701		SEAL KIT (not for use with water-glycol hydraulic fluid) **Note:** Items in kit identified by asterisk (*).	1
8			WIPER, ROD	1
9			SEAL, ROD	1
10			RING, ROD WEAR	4
11			"O"-RING	1
12			RING, BACKUP	1
13			"O"-RING	1
14			RING, BACKUP	1
15			"O"-RING	1
16			SEAL, PISTON	1
17			RING, PISTON WEAR	3
18			VALVE BLOCK	1
19			"O"-RING	2
20			CAP SCREW, HEX HEAD (3/8"-16 x 3")	4
21			WASHER, LOCK	4
			The following item **is not** part of the cylinder assembly:	
22	01-222000		VALVE, COUNTERBALANCE (Holding valve) 10:1 (Factory set at 4900 PSI [338 Bar] [344.5 Kg/ cm^2])	1
	04-021402		(For units built after approximately 10 December 1992. Supercedes 04-021402 as replacement on earlier units.) 25:1 Ratio (Originally supplied on units built through about 10 December 1992. Has been superceded by 01-222000.)	

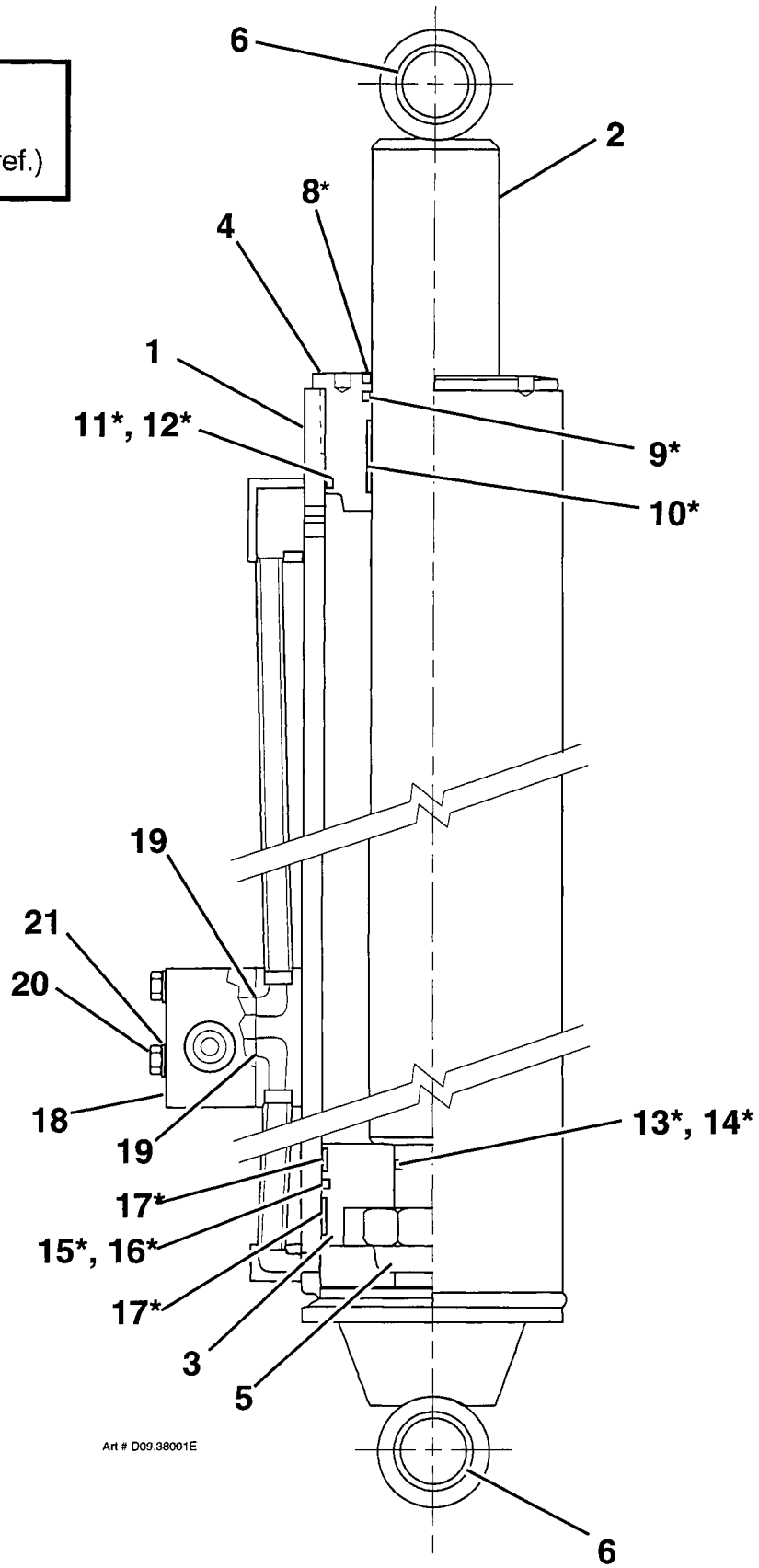
TITLE LIFT CYLINDER, 48.0" (1.22 M) STROKE

PLATE NO.			PART NO.
D09.38	**SIMON AERIALS INC.** REV. 15 FEB., 1995		04-035700

Note:
68" (1.73 M) fully retracted,
116" (2.95 M) fully extended (ref.)



View of Base End



TITLE	LIFT CYLINDER, 48.0" (1.22 M) STROKE		
SIMON AERIALS INC. REV. 15 FEB., 1995		PART NO. 04-035700	PLATE NO. D09.38

PARTS LIST

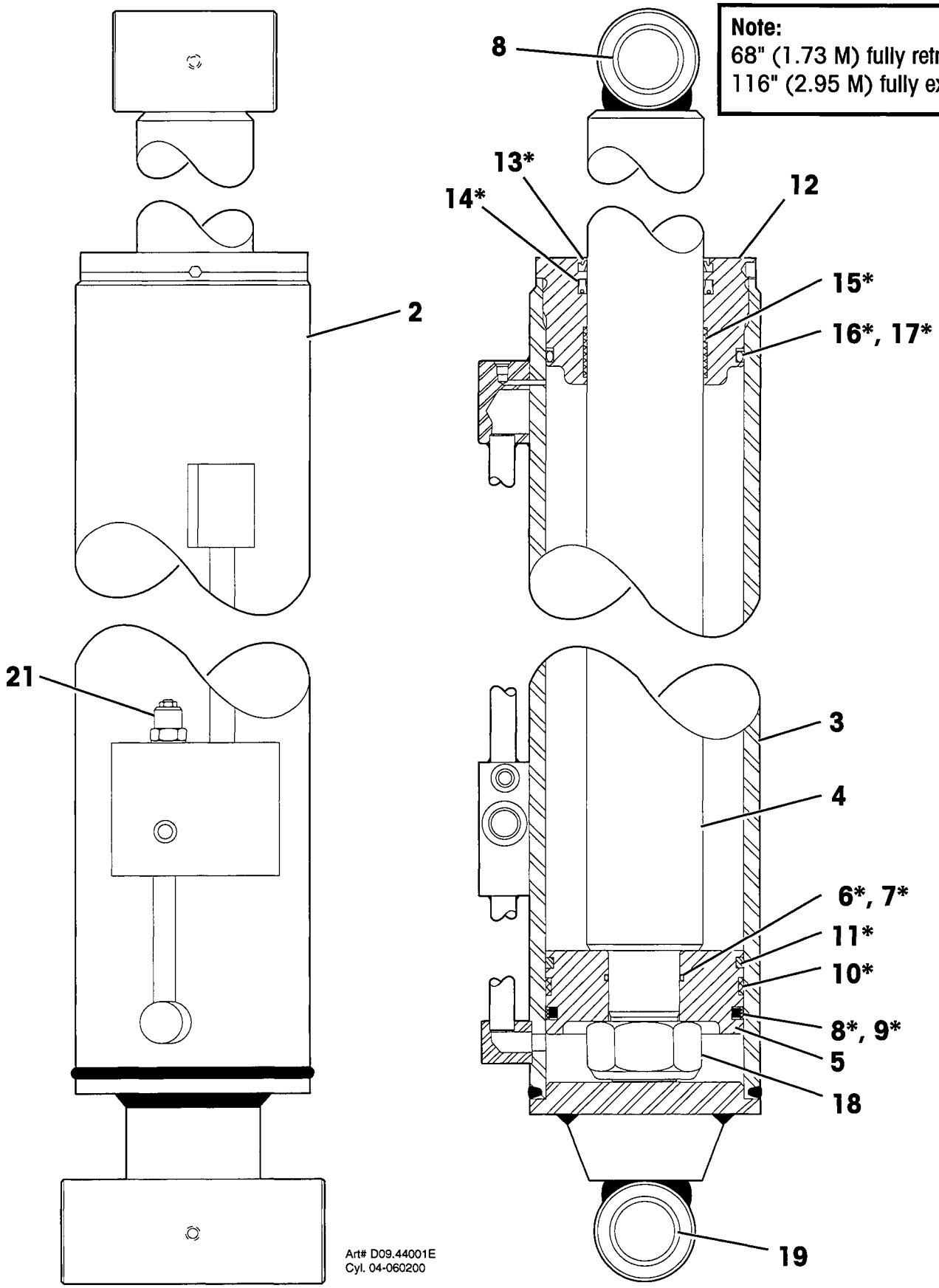
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			LIFT CYLINDER ASSEMBLY	1
2	04-060200		LIFT CYLINDER	1
3			CASE, CYLINDER (Barrel Assembly)	1
4			ROD , CYLINDER	1
5			PISTON ASSEMBLY	1
6	*		"O"-RING	1
7	*		RING, BACKUP	1
8	*		"O"-RING	1
9	*		SEAL, PISTON	1
10	*		RING, PISTON WEAR	1
11	*		RING, PISTON WEAR	1
12			GLAND, HEAD (Rod Bearing Assembly)	1
13	*		WIPER, ROD	1
14	*		SEAL, ROD	1
15	*		RING, ROD WEAR	1
16	*		"O"-RING	1
17	*		RING, BACKUP	1
18			NUT, PISTON ROD	1
19			BUSHING	4
			The following items **are not** part of the cylinder assembly:	
20	04-060201		SEAL KIT (not for use with water-glycol hydraulic fluid) **Note:** Items in kit identified by asterisk (*).	1
21	04-060202		VALVE, COUNTERBALANCE (Holding valve) (marked "CBCH-LJN") (factory set at 5000 psi [345 bar] [351.6 kg/ cm^2])	1

TITLE

LIFT CYLINDER, 48.0" (1.22 M) STROKE

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
D09.	44	01	-	30 APR., 1997	04-060200

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TITLE

LIFT CYLINDER, 48.0" (1.22 M) STROKE

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
04-060200	-	30 APR., 1997	D09.	44	01

PARTS LIST

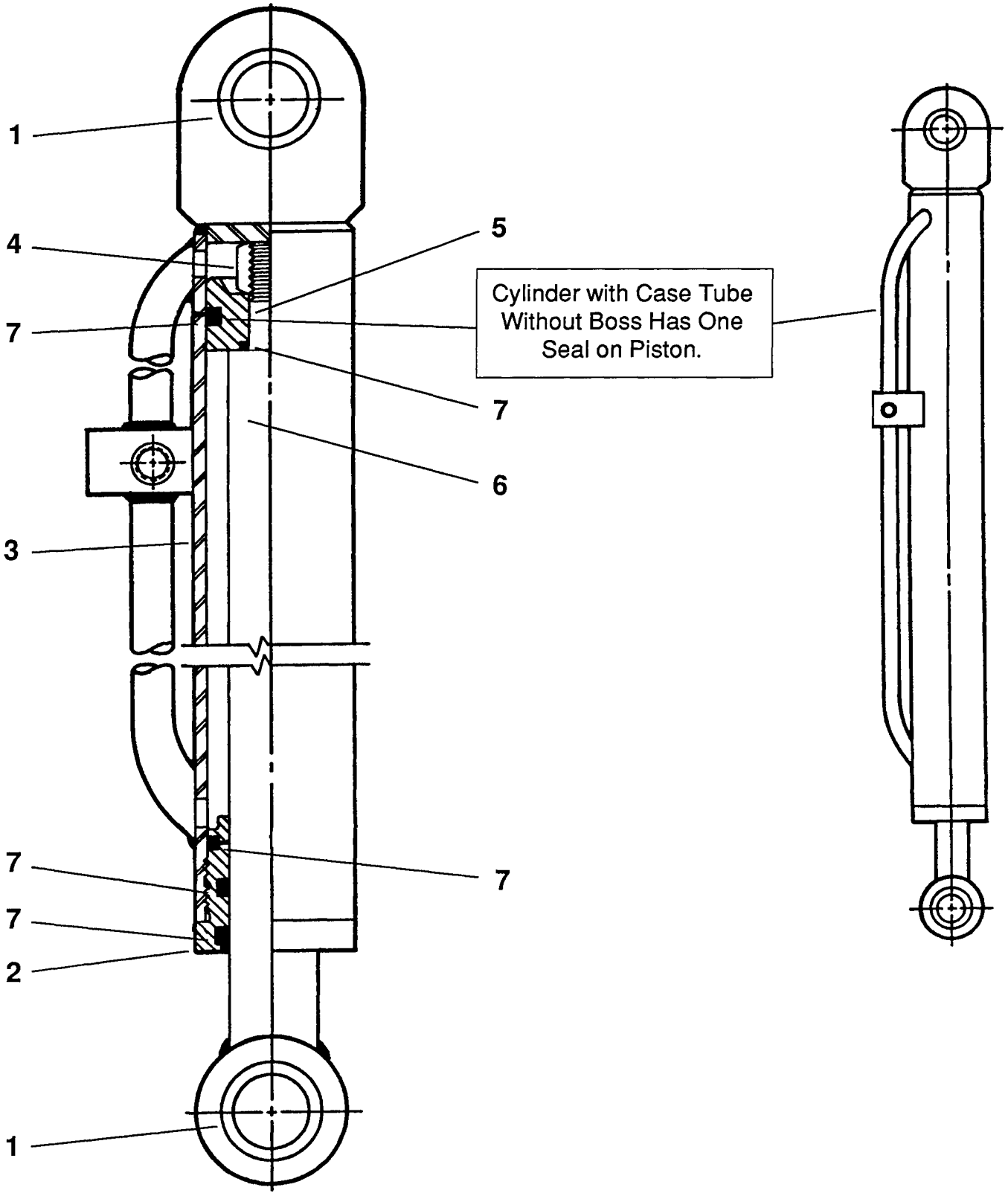
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			BUSHING	3
2			GLAND, HEAD	1
3			CASE	1
4			NUT, PISTON	1
5			PISTON	1
6			ROD	1
7	04-007101		SEAL KIT	1

TITLE: MASTER LEVEL CYLINDER

PLATE NO. D10.02

SIMON AERIALS INC. REV. 05/02/91

PART NO. 04-007400

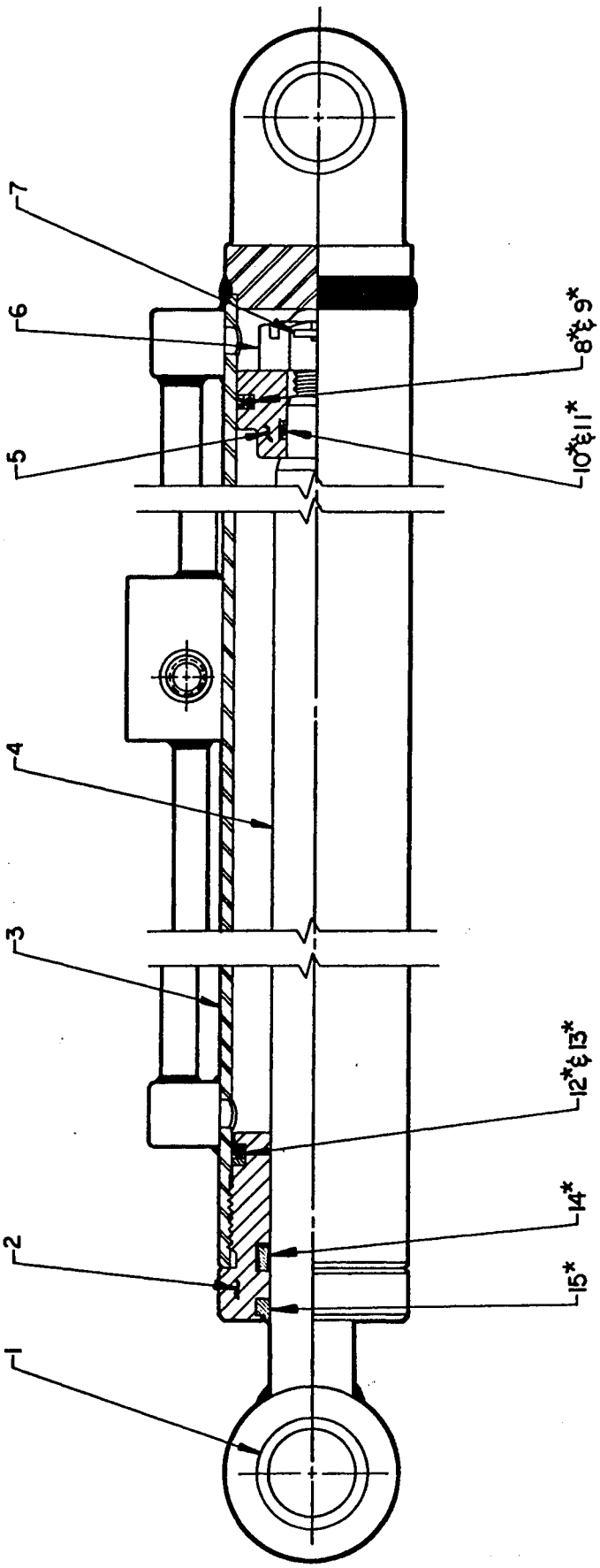


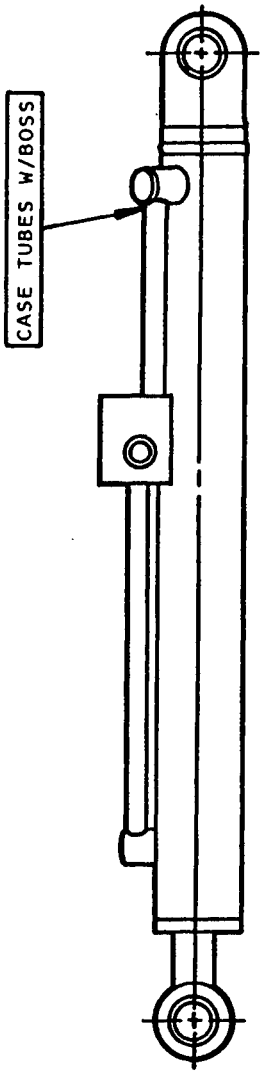
TITLE	MASTER LEVEL CYLINDER		
SIMON AERIALS INC.	REV. 05/02/91	PART NO. 04-007400	PLATE NO. D10.02

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			BUSHING	2
2			HEAD GLAND	1
3			CASE	1
4	04-002402		ROD	1
5	04-002403		PISTON	1
6	04-001203		PISTON NUT	1
7			COTTER KEY	1
8*			'O' RING	1
9*			PISTON SEAL	1
10*			'O' RING	1
11*			BACK-UP RING	2
12*			'O' RING	1
13*			BACK-UP RING	1
14*			ROD SEAL	1
15*			WIPER	1
*	04-002401		SEAL KIT	1

DESCRIPTION	PART NO.
MASTER LEVELING CYLINDER	04-002500





NOTE:
* SEAL KIT P/N 04-002401

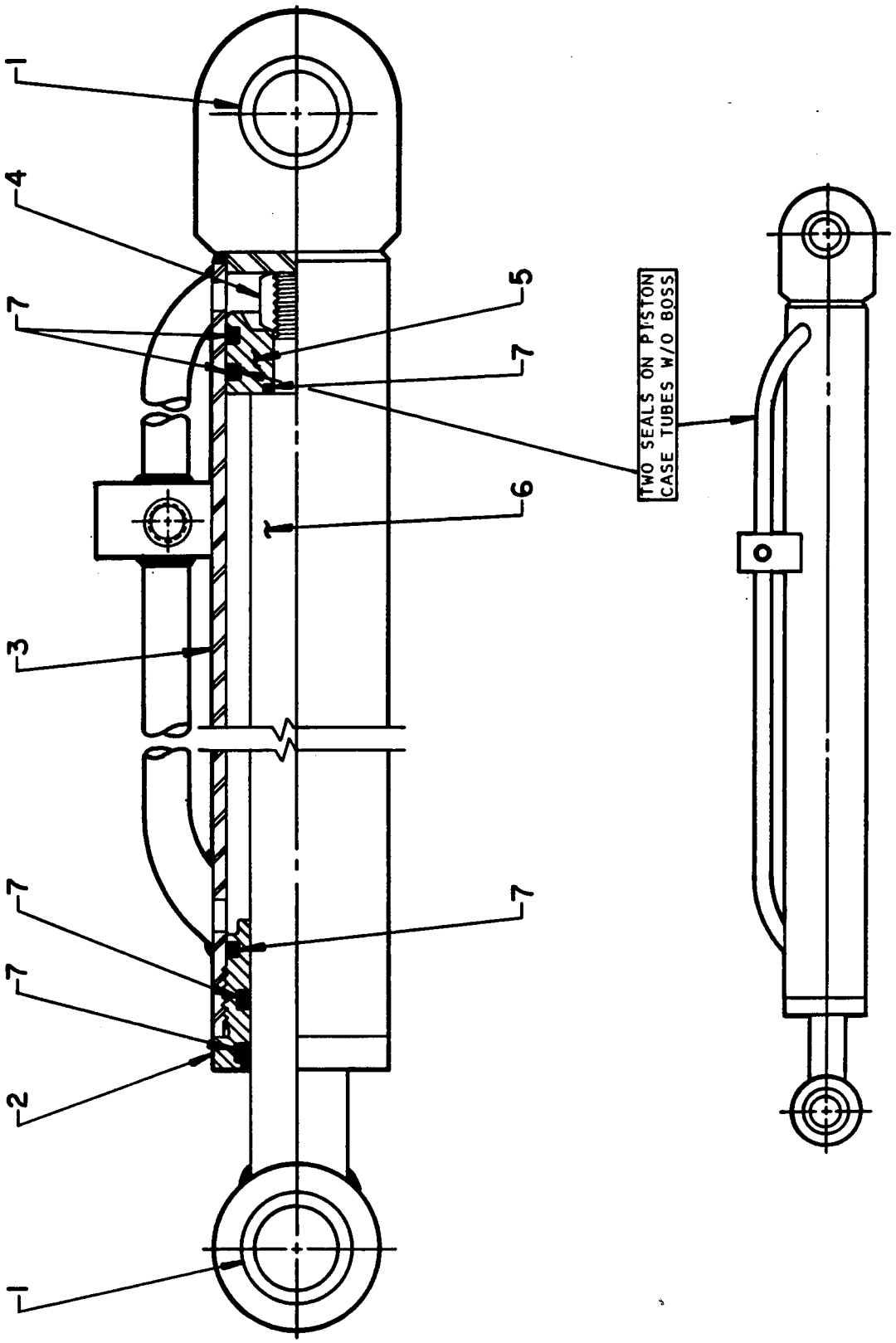
1184/0677

DESCRIPTION	PART NO.
MASTER LEVELING CYLINDER	04-002500

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			BUSHING	3
2			HEAD GLAND	1
3			CASE	1
4			PISTON NUT	1
5			PISTON	1
6			ROD	1
7	04-004401		SEAL KIT	1

DESCRIPTION	PART NO.
MASTER LEVELING CYLINDER	04-004400



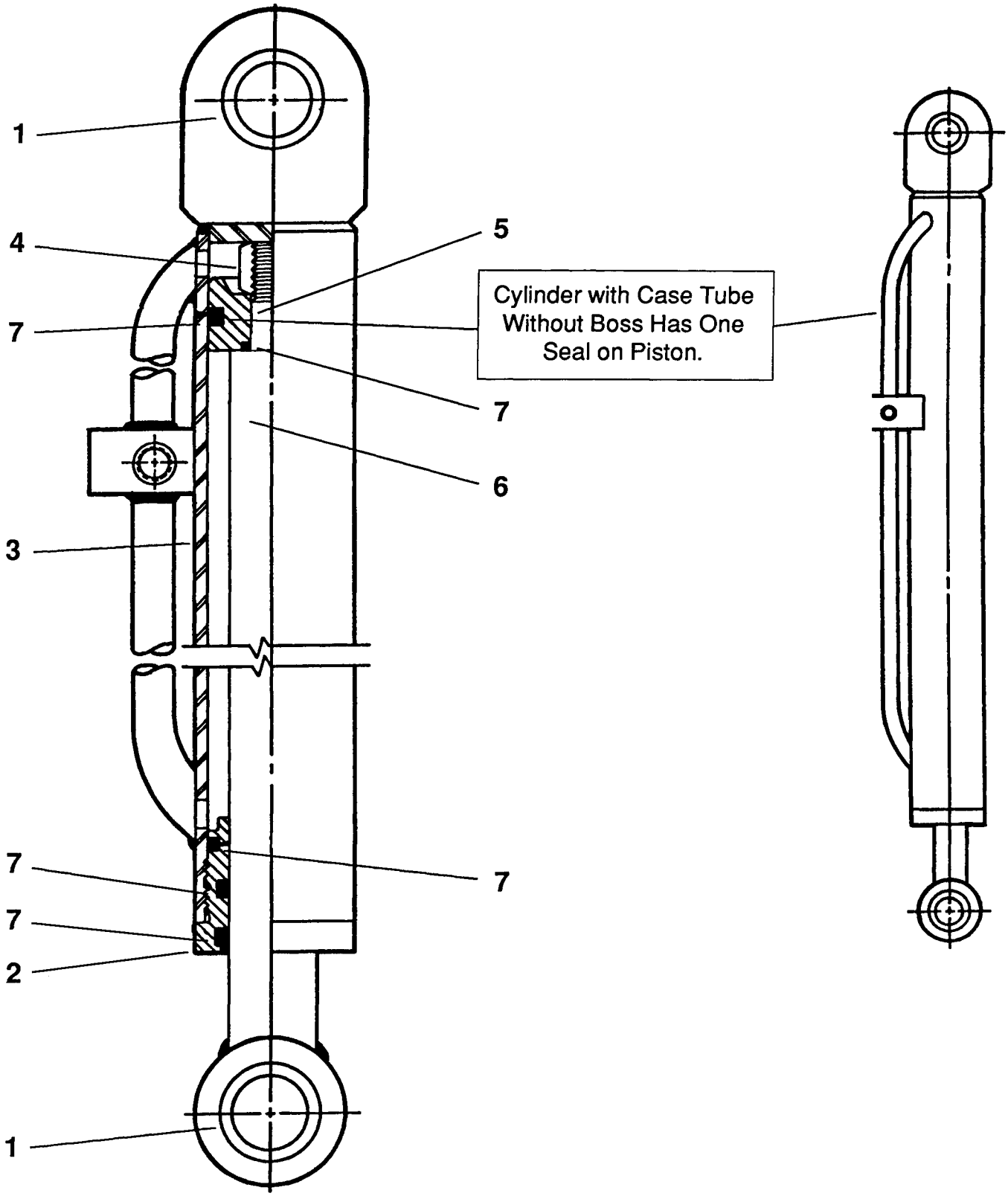
1184/0881

DESCRIPTION	PART NO.
MASTER LEVELING CYLINDER	04-004400

PARTS LIST

ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
1			BUSHING	3
2			GLAND, HEAD	1
3			CASE	1
4			NUT, PISTON	1
5			PISTON	1
6			ROD	1
7	04-031501		SEAL KIT **NOTE:** ITEMS IN SEAL KIT IDENTIFIED BY AN ASTERISK (*).	1

TITLE	MASTER LEVEL CYLINDER			
PLATE NO. D10.12	**SIMON AERIALS INC.**	ORIGIN 06/19/90	PART NO.	04-031600

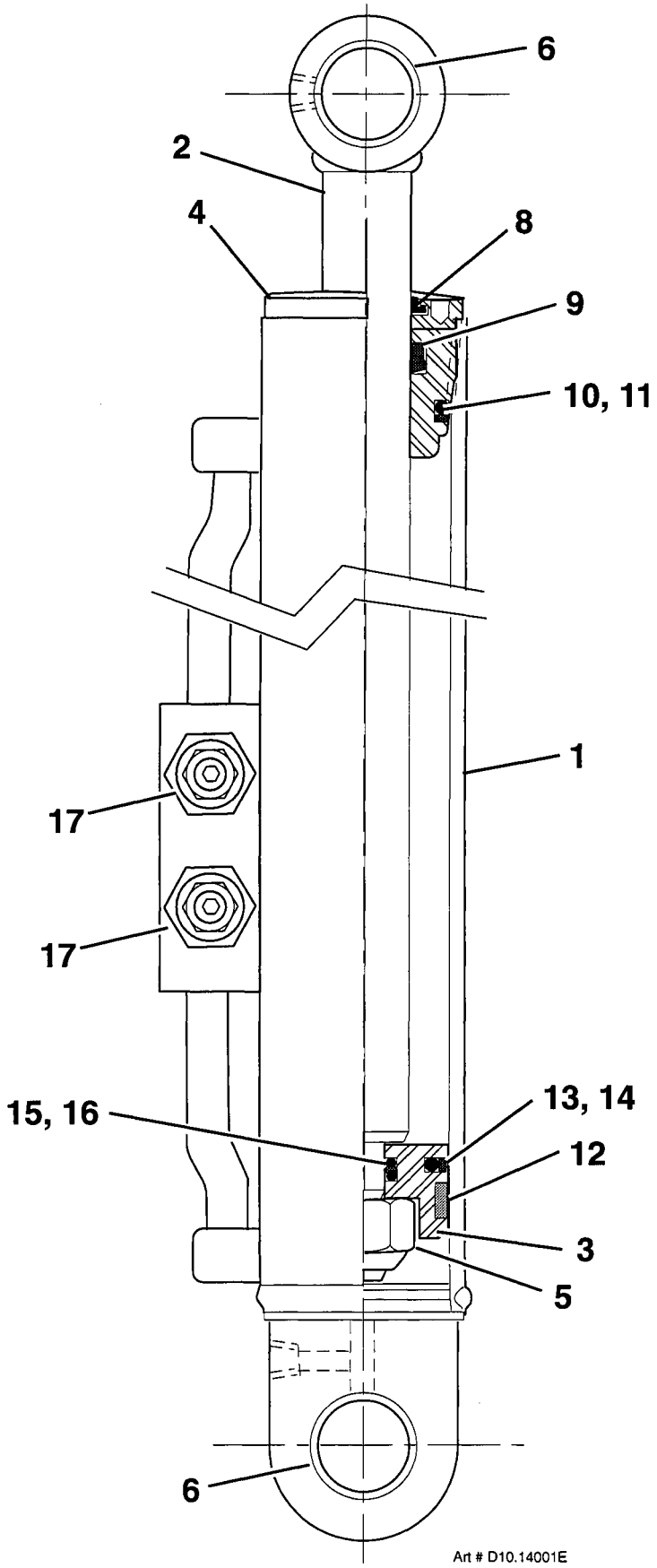


TITLE	MASTER LEVEL CYLINDER		
SIMON AERIALS INC. ORIGIN 06/19/90		PART NO. 04-031600	PLATE NO. D10.12

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Cylinder can be identified by Part Number "04035500SH" on nameplate located on valve block.	
1			CASE, CYLINDER	1
2			ROD, CYLINDER	1
3			PISTON	1
4			GLAND, HEAD	1
5			NUT, LOCK	1
6	04-035401		BUSHING	4
7	04-032601		SEAL KIT	1
8			WIPER, ROD	1
9			SEAL, ROD	1
10			"O"-RING	1
11			RING, BACKUP	1
12			RING, PISTON WEAR	1
13			"O"-RING	1
14			SEAL, PISTON	1
15			"O"-RING	1
16			WASHER, BACKUP	1
17	04-028202		CARTRIDGE, HOLDING VALVE (Cartridge is stamped "RDDA-3250 PSI-N")	2
18	04-028204		SEAL KIT, HOLDING VALVE	1

TITLE	MASTER LEVEL CYLINDER, 17-3/4" (.45 M) STROKE		
PLATE NO. D10.14	**SIMON AERIALS INC.** NEW 27 APR., 1994	PART NO.	04-035500



TITLE	MASTER LEVEL CYLINDER, 17-3/4" (.45 M) STROKE		
SIMON AERIALS INC.	NEW 27 APR., 1994	PART NO. 04-035500	PLATE NO. D10.14

PARTS LIST

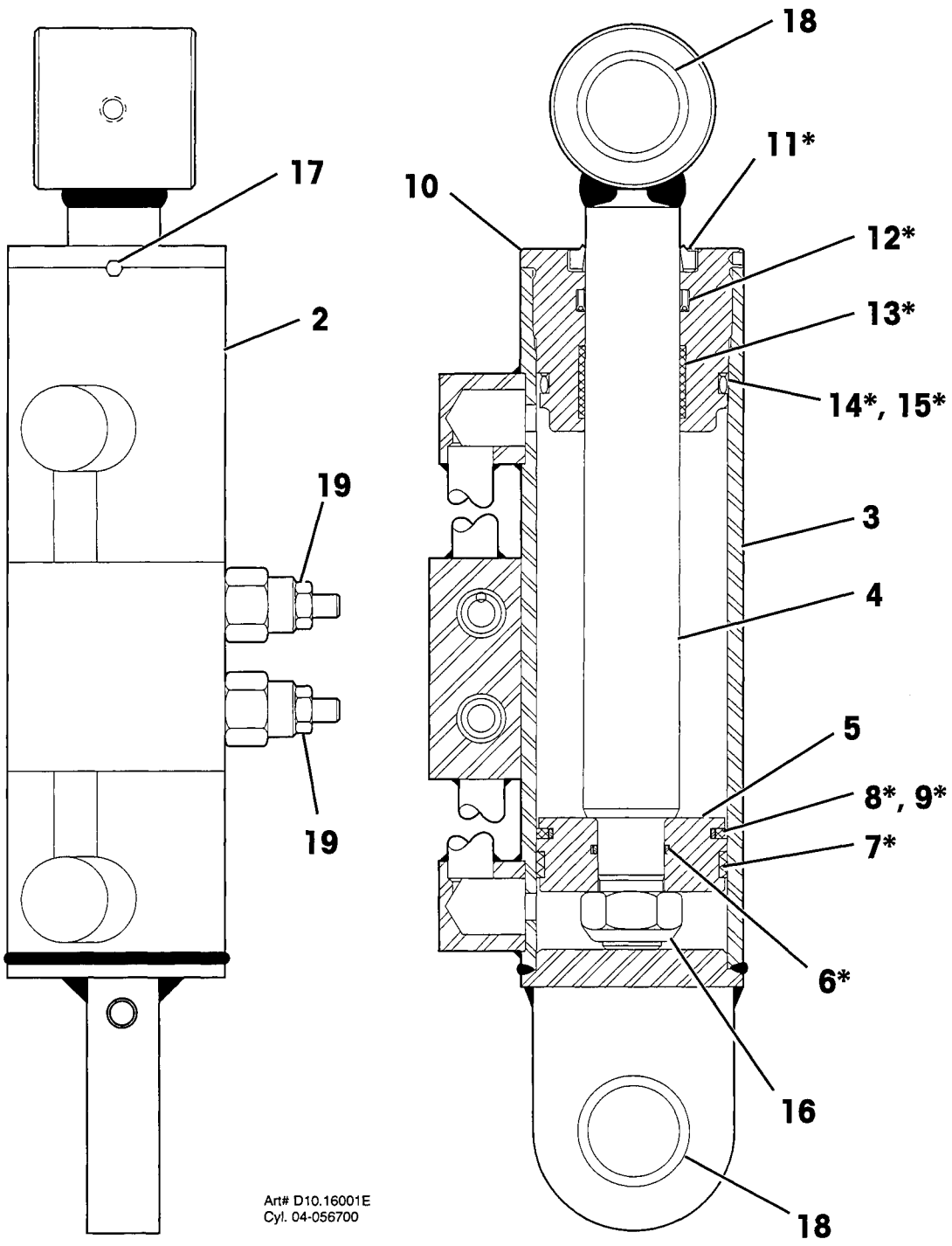
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Cylinder can be identified by Part Number "04056700" stamped on cylinder wall.	
1			MASTER LEVEL CYLINDER ASSEMBLY	1
2	04-056700		MASTER LEVEL CYLINDER	1
3			CASE, CYLINDER (Barrel Assembly)	1
4			ROD, CYLINDER	1
5			PISTON ASSEMBLY	1
6	*		"O"-RING	1
7	*		RING, PISTON WEAR	1
8	*		SEAL, PISTON	1
9	*		WASHER, BACKUP	1
10			GLAND, HEAD (Rod Bearing Assembly)	1
11	*		WIPER, ROD	1
12	*		SEAL, ROD	1
13	*		RING, ROD WEAR	1
14	*		"O"-RING	1
15	*		RING, BACKUP	1
16			NUT, PISTON ROD	1
17			SCREW, ROD BEARING LOCKING	1
18			BUSHING	4
19	04-056302		VALVE, RELIEF (marked "RDDA-LAN") (factory set at 3000 psi [207 bar] [211 kg/ cm^2])	2
			The following item **is not** part of the cylinder assembly:	
20	04-056301		SEAL KIT (not for use with water-glycol hydraulic fluid)	1
			Note: Items in kit identified by asterisk (*).	

TITLE

MASTER LEVEL CYLINDER, 17-3/4" (.45 M) STROKE

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
D10.	16	01	-	30 APR., 1997	04-056700

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24 Hr (Machine) 414-362-8280
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TITLE

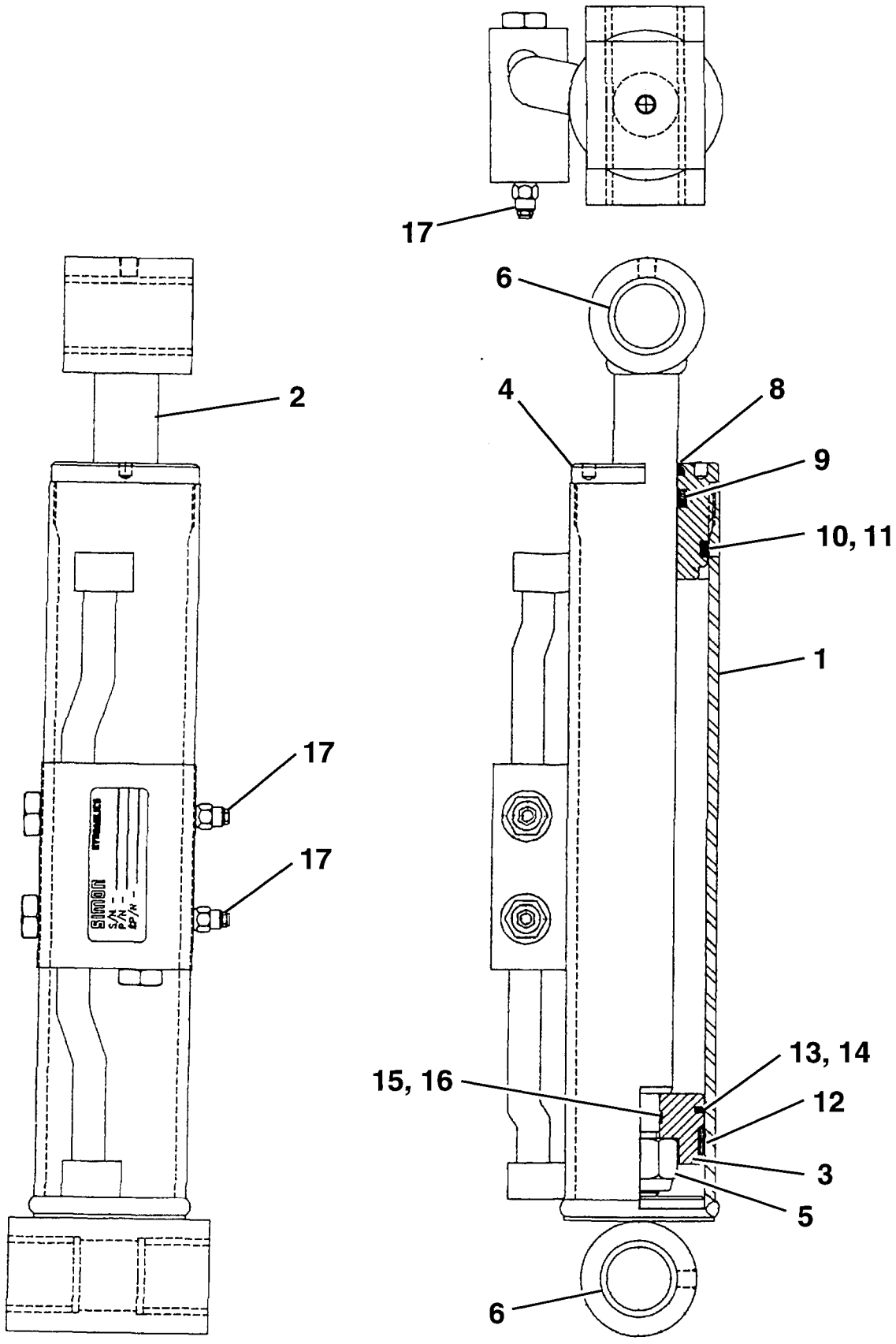
MASTER LEVEL CYLINDER, 17-3/4" (.45 M) STROKE

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
04-056700	-	30 APR., 1997	D10.	16	01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Cylinder can be identified by Part Number "04032600SH" on nameplate located on valve block.	
1			CASE, CYLINDER	1
2	04-032605		ROD, CYLINDER	1
3	04-032603		PISTON	1
4	04-032604		GLAND, HEAD	1
5	04-032602		NUT, LOCK	1
6	04-032406		BUSHING	4
7	04-032601		SEAL KIT	1
8			WIPER, ROD	1
9			SEAL, ROD	1
10			"O"-RING	1
11			RING, BACKUP	1
12			RING, PISTON WEAR	1
13			"O"-RING	1
14			SEAL, PISTON	1
15			"O"-RING	1
16			WASHER, BACKUP	1
17	04-028202		CARTRIDGE, HOLDING VALVE	2
18	04-028204		SEAL KIT, HOLDING VALVE	1

TITLE	MASTER LEVEL CYLINDER, 10" (.25 M) STROKE			
PLATE NO.	D10.101	**SIMON AERIALS INC.**	NEW 03 DEC., 1992	PART NO. 04-032600



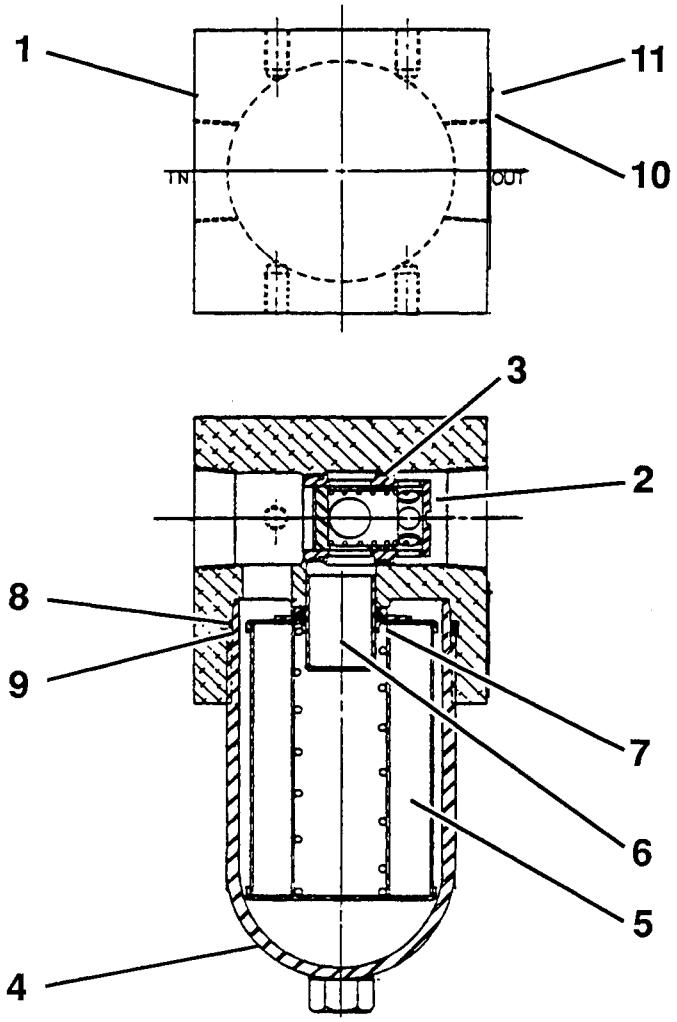
TITLE	MASTER LEVEL CYLINDER, 10" (.25 M) STROKE		
SIMON AERIALS INC. NEW 03 DEC., 1992		PART NO. 04-032600	PLATE NO. D10.101

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			HEAD, FILTER	1
2			VALVE ASSEMBLY, NON-BYPASS	1
3			O-RING	1
4			BOWL ASSEMBLY, FILTER	1
5	01-033813		ELEMENT, FILTER	1
6			BUSHING, ELEMENT	1
7			O-RING	1
8			O-RING	1
9			RING, BACK-UP	1
10			NAMEPLATE	1
11			STUD, DRIVE	4
12	01-033802		SEAL KIT	1

TITLE: HIGH PRESSURE FILTER

PLATE NO. D11.01 | **SIMON AERIALS INC.** REV. 05/02/91 | PART NO. 01-035100

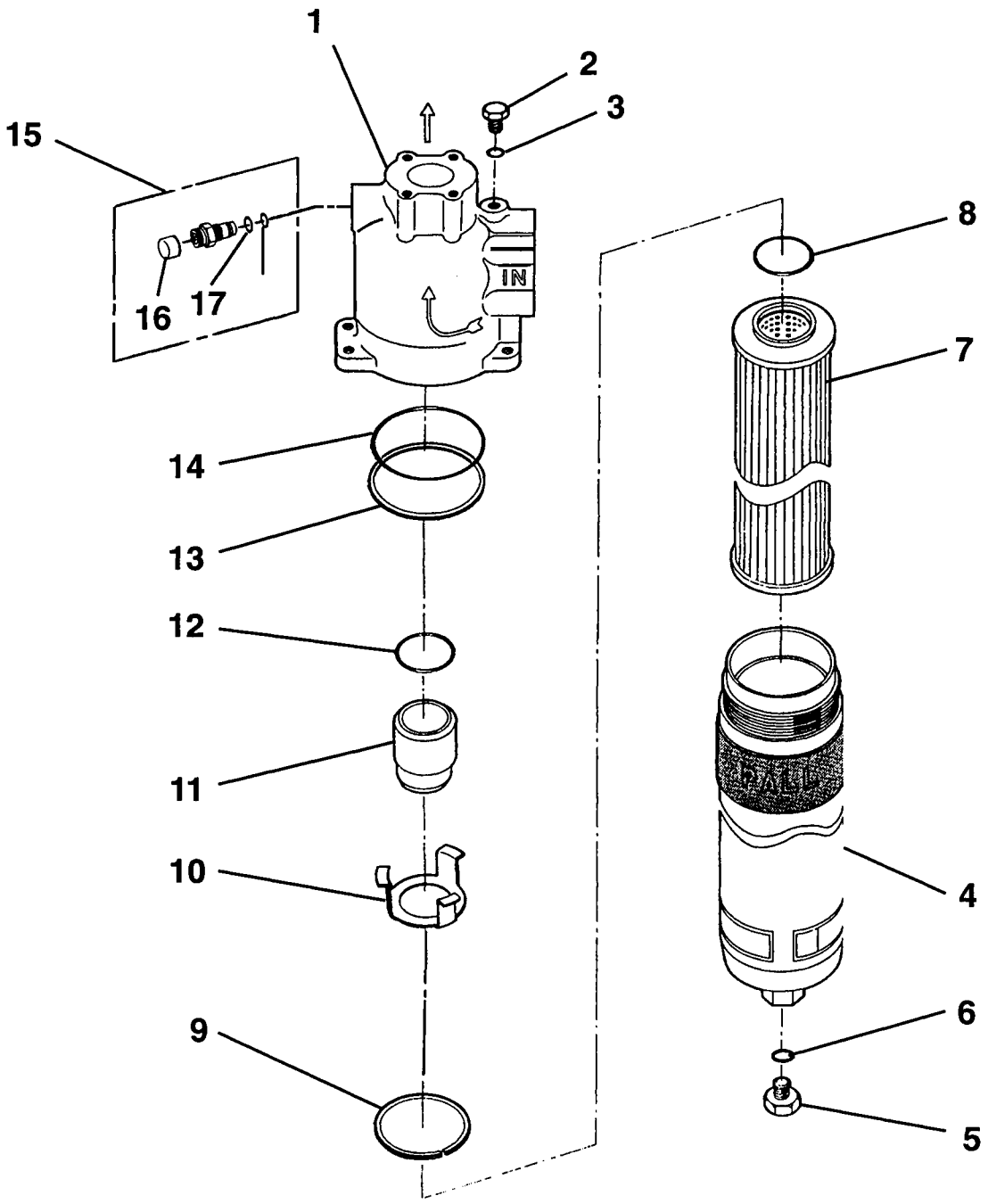


TITLE	HIGH PRESSURE FILTER		
SIMON AERIALS INC. REV. 05/02/91	PART NO. 01-035100	PLATE NO. D11.01	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			BASE, FILTER	1
2			PLUG, AIR BLEED	1
3			O-RING	1
4			BOWL	1
5	01-000639		PLUG, DRAIN	1
6	01-000602		O-RING	1
7	01-000606		ELEMENT, FILTER	1
8			O-RING	1
9			RING, RETAINING	1
10			COLLAR, VALVE RETAINING	1
11			NIPPLE	1
12			O-RING	1
13	01-000608		BACKUP RING	1
14	01-000609		O-RING	1
15	01-000640		INDICATOR ASSEMBLY, VISUAL	1
16			DUST COVER	1
17			O-RING	1
18			O-RING	1

TITLE	HIGH PRESSURE FILTER	
PLATE NO. D11.02	**SIMON AERIALS INC.** REV. 05/02/91	PART NO. 01-000600

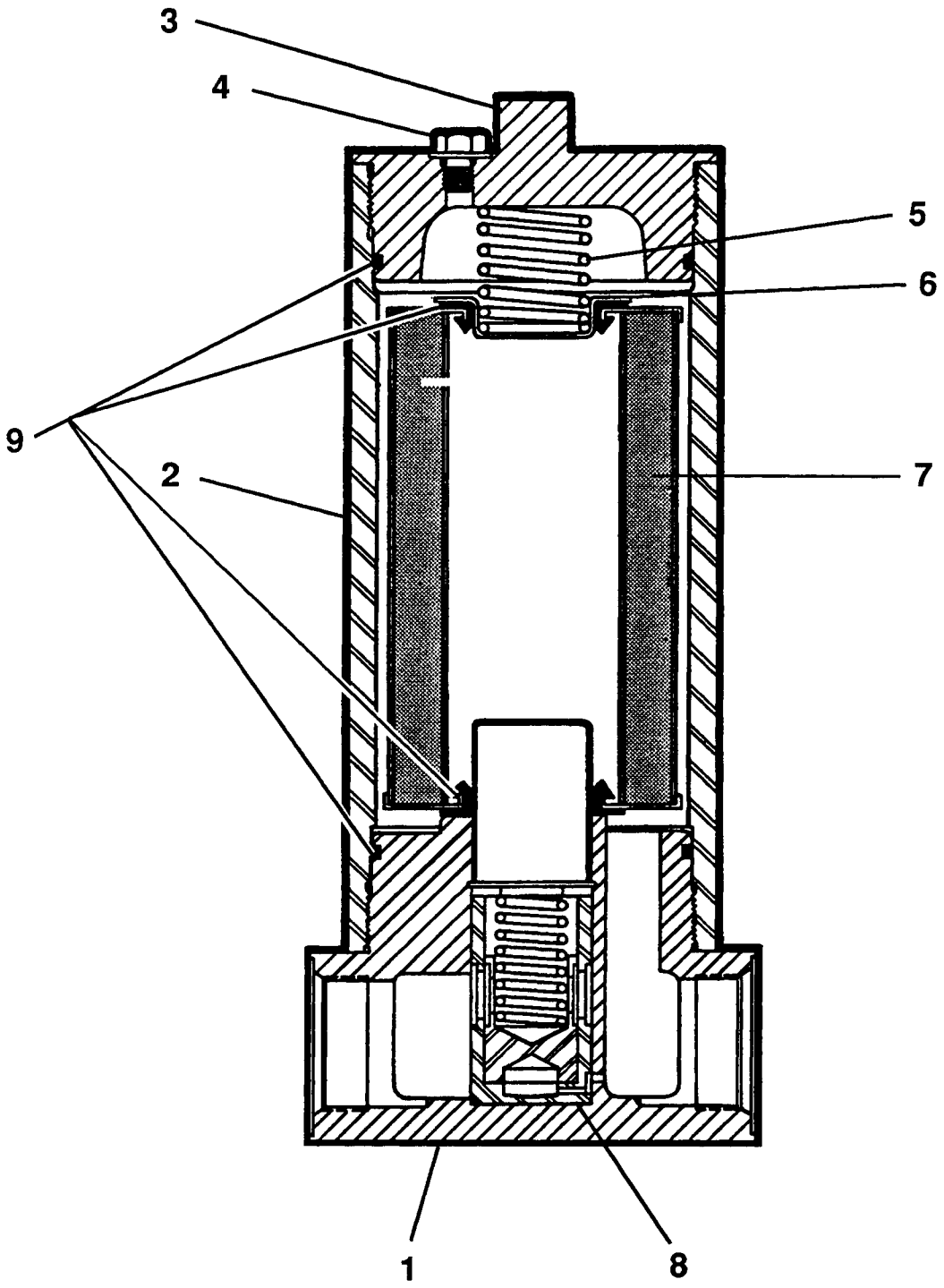


TITLE	HIGH PRESSURE FILTER		
SIMON AERIALS INC. REV. 05/02/91	PART NO. 01-000600	PLATE NO. D11.02	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-014006		BLOCK ASSEMBLY, FILTER	1
2			HOUSING, FILTER	1
3			CAP, FILTER HOUSING	1
4			PLUG, AIR BLEED (7/16"-20)	1
5	01-014003		SPRING, COMPRESSION	1
6	01-014004		CUP, COMPRESSION SPRING	1
7	01-014001		ELEMENT, FILTER (10 micron, paper) (Standard element, supplied with filter assembly) **Note: not suitable** for use with water glycol fluid	1
	01-014005		ELEMENT, FILTER (3 micron, paper) (Option) **Note: not suitable** for use with water glycol fluid	1
	01-200700		ELEMENT, FILTER (synthetic material) (Option) **Note: suitable** for use with water glycol fluid	1
8			VALVE ASSEMBLY, NON-BYPASS	1
9	01-014002		SEAL KIT, HIGH PRESSURE FILTER	1

TITLE	HIGH PRESSURE FILTER		
PLATE NO. D11.03	**SIMON AERIALS INC.**	REV. 06/25/91	PART NO. 01-014000

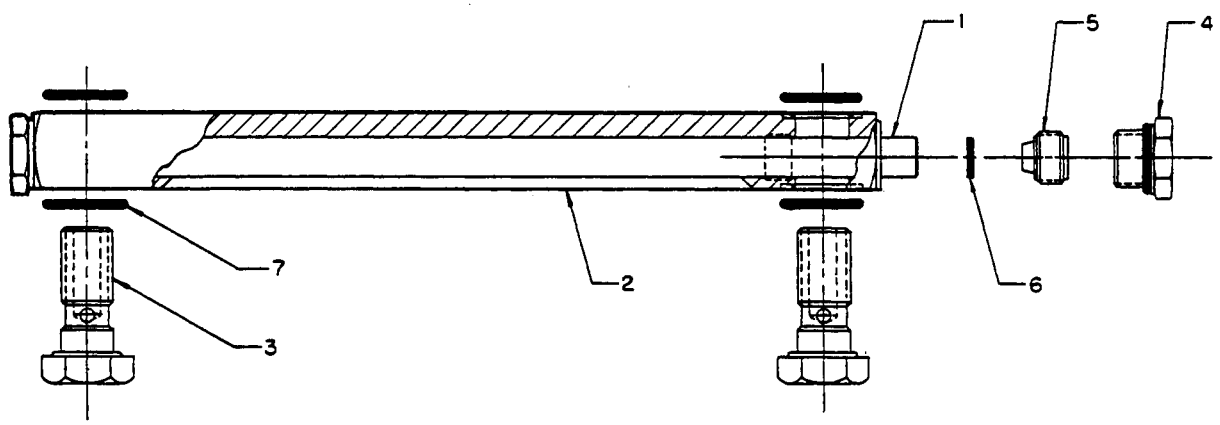


TITLE			
HIGH PRESSURE FILTER			
SIMON AERIALS INC. REV. 06/25/91	PART NO. 01-014000	PLATE NO. D11.03	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			SIGHT GLASS	1
2			GAUGE BODY	1
3			THRU BOLT	2
4			'O' RING PLUG 9/16	2
5			INTERNAL CAP	2
6			INTERNAL SEAL	2
7			'O' RING	4

DESCRIPTION	PART NO.
SIGHT GAUGE 12"	10-033500



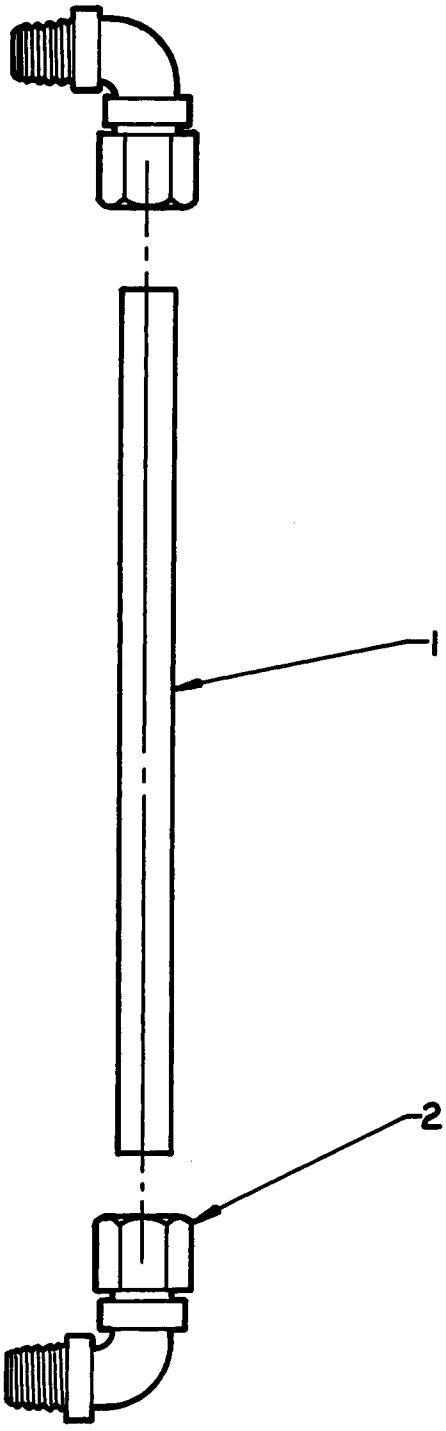
0684/0184

DESCRIPTION	PART NO.
SIGHT GAUGE 12"	10-033500

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	05-010008		TUBE, SIGHT GAUGE	A.R.
2	05-010011		ELBOW, 90°	2

DESCRIPTION	PART NO.
SIGHT GAUGE, PLASTIC	05-010008



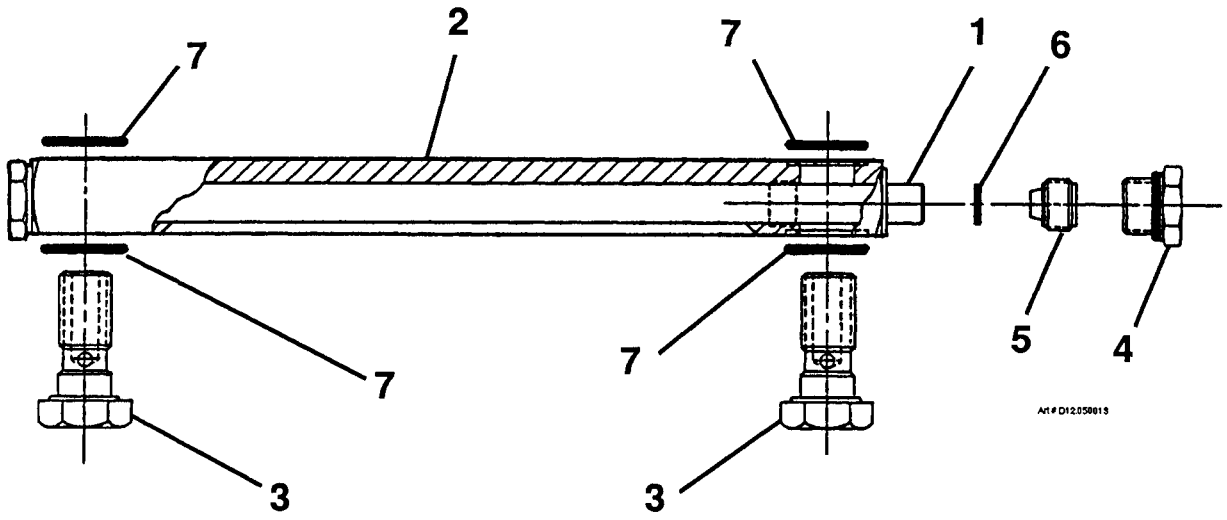
1284/0677

DESCRIPTION	PART NO.
SIGHT GAUGE, PLASTIC	05-010008

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			GLASS, SIGHT	1
2			BODY, SIGHT GAUGE	1
3			BOLT, THRU	2
4			PLUG, O-RING (9/16")	2
5			CAP, INTERNAL	2
6			SEAL, INTERNAL	2
7			O-RING	4

TITLE	SIGHT GAUGE, 14"		
PLATE NO. D12.05	**SIMON AERIALS INC.**	REV. 05/02/91	PART NO. 10-033800

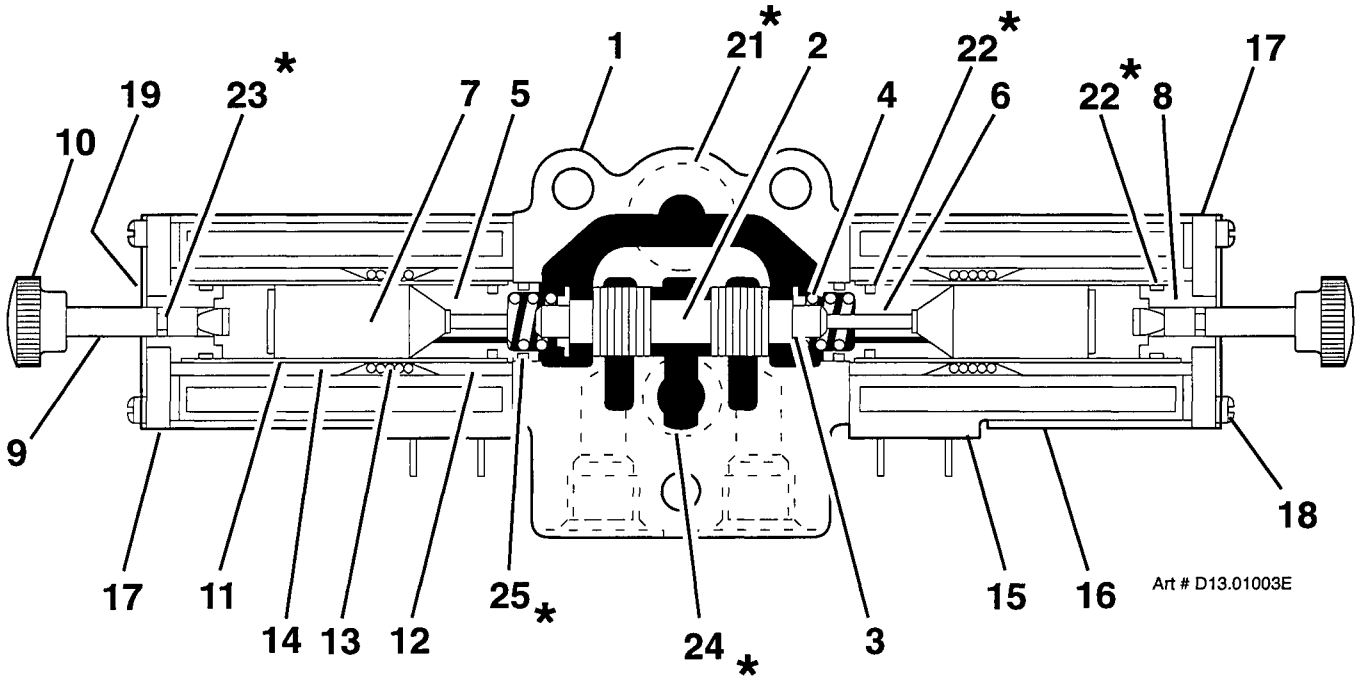


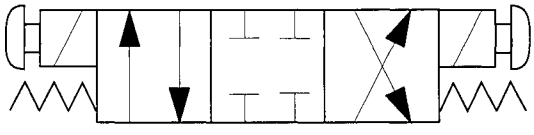
TITLE	SIGHT GAUGE, 14"		
SIMON AERIALS INC. REV. 05/02/91	PART NO. 10-033800	PLATE NO. D12.05	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			BODY, VALVE	1
2	01-031707		SPOOL, VALVE	1
3	01-031704		SEAT, SPRING (Hat washer)	2
4	01-031714		SPRING	2
5	01-031725		CONE, FEMALE	2
6	01-031719		PIN, PUSH	2
7	01-031721		PLUNGER	2
8	01-031722		GUIDE, ACTUATOR PIN	2
9	01-031706		PIN, ACTUATOR	2
10	01-031705		KNOB	2
11	01-031718		TUBE, GUIDE	2
12	01-031717		SLEEVE, FLUX (Inner)	2
13	01-031715		SPRING	2
14	01-031716		SLEEVE, FLUX (Outer)	2
15	01-031701		COIL (12 Volt DC)	2
	01-031802		COIL (24 Volt DC)	2
16	01-031713		CASE, SOLENOID	2
17			PLATE, END	2
18	01-031724		SCREW, FILLISTER HEAD (#10-24 x 3-7/8")	8
19			NAMEPLATE	1
20	01-031712		SEAL KIT	1
			Note: Items in kit identified by asterisk (*).	
21	01-031703		RING, QUAD (1-1/16" O.D.)	1
22	01-031710		O-RING	4
23	01-031709		O-RING	2
24	01-031702		RING, QUAD (3/4" O.D.)	1
25	01-031711		O-RING	2

TITLE	4-WAY, 3 POSITION SOLENOID VALVE, CLOSED CENTER SPOOL			
PLATE NO.	D13.01	**SIMON AERIALS INC.**	REV. 20 SEP., 1995	PART NO. 01-031700





