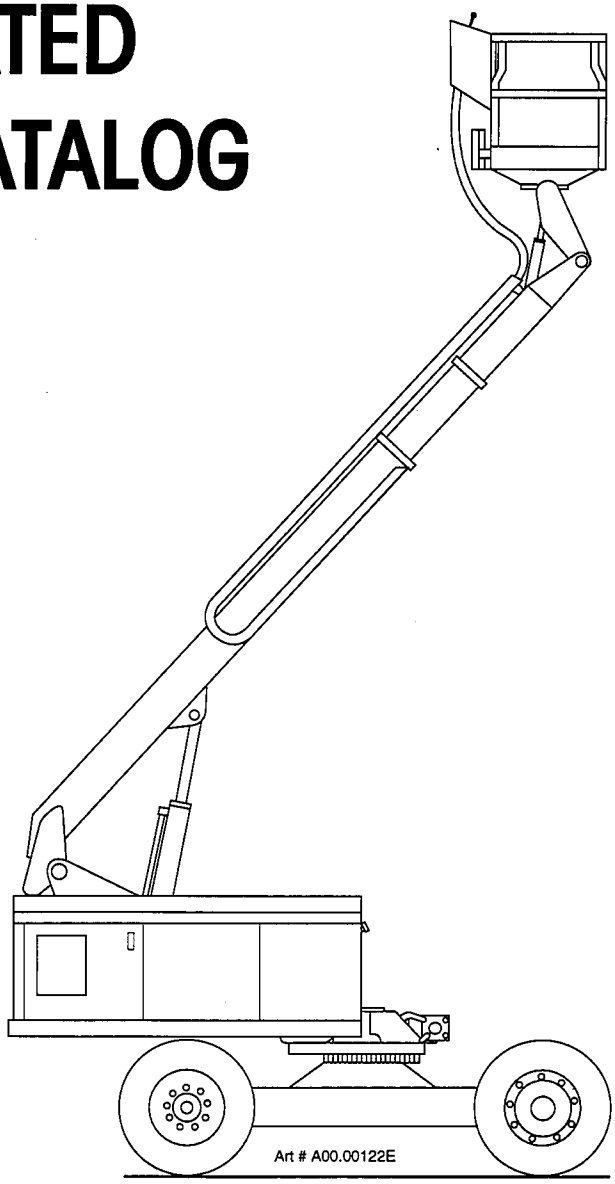
TEREX AERIALS
Milwaukee, Wisconsin

MODEL MP 60

ILLUSTRATED PARTS CATALOG

FOR MACHINE
SERIAL NUMBER

_____



Part No. 89-160005

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.

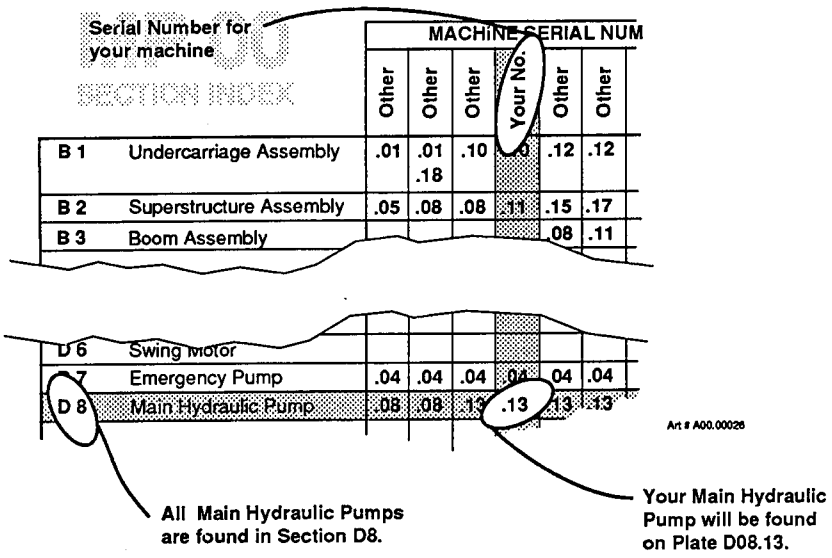
The Parts Catalog is divided into "Sections", numbered from B 1 through F 99. Each section contains the individual parts that make up a major component, assembly or item.

- 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.

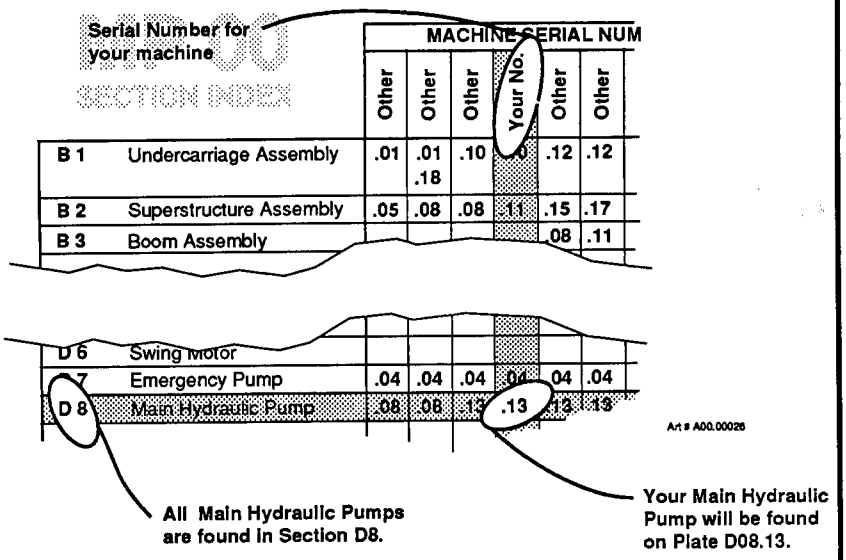
When selecting parts for a specific machine, be sure to verify the machine model number, and serial number or date code (found on the data plate).



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.

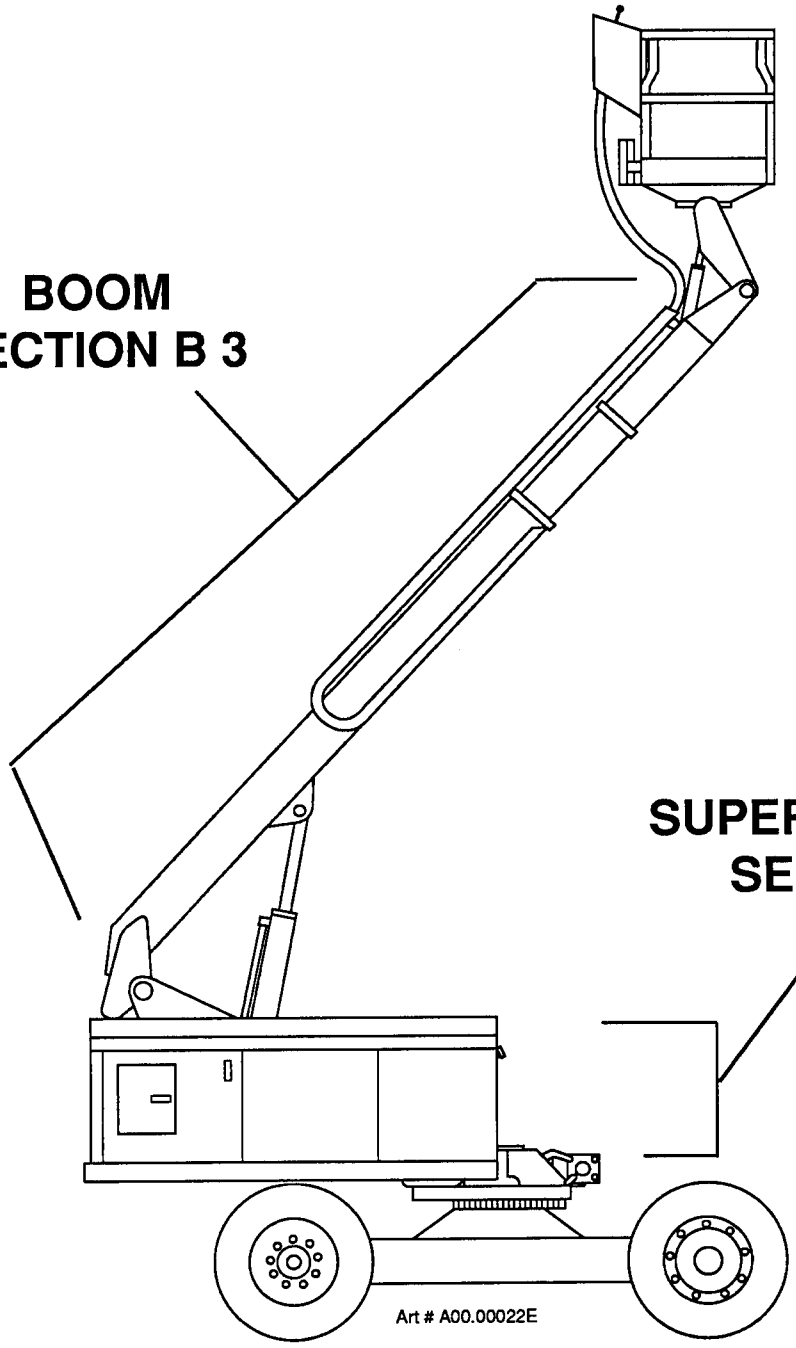
If a part number is not listed for a selected item, please provide this additional information:

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.



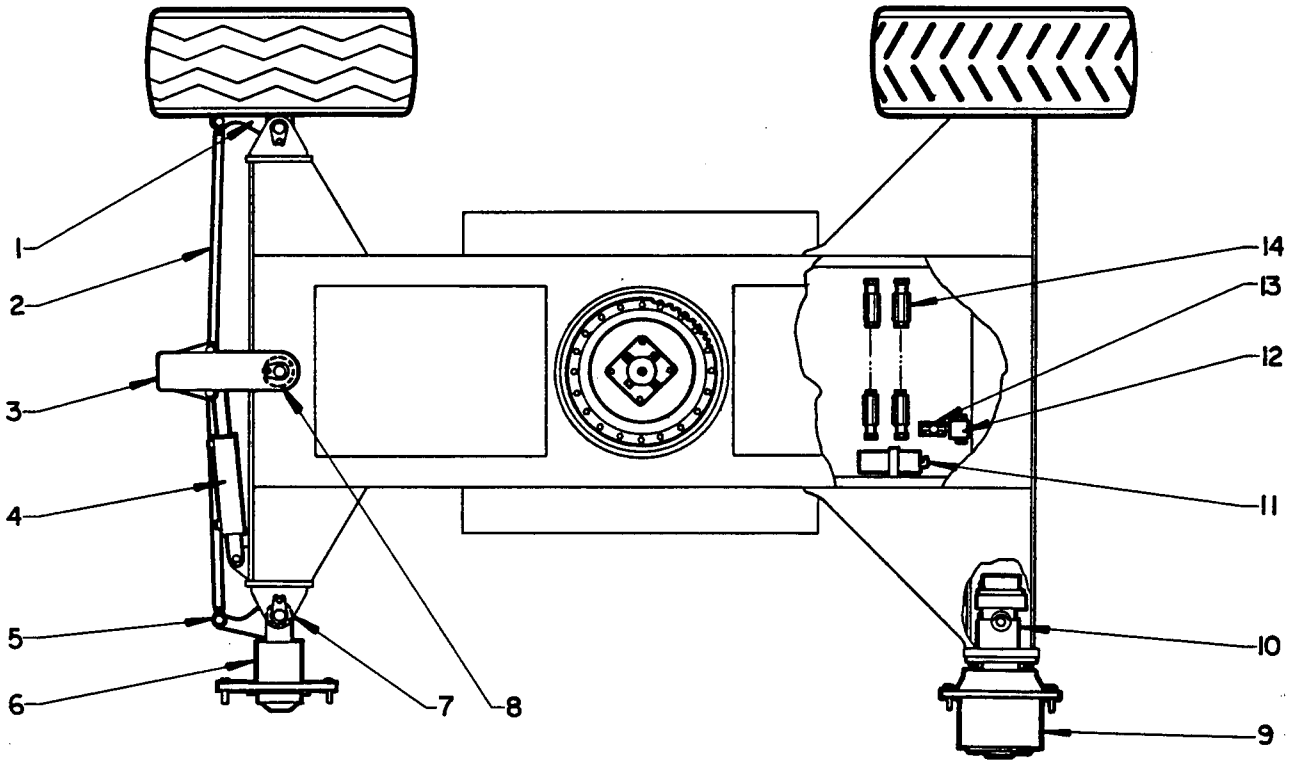
TITLE	PRIMARY MACHINE COMPONENT GROUPS	
SIMON AERIALS INC.	PART NO.	PLATE NO.

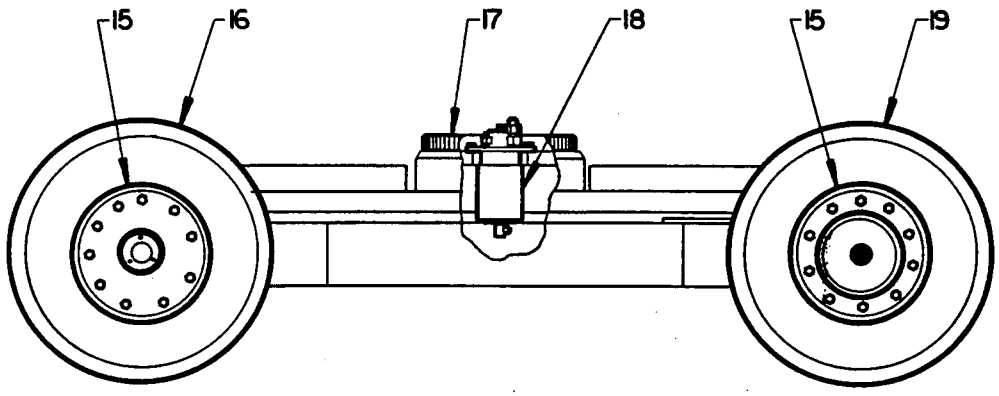
PARTS LIST

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	SEE INDEX	D1	STEER CYLINDER	1
5	08-007100		TIE ROD END	4
6	SEA-206183-4	C1.6	L.H. SPINDLE ASSEMBLY	1
7	08-004200		THRUST WASHER	2
8	08-002000		FLANGE BUSHING	2
9	SEE INDEX	F1	TORQUE HUB	2
10	SEE INDEX	D3	DRIVE MOTOR/BRAKE	2
11	01-001500	D4.1	ACCUMULATOR	1
12	01-001400		SHUTTLE VALVE	1
13	01-000500		NEEDLE VALVE	1
14	01-036100		FLOW CONTROL VALVE, 17 GPM	4
15	SDW-202256-7		RIM	4
16	02-001500		STEER TIRE	2
17	08-000200		SWING BEARING	1
18	SEE INDEX	D2	HYDRAULIC SWIVEL	1
19	02-001400		DRIVE TIRE	2

DESCRIPTION	PART NO.
UNDERCARRIAGE ASSEMBLY	CAA-207258-0

B1.6





NOTE: SEE PAGE B1.10 FOR 4WD COMPONENTS

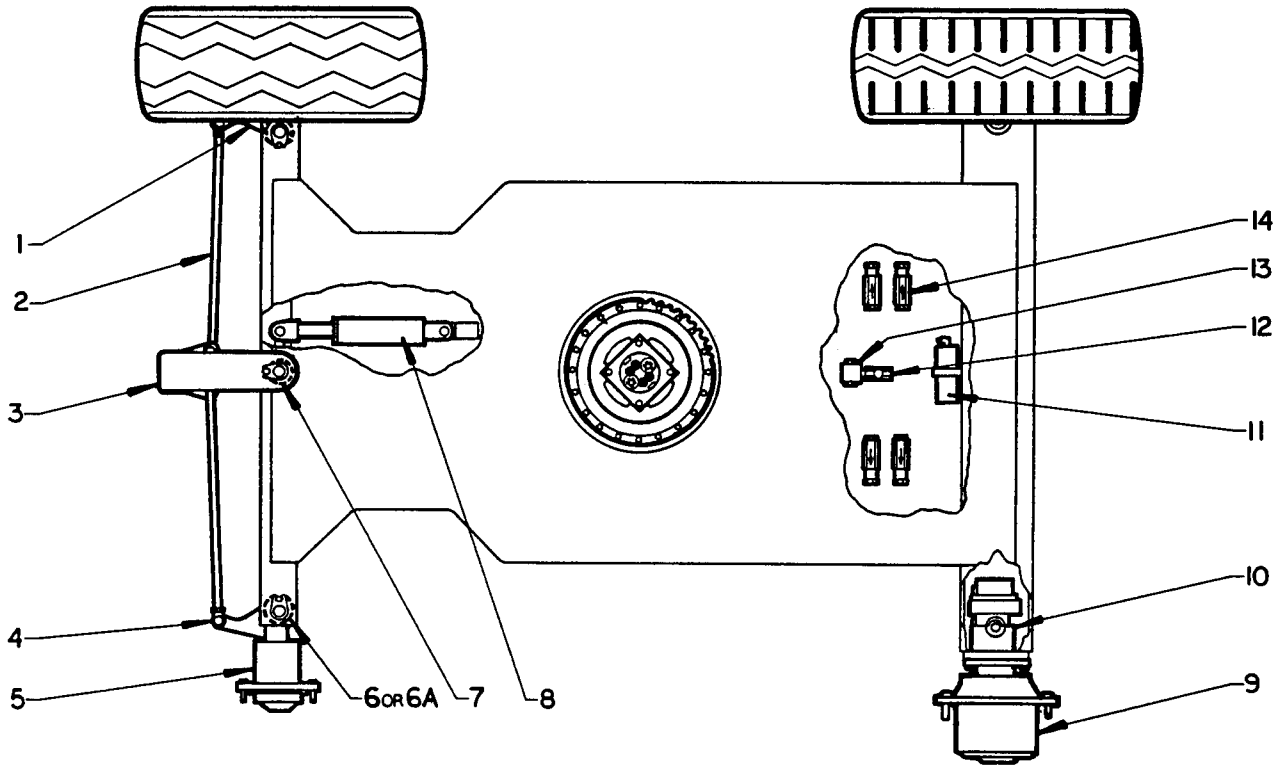
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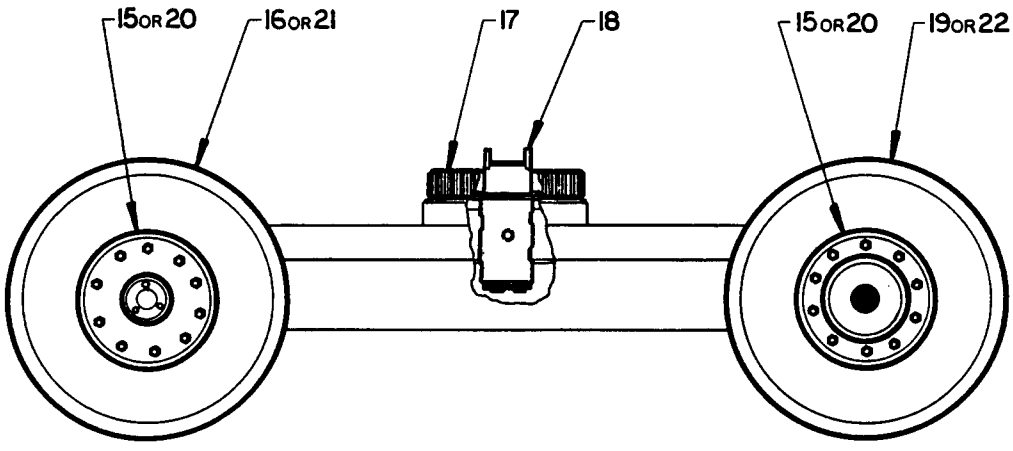
DESCRIPTION	PART NO.
UNDERCARRIAGE ASSEMBLY	CAA-207258-0

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

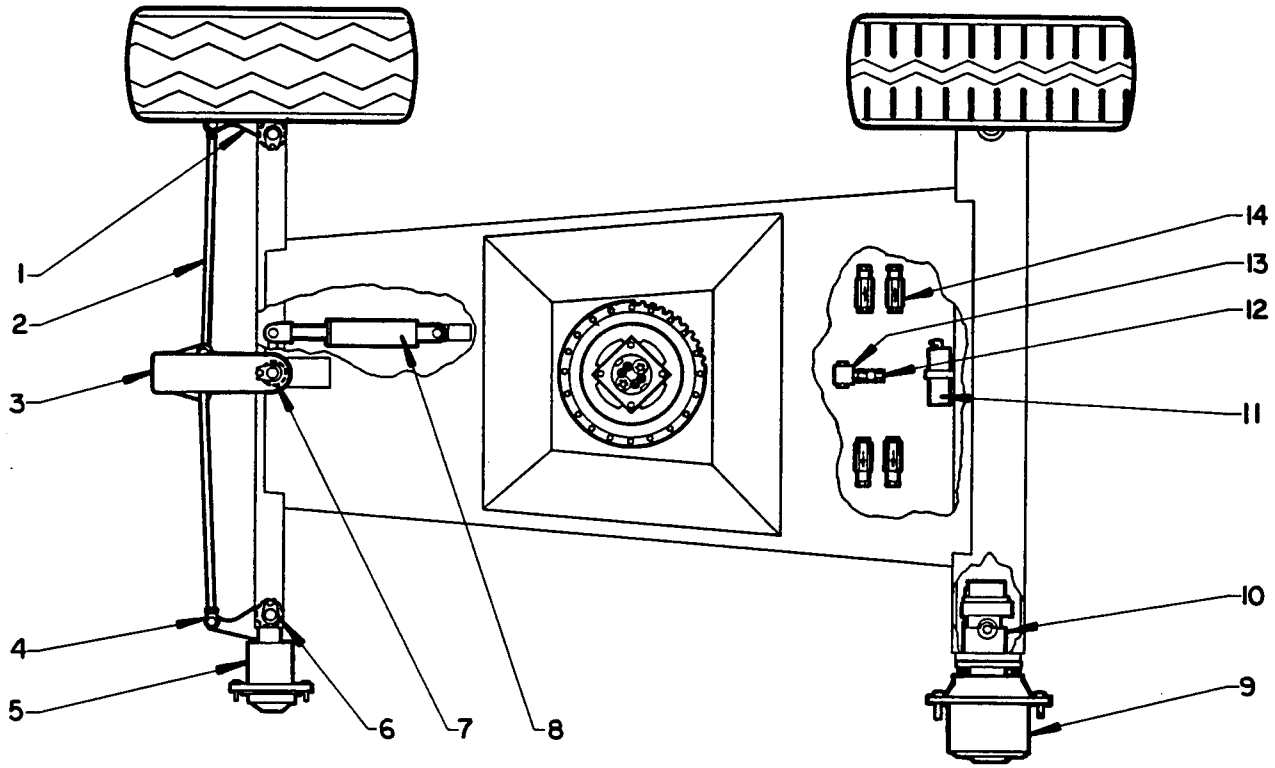
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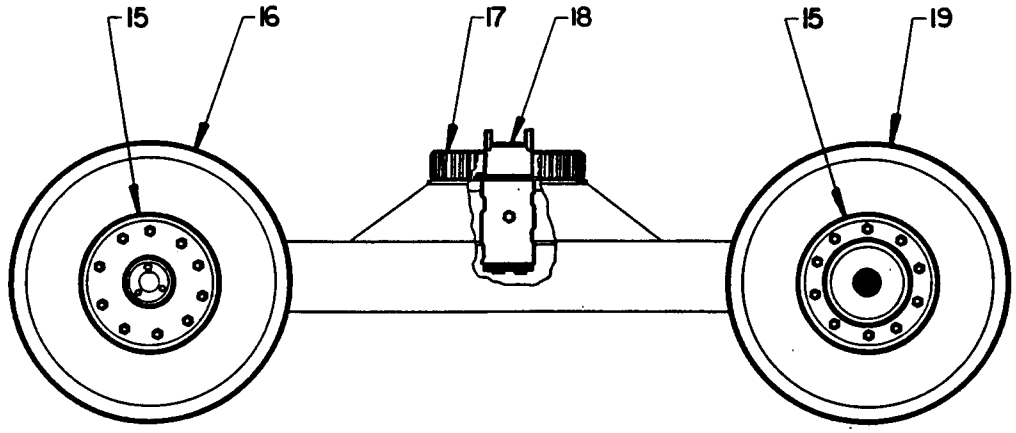
DESCRIPTION	PART NO.
UNDERCARRIAGE ASSEMBLY	CAA-207259-7

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

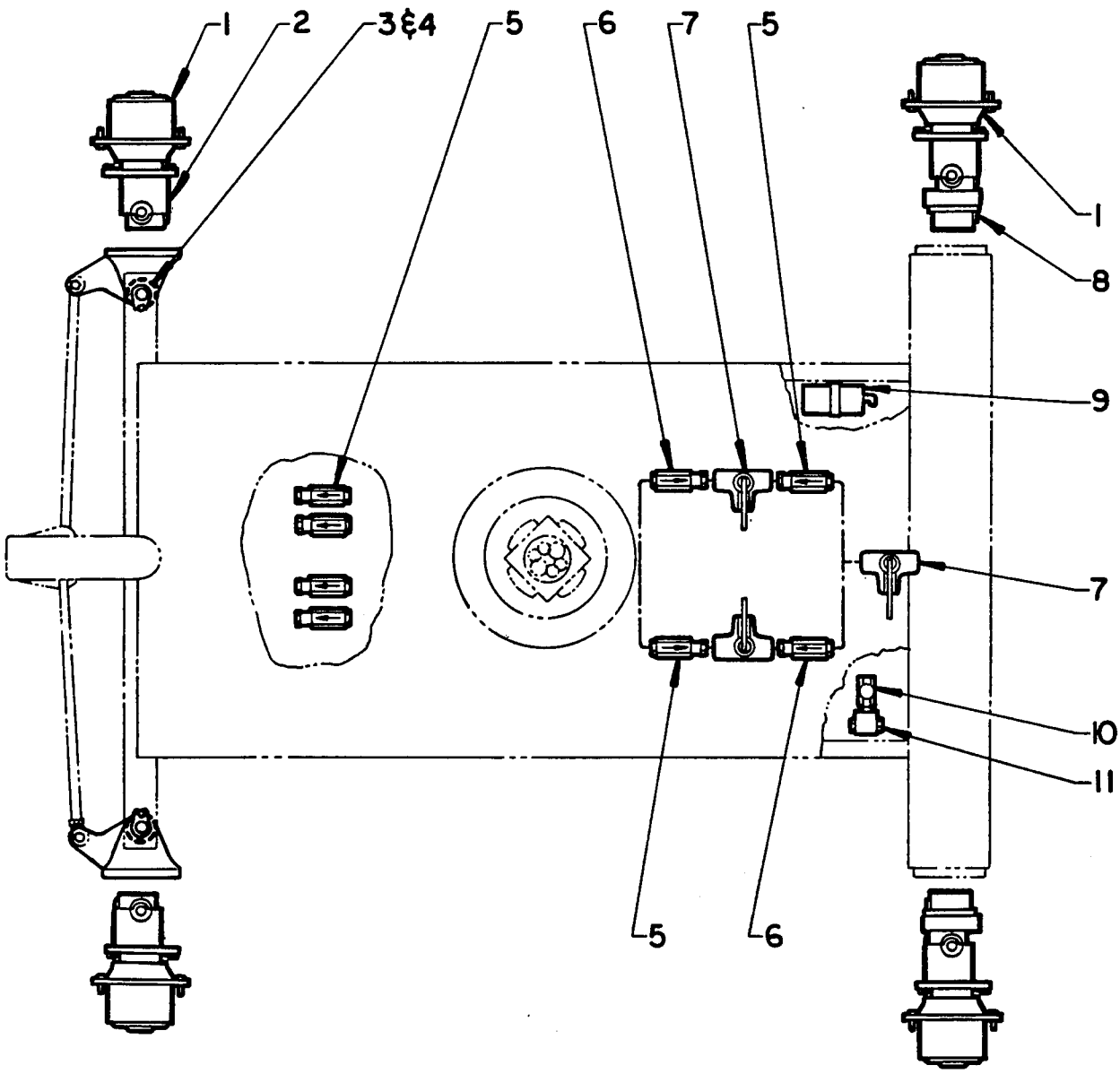
0285

DESCRIPTION	PART NO.
UNDERCARRIAGE ASSEMBLY	CAA-207260-5

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SEE INDEX	F1	TORQUE HUB	4
2	SEE INDEX	D3	DRIVE MOTOR	2
3	08-004200		THRUST WASHER	2
4	SAD-201073-5		SLEEVE BEARING	4
5	01-003500		FLOW CONTROL VALVE, 5 GPM	8
6	01-036500		FLOW CONTROL VALVE, 12 GPM	4
7	01-001700		SELECTOR VALVE	3
8	SEE INDEX	D3	DRIVE MOTOR/BRAKE	2
9	01-001500	D4.1	ACCUMULATOR	1
10	01-000500		NEEDLE VALVE	1
11	01-001400		SHUTTLE VALVE	1

DESCRIPTION	PART NO.
4WD ASSEMBLY	CAA-208471-0



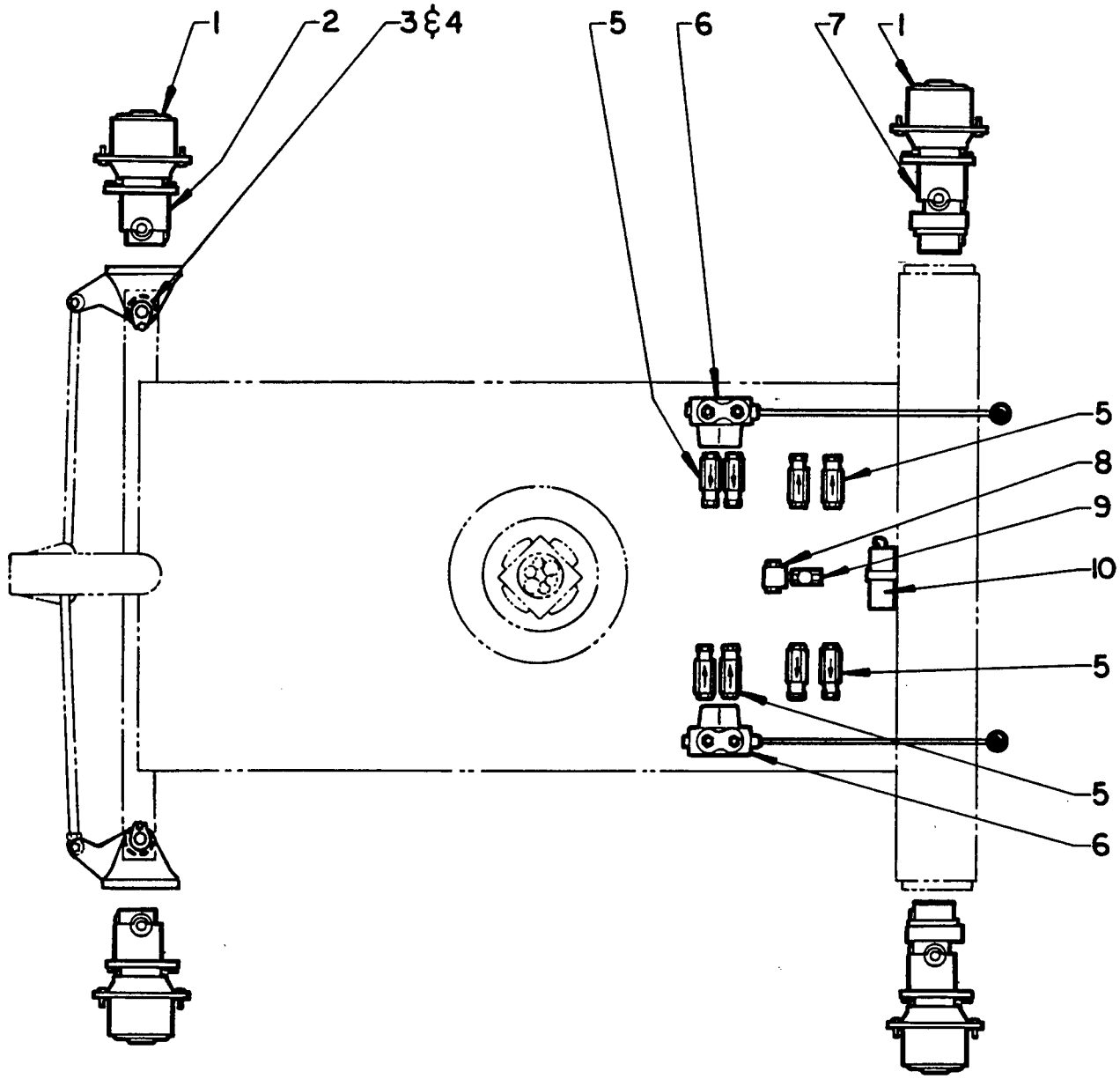
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DESCRIPTION	PART NO.
4WD ASSEMBLY	CAA-208471-0

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SEE INDEX	F1	TORQUE HUB	4
2	SEE INDEX	D3	DRIVE MOTOR	2
3	08-004200		THRUST WASHER	2
4	SAD-201073-5		SLEEVE BEARING	4
5	01-006700		FLOW CONTROL VALVE, 6 GPM	8
6	01-004500		SELECTOR VALVE	2
7	SEE INDEX	D3	DRIVE MOTOR/BRAKE	2
8	01-001400		SHUTTLE VALVE	1
9	01-000500		NEEDLE VALVE	1
10	01-001500	D4.1	ACCUMULATOR	1

DESCRIPTION	PART NO.
4WD ASSEMBLY	CAA-208472-7



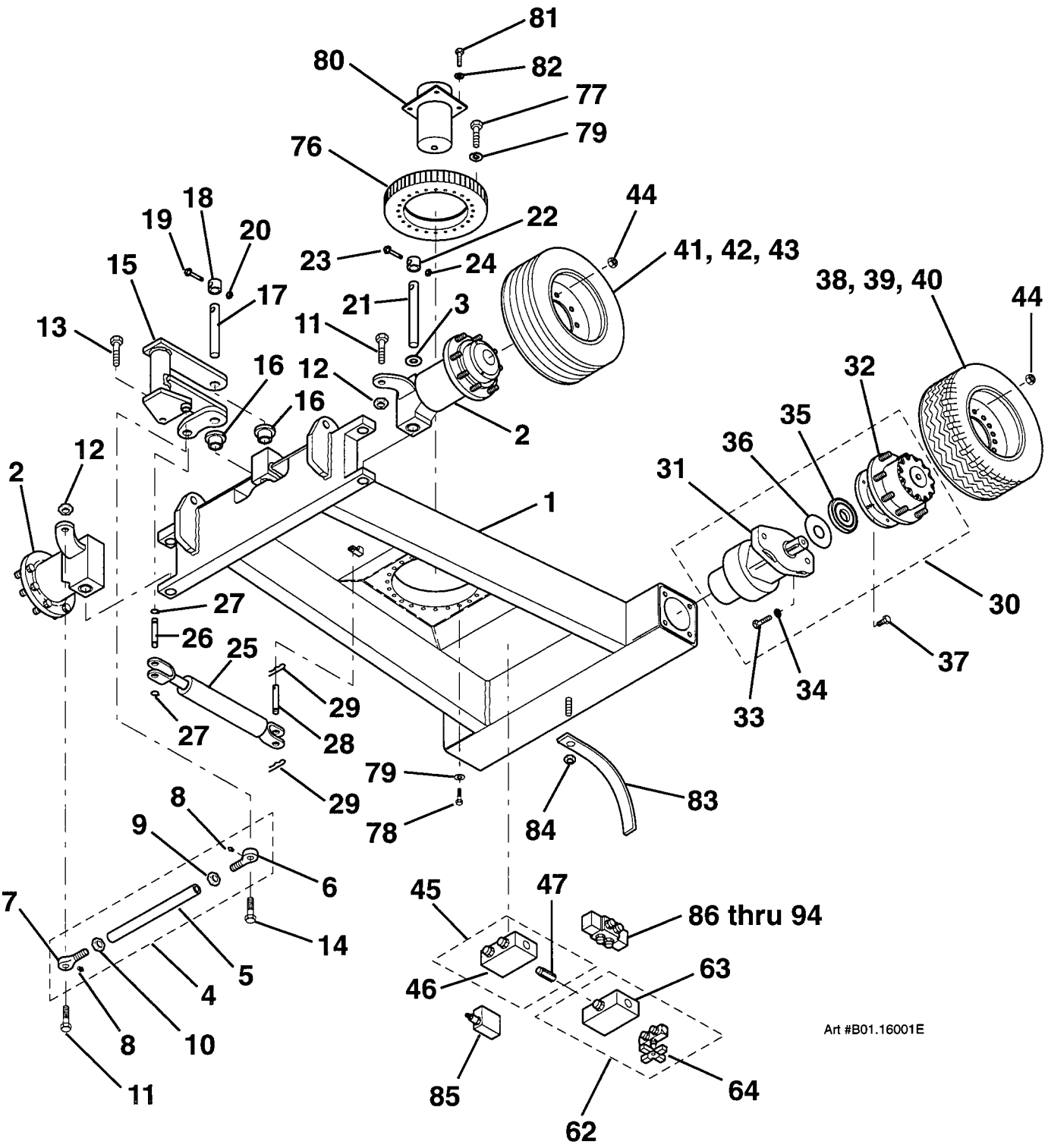
0385

DESCRIPTION	PART NO.
4WD ASSEMBLY	CAA-208472-7

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			This undercarriage for medium reach, std. capacity MP series. For 4WD components, see plate B01.18 (for 2WD/ 4WD) or B01.27 (for "Full Time" 4WD).	
1	- - -		UNDERCARRIAGE WELDMENT (for two-wheel drive)	1
2	350 2495	C01.14	SPINDLE ASSEMBLY (Right hand) (for two-wheel drive)	1
	350 3089	C01.15	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 1980		TIE ROD ASSEMBLY (32-1/8" long)	2
	351 4070		TIE ROD ASSEMBLY (Special, 28-1/2" long, for MP 60 S/N. ACA 001015)	2
5	212 3220		TIE ROD (32-1/8" long)	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)	1
14	07-004655		CAP SCREW, HEX HEAD (3/4"-16 x 3-1/4", Grade 8)	1
15			ARM, CENTER STEER (without tow package) **(Note:** with tow package, also order part #210 3610. Welding required.)	1
	200 4208		Standard (Steer cylinder pin is 1" dia., with **no** grease ftg.)	
	235 1130		Special (Steer cylinder pin is 1-1/4" dia., **with** grease ftg.)	
16	08-002000		BEARING, FLANGED (1-1/2" I.D.,1-3/4"-2" O.D.,1-1/2" long)	2
17			PIN, STEER ARM (1-1/2" dia. x 11-3/4" long)	1
	201 7040		Type 1 (Machines prior to 5/86. No grease fitting.)	
	210 5980		Type 2 (Machines after 5/86 thru 8/91.)	
	218 6910		Type 3 (After 8/91. For use with grease fitting. Obsolete.)	
	231 9640		Type 4 (Current style. Replaces Type 3)	
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

TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 1 OF 5)		
PLATE NO. B01.16	**SIMON AERIALS INC.**	REV. 11 JUN., 1996	**PART NO.**



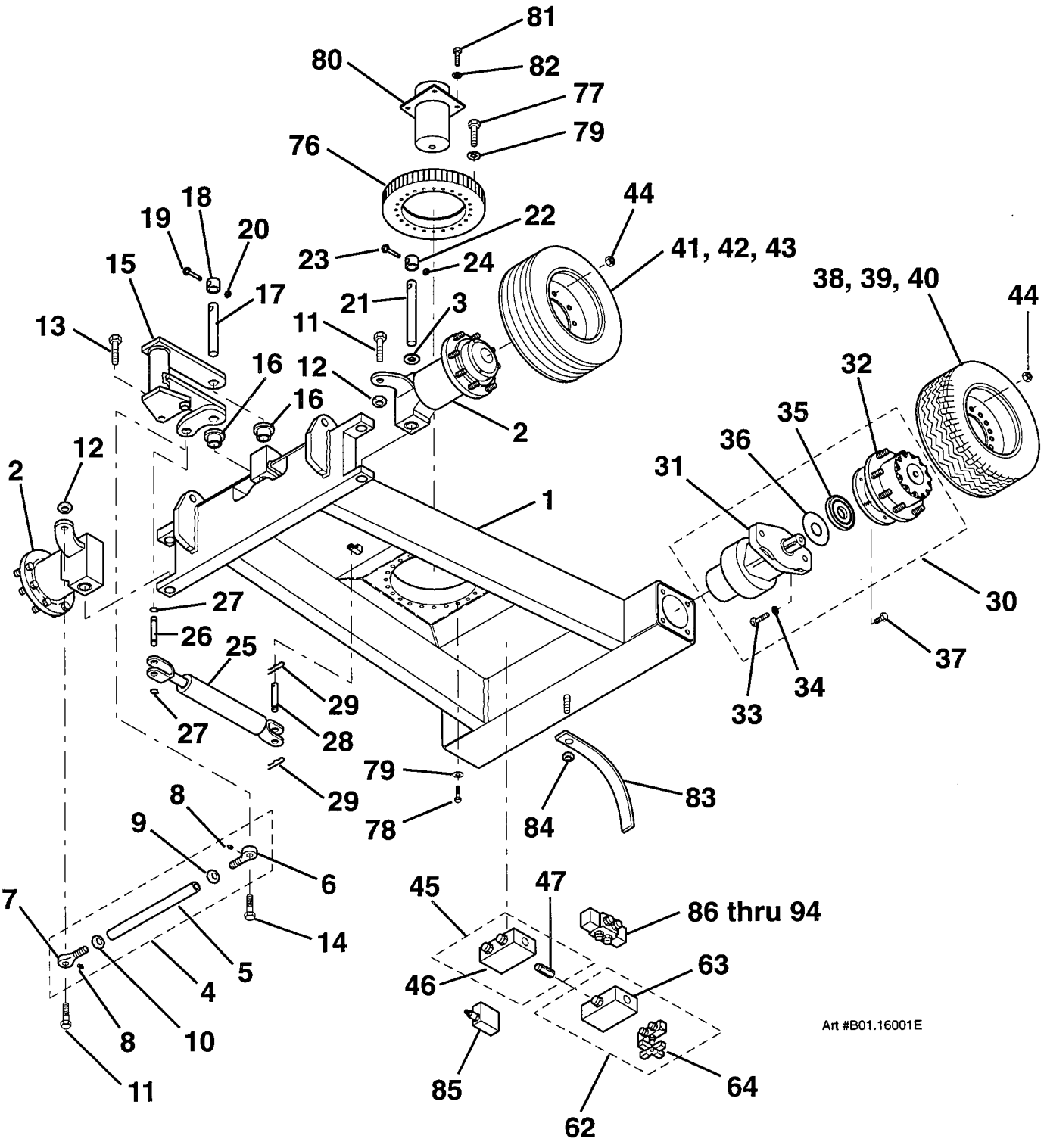
TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 1 OF 5)		
SIMON AERIALS INC. REV. 11 JUN., 1996		PART NO.	PLATE NO. B01.16

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
21			PIN, SPINDLE (1-1/2" dia. x 11-3/4" long)	2
	210 5980		Type 1	
	231 9630		Type 2 (Current style. Replaces Type 1)	
22	210 6320		COLLAR, LOCK (1-1/2") (For earlier versions. Later versions are welded to front axle at spindle pin holes.)	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	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	1
36	217 6980		SPACER, MOTOR TO TORQUE HUB	1
37	07-004087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 8)	12

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

PLATE NO. B01.16 | **SIMON AERIALS INC.** REV. 11 JUN., 1996 | PART NO.



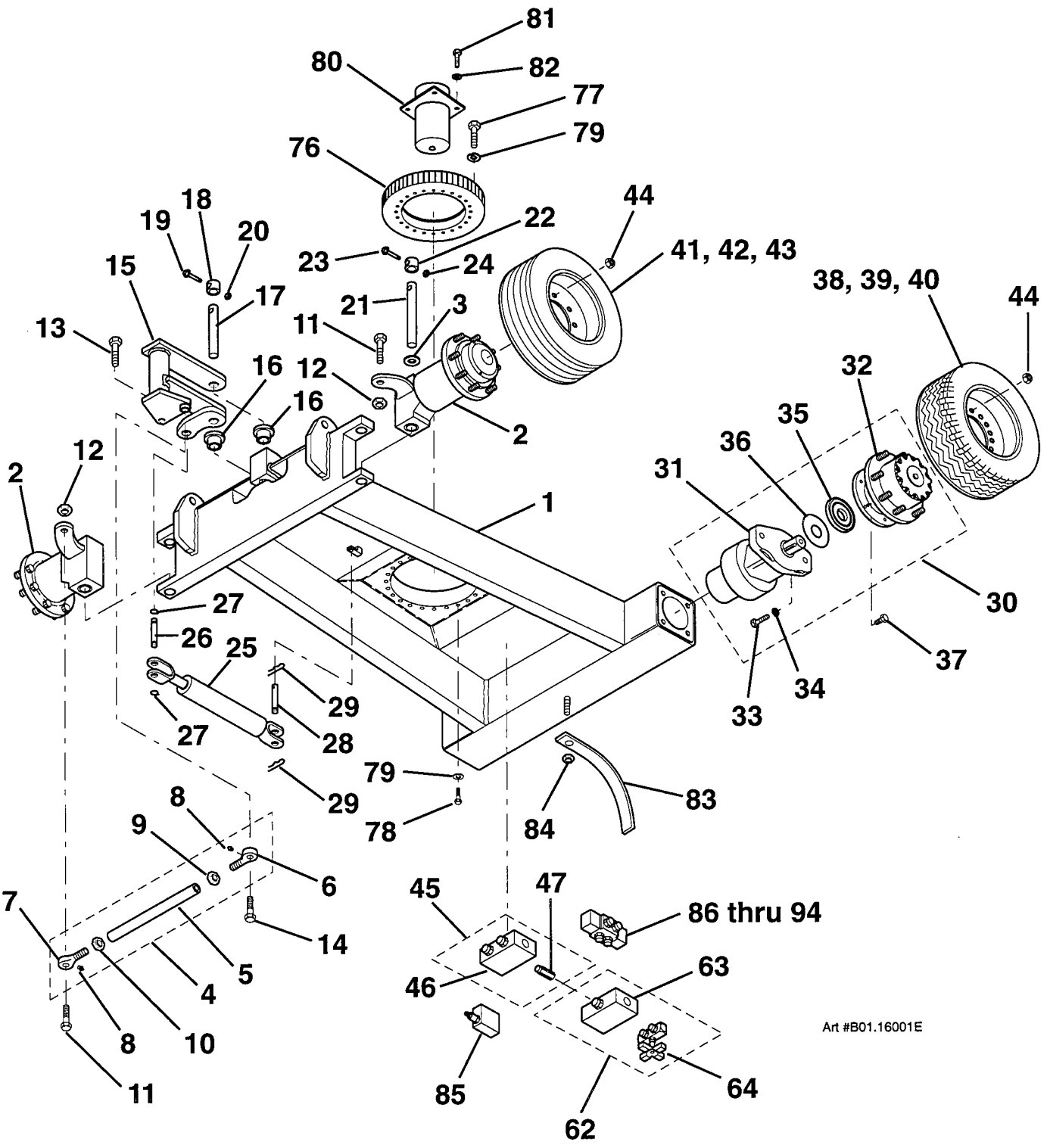
TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 2 OF 5)		
SIMON AERIALS INC. REV. 11 JUN., 1996		PART NO.	PLATE NO. B01.16

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	3515620		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2
	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
			Or . . .	
38	3503104		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2
	3508460		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
			Or . . .	
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 NHS "**Super Agri Loader**", 14 Ply rating)	1
40	02-008400		WHEEL ASSEMBLY (19.5" x 12-1/4")	1
			Or . . .	
38	- - -		TIRE AND WHEEL ASSEMBLY, SOLID	2
39	02-044000		TIRE (9.00 x 20 "**Soft Shoe**", solid rubber, lugged)	1
40	02-043900		WHEEL (20" [51 cm] dia. x 8" [20 cm], demountable rim)	1
41	3515630		TIRE AND WHEEL ASSEMBLY, STEER (Liquid filled)	2
	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
			Or . . .	
41	3510016		TIRE AND WHEEL ASSEMBLY, STEER (Liquid filled)	2
	3508534		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
			Or . . .	
41	- - -		TIRE AND WHEEL ASSEMBLY, SOLID	2
42	02-044000		TIRE (9.00 x 20 "**Soft Shoe**", solid rubber, lugged)	1
43	02-043900		WHEEL (20" [51 cm] dia. x 8" [20 cm], demountable rim)	1
43a	02-047100		INNER TUBE (for use with liquid filled tire)	A.R.
44	07-058123		NUT, FLANGED (Self locking) (3/4"-16, Grade 5)	40

TITLE UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 3 OF 5)

PLATE NO. B01.16 | **SIMON AERIALS INC.** REV. 11 JUN., 1996 | **PART NO.**



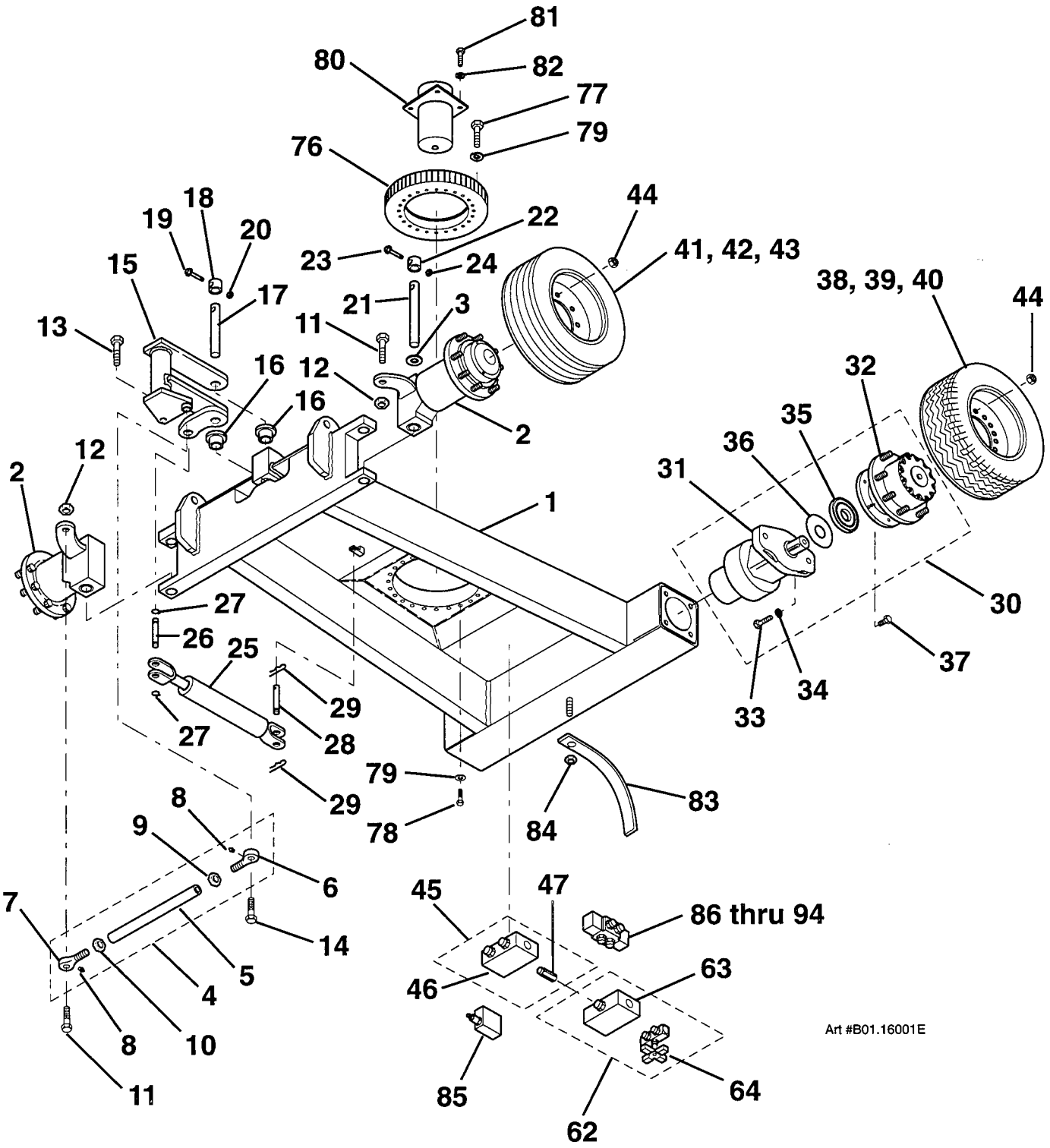
TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 3 OF 5)		
SIMON AERIALS INC.	REV. 11 JUN., 1996	PART NO.	PLATE NO. B01.16

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
45			VALVE ASSEMBLY, MOTION CONTROL	1
46	01-013100		VALVE, MOTION CONTROL (10:1 pilot ratio)	1
47	01-018900		VALVE, FLOW CONTROL (Needle valve) (#6 SAE Ports)	1
48	06-021300		TEE, UNION (12 JTX-S)	1
49	06-039800		CONNECTOR, STRAIGHT THREAD (6 F50X-S)	1
50	06-041100		CONNECTOR, STRAIGHT THREAD (12-16 F50X-S)	2
51	06-044500		ELBOW, STRAIGHT THREAD (6-4 C50X-S)	1
52	06-045600		ELBOW, STRAIGHT THREAD (12-16 C50X-S)	1
53	06-050000		TEE, STRAIGHT THREAD (6 S50X-S)	1
54	350 7665		TUBE ASSEMBLY	1
55			TUBE	1
56	06-057800		NUT, TUBE (12 BTX-S)	2
57	06-059300		SLEEVE (12 TX-S)	2
58	350 7867		TUBE ASSEMBLY	1
59			TUBE	1
60	06-057500		NUT, TUBE (6 BTX-S)	2
61	06-059000		SLEEVE (6 TX-S)	2
			For 4WD components, see plate B01.18 (for 2WD/ 4WD) or B01.27 (for "Full Time" 4WD).	
62			VALVE ASSEMBLY, FLOW DIVIDER	1
63	01-018300		VALVE, FLOW DIVIDER	1
64	01-034800		VALVE, GLOBE (1/4" NPT Female thread, both ends)	1
65	06-002000		CONNECTOR, MALE (12-16 FTX-S)	1
66	06-003800		ELBOW, MALE (6 CTX-S)	2
67	06-012300		RUN TEE, MALE (12 RTX-S)	2
68	06-051800		ELBOW, SWIVEL NUT (12 C6X-S)	1
69	06-054800		RUN TEE, SWIVEL NUT (12 R6X-S)	1
70	06-057800		NUT, TUBE (12 BTX-S)	2
71	06-060800		REDUCER, TUBE END (12-6 TRTX-S)	2
72	350 7654		TUBE ASSEMBLY	2
73			TUBE	1
74	06-057800		NUT, TUBE (12 BTX-S)	2
75	06-059300		SLEEVE (12 TX-S)	2

TITLE: UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 4 OF 5)

PLATE NO. B01.16 | **SIMON AERIALS INC.** REV. 11 JUN., 1996 | PART NO.

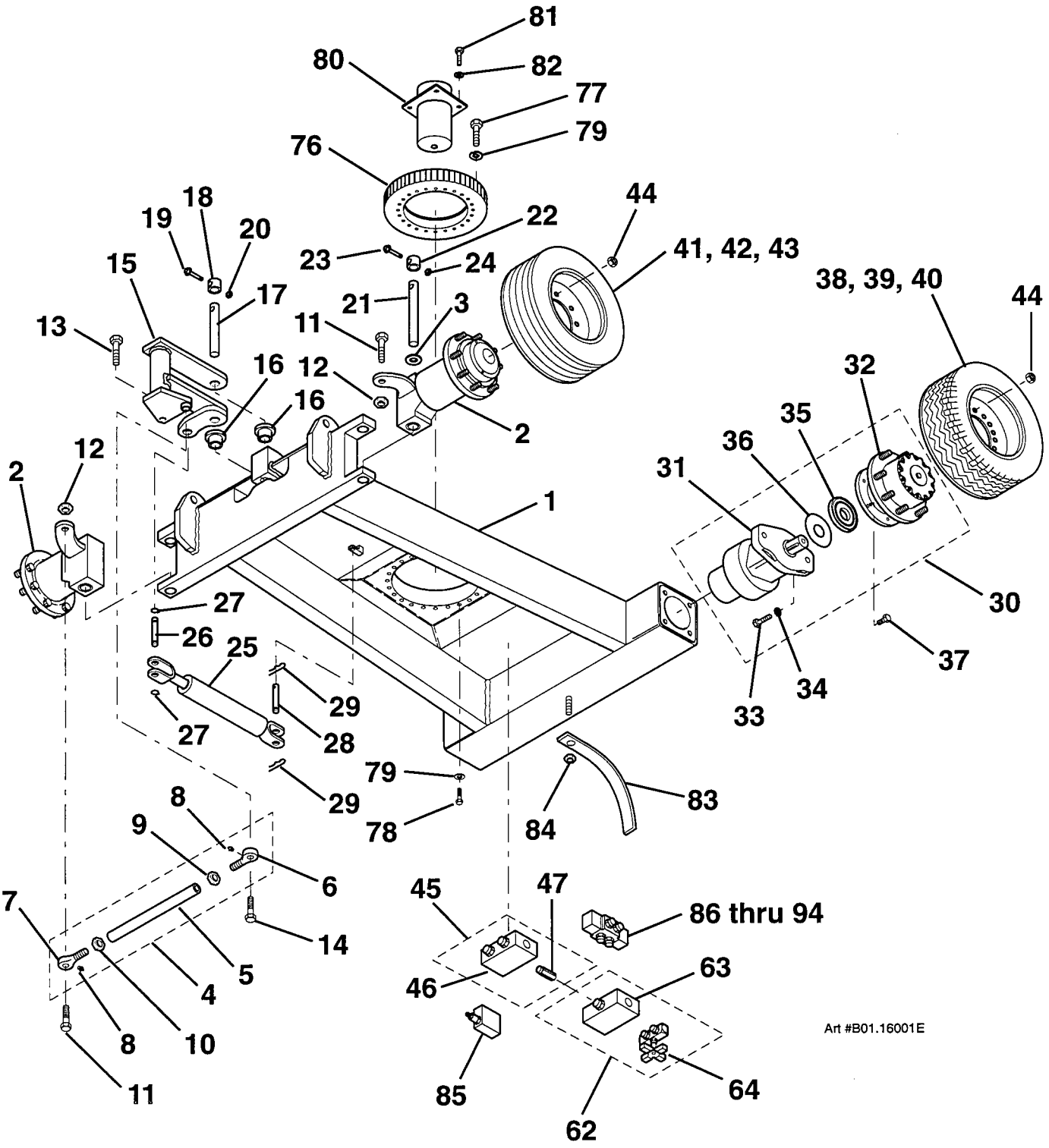


TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 4 OF 5)		
SIMON AERIALS INC. REV. 11 JUN., 1996		PART NO.	PLATE NO. B01.16

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
76	08-057100		SWING BEARING	1
77	07-004655		CAP SCREW, HEX HEAD (3/4"-16 x 3-1/4", Grade 8)	18
78	07-00 4152		CAP SCREW, HEX HEAD (3/4"-16 x 2-3/4", Grade 8)	23
79	07-061022		WASHER, FLAT (3/4" SAE)	41
80	See index	D02.--	SWIVEL, HYDRAULIC	1
80a	06-071400		REDUCER, PIPE THREAD (3/4 x 1/2 PTR-S)	1
81	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	4
82	07-065018		WASHER, HELICAL LOCK (1/2")	4
83	03-472100		STRAP, GROUNDING (option)	1
84	07-058400		NUT, LUG (1/2"-13, Grade 8)	1
85	01-011400		VALVE, CARTRIDGE RELIEF	1
			Items below used on **TWO WHEEL DRIVE** units with **TWO-SPEED DRIVE** option:	
86			VALVE ASSEMBLY, SELECTOR	1
87			VALVE, HI/ LOW SPEED DRIVE (Pilot operated)	1
	01-062000		First type (Obsolete. Use 01-230300)	
	01-230300		Current type	
88	01-062001		SEAL KIT, DRIVE VALVE (for first type 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)	2
92	06-056300		TEE, SWIVEL (12 S6X-S)	1
93	06-057800		NUT, TUBE (12 BTX-S)	1
94	06-060800		REDUCER, TUBE END (12-6 TRTX-S)	1

TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 5 OF 5)		
PLATE NO. B01.16	**SIMON AERIALS INC.**	REV. 11 JUN., 1996	PART NO.



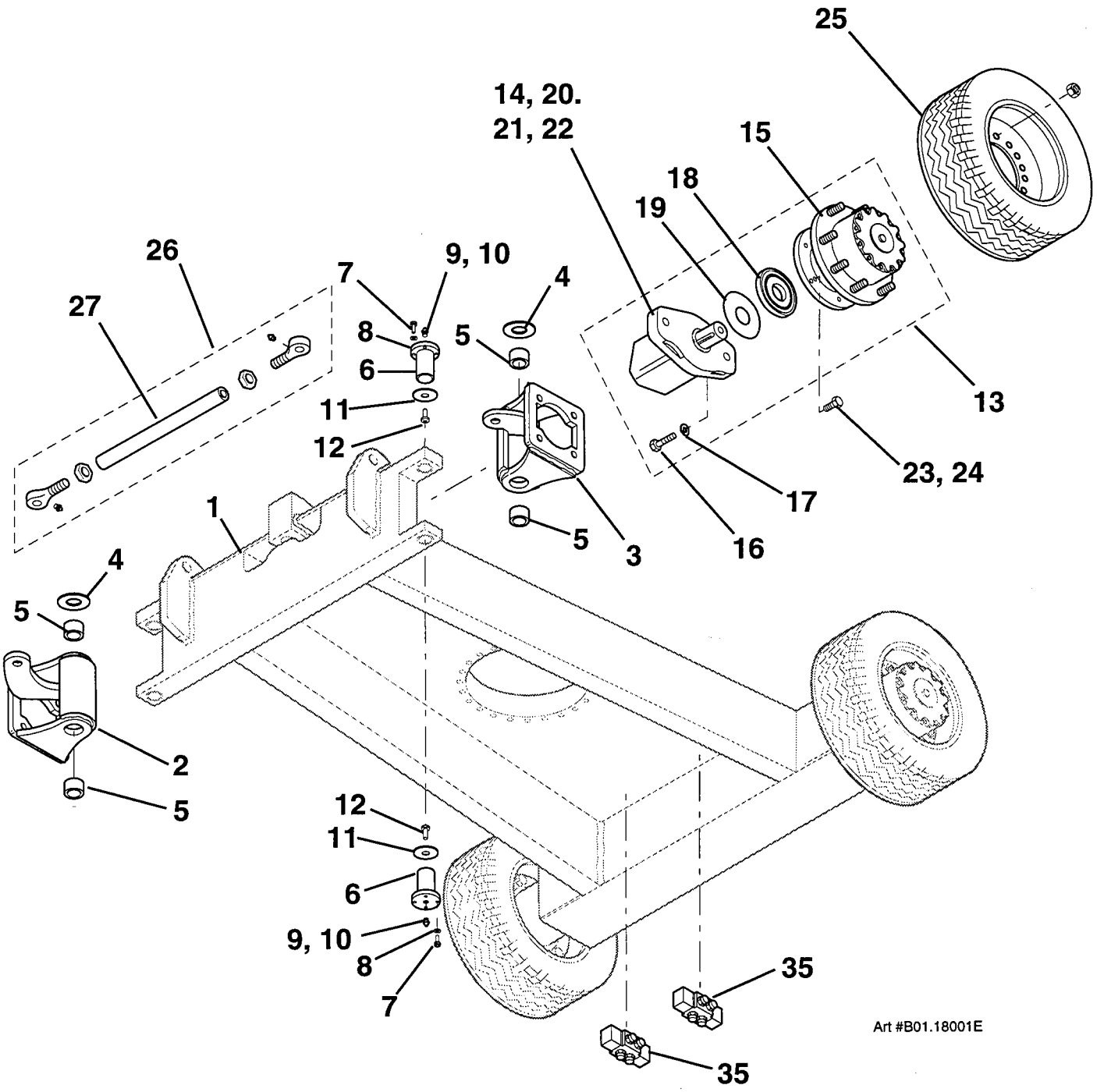
TITLE	UNDERCARRIAGE ASSEMBLY (2WD) (PLATE 5 OF 5)		
SIMON AERIALS INC.	REV. 11 JUN., 1996	PART NO.	PLATE NO. B01.16

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



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

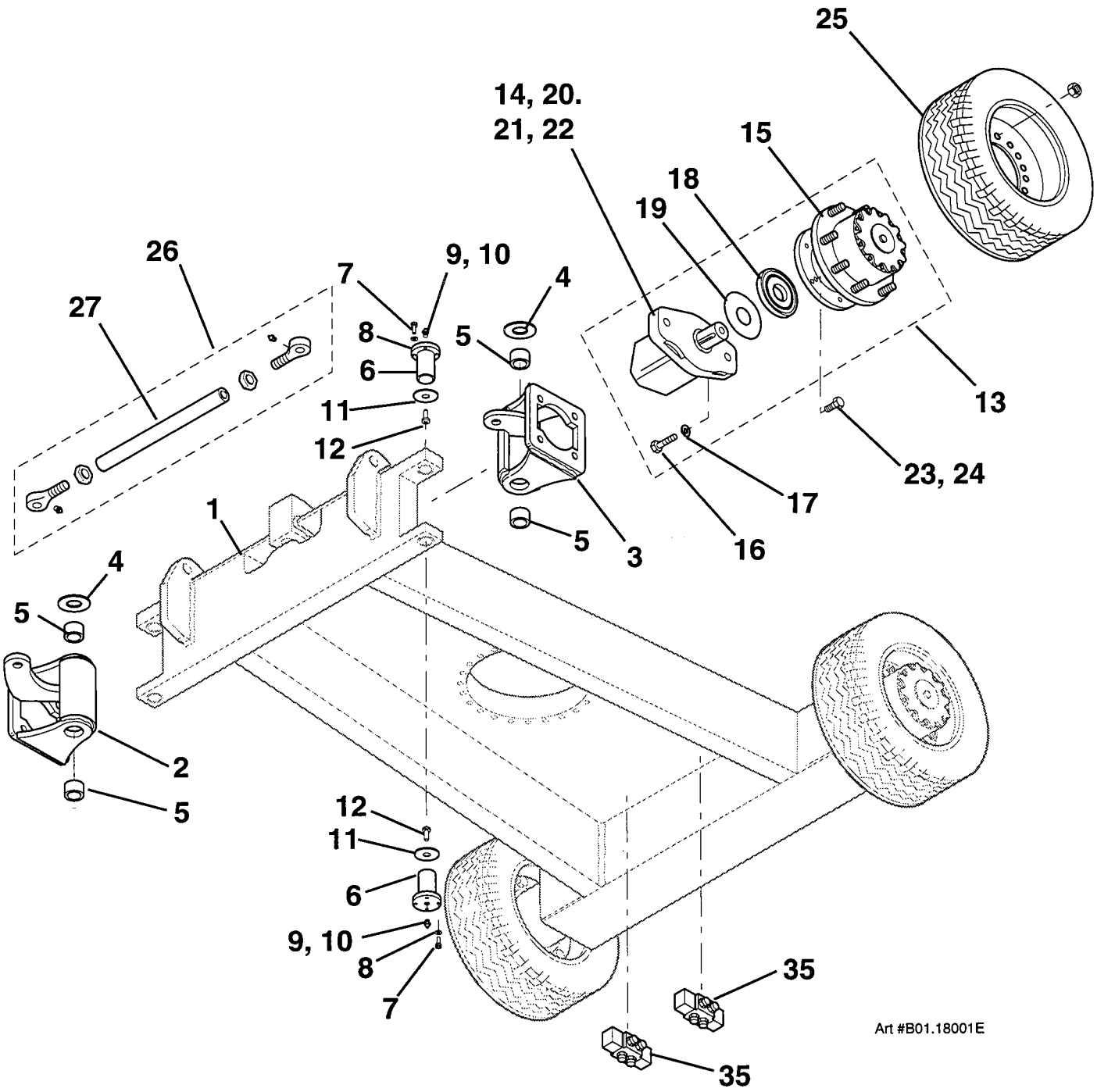
SIMON AERIALS INC. REV. 11 JUN, 1996 | PART NO. | PLATE NO. B01.18

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

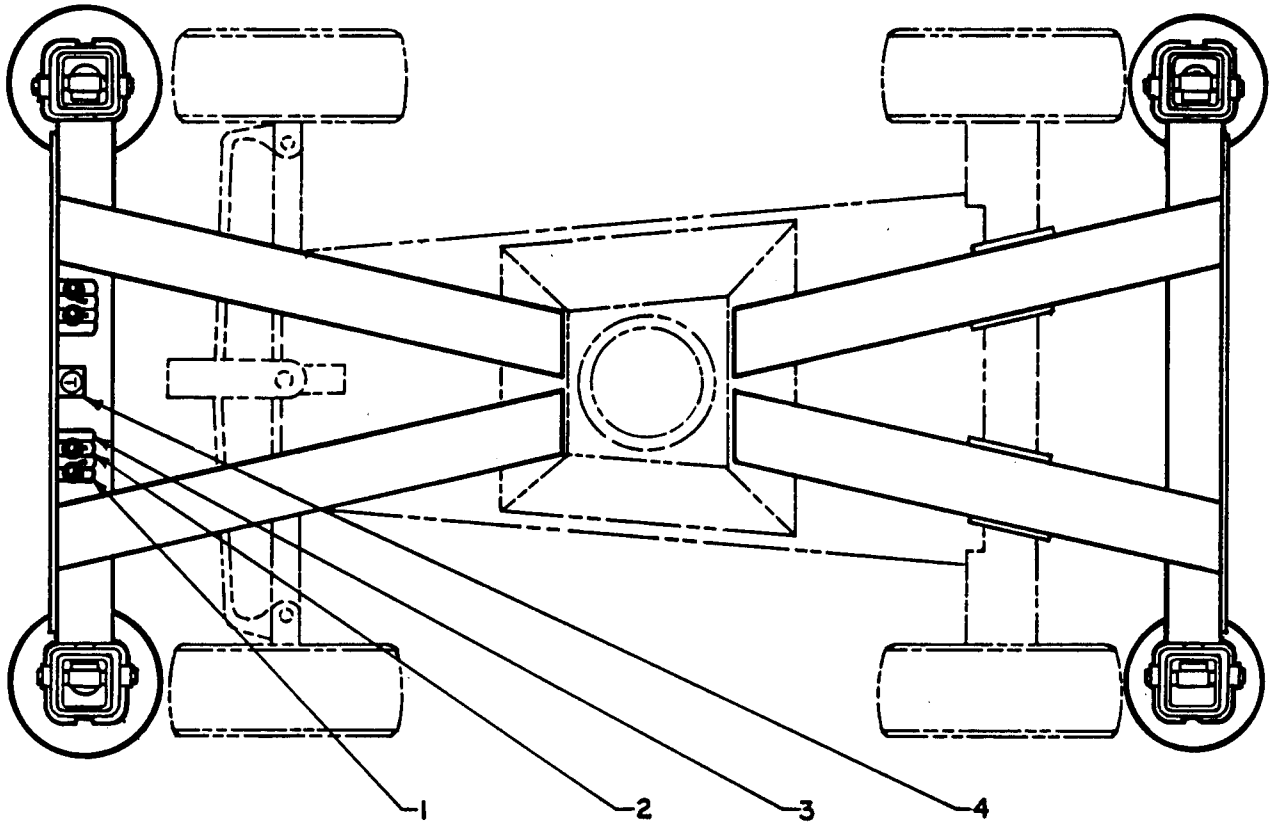


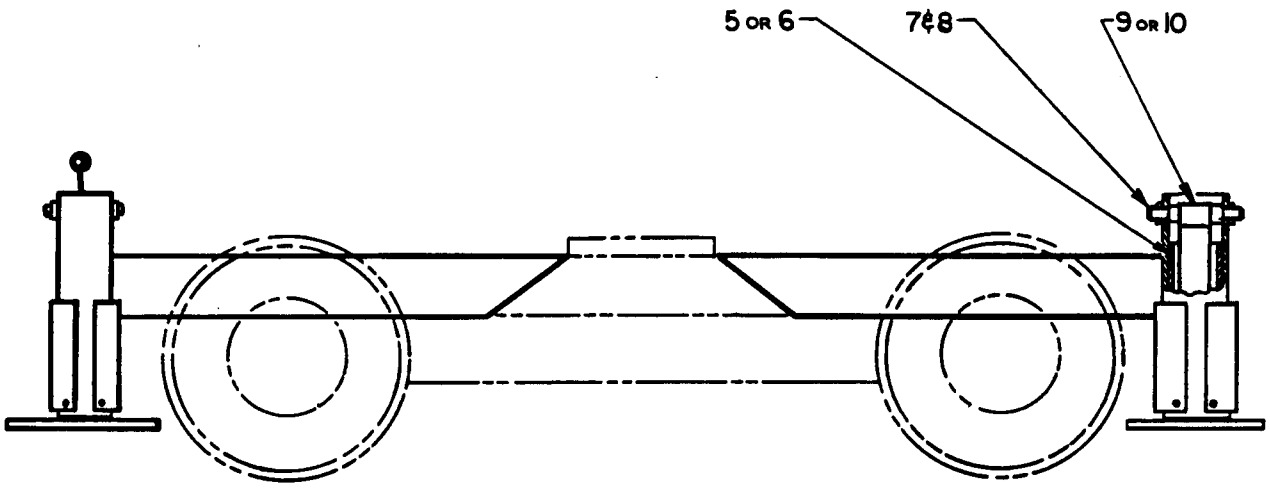
TITLE	TWO WHEEL/ FOUR-WHEEL DRIVE OPTION, MP (PLATE 2 OF 2)		
SIMON AERIALS INC.	REV. 11 JUN, 1996	PART NO.	PLATE NO. B01.18

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-067705		VALVE END CAP SECTION	2
2	01-067701		MANUAL 4-WAY VALVE SECTION	4
3	01-067704		VALVE INLET SECTION	2
4	10-003300		LEVEL ALL	1
5	SDW-2103870		L.H. OUTRIGGER TUBE ASS'Y. (INNER)	2
6	SCW-2103880		R.H. OUTRIGGER TUBE ASS'Y. (INNER)	2
7	SBD-2103850		PIN, OUTRIGGER CYLINDER	4
8			SNAP RING	8
9	SCW-2104080		L.H. OUTRIGGER CYLINDER	2
10	SCW-2104090		R.H. OUTRIGGER CYLINDER	2

DESCRIPTION	PART NO.
OUTRIGGER UNDERCARRIAGE ASSEMBLY	





0486/0386

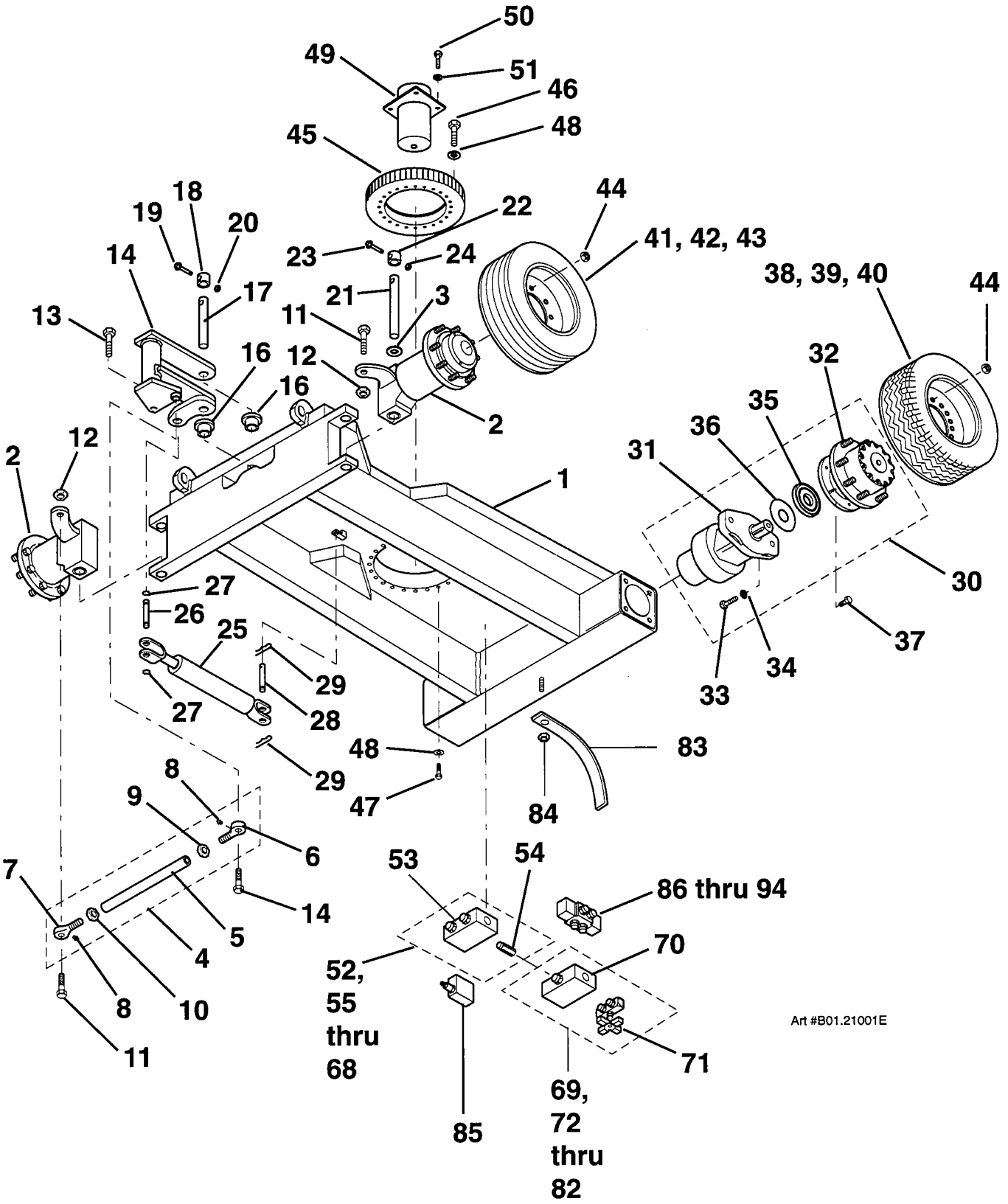
DESCRIPTION	PART NO.
OUTRIGGER UNDERCARRIAGE ASSEMBLY	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			UNDERCARRIAGE WELDMENT (for two-wheel drive)	1
2	3502495	C01.14	SPINDLE ASSEMBLY (Right hand) (for two-wheel drive)	1
	3503089	C01.15	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	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			ARM, CENTER STEER (without tow package)	1
	2004208		Steer arm pivot to cylinder dimension is 6.5" (165 mm).	1
	2302530		Pivot to cylinder dim. 6.84" (174 mm) (later 4WD versions).	1
	2103610		ARM, CENTER STEER (with tow package)	1
15	2004277		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	2186910		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	See index	D01.--	CYLINDER, STEER	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
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	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
			For 4WD components, see plate B01.18 or B01.27.	

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

PLATE NO.			PART NO.
B01.21	**SIMON AERIALS INC.**	REV. 29 APR., 1994	



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

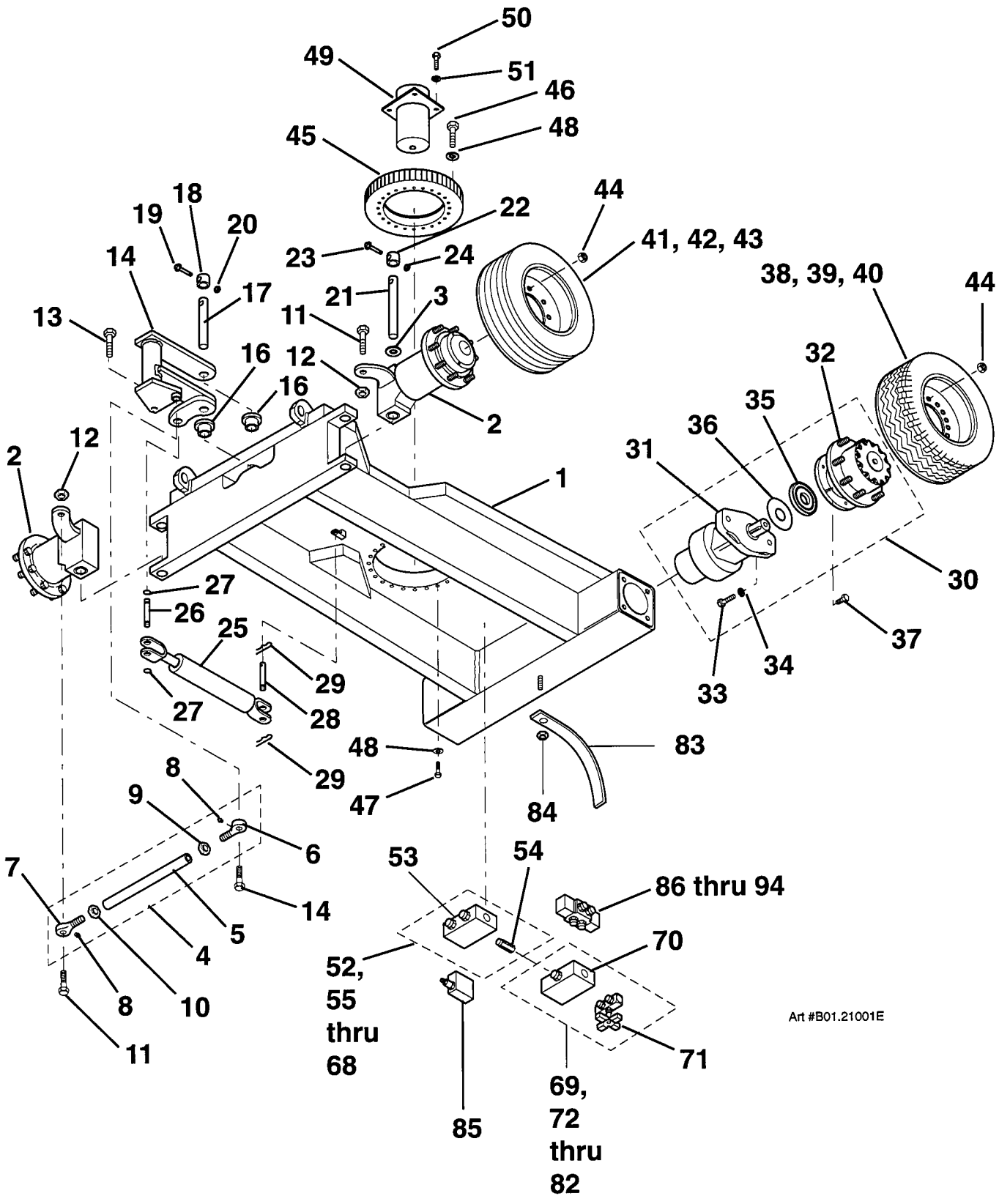
SIMON AERIALS INC. REV. 29 APR., 1994	PART NO.	PLATE NO. B01.21

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	3515620		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2
	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
38	3503104		TIRE AND WHEEL ASSEMBLY, DRIVE (Liquid filled)	2
	3508460		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
41	3515630		TIRE AND WHEEL ASSEMBLY, STEER (Liquid filled)	2
	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
41	3510016		TIRE AND WHEEL ASSEMBLY, STEER (Liquid filled)	2
	3508534		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	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-S)	1
56	06-039800		CONNECTOR, STRAIGHT THREAD (6 F50X-S)	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

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

PLATE NO.			PART NO.
B01.21	**SIMON AERIALS INC.**	REV. 29 APR., 1994	



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

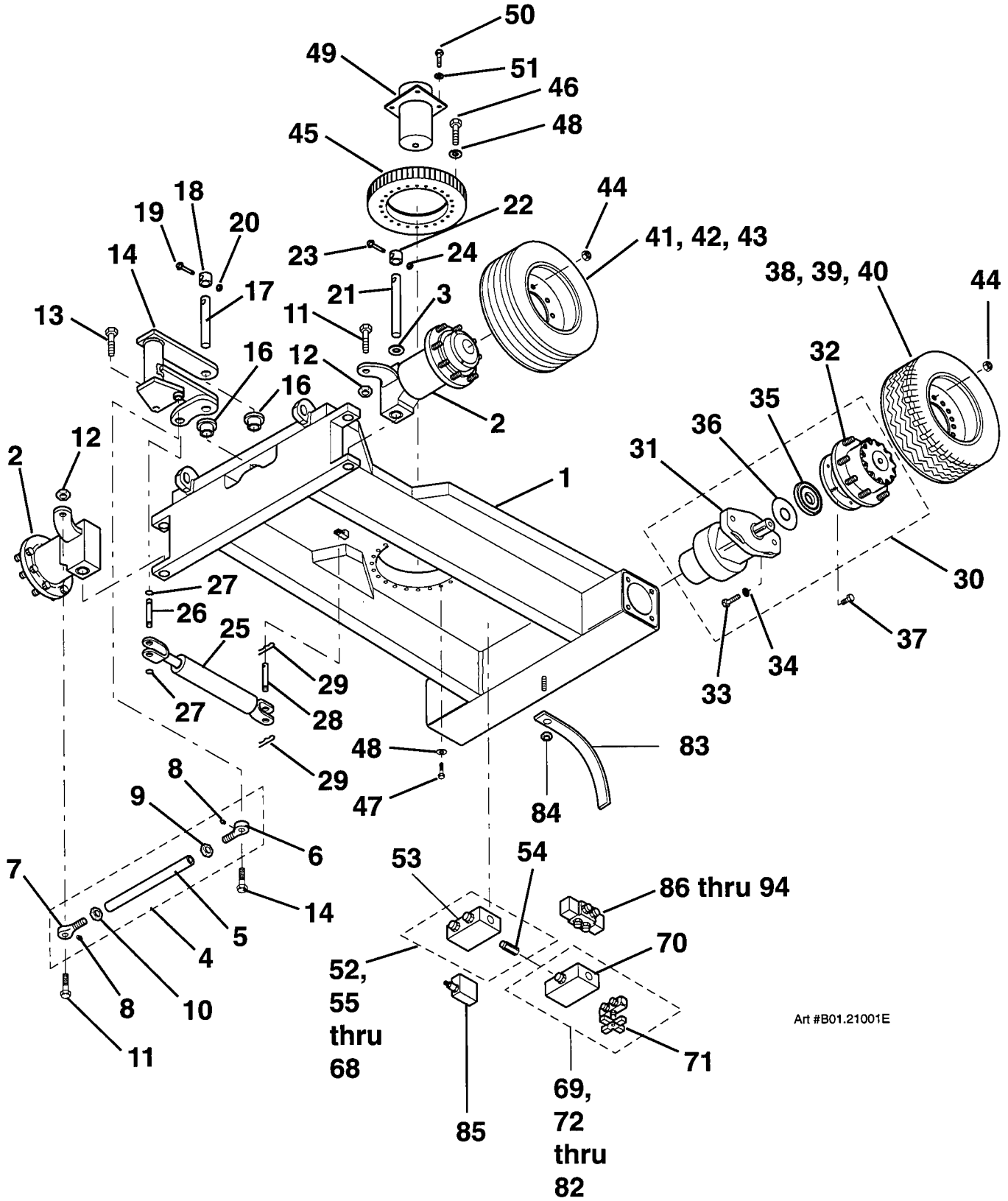
SIMON AERIALS INC. REV. 29 APR., 1994 | PART NO. | PLATE NO. B01.21

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
52			VALVE ASSEMBLY, MOTION CONTROL (continued)	1
61	3507665		TUBE ASSEMBLY	1
62	06-057800		NUT, TUBE (12 BTX-S)	2
63	06-059300		SLEEVE (12TX-S)	2
64			TUBE	1
65	3507867		TUBE ASSEMBLY	1
66	06-057500		NUT, TUBE (6 BTX-S)	2
67	06-059000		SLEEVE (6TX-S)	2
68			TUBE	1
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-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	3507654		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	3518240		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)

PLATE NO.	B01.21	SIMON AERIALS INC.	REV. 29 APR., 1994	PART NO.