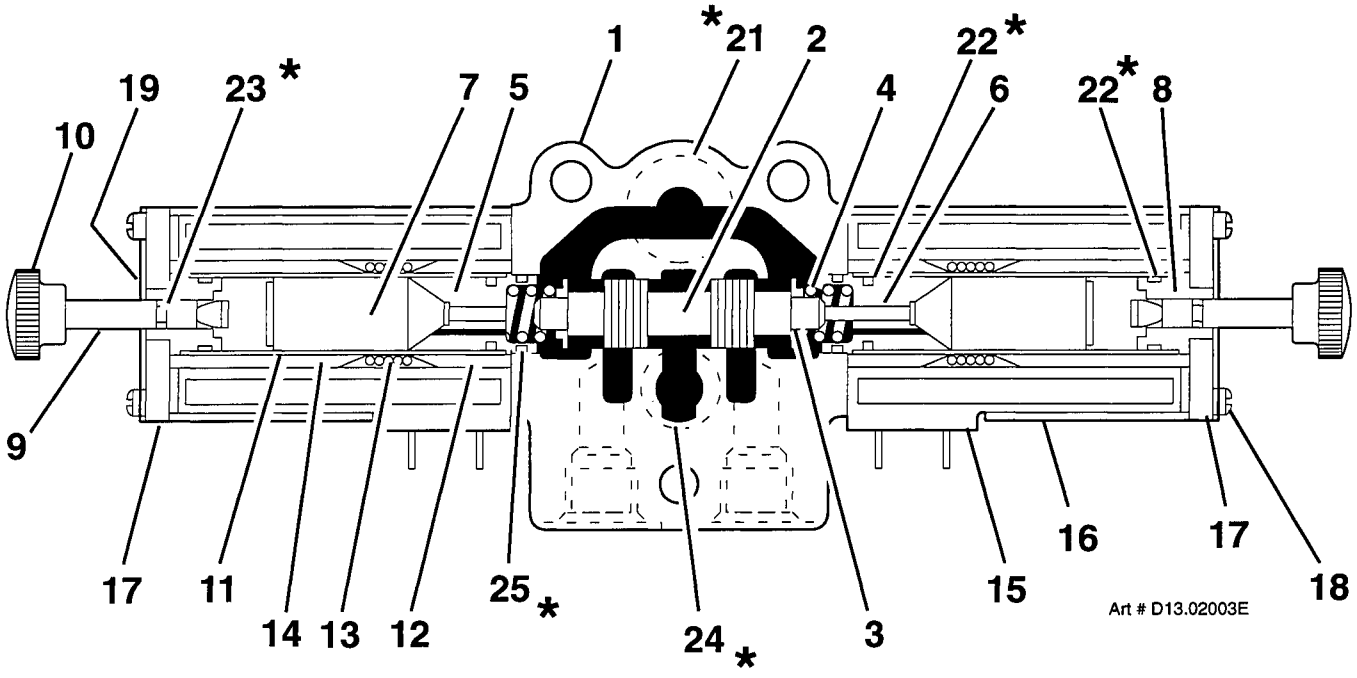
TITLE	4-WAY, 3 POSITION SOLENOID VALVE, CLOSED CENTER SPOOL		
SIMON AERIALS INC.	REV. 20 SEP., 1995	PART NO. 01-031700	PLATE NO. D13.01

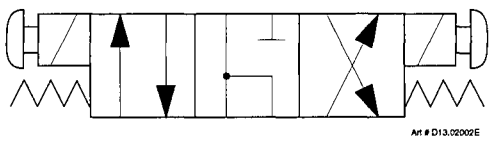
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			BODY, VALVE	1
2	01-031801		SPOOL, VALVE	1
3	01-031704		SEAT, SPRING (Hat washer)	2
4	01-031714		SPRING	2
5	01-031725		CONE, FEMALE	2
6	01-031719		PIN, PUSH	2
7	01-031721		PLUNGER	2
8	01-031722		GUIDE, ACTUATOR PIN	2
9	01-031706		PIN, ACTUATOR	2
10	01-031705		KNOB	2
11	01-031718		TUBE, GUIDE	2
12	01-031717		SLEEVE, FLUX (Inner)	2
13	01-031715		SPRING	2
14	01-031716		SLEEVE, FLUX (Outer)	2
15	01-031701		COIL (12 Volt DC)	2
	01-031802		COIL (24 Volt DC)	2
16	01-031713		CASE, SOLENOID	2
17			PLATE, END	2
18	01-031724		SCREW, FILLISTER HEAD (#10-24 x 3-7/8")	8
19			NAMEPLATE	1
20	01-031712		SEAL KIT	1
			Note: Items in kit identified by asterisk (*).	
21	01-031703		RING, QUAD (1-1/16" O.D.)	1
22	01-031710		O-RING	4
23	01-031709		O-RING	2
24	01-031702		RING, QUAD (3/4" O.D.)	1
25	01-031711		O-RING	2

TITLE 4-WAY, 3 POSITION SOLENOID VALVE, OPEN CENTER (MOTORING) SPOOL

PLATE NO. D13.02 | **SIMON AERIALS INC.** REV. 20 SEP., 1995 | PART NO. 01-031800





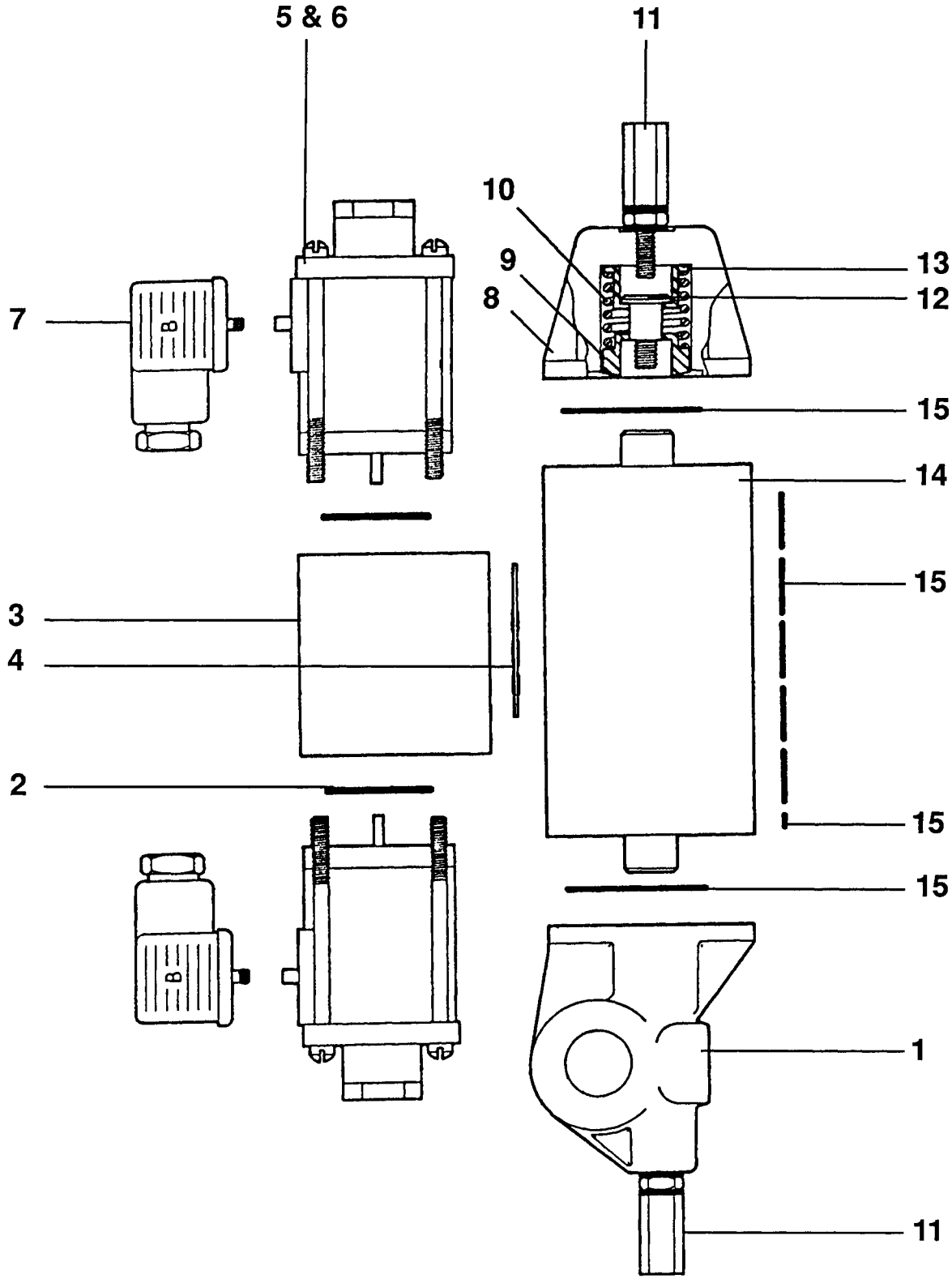
TITLE 4-WAY, 3 POSITION SOLENOID VALVE, OPEN CENTER (MOTORING) SPOOL

SIMON AERIALS INC. REV. 20 SEP., 1995	PART NO. 01-031800	PLATE NO. D13.02

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			LEVER CAP ASSEMBLY	1
2			O-RING	2
3	01-040305		PILOT VALVE ASSEMBLY	1
4			SEAL PLATE	1
5	01-040306		SOLENOID ASSEMBLY	2
6	01-040307		COIL 2	
7	03-043000		CONNECTOR	2
8			SPRING CAP ASSEMBLY	1
9			SPRING CUP	1
10			SPRING	1
11			STROKE CONTROL ASSEMBLY	1
12			SHOULDER SCREW	1
13			SPRING CUP	1
14			4-WAY VALVE ASSEMBLY	1
15	01-040312		VALVE SEAL KIT	1
16			COMPLETE VALVE (Includes all above items)	
	01-040301		DRIVE	
	01-040302		EXTEND	
	01-040303		HOIST	
	01-040304		SWING	

TITLE	4-WAY VALVE ASSEMBLY			
PLATE NO.	D13.03	**SIMON AERIALS INC.**	REV. 13/08/91	PART NO. 01-040301 THRU 01-040304



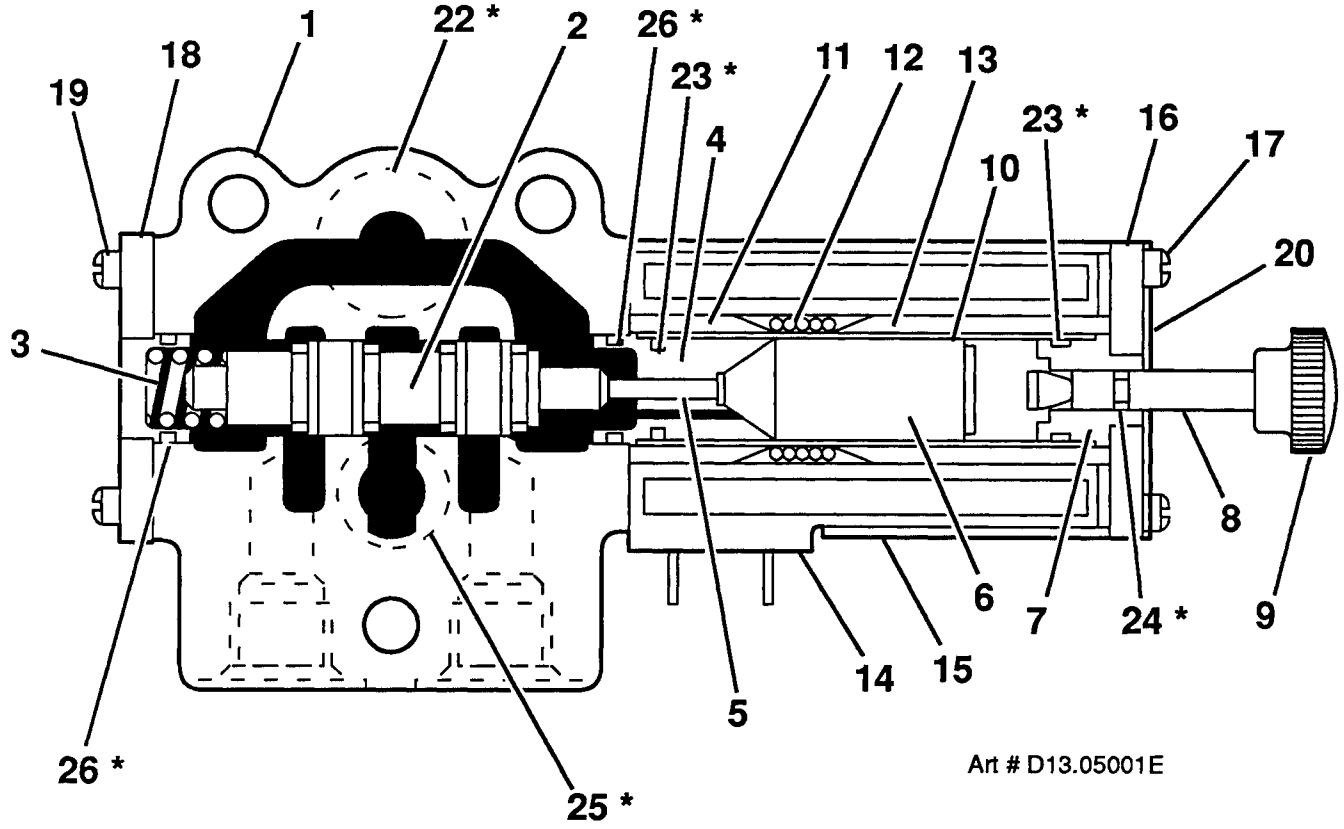
TITLE	4-WAY VALVE ASSEMBLY		
SIMON AERIALS INC. REV. 13/08/91	PART NO. 01-040301 THRU 01-040304	PLATE NO. D13.03	

PARTS LIST

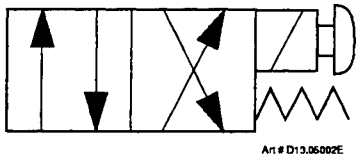
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			BODY, VALVE	1
2			SPOOL, VALVE	1
3	01-031714		SPRING	1
4	01-031725		CONE, FEMALE	1
5	01-031719		PIN, PUSH	1
6	01-031721		PLUNGER	1
7	01-031722		GUIDE, ACTUATOR PIN	1
8	01-031706		PIN, ACTUATOR	1
9	01-031705		KNOB	1
10	01-031718		TUBE, GUIDE	1
11	01-031717		SLEEVE, FLUX (Inner)	1
12	01-031715		SPRING	1
13	01-031716		SLEEVE, FLUX (Outer)	1
14	01-031701		COIL (12 Volt DC)	1
	01-031802		COIL (24 Volt DC)	1
15	01-031713		CASE, SOLENOID	1
16			PLATE, END	1
17	01-031724		SCREW, FILLISTER HEAD (#10-24 x 3-7/8")	4
18			PLATE, END	1
19			SCREW, FILLISTER HEAD (#10-24 x 5/8")	4
20			NAMEPLATE	1
21	01-031712		SEAL KIT	1
			Note: Items in kit identified by asterisk (*).	
22	01-031703		RING, QUAD (1-1/16" O.D.)	1
23	01-031710		O-RING (only two required this application)	4
24	01-031709		O-RING (only one required this application)	2
25	01-031702		RING, QUAD (3/4" O.D.)	1
26	01-031711		O-RING (only one required this application)	2

TITLE: 4-WAY, 2 POSITION SOLENOID VALVE

PLATE NO. D13.05 | **SIMON AERIALS INC.** REV. 06/24/91 | PART NO. 01-061900



Art # D13.05001E



Art # D13.05002E

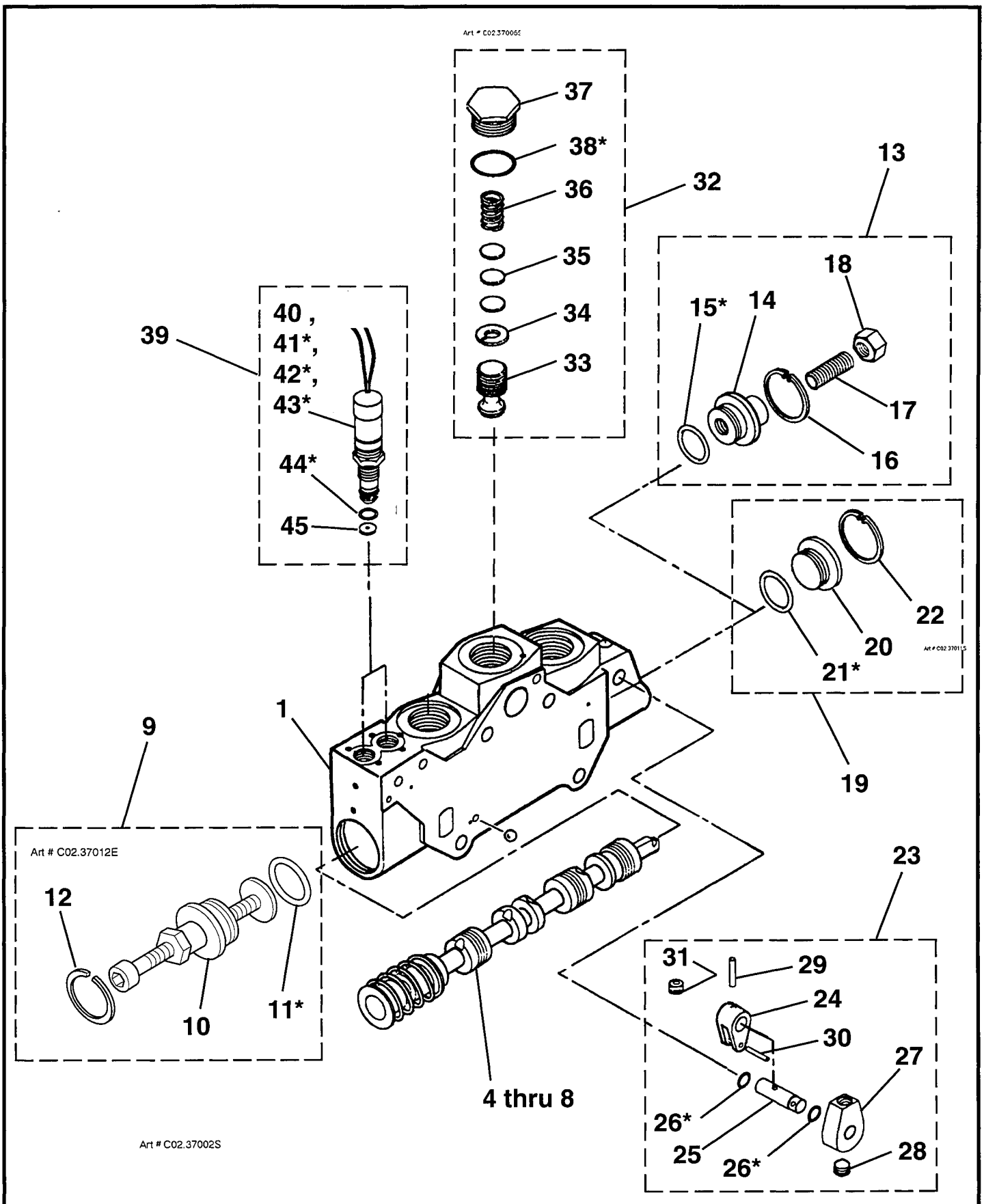
TITLE	4-WAY, 2 POSITION SOLENOID VALVE		
SIMON AERIALS INC. NEW 06/24/91	PART NO. 01-061900	PLATE NO. D13.05	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			DRIVE VALVE SECTION	1
	01-234500		for Model RP 46	
	Call Simon		for all other models, please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate.	
1			HOUSING, DRIVE VALVE SECTION	1
2			SEAL KIT, WORK SEGMENT (incl. all items with asterisk*)	1
	01-211026		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
3		*	BALL (for housing cross port)	1
4			SPOOL KIT, DRIVE VALVE	1
	Call Simon		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
5			SPOOL, MAIN	1
6			GUIDE, SPRING	2
7			SPRING, CENTERING	1
8			RING, RETAINING	1
9			CENTERING PLUG KIT	1
	01-216401		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
10			PLUG, CENTERING	1
11		*	"O"-RING	1
12			RING, RETAINING	1
13			FLOW LIMITER KIT	
			(Found on some units. Optional with End plug, Item 19)	1
	01-211023		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
14			PLUG, ADJUSTMENT	1
15		*	"O"-RING	1
16			RING, RETAINING	1
17			SET SCREW	1
18			NUT, SEAL	1
19			PLUG KIT, END	
			(Found on some units. Optional with Flow limiter, Item 13)	1
	01-211022		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
20			PLUG	1
21		*	"O"-RING	1
22			RING, RETAINING	1

TITLE DRIVE CONTROL VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2)

PLATE NO.		PART NO.
D13.06	**SIMON AERIALS INC.** REV. 16 FEB., 1996	



TITLE DRIVE CONTROL VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2)

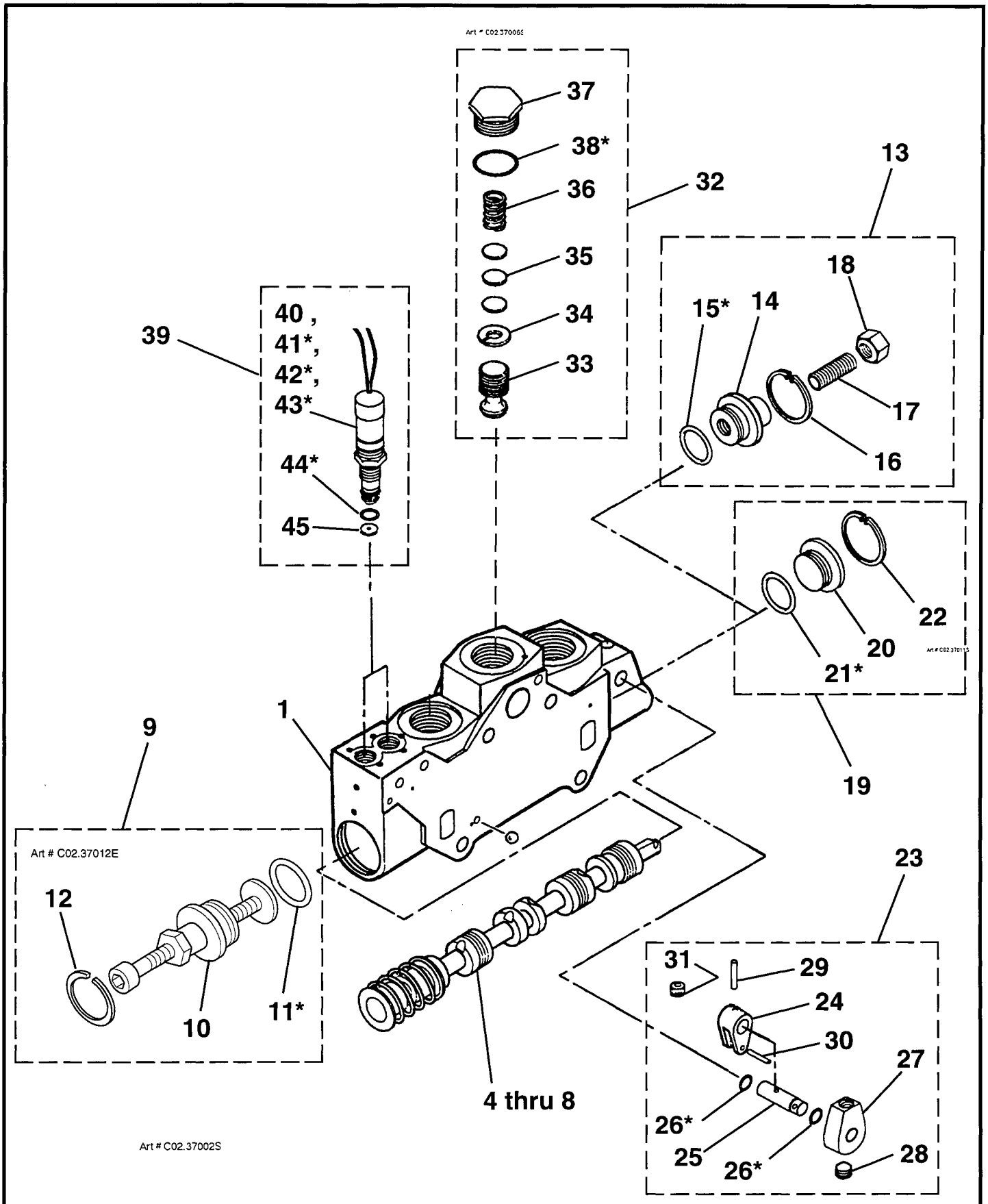
SIMON AERIALS INC.	REV. 16 FEB., 1996	PART NO.	PLATE NO. D13.06

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
23			MANUAL OPERATOR KIT	1
	01-211025		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
24			CLEVIS (has hole for .189" [4.8 mm] pin)	1
25			SHAFT (has hole for .189" [4.8 mm] pin)	1
26		*	"O"-RING	2
27			ADAPTER, HANDLE	1
28			SET SCREW	1
29			PIN, STRAIGHT (.189" [4.8 mm] dia.)	1
30			PIN, DOWEL	1
31			PLUG	1
32			PRESSURE COMPENSATOR KIT	1
	01-211024		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
33			SPOOL, COMPENSATOR	1
34			RING, RETAINING	1
35			SHIM (various thicknesses)	8
36			SPRING, COMPENSATOR	1
37			PLUG	1
38		*	"O"-RING	1
39			SOLENOID KIT (12 Volt Pulsar, with Weatherpac connector)	1
	01-211001		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
40			SOLENOID, PULSAR (12 Volt)	1
41		*	"O"-RING	1
42		*	SCREEN, SOLENOID FILTER	1
43		*	"O"-RING (special)	2
44		*	"O"-RING	2
45			PLATE, ORIFICE	1

TITLE DRIVE CONTROL VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2)

PLATE NO.		PART NO.
D13.06	**SIMON AERIALS INC.** REV. 16 FEB., 1996	



TITLE DRIVE CONTROL VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2)

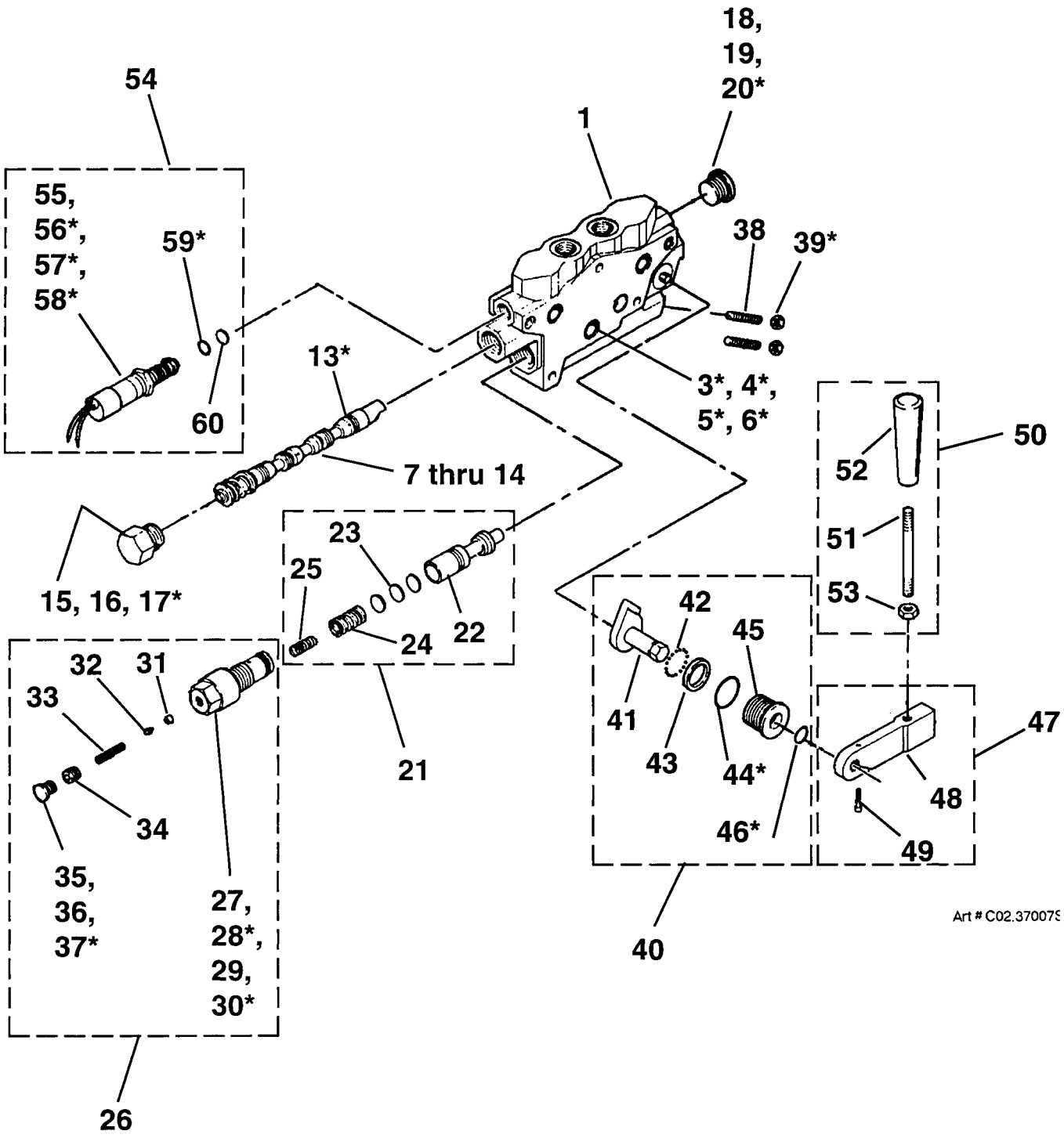
SIMON AERIALS INC. REV. 16 FEB., 1996	PART NO.	PLATE NO. D13.06

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			TELESCOPE VALVE SECTION	1
	01-231204		for Model RP 66	
	Call Simon		for all other models, please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate.	
1			HOUSING, TELESCOPE VALVE SECTION	1
2			SEAL KIT, WORK SEGMENT	1
	01-211004		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
			SEAL KIT, WORK SEGMENT . . . includes;	
3			BALL (for housing cross port)	1
4			"O"-RING (for housing cross port)	1
5			"O"-RING (for housing cross port)	2
6			"O"-RING (for housing cross port)	3
			plus all items below marked with an asterisk (*)	
7	Call Simon		SPOOL KIT, TELESCOPE VALVE Please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate.	1
8			SPOOL	1
9			RING, RETAINING	1
10			GUIDE, SPRING	2
11			SPRING, CENTERING	1
12			SHIM	1
13		*	"O"-RING	1
14			HOOK, OVERRIDE	1
15			PLUG, HEX	1
	01-211013		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
16			PLUG	1
17		*	"O"-RING	1
18			PLUG, SOCKET	1
	01-211009		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
19			PLUG	1
20		*	"O"-RING	1

TITLE TELESCOPE VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (1 OF 3)

PLATE NO.			PART NO.
D13.07	**SIMON AERIALS INC.**	REV. 26 JUL., 1994	



TITLE TELESCOPE VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (1 OF 3)

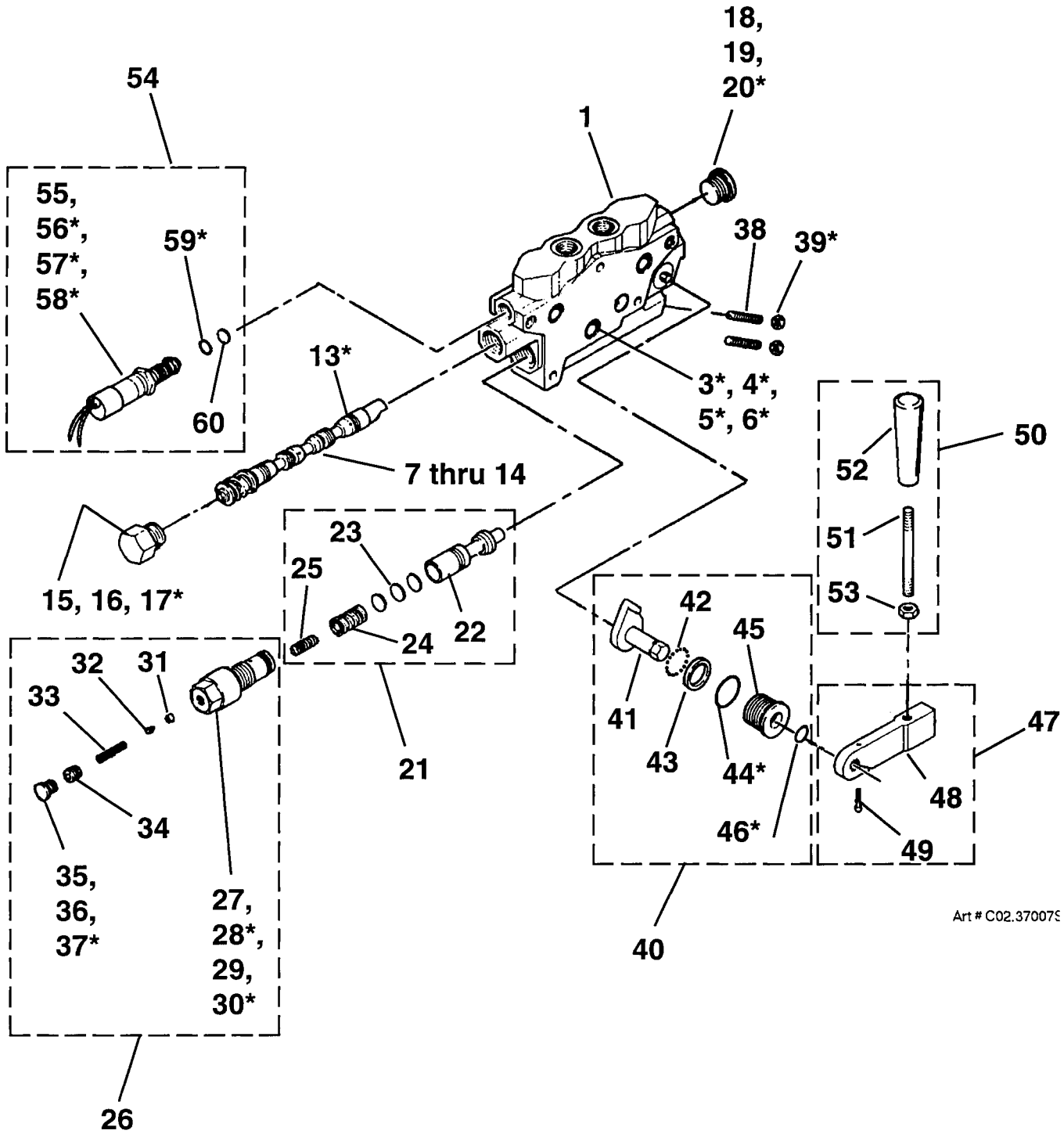
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.07

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
21			SPOOL KIT, COMPENSATOR	1
	Call Simon		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
22			SPOOL, COMPENSATOR	1
23			SHIM (.025" [.635 mm])	3
			SHIM (.008" [.203 mm])	3
			SHIM (.003" [.076 mm])	3
24			SPRING, COMPENSATOR (outer)	1
25			SPRING, COMPENSATOR (inner,	
			needed for 10 Gal [37.8 Liters]/ Min flow or greater)	1
26			CARTRIDGE KIT, PRESSURE LIMITER	1
	01-211016		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
27			PLUG, RELIEF	1
28		*	"O"-RING	1
29			RING, BACKUP	1
30		*	"O"-RING	1
31			SEAT	1
32			POPPET, RELIEF	1
33			SPRING, RELIEF	1
34			SCREW, ADJUSTMENT	1
35			PLUG, HEX	1
36			PLUG	1
37		*	"O"-RING	1
38			SET SCREW	2
	01-211010		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
39		*	NUT, SEAL	2
	01-211011		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
40			HANDLE SHAFT KIT	1
	01-211008		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
41			LINK, SHAFT	1
42			BALL (Steel)	17
43			RETAINER, BEARING	1
44		*	"O"-RING	1
45			PLUG, OVERRIDE	1
46		*	"O"-RING	1

TITLE TELESCOPE VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (2 OF 3)

PLATE NO.			PART NO.
D13.07	**SIMON AERIALS INC.**	REV. 26 JUL., 1994	



TITLE TELESCOPE VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (2 OF 3)

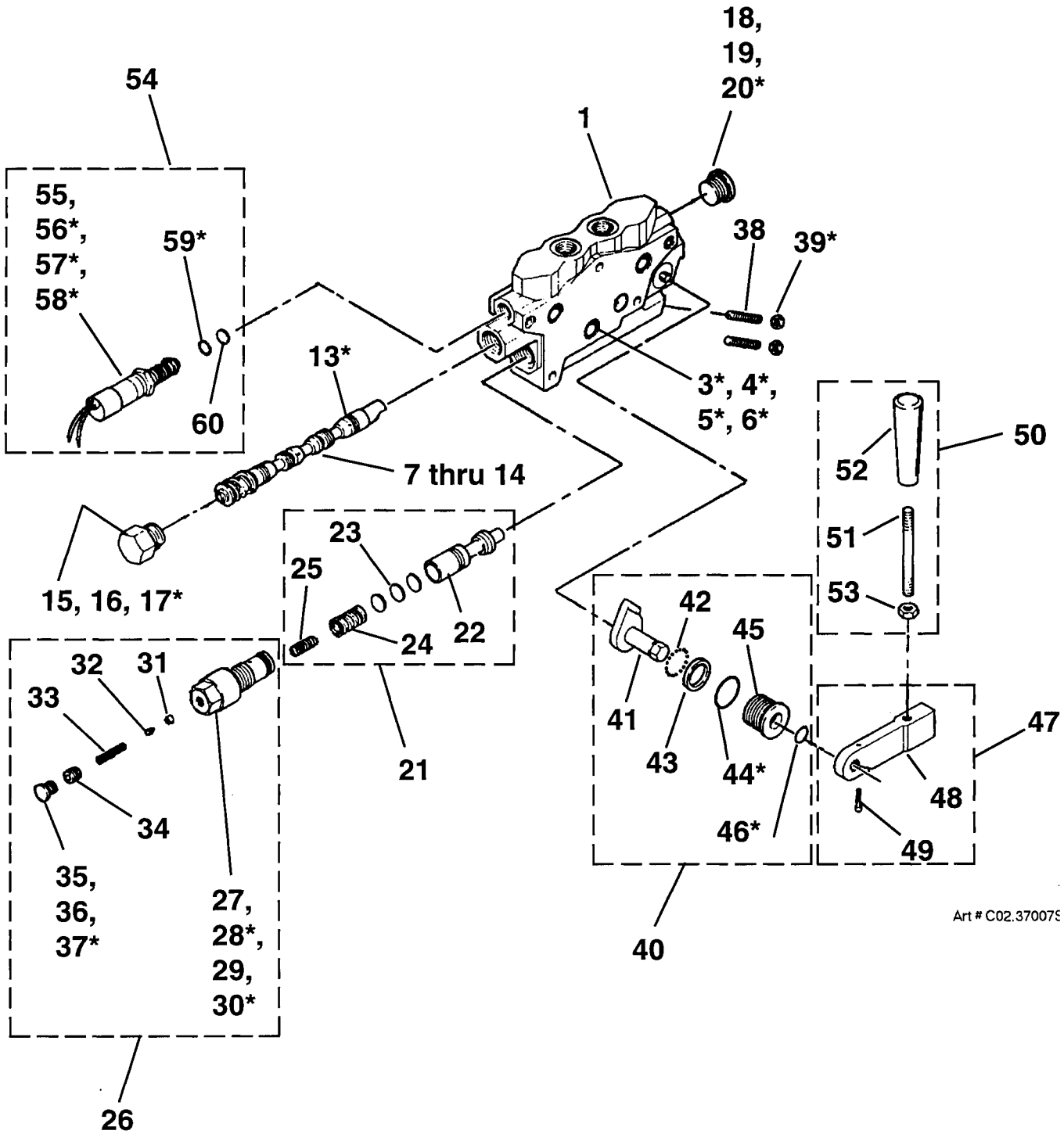
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.07

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
47			OPERATOR LINKAGE KIT (fixed)	1
	01-211014		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
48			ADAPTER, HANDLE	1
49			CAP SCREW	1
50			HANDLE KIT	1
	01-211003		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
51			ROD, HANDLE	1
52			KNOB	1
53			NUT, JAM	1
54			SOLENOID KIT (12 Volt Pulsar, with Weatherpac connector)	1
	01-211001		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
55			SOLENOID, PULSAR (12 Volt)	1
56		*	"O"-RING	1
57		*	SCREEN, SOLENOID FILTER	1
58		*	"O"-RING (special)	2
59		*	"O"-RING	2
60			PLATE, ORIFICE	1

TITLE TELESCOPE VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (3 OF 3)

PLATE NO.			PART NO.
D13.07	**SIMON AERIALS INC.**	REV. 26 JUL., 1994	



TITLE TELESCOPE VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (3 OF 3)

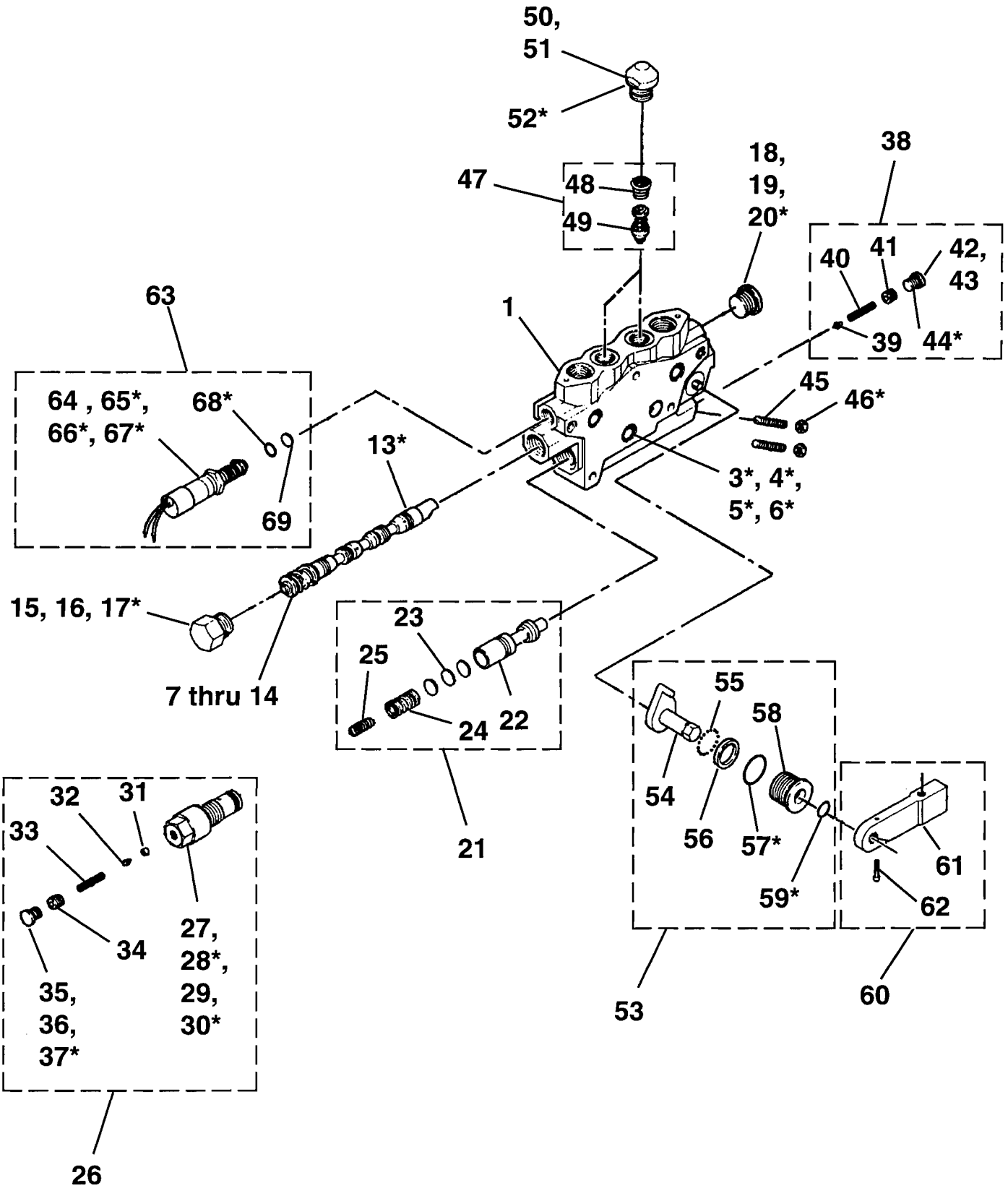
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.07

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			NOTE: When ordering valve sections or components, please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate.	
			STEER VALVE SECTION	1
	Call Simon		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
1			HOUSING, STEER VALVE SECTION	1
2			SEAL KIT, WORK SEGMENT	1
	01-211004		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
			SEAL KIT, WORK SEGMENT . . . includes;	
3			BALL (for housing cross port)	1
4			"O"-RING (for housing cross port)	1
5			"O"-RING (for housing cross port)	2
6			"O"-RING (for housing cross port)	3
			plus all items below marked with an asterisk (*)	
7			SPOOL KIT, STEER VALVE	1
	Call Simon		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
8			SPOOL	1
9			RING, RETAINING	1
10			GUIDE, SPRING	2
11			SPRING, CENTERING	1
12			SHIM	1
13		*	"O"-RING	1
14			HOOK, OVERRIDE	1
15			PLUG, HEX	1
	01-211013		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
16			PLUG	1
17		*	"O"-RING	1
18			PLUG, SOCKET	1
	Call Simon		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
19			PLUG	1
20		*	"O"-RING	1

TITLE STEER VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (1 OF 3)

PLATE NO.			PART NO.
D13.08	**SIMON AERIALS INC.**	REV. 26 JUL., 1994	



TITLE STEER VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (1 OF 3)

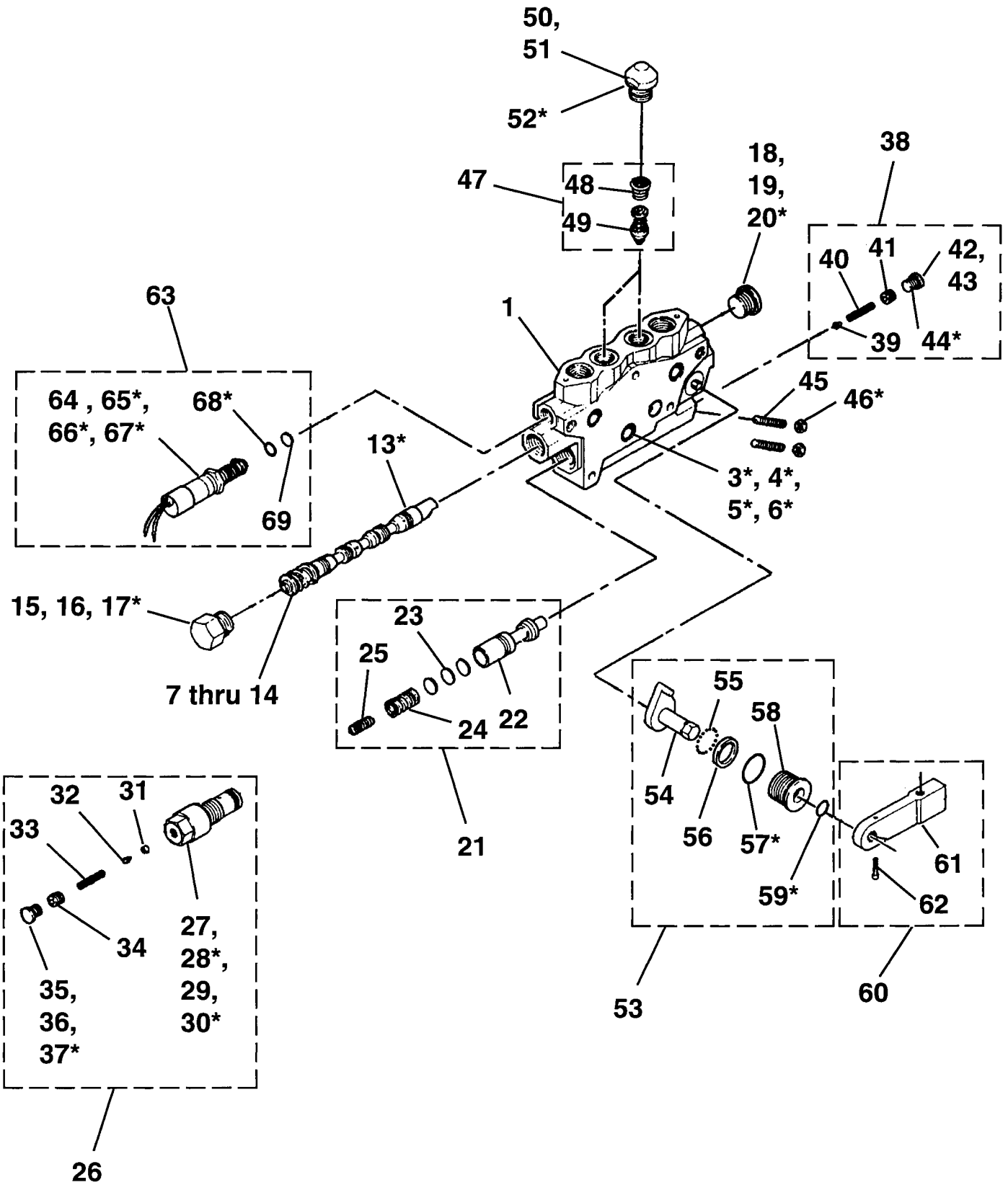
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.08

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
21			SPOOL KIT, COMPENSATOR	1
	01-211012		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
22			SPOOL, COMPENSATOR	1
23			SHIM (.025" [.635 mm])	3
			SHIM (.008" [.203 mm])	3
			SHIM (.003" [.076 mm])	3
24			SPRING, COMPENSATOR (outer)	1
25			SPRING, COMPENSATOR (inner,	
			needed for 10 Gal [37.8 Liters]/ Min flow or greater)	1
26			CARTRIDGE KIT, PRESSURE LIMITER	1
	01-211006		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
27			PLUG, RELIEF	1
28		*	"O"-RING	1
29			RING, BACKUP	1
30		*	"O"-RING	1
31			SEAT	1
32			POPPET, RELIEF	1
33			SPRING, RELIEF	1
34			SCREW, ADJUSTMENT	1
35			PLUG, HEX	1
36			PLUG	1
37		*	"O"-RING	1
38			PRESSURE LIMITER KIT	1
	01-211005		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
39			POPPET, PRESSURE LIMITER	1
40			SPRING, PRESSURE LIMITER	1
41			SCREW, ADJUSTMENT	1
42			PLUG, SOCKET HEAD	1
43			PLUG	1
44		*	"O"-RING	1
45			SET SCREW	2
	01-211010		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
46		*	NUT, SEAL	2
	01-211011		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	

TITLE STEER VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (2 OF 3)

PLATE NO.			PART NO.
D13.08	**SIMON AERIALS INC.**	REV. 26 JUL., 1994	



TITLE STEER VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (2 OF 3)

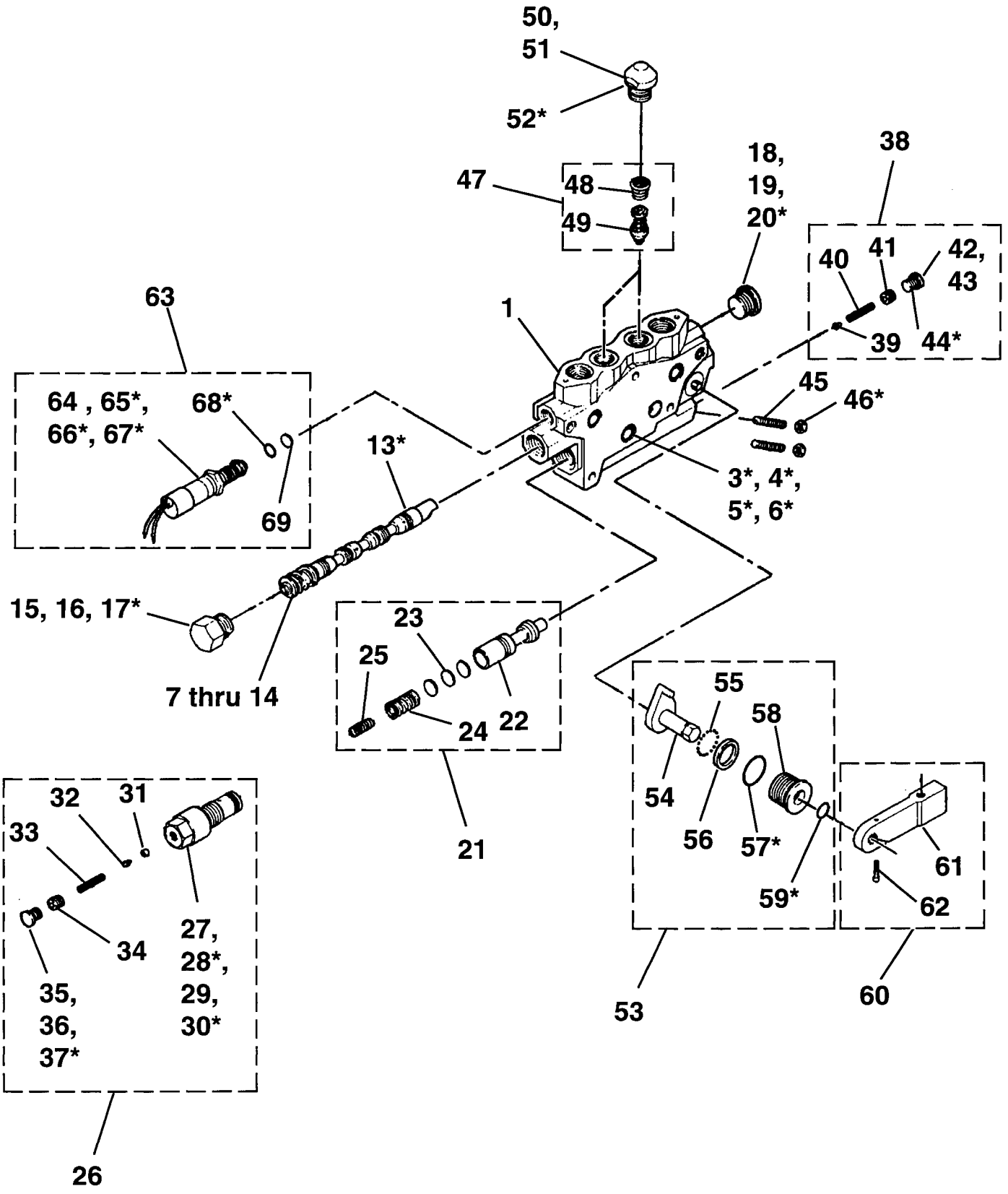
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.08

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
47			RELIEF KIT (with anti-cavitation valve)	2
	01-211007		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
48			CARTRIDGE ASSEMBLY	1
49			SPRING	1
50			PLUG, WORK PORT	1
	Call Simon		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
51			PLUG	1
52		*	"O"-RING	1
53			HANDLE SHAFT KIT	1
	01-211008		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
54			LINK, SHAFT	1
55			BALL (Steel)	17
56			RETAINER, BEARING	1
57		*	"O"-RING	1
58			PLUG, OVERRIDE	1
59		*	"O"-RING	1
60			OPERATOR LINKAGE KIT (fixed)	1
	01-211014		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
61			ADAPTER, HANDLE	1
62			CAP SCREW	1
63			SOLENOID KIT (12 Volt Pulsar, with Weatherpac connector)	1
	01-211001		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
64			SOLENOID, PULSAR (12 Volt)	1
65		*	"O"-RING	1
66		*	SCREEN, SOLENOID FILTER	1
67		*	"O"-RING (special)	2
68		*	"O"-RING	2
69			PLATE, ORIFICE	1

TITLE STEER VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (3 OF 3)

PLATE NO.			PART NO.
D13.08	**SIMON AERIALS INC.**	REV. 26 JUL., 1994	



TITLE STEER VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (3 OF 3)

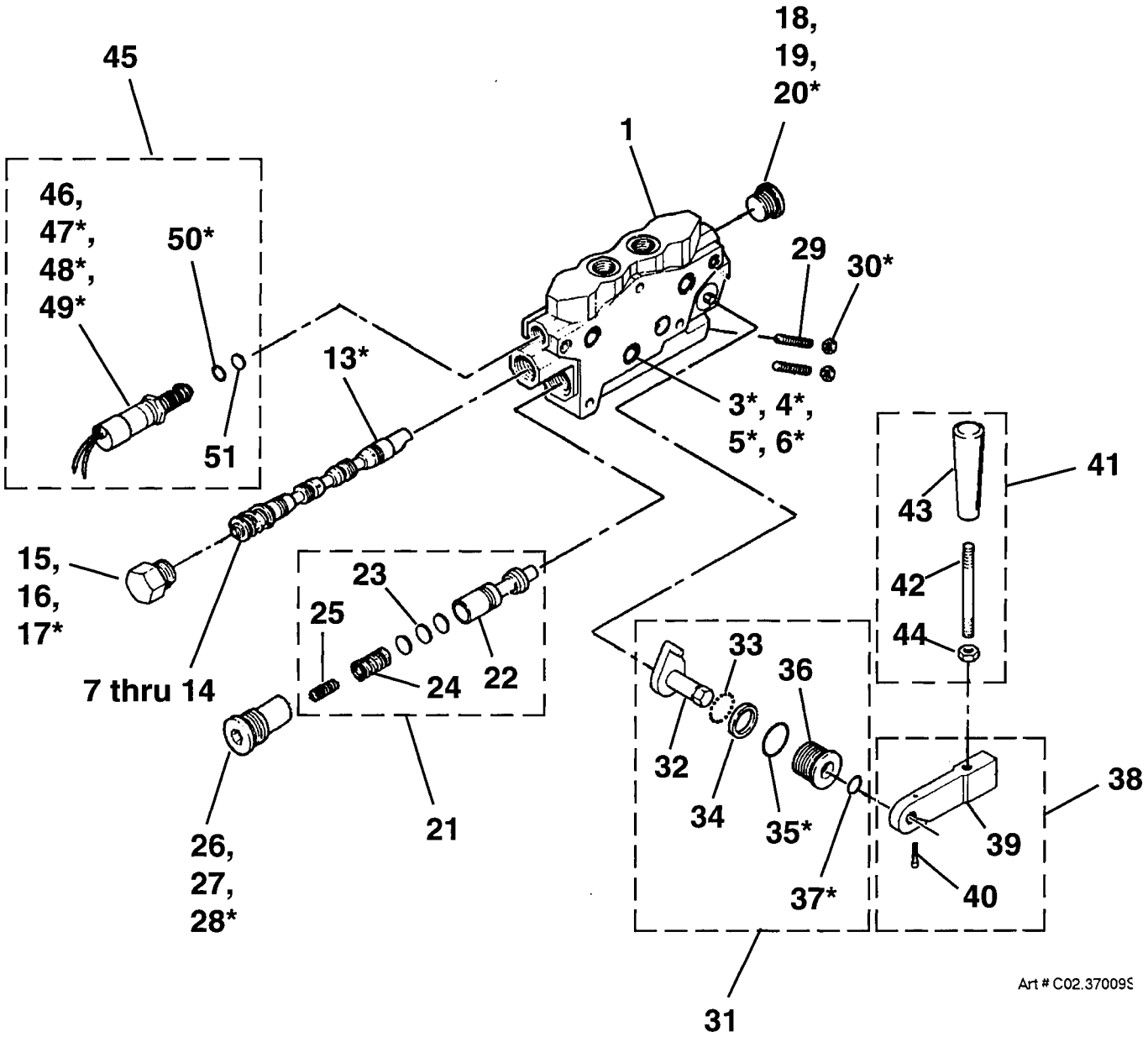
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.08

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			BOOM RAISE/ LOWER VALVE SECTION	1
	01-231205		for Model RP 66 **main** boom	
	01-231203		for Model RP 66 **jib** boom	
	Call Simon		for all other models, please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate.	
1			HOUSING, BOOM RAISE/ LOWER VALVE SECTION	1
2			SEAL KIT, WORK SEGMENT . . . includes;	1
	01-211004		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
3			BALL (for housing cross port)	1
4			"O"-RING (for housing cross port)	1
5			"O"-RING (for housing cross port)	2
6			"O"-RING (for housing cross port)	3
			plus all items below marked with an asterisk (*)	
7			SPOOL KIT, BOOM RAISE/ LOWER VALVE	1
	01-210901		For Model MP 95 or MP 110 (6.5 Gal/ Min [24.6 Liter/ Min])	1
	Call Simon		For all other models, please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate. If for **RP** Series, also specify if for **main** or **jib** boom.	
8			SPOOL	1
9			RING, RETAINING	1
10			GUIDE, SPRING	2
11			SPRING, CENTERING	1
12			SHIM	1
13		*	"O"-RING	1
14			HOOK, OVERRIDE	1
15			PLUG, HEX	1
	01-211013		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
16			PLUG	1
17		*	"O"-RING	1
18			PLUG, SOCKET	1
	01-211009		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
19			PLUG	1
20		*	"O"-RING	1

TITLE BOOM VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (1 OF 3)

PLATE NO.	SIMON AERIALS INC.	PART NO.
D13.09	REV. 26 JUL., 1994	



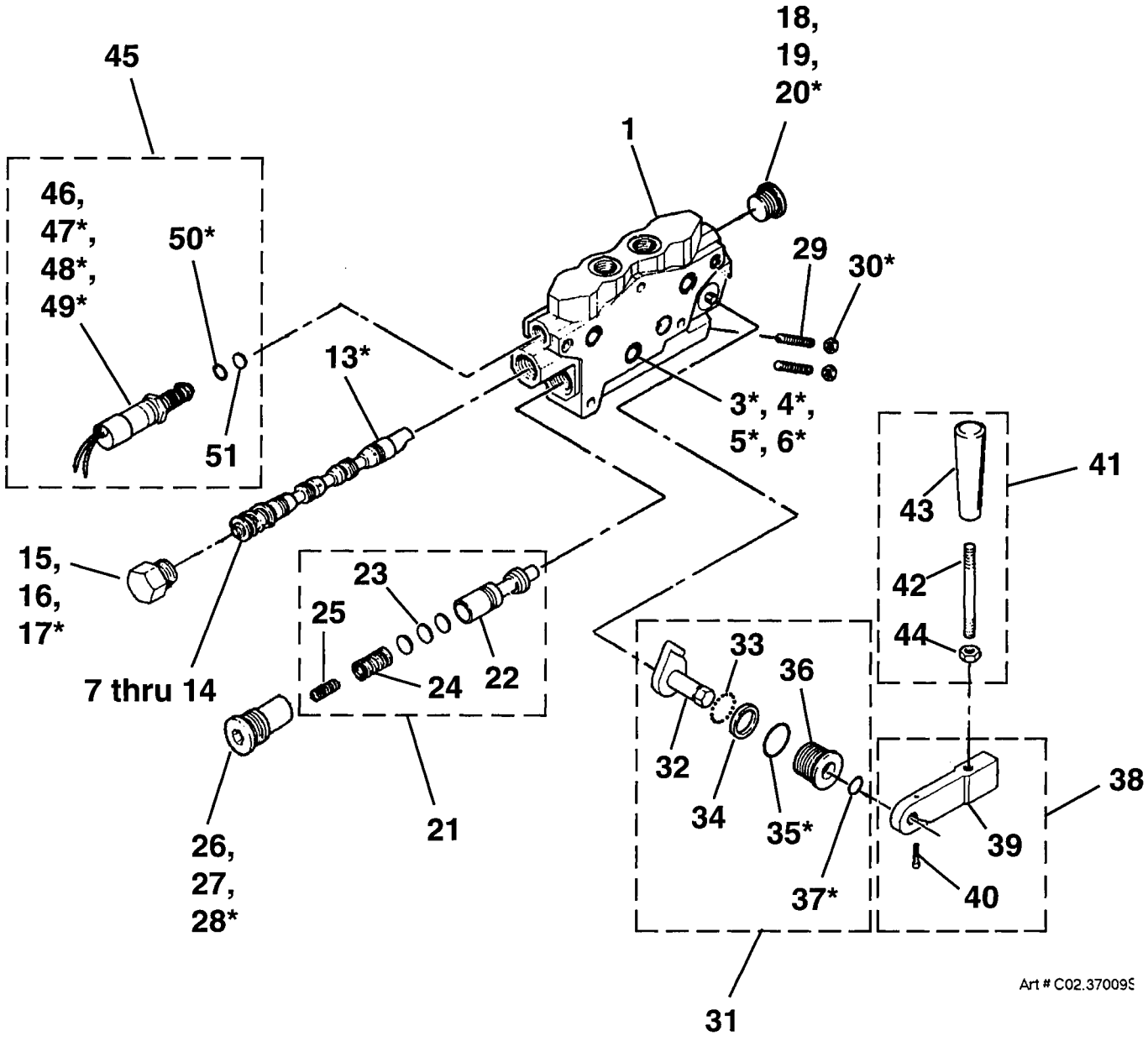
TITLE	BOOM VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (1 OF 3)		
SIMON AERIALS INC.	REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.09

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
21			SPOOL KIT, COMPENSATOR	1
	01-211012		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
22			SPOOL, COMPENSATOR	1
23			SHIM (.025" [.635 mm])	3
			SHIM (.008" [.203 mm])	3
			SHIM (.003" [.076 mm])	3
24			SPRING, COMPENSATOR (outer)	1
25			SPRING, COMPENSATOR (inner,	
			needed for 10 GPM [37.8 LPM] flow or greater)	1
26			PLUG, COMPENSATOR	1
	01-211015		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
27			PLUG	1
28		*	"O"-RING	1
29			SET SCREW	2
	01-211010		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
30		*	NUT, SEAL	2
	01-211011		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
31			HANDLE SHAFT KIT	1
	01-211008		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
32			LINK, SHAFT	1
33			BALL (Steel)	17
34			RETAINER, BEARING	1
35		*	"O"-RING	1
36			PLUG, OVERRIDE	1
37		*	"O"-RING	1
38			OPERATOR LINKAGE KIT (fixed)	1
	01-211014		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
39			ADAPTER, HANDLE	1
40			CAP SCREW	1
41			HANDLE KIT	1
	01-211003		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
42			ROD, HANDLE	1
43			KNOB	1
44			NUT, JAM	1

TITLE BOOM VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (2 OF 3)

PLATE NO.			PART NO.
D13.09	**SIMON AERIALS INC.**	REV. 26 JUL., 1994	



TITLE BOOM VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (2 OF 3)

SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.09

PARTS LIST

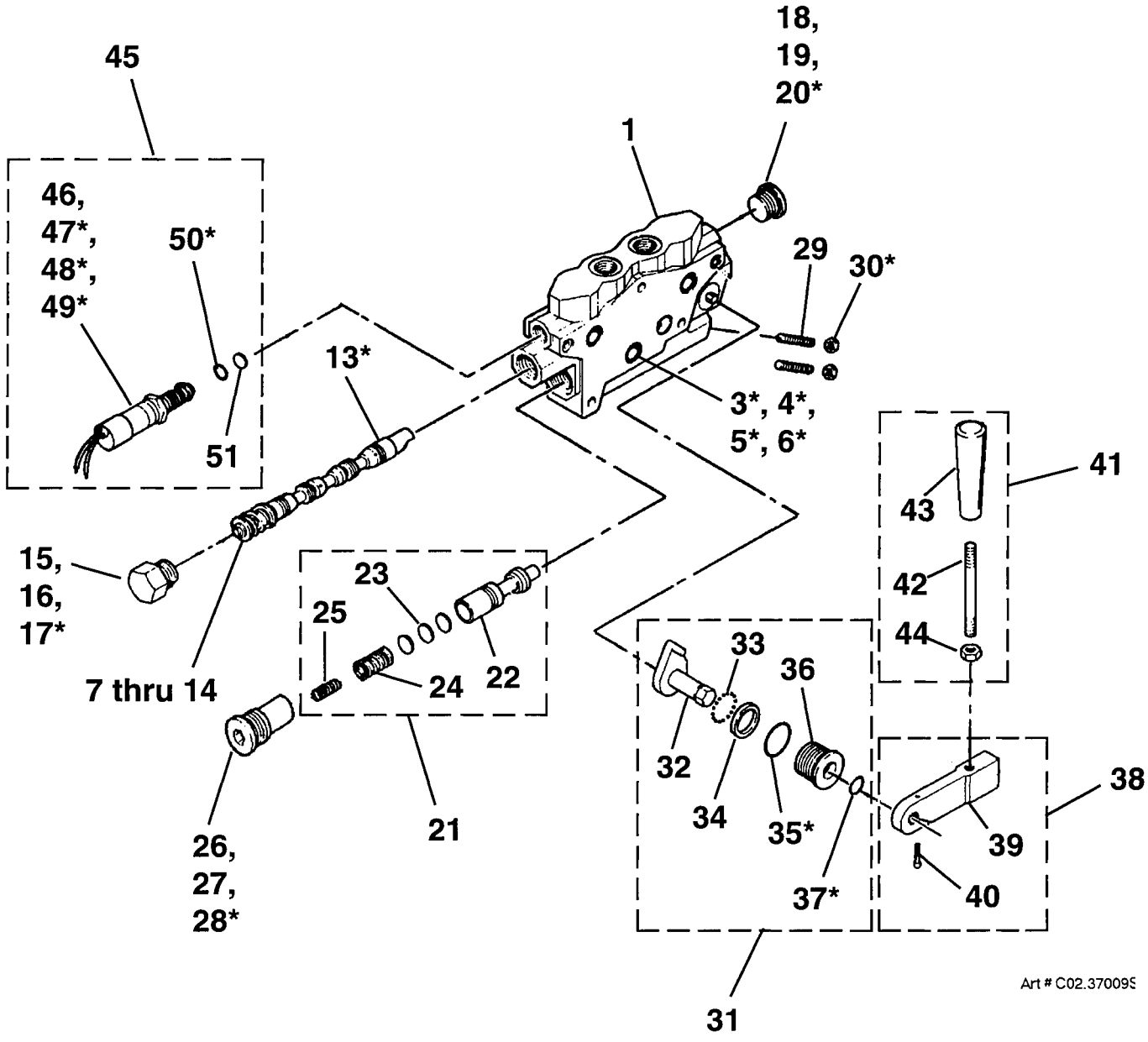
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
45	01-211001 Call Simon		SOLENOID KIT (12 Volt Pulsar, with Weatherpac connector) for **first type** valve bank assemblies (MP series only) for **second type MP** and **all RP** valve bank assemblies	1
46			SOLENOID, PULSAR (12 Volt)	1
47		*	"O"-RING	1
48		*	SCREEN, SOLENOID FILTER	1
49		*	"O"-RING (special)	2
50		*	"O"-RING	2
51			PLATE, ORIFICE	1

TITLE BOOM VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (3 OF 3)

PLATE NO. D13.09

SIMON AERIALS INC. REV. 26 JUL., 1994

PART NO.