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

SIMON AERIALS INC. REV. 29 APR., 1994 | PART NO. | PLATE NO. B01.21

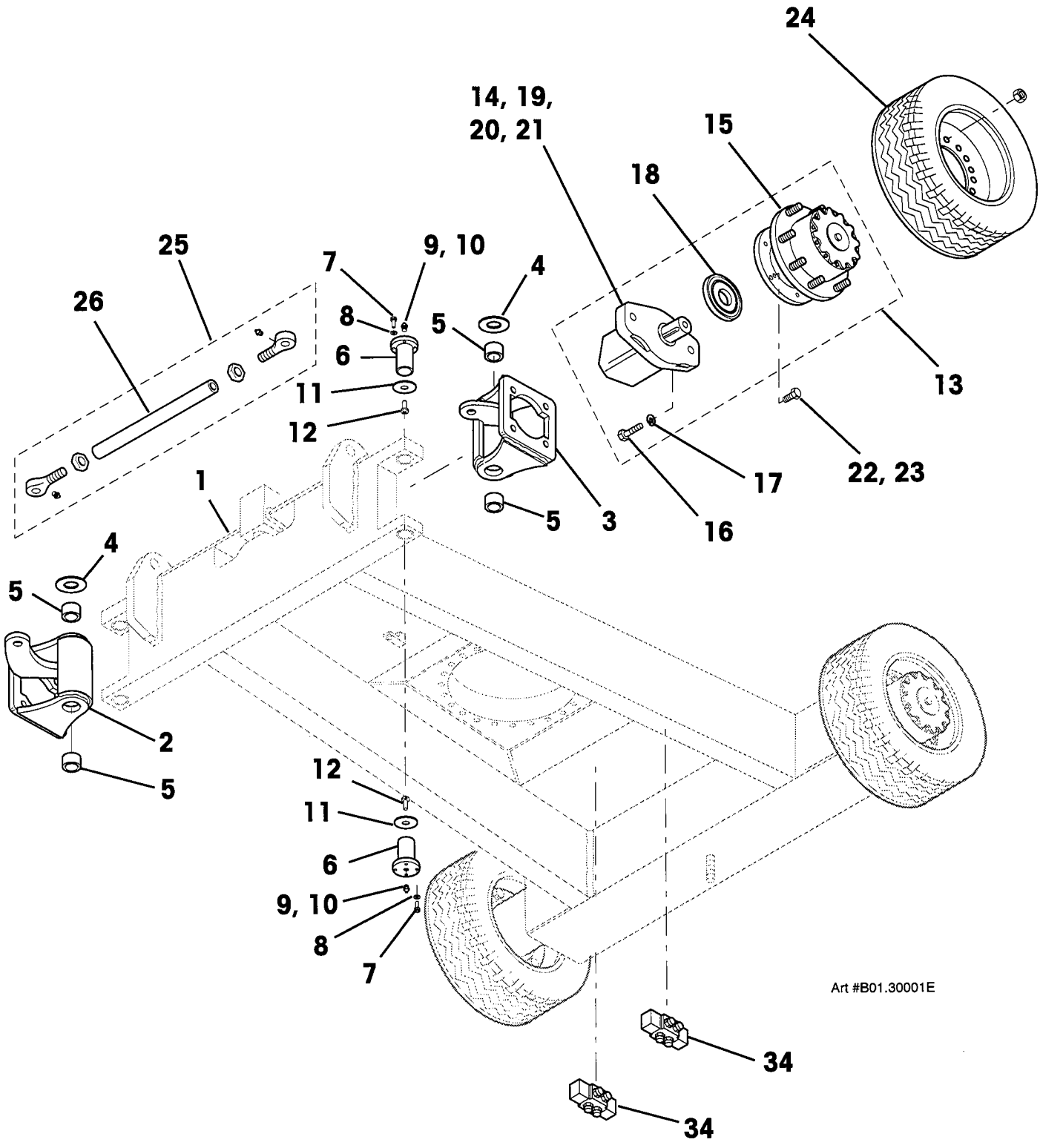
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			This plate identifies items found only on MP 60'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.	
1	205 4120		UNDERCARRIAGE WELDMENT (replaces part shown on 2WD plate)	1
2	202 2631		SPINDLE ASSEMBLY, FRONT DRIVE (Right hand)	1
3	202 2644		SPINDLE ASSEMBLY, FRONT DRIVE (Left hand)	1
4	08-004200		WASHER, THRUST (2-1/32" I.D., 3-5/8" O.D.)	4
5	201 0735		BEARING, SLEEVE (2-3/8" O.D. x 1-3/4" long)	4
6	234 0700		PIN, STEER	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 plate . . .	D03.07	MOTOR, HYDRAULIC (without brake)	1
15	02-048500		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	1
19	06-047400		45° ELBOW, "O"-RING TO 37° (12 V50X-S)	2
20	06-045400		90° ELBOW, "O"-RING TO 37° (12 C50X-S)	2
21	06-044400		90° ELBOW, "O"-RING TO 37° (4-6 C50X-S)	2
22	07-004128		CAP SCREW, HEX HEAD (5/8"-11 x 1-3/4", Grade 8)	16
23	07-065021		WASHER, HELICAL LOCK (5/8")	16
24			TIRE AND WHEEL ASSEMBLY, DRIVE (refer to **drive wheel** selections shown on 2WD plate.)	4
25	351 2000		TIE ROD ASSEMBLY (replaces part shown on 2WD plate)	2
26	212 3240		TIE ROD (29.19" [74 cm] long)	1
27	208 9148		CLAMP, DRIVE HOSE	10
28	07-050016		NUT, TOP LOCK (3/8"-16, Grade 5)	8
29	07-062016		WASHER, FLAT (3/8")	8
30	07-003031		CAP SCREW, HEX HEAD (5/16"-18 x 2-1/2", Grade 5)	12
31	07-050015		NUT, HEX STOP (5/16"-18, Grade 5)	12
32	07-062015		WASHER, FLAT (5/16")	24
33	10-150900		SLEEVE, COIL (Plastic, 1" dia.) (Bulk item, order as needed. 8 ft [2.44 M] required this application)	A.R.
34	01-230500		VALVE, SELECTOR (Replaces part shown on 2WD plate.)	2

TITLE: TWO WHEEL/ FOUR-WHEEL DRIVE OPTION, MP 60

SECTION B01. | PLATE NO. 30 | PAGE 01 | REV. - | DATED 31 OCT. 1996 | PART NO.

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TITLE: TWO WHEEL/ FOUR-WHEEL DRIVE OPTION, MP 60

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
	-	31 OCT. 1996	B01.	30	01

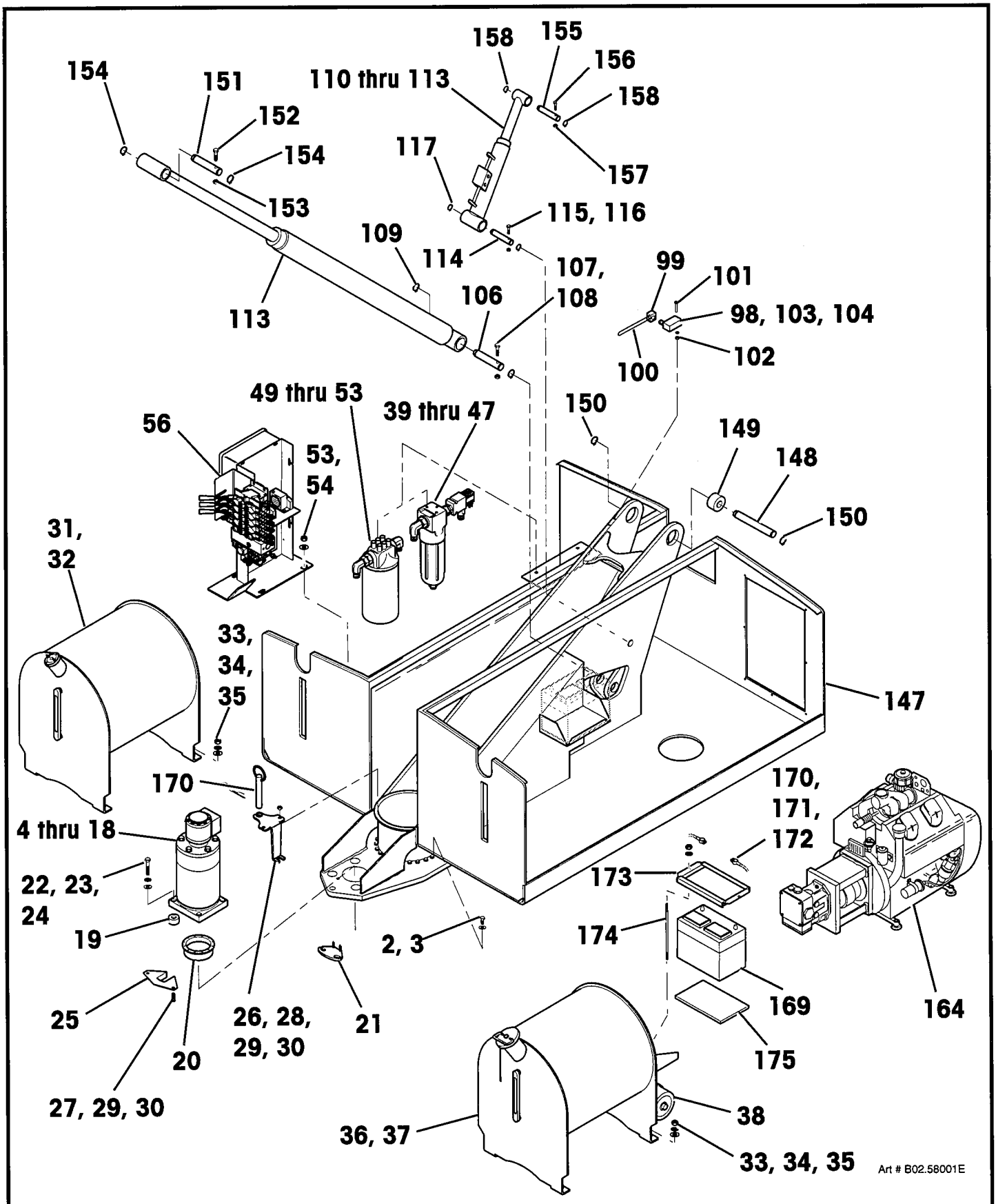
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			SUPERSTRUCTURE GROUP	1
	3547070		MP 60, 2 Wheel Drive, with Electro-Proportional controls	
	354 7071		MP 60, 4 Wheel Drive, with Electro-Proportional controls	
2	07-004152		CAP SCREW, HEX HEAD (3/4"-10 x 2-3/4", Grade 8)	23
3	07-061022		WASHER, FLAT (3/4" SAE, hardened)	23
4	352 9670		SPEED REDUCER (Swing drive) ASSEMBLY	1
5	See plate . .	D06.12	MOTOR, HYDRAULIC SWING	1
6	See plate . .	F02.04	REDUCER, SWING (Planetary gear type)	1
7	01-013800		VALVE, SHUTTLE	1
8	350 8820		HYDRAULIC TUBE ASSEMBLY (Approx. 8" [200 mm] long. Shuttle valve to brake.)	1
9	350 8835		HYDRAULIC TUBE ASSEMBLY ("U" shape)	2
10	06-039800		ADAPTER, "O"-RING TO 37° (6 F5OX-S)	2
11	06-051500		90° ELBOW, SWIVEL NUT (6 C6X-S)	1
12	06-044500		90° ELBOW, "O"-RING TO 37° (6-4 C5OX-S)	1
13	06-044600		90° ELBOW, "O"-RING TO 37° (6 C5OX-S)	1
14	06-048500		RUN TEE, MALE "O"-RING TO 37° (6 R5OX-S)	2
15	06-090800		REDUCER/ EXPANDER (10-6 F5O G5-S)	2
16	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	2
17	07-060018		WASHER, FLAT (1/2", SAE)	2
18	07-065018		WASHER, HELICAL LOCK	2
19	208 3030		SPACER, SPEED REDUCER SUPPORT	4
20	205 9387		RING, ECCENTRIC	1
21	215 9190		PLATE, ECCENTRIC LOCK	1
22	07-004131		CAP SCREW, HEX HEAD (5/8"-11 x 2-1/2", Grade 8)	4
23	07-061021		WASHER, FLAT (5/8" SAE)	4
24	07-065021		WASHER, HELICAL LOCK (1/2")	4
25	214 3480		GUARD, SWING PINION GEAR	1
26	210 9250		LOCK, SWIVEL	1
27	07-003086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 5)	2
28	07-040018		NUT, HEX (1/2"-13, Grade 5)	2
29	07-065018		WASHER, HELICAL LOCK (1/2")	4
30	07-062018		WASHER, FLAT (1/2")	4

TITLE SUPERSTRUCTURE ASSEMBLY, MP 60 (ELECTRO-PROPORTIONAL)

SECTION B02. | PLATE NO. 58 | PAGE 01 | REV. - | DATED 30 DEC. 1996 | PART NO.

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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 SUPERSTRUCTURE ASSEMBLY, MP 60 (ELECTRO-PROPORTIONAL)					
	PART NO.	REV. -	DATED 30 DEC. 1996	SECTION B02.	PLATE NO. 58	PAGE 01

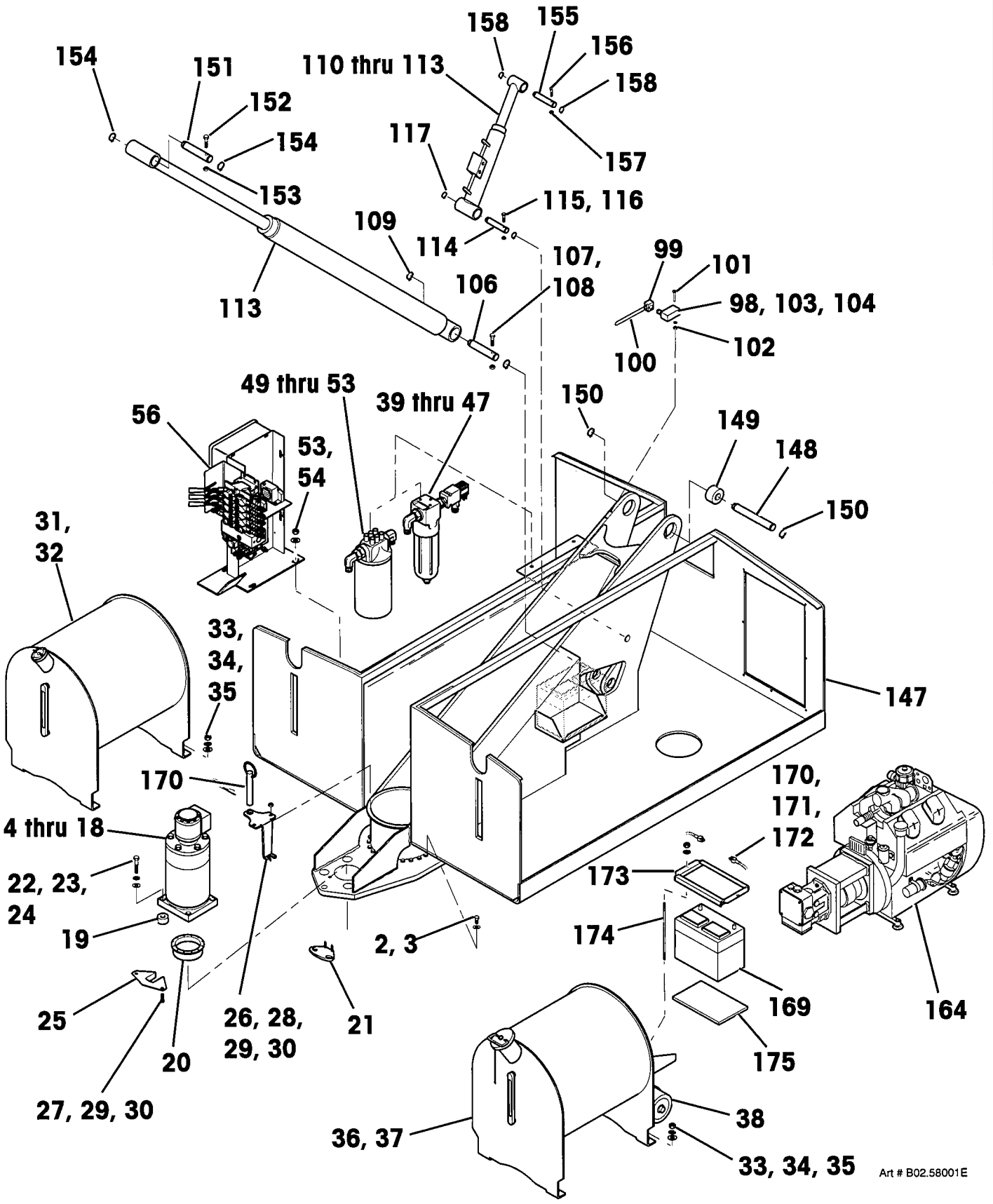
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SUPERSTRUCTURE GROUP (continued)	
31	See plate . .	C11.01	TANK ASSEMBLY, FUEL	1
32	10-001900		CAP, FUEL TANK FILLER (Vented, Anti-surge)	1
33	07-040018		NUT, HEX (1/2"-13, Grade 5)	8
34	07-065018		WASHER, HELICAL LOCK (1/2")	8
35	07-062018		WASHER, FLAT (1/2")	16
36	See plate . .	C10. 01	TANK ASSEMBLY, HYDRAULIC	1
37	10-002100		CAP, HYDRAULIC TANK FILLER	1
38	See plate . .	D07.04	PUMP, EMERGENCY HYDRAULIC	1
39	01-237500		FILTER, HYDRAULIC (High pressure, in line, 6000 psi [414 bar], non-bypass)	1
40	01-237501		ELEMENT, FILTER	1
41	06-045800		90° ELBOW, "O"-RING TO 37° (16 C5OX-S)	1
42	06-215200		ADAPTER, SWIVEL NUT (16 F65OX-S)	1
43	01-239400		VALVE, CARTRIDGE (On/ Off, with 10 Volt coil)	1
44	06-041400		ADAPTER, "O"-RING to 37° (16 F50X-S)	1
45	07-003045		CAP SCREW, HEX HEAD (3/8"-16 x 1", Grade 5)	3
46	07-065016		WASHER, HELICAL LOCK (3/8")	3
47	07-062016		WASHER, FLAT (3/8")	3
48	01-238000		FILTER, HYDRAULIC (Return line)	1
49	01-238001		CANISTER, FILTER (with 10 micron element)	1
50	06-045800		90° ELBOW, "O"-RING TO 37° (16 C5OX-S)	2
51	07-003025		CAP SCREW, HEX HEAD (5/16"-18 x 1", Grade 5)	2
52	07-065015		WASHER, HELICAL LOCK (5/16")	2
53	07-062015		WASHER, FLAT (5/16")	2
54	07-050016		NUT, TOP LOCK (3/8"-16, Grade 5)	4
55	07-062016		WASHER, FLAT (3/8")	8

TITLE SUPERSTRUCTURE ASSEMBLY, MP 60 (ELECTRO-PROPORTIONAL)

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	PART NO.	REV. -	DATED 30 DEC. 1996	SECTION B02.	PLATE NO. 58	PAGE 02

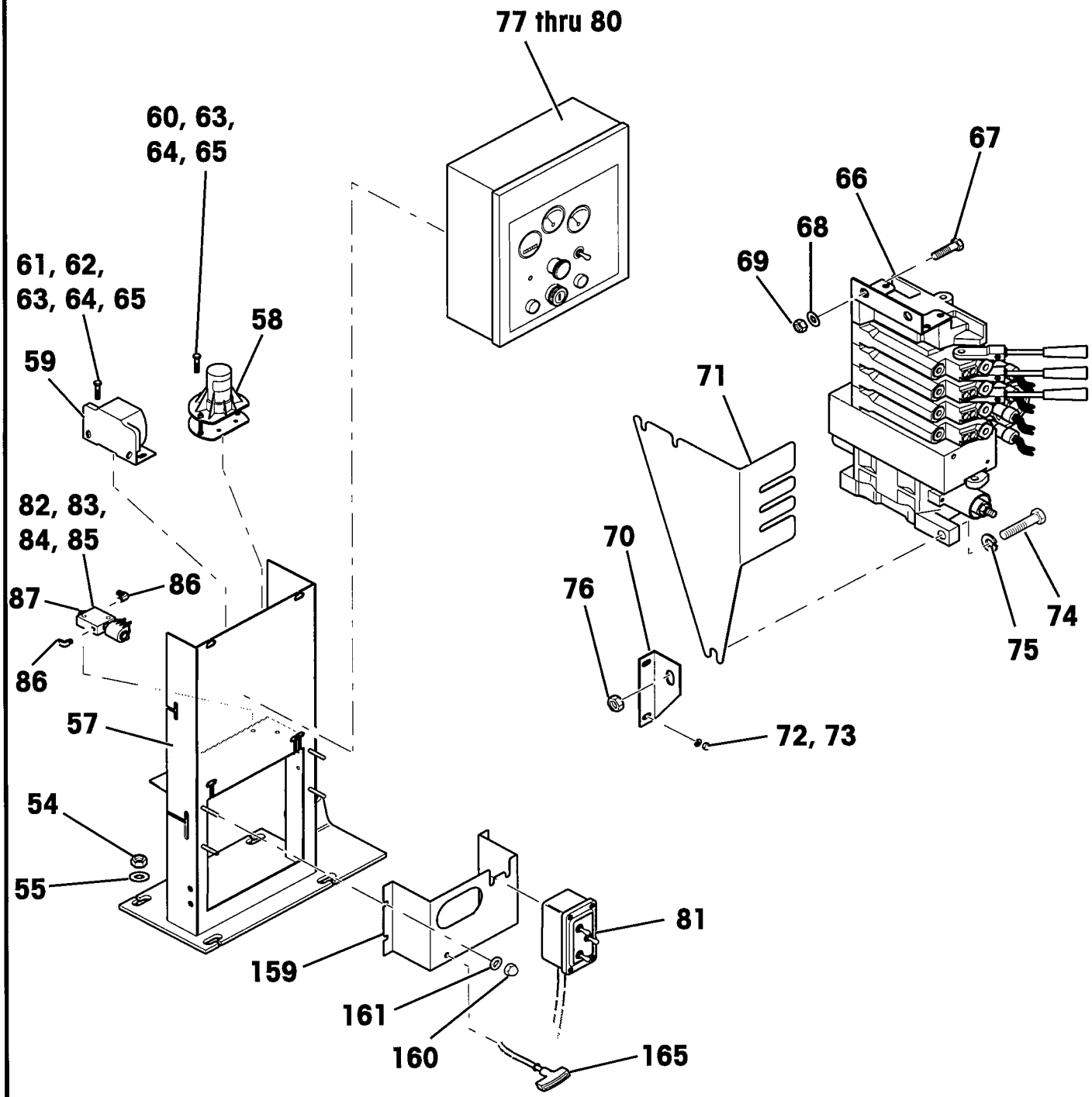
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SUPERSTRUCTURE GROUP (continued)	
56	353 5501		GROUND CONTROL ASSEMBLY	1
57	230 8400		BRACKET, GROUND CONTROL	1
58	03-487100		SENSOR, LEVEL (4.5°, 2 second delay)	1
59	03-706000		ALARM, MOVEMENT DUAL SOUND	1
60	07-003003		CAP SCREW, HEX HEAD (1/4"-20 x 3/4", Grade 5)	2
61	07-003004		CAP SCREW, HEX HEAD (1/4"-20 x 7/8", Grade 5)	1
62	07-003005		CAP SCREW, HEX HEAD (1/4"-20 x 1", Grade 5)	1
63	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	4
64	07-062014		WASHER, FLAT (1/4")	6
65	10-060600		CLAMP, LOOP (3/8")	2
66	353 5510	C02.37	MANIFOLD ASSEMBLY	1
67	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4", Grade 5)	2
68	07-062016		WASHER, FLAT (3/8")	2
69	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	2
70	230 8470		BRACKET, VALVE MOUNTING	1
71	230 9620		COVER, GROUND CONTROL LEVERS	1
72	07-044014		NUT, ACORN (1/4"-20, low crown, stainless steel)	2
73	07-062014		WASHER, FLAT (1/4")	4
74	07-003048		CAP SCREW, HEX HEAD (3/8"-16 x 1-3/4", Grade 5)	1
75	07-062016		WASHER, FLAT (3/8")	1
76	07-050016		NUT, LOCK (3/8"-16, Grade 8)	1
77	See plate . .	C03. - -	PANEL ASSEMBLY, GROUND ELECTRICAL	1
78	07-003025		CAP SCREW, HEX HEAD (5/16"-18 x 1", Grade 5)	4
79	07-062015		WASHER, FLAT (5/16")	8
80	07-050015		NUT, LOCK (5/16"-18, Grade 5)	4
81	See plate . .	C06.06	PENDANT, REMOTE CONTROL	1
82	01-037100		VALVE, SOLENOID (3-way) (items 82 thru 87 used on 2WD)	1
83	07-062014		WASHER, FLAT (1/4")	8
84	07-003011		CAP SCREW, HEX HEAD (1/4"-20 x 2-1/2", Grade 5)	2
85	03-092200		TERMINAL, COUPLING MALE INSULATED	2
86	06-003800		90° ELBOW, MALE 37° TO NPT (6 CTX-S)	2
87	06-000700		CONNECTOR, MALE 37° TO NPT (6 FTX-S)	1
88	353 3950		HOSE ASSEMBLY (19")	1
89	351 5300		HOSE ASSEMBLY (16")	1
90	353 5490		HOSE ASSEMBLY (12")	1

TITLE SUPERSTRUCTURE ASSEMBLY, MP 60 (ELECTRO-PROPORTIONAL)

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
B02.	58	03	-	30 DEC. 1996	

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Art # B02.58002E

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TITLE: SUPERSTRUCTURE ASSEMBLY, MP 60 (ELECTRO-PROPORTIONAL)

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
	-	30 DEC. 1996	B02.	58	03

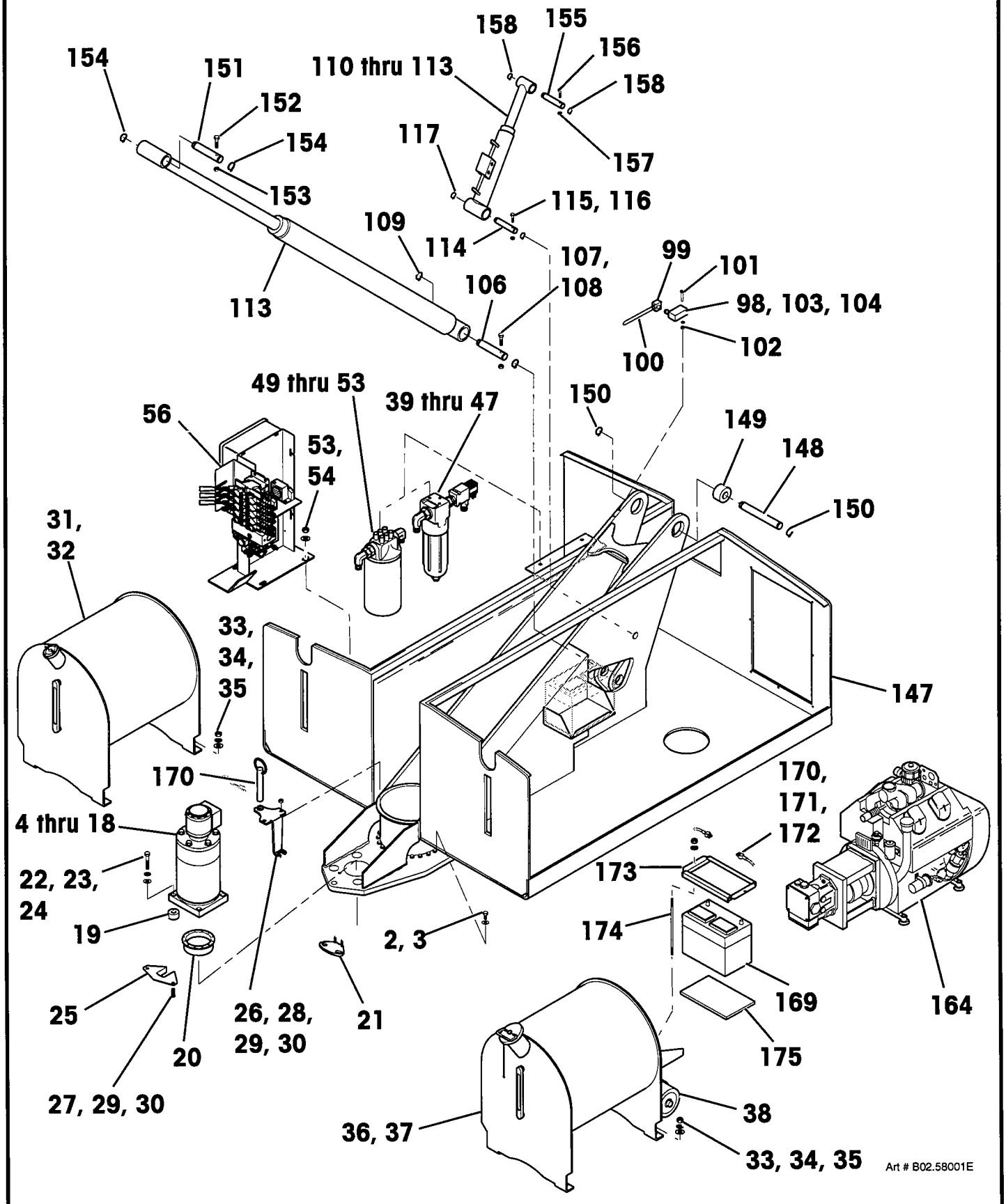
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SUPERSTRUCTURE GROUP (continued)	
			GROUND CONTROL ASSEMBLY	
91	01-230400		VALVE, DIRECTIONAL (4-way)	
			(item 91 thru 97 used on 2SP 4WD) (not shown)	1
92	06-039800		ADAPTER, "O"-RING TO 37° (6 F50X-S)	1
93	06-044600		90° ELBOW, STRAIGHT THREAD (6 C50X-S)	2
94	06-047000		45° ELBOW, "O"-RING TO 37° (6 V50X)	1
95	07-003010		CAP SCREW, HEX HEAD (1/4"-20 x 2-1/4", Grade 5)	2
96	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	2
97	07-062014		WASHER, FLAT (1/4")	4
98	03-493700		SWITCH, LIMIT (Side rotary, one normally open, one normally closed contact)	1
99	03-494100		ARM, LIMIT SWITCH (includes 6" nylon loop, which must be removed and replaced with rod, below.)	1
100	201 0906		ARM, LIMIT SWITCH (Stainless steel rod)	1
101	07-008356		CAP SCREW, SOCKET HEAD (#10-24 x 1-3/4", Grade 8, stainless steel)	2
102	07-062011		WASHER, FLAT (#10)	2
103	03-085200		CABLE, ELECTRICAL (SJO, 2 conductor, #16 AWG) (Bulk item, 14 ft [4.3 m] required this application)	A.R.
104	03-045500		GRIP, CORD (1/2", with .31" to .38" seal)	1
105	04-036000	D09.41	CYLINDER, BOOM LIFT	1
106	219 4570		PIN, LIFT CYLINDER (1-3/4" x 14-15/16") (base end) (replaces 206 9166)	1
107	07-003093		CAP SCREW, HEX HEAD (1/2"-13 x 3", Grade 5)	1
108	07-058400		NUT, LUG (1/2"-13, Grade 8)	1
109	08-041000		RING, RETAINING (1-3/4")	2
110	04-035500	D10.14	CYLINDER, MASTER LEVEL	1
111	06-044600		90° ELBOW, "O"-RING TO 37° (6 C50X-S)	2
112	06-039800		ADAPTER, "O"-RING TO 37° (6 F50X-S)	1
113	06-051500		90° ELBOW, SWIVEL NUT (6 C6X-S)	1
114	206 8884		PIN, MASTER CYLINDER (base end) (1-1/4" x 4-7/8" long) (219 4490)	1
115	07-003093		CAP SCREW, HEX HEAD (1/2"-13 x 3", Grade 5)	1
116	07-058400		NUT, LUG (1/2"-13, Grade 8)	1
117	08-040700		RING, RETAINING (1-1/4")	2
118	08-050500		FITTING, GREASE (1/8", 45°)	1
119	08-066300		CAP, GREASE FITTING (White plastic)	1

TITLE SUPERSTRUCTURE ASSEMBLY, MP 60 (ELECTRO-PROPORTIONAL)

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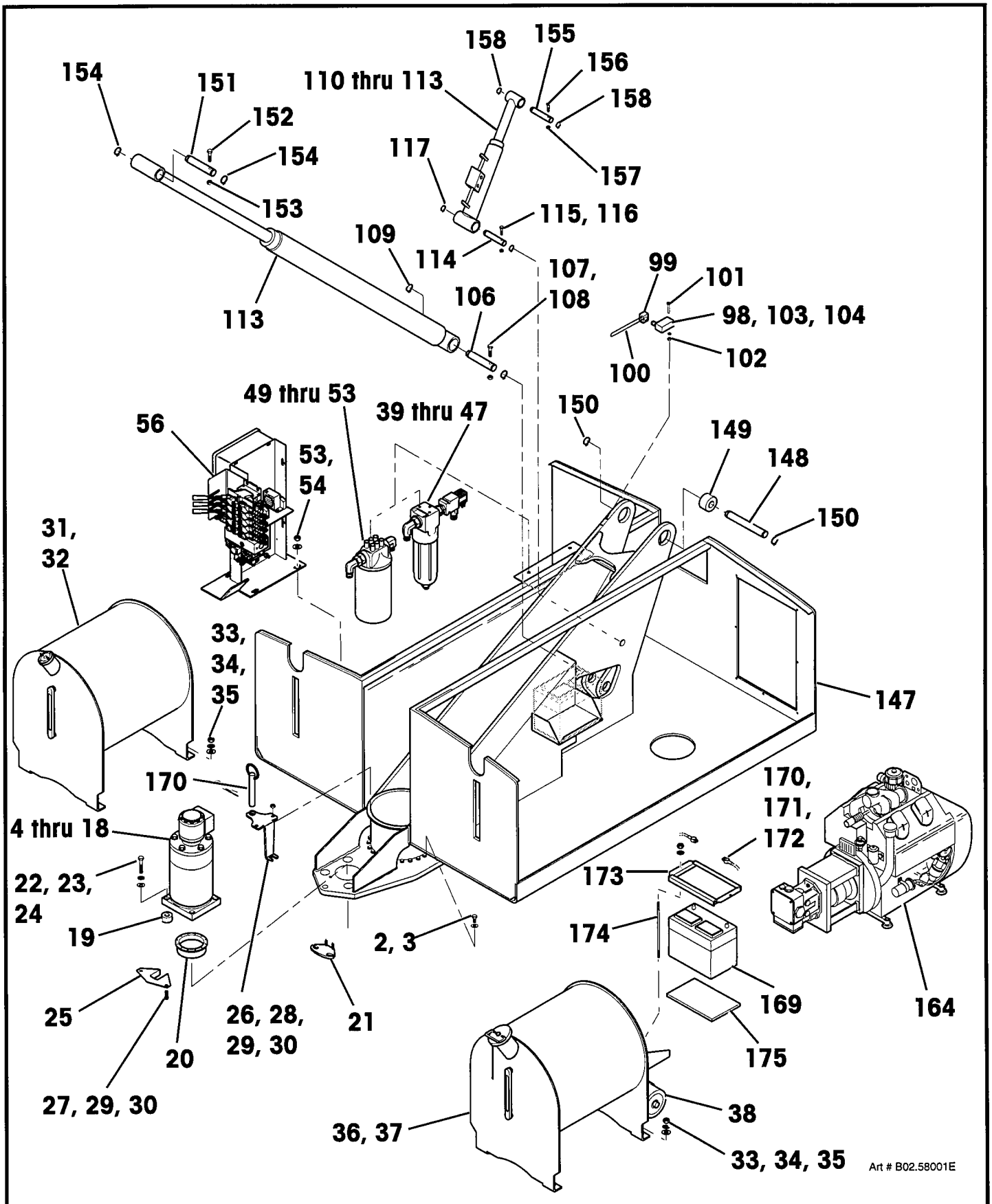
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SUPERSTRUCTURE GROUP (continued)	
120	354 5360		HOSE KIT, MP 60 SUPERSTRUCTURE	1
121	351 7060		HOSE ASSEMBLY	1
122	10-060600		CLAMP, LOOP (3/8", G-6)	1
123	10-061000		CLAMP, LOOP (5/8", G-10, for wire loom)	5
124	10-061600		CLAMP, LOOP (1", G-16)	1
125	03-040200		CLAMP, WIRE (EMT strap) (.50")	1
126	207 1002		CLAMP, HOSE	1
127	218 5280		CLAMP, HOSE	1
128	10-113200		PROTECTOR, HOSE (Rubber, 6" x 9" x 1/8")	2
129	03-064700		TIE, CABLE (14.7" (368 mm) long]	15
130	03-066900		LOOM, WIRE (1/2") (Bulk item, 5 Ft [1.5 M] required here)	A.R.

TITLE SUPERSTRUCTURE ASSEMBLY, MP 60 (ELECTRO-PROPORTIONAL)

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PART NO.	REV. -	DATED 30 DEC. 1996	SECTION B02.	PLATE NO. 58	PAGE 05	

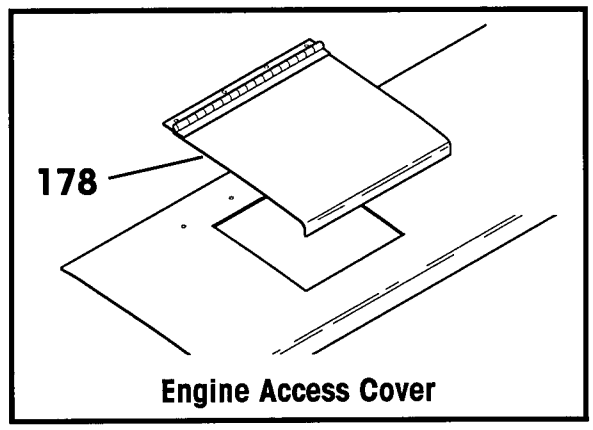
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SUPERSTRUCTURE GROUP (continued)	
131	212 5040		PANEL, ROOF (Left)	1
132	230 4770		SIDE PANEL (on left side of superstructure)	
			(Narrow panel to left of doors)	1
133	230 4800		SIDE PANEL (on left side of superstructure)	
			(Wide panel to right of doors)	1
134	230 4660		DOOR ASSEMBLY (on left side of superstructure)	
			(Right hinged, with no latch cutouts)	1
135	231 5810		DOOR ASSEMBLY (on left side of superstructure)	
			(Left hinged, with latch and control access cutouts)	1
136	10-004900		LATCH, FLUSH (Locking)	4
137	07-029365		SCREW, HEX WASHER HEAD	
			(#12-14 x 1", self drilling, with rubber seal)	49
138	07-044014		NUT, ACORN (1/4"-20, Low crown, stainless steel)	28
139	07-062014		WASHER, FLAT (1/4")	28
140	10-128102		WASHER (Brass, .391" dia.)	8
141	10-129100		WEATHERSTRIP (3/16" x 3/4" x 50 Ft)	A.R.
142	10-138500		BUMPER, RECESSED (Rubber, 1" dia. x 1/2" high)	8
143			SIDE PANEL (to left of doors, on right side of superstructure)	1
	230 4790		Wide panel (except Ford or Perkins engine) (shown)	
	230 4770		Narrow panel (with Ford or Perkins engine)	
144			SIDE PANEL (to right of doors, on right side of superstructure)	1
	230 4760		Narrow panel (except Ford or Perkins) (shown)	
	230 4800		Wide panel (with Ford or Perkins engine)	
145	230 4610		DOOR ASSEMBLY (on right side of superstructure)	
			(Right hinged, with latch cutouts)	1
146	230 4650		DOOR ASSEMBLY (on right side of superstructure)	
			(Left hinged, with no latch cutouts)	1

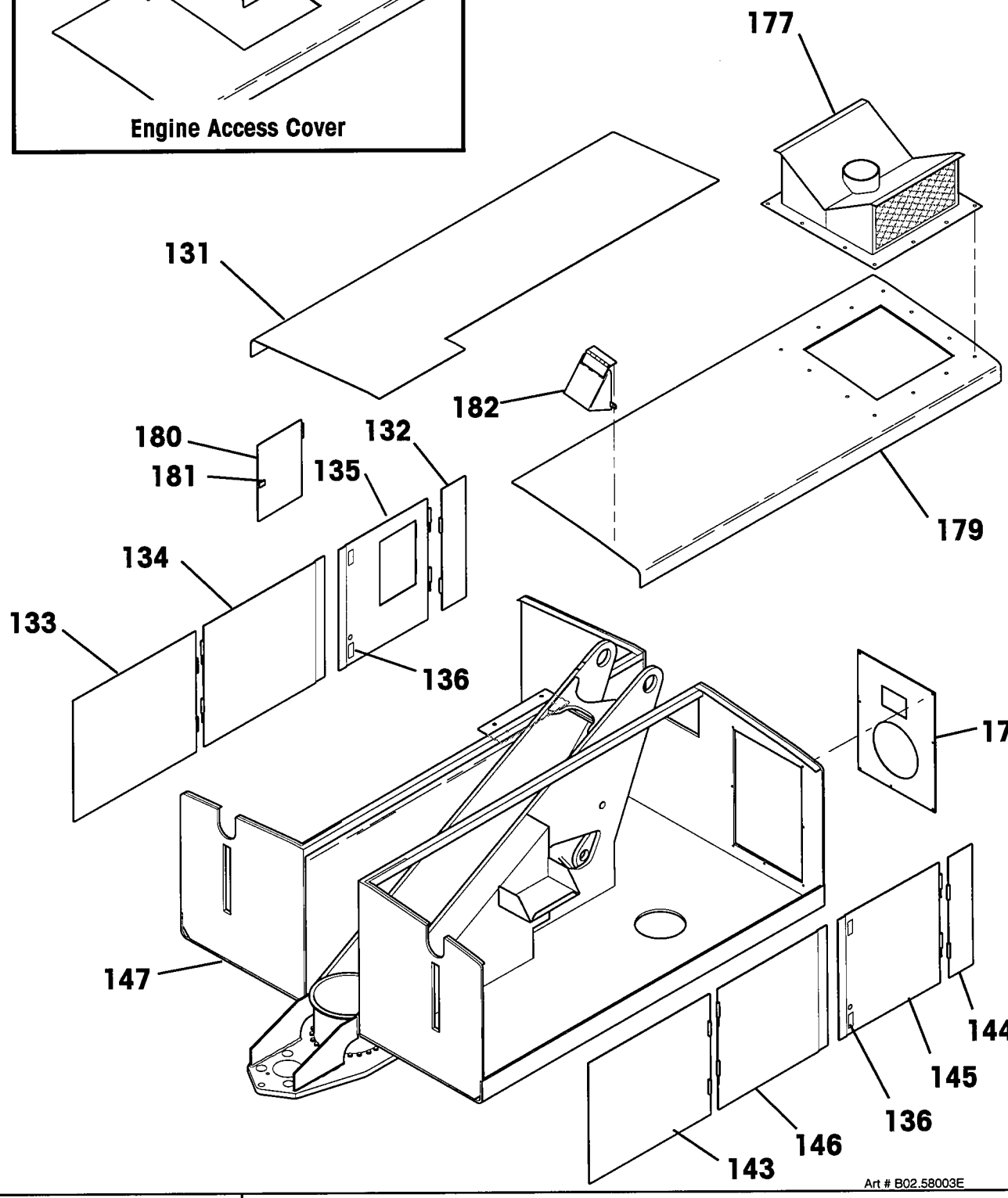
TITLE SUPERSTRUCTURE ASSEMBLY, MP 60 (ELECTRO-PROPORTIONAL)

SECTION	PLATE NO.	PAGE	REV.	DATED	PART NO.
B02.	58	06	-	30 DEC. 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



Engine Access Cover



Art # B02.58003E

Simon Aerials Inc.
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TITLE SUPERSTRUCTURE ASSEMBLY, MP 60 (ELECTRO-PROPORTIONAL)

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
	-	30 DEC. 1996	B02.	58	06

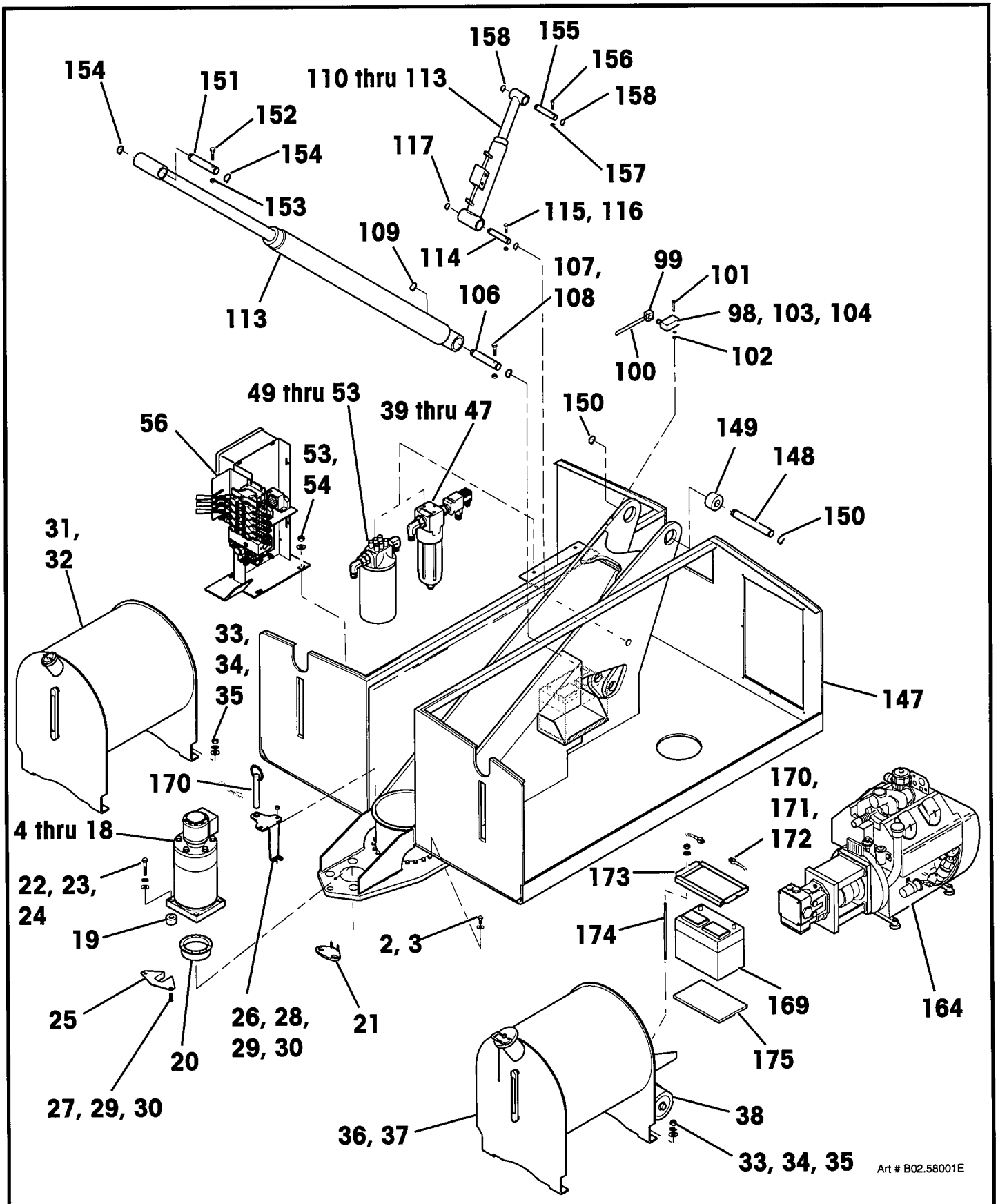
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items are not part of the Superstructure Assembly:	
147			SUPERSTRUCTURE WELDMENT	
	232 0360		with Ford LSG 423 liquid cooled engine.	1
	call Simon		with engines other than Ford LSG 423.	1
148	219 4590		PIN, BOOM PIVOT (2.25" x 17.0") (replaces 206 9146)	1
149	08-013300		BUSHING, SELF ALIGNING (Boom pivot)	2
150	08-043200		RING, RETAINING (2-1/4")	2
151	219 4560		PIN, LIFT CYLINDER (1.75" x 10.44") (rod end, replaces 206 9155)	1
152	07-003093		CAP SCREW, HEX HEAD (1/2"-13 x 3", Grade 5)	1
153	07-058400		NUT, LUG (1/2"-13, Grade 8)	1
154	08-041000		RING, RETAINING (1-3/4")	2
155	206 8864		PIN, MASTER CYLINDER (1-1/4" x 6-1/8") (rod end)	1
156	07-003093		CAP SCREW, HEX HEAD (1/2"-13 x 3", Grade 5)	1
157	07-058400		NUT, LUG (1/2"-13, Grade 8)	1
158	08-040700		RING, RETAINING (1-1/4")	2
159	219 9940		BRACKET, PENDANT MOUNTING	1
160	07-044014		NUT, Acorn (1/4" - 20) (Bracket mounting)	4
161	07-062014		WASHER, FLAT (1/4") (Bracket mounting)	4
162	07-080004		PIN, HITCH (1-1/4" x 7") (includes hairpin clip)	1
163			CLIP, HAIRPIN	1
164	See plate . .	C04. - -	ENGINE ASSEMBLY	1
165	09-053100		CABLE, GASOLINE TO PROPANE SWITCHING (with dual fuel option)	1
166	10-061200		CLAMP, LOOP (3/4", for LP line)	3
167	07-062014		WASHER, FLAT (1/4")	3
168	07-050014		NUT, LOCK (1/4"-20)	3
169	03-010001		BATTERY (12 Volt DC, 95 Amp)	2
170	03-070100		CABLE, BATTERY [Black, 12" (30 cm) long]	1
	03-451800		CABLE, BATTERY [Black, 30" (.76 M) long]	1
171	03-451900		CABLE, BATTERY [Red, 86" (2.2 M) long]	1
172	03-487500		TERMINAL, BATTERY	1
173	03-064300		HOLD DOWN, BATTERY	2
174	07-090111		J-BOLT [10" (254 mm) long]	4
175	10-112900		PROTECTOR, BATTERY (Neoprene, 7" x 11" x 1/8")	2

TITLE SUPERSTRUCTURE ASSEMBLY, MP 60 (ELECTRO-PROPORTIONAL)

SECTION B02. | PLATE NO. 58 | PAGE 07 | REV. - | DATED 30 DEC. 1996 | PART NO.

Simon Aerials Inc.
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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 SUPERSTRUCTURE ASSEMBLY, MP 60 (ELECTRO-PROPORTIONAL)					
PART NO.	REV. -	DATED 30 DEC. 1996	SECTION B02.	PLATE NO. 58	PAGE 07	

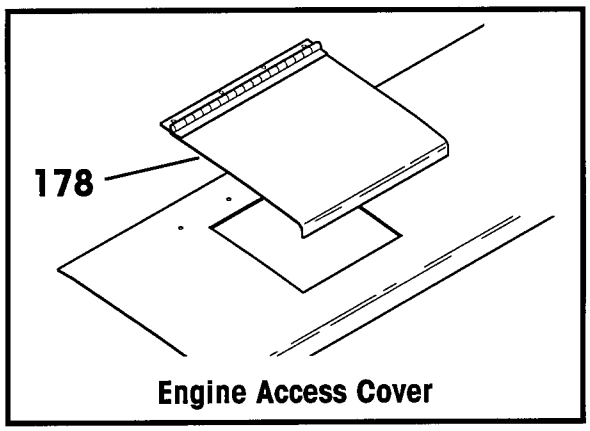
PARTS LIST

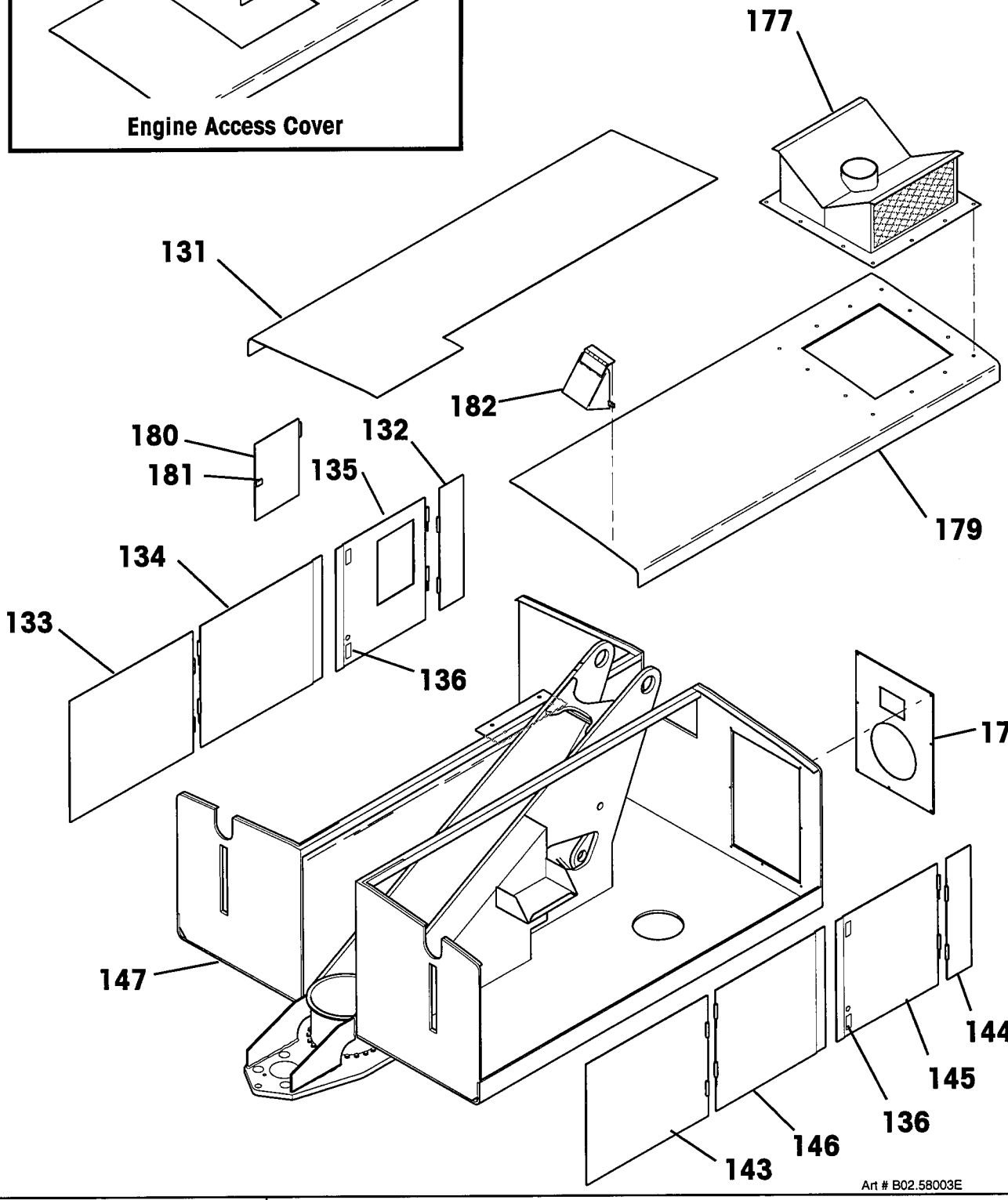
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
176			VENT, ENGINE AIR (on front of superstructure)	
	2154190		used with Ford LSG 423 engine	1
	2180050		used with Isuzu C-240 engine	1
	call Simon		used with engines other than those listed above.	1
177			VENT, ENGINE AIR (Pagoda. On roof)	
	2180400		used with Isuzu C-240 engine	1
	call Simon		used with engines other than Isuzu C-240.	1
178			COVER, ENGINE ACCESS (on roof)	
	2157970		used with Ford LSG 423 engine	1
	call Simon		used with engines other than Ford LSG 423.	1
179			PANEL, ROOF (Right)	
	2104270		without engine-specific cutouts	1
	2337020		used with Ford LSG 423 engine	1
	2337060		used with Deutz F4L 912 engine	1
	2337040		used with Deutz F4L 1011 engine	1
	call Simon		used with engines other than those listed above.	1
180	call Simon		DOOR, GROUND CONTROL ACCESS (option)	1
181	10-004900		LATCH, FLUSH (Locking)	1
182	2181240		COVER, HYDRAULIC TANK FILLER (option)	1

TITLE SUPERSTRUCTURE ASSEMBLY, MP 60 (ELECTRO-PROPORTIONAL)

SECTION B02. | PLATE NO. 58 | PAGE 08 | REV. - | DATED 30 DEC. 1996 | PART NO.

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Art # B02.58003E

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TITLE SUPERSTRUCTURE ASSEMBLY, MP 60 (ELECTRO-PROPORTIONAL)

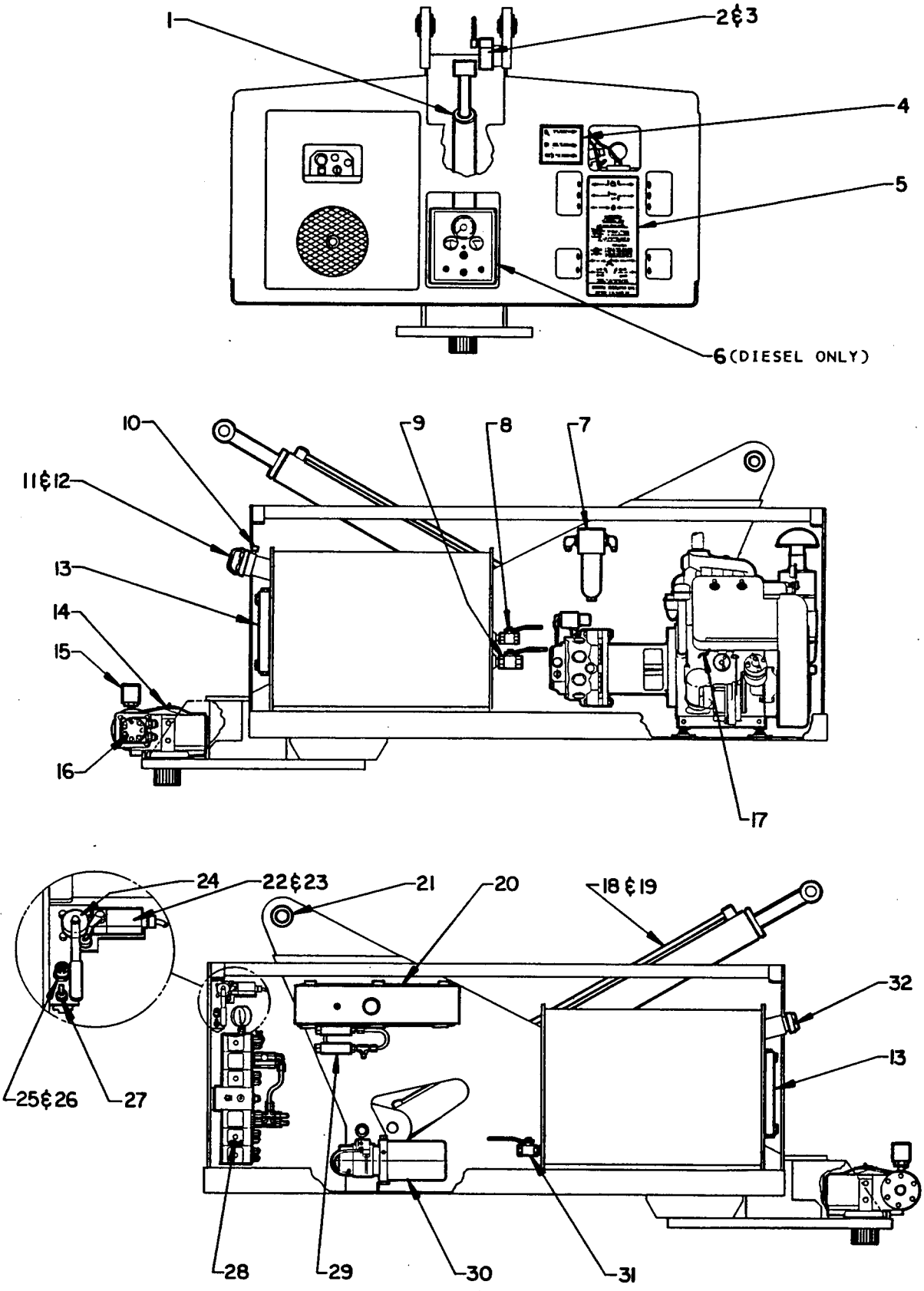
PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
	-	30 DEC. 1996	B02.	58	08

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	10-020400		DECAL, EMERGENCY CONTROLS	1
5	10-019400		DECAL, GROUND CONTROLS (500 LB. CAP.)	1
6	SEE INDEX	C7	ENGINE CONTROL BOX (DIESEL ONLY)	1
7	SEE INDEX	D11	HIGH PRESSURE FILTER	1
8	01-020600		SHUTOFF VALVE, 3/4"	1
9	01-002700		SHUTOFF VALVE, 1-1/4"	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	SEE INDEX	F2	SWING REDUCER	1
15	01-001400		SHUTTLE VALVE	1
16	SEE INDEX	D6	SWING MOTOR	1
17	SEE INDEX	C4	ENGINE ASSEMBLY	1
18	SEE INDEX	D9	LIFT CYLINDER	1
19	04-021402		HOLDING VALVE, LIFT CYLINDER	1
20	SEE INDEX	C3	GROUND CONTROL BOX	1
21	08-000800		BEARING, BOOM PIVOT	2
22	03-021400		LIMIT SWITCH	1
23	03-026300		LEVER ARM, LIMIT SWITCH	1
24	SEE INDEX	D5	GROUND HPC VALVE	1
25	03-021200		PUSH BUTTON (EMERGENCY PUMP)	1
26	03-025000		CONTACT BLOCK	1
27	03-020700		TOGGLE SWITCH, 4PDT (GROUND OVERRIDE)	1
28	SEE INDEX	C2	VALVE BANK ASSEMBLY	1
29	01-008900-1		RELIEF VALVE, LEVELING (SBD-201515-4)	2
30	01-020200	D7.1	EMERGENCY PUMP	1
31	01-032800		SHUTOFF VALVE, 1/4"	1
32	10-001900		FILLER CAP, FUEL	1

DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY	CAA-207261-4

B2.7



0285

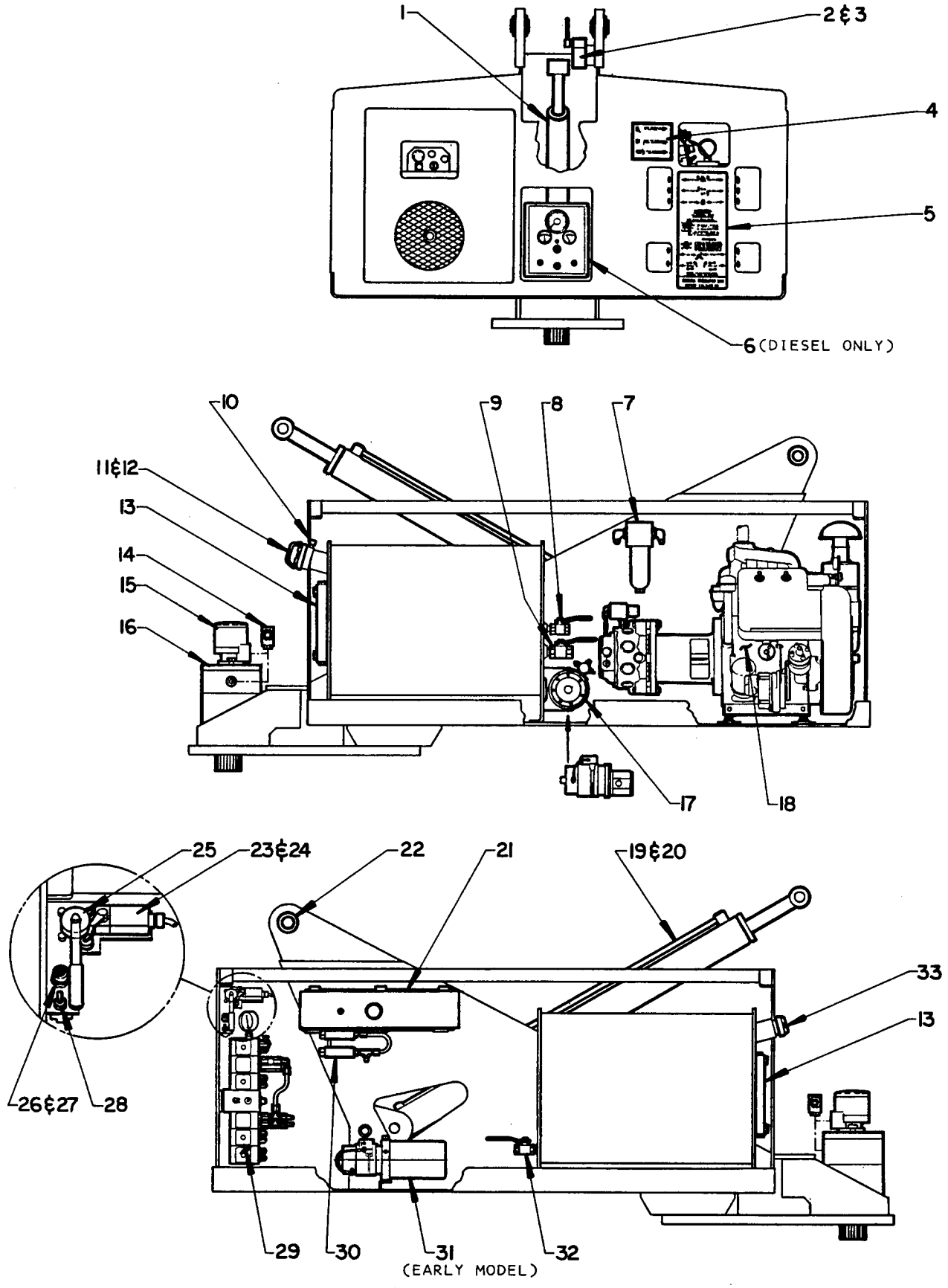
DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY	CAA-207261-4

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	10-020400		DECAL, EMERGENCY CONTROLS	1
5	10-019400		DECAL, GROUND CONTROLS, (500 LB. CAP.)	1
6	SEE INDEX	C7	ENGINE CONTROL BOX (DIESEL ONLY)	1
7	SEE INDEX	D11	HIGH PRESSURE FILTER	1
8	01-020600		SHUTOFF VALVE, 3/4"	1
9	01-002700		SHUTOFF VALVE, 1-1/4"	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	1
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	SEE INDEX	C3	GROUND CONTROL BOX	1
22	08-000800		BEARING, BOOM PIVOT	2
23	03-021400		LIMIT SWITCH	1
24	03-026300		LEVER ARM, LIMIT SWITCH	1
25	SEE INDEX	D5	GROUND HPC VALVE	1
26	03-021200		PUSH BUTTON (EMERGENCY PUMP)	1
27	03-025000		CONTACT BLOCK	1
28	03-020700		TOGGLE SWITCH 4PDT (GROUND OVERRIDE)	1
29	SEE INDEX	C2	VALVE BANK ASSEMBLY	1
30	01-008900-1		LEVELING RELIEF VALVE (SBD-201515-4)	2
31	01-020200	D7.1	EMERGENCY PUMP (TO 04/84)	1
32	01-032800		SHUTOFF VALVE, 1/4"	1
33	10-001900		FILLER CAP, FUEL	1

DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY	CAA-207262-1

B2.8



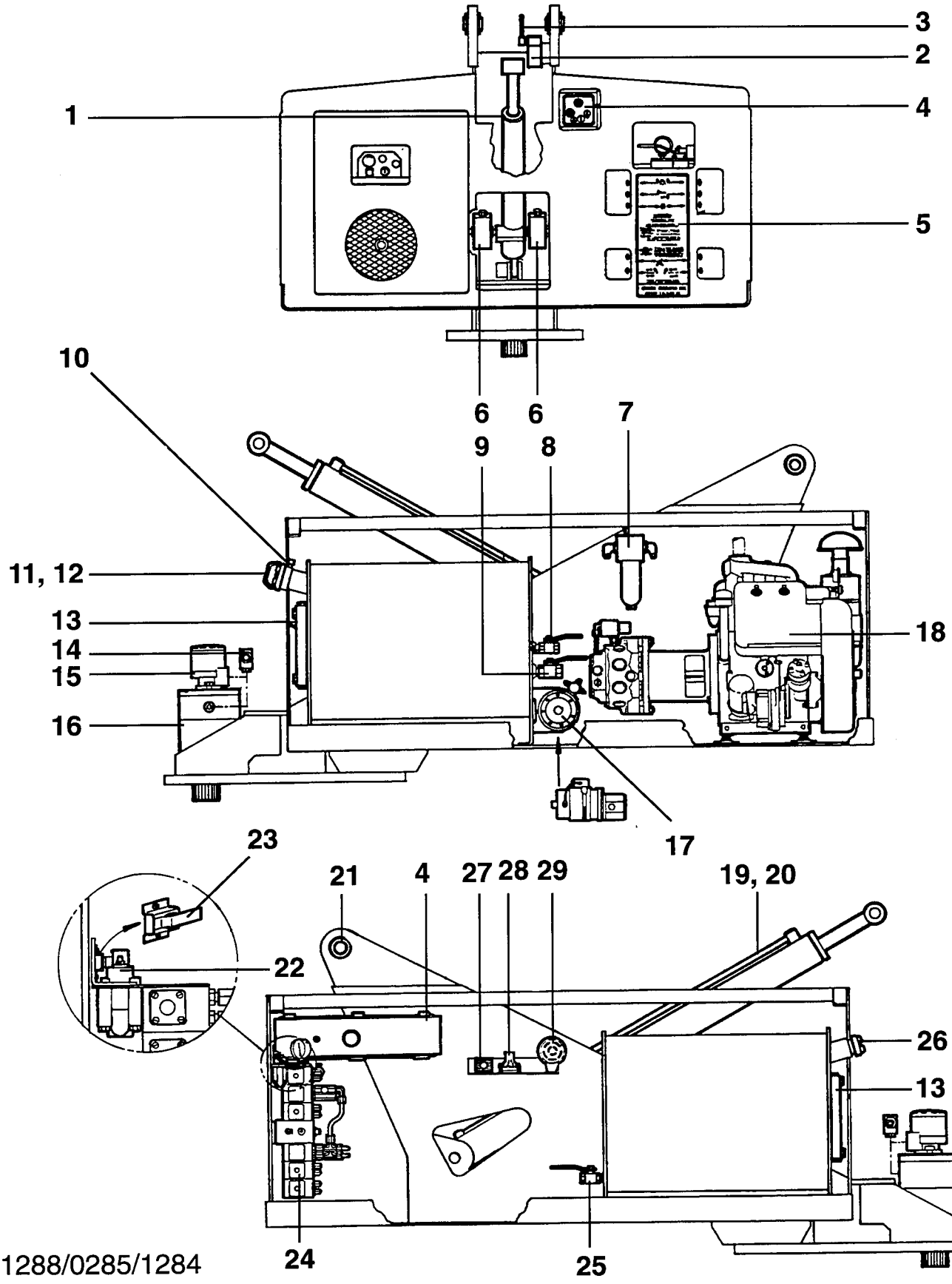
0285

DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY	CAA-207262-1

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

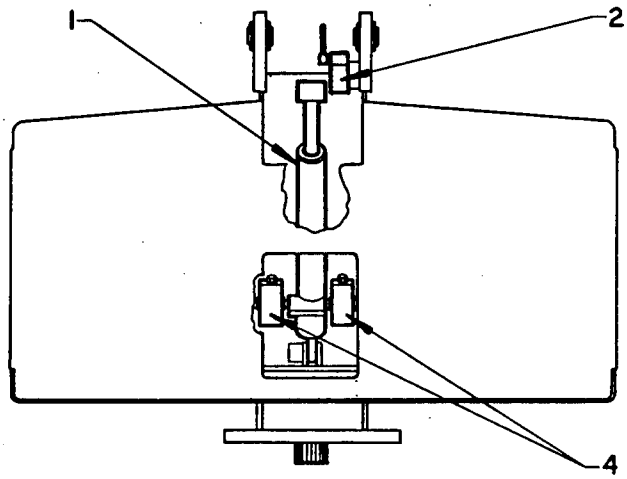


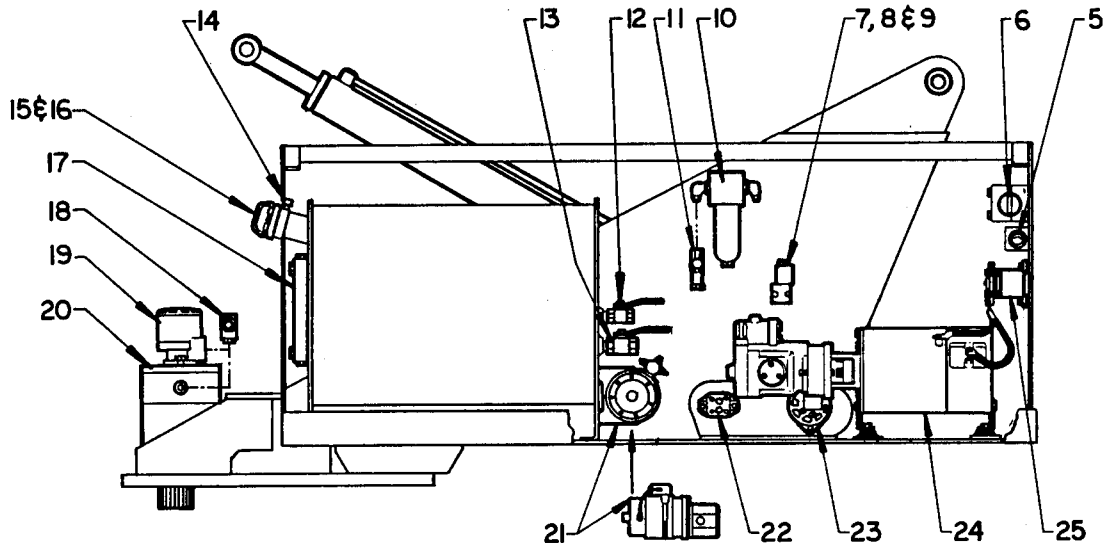
TITLE	SUPERSTRUCTURE ASSEMBLY		
SIMON AERIALS INC. REV. 09/08/91	PART NO. 207263-6	PLATE NO. B02.09	

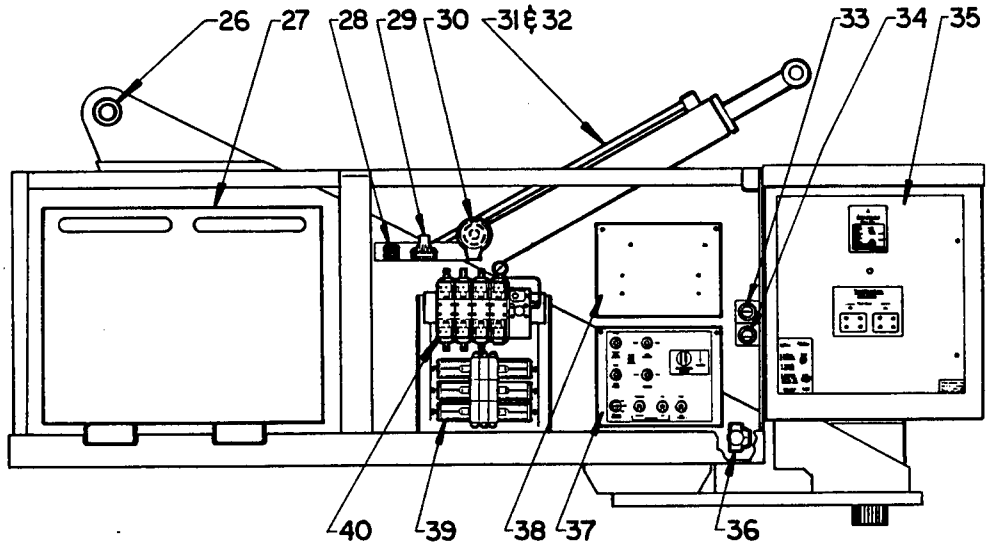
PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SEE INDEX	D10	MASTER LEVELING CYLINDER	1
2	03-021400		LIMIT SWITCH	1
3	03-026200		LEVER ARM, LIMIT SWITCH	1
4	01-008900		LEVELING RELIEF VALVE	2
5	03-030400		AMMETER	1
6			FUSE, 600 AMP	1
7	01-013700		SOLENOID CART. VALVE, PUMP UNLOADING	1
8	01-013900		SOLENOID VALVE BLOCK	1
9	01-016300		RELIEF VALVE (NOT SHOWN)	1
10	SEE INDEX	D11	HIGH PRESSURE FILTER	1
11	01-013100		PRESS. COMPENSATED NEEDLE VALVE	1
12	01-020600		SHUTOFF VALVE, 3/4	1
13	01-002700		SHUTOFF VALVE, 1-¼	1
14	01-008200		VENT PLUG W/FILTER	1
15	10-002100		FILLER CAP, HYDRAULIC OIL	1
16	10-001000		STRAINER	1
17	SEE INDEX	D12	SIGHT GAUGE	1
18	01-001400		SHUTTLE VALVE	1
19	SEE INDEX	D6	SWING MOTOR	1
20	SEE INDEX	F2	SWING REDUCER	1
21	SEE INDEX	D7	EMERGENCY PUMP	1
22	01-018200		HYDRAULIC MOTOR	1
23	09-020900		ALTERNATOR, 55 AMP	1
24	SEE INDEX	C5	MOTOR ASSEMBLY	1
25	03-053300		CONTACTOR	2
25A			CONTACT PLATE FOR CONTACTOR	2
26	08-013300		BEARING, BOOM PIVOT	2
27	03-039600		STORAGE BATTERY	1
28	03-038300		MOVEMENT ALARM	1
29	03-038100		TILT ALARM	1
30	03-036100		HORN	1
31	SEE INDEX	D9	LIFT CYLINDER	1
32	04-021402		HOLDING VALVE, LIFT CYLINDER	1
33	03-039501		BATTERY INDICATOR GAUGE	1
34	03-030500		HOURMETER	1
35	03-400100		BATTERY CHARGER	1
36	01-004500		SELECTOR VALVE, TOW-STEER	1
37	SEE INDEX	C3	GROUND CONTROL BOX	1
38	SEE INDEX	C3	GROUND CONTROL BOX (CONTROL CARD BOX)	1
39	SEE INDEX	C2	VALVE BANK (ROTATE, LEVEL, STEER)	1
40	SEE INDEX	C2	VALVE BANK (DRIVE, EXTEND, LIFT, SWING)	1

DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY	CAA-208498-9







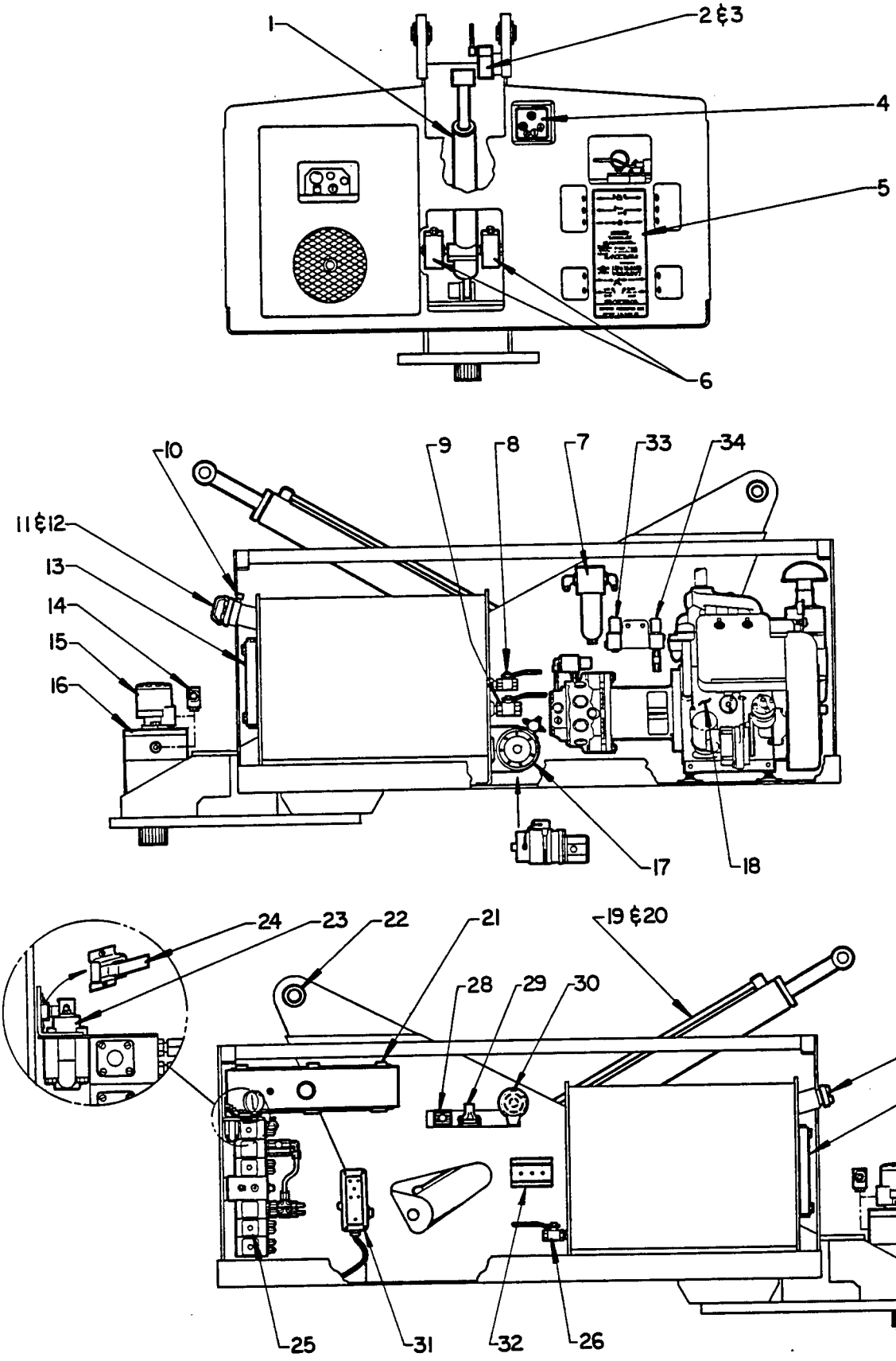
0885/0885

DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY	CAA-208498-9

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				
5	10-019400		DECAL, GROUND CONTROLS (500 LB. CAP.)	1
6	01-008900		LEVELING RELIEF VALVE	2
7	SEE INDEX	D11	HIGH PRESSURE FILTER	1
8	01-020600		SHUTOFF VALVE, 3/4"	1
9	01-002700		SHUTOFF VALVE, 1-1/4"	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	1
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	SEE INDEX	C3	GROUND CONTROL BOX	1
22	08-013300		BEARING, BOOM PIVOT	1
23	SEE INDEX	D5	GROUND HPC VALVE	1
24	03-026700		LIMIT SWITCH	1
25	SEE INDEX	C2	VALVE BANK ASSEMBLY	1
26	01-032800		SHUTOFF VALVE, 1/4"	1
27	10-001900		FILLER CAP, FUEL	1
28	03-038300		MOVEMENT ALARM	1
29	03-038100		TILT ALARM	1
30	03-036100		HORN	1
31	SEE INDEX	C6	REMOTE CONTROL (PENDANT)	1
32	03-067600		BATTERY SPLITTER (ISOLATOR)	1
33	01-037100		SOLENOID VALVE, LOW SPEED	1
34	01-034400		SOLENOID VALVE, HI SPEED	1

DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY	



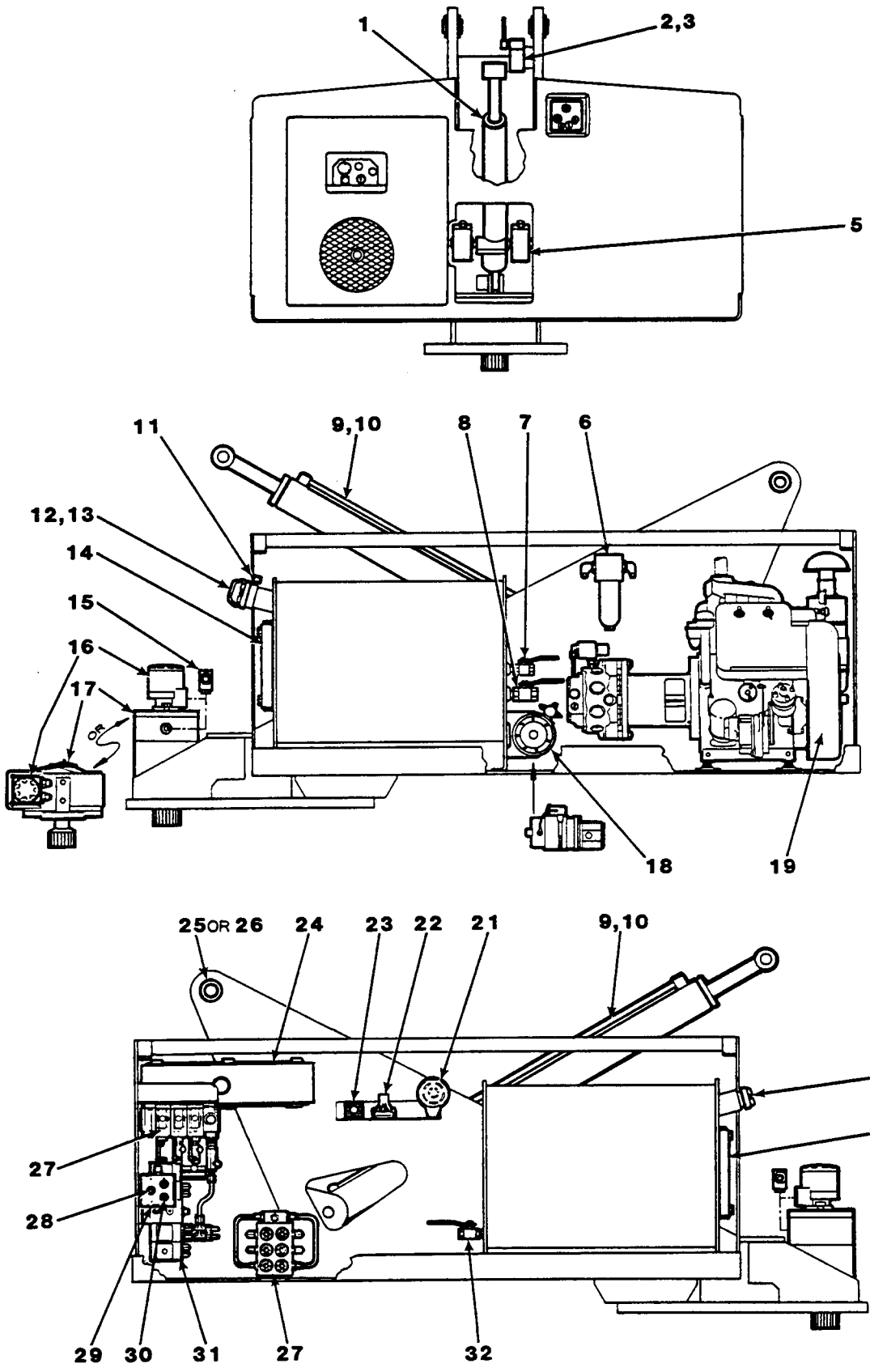
0886/0686

DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY	

PARTS LIST

ITEM	PART NO.	SEC.	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				
5	01-008900		RELIEF VAVLE, LEVELING	2
6	SEE INDEX	D11	HIHG PRESSURE FILTER	1
7	01-020600		SHUTOFF VALVE, 3/4"	1
8	01-002700		SHUTOFF VALVE, 1-1/4"	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	10-002100		FILLER CAP, HYDRAULIC OIL	1
13	11-001000		STRAINER	1
14	SEE INDEX	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	SEE INDEX	C4	ENGINE ASSMEMBLY	1
20	10-001900		FILLER CAP, FUEL	1
21	03-036100		HORN	1
22	03-038100		TILT ALARM	1
23	03-012800		MOVEMENT ALARM	1
24	SEE INDEX	C3	GROUND CONTROL BOX	1
25	08-000800		BEARING, BOOM PIVOT (MP 40, MP 50)	2
26	08-013300		BEARING, BOOM PIVOT (MP 60)	2
27	SEE INDEX	C2	VALVE BANK ASS'Y. (LIFT, SWING, EXTEND)	1
28	03-020600		TOGGLE SWITCH (PUMP - AUX., MAIN)	1
29	03-041100		SWITCH BOX (INCL. 03-419100 COVER)	1
30	03-020500		TOGGLE SWITCH (DRIVE, STEER)	2
31	SEE INDEX	C2	VALVE BANK ASS'Y. (DRIVE, STEER)	1
32	01-032800		SHUTOFF VALVE, 1/4"	1

DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY (FULL HYDRAULIC)	



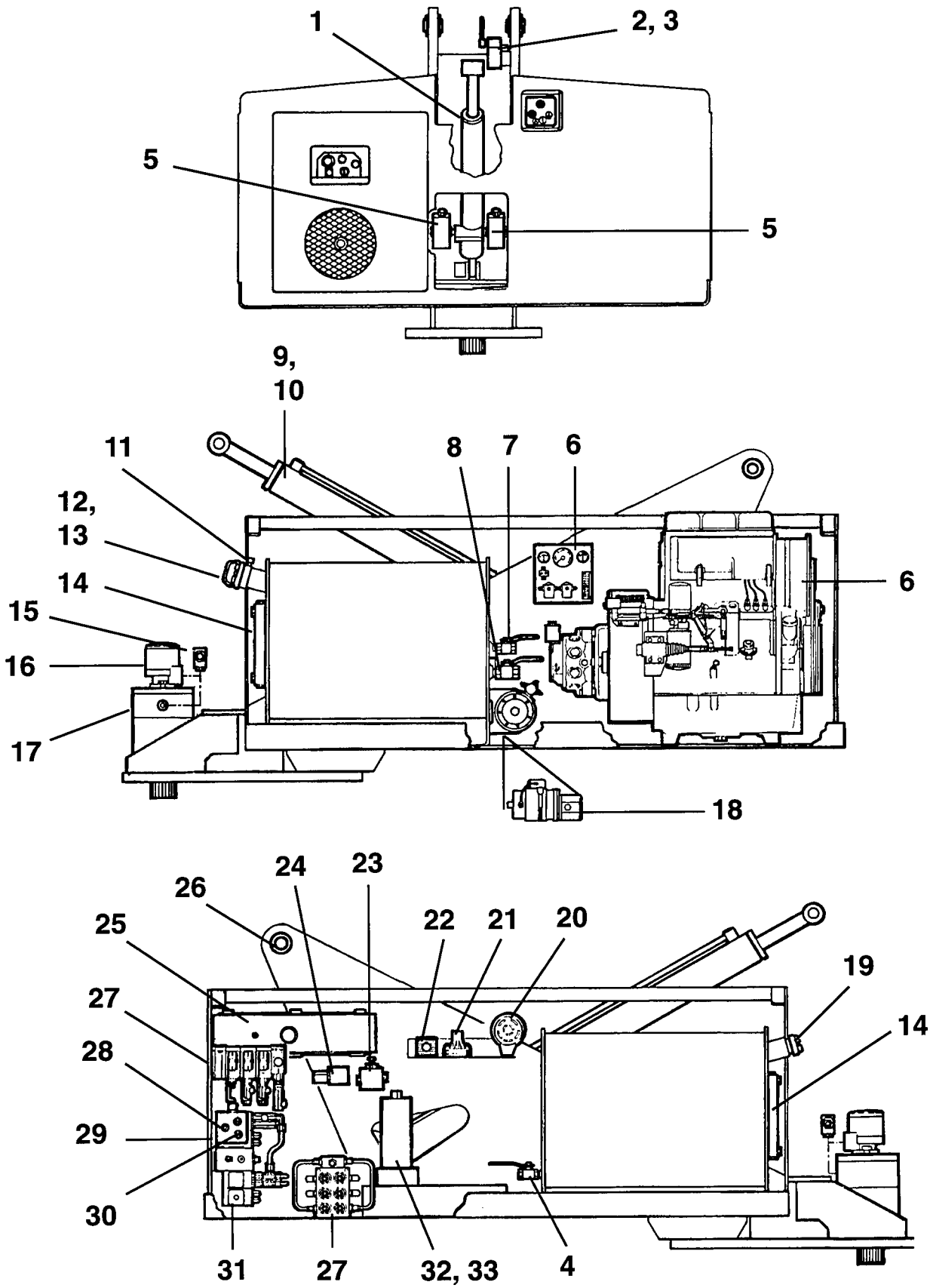
0287/1086

DESCRIPTION	PART NO.
SUPERSTRUCTURE ASSEMBLY (FULL HYDRAULIC)	

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.

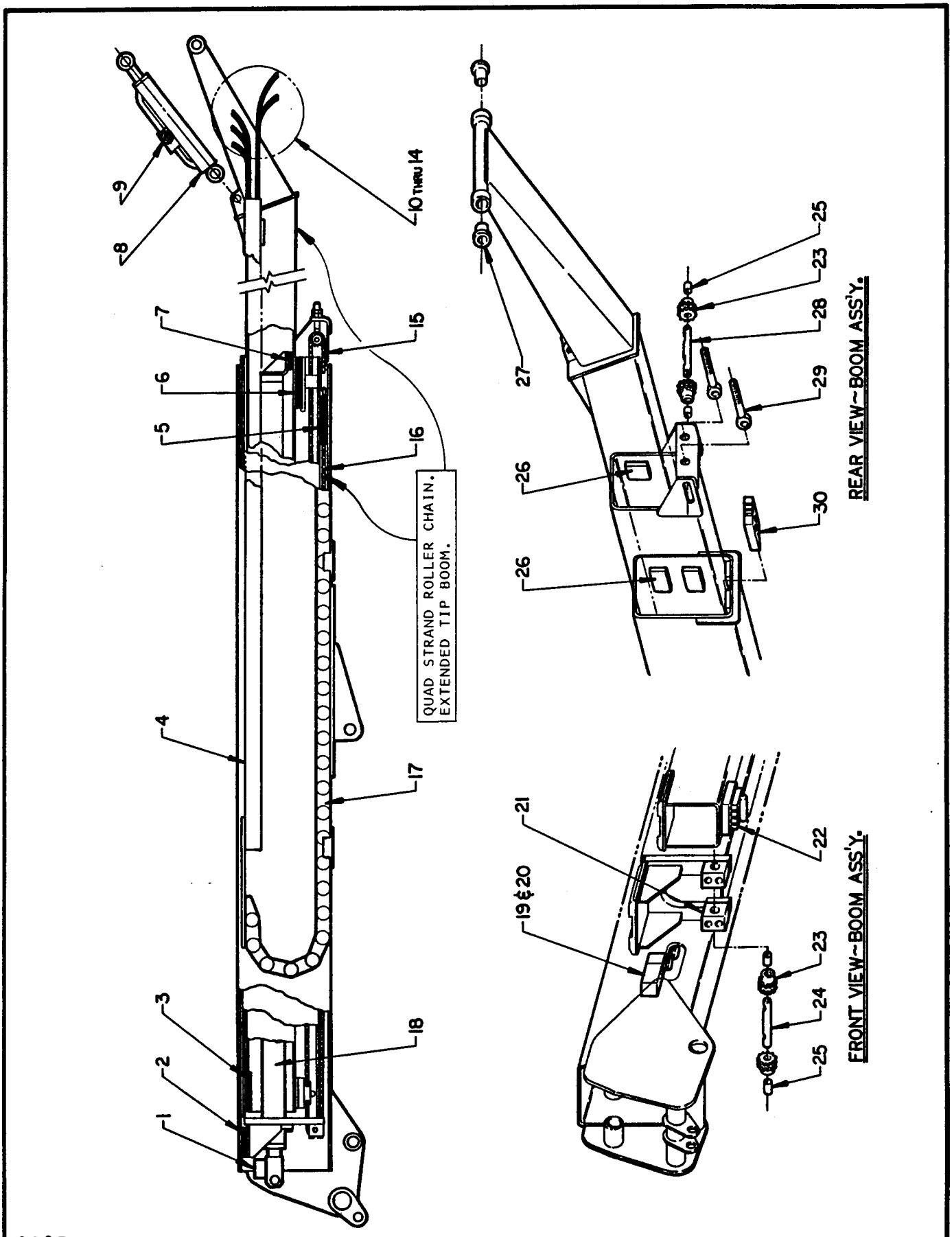


TITLE	SUPERSTRUCTURE ASSEMBLY (FULL HYDRAULIC)		
SIMON AERIALS INC.	REV. 09/24/91	PART NO.	PLATE NO. B02.21

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-003600		HOLDING VALVE, EXTEND CYLINDER	1
2	SBA-204647-9		SLIDER PAD, MID BOOM (TOP-FRONT)	1
3	SBA-204705-4		SLIDER PAD, TIP BOOM (TOP-FRONT)	1
4	SDW-202298-1*		MOVING ANCHOR (*269.5" LG.)	1
5	SBA-204704-5		SLIDER PAD, BASE BOOM (BOTTOM-REAR)	2
6	SBA-204680-8		SLIDER PAD, MID BOOM (BOTTOM-REAR)	1
7	SBD-201293-3		SLIDER PAD, EXTEND CYLINDER	1
8	SEE INDEX	D20	SLAVE LEVELING CYLINDER	1
9	SEE INDEX	D21	HOLDING VALVE, SLAVE CYLINDER	1
10			HYDRAULIC HOSE, HPC PRESSURE	1
11			HYDRAULIC HOSE, HPC RETURN	1
12			HYDRAULIC HOSE, SLAVE CYLINDER ROD	1
13			HYDRAULIC HOSE, SLAVE CYLINDER CASE	1
14	03-008500		MULTI CONDUCTOR CABLE	80FT.
15	08-003200		ROLLER CHAIN, REAR (OUTSIDE)	1
16	08-003200		ROLLER CHAIN, FRONT (INSIDE)	1
17	SEE INDEX	F3	HOSE TRACK	1
18	SEE INDEX	D19	EXTEND CYLINDER	1
19	03-021400		LIMIT SWITCH	1
20	03-026000		LEVER ARM, LIMIT SWITCH	1
21	SBD-201291-1		ANCHOR BLOCK, CHAIN SPROCKET PIN	2
22	SCW-201903-5		FRONT CHAIN ANCHOR BLOCK	1
23	SAA-204702-3		SPROCKET ASSEMBLY (INCLUDES ITEM 25)	4
24	SBD-201290-2		FRONT SPROCKET PIN	1
25	08-004300		SLEEVE BEARING	4
26	SBA-204648-4		SIDE SLIDER PAD	6
27	08-002200		FLANGE BUSHING	2
28	SBD-201292-8		REAR SPROCKET PIN	1
29	SBD-201790-7		CHAIN TAKE-UP SCREW	2
30	SBD-201788-4		REAR CHAIN ANCHOR BLOCK	1
31	08-004600		MASTER LINK ASSEMBLY (NOT SHOWN)	4REF.

DESCRIPTION	PART NO.
BOOM ASSEMBLY	CAA-207252-0



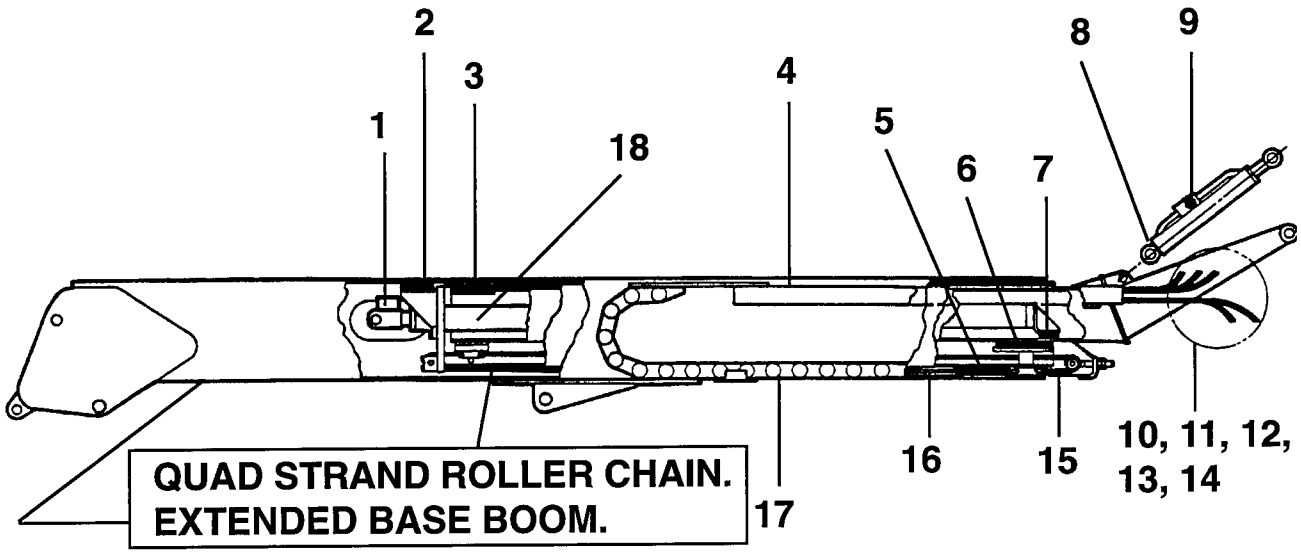
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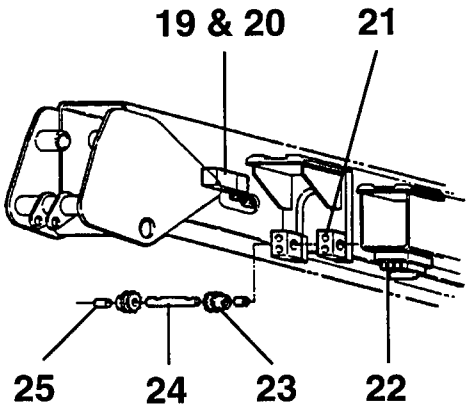
DESCRIPTION	PART NO.
BOOM ASSEMBLY	CAA-207252-0

PARTS LIST

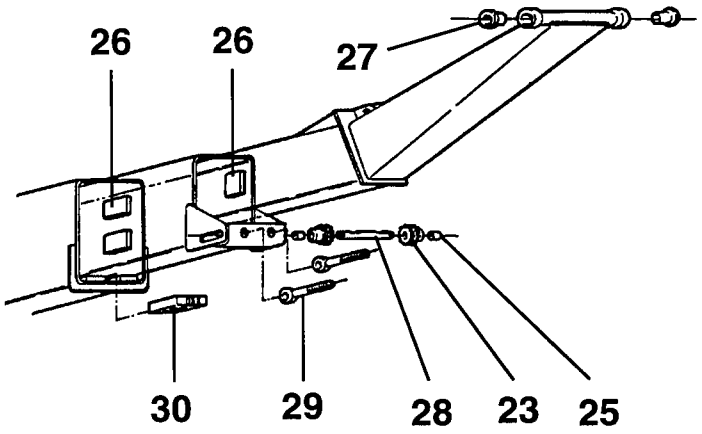
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-003600		VALVE, EXTEND CYLINDER HOLDING	1
2	204647-9		PAD, MID BOOM WEAR (Top front) (Slider pad)	1
3	204705-4		PAD, TIP BOOM WEAR (Top front) (Slider pad)	1
4	202298-1*		ANCHOR, MOVING (*269.5" Long)	1
5	204704-5		PAD, BASE BOOM WEAR (Bottom rear) (Slider pad)	2
6	204680-8		PAD, MID BOOM WEAR (Bottom rear) (Slider pad)	1
7	201293-3		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)	80 ft.
15	08-003200		CHAIN, REAR (Outside)	1
16	08-003200		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	201291-1		BLOCK, ANCHOR (Chain sprocket pin)	2
22	201903-5		BLOCK, CHAIN ANCHOR (front)	1
23	204702-3		SPROCKET ASSEMBLY (includes Bearing, item 25)	4
24	201290-2		PIN, FRONT SPROCKET	1
25	08-004300		BEARING, SLEEVE (also part of Sprocket Ass'y., item 23)	4
26	204648-4		PAD, BOOM WEAR (Side) (Slider pad)	6
27	08-002200		BUSHING, FLANGED (Platform pivot)	2
28	201292-8		PIN, REAR SPROCKET	1
29	201790-7		SCREW, CHAIN TAKE UP	2
30	201788-4		BLOCK, CHAIN ANCHOR (rear)	1
31	08-004600		LINK ASSEMBLY, MASTER (not shown)	4

TITLE	BOOM ASSEMBLY		
PLATE NO. B03.07	**SIMON AERIALS INC.**	10/30/90	PART NO. CAA-207253-5





FRONT VIEW-BOOM ASSEMBLY



REAR VIEW-BOOM ASSEMBLY

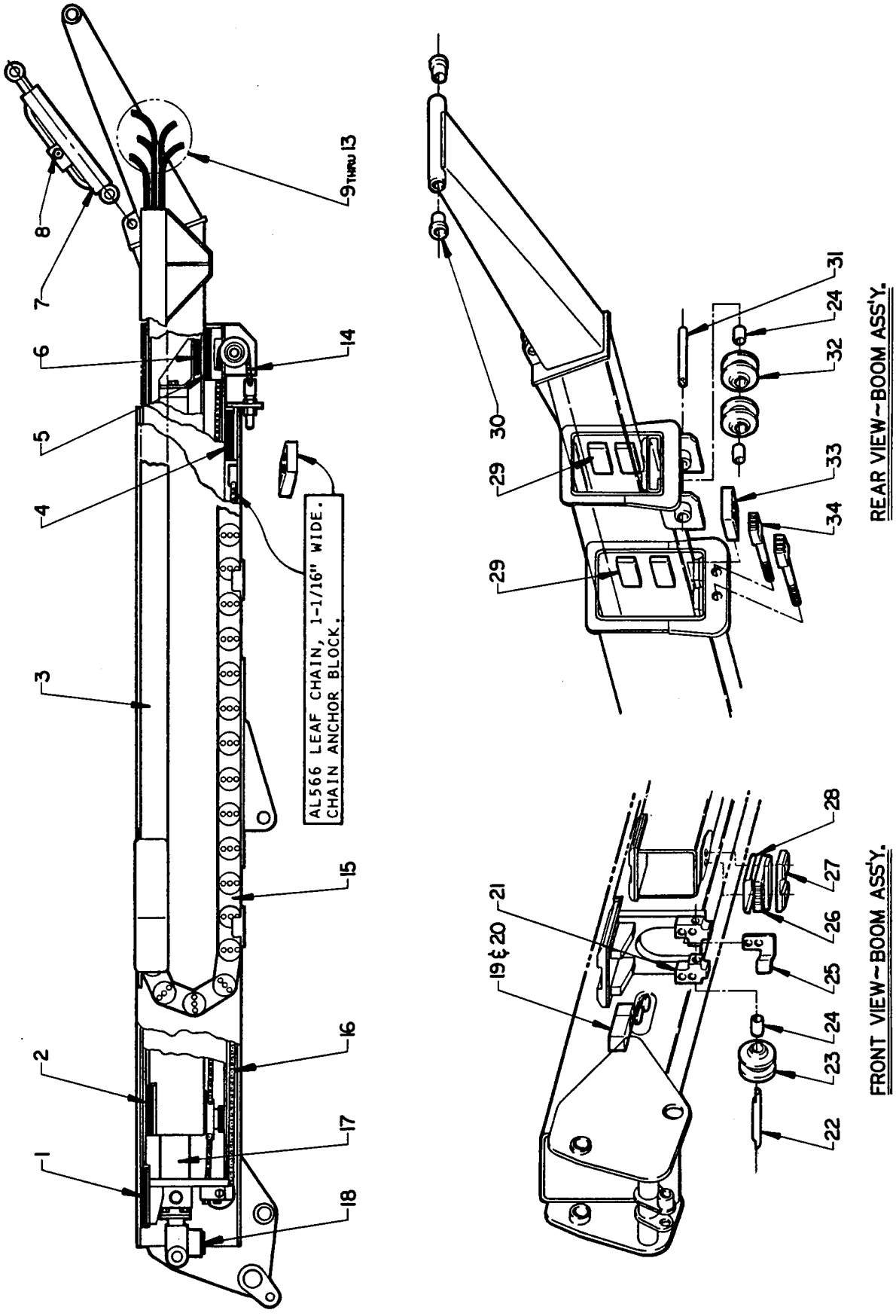
TITLE	BOOM ASSEMBLY		
SIMON AERIALS INC. 10/30/90	PART NO. CAA-207253-5	PLATE NO. B03.07	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SCD-204329-6		SLIDER PAD, MID BOOM (TOP-FRONT)	1
2	SCD-204328-9		SLIDER PAD, TIP BOOM (TOP-FRONT)	1
3			MOVING ANCHOR	1
4	SBA-204704-5		SLIDER PAD, BASE BOOM (REAR-BOTTOM)	2
5	SBA-204680-8		SLIDER PAD, MID BOOM (REAR-BOTTOM)	1
6	SBD-201293-3		SLIDER PAD, EXTEND CYLINDER	1
7	SEE INDEX	D20	SLAVE LEVELING CYLINDER	1
8	SEE INDEX	D21	HOLDING VALVE, SLAVE LEVELING CYLINDER	1
9			HYDRAULIC HOSE, HPC PRESSURE	1
10			HYDRAULICHOSE, HPC RETURN	1
11			HYDRAULIC HOSE, SLAVE CYLINDER ROD	1
12			HYDRAULIC HOSE, SLAVE CYLINDER CASE	1
13	03-085000		MULTI CONDUCTOR CABLE	80FT.
14	08-012000		LEAF CHAIN, REAR (OUTSIDE)	2
15	SEE INDEX	F3	HOSE TRACK	1
16	03-012100		LEAF CHAIN, FRONT (INSIDE)	1
17	SEE INDEX	D19	EXTEND CYLINDER	1
18	01-003600		HOLDING VALVE, EXTEND CYLINDER	1
19	03-021400		LIMIT SWITCH	1
20	03-026000		LEVER ARM, LIMIT SWITCH	1
21	SBD-203772-9		ANCHOR BLOCK, SHEAVE PIN	2
22	SAD-203763-9		PIN, FRONT CHAIN SHEAVE	1
23	SCD-203802-5		SHEAVE, FRONT CHAIN	1
24	08-009000		SLEEVE BEARING (DRILL GREASE HOLE AT ASSEMBLY)	3
25	SAD-200629-9		GUARD PLATE	1
26	SBW-205844-5		CHAIN ANCHOR BLOCK, FRONT	1
27	SBD-201293-3		SLIDER PAD, CHAIN ANCHOR	1
28			RETAINER PLATE	1
29	SBA-204648-4		SIDE SLIDER PAD	8
30	08-002200		FLANGE BEARING	2
31	SBD-203770-3		PIN, REAR CHAIN SHEAVE	1
32	SCD-203803-0		SHEAVE, REAR CHAIN	2
33	SBD-205846-5		CHAIN ANCHOR BLOCK, REAR	1
34	SBD-205847-8		CHAIN ADJUSTING SCREW	2
35	SAD-205848-3		CHAIN ANCHOR PIN, 4" LG. (NOT SHOWN)	3
36	SAD-205849-0		CHAIN ANCHOR PIN, 2" LG. (NOT SHOWN)	2
37	07-070305		COTTER KEY, CHAIN PIN (NOT SHOWN)	10

DESCRIPTION	PART NO.
BOOM ASSEMBLY	CAA-207254-8

B3.8



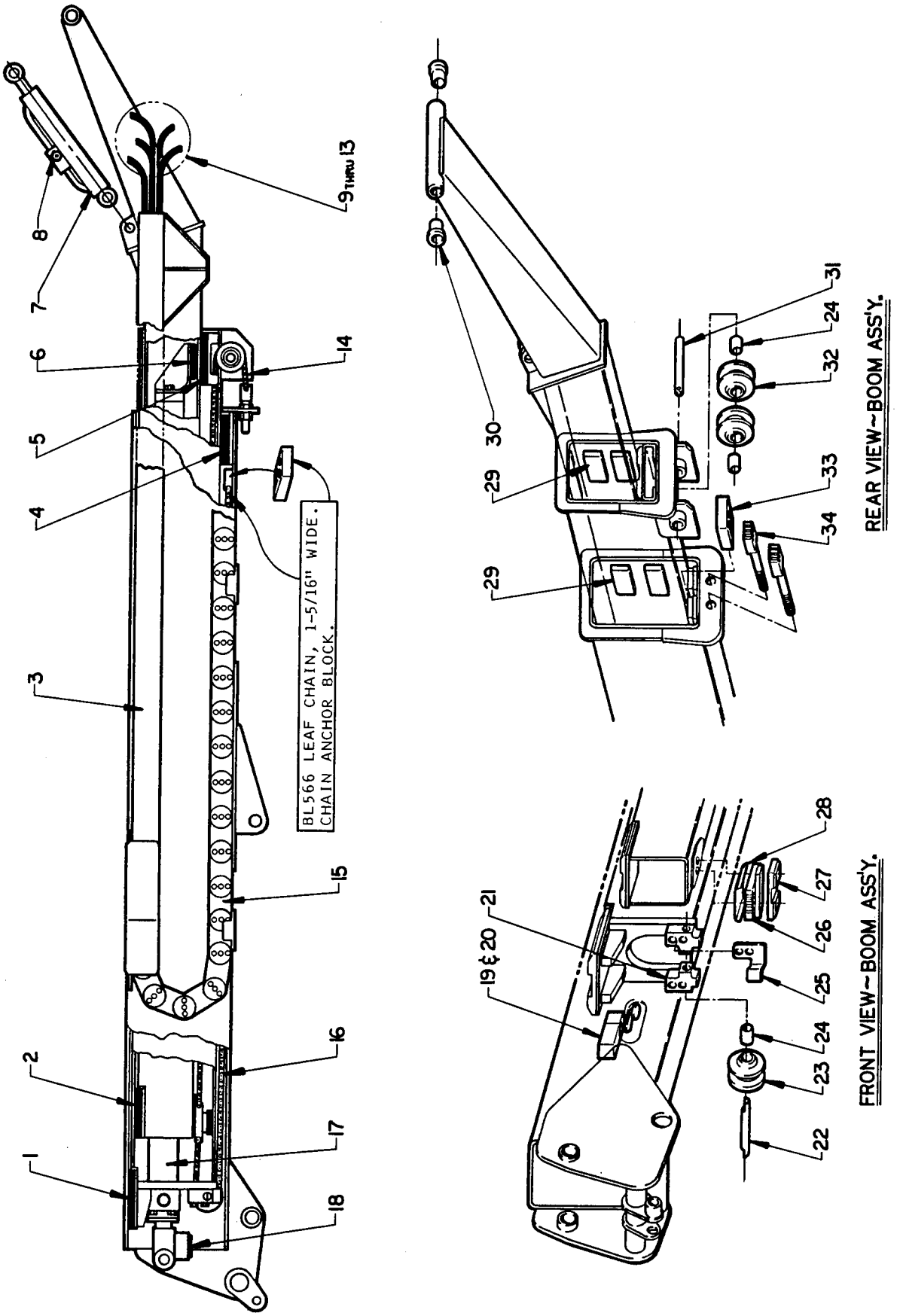
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DESCRIPTION	PART NO.
BOOM ASSEMBLY	CAA-207254-8

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SCD-204329-6		SLIDER PAD, MID BOOM (TOP-FRONT)	1
2	SCD-204328-9		SLIDER PAD, TIP BOOM (TOP-FRONT)	1
3			MOVING ANCHOR	1
4	SBA-204704-5		SLIDER PAD, BASE BOOM (REAR-BOTTOM)	2
5	SBA-204680-8		SLIDER PAD, MID BOOM (REAR-BOTTOM)	1
6	SBD-201293-3		SLIDER PAD, EXTEND CYLINDER	1
7	SEE INDEX	D20	SLAVE LEVELING CYLINDER	1
8	SEE INDEX	D21	HOLDING VALVE, SLAVE LEVELING CYL.	2
9			HYDRAULIC HOSE, HPC PRESSURE	1
10			HYDRAULIC HOSE, HPC RETURN	1
11			HYDRAULIC HOSE, SLAVE CYLINDER ROD	1
12			HYDRAULIC HOSE, SLAVE CYLINDER CASE	1
13	03-085000		MULTI CONDUCTOR CABLE	80FT.
14	08-012200		LEAF CHAIN, REAR (OUTSIDE)	2
15	SEE INDEX	F3	HOSE TRACK	1
16	03-012300		LEAF CHAIN, FRONT (INSIDE)	1
17	SEE INDEX	D19	EXTEND CYLINDER	1
18	01-003600		HOLDING VALVE, EXTEND CYLINDER	1
19	03-021400		LIMIT SWITCH	1
20	03-026000		LEVER ARM, LIMIT SWITCH	1
21	SBD-203772-9		ANCHOR BLOCK, SHEAVE PIN	2
22	SAD-203763-9		PIN, FRONT CHAIN SHEAVE	1
23	SCD-203802-5		SHEAVE, FRONT CHAIN	1
24	08-009000		SLEEVE BEARING (DRILL GREASE HOLE AT ASSEMBLY)	3
25	SAD-200629-9		GUARD PLATE	1
26	SBW-204198-6		CHAIN ANCHOR BLOCK, FRONT	1
27	SBD-201293-3		SLIDER PAD, CHAIN ANCHOR	1
28			RETAINER PLATE	1
29	SBA-204648-4		SIDE SLIDER PAD	8
30	08-002200		FLANGE BEARING	2
31	SBD-203770-3		PIN, REAR CHAIN SHEAVE	1
32	SCD-203803-0		SHEAVE, REAR CHAIN	2
33			CHAIN ANCHOR BLOCK, REAR	1
34	SAD-203808-5		CHAIN ADJUSTING SCREW	2
35	SAD-203762-4		CHAIN ANCHOR PIN, 4" LG. (NOT SHOWN)	3
36	SAD-203768-4		CHAIN ANCHOR PIN, 2" LG. (NOT SHOWN)	2
37	07-070305		COTTER KEY, CHAIN PIN (NOT SHOWN)	10

DESCRIPTION	PART NO.
BOOM ASSEMBLY	CAA-207257-5



0185

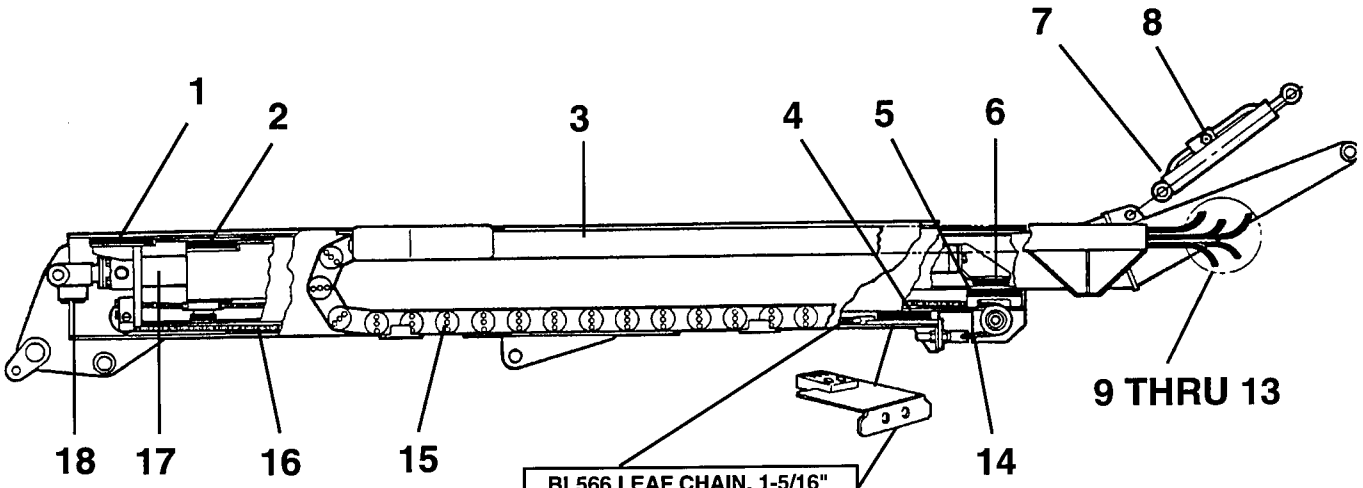
DESCRIPTION	PART NO.
BOOM ASSEMBLY	CAA-207257-5

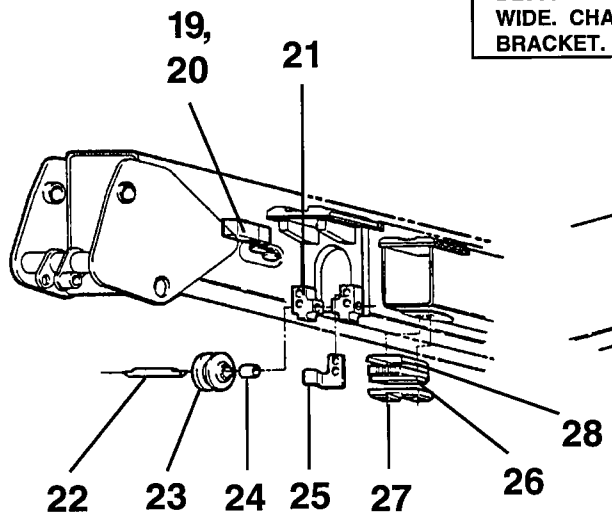
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	204329-6		SLIDER PAD, MID BOOM (Top-front)	1
2	204328-9		SLIDER PAD, TIP BOOM (Top-front)	1
3			MOVING ANCHOR	1
4	204704-5		SLIDER PAD, BASE BOOM (Rear-bottom) (Used on machines up to S/N D0693)	2
	208371-7		SLIDER PAD, BASE BOOM (Rear-bottom) (Used on machines S/N D0694 and up)	1
5	207299-9		SLIDER PAD, MID BOOM (Rear-bottom)	1
6	201293-3		SLIDER PAD, EXTEND CYLINDER	1
7	See index	D20	SLAVE LEVELING CYLINDER	1
8	See index	D21	HOLDING VALVE, SLAVE LEVEL CYLINDER	2
9			HYDRAULIC HOSE, HPC PRESSURE	1
10			HYDRAULIC HOSE, HPC RETURN	1
11			HYDRAULIC HOSE, SLAVE CYLINDER ROD	1
12			HYDRAULIC HOSE, SLAVE CYLINDER CASE	1
13	03-085000		MULTI CONDUCTOR CABLE	80 ft
14	08-012200		LEAF CHAIN, REAR (Outside)	2
15	See index	F3	HOSE TRACK	1
16	03-012300		LEAF CHAIN, FRONT (Inside)	1
17	See index	D19	EXTEND CYLINDER	1
18	01-003600		HOLDING VALVE, EXTEND CYLINDER	1
19	03-021400		LIMIT SWITCH	1
20	03-026000		LEVER ARM, LIMIT SWITCH	1
21	203772-9		ANCHOR BLOCK, CHAIN SHEAVE PIN	2
22	203763-9		PIN, FRONT CHAIN SHEAVE	1
23	203802-5		SHEAVE, FRONT CHAIN	1
24	08-009000		SLEEV BEARING (Drill grease hole at ass'y)	3
25	200629-9		GUARD PLATE	1
26	204198-6		CHAIN ANCHOR BLOCK	1
27	201293-3		SLIDER PAD, CHAIN ANCHOR	1
28			RETAINER PLATE	1
29	204648-4		SIDE SLIDER PAD	8
30	08-002200		FLANGE BEARING	2
31	206980-3		PIN, REAR CHAIN SHEAVE	1
32	203803-0		SHEAVE, REAR CHAIN	2
33	203808-5		CHAIN ADJUSTING SCREW	2
34	206059-6		CHAIN ANCHOR BRACKET (USED ON MACHINES UP TO S/N D0693)	1
	209749-7		CHANI ANCHOR BRACKET (USED ON MACHINES S/N D0694 AND UP)	1
35	203762-4		CHAIN ANCHOR PIN, 4 INCH LONG (NOT SHOWN)	2
36	203768-4		CHAIN ANCHOR PIN, 2 INCH LONG (NOT SHOWN)	3
37	07-070305		COTTER KEY, CHAIN PIN (NOT SHOWN)	10

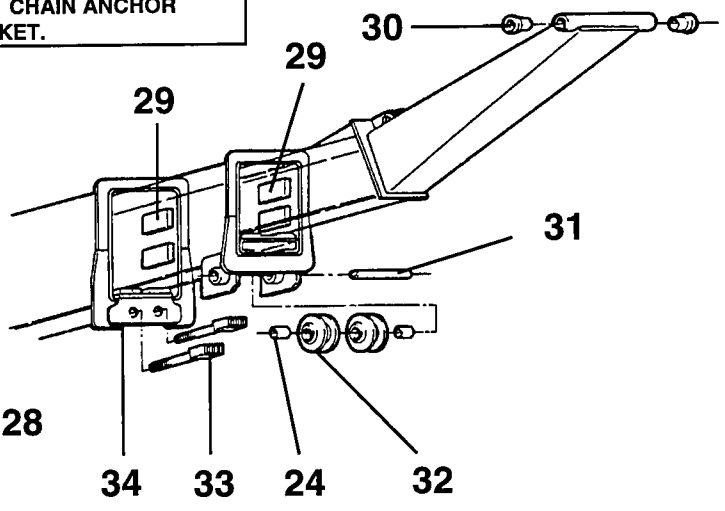
TITLE BOOM ASSEMBLY

PLATE NO.	B03.10	**SIMON AERIALS INC.**	REV. 09/08/91	PART NO.	207255-9





FRONT VIEW - BOOM ASSEMBLY



REAR VIEW - BOOM ASSEMBLY

TITLE	BOOM ASSEMBLY		
SIMON AERIALS INC. REV. 09/08/91	PART NO. 207255-9	PLATE NO. B03.10	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SCD-204329-6		SLIDER PAD, MID BOOM (TOP-FRONT)	1
2	SCD-204328-9		SLIDER PAD, TIP BOOM (TOP-FRONT)	1
3			MOVING ANCHOR	1
4	SBA-204704-5		SLIDER PAD, BASE BOOM (REAR-BOTTOM)	2
5	SAD-207299-9		SLIDER PAD, MID BOOM (REAR-BOTTOM)	1
6	SBD-201293-3		SLIDER PAD, EXTEND CYLINDER	1
7	SEE INDEX	D20	SLAVE LEVELING CYLINDER	1
8	SEE INDEX	D21	HOLDING VALVE, SLAVE LEVEL CYLINDER	2
9			HYDRAULIC HOSE, HPC PRESSURE	1
10			HYDRAULIC HOSE, HPC RETURN	1
11			HYDRAULIC HOSE, SLAVE CYLINDER ROD	1
12			HYDRAULIC HOSE, SLAVE CYLINDER CASE	1
13	03-085000		MULTI CONDUCTOR CABLE	
14	08-014300		LEAF CHAIN, REAR (OUTSIDE)	2
15	SEE INDEX	F3	HOSE TRACK	1
16	03-014200		LEAF CHAIN, FRONT (INSIDE)	1
17	SEE INDEX	D19	EXTEND CYLINDER	1
18	01-003600		HOLDING VALVE, EXTEND CYLINDER	1
19	03-021400		LIMIT SWITCH	1
20	03-026000		LEVER ARM, LIMIT SWITCH	1
21	SBD-203772-9		ANCHOR BLOCK, CHAIN SHEAVE PIN	2
22	SAD-203763-9		PIN, FRONT CHAIN SHEAVE	1
23	SCD-203802-5		SHEAVE, CHAIN	1
24	08-009000		SLEEVE BEARING	3
25	SAD-200629-9		GUARD PLATE	1
26	SBW-205477-3		CHAIN ANCHOR BLOCK	1
27	SBD-201293-3		SLIDER PAD, CHAIN ANCHOR	1
28			RETAINER PLATE	1
29	SBA-204648-4		SIDE SLIDER PAD	8
30	08-002200		FLANGE BEARING	2
31	SBD-205575-8		PIN, REAR CHAIN SHEAVE	1
32	SBD-205122-8		CHAIN ADJUSTING SCREW	2
33	SCW-205425-8		CHAIN ANCHOR BRACKET	1
34	SAD-203762-4		CHAIN ANCHOR PIN, 4" LG. (NOT SHOWN)	2
35	SAD-203768-4		CHAIN ANCHOR PIN, 2" LG. (NOT SHOWN)	3
36	07-070305		COTTER KEY, CHAIN PIN (NOT SHOWN)	10
37	SCD-203803-0		SHEAVE, REAR CHAIN	2

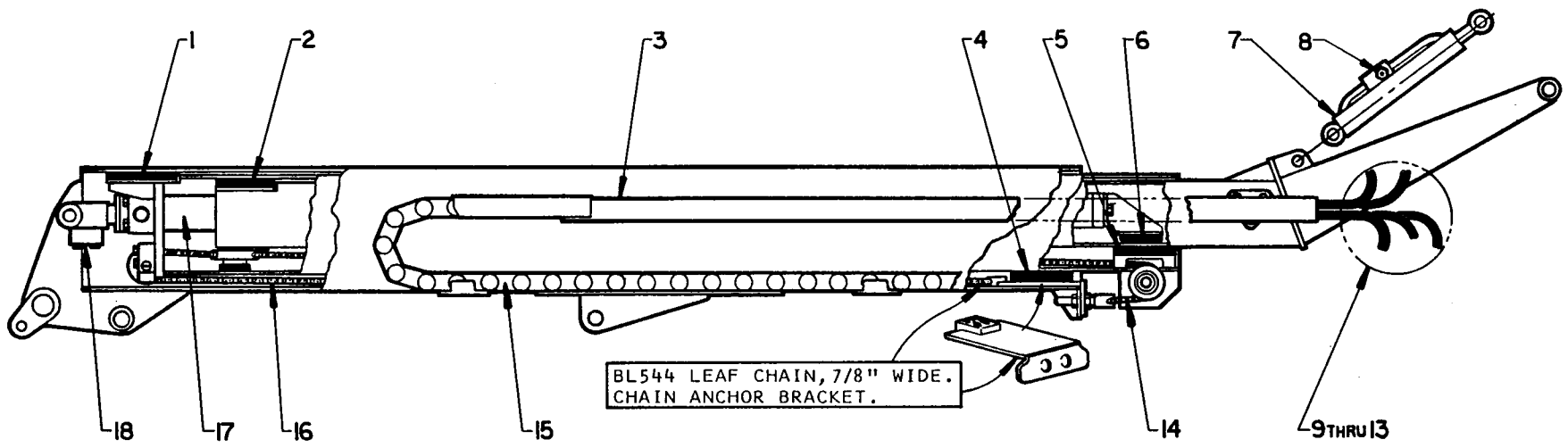
DESCRIPTION	PART NO.
BOOM ASSEMBLY	CAA-207256-8

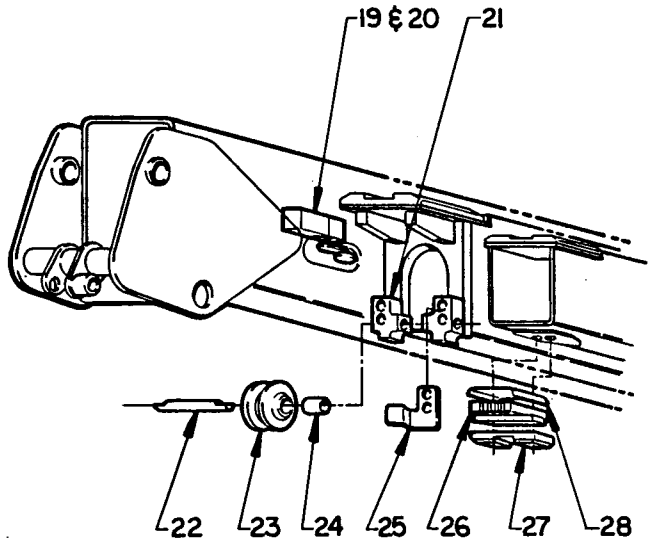
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DESCRIPTION

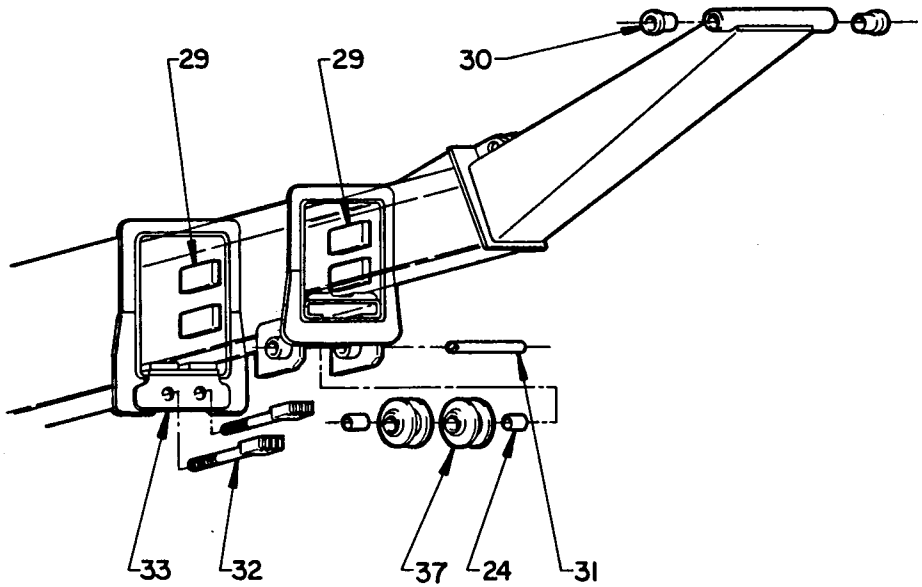
BOOM ASSEMBLY

PART NO.
CAA-207256-8





FRONT VIEW~BOOM ASS'Y.



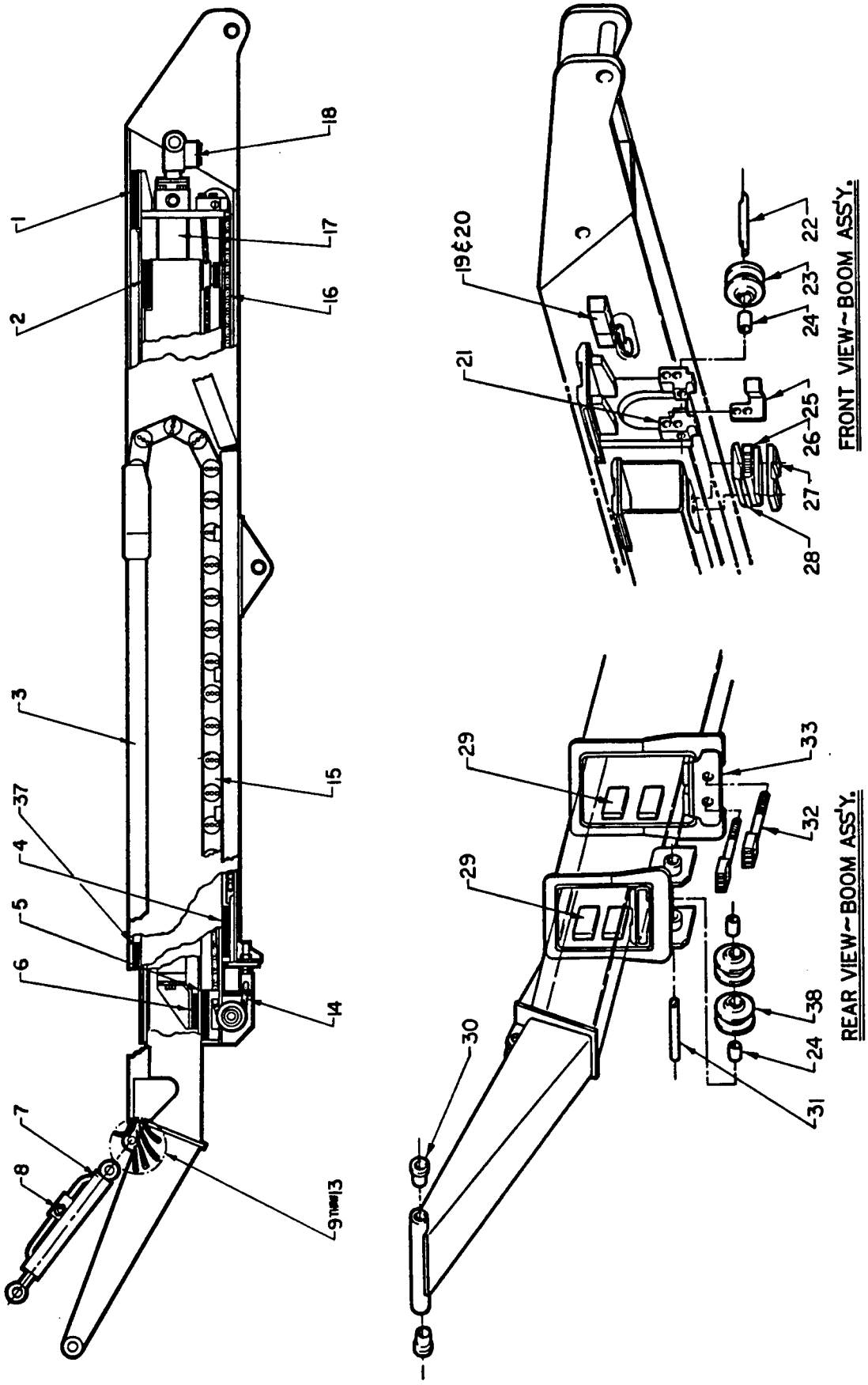
REAR VIEW~BOOM ASS'Y.

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SCD-204329-6		SLIDER PAD, MID BOOM (TOP-FRONT)	1
2	SCD-204328-9		SLIDER PAD, TIP BOOM (TOP-FRONT)	1
3			MOVING ANCHOR	1
4	SBA-204704-5		SLIDER PAD, BASE BOOM (REAR-BOTTOM)	2
5	SAD-207299-9		SLIDER PAD, MID BOOM (REAR-BOTTOM)	1
6	SBD-201293-3		SLIDER PAD, EXTEND CYLINDER	1
7	SEE INDEX	D20	SLAVE LEVELING CYLINDER	1
8	SEE INDEX	D21	HOLDING VALVE, SLAVE LEVEL CYLINDER	2
9			HYDRAULIC HOSE, HPC PRESSURE	1
10			HYDRAULIC HOSE, HPC RETURN	1
11			HYDRAULIC HOSE, SLAVE CYLINDER ROD	1
12			HYDRAULIC HOSE, SLAVE CYLINDER CASE	1
13	03-085000		MULTI CONDUCTOR CABLE	
14	08-014300		LEAF CHAIN, REAR (OUTSIDE)	2
15	SEE INDEX	F3	HOSE TRACK	1
16	03-014200		LEAF CHAIN, FRONT (INSIDE)	1
17	SEE INDEX	D19	EXTEND CYLINDER	1
18	01-003600		HOLDING VALVE, EXTEND CYLINDER	1
19	03-021400		LIMIT SWITCH	1
20	03-026400		LEVER ARM, LIMIT SWITCH	1
21	SBD-203772-9		ANCHOR BLOCK, CHAIN SHEAVE PIN	2
22	SAD-203763-9		PIN, FRONT CHAIN SHEAVE	1
23	SCD-203802-5		SHEAVE, CHAIN	1
24	08-009000		SLEEVE BEARING	3
25	SAD-200629-9		GUARD PLATE	1
26	SBW-205477-3		CHAIN ANCHOR BLOCK	1
27	SBD-201293-3		SLIDER PAD, CHAIN ANCHOR	1
28			RETAINER PLATE	1
29	SBA-204648-4		SIDE SLIDER PAD	8
30	08-002200		FLANGE BEARING	2
31	SBD-205575-8		PIN, REAR CHAIN SHEAVE	1
32	SBD-205122-8		CHAIN ADJUSTING SCREW	2
33	SCW-205425-8		CHAIN ANCHOR BRACKET	1
34	SAD-203762-4		CHAIN ANCHOR PIN, 4" LG. (NOT SHOWN)	2
35	SAD-203768-4		CHAIN ANCHOR PIN, 2" LG. (NOT SHOWN)	3
36	07-070305		COTTER KEY, CHAIN PIN (NOT SHOWN)	10
37	UCD-208606-8		SLIDER PAD, BASE BOOM (TOP-REAR)	1
38	SCD-203803-0		SHEAVE, REAR CHAIN	2

DESCRIPTION	PART NO.
BOOM ASSEMBLY	A-C3510160

B3.22



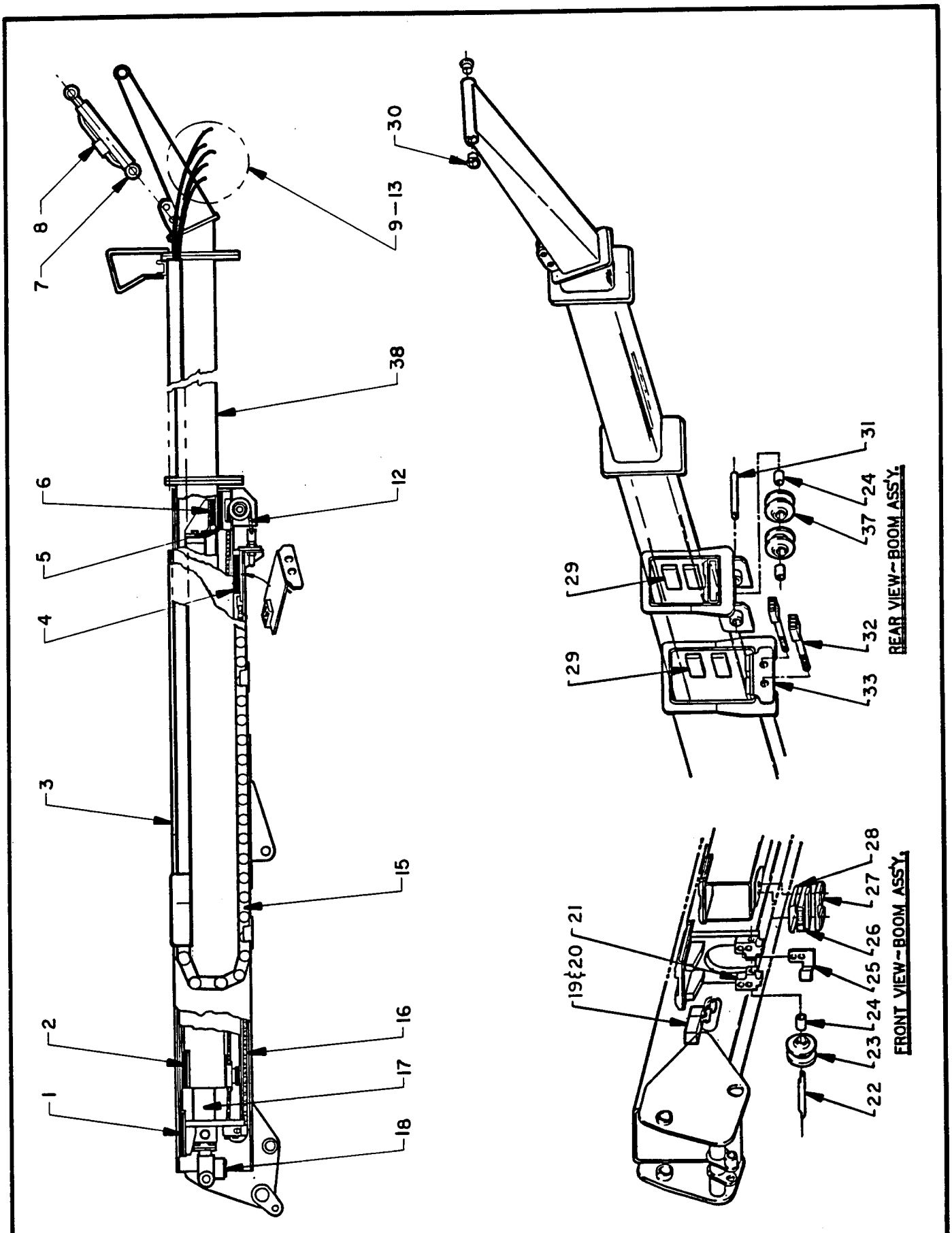
0286/0186

DESCRIPTION	PART NO.
BOOM ASSEMBLY	A-C3510160

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SCD-204329-6		SLIDER PAD, MID BOOM (TOP-FRONT)	1
2	SCD-204328-9		SLIDER PAD, TIP BOOM (TOP-FRONT)	1
3			MOVING ANCHOR	1
4	SBA-204704-5		SLIDER PAD, BASE BOOM (REAR-BOTTOM)	2
5	SAD-207299-9		SLIDER PAD, MID BOOM (REAR-BOTTOM)	1
6	SBD-201293-3		SLIDER PAD, EXTEND CYLINDER	1
7	SEE INDEX	D20	SLAVE LEVELING CYLINDER	1
8	SEE INDEX	D21	HOLDING VALVE, SLAVE LEVEL CYLINDER	2
9			HYDRAULIC HOSE, HPC PRESSURE	1
10			HYDRAULIC HOSE, HPC RETURN	1
11			HYDRAULIC HOSE, SLAVE CYLINDER ROD	1
12			HYDRAULIC HOSE, SLAVE CYLINDER CASE	1
13	03-085000		MULTI CONDUCTOR CABLE	
14	08-014300		LEAF CHAIN, REAR (OUTSIDE)	2
15	SEE INDEX	F3	HOSE TRACK	1
16	03-014200		LEAF CHAIN, FRONT (INSIDE)	1
17	SEE INDEX	D19	EXTEND CYLINDER	1
18	01-003600		HOLDING VALVE, EXTEND CYLINDER	1
19	03-021400		LIMIT SWITCH	1
20	03-026400		LEVER ARM, LIMIT SWITCH	1
21	SBD-203772-9		ANCHOR BLOCK, CHAIN SHEAVE PIN	2
22	SAD-203763-9		PIN, FRONT CHAIN SHEAVE	1
23	SCD-203802-5		SHEAVE, CHAIN	1
24	08-009000		SLEEVE BEARING	3
25	SAD-200629-9		GUARD PLATE	1
26	SBW-205477-3		CHAIN ANCHOR BLOCK	1
27	SBD-201293-3		SLIDER PAD, CHAIN ANCHOR	1
28			RETAINER PLATE	1
29	SBA-204648-4		SIDE SLIDER PAD	8
30	08-002200		FLANGE BEARING	2
31	SBD-205575-8		PIN, REAR CHAIN SHEAVE	1
32	SBD-205122-8		CHAIN ADJUSTING SCREW	2
33	SCW-205425-8		CHAIN ANCHOR BRACKET	1
34	SAD-203762-4		CHAIN ANCHOR PIN, 4" LG. (NOT SHOWN)	2
35	SAD-203768-4		CHAIN ANCHOR PIN, 2" LG. (NOT SHOWN)	3
36	07-070305		COTTER KEY, CHAIN PIN (NOT SHOWN)	10
37	SCD-203803-0		SHEAVE, REAR CHAIN	2
38			FIBERGLASS TIP BOOM SECTION	1

DESCRIPTION	PART NO.
BOOM ASSEMBLY	

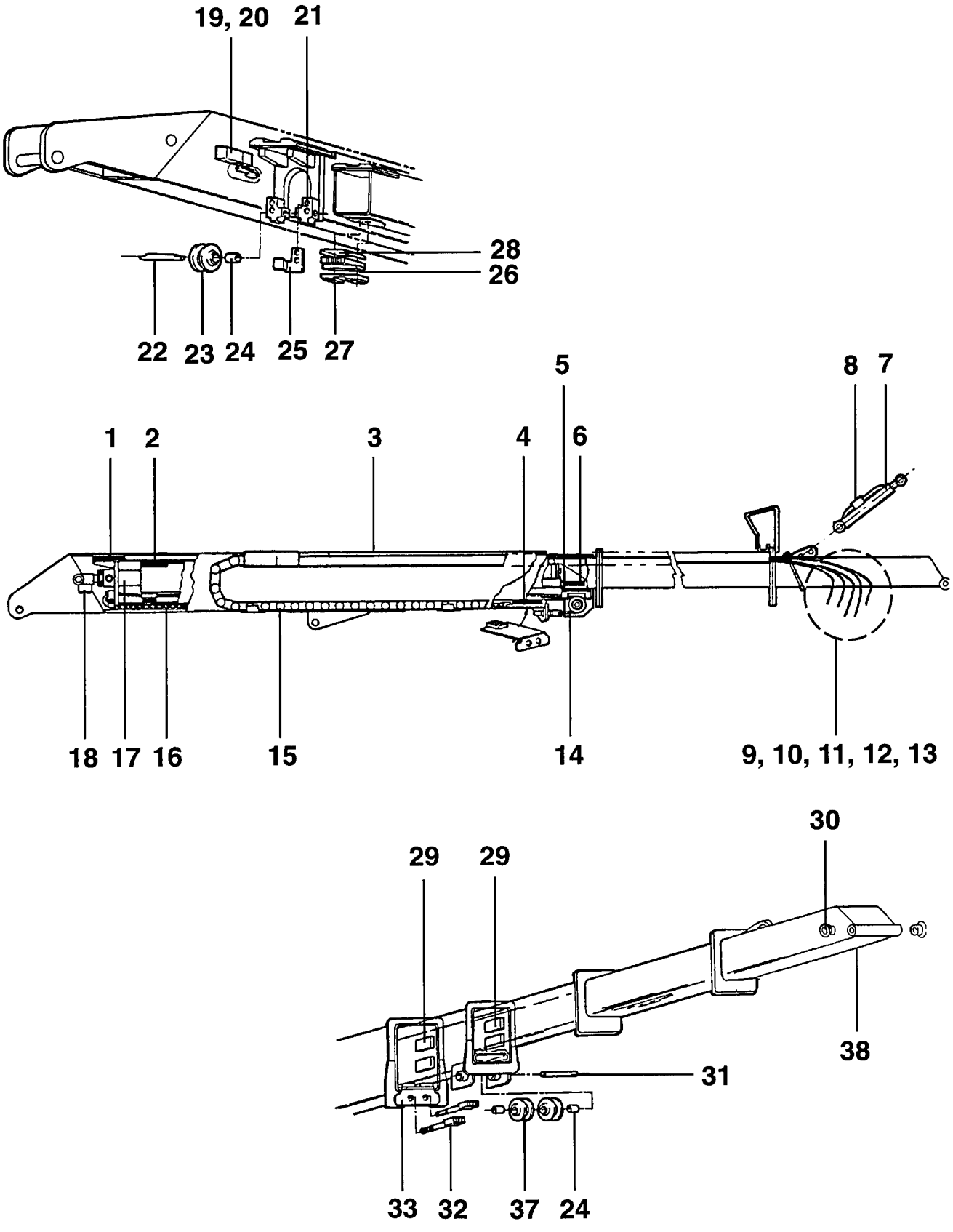


DESCRIPTION	PART NO.

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	204329-6		WEAR (SLIDER) PAD, MID BOOM (Top-front)	1
2	204328-9		WEAR (SLIDER) PAD, TIP BOOM (Top-front)	1
3			MOVING ANCHOR	1
4	204704-5		WEAR (SLIDER) PAD, BASE BOOM (Rear-bottom	2
5	207299-9		WEAR (SLIDER) PAD, MID BOOM (Rear-bottom)	1
6	201293-3		WEAR (SLIDER) PAD, EXTEND CYLINDER	1
7	See index	D20	SLAVE LEVELING CYLINDER	1
8	See index	D21	HOLDING VALVE, SLAVE LEVEL CYLINDER	1
9			HYDRAULIC HOSE, HPC PRESSURE	1
10			HYDRAULIC HOSE, HPC RETURN	1
11			HYDRAULIC HOSE, SLAVE CYLINDER ROD	1
12			HYDRAULIC HOSE, SLAVE CYLINDER CASE	1
13	03-085000		MULTI CONDUCTOR CABLE	1
14	08-014300		LEAF CHAIN, REAR (Outside)	2
15	See index	F3	HOSE TRACK	1
16	03-014200		LEAF CHAIN, FRONT (Inside)	1
17	See index	D19	EXTEND CYLINDER	1
18	01-003600		HOLDING VALVE, EXTEND CYLINDER	1
19	03-021400		LIMIT SWITCH	1
20	03-021400		LEVER ARM, LIMIT SWITCH	1
21	203772-9		ANCHOR BLOCK, CHAIN SHEAVE PIN	2
22	203763-9		PIN, FRONT CHAIN SHEAVE	1
23	203802-5		SHEAVE, CHAIN	1
24	08-009000		SLEEVE BEARING	3
25	200629-9		GUARD PLATE	1
26	205477-3		CHAIN ANCHOR BLOCK	1
27	201293-3		WEAR (SLIDER) PAD, CHAIN ANCHOR	1
28			RETAINER PLATE	1
29	204648-4		WEAR (SLIDER) PAD, SIDE	8
30	08-002200		FLANGE BEARING	2
31	205575-8		PIN, REAR CHAIN SHEAVE	1
32	205122-8		CHAIN ADJUSTING SCREW	2
33	205425-8		CHAIN ANCHOR BRACKET	1
34	203762-4		CHAIN ANCHOR PIN, 4" (Not shown)	2
35	203768-4		CHAIN ANCHOR PIN, 2" (Not shown)	3
36	07-070305		COTTER KEY, CHAIN PIN (Not shown)	10
37	203803-0		SHEAVE, REAR CHAIN	2
38			FIBER GLASS TIP BOOM SECTION	1

TITLE	BOOM ASSEMBLY, INSULATED (STRAIGHT TIP)			
PLATE NO.	B03.26	**SIMON AERIALS INC.**	REV. 12/08/91	PART NO.

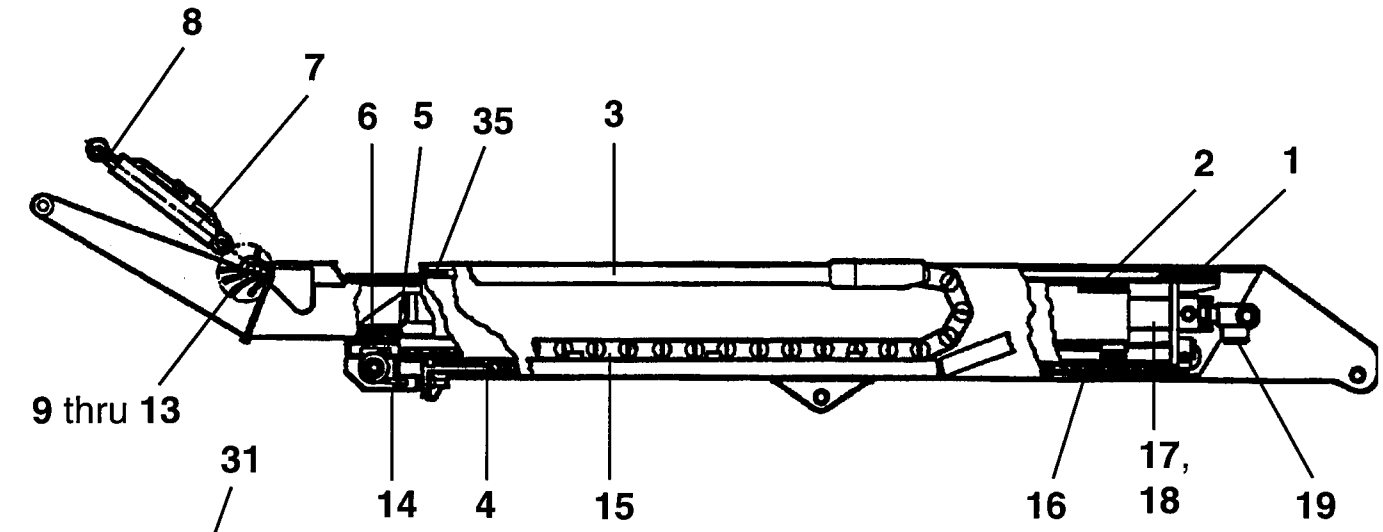


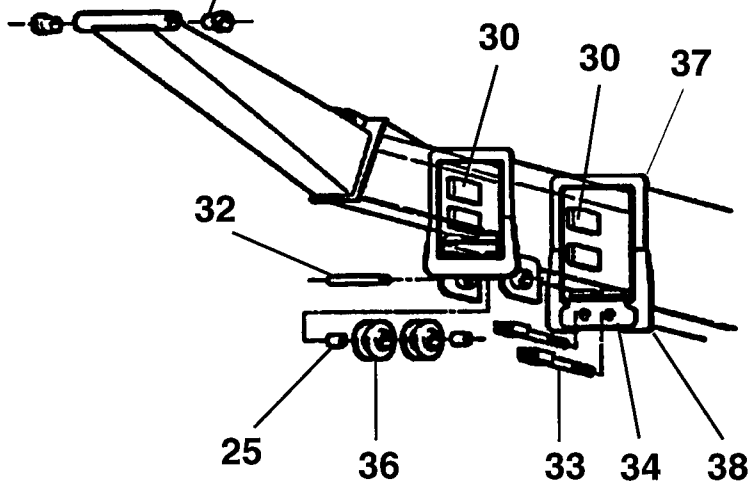
TITLE	BOOM ASSEMBLY, INSULATED (STRAIGHT TIP)		
SIMON AERIALS INC.	REV. 12/08/91	PART NO.	PLATE NO. B03.26

PARTS LIST

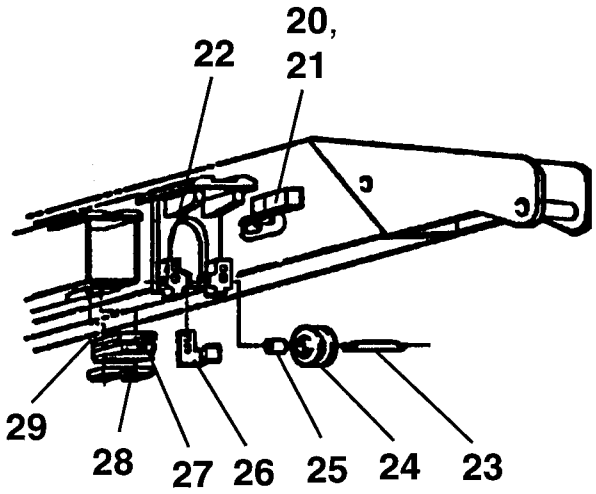
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2043296		PAD, WEAR (mid boom at top-front)	1
2	2043289		PAD, WEAR (tip boom at top-front)	1
3	2094593		ANCHOR, MOVING	1
4	2012791		PAD, WEAR (base boom at rear-bottom)	4
5	2118320		PAD, WEAR (mid boom at rear-bottom)	1
6	2012933		PAD, WEAR (telescope cylinder)	1
7	See index	D20.13	CYLINDER, SLAVE LEVEL	1
8	10-040900		BOOT, SLAVE LEVEL CYLINDER	1
9			HOSE, HYDRAULIC (HPC PRESSURE)	1
10			HOSE, HYDRAULIC (HPC RETURN)	1
11			HOSE, HYDRAULIC (slave cylinder rod)	1
12			HOSE, HYDRAULIC (slave cylinder case)	1
13	03-085200		CABLE, TWO CONDUCTOR	1
14	08-014300		CHAIN, LEAF (rear-outside)	2
15	See index	F03.44	HOSE TRACK	1
16	08-014200		CHAIN, LEAF (front-inside)	1
17	See index	D19.32	CYLINDER, TELESCOPE	1
18	2051372		PIN, TELESCOPE CYLINDER (1.5" O.D. BY 11.69" long)	1
19	01-003600		VALVE, HOLDING (telescope cylinder)	1
20	03-025600		SWITCH, LIMIT	1
21	03-026000		LEVER ARM, LIMIT SWITCH	1
22	2037729		BLOCK, ANCHOR (chain sheave pin)	2
23	2037639		PIN, SHEAVE (front chain)	1
24	2038025		SHEAVE, CHAIN	1
25	08-009000		BEARING, SLEEVE	3
26	2119510		PLATE, GUARD	1
27	2054773		BLOCK, CHAIN ANCHOR	1
28	2012933		PAD, WEAR (chain anchor)	1
29	2059031		PLATE, RETAINER	1
30	2015297		PAD, WEAR (side)	8
31	08-002200		BEARING, FLANGE (1.25" I.D. X 1.5-2" O.D. X 1.5")	2
32	2055758		PIN, SHEAVE (rear chain)	1
33	2051228		SCREW, CHAIN ADJUSTING	2
34	2054258		BRACKET, CHAIN ANCHOR	1
35	2086068		PAD, WEAR (base boom at top rear)	1
36	2038030		SHEAVE, REAR CHAIN	2
37	2136280		GUIDE, TOP MOVING ANCHOR	1
38	2102190		GUIDE, BOTTOM MOVING ANCHOR	1
39	2109640		BOOM BRUSH KIT (not shown)	1

TITLE	BOOM ASSEMBLY			
PLATE NO.	B03.28	**SIMON AERIALS INC.**	REV. 08/19/91	PART NO.