TITLE BOOM VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (3 OF 3)

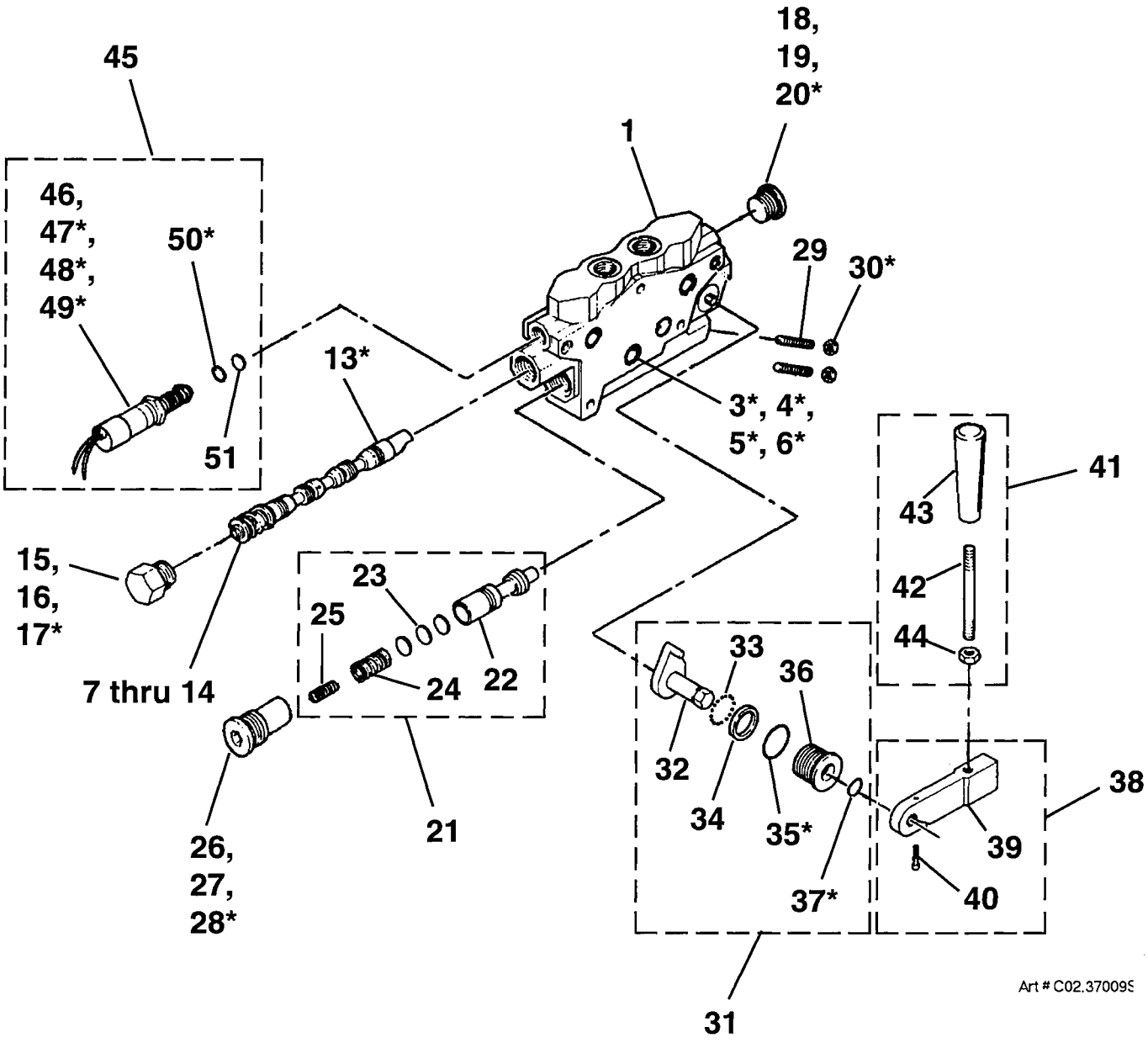
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.09

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SWING VALVE SECTION	1
	01-231206		for Model RP 66	
	Call Simon		for all other models, please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate.	
1			HOUSING, SWING VALVE SECTION	1
2			SEAL KIT, WORK SEGMENT . . . includes;	1
	01-211004		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
3			BALL (for housing cross port)	1
4			"O"-RING (for housing cross port)	1
5			"O"-RING (for housing cross port)	2
6			"O"-RING (for housing cross port)	3
			plus all items below marked with an asterisk (*)	
7	Call Simon		SPOOL KIT, SWING VALVE	1
			Please specify Model, Machine Serial Number and Part Number stamped on Valve nameplate.	
8			SPOOL	1
9			RING, RETAINING	1
10			GUIDE, SPRING	2
11			SPRING, CENTERING	1
12			SHIM	1
13		*	"O"-RING	1
14			HOOK, OVERRIDE	1
15			PLUG, HEX	1
	01-211013		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
16			PLUG	1
17		*	"O"-RING	1
18			PLUG, SOCKET	1
	01-211009		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
19			PLUG	1
20		*	"O"-RING	1

TITLE SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (1 OF 3)

PLATE NO.		PART NO.
D13.10	**SIMON AERIALS INC.** REV. 26 JUL., 1994	



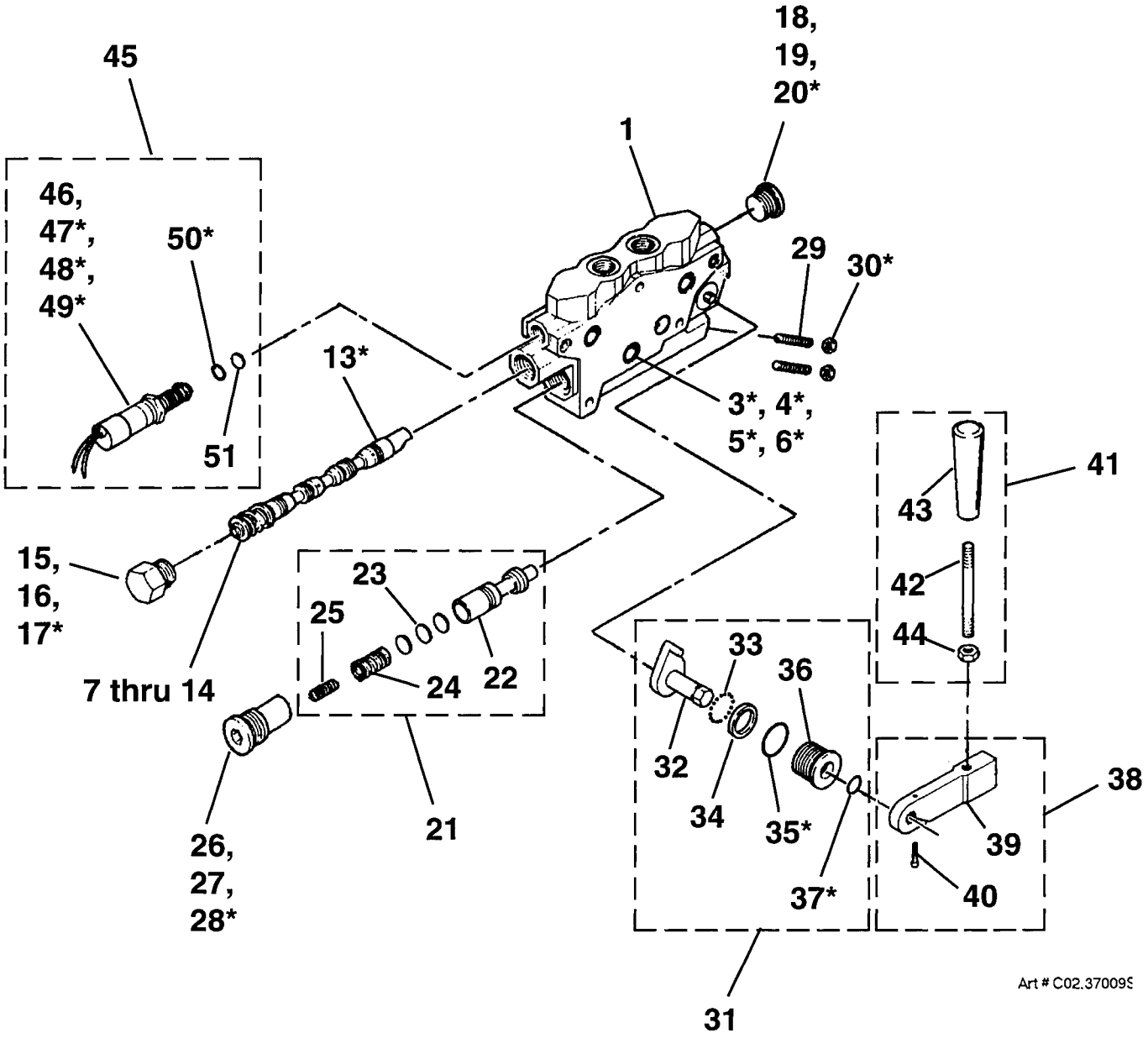
TITLE	SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (1 OF 3)		
SIMON AERIALS INC.	REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.10

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
21			SPOOL KIT, COMPENSATOR	1
	01-211012		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
22			SPOOL, COMPENSATOR	1
23			SHIM (.025" [.635 mm])	3
			SHIM (.008" [.203 mm])	3
			SHIM (.003" [.076 mm])	3
24			SPRING, COMPENSATOR (outer)	1
25			SPRING, COMPENSATOR (inner,	
			needed for 10 Gal [37.8 Liter]/ Min flow or greater)	1
26			PLUG, COMPENSATOR	1
	01-211015		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
27			PLUG	1
28		*	"O"-RING	1
29			SET SCREW	2
	01-211010		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
30		*	NUT, SEAL	2
	01-211011		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
31			HANDLE SHAFT KIT	1
	01-211008		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
32			LINK, SHAFT	1
33			BALL (Steel)	17
34			RETAINER, BEARING	1
35		*	"O"-RING	1
36			PLUG, OVERRIDE	1
37		*	"O"-RING	1
38			OPERATOR LINKAGE KIT (fixed)	1
	01-211014		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
39			ADAPTER, HANDLE	1
40			CAP SCREW	1
41			HANDLE KIT	1
	01-211003		for **first type** valve bank assemblies (MP series only)	
	Call Simon		for **second type MP** and **all RP** valve bank assemblies	
42			ROD, HANDLE	1
43			KNOB	1
44			NUT, JAM	1

TITLE SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (2 OF 3)

PLATE NO.			PART NO.
D13.10	**SIMON AERIALS INC.**	REV. 26 JUL., 1994	



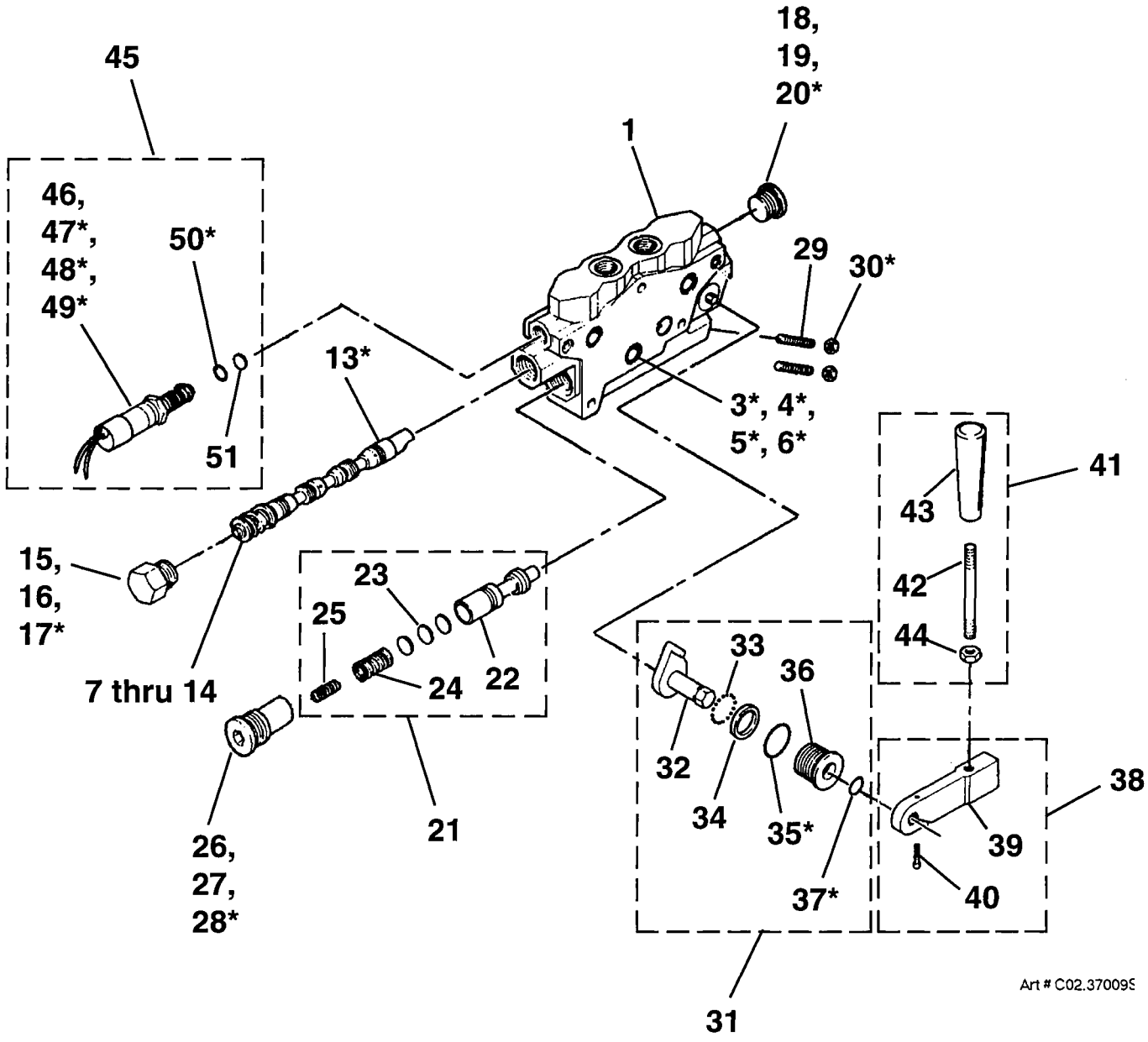
TITLE	SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (2 OF 3)		
SIMON AERIALS INC.	REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.10

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
45	01-211001 Call Simon		SOLENOID KIT (12 Volt Pulsar, with Weatherpac connector) for **first type** valve bank assemblies (MP series only) for **second type MP** and **all RP** valve bank assemblies	1
46			SOLENOID, PULSAR (12 Volt)	1
47		*	"O"-RING	1
48		*	SCREEN, SOLENOID FILTER	1
49		*	"O"-RING (special)	2
50		*	"O"-RING	2
51			PLATE, ORIFICE	1

TITLE SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (3 OF 3)

PLATE NO. D13.10 | **SIMON AERIALS INC.** REV. 26 JUL., 1994 | PART NO.

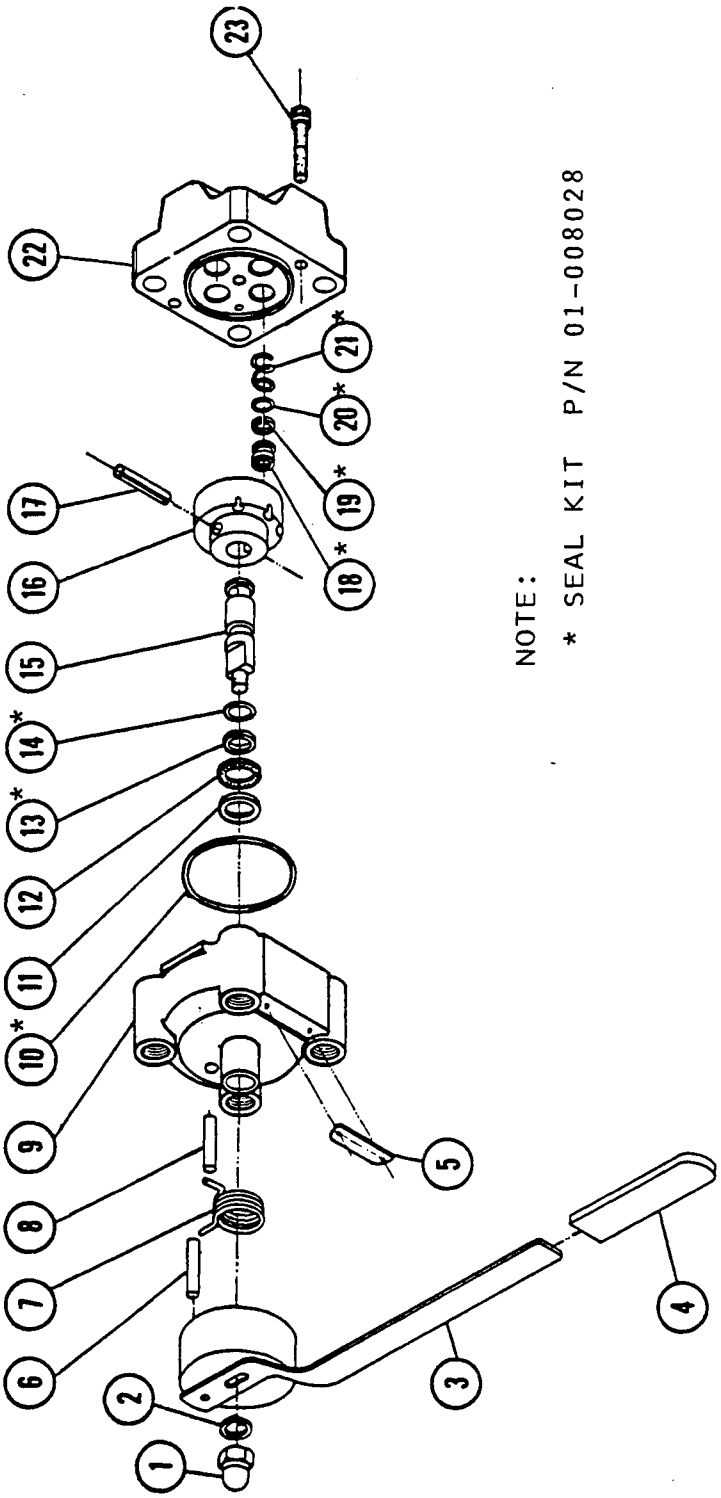


TITLE	SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (3 OF 3)		
SIMON AERIALS INC. REV. 26 JUL., 1994		PART NO.	PLATE NO. D13.10

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			ACORN NUT	1
2			LOCKWASHER	1
3	01-008001		HANDLE	1
4	01-008002		HANDLE GRIP	1
5			NAMEPLATE	1
6			HUB DOWEL PIN	1
7	01-008003		TORSION SPRING	1
8			HOUSING ROLL PIN	1
9			HOUSING	1
10*			HOUSING 'O' RING	1
11	01-008007		THRUST WASHER	1
12	01-008006		THRUST BEARING	1
13*			SHAFT BACKUP RING	1
14*			SHAFT 'O' RING	1
15	01-008004		SHAFT	1
16	01-008005		ROTOR	1
17			ROTOR ROLL PIN	1
18*			SEAL	3
19*			BACK-UP RING	3
20*	01-008006		'O' RING	3
21*			SPRING	3
22			BODY	1
23			CAP SCREW	4
*	1-008028		SEAL KIT	1

DESCRIPTION	PART NO.
4-WAY MANUAL VALVE	01-008000



NOTE:
* SEAL KIT P/N 01-008028

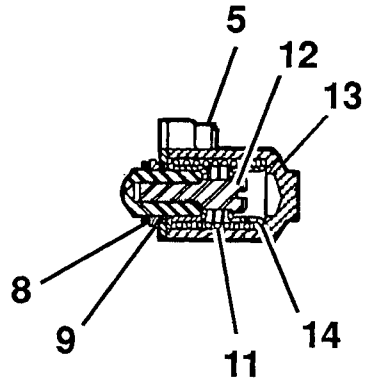
1283/0677

DESCRIPTION	PART NO.
4-WAY MANUAL VALVE	01-008000

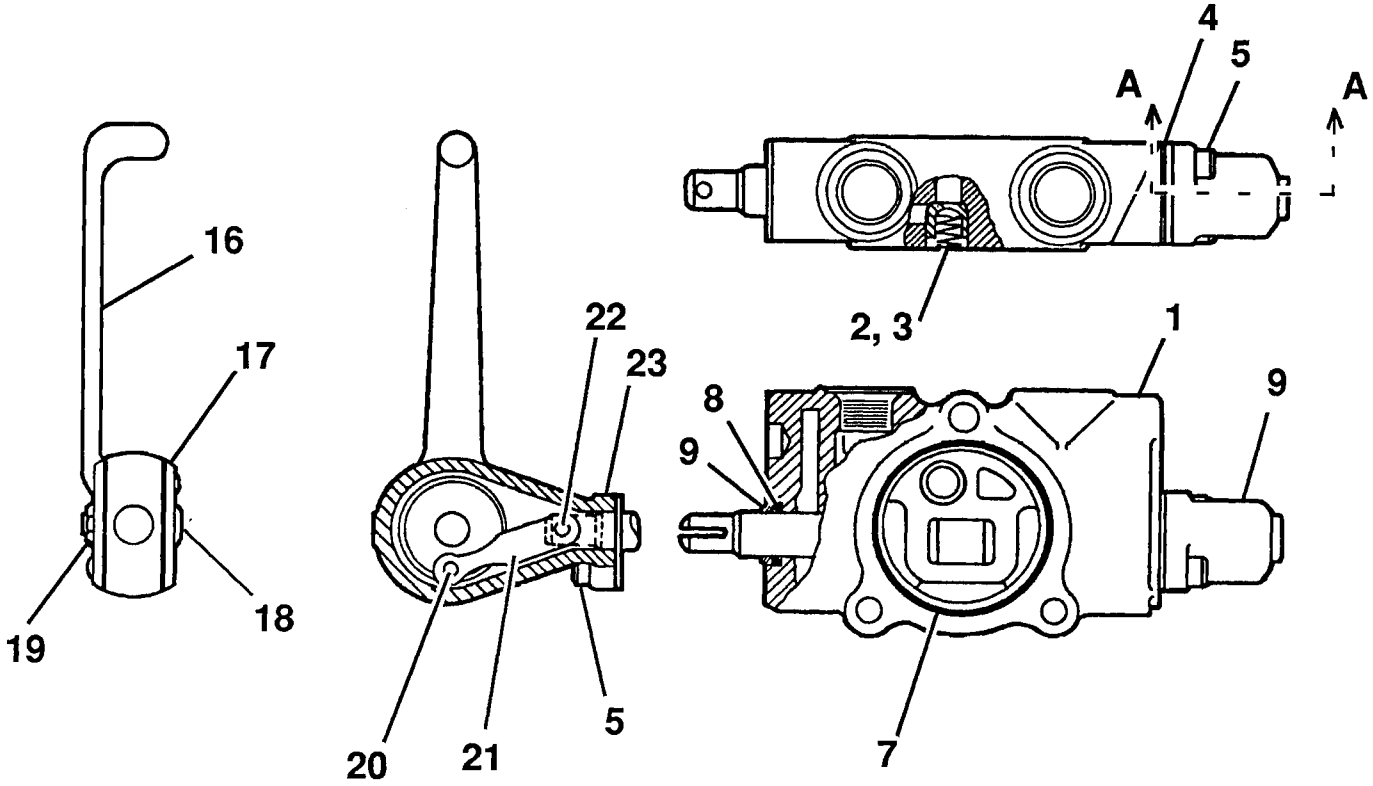
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-067701		VALVE ASSEMBLY, 4-WAY MANUAL **Important**: Part No. 01-067701 includes items 1 through 14 only. To get a complete valve assembly you must order 01-067701 and 01-067702 (item 15).	1
2			POPPET, CHECK VALVE	1
3			SPRING, CHECK VALVE POPPET	1
4			PLATE, SEAL	2
5			CAP SCREW	4
6	01-067708		SEAL KIT, 4-WAY MANUAL VALVE ASSEMBLY	1
7	01-067707		"O"-RING (section seal)	1
8			"O"-RING (plunger seal)	2
9			SEAL, WIPER (molded)	2
10	01-067703		END CAP ASSEMBLY, PLUNGER	1
11			SPRING	1
12			SHOULDER SCREW	1
13			HOUSING	1
14			CAP, SPRING	2
			Note: The following items are not part of Valve Assembly 01-067701:	
15	01-067702		LEVER ASSEMBLY	1
16	01-067709		LEVER	1
17			HUB	2
18			BOLT	1
19			NUT	1
20			DOWEL PIN	1
21			LINK	1
22			ROLL PIN	1
23			BRACKET, LEVER	1

TITLE	4-WAY MANUAL VALVE, MOTORING SPOOL			
PLATE NO.	D14.02	**SIMON AERIALS INC.**	REV. 26 APR., 1993	PART NO. 01-067701



Section "A-A"



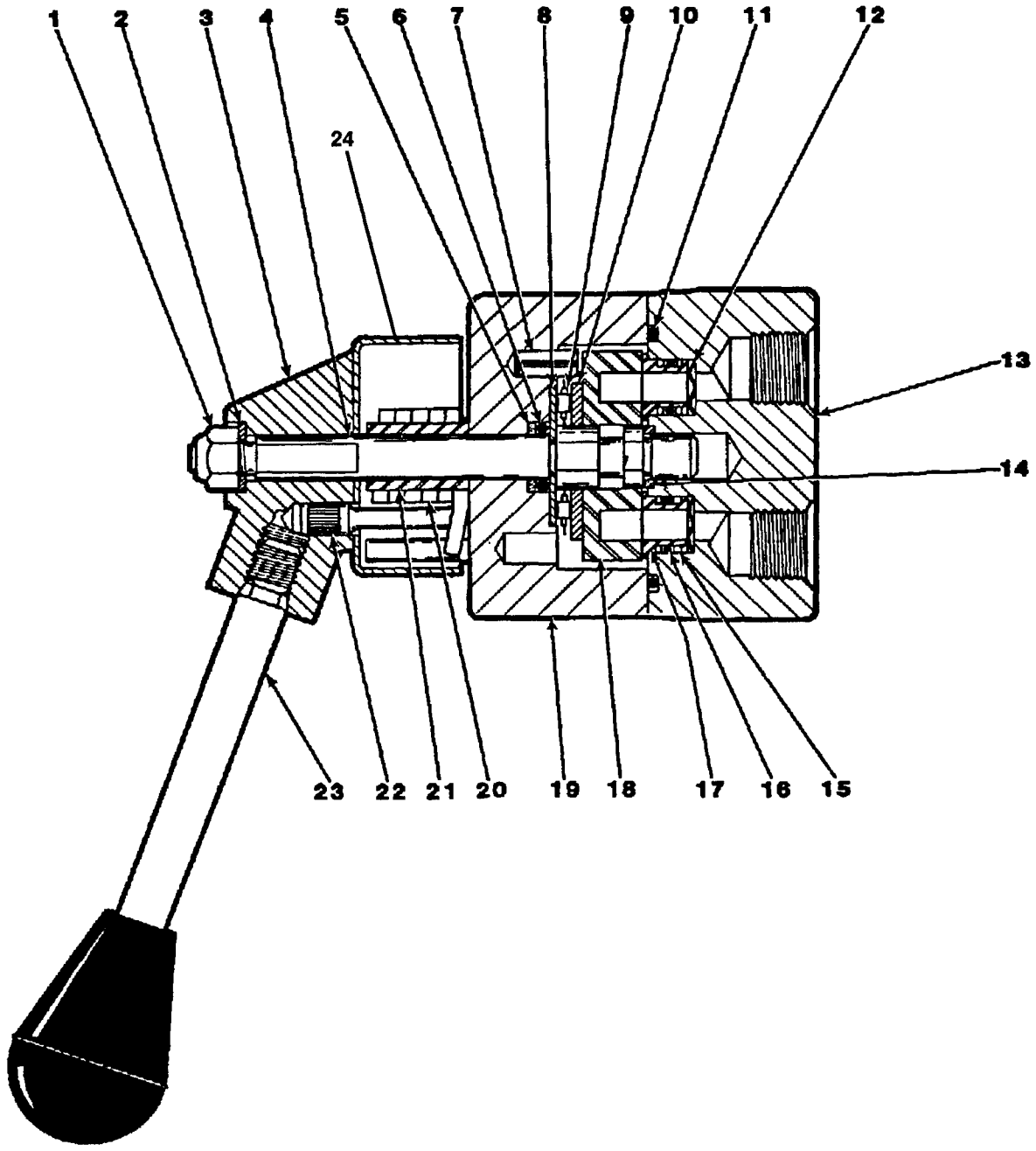
TITLE	4-WAY MANUAL VALVE, MOTORING SPOOL		
SIMON AERIALS INC. REV. 26 APR., 1993	PART NO. 01-067701	PLATE NO. D14.02	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-069802		NUT, LOCK (1/4"-28)	1
2	01-069803		WASHER, HANDLE	1
3	01-069801		HANDLE ASSEMBLY (includes Handle, item 23)	1
4	01-069804		SHAFT, VALVE HANDLE	1
5	01-069805		RING, BACK-UP	1
6	01-069806		"O"-RING	1
7	01-069807		PIN, ROLL	2
8	01-069808		RACE, BEARING	1
9	01-069809		BEARING, THRUST	1
10	01-069810		PLATE, STOP	1
11	01-069811		"O"-RING	1
12	01-069812		SPRING, SEAL	
13	01-069901		BODY, VALVE	1
14	01-069814		WASHER, SHAFT	1
15	01-069815		RING, BACK-UP	4
16	01-069816		"O"-RING	2
17	01-069817		SEAL	2
18	01-069902		DISK ASSEMBLY	1
19	01-069819		CAP	1
20	01-069820		SPRING	1
21	01-069821		BUSHING	1
22	01-069822		PIN (5/16" diameter)	1
	01-069824		PIN (3/8" diameter)	1
23			HANDLE (comes with Handle Assembly, item 3)	1
24	01-069823		HUB ASSEMBLY	1

TITLE: 4-WAY MANUAL CONTROL VALVE

PLATE NO. D14.03 | **SIMON AERIALS INC.** REV. 26 APR., 1993 | PART NO. 01-069900



1086/1286

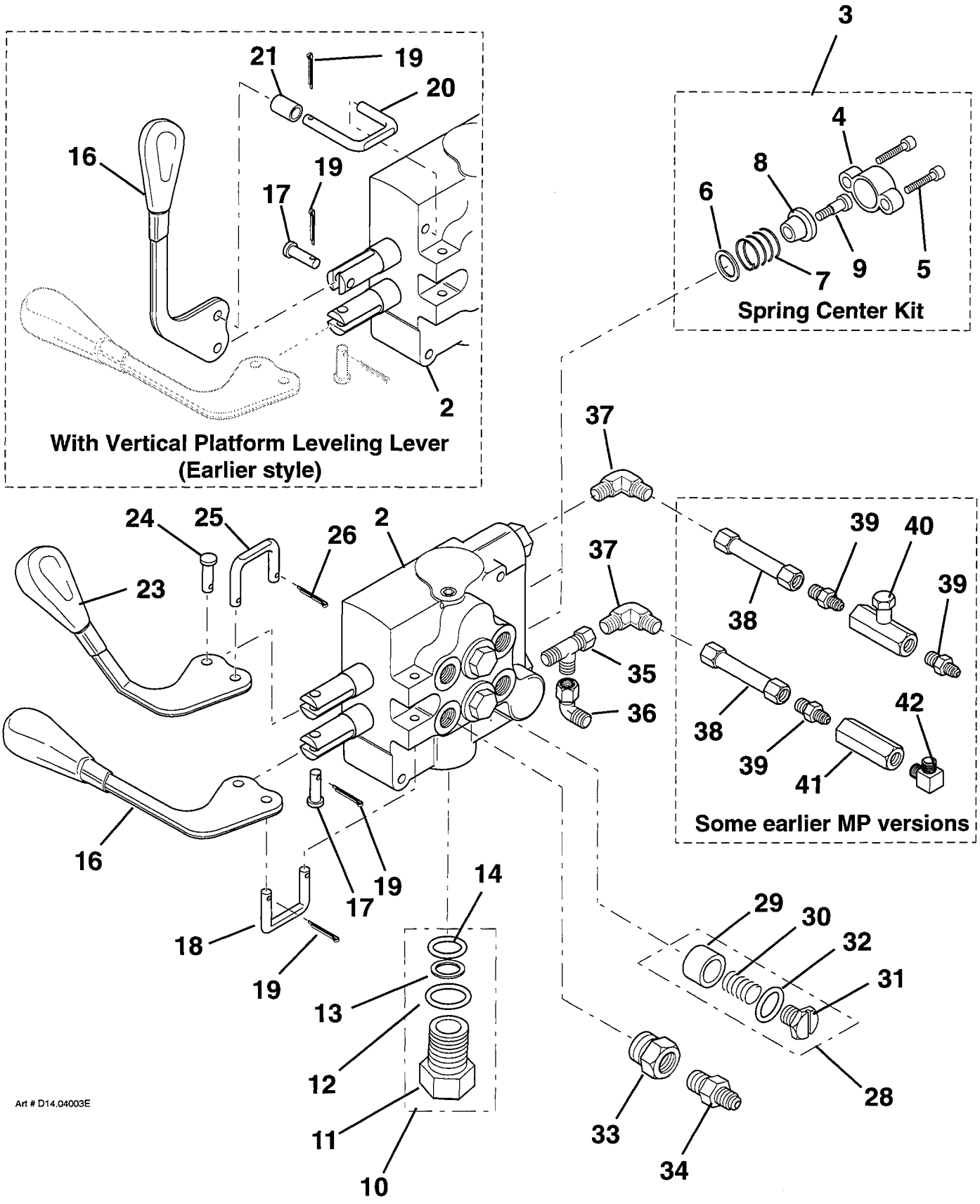
TITLE	4-WAY MANUAL CONTROL VALVE		
SIMON AERIALS INC. REV. 26 APR., 1993	PART NO. 01-069900	PLATE NO. D14.03	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			VALVE ASSEMBLY, PLATFORM ROTATE AND LEVEL	1
	352 4590		for MP Series **except MP 110**	
	352 4590		for RP "Reach Plus" **except RP 120**	
			for Model **MP 110, RP 120** "Reach Plus", or Trailblazer **40**:	
	353 0750		Early style (Platform leveling lever is **mounted vertically**)	
	353 1480		Later style (Platform leveling lever is **bent 45° upward**)	
	353 3920		for Trailblazer **60**	
1			VALVE, PLATFORM ROTATE AND LEVEL	
			(Modified two spool valve 01-207100)	1
	218 1260		Early style (Platform leveling lever **mounted vertically**)	
	230 0610		Later style (Platform leveling lever is **bent 45° upward**)	
2			SPOOL AND BODY ASSEMBLY	
3	01-207103		SPRING CENTER KIT	2
4			CAP, END	1
5			SCREW (with lock washer)	2
6			WASHER	1
7			SPRING, RETURN	1
8			SPACER	1
9			BOLT, SHOULDER	1
10			BUSHING KIT, POWER BEYOND	1
11			BUSHING, POWER BEYOND	1
12			"O"-RING	1
13			RING, BACKUP	1
14			"O"-RING	1
15	01-207102		HANDLE KIT (Straight handle)	A.R.
16	01-207105		HANDLE	1
17	01-098403		PIN, CLEVIS	1
18	01-207104		"C"-HOOK	1
19	01-207106		PIN, COTTER	3
20	218 0880		PIN, PIVOT (For earlier style platform leveling lever. Replaces "C"-hook in handle kit above.)	1
21	218 0900		SPACER, VALVE PIVOT PIN	
			(For earlier style vertical platform leveling lever)	1
22	01-207107		HANDLE KIT (45° angled handle, for later style platform leveling lever.)	1
23	01-207108		HANDLE	1
24	01-098403		PIN, CLEVIS	1
25	01-207104		"C"-HOOK	1
26	01-207106		PIN, COTTER	3

TITLE PLATFORM LEVEL AND ROTATE VALVE ASSEMBLY (PLATE 1 OF 2)

PLATE NO.		PART NO.
D14.04	**SIMON AERIALS INC.** REV. 29 NOV., 1995	



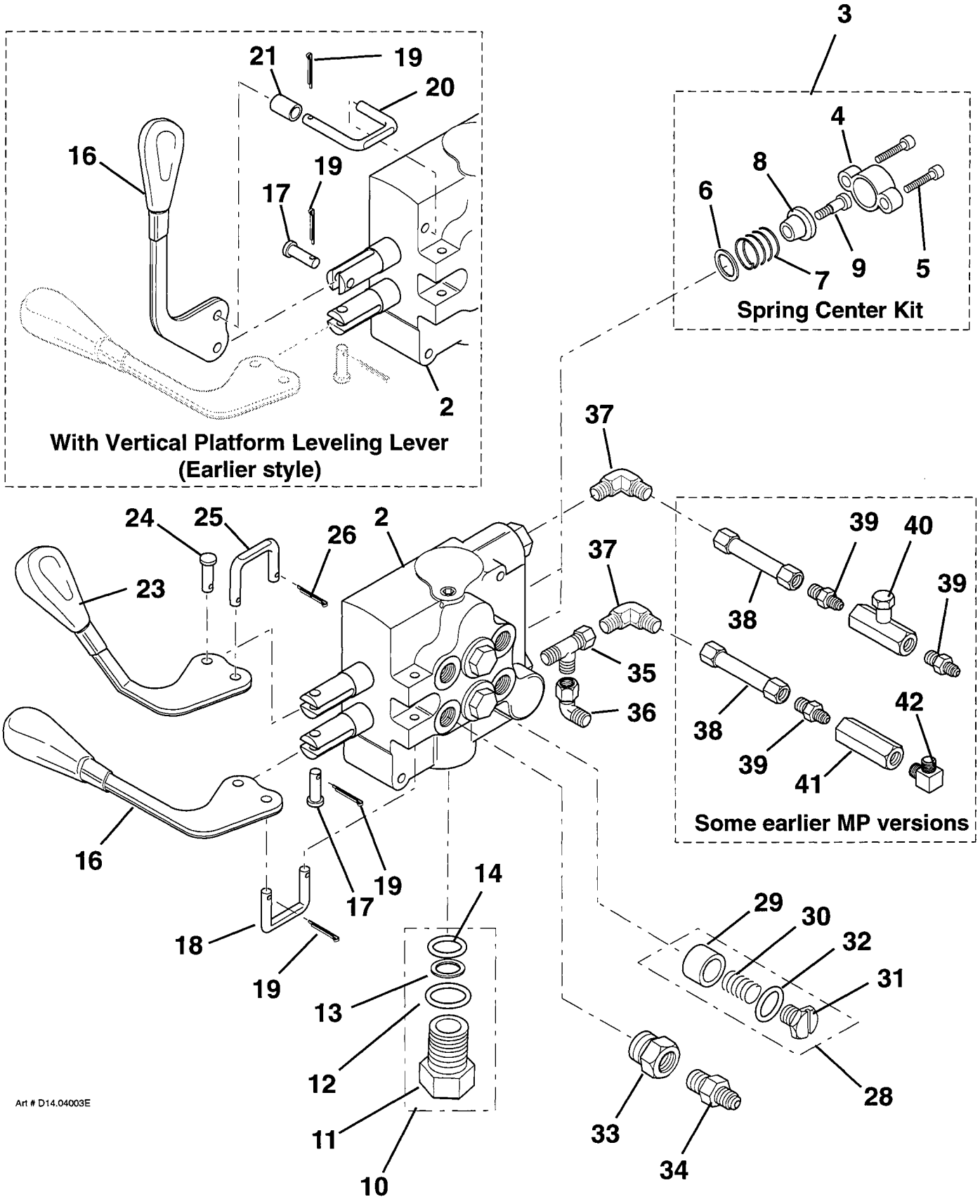
TITLE PLATFORM LEVEL AND ROTATE VALVE ASSEMBLY (PLATE 1 OF 2)

SIMON AERIALS INC. REV. 29 NOV., 1995	PART NO.	PLATE NO. D14.04

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items **are not** part of Valve assembly 218 1260 or 230 0610:	
27	01-207101		SEAL KIT	1
28			VALVE KIT, LOAD CHECK (used in some applications)	2
29			POPPET, LOAD CHECK	1
30			SPRING	1
31			PLUG, HEX HEAD	1
32			"O"-RING	
33			FITTING, ORIFICED (either of these may be fitted)	4
	218 9010		Modified **4-6** F5OX-S (Optional. Item 34 **is not** required.)	
	219 0800		Modified **4** F5OX-S (Optional. Item 34 **is also** required.)	
34	06-090300		REDUCER/ EXPANDER (6-4 F5OG5-S) (required with connector **219 0800**, Item 33 above)	4
35	06-054500		RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S) (for Assembly **353 3920 [Trailblazer 60]** only)	1
36	06-051500		90° ELBOW, SWIVEL NUT (6 C6X-S) (for Assembly **353 3920 [Trailblazer 60]** only)	1
37	06-044600		90° ELBOW, STRAIGHT THREAD (6 C5OX-S)	2
			Items 38 through 42 were used in some earlier MP Series applications:	
38	350 7867		TUBE ASSEMBLY	2
39	06-039800		CONNECTOR, STRAIGHT THREAD (6 F5OX-S)	3
40	01-018900		VALVE, FLOW CONTROL (#6 SAE ports)	1
41	01-020800		VALVE, POPPET CHECK (3 PSI)	1
42	06-044400		ELBOW, STRAIGHT THREAD (4-6 C5OX-S)	1
			Items 43 through 45 are used for mounting the valve assembly *in most applications:*	
43	07-003009		CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5)	2
44	07-062014		WASHER, FLAT (1/4")	4
45	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2

TITLE PLATFORM LEVEL AND ROTATE VALVE ASSEMBLY (PLATE 2 OF 2)



TITLE PLATFORM LEVEL AND ROTATE VALVE ASSEMBLY (PLATE 2 OF 2)

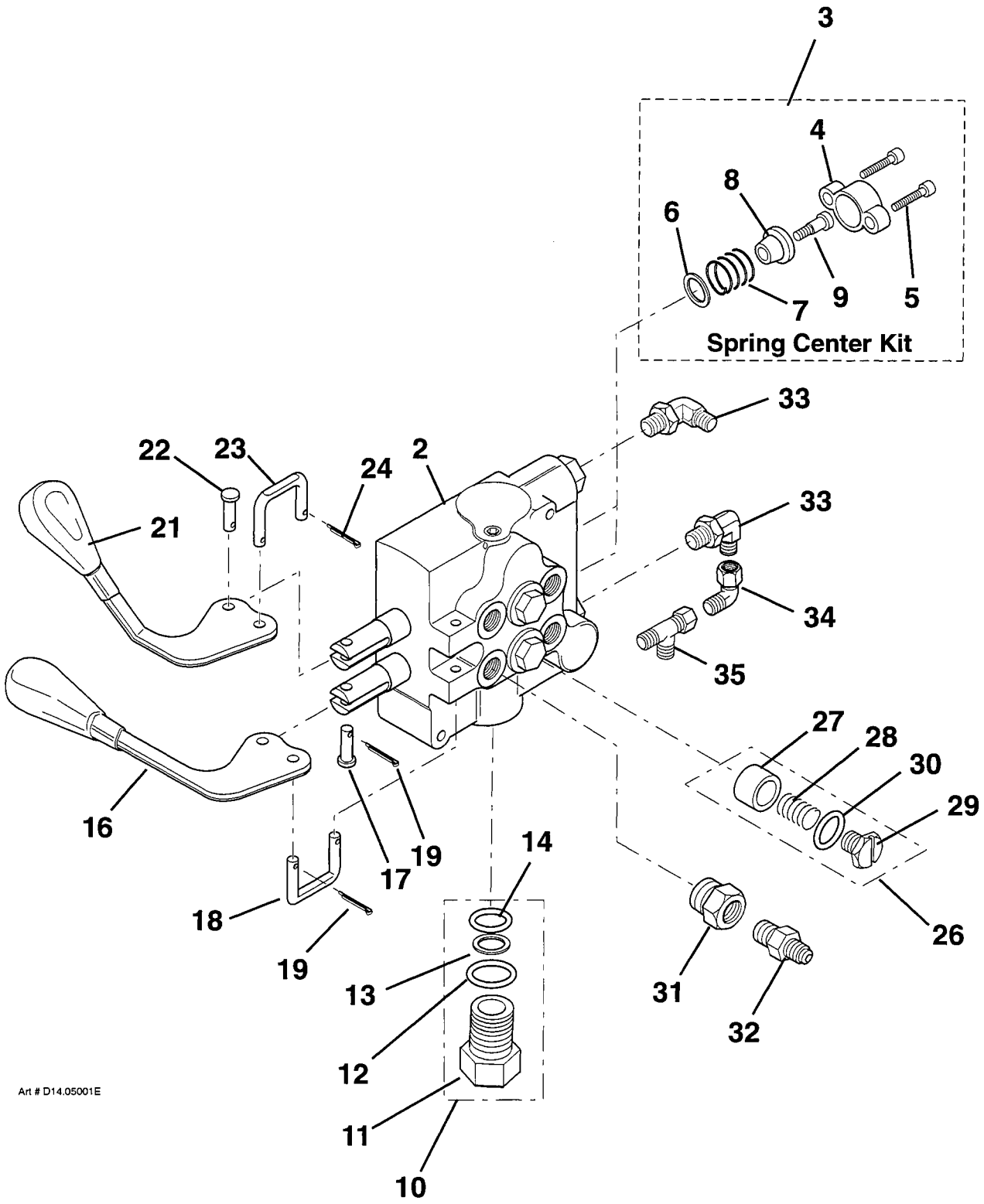
SIMON AERIALS INC. REV. 29 NOV., 1995	PART NO.	PLATE NO. D14.04

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	354 4120		VALVE ASSEMBLY, PLATFORM ROTATE AND LEVEL	1
1	230 0610		VALVE, PLATFORM ROTATE AND LEVEL	
			(Modified two spool valve 01-207100)	1
2			SPOOL AND BODY ASSEMBLY	
3	01-207103		SPRING CENTER KIT	2
4			CAP, END	1
5			SCREW (with lock washer)	2
6			WASHER	1
7			SPRING, RETURN	1
8			SPACER	1
9			BOLT, SHOULDER	1
10			BUSHING KIT, POWER BEYOND	1
11			BUSHING, POWER BEYOND	1
12			"O"-RING	1
13			RING, BACKUP	1
14			"O"-RING	1
15	01-207102		HANDLE KIT (Straight handle)	1
16	01-207105		HANDLE	1
17	01-098403		PIN, CLEVIS	1
18	01-207104		"C"-HOOK	1
19	01-20710		PIN, COTTER	3
20	01-207107		HANDLE KIT (45° angled handle)	1
21	01-207108		HANDLE	1
22	01-098403		PIN, CLEVIS	1
23	01-207104		"C"-HOOK	1
24	01-207106		PIN, COTTER	3

TITLE PLATFORM LEVEL AND ROTATE VALVE ASSEMBLY (PLATE 1 OF 2)

PLATE NO. D14.05 | **SIMON AERIALS INC.** NEW 09 SEP., 1995 | PART NO. 354 4120



TITLE PLATFORM LEVEL AND ROTATE VALVE ASSEMBLY (PLATE 1 OF 2)

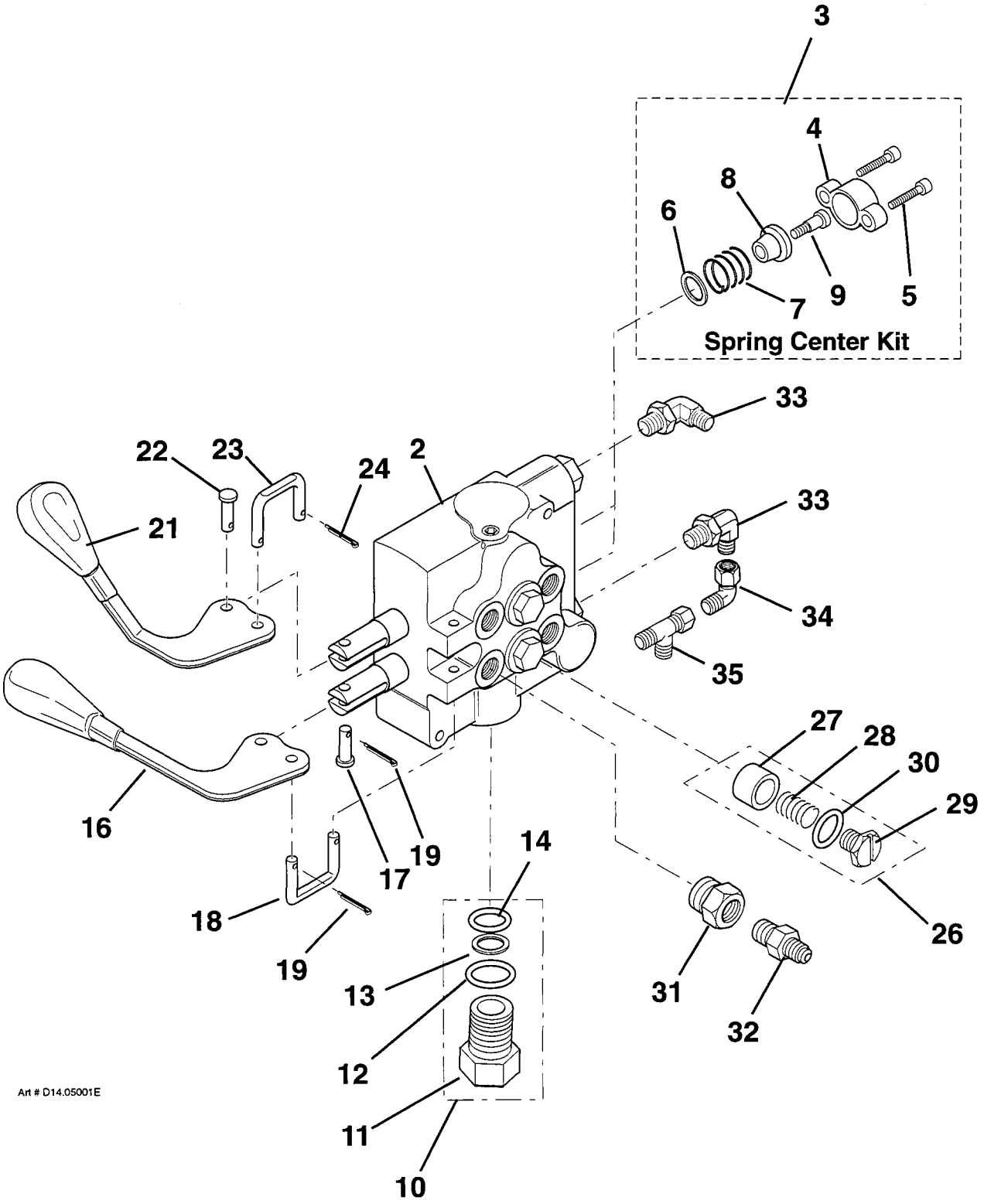
SIMON AERIALS INC. NEW 09 SEP., 1995	PART NO. 354 4120	PLATE NO. D14.05

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items **are not** part of Valve 230 0610:	
25	01-207101		SEAL KIT	1
26			VALVE KIT, LOAD CHECK (used in some applications)	2
27			POPPET, LOAD CHECK	1
28			SPRING	1
29			PLUG, HEX HEAD	1
30			"O"-RING	
31			FITTING, ORIFICED (either of these may be fitted)	4
	218 9010		Modified **4-6** F5OX-S (Optional. Item 32 **is not** required.)	
	219 0800		Modified **4** F5OX-S (Optional. Item 32 **is also** required.)	
32	06-090300		REDUCER/ EXPANDER (6-4 F5OG5-S)	
			(required with connector **219 0800**, Item 31 above)	4
33	06-044600		90° ELBOW, "O"-RING TO 37° (6 C5OX-S)	2
34	06-051500		90° ELBOW, SWIVEL NUT (6 C6X-S)	1
35	06-054500		RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S)	1
			Items 36 through 38 are used for mounting the valve assembly *in most applications:*	
36	07-003009		CAP SCREW, HEX HEAD (1/4"-20 x 2", Grade 5)	2
37	07-062014		WASHER, FLAT (1/4")	4
38	07-050014		NUT, LOCK (1/4"-20, Grade 5)	2

TITLE PLATFORM LEVEL AND ROTATE VALVE ASSEMBLY (PLATE 2 OF 2)

PLATE NO.		PART NO.
D14.05	**SIMON AERIALS INC.** NEW 09 SEP., 1995	354 4120



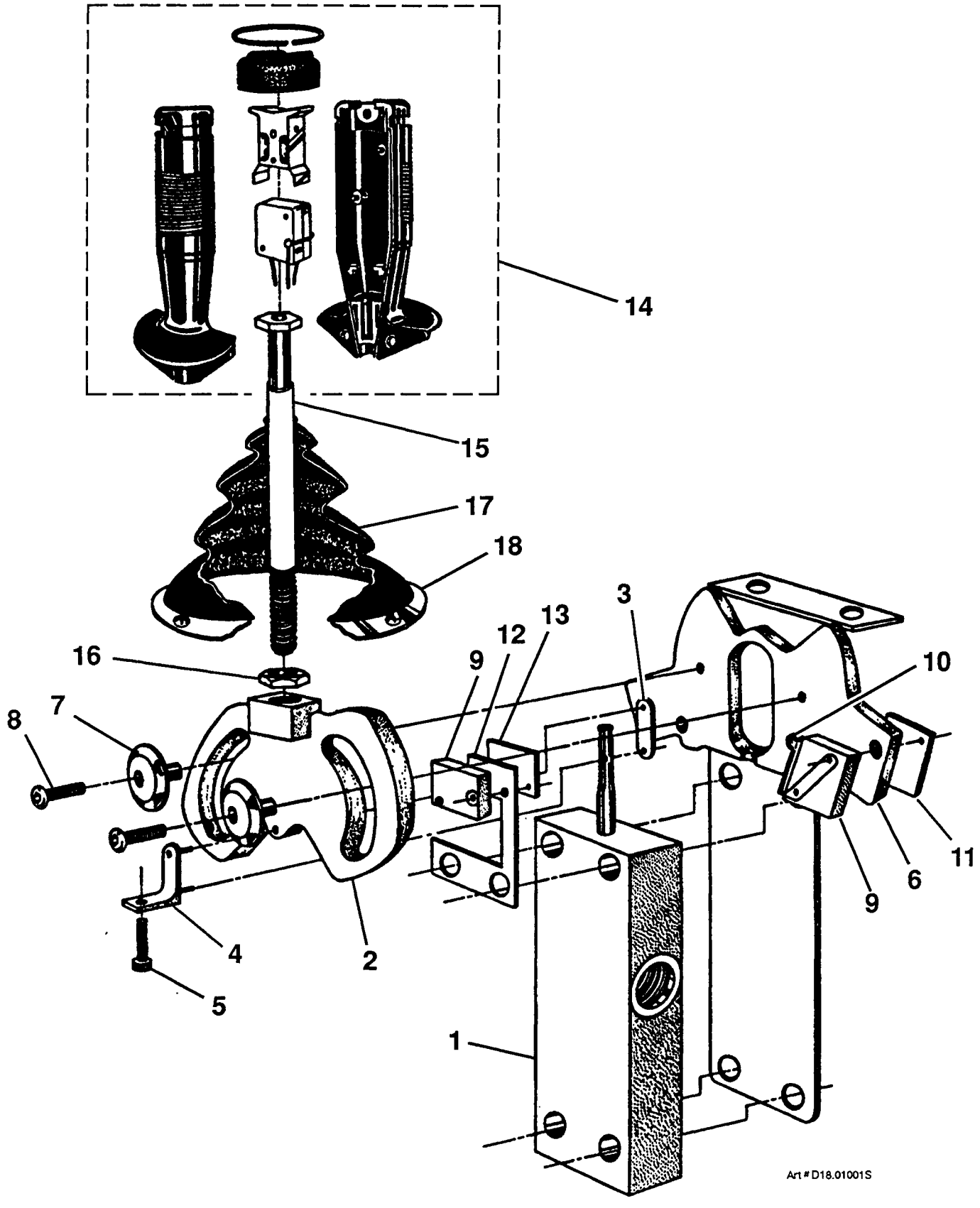
TITLE	PLATFORM LEVEL AND ROTATE VALVE ASSEMBLY (PLATE 2 OF 2)		
SIMON AERIALS INC.	NEW 09 SEP., 1995	PART NO. 354 4120	PLATE NO. D14.05

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-004700	D05.02	VALVE, 2-WAY (Flow control valve)	1
2	2103190		ACTUATOR, FLOW CONTROL VALVE	1
3	08-010600		LINK, CHAIN CONNECTING	1
4	2103170		BRACKET, SWITCH ACTUATOR	1
5	07-008352		SCREW, SOCKET HEAD ("10-24 x 3/4", Grade 5)	1
6	2103200		BASE, VALVE	1
7	2102610		BUSHING, FLANGED	2
8	07-017003		SCREW, BUTTON HEAD (1/4"-20 x 3/4")	2
9	03-065000		MICRO SWITCH (includes roller lever actuator)	
			Note: Actuator not needed for one switch.	3
10	03-026500		ACTUATOR, BOLT ON (Roller lever)	1
11	2103140		PLATE, SWITCH MOUNTING	2
12	2102640		BRACKET, MICRO SWITCH	1
13	2103150		PLATE, SWITCH MOUN TING	1
			The following items **are not** part of the Drive Control Valve Assembly:	
14	03-402200	E01.07	HANDLE ASSEMBLY, DRIVE CONTROL	1
15	2112760		SHAFT, HANDLE	1
16	07-040015		NUT, HEX (5/16"-18, Grade 5)	1
17	03-020805		BOOT, RUBBER	1
18	2102540		RING, RUBBER BOOT CLAMP	1

TITLE: DRIVE/ STEER CONTROL VALVE ASSEMBLY

PLATE NO. D18.01 | **SIMON AERIALS INC.** REV. 08/13/91 | PART NO. 3510034



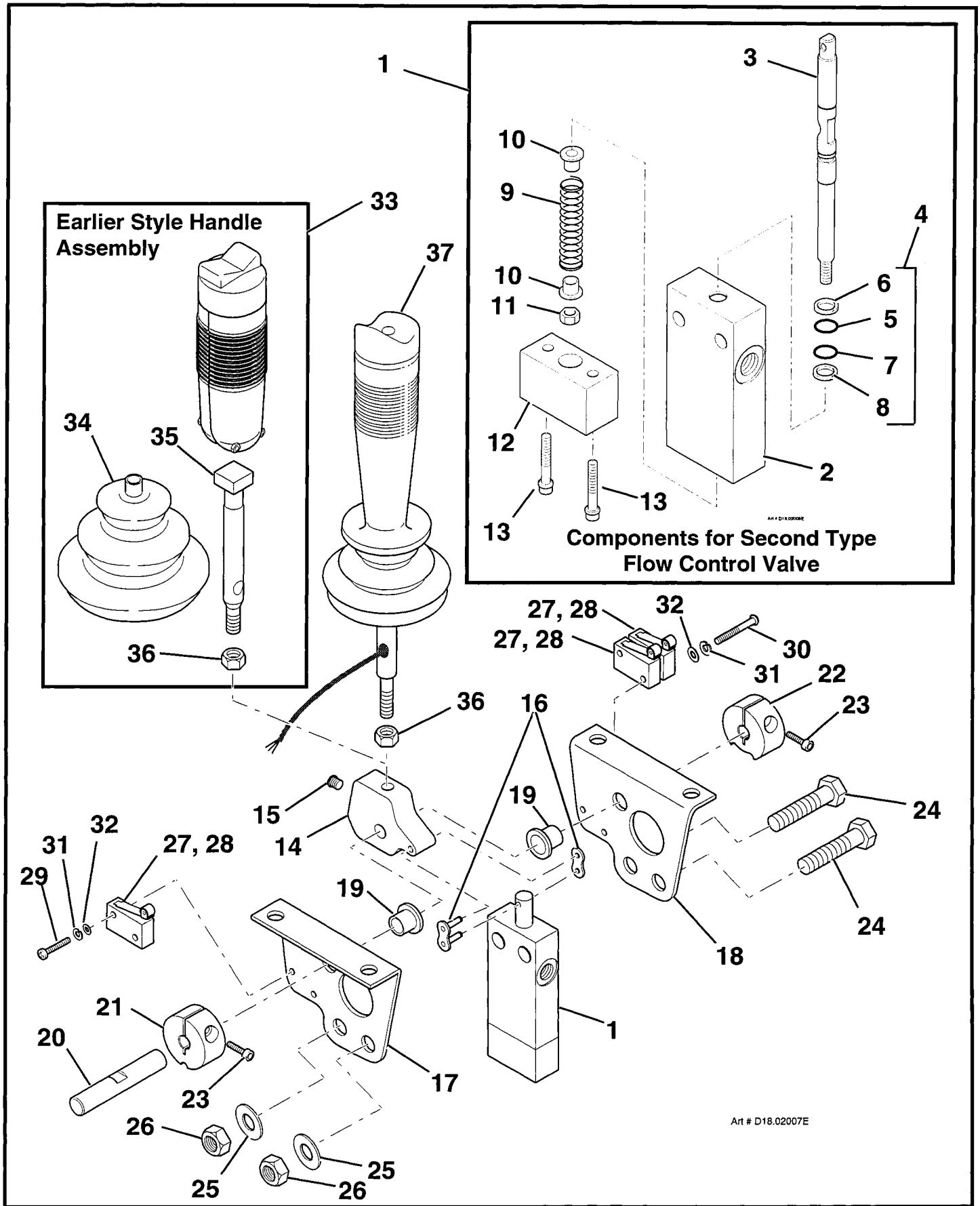
TITLE	DRIVE/ STEER CONTROL VALVE ASSEMBLY		
SIMON AERIALS INC.	REV. 08/13/91	PART NO. 3510034	PLATE NO. D18.01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			VALVE ASSEMBLY, DRIVE CONTROL (First type shown)	1
	01-072400		First type (**Not** for use with Water Glycol hydraulic fluid)	
	01-201400		First type (Can be used with Water Glycol hydraulic fluid)	
	353 5630		Second type (Single cam [Item 21] has **three** detents)	
	353 5640		Second type (Single cam [Item 21] has **one** detent)	
1			VALVE, FLOW CONTROL (1 tooth)	1
	- - -		For "**first type**" assembly (Valve is not available separately)	
	01-230800		For "**second type**" assembly	
2	231 5530		BODY, FLOW CONTROL VALVE	1
3	231 5540		SPOOL, FLOW CONTROL VALVE	1
4	01-000901		SEAL KIT, FLOW CONTROL VALVE	1
5	01-000902		"O"-RING (12 mm)	1
6	01-000904		RING, BACKUP (12 mm)	1
7	01-000903		"O"-RING (10 mm)	1
8	01-000905		RING, BACKUP (10 mm)	1
9	231 5560		SPRING	1
10	231 5550		BUSHING, SPRING RETAINER	2
11	07-050014		NUT, LOCK (1/4"-20, Grade 5)	1
12	231 5520		CAP, VALVE BODY	1
13	07-008354		CAP SCREW, HEX SOCKET HEAD	
			(#10-24 x 1-1/4", Grade 8)	2
14			ARM, ROCKER	1
	212 1810		used with "**first type**" valve	
	232 3270	shown	used with "**second type**" valve	
15	07-023059		SET SCREW, SOCKET HEAD (3/8"-16 x 3/8", Grade 5)	
			(used with "**second type**" valve)	1
16	08-010200		LINK KIT, CONNECTING	1
17	212 1780		BRACKET, VALVE (right) (single switch side)	1
18	212 1790		BRACKET, VALVE (left) (double switch side)	1
19	212 1800		BUSHING, FLANGED	2
20	212 1740		SHAFT, CAM	1
21			CAM, SWITCH (single)	1
	212 1760		Cam has three detents (for **all except** 353 5640)	1
	232 3420	shown	Cam has one detent (for 353 5640)	1
22	212 1770		CAM, SWITCH (double)	1
23	07-008352		CAP SCREW, HEX SOCKET HEAD (#10-24 x 3/4", Grade 8)	2
24	07-003028		CAP SCREW, HEX HEAD (5/16"-18 x 1-3/4", Grade 5)	2
25	07-062015		WASHER, FLAT (5/16")	2
26	07-050015		NUT, STOP (5/16"-18, Grade 5)	2

TITLE DRIVE/ STEER CONTROL VALVE ASSEMBLY (PLATE 1 OF 2)

PLATE NO. D18.02 | **SIMON AERIALS INC.** REV. 16 JAN., 1996 | PART NO.