REAR VIEW OF BOOM ASSEMBLY



FRONT VIEW OF BOOM ASSEMBLY

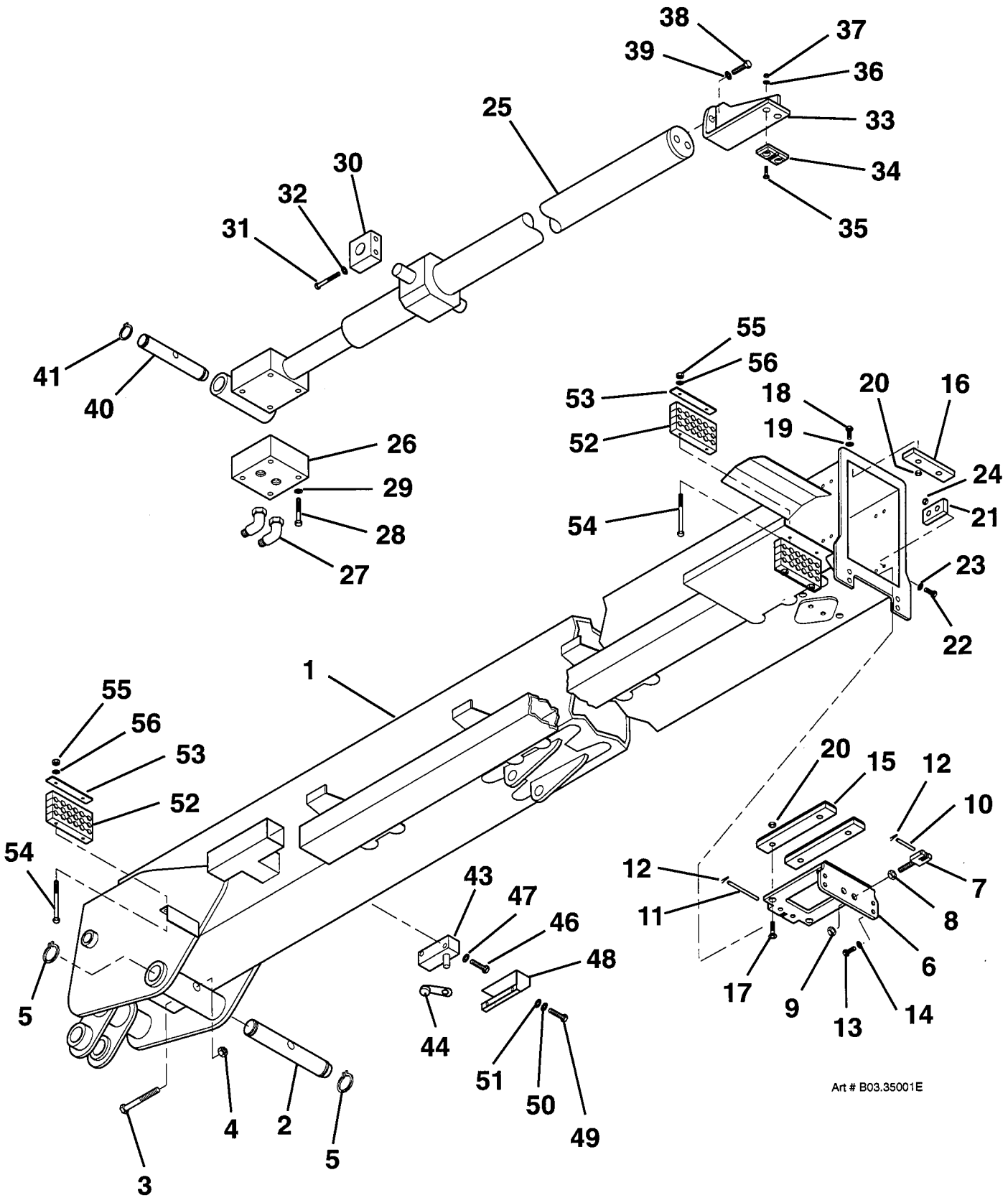
TITLE	BOOM ASSEMBLY		
SIMON AERIALS INC. REV. 08/19/91		PART NO.	PLATE NO. B03.28

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2118110		BOOM WELDMENT, BASE	1
2	2069146		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	2054258		BRACKET, CHAIN AND WEAR PAD MOUNTING (rear)	1
7	2051228		ANCHOR, CHAIN (adjustable)	2
8	07-040023		NUT, HEX (7/8"-14, Grade 5)	2
9	07-047123		NUT, HEX JAM (7/8"-14, Grade 5)	2
10	2037684		PIN, LEAF CHAIN ANCHOR (2" long, for 5/8" pitch chain)	2
11	2037624		PIN, LEAF CHAIN ANCHOR (4" long, for 5/8" pitch chain)	1
12	07-070305		PIN, COTTER (1/16" x 1")	6
13	07-003127		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/2", Grade 5)	4
14	07-065021		WASHER, HELICAL LOCK (5/8")	4
15	2012791		PAD, WEAR (Base boom, rear, bottom)	2
16	2086068		PAD, WEAR (Base boom, rear, top)	1
17	07-005125		CAP SCREW, FLAT HEAD (5/8"-11 x 1", Grade 5)	4
18	07-003125		CAP SCREW, HEX HEAD (5/8"-11 x 1", Grade 5)	2
19	07-065021		WASHER, HELICAL LOCK (5/8")	2
20	07-047021		NUT, HEX JAM (5/8"-11, Grade 5)	6
21	2070357		PAD, SIDE WEAR [4-1/2" (114 mm) x 2-1/2" (63.5 mm)]	6
22	07-003084		CAP SCREW, HEX HEAD (1/2"-13 x 7/8", Grade 5)	8
23	07-065018		WASHER, HELICAL LOCK (1/2")	8
24	07-047018		NUT, HEX JAM (1/2"-13, Grade 5)	8
25	See index	D19.--	CYLINDER, TELESCOPE	1
26	01-003600		VALVE, HOLDING (Double, #6 SAE O-ring ports)	1
27	06-044600		ELBOW, STRAIGHT THREAD (6 C50X)	2
28	07-003011		CAP SCREW, HEX HEAD (1/4"-20 x 2-1/2", Grade 5)	4
29	07-065014		WASHER, HELICAL LOCK (1/4")	4
30	2067726		BLOCK, TELESCOPE CYLINDER	2
31	07-004138		CAP SCREW, HEX HEAD (5/8"-11 x 4-1/2", Grade 8)	4
32	07-065021		WASHER, HELICAL LOCK (5/8")	4
33	2058713		BRACKET, TELESCOPE CYLINDER WEAR PAD	1
34	2012933		PAD, TELESCOPE CYLINDER WEAR [5-1/4" (133 mm) x 3" (76 mm)]	1
35	07-003086		CAP SCREW, FLAT HEAD (1/2"-13 x 1-1/4", Grade 5)	2
36	07-065018		WASHER, HELICAL LOCK (1/2")	2
37	07-040018		NUT, HEX (1/2"-13, Grade 5)	2
38	07-008084		CAP SCREW, HEX HEAD (1/2"-13 x 7/8", Grade 8)	2
39	07-065018		WASHER, HELICAL LOCK (1/2")	2
40	2067744		PIN, TELESCOPE CYLINDER (1-1/2" x 12-15/16")	1
41	08-040900		RING, RETAINING (1-1/2")	2

TITLE BOOM ASSEMBLY, MP 60 (STRAIGHT TIP) (PLATE 1 OF 4)

PLATE NO.	B03.35	SIMON AERIALS INC.	NEW 06/03/91	PART NO.	3524370

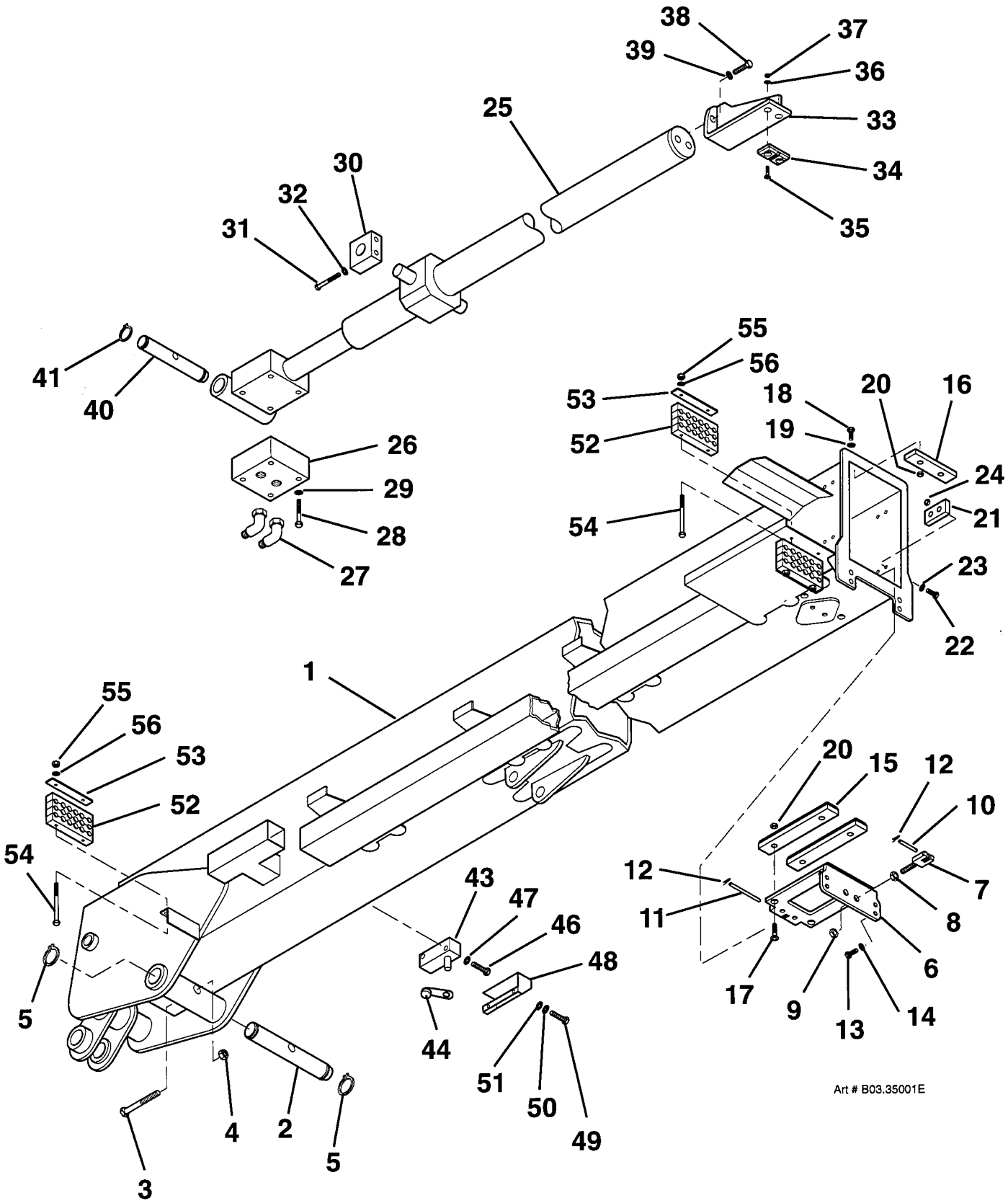


TITLE	BOOM ASSEMBLY, MP 60 (STRAIGHT TIP) (PLATE 1 OF 4)		
SIMON AERIALS INC.	NEW 06/03/91	PART NO. 3524370	PLATE NO. B03.35

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
42	3518520		SWITCH ASSEMBLY, LIMIT (double pole)	1
43	03-025600		SWITCH, LIMIT (2 N.O., 2 N.C contacts)	1
44	03-026000		ARM, LIMIT SWITCH	1
45	03-041000		GRIP, CORD (1/2")	1
46	07-008354		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8)	2
47	07-065011		WASHER, HELICAL LOCK	2
48	2009322		COVER, LIMIT SWITCH	1
49	07-003022		CAP SCREW, HEX HEAD (5/16"-18 x 5/8")	2
50	07-065015		WASHER, HELICAL LOCK (5/16")	2
51	07-062014		WASHER, FLAT (1/4")	2
52	2130670		CLAMP, HOSE (17 hole) (for "Full Hydraulic" units)	4
	*2043199		CLAMP, HOSE (6 hole) (except "Full Hydraulic")	4
53	2181180		BAR, HOSE CLAMP COMPRESSION (without countersink) (optional, for "Full Hydraulic" units only)	1
	2181190		BAR, HOSE CLAMP COMPRESSION (with countersink) (optional, for "Full Hydraulic" units only)	1
54	07-003061		CAP SCREW, HEX HEAD (3/8"-16 x 4-3/4", Grade 5)	6
	07-090800		CAP SCREW, FLAT HEAD (3/8"-16 x 4-3/4", Grade 5)	2
55	07-050016		NUT, TOP LOCK (3/8"-16, Grade 5)	8
56	07-062016		WASHER, FLAT (3/8")	8

TITLE	BOOM ASSEMBLY, MP 60 (STRAIGHT TIP) (PLATE 2 OF 4)			
PLATE NO.	B03.35	**SIMON AERIALS INC.**	NEW 06/03/91	PART NO. 3524370



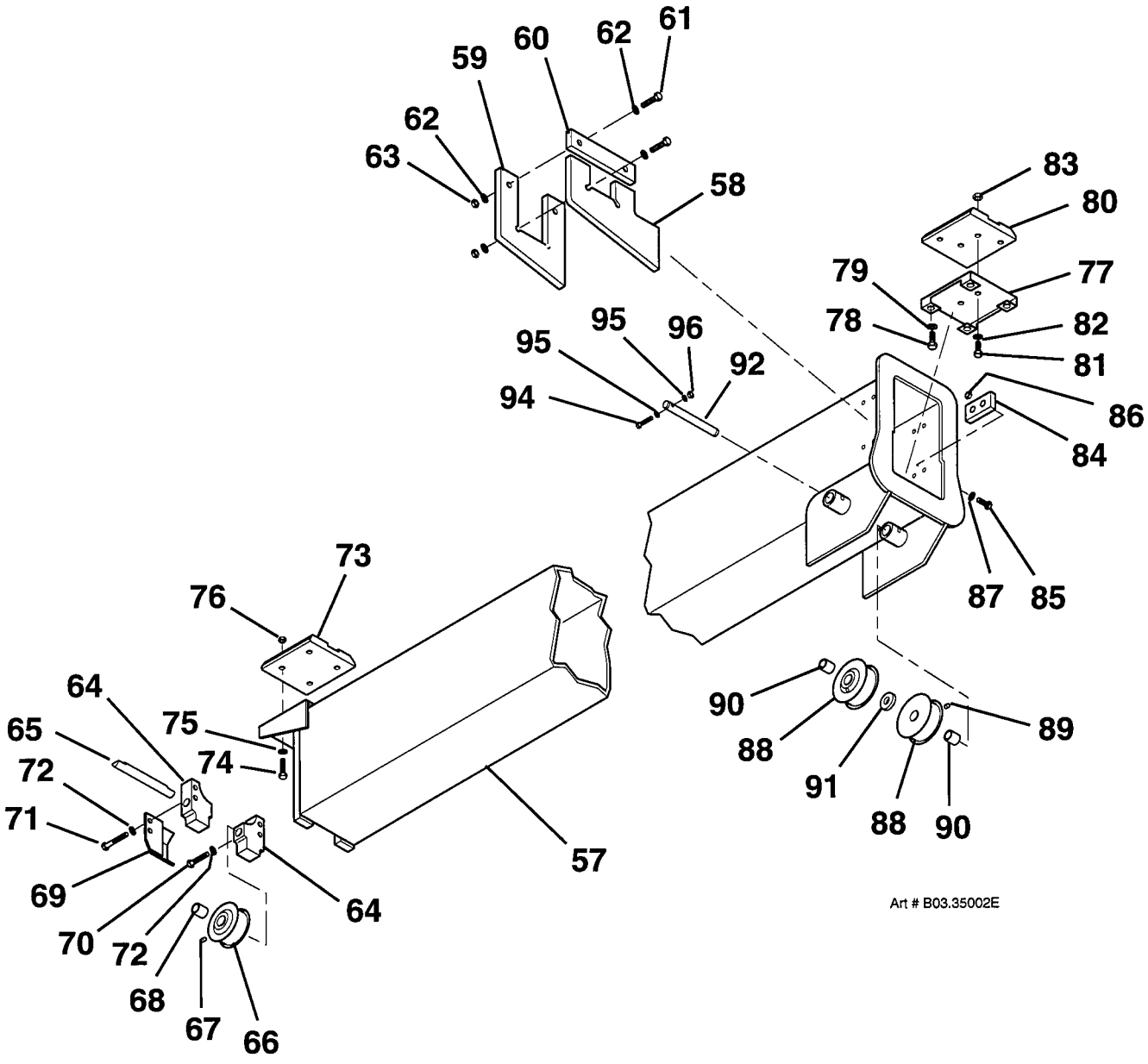
TITLE	BOOM ASSEMBLY, MP 60 (STRAIGHT TIP) (PLATE 2 OF 4)		
SIMON AERIALS INC.	NEW 06/03/91	PART NO. 3524370	PLATE NO. B03.35

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
57	2118250		BOOM WELDMENT, MID	1
58	2094681		BRACKET, MOVING ANCHOR GUIDE (for "Full Hydraulic")	1
	2117460		BRACKET, MOVING ANCHOR GUIDE (e/ "Full Hydraulic")	1
59	2102190		GUIDE, MOVING ANCHOR (bottom/ side) (for "Full Hyd.")	1
			GUIDE, MOVING ANCHOR (bottom/ side) (except Full Hyd.)	1
60	2136280		GUIDE, MOVING ANCHOR (top) (for "Full Hydraulic")	1
			GUIDE, MOVING ANCHOR (top) (except "Full Hydraulic")	1
61			CAP SCREW, HEX HEAD (1/2"-13 x 2-1/4", Grade 5)	4
62			WASHER, FLAT (1/2")	8
63			NUT, HEX (1/2"-13, Grade 5)	4
64	2037729		BLOCK, CHAIN SHEAVE MOUNTING	2
65	2037639		PIN, CHAIN SHEAVE (1" x 9")	1
66	2038025		SHEAVE (3-1/4" O.D., for 5/8 pitch leaf chain)	1
67	08-053100		FITTING, GREASE (1/4"-28, straight)	1
68	08-009000		BEARING	1
69	2119510		RETAINER WELDMENT, CHAIN	1
70	07-004133		CAP SCREW, HEX HEAD (5/8"-11 x 3", Grade 8)	2
71	07-004134		CAP SCREW, HEX HEAD (5/8"-11 x 3-1/4", Grade 8)	2
72	07-065021		WASHER, HELICAL LOCK (5/8")	4
73	2043296		PAD, WEAR (Mid boom, top, front) (7" x 9-1/4")	1
74	07-003125		CAP SCREW, HEX HEAD (5/8"-11 x 1", Grade 5)	2
75	07-065021		WASHER, HELICAL LOCK (5/8")	2
76	07-047021		NUT, HEX JAM (5/8"-11, Grade 5)	2
77	2069771		BRACKET, WEAR PAD	1
78			CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4")	4
79	07-065018		WASHER, HELICAL LOCK (1/2")	4
80	2118320		PAD, WEAR (Mid boom, bottom, rear) (8" x 6-1/4")	1
81	07-003125		CAP SCREW, HEX HEAD (5/8"-11 x 1", Grade 5)	2
82	07-065021		WASHER, HELICAL LOCK (5/8")	2
83	07-047021		NUT, HEX JAM (5/8"-11, Grade 5)	2
84	2070357		PAD, SIDE WEAR [4-1/2" (114 mm) x 2-1/2" (63.5 mm)]	4
85	07-003084		CAP SCREW, HEX HEAD (1/2"-13 x 7/8", Grade 5)	8
86	07-047018		NUT, HEX JAM (1/2"-13, Grade 5)	8
87	07-065018		WASHER, HELICAL LOCK (1/2")	8
88	2038030		SHEAVE (4" O.D., for 5/8 pitch leaf chain)	2
89	08-053100		FITTING, GREASE (1/4"-28, straight)	2
90	08-009000		BEARING	2
91	2037868		SPACER, CHAIN SHEAVE	1
92	2055758		PIN, CHAIN SHEAVE (1" x 11-13/16")	1
93	08-040600		RING, RETAINING (1")	2
94	07-003051		CAP SCREW, HEX HEAD (3/8"-16 x 2-1/2", Grade 5)	1
95	07-060016		WASHER, FLAT (3/8" SAE)	2
96	07-040016		NUT, HEX (3/8"-16, Grade 5)	1

TITLE BOOM ASSEMBLY, MP 60 (STRAIGHT TIP) (PLATE 3 OF 4)

PLATE NO. B03.35 | **SIMON AERIALS INC.** NEW 06/03/91 | **PART NO.** 3524370



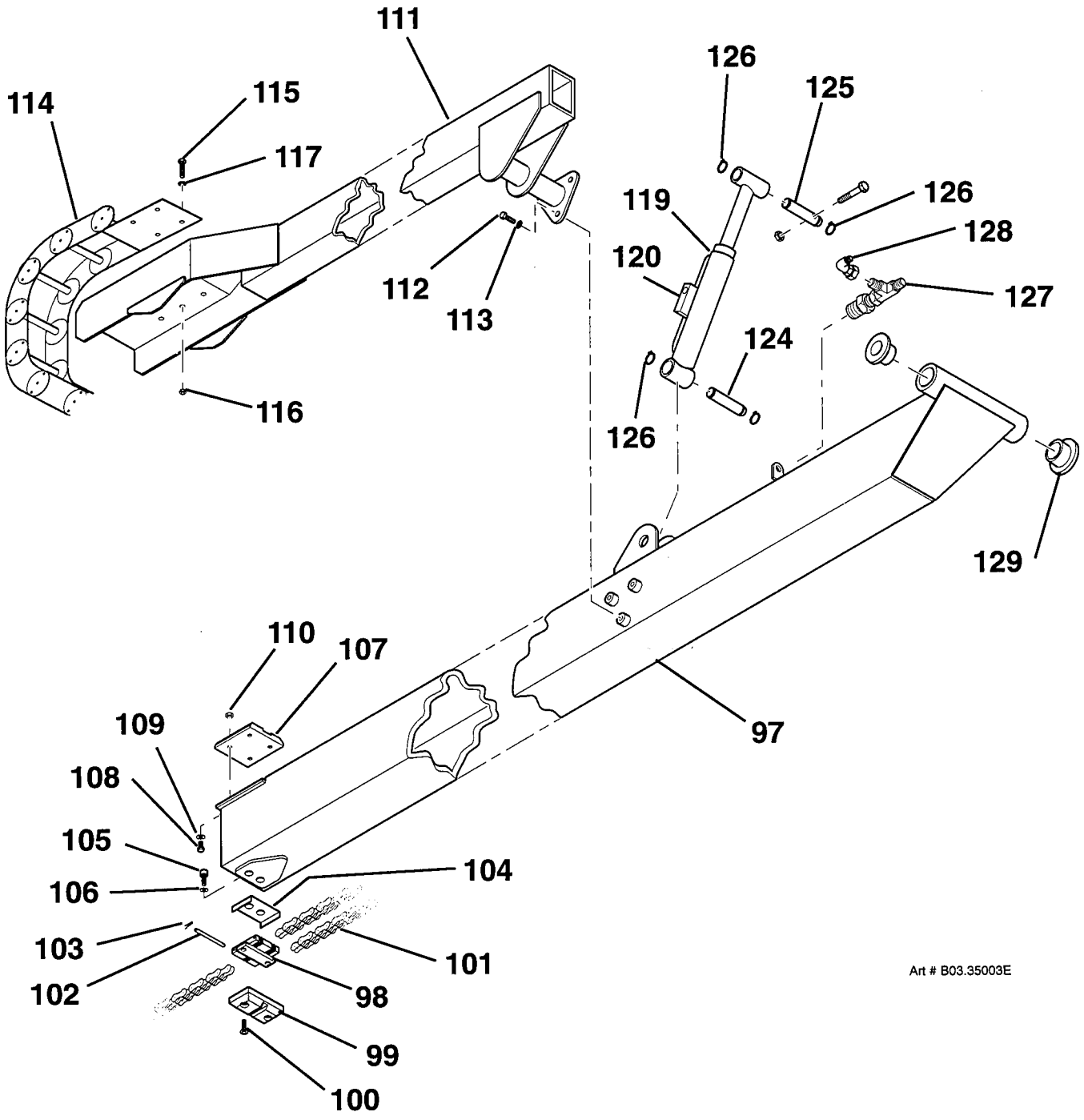
TITLE	BOOM ASSEMBLY, MP 60 (STRAIGHT TIP) (PLATE 3 OF 4)		
SIMON AERIALS INC.	NEW 06/03/91	PART NO. 3524370	PLATE NO. B03.35

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
97	2118280		BOOM WELDMENT, TIP	1
98	2054773		ANCHOR, CHAIN	1
99	2012933		PAD, WEAR (Chain anchor) [5-1/4" x 3"]	1
100	07-005125		CAP SCREW, FLAT HEAD (5/8"-11 x 1", Grade 5)	2
101	08-014300		CHAIN, LEAF (5/8" pitch, 379 P)	3
102	2037624		PIN, LEAF CHAIN ANCHOR (4" long, for 5/8" pitch chain)	2
103	07-070305		PIN, COTTER (1/16" x 1")	4
104	2059031		PLATE, ANCHOR CHAIN BLOCK LOCKING	1
105	2041317		SCREW (modified socket head 3/4"-10 x 1-1/2", grade 8)	2
106	07-065022		WASHER, HELICAL LOCK (3/4")	2
107	2043289		PAD, WEAR (Tip boom top front) [7" x 7-3/8"]	1
108	07-003125		CAP SCREW, HEX HEAD (5/8"-11 x 1", Grade 5)	2
109	07-065021		WASHER, HELICAL LOCK (5/8")	2
110	07-047021		NUT, HEX JAM (5/8"-11, Grade 5)	2
111	2118430		ANCHOR WELDMENT, MOVING (for "Full Hydraulic" units)	1
	2147900		ANCHOR WELDMENT, MOVING (except "Full Hydraulic")	1
112	07-004086		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/4", Grade 8)	3
113	07-065018		WASHER, HELICAL LOCK (1/2")	3
114	See plate . .	F03.--	CARRIER, HOSE (Hose track)	1
115	07-017046		CAP SCREW, BUTTON HEAD (3/8"-16 x 1-1/4", Grade 5)	8
116	07-050016		NUT, TOP LOCK (3/8"-16, Grade 5)	8
117	07-062016		WASHER, FLAT (3/8")	8
118	3501799		CYLINDER ASSEMBLY, SLAVE LEVEL	1
119	04-007300	D20.02	CYLINDER, SLAVE LEVEL	1
120	01-032500		VALVE, HOLDING (1/4" cartridge)	2
121	06-039500		CONNECTOR, STRAIGHT THREAD (4-6 F50X)	2
122	08-051300		FITTING, GREASE (1/8", 90°)	1
123	08-050500		FITTING, GREASE (1/8", 45°)	1
124	2068879		PIN, SLAVE CYLINDER (1-1/4" x 7-3/8") (base end)	1
125	2068884		PIN, SLAVE CYLINDER (1-1/4" x 4-7/8") (rod end)	1
126	08-040700		RING, RETAINING (1-1/4")	4
127	06-036300		TEE, BULKHEAD (4 WJJTX)	2
128	06-051300		ELBOW, SWIVEL NUT (4 C6X)	1
129	08-002200		BEARING, FLANGED (1-1/4" I.D., 1-1/2" O.D., 2" flange)	2
130	10-113000		PROTECTOR, HOSE (rubber, 8" x 12" x 1/8") (not shown)	3
131	03-085900		CABLE, ELECTRICAL (3 conductor, 12 AWG) (Bulk)	A.R.
132	03-085700		CABLE, ELECTRICAL (4 conductor, 16 AWG) (Bulk)	A.R.
133	03-416100		CABLE, ELECTRICAL (19 conductor, 16 AWG) (Bulk)	A.R.
134	03-066400		TIE, CABLE [20" (508 mm) long]	8
135			HOSE ASSEMBLY (for "Full Hydraulic" units) (not shown)	
	3524550		8.5 ft (2.591 M) long, with (2) 4-4 FJX fittings	1
	3524560		8.9 ft (2.713 M) long, with (2) 4-4 FJX fittings	1

TITLE BOOM ASSEMBLY, MP 60 (STRAIGHT TIP) (PLATE 4 OF 4)

PLATE NO. B03.35 | **SIMON AERIALS INC.** REV. 27 OCT., 1992 | **PART NO.** 3524370



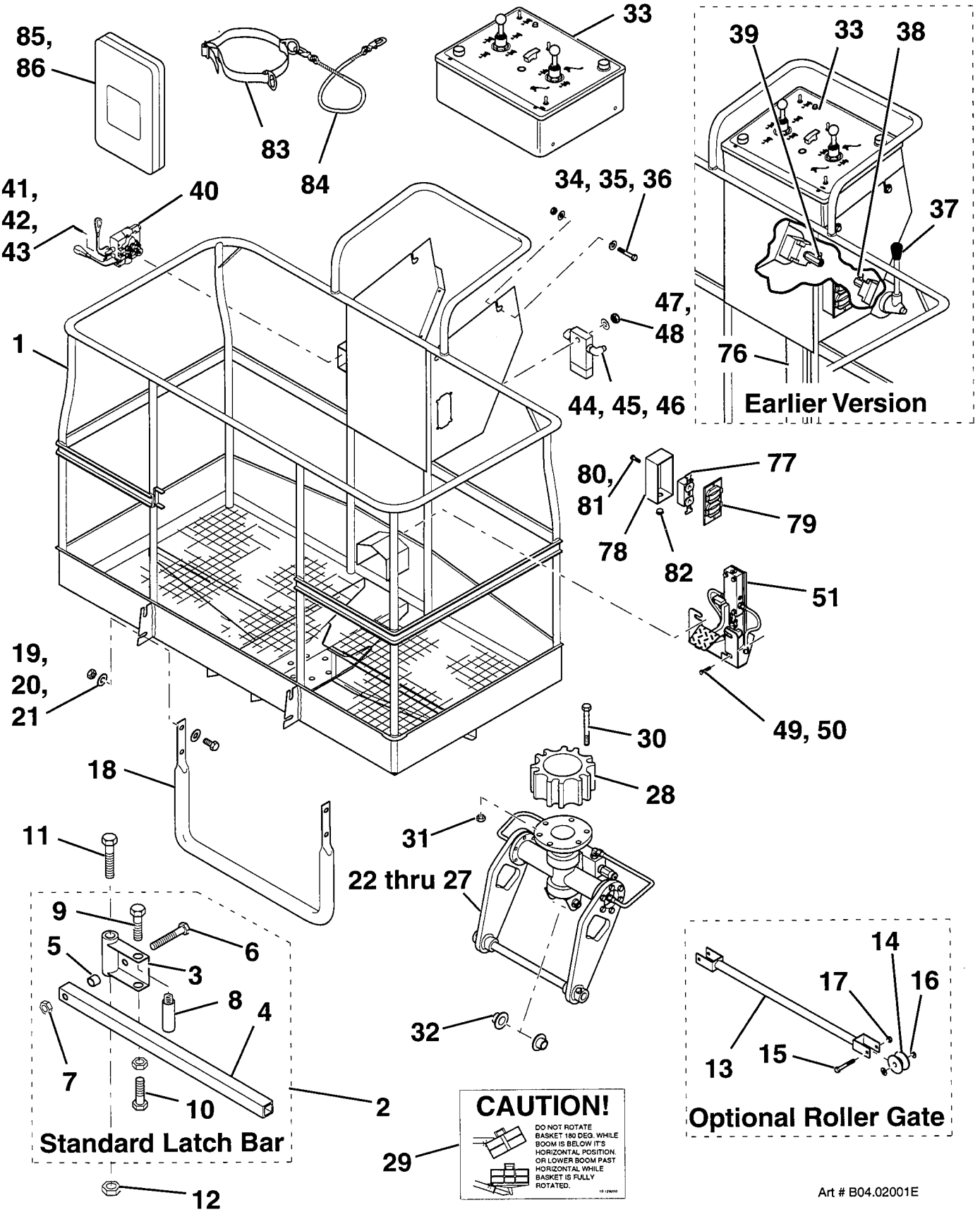
TITLE	BOOM ASSEMBLY, MP 60 (STRAIGHT TIP) (PLATE 4 OF 4)		
SIMON AERIALS INC.	REV. 27 OCT., 1992	PART NO. 3524370	PLATE NO. B03.35

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	

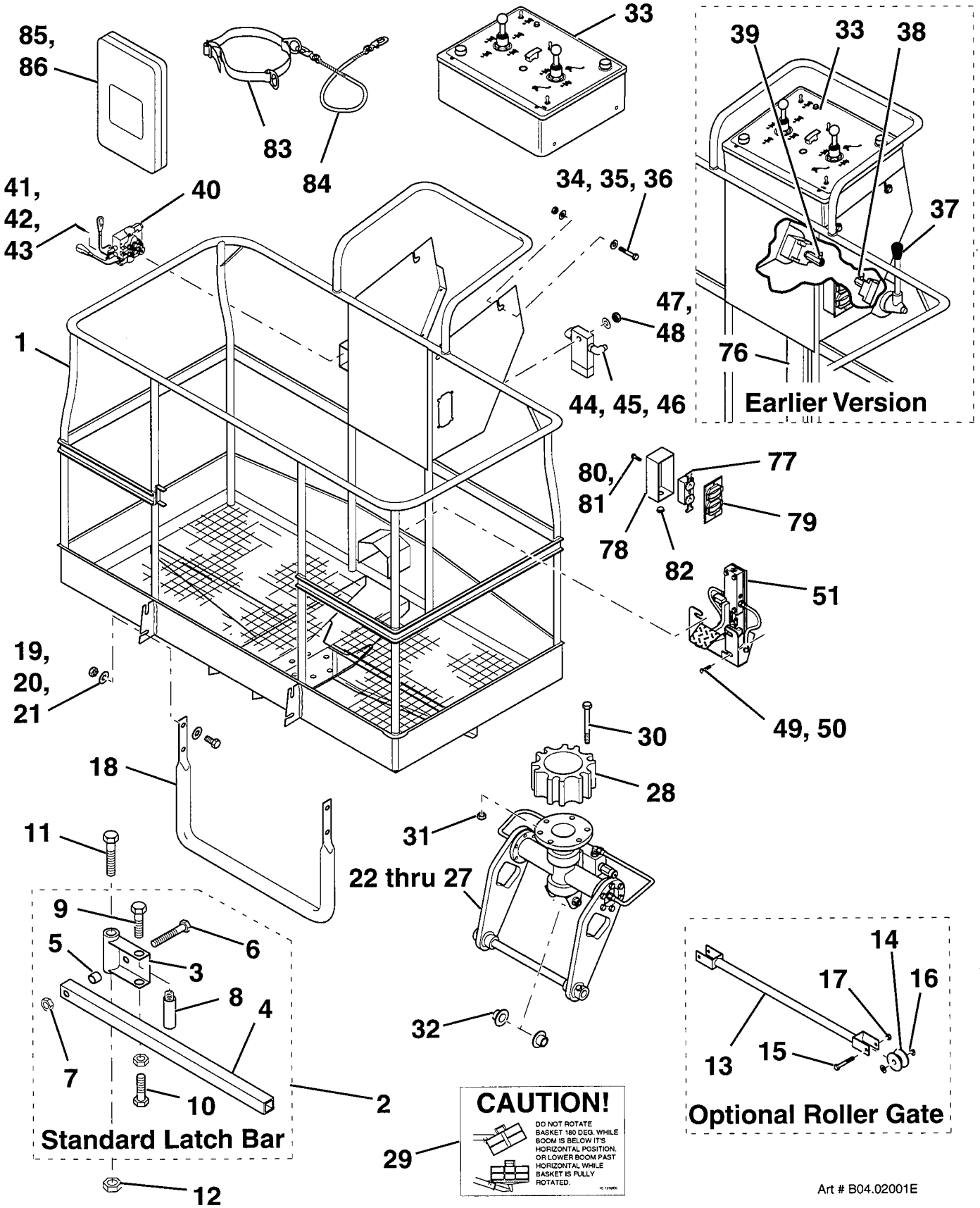


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 4)		
SIMON AERIALS INC.	REV. 07 DEC., 1994	PART NO.	PLATE NO. B04.02

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.	



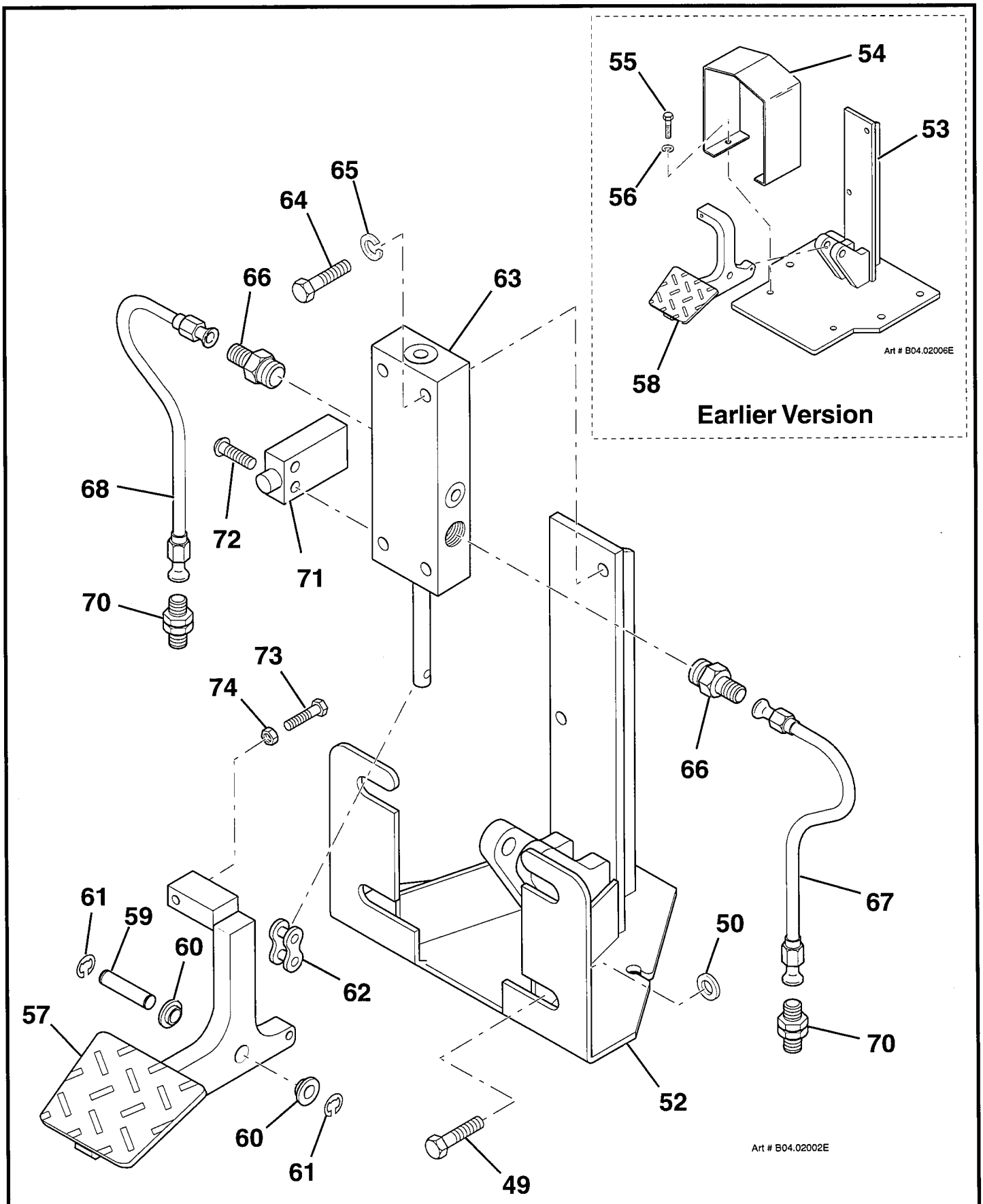
TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 4)		
SIMON AERIALS INC.	REV. 07 DEC., 1994	PART NO.	PLATE NO. B04.02

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

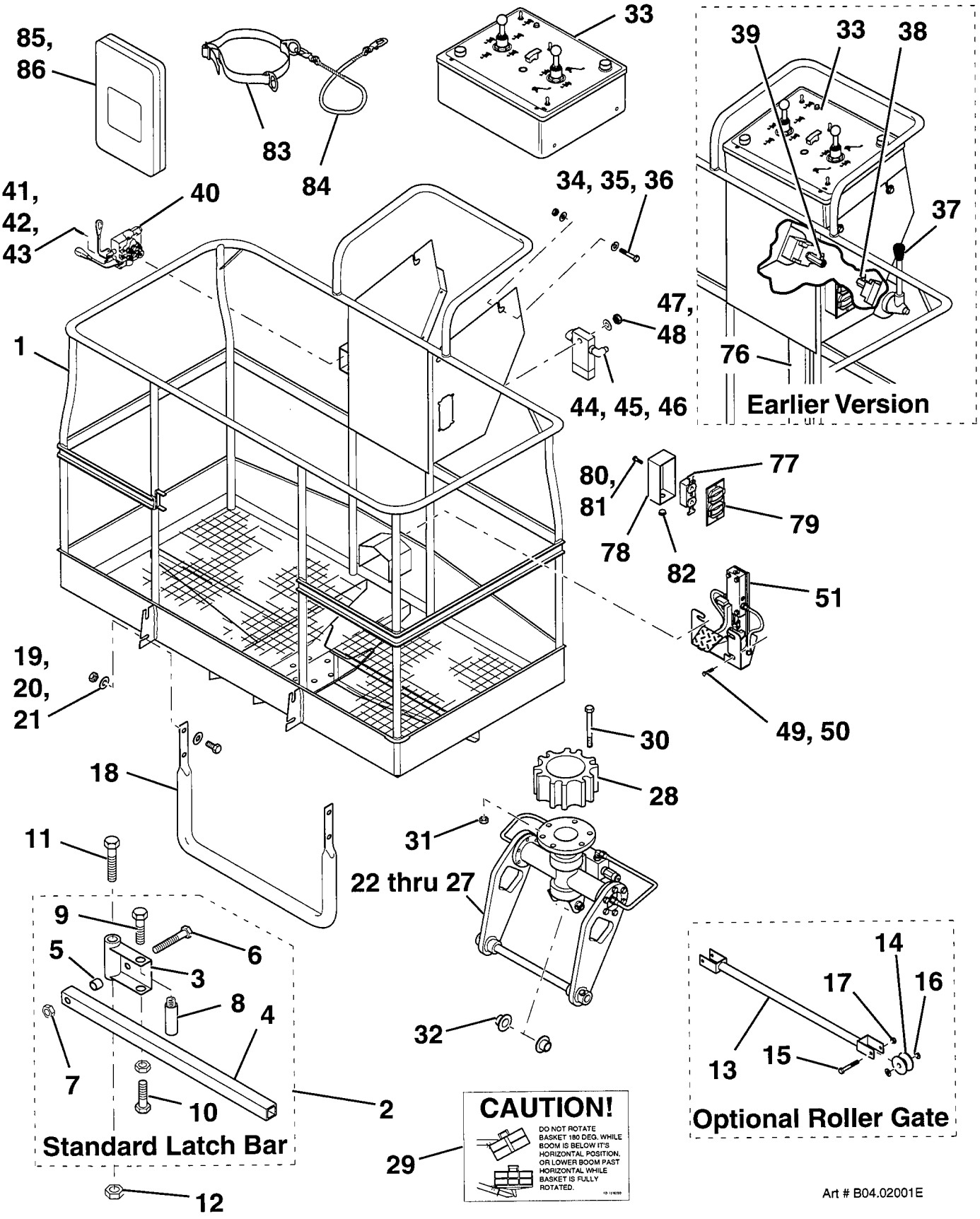


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 3 OF 4)		
SIMON AERIALS INC.	REV. 07 DEC., 1994	PART NO.	PLATE NO. B04.02

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)



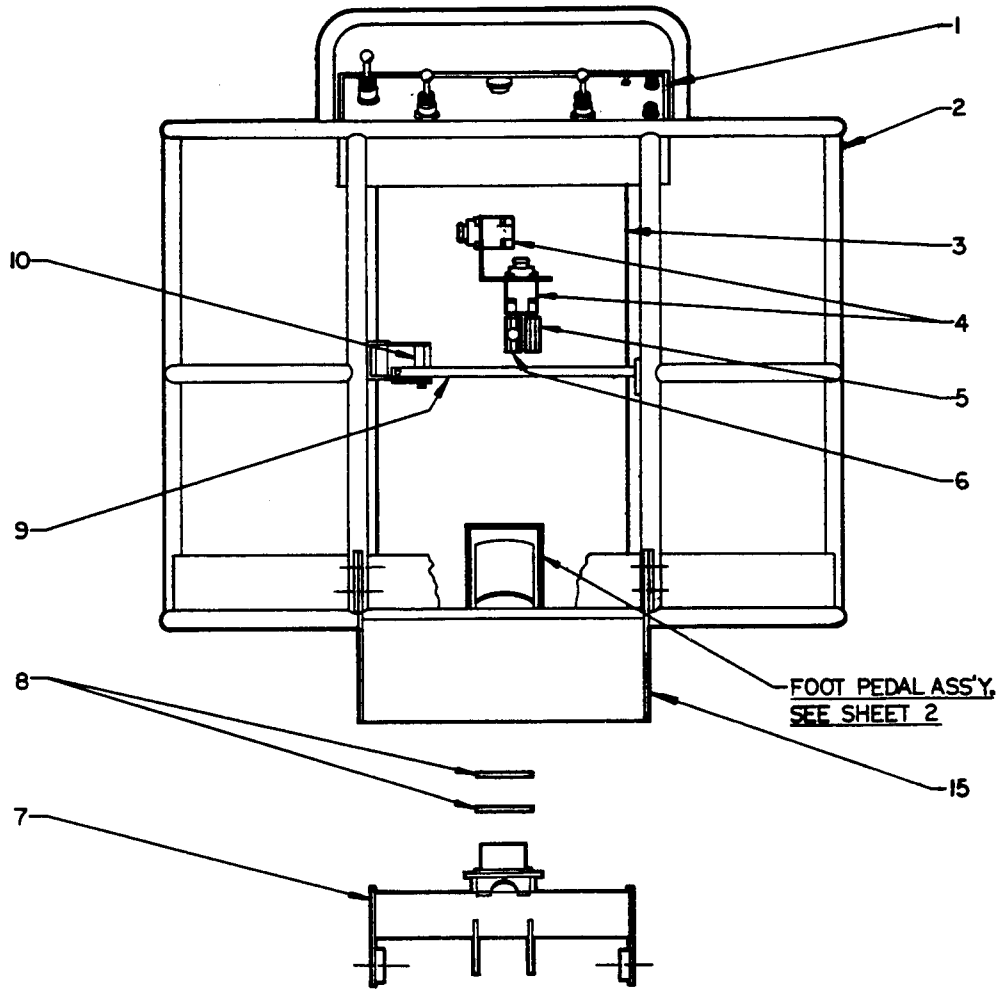
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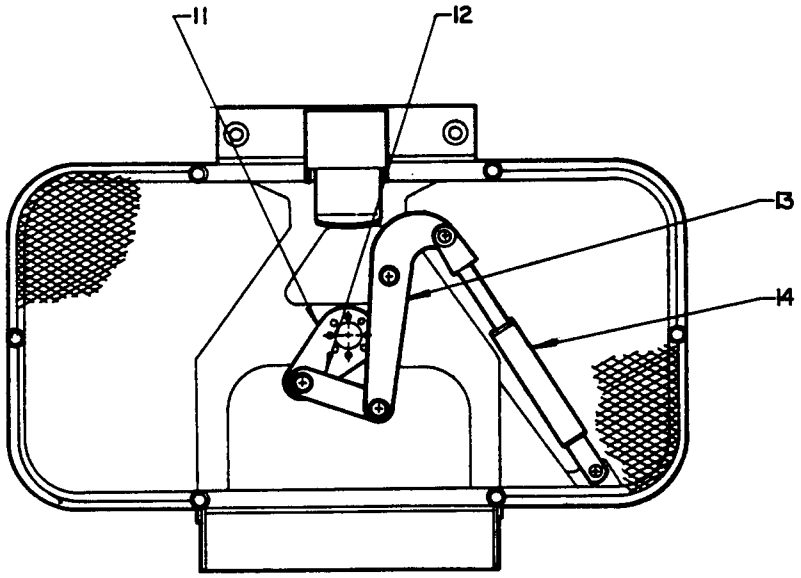
TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 4 OF 4)		
SIMON AERIALS INC.	REV. 07 DEC., 1994	PART NO.	PLATE NO. B04.02

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	SEE INDEX	C8	PLATFORM CONTROL CONSOLE ASSEMBLY	1
2			PLATFORM WELDMENT	1
3			CONSOLE WELDMENT	1
4	01-008000	D14.1	4-WAY MANUAL VALVE (ROTATE & LEVELING	2
5	01-020800		CHECK VALVE	1
6	01-000500		NEEDLE VALVE	1
7	SDW-200755-5		TRUNNION	1
8	SBD-201563-7		THRUST WASHER	2
9	SBD-204166-9		GATE	1
10	08-010100		SPRING	1
11	SLW-202032-3		PIVOT ARM	1
12	SBD-201567-3		MID LINK	1
13	SDW-202578-2		LEVER ARM	1
14	SEE INDEX	D23	ROTATE CYLINDER	1
15	SDW-202607-7		STEP	1
			NOT SHOWN:	
16	SDW-202552-4		DOOR - EARLY MODEL	1
17	SBW-201548-8		LATCH - EARLY MODEL	1

DESCRIPTION	PART NO.
PLATFORM ASSEMBLY	CAA-207229-8





TOP VIEW OF FLOOR

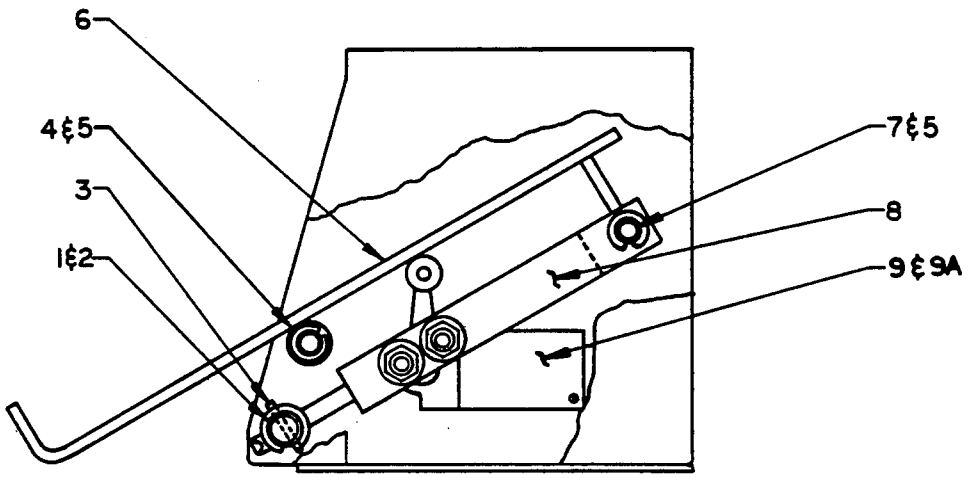
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DESCRIPTION	PART NO.
PLATFORM ASSEMBLY	CAA-207229-8

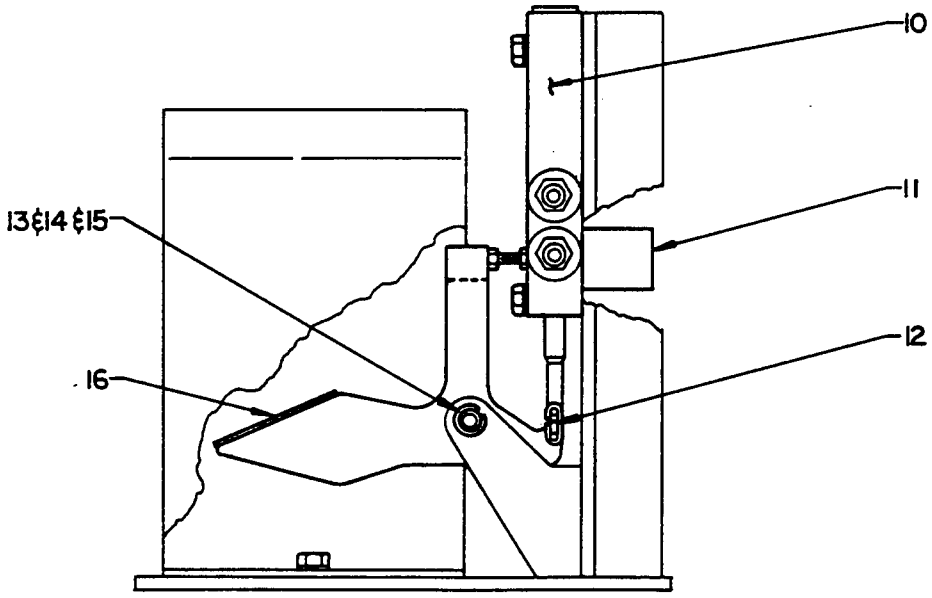
PARTS LIST

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



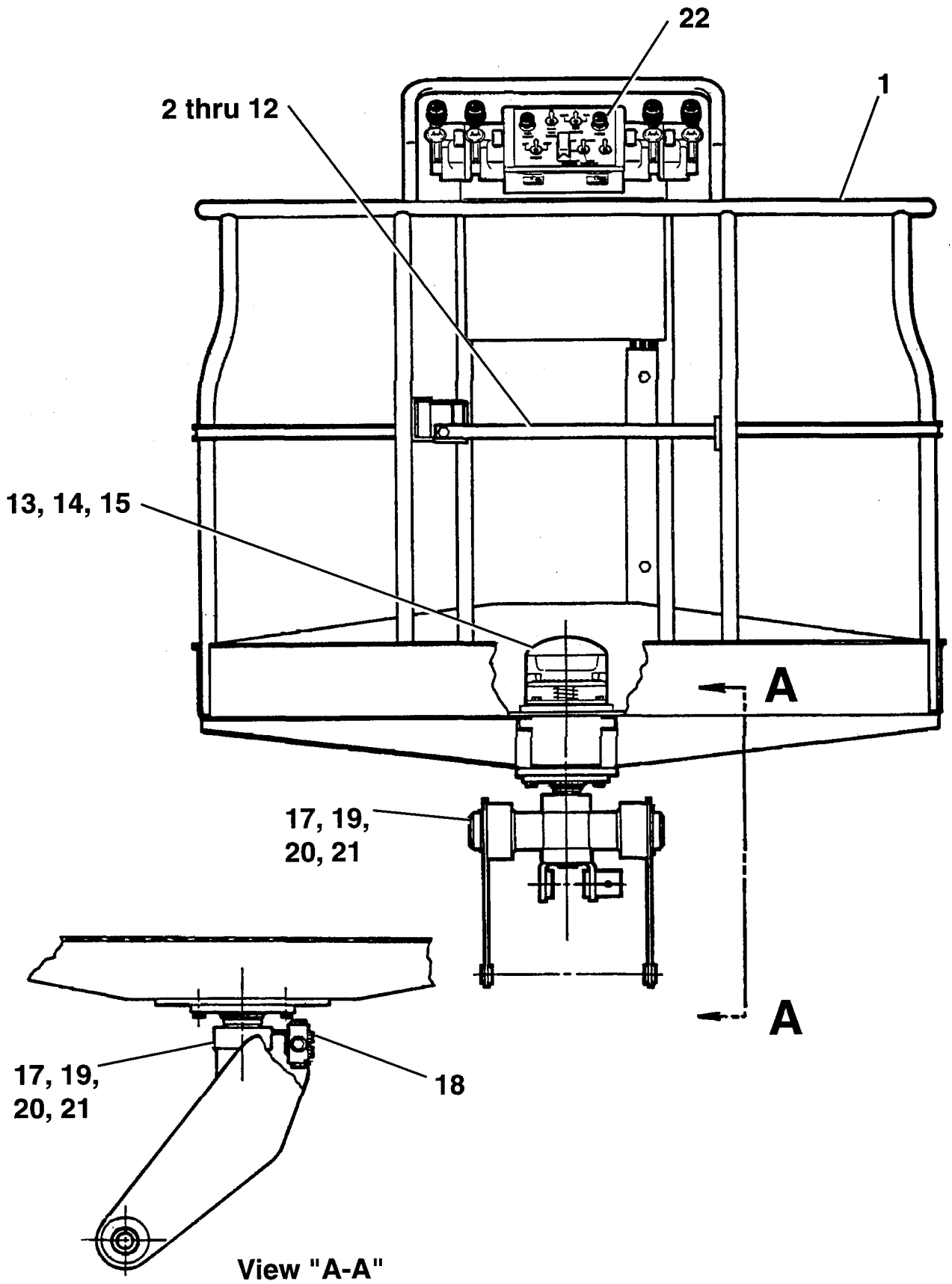
FOOT PEDAL ASS'Y. ~ LATE MODEL

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): **MP** Series (36" x 72" [.91 M x 1.83 M]) (**Standard**) **MPN** Series (36" x 60" [.91 M x 1.52 M]) (**Standard**)	
	211 7610 211 7550			
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.**

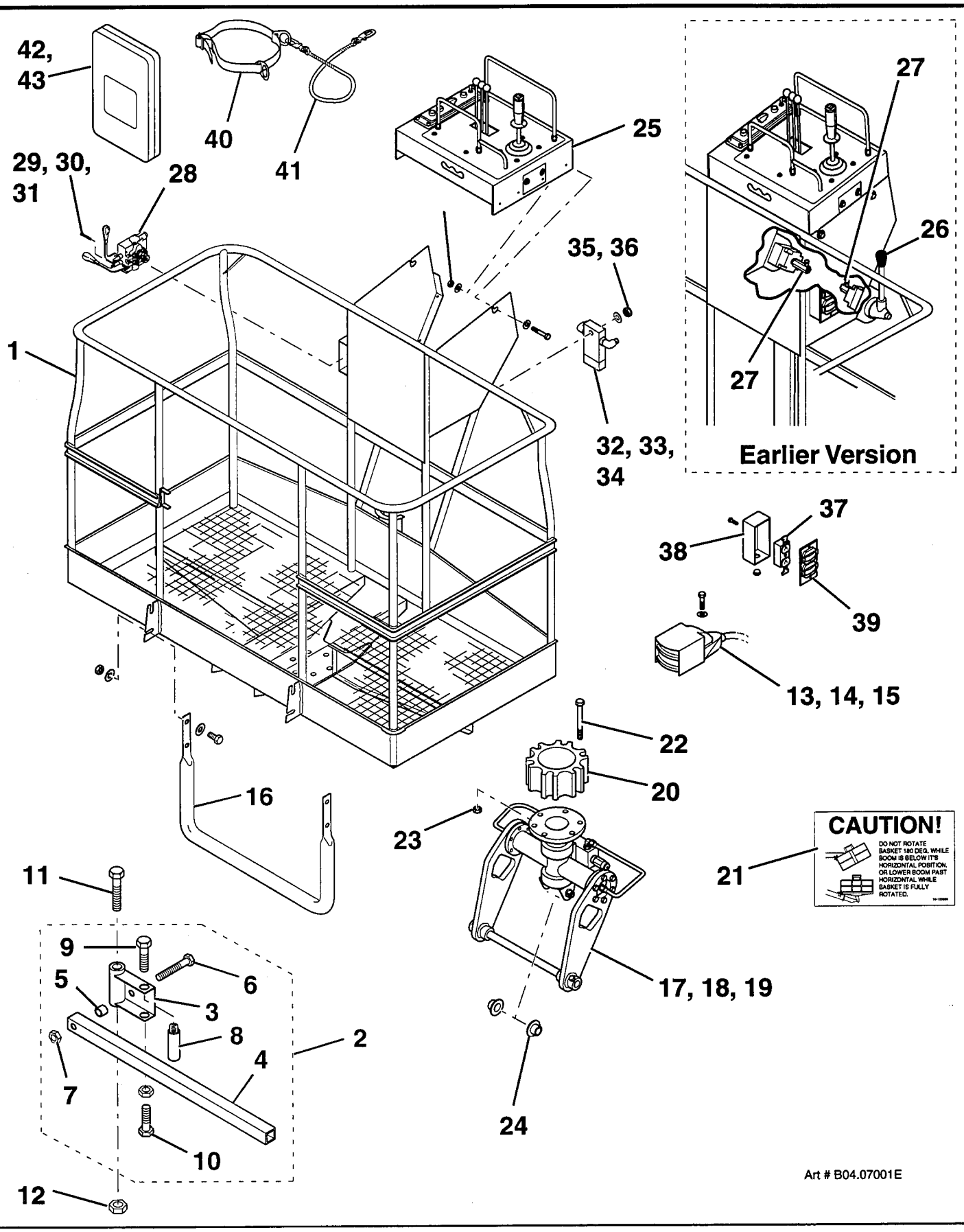


TITLE	PLATFORM ASSEMBLY, MP SERIES		
SIMON AERIALS INC. REV. 01 DEC., 1994		PART NO.	PLATE NO. B04.06

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.

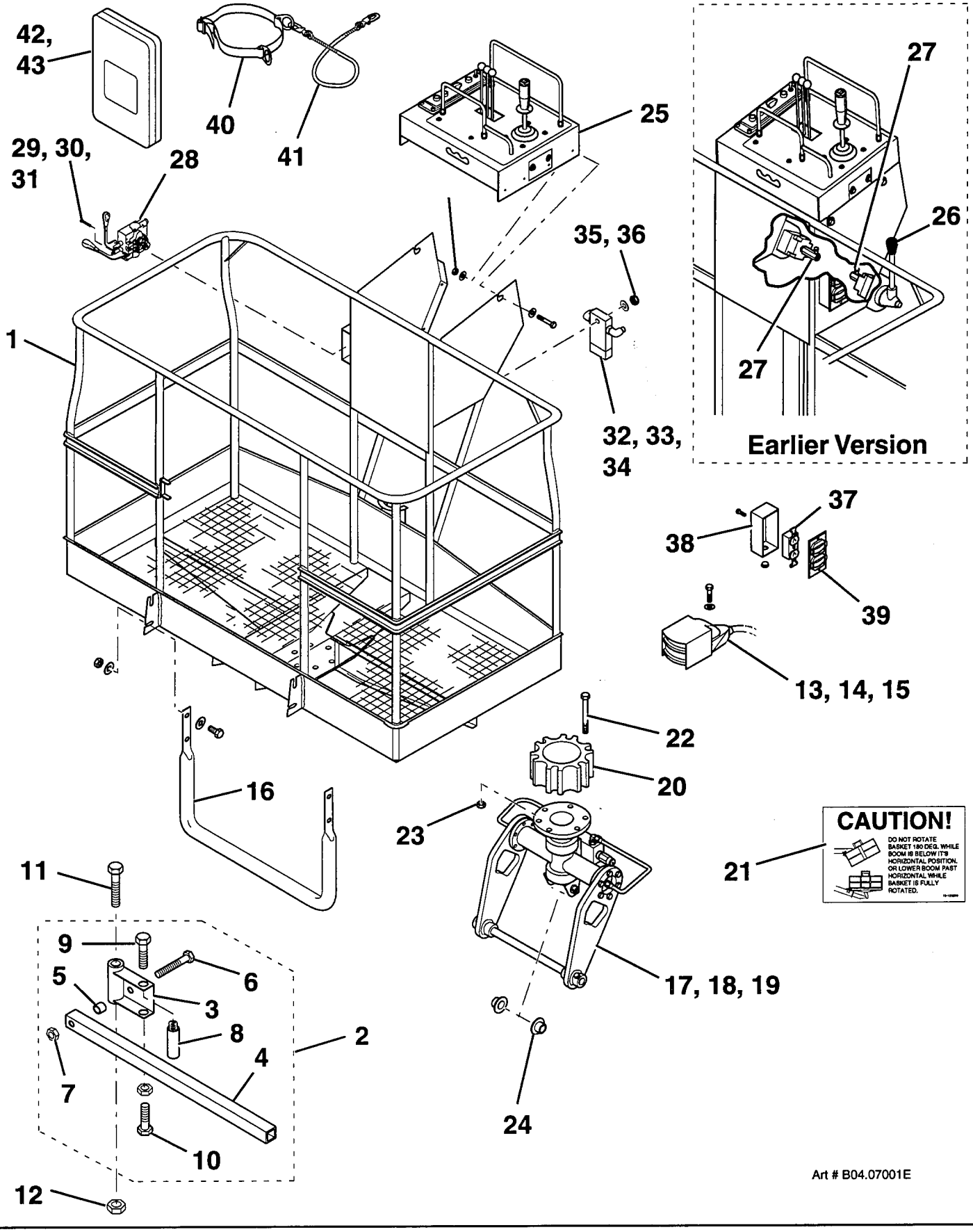


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 2)		
SIMON AERIALS INC.	NEW 01 DEC., 1994	PART NO.	PLATE NO. B04.07

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.**

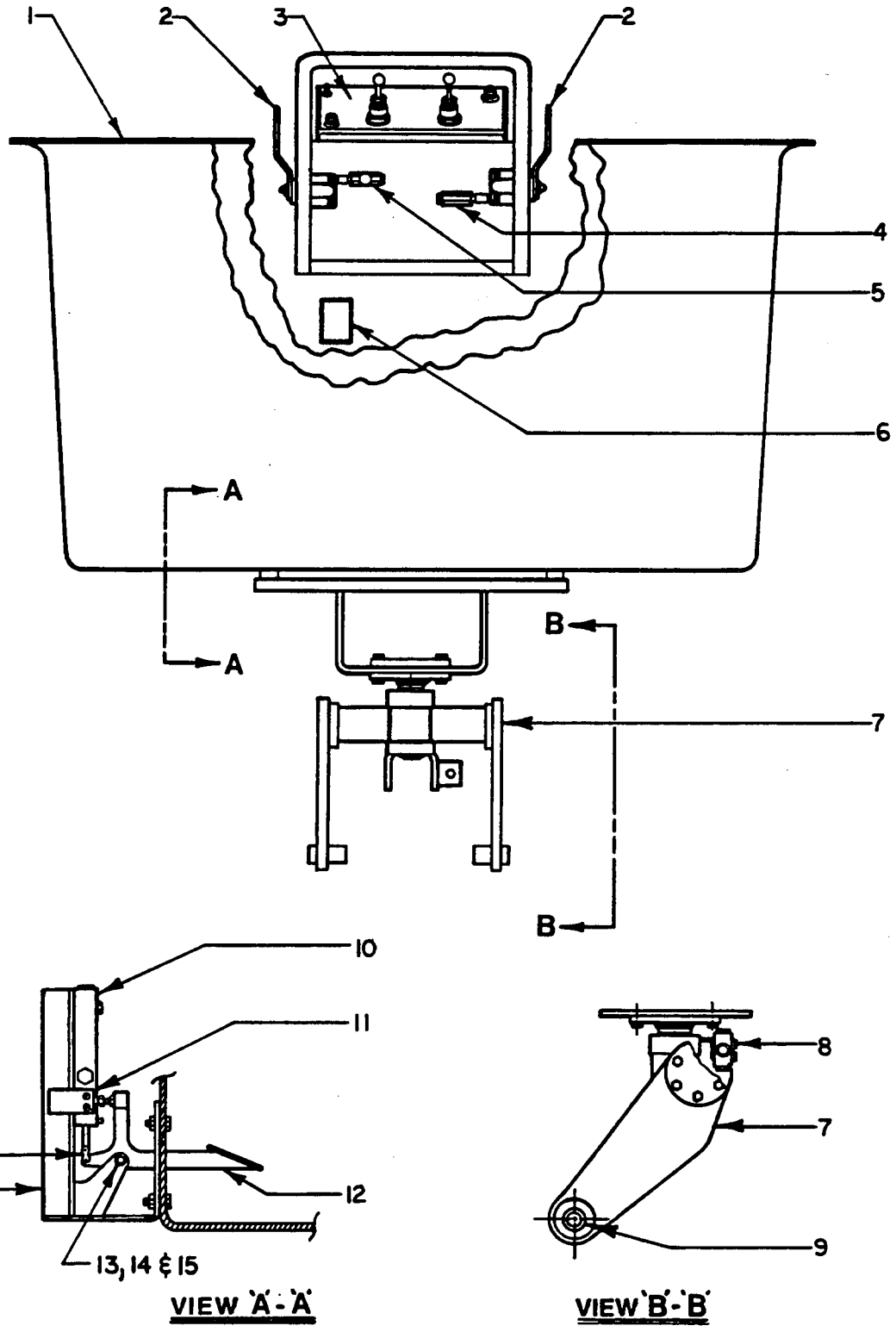


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 2)		
SIMON AERIALS INC.	NEW 01 DEC., 1994	PART NO.	PLATE NO. B04.07

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	206 1164		PLATFORM, INSULATED (Fibreglass)	1
2	01-008000	D14.01	4-WAY MANUAL VALVE (Platform level or rotate)	2
3	See Index . .	C08. - -	PLATFORM CONTROL CONSOLE ASSEMBLY	1
4	01-020800		VALVE, CHECK	1
5	01-000500		VALVE, NEEDLE	1
6	03-010005		BATTERY (Gel Cell)	1
7	02-010600	D24.06	ROTARY ACTUATOR	1
8	01-001900		VALVE, DOUBLE LOCK	1
9	08-002500		BUSHING, SLEEVE	2
10	See Index . .	D05. - -	HPC VALVE	1
11	03-026600		SWITCH, LIMIT	1
12	200 5146		FOOT PEDAL	1
13	203 3893		PIN	1
14	08-047000		RING, SNAP	2
15	08-010500		BEARING, FLANGED	2
16	205 6920		BRACKET, FOOT PEDAL MOUNTING	1
17	08-010200		LINK ASSEMBLY	1

TITLE	INSULATED PLATFORM ASSEMBLY			
PLATE NO. B04.08	**SIMON AERIALS INC.**	REV. 13 MAR., 1995 THIS SHEET ONLY	PART NO.	350 9849



VIEW 'A-A'

VIEW 'B-B'

0486/0386

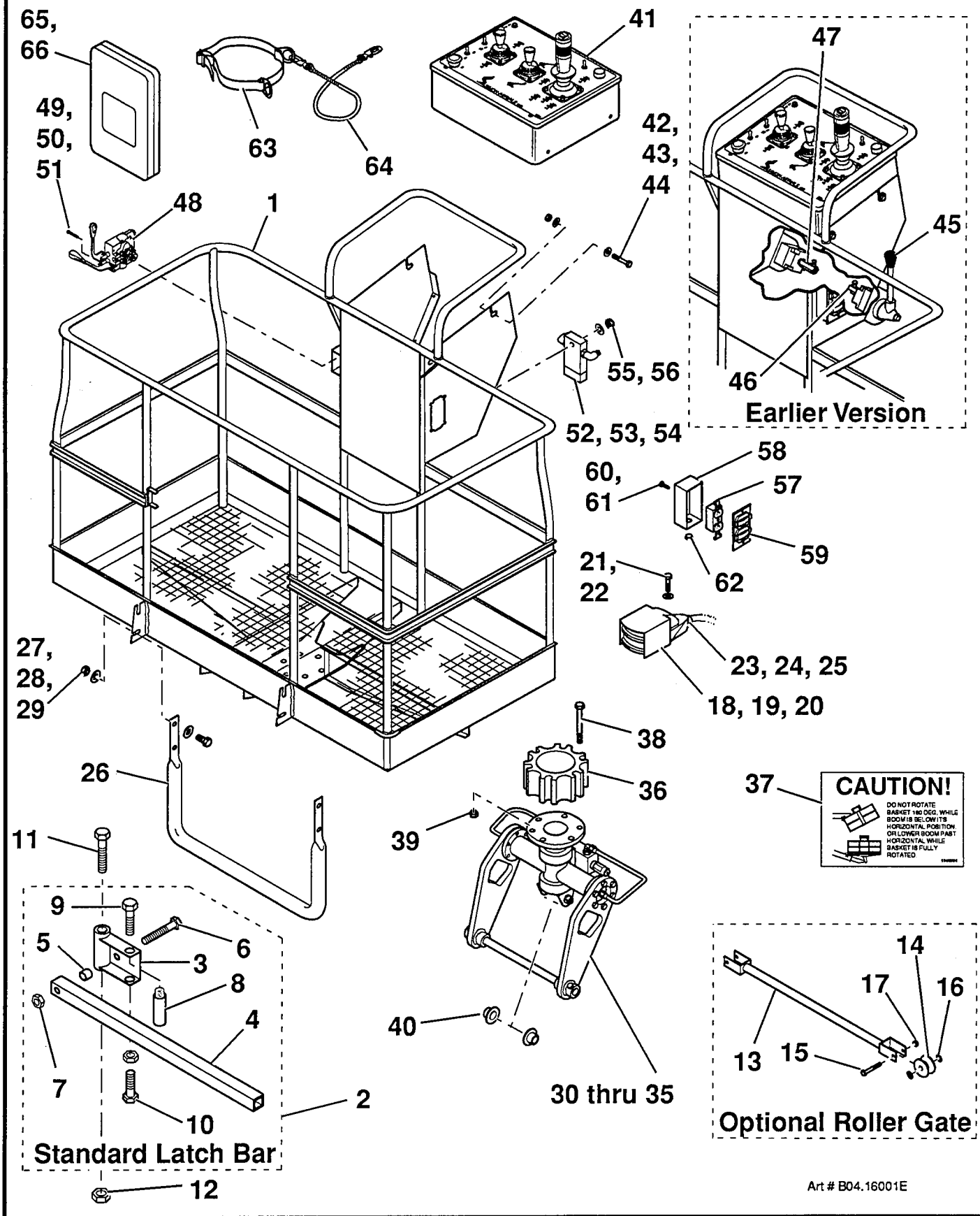
DESCRIPTION	PART NO.
INSULATED PLATFORM ASSEMBLY	A-D3509849

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			PLATFORM WELDMENT	
			(Standard type, with Rotary Actuator mounted **under** floor)	1
			For **"Type 2" Electro-Proportional** controls (with 3	
			"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.



Art # B04.16001E

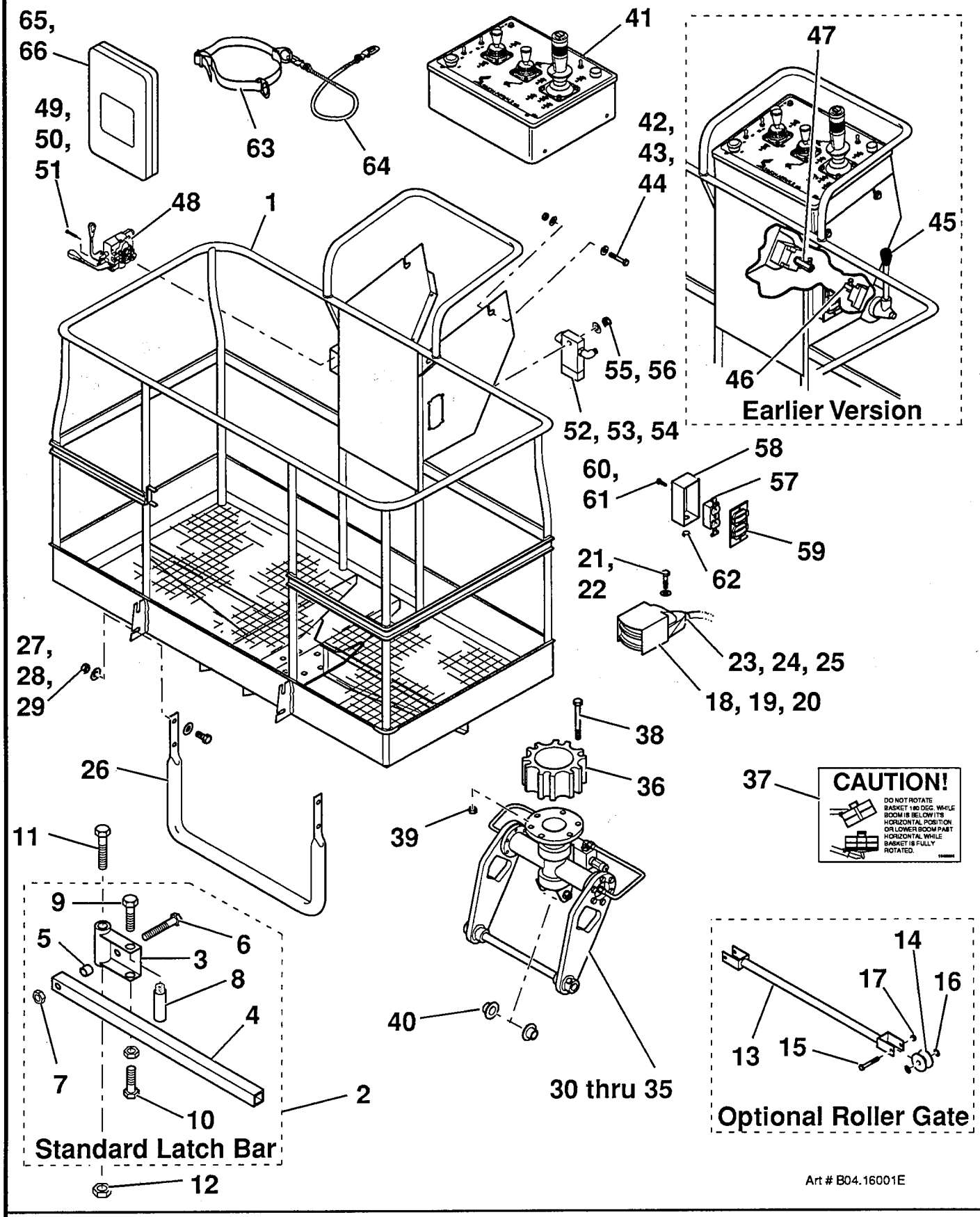
TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 3)		
SIMON AERIALS INC. NEW 01 DEC., 1994		PART NO.	PLATE NO. B04.16

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)

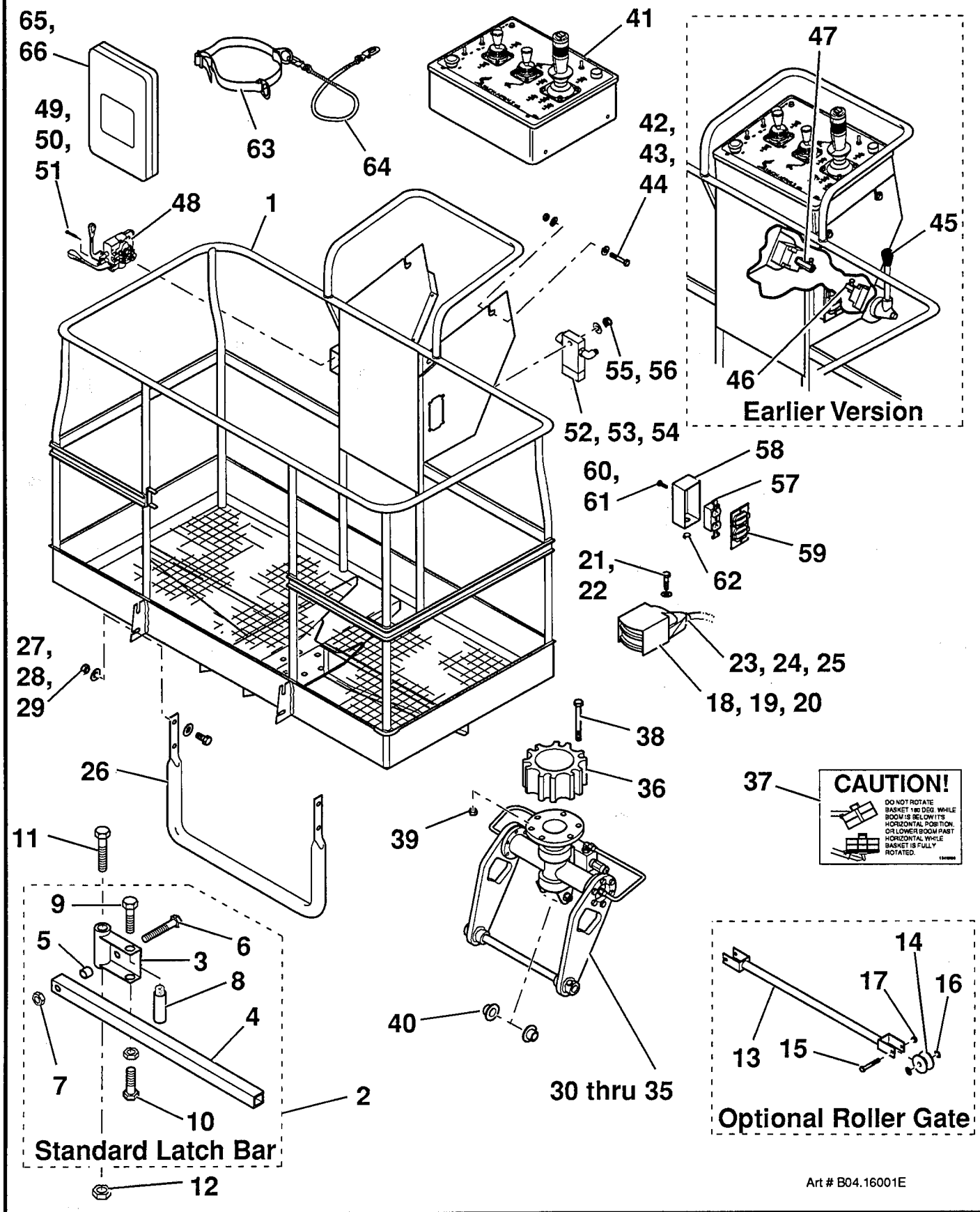
SIMON AERIALS INC. NEW 01 DEC., 1994	PART NO.	PLATE NO. B04.16

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.



Art # B04.16001E

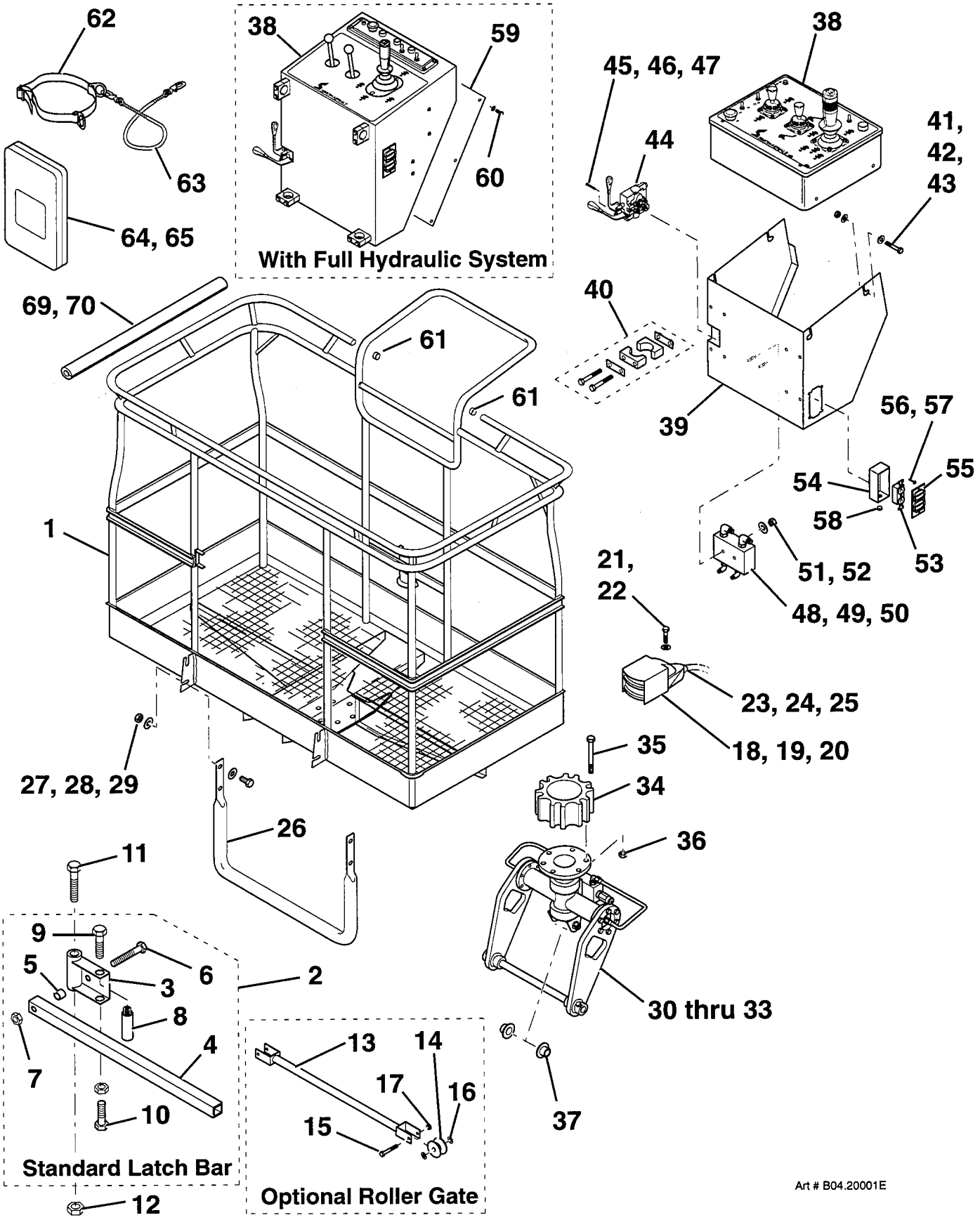
TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 3 OF 3)		
SIMON AERIALS INC.	NEW 01 DEC., 1994	PART NO.	PLATE NO. B04.16

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.**



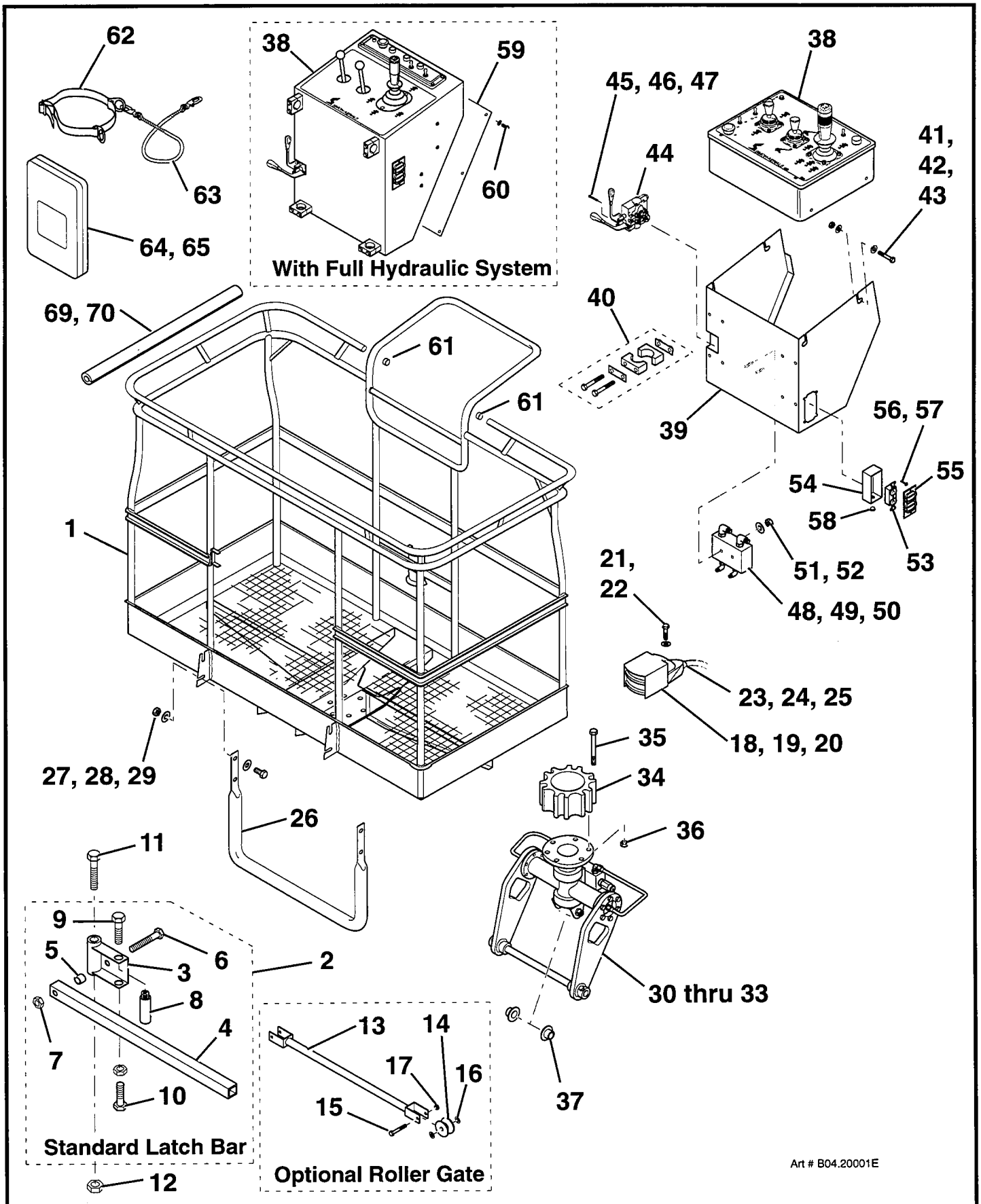
TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 1 OF 3)		
SIMON AERIALS INC.	REV. 28 FEB., 1995	PART NO.	PLATE NO. B04.20

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

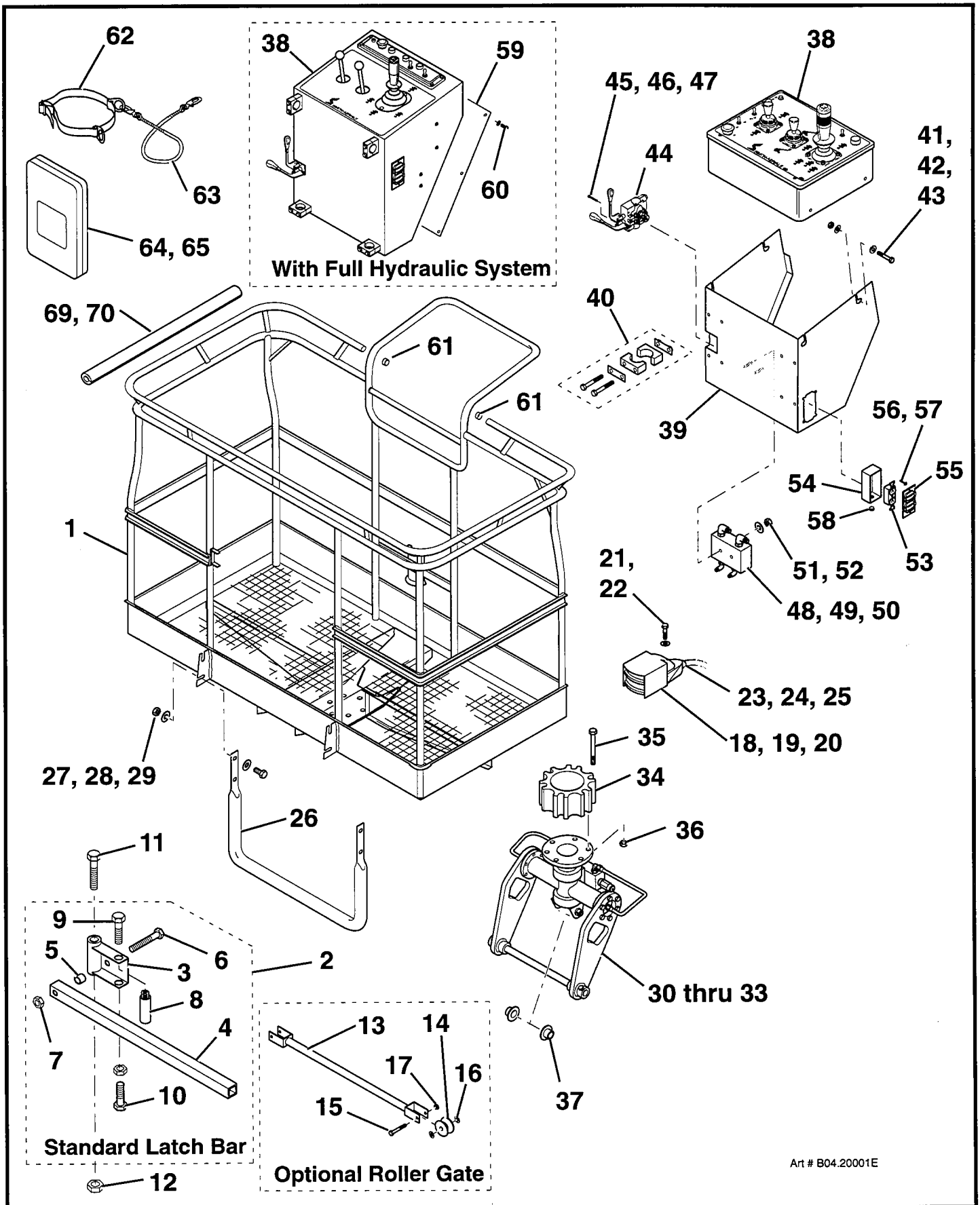


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 2 OF 3)		
SIMON AERIALS INC.	REV. 28 FEB., 1995	PART NO.	PLATE NO. B04.20

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.**

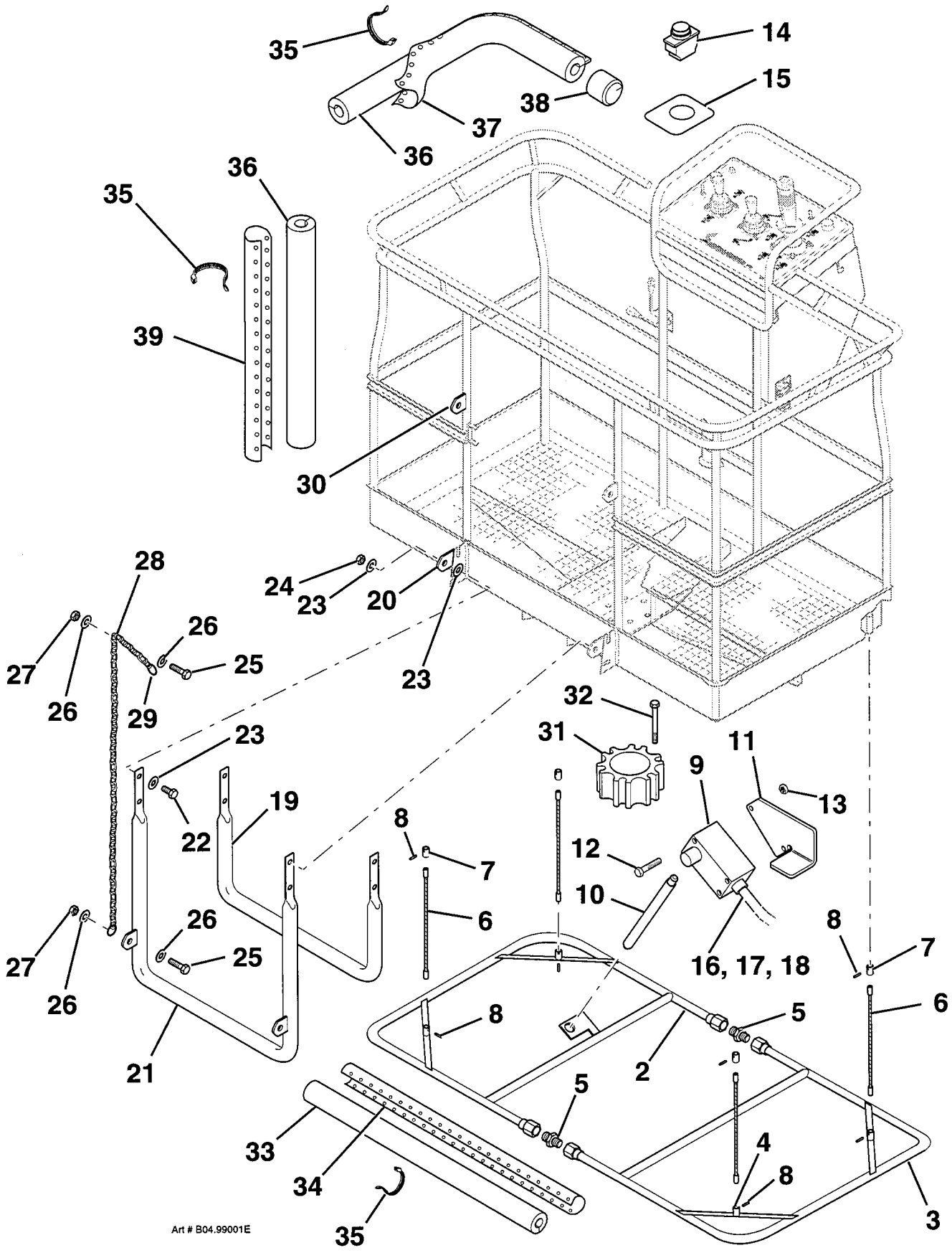


TITLE	PLATFORM ASSEMBLY, MP SERIES (PLATE 3 OF 3)		
SIMON AERIALS INC.	REV. 28 FEB., 1995	PART NO.	PLATE NO. B04.20

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.

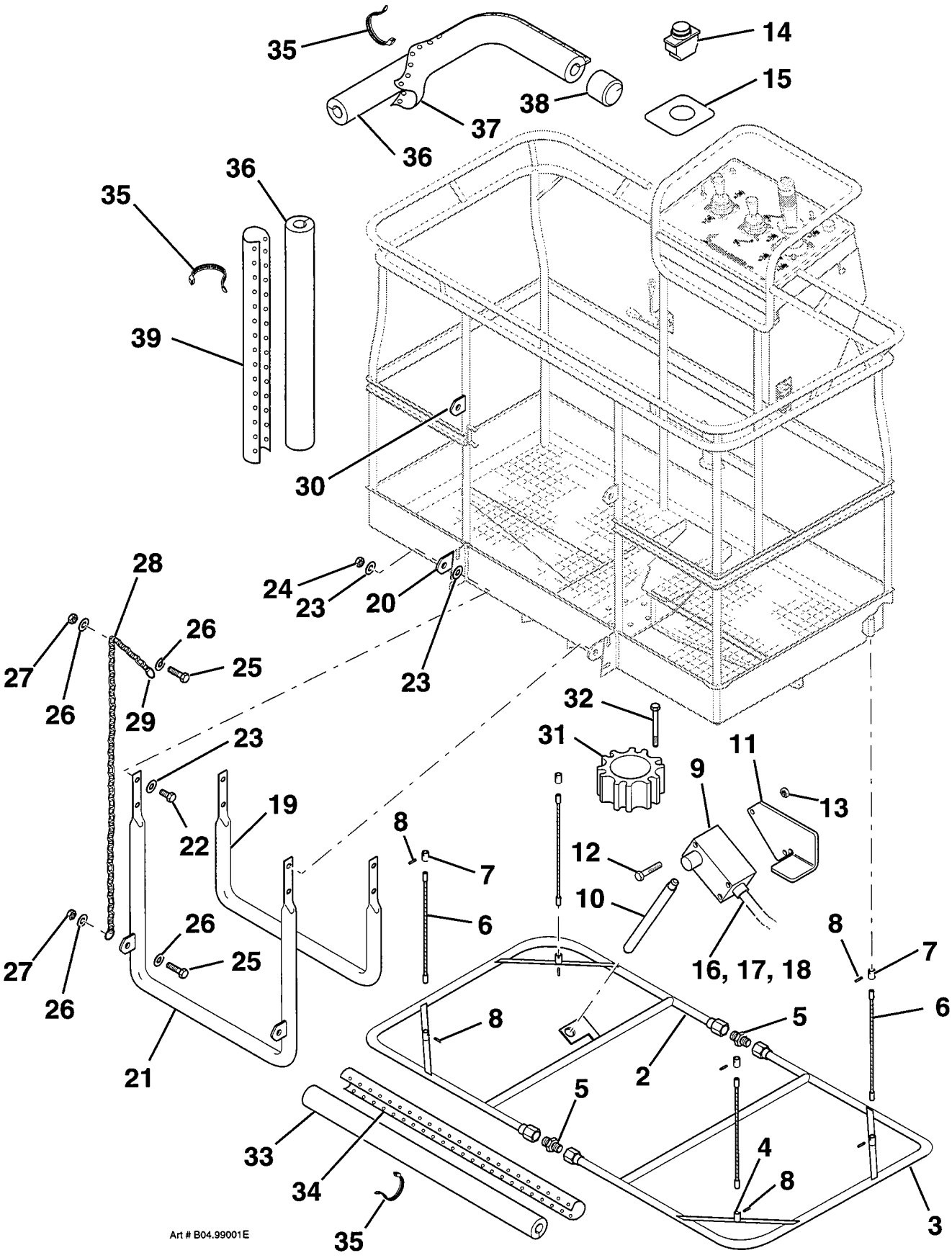


TITLE	PLATFORM SENSOR RING ASSEMBLY (PLATE 1 OF 2)		
SIMON AERIALS INC. NEW 23 MAR., 1995		**PART NO.**	**PLATE NO.** B04.99

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.

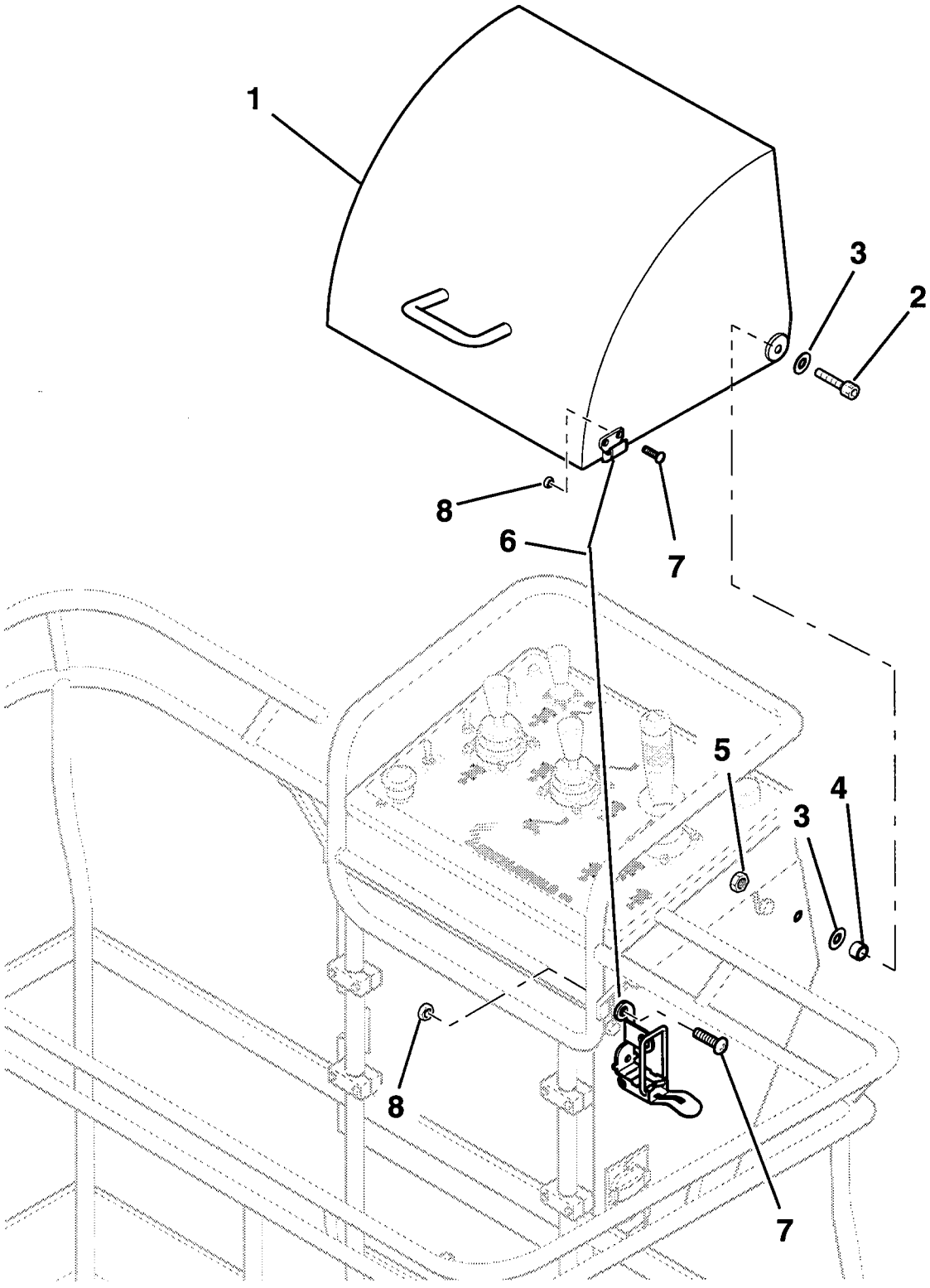


TITLE	PLATFORM SENSOR RING ASSEMBLY (PLATE 2 OF 2)		
SIMON AERIALS INC. NEW 23 MAR., 1995		**PART NO.**	**PLATE NO.** B04.99

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

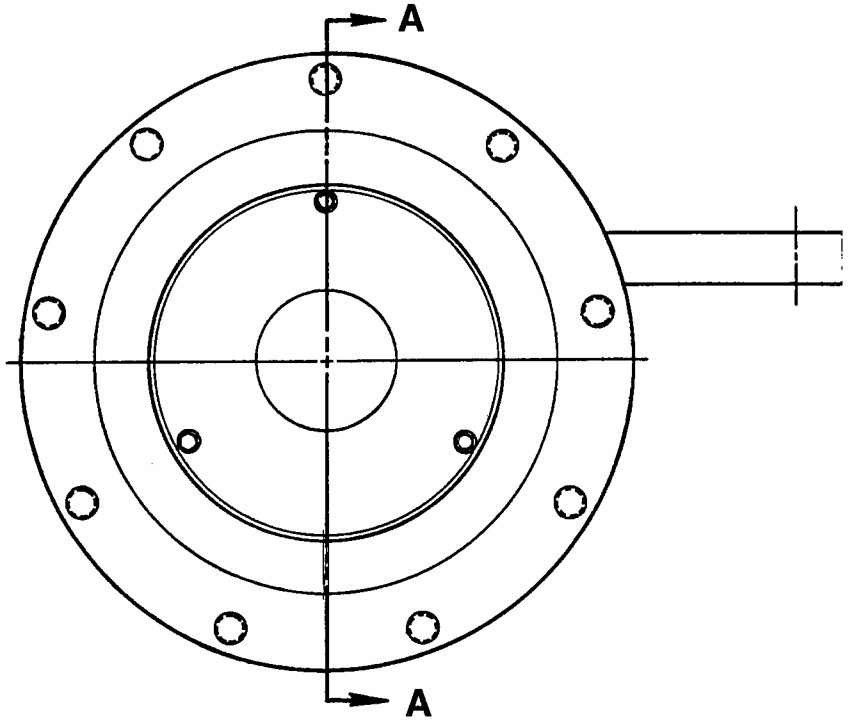
TITLE	PLATFORM CONSOLE COVER ASSEMBLY, MP/ RP SERIES		
SIMON AERIALS INC. REV. 27 OCT., 1994		PART NO. 2326440	PLATE NO. B04.299

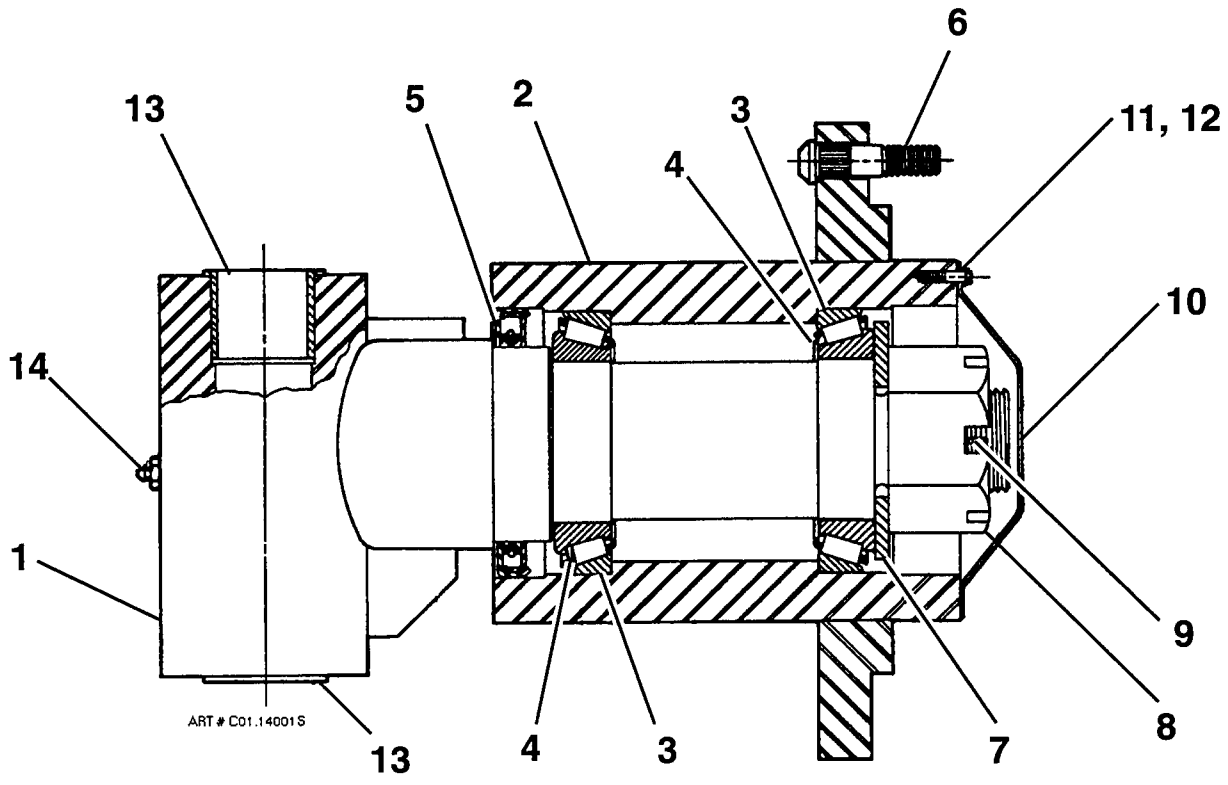
PARTS LIST

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.			PART NO.
C01.05	**SIMON AERIALS INC.**	REV. 12 MAR., 1993	





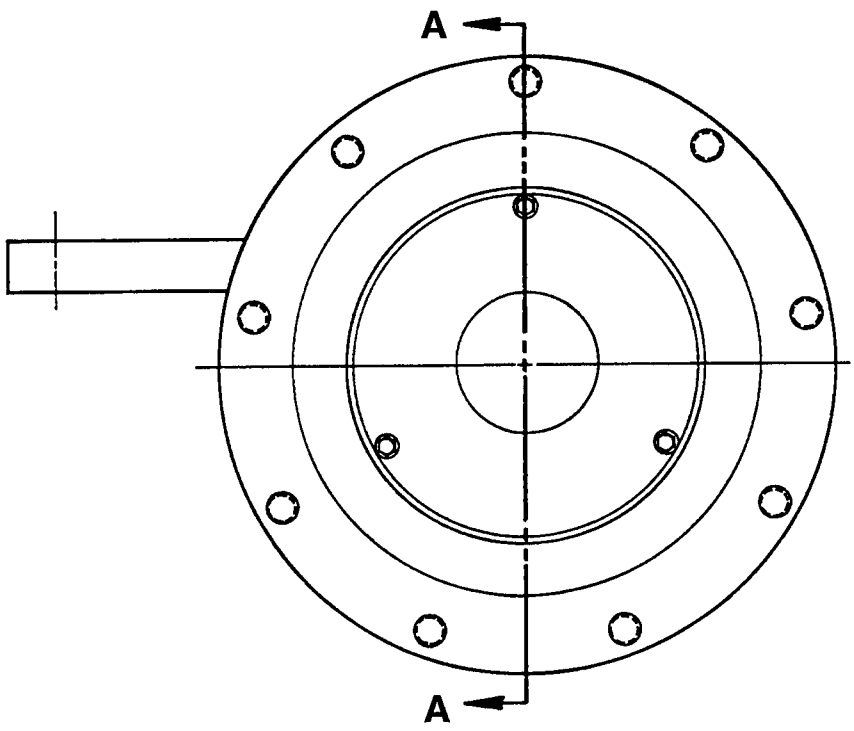
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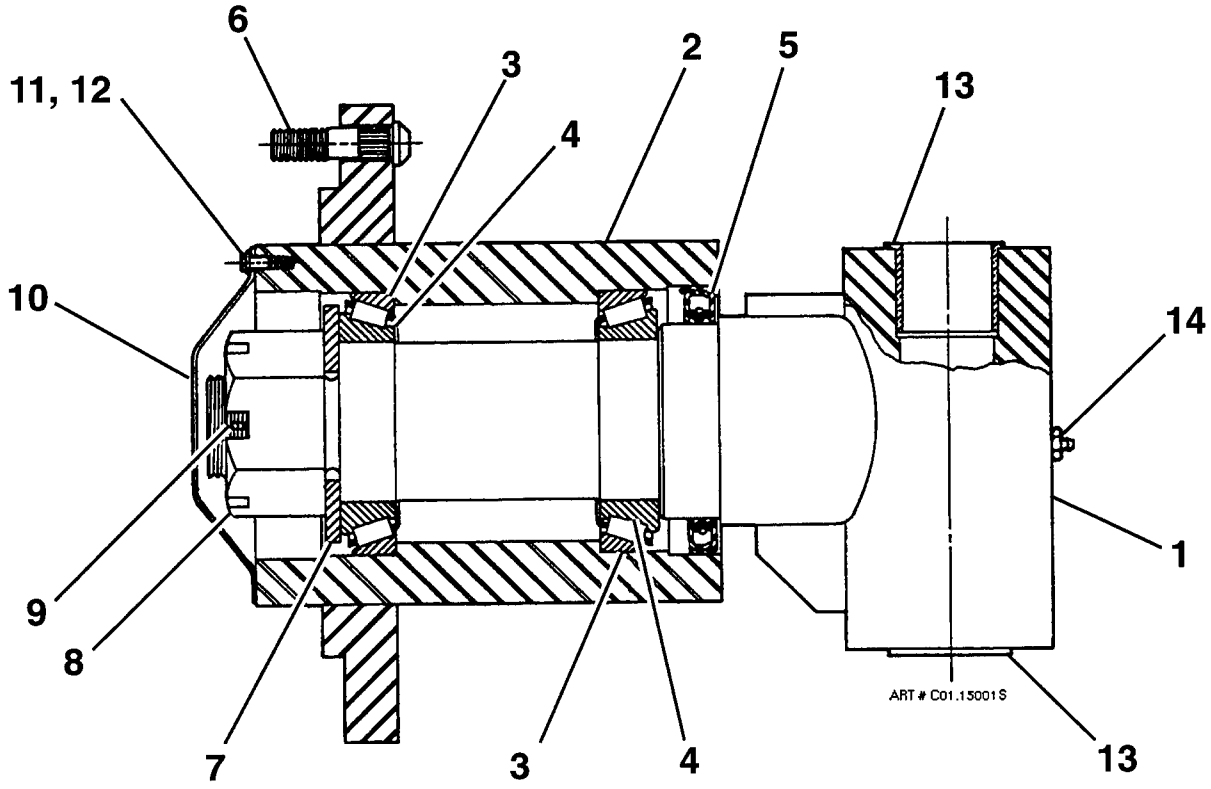
TITLE	SPINDLE ASSEMBLY, RIGHT HAND		
SIMON AERIALS INC. REV. 12 MAR., 1993		PART NO.	PLATE NO. C01.05

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.**





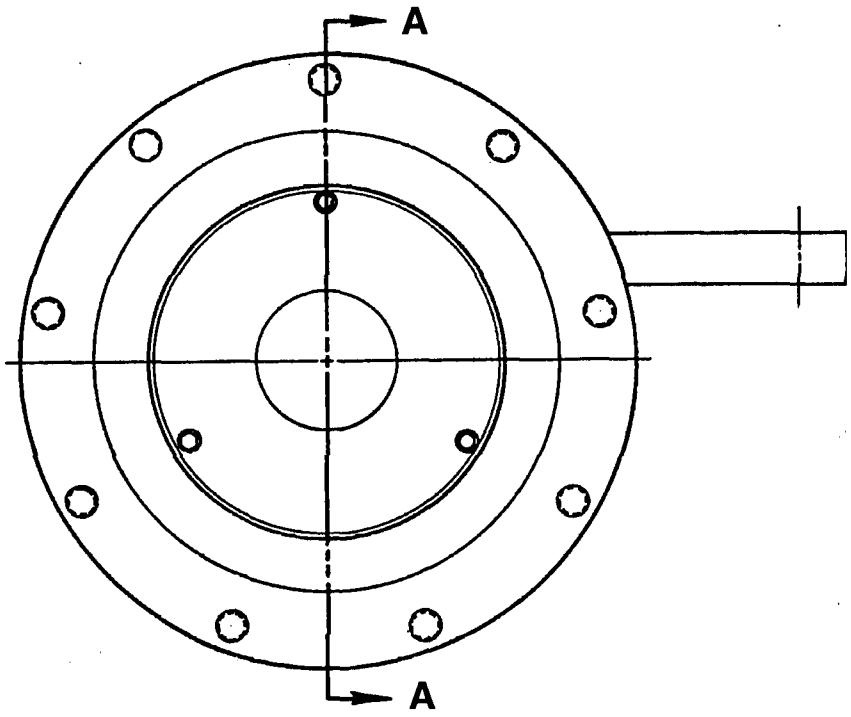
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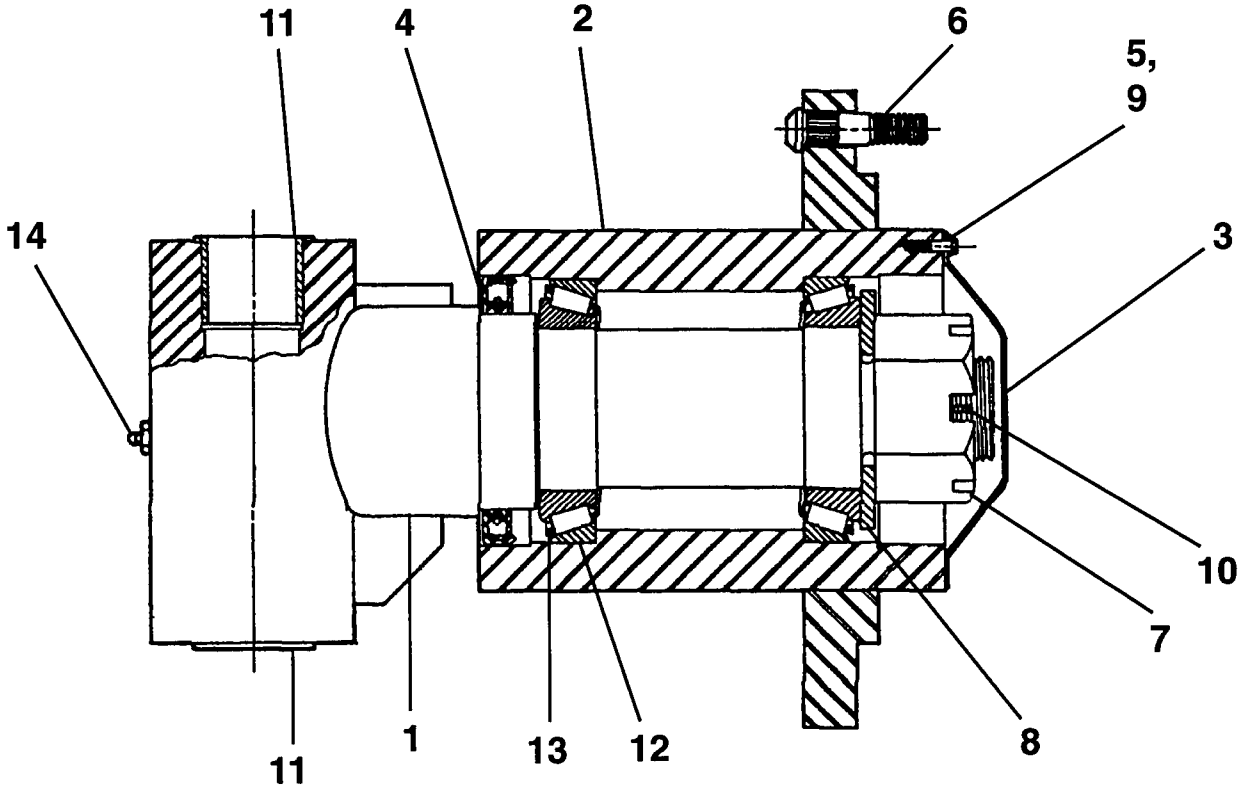
TITLE	SPINDLE ASSEMBLY, LEFT HAND		
SIMON AERIALS INC. REV. 12 MAR., 1993		PART NO.	PLATE NO. C01.06

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





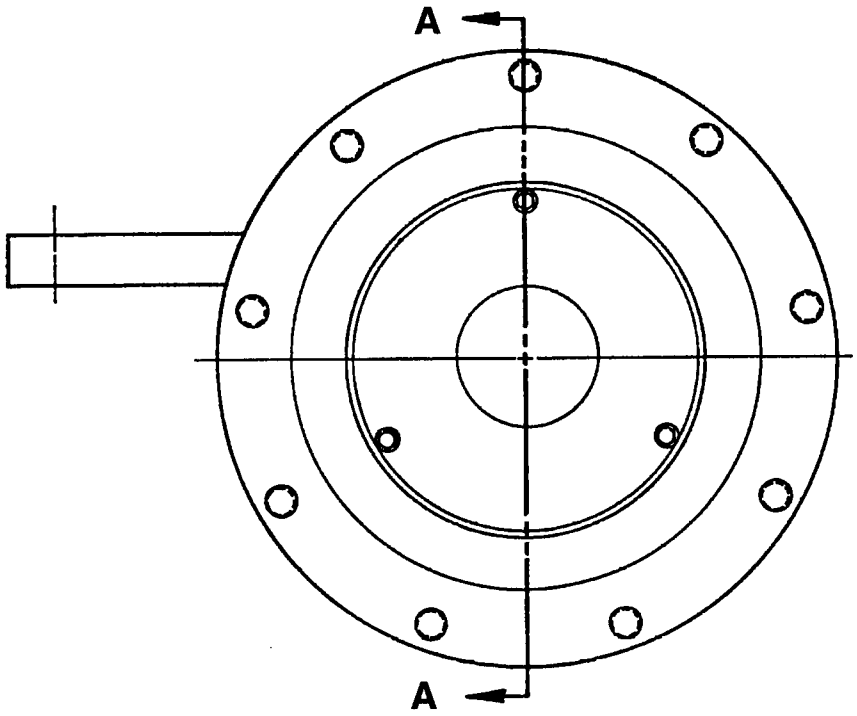
SECTION 'A' - 'A'

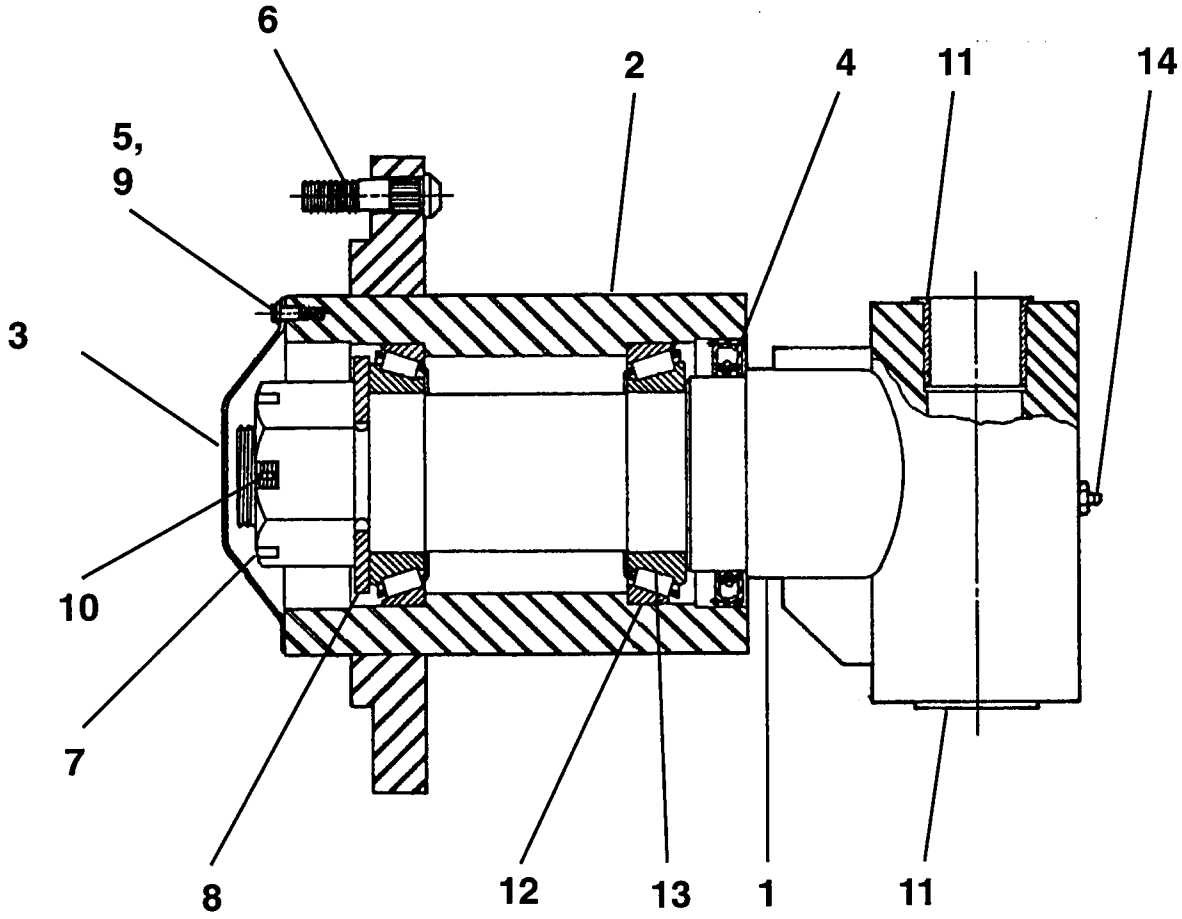
TITLE	SPINDLE ASSEMBLY, RIGHT HAND		
SIMON AERIALS INC. REV. 10 OCT. 1994		PART NO. 206181-2	PLATE NO. C01.09

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





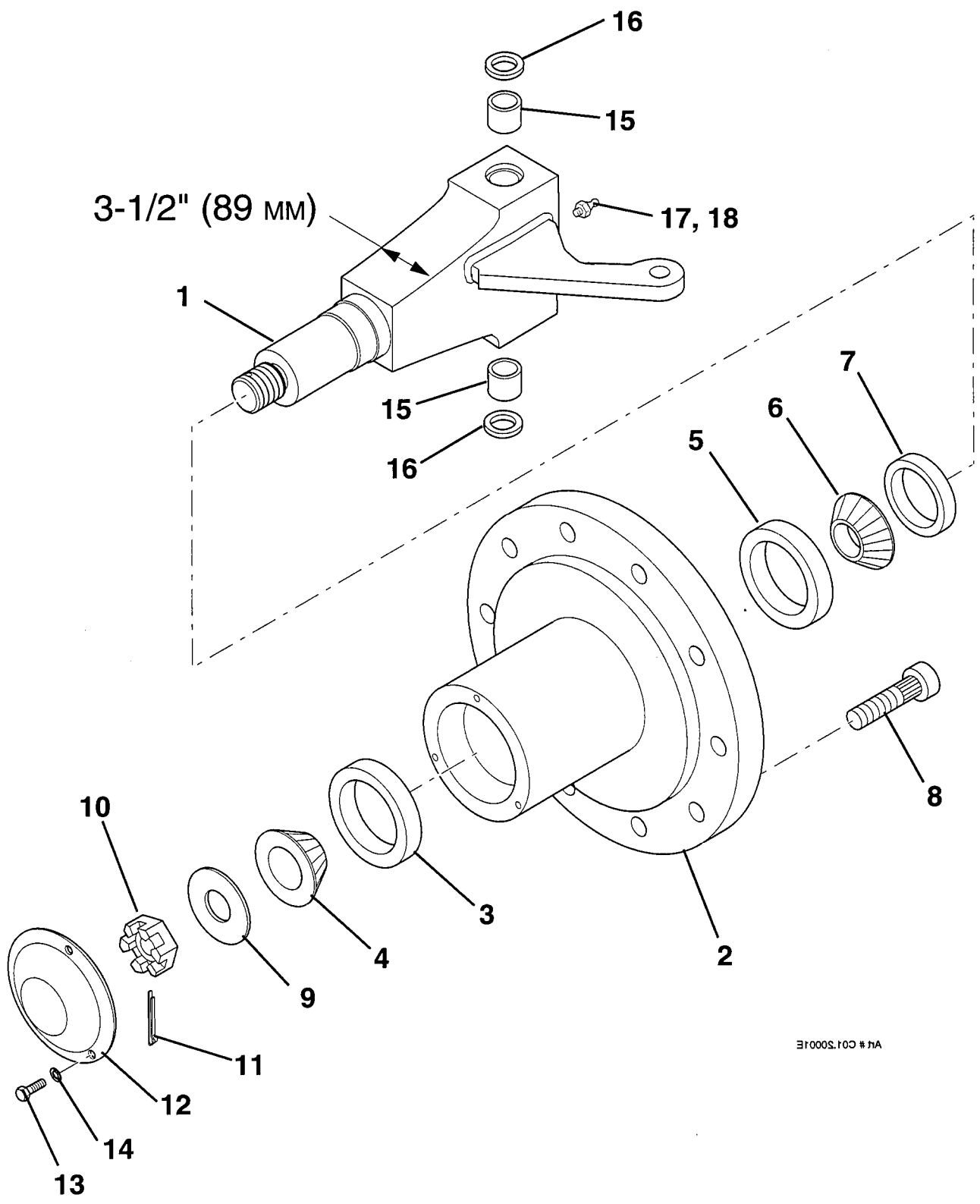
SECTION 'A' - 'A'

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.
			SPINDLE ASSEMBLY (Right)	1
	350 2495		Standard type, with **no seals** at spindle pin	
	Call Simon		Optional type, **with seals** at spindle pin	
			To identify these spindles: The distance from the spindle pin centerline to the end of the threads is 12.5" (31.8 cm). The width of the spindle weldment (see illustration) is 3-1/2" (89 mm). The inner and outer bearings are the same diameter.	
1			SPINDLE (Right)	1
	207 0702		Standard type (**no counterbore** for seals at spindle pin)	
	Call Simon		Optional type (**with counterbore** for seals at spindle pin)	
2	202 2585		HUB, SPINDLE	1
3	08-003400		CUP, BEARING (Outer) (4.437" [113 mm] O.D.)	1
4	08-003500		CONE AND ROLLER, BEARING (Outer) (2.750" [70 mm] I.D.)	1
5	08-003400		CUP, BEARING (Inner) (4.437" [113 mm] O.D.)	1
6	08-003500		CONE AND ROLLER, BEARING (Inner) (2.750" [70 mm] I.D.)	1
7	01-030700		SEAL, SHAFT OIL (3.25" [83 mm] I.D., 4.5" [114 mm] O.D.)	1
8	07-030651		STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5)	10
9	07-062027		WASHER, FLAT (1-3/4")	1
10	07-045227		NUT, HEX (Slotted) (1-3/4"-12, Grade 5)	1
11	07-070511		PIN, COTTER (1/8" x 2-1/2" long)	1
12	202 1131		PLATE, SPINDLE END COVER	1
13	07-003001		CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5)	3
14	07-065014		WASHER, HELICAL LOCK (1/4")	3
15	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
16	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
17	08-051300		FITTING, GREASE (1/8", 90°)	1
18	08-066300		CAP, GREASE FITTING (White plastic)	1

TITLE	SPINDLE ASSEMBLY, RIGHT HAND		
PLATE NO. C01.14	**SIMON AERIALS INC.**	REV. 01 SEP., 1995	PART NO.

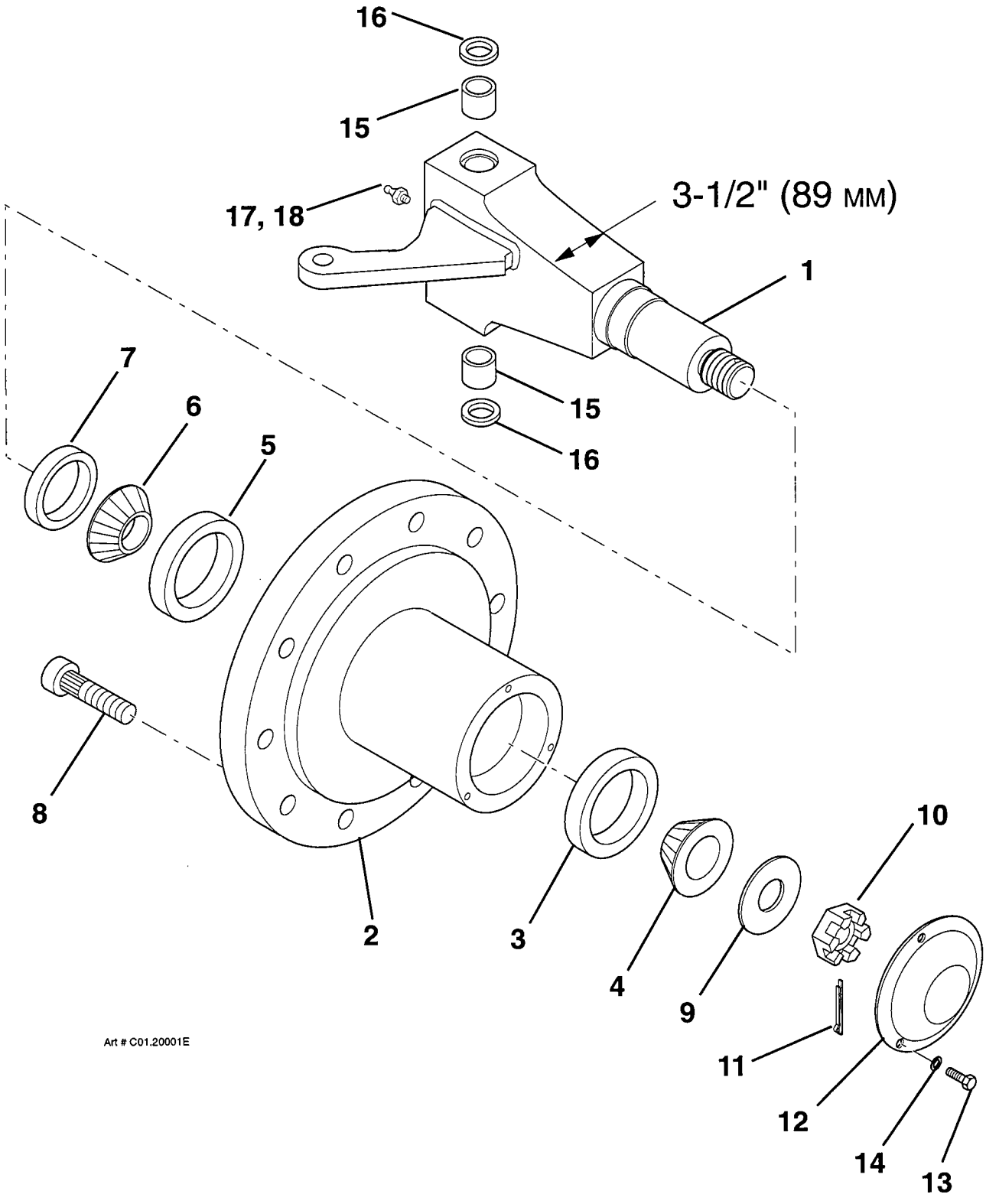


TITLE	SPINDLE ASSEMBLY, RIGHT HAND		
SIMON AERIALS INC. REV. 01 SEP., 1995		PART NO.	PLATE NO. C01.14

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			SPINDLE ASSEMBLY (Left)	1
	350 3089		Standard type, with **no seals** at spindle pin	
	Call Simon		Optional type, **with seals** at spindle pin	
			To identify these spindles: The distance from the spindle pin centerline to the end of the threads is 12.5" (31.8 cm). The width of the spindle weldment (see illustration) is 3-1/2" (89 mm). The inner and outer bearings are the same diameter.	
1			SPINDLE (Left)	1
	207 0711		Standard type (**no counterbore** for seals at spindle pin)	
	Call Simon		Optional type (**with counterbore** for seals at spindle pin)	
2	202 2585		HUB, SPINDLE	1
3	08-003400		CUP, BEARING (Outer) (4.437" [113 mm] O.D.)	1
4	08-003500		CONE AND ROLLER, BEARING (Outer) (2.750" [70 mm] I.D.)	1
5	08-003400		CUP, BEARING (Inner) (4.437" [113 mm] O.D.)	1
6	08-003500		CONE AND ROLLER, BEARING (Inner) (2.750" [70 mm] I.D.)	1
7	01-030700		SEAL, SHAFT OIL (3.25" [83 mm] I.D., 4.5" [114 mm] O.D.)	1
8	07-030651		STUD, WHEEL MOUNTING (3/4"-16 x 2-1/2", Grade 5)	10
9	07-062027		WASHER, FLAT (1-3/4")	1
10	07-045227		NUT, HEX (Slotted) (1-3/4"-12, Grade 5)	1
11	07-070511		PIN, COTTER (1/8" x 2-1/2" long)	1
12	202 1131		PLATE, SPINDLE END COVER	1
13	07-003001		CAP SCREW, HEX HEAD (1/4"-20 x 1/2", Grade 5)	3
14	07-065014		WASHER, HELICAL LOCK (1/4")	3
15	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
16	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
17	08-051300		FITTING, GREASE (1/8", 90°)	1
18	08-066300		CAP, GREASE FITTING (White plastic)	1

TITLE	SPINDLE ASSEMBLY, LEFT HAND		
PLATE NO. C01.15	**SIMON AERIALS INC.**	REV. 01 SEP., 1995	PART NO.



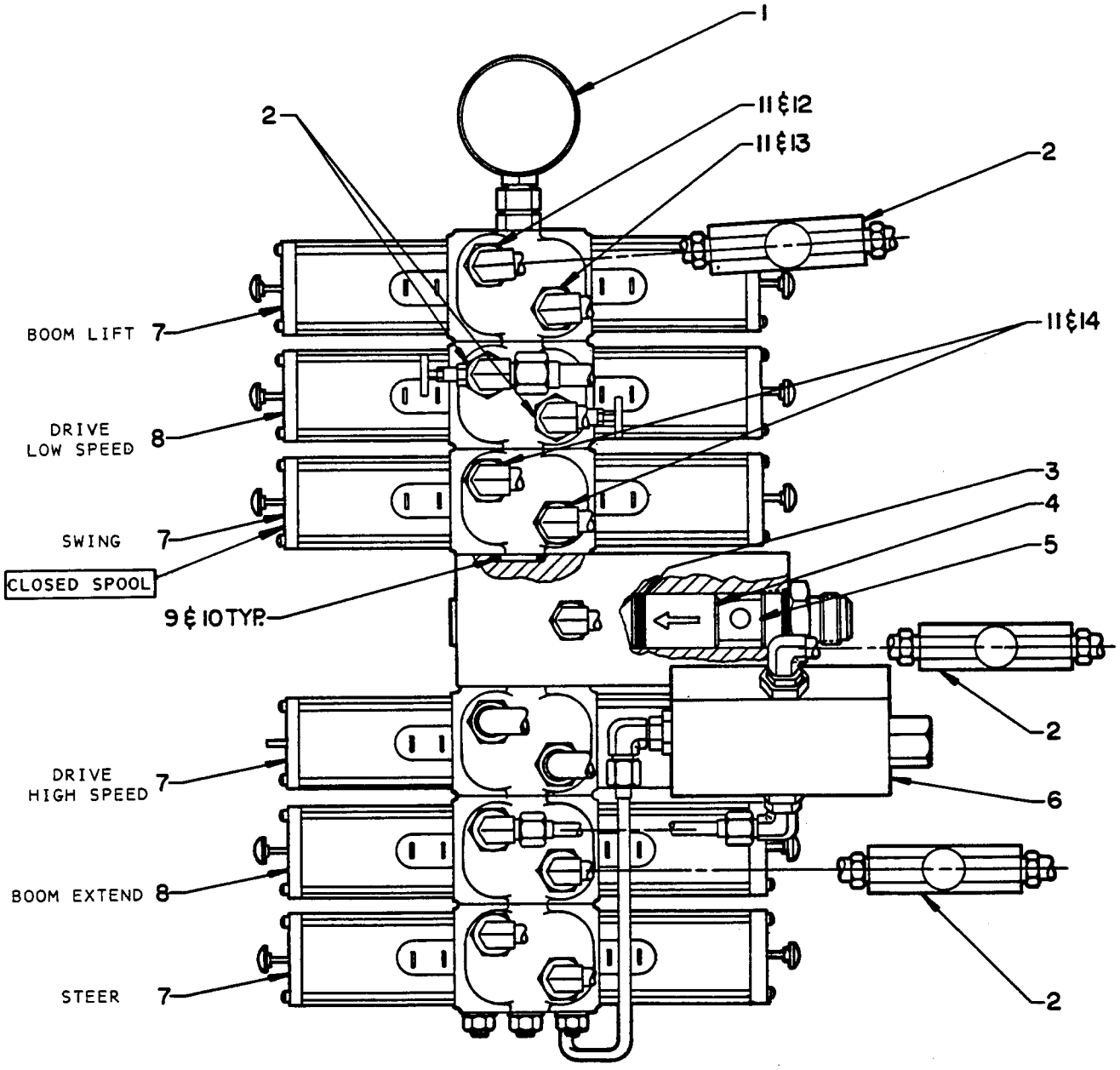
TITLE	SPINDLE ASSEMBLY, LEFT HAND		
SIMON AERIALS INC. REV. 01 SEP., 1995		PART NO.	PLATE NO. C01.15

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	01-008900		RELIEF VALVE	1
7	01-031700	D13.1	SOLENOID CONTROL VALVE, 4-WAY	4
8	01-031800	D13.2	SOLENOID CONTROL VALVE, 4-WAY	2
9	01-031703		'O' RING 1-1/16 O.D.	6
10	01-031702		'O' RING 3/4 O.D.	6
11	07-060014		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-206249-9

C2.3



0684

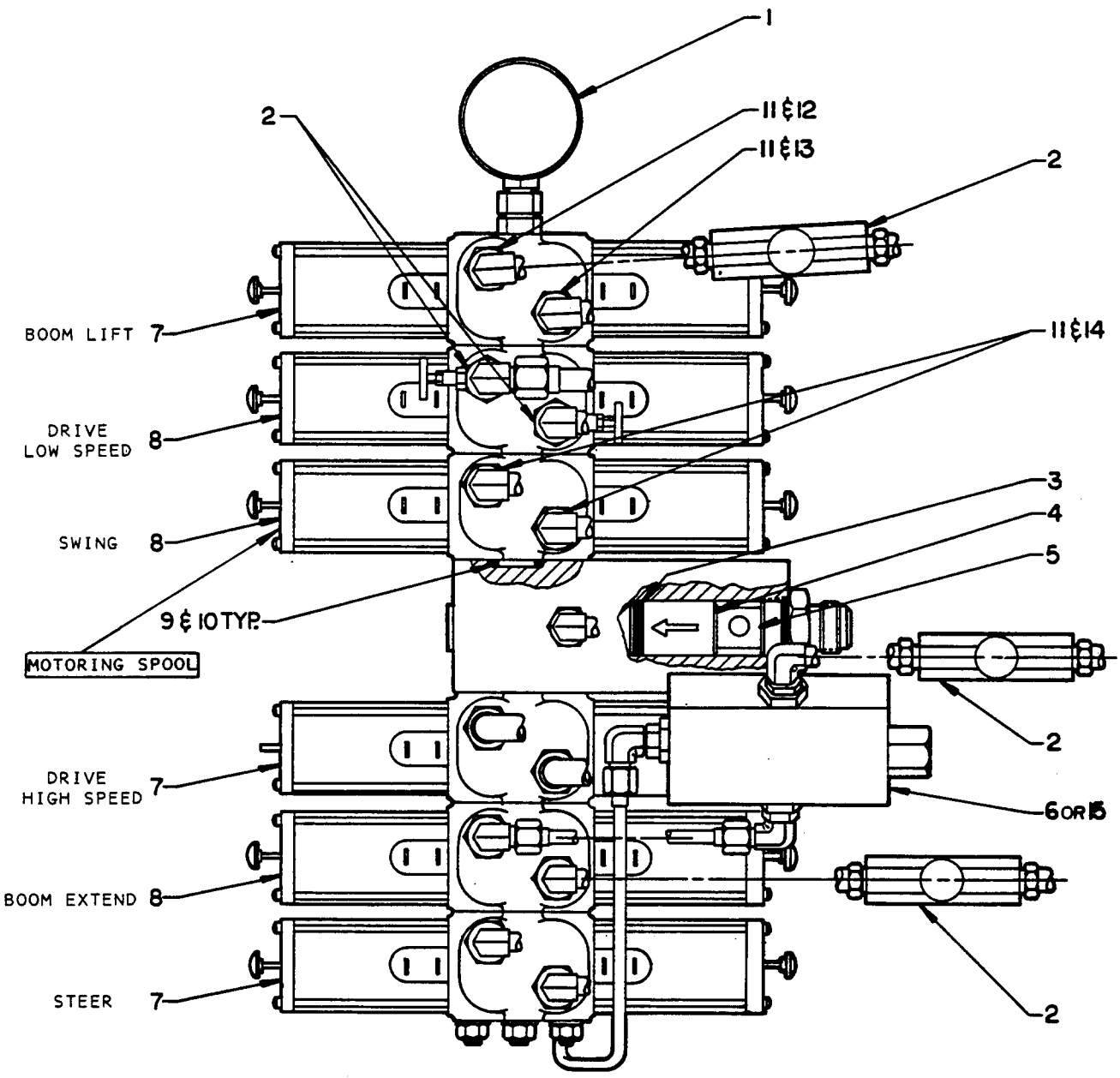
DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY	CAA-206249-9

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	01-008900		RELIEF VALVE (SHOWN)	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
15	01-012800		PRESSURE REDUCING VALVE (NOT SHOWN)	1

DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY	CAA-206253-2

C2.6



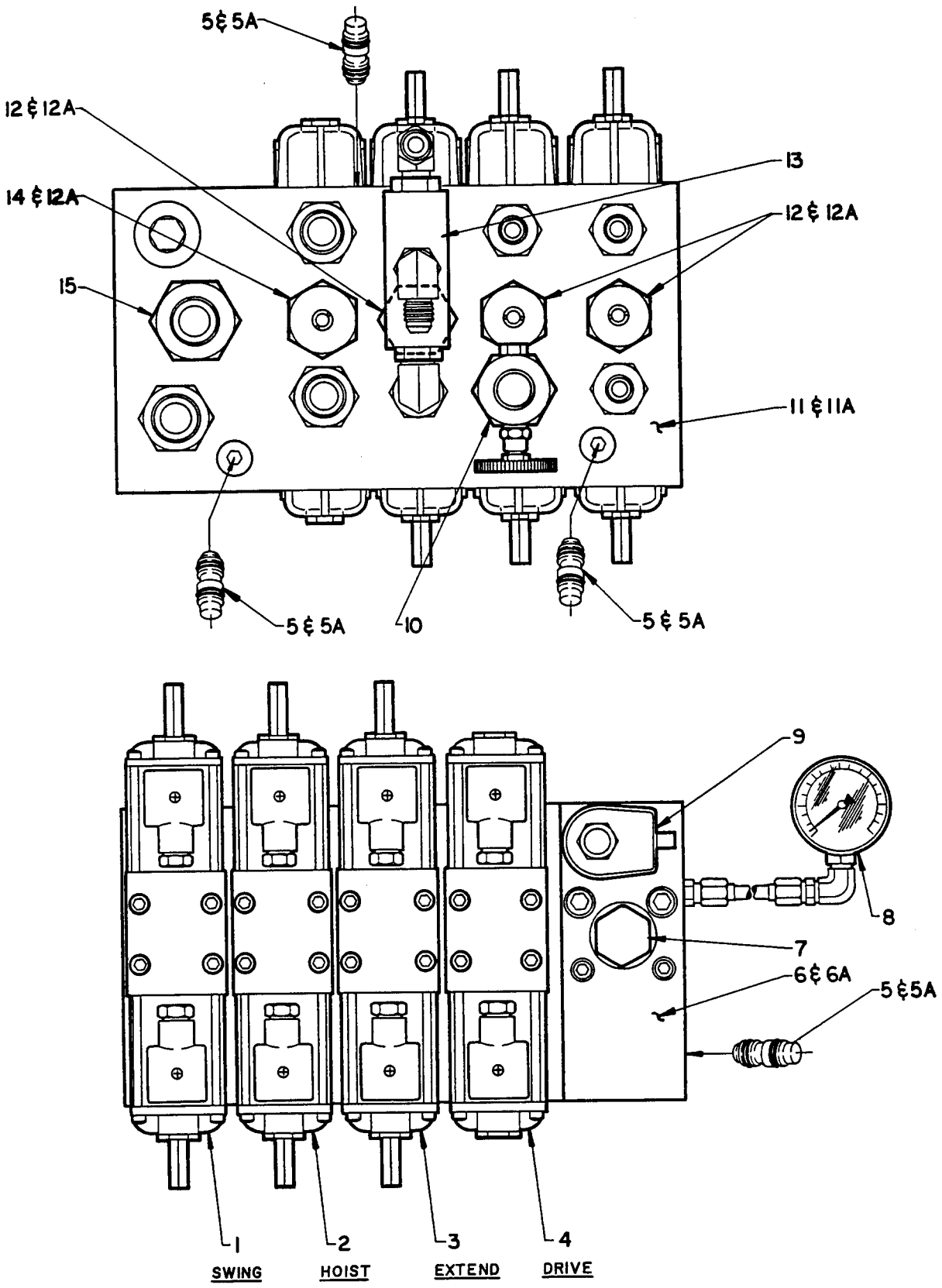
0684

DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY	CAA-206253-2

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



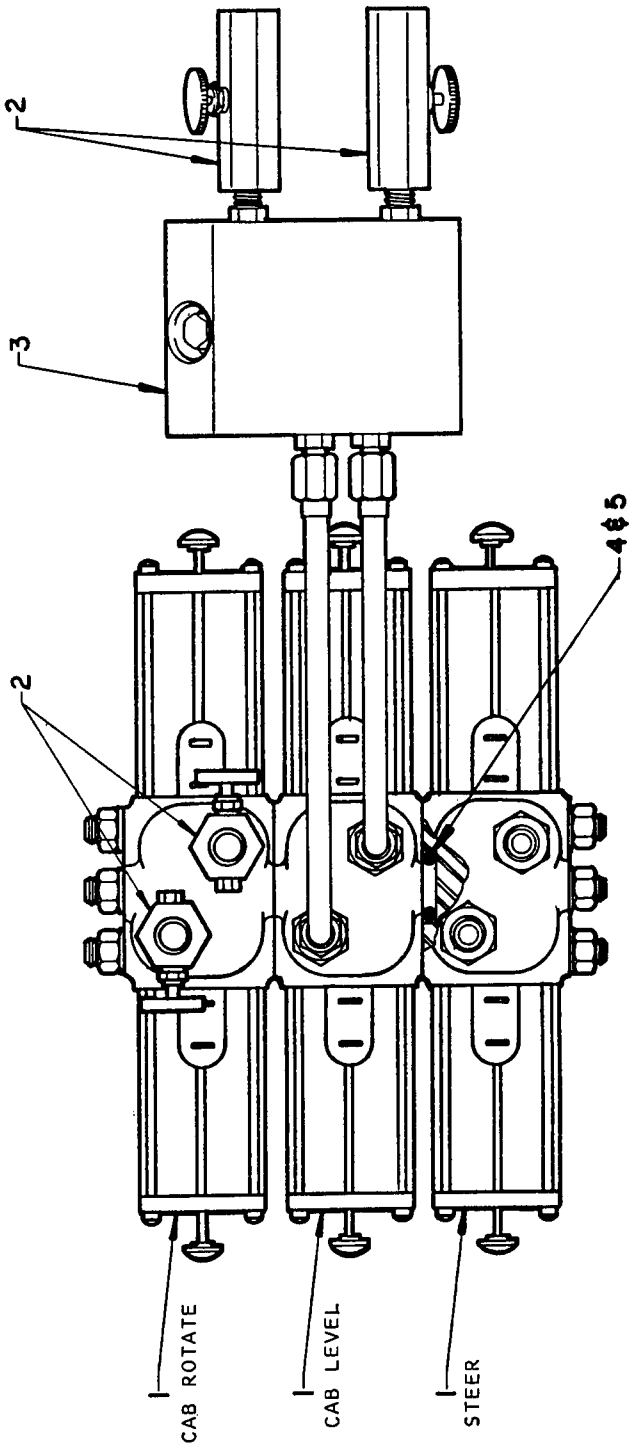
0785/0785

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

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-031700	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-208489-5



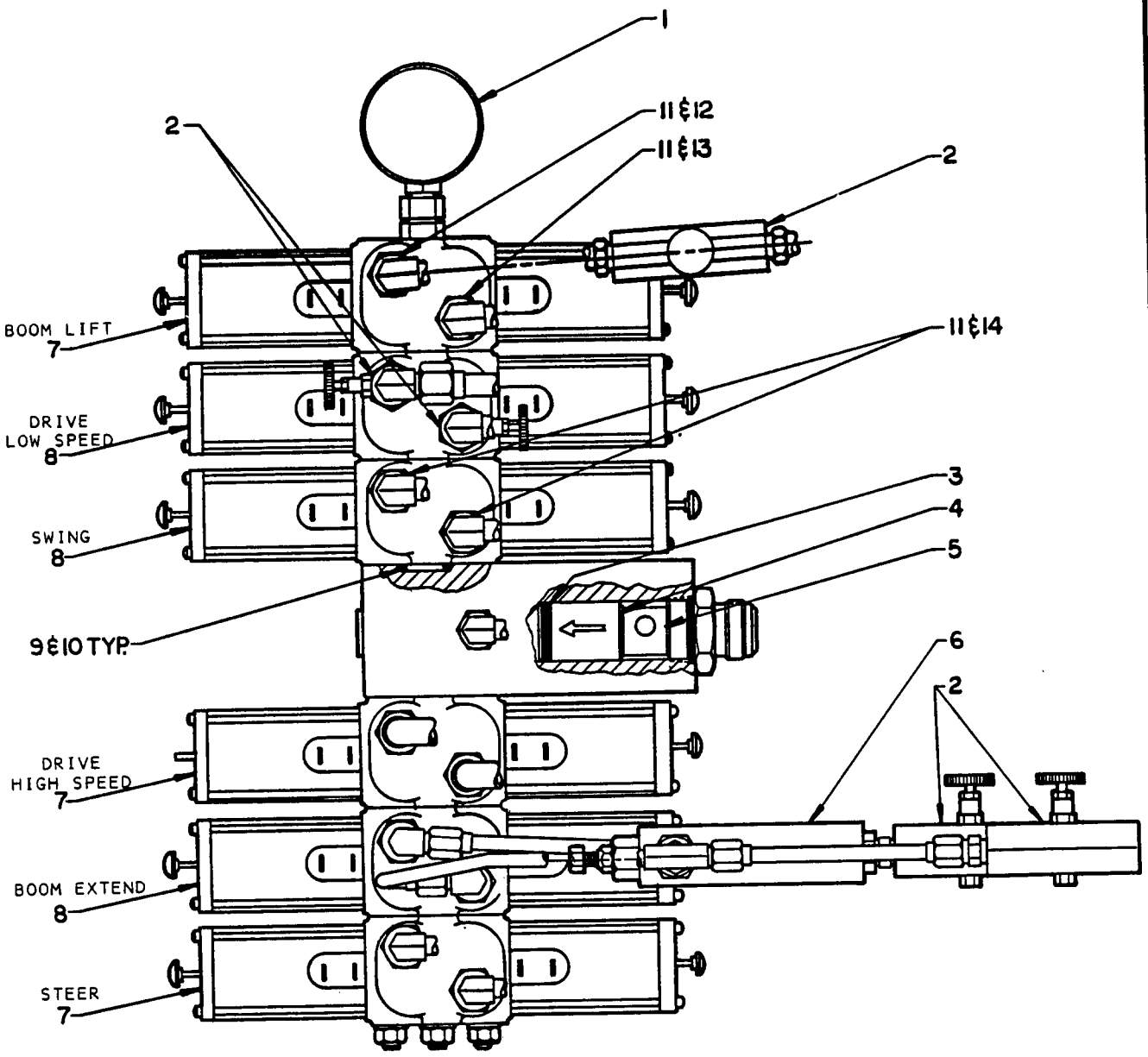
0785/0785

DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY (CAB LEVEL & ROTATE, STEER)	CAA-208489-5

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



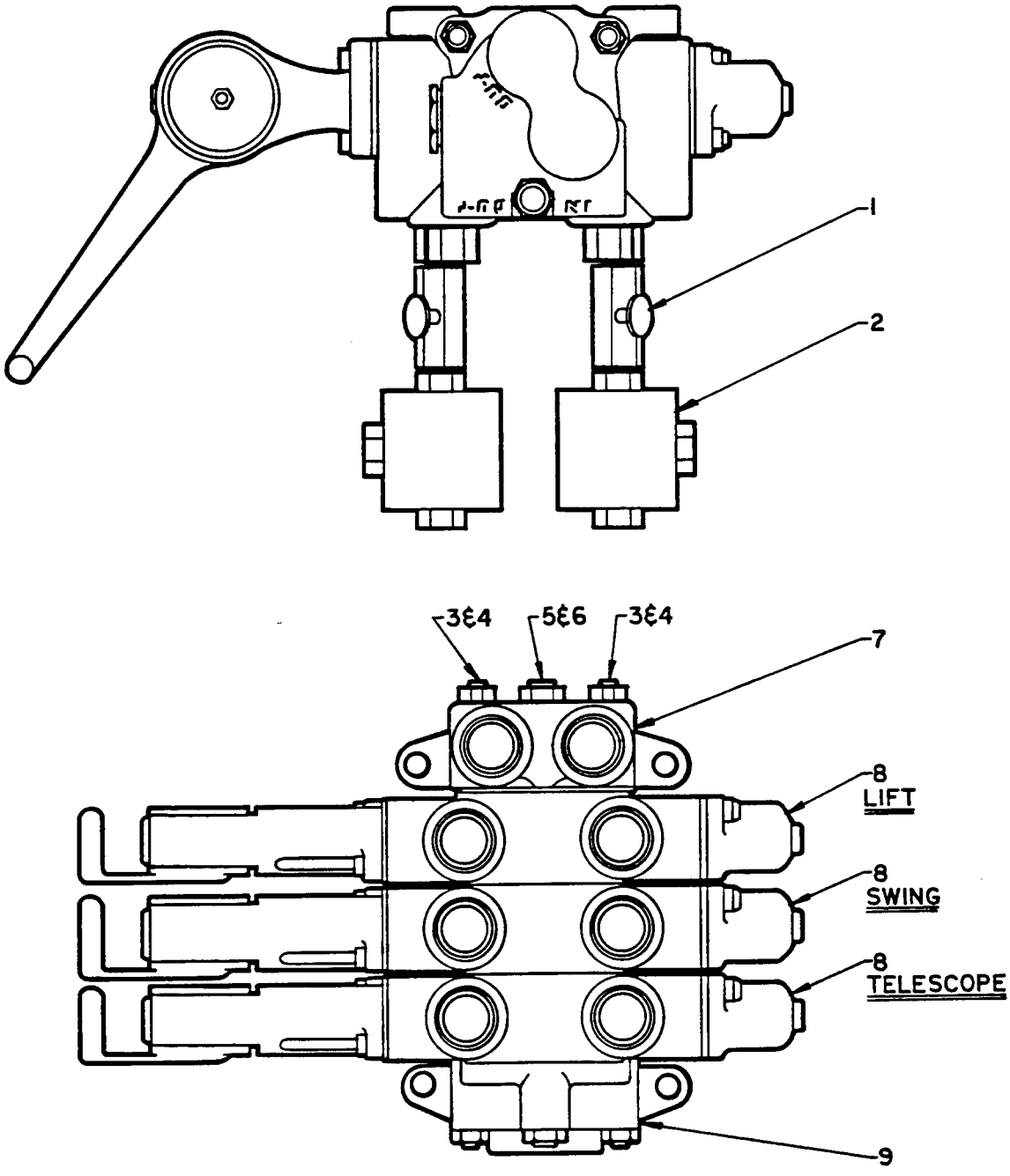
1185/0685

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

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-019000		NEEDLE VLAVE, #8 SAE PORTS	2
2	01-017600		SHUTTLE VALVE, #8 SAE PORTS	6
3*			TIE ROD, 5/16-11 X 6-3/4 LG.	2
4*	HEX NUT, 5/16		EX NUT, 5/16-18	4
5*			TIE ROD, 3/8-24 X 6-3/4 LG.	1
6*	HEX NUT, 3/8-2		HEX NUT, 3/8-24	2
7	01-067704		INLET VALVE SECTION	1
8	01-067701	D14.2	4-WAY MANUAL VALVE SECTION	3
9	01-067705		END CAP SECTION	1
*			TIE ROD KIT	1

DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY- (LIFT, SWING, TELESCOPE)	



BOTTOM VIEW

0286/0186

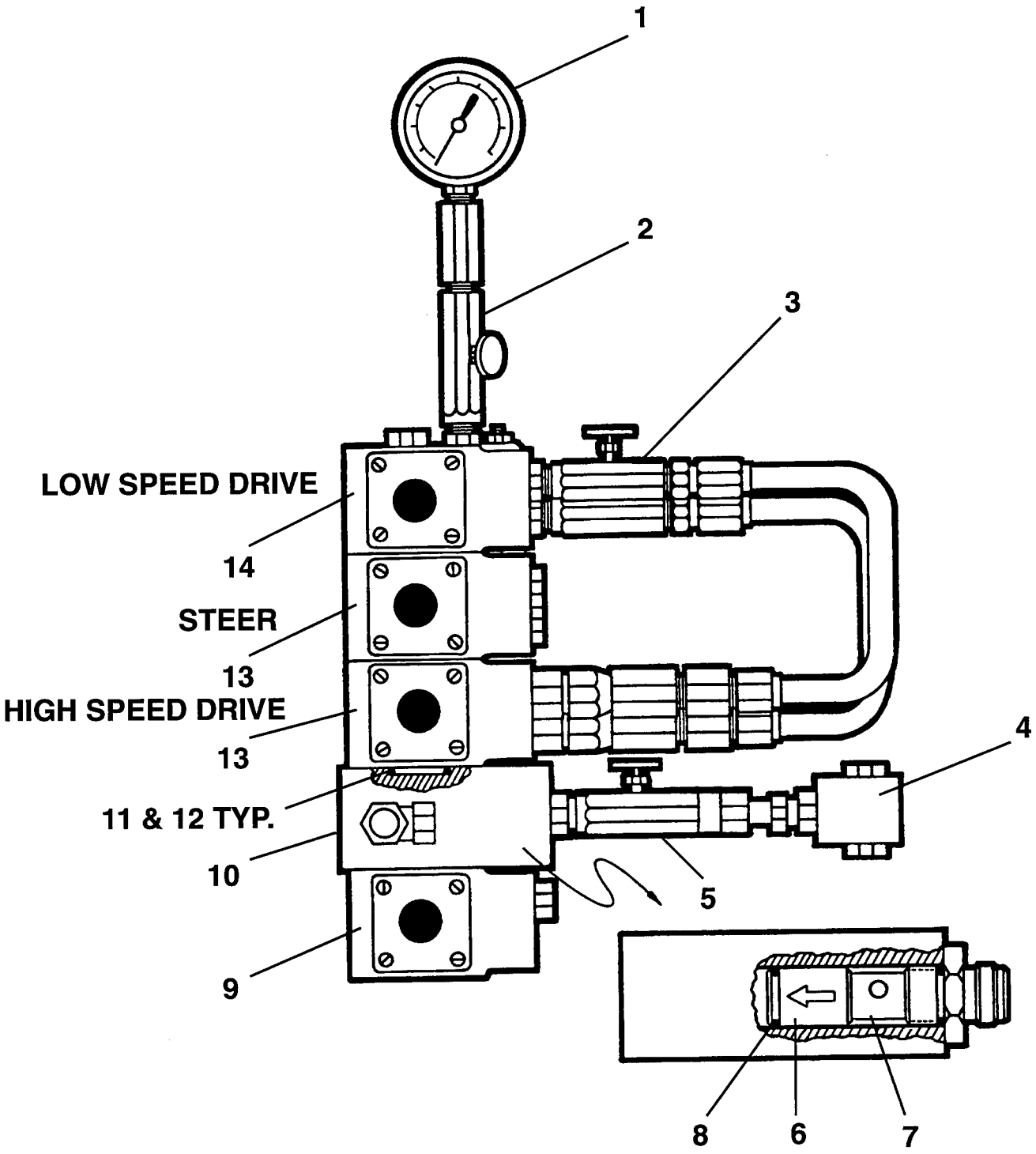
DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY- (LIFT, SWING, TELESCOPE)	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-021000		PRESSURE GAUGE	1
2	01-018900		NEEDLE VALVE, #6 SAE PORTS	1
3	01-019000		NEEDLE VALVE, #8 SAE PORTS	2
4	01-013800		SHUTTLE VALVE, #6 SAE PORTS	1
5	01-012300		NEEDLE VALVE, PRESSURE COMPENSATED	1
6	01-034100		CARTRIDGE CHECK VALVE	1
7	2015109		SPACER	1
8	01-034200		'O' RING	1
9	01-061100		3-WAY SOLENOID VALVE	1
10			MANIFOLD	1
11	01-031703		'O' RING, 1-1/16 INCHES O.D.	4
12	01-031702		'O' RING, 3/4 INCH O.D.	4
13	01-031800		4-WAY SOLENOID VALVE, CLOSED CENTER	2
14	01-061900		4-WAY SOLENOID VALVE, MOTORING SPOOL	1

TITLE VALVE BANK ASSEMBLY (DRIVE, STEER)

PLATE NO. C02.19 | **SIMON AERIALS INC.** REV. 09/16/91 | PART NO. 3510195

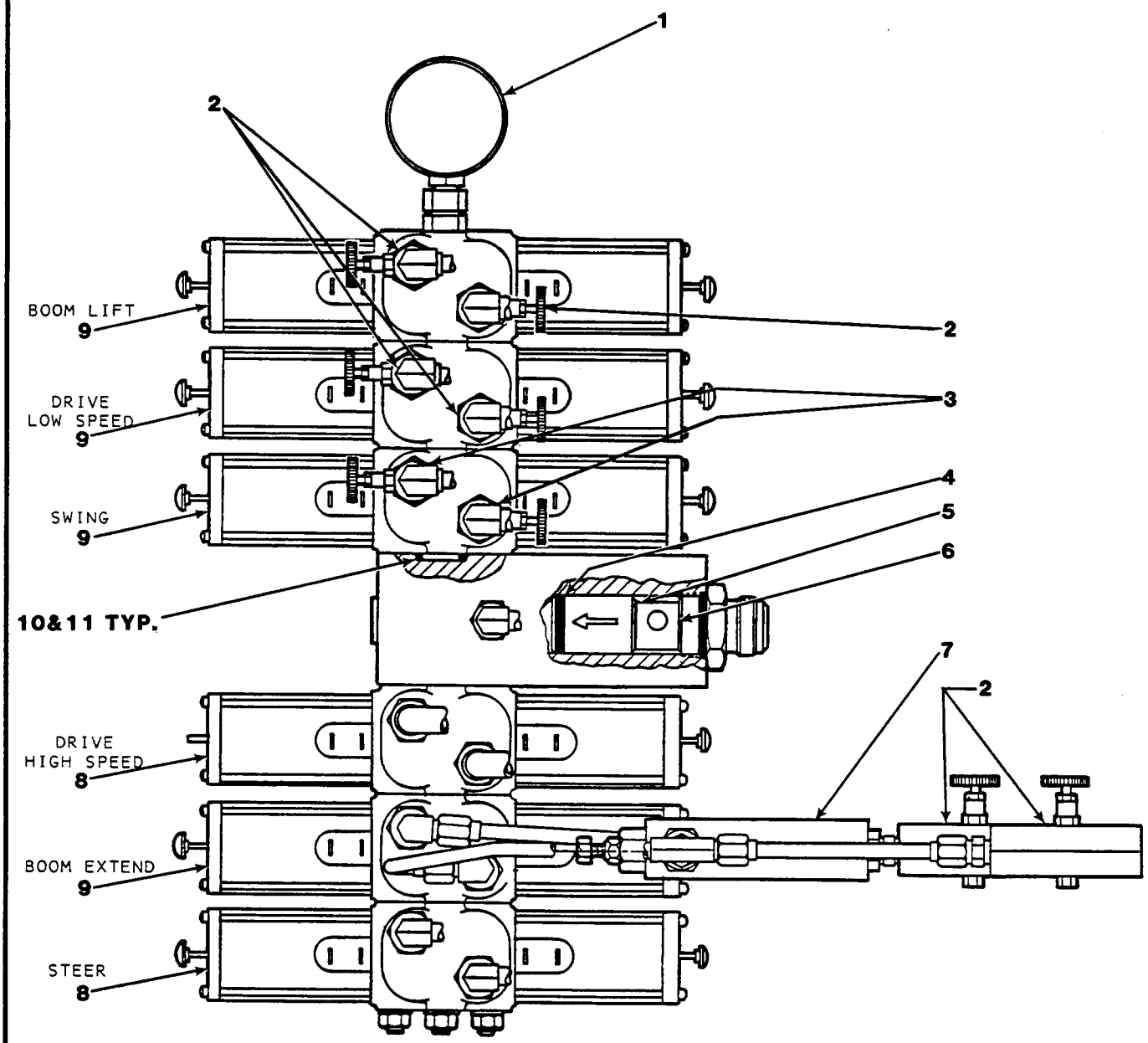


TITLE	VALVE BANK ASSEMBLY (DRIVE, STEER)		
SIMON AERIALS INC.	REV. 09/16/91	PART NO. 3510195	PLATE NO. C02.19

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

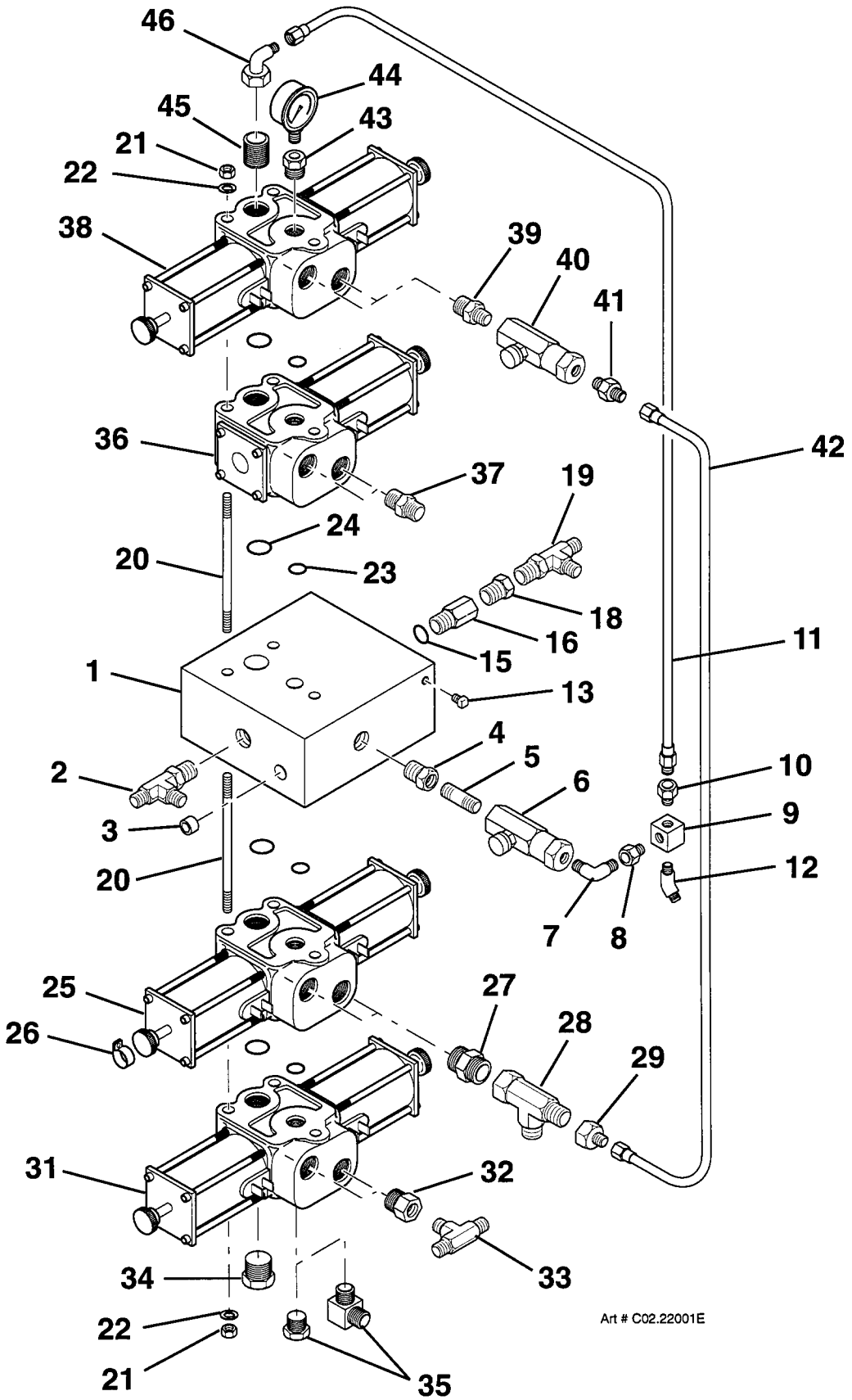
DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY	

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)

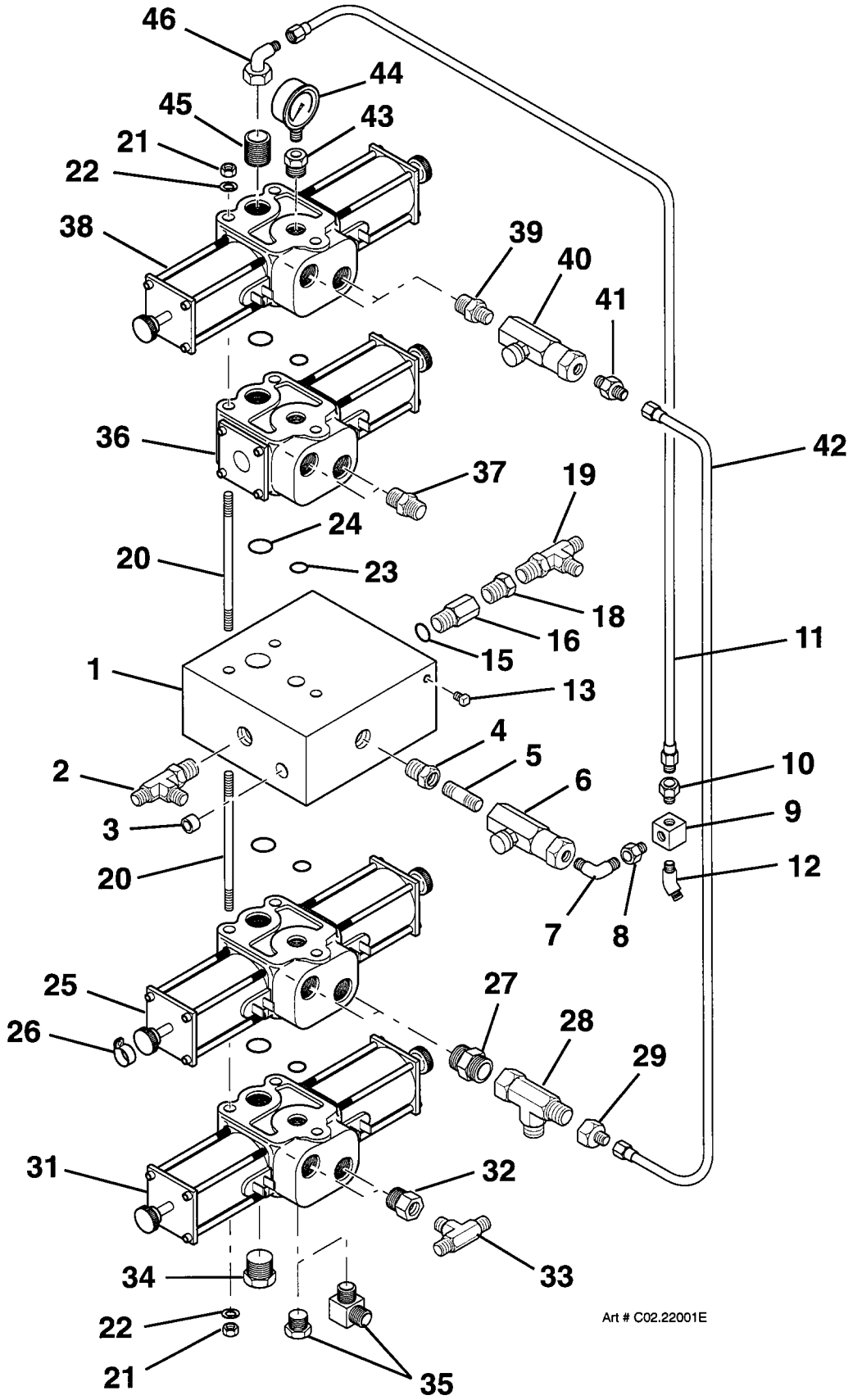
SIMON AERIALS INC.	REV. 06/26/91	PART NO. 3511020	PLATE NO. C02.22

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.	PART NO.
C02.22	REV. 06/26/91	3511020



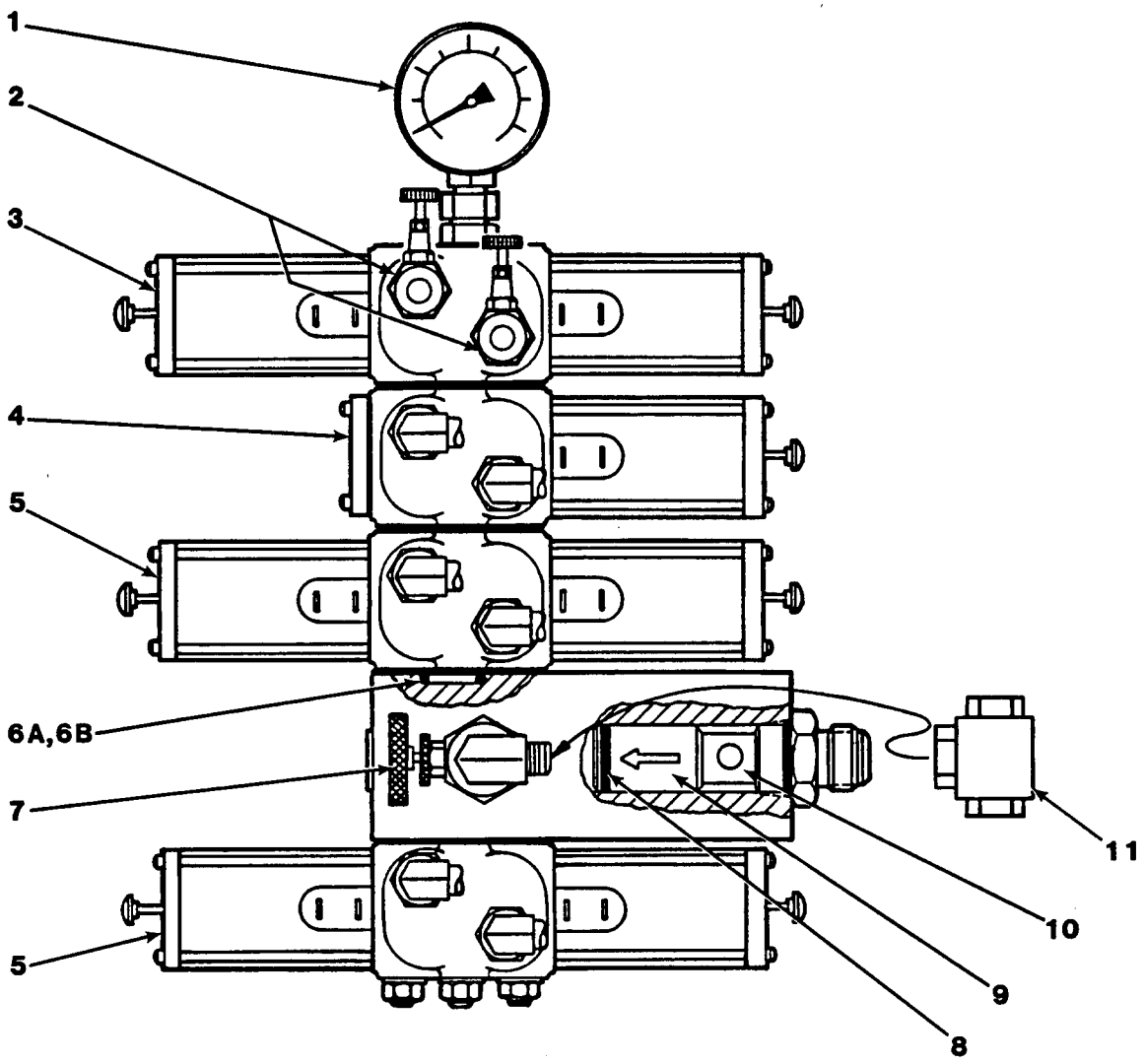
TITLE MANIFOLD ASSEMBLY, DRIVE/ STEER (FULL HYDRAULIC) (PLATE 2 OF 2)

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

PARTS LIST

ITEM	PART NO.	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)	



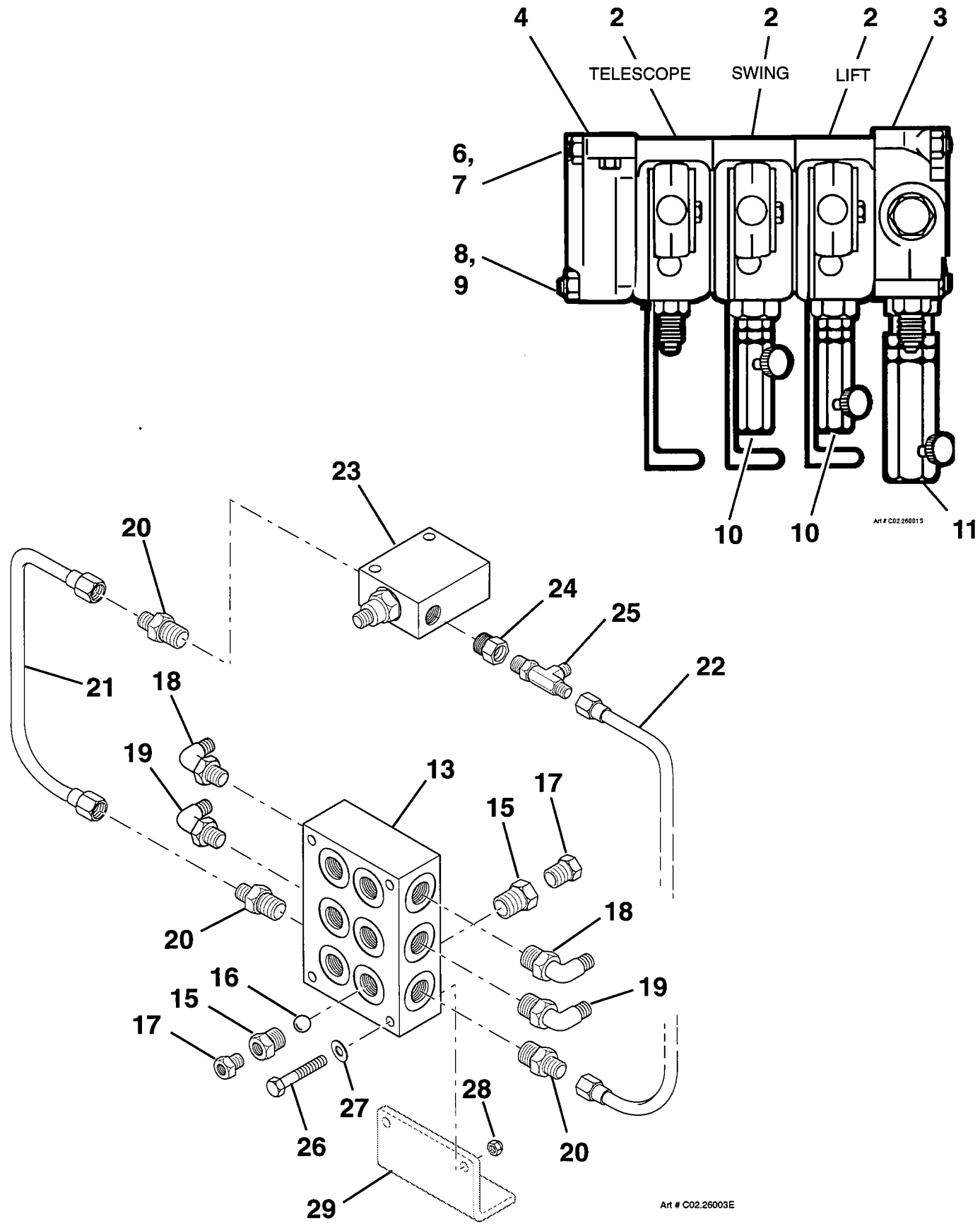
0286/1086

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.