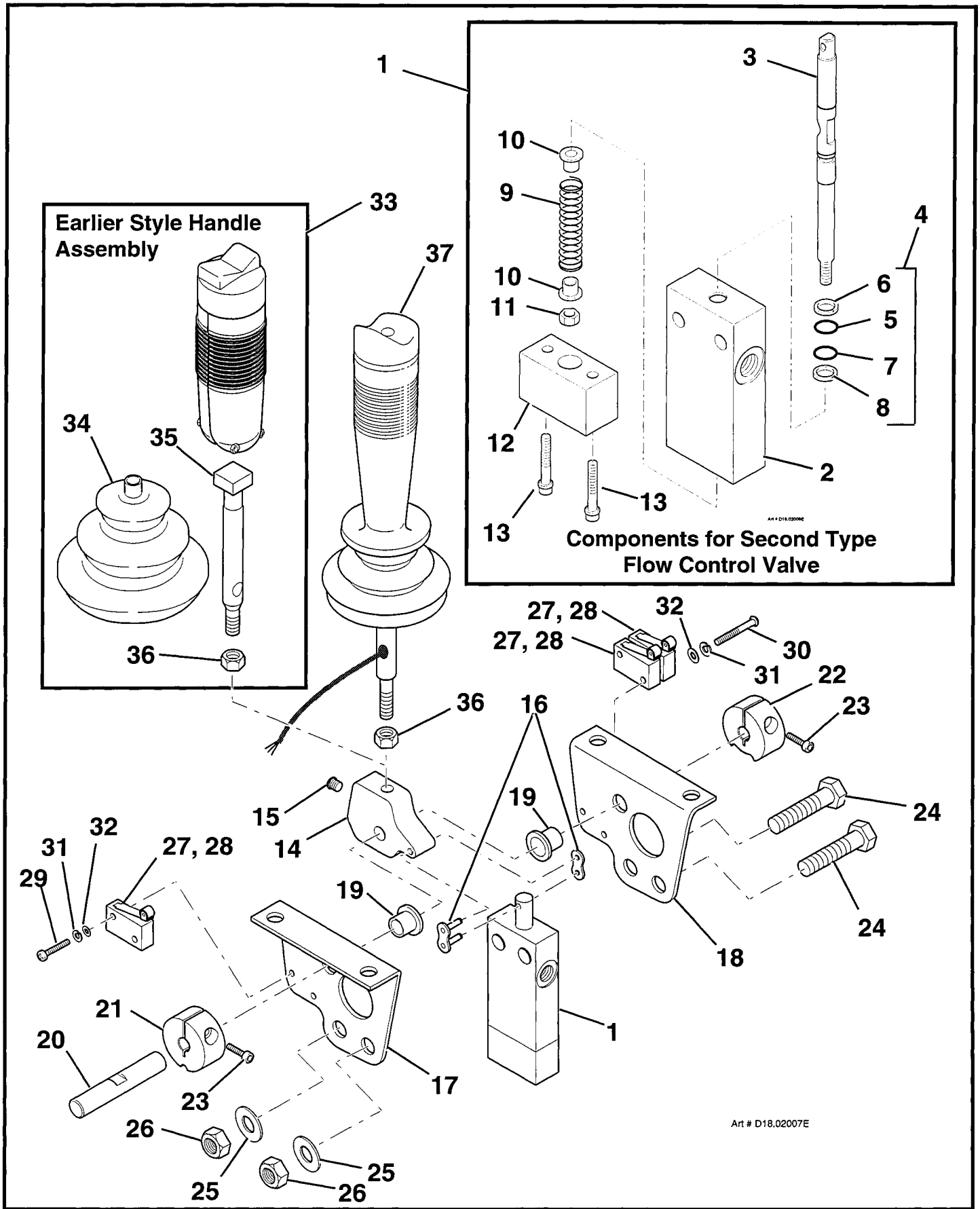


TITLE	DRIVE/ STEER CONTROL VALVE ASSEMBLY (PLATE 1 OF 2)		
SIMON AERIALS INC.	REV. 16 JAN., 1996	PART NO.	PLATE NO. D18.02

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
27	03-065000		MICRO SWITCH (includes roller lever actuator)	3
28	03-026500		ACTUATOR, BOLT ON (Roller lever)	1
29	07-013383		MACHINE SCREW, ROUND HEAD (#4-40 x 3/4", Grade 2)	2
30	07-013386		MACHINE SCREW, ROUND HEAD (#4-40 x 1-1/8", Grade 2)	2
31	07-065003		WASHER, HELICAL LOCK (#4)	4
32	07-062003		WASHER, FLAT (#4)	4
			The following **are not** part of the Drive Control Valve Ass'y:	
33	03-402200	E01.07	HANDLE ASSEMBLY, DRIVE CONTROL (Earlier style) (Note style of rocker switch on top. Comes with boot)	1
34	03-402206		BOOT, DRIVE CONTROL HANDLE	1
35	211 2760		SHAFT, HANDLE (for earlier style handle)	1
36	07-040016		NUT, HEX (3/8"-16, Grade 5)	1
37	353 0010	E01.14	HANDLE ASSEMBLY, DRIVE CONTROL (Later style) (Note style of rocker switch on top. Includes shaft and boot)	1
38	06-039300		ADAPTER, "O"-RING TO 37° (4 F5OX-S)	1
39	06-044500		90° ELBOW, "O"-RING TO 37° (6-4 C5OX-S)	1

TITLE	DRIVE/ STEER CONTROL VALVE ASSEMBLY (PLATE 2 OF 2)	
PLATE NO. D18.02	**SIMON AERIALS INC.** REV. 16 JAN., 1996	PART NO.

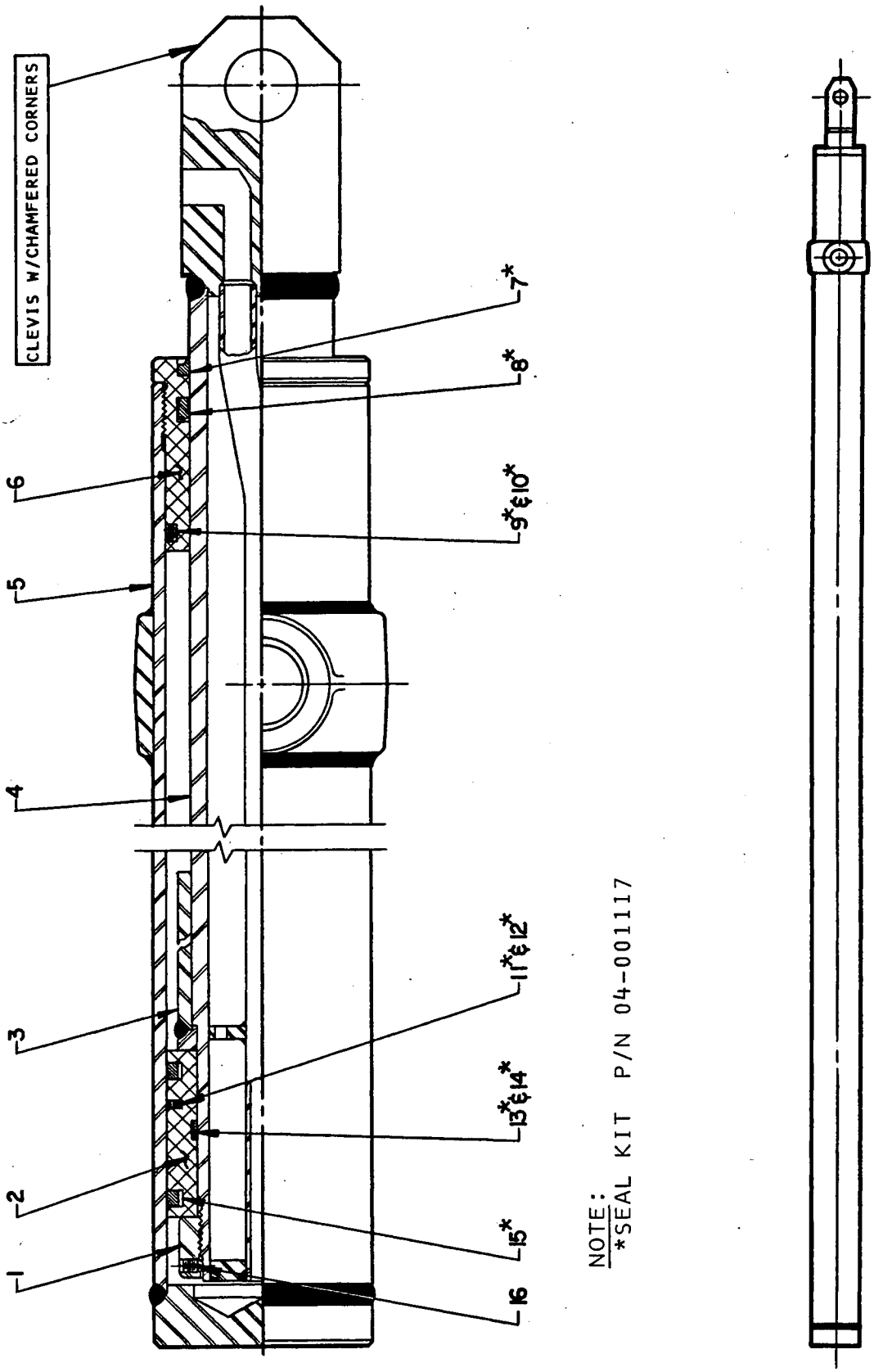


TITLE	DRIVE/ STEER CONTROL VALVE ASSEMBLY (PLATE 2 OF 2)		
SIMON AERIALS INC.	REV. 16 JAN., 1996	PART NO.	PLATE NO. D18.02

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	04-001102		PISTON NUT	1
2			PISTON	1
3			SPACER	1
4			ROD	1
5			CASE	1
6			HEAD GLAND	1
7*			WIPER	1
8*			ROD SEAL	1
9*			'O' RING	1
10*			BACK-UP RING	1
11*			'O' RING	1
12*			BACK-UP RING	1
13*			BACK-UP RING	1
14*			PISTON SEAL	2
15*			PISTON RING	2
16			SET SCREW	2
*	04-001117		SEAL KIT	1

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-001100



NOTE:
*SEAL KIT P/N 04-001117

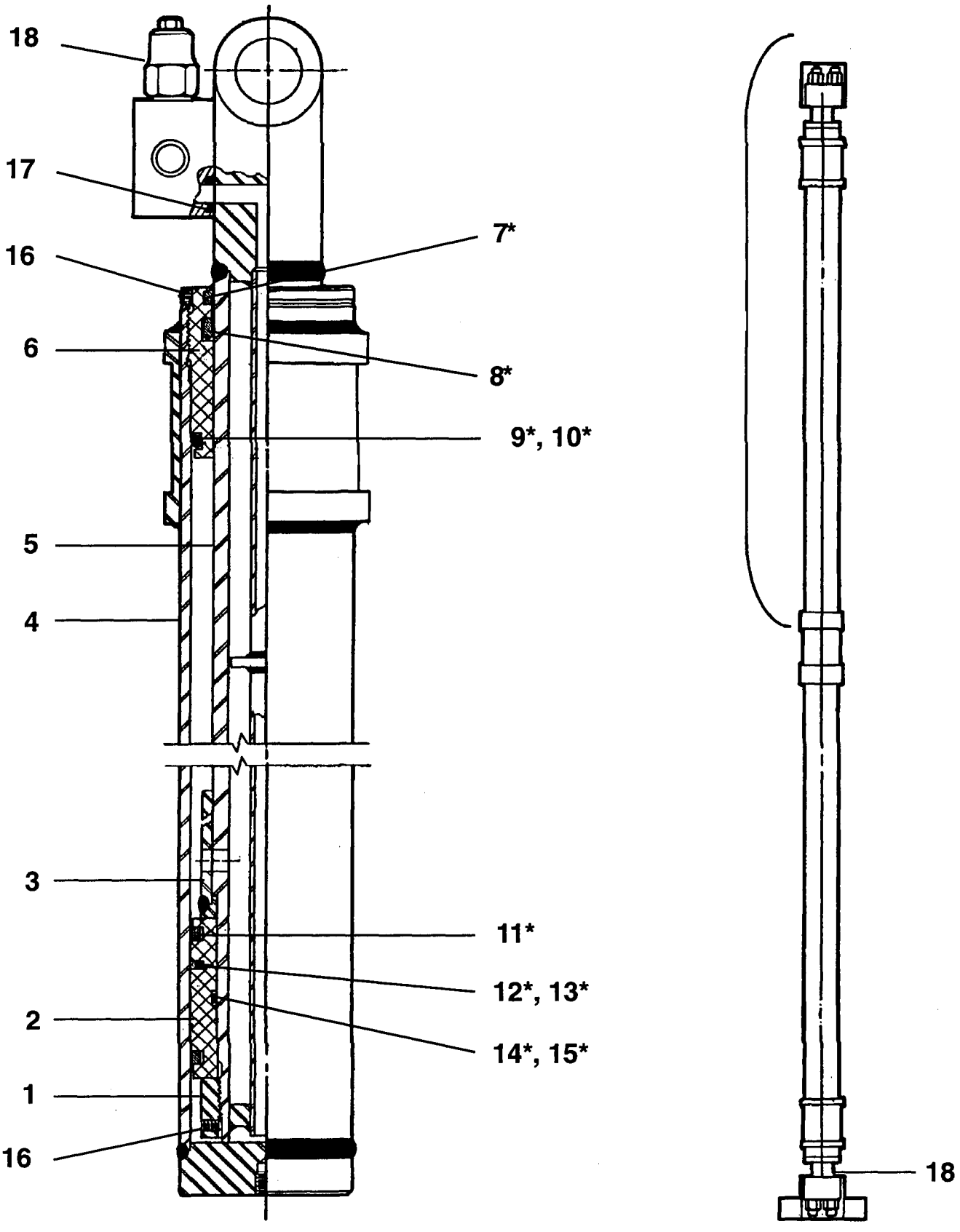
0284/1176

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-001100

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			NUT, PISTON	1
2			PISTON	1
3			SPACER	1
4			CASE	1
5			ROD	1
6			HEAD GLAND	1
7*			WIPER	1
8*			SEAL, ROD	1
9*			O-RING	1
10*			BACK-UP RING	1
11*			RING, PISTON	2
12*			SEAL, PISTON	1
13*			O-RING	1
14*			O-RING	1
15*			BACK-UP RING	2
16			SETSCREW	3
17			O-RING	2
18			ROD	1
19	04-010801		KIT, SEAL **NOTE:** ITEMS IS SEAL KIT IDENTIFIED BY AN ASTERISK (*).	1
			NOTE; QUANTITIES FOR ITEMS SHOWN ARE FOR ONE (1) CYLINDER OF THE TWO (2) CYLINDER ASSEMBLY.	

TITLE	EXTEND CYLINDER		
PLATE NO. D19.18	**SIMON AERIALS INC.** REV.11 OCT. 1994	PART NO.	04-010800



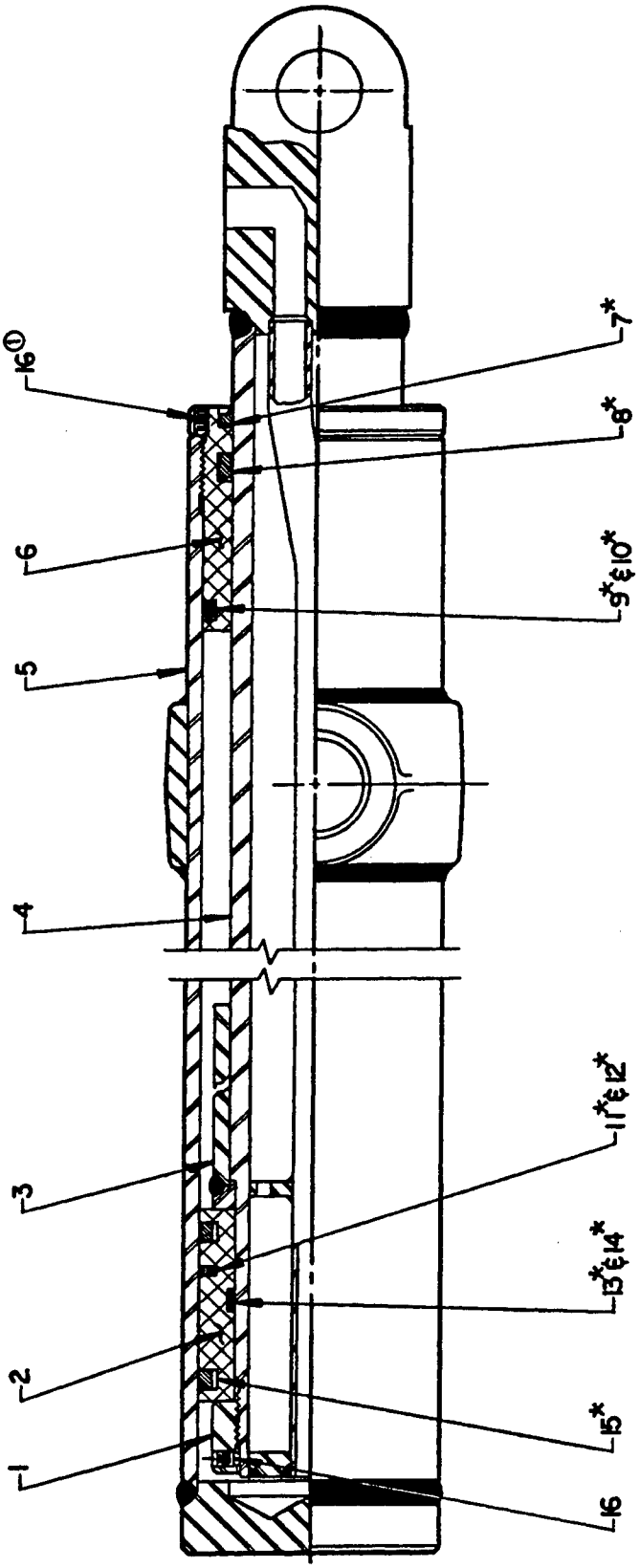
TITLE	EXTEND CYLINDER		
SIMON AERIALS INC. REV.11 OCT. 1994	PART NO. 04-010800	PLATE NO. D19.18	

PARTS LIST

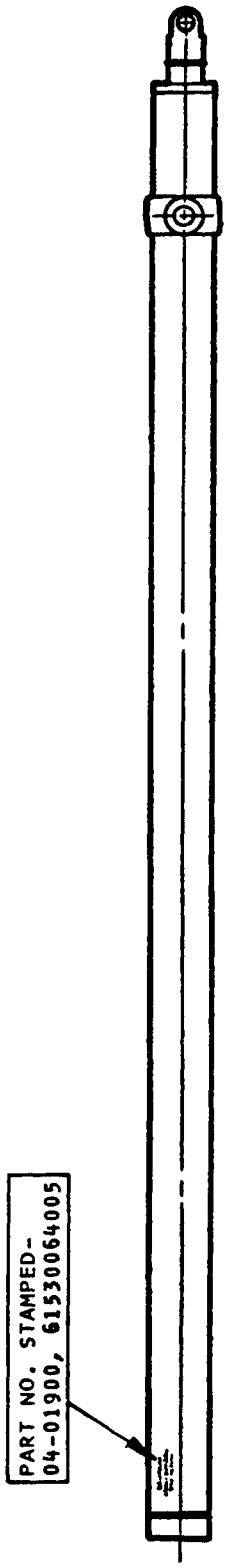
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			NUT, PISTON	1
2			PISTON	1
3			SPACER	1
4			ROD	1
5			CASE	1
6	04-001302		GLAND, HEAD	1
7*			WIPER	1
8*			SEAL, ROD	1
9*			O-RING	1
10*			RING, BACK-UP	1
11*			O-RING	1
12*			SEAL, PISTON	1
13*			O-RING	1
14*			RING, BACK-UP	2
15*	04-001303		RING, PISTON	2
16			SETSCREW (not used on early model cylinders)	3
*	04-001301		SEAL KIT	1

TITLE: TELESCOPE CYLINDER

PLATE NO. D19.20 | **SIMON AERIALS INC.** REV. 08/03/90 | PART NO. 04-001900



NOTE:
*SEAL KIT P/N 04-001301

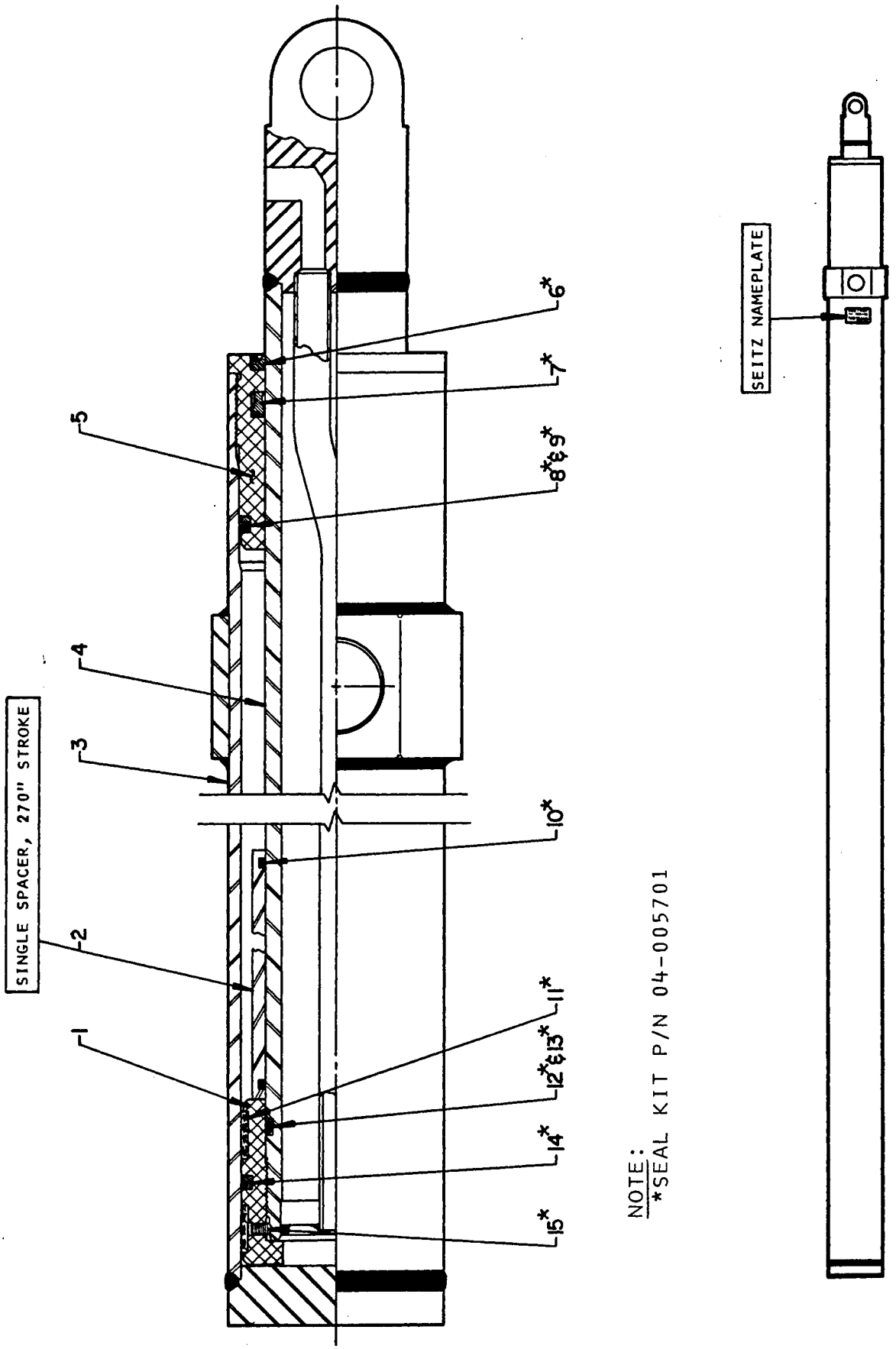


TITLE	TELESCOPE CYLINDER		
SIMON AERIALS INC. REV. 08/03/90	PART NO. 04-001900	PLATE NO. D19.20	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			PISTON	1
2			SPACER	1
3			CASE	1
4			ROD	1
5			HEAD GLAND	1
6*			WIPER	1
7*			ROD SEAL	1
8*			'O' RING	1
9*			BACK-UP RING	1
10*			'O' RING	2
11*			WEAR RING	2
12*			'O' RING	1
13*			BACK-UP RING	2
14*			PISTON SEAL	1
15			SET SCREW	1
*	04-005701		SEAL KIT	1

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-005700



NOTE:
*SEAL KIT P/N 04-005701

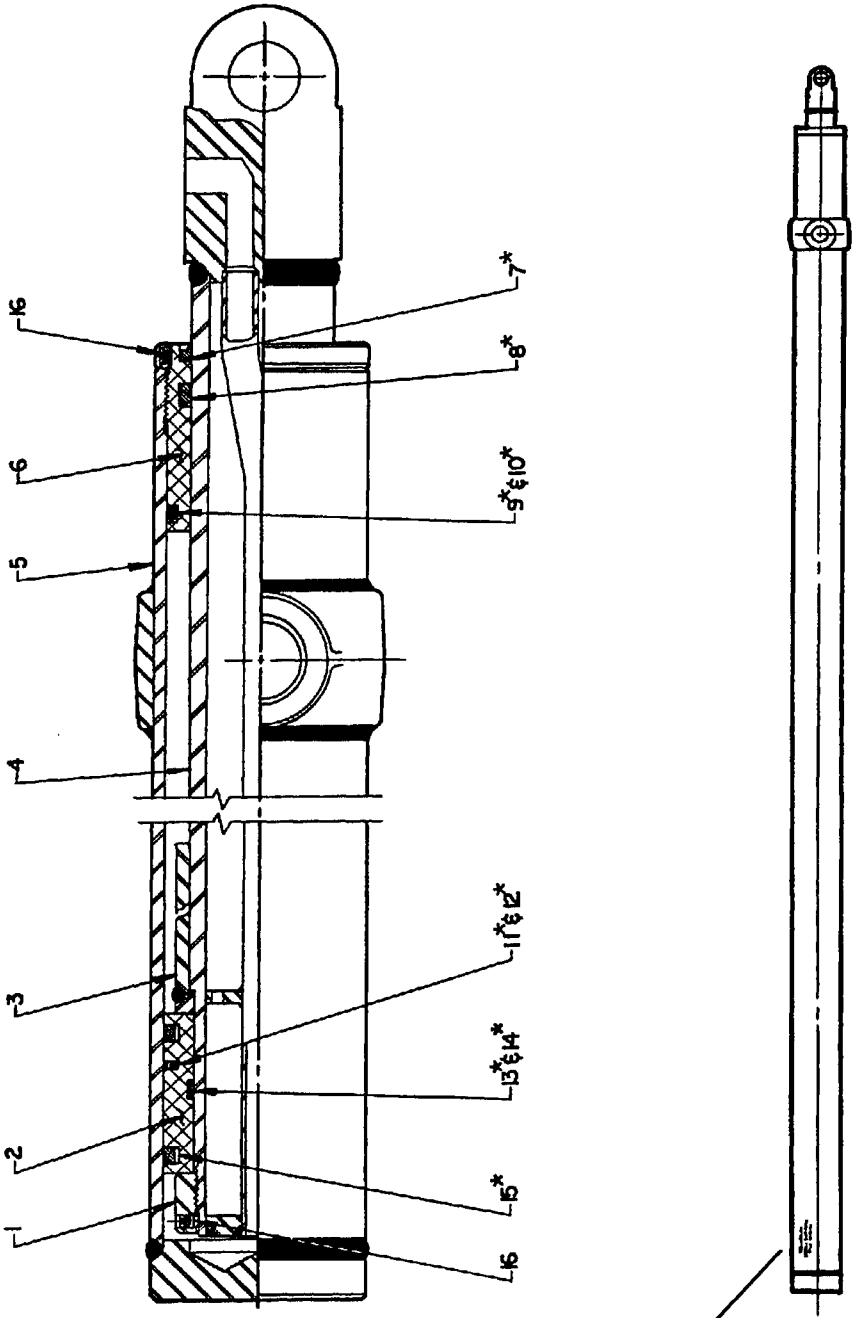
0585/0882

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-005700

PARTS LIST

ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
1			NUT, PISTON	1
2			PISTON	1
3			SPACER	1
4	04-001302		ROD	1
5			CASE	1
6			GLAND, HEAD	1
7*			WIPER	1
8*			SEAL, ROD	1
9*			O-RING	1
10*			RING, BACK-UP	1
11*			O-RING	1
12*			SEAL, PISTON	1
13*			0-RING	1
14*			RING, BACK-UP	2
15*	04-001303		RING, PISTON	2
16			SETSCREW	3
*	04-032101		SEAL KIT	1
			NOTE: ITEMS IN KIT IDENTIFIED BY ASTERISK (*).	

TITLE	TELESCOPE CYLINDER			
PLATE NO.	D19.33	**SIMON AERIALS INC.**	ORIGIN 06/01/90	PART NO. 04-032100



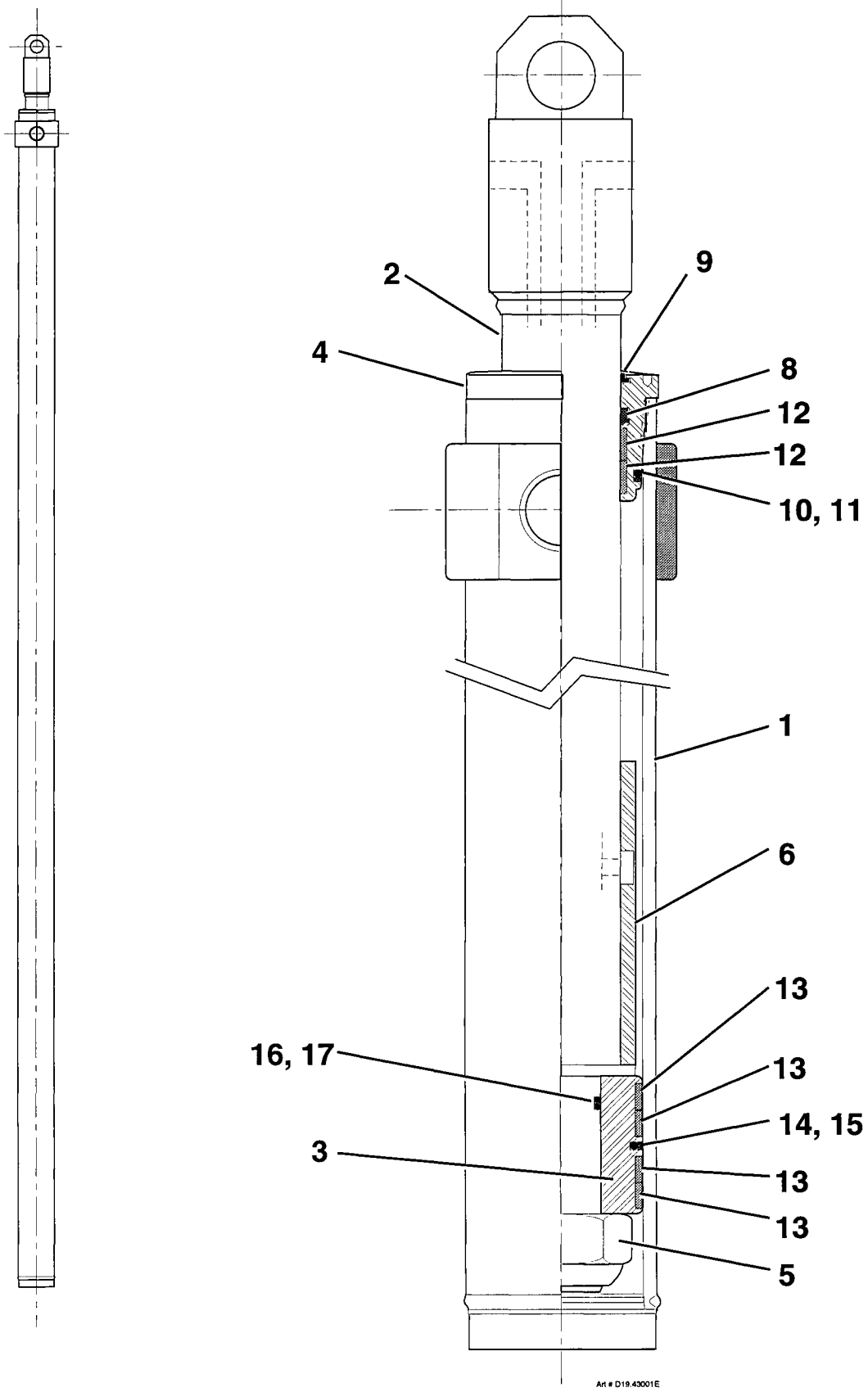
Part Number is Stamped Here
04-001900, 61530064005

TITLE	TELESCOPE CYLINDER		
SIMON AERIALS INC. ORIGIN 06/01/90	PART NO. 04-032100	PLATE NO. D19.33	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Cylinder can be identified by Part Number "04036700SH" on nameplate located on cylinder case.	
1			CASE, CYLINDER	1
2			ROD, CYLINDER	1
3			PISTON	1
4			GLAND, HEAD	1
5			NUT, LOCK	1
6			SPACER	1
7	04-036701		SEAL KIT	1
8			WIPER, ROD	1
9			SEAL, ROD	1
10			"O"-RING	1
11			RING, BACKUP	1
12			RING, RODWEAR	3
13			RING, PISTON WEAR	4
14			"O"-RING	1
15			SEAL, PISTON	1
16			"O"-RING	1
17			WASHER, BACKUP	1

TITLE	TELESCOPE CYLINDER, 262" (6.66 M) STROKE	
PLATE NO. D19.43	**SIMON AERIALS INC.** NEW 28 FEB., 1995	PART NO. 04-036700

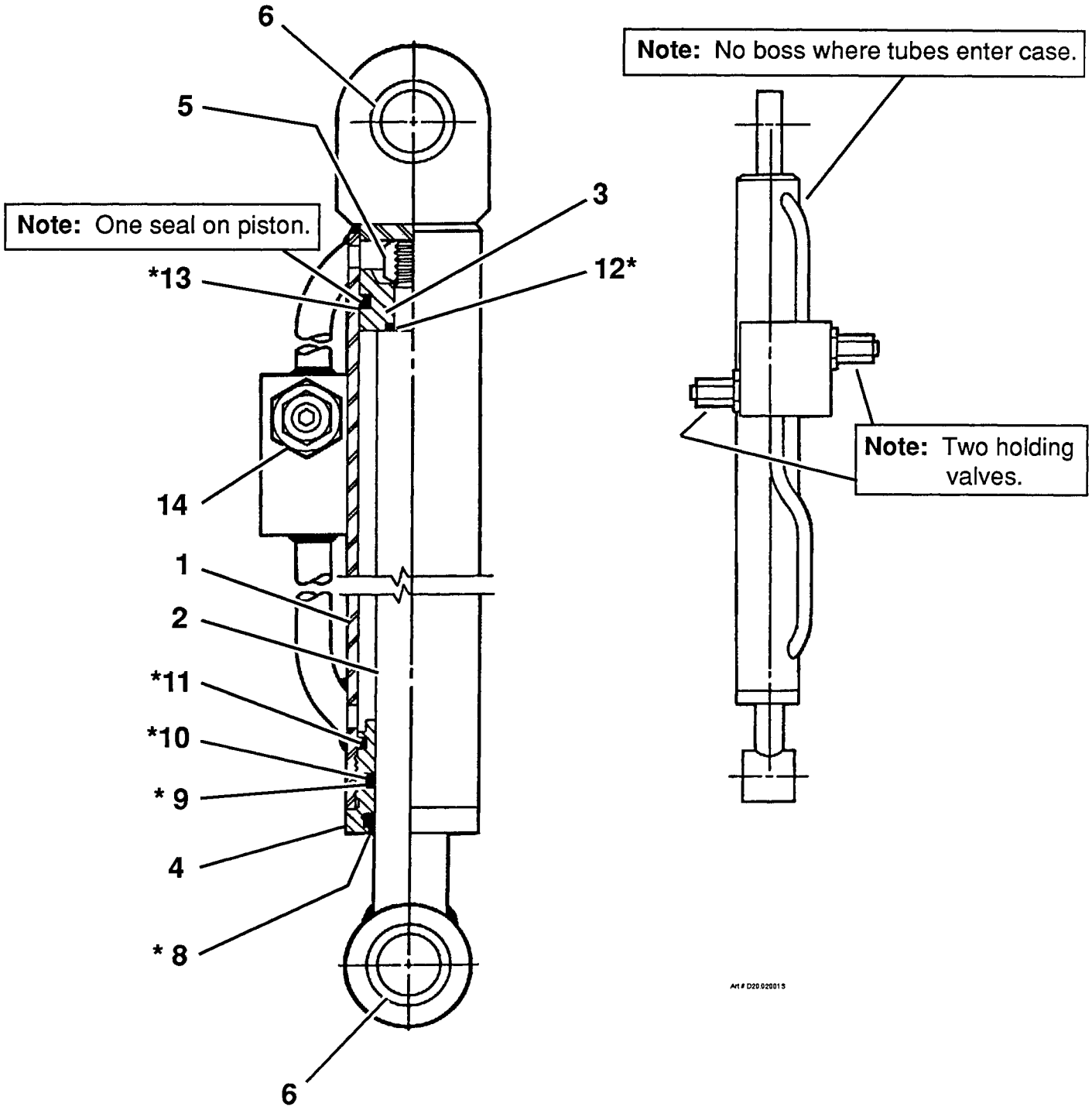


TITLE	TELESCOPE CYLINDER, 262" (6.66 M) STROKE		
SIMON AERIALS INC. NEW 28 FEB., 1995		PART NO. 04-036700	PLATE NO. D19.43

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Identifying features of cylinder 04-007300:	
			1. No boss where tubes enter case,	
			2. Two holding valves,	
			3. One seal on piston.	
1			CASE, CYLINDER	1
2	04-004501		ROD, CYLINDER	1
3			PISTON	1
4			GLAND, HEAD	1
5			NUT, PISTON ROD (3/4"-16)	1
6	04-007102		BUSHING	3
7	04-007101		SEAL KIT (not for use with water-glycol hydraulic fluid)	1
			Note: Items in kit identified by asterisk (*).	
8			WIPER, ROD	1
9			"O"-RING	1
10			WASHER, BACKUP	1
11			"O"-RING	1
12			SEAL	1
13			SEAL, PISTON	1
			The following items **are not** part of the cylinder assembly:	
14	01-032500	D21.01	VALVE, HOLDING	2

TITLE	SLAVE LEVELING CYLINDER, 17.8" (.45 M) STROKE			
PLATE NO.	D20.02	**SIMON AERIALS INC.**	REV. 05/02/91	PART NO. 04-007300

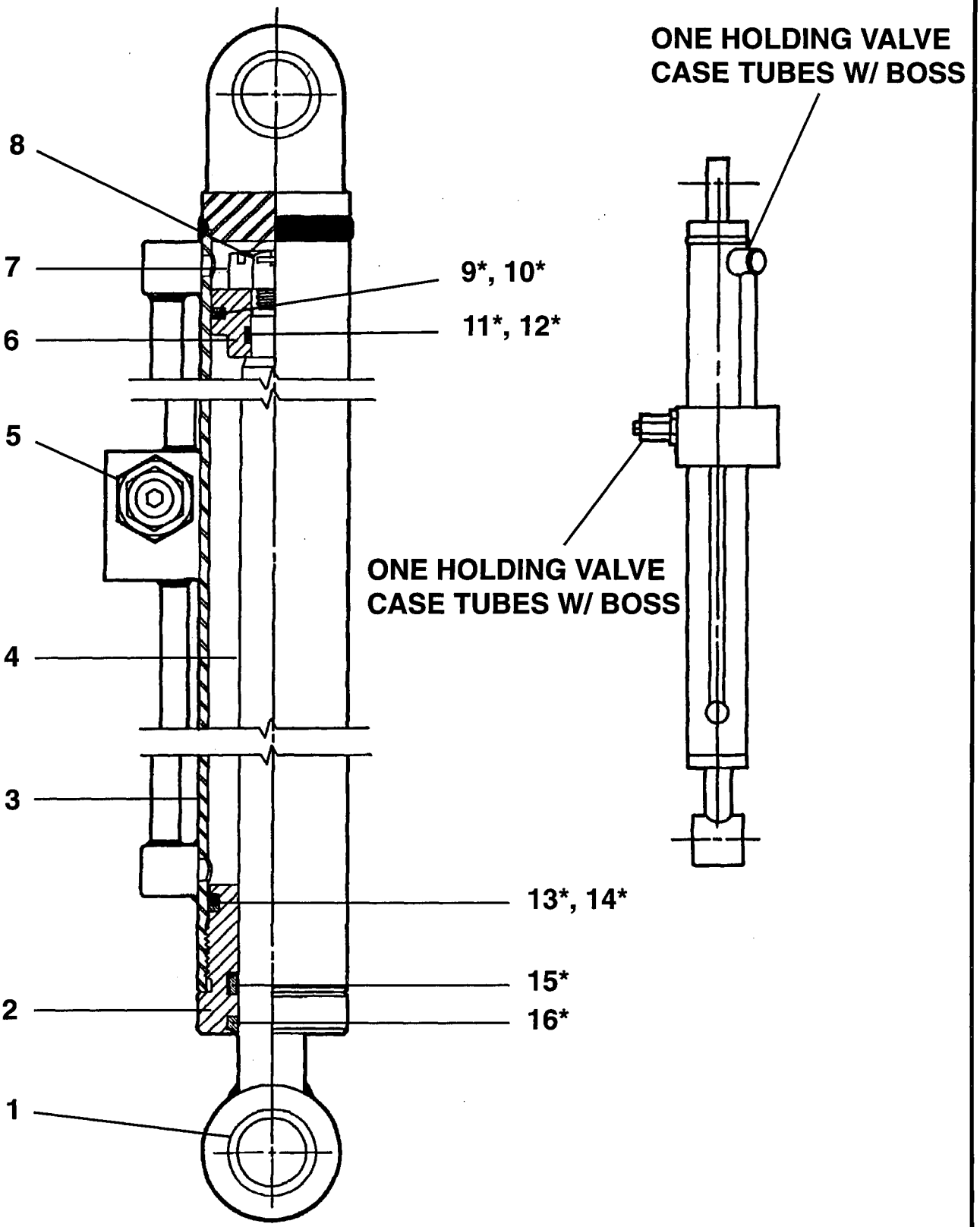


TITLE	SLAVE LEVELING CYLINDER, 17.8" (.45 M) STROKE		
SIMON AERIALS INC. REV. 05/02/91	PART NO. 04-007300	PLATE NO. D20.02	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			BUSHING	2
2			HEAD GLAND	1
3			CASE	1
4	04-002402		ROD	1
5	01-032500		VALVE, HOLDING	1
6	04-002403		PISTON	1
7	04-001203		NUT, PISTON	1
8			COTTER KEY	1
9*			O-RING	1
10*			SEAL, PISTON	1
11*			O-RING	1
12*			BACK-UP RING	2
13*			O-RING	1
14*			BACK-UP RING	1
15*			SEAL, ROD	1
16*			WIPER	1
17	04-002401		KIT, SEAL	1

TITLE	SLAVE LEVELING CYLINDER			
PLATE NO.	D20.04	**SIMON AERIALS INC.**	REV. 11 OCT. 1994	PART NO. 04-002400

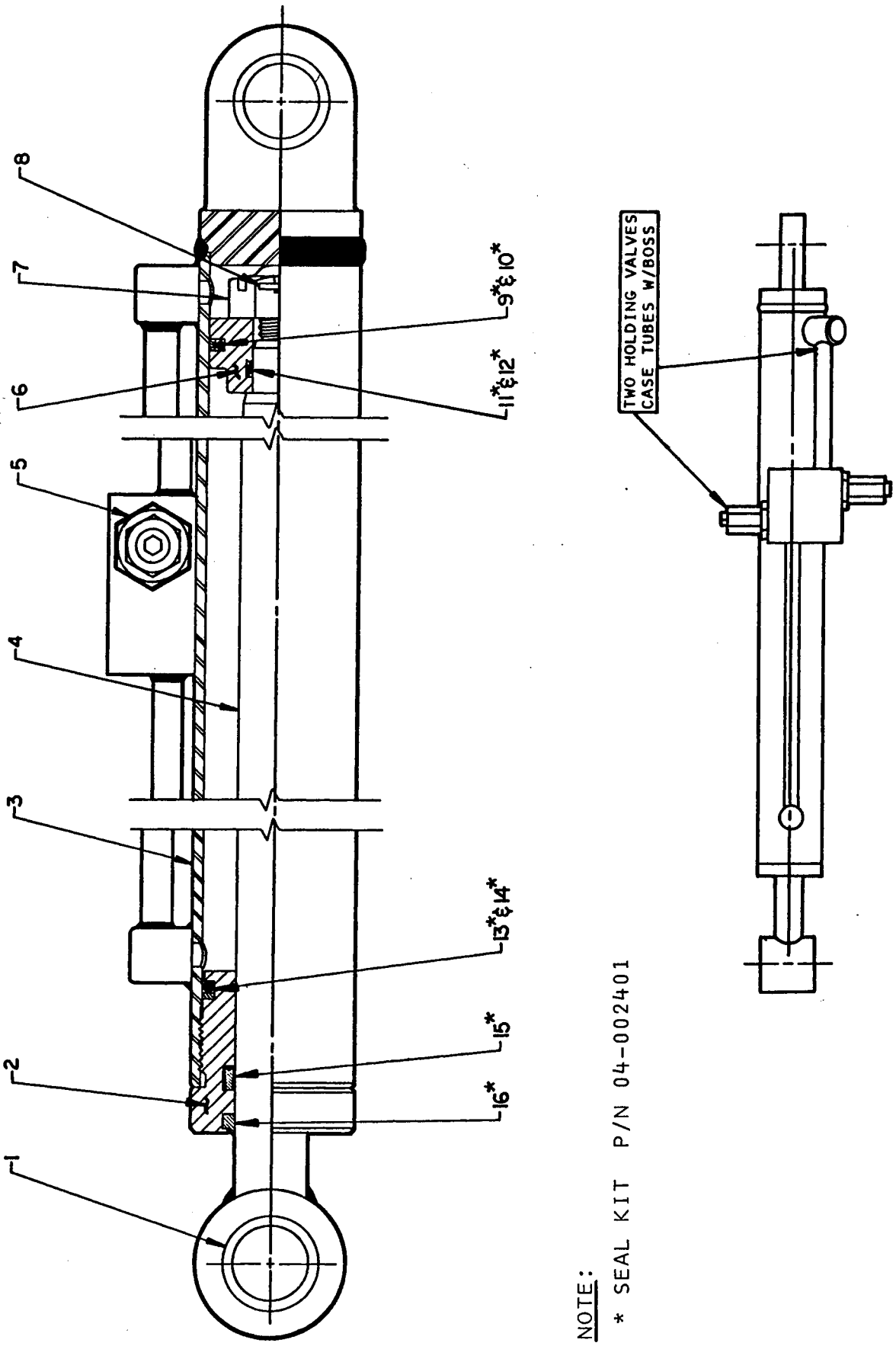


TITLE	SLAVE LEVELING CYLINDER		
SIMON AERIALS INC. REV. 11 OCT. 1994	PART NO. 04-002400	PLATE NO. D20.04	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			BUSHING	3
2			HEAD GLAND	1
3			CASE	1
4	04-002402		ROD	1
5	01-032500		HOLDING VALVE	2
6	04-002403		PISTON	1
7	04-001203		PISTON NUT	1
8			COTTER KEY	1
9*			'O' RING	1
10*			PISTON SEAL	1
11*			'O' RING	1
12*			BACK-UP RING	2
13*			'O' RING	1
14*			BACK-UP RING	1
15*			ROD SEAL	1
16*			WIPER	1
*	04-002401		SEAL KIT	1

DESCRIPTION	PART NO.
SLAVE LEVELING CYLINDER	04-003300



NOTE:
* SEAL KIT P/N 04-002401

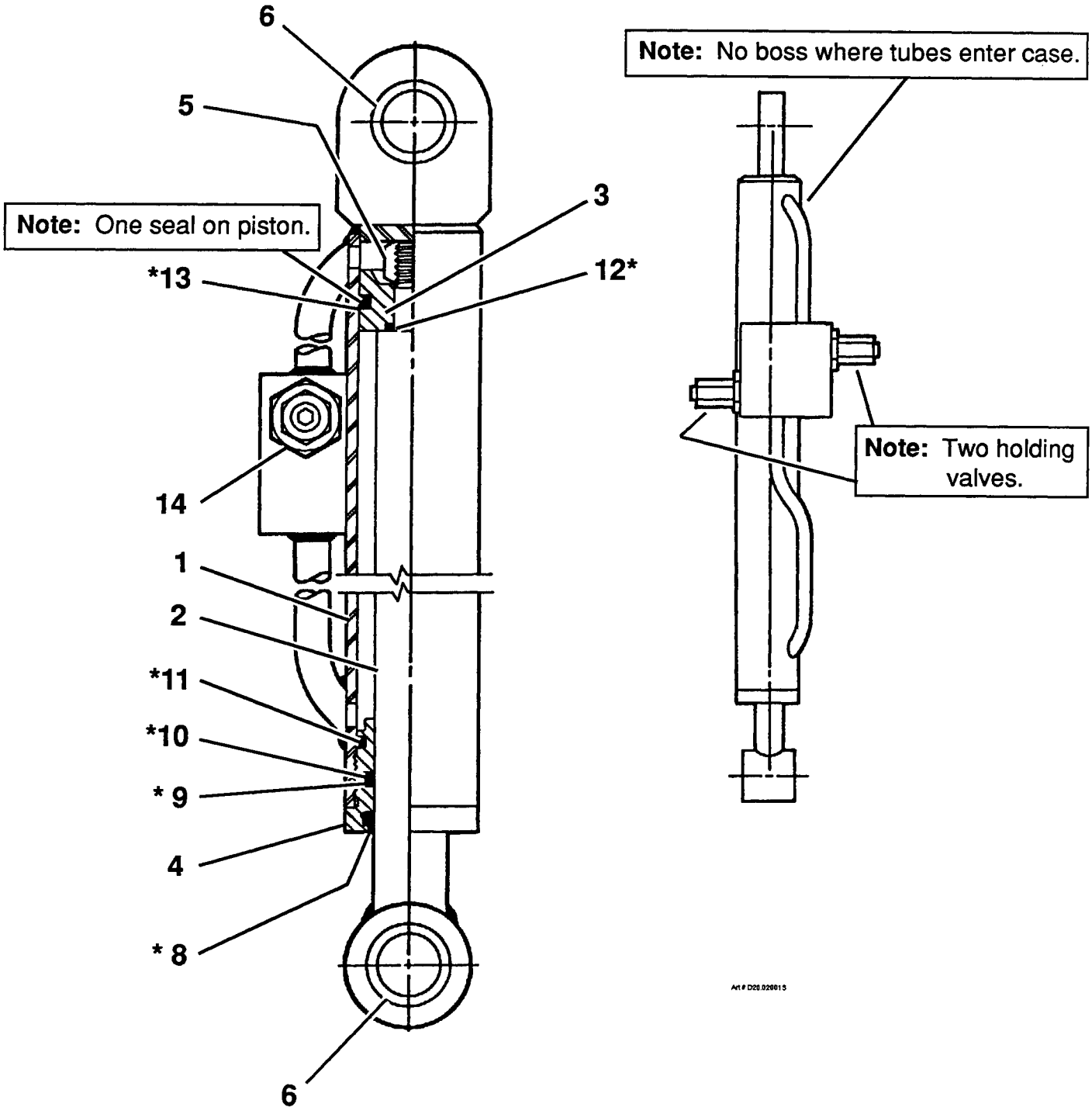
1184/0379

DESCRIPTION	PART NO.
SLAVE LEVELING CYLINDER	04-003300

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Note: Cylinder 04-031500 same as 04-007300 except seals.	
			Identifying features of cylinder 04-031500:	
			1. No boss where tubes enter case.	
			2. Two holding valves.	
			3. One seal on piston.	
1			CASE, CYLINDER	1
2	04-004501		ROD, CYLINDER	1
3			PISTON	1
4			GLAND, HEAD	1
5			NUT, PISTON ROD (3/4"-16)	1
6	04-007102		BUSHING	3
7	04-031501		SEAL KIT (can be used with water-glycol hydraulic fluid)	1
			Note: Items in kit identified by asterisk (*).	
8			WIPER, ROD	1
9			"O"-RING	1
10			WASHER, BACKUP	1
11			"O"-RING	1
12			SEAL	1
13			SEAL, PISTON	1
			The following items **are not** part of the cylinder assembly:	
14	01-032500	D21.01	VALVE, HOLDING	2

TITLE	SLAVE LEVELING CYLINDER, 17.8" (.45 M) STROKE			
PLATE NO.	D20.14	**SIMON AERIALS INC.**	REV. 05/02/91	PART NO. 04-031500

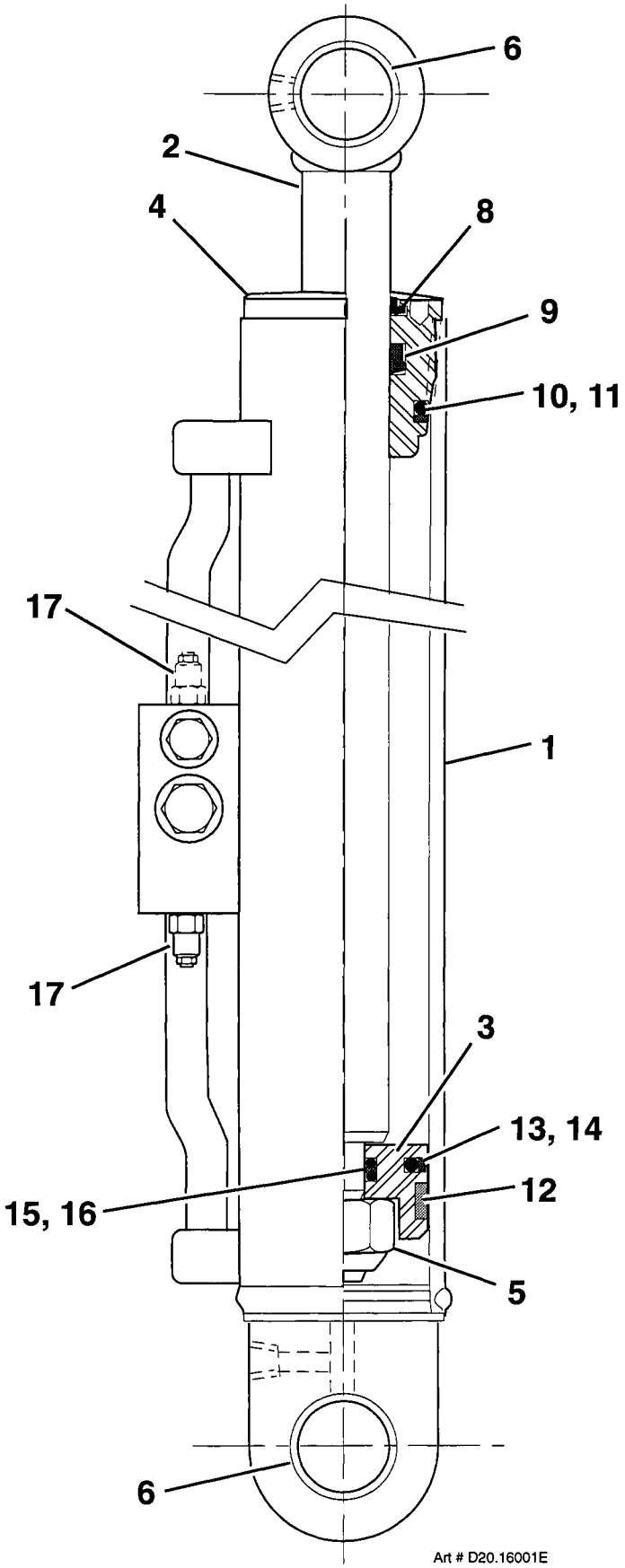


TITLE	SLAVE LEVELING CYLINDER, 17.8" (.45 M) STROKE		
SIMON AERIALS INC. REV. 05/02/91	PART NO. 04-031500	PLATE NO. D20.14	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Cylinder can be identified by Part Number "04035400SH" on nameplate located on valve block.	
1			CASE, CYLINDER	1
2			ROD, CYLINDER	1
3			PISTON	1
4			GLAND, HEAD	1
5			NUT, LOCK	1
6	04-035401		BUSHING	4
7	04-032601		SEAL KIT	1
8			WIPER, ROD	1
9			SEAL, ROD	1
10			"O"-RING	1
11			RING, BACKUP	1
12			RING, PISTON WEAR	1
13			"O"-RING	1
14			SEAL, PISTON	1
15			"O"-RING	1
16			WASHER, BACKUP	1
17			VALVE, COUNTERBALANCE	
	04-028302		Type 1 (Valve is stamped "CB-C**G**-LJN")	2
	01-227200		Type 2 [Valve is stamped "CB-C**B**-LH**N**", and set at 3,000 PSI (207 Bar) (211 Kg/ cm^2)]	2
			Note: "Type 1" and "Type 2" valves are directly interchangeable, but **must be replaced in pairs**. When ordering a replacement valve, **(2) of "Type 2"** will be supplied unless otherwise specified.	
18			SEAL KIT, COUNTERBALANCE VALVE	
	04-028303		(for "Type 1" Valve)	1
	01-227201		(for "Type 2" Valve)	1

TITLE	SLAVE LEVEL CYLINDER, 17-3/4" (.45 M) STROKE	
PLATE NO. D20.16	**SIMON AERIALS INC.** NEW 27 APR., 1994	PART NO. 04-035400



Art # D20.16001E

TITLE	SLAVE LEVEL CYLINDER, 17-3/4" (.45 M) STROKE		
SIMON AERIALS INC. NEW 27 APR., 1994	PART NO. 04-035400	PLATE NO. D20.16	

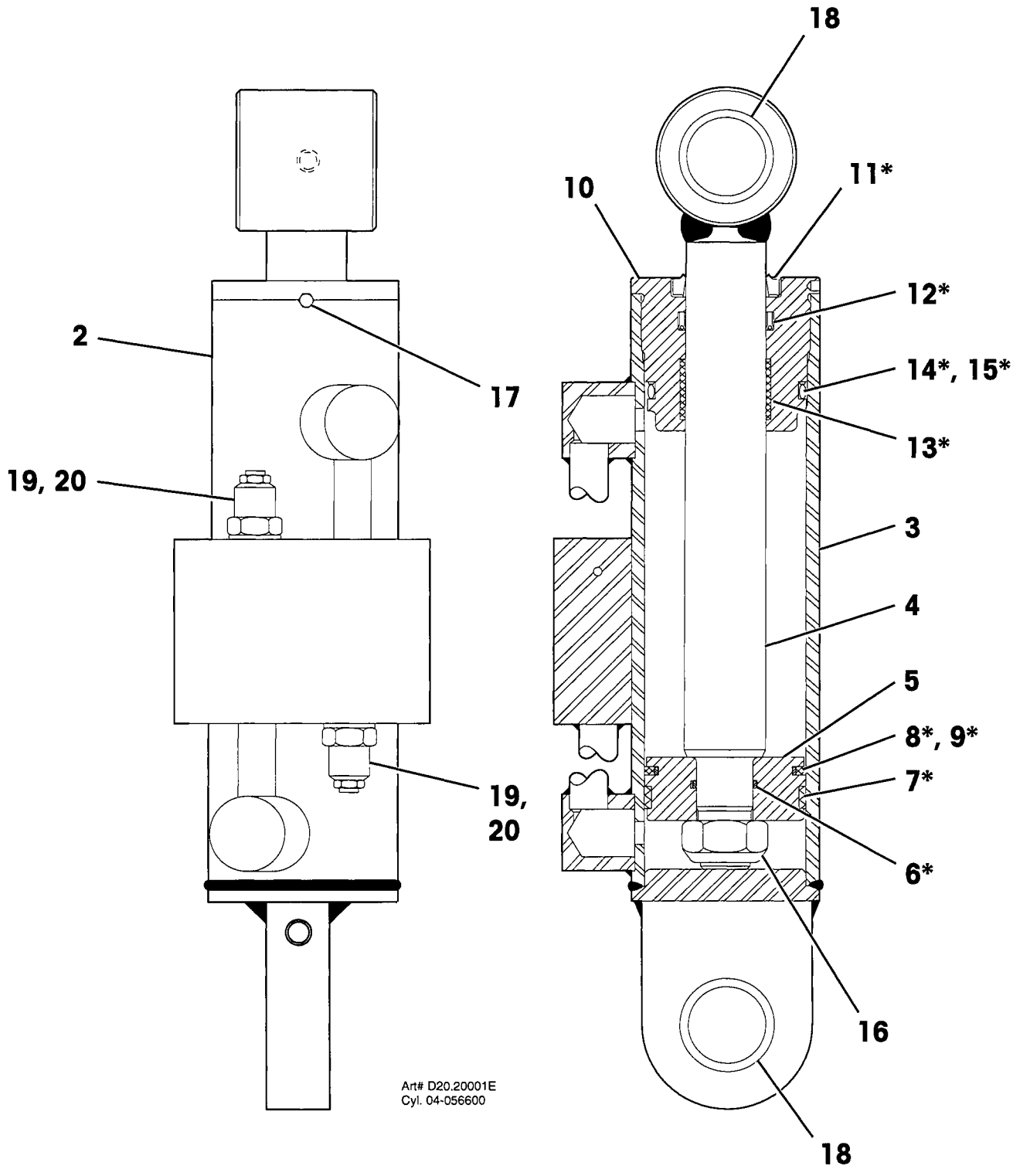
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Cylinder can be identified by Part Number "04056600" stamped on cylinder wall.	
1			SLAVE LEVEL CYLINDER ASSEMBLY	1
2	04-056600		SLAVE LEVEL CYLINDER	1
3			CASE, CYLINDER (Barrel Assembly)	1
4			ROD, CYLINDER	1
5			PISTON ASSEMBLY	1
6	*		"O"-RING	1
7	*		RING, PISTON WEAR	1
8	*		SEAL, PISTON	1
9	*		WASHER, BACKUP	1
10			GLAND, HEAD (Rod Bearing Assembly)	1
11	*		WIPER, ROD	1
12	*		SEAL, ROD	1
13	*		RING, ROD WEAR	1
14	*		"O"-RING	1
15	*		RING, BACKUP	1
16			NUT, PISTON ROD	1
17			SCREW, ROD BEARING LOCKING	1
18			BUSHING	4
19	01-227200		VALVE, COUNTERBALANCE (marked "CBCB-LHN") (factory set at 3000 psi [207 bar] [211 kg/ cm^2])	2
20	01-227201		SEAL KIT, COUNTERBALANCE VALVE	1
			The following item **is not** part of the cylinder assembly:	
21	04-056301		SEAL KIT (not for use with water-glycol hydraulic fluid) **Note:** Items in kit identified by asterisk (*).	1

TITLE: SLAVE LEVEL CYLINDER, 17-3/4" (.45 M) STROKE

SECTION D20. | PLATE NO. 20 | PAGE 01 | REV. - | DATED 30 APR., 1997 | PART NO. 04-056600

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172



Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172

TITLE

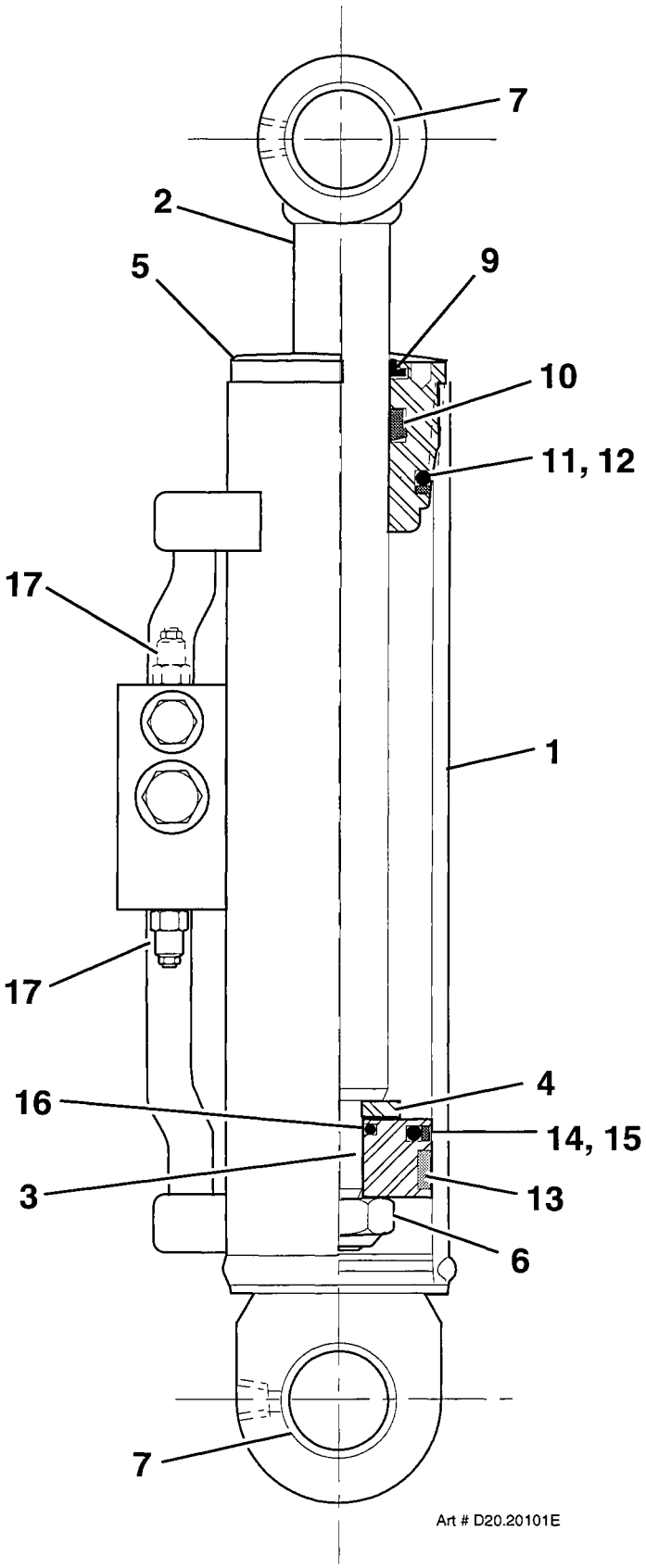
SLAVE LEVEL CYLINDER, 17-3/4" (.45 M) STROKE

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
04-056600	-	30 APR., 1997	D20.	20	01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Cylinder can be identified by Part Number "04039000SH" on nameplate located on valve block.	
1			CASE, CYLINDER	1
2			ROD, CYLINDER	1
3			PISTON	1
4			SPACER	1
5			GLAND, HEAD	1
6			NUT, LOCK	1
7			BUSHING	4
8	04-039001		SEAL KIT	1
9			WIPER, ROD	1
10			SEAL, ROD	1
11			"O"-RING	1
12			RING, BACKUP	1
13			RING, PISTON WEAR	1
14			"O"-RING	1
15			SEAL, PISTON	1
16			"O"-RING	1
17			VALVE, COUNTERBALANCE	
	04-028302		Type 1 (Valve is stamped "CB-C**G**-L**J**N")	2
	01-227200		Type 2 [Valve is stamped "CB-C**B**-L**H**N", and set at 3,000 PSI (207 Bar) (211 Kg/ cm^2)]	2
			Note: "Type 1" and "Type 2" valves are directly interchangeable, but **must be replaced in pairs**. When ordering a replacement valve, **(2) of "Type 2"** will be supplied unless otherwise specified.	
18			SEAL KIT, COUNTERBALANCE VALVE	
	04-028303		(for "Type 1" Valve)	1
	01-227201		(for "Type 2" Valve)	1

TITLE	SLAVE LEVEL CYLINDER, 7" (17.8 CM) STROKE			
PLATE NO.	D20.201	**SIMON AERIALS INC.** NEW 22 JUN., 1994	PART NO.	04-039000



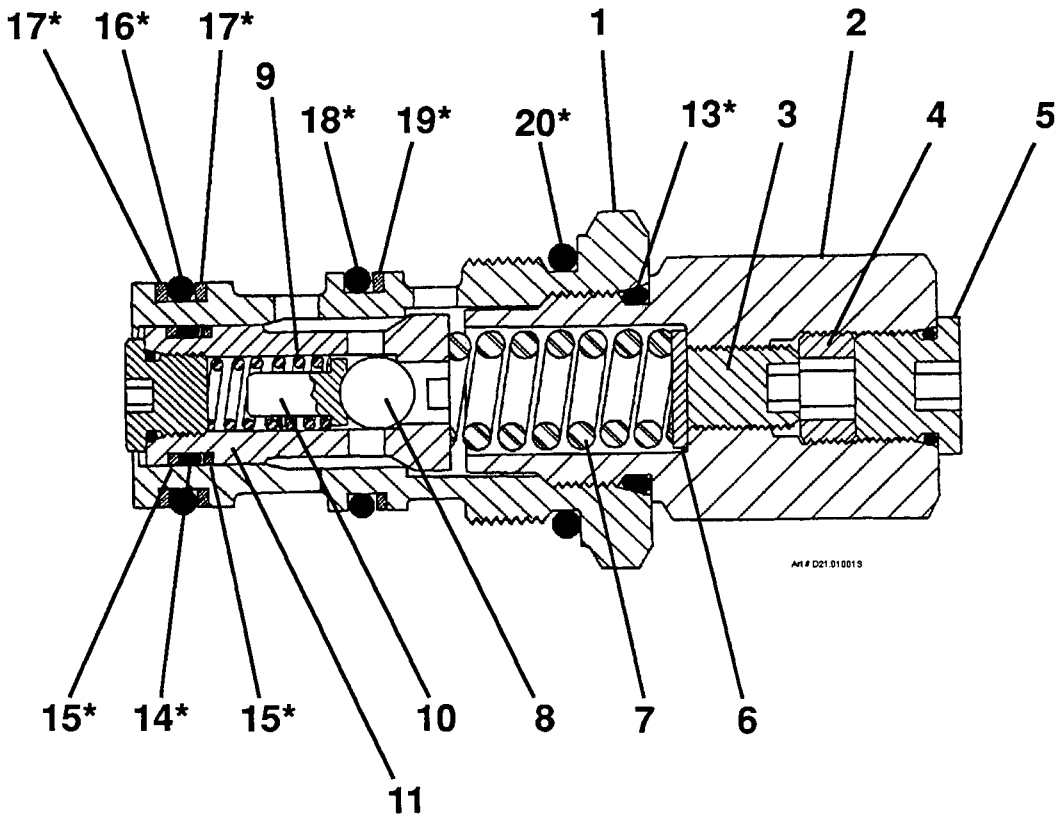
TITLE	SLAVE LEVEL CYLINDER, 7" (17.8 CM) STROKE		
SIMON AERIALS INC. NEW 22 JUN., 1994		PART NO. 04-039000	PLATE NO. D20.201

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			BODY, VALVE	1
2			CAP, HOLDING VALVE	1
3			SCREW, ADJUSTING	1
4			SCREW, LOCK	1
5			PLUG	1
6			WASHER	1
7			SPRING	1
8			BALL, CHECK	1
9			SPRING	1
10			PIN, STOP	1
11			SPOOL, PILOT	1
12	01-032501		SEAL KIT	1
			Note: Items in kit identified by asterisk (*).	
13			"O"-RING	1
14			"O"-RING	1
15			RING, BACKUP	2
16			"O"-RING	1
17			RING, BACKUP	2
18			"O"-RING	1
19			RING, BACKUP	1
20			"O"-RING	1

TITLE: HOLDING VALVE, SLAVE LEVELING CYLINDER

PLATE NO. D21.01 | **SIMON AERIALS INC.** REV. 05/02/91 | PART NO. 01-032500

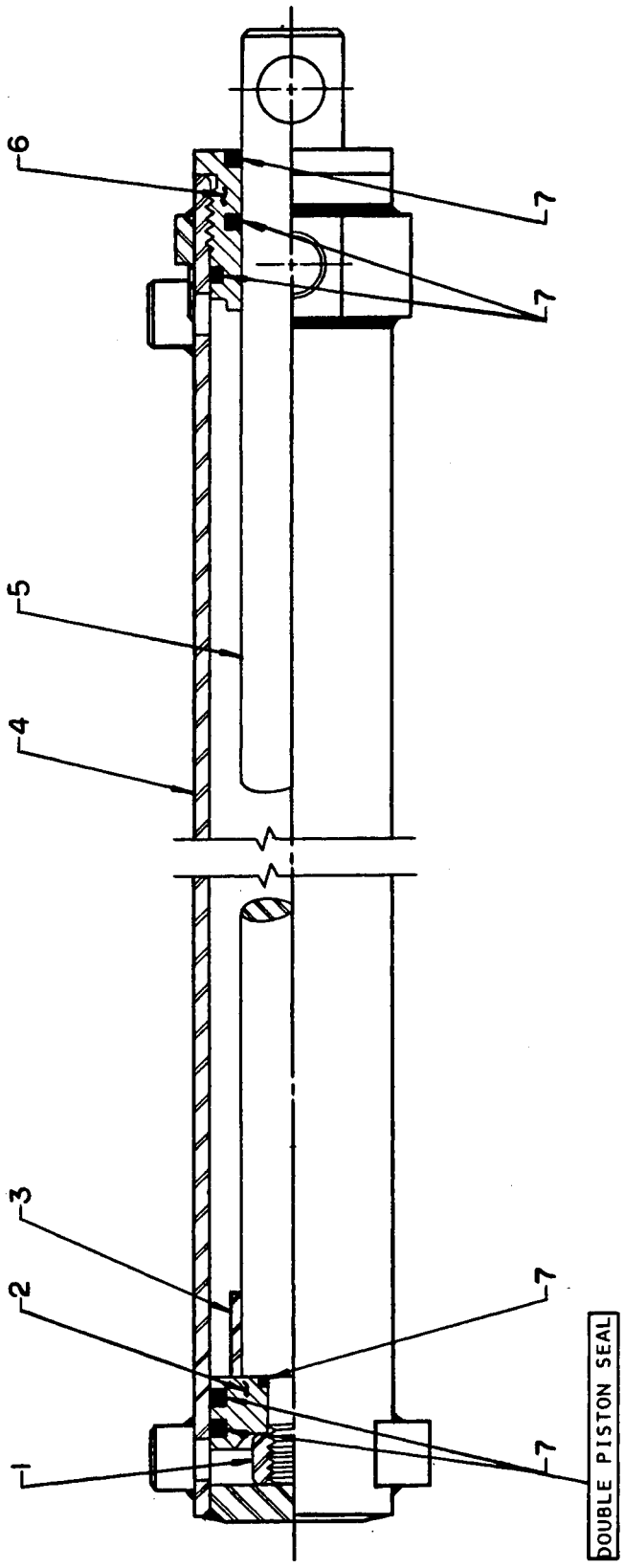


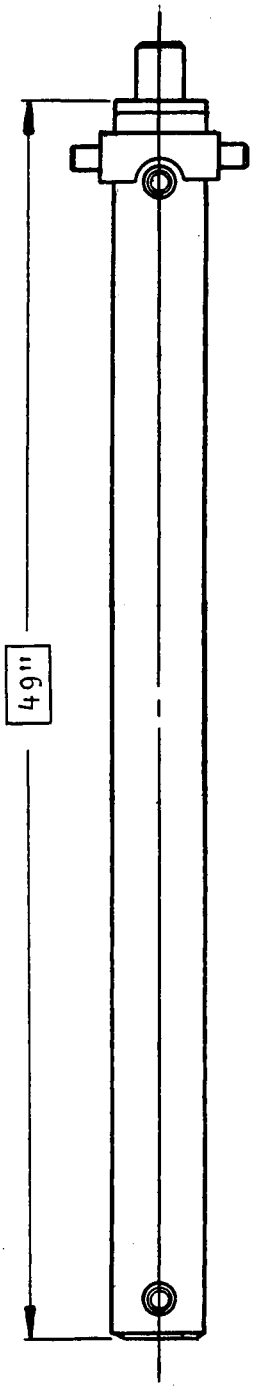
TITLE			
HOLDING VALVE, SLAVE LEVELING CYLINDER			
SIMON AERIALS INC. REV. 05/02/91	PART NO. 01-032500	PLATE NO. D21.01	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			PISTON NUT	1
2			PISTON	1
3			SPACER	1
4			CASE	1
5			ROD	1
6			HEAD GLAND	1
7	04-005101		SEAL KIT	

DESCRIPTION	PART NO.
AXLE EXTEND CYLINDER	04-005100





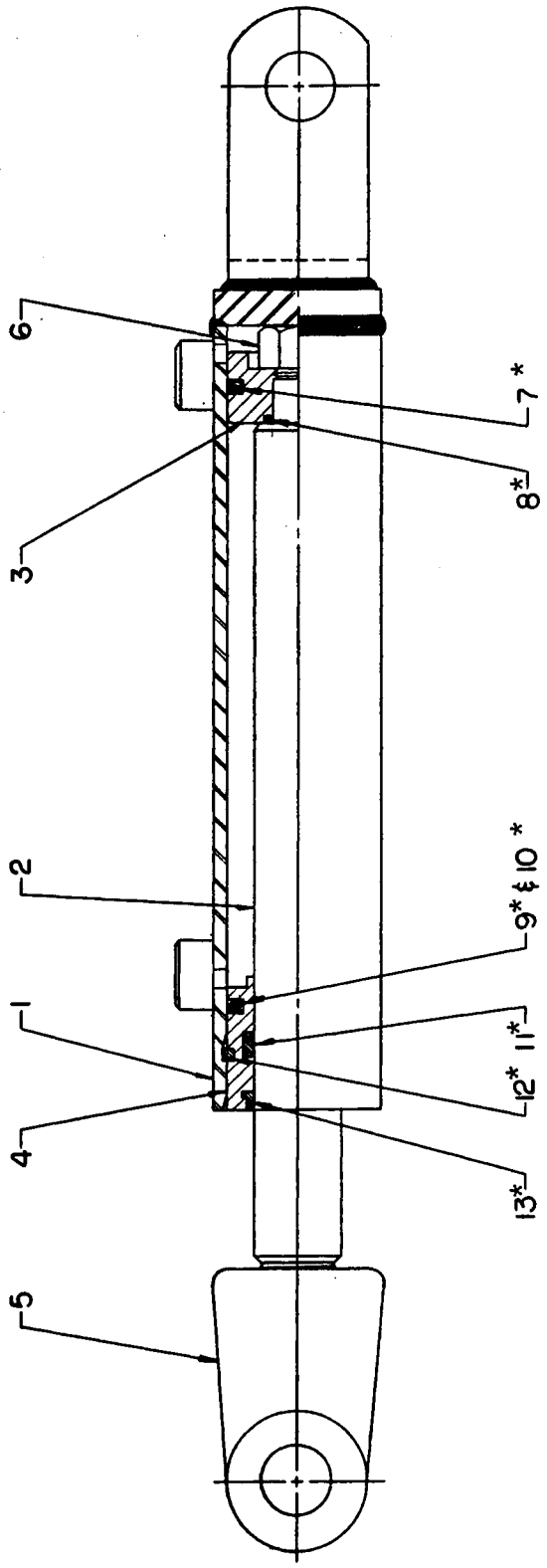
0484/1081

DESCRIPTION	PART NO.
AXLE EXTEND CYLINDER	04-005100

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			TUBE ASSEMBLY	1
2	04-003702		ROD	1
3			PISTON	1
4			GLAND	1
5	04-003403		CLEVIS ASSEMBLY	1
6			LOCKNUT	1
7*			URETHANE SEAL ASSEMBLY	1
8*			'O' RING	1
9*			'O' RING	1
10*			BACKUP WASHER	1
11*			U CUP	1
12			SQ. RETAINING RING	1
13*			WIPER	1
*	04-003701		SEAL KIT	1

DESCRIPTION	PART NO.
ROTATE CYLINDER	04-003700



NOTE:
* SEAL KIT P/N 04-003701

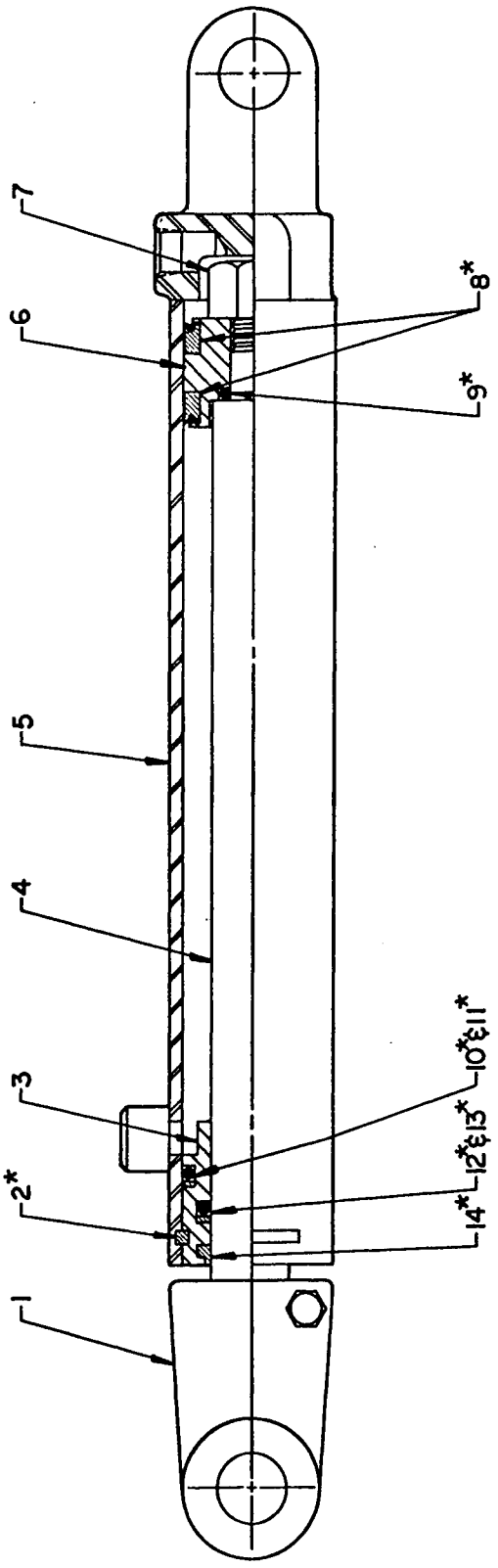
1283 /1178

DESCRIPTION	PART NO.
ROTATE CYLINDER	04-003700

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	04-003403		CLEVIS	1
2*			SQUARE RETAINING RING	1
3			HEAD GLAND	1
4			ROD	1
5			CASE	1
6			PISTON	1
7			PISTON NUT	1
8*			PISTON SEAL	2
9*			'O' RING	1
10*			'O' RING	1
11*			BACK-UP RING	1
12*			'O' RING	1
13*			BACK-UP RING	1
14*			WIPER	1
*	04-001501		SEAL KIT	1

DESCRIPTION	PART NO.
ROTATE CYLINDER	04-001500



NOTE:
* SEAL KIT P/N 04-001501

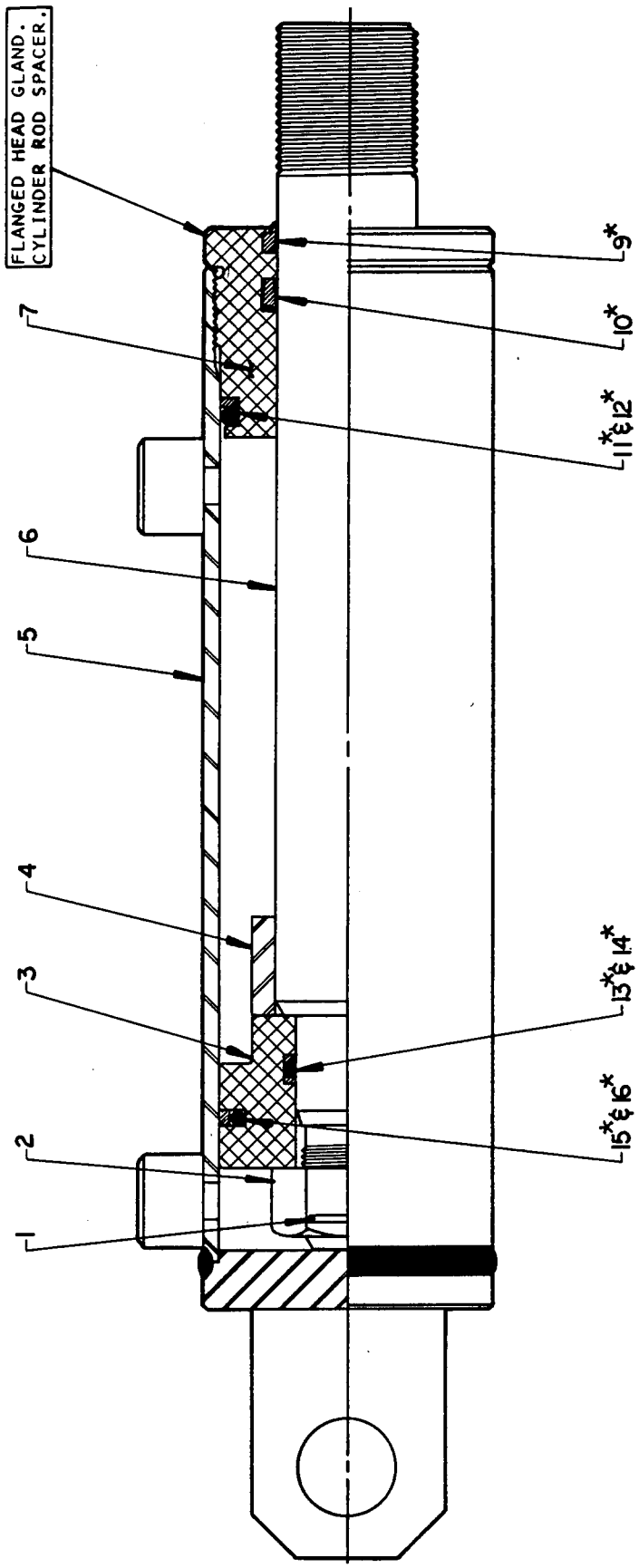
1184/0178

DESCRIPTION	PART NO.
ROTATE CYLINDER	04-001500

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			COTTER KEY	1
2			PISTON NUT	1
3			PISTON	1
4			SPACER	1
5			CASE	1
6	04-000502		ROD	1
7			HEAD GLAND	1
8				
9*			WIPER	1
10*			ROD SEAL	1
11*			'O' RING	1
12*			BACK-UP RING	1
13*			'O' RING	1
14*			BACK-UP RING	2
15*			PISTON SEAL	1
16*			'O' RING	1
*	04-000501		SEAL KIT	1

DESCRIPTION	PART NO.
ROTATE CYLINDER	04-000500



NOTE:
*SEAL KIT P/N 04-000501

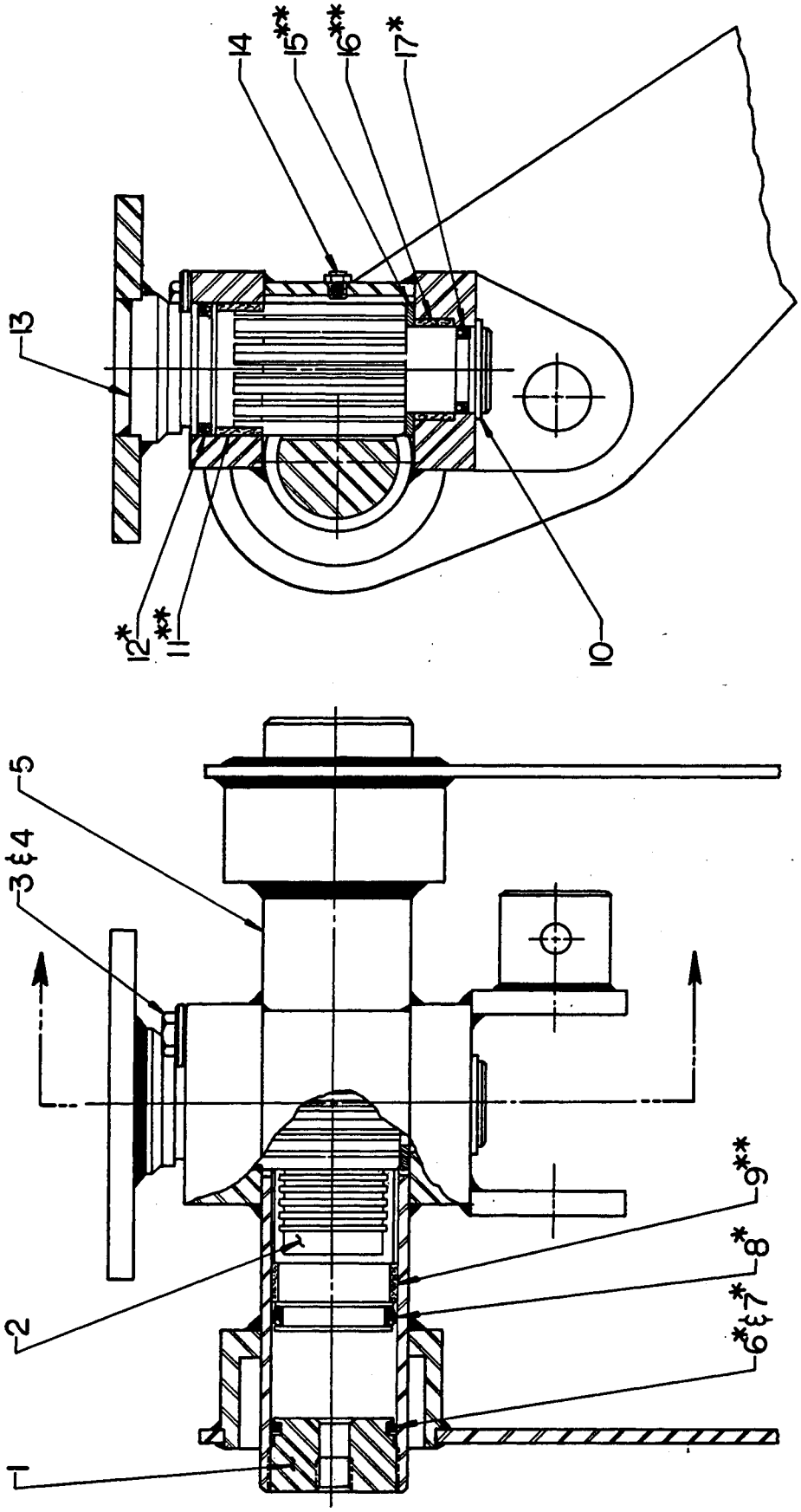
0585/1077

DESCRIPTION	PART NO.
ROTATE CYLINDER	04-000500

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			END CAP	2
2	02-004904		RACK	1
3			SAFETY BOLT	1
4			SAFETY WASHER	1
5*			HOUSING	1
6			"O"-RING	2
7*			BACK-UP RING	2
8*			RACK SEAL	2
9**			RACK WEARSTRIP	2
10			SNAP RING	1
11**			PINION SHAFT WEARSTRIP	1
12*			PINION SHAFT SEAL	1
13	02-04903		PINION	1
14			RELIEF VALVE	1
15**			THRUST RING	1
16**			PINION SHAFT WEARSTRIP	1
17*			PINION SHAFT SEAL	
*	02-004901		SEAL KIT	1
**	02-004902		BEARING KIT	1

DESCRIPTION	PART NO.
PLATFORM ROTARY ACTUATOR	SDW-207045-4



NOTE:
SEAL KIT P/ N 02-004901
BEARING KIT P/N 02-004902

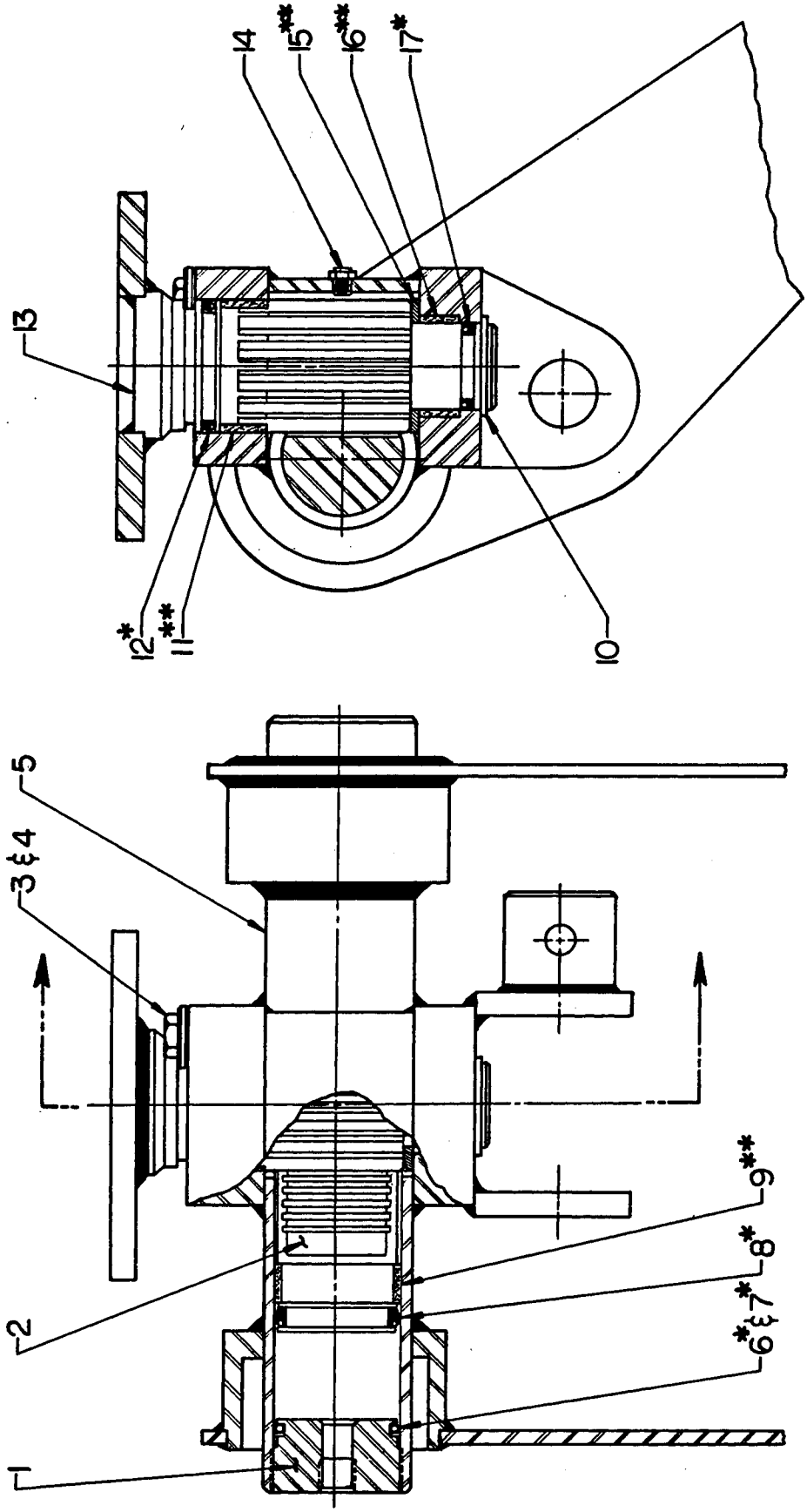
0584/0384

DESCRIPTION	PART NO.
PLATFORM ROTARY ACTUATOR	SDW-207045-4

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			END CAP	2
2			RACK	1
3			SAFETY BOLT	1
4			SAFETY WASHER	1
5			HOUSING	1
6*			"O" RING	2
7*			BACK-UP RING	2
8*			RACK SEAL	2
9**			RACK WEARSTRIP	2
10			SNAP RING	1
11**			PINION SHAFT WEARSTRIP	1
12*			PINION SHAFT SEAL	1
13			PINION	1
14			RELIEF VALVE	1
15**			THRUST RING	1
16**			PINION SHAFT WEARSTRIP	1
17*			PINION SHAFT SEAL	1
*	02-004901		SEAL KIT	1
**	02-004902		BEARING KIT	1

DESCRIPTION	PART NO.
PLATFORM ROTARY ACTUATOR	SDW-207045-4



NOTE:
* SEAL KIT P/N 02-004901
** BEARING KIT P/N 02-004902

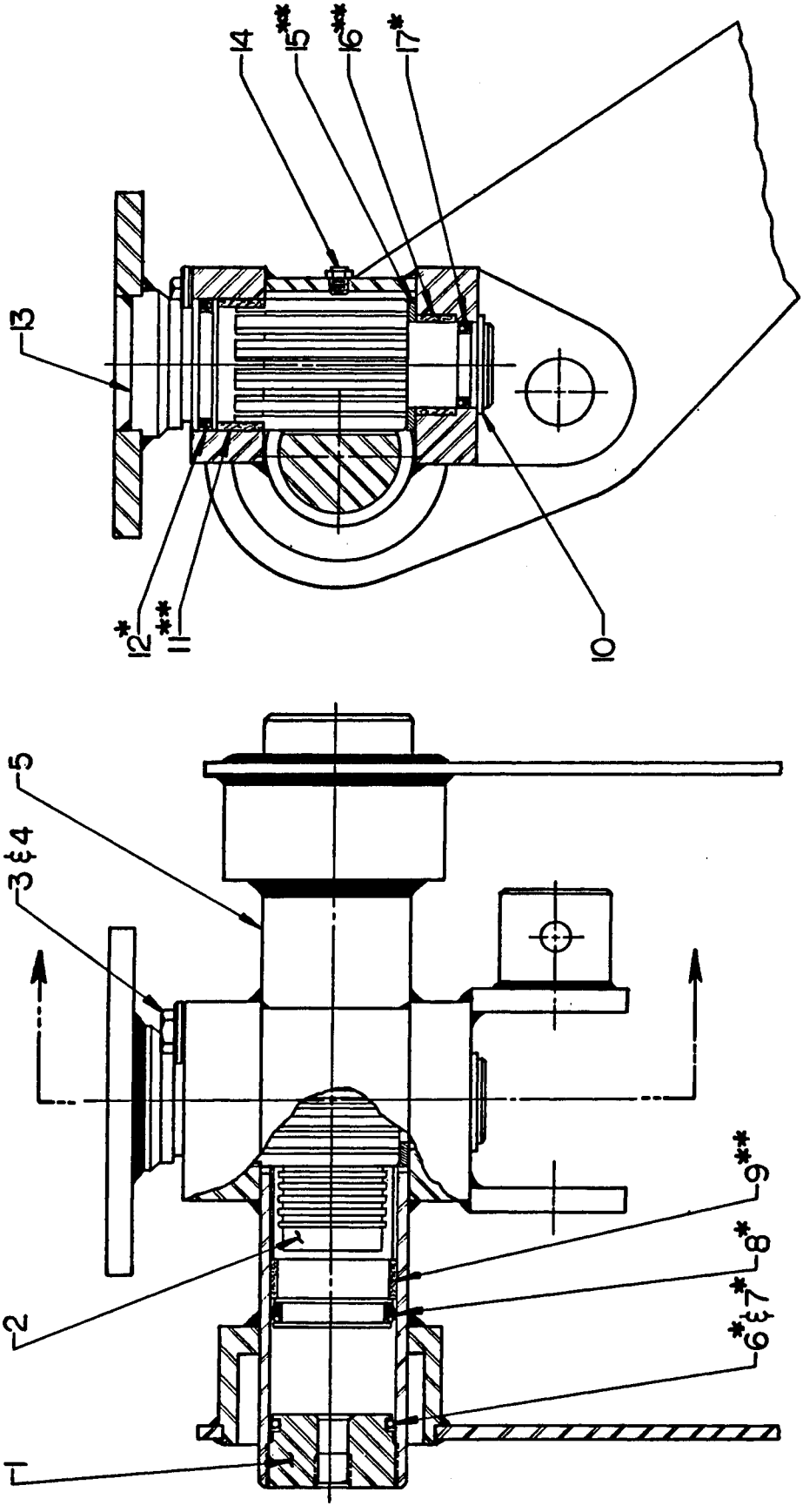
0984/0384

DESCRIPTION	PART NO.
PLATFORM ROTARY ACTUATOR	SDW-207045-4

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			END CAP	2
2			RACK	1
3			SAFETY BOLT	1
4			SAFETY WASHER	1
5			HOUSING	1
6*			"O" RING	2
7*			BACK-UP RING	2
8*			RACK SEAL	2
9**			RACK WEARSTRIP	2
10			SNAP RING	1
11**			PINION SHAFT WEARSTRIP	1
12*			PINION SHAFT SEAL	1
13			PINION	1
14			RELIEF VALVE	1
15**			THRUST RING	1
16**			PINION SHAFT WEARSTRIP	1
17*			PINION SHAFT SEAL	1
*	02-004901		SEAL KIT	1
**	02-004902		BEARING KIT	1

DESCRIPTION	PART NO.
PLATFORM ROTARY ACTUATOR	SDW-207327-1



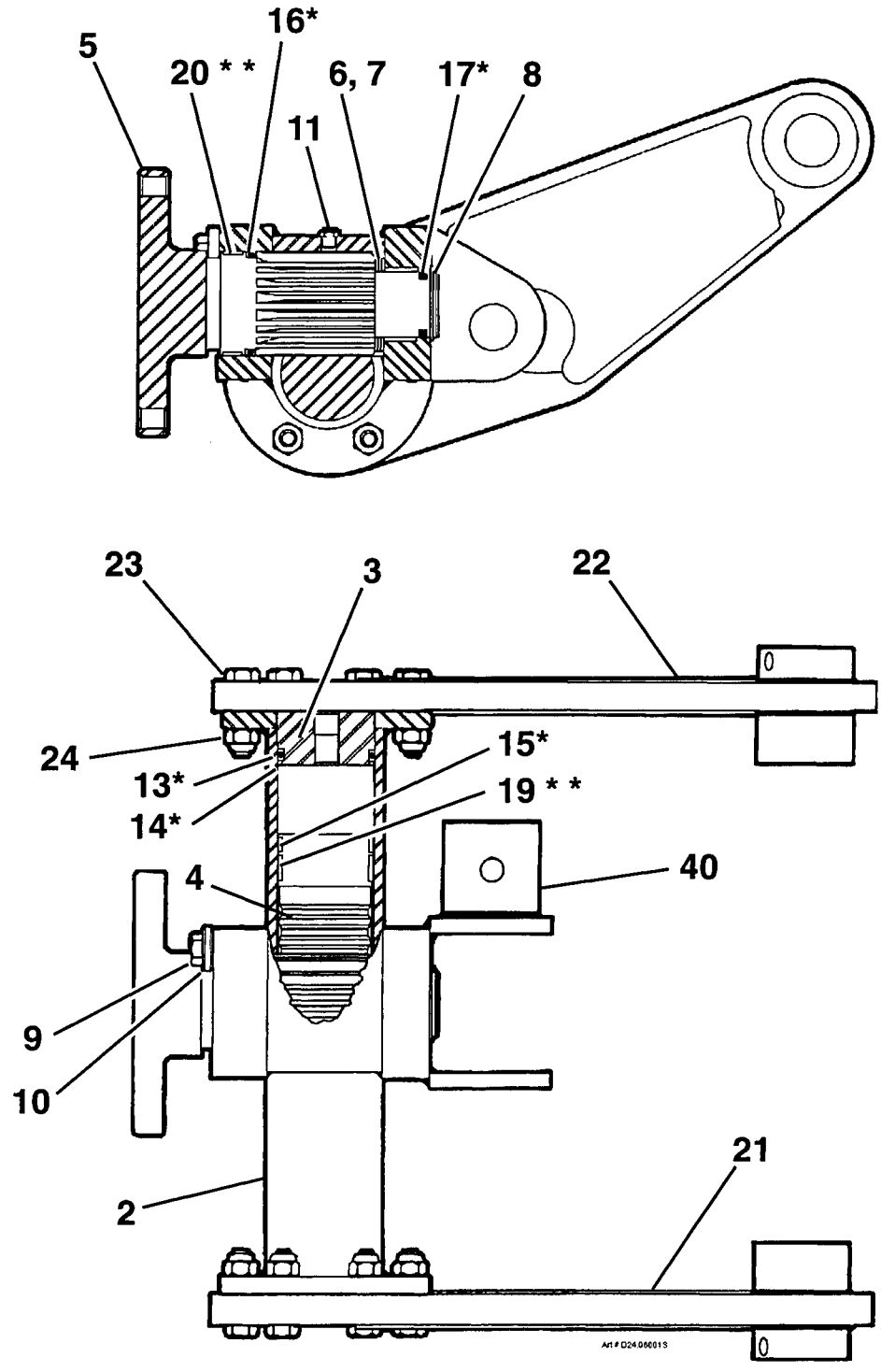
NOTE:
* SEAL KIT P/N 02-004901
** BEARING KIT P/N 02-004902

DESCRIPTION	PART NO.
PLATFORM ROTARY ACTUATOR	SDW-207327-1

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			ACTUATOR ASSEMBLY, ROTARY (includes "Type 1" arms) ["Type 1" arms are 1" (25.4 mm) thick steel, and have a large cutout covered by metal plates on each side.]	1
	3523560		for MP series with "bent tip" boom	
	3523570		for MP series with "straight tip" boom	
	3525120		for MPN series with "bent tip" boom	
	3523580		for MPN series with "straight tip" boom	
			ACTUATOR ASSEMBLY, ROTARY (includes "Type 2" arms) ["Type 2" arms are 3/4" (19 mm) thick steel, and have a small cutout on the side which is not covered.]	1
	3530020		for MP series with "bent tip" boom	
	3530030		for MP series with "straight tip" boom	
	3530040		for MPN series with "straight tip" boom	
1	02-010600		ACTUATOR ASSEMBLY, ROTARY (without arms)	1
2	02-010605		HOUSING, ROTARY ACTUATOR	1
3	02-010612		CAP, END	2
4	02-010609		RACK	1
5	02-010607		SHAFT, PINION	1
6	02-010604		WASHER	4
7	02-010603		BEARING, NEEDLE	2
8	02-010608		SNAP RING	1
9			BOLT, SAFETY	1
10			WASHER, SAFETY	1
11	02-010606		VALVE, RELIEF	1
12			SEAL KIT	
	02-010601		for actuators with serial number below 13233.	1
	02-010610		for actuators with serial number 13233 and up. **Note:** These seal kits not for water-glycol fluid. Items in seal kit are identified by asterisk (*).	1
13			"O"-RING	2
14			RING, BACK-UP	2
15			SEAL, RACK	2
16			SEAL, PINION SHAFT (upper)	1
17			SEAL, PINION SHAFT (lower)	1
18			BEARING KIT	
	02-010602		for actuators with serial number below 13233.	1
	02-010611		for actuators with serial number 13233 and up. **Note:** Items in kit identified by double asterisk (* *).	1
19			WEAR STRIP, RACK	2
20			WEAR STRIP, PINION SHAFT	1

TITLE	PLATFORM ROTARY ACTUATOR (PLATE 1 OF 3)		
PLATE NO. D24.06	**SIMON AERIALS INC.** REV. 02 MAY, 1994	PART NO. 02-010600	



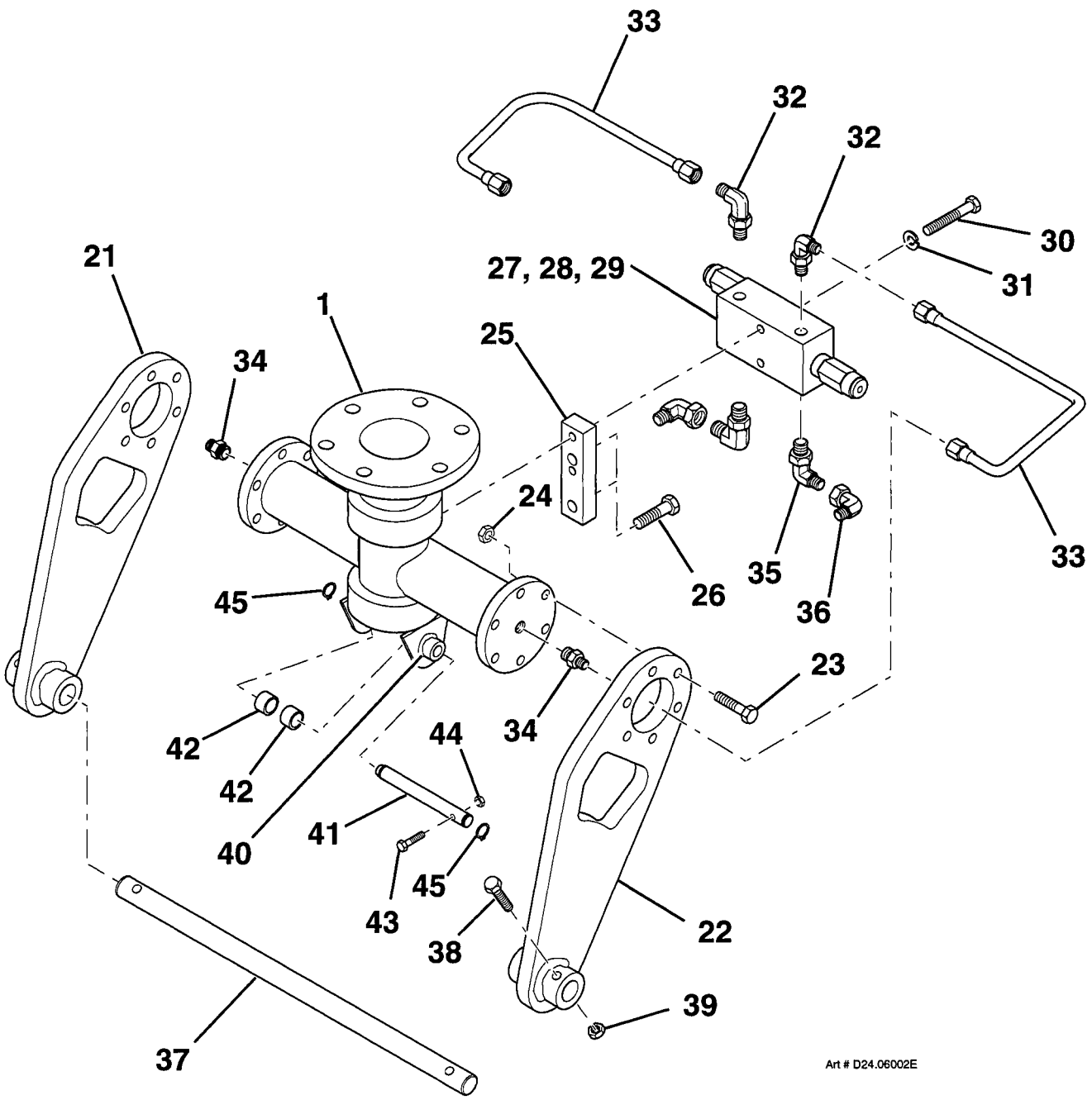
TITLE	PLATFORM ROTARY ACTUATOR (PLATE 1 OF 3)		
SIMON AERIALS INC.	REV. 22 NOV., 1994 THIS SHEET ONLY	PART NO. 02-010600	PLATE NO. D24.06

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
21			ARM, ROTARY ACTUATOR (right) ("Type 1")	
			["Type 1" arms are 1" (25.4 mm) thick steel, and have a large cutout covered by metal plates on each side.]	
			Note: "Type 1" arms are illustrated on previous page.	1
	2103090		MP series with "bent tip" boom	1
	2109500		MP series with "straight tip" boom	1
	2103330		MPN series with "bent tip" boom	1
	2109590		MPN series with "straight tip" boom	1
			ARM, ROTARY ACTUATOR (right) ("Type 2")	
			["Type 2" arms are 3/4" (19 mm) thick steel, and have a small cutout on the side which is not covered.]	
			Note: "Type 2" arms are illustrated on facing page.	1
	2199260		MP series with "bent tip" boom	1
	2300660		MP series with "straight tip" boom	1
	2191370		MPN series with "straight tip" boom	1
22			ARM, ROTARY ACTUATOR (left) ("Type 1")	
			["Type 1" arms are 1" (25.4 mm) thick steel, and have a large cutout covered by metal plates on each side.]	
			Note: "Type 1" arms are illustrated on previous page.	1
	2103010		MP series with "bent tip" boom	1
	2109510		MP series with "straight tip" boom	1
	2103320		MPN series with "bent tip" boom	1
	2109580		MPN series with "straight tip" boom	1
			ARM, ROTARY ACTUATOR (left) ("Type 2")	
			["Type 2" arms are 3/4" (19 mm) thick steel, and have a small cutout on the side which is not covered.]	
			Note: "Type 2" arms are illustrated on facing page.	1
	2199270		MP series with "bent tip" boom	1
	2300670		MP series with "straight tip" boom	1
	2191380		MPN series with "straight tip" boom	1

TITLE PLATFORM ROTARY ACTUATOR (PLATE 2 OF 3)

PLATE NO. D24.06 | **SIMON AERIALS INC.** REV. 02 MAY, 1994 | **PART NO.** 02-010600

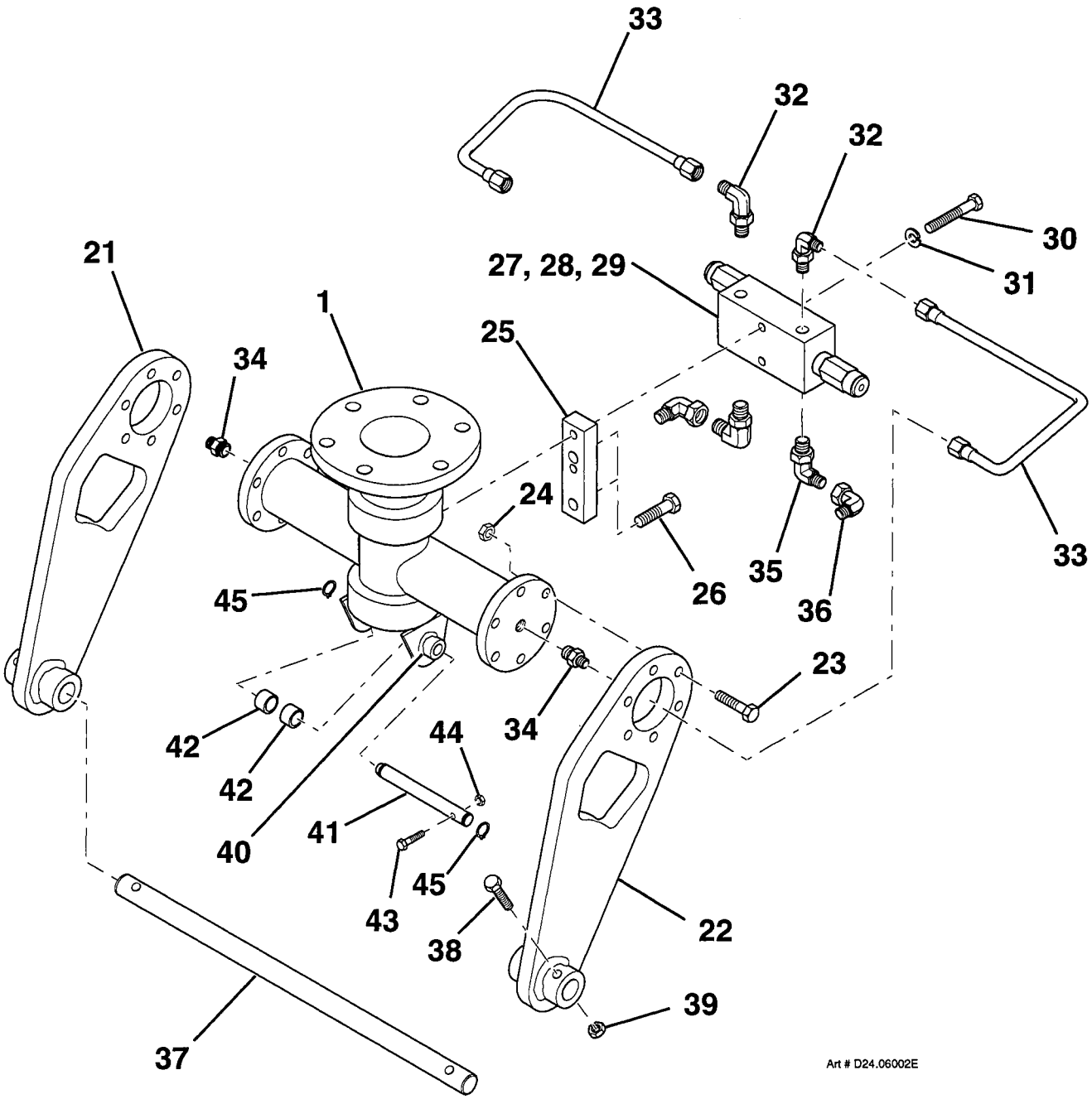


TITLE	PLATFORM ROTARY ACTUATOR (PLATE 2 OF 3)		
SIMON AERIALS INC. REV. 02 MAY, 1994	PART NO. 02-010600	PLATE NO. D24.06	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
23			CAP SCREW, HEX HEAD	
	07-003090		(1/2"-13 x 2-1/4", Grade 5. For "Type 1" arm)	12
	07-003089		(1/2"-13 x 2", Grade 5. For "Type 2" arm)	12
24	07-058400		NUT, HEX LOCK (1/2"-13, Grade 8)	12
25	2111850		SPACER, RELIEF/ CHECK VALVE MOUNTING	1
26	07-008043		CAP SCREW, SOCKET HEAD (3/8"-16 x 3/4", Grade 8)	2
27	01-202000		MANIFOLD, RELIEF/ CHECK VALVE	1
28	01-202001		CARTRIDGE, RELIEF VALVE	1
29	01-202002		CARTRIDGE, CHECK VALVE	1
30	07-003049		CAP SCREW, HEX HEAD (3/8"-16 x 2", Grade 5) **Or**	2
	07-003052		CAP SCREW, HEX HEAD (3/8"-16 x 2-3/4", Grade 5) **Or**	2
	07-003053		CAP SCREW, HEX HEAD (3/8"-16 x 3", Grade 5)	2
31	07-065016		WASHER, HELICAL LOCK (3/8")	2
32	06-044600		90° ELBOW, STRAIGHT THREAD (6 C50X-S)	2
33	3530460		TUBE ASSEMBLY	2
34	06-039900		ADAPTER, "O"-RING TO 37° (6-8 F50X-S)	2
35	06-044400		90° ELBOW, STRAIGHT THREAD (4-66 C50X-S)	2
36	06-051300		90° ELBOW, SWIVEL NUT (4 C6X-S)	2
37			PIN, PLATFORM PIVOT (1-1/4" x 20")	
	2102940		except Canada	1
	2194480		CSA standards	1
38	07-003049		CAP SCREW, HEX HEAD (3/8"-16 x 2", Grade 5) **Or**	2
	07-003052		CAP SCREW, HEX HEAD (3/8"-16 x 2-3/4", Grade 5) **Or**	2
	07-003053		CAP SCREW, HEX HEAD (3/8"-16 x 3", Grade 5)	2
39	07-050016		NUT, HEX LOCK (3/8"-1, Grade 5)	2
40	2080459		TUBE, PIN RETAINER	1
41			PIN, SLAVE CYLINDER (Rod end) (1-1/4" x 4-7/8")	
	2068884		except Canada	1
	2194500		CSA standards	1
42	2068444		SPACER, SLAVE CYLINDER	2
43	07-003093		CAP SCREW, HEX HEAD (1/2"-13 x 3", Grade 5)	1
44	07-058400		NUT, HEX LOCK (1/2"-13, Grade 8)	1
45	08-040700		RING, SNAP (1-1/4")	2

TITLE	PLATFORM ROTARY ACTUATOR (PLATE 3 OF 3)				
PLATE NO.	D24.06	**SIMON AERIALS INC.**	REV. 22 NOV., 1994 THIS SHEET ONLY	PART NO.	02-010600



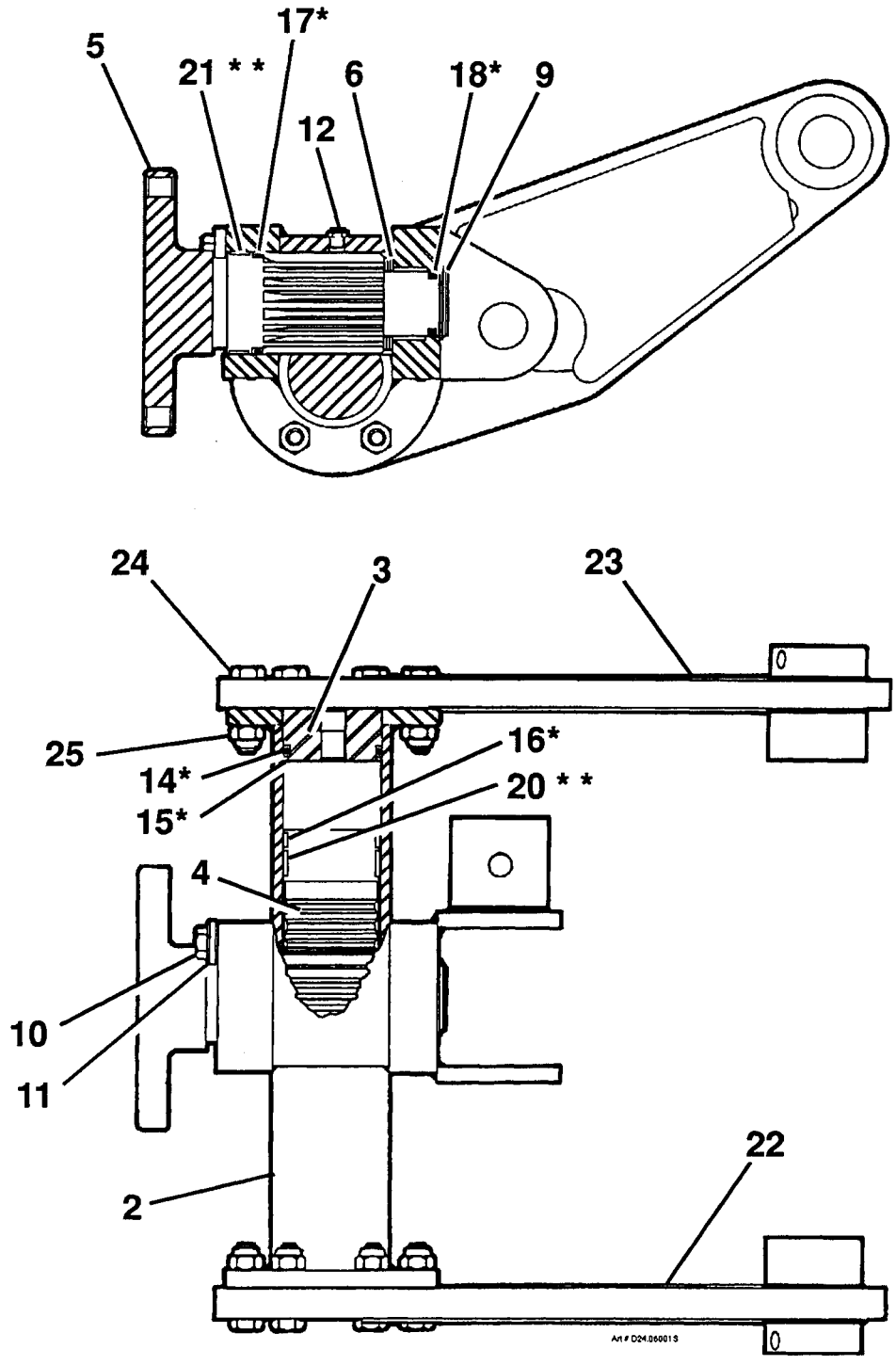
TITLE	PLATFORM ROTARY ACTUATOR (PLATE 3 OF 3)		
SIMON AERIALS INC. REV. 02 MAY, 1994	PART NO. 02-010600	PLATE NO. D24.06	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	02-032300		ACTUATOR ASSEMBLY, ROTARY (without arms)	1
2	02-010605		HOUSING, ROTARY ACTUATOR	1
3	02-010612		CAP, END	2
4	02-010609		RACK	1
5	02-010607		SHAFT, PINION	1
6	02-010604		WASHER, THRUST	3
7	02-010603		BEARING, NEEDLE	1
8			WASHER	2
9	02-010608		SNAP RING	1
10			BOLT, SAFETY	1
11			WASHER, SAFETY	1
12	02-010606		VALVE, RELIEF	1
13	02-032301		SEAL KIT (can be used with water-glycol fluid)	1
			Note: Items in kit identified by asterisk (*).	
14			"O"-RING	2
15			RING, BACK-UP	2
16			SEAL, RACK	2
17			SEAL, PINION SHAFT (upper)	1
18			SEAL, PINION SHAFT (lower)	1
19	02-010602		BEARING KIT (for actuators with serial no. below 13233)	1
	02-010611		BEARING KIT (for actuators with serial no. 13233 and up)	1
			Note: Items in kit identified by double asterisk (* *).	
20			WEAR STRIP, RACK	2
21			WEAR STRIP, PINION SHAFT	1
			The following items are not part of the actuator assembly:	
22	2103090		ARM WELDMENT (right) (MP series with bent tip boom)	1
	2109500		ARM WELDMENT (right) (MP series with straight tip boom)	1
	2103330		ARM WELDMENT (right) (MPN series with bent tip boom)	1
	2109590		ARM WELDMENT (right) (MPN series with straight tip boom)	1
23	2103010		ARM WELDMENT (left) (MP series with bent tip boom)	1
	2109510		ARM WELDMENT (left) (MP series with straight tip boom)	1
	2103320		ARM WELDMENT (left) (MPN series with bent tip boom)	1
	2109580		ARM WELDMENT (left) (MPN series with straight tip boom)	1
24	07-003090		CAP SCREW, HEX HEAD (1/2"-13 x 2-1/4", Grade 5)	12
25			NUT, HEX LOCK (1/2"-13)	12

TITLE: PLATFORM ROTARY ACTUATOR

PLATE NO. D24.07 | **SIMON AERIALS INC.** REV. 05/13/91 | PART NO. 02-032300

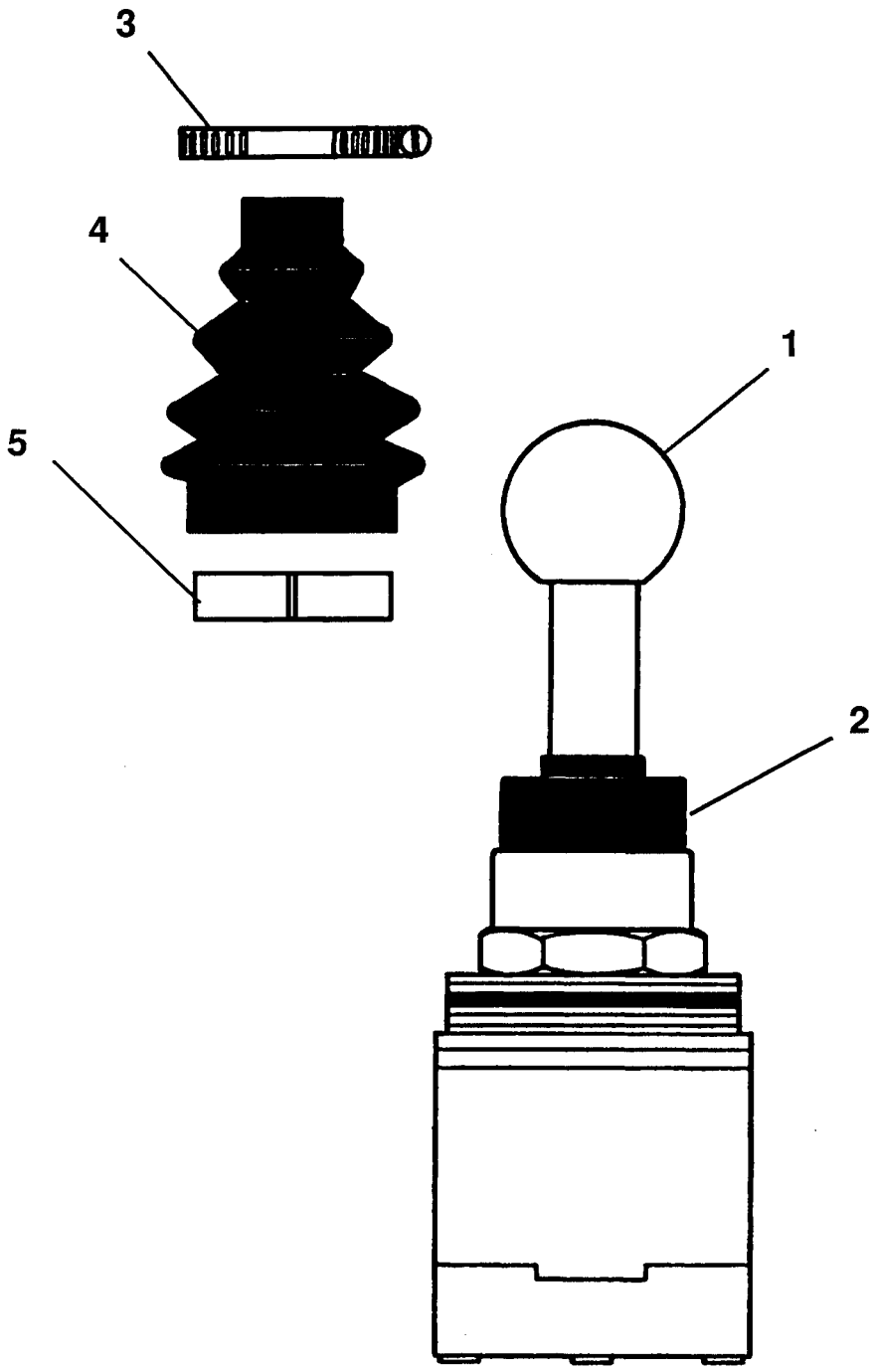


TITLE	PLATFORM ROTARY ACTUATOR		
SIMON AERIALS INC. REV. 05/13/91	PART NO. 02-032300	PLATE NO. D24.07	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-021801		KNOB	1
2	03-021802		BOOT	1
3			BOOT CLAMP (Optional)	1
4	03-022702		BOOT W/ CLAMP (Optional)	1
5	200183-8		RING (Optional)	1

TITLE	JOYSTICK CONTROLLER (5 POSITION)		
PLATE NO. E01.03	**SIMON AERIALS INC.**	REV. 08/08/91	PART NO. 03-021800

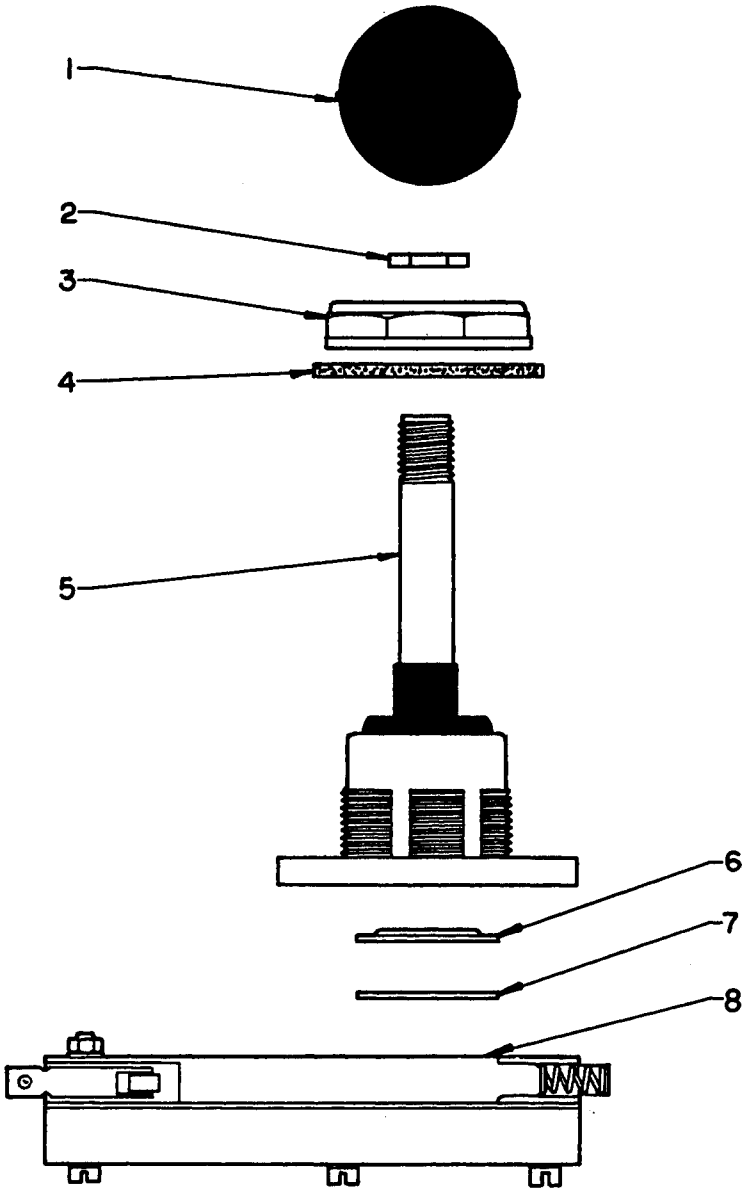


TITLE	JOYSTICK CONTROLLER (5 POSITION)		
SIMON AERIALS INC. REV. 08/08/91	PART NO. 03-021800	PLATE NO. E01.03	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	03-061601		KNOB	1
2			JAM NUT	1
3			RETAINING NUT	1
4			GASKET	1
5			HANDLE	1
6			COMMON GATE	1
7			POSITION GATE (8 POSITION)	1
8			MECHANISM	1

DESCRIPTION	PART NO.
JOYSTICK (8 POSITION)	03-061600



0784/0983

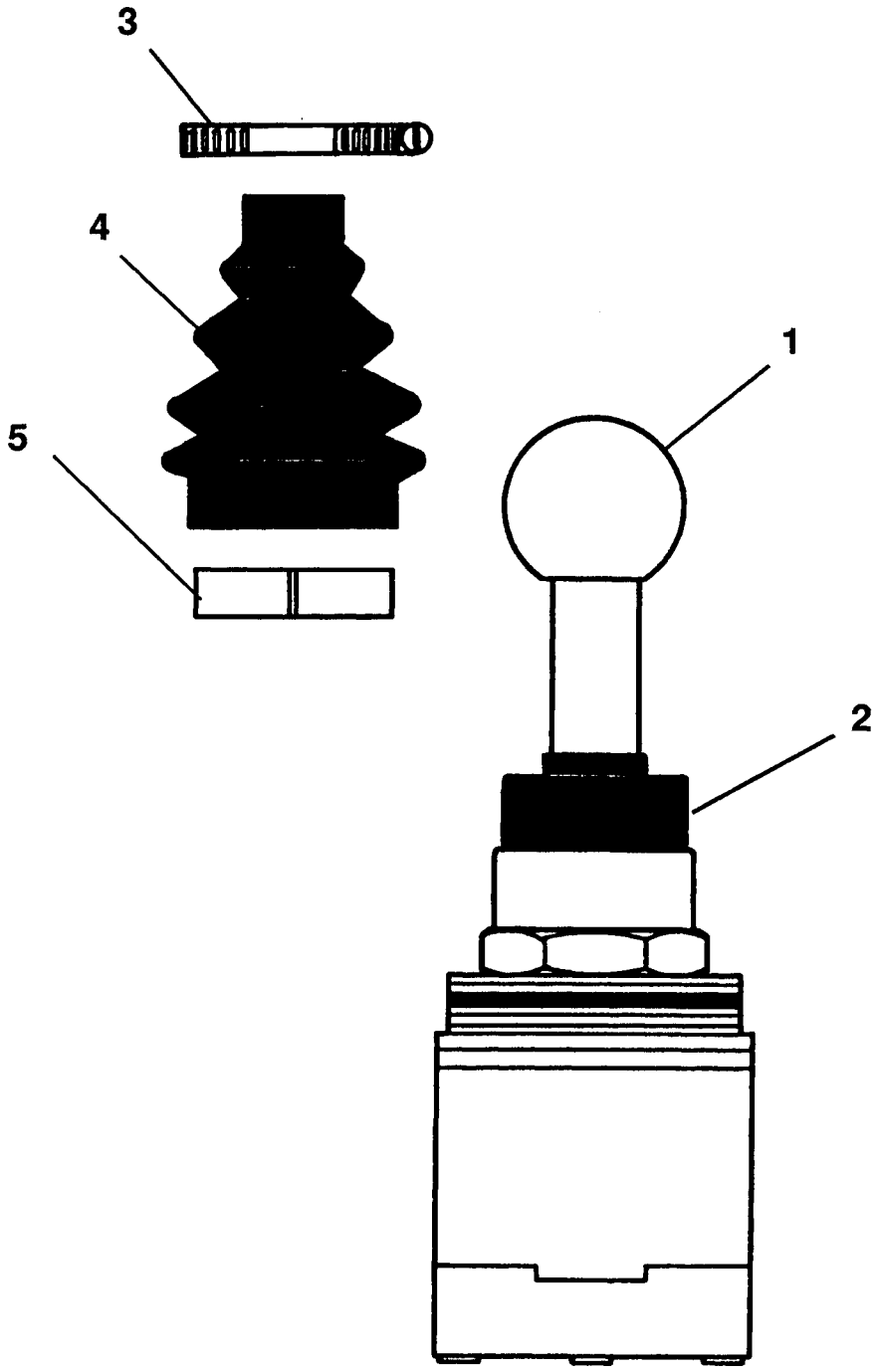
DESCRIPTION		PART NO.
	JOYSTICK (8 POSITION)	03-061600

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-021801		KNOB	1
2	03-021802		BOOT	1
3			BOOT CLAMP (Optional)	1
4	03-022702		BOOT W/ CLAMP (Optional)	1
5	200183-8		RING (Optional)	1

TITLE JOYSTICK CONTROLLER (3 POSITION)

PLATE NO. E01.05 | **SIMON AERIALS INC.** REV. 08/08/91 | PART NO. 03-021900



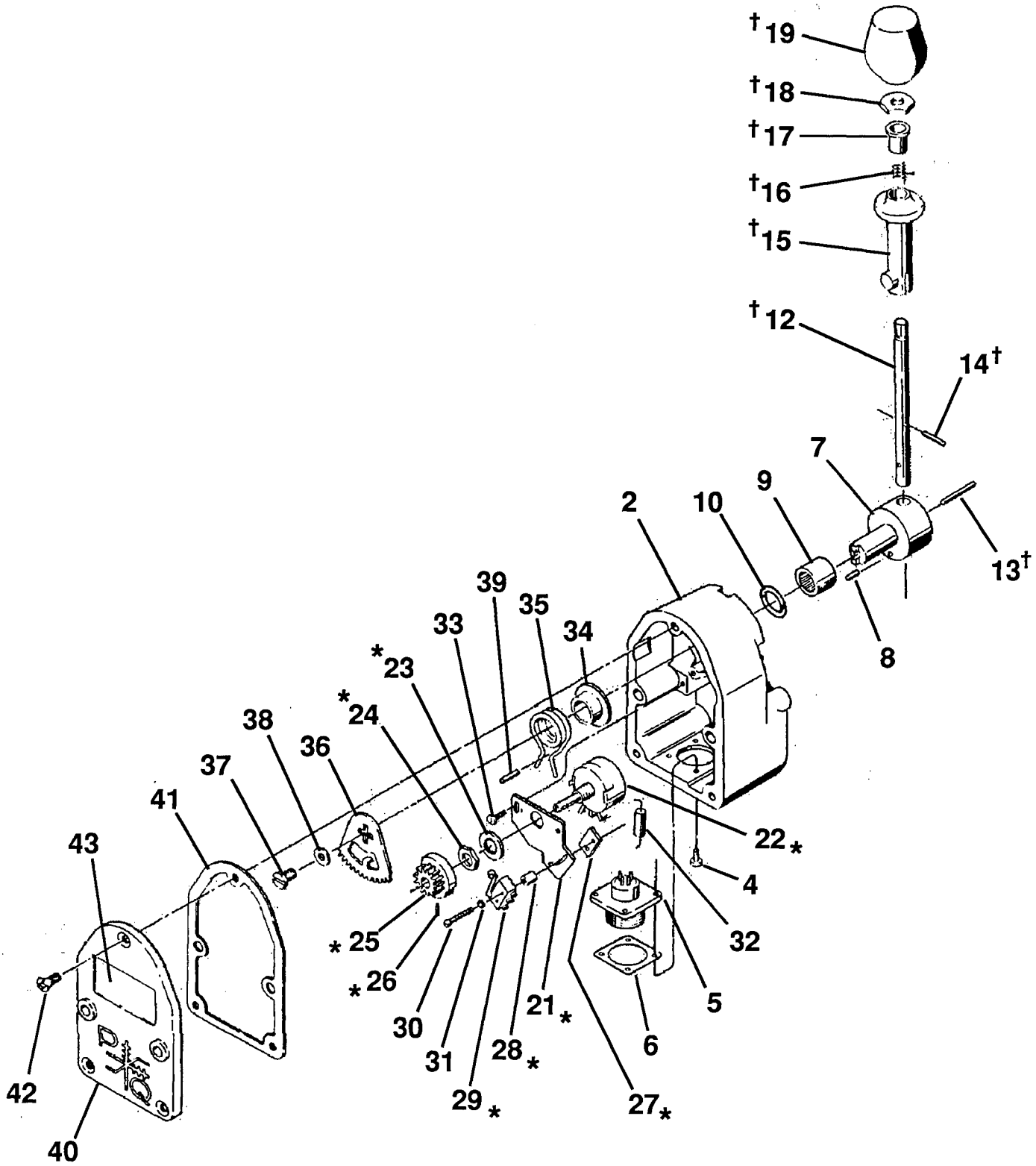
TITLE	JOYSTICK CONTROLLER (3 POSITION)		
SIMON AERIALS INC. REV. 08/08/91	PART NO. 03-021900	PLATE NO. E01.05	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			CONTROLLER ASSEMBLY, JOYSTICK	
	03-027400		Telescope function (supercedes 03-027202)	1
	03-027500		Lift function (supercedes 03-027204)	1
	03-027600		Swing function (supercedes 03-027205)	1
	03-027700		Drive function (supercedes 03-027203)	1
	03-027202		Telescope function (superceded by 03-027400)	1
	03-027204		Lift function (superceded by 03-027500)	1
	03-027205		Swing function (superceded by 03-027600)	1
	03-027203		Drive function (superceded by 03-027700)	1
2			HOUSING, JOYSTICK CONTROLLER	
	03-027226		for Drive or Telescope controller	1
	03-027227		for Lift or Swing controller	1
3			GROMMET, LATHE CUT (not shown)	1
4			MACHINE SCREW, PAN HEAD	4
5			RECEPTACLE, MS	1
6			GASKET, MS CONNECTOR	1
7	03-027230		HANDLE, CONTROL	1
8			PIN, GROOVED	1
9			BEARING	1
10			"O"-RING	1
11	03-027207		HANDLE ASSEMBLY [includes all items with dagger (†)]	1
12	03-027235		EXTENSION, CONTROL HANDLE	1
13			PIN, GROOVED	1
14	03-027218		PIN, GROOVED	1
15	03-027221		SLIDE LOCK, CONTROL HANDLE	1
16	03-027215		SPRING, SLIDE LOCK	1
17	03-027219		SLEEVE, HANDLE	1
18			NUT, HEX	1
19	03-027220		KNOB, BALL	1

TITLE JOYSTICK CONTROLLER (PLATE 1 OF 2)

PLATE NO. E01.06 | **SIMON AERIALS INC.** REV. 26 APR., 1993 | PART NO.