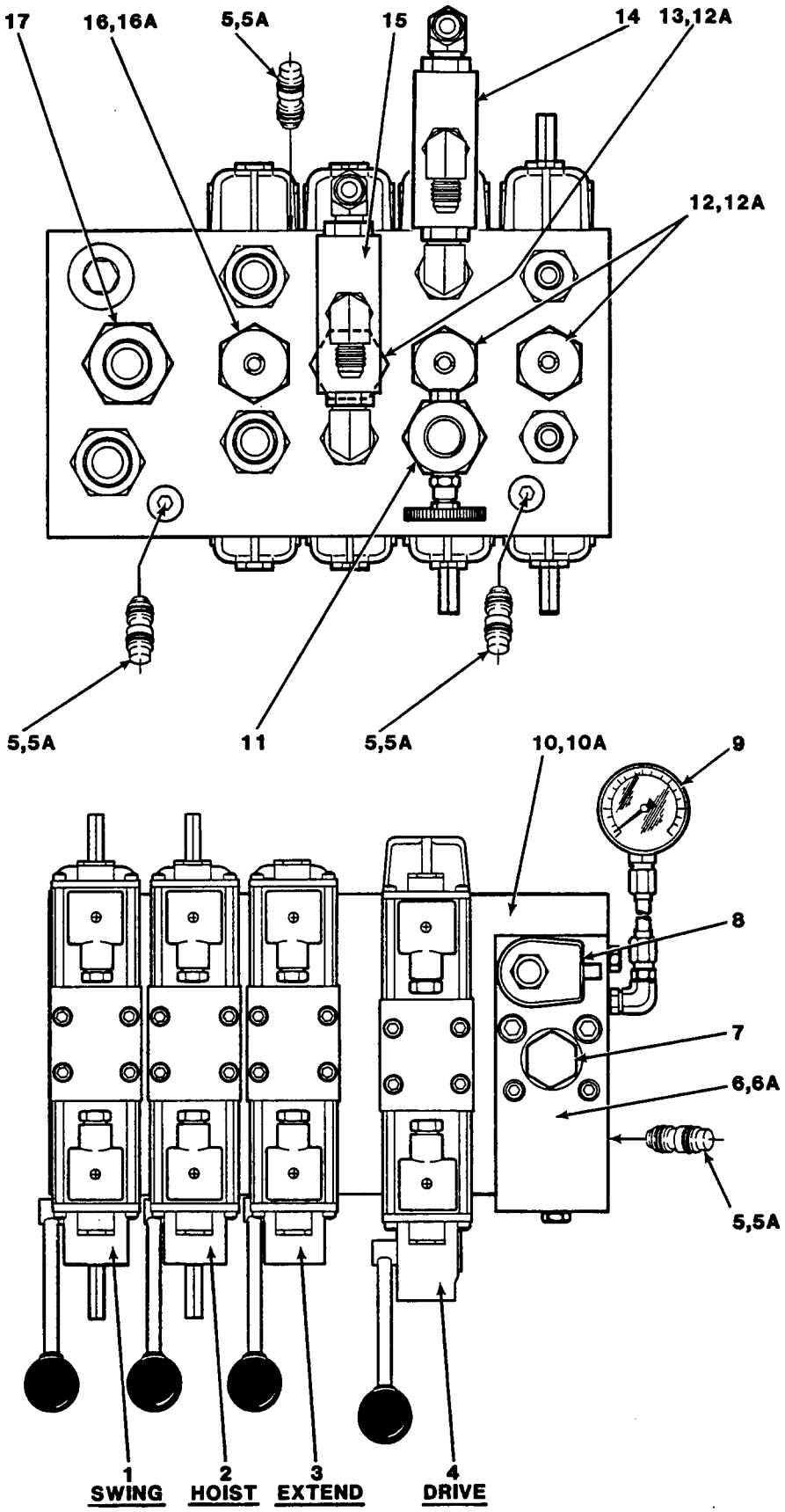


TITLE	VALVE BANK ASSEMBLY (LIFT, SWING, TELESCOPE)		
SIMON AERIALS INC.	REV. 08/26/91	PART NO.	PLATE NO. C02.26

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)	



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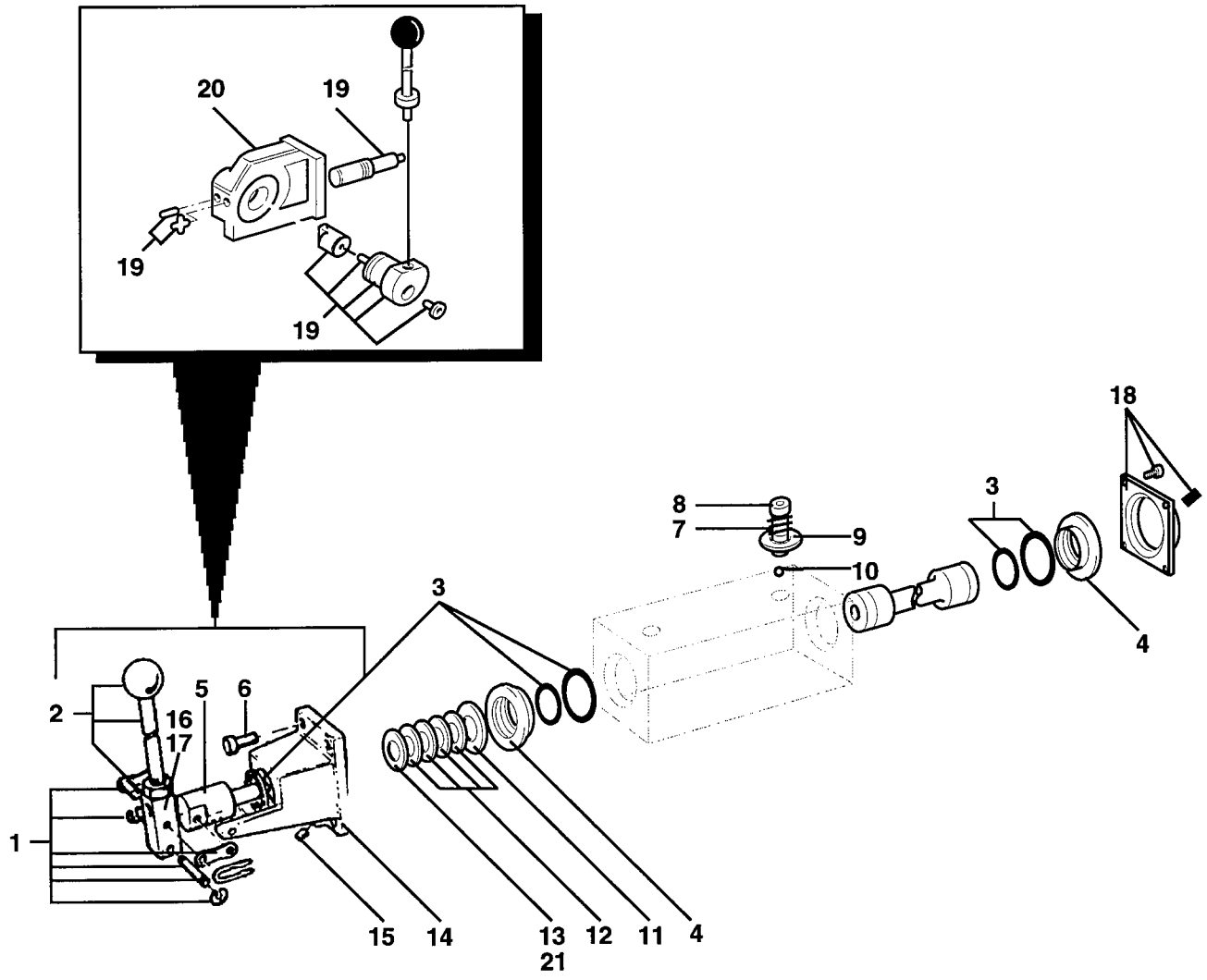
DESCRIPTION	PART NO.
VALVE BANK ASSEMBLY (SWING, HOIST, EXTEND, DRIVE)	

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



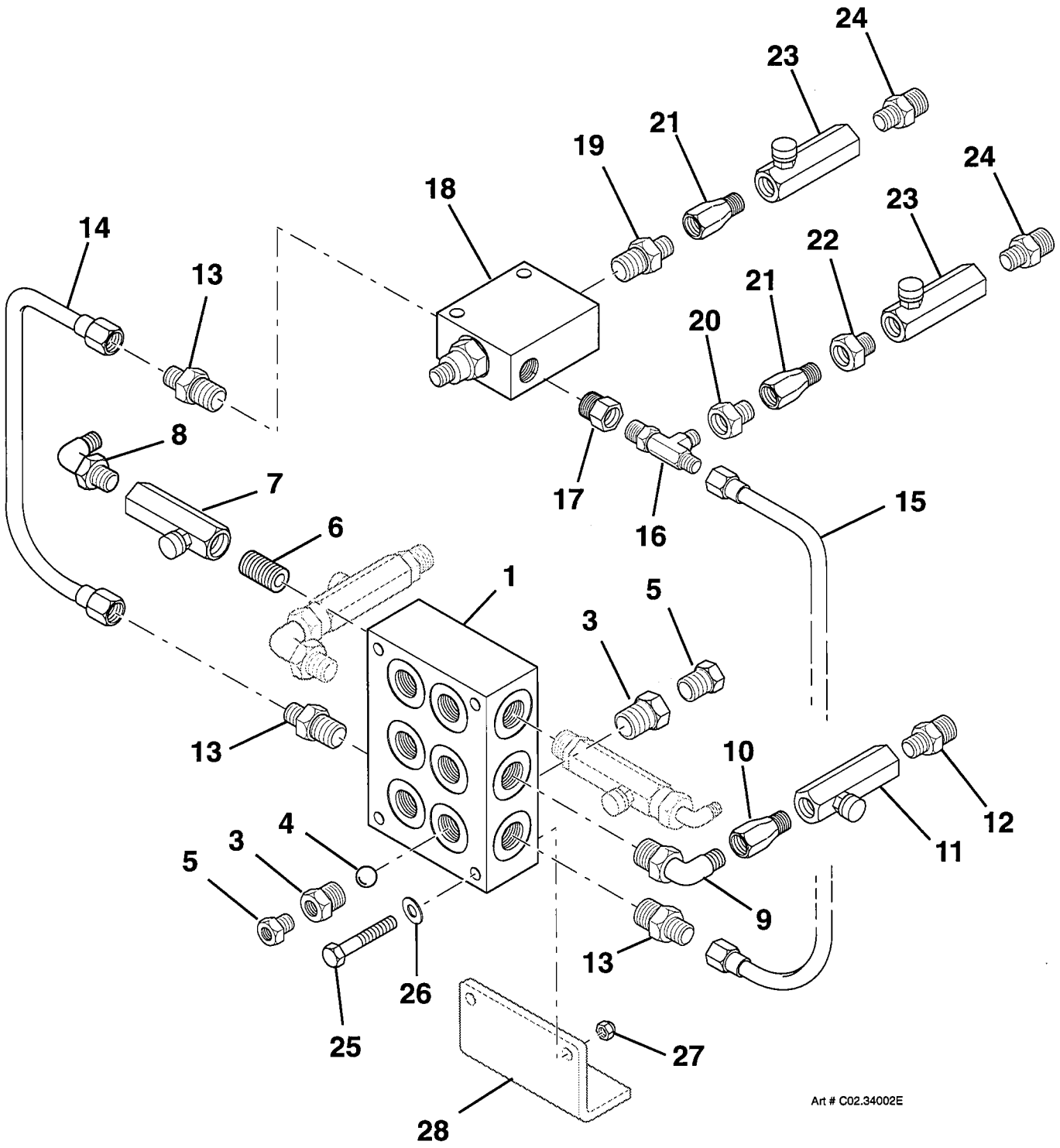
TITLE	VALVE BANK ASSEMBLY (FULL HYDRAULIC)		
SIMON AERIALS INC. REV. 11/30/90	PART NO. 01-061700	PLATE NO. C02.30	

PARTS LIST

ITEM	PART NO	SEE 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.



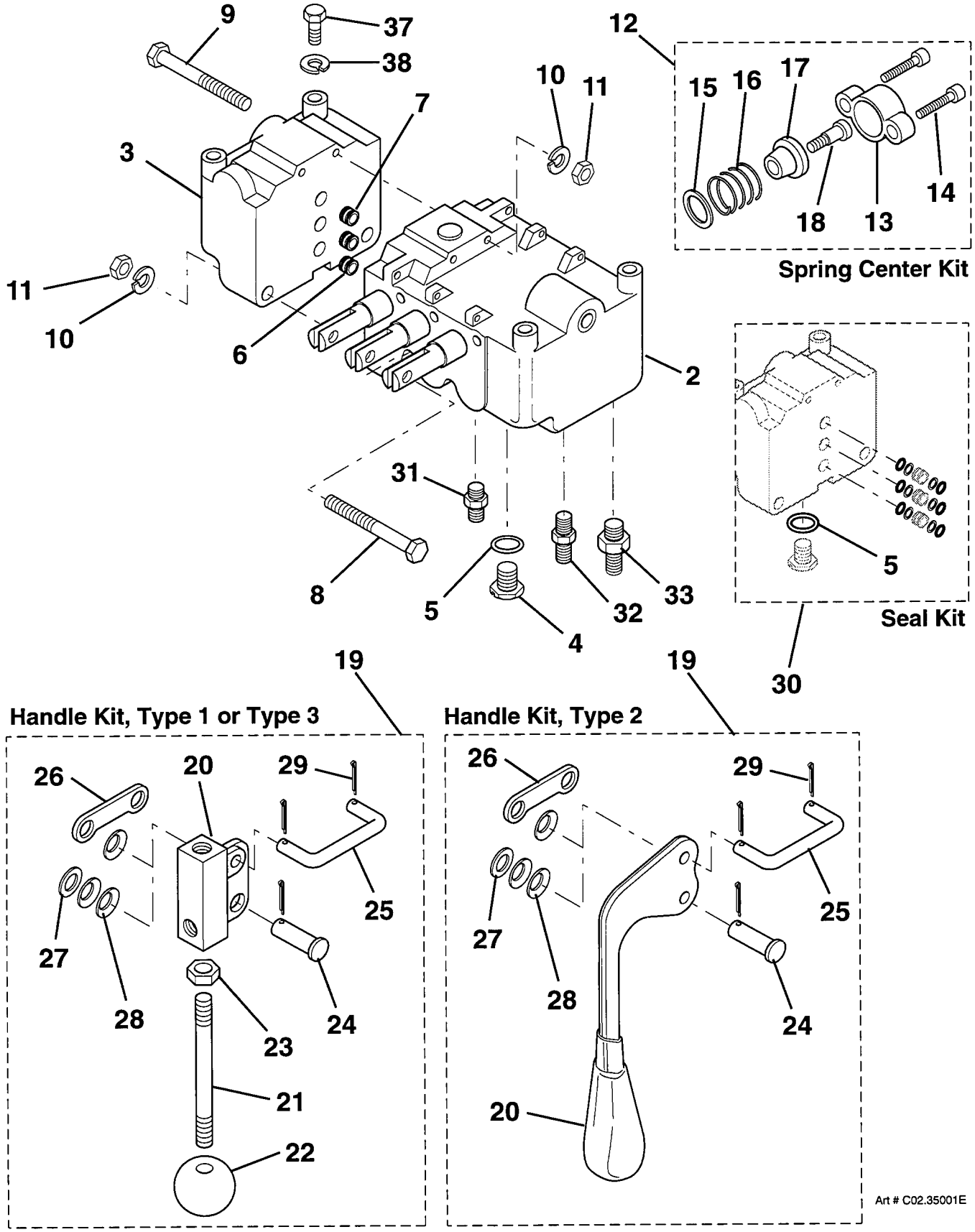
TITLE	SHUTTLE VALVE ASSEMBLY, MP (FULL HYDRAULIC)		
SIMON AERIALS INC. NEW 08/26/91		PART NO.	PLATE NO. C02.34

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



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

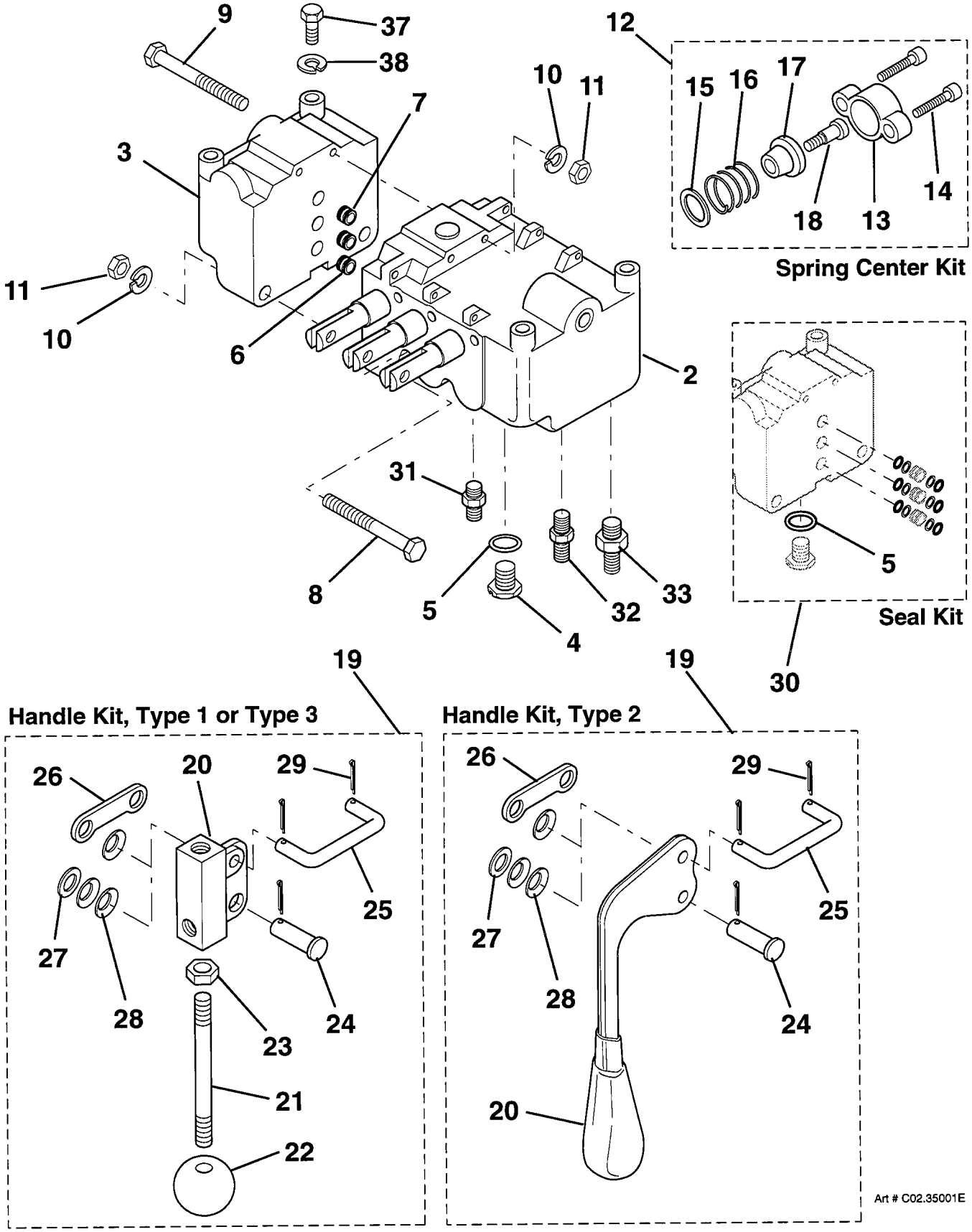
SIMON AERIALS INC. REV. 14 SEP, 1995	PART NO.	PLATE NO. C02.35

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



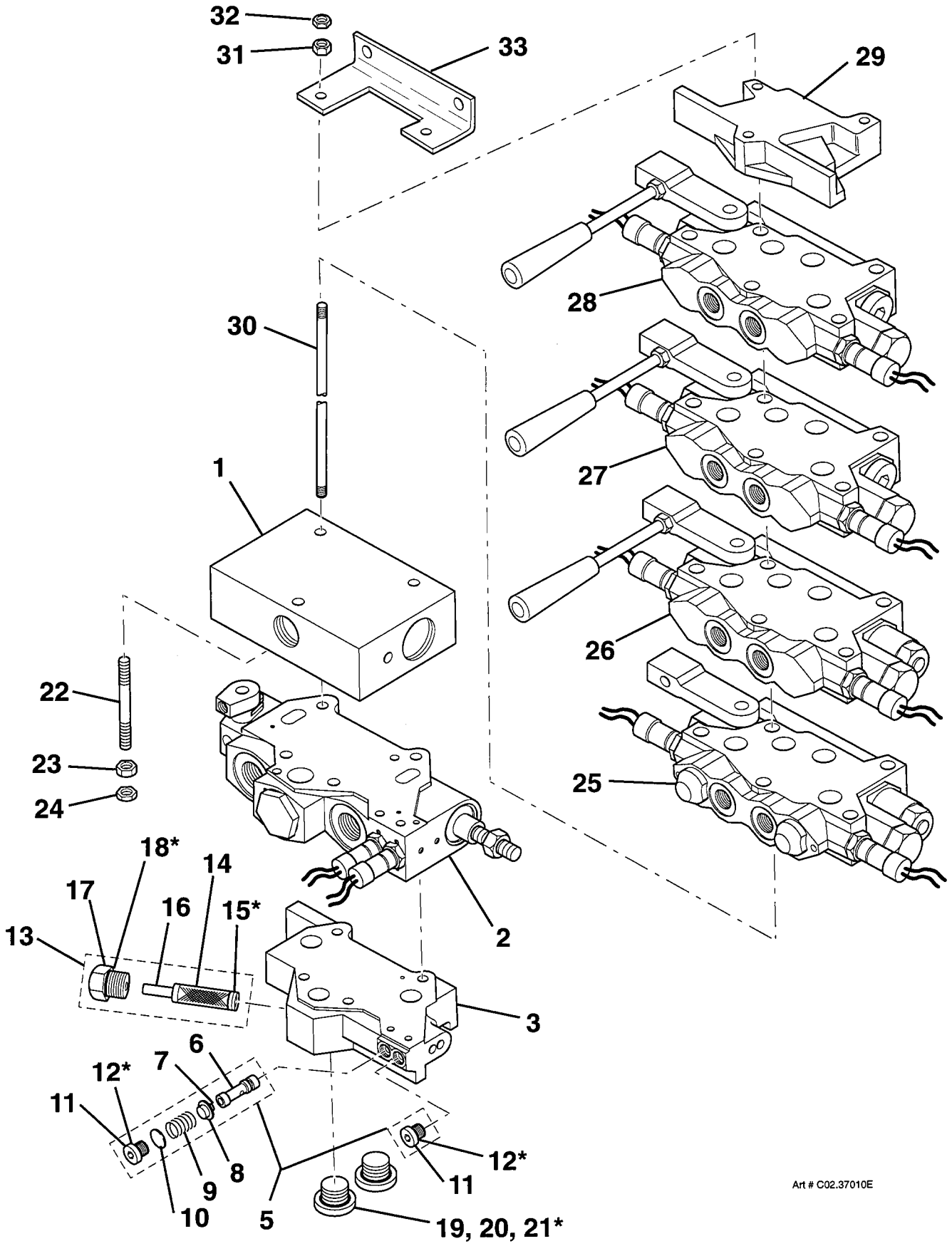
TITLE VALVE BANK ASSEMBLY, GROUND (LIFT, SWING, TELESCOPE) (2 OF 2)

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

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			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)

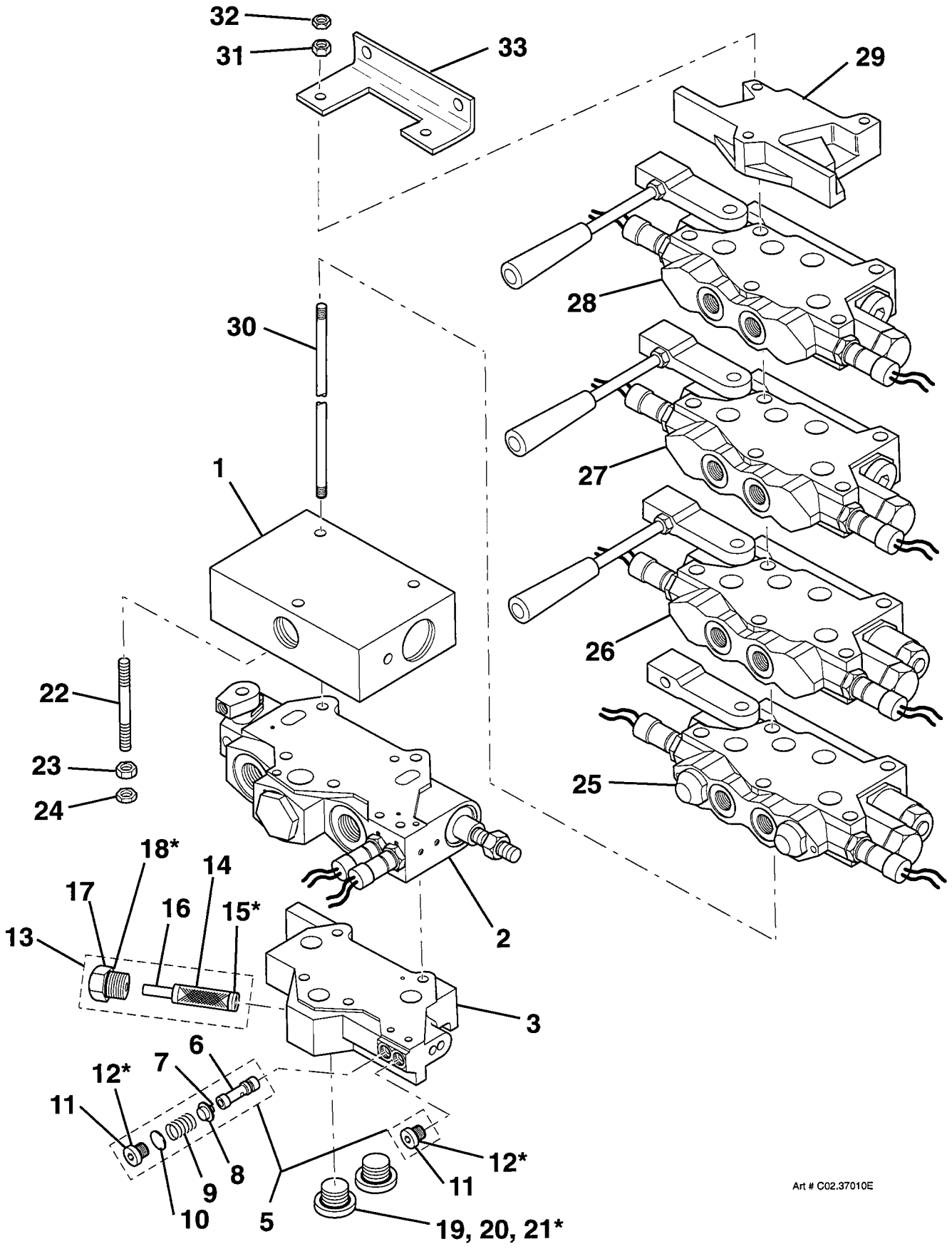
SIMON AERIALS INC.	REV. 23 MAR., 1995	PART NO.	PLATE NO. C02.37

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



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

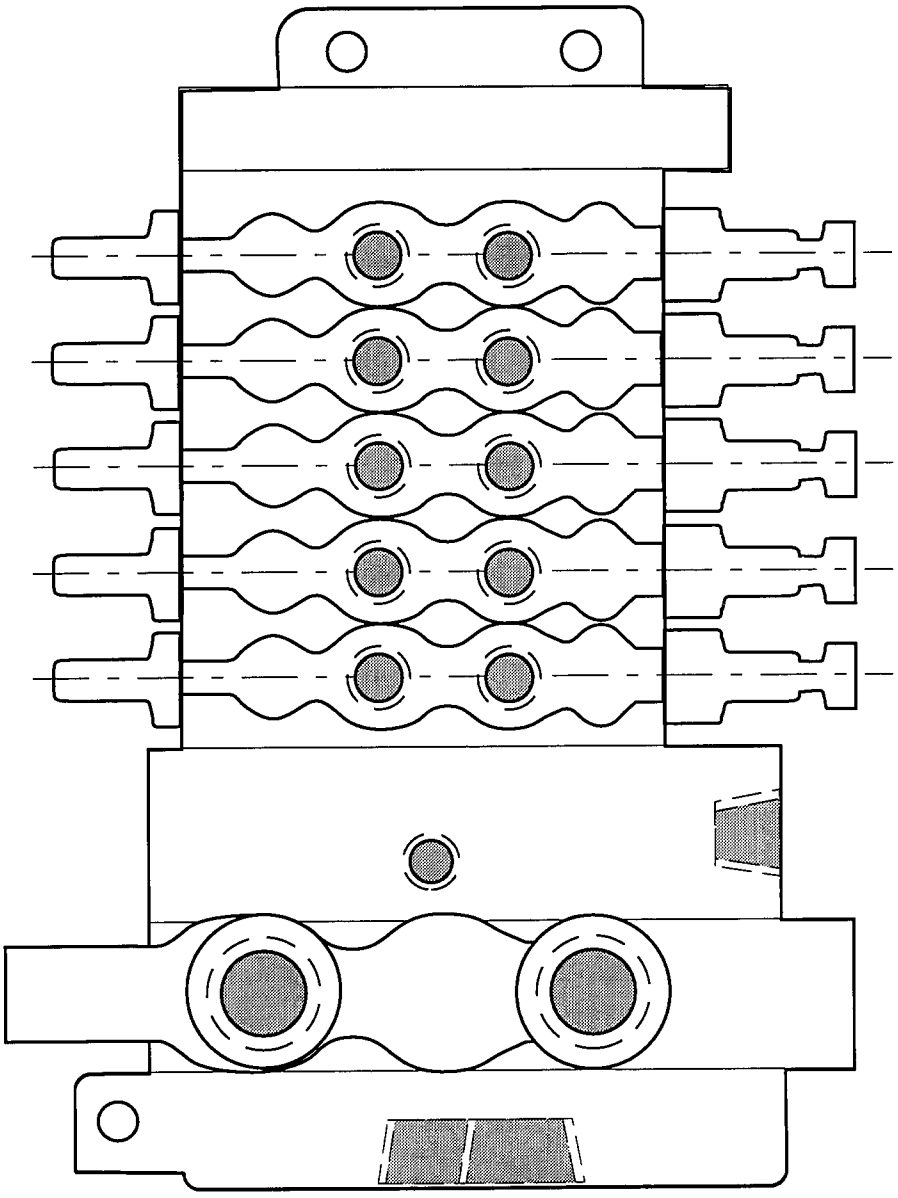
SIMON AERIALS INC.	REV. 23 MAR., 1995	PART NO.	PLATE NO. C02.37

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following valves, tubes,fittings and miscellaneous items may be included as part of the Valve Assembly:	
34	01-018200		VALVE, CHECK	1
35	01-068200		VALVE, CHECK (Pilot operated)	1
36	01-019000		VALVE, FLOW CONTROL (Needle valve) (#8 SAE)	2
37	01-021000		GAUGE, HYDRAULIC PRESSURE (0 to 4,000 PSI)	1
38	01-036700		"O"-RING (.924" I.D.)	1
39	06-039800		ADAPTER, "O"-RING TO 37° (6 F50X-S)	1
40	06-043000		ADAPTER (LONG), "O"-RING TO 37° (6 FF50X-S)	1
41	06-039900		ADAPTER, "O"-RING TO 37° (6-8 F50X-S)	4
42	06-040000		ADAPTER, "O"-RING TO 37° (6-10 F50X-S)	1
43	06-040100		ADAPTER, "O"-RING TO 37° (8 F50X-S)	5
44	06-207800		ADAPTER, SWIVEL NUT (8 F65X-S)	1
45	06-040800		ADAPTER, "O"-RING TO 37° (12 F50X-S)	1
46	06-043300		ADAPTER (LONG), "O"-RING TO 37° (12 FF50X-S)	2
47	06-041400		ADAPTER, "O"-RING TO 37° (16 F50X-S)	1
48	06-086600		ADAPTER, "O"-RING TO FEMALE NPT (6-1/4 F50G-S)	1
49	06-090600		REDUCER/ EXPANDER (8-6 F50 G5-S)	1
50	06-091100		REDUCER/ EXPANDER (12-8 F50 G5-S)	1
51	06-091900		REDUCER/ EXPANDER (16-12 F50 G5-S)	1
52	06-053000		45° ELBOW, SWIVEL NUT (6 V6X-S)	2
53	06-053100		45° ELBOW, SWIVEL NUT (8 V6X-S)	2
54	06-047000		45° ELBOW, STRAIGHT THREAD (6 V50X-S)	2
55	06-047100		45° ELBOW, STRAIGHT THREAD (8 V50X-S)	2
56	06-051500		90° ELBOW, SWIVEL NUT (6 C6X-S)	5
57	06-044600		90° ELBOW, STRAIGHT THREAD (6 C50X-S)	1
58	06-044700		90° ELBOW, STRAIGHT THREAD (6-8 C50X-S)	1
59	06-044800		90° ELBOW, STRAIGHT THREAD (8 C50X-S)	1
60	06-045600		90° ELBOW, STRAIGHT THREAD (12-16 C50X-S)	1
61	06-051600		90° ELBOW, SWIVEL NUT (8 C6X-S)	3
62	06-051800		90° ELBOW, SWIVEL NUT (12 C6X-S)	3
63	06-052000		90° ELBOW, SWIVEL NUT (16 C6X-S)	1
64	06-097300		90° ADAPTER, BENT STEM (63 UC-08-08)	1
65	06-054500		RUN TEE, 37° FEMALE SWIVEL NUT (6 R6X-S)	2
66	06-048600		RUN TEE, 37° MALE "O"-RING (8 R50X-S)	1
67	06-056000		BRANCH TEE, 37° FEMALE SWIVEL NUT (6 S6X-S)	1
68	06-057600		NUT, TUBE (8 BTX-S)	1
69	06-060300		REDUCER, TUBE END (8-6 TRTX-S)	1
70	219 0140		TUBE ASSEMBLY (1/2" tubing, straight, 2-1/4" [57 mm] long)	1
71	219 0160		TUBE ASSEMBLY (3/8", "J" shape, 8-7/16" [214 mm] long)	1
72	350 7665		TUBE ASSEMBLY (3/4" tubing, straight)	1
73	353 4140		TUBE ASSEMBLY (3/8" tubing, "L" shape)	1

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

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



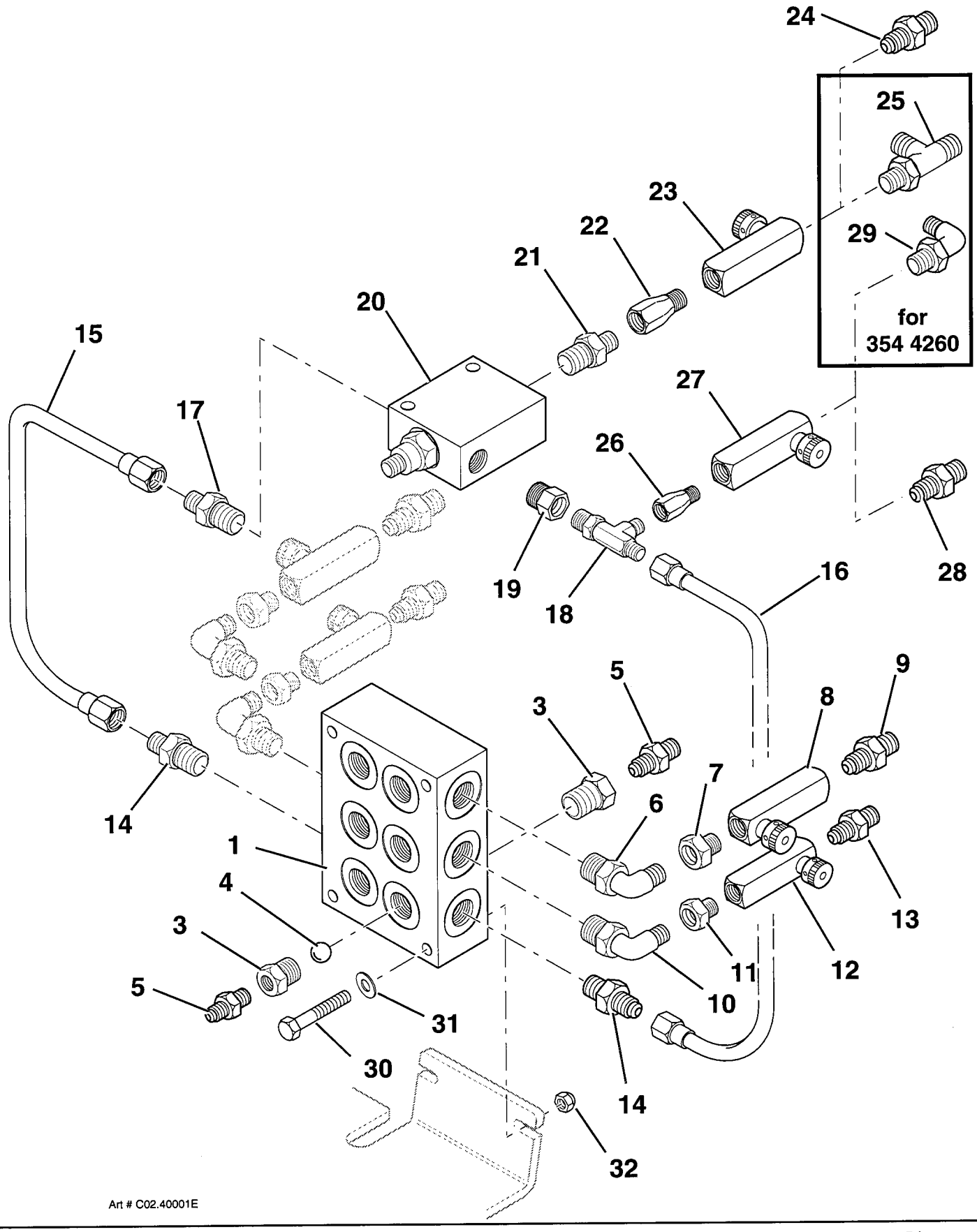
C02.20202E

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)

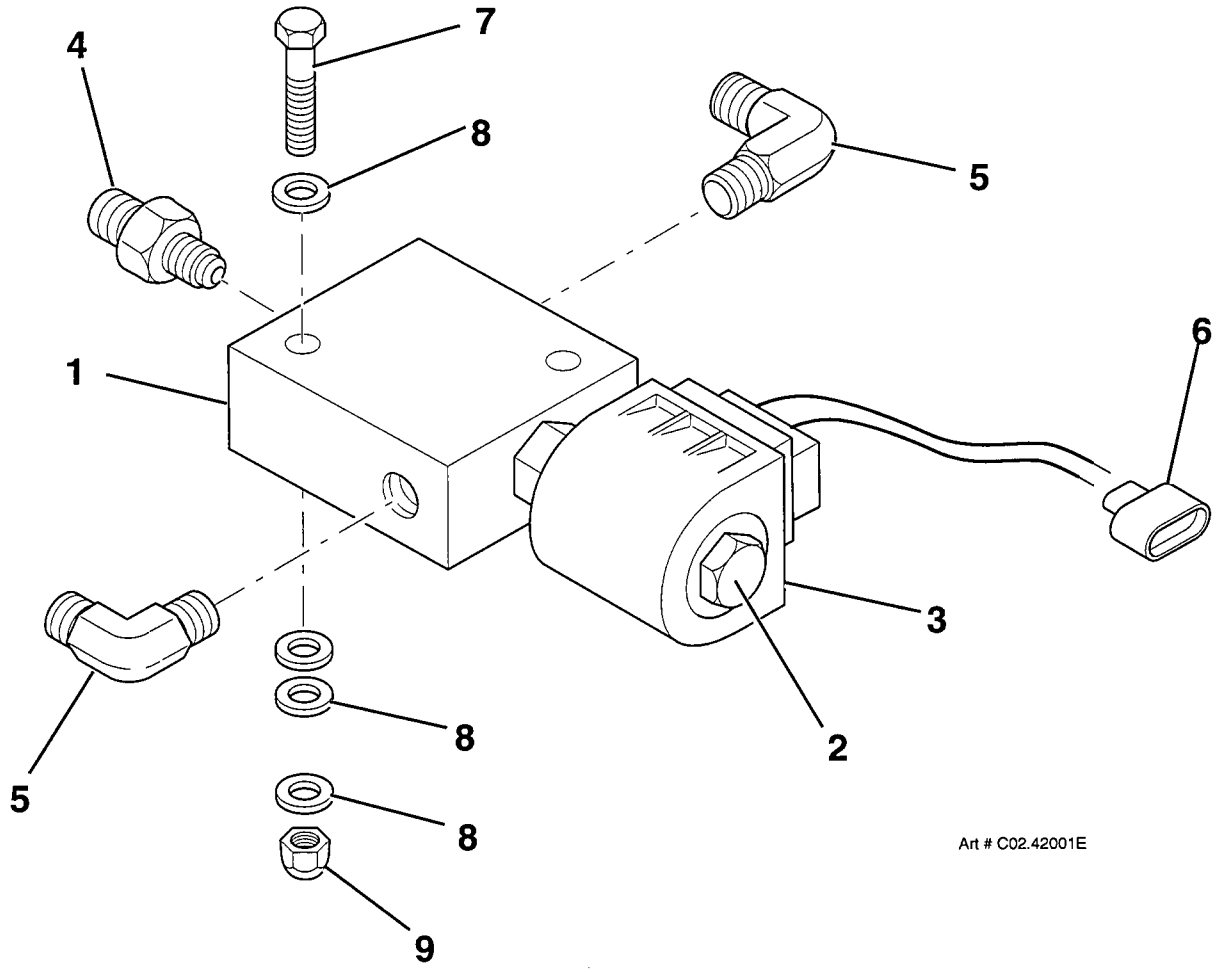
SIMON AERIALS INC. NEW 01 SEP., 1995	PART NO.	PLATE NO. C02.40

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



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

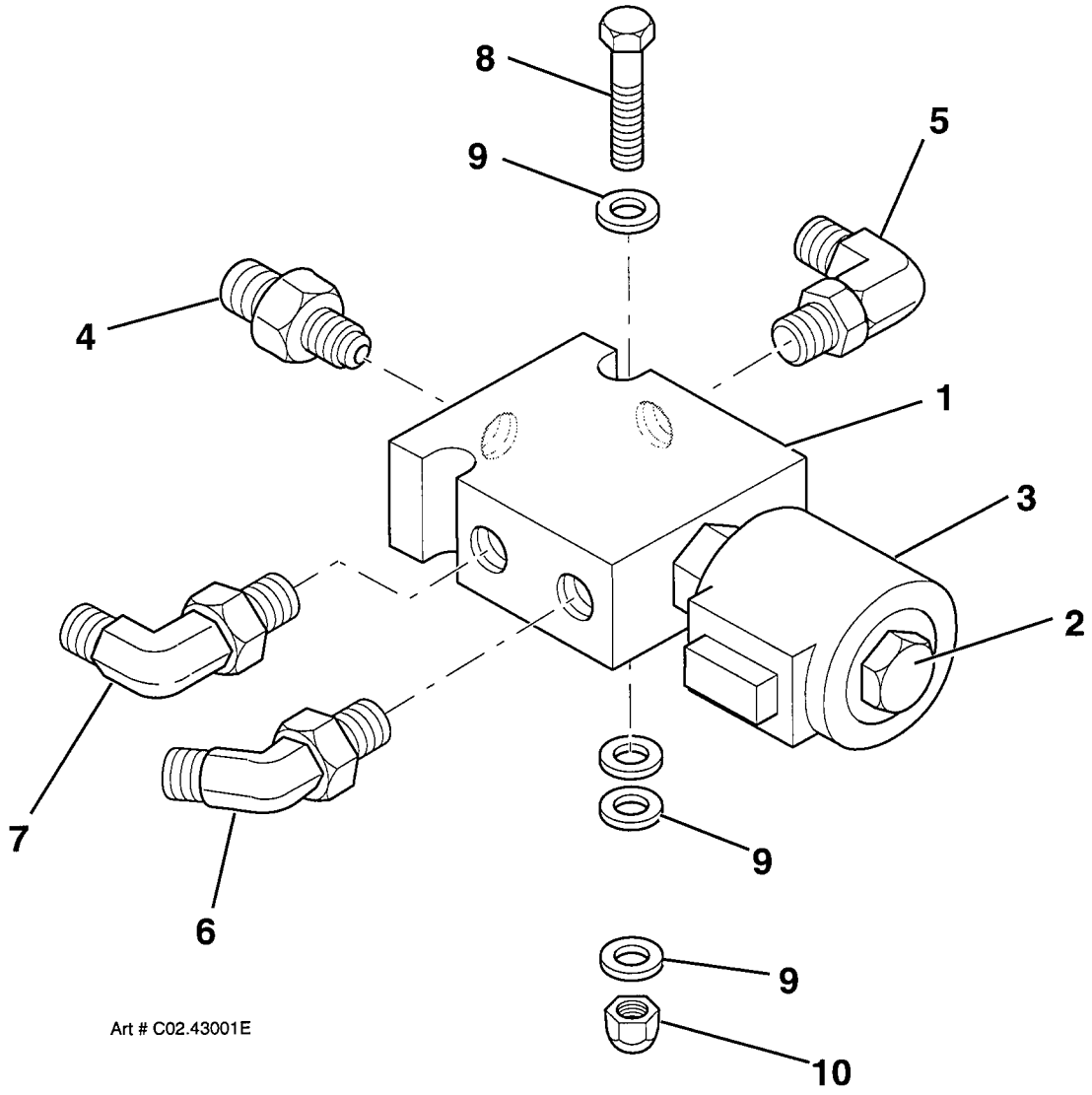
SIMON AERIALS INC. NEW 06 SEP., 1995	PART NO. 354 4170	PLATE NO. C02.42

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

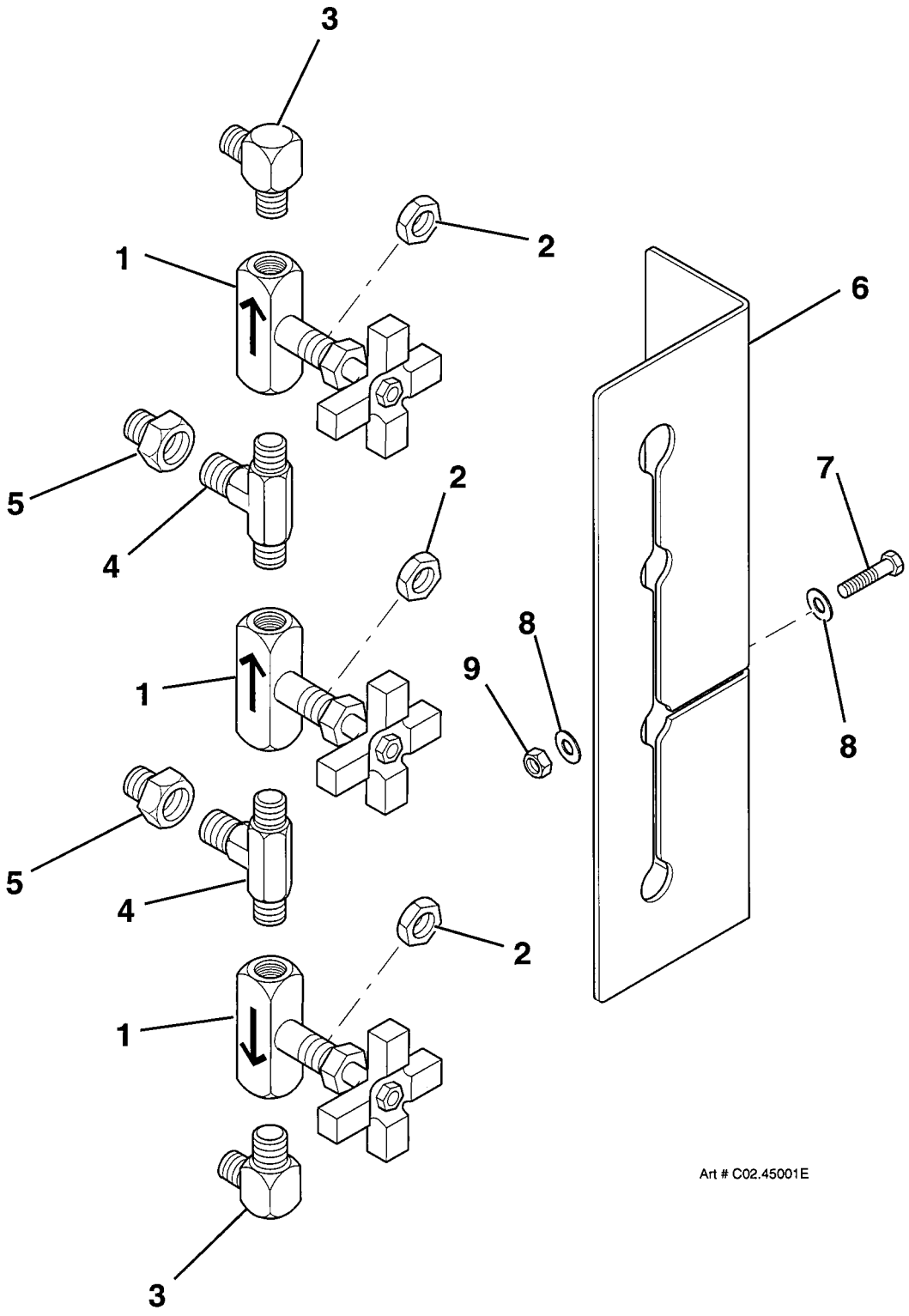
TITLE TWO-SPEED VALVE ASSEMBLY (MP SERIES, WITH FOUR WHEEL DRIVE)

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

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
	354 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.



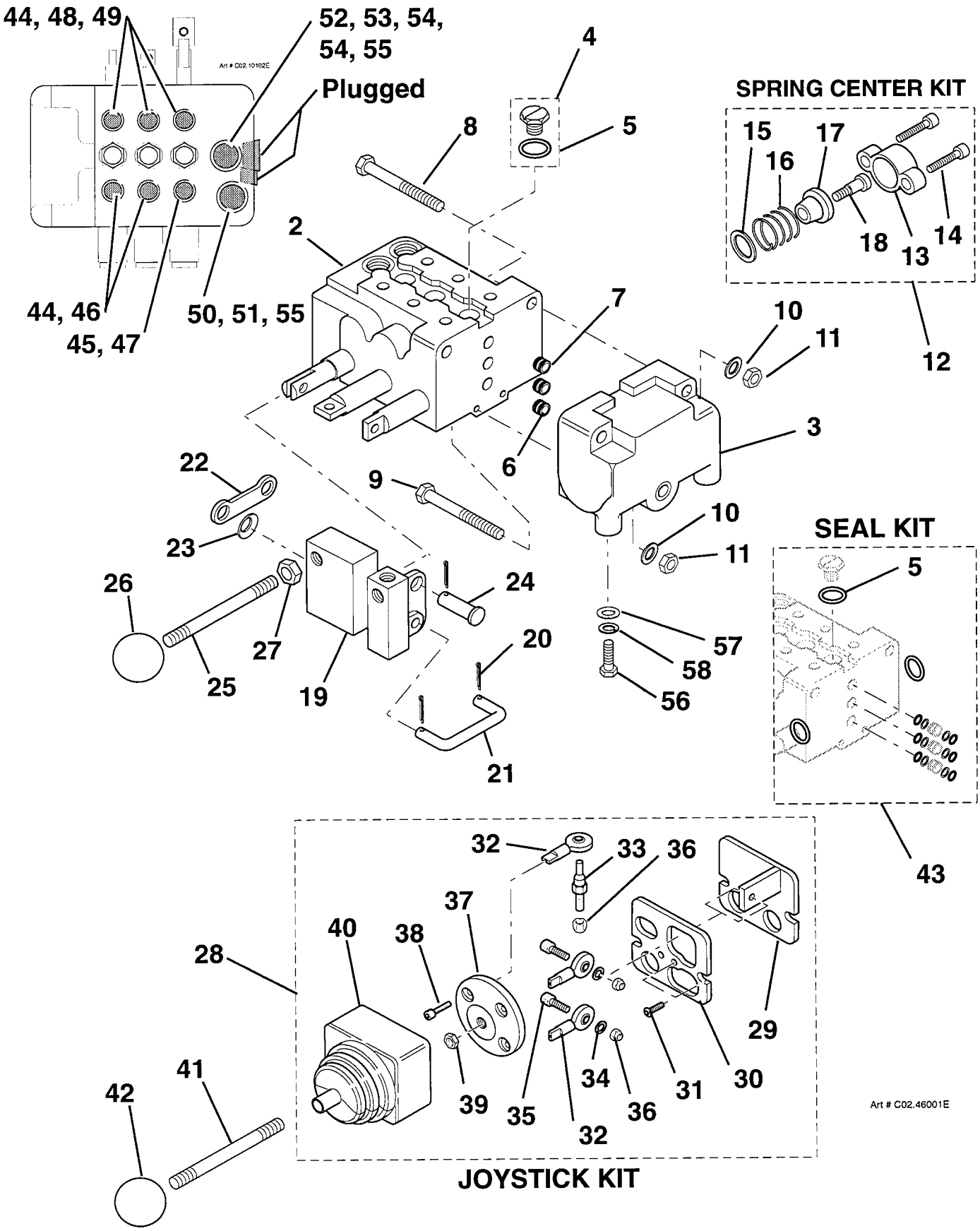
TITLE	MANUAL DESCENT VALVE ASSEMBLY		
SIMON AERIALS INC.	NEW 05 SEP., 1995	PART NO.	PLATE NO. C02.45

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.



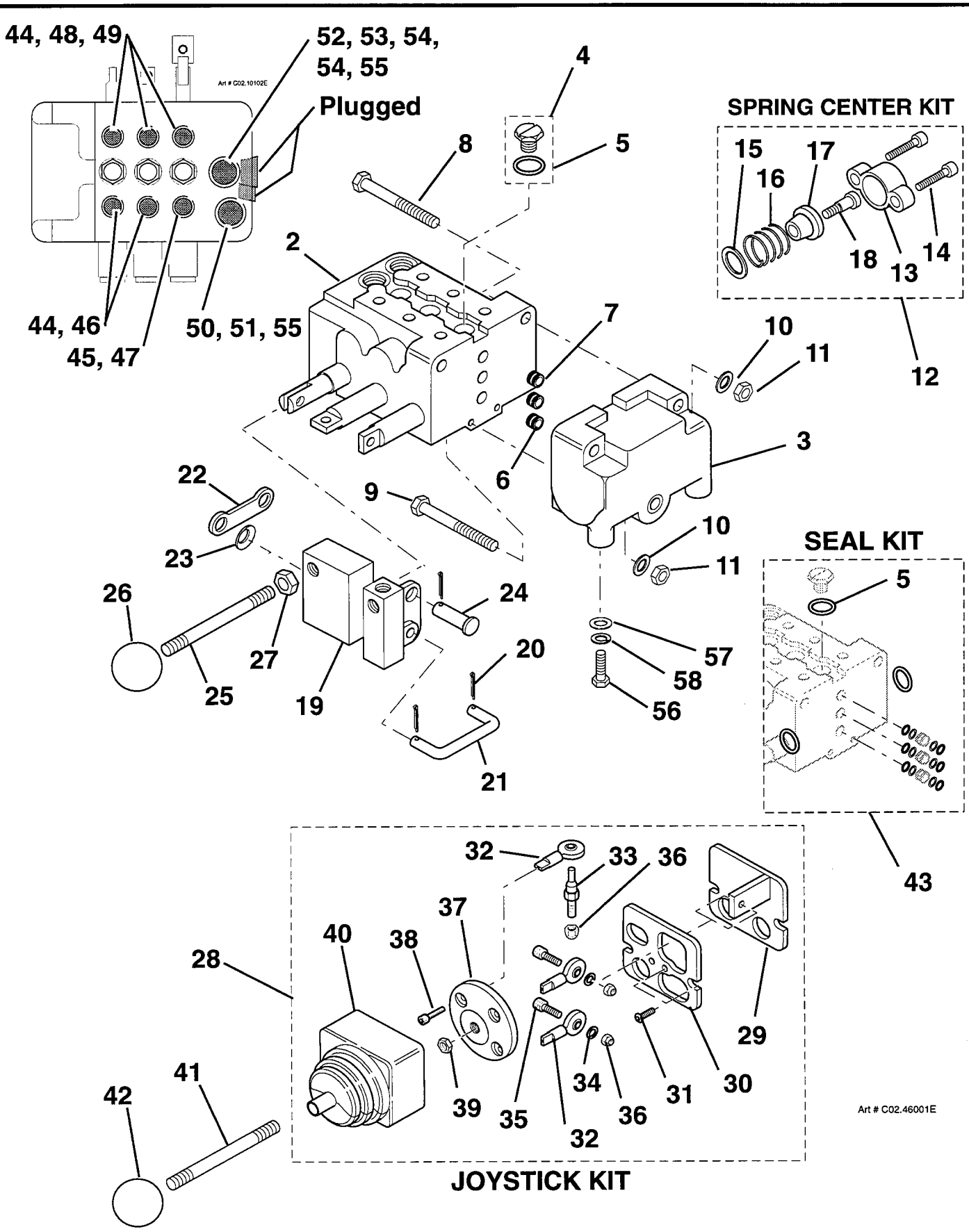
TITLE	PLATFORM VALVE BANK ASSEMBLY, 3 SPOOL (PLATE 1 OF 2)
SIMON AERIALS INC. REV. 14 JAN., 1996	PART NO. / PLATE NO. C02.46

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

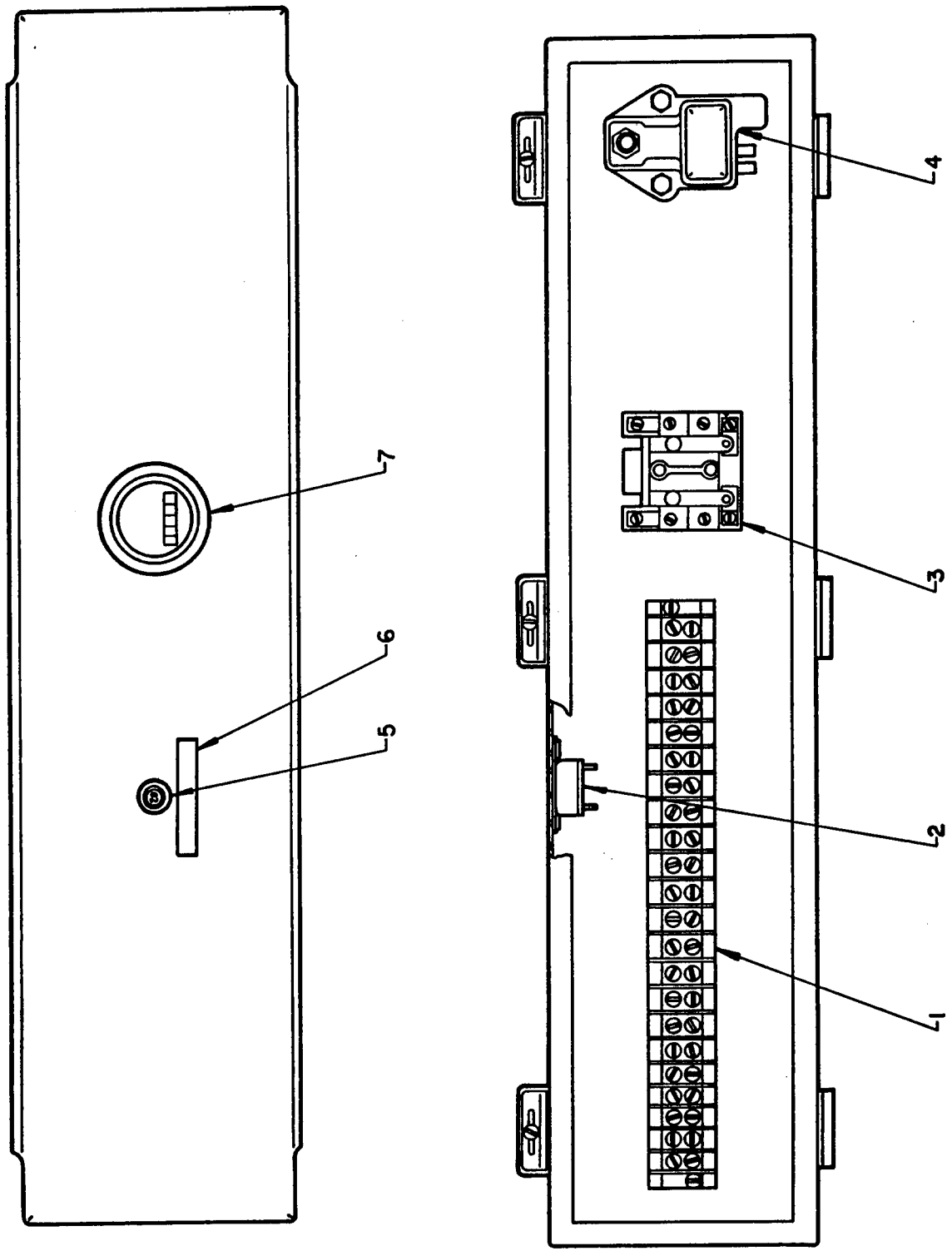


TITLE	PLATFORM VALVE BANK ASSEMBLY, 3 SPOOL (PLATE 2 OF 2)
SIMON AERIALS INC. REV. 14 JAN., 1996	PART NO. / PLATE NO. C02.46

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	03-060000		TEMINAL STRIP	1
2	03-024700		CIRCUIT BREAKER, 20 AMP (05/82)	1
3	03-050400		CONTROL RELAY, DPST	1
4	03-050200		HORN RELAY	1
5	03-024000		CIRCUIT BREAKER, 20 AMP	1
6			DECAL, 20 AMP CIRCUIT BREAKER	1
7	03-030500		HOUR METER	1

DESCRIPTION	PART NO.
GROUND CONTROL BOX	CAA-206246-6



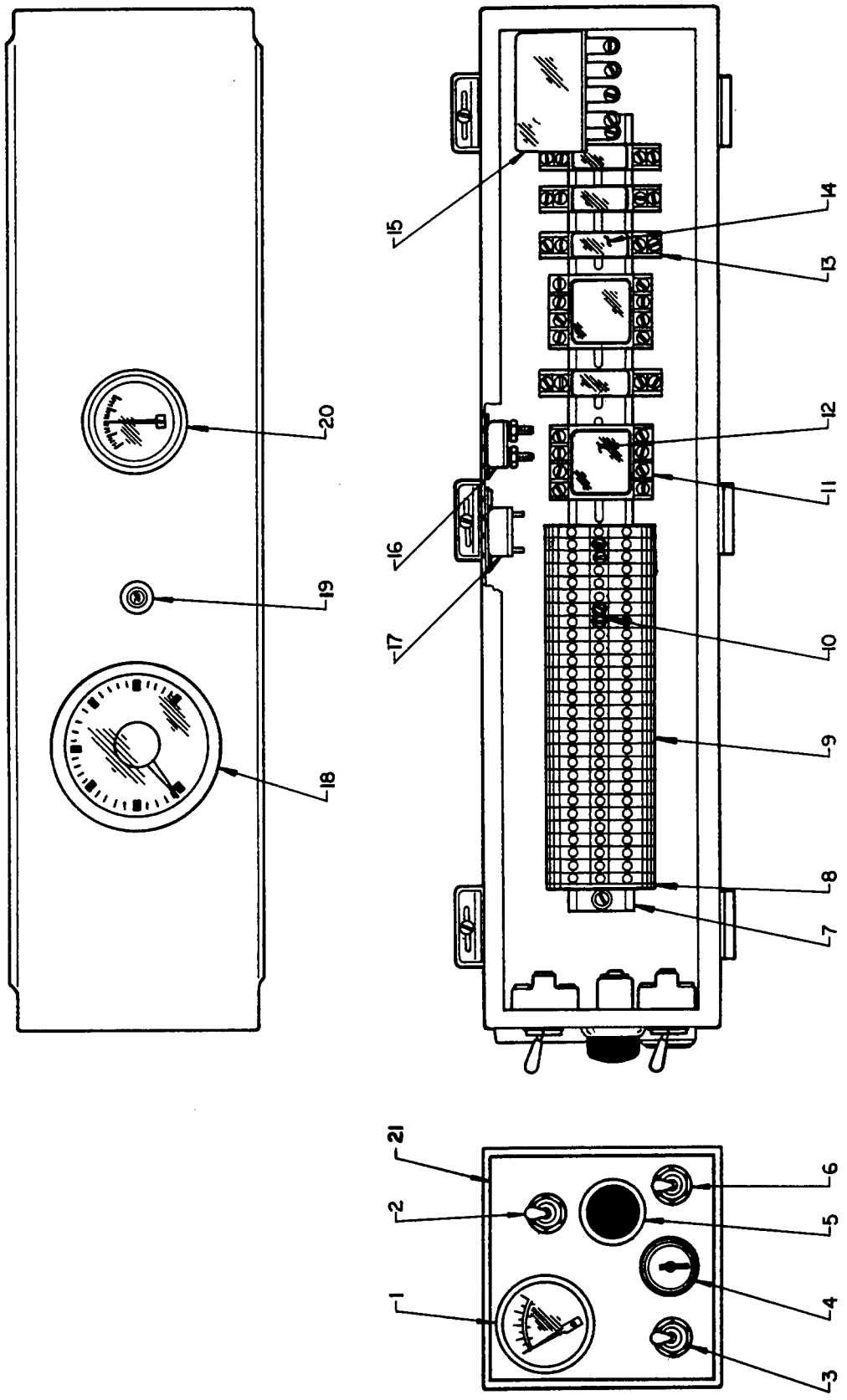
0584/0682

DESCRIPTION	PART NO.
GROUND CONTROL BOX	CAA-206246-6

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	03-030300		OIL PRESSURE GAUGE	1
2	03-020700		TOGGLE SWITCH, 4 PDT (GROUND OVERRIDE)	1
3	03-020400		TOGGLE SWITCH, SPST (IGNITION)	1
4	03-021000		KEYSWITCH	1
5	03-020300		PUSH BUTTON (ENGINE START)	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		LINE 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	03-024100		CIRCUIT BREAKER, 10 AMP	1
17	03-024700		CIRCUIT BREAKER, 20 AMP	1
18	09-000407		TACHOMETER	1
19	03-024000		CIRCUIT BREAKER, 20 AMP	1
20	03-030400		AMMETER	1
21	10-024500		DECAL	1

DESCRIPTION	PART NO.
GROUND CONTROL BOX (DIESEL ENGINE)	CAA-207230-8



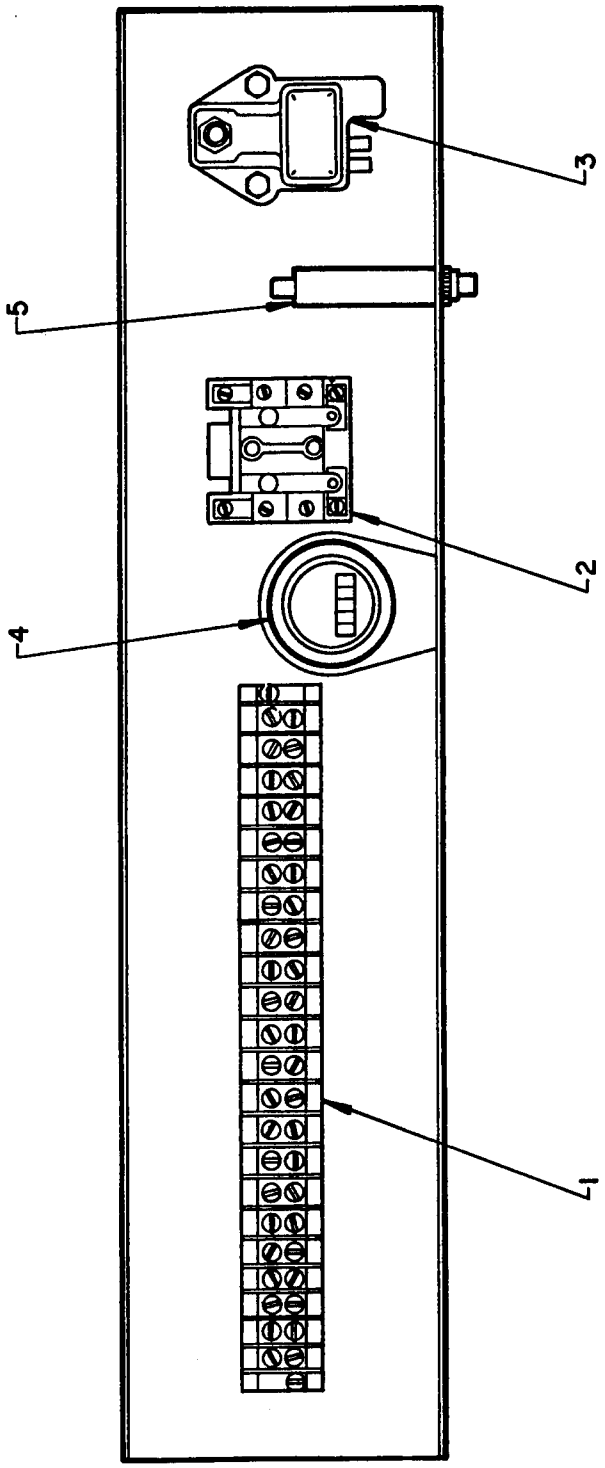
0884/0784

DESCRIPTION	PART NO.
GROUND CONTROL BOX (DIESEL ENGINE)	CAA-207230-8

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	03-060000		TERMINAL STRIP	1
2	03-050400		CONTROL RELAY, DPST	1
3	03-050200		HORN RELAY	1
4	03-030500		HOUR METER	1
5	03-024000		CIRCUIT BREAKER, 20 AMP	1

DESCRIPTION	PART NO.
GROUND CONTROL BOX	CAA-207250-4



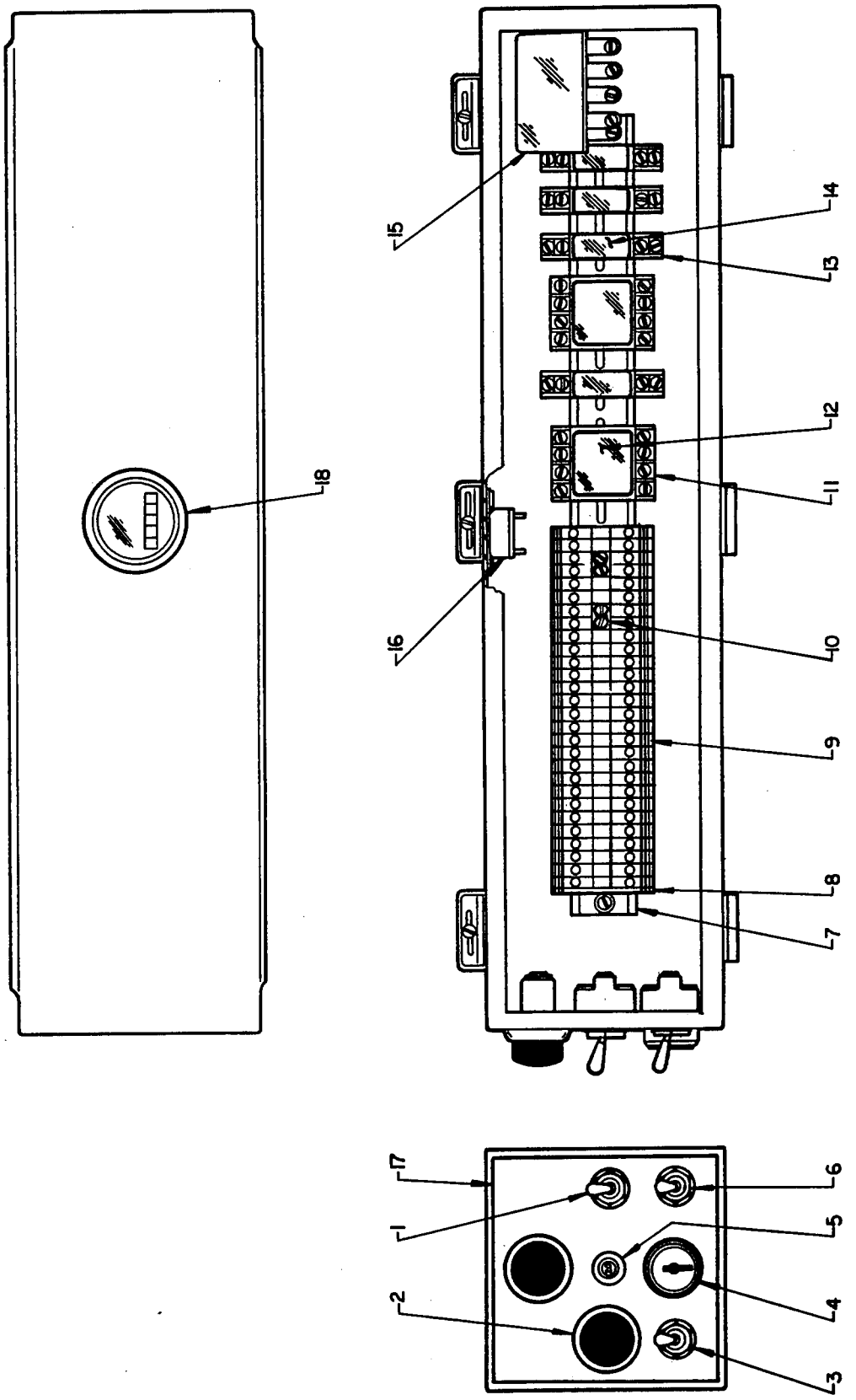
1284/0677

DESCRIPTION	PART NO.
GROUND CONTROL BOX	CAA-207250-4

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



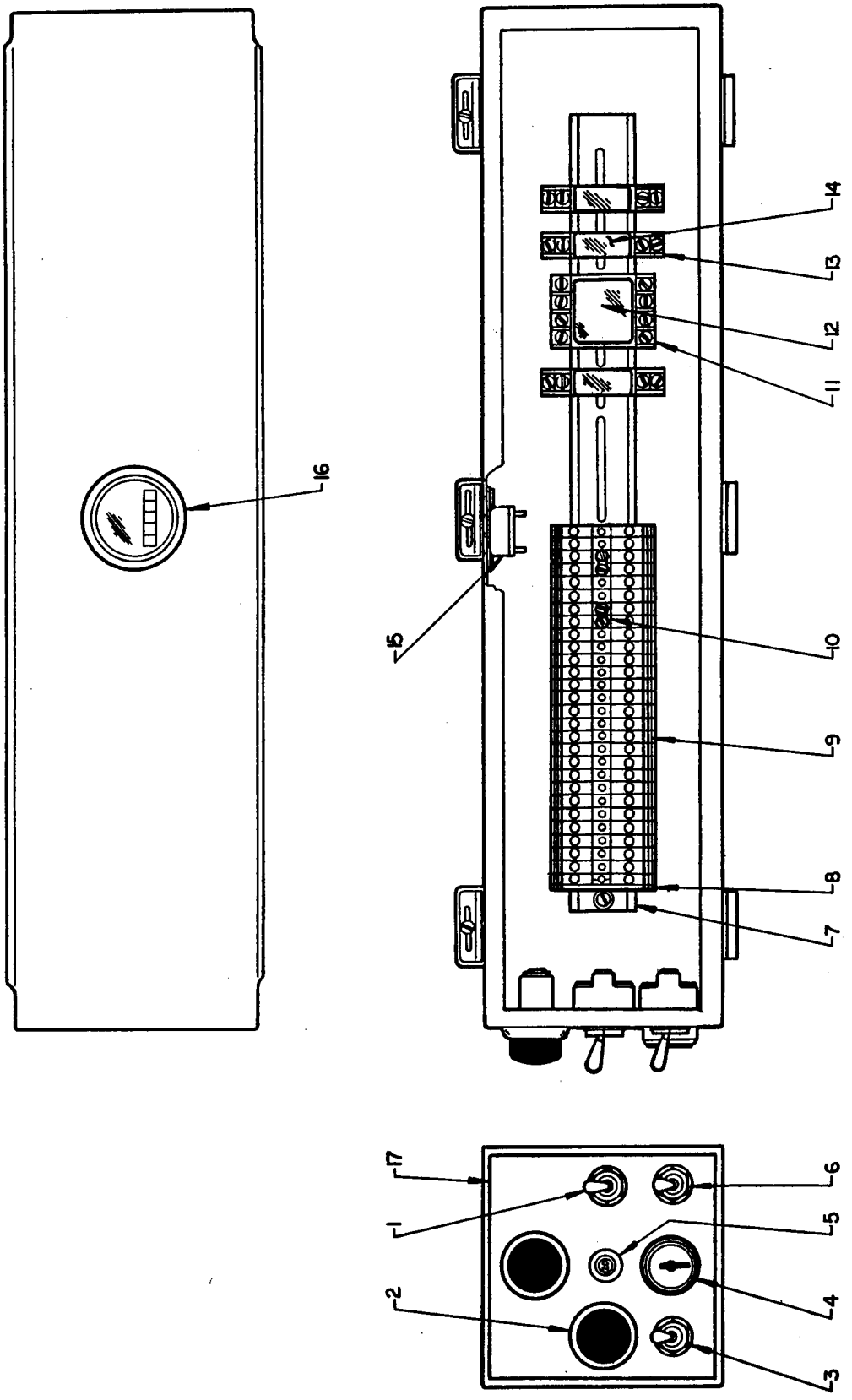
0385/1184

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

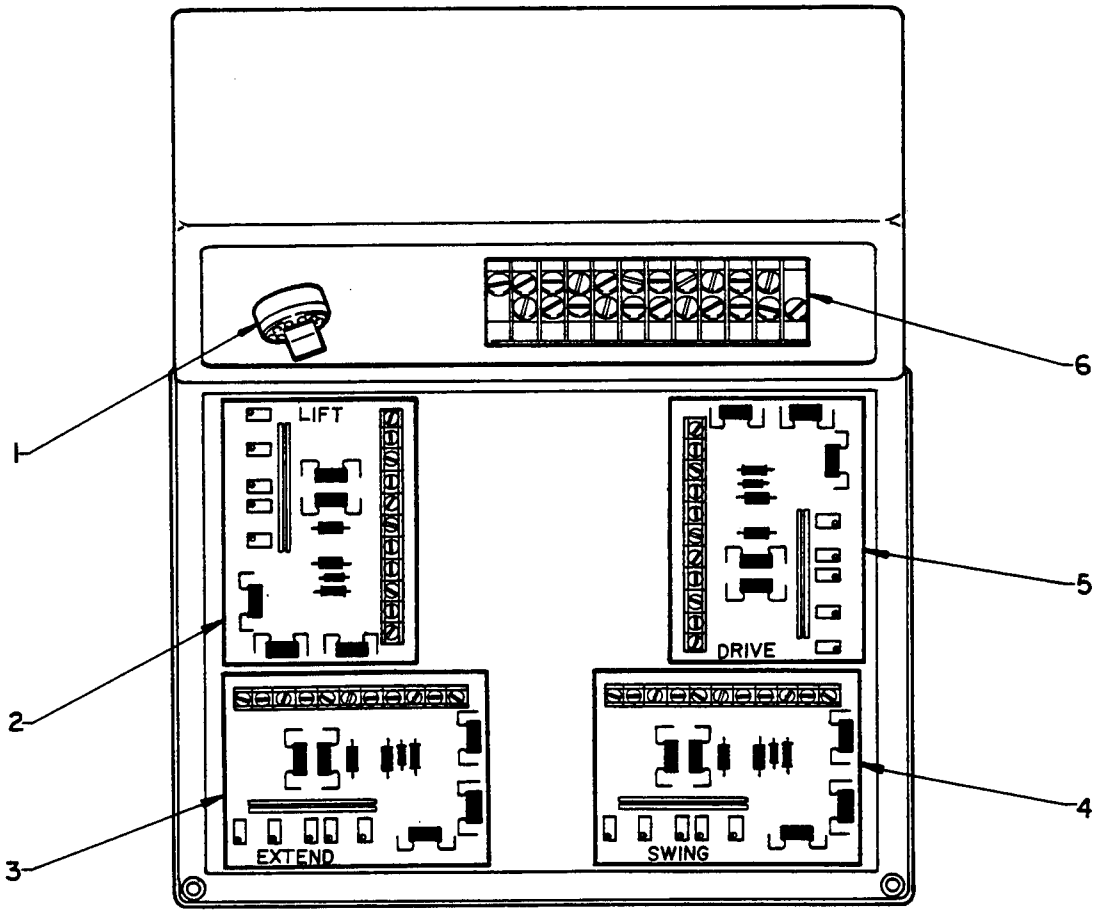
DESCRIPTION	PART NO.
GROUND CONTROL BOX (GAS ENGINE)	CAA-208463-9

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
GROUND CONTROL BOX (PROPORTIONAL CONTROLS)

PART NO.
CAA-208493-4



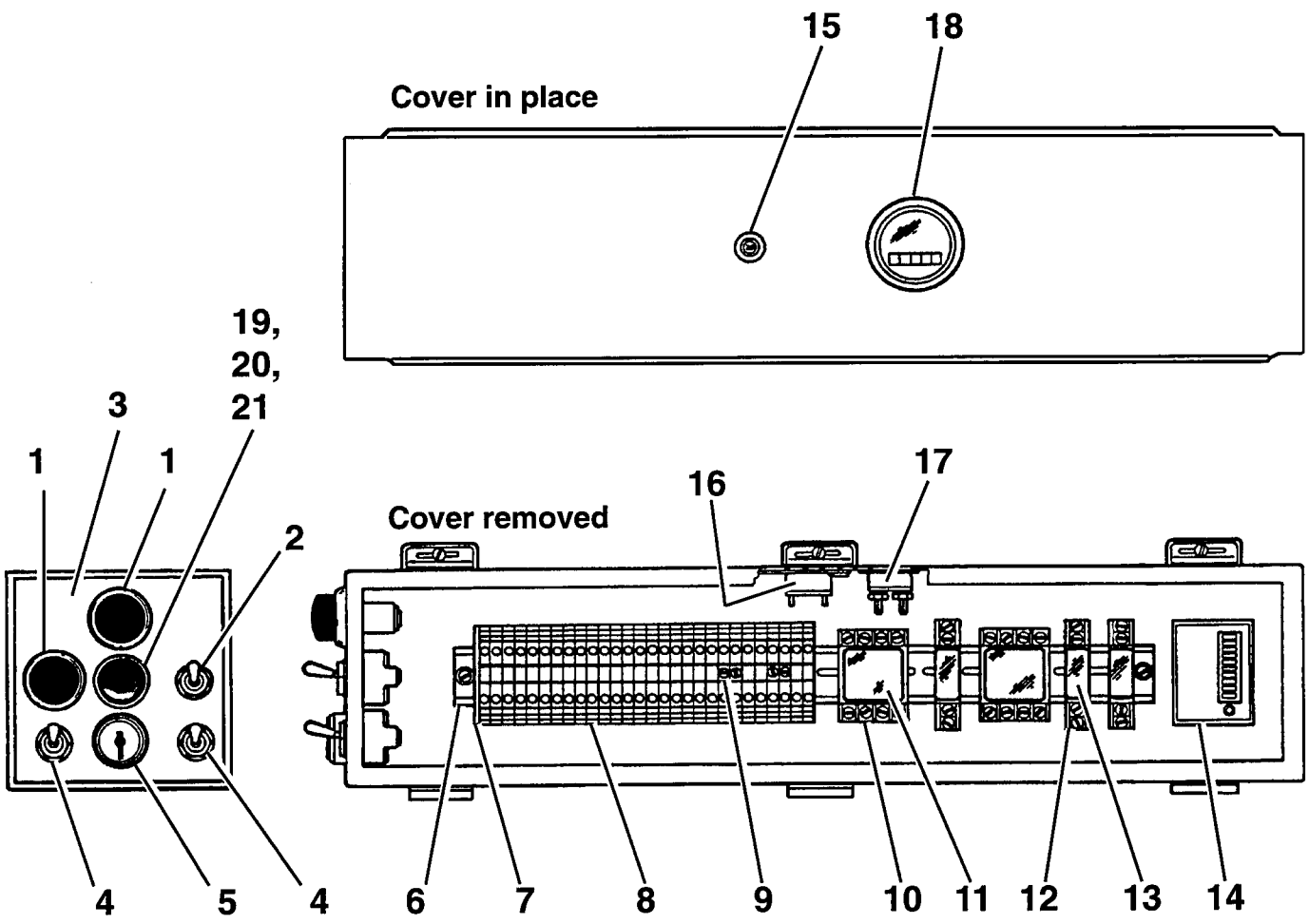
0885/0785

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.