0485 / 0385

TITLE	JOYSTICK CONTROLLER (PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 26 APR., 1993		PART NO.	PLATE NO. E01.06

PARTS LIST

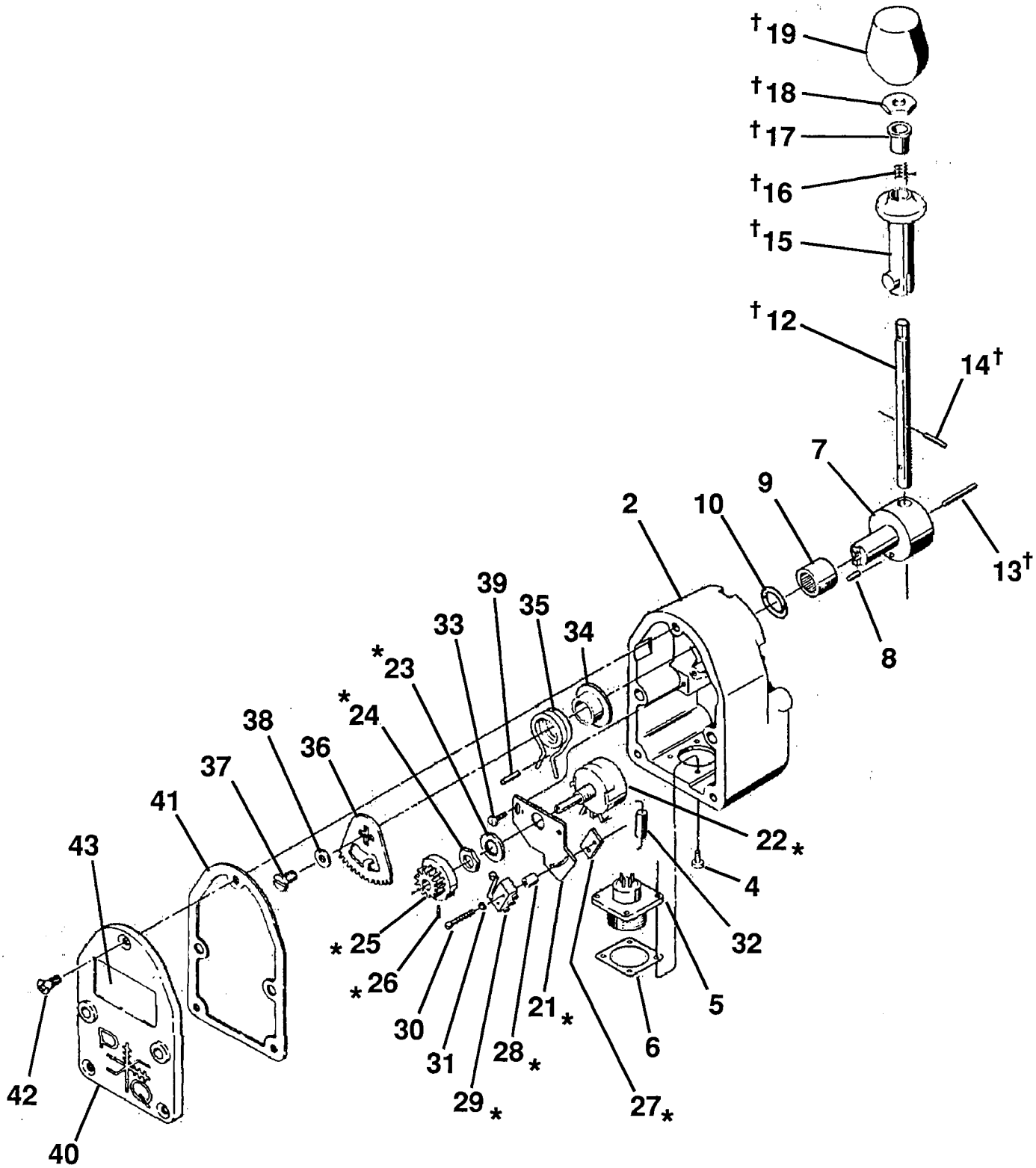
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
20			ELECTRICAL ASSEMBLY [all items with asterisk (*)]	1
	03-027208		for Telescope controller	1
	03-027209		for Drive controller	1
	03-027210		for Lift controller	1
	03-027211		for Swing controller	1
21			PLATE, POTENTIOMETER MOUNTING	1
22	03-027231		POTENTIOMETER	1
23			LOCK WASHER, INTERNAL TOOTH	1
24			NUT, HEX	1
25			SPUR GEAR AND CAM	1
26			SET SCREW, HEX SOCKET	1
27			PLATE, FASTENER	1
28			SPACER	2
29	03-027217		SWITCH, ROLLER LEVER	1
30			MACHINE SCREW, FILLISTER HEAD	2
31			LOCK WASHER	2
32			RESISTOR	1
33			MACHINE SCREW, FILLISTER HEAD	1
34			GUIDE, SPRING	1
35	03-027232		SPRING, TORSION	1
36			SECTOR, GEAR	1
37			MACHINE SCREW, PAN HEAD	1
38			WASHER, FLAT (SAE)	1
39			PIN, GROOVED	1
40			COVER, END (for Drive or Telescope controller only)	1
41	03-027228		GASKET, HOUSING	1
42			MACHINE SCREW, FLAT HEAD	3
43			TAG, IDENTIFICATION	1

TITLE: JOYSTICK CONTROLLER (PLATE 2 OF 2)

PLATE NO. E01.06

SIMON AERIALS INC. REV. 26 APR., 1993

PART NO.



0485 / 0385

TITLE	JOYSTICK CONTROLLER (PLATE 2 OF 2)		
SIMON AERIALS INC. REV. 26 APR., 1993		PART NO.	PLATE NO. E01.06

PARTS LIST

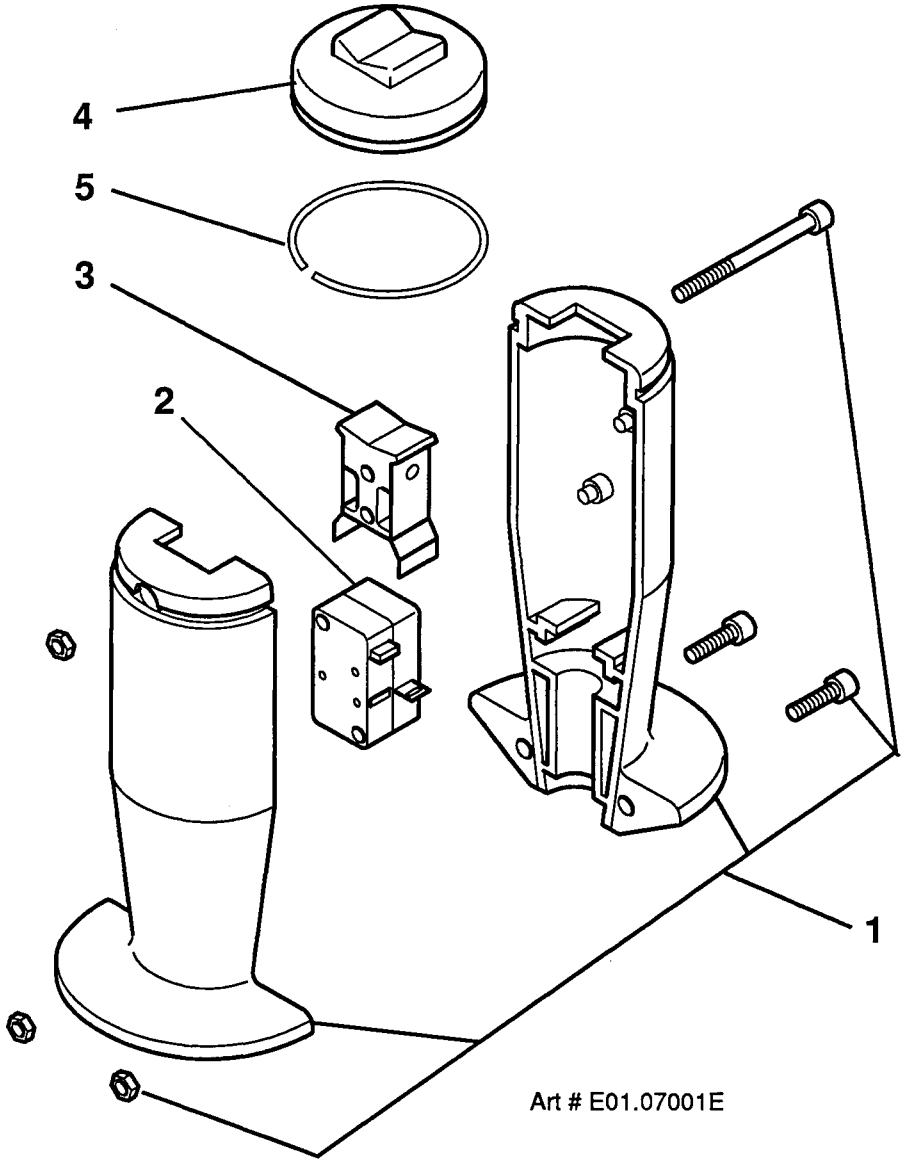
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-402205		HANDLE (includes two halves, screws and nuts)	1
2	03-402204		SWITCH, DRIVE HANDLE (steer switch)	1
3	03-402203		ACTUATOR, DRIVE HANDLE SWITCH (rocker)	1
4	03-402202		BOOT, SWITCH ACTUATOR	1
5	03-402201		RING, BOOT RETAINING	1
6	03-402206		BOOT, DRIVE CONTROL HANDLE	1

TITLE: DRIVE CONTROL HANDLE ASSEMBLY

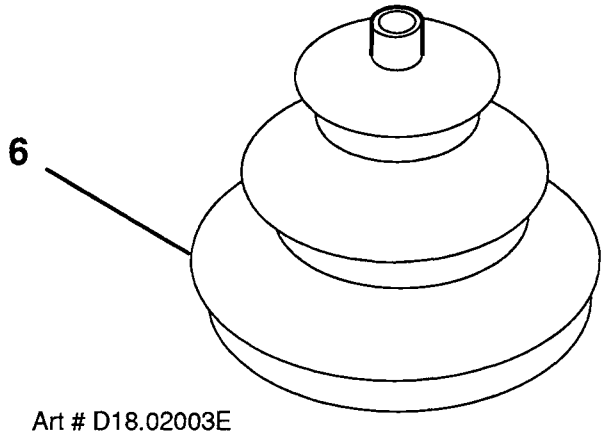
PLATE NO. E01.07

SIMON AERIALS INC. REV. 18 FEB., 1993

PART NO. 03-402200



Art # E01.07001E



Art # D18.02003E

TITLE

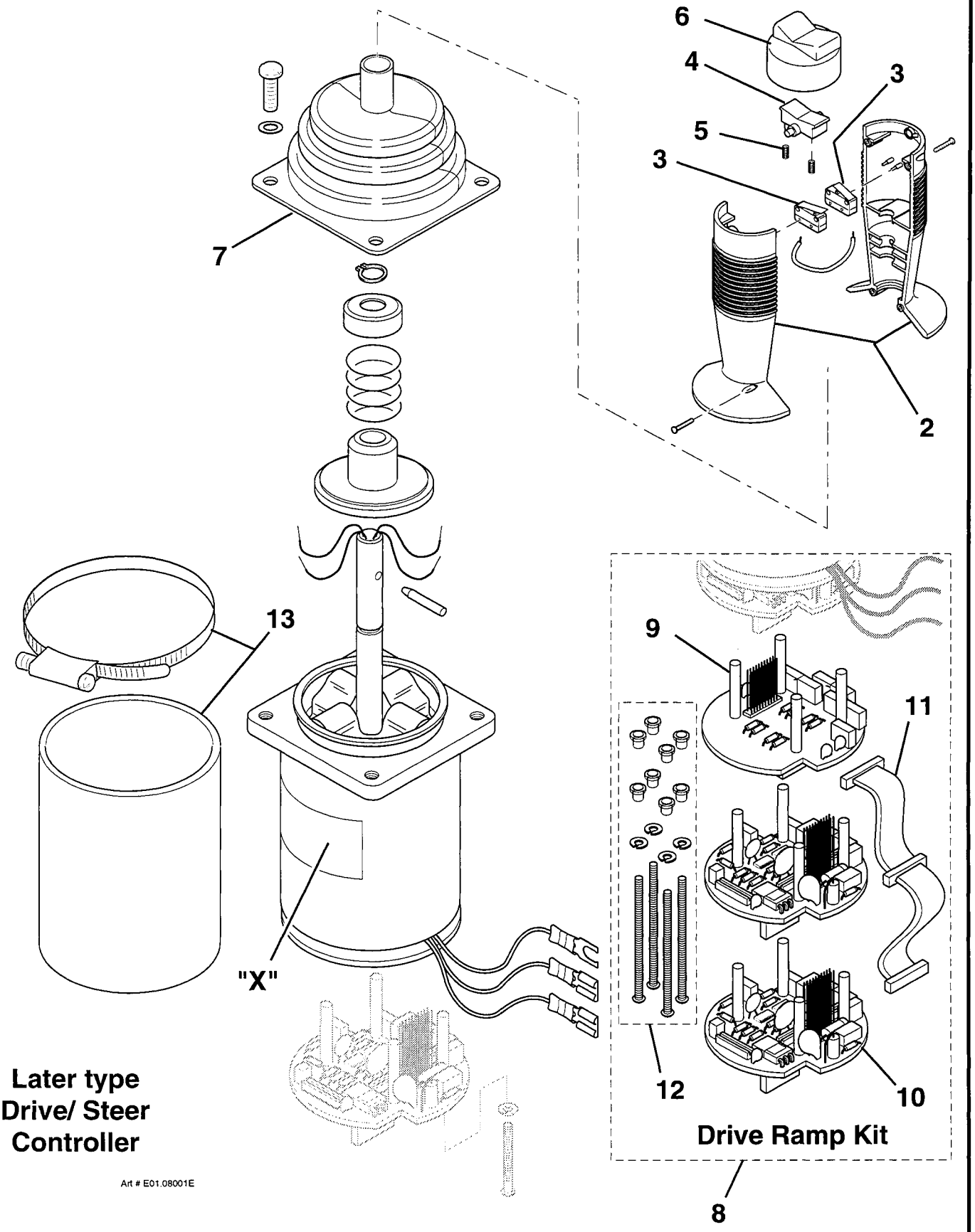
DRIVE CONTROL HANDLE ASSEMBLY

SIMON AERIALS INC.	REV. 18 FEB., 1993	PART NO. 03-402200	PLATE NO. E01.07

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-491200		CONTROLLER ASSEMBLY, SINGLE AXIS (12 Volt, 33 Hz, with rocker switch in hand grip) (**Later** type, identified on nameplate "X" as "**MJ 4020-1043**".	1
			Note: Some earlier versions of **this type** controller were marked "**MJ 4121-1043**", but these were modified by the removal of a driver board [shown in phantom on the illustration] and are identical to MJ 4020-1043.) Both versions of the later type are illustrated on this page. For earlier type, see next page.	
2	03-491204		HANDLE (includes two halves and assembling hardware)	1
3	03-491205		MICRO SWITCH	2
4	03-491202		ROCKER, SWITCH	1
5			SPRING, SWITCH RETURN	2
6	03-491201		BOOT, ROCKER SWITCH	1
7	03-491001		BOOT, HANDLE (Gaiter)	1
			The following items **are not** included with Controller 03-491200, but **are** available for aftermarket installation:	
8	03-702100		RAMP KIT, DRIVE	1
9	03-494800		RAMP CARD	1
10	03-494900		DRIVE BOARD	2
11	03-495300		CABLE, JUMPER	1
12	03-702200		MOUNTING HARDWARE, DRIVE RAMP KIT	1
13	03-499500		COVER KIT, CONTROLLER (includes boot and clamp)	1

TITLE DRIVE/ STEER CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2



Later type Drive/ Steer Controller

Art # E01.08001E

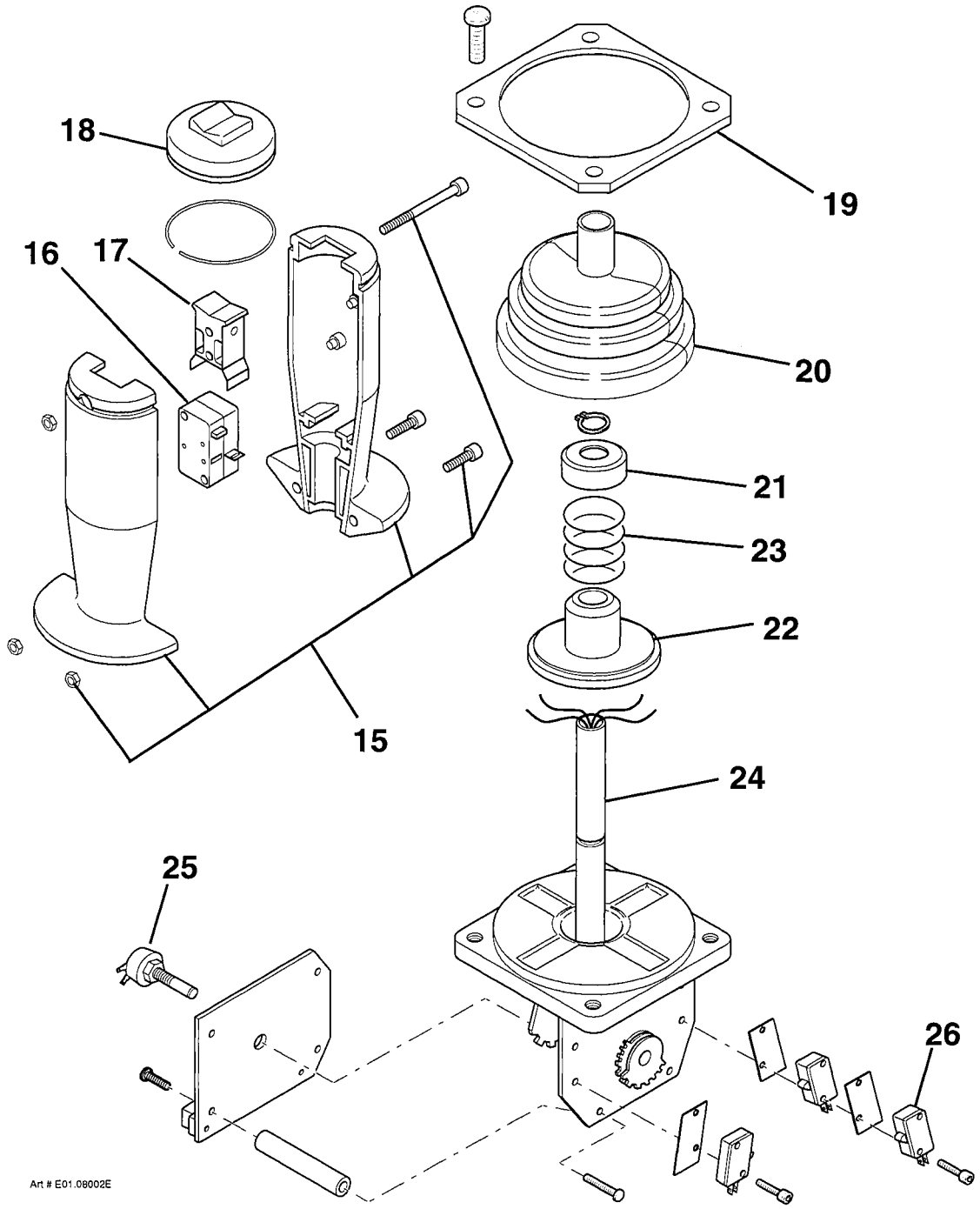
TITLE DRIVE/ STEER CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

SIMON AERIALS INC. REV. 01 FEB., 1996	PART NO.	PLATE NO. E01.08

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
14	03-481900		CONTROLLER ASSEMBLY, SINGLE AXIS (12 Volt, 33 Hz, with rocker switch in hand grip) (**Earlier** type, identified on nameplate as "**MS4 M6941**")	1
			Note: Earlier type is illustrated on this page. For later type, see previous page.	
15	03-481905		HANDLE (includes two halves and assembling hardware) (also includes gasket)	1
16	03-483008		MICRO SWITCH	1
17	03-483001		ROCKER, SWITCH	1
18	03-483009		BOOT, ROCKER SWITCH	1
19	03-481706		CLAMP, BOOT	1
20	03-481901		BOOT, HANDLE (Gaiter)	1
21	03-491004		CAP, HANDLE (Upper)	1
22	03-491005		CAP, HANDLE (Lower)	1
23	03-481707		SPRING, HANDLE	1
24	03-481903		SHAFT, HANDLE (includes gear)	1
25	03-481902		POTENTIOMETER	1
26	03-481904		MICRO SWITCH (Heavy duty)	3

TITLE DRIVE/ STEER CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2



Earlier type Drive/ Steer Controller

TITLE DRIVE/ STEER CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

SIMON AERIALS INC. REV. 01 FEB., 1996	PART NO.	PLATE NO. E01.08

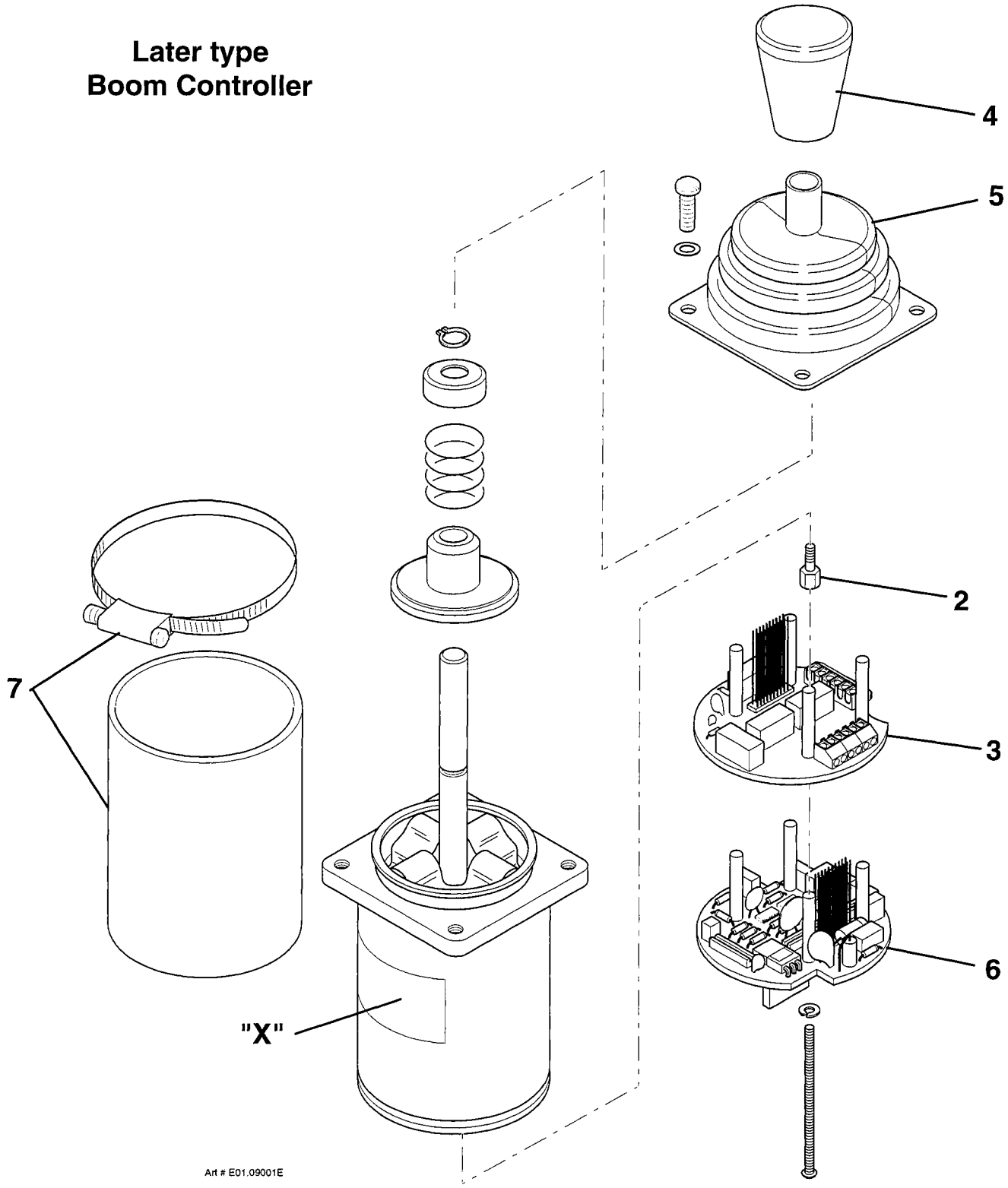
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-491000		CONTROLLER ASSEMBLY, SINGLE AXIS (12 Volt, 33 Hz) (**Later** type, identified on nameplate "X" as "**MJ 9001-0301**".	1
			Note: Some earlier versions of **this type** controller were marked "**MJ 4121-1020**", but these were modified and are identical to MJ 9001-0301.)	
			Both versions of the later type are illustrated on this page. For earlier type, see next page.	
2	03-495500		SPACER, STAND OFF	4
3	03-493600		SWITCH BOARD (for alarm functions)	1
4	03-491002		KNOB (Handle)	1
5	03-491001		BOOT, HANDLE (Gaiter)	1
6	03-491003		BOARD, DRIVER	1
			The following item **is not** included with Controller 03-491000:	
7	03-499500		COVER KIT, CONTROLLER (includes boot and clamp)	1

TITLE BOOM CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

PLATE NO. E01.09 | **SIMON AERIALS INC.** REV. 01 FEB., 1996 | PART NO.

Later type
Boom Controller



TITLE	BOOM CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2		
SIMON AERIALS INC.	REV. 01 FEB., 1996	PART NO.	PLATE NO. E01.09

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
8	03-481700		CONTROLLER ASSEMBLY, SINGLE AXIS (12 Volt, 33 Hz) (**Earlier** type, identified on nameplate as "**EMS4M6351**") **Note:** Earlier type is illustrated on this page. For later type, see previous page.	1
9	03-481706		CLAMP, BOOT	1
10	03-481701		BOOT, HANDLE (Gaiter)	1
11	03-481708		GASKET, MOUNTING	1
12	03-481705		TUBE, INTERLOCK	1
13	03-491004		CAP, HANDLE (Upper)	1
14	03-491005		CAP, HANDLE (Lower)	1
15	03-481707		SPRING, HANDLE	1
16	03-481703		SHAFT, HANDLE (includes gear)	1
17	03-481702		BOARD, PRINTED CIRCUIT (with Potentiometer)	1
18	03-481902		POTENTIOMETER	1
19	03-483008		MICRO SWITCH	3

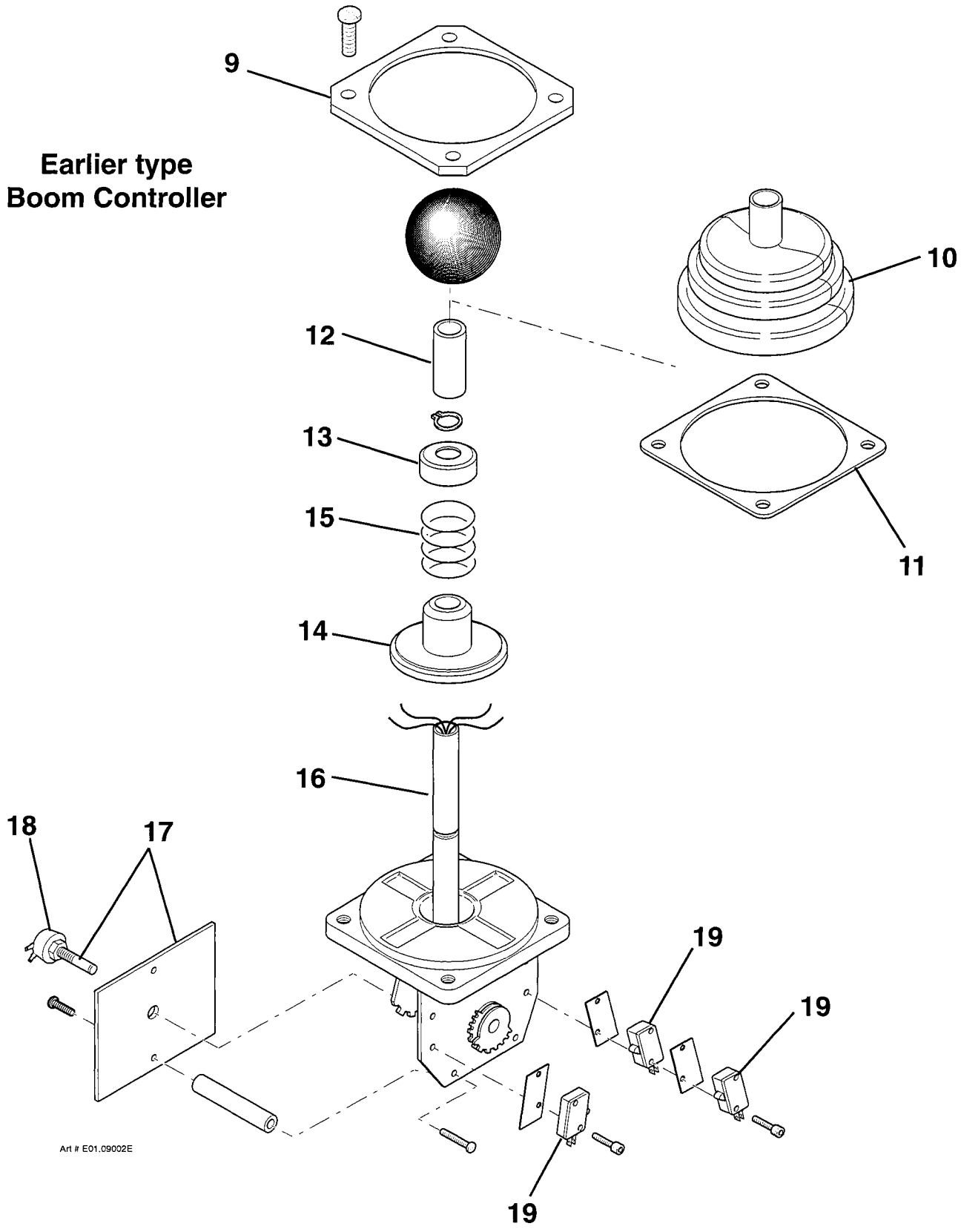
TITLE BOOM CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

PLATE NO. E01.09

SIMON AERIALS INC. REV. 01 FEB., 1996

PART NO.

Earlier type
Boom Controller



TITLE	BOOM CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2		
SIMON AERIALS INC.	REV. 01 FEB., 1996	PART NO.	PLATE NO. E01.09

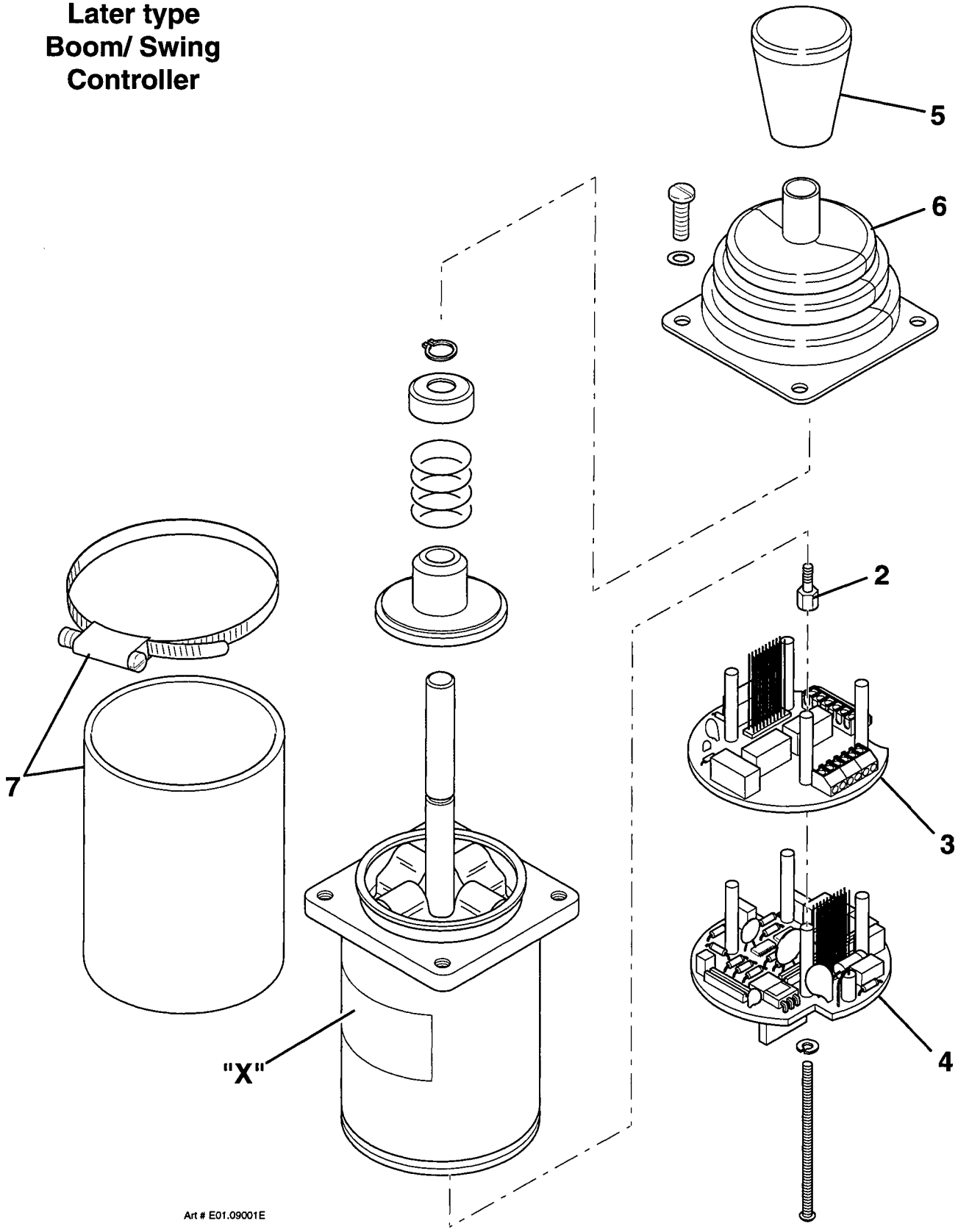
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-491100		CONTROLLER ASSEMBLY, DUAL AXIS (12 Volt, 33 Hz) Standard controller, **later** type, identified on nameplate "X" as "**MJ5122-1020**")	1
	03-710300		**Note:** Later type is illustrated on this page. For earlier type, see next page. Special application, with auxiliary printed circuit board, identified on nameplate "X" as "**MJ5123-1020**")	1
2			SPACER, STAND OFF (for Controller 03-710300 only)	4
3	03-710301		AUXILIARY CONTACT BOARD (for Controller 03-710300 only)	1
4	03-491101		DRIVE BOARD	1
5	03-491002		KNOB (Handle)	1
6	03-491001		BOOT, HANDLE (Gaiter)	1
			The following items **are not** included with Controller 03-491100 or 03-710300, but **are** available for aftermarket installation:	
7	03-499500		COVER KIT, CONTROLLER (includes boot and clamp)	1

TITLE BOOM/ SWING CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

PLATE NO.			PART NO.
E01.10	**SIMON AERIALS INC.**	REV. 07 NOV., 1994	

Later type Boom/ Swing Controller



TITLE BOOM/ SWING CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

SIMON AERIALS INC. REV. 07 NOV., 1994	PART NO.	PLATE NO. E01.10

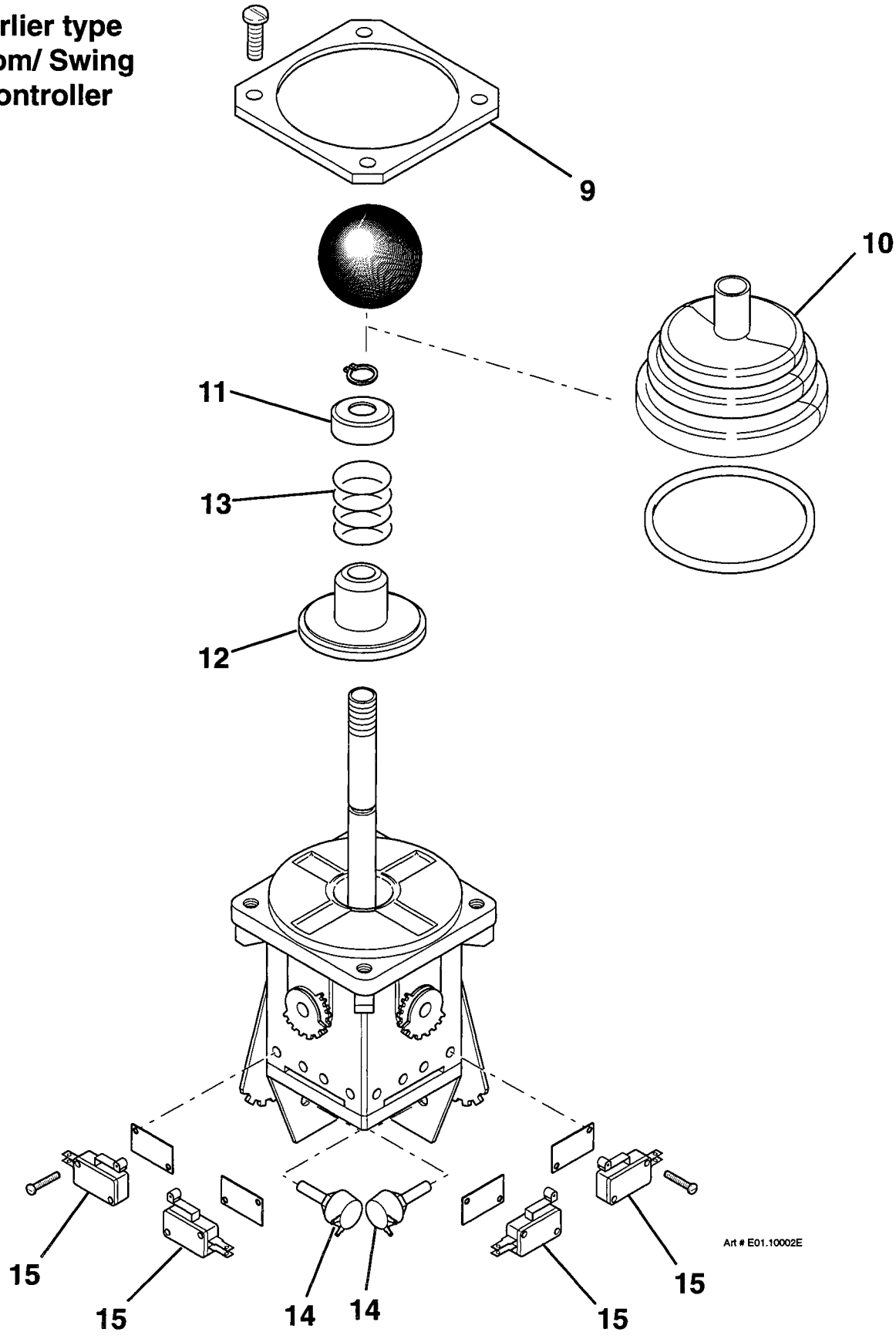
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
8	03-481800		CONTROLLER ASSEMBLY, DUAL AXIS (12 Volt, 33 Hz) (**Earlier** type, identified on nameplate "X" as "**JS54 M6539**") **Note:** Earlier type is illustrated on this page. For later type, see previous page.	1
9	03-481706		CLAMP, BOOT	1
10	03-481801		BOOT, HANDLE (Gaiter)	1
11	03-491004		CAP, HANDLE (Upper)	1
12	03-491005		CAP, HANDLE (Lower)	1
13	03-481707		SPRING, HANDLE	1
14	03-481902		POTENTIOMETER (10 K Ohm)	2
15	03-481802		MICRO SWITCH	4

TITLE BOOM/ SWING CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

PLATE NO.			PART NO.
E01.10	**SIMON AERIALS INC.**	REV. 07 NOV., 1994	

Earlier type Boom/ Swing Controller



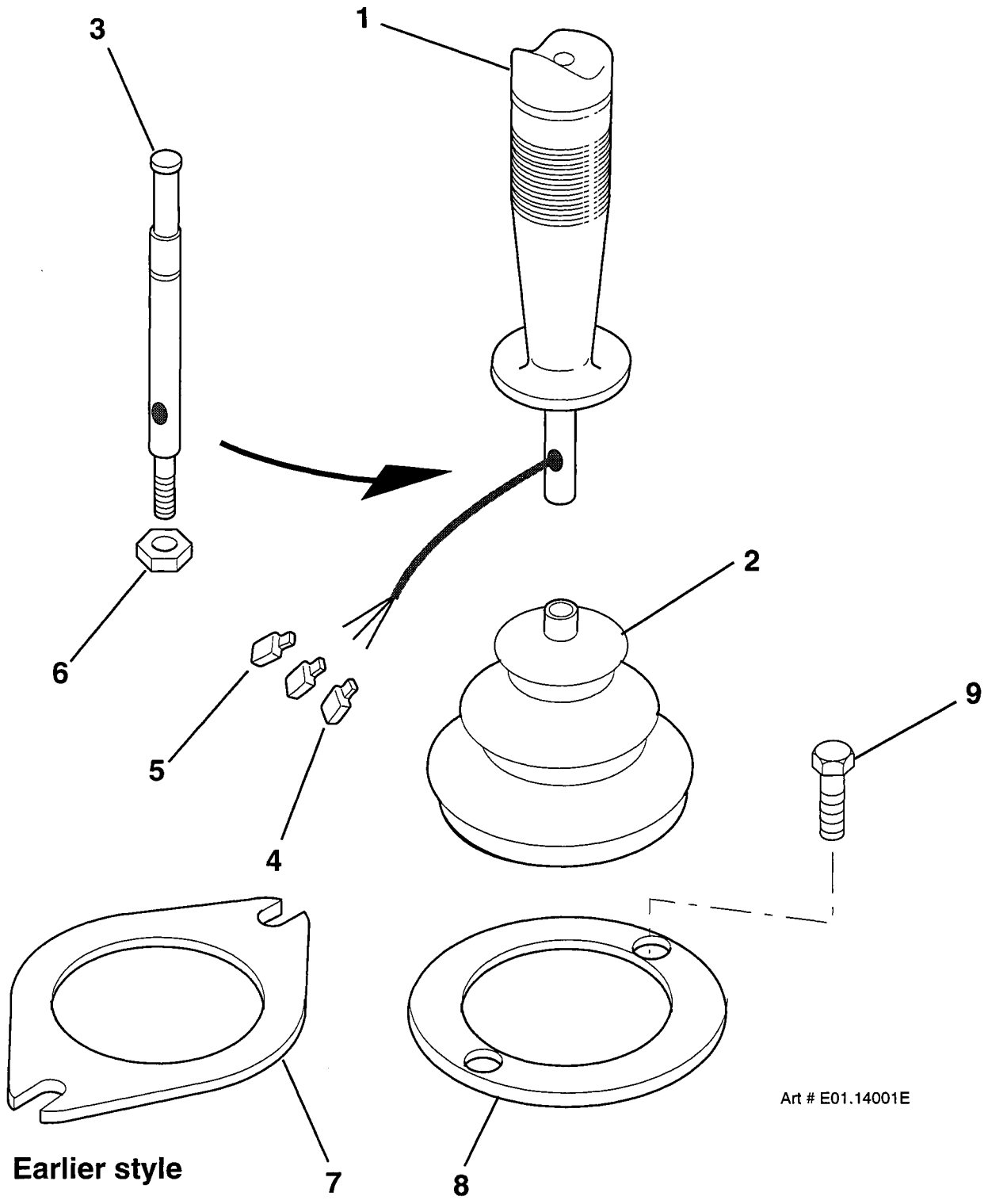
TITLE BOOM/ SWING CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

SIMON AERIALS INC. REV. 07 NOV., 1994	PART NO.	PLATE NO. E01.10

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-492700		HANDLE ASSEMBLY, DRIVE CONTROL (with boot) (Must be modified for this application. Discard shaft that comes with handle, and replace with Item 3.)	1
2			BOOT, DRIVE HANDLE (Not available separately. Comes only with handle)	1
3	2199980		SHAFT, DRIVE HANDLE	1
4	03-092000		COUPLING, MALE (Red, insulated, for #18-#22 AWG)	2
5	03-092200		COUPLING, MALE (Blue, insulated, for #14-#16 AWG)	1
			The following items **are not** part of the Drive control handle assembly:	
6	07-040016		NUT, HEX (3/8"-16, Grade 5)	1
7	2112770		RING, BOOT RETAINING (earlier style)	1
8	2323140		RING, BOOT RETAINING (later style)	1
9	07-029365		SCREW, TEK (#12-14 x 1", self tap, bonded sealing head)	2

TITLE	DRIVE CONTROL HANDLE ASSEMBLY		
PLATE NO. E01.14	**SIMON AERIALS INC.** REV. 01 MAR., 1994	PART NO.	3530010

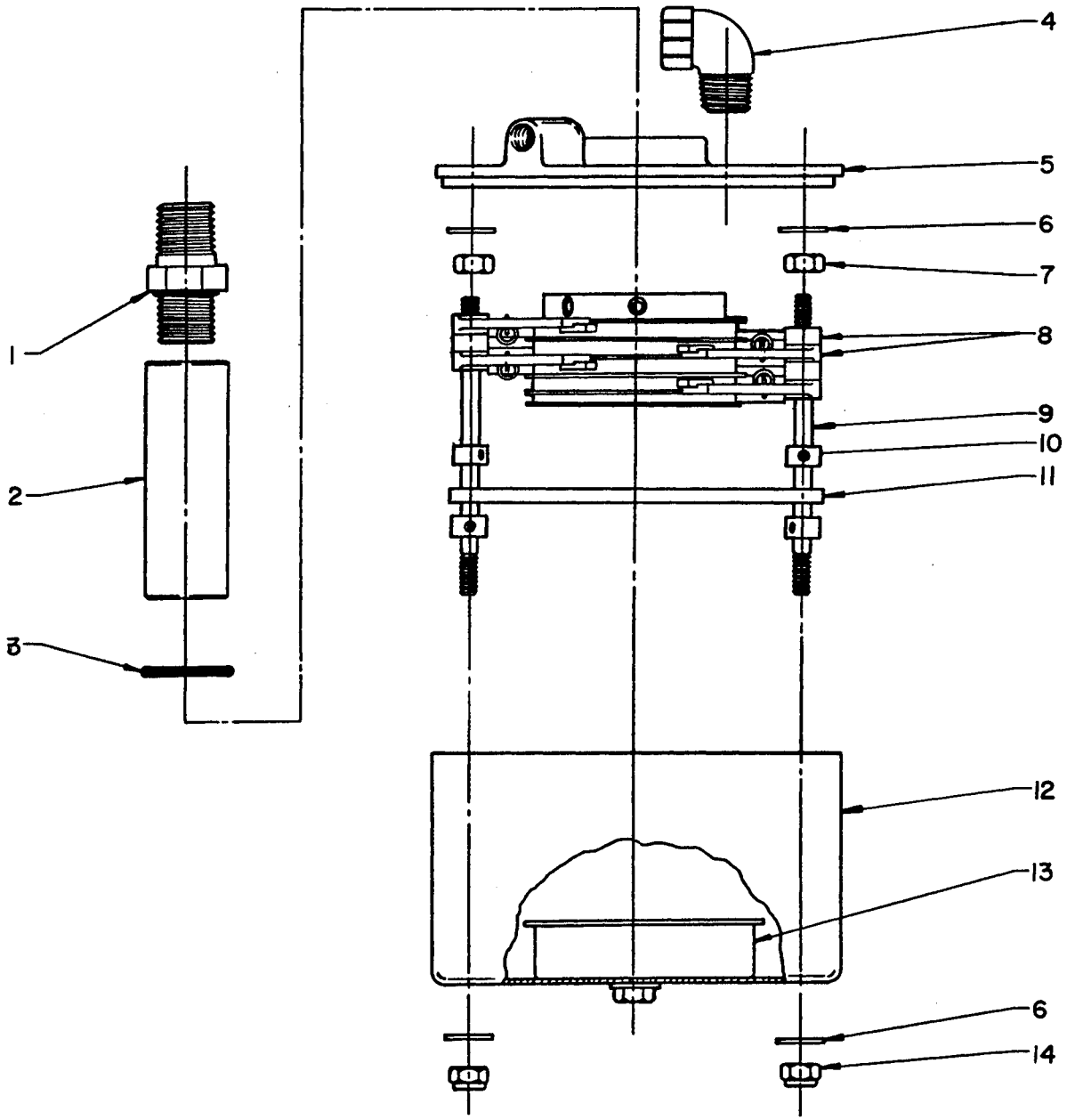


TITLE	DRIVE CONTROL HANDLE ASSEMBLY		
SIMON AERIALS INC. REV. 01 MAR., 1994		PART NO. 3530010	PLATE NO. E01.14

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			MODIFIED CONNECTOR	1
2	SAD-206755-9		CONNECTING COLLAR	1
3			'O' RING	
4			CORD GRIP, 90° 3/4"	1
5			BASE PLATE	1
6			FLATWASHER, 5/16"	4
7			HEX NUT, 5/16"-18	2
8			BRUSH ASSEMBLY (INCL. BRUSH, ARMS & SPRING)	4
9			BRUSH HOLDING STUD	2
10			COLLAR	4
11			NYLON BEARING	1
12			COVER	1
13			RUBBING DISC	1
14			LOCKNUT, 5/16"-18	2

DESCRIPTION	PART NO.
ELECTRICAL SWIVEL, 4 CIRCUIT	



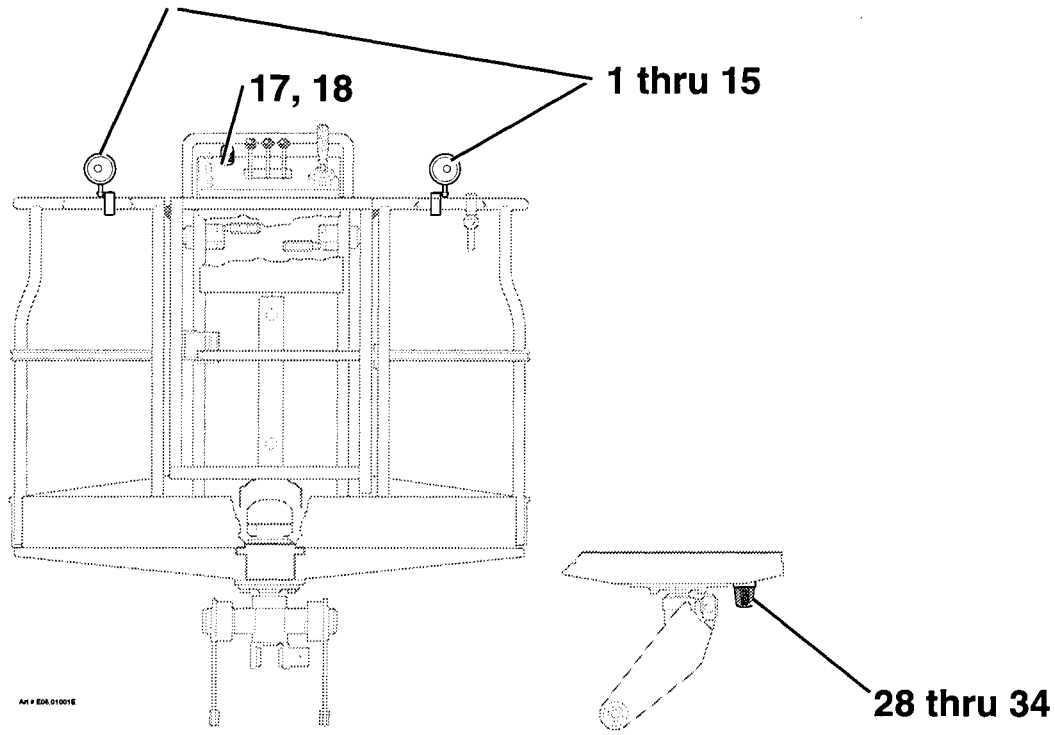
1085/0985

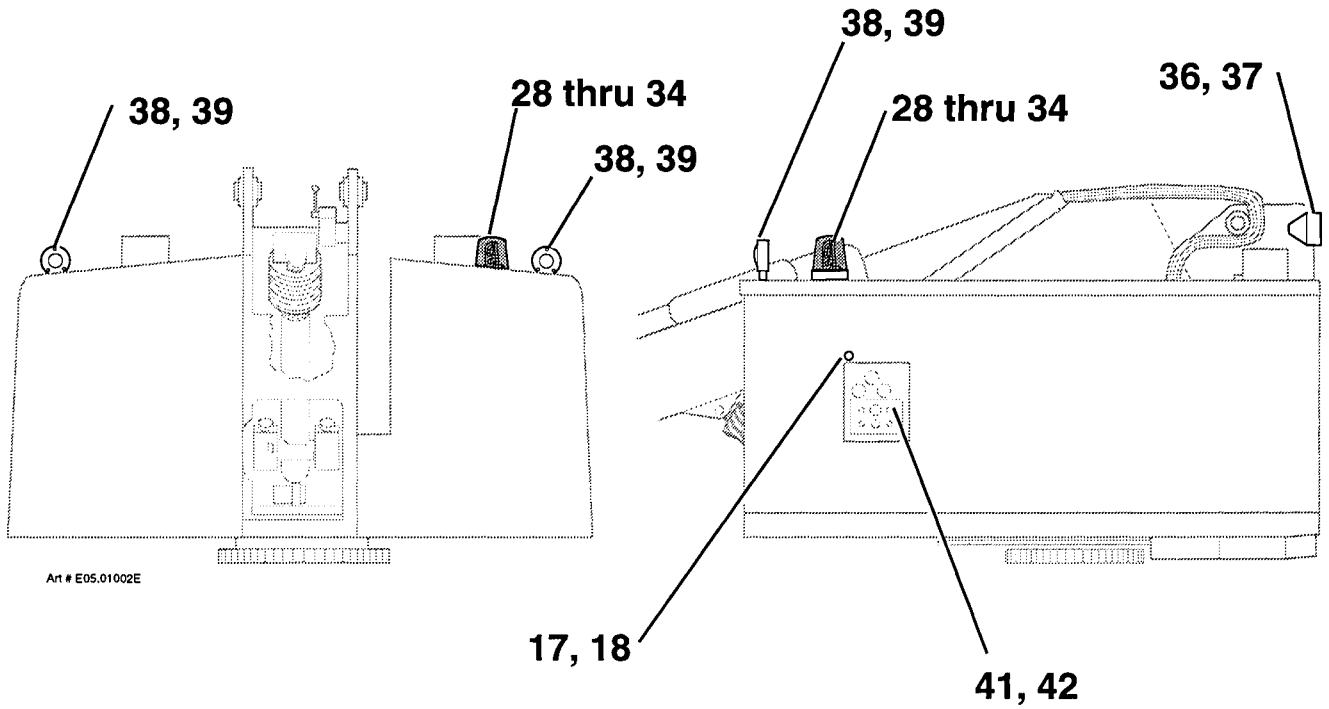
DESCRIPTION	PART NO.
ELECTRICAL SWIVEL, 4 CIRCUIT	03-038200

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	353 5050		PLATFORM WORK LIGHT PACKAGE	1
2	03-037900		LAMP, TRUCK (12 Volt DC) (includes #4411 flood lamp bulb)	2
3	03-037902		LAMP, FLOOD (Sealed beam replacement bulb) (#4411, 12 Volt DC) (See Item 15 for Spot lamp bulb)	
4	210 7370		BRACKET, WORK LIGHT MOUNTING	2
5	10-069600		CLAMP, TUBE (1-1/4" O.D.)	2
6	03-064800		GROMMET (Plastic)	2
7	03-087500		WIRE, ELECTRICAL (#16 AWG, Blue, stranded) (Bulk item, order as needed. 8 Ft [2.4 M] needed here)	A.R.
8	03-092300		COUPLING, INSULATED (Female, Blue nylon, #14-16 AWG)	2
9	03-094800		TERMINAL, RING (Blue, #14-16 AWG, 3/8" stud)	2
10	03-408800		TUBING, HEAT SHRINK (Black, 1/4") (Bulk item, order as needed. 4 Ft [1.2 M] needed here)	A.R.
11	03-064000		TIE, CABLE (7.4" [188 mm] long)	6
12	03-499700		BREAKER, CIRCUIT (15 Amp)	1
13	01-037400		"O"-RING (.351" I.D., .072" thick)	1
14	03-499800		SEAL, CIRCUIT BREAKER BUTTON	1
15	03-037901		LAMP, SPOT (Sealed beam replacement bulb) (#H7604, 12 Volt DC, Halogen) (See Item 3 for Flood lamp)	1
16	353 5010		LIGHT PACKAGE (includes lamps for platform control panel, ground control panel, and engine compartment)	1
17	03-038800		LAMP, CONTROL PANEL (hooded)	2
18	03-418600		BULB, PANEL LAMP (#68, 12 Volt DC)	1
19	03-035500		LAMP, DOME (Engine compartment)	1
20	No Part #		BULB, DOME LAMP (#93, 12 Volt DC)	1
21	03-087500		WIRE, ELECTRICAL (#16 AWG, Blue, stranded) (Bulk item, order as needed. 6 Ft [1.8 M] needed here)	A.R.
22	03-092200		COUPLING, INSULATED (Male, Blue nylon, #14-16 AWG)	2
23	03-092300		COUPLING, INSULATED (Female, Blue nylon, #14-16 AWG)	2
24	03-099000		CONNECTOR, BUTT (Blue, #14-16 AWG)	2
25	07-090100		MACHINE SCREW, ROUND HEAD (#10-32 x 3/4")	6
26	07-062009		WASHER, FLAT (#8)	6
27	07-050111		NUT, LOCK (#10-32, Grade 2, with Nylon insert)	6

TITLE	OPTIONAL LIGHT PACKAGES (PLATE 1 OF 2)		
PLATE NO. E05.01	**SIMON AERIALS INC.**	REV. 09 NOV., 1994	PART NO.



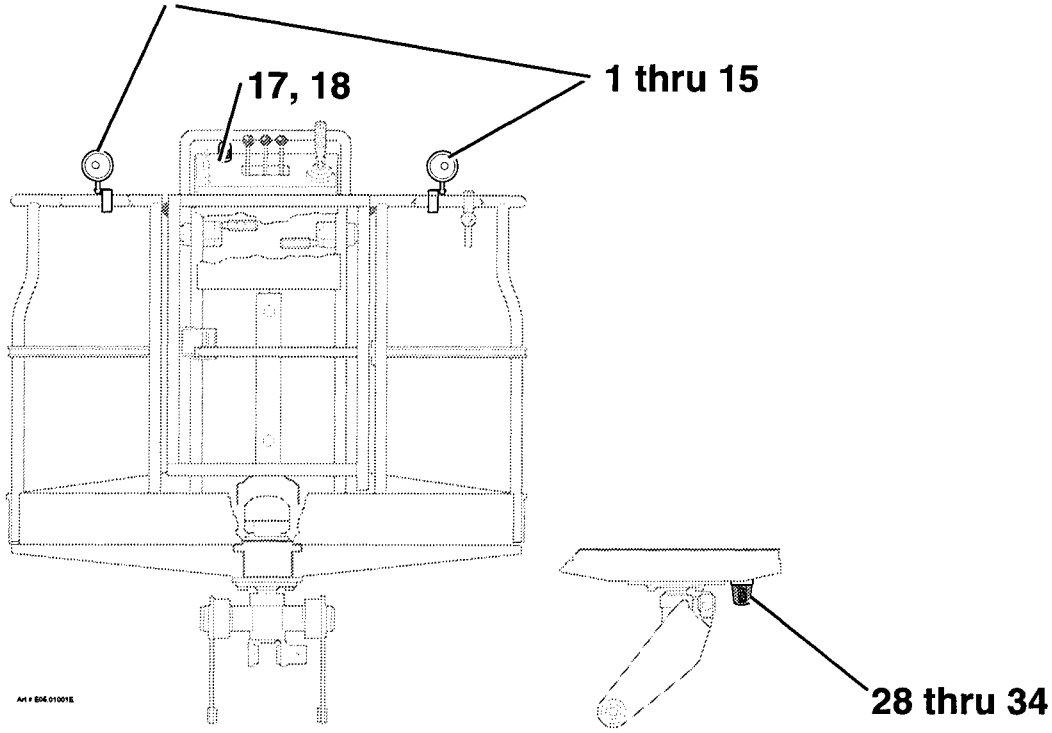


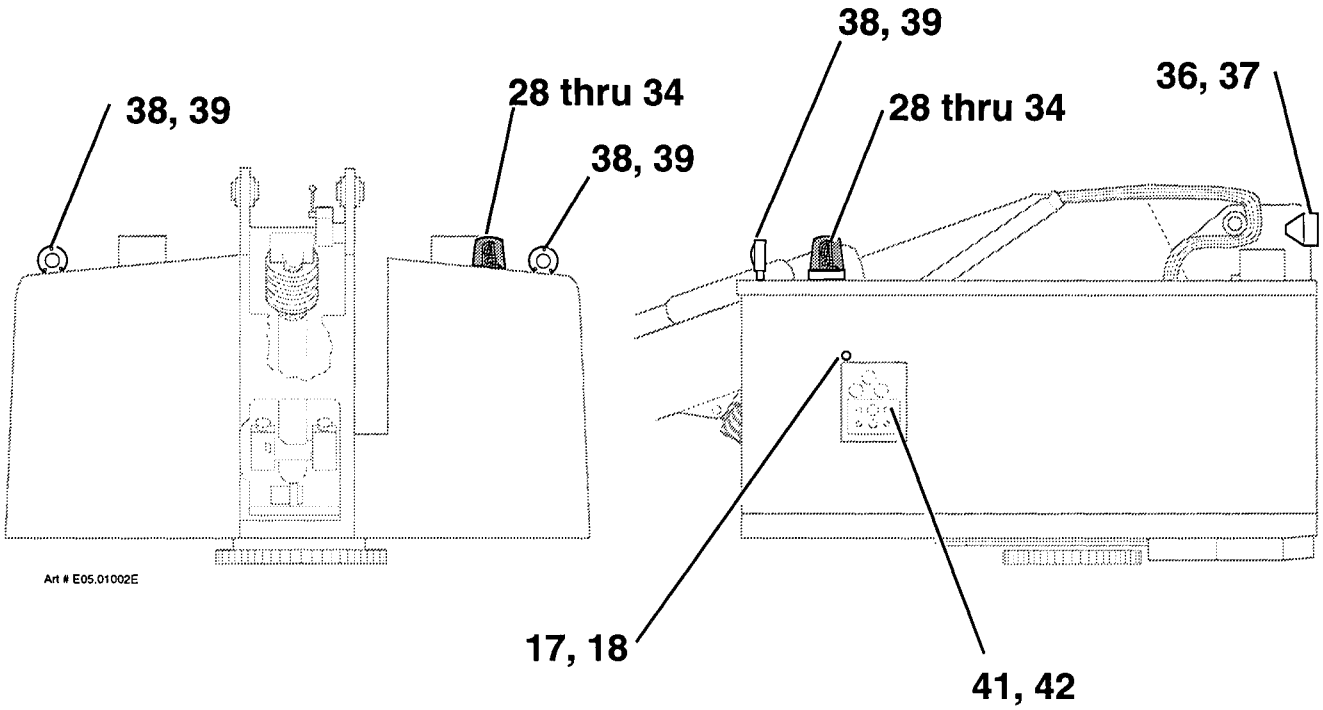
TITLE	OPTIONAL LIGHT PACKAGES (PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 09 NOV., 1994		PART NO.	PLATE NO. E05.01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
28	353 5030		ROTARY BEACON PACKAGE (Amber)	1
29	03-030600		BEACON, ROTARY (Amber, 12 Volt DC)	1
30	03-030601		LENS, ROTARY BEACON (Amber)	1
31	No Part #		BULB, ROTARY BEACON (#1156, 12 Volt DC)	1
32	03-064800		GROMMET (Plastic)	1
33	03-087500		WIRE, ELECTRICAL (#16 AWG, Blue, stranded)	
			(Bulk item, order as needed. 3 Ft [.91 M] needed here)	A.R.
34	03-092200		COUPLING, INSULATED	
			(Male, Blue nylon, #14-16 AWG)	1
35	353 5040		HEAD AND TAIL LIGHT PACKAGE	1
36	03-038000		HEADLAMP (Sealed beam)	2
37	No Part #		BULB, HEADLAMP (Sealed beam replacement bulb)	
			(#H 7609, 12 Volt DC, Halogen) (Also see Item 52)	1
38	03-031200		TAIL LAMP	2
39	No Part #		BULB, TAIL LAMP (#1157, 12 Volt DC)	1
40	03-020400		SWITCH, TOGGLE (2 position, maintained contact,	
			single pole, single throw)	1
41	03-037500		SOCKET, RELAY (Double pole, snap mount)	1
42	03-050100		RELAY, PLUG IN (12 Volt DC, double pole)	1
43	03-085200		CABLE, ELECTRICAL (Type SJO, 2 cond., #16 AWG)	
			(Bulk item, order as needed. 20 Ft [6.1 M] needed here)	A.R.
44	03-087500		WIRE, ELECTRICAL (#16 AWG, Blue, stranded)	
			(Bulk item, order as needed. 6 Ft [1.8 M] needed here)	A.R.
45	03-092200		COUPLING, INSULATED	
			(Male, Blue nylon, #14-16 AWG)	12
46	03-092300		COUPLING, INSULATED	
			(Female, Blue nylon, #14-16 AWG)	12
47	07-031001		STUD, WELD (1/4"-20 x 3/4")	28
48	07-050014		NUT, LOCK (1/4"-20, Grade 5)	28
49	07-062015		WASHER, FLAT (5/16")	28
50	10-060600		CLAMP, LOOP (3/8"	28
51	03-497900		SEAL, PANEL (for headlamp toggle switch)	1
52	No Part #		BULB, HEADLAMP (Sealed beam replacement bulb)	
			(#4419, 12 Volt DC) (Also see Item 37)	1
53	03-046400		TURN SIGNAL	1
54	03-031300		LAMP, MARKER (12 Volt DC)	1

TITLE	OPTIONAL LIGHT PACKAGES (PLATE 2 OF 2)		
PLATE NO. E05.01	**SIMON AERIALS INC.**	REV. 09 NOV., 1994	PART NO.



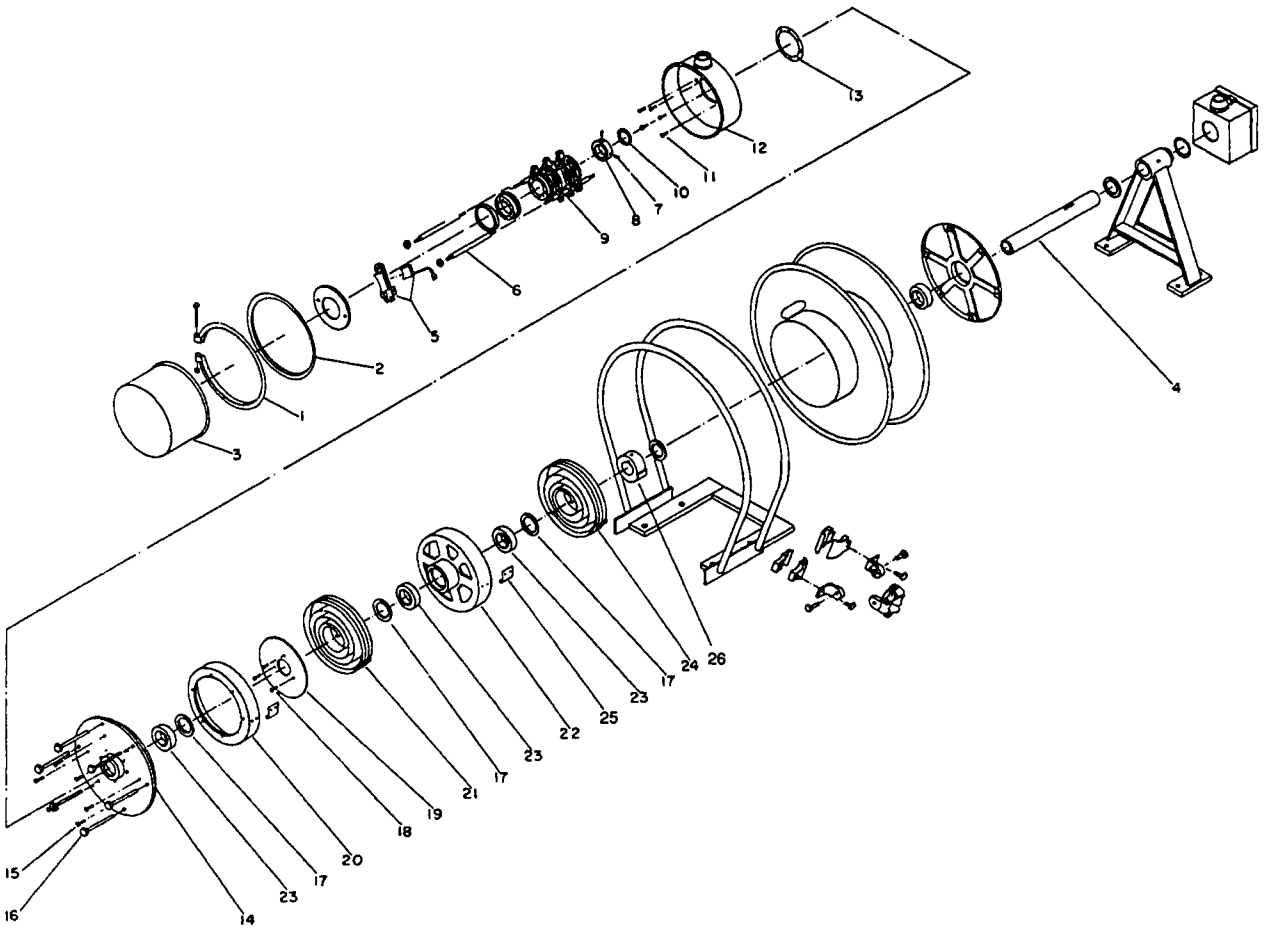


TITLE	OPTIONAL LIGHT PACKAGES (PLATE 2 OF 2)		
SIMON AERIALS INC. REV. 09 NOV., 1994		PART NO.	PLATE NO. E05.01

PARTS LIST

ITEM	PART NO.	SEE SECTION	DESCRIPTION	QTY.
1			BAND	1
2			GASKET	1
3			COVER	1
4			SHAFT	1
5			BRUSH AND BRUSH HOLDER	1
6			STUD, BRUSH	2
7			SETSCREW	2
8			COLLAR, COLLECTOR RING	1
9			CORE, COLLECTOR RING	1
10			SPACER	1
11			SCREW	5
12			RING, ENTRANCE	1
13			GASKET	1
14			END BELL	1
15			SCREW, FLAT HEAD (1/4" X 7/8")	6
16			STUD (1/4")	6
17			SPACER	1
18			SCREW, SPRING RELEASE (No. 8-32 X 1/4")	3
19			RETAINER, SPRING	1
20			HOUSING, SPRING RING	1
21			SPRING	1
22			HOUSING, SPRING	1
23			BEARING	3
24			SPRING	1
25			CATCH, SPRING	1
26			HUB, SPRING	1
27	03-472400		CABLE (12 gauge, 4 conductor, 130', not shown)	1

TITLE	CABLE REEL		
PLATE NO. E06.01	**SIMON AERIALS INC.**	REV. 09/11/90	PART NO. 03-471600



TITLE	CABLE REEL		
SIMON AERIALS INC. REV. 09/11/90	PART NO. 03-471600	PLATE NO. E06.01	

PARTS LIST

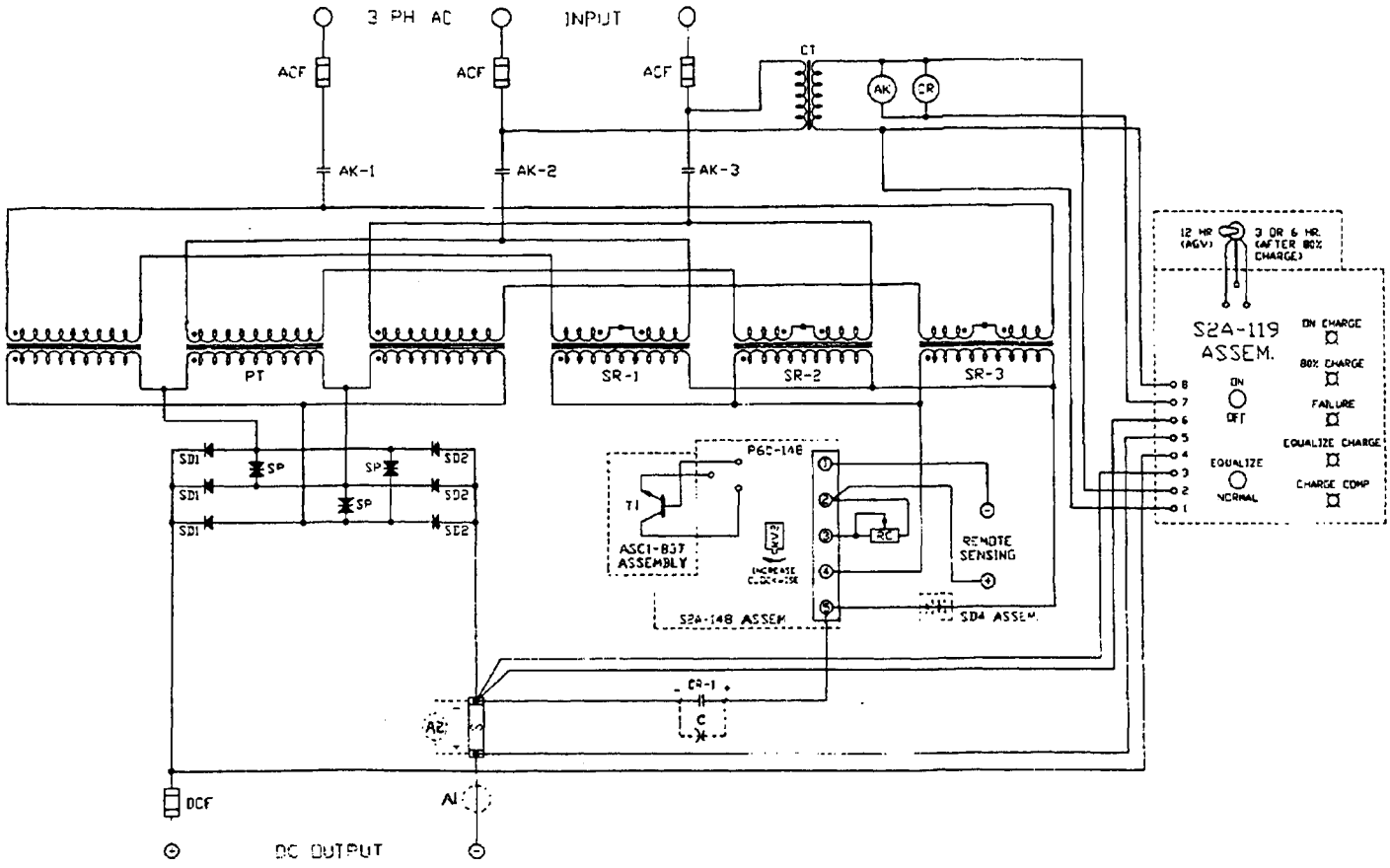
REF	PART NO	SEE SECTION	DESCRIPTION	QTY.
PT			TRANSFORMER ASSEMBLY	1
SR			REACTOR ASSEMBLY	3
AC			FUSE BLOCK, THREE POLE	1
ACF			FUSE (C) 600 V, 20 A	3
DCF			FUSE (AT) 130 V, 150 A	1
			HEATSINK ASSEMBLY	2
SD1			SILICON DIODE	3
SP			SURGE PROTECTOR ASSEMBLY	1
RC			RESISTOR 300 Watt, 25 Ohm	1
C			FILM CAPACITOR 400 Vdc, 0.10 Mfd	1
A2			AMMETER, dc, 0-150	1
			CASE, 8A COMPLETE, BL	1
			CONTROL UNIT (AGV)	1
DC			CABLE, dc OUTPUT (10', #2)	2
AK			CONTACTOR, 3P, 120 Vac	1
SD2			REV. SILICON DIODE 150 A, 200 V	3
CT			TRANSFORMER, CONTROL 50A	1
DC			BLOCK, TERMINAL	1
			STRIP, BARRIER TERMINAL - 2 (for remote sensing)	1
			BUSHING, NYLON SR-9P-1	2
S			SHUNT, AMMETER - 150 A, 100 mV	1
CR			RELAY, 2 POLE 120 Vac	1
			STANDOFF, NYLON	4
			TIMER, AUTO START 3/6 hr-12 hr	1

TITLE: BATTERY CHARGER

PLATE NO. E07.01

SIMON AERIALS INC. ORIGIN 09/10/90

PART NO. 03-471500



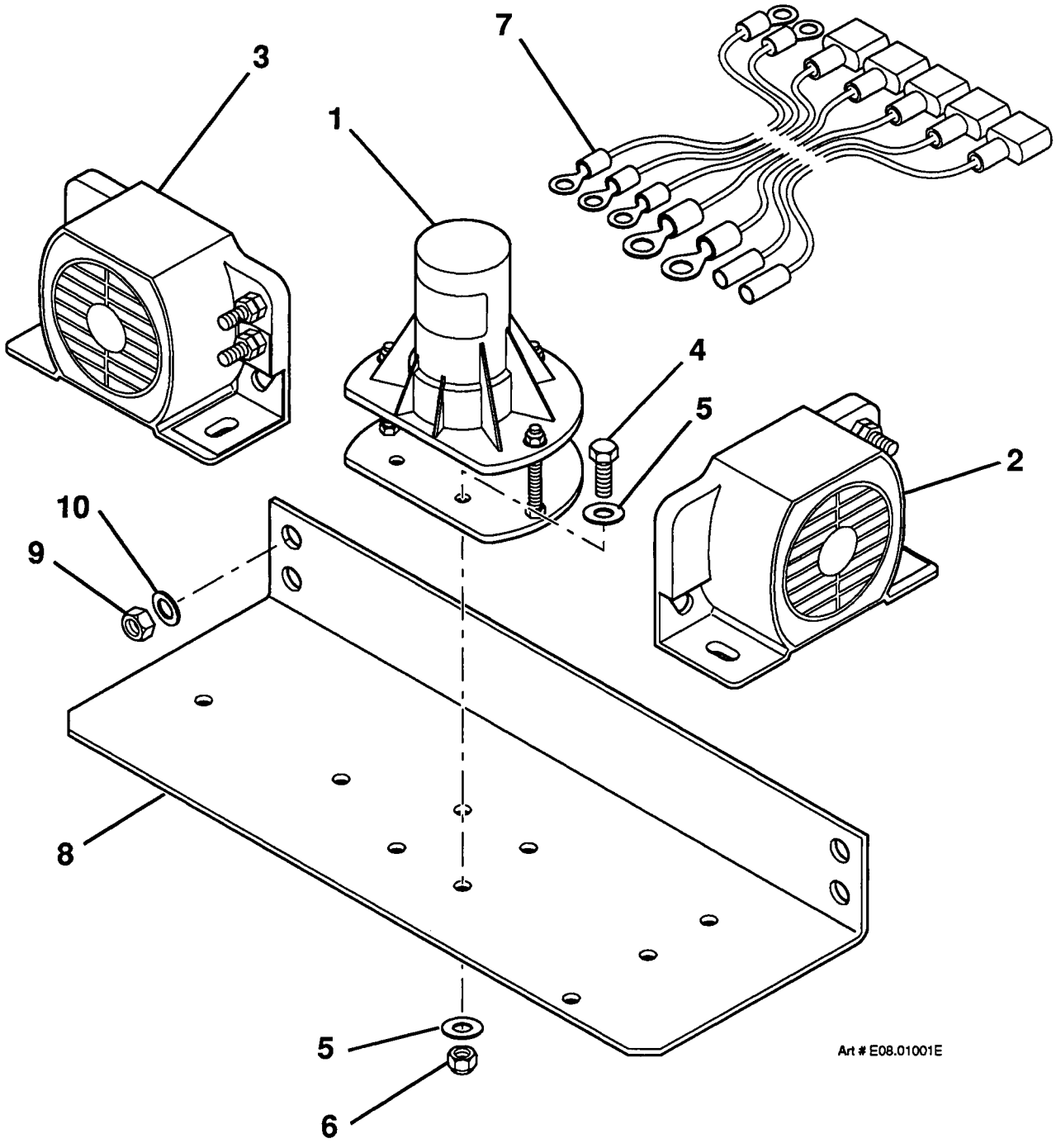
TITLE	BATTERY CHARGER		
SIMON AERIALS INC. ORIGIN 09/10/90	PART NO. 03-471500	PLATE NO. E07.01	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-038100		SENSOR, LEVEL (2 second delay)	1
2	03-464600		HORN, LEVEL WARNING (square, second type) (102 dba, 12/ 24 volt, marked "Model 530" on vendor label)	1
	03-036100		HORN, LEVEL WARNING (round, first type)	1
3	03-472000		ALARM, MOVEMENT (second type) (97 dba, 12 volt, marked "Model DT 500" on vendor label)	1
	03-038300		ALARM, MOVEMENT (first type, superceded by 03-472000) (marked "Model 340" on vendor label)	1
4	07-003003		CAP SCREW, HEX HEAD (1/4"-20 x 3/4", Grade 5)	8
5	07-062014		WASHER, FLAT (1/4")	4
6	07-050014		NUT, STOP (1/4"-20, Grade 5)	4
7	03-439400		WIRE SET, ALARM	1
8	2056021		BRACKET, ALARM ASSEMBLY	1
9	07-040014		NUT, HEX (1/4"-20, Grade 5)	4
10	07-060014		WASHER, FLAT (1/4", SAE)	4

TITLE ALARM PACKAGE ASSEMBLY, MP

PLATE NO. E08.01 | **SIMON AERIALS INC.** NEW 03/11/91 | PART NO. 3505326



TITLE	ALARM PACKAGE ASSEMBLY, MP		
SIMON AERIALS INC.	NEW 03/11/91	PART NO. 3505326	PLATE NO. E08.01

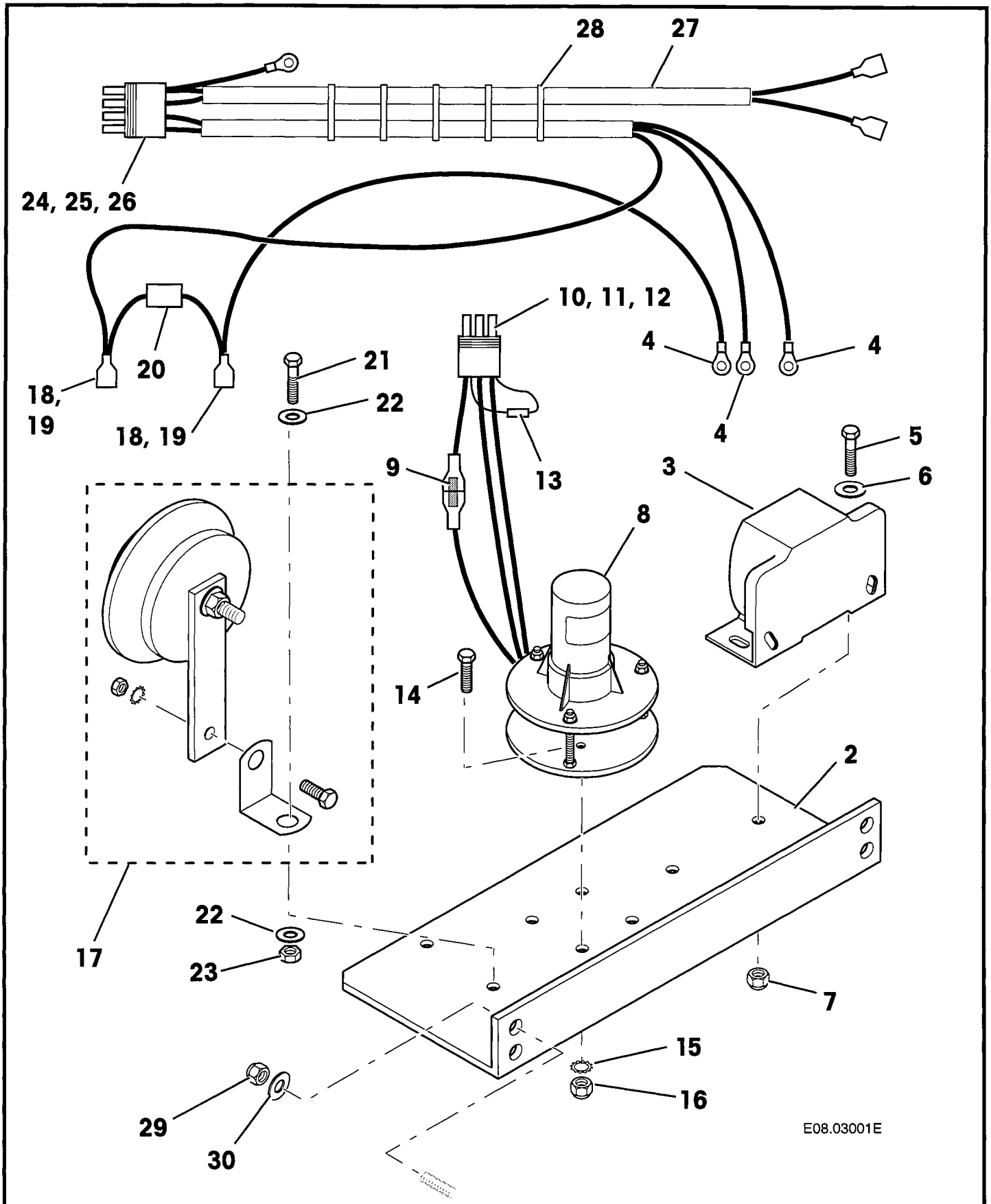
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	355 1290		ALARM PACKAGE ASSEMBLY	1
2	205 6021		BRACKET, ALARM MOUNTING	1
			Movement Alarm ...	
3	03-464600		ALARM, MOVEMENT (102 dba, 12/ 24 Volt DC. Marked "Model 530" on vendor label.)	1
4	03-094600		TERMINAL, RING (#10 stud, #14 - #16 ga. wire)	3
5	07-003003		CAP SCREW, HEX HEAD (1/4"-20 x 3/4", Grade 5)	2
6	07-060014		WASHER, FLAT (1/4", SAE)	2
7	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	2
			Level Sensor ...	
8	03-487100		SENSOR, LEVEL (4.5°, 2 second delay)	1
9	- - -		FUSE (AGC-1) (1 Amp, 250 Volt, fast blow)	1
10	03-736900		HOUSING, CONNECTOR (3 way, male)	1
11	03-474000		SOCKET, TERMINAL (#14 - #16 ga. wire)	3
12	03-474100		SEAL, WIRE (0.079" - 0.110" dia.)	3
13	03-711000		RESISTOR (2k Ohm, 1/2 Watt)	1
14	07-003002		CAP SCREW, HEX HEAD (1/4"-20 x 5/8", Grade 5)	2
15	07-111600		WASHER, EXTERNAL TOOTH (1/4")	1
16	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	2
			Warning Horn ...	
17	03-731300		HORN, WARNING (Single terminal, Low note)	1
18	03-096000		TERMINAL, PIGGYBACK (#14 - #16 ga. wire)	2
19	03-092300		TERMINAL, COUPLING (Female, insulated, #14 - #16 ga. wire)	2
20	03-061800		DIODE, RECTIFIER (600 Volt, 6 Amp)	1
21	07-003003		CAP SCREW, HEX HEAD (1/4"-20 x 3/4", Grade 5)	1
22	07-060014		WASHER, FLAT (1/4", SAE)	2
23	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	1
			Harness ...	
24	03-473800		HOUSING, CONNECTOR (4 way, male)	1
25	03-474000		SOCKET, TERMINAL (#14 - #16 ga. wire)	4
26	03-474100		SEAL, WIRE (0.079" - 0.110" dia.)	4
27			CABLE, ELECTRICAL (SJO, #16 AWG)	A.R.
	03-085500		2 conductor (Bulk item, 1 ft [30.5 cm] required here)	
	03-085700		4 conductor (Bulk item, 1 ft [30.5 cm] required here)	
28	03-439000		TIE, CABLE (3.62" [92 mm] long)	12
			The following items **are not** included with the Alarm Package:	
29	07-062014		WASHER, FLAT (1/4")	8
30	07-050014		NUT, LOCK (1/4"-20, Grade 8)	4

TITLE: ALARM PACKAGE

SECTION E08. | PLATE NO. 03 | PAGE 01 | REV. - | DATED 23 APR., 1997 | PART NO. 355 1290

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172



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10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
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TITLE

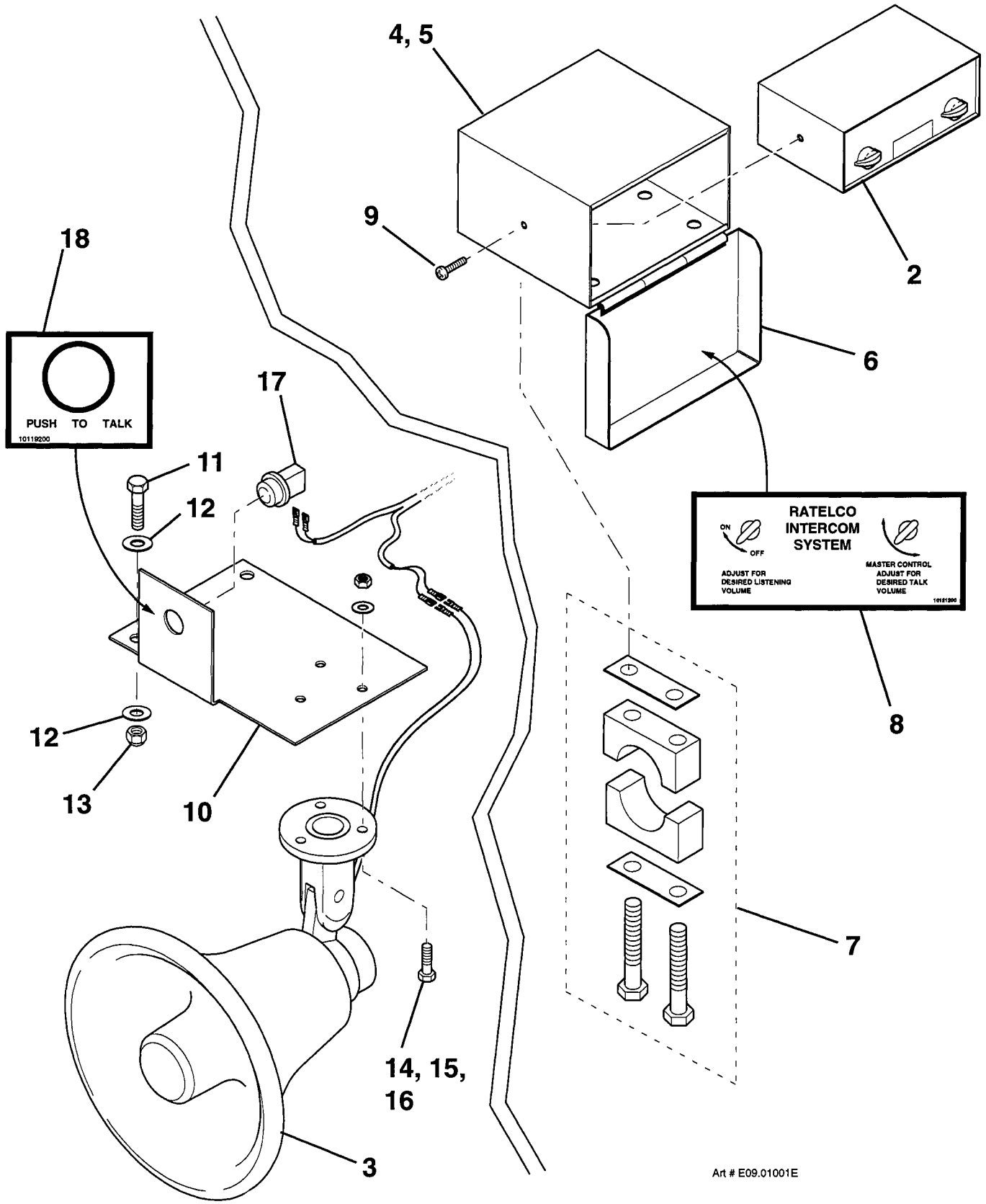
ALARM PACKAGE

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
355 1290	-	23 APR., 1997	E08.	03	01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-473400		INTERCOM SYSTEM (IC-10) (includes Master Station at platform, and Talkback Station at ground control panel)	1
2	Ref.		STATION, INTERCOM MASTER	1
3	Ref.		STATION, INTERCOM TALKBACK	1
4	No Part #		ENCLOSURE, INTERCOM MASTER STATION	1
5	2179950		BOX, INTERCOM MASTER STATION	1
6	2179960		DOOR, INTERCOM MASTER STATION	1
7	10-069600		CLAMP, TUBE (1-1/4" O.D.)	2
8	10-121200		DECAL, INTERCOM CONTROL (at platform)	1
9	Ref.		SCREW, MASTER STATION TO ENCLOSURE	2
10	2179970		BRACKET, TALKBACK SPEAKER MOUNTING (used in some applications)	1
11	Ref.		SCREW, BRACKET MOUNTING	2
12	Ref.		WASHER, BRACKET MOUNTING	4
13	Ref.		NUT, BRACKET MOUNTING	2
14	Ref.		SCREW, TALKBACK SPEAKER MOUNTING	3
15	Ref.		WASHER, TALKBACK SPEAKER MOUNTING	3
16	Ref.		NUT, TALKBACK SPEAKER MOUNTING	3
17	03-020300		SWITCH, PUSH BUTTON (Intercom ground operation)	1
18	10-119200		DECAL, "PUSH TO TALK"	1

TITLE	MOBILE INTERCOM SYSTEM (OPTION)			
PLATE NO.	E09.01	**SIMON AERIALS INC.**	NEW 02 MAY., 1994	PART NO.

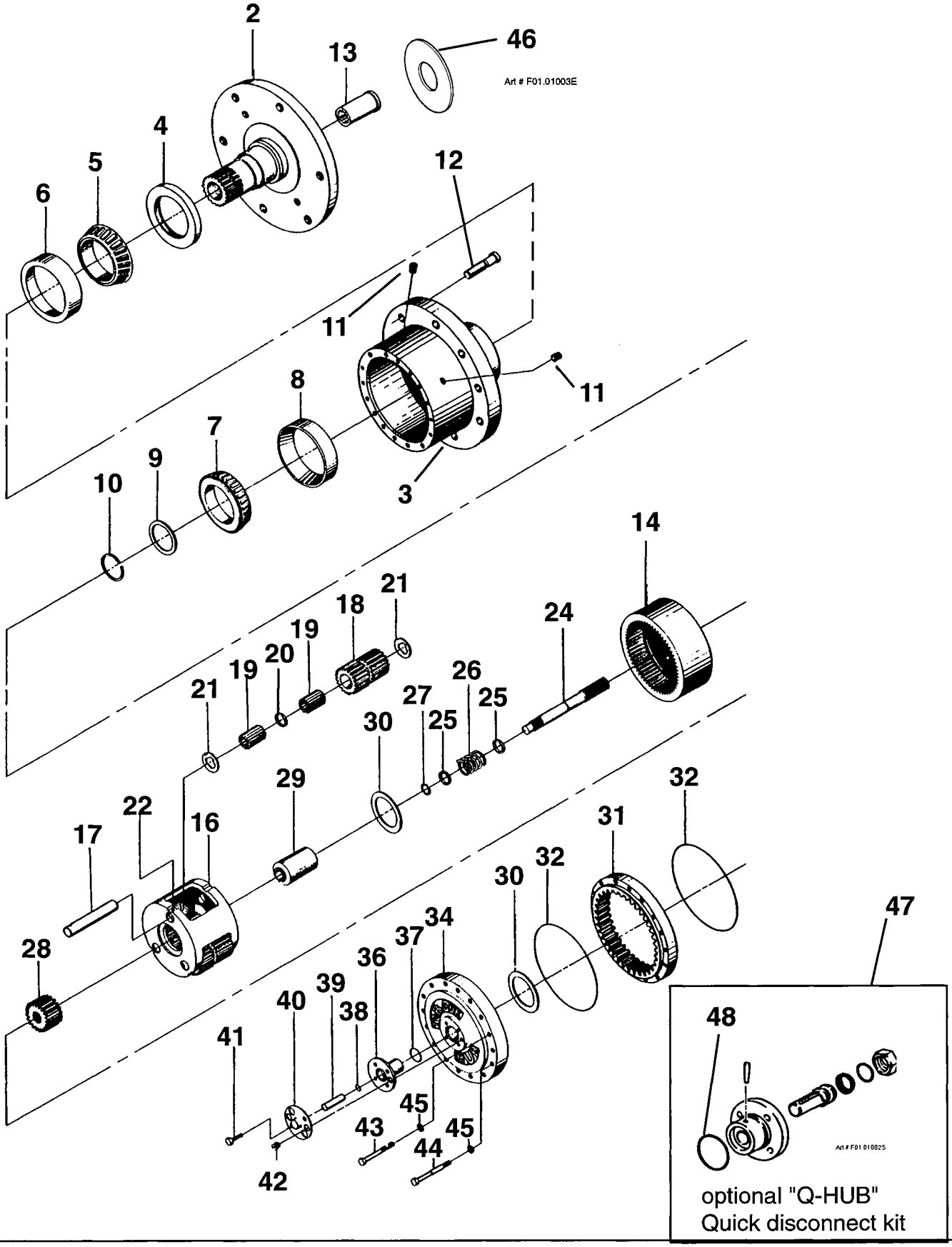


TITLE	MOBILE INTERCOM SYSTEM (OPTION)		
SIMON AERIALS INC. NEW 02 MAY., 1994		PART NO.	PLATE NO. E09.01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	02-000500		TORQUE HUB ASSEMBLY (24.85:1 Ratio) **Note:** Nameplate (found on Hub cover, item 34) reads "W1 **B14** 0324" or "W1 **BDN** 0324" on **"Type 1"** Hub (Torque Hubs built **prior to** October 1990). Nameplate reads "W1 **BFN** 0324" on **"Type 2"** Hub (Torque Hubs built October 1990 **and later**)	1
1			HUB AND SPINDLE ASSEMBLY	1
2	02-000502		SPINDLE (for **"Type 1"** Hub)	1
	02-000545		SPINDLE (for **"Type 2"** Hub)	1
3	02-000525		HUB [9 hole, 9.5" (241 mm) bolt circle] (for **"Type 1"** Hub)	1
	02-000547		HUB [9 hole, 9.5" (241 mm) bolt circle] (for **"Type 2"** Hub)	1
4	02-000507		SEAL, HUB (for **"Type 1"** Hub)	1
	02-000548		SEAL, HUB (for **"Type 2"** Hub)	1
5			CONE AND ROLLER, HUB BEARING (inner)	1
	02-000521		(for **"Type 1"** Hub)	
	02-000549		(for **"Type 2"** Hub)	
6	02-000520		CUP, HUB BEARING (inner) (for **"Type 1"** Hub)	1
	02-000550		CUP, HUB BEARING (inner) (for **"Type 2"** Hub)	1
7	02-000528		CONE AND ROLLER, HUB BEARING (outer)	1
8	02-000527		CUP, HUB BEARING (outer)	1
9	02-000518		SPACER, HUB	1
10	02-000517		RING, RETAINING	1
11	02-000533		PLUG, PIPE	2
12	02-000526		STUD, WHEEL MOUNTING (1/2"-20 x 1-7/8")	9
	07-030618		STUD, WHEEL MOUNTING (9/16"-18 x 2-1/8")	9
13	02-000503		COUPLING, MOTOR	1
14	02-000537		GEAR, INTERNAL	1
15	02-000536		CARRIER ASSEMBLY, PLANETARY	1
16	02-000532		CASE, CARRIER	1
17	02-000538		SHAFT, PLANET	3
18	02-000544		GEAR, PLANET	3
19	02-000540		ROLLER, NEEDLE	96
20	02-000505		SPACER	3
21	02-000539		WASHER, THRUST	6
22	02-000542		PIN, ROLL	3
23			SHAFT ASSEMBLY, INPUT	1
24	02-000506		SHAFT, INPUT	1
25	02-000505		SPACER	2
26	02-000504		SPRING	1
27	02-000509		RING, RETAINING	1

TITLE	TORQUE HUB (24.85:1) (PLATE 1 OF 2)				
PLATE NO.	F01.01	**SIMON AERIALS INC.**	REV. 24 AUG., 1994	PART NO.	02-000500

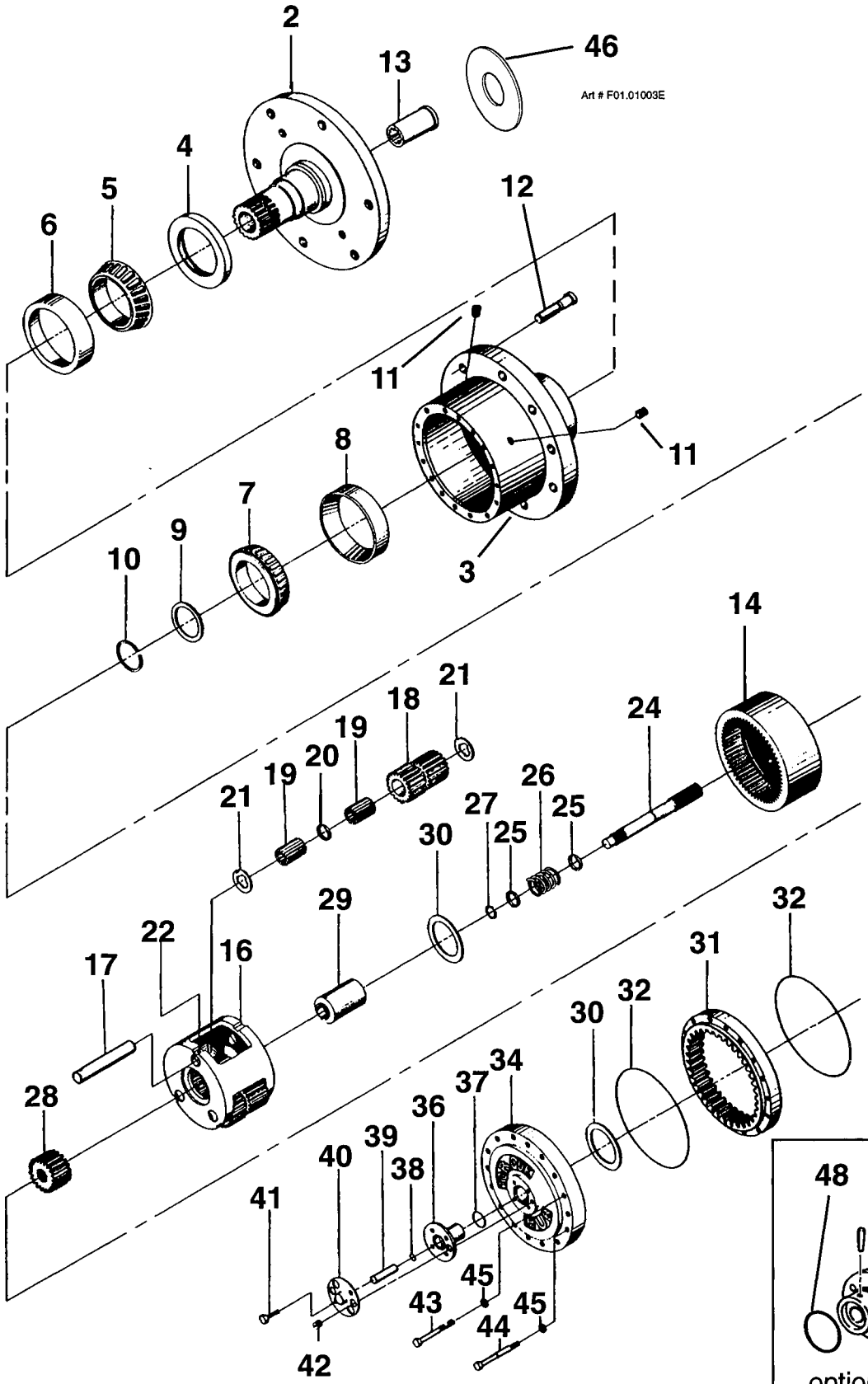


TITLE	TORQUE HUB (24.85:1) (PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 24 AUG., 1994		PART NO. 02-000500	PLATE NO. F01.01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
28	02-000530		GEAR, INPUT	1
29	02-000531		SPACER, THRUST	1
30	02-000529		WASHER, THRUST	2
31	02-000515		GEAR, RING	1
32	02-000516		"O"-RING	2
33			COVER ASSEMBLY, HUB	1
34	02-000508		COVER, HUB	1
35	02-000519		CAP, COVER	1
			Note: Items 35 through 42 are for units without "Q-hub" quick-disconnect option.	
36	02-000514		CAP, HEX	1
37	02-000513		"O"-RING	1
38	02-000512		"O"-RING	1
39	02-000511		ROD, DISCONNECT	1
40	02-000501		CAP, DISCONNECT	1
41	07-003003		BOLT (without "Q-hub" quick-disconnect option)	4
42	02-000533		PLUG, PIPE (Oil level check)	1
43	02-000534		BOLT	12
44	02-000524		BOLT, SHOULDER	4
45	02-000535		WASHER, FLAT	16
46	2176980		SPACER	1
			The following optional kit may be installed on your hub:	
47	02-000510		CAP KIT, COVER (quick-disconnect "Q-hub" kit)	1
48	02-000523		SEAL, DISCONNECT CAP	

TITLE	TORQUE HUB (24.85:1) (PLATE 2 OF 2)				
PLATE NO.	F01.01	**SIMON AERIALS INC.**	REV. 24 AUG., 1994	PART NO.	02-000500

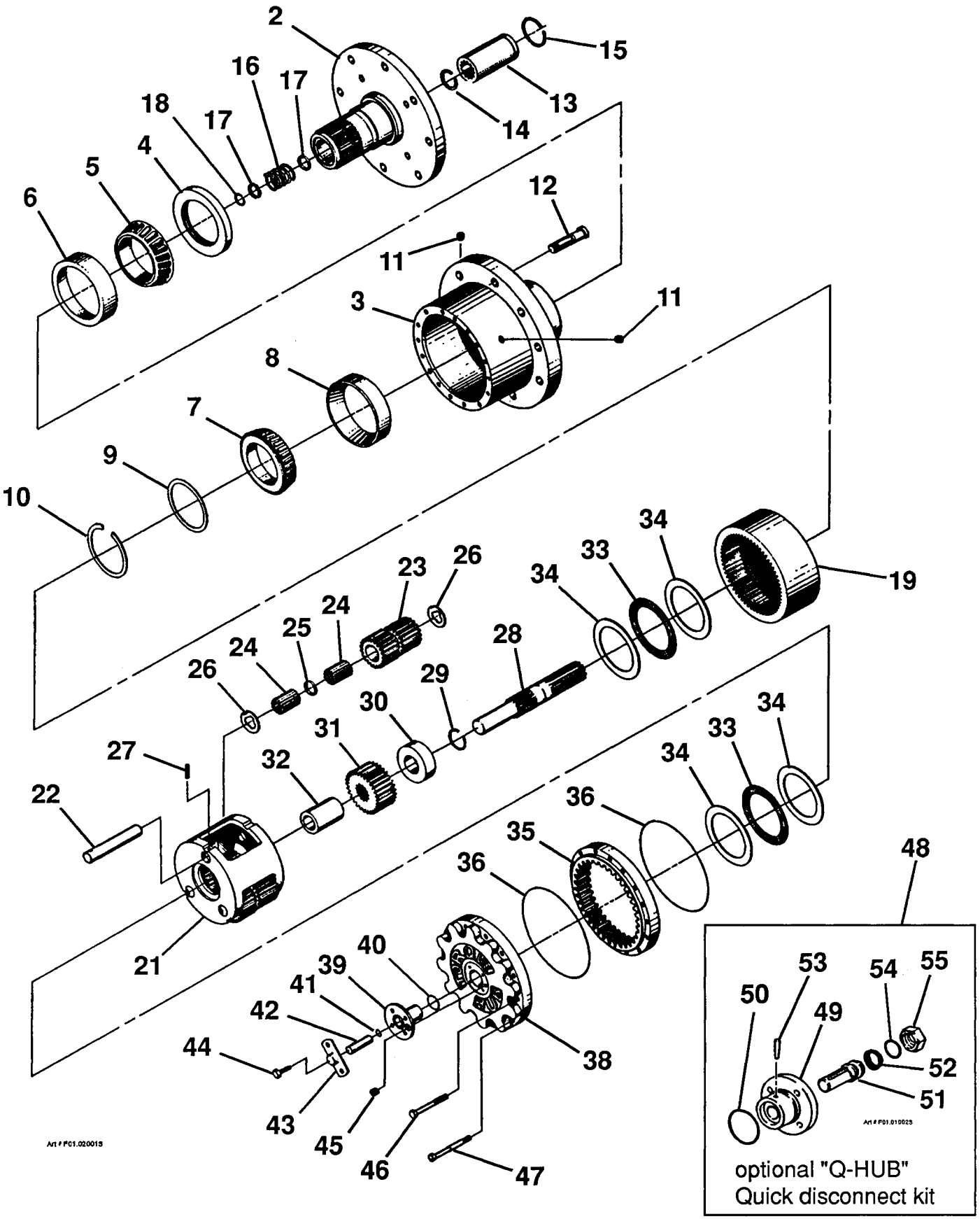


TITLE	TORQUE HUB (24.85:1) (PLATE 2 OF 2)		
SIMON AERIALS INC. REV. 24 AUG., 1994		PART NO. 02-000500	PLATE NO. F01.01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Note: Identification tag (on item 34) reads **"W3B110343 ZB"** (some earlier versions may read **"W3BM10343"**.)	
1			HUB AND SPINDLE ASSEMBLY	1
2	02-000620		SPINDLE	1
3	02-000628		HUB [10 hole, 13-3/16" (335 mm) bolt circle]	1
4	02-000605		SEAL, HUB	1
5	02-000617		CONE AND ROLLER, HUB BEARING (inner)	1
6	02-000632		CUP, HUB BEARING (inner)	1
7	02-000616		CONE AND ROLLER, HUB BEARING (outer)	1
8	02-000633		CUP, HUB BEARING (outer)	1
9	02-000623		SPACER, HUB	1
10	02-000606		RING, RETAINING	1
11			PLUG, PIPE	2
12	07-030651		STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5)	10
13	02-000615		COUPLING, MOTOR	1
14	02-000626		RING, RETAINING	1
15	02-000619		RING, RETAINING	1
16	02-000625		SPRING	1
17	02-000627		WASHER	2
18	02-000626		RING, RETAINING	1
19	02-000624		GEAR, INTERNAL	1
20	02-000622		CARRIER ASSEMBLY, PLANETARY	1
21			CASE, CARRIER	1
22	02-000635		SHAFT, PLANET	3
23	02-000637		GEAR, PLANET	3
24	02-000630		ROLLER, NEEDLE	84
25	02-000631		SPACER	3
26	02-000629		WASHER, THRUST	6
27	02-000636		PIN, ROLL	3
28	02-000614		SHAFT, INPUT	1
29	02-000619		RING, RETAINING	1
30	02-000611		SPACER, THRUST	1
31	02-000613		GEAR, INPUT	1
32	02-000612		SPACER, THRUST	1
33	02-000610		BEARING, THRUST	2
34	02-000609		WASHER, THRUST	4
35	02-000634		GEAR, RING	1
36	02-000607		O-RING	2

TITLE	TORQUE HUB (43:1) (PLATE 1 OF 2)				
PLATE NO.	F01.02	**SIMON AERIALS INC.**	REV.05/16/91	PART NO.	02-000600

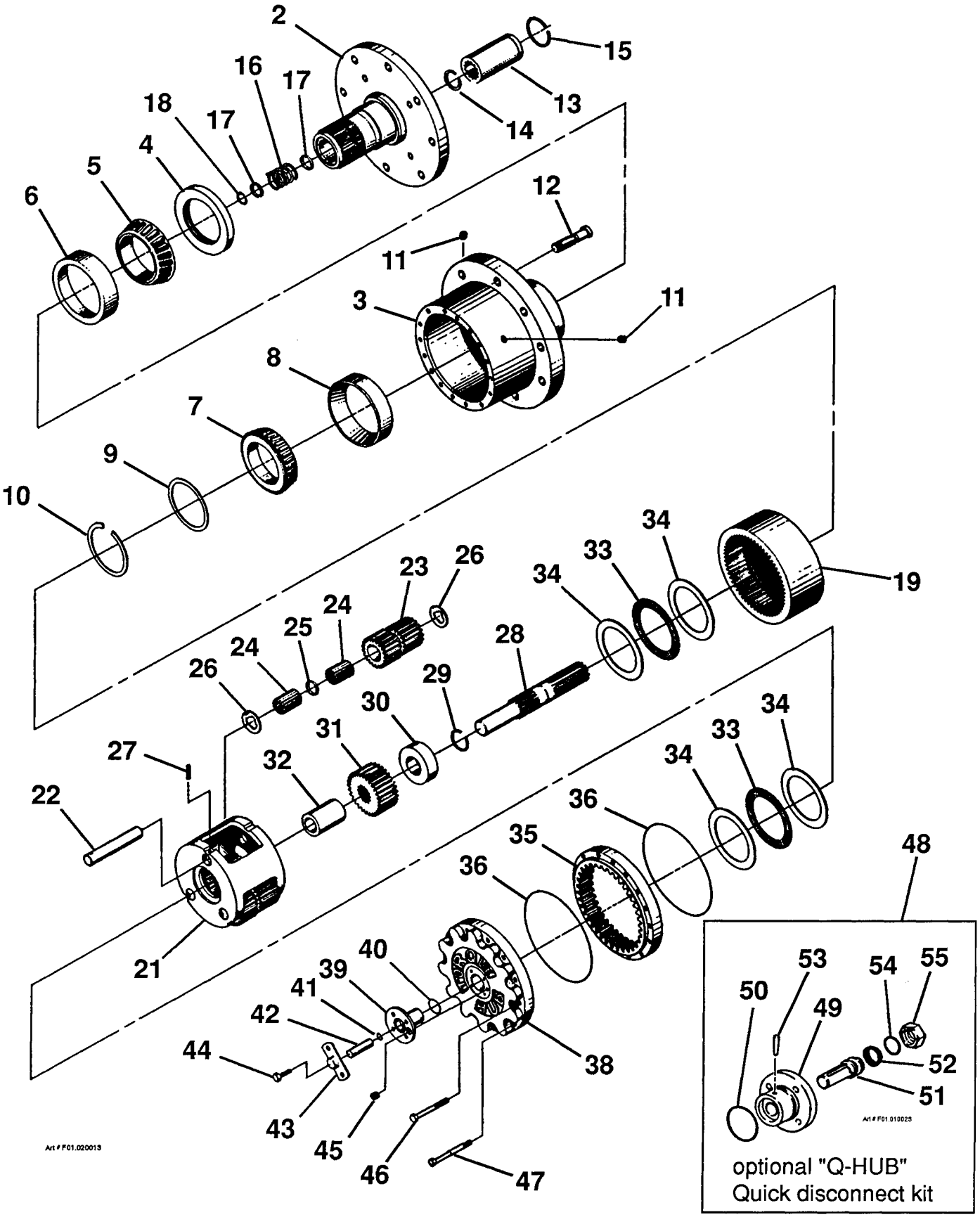


TITLE	TORQUE HUB (43:1) (PLATE 1 OF 2)		
SIMON AERIALS INC. REV.05/16/91	PART NO. 02-000600	PLATE NO. F01.02	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
37			COVER ASSEMBLY, HUB	1
38	02-000618		COVER, HUB	1
39	02-000601		CAP, COVER	1
			Note: Items 39 through 45 are for units without "Q-hub" quick-disconnect option.	
40	02-000608		"O"-RING	1
41	02-000512		"O"-RING	1
42	02-000603		ROD, DISCONNECT	1
43	02-000602		CAP, DISCONNECT	1
44			BOLT	4
45			PLUG, PIPE (Oil level check)	1
46			BOLT	8
47	02-000621		BOLT, SHOULDER	4
			The following optional kit may be installed on your hub:	
48	02-000604		CAP KIT, COVER (quick-disconnect "Q-hub" kit)	1
49			CAP, QUICK DISCONNECT	1
50			"O"-RING	1
51			ROD, DISCONNECT	1
52			SEAL, DISCONNECT ROD	1
53			PIN, ROLL	1
54			"O"-RING	1
55	02-000519		CAP, HEX	1

TITLE	TORQUE HUB (43:1) (PLATE 2 OF 2)			
PLATE NO. F01.02	**SIMON AERIALS INC.**	REV.06/28/91 THIS SHEET ONLY	PART NO.	02-000600

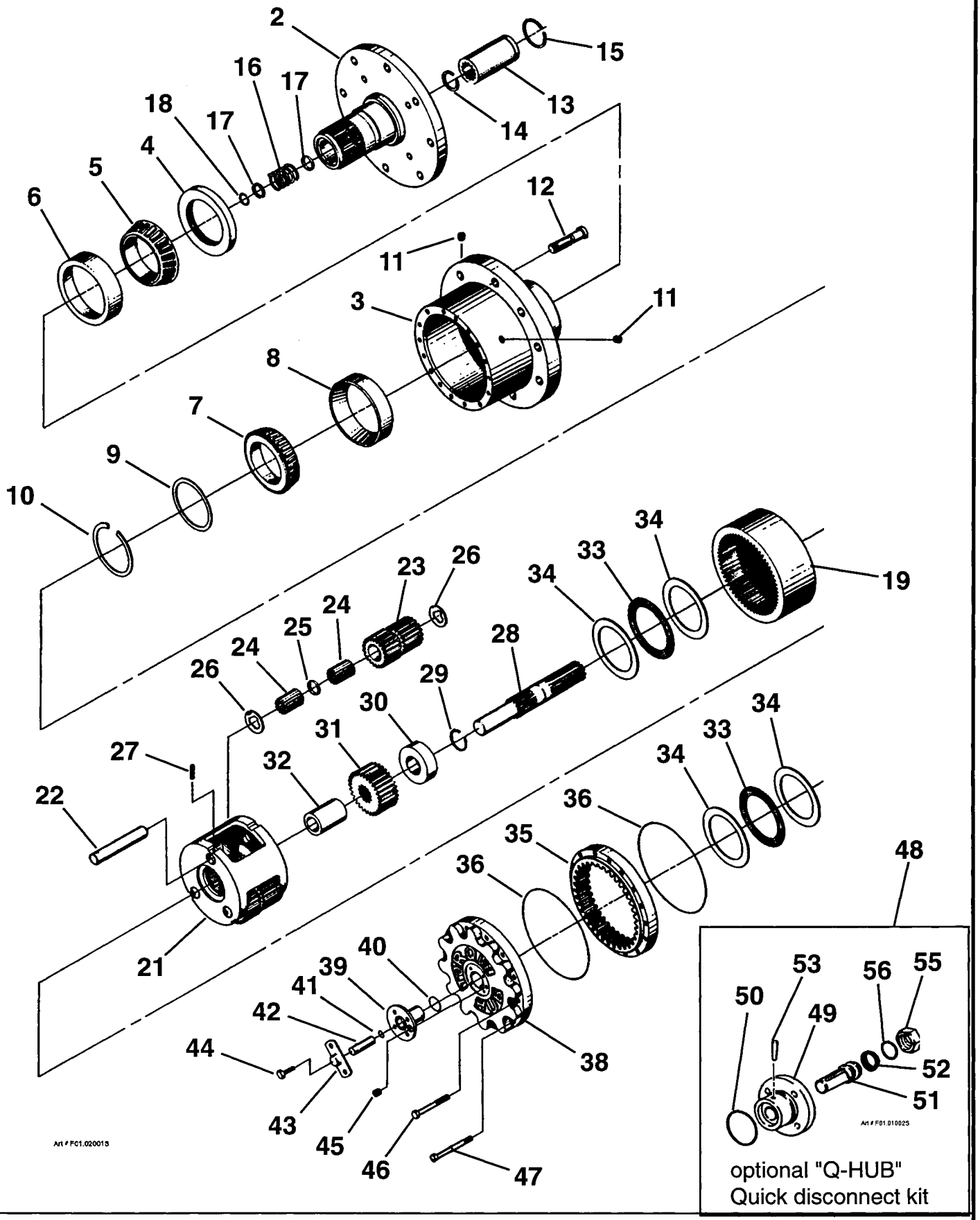


TITLE	TORQUE HUB (43:1) (PLATE 2 OF 2)		
SIMON AERIALS INC. REV.05/16/91	PART NO. 02-000600	PLATE NO. F01.02	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Note: Identification tag (on item 34) reads "**W3BX50354 ZB**"	
1			HUB AND SPINDLE ASSEMBLY	1
2	02-010504		SPINDLE	1
3	02-010503		HUB	1
4	02-000605		SEAL, HUB	1
5	02-000617		CONE AND ROLLER, HUB BEARING (inner)	1
6	02-000632		CUP, HUB BEARING (inner)	1
7	02-000616		CONE AND ROLLER, HUB BEARING (outer)	1
8	02-000633		CUP, HUB BEARING (outer)	1
9	02-000623		SPACER, HUB	1
10	02-000606		RING, RETAINING	1
11			PLUG, PIPE	2
12	02-010502		STUD, WHEEL MOUNTING	10
13	02-000615		COUPLING, MOTOR	1
14	02-000626		RING, RETAINING	1
15	02-000619		RING, RETAINING	1
16	02-000625		SPRING	1
17	02-000627		WASHER	2
18	02-000626		RING, RETAINING	1
19	02-000624		GEAR, INTERNAL	1
20	02-010501		CARRIER ASSEMBLY, PLANETARY	1
21			CASE, CARRIER	1
22	02-000635		SHAFT, PLANET	3
23	02-000637		GEAR, PLANET	3
24	02-000630		ROLLER, NEEDLE	84
25	02-010506		SPACER	3
26	02-010505		WASHER, THRUST	6
27	02-000636		PIN, ROLL	3
28	02-004801		SHAFT, INPUT	1
29	02-000619		RING, RETAINING	1
30			SPACER, THRUST	1
31	02-004803		GEAR, INPUT	1
32	02-004802		SPACER, THRUST	1
33	02-000610		BEARING, THRUST	2
34	02-000609		WASHER, THRUST	4
35	02-000634		GEAR, RING	1
36	02-000607		O-RING	2

TITLE	TORQUE HUB (54:1) (PLATE 1 OF 2)			
PLATE NO. F01.07	**SIMON AERIALS INC.**	REV. 07 JUN., 1994	**PART NO.**	02-010500

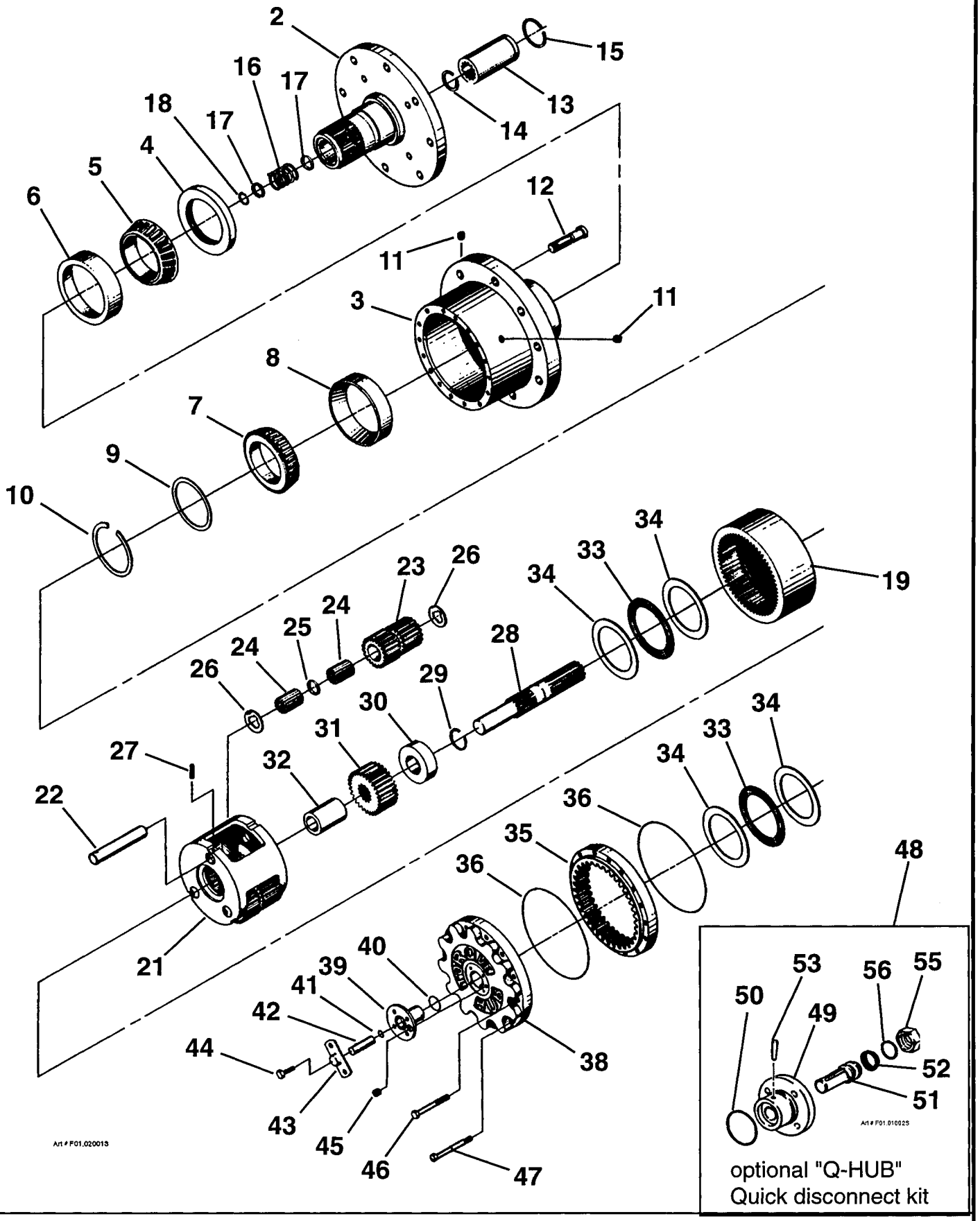


TITLE	TORQUE HUB (54:1) (PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 07 JUN., 1994	PART NO. 02-010500	PLATE NO. F01.07	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
37			COVER ASSEMBLY, HUB	1
38	02-000618		COVER, HUB	1
39	02-000601		CAP, COVER	1
			Note: Items 39 through 45 are for units without "Q-hub" quick-disconnect option.	
40	02-000608		"O"-RING	1
41	02-000512		"O"-RING	1
42	02-000603		ROD, DISCONNECT	1
43	02-000602		CAP, DISCONNECT	1
44			BOLT	4
45			PLUG, PIPE (Oil level check)	1
46			BOLT	8
47	02-000621		BOLT, SHOULDER	4
			The following optional kit may be installed on your hub:	
48	02-000604		CAP KIT, COVER (quick-disconnect "Q-hub" kit)	1
49			CAP, QUICK DISCONNECT	1
50	02-000608		"O"-RING	1
51			ROD, DISCONNECT	1
52	02-000523		SEAL, DISCONNECT ROD	1
53	02-000639		PIN, ROLL	1
54	02-000519		CAP, COVER	1
55	02-000514		CAP, HEX	1
56	02-000513		"O"-RING	1