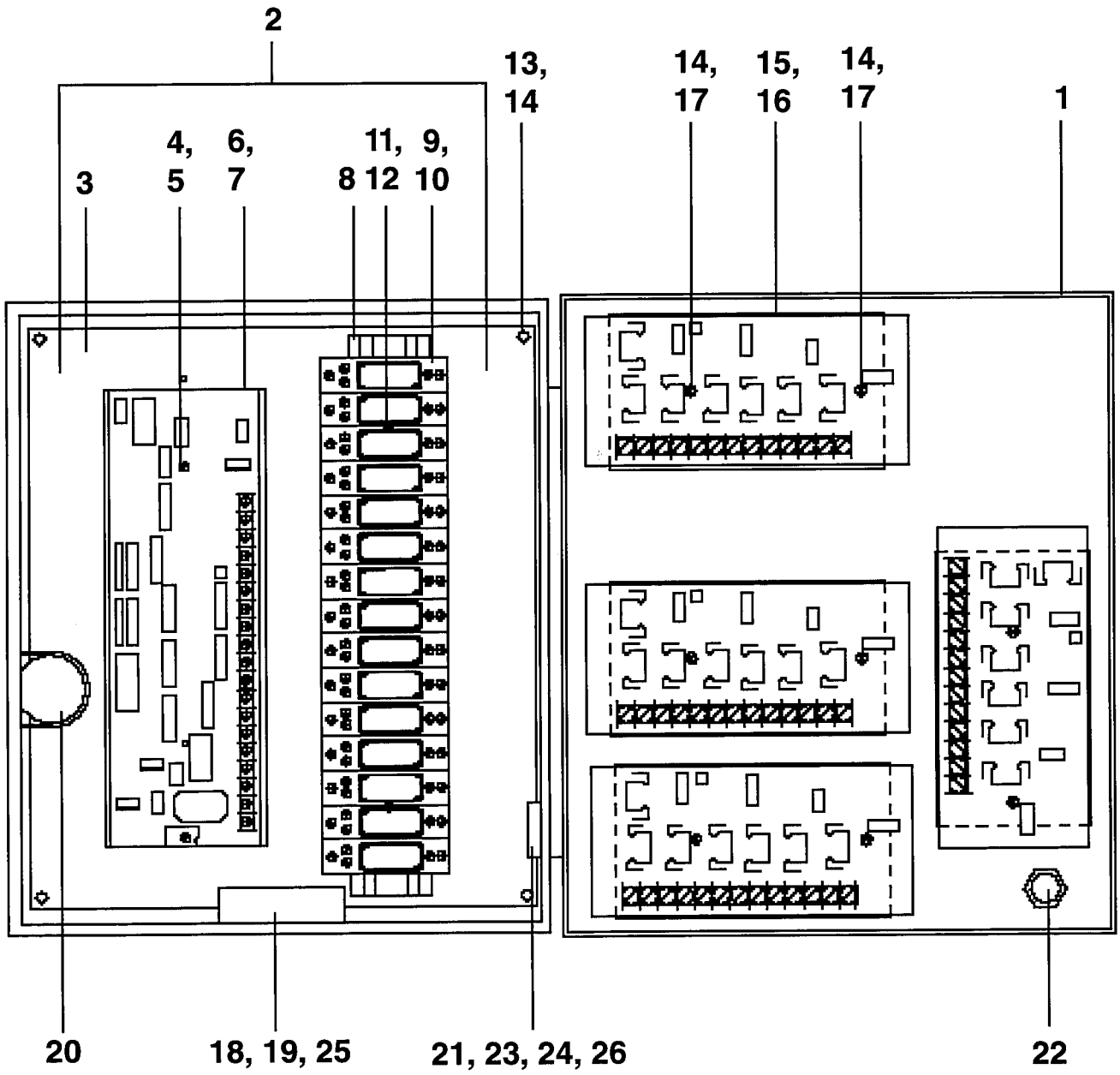


TITLE	GROUND CONTROL BOX ASSEMBLY		
SIMON AERIALS INC. REV. 10/01/90		PART NO.	PLATE NO. C03.18

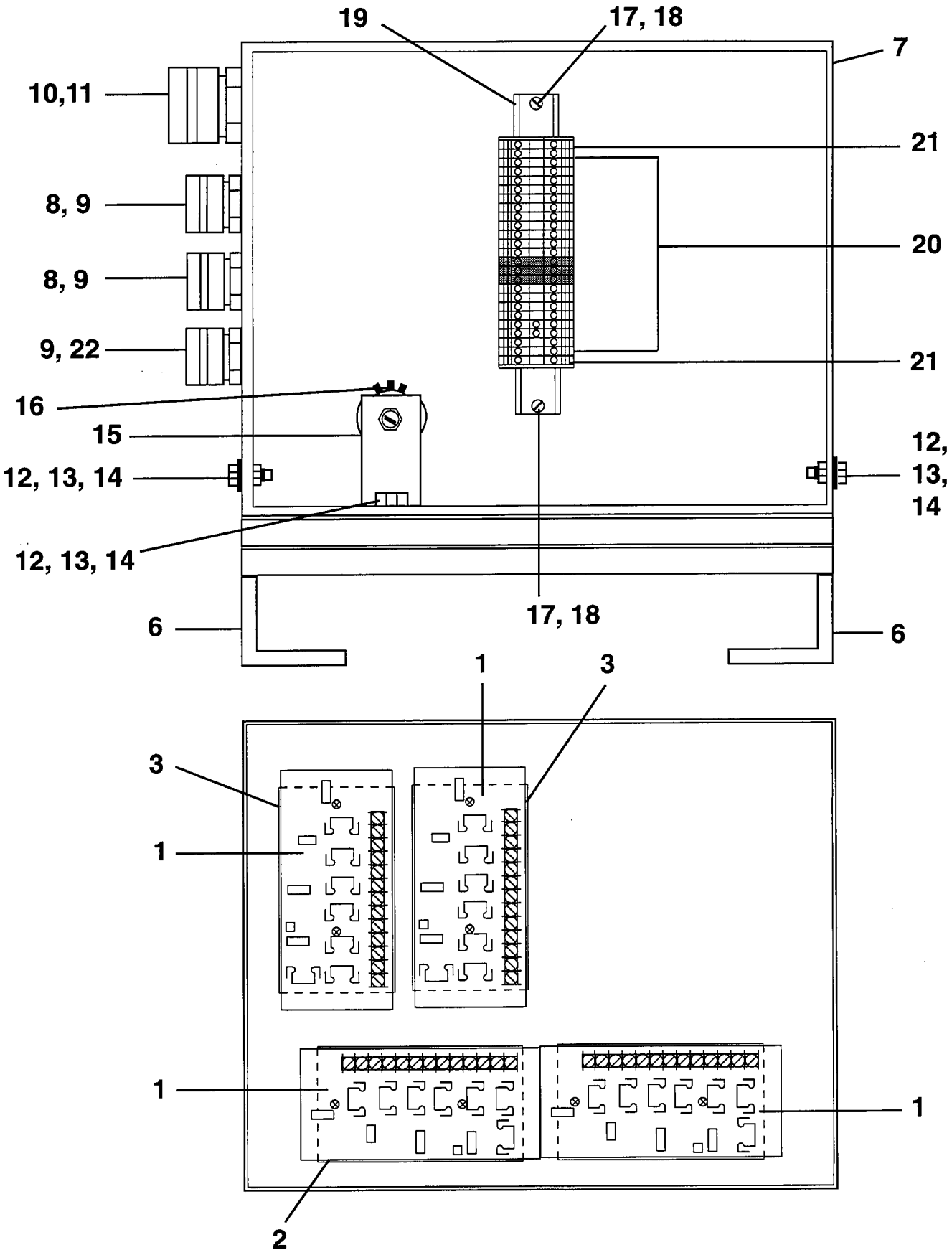
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	214308-0		ELECTRICAL BOX, MODIFIED (12" X 14" X 6")	1
2	214323-0		BACK PLATE ASSEMBLY (Incl. items 3 thru 12)	1
3	214300-0		BACK PLATE	1
4	07-011355		ROUND HEAD MACHINE SCREW (#10-24 X 3/4)	2
5	07-050011		LOCK NUT (#10-24)	2
6	214324-0		MOUNTING CHANNEL, 10 "	1
7	03-425100		RECEIVER BOARD (PQ # Model910)	1
8	03-051700		MOUNTING TRACK, 12"	1
9	03-051500		RELAY, SMALL	AR
10	03-051600		RELAY BASE, SMALL	AR
11	07-011335		ROUND HEAD MACHINE SCREW (#6-32 X 1/2)	2
12	07-050007		LOCK NUT (#6-32)	2
13	07-065011		LOCKWASHER (#10)	4
14	07-011352		ROUND HEAD MACHINE SCREW (#10-24 X 3/8)	12
15	214298-0		MOUNTING TRACK, 6"	4
16	03-039700		OUTPUT BOARD (PQ Model 590)	4
17	07-050011		LOCK NUT (#10-24)	8
18	07-011344		ROUND HEAD MACHINE SCREW (#8-32 X 3/4)	2
19	07-050009		LOCK NUT (#8-32)	2
20	03-408100		NOISE FILTER (ARCHER #270-051)	1
21	03-450100		CONNECTOR, 23 PIN	1
22	03-404700		LIGHT (Niehoff #UN-205)	1
23	03-450200		NUT	1
24	03-450300		LOCKWASHER	1
25	03-425200		PREAMP (PQ #B-03188-XX)	1
26	03-450900		PIN, TERMINAL	23

TITLE	ELECTRICAL BOX ASSEMBLY, HYDRAPORT (FIBER OPTIC)			
PLATE NO.	C03.21	**SIMON AERIALS INC.**	REV. 13/08/91	PART NO.



TITLE	ELECTRICAL BOX ASSEMBLY, HYDRAPORT (FIBER OPTIC)		
SIMON AERIALS INC.	REV. 13/08/91	PART NO.	PLATE NO. C03.21



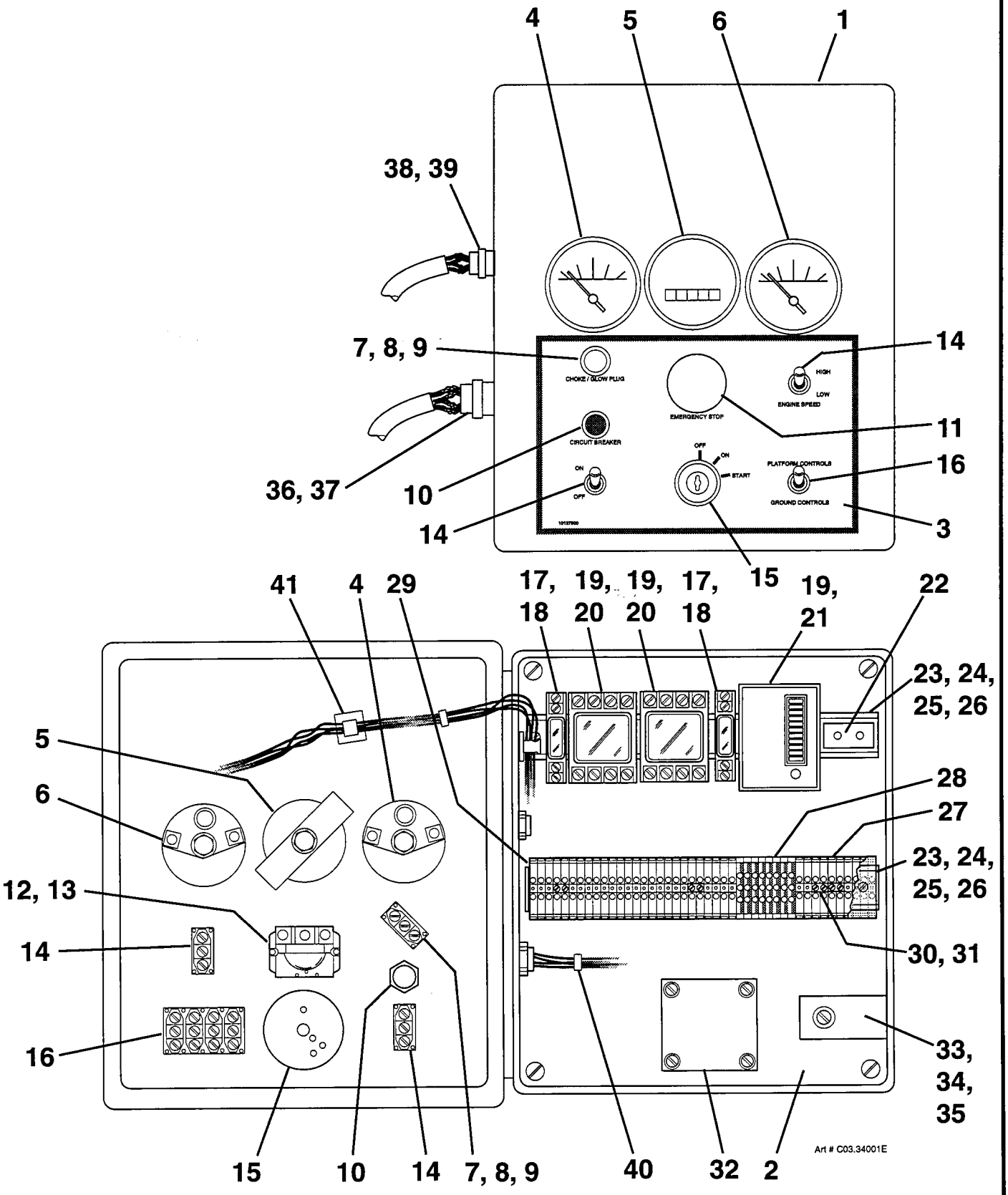
TITLE	ELECTRICAL BOX ASSEMBLY - DRIVE CARDS		
SIMON AERIALS INC.	REV. 10/01/91	PART NO. 2150110	PLATE NO. C03.32

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.



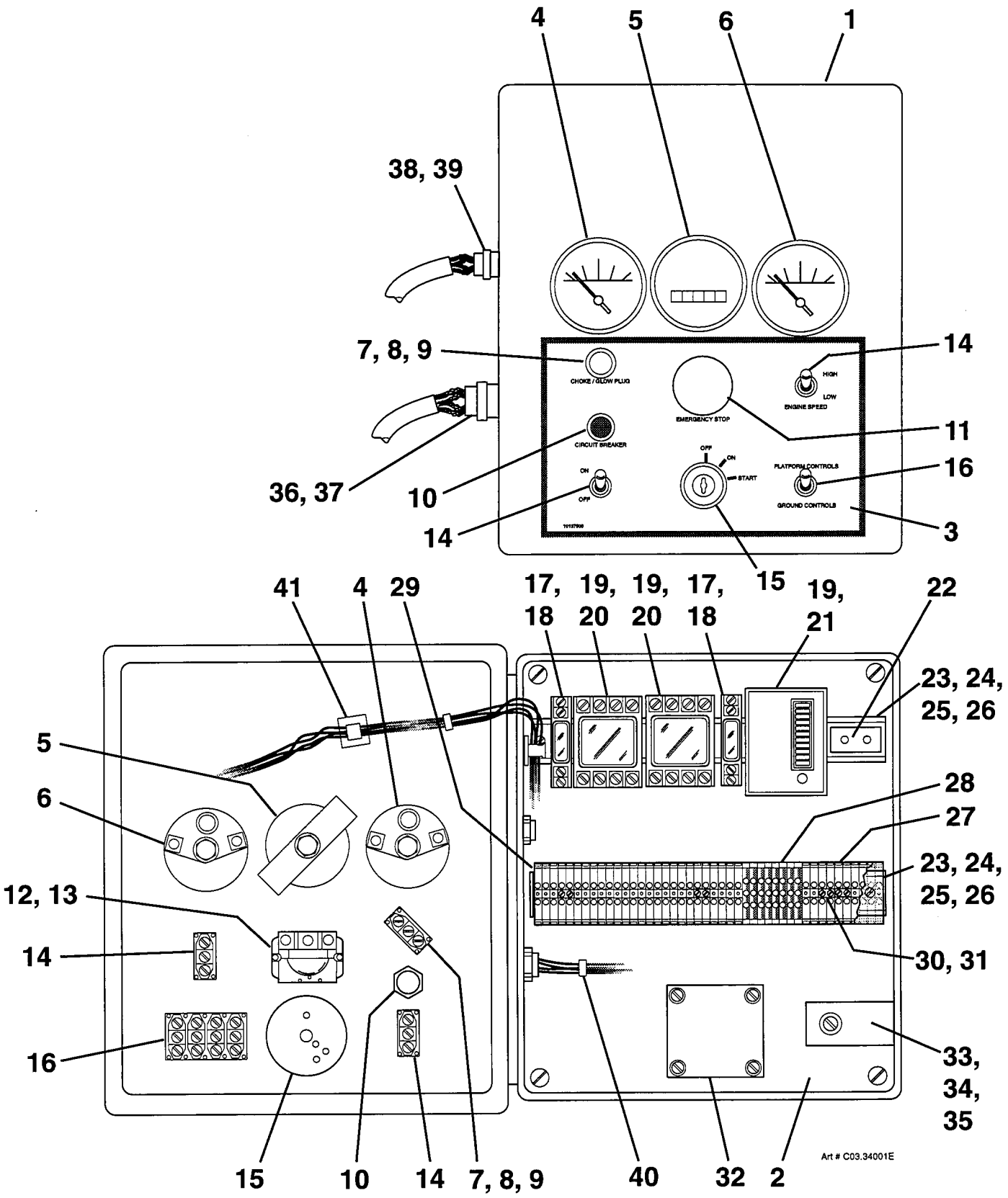
TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 1 OF 2)
SIMON AERIALS INC.	NEW 28 APR., 1992
PART NO.	
PLATE NO.	C03.34

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.

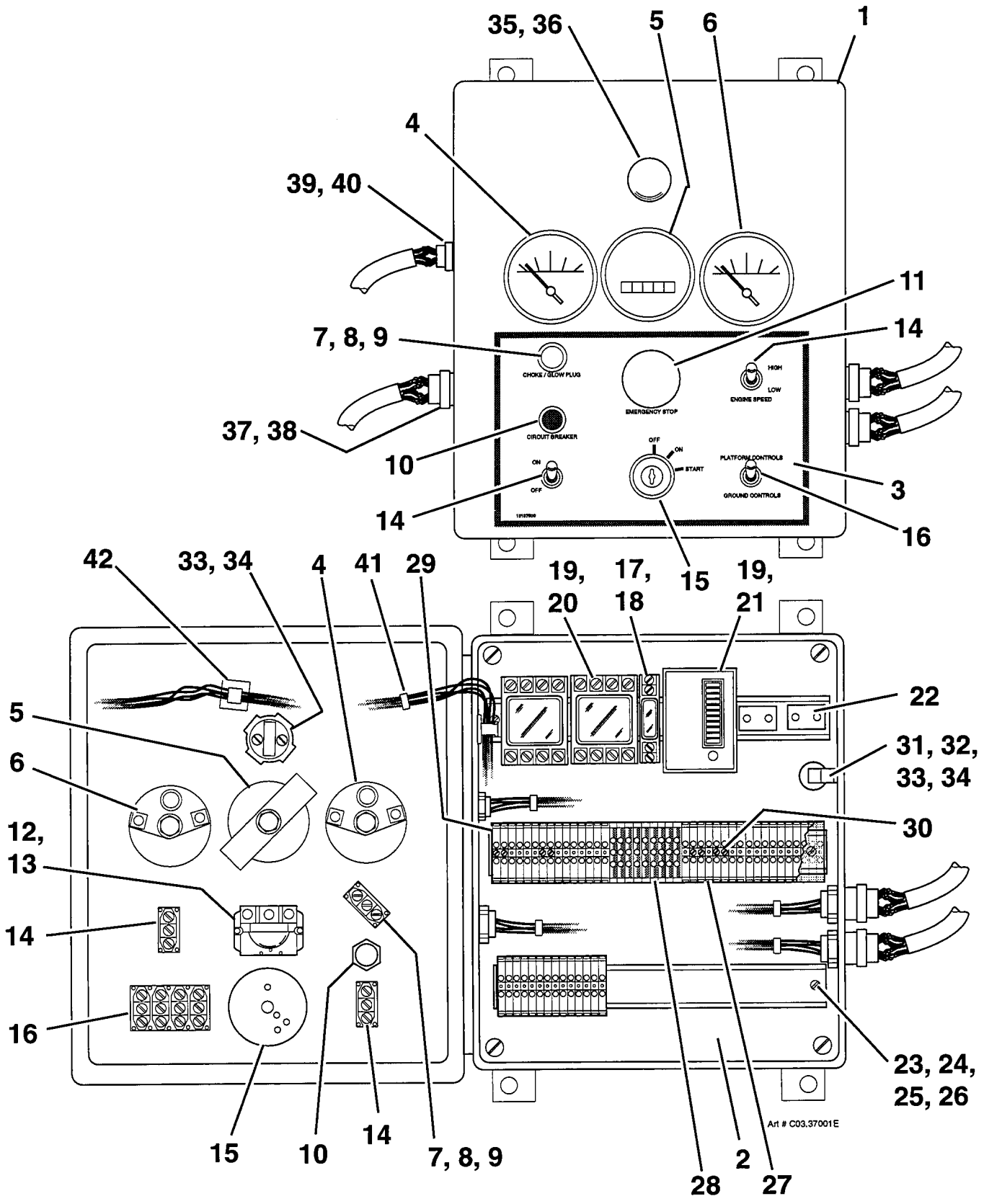


TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 2 OF 2)		
SIMON AERIALS INC. NEW 28 APR., 1992		PART NO.	PLATE NO. C03.34

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.

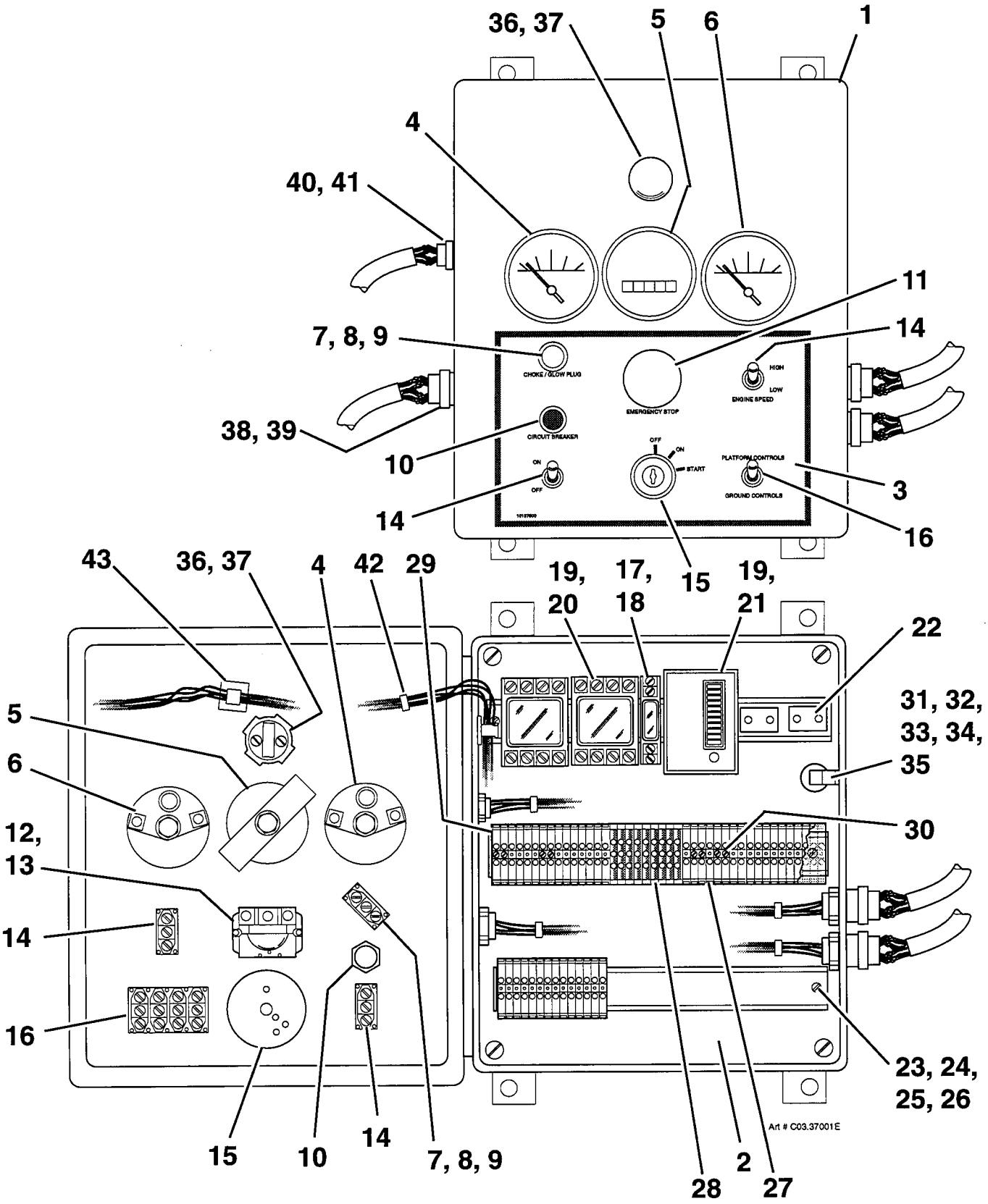


TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 1 OF 2)		
SIMON AERIALS INC. NEW 13 DEC., 1993		PART NO.	PLATE NO. C03.37

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.	



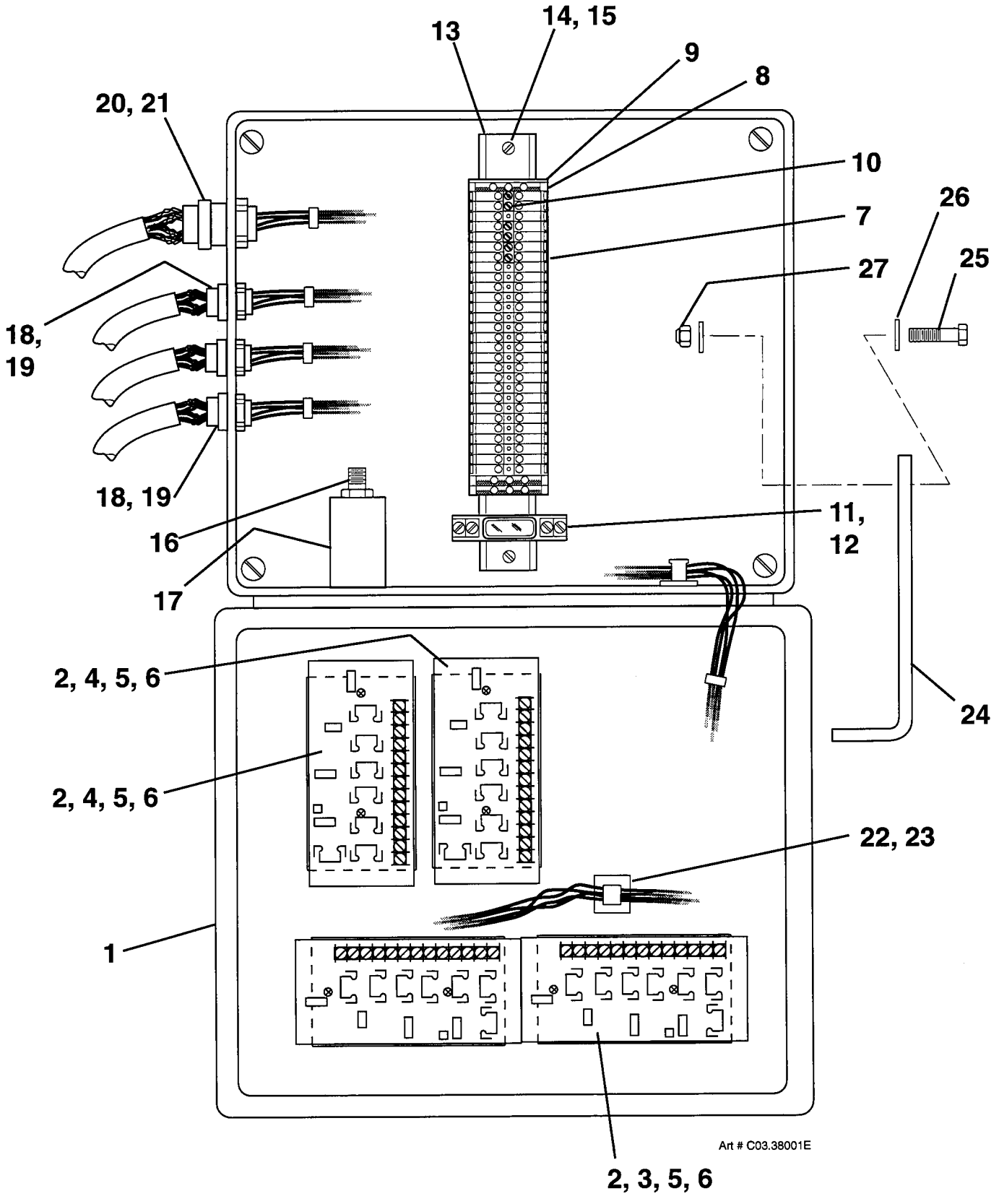
TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 2 OF 2)		
SIMON AERIALS INC.	NEW 13 DEC., 1993	PART NO.	PLATE NO. C03.37

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.**

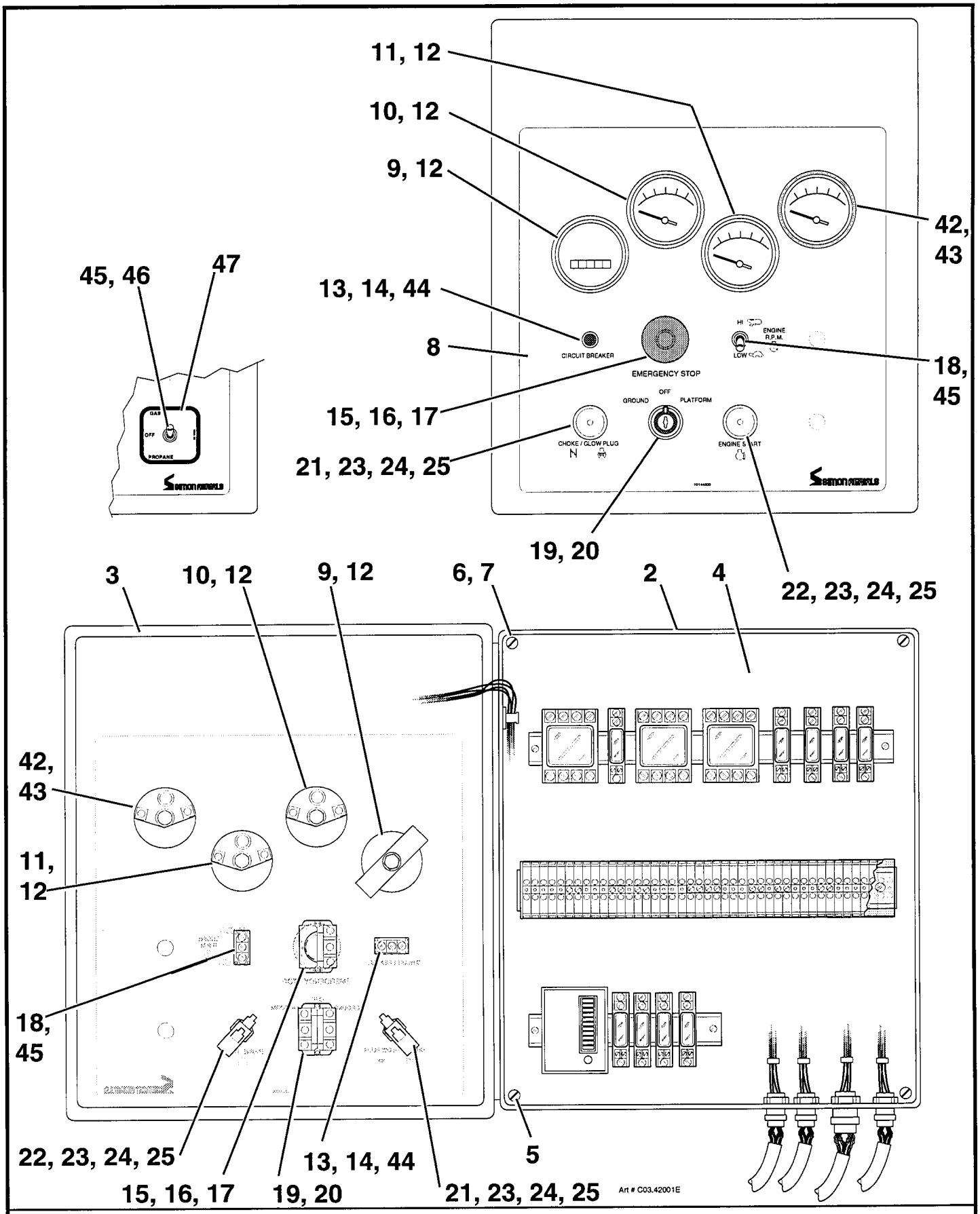


TITLE	DRIVE CARD BOX, MP (ELECTRO-PROPORTIONAL)		
SIMON AERIALS INC.	NEW 10 DEC., 1993	PART NO.	PLATE NO. C03.38

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.



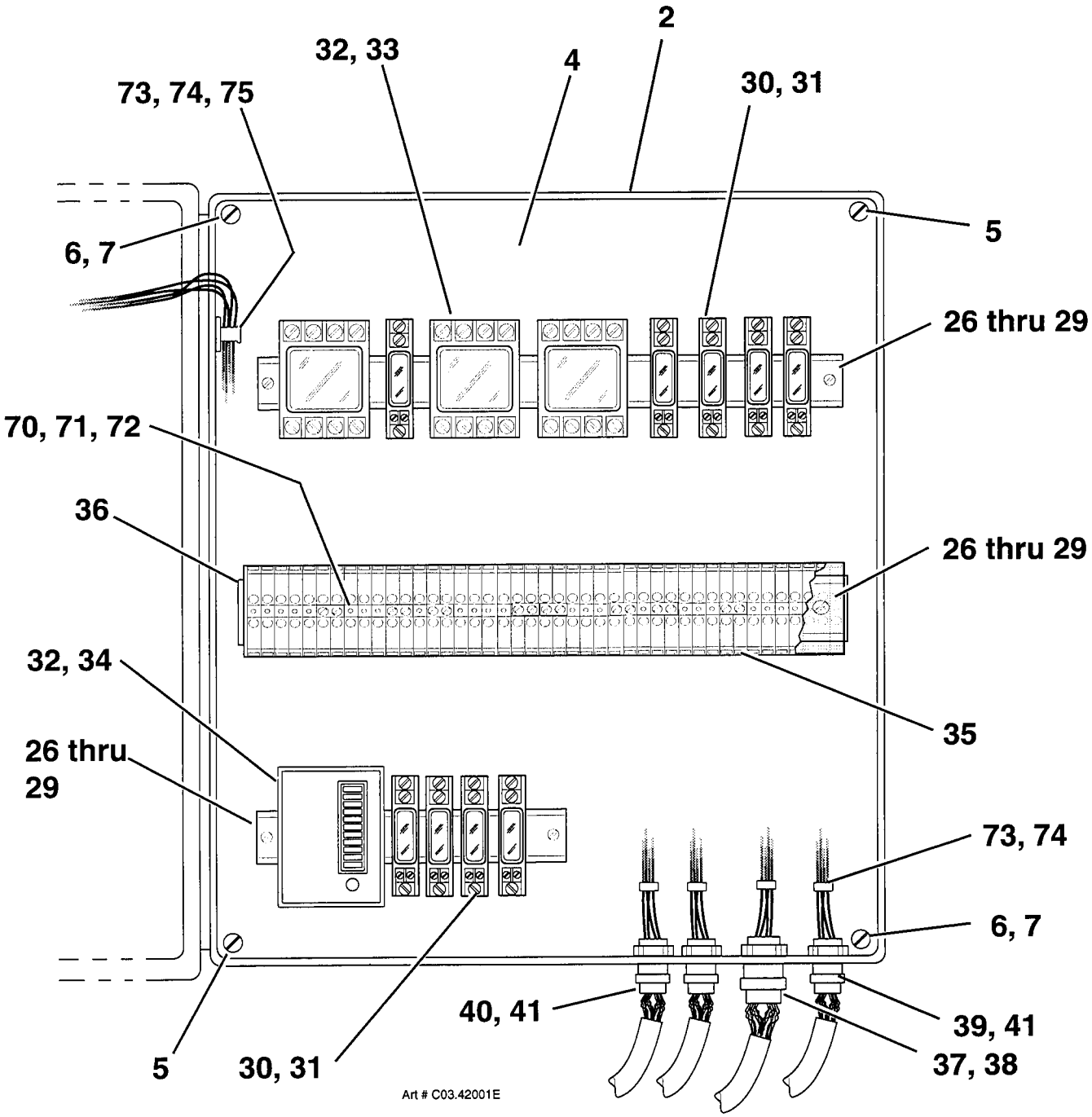
TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 1 OF 3)		
SIMON AERIALS INC.	REV. 09 FEB., 1996	PART NO.	PLATE NO. C03.42

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.

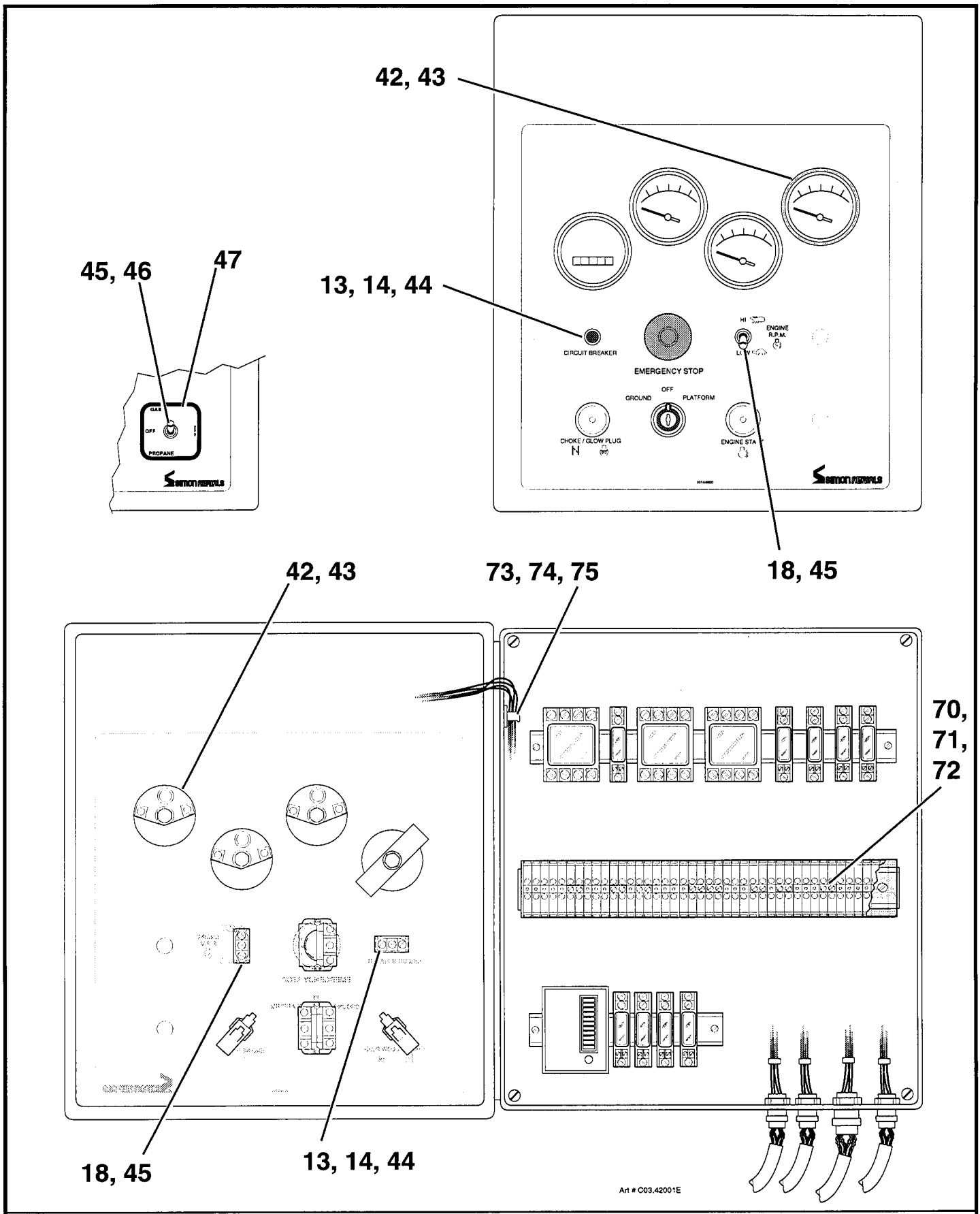


TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 2 OF 3)		
SIMON AERIALS INC. REV. 09 FEB., 1996		PART NO.	PLATE NO. C03.42

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.

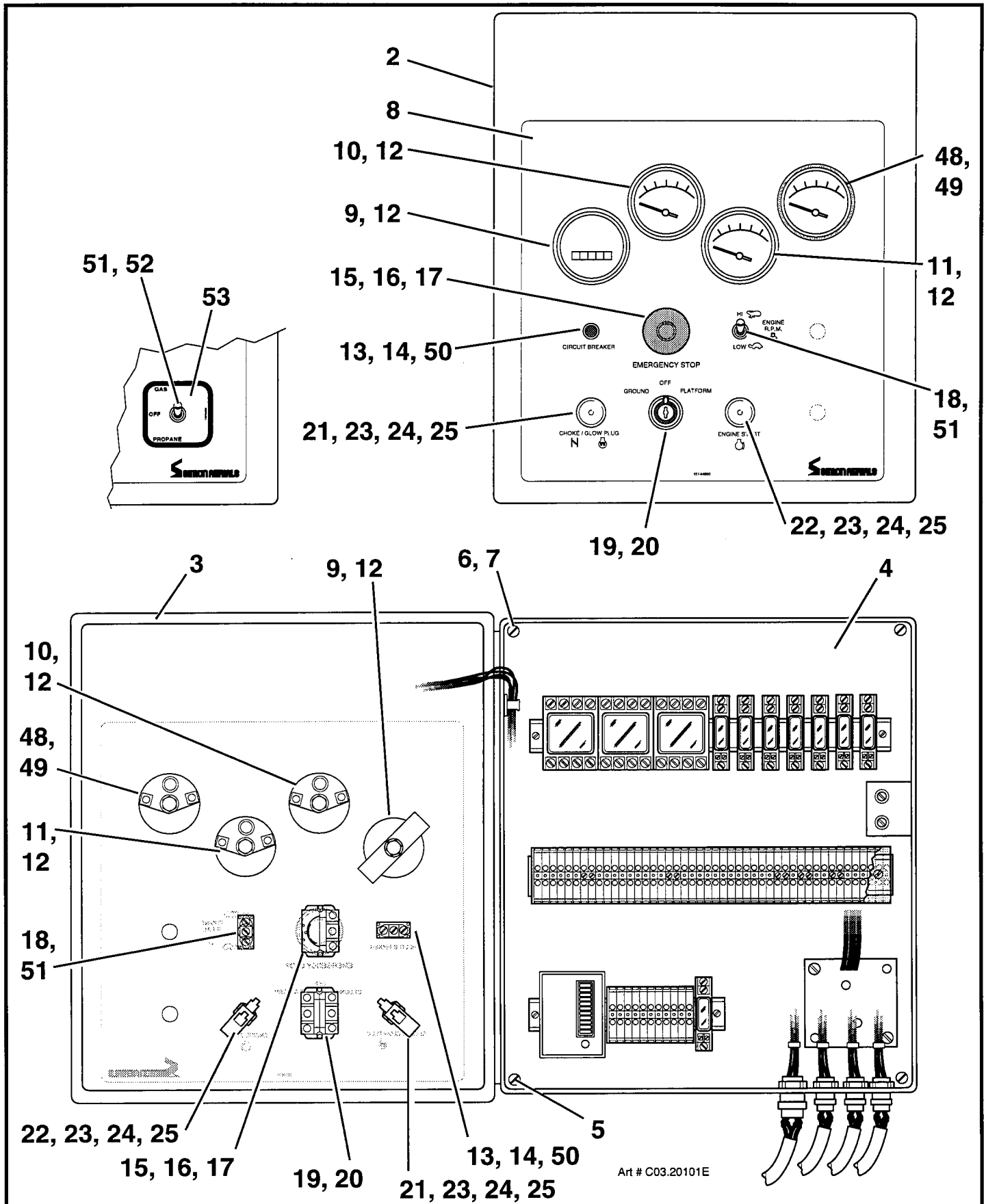


TITLE	GROUND CONTROL BOX ASSEMBLY (PLATE 3 OF 3)		
SIMON AERIALS INC.	REV. 09 FEB., 1996	PART NO.	PLATE NO. C03.42

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)



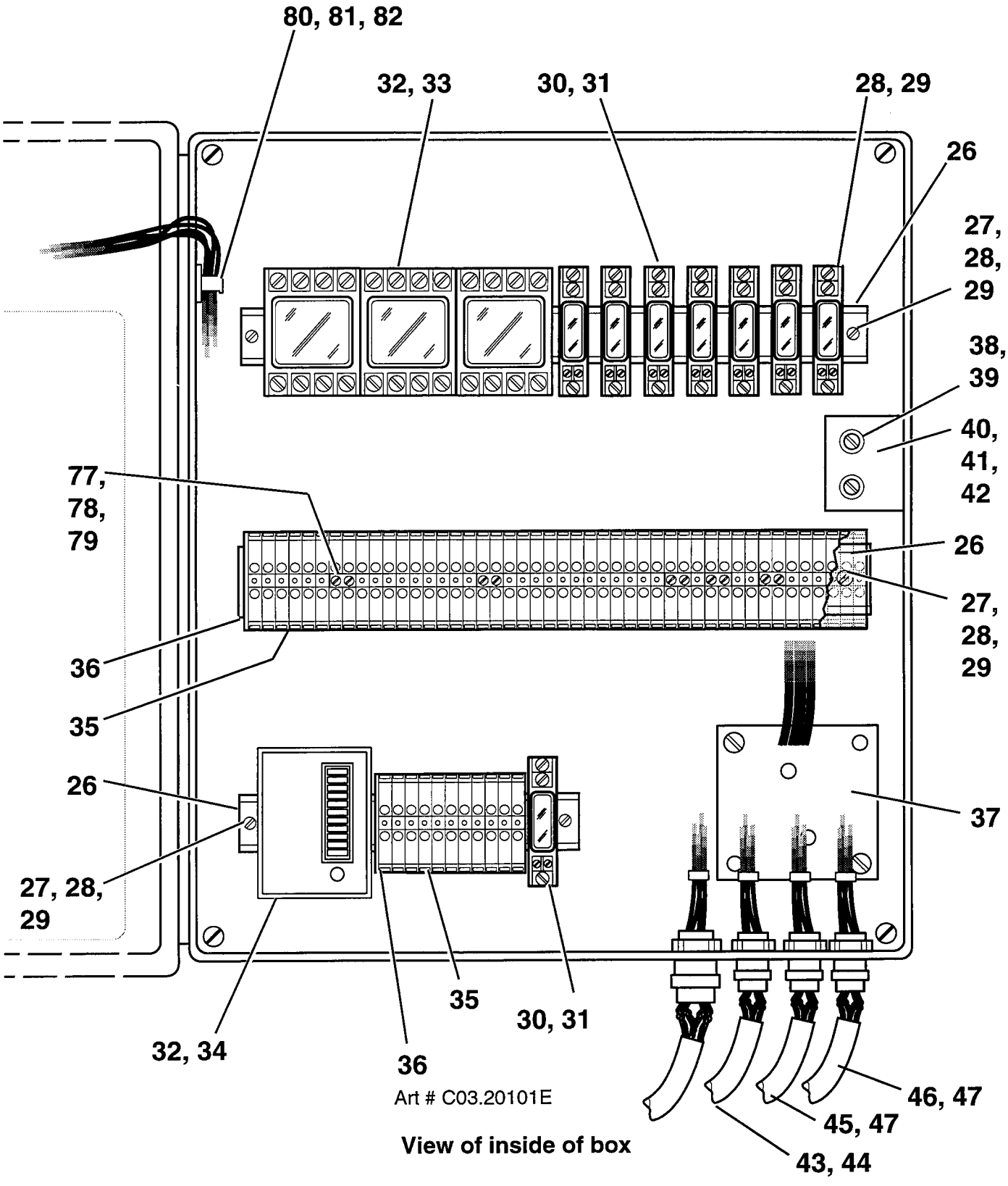
TITLE GROUND CONTROL BOX ASSEMBLY, MP, RP 46, RP 66 (PLATE 1 OF 3)

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

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION
			GROUND CONTROL BOX ASSEMBLY (continue
21	03-402500		SWITCH, PUSH BUTTON (10 Amp, 250 Volt A
			(Choke/ Glow Plug) (comes with Control Box
	03-497900		PLUG, PLASTIC (for versions with Deutz Diese
			(1/2" dia., "Panel Seal", to fill unused toggle s
22	03-402500		SWITCH, PUSH BUTTON (10 A, 250 V AC) (E
23	03-402800		BUTTON, PUSH (Blue) (Choke/ Glow plug) (Er
			(Some earlier versions used Red [03-402700
			[03-402900] push buttons. Order 03-402800.
24	03-402600		SEAL, SWITCH BEZEL
25	10-151000		CAP, VINYL (Black)
26	03-051700		RAIL, TERMINAL (1M [39.37"] long section. C
27	07-011335		MACHINE SCREW, PAN HEAD (#6-32 x 1/2")
28	07-050007		NUT, HEX LOCK (#6-32, Grade 5)
29	07-062009		WASHER, FLAT (#8)
30	03-051600		SOCKET, RELAY (Single pole, snap mount)
31	03-051500		RELAY, PLUG IN (12 Volt DC, single pole)
32	03-037500		SOCKET, RELAY (Double pole, snap mount)
33	03-050100		RELAY, PLUG IN (12 Volt DC, double pole)
34	03-052800		RELAY, TIME DELAY (.1 to 102.3 second, 12
35	03-066200		BLOCK, TERMINAL (25 Amp, for #12 Gauge w
36	03-066100		PLATE, TERMINAL BLOCK END
37	03-481600		MODULE, CONTROL (Marked "MC 3100036
			Controls low speed drive from ground.)
38	03-027231		POTENTIOMETER (10 K Ohm)
39	03-044900		LOCK, SHAFT
40	232 3870		BRACKET, POTENTIOMETER MOUNTING
41	07-090156		CAP SCREW, BUTTON HEAD
			(1/4"-20 x 5/8", Stainless steel)
42	07-065014		WASHER, HELICAL LOCK (1/4")
43	03-063200		GRIP, CORD (3/4", with .69" to .75" seal)
44	03-055600		NUT, CONDUIT (3/4")
45	03-041000		GRIP, CORD (1/2", .with 38" to .44" seal)
46	03-045500		GRIP, CORD (1/2", .with 31" to .38" seal)
47	03-055500		NUT, CONDUIT (1/2")

TITLE GROUND CONTROL BOX ASSEMBLY, MP, RP 46, RP 66 (PLA



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

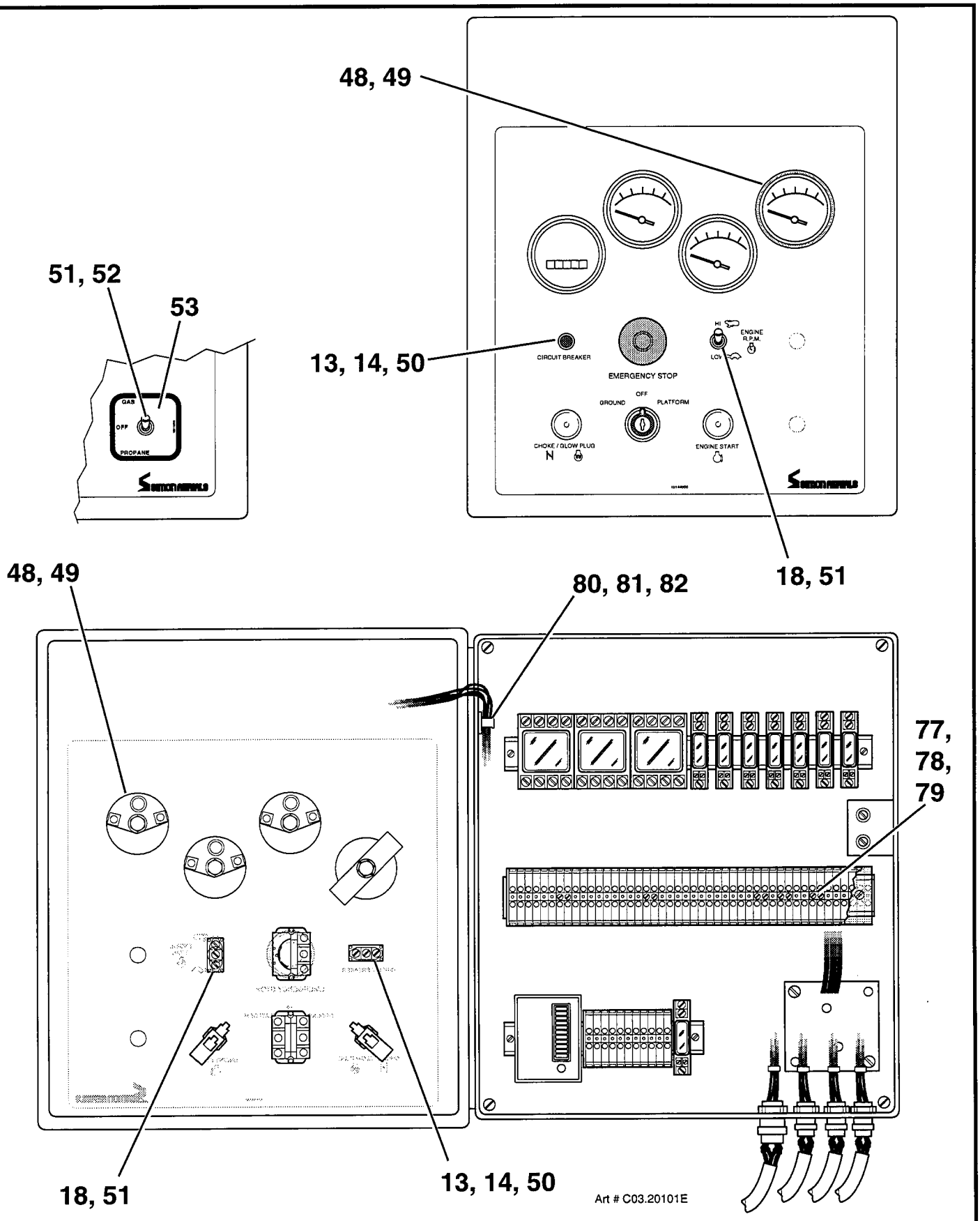
SIMON AERIALS INC.	REV. 09 FEB., 1996	PART NO.	PLATE NO. C03.201

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	



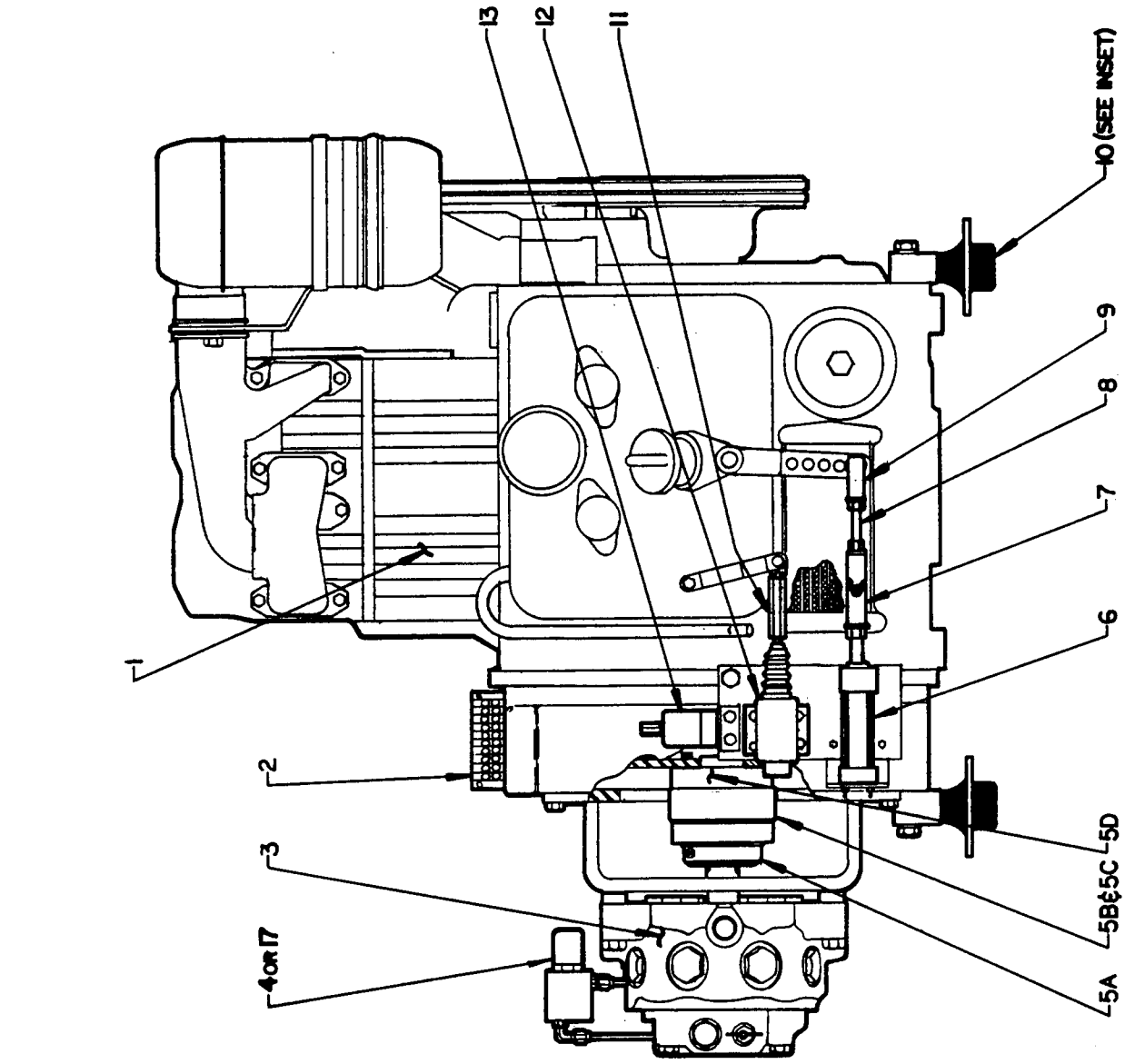
TITLE GROUND CONTROL BOX ASSEMBLY, MP, RP 46, RP 66 (PLATE 3 OF 3)

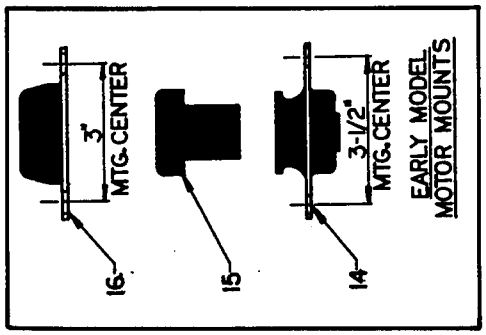
SIMON AERIALS INC.	REV. 09 FEB., 1996	PART NO.	PLATE NO. C03.201

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	09-000400		DIESEL ENGINE (DEUTZ MODEL #F2L912)	1
2	09-000409		TERMINAL BLOCK	1
3	SEE INDEX	D8	HYDRAULIC PUMP	1
4	01-034400		SOLENOID VALVE W/BLOCK (PUMP UNLOADING)	1
5	02-008500		COUPLING (COMPLETE)	1
5A	02-003501		COUPLING HALF (PUMP)	1
5B	02-003504		INSERT RING	1
5C	02-003503		COUPLING INSERT	1
5D	SBD-201759-0		COUPLING HALF (ENGINE)	1
6	09-000406		THROTTLE CYLINDER (SEAL KIT #09-000412)	1
7	09-000416		UNIVERSAL JOINT	1
8	09-000410		STRAIGHT ROD	1
9	09-000411		BALL JOINT, 90^{O}	1
10	09-006500		MOTOR MOUNT (3-3/4" MTG. CENTER)	4
11	09-000415		LONG HEX NUT	1
12	09-000404		SOLENOID, SHUTDOWN (RACK)	1
13	09-000405		SOLENOID VALVE, THROTTLE ADVANCE	1
14	09-006600		MOTOR MOUNT - EARLY MODEL	4
15	09-005800		MOTOR MOUNT - EARLY MODEL	4
16	09-001800		MOTOR MOUNT - EARLY MODEL	4
17	01-007600		SOLENOID VALVE W/O BLOCK	1

DESCRIPTION	PART NO.
DIESEL ENGINE ASSEMBLY	CAA-206226-4





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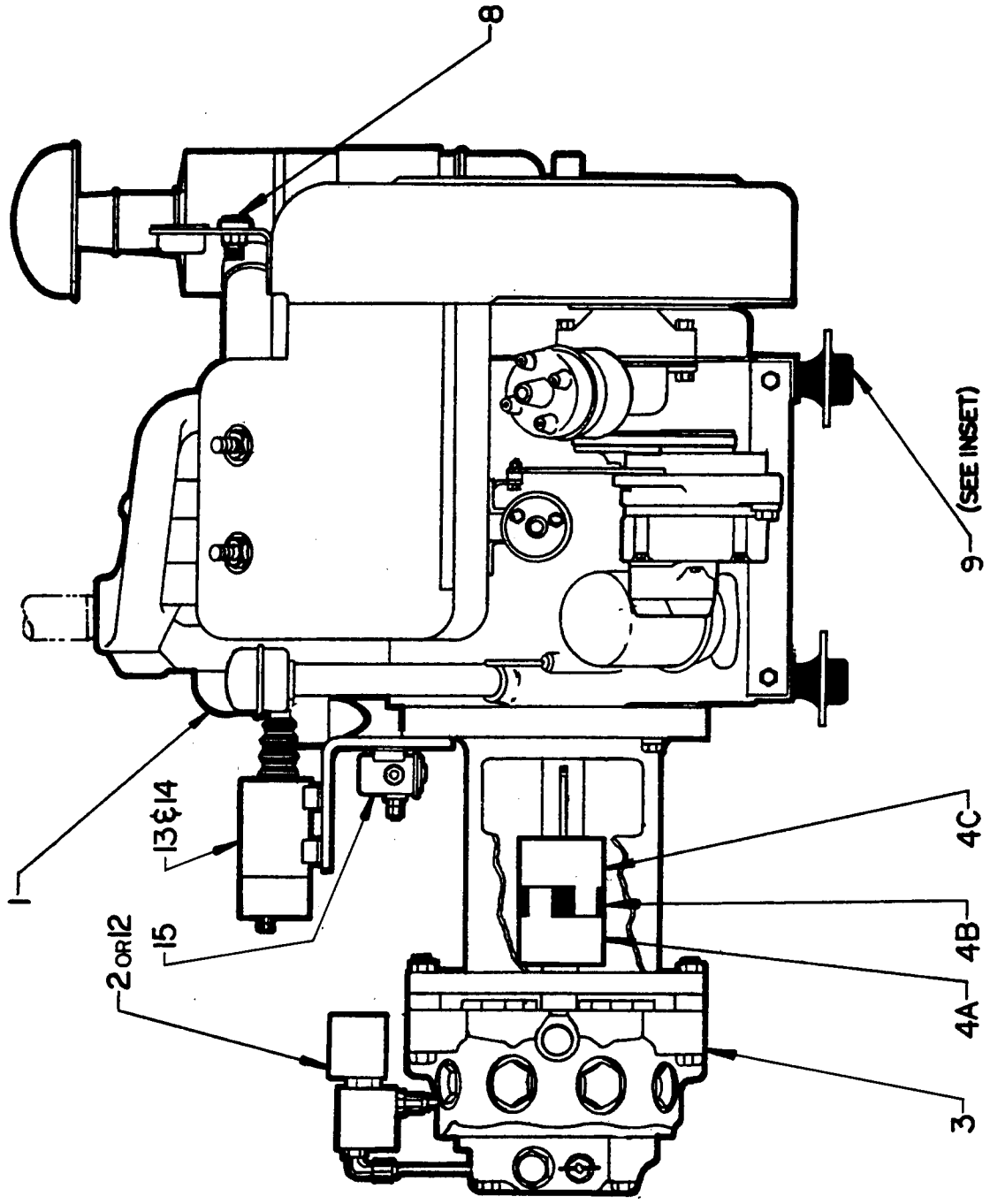
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DIESEL ENGINE ASSEMBLY	CAA-206226-4

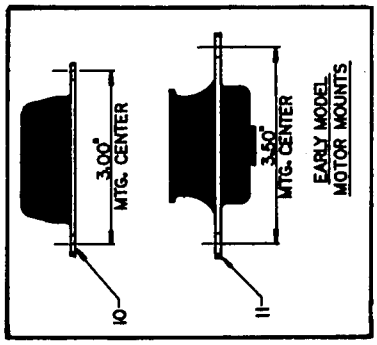
PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	09-006700		GAS ENGINE (WIS. MODEL #W4-1770)	1
2	01-007600		UNLOADING VALVE, N.C. (PARKER, TO 03/85)	1
3	SEE INDEX	D8	HYDRAULIC PUMP	1
4	02-008200		COUPLING (COMPLETE)	1
4A	02-008202		COUPLING HALF (PUMP)	1
4B*	02-008201		COUPLING INSERT	1
4C	02-008203		COUPLING HALF (ENGINE)	1
8	03-021000		KEYSWITCH	1
9	09-006500		MOTOR MOUNT (3-3/4" MTG. CENTER)	4
10	09-001800		MOTOR MOUNT - EARLY MODEL	4
11	09-006600		MOTOR MOUNT - EARLY MODEL	4
12	01-013700		UNLOADING VALVE, N.O. (FROM 03/85)	1
13	09-000401		SOLENOID, THROTTLE (TO 10/85)	1
13	09-000404		SOLENOID, THROTTLE (FROM 10/85)	1
14	03-050600		THROTTLE CLEVIS (NOT SHOWN)	1
15	03-051300		RELAY, THROTTLE & STARTER	2
16			*COUPLING INSERT (OLD STYLE, BROWNING - TO 04/85)	

NOTE:
OLD STYLE (BROWNING) COUPLING COMPONENTS HAVE BEEN DISCONTINUED (EXCEPT INSERT, ITEM - 16). ORDER #02-008200 COUPLING FOR COMPLETE REPLACEMENT.

DESCRIPTION	PART NO.
GAS ENGINE ASSEMBLY - 35 H.P.	CAA-206258-3





0884

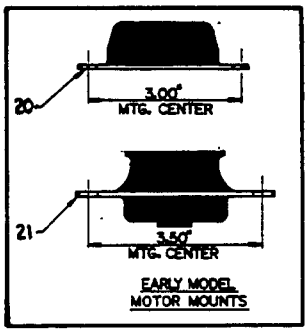
DESCRIPTION	PART NO.
GAS ENGINE ASSEMBLY - 35 H.P.	CAA-206258-3

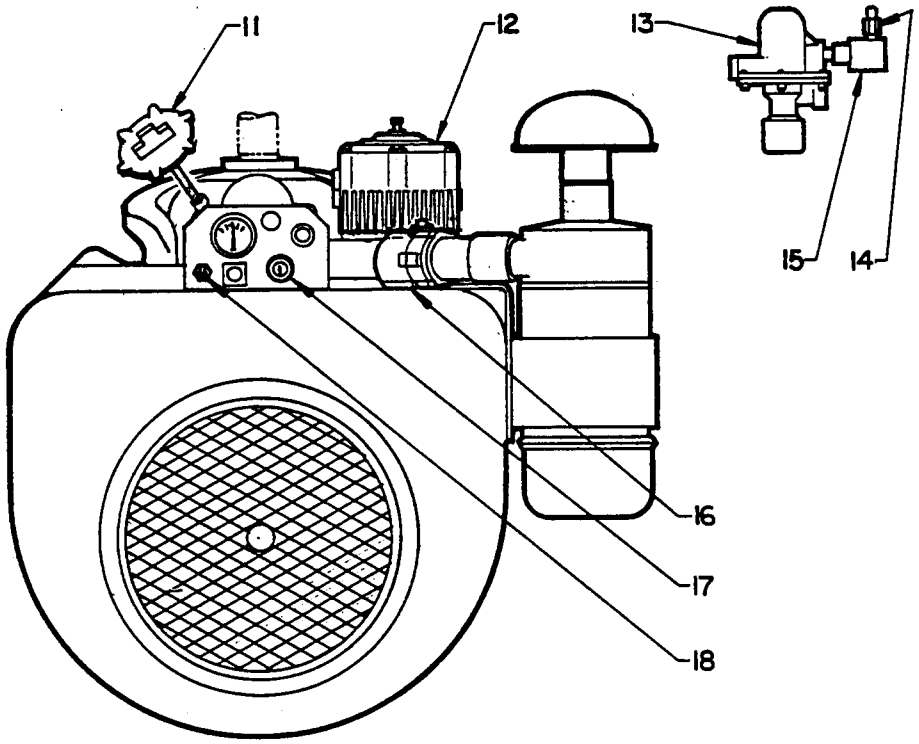
PARTS LIST

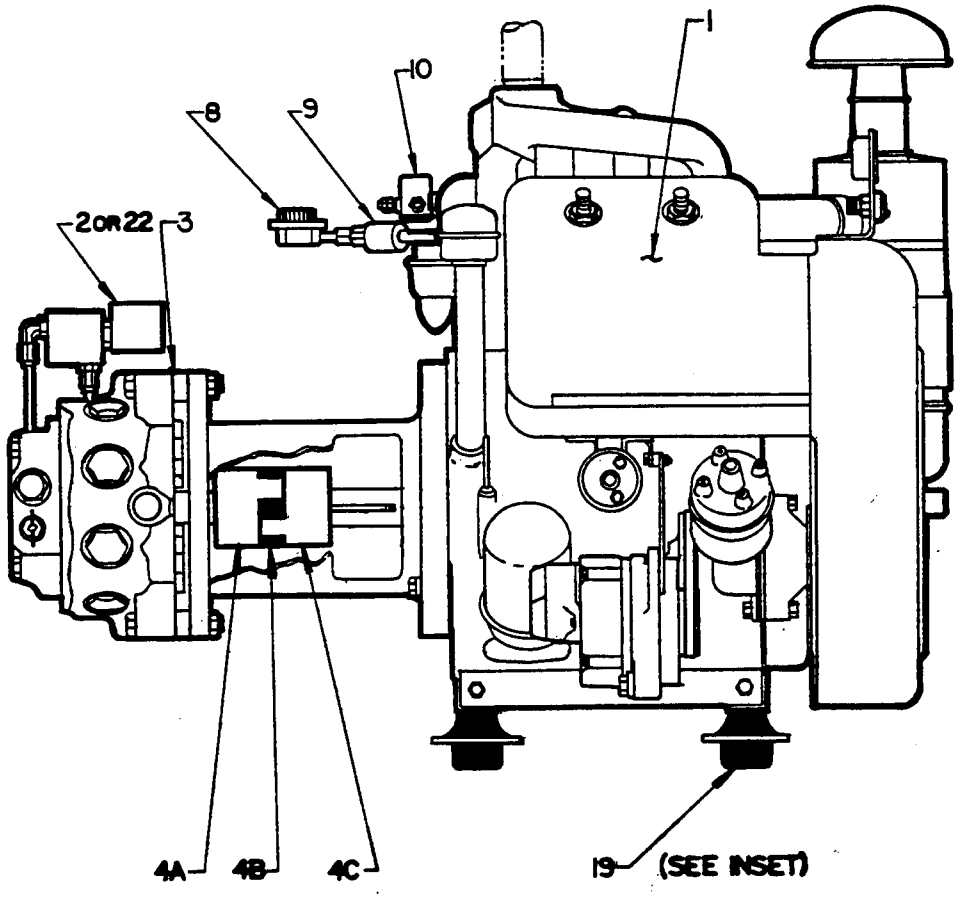
ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	09-006700		ENGINE (WIS. MODEL #W4-1770)	1
2	01-007600		UNLOADING VALVE, N.C. (PARKER, TO 03/85)	1
3	SEE INDEX	D8	HYDRAULIC PUMP	1
4	02-008200		COUPLING (COMPLETE)	1
4A			COUPLING HALF (PUMP)	1
4B*	02-008201		COUPLING INSERT	1
4C			COUPLING HALF (ENGINE)	1
8	09-012300		FUEL PRESSURE REGULATOR	1
9	09-017100		GAS SHUTOFF VALVE	1
10	03-051300		RELAY, STARTER	1
11	09-015800		PROPANE VACUUM SAFETY SWITCH	1
12	09-017200		CONVERTER (VAPORIZER)	1
13	09-004400		PROPANE SAFETY SHUTOFF VALVE	1
14	09-002000		PROPANE RELIEF VALVE	1
15	09-001900		TEE ADAPTER BLOCK	1
16	09-017600		PROPANE CARBURETOR	1
17	03-021000		KEYSWITCH	1
18	03-020200		TOGGLESWITCH, GAS/LPG	1
19	09-006500		MOTOR MOUNT (3-3/4" MTG. CENTER)	4
20	09-001800		MOTOR MOUNT - EARLY MOTOR	4
21	09-006600		MOTOR MOUNT - EARLY MOTOR	4
22	01-013700		UNLOADING VALVE, N.O. (FROM 03/85)	1
23	02-002000		*COUPLING INSERT (OLD STYLE, BROWNING - TO 04/85)	

NOTE:
OLD STYLE (BROWNING) COUPLING COMPONENTS HAVE BEEN DISCONTINUED (EXCEPT INSERT, ITEM- 23). ORDER #02-008200 COUPLING FOR COMPLETE REPLACEMENT.