TITLE	TORQUE HUB (54:1) (PLATE 2 OF 2)		
PLATE NO. F01.07	**SIMON AERIALS INC.** REV. 07 JUN., 1994	PART NO.	02-010500



TITLE	TORQUE HUB (54:1) (PLATE 2 OF 2)		
SIMON AERIALS INC. REV. 07 JUN., 1994	PART NO. 02-010500	PLATE NO. F01.07	

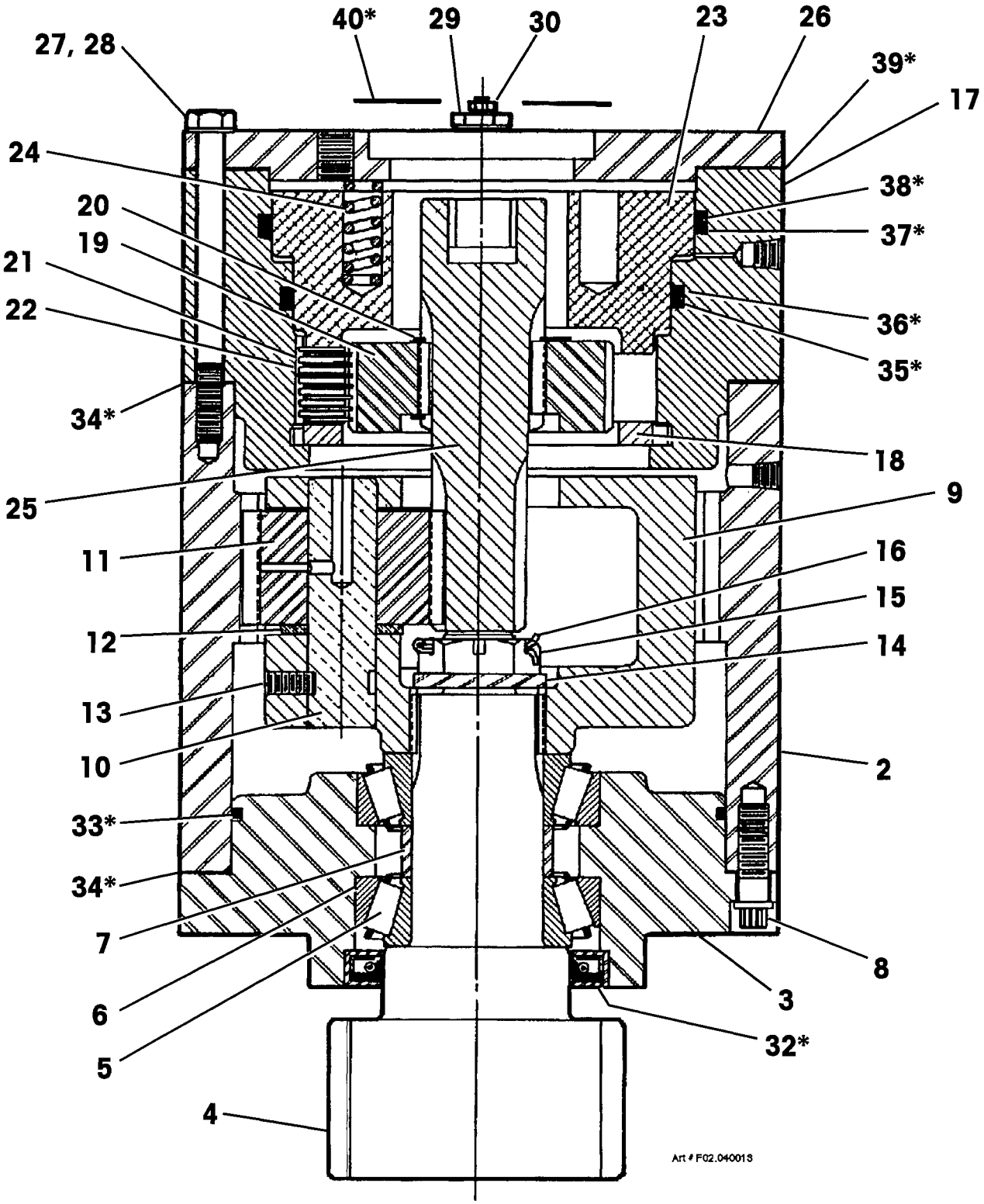
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	02-006100		SWING REDUCER ASSEMBLY (Identified on nameplate as "D105 00**29**-1" or "D105-00**36**-1")	1
2			HOUSING, SWING REDUCER	1
3	02-006111		PLATE, BASE	1
4	02-006102		SHAFT, OUTPUT	1
5	02-005703		CONE AND ROLLER, OUTPUT SHAFT BEARING	2
6	02-006114		CUP, OUTPUT SHAFT BEARING	2
7	02-006107		SPACER, BEARING	1
8	02-006115		CAP SCREW, FERRY (7/16"-14 x 1-1/4")	5
9	02-006117		CARRIER, PLANET	1
10	02-006103		SHAFT, PLANET GEAR	3
11	02-006118		GEAR, PLANET	3
12	02-006119		BEARING, THRUST	3
13	02-006120		SET SCREW, HEX SOCKET (5/16"-18 x 1/2")	3
14	02-006106		WASHER	1
15	02-006108		NUT, CASTLE	1
16			KEY, COTTER	1
17			CYLINDER, BRAKE	1
18			PLATE, BACK-UP	1
19	02-006116		DRIVER, BRAKE	1
20			SNAP RING	2
21	02-006113		DISC, BRAKE (stationary)	7
22	02-006112		DISC, FRICTION (rotating)	7
23	02-006110		PISTON, BRAKE	1
24	02-006109		SPRING, BRAKE	12
25	02-006104		SHAFT, INPUT	1
26	02-006101		COVER	1
27			CAP SCREW, HEX HEAD (3/8"-16 x 4-1/2", Grade 5)	6
28			WASHER, HELICAL LOCK (3/8")	6
29			BUSHING, REDUCER (1/2" to 1/8" NPT)	1
30			PLUG, VENT	1
31	02-005701		SEAL KIT	1
			Note: items in kit identified by asterisk (*).	
32			SEAL, OUTPUT SHAFT	1
33			"O"-RING, BASE PLATE	1
34			GASKET, HOUSING	2
35			"O"-RING	1
36			RING, BACKUP	1
37			"O"-RING	1
38			RING, BACKUP	1
39			GASKET, COVER	1
40			GASKET, MOTOR	1

TITLE: SWING REDUCER ASSEMBLY

SECTION F02. | PLATE NO. 04 | PAGE 01 | REV. - | DATED 26 AUG., 1994 | PART NO. 02-006 100

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172



Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172

TITLE

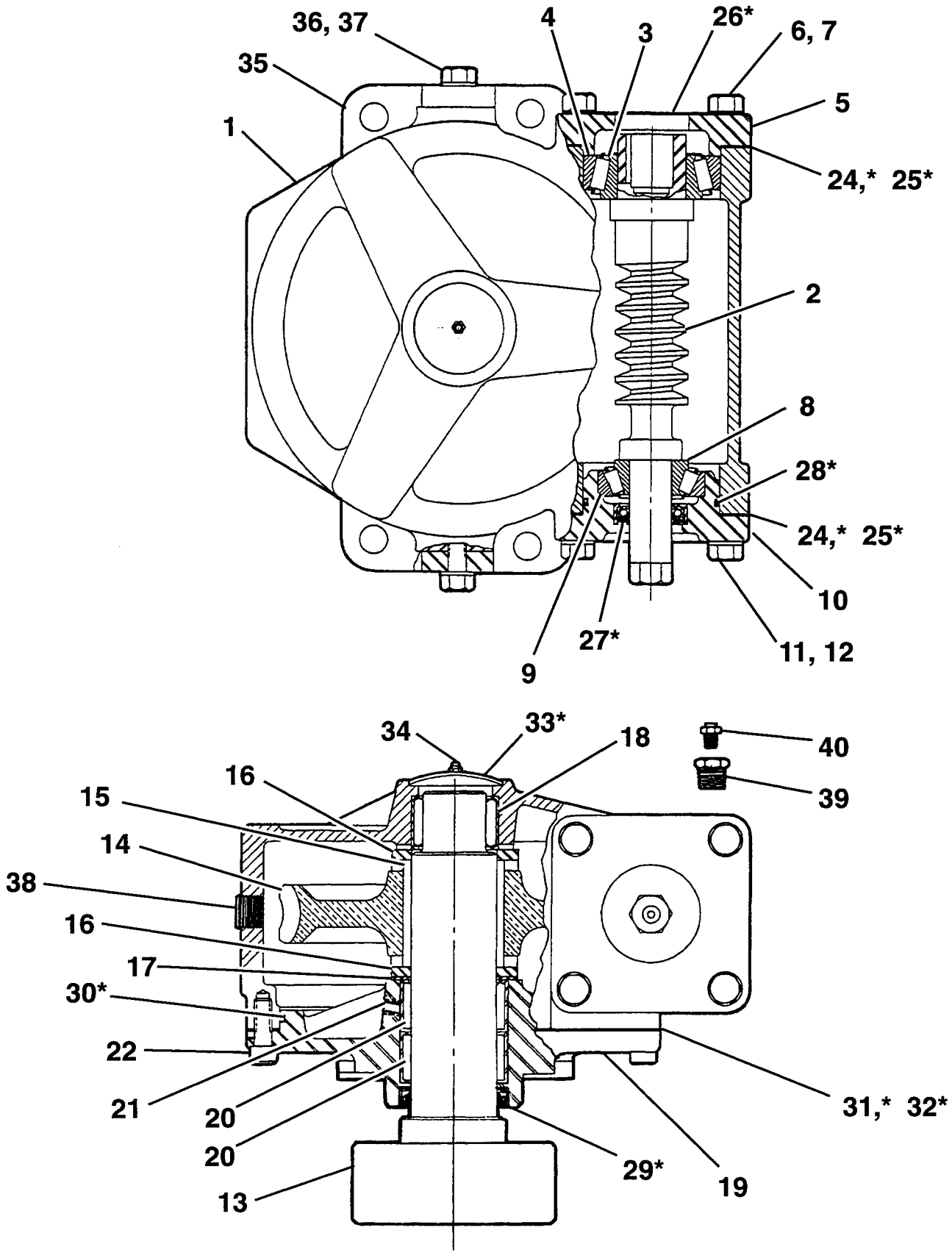
SWING REDUCER ASSEMBLY

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
02-006 100	-	26 AUG., 1994	F02.	04	01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			HOUSING, SWING REDUCER	1
2	02-000702		SHAFT, WORM	1
3	02-000423		CONE AND ROLLER, INPUT BEARING (1-5/8" [41mm] bore)	1
4	02-000402		CUP, INPUT BEARING (3-1/4" [83 mm] O.D.)	1
5	02-000406		RETAINER, INPUT BEARING	1
6			CAP SCREW, HEX HEAD (7/16"-14 x 1-1/2", Grade 5)	4
7			WASHER, LOCK (7/16")	4
8	02-000421		CONE AND ROLLER, BEARING (1" [25 mm] bore)	1
9	02-000434		CUP, BEARING (2-9/16" [65 mm] O.D.)	1
10	02-000433		RETAINER, BEARING	1
11			CAP SCREW, HEX HEAD (7/16"-14, Grade 5)	4
12			WASHER, LOCK (7/16")	4
13	02-000701		SHAFT, OUTPUT	1
14	02-000418		GEAR, WORM	1
15	02-000444		KEY (3/8" [9.5 mm] square)	2
16	02-000407		RING, THRUST	2
17	02-000408		SPACER	1
18	02-000427		BEARING, ROLLER (1-1/2" [38 mm] I.D.)	1
19	02-000703		COVER, SWING REDUCER	1
20	02-000428		BEARING, ROLLER (2" [51 mm] I.D.)	2
21			SET SCREW	1
22	02-000461		CAP SCREW (7/16"-14 x 1")	6
23	02-000460		SEAL KIT, SWING REDUCER	1
24	02-000409		GASKET, BEARING RETAINER (1/64" [0.4 mm]) (4 in kit)	A.R.
25	02-000410		GASKET, BEARING RETAINER (1/32" [0.8 mm]) (4 in kit)	A.R.
26	02-000413		GASKET, MOTOR MOUNTING	1
27	02-000431		SEAL, WORM SHAFT (1" [25 mm] I.D.)	1
28	02-000429		"O"-RING, BEARING RETAINER	1
29	02-000432		SEAL, OUTPUT SHAFT (2" [51 mm] I.D.)	1
30	02-000430		"O"-RING, COVER	1
31	02-000411		GASKET, COVER (1/64" [0.4 mm] red fiber) (2 in kit)	A.R.
32	02-000412		GASKET, COVER (1/32" [0.8 mm] red fiber) (2 in kit)	A.R.
33	02-000414		PLUG, EXPANSION (drilled for grease fitting)	1
34	08-053100		FITTING, GREASE (1/4"-28, straight)	1
35			BRACKET	2
36			CAP SCREW, HEX HEAD (7/16"-14 x 1", Grade 5)	4
37			WASHER, LOCK (7/16")	4
38			PLUG, PIPE (1/2"-14 NPT)	1
39			BUSHING, REDUCER	1
40	02-000439		PLUG, VENT (1/8" NPT)	1

TITLE	SWING REDUCER ASSEMBLY		
PLATE NO. F02.05	**SIMON AERIALS INC.** REV. 26 AUG., 1994	PART NO.	02-000700



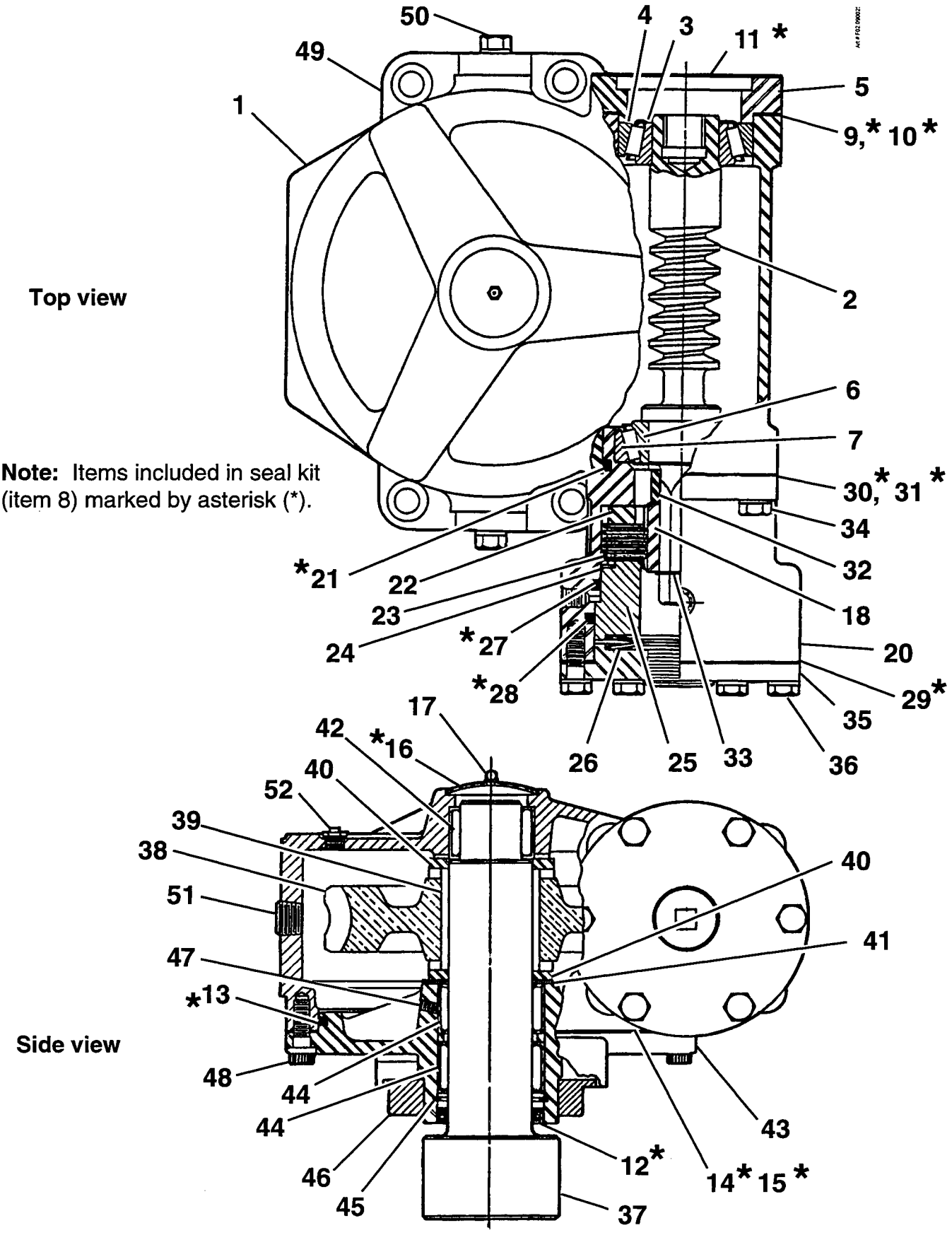
TITLE	SWING REDUCER ASSEMBLY		
SIMON AERIALS INC. REV. 26 AUG., 1994	PART NO. 02-000700	PLATE NO. F02.05	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			HOUSING, SWING REDUCER	1
2			SHAFT, WORM	1
3	02-000423		CONE AND ROLLER, BEARING (1-5/8" [41 mm] bore)	2
4			CUP, BEARING	2
5			RETAINER, INPUT BEARING	1
6	02-000421		CONE AND ROLLER, BEARING (1" [25 mm] bore)	2
7			CUP, BEARING	2
8	02-009101		SEAL KIT, SWING REDUCER (Some items in seal kit are also part of brake assembly.	
			Items in kit indicated by asterisks [*])	1
9	02-000409	*	GASKET, BEARING RETAINER [1/64" (0.4 mm)]	1
10	02-000410	*	GASKET, BEARING RETAINER [1/32" (0.8 mm)]	1
11		*	GASKET, MOTOR MOUNTING	1
12		*	SEAL, OUTPUT SHAFT	1
13	02-000430	*	"O"-RING, COVER	1
14	02-000411	*	GASKET, COVER (1/64" [0.4 mm] red fiber)	A.R.
15	02-000412	*	GASKET, COVER (1/32" [0.8 mm] red fiber)	A.R.
16	02-000414	*	PLUG, EXPANSION (drilled for grease fitting)	1
17			FITTING, GREASE	1
18			DRIVER, BRAKE	1
19	02-009110		BRAKE ASSEMBLY	1
20			HOUSING, BRAKE	1
21	02-000429	*	"O"-RING, BRAKE HOUSING	1
22			SPACER, BRAKE	1
23	02-005104		PLATE, DRIVER	5
24	02-005103		DISC, BRAKE	6
25	02-009107		PISTON	1
26	02-009109		SPRING	2
27	02-009140	*	"O"-RING	1
28	02-009141	*	"O"-RING	1
29		*	GASKET, BRAKE COVER [1/32" (0.8 mm)]	1
30	02-000409	*	GASKET, BRAKE HOUSING (1/64" [0.4 mm])	1
31	02-000410	*	GASKET, BRAKE HOUSING [1/32" (0.8 mm)]	1
32			SPACER, BRAKE DRIVER	1
33			RING, SNAP	2
34			CAP SCREW, HEX HEAD (7/16"-14 x 1-1/2" long)	4
35			COVER, BRAKE	1
36			CAP SCREW, HEX HEAD (7/16"-14 x 1-1/4" long)	6

TITLE SWING REDUCER (PLATE 1 OF 2)

PLATE NO. F02.09 | **SIMON AERIALS INC.** REV. 25 AUG., 1994 | **PART NO.** 02-009100

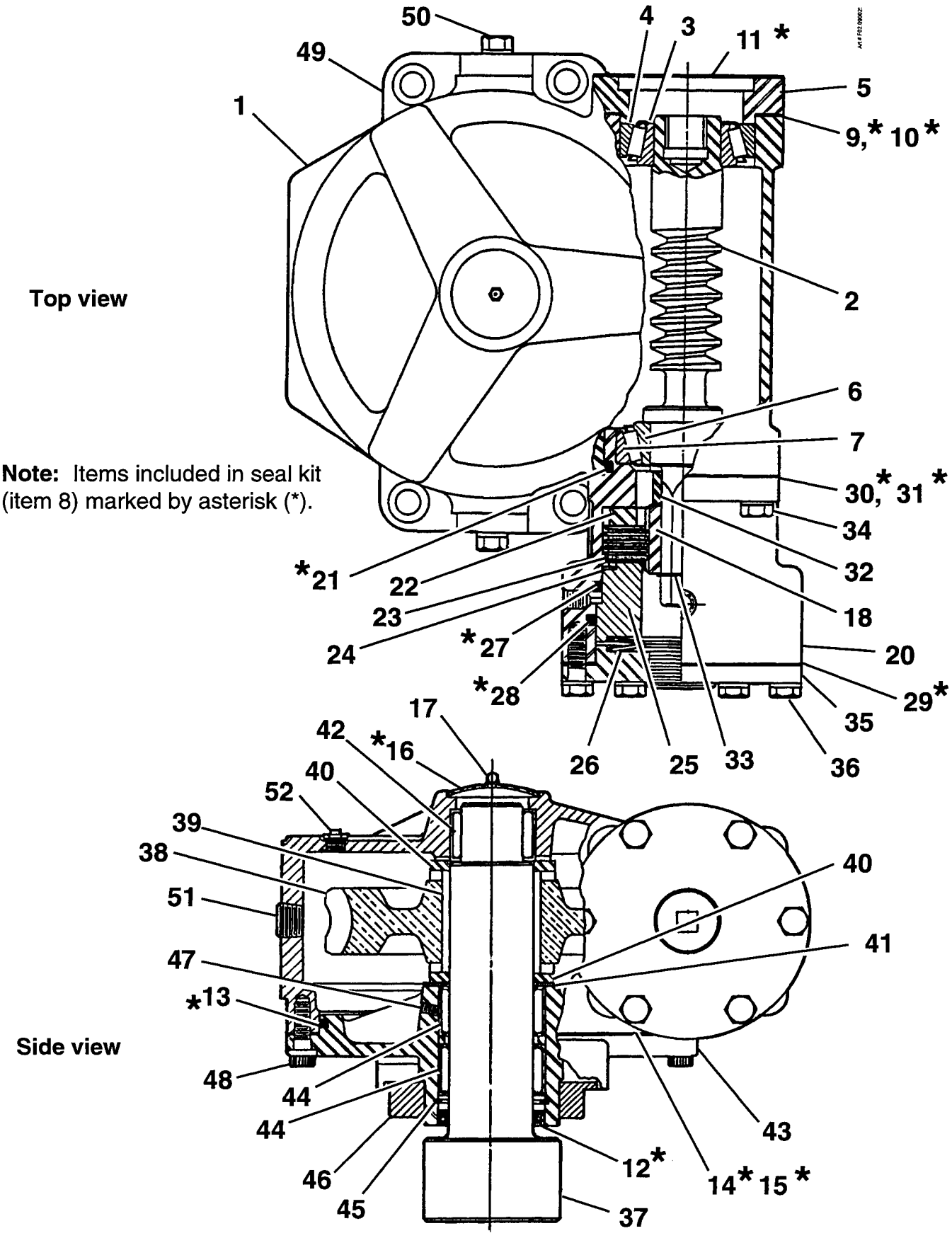


TITLE	SWING REDUCER (PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 25 AUG., 1994	PART NO. 02-009100	PLATE NO. F02.09	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
37	02-009103		SHAFT, OUTPUT	1
38			GEAR, WORM	1
39			KEY	2
40	02-009111		RING, THRUST	2
41	02-009102		SPACER	1
42	02-000427		BEARING, ROLLER (1-1/2" [38 mm] I.D.)	1
43	02-009108		COVER, SWING REDUCER	1
44			BEARING, ROLLER	2
45			RING, SNAP	1
46			RING, ECCENTRIC	1
47			SET SCREW (not used)	
48			CAP SCREW (Ferry, 7/16"-14 x 1" long)	6
49			BRACKET	1
50			CAP SCREW, HEX HEAD (7/16"-14 x 1" long)	4
51			PLUG, PIPE	1
52	02-000439		PLUG, VENT	1

TITLE	SWING REDUCER (PLATE 2 OF 2)	
PLATE NO. F02.09	**SIMON AERIALS INC.** REV. 25 AUG., 1994	PART NO. 02-009100



TITLE	SWING REDUCER (PLATE 2 OF 2)		
SIMON AERIALS INC. REV. 25 AUG., 1994	PART NO. 02-009100	PLATE NO. F02.09	

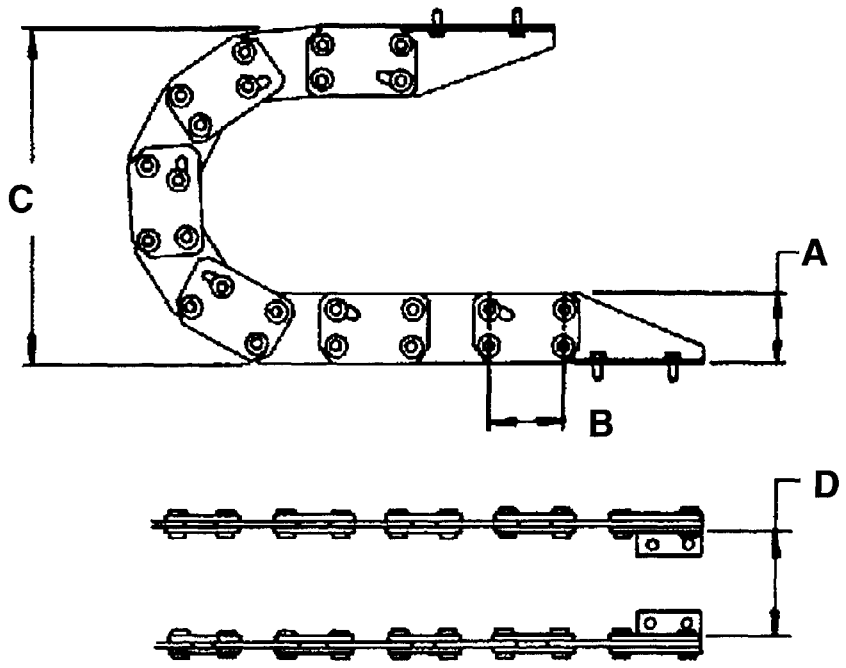
PARTS LIST

Section Number	Part Number	Track Style	Ref. Dimension "A"	"B"	"C"	"D"	No. of Links	Model Usage (ref. only)	Notes
Gemco Hose Track:									
F 3.1	08-000600	EE	2-3/4"	3"	13-1/4"	6"	97		not current production
- - - - -	08-000601	EE	2-3/4"	3"	13-1/4"	6"	- - -		**3' section of style "EE"**
F 3.2	08-001000	CC	2-3/4"	3"	13-1/4"	6"	93		not current production
F 3.3	08-001600	2A	1-3/4"	2-1/2"	13-1/4"	6"	65		not current production
- - - - -	08-001615	2A	1-3/4"	2-1/2"	13-1/4"	6"	- - -		**3' section of style "2A"**
F 3.4	08-003600	2A	1-3/4"	2-1/2"	13-1/4"	6"	77		not current production
- - - - -	08-003700	3CM	4"	6"	13-1/4"	6"	19		not current production
F 3.5	08-005000	EE	2-3/4"	3"	13-1/4"	6"	93		not current production
F 3.6	08-010400	EE	2-3/4"	3"	13-1/4"	6"	63		not current production
Gleason Type 25, 35, 45 Hose Track:									
F 3.25	08-000400	25	1-3/4"	2-1/2"	13"	6"	76		
F 3.26	08-000700	25	1-3/4"	2-1/2"	13"	4"	44	MP 40 Elec.Prop. MP 40 Hydraport	
- - - - -	08-000701	25	1-3/4"	2-1/2"	13"	4"	- - -		**3' section of style "25" (when dim. "C" = 13" and dim. "D" = 4")**
F 3.27	08-000900	25	1-3/4"	2-1/2"	13"	6"	14		
F 3.28	08-008900	45	3-3/4"	5"	16"	6"	65		
F 3.29	08-009100	25	1-3/4"	2-1/2"	13"	4"	66		
F 3.30	08-009500	45	3-3/4"	5"	16"	6"	48		
F 3.31	08-009800	45	3-3/4"	5"	16"	6"	53		
F 3.32	08-011800	25	1-3/4"	2-1/2"	8-5/8"	4"	29		
- - - - -	08-011801	25	1-3/4"	2-1/2"	8-5/8"	4"	- - -		**3' section of style "25" (with dim. "C" = 8-5/8" and dim. "D" = 4")**

Gleason Type 25, 35, 45, continued on next sheet

TITLE HOSE TRACK ASSEMBLIES (PLATE 1 OF 3)

PLATE NO. F03 ALL | **SIMON AERIALS INC.** REV. 17 FEB., 1994 | **PART NO.**



GEMCO

for Gleason Type 25, 35, 45, see next sheet

TYPE	LINK CONSTRUCTION		TYPE	LINK CONSTRUCTION	
1A		Not used	FF		Not used
2A			GG		Not used
BB		Not used	2CM		Not used
CC			3CM		
EE					

NOTE:

Three (3) foot repair sections of most styles are available; refer to the shaded sections of the chart. Three (3) foot repair sections of styles not shown are available upon request; please refer to the part number and type matching your requirements when ordering.

To select hose track that is not specifically identified in the chart:

(1) Determine the make, type and size of link construction.

(2) Refer to the parts list and match the type to the overall height (C), width (D) and number of links.

TITLE	HOSE TRACK ASSEMBLIES (PLATE 1 OF 3)		
SIMON AERIALS INC. REV. 17 FEB., 1994		PART NO.	PLATE NO. F03 ALL

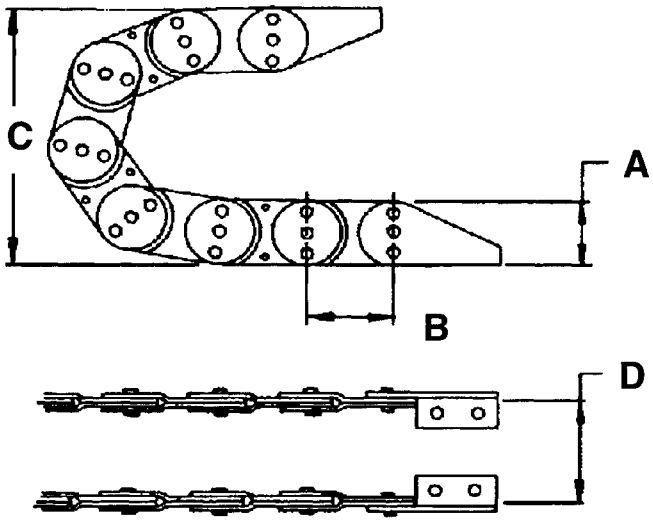
PARTS LIST

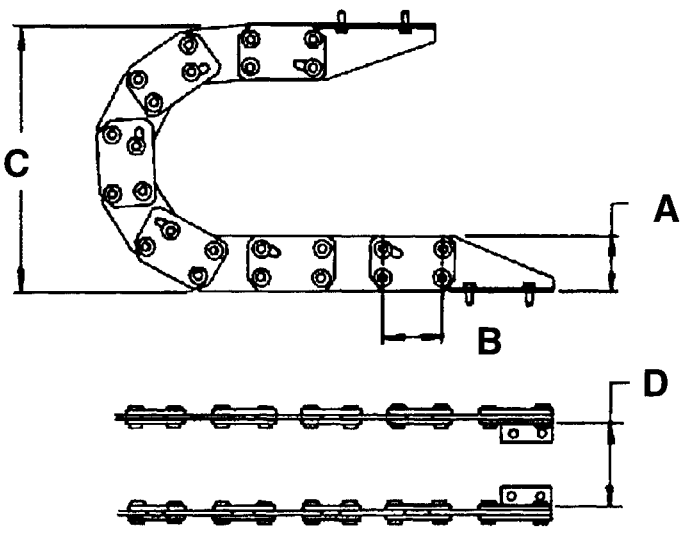
Section Number	Part Number	Track Style	Ref. Dimension "A"	"B"	"C"	"D"	No. of Links	Model Usage (ref. only)	Notes
Gleason Type 25, 35, 45 Hose Track (continued):									
F 3.33	08-011900	45	3-3/4"	5"	16"	6"	43	MPH 60 Full Hyd. MPH 60 Hydraport	not current production not current production
- - - - -	08-011901	45	3-3/4"	5"	16"	6"	- - -		**3' section of style "45" (when dim. "C" = 16")**
F 3.34	08-012400	45	3-3/4"	5"	16"	6"	63	MP 70 Full Hyd. MP 70 Hydraport MP 80 All MPH 80 Full Hyd. MP 95 All MP 110 (Inner) All	not current production not current production not current production not current production not current production not current production
F 3.35	08-013000	25	1-3/4"	2-1/2"	8-5/8"	4"	44		
F 3.36	08-013400	25	1-3/4"	2-1/2"	8-5/8"	4"	69		
F 3.37	08-013500	25	1-3/4"	2-1/2"	8-5/8"	4"	39		
F 3.38	08-014900	25	1-3/4"	2-1/2"	8-5/8"	4"	81		
F 3.39	08-015100	45	3-3/4"	5"	16"	6"	45		
F 3.40	08-056000	35	2-5/8"	3-3/4"	26"	6"	96		
- - - - -	08-056001	35	2-5/8"	3-3/4"	26"	6"	- - -		**3' section of style "35" (when dim. "C" = 26")**
F 3.41	08-056100	45	3-3/4"	5"	27"	6"	39	MP 110 (Outer) All	not current production
- - - - -	08-056101	45	3-3/4"	5"	27"	6"	- - -		**3' section of style "45" (when dim. "C" = 27")**
A and A "Gortite" Hose Track:									
- - - - -	08-056200		2"	2-1/2"	9-7/8"	4"	83		not current production
- - - - -	08-056201		2"	2-1/2"	9-7/8"	4"	15		**3' section, style "A+A"**
Gleason Type 25, 35, 45 Hose Track (continued):									
F 3.42	08-056700	35	2-5/8"	3-3/4"	15"	6"	55		
F 3.43	08-058300	35	2-5/8"	3-3/4"	15"	6"	29	MP 40 Full Hyd. Trailblazer 40	not current production current production
- - - - -	08-058301	35	2-5/8"	3-3/4"	15"	6"	- - -		**3' section of style "35" (when dim. "C" = 15")**
F 3.44	08-058400	35	2-5/8"	3-3/4"	15"	6"	56	MP 60 Full Hyd.	not current production
F 3.45	08-060200	25	1-3/4"	2-1/2"	13"	6"	81	MP 60, MPN 60, and MP 60 Z Electro-Prop. or Hydraport	
- - - - -	08-060201	25	1-3/4"	2-1/2"	13"	6"	- - -		**3' section of style "25" (when dim. "C" = 13" and dim. "D" = 6")**
F 3.46	08-062100	35	2-5/8"	3-3/4"	15"	6"	58		
- - - - -	08-063500	35	2-5/8"	3-3/4"	15"	6"	19		
- - - - -	08-069100	35	2-5/8"	3-3/4"	15"	6"	33		
- - - - -	08-070200							MPN 40 Full Hyd. (with 3 Pc. Boom)	not current production

for Gleason Type 25E, 35E, 45E, see next sheet

TITLE: HOSE TRACK ASSEMBLIES (PLATE 2 OF 3)

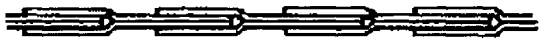
PLATE NO. F03 ALL | **SIMON AERIALS INC.** REV. 17 FEB., 1994 | PART NO.





for Gleason Type 35E, 45E, see next sheet

GLEASON **A AND A**

TYPE	LINK CONSTRUCTION	TYPE	LINK CONSTRUCTION
25			
35			
45			

NOTE:

Three (3) foot repair sections of most styles are available; refer to the shaded sections of the chart. Three (3) foot repair sections of styles not shown are available upon request; please refer to the part number and type matching your requirements when ordering.

To select hose track that is not specifically identified in the chart:

(1) Determine the make, type and size of link construction.

(2) Refer to the parts list and match the type to the overall height (C), width (D) and number of links.

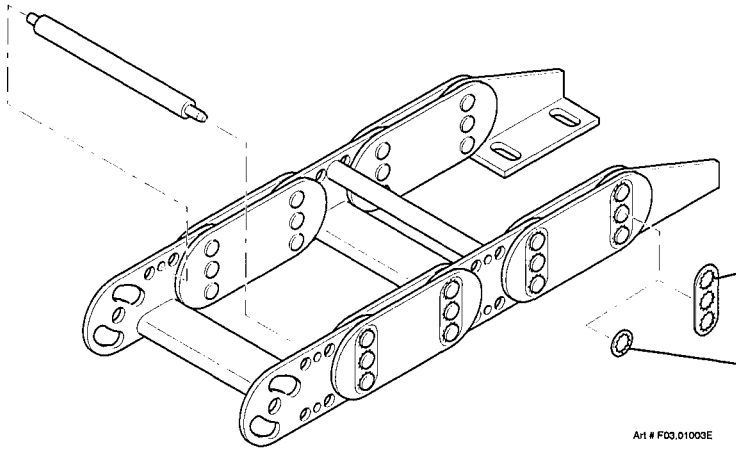
TITLE	HOSE TRACK ASSEMBLIES (PLATE 2 OF 3)		
SIMON AERIALS INC. REV. 17 FEB., 1994		PART NO.	PLATE NO. F03 ALL

PARTS LIST

Section Number	Part Number	Track Style	Ref. Dimension "A"	"B"	"C"	"D"	No. of Links	Model Usage (ref. only)	Notes
Gleason Type 25E, 35E, 45E Hose Track:									
- - - - -	08-072600	35E	2-3/4"	3-3/4"	13-1/8"	6"	29	MP 40 Full Hyd. Trailblazer 40	
- - - - -	08-072602	35E	2-3/4"	3-3/4"	13-1/8"	6"	- - -		3' section, style 35E
- - - - -	08-072700	35E	2-3/4"	3-3/4"	13-1/8"	6"	55	MP 60, MPN 60, and MP 60 Z Full Hydraulic	
- - - - -	08-072701	35E	- - -	- - -	- - - -	- - -	- - -	for Field Service	Pushnut (single type)
- - - - -	08-072800	45E	3-3/4"	5"	15-1/8"	6"	61	MP 80 All	
- - - - -	08-072801	45E	- - -	- - -	- - - -	- - -	- - -	for Field Service	Pushnut (single type)
- - - - -	08-072802	45E	3-3/4"	5"	15-1/8"	6"	- - -		3' section, style 45E
- - - - -	08-072900	35E	2-3/4"	3-3/4"	13-1/8"	6"	58	Trailblazer 60	Mounting one end
- - - - -	08-073000	35E	2-3/4"	3-3/4"	13-1/8"	6"	32	MPH 42 Full Hyd.	
- - - - -	08-073100	35E	2-3/4"	3-3/4"	13-1/8"	6"	35	MPN 40 Full Hyd. (with 3 Pc. Boom)	
- - - - -	08-073200	35E	2-3/4"	3-3/4"	13-1/8"	6"	39	MP 50 Full Hyd.	
- - - - -	08-073300	45E	3-3/4"	5"	15-1/8"	6"	45	MPH 60 Full Hyd. MP 70 Hydraport	
- - - - -	08-073400	45E	3-3/4"	5"	15-1/8"	6"	54	MP 70 Full Hyd. MP 70 Hydraport	
- - - - -	08-073500	45E	3-3/4"	5"	15-1/8"	6"	59	MPH 80 Full Hyd. MPH 80 Hydraport	
- - - - -	08-073600	45E	3-3/4"	5"	15-1/8"	6"	64	MP 110 (Inner)	All without Keel Boom
- - - - -	08-073700	45E	3-3/4"	5"	15-1/8"	6"	69	MP 95 All	
- - - - -	08-076700	25E	1-3/4"	2-1/2"	13-1/8"	4"	44	MP 40 Hydraport or Electro-Prop.	
- - - - -	08-076800	25E	1-3/4"	2-1/2"	13-1/8"	4"	54	MP 50 Hydraport or Electro-Prop.	
- - - - -	08-076900	25E	1-3/4"	2-1/2"	13-1/8"	4"	81	MP 60, MPN 60, and MP 60 Z Hydraport or Electro-Prop.	
- - - - -	Call Simon	25E	- - -	- - -	- - - -	- - -	- - -	for Field Service	Pushnut (single type)
- - - - -	Call Simon	25E	1-3/4"	2-1/2"	13-1/8"	4"	- - -		3' section, style 25E
- - - - -	08-077000	45E	3-3/4"	5"	15-1/8"	6"	39	MP 110 (Outer)	All without Keel Boom
- - - - -	08-077200	45E	3-3/4"	5"	26-1/8"	4"	39	MP 110 (Outer)	All with Keel Boom
- - - - -	08-077300	45E	3-3/4"	5"	15-1/8"	4"	64	MP 110 (Inner)	All with Keel Boom

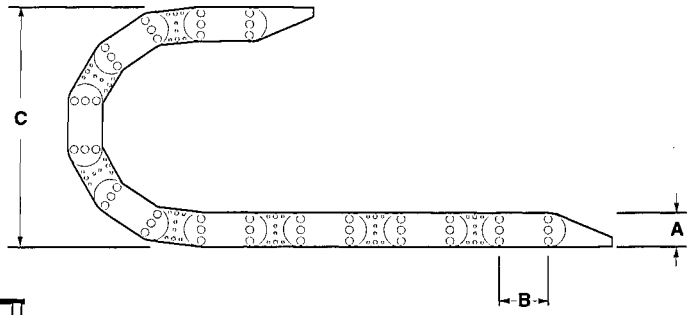
TITLE HOSE TRACK ASSEMBLIES (PLATE 3 OF 3)

PLATE NO. F03 ALL | **SIMON AERIALS INC.** | REV. 26 AUG., 1994 THIS SHEET ONLY | **PART NO.**



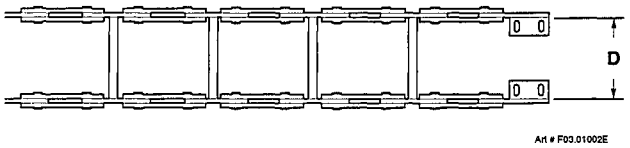
Triple Pushnut used for factory installation only.

Single Pushnut is available for service. See chart.



GLEASON

TYPE	LINK CONSTRUCTION
35E	
45E	



Art # F03.01002E

NOTE:

Three (3) foot repair sections of most styles are available; refer to the shaded sections of the chart. Three (3) foot repair sections of styles not shown are available upon request; please refer to the part number and type matching your requirements when ordering.

To select hose track that is not specifically identified in the chart:

(1) Determine the make, type and size of link construction.

(2) Refer to the parts list and match the type to the overall height (C), width (D) and number of links.

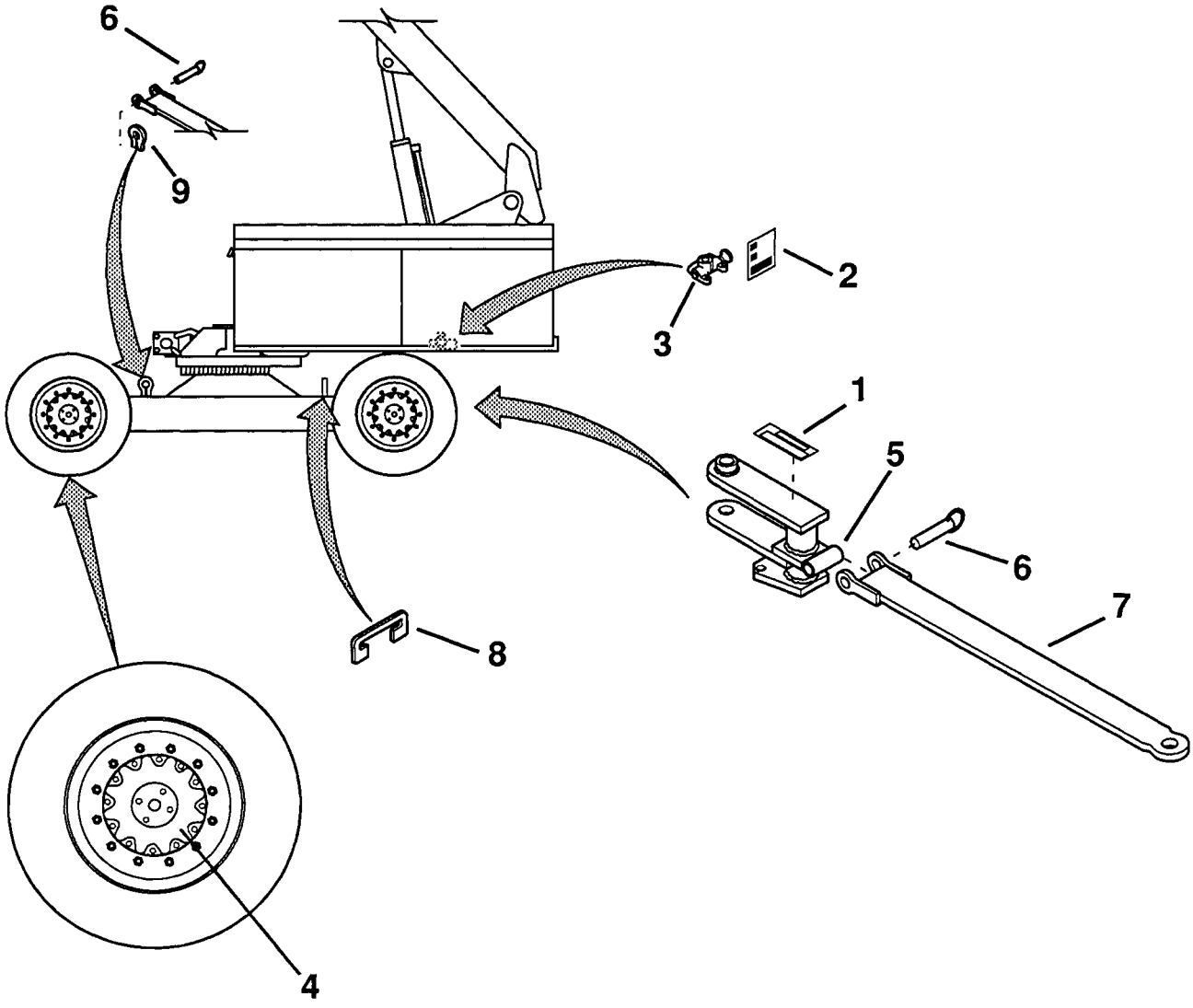
TITLE	HOSE TRACK ASSEMBLIES (PLATE 3 OF 3)		
SIMON AERIALS INC. REV. 17 FEB., 1994		PART NO.	PLATE NO. F03 ALL

PARTS LIST

ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
1	10-012700		DECAL (towing instructions)	2
2	10-107200		DECAL (pull out to disengage steer system)	2
3	01-010900		VALVE, SELECTOR (3/8"-18 NPT, 3000 lb/in^2 at 20 gpm)	1
4	02-000604		HUB QUICK DISCONNECT ASSEMBLY	2
5	2103600		TUBE, CENTER STEER ARM (weld to center steer arm)	1
6	2108970		PIN, TOW BAR	1
7	2098450		BAR, TOW	1
8	2014357		BRACKET, TOW BAR STORAGE (weld to undercarriage)	1
9	2014368		BRACKET, TOW BAR STORAGE (weld to undercarriage)	2
10	3510920		HOSE ASSEMBLY (not shown)	1
11	3516930		HOSE ASSEMBLY (not shown)	2

TITLE: TOWING EQUIPMENT (OPTIONAL)

PLATE NO. F05.01 | **SIMON AERIALS INC.** ORIGIN 07/12/90 | PART NO. 3519960



TITLE	TOWING EQUIPMENT (OPTIONAL)		
SIMON AERIALS INC. ORIGIN 07/12/90	PART NO. 3519960	PLATE NO. F05.01	

PARTS LIST

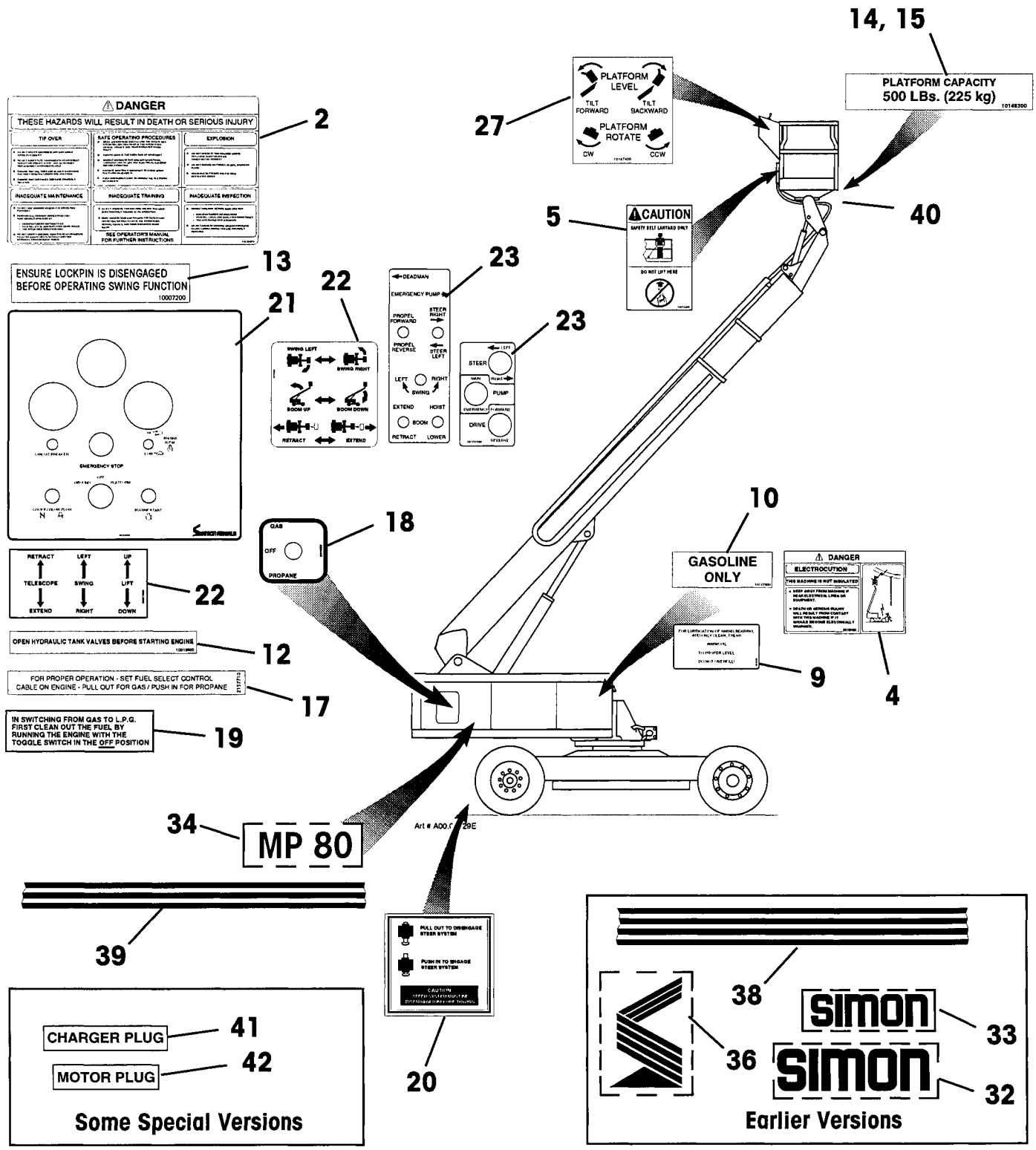
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			DECAL KIT, MP (Not available. Order decals individually)	
2	10-130600		DECAL, "DANGER" (Hazard listing, at Ground controls)	1
3	10-142100		DECAL, "DANGER" (Hazard listing, at Platform controls)	1
4	10-145100		DECAL, "DANGER" (Electrocution)	2
5	10-272600		DECAL, "CAUTION" ("Safety belt lanyard only ...")	2
6	10-094700		DECAL, "CAUTION, HOT WATER ..."	
			(for versions with liquid cooled engine)	1
7	10-094900		DECAL, "CAUTION, ROTATING FAN ..."	
			(for versions with liquid cooled engine)	1
8	10-025400		DECAL, ENGINE MAINTENANCE (decal is marked	
			"F3-6L912" and "2973582") (used with Deutz 912 engine)	1
9	10-135100		DECAL, "FOR LUBRICATION OF SWING BEARING ..."	
			(with optional oil bath swing bearing)	1
10			PLACARD, FUEL	1
	10-117900		"GASOLINE ONLY" (Black type on white)	
	10-151100		"DIESEL FUEL ONLY" (Black type on white)	
11	10-151300		PLACARD, "HYDRAULIC FLUID ONLY"	1
12	10-012600		DECAL, "OPEN HYDRAULIC TANK VALVES ..."	1
13	10-007200		DECAL, "ENSURE LOCK PIN IS DISENGAGED ..."	2
14			DECAL, PLATFORM CAPACITY	
			(4-1/2" [114 mm] wide, black letters on white background)	
			(2 used on earlier versions, 4 on later versions)	A.R.
	10-148300		"Platform capacity 500 LBs (225 kg)"	
	10-149000		"Platform capacity 550 LBs (250 kg)"	
	10-148500		"Platform capacity 650 LBs (300 kg)"	
	10-148700		"Platform capacity 750 LBs (340 kg)"	
	10-149400		"Platform capacity 800 LBs (360 kg)"	
	10-148900		"Platform capacity 1000 LBs (450 kg)"	
15			DECAL, PLATFORM CAPACITY	
			(18-1/4" [464 mm] wide, black cutout letters)	
			(Was used on some earlier versions)	1
	10-145300		"Platform capacity 500 LBs (225 kg)"	
	10-149700		"Platform capacity 550 LBs (250 kg)"	
	10-149800		"Platform capacity 650 LBs (300 kg)"	
	10-216000		"Platform capacity 750 LBs (340 kg)"	
	10-149900		"Platform capacity 800 LBs (360 kg)"	
	10-150000		"Platform capacity 1000 LBs (450 kg)"	
16	10-012900		DECAL, "FORWARD" WITH ARROW	2

TITLE

DECALS, MP 40 THRU MP 80

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
F99.	10	01	A	30 APR., 1997	

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
Fax 414-355-3172



Left side decals (typical version shown). Specific models or options may cause changes in decal location. See following page for illustration of Right side decals.

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
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TITLE					
DECALS, MP 40 THRU MP 80					
PART NO.	REV. A	DATED 30 APR., 1997	SECTION F99.	PLATE NO. 10	PAGE 01

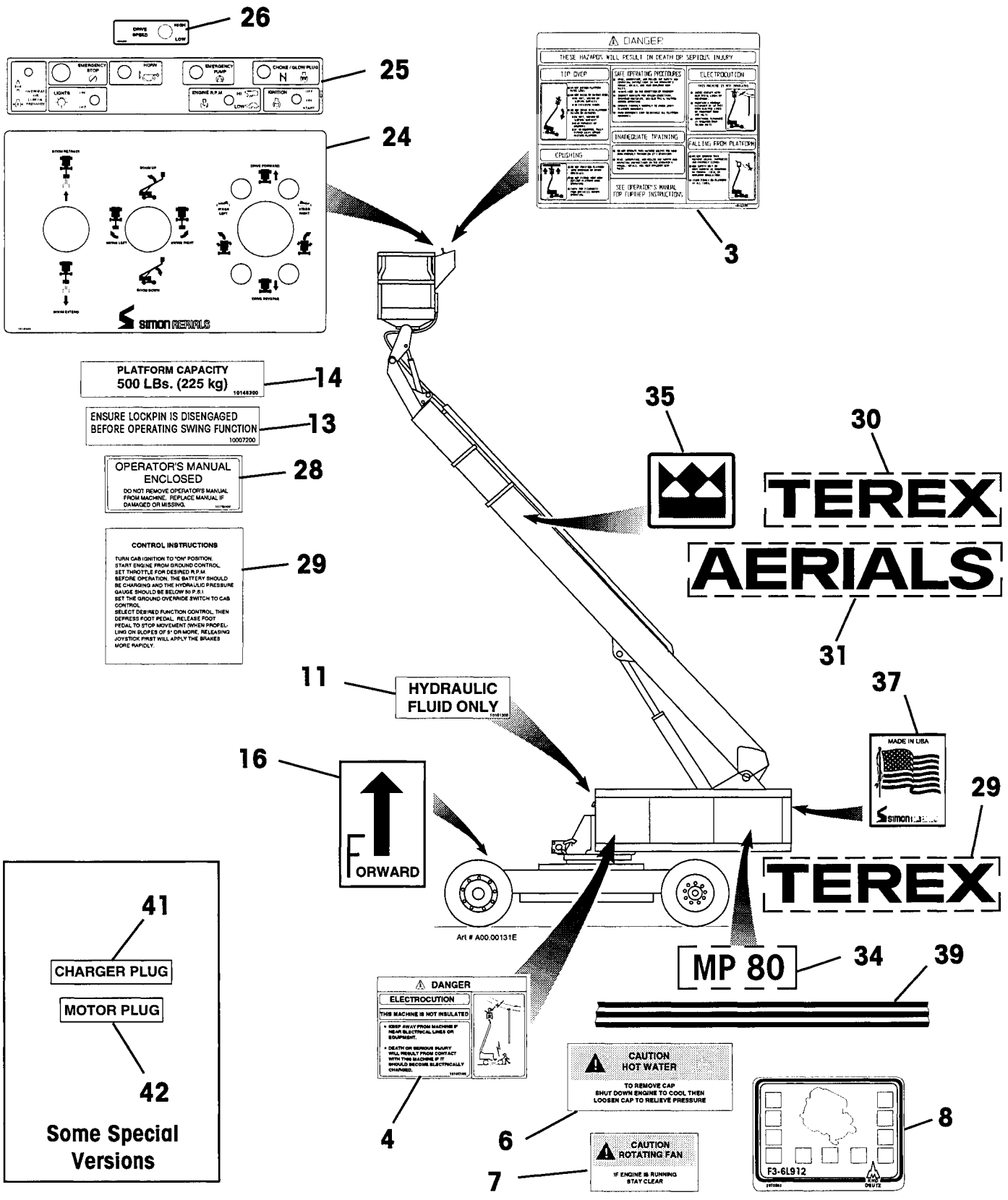
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
17	215 7710		DECAL, "FOR PROPER OPERATION - SET FUEL ..." (for some "Dual fuel" versions) (Decal was marked "215 7710" on some earlier versions)	1
18	10-016800		DECAL, "GAS/ OFF/ PROPANE" (for some "Dual fuel" versions)	1
19	10-025000		DECAL, "IN SWITCHING FROM GAS TO PROPANE ..." (for some "Dual fuel" versions)	1
20	10-107200		DECAL, "CAUTION" ("Steer system must be disengaged ...") (for versions with optional tow package)	1
21			DECAL, GROUND ELECTRICAL CONTROLS	1
	10-144300		Standard (with 3 Gauge cutouts, 6 Switch cutouts)	
	10-259200		Special Electric-powered (with 2 Gauge and 4 Switch cutouts)	
22			DECAL, GROUND CONTROL VALVES	1
	10-087400		With "Full Hydraulic" controls.	
	10-158600		With "Electro-Proportional" controls.	
23			PLACARD, REMOTE CONTROL PENDANT	1
	10-131500		Pendant has 3 toggle switches on front.	
	10-016400		Pendant has 5 toggle switches on front, 2 buttons on side. (modify to remove "High/ Low speed" switch hole at top)	
24			PLACARD, PLATFORM CONTROL VALVES	1
			With **"Electro-Proportional"** controls:	
	10-157200		Standard ("Oil pressure/ overheat" indicator at top left)	
	10-161800		Fiber optic controls ("Low voltage" indicator at top left)	
	10-151500		Insulated ("Low voltage" indicator at top left, "Emergency Stop" to right of "Off/ On/ Start" switch)	
	10-258900		Special Electric-powered ("Low voltage" indicator at top left, seven light switches across top, Sensor ring switch.)	
			With **"Full Hydraulic"** controls:	
	10-145000	shown	Standard (Lexan)	
	10-241100		Optional (Stencil-cut aluminum)	
	10-241400		SPACER (needed with aluminum control placard)	6
			With **"Hydraport"** controls:	
	10-065400		**Black lettering** on White. Two control levers.	
	10-225000		**White lettering** on Black. Three control levers.	
25			DECAL, PLATFORM ELECTRICAL CONTROLS	1
			With **"Full Hydraulic"** controls	
	10-222300		**Yellow** background around Emergency stop button	
	10-145900		**Red** background around Emergency stop button	
26	10-224800		DECAL, "DRIVE SPEED ..." (with optional 2 speed drive)	1
27			PLACARD, PLATFORM LEVEL AND ROTATE CONTROLS	1
	10-147400	shown	Standard (Lexan)	
	10-241200		Optional (Stencil-cut aluminum)	
	10-241400		SPACER (needed with aluminum control placard)	4

TITLE: DECALS, MP 40 THRU MP 80

SECTION F99. | PLATE NO. 10 | PAGE 02 | REV. A | DATED 30 APR., 1997 | PART NO.

Simon Aerials Inc.
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Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
24 Hr (Machine) 414-362-8280
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Right side decals (typical version shown). Specific models or options may cause changes in decal location. See first page for illustration of Left side decals.

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TITLE: DECALS, MP 40 THRU MP 80

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
	A	30 APR., 1997	F99.	10	02

PARTS LIST

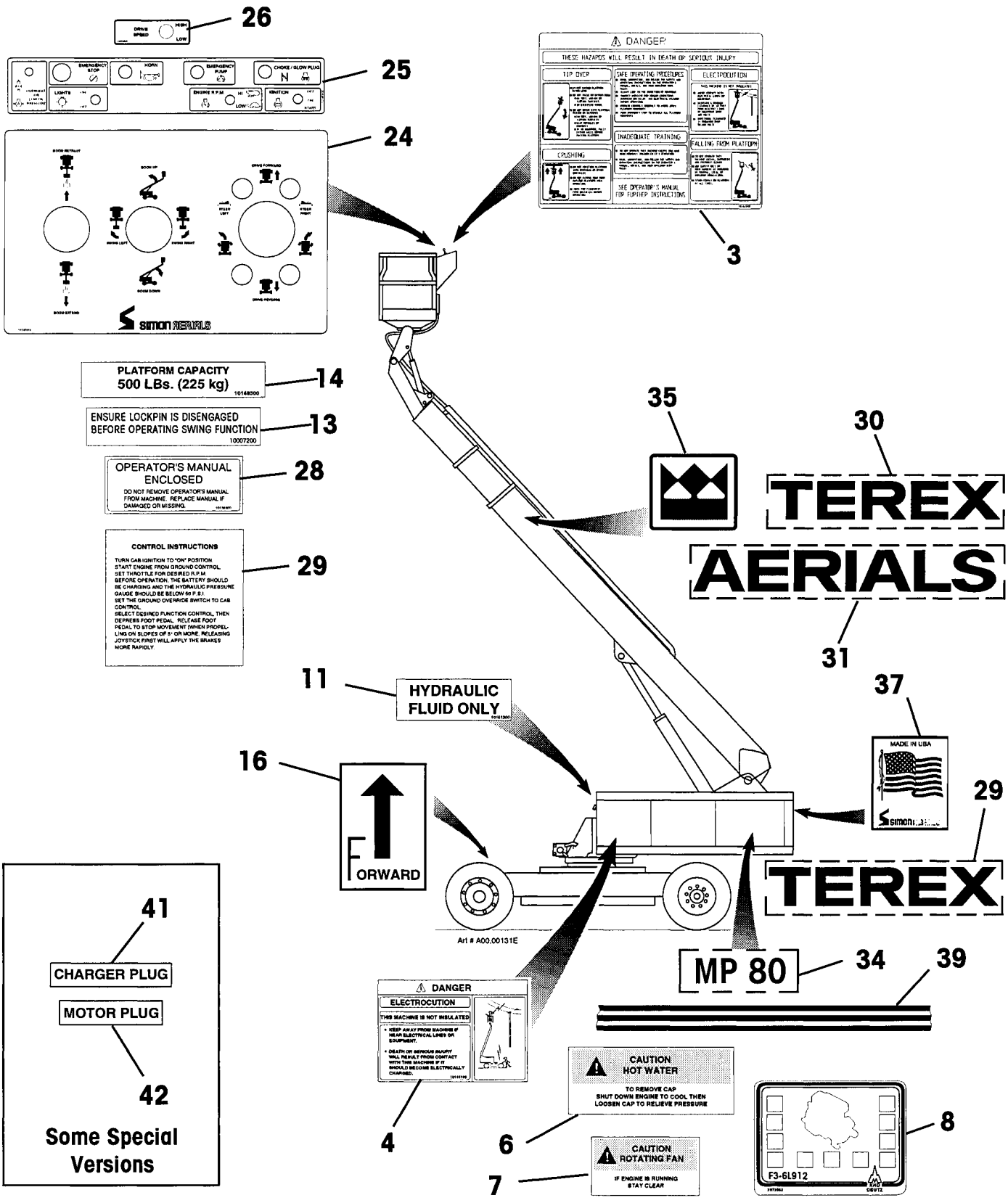
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
28	10-139800		DECAL, "OPERATOR'S MANUAL ENCLOSED"	1
29	10-012000		DECAL, "CONTROL INSTRUCTIONS ..." (with **"Hydraport"** controls)	1
30	10-284302		DECAL, "TEREX" NAME (Black, 5.12" [13 cm] high x 30.5" [77.5 cm] wide)	2
31	10-284402		DECAL, "AERIALS" NAME (Black, 5.12" [13 cm] high x 37.3" [94.8 cm] wide)	1
32	10-017100		DECAL, "SIMON" NAME (Black, 7" [178 mm] high) (earlier versions)	2
33	10-105900		DECAL, "SIMON" NAME (White, 5" [127 mm] high) (earlier versions)	1
34	10-131200		DECAL, MODEL "MP 40"	2
	10-133300		DECAL, MODEL "MPH 42"	2
	10-132000		DECAL, MODEL "MP 50"	2
	10-131100		DECAL, MODEL "MP 60"	2
	10-133400		DECAL, MODEL "MPH 60"	2
	10-132100		DECAL, MODEL "MP 70"	2
	10-132200		DECAL, MODEL "MP 80"	2
35	MK 181 976		DECAL, TEREX "CROWN" (Red/ Black, 9" [23 cm] wide x 7.9" [20 cm] high)	1
36	10-131900		DECAL, SIMON "S" LOGO (earlier versions) (Orange/ Gray, 9" [229 mm] wide x 13-1/2" [344 mm])	2
37	10-121600		DECAL, "MADE IN U.S.A."	1
38	10-126800		DECAL, STRIPE ([4] Orange stripes, 3-3/4" [95 mm] wide) (Bulk item, order as needed) (earlier versions)	A.R.
39	10-126900		DECAL, STRIPE ([3] Dk Gray stripes, 2-1/8" [54 mm] wide) (Bulk item, order as needed)	A.R.
40	10-031000		"SAF STEP" (Black) (4" [102 mm] wide x 60 ft [18.3 m] long roll)	A.R.
			The following items are used on some special versions:	
41	10-123000		DECAL, "CHARGER PLUG"	1
42	10-123100		DECAL, "MOTOR PLUG"	1

TITLE

DECALS, MP 40 THRU MP 80

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
F99.	10	03	A	30 APR., 1997	

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Right side decals (typical version shown). Specific models or options may cause changes in decal location. See first page for illustration of Left side decals.

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TITLE: DECALS, MP 40 THRU MP 80

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
	A	30 APR., 1997	F99.	10	03