DESCRIPTION	PART NO.
DUAL FUEL ENGINE ASSEMBLY-35 H.P.	CAA-207228-1







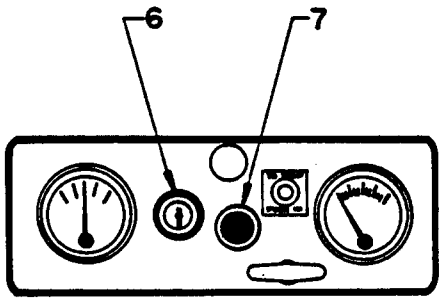
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DESCRIPTION	PART NO.
DUAL FUEL ENGINE ASSEMBLY-35 H.P.	CAA-207228-1

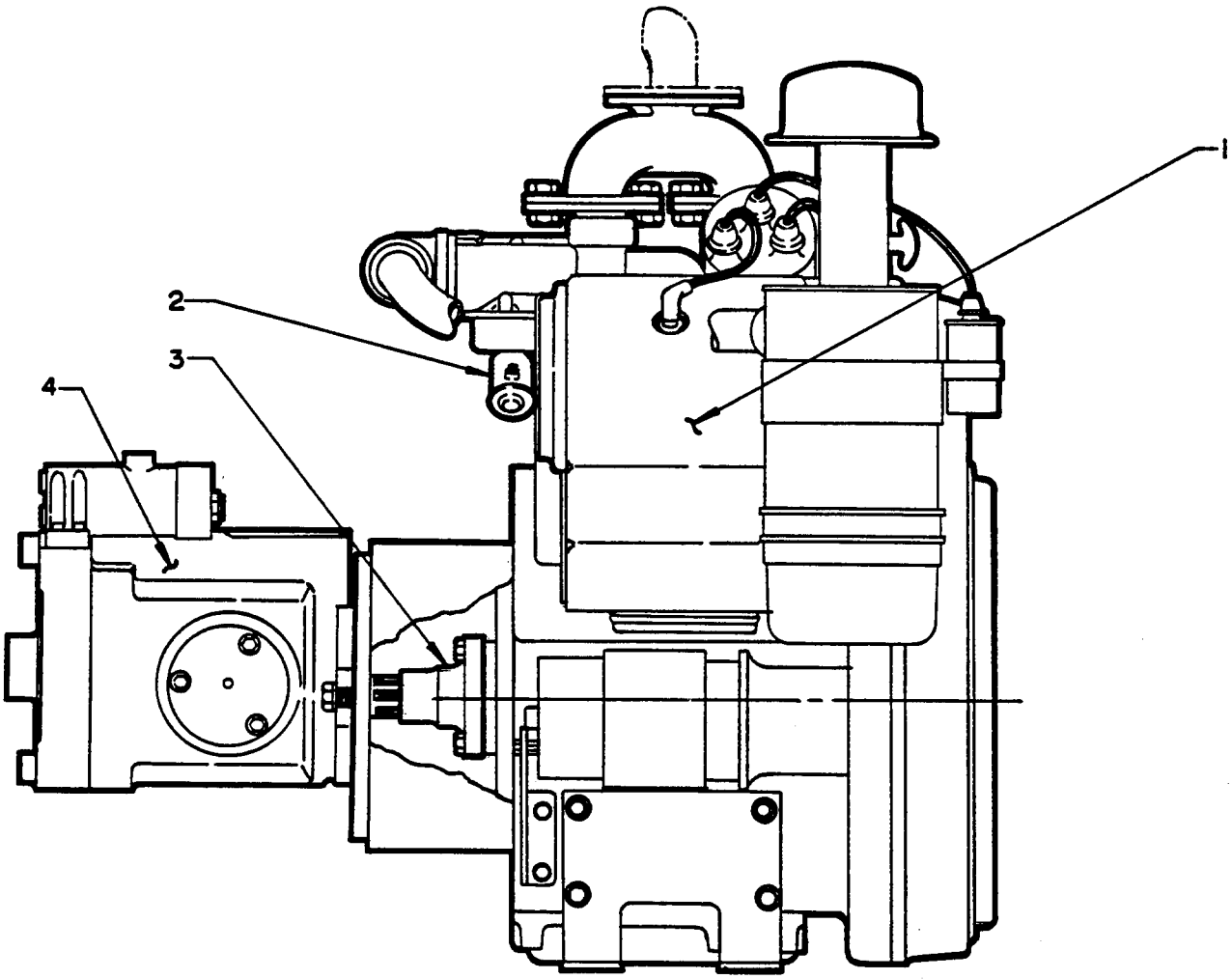
PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	09-016900		ENGINE	1
2	03-051300		RELAY, STARTER	1
3	09-018500		COUPLING	1
4	SEE INDEX	D8	HYDRAULIC PUMP	1
6	03-021000		KEYSWITCH	1
7	03-020300		PUSHBUTTON, ENGINE START	1
8	09-016901		ELECTRIC FUEL PUMP*	1
9	09-016902		FUEL FILTER*	1
			*NOT SHOWN	

DESCRIPTION	PART NO.
GAS ENGINE ASSEMBLY	CAA-207244-9



VIEW OF DASH PANEL



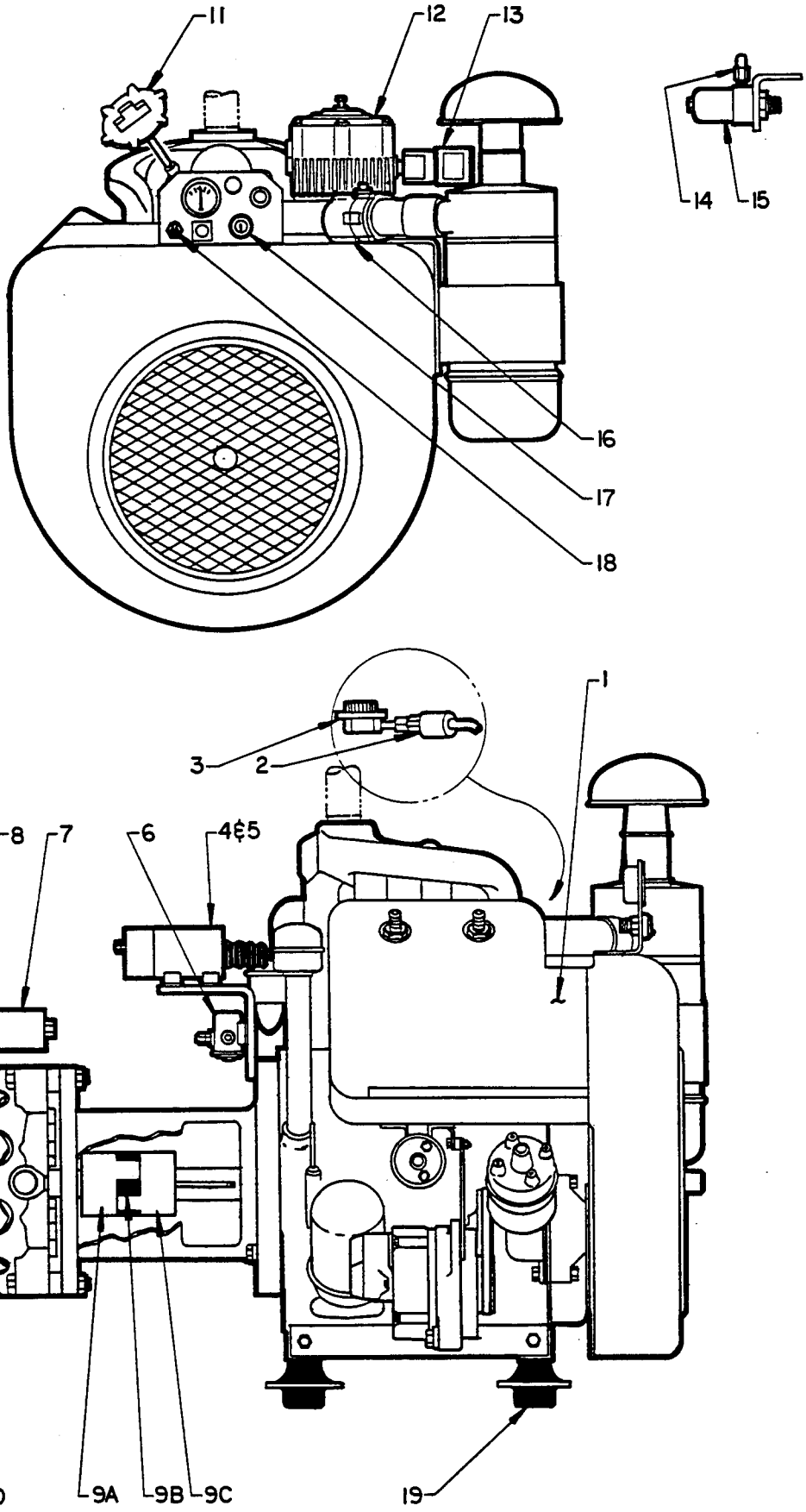
1084/1084

DESCRIPTION	PART NO.
GAS ENGINE ASSEMBLY	CAA-207244-9

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	09-006700		ENGINE (WIS. MODEL #W4-1770)	1
2	09-017100		GAS SHUTOFF VALVE	1
3	09-012300		FUEL PRESSURE REGULATOR	1
4	09-000401		SOLENOID, THROTTLE (TO 10/85)	1
4	09-000404		SOLENOID, THROTTLE (FROM 10/85)	1
5	03-050600		THROTTLE CLEVIS (NOT SHOWN)	1
6	03-051300		RELAY, THROTTLE & STARTER	2
7	01-013700		PUMP UNLOADING VALVE, N.O.	1
8	01-013900		CARTRIGE VALVE BLOCK	1
9	02-008200		COUPLING (COMPLETE)	1
9A			COUPLING HALF (PUMP)	1
9B	02-008201		COUPLING INSERT	1
9C			COUPLING HALF (ENGINE)	1
10	SEE INDEX	D8	HYDRAULIC PUMP	1
11	09-015800		PROPANE VACUUM SAFETY SWITCH	1
12	09-017200		CONVERTER (VAPORIZER)	1
13			PROPANE SHUTOFF VALVE	1
14	09-002000		PROPANE RELIEF VALVE	1
15	09-004400		PROPANE SAFETY SHUTOFF VALVE	1
16	09-017600		PROPANE CARBURETOR	1
17	03-021000		KEYSWITCH	1
18	03-020200		TOGGLESWITCH, GAS/LPG	1
19	09-005600		MOTOR MOUNT	4

DESCRIPTION	PART NO.
DUAL FUEL ENGINE ASSEMBLY - 35 H.P.	CAA-208500-3



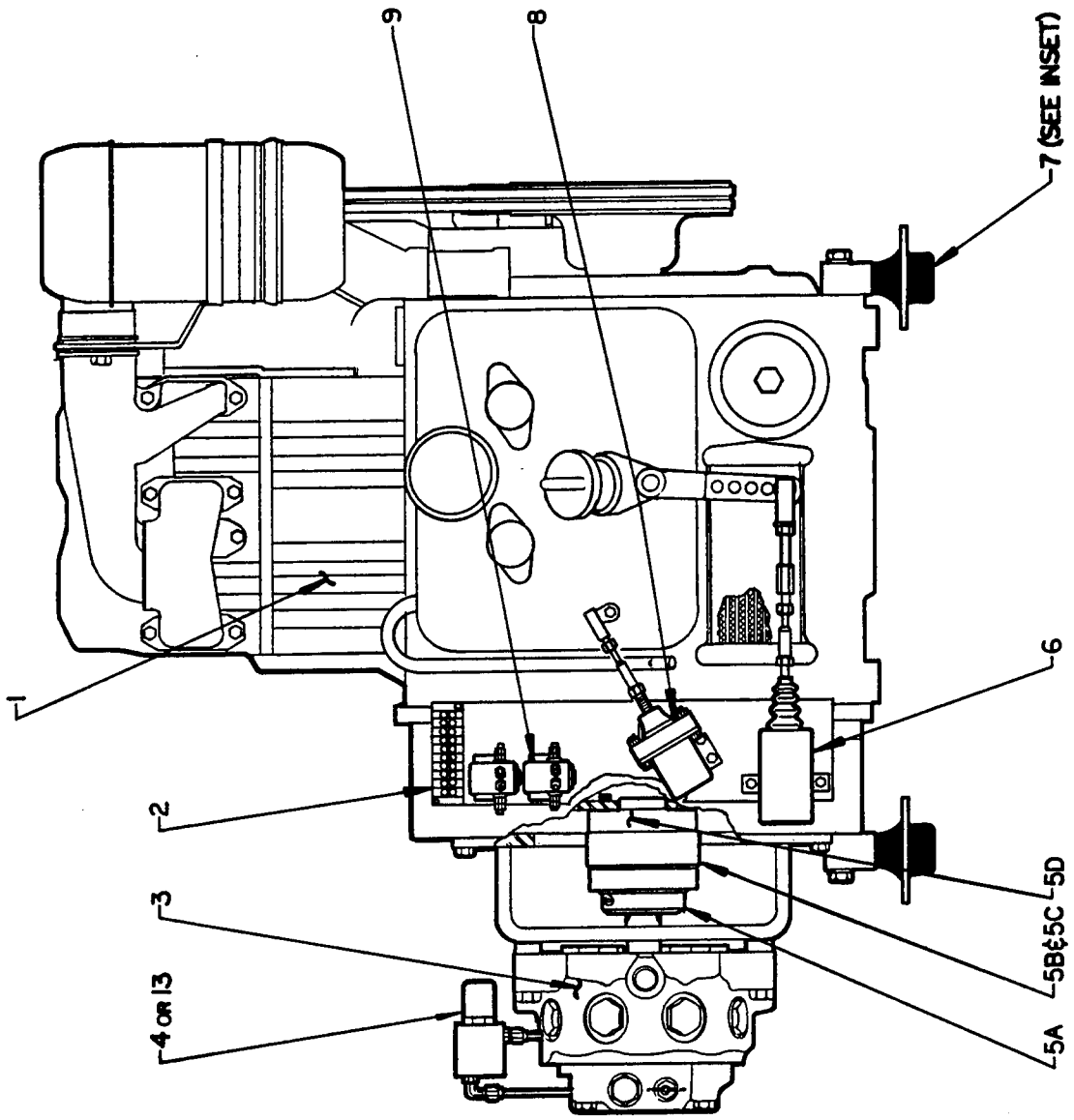
0885/0885

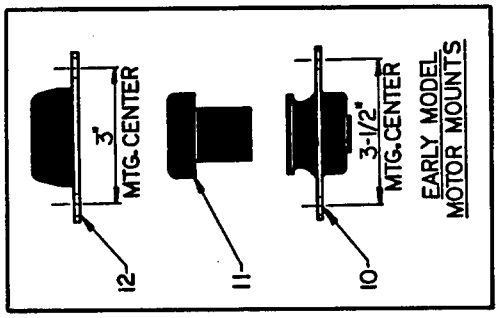
DESCRIPTION	PART NO.
DUAL FUEL ENGINE ASSEMBLY - 35H.P.	CAA-208500-3

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	09-000400		DIESEL ENGINE (DUETZ MODEL NO.F2L912)	1
2	09-000409		TERMINAL BLOCK	1
3	SEE INDEX	D8	HYDRAULIC PUMP	1
4	01-034400		SOLENOID VALVE, PUMP UNLOADING	1
5	01-008500		COUPLING (COMPLETE)	1
5A	02-003501		COUPLING HALF (PUMP)	1
5B	02-003504		INSERT RING	1
5C	02-003503		COUPLING INSERT	1
5D	SBD-201759-0		COUPLING HALF (ENGINE)	1
6	09-000401		SOLENOID, THROTTLE ADVANCE	1
7	09-006500		MOTOR MOUNT (3-3/4 MTG. CENTER)	4
8	09-000402		SOLENOID, SHUTDOWN (RACK)	1
9	03-051300		RELAY, RACK & THROTTLE SOLENOID	2
10	09-006600		MOTOR MOUNT - EARLY MODEL	4
11	09-005800		MOTOR MOUNT - EARLY MODEL	4
12	09-001800		MOTOR MOUNT - EARLY MODEL	4
13	01-007600		SOLENOID VALVE W/O BLOCK	1

DESCRIPTION	PART NO.
DIESEL ENGINE ASSEMBLY-EARLY MODEL	CAA-207246-9





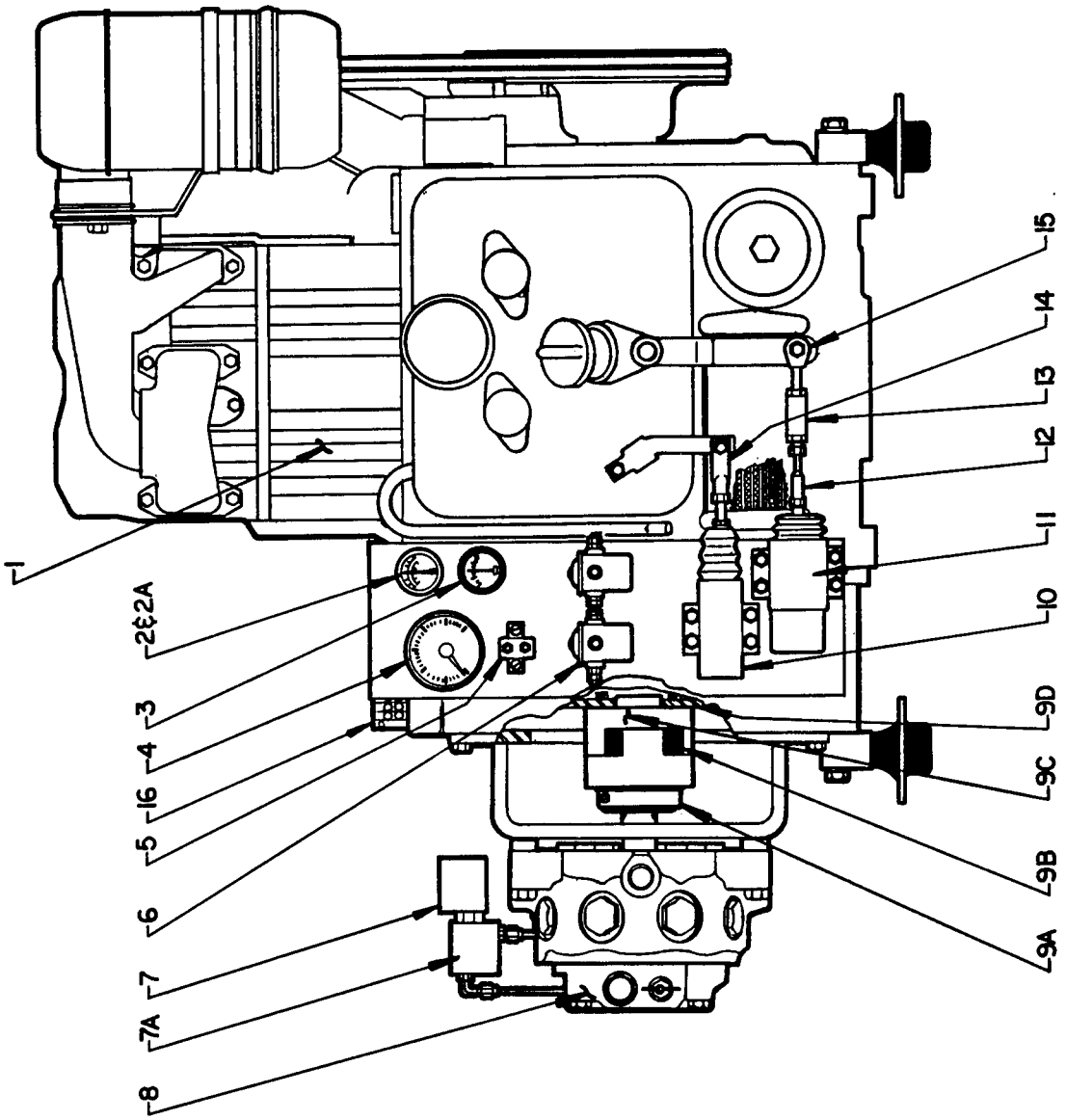
1184/0677

DESCRIPTION	PART NO.
DIESEL ENGINE ASSEMBLY-EARLY MODEL	CAA-207246-9

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	09-018000		DIESEL ENGINE (DEUTZ MODEL #F2L912)	1
2	10-034200		OIL PRESSURE GAUGE	1
2A	09-012700		OIL PRESSURE SWITCH (NOT SHOWN)	1
3	03-030400		AMMETER	1
4	09-000407		TACHOMETER	1
5	03-024800		CIRCUIT BREAKER, 30 AMP	1
6	03-051300		RELAY, RACK & THROTTLE SOLENOID	2
7	01-013700		SOLENOID VALVE, PUMP UNLOADING	1
7A	01-013900		SOLENOID VALVE BLOCK	1
8	SEE INDEX	D8	HYDRAULIC PUMP	1
9	02-008500		COUPLING (COMPLETE)	1
9A	02-008501		COUPLING BODY (PUMP HALF)	1
9B	02-008502		SPIDER INSERT	1
9C	02-008503		FLANGE BODY (ENGINE HALF)	1
9D	02-008504		FLYWHEEL FLANGE	1
10	03-053000		RACK SOLENOID	1
11	03-053100		THROTTLE SOLENOID	1
12	09-016402		STRAIGHT BALL JOINT	1
13	205603-6		COUPLING LINK	1
14	08-014800		CLEVIS	1
15	08-014500		ROD END	1
16	03-068000		TERMINAL BLOCK	1

DESCRIPTION	PART NO.
DIESEL ENGINE ASSEMBLY	CAA-207264-9



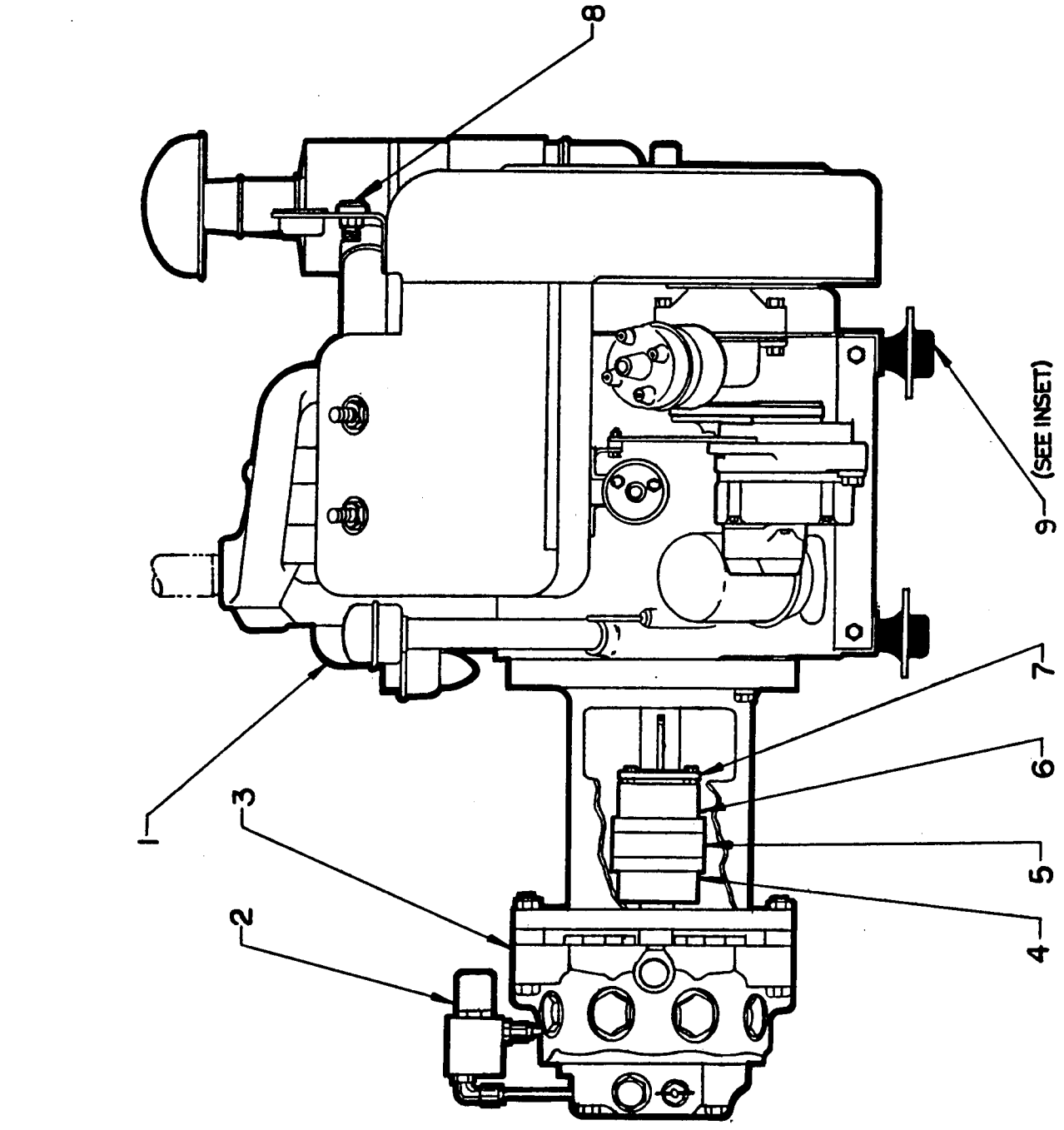
0285/1184

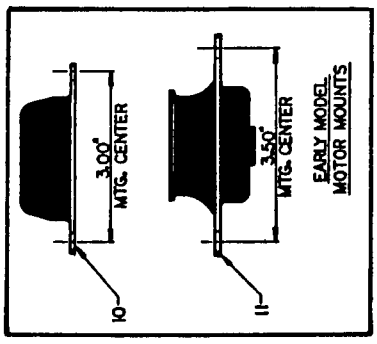
DESCRIPTION	PART NO.
DIESEL ENGINE ASSEMBLY	CAA-207264-9

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	09-002300		GAS ENGINE, 37 H.P. (WIS. MODEL#VG4D)	1
2	01-034400		SOLENOID VALVE, PUMP UNLOADING	1
3	SEE INDEX	D8	HYDRAULIC PUMP	1
4	SCW-202004-8		COUPLING HALF (PUMP)	1
5	02-002000		COUPLING INSERT	1
6	02-003400		COUPLING HALF (ENGINE	1
7	08-006900		BUSHING	1
8	03-021000		KEYSWITCH	1
9	09-006500		MOTOR MOUNT (3-3/4" MTG. CENTER)	4
10	09-001800		MOTOR MOUNT - EARLY MODEL	4
11	09-006600		MOTOR MOUNT - EARLY MODEL	4

DESCRIPTION	PART NO.
GAS ENGINE ASSEMBLY - 37 H.P.	CAA-208464-2





0385

DESCRIPTION	PART NO.
GAS ENGINE ASSEMBLY - 37 H.P.	CAA-208464-2

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

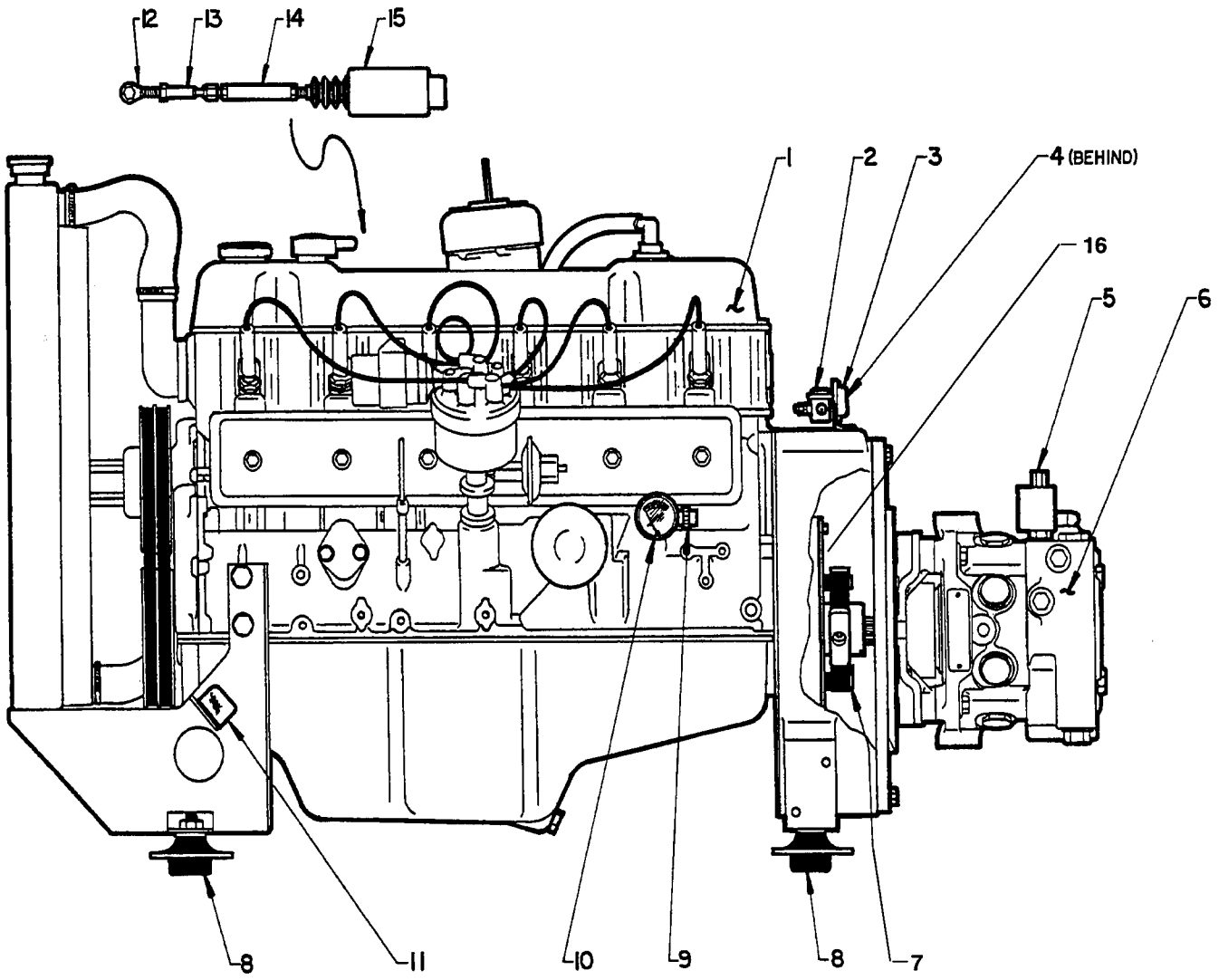
TITLE	GAS ENGINE ASSEMBLY - 65 H.P.			
PLATE NO.	C04.17	SIMON AERIALS INC.	REV. 01/16/91	PART NO. 208485-1

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	09-020700		ENGINE (Ford 6 cylinder 300CID, Model CSG)	1
2	03-022100		RELAY, STARTER	1
3			REGULATOR, VOLTAGE	1
4	03-068000		STRIP, TERMINAL	1
5	01-013700		VALVE, SOLENOID (pump unloading)	1
6	SEE INDEX	D08	PUMP, HYDRAULIC	1
7	02-012600		COUPLING, PUMP (complete)	1
8	09-006500		MOUNT, MOTOR	4
9	09-012700		SWITCH, OIL PRESSURE	1
10	10-034200		GAUGE, OIL PRESSURE	1
11	03-046300		SWITCH, OVERSPEED	1
12	08-014500		END, TIE ROD	1
13	09-016402		BALL JOINT, STRAIGHT	1
14			COUPLER, THREADED	1
15	09-000404		SOLENOID, THROTTLE ADVANCE	1
16	02-012900		PLATE, CLUTCH	1

TITLE: WATER-COOLED GAS ENGINE ASSEMBLY

PLATE NO. C04.18 | **SIMON AERIALS INC.** REV. 09/07/90 | PART NO. 2097938



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			ENGINE, DIESEL (Deutz Model F2L912)	1
2	SEE INDEX	D08	PUMP, HYDRAULIC	1
3	01-013700		VALVE, SOLENOID (pump unloading)	1
3A	01-013900		BLOCK, SOLENOID VALVE	1
4	02-008500		COUPLING (complete)	1
4A	02-008501		BODY, COUPLING (pump half)	1
4B	02-008502		INSERT, SPIDER	1
4C	02-008503		BODY, FLANGE (engine half)	1
4D	02-008504		FLANGE, FLYWHEEL	1
5	09-000404		SOLENOID (throttle and rack)	2
6			NUT, LONG HEX	1
7	09-020201		NUT, LONG HEX	1
8	09-000411		BALL JOINT, 90°	1
9	03-024800		CIRCUIT BREAKER, 30 A	1
10	03-051300		RELAY (throttle and rack solenoid)	2
11	03-068000		STRIP, TERMINAL	1
12	03-030400		AMMETER	1
13	09-000407		TACHOMETER	1
14	10-034200		GAUGE, OIL PRESSURE	1
15	09-012700		SWITCH, OIL PRESSURE (supplied with engine)	1
16	04-000404		SOLENOID, THROTTLE (to 10/88)	1
	03-053100		SOLENOID, THROTTLE	1

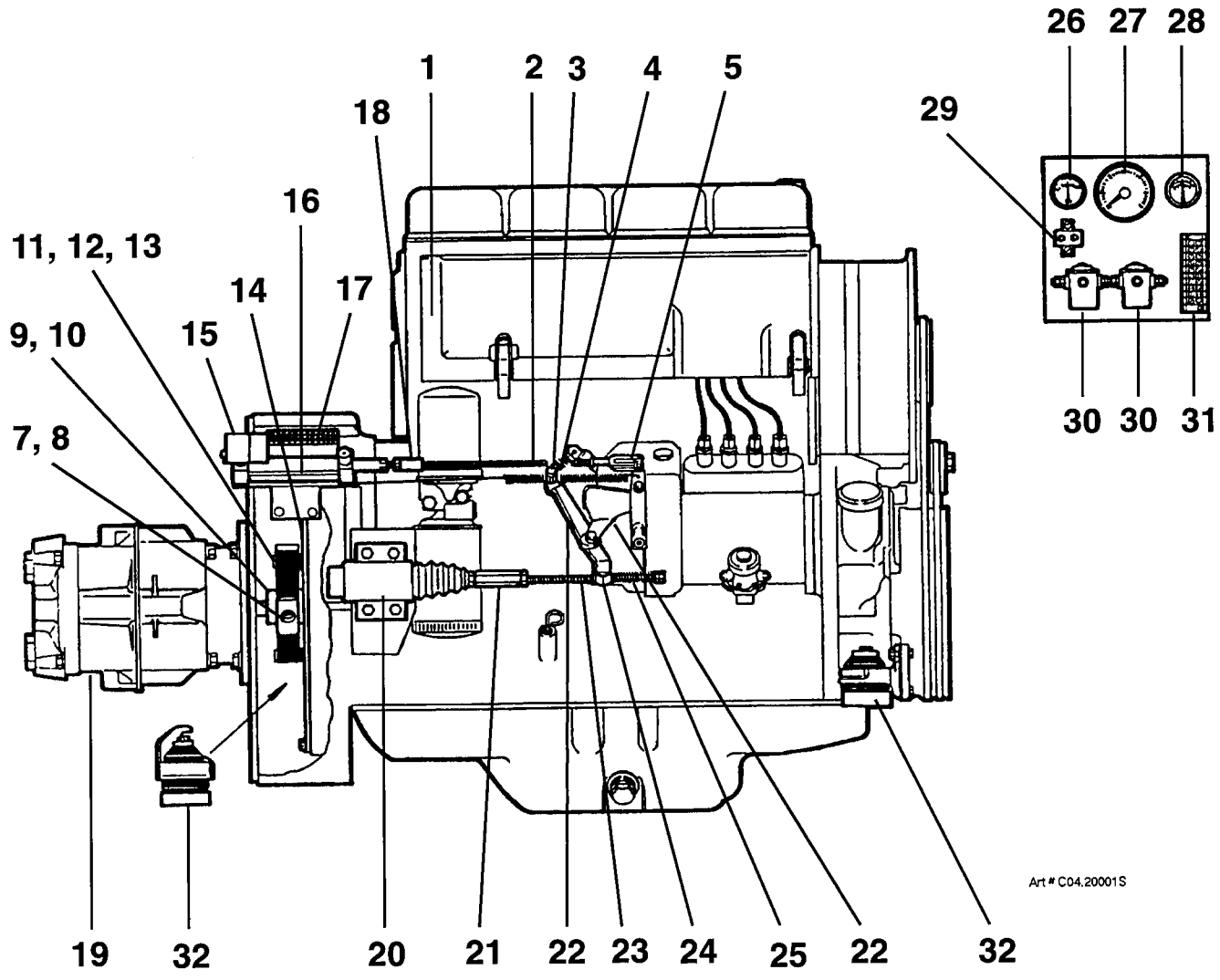
TITLE DIESEL ENGINE ASSEMBLY

PLATE NO. C04.19 | **SIMON AERIALS INC.** REV. 09/12/90 | PART NO. 2097996

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	



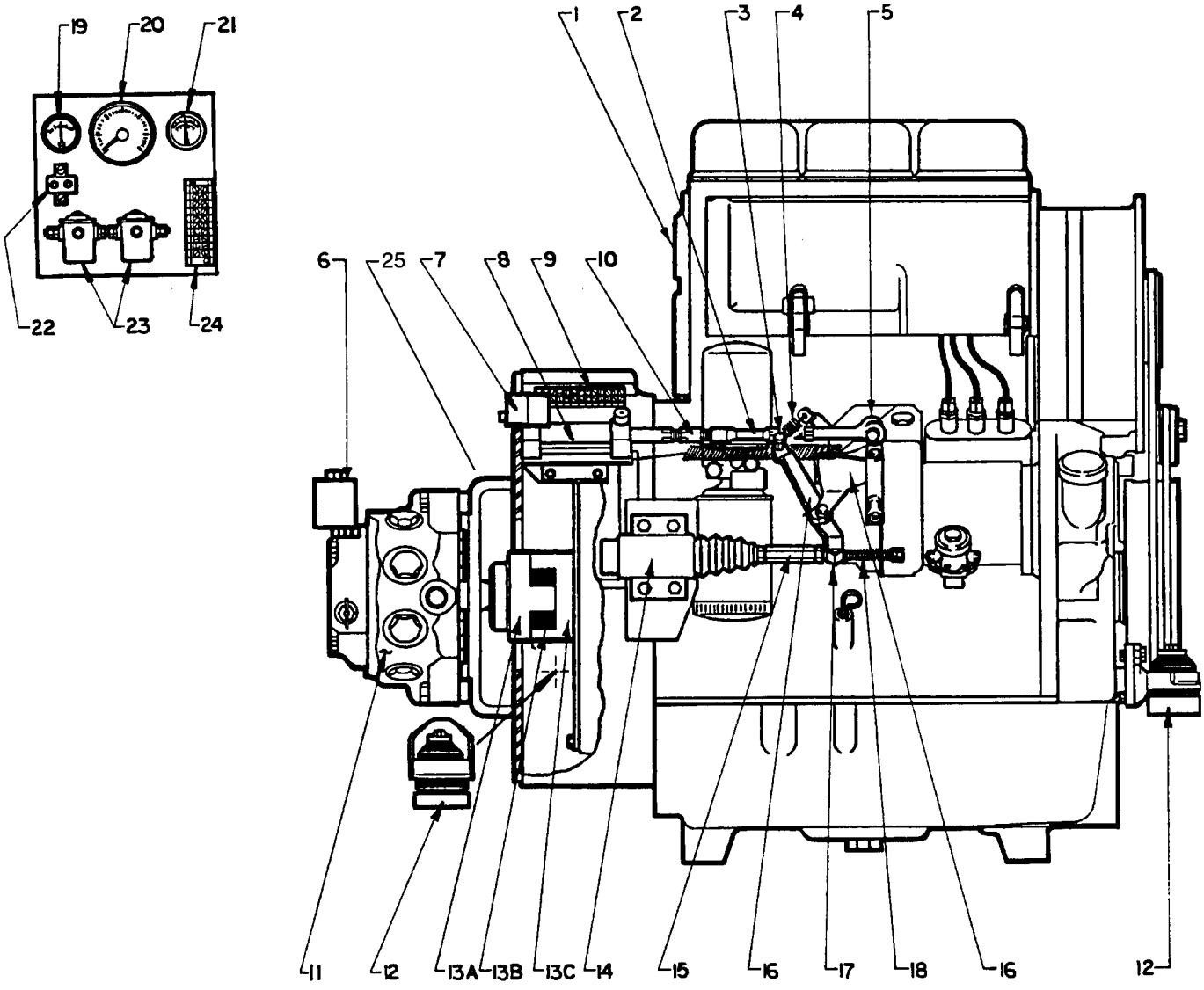
TITLE	DIESEL ENGINE ASSEMBLY, DEUTZ F4L912		
SIMON AERIALS INC.	REV. 24 SEP., 1993	PART NO. 2098090	PLATE NO. C04.20

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

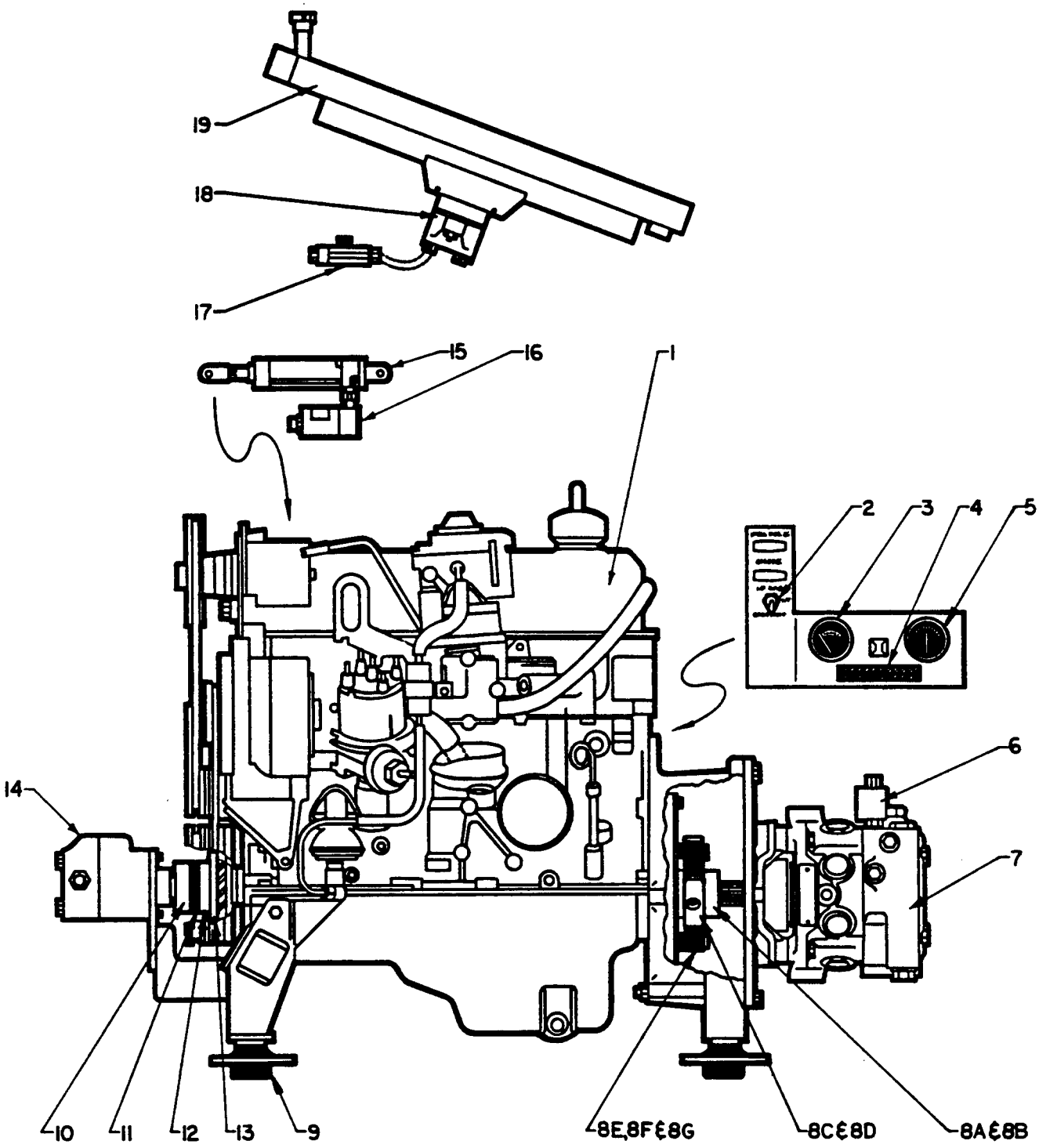


TITLE	DIESEL ENGINE ASSEMBLY		
SIMON AERIALS INC.	REV. 09/12/90	PART NO. 2098102	PLATE NO. C04.21

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	01-017800		GAS ENGINE (FORD MODEL #LSG 423)	1
2	03-020200		TOGGLE SWITCH, GAS LPG	1
3	10-034200		OIL PRESSURE GAUGE	1
4	03-068000		TERMINAL BLOCK	1
5	03-030400		AMMETER	1
6	01-013700		SOLENOID VALVE, PUMP UNLOADING	1
7	SEE INDEX	D8	HYDRAULIC PUMP	1
8	02-011400		PUMP COUPLING, COMPLETE	1
8A			CYLINDRICAL HUB	1
8B			SPLINE LOCK SCREW, CYLINDRICAL HUB	2
8C			RADIAL INSERT	3
8D			SHOULDER SCREW, RADIAL INSERT	3
8E			HYTREL INSERT	1
8F			SHOULDER SCREW, HYTREL INSERT	3
8G			AXAIL DRIVE PIN, HYTREL INSERT	3
9	09-006500		MOTOR MOUNT	4
10	SBD-2103640		COUPLING HALF, PUMP	1
11	02-011800		INSERT	1
12	SBD-2103630		COUPLING HALF, ENGINE	1
13	SBD-2103620		CRANKSHAFT ADAPTER PLATE	1
14	01-064000		HYDRAULIC PUMP, FAN	1
15	09-000406		THROTTLE CYLINDER	1
16	09-000405		SOLENOID VALVE, THROTTLE CYLINDER	1
17	01-012300		NEEDLE VALVE, PRESSURE COMPENSATED	1
18	01-062200		HYDRAULIC MOTOR, FAN	1
19			RADIATOR (FORD)	1

DESCRIPTION	PART NO.
WATER COOLED GAS ENGINE ASSEMBLY	3510188



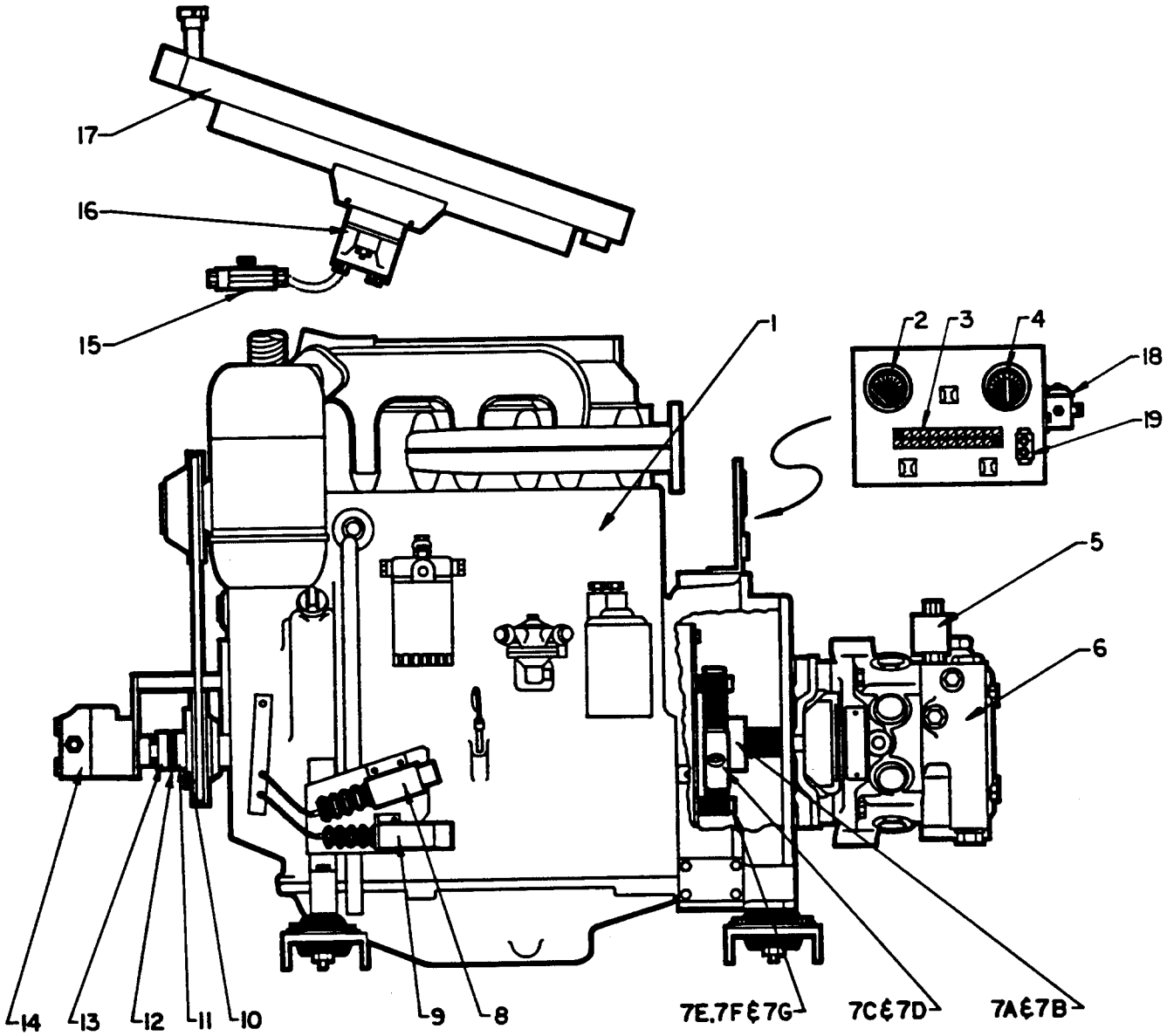
0286/0186

DESCRIPTION	PART NO.
WATER COOLED GAS ENGINE ASSEMBLY	3510188

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	09-024000		DIESEL ENGINE (MWM MODEL #202-3)	1
2	10-034200		OIL PRESSURE GAUGE	1
3	03-068000		TERMINAL STRIP	1
4	03-030400		AMMETER	1
5	01-013700		SOLENOID VALVE, PUMP UNLOADING	1
6	SEE INDEX	D8	HYDRAULIC PUMP	1
7			PUMP COUPLING, COMPLETE	1
7A			CYLINDRICAL HUB	1
7B			SPLINE LOCK SCREW, CYLINDRICAL HUB	2
7C			RADIAL INSERT	3
7D			SHOULDER SCREW, RADIAL INSERT	3
7E			HYTREL INSERT	1
7F			SHOULDER SCREW, HYTREL INSERT	3
7G			AXIAL DRIVE PIN, HYTREL INSERT	3
8	09-000404		SOLENOID, THROTTLE	1
9	09-024001		SOLENOID, RACK	1
10			CRANKSHAFT ADAPTER PLATE	1
11	SBD-2103630		COUPLING HALF, ENGINE	1
12	02-011800		INSERT	1
13	SBD-2103640		COUPLING HALF, PUMP	1
14	01-064000		HYDRAULIC PUMP, FAN	1
15	01-012300		NEEDLE VALVE, PRESSURE COMPENSATED	1
16	01-062200		HYDRAULIC MOTOR, FAN	1
17			RADIATOR (FORD)	1
18	03-051300		RELAY	1
19	03-024100		CIRCUIT BREAKER, 10 AMP	1
	09-024002		STARTER (NOT SHOWN)	1

DESCRIPTION	PART NO.
WATER COOLED DIESEL ENGINE ASSEMBLY	



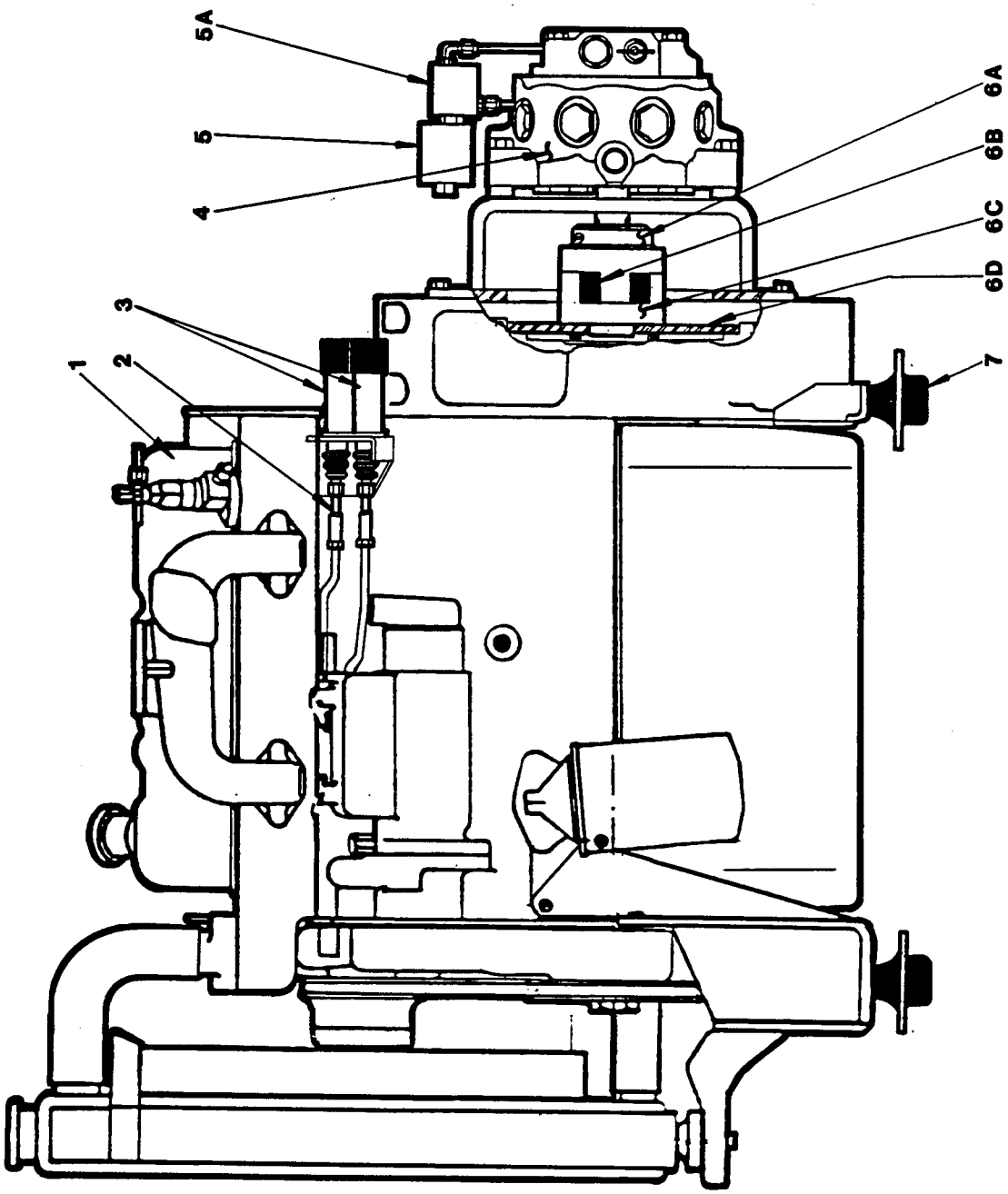
0286/0286

DESCRIPTION	PART NO.
WATER COOLED DIESEL ENGINE ASSEMBLY	

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	D8	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	

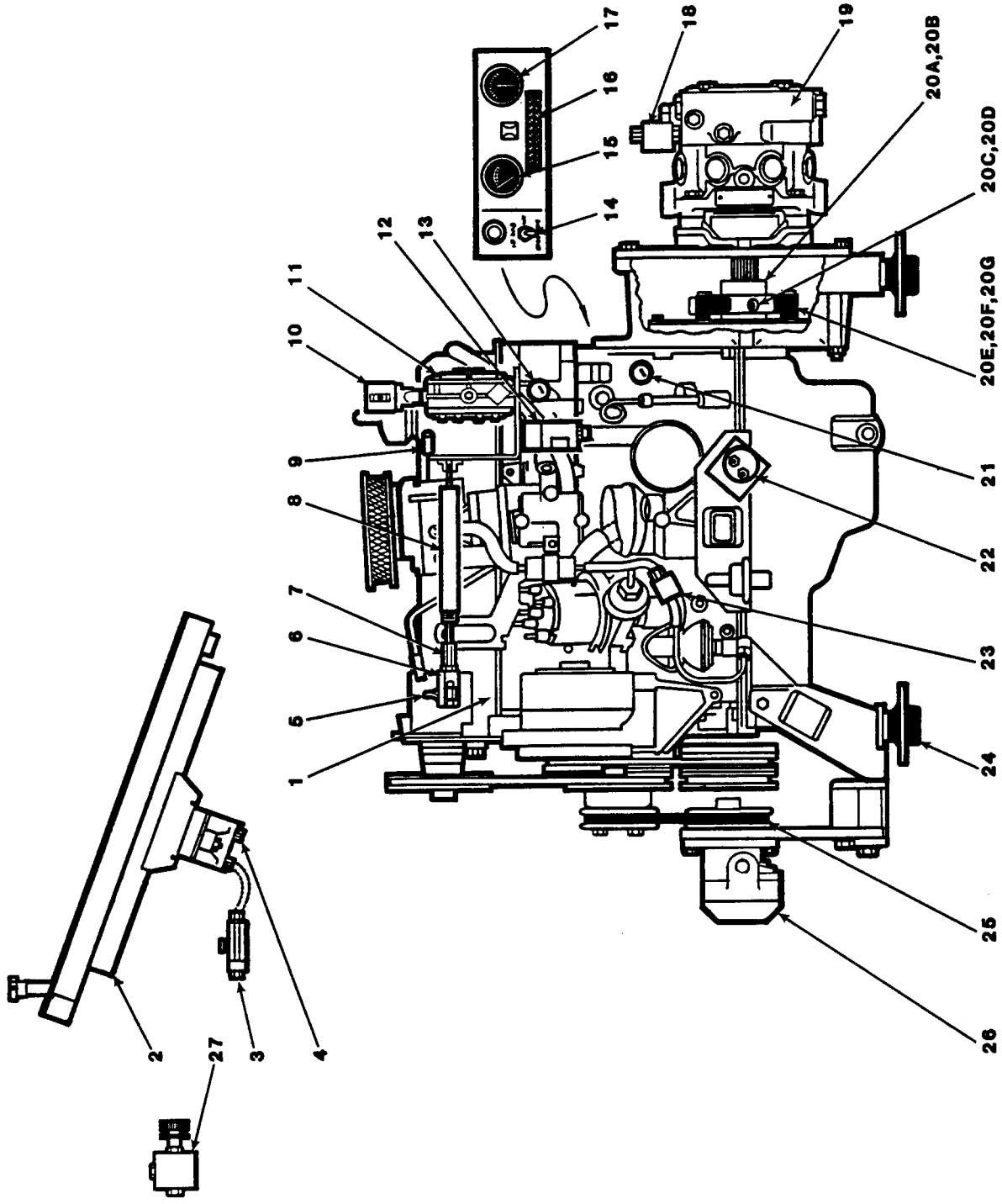


DESCRIPTION	PART NO.
DIESEL ENGINE ASSEMBLY	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	09-023700		LPG ENGINE, 4CYL. (FORD 2.3L MODEL #423P-423)	1
2	09-025300		RADIATOR	1
3	01-012300		PRESSURE COMPENSATED NEEDLE VALVE	1
4	01-062200		FAN MOTOR, HYDRAULIC	1
5	SBD-211237-0		THROTTLE LINK	1
6	09-028101		CLEVIS	1
7	11-040008		COUPLING, 5/16" NC	1
8	09-028100		THROTTLE CYLINDER, DOUBLE STROKING	1
9	03-414400		CHOKE SOLENOID	1
10			SOLENOID VALVE, PROPANE SHUTOFF	1
11			PROPANE CONVERTER (VAPORIZER)	1
12	09-000405		SOLENOID VALVE, THROTTLE ADVANCE	2
13	03-024300		WATER TEMPERATURE SWITCH	1
14	03-020200		TOGGLE SWITCH, GAS/LPG	1
15	10-034200		OIL PRESSURE GAUGE	1
16	03-068000		TERMINAL STRIP	1
17	03-030400		AMMETER	1
18	01-013700		SOLENOID VALVE, PUMP UNLOADING	1
19	SEE INDEX	D8	HYDRAULIC PUMP, MAIN	1
20	02-011400		PUMP COUPLING, COMPLETE	1
20A			CYLINDRICAL HUB	1
20B			SPLINE LOCK SCREW, CYLINDRICAL HUB	2
20C			RADIAL INSERT	3
20D			SHOULDER SCREW, RADIAL INSERT	3
20E			HYTREL INSERT	1
20F			SHOULDER SCREW, HYTREL INSERT	3
20G			AXIAL DRIVE PIN, HYTREL INSERT	3
21	09-024400		OIL PRESSURE SWITCH	1
22			RELAY, STARTER (SUPPLIED W/ENGINE)	1
23	09-017100		FUEL SHUTOFF VALVE	1
24	09-006500		MOTOR MOUNT	4
25	10-070600		V-BELT	1
26	01-072200		HYDRAULIC PUMP, FAN	1
27	01-011400		CARTRIDGE RELIEF VALVE	1

DESCRIPTION	PART NO.
WATER COOLED GAS ENGINE ASSEMBLY	



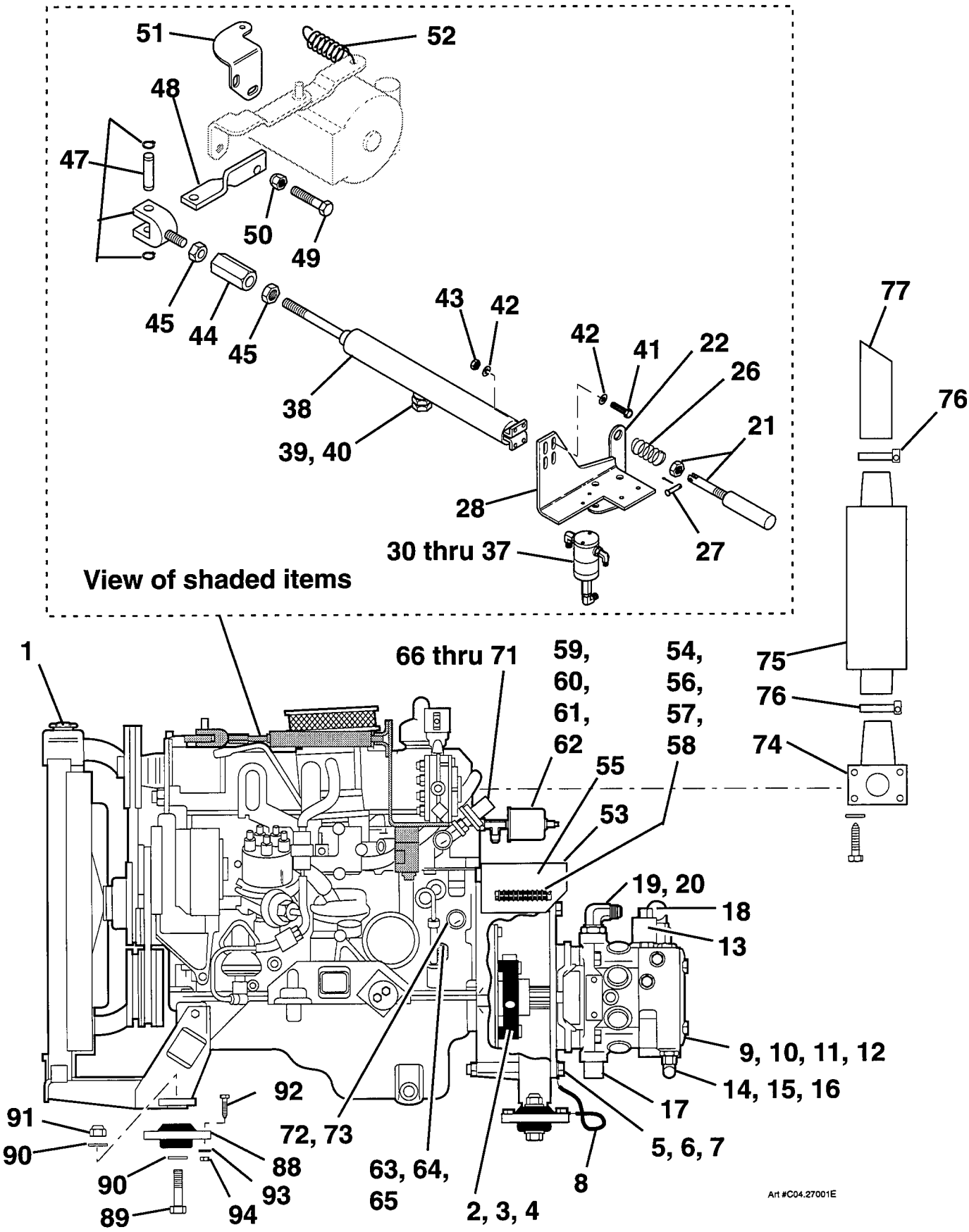
DESCRIPTION	PART NO.
WATER COOLED GAS ENGINE ASSEMBLY	

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.

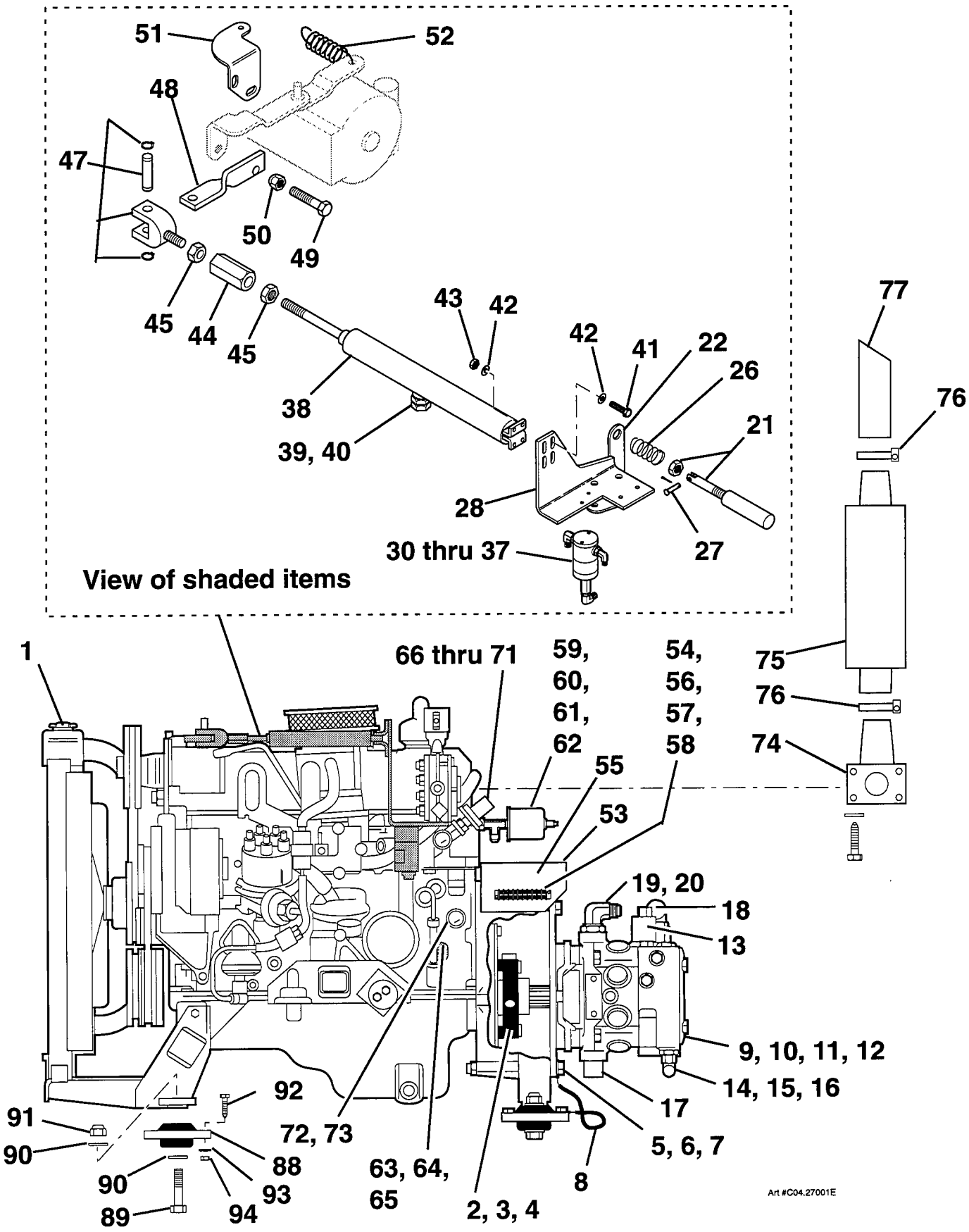


TITLE	ENGINE ASSEMBLY, FORD LSG-423 (PLATE 1 OF 3)		
SIMON AERIALS INC.	NEW 04 AUG., 1994	PART NO.	PLATE NO. C04.27

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.



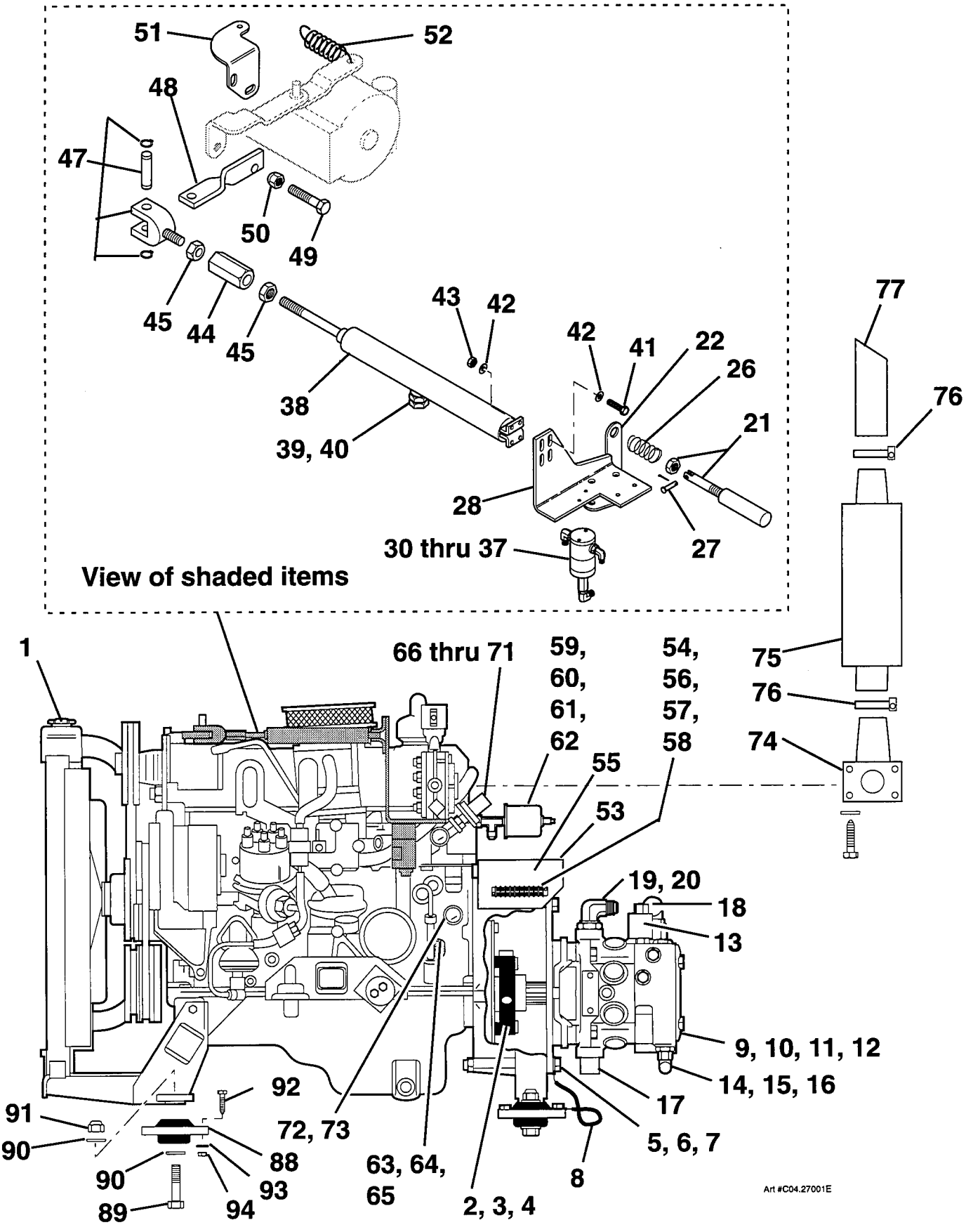
TITLE	ENGINE ASSEMBLY, FORD LSG-423 (PLATE 2 OF 3)		
SIMON AERIALS INC.	NEW 04 AUG., 1994	PART NO.	PLATE NO. C04.27

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

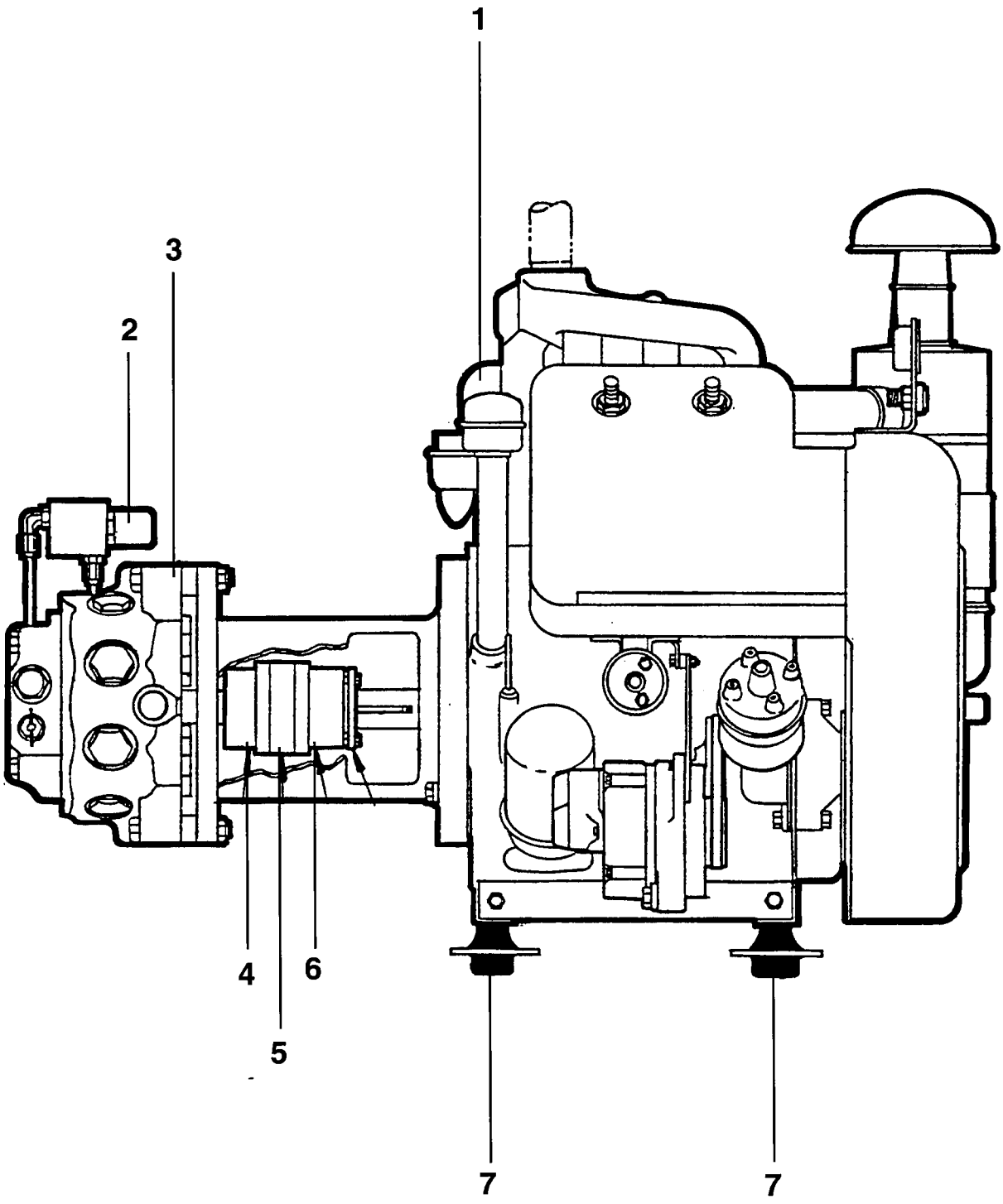


TITLE	ENGINE ASSEMBLY, FORD LSG-423 (PLATE 3 OF 3)		
SIMON AERIALS INC.	NEW 04 AUG., 1994	PART NO.	PLATE NO. C04.27

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	09-002300		GAS ENGINE, 37 H.P. (Wisconsin Model #VG4D)	1
2	01-013700		SOLENOID VALVE, PUMP UNLOADING	1
3	See Index	D8	HYDRAULIC PUMP	1
4	02-008203		COUPLING HALF (Pump)	1
5	02-008201		COUPLING INSERT	1
6	02-025900		COUPLING HALF (Engine)	1
7	09-006500		MOTOR MOUNT (3-3/4" Mtg. Center)	4

TITLE	GAS ENGINE ASSEMBLY - 37 H. P.			
PLATE NO.	C04.28	**SIMON AERIALS INC.**	REV. 09/17/91	PART NO.



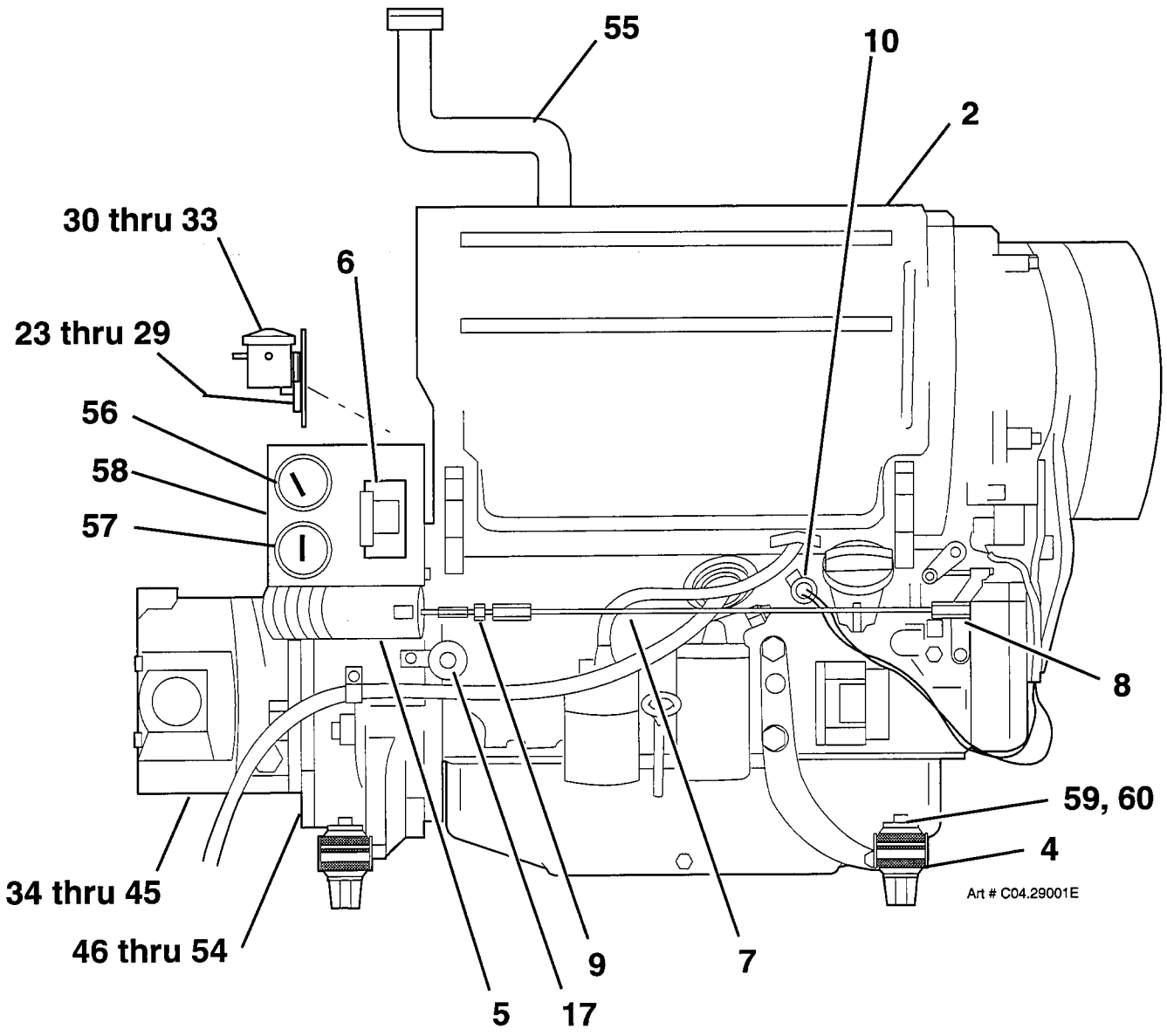
TITLE	GAS ENGINE ASSEMBLY - 37 H. P.		
SIMON AERIALS INC. REV. 09/17/91		PART NO.	PLATE NO. C04.28

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	

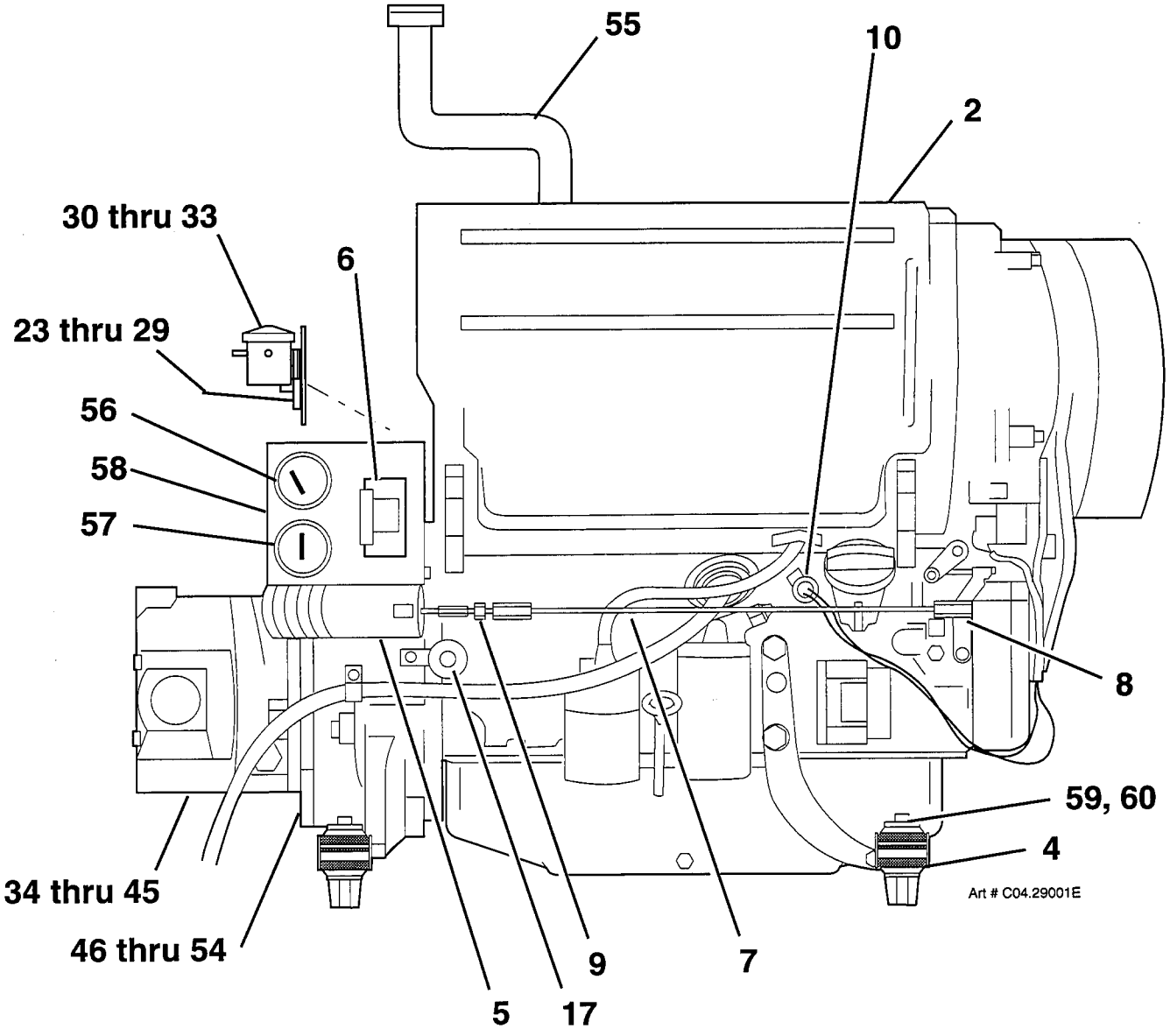


TITLE	ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL (PLATE 1 OF 3)		
SIMON AERIALS INC.	REV. 27 JAN., 1994	PART NO.	PLATE NO. C04.29

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

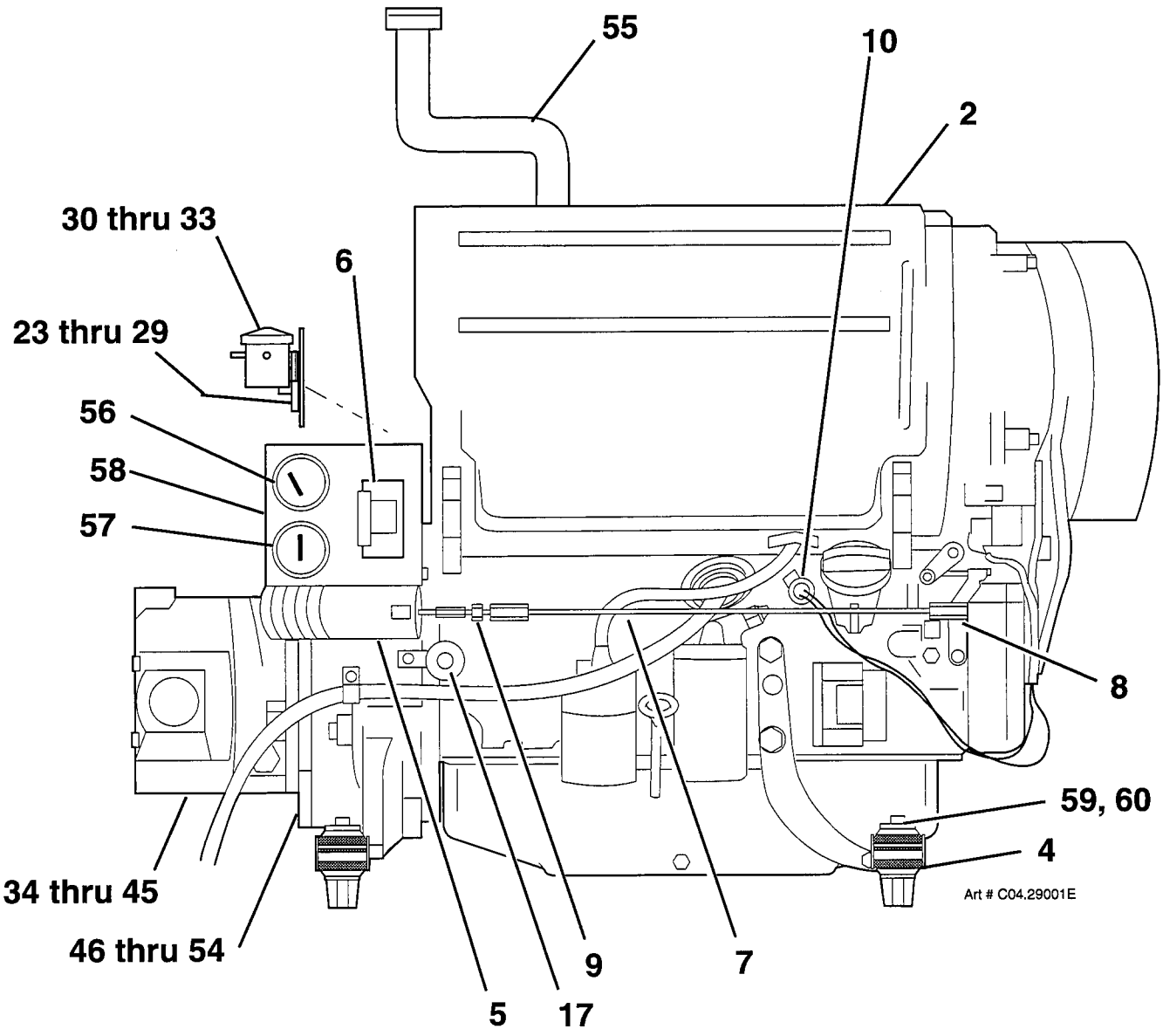


TITLE	ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL (PLATE 2 OF 3)		
SIMON AERIALS INC.	REV. 27 JAN., 1994	PART NO.	PLATE NO. C04.29

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.



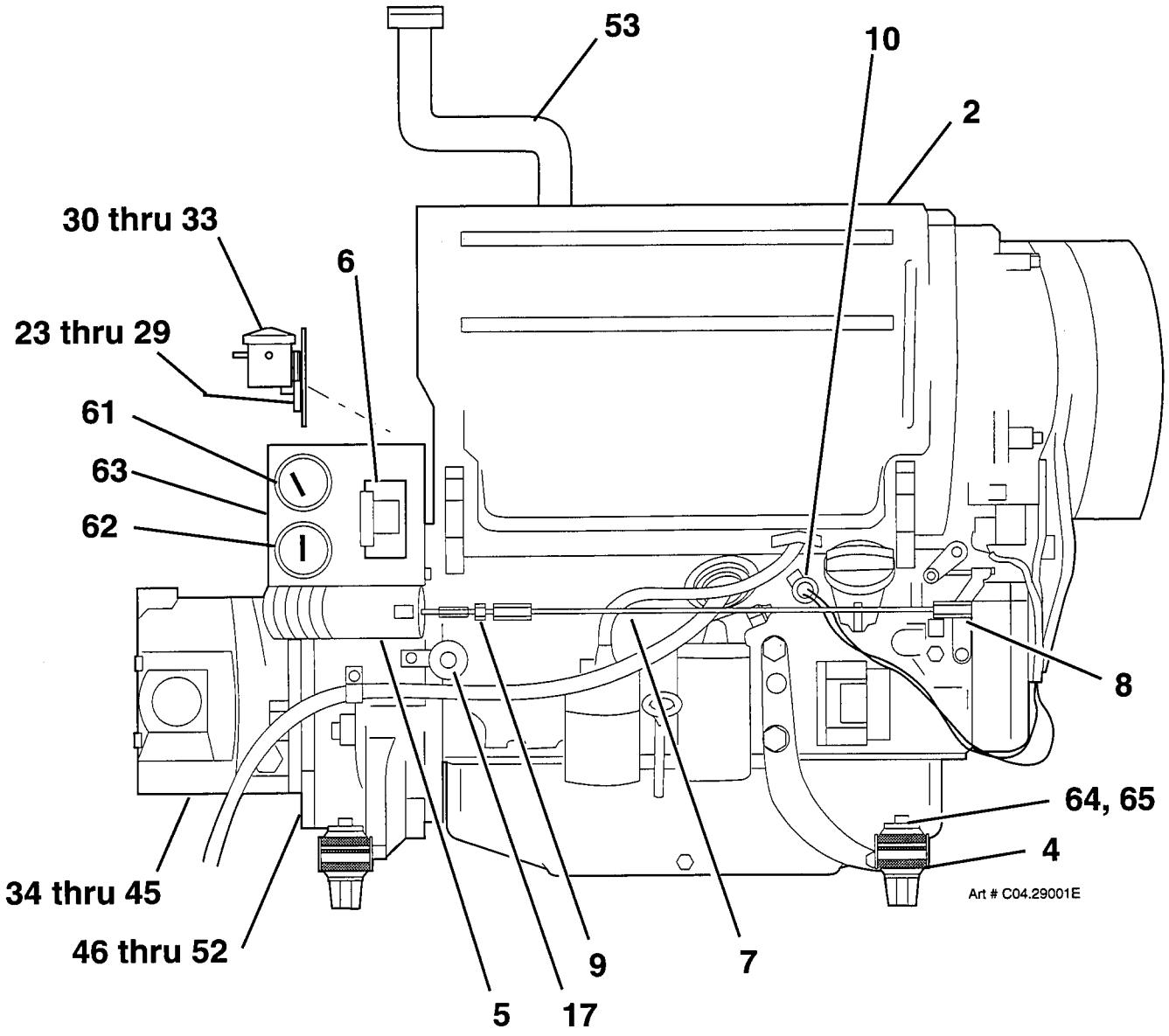
TITLE	ENGINE ASSEMBLY, DEUTZ F4L 1011 DIESEL (PLATE 3 OF 3)		
SIMON AERIALS INC.	REV. 27 JAN., 1994	PART NO.	PLATE NO. C04.29

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			ENGINE ASSEMBLY (Deutz Model F3L 1011)	
	3531260		with HPR 40 Pump	1
	3522690		with HPR 50 Pump	1
2	09-044800		ENGINE, DIESEL (Deutz Model F3L 1011) [42 HP (31 Kw) @ 3,000 RPM, air cooled 3 cylinder)	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	03-469403		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	2305190		BRACKET, MOUNTING (Oil pressure sending unit) (used with HPR 40 pump only)	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, HEX 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, 3/16" x 1/8")	2
17	09-052200		SENDER, OIL PRESSURE GAUGE (0-100 PSI) (used with HPR 40 pump only)	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") (for fuel line)	
			with HPR 40 Pump	2
			with HPR 50 Pump	4
20	07-062016		WASHER, FLAT (3/8") (used with HPR 40 pump only)	2
21	06-084600		ELBOW, FEMALE 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	1
24	07-005184		CAP SCREW, HEX HEAD (M 10 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, HEX LOCK (1/4"-20, Grade 5)	2

TITLE ENGINE ASSEMBLY, DEUTZ F3L 1011 DIESEL (PLATE 1 OF 3)

PLATE NO.			PART NO.
C04.34	**SIMON AERIALS INC.**	NEW 27 JAN., 1994	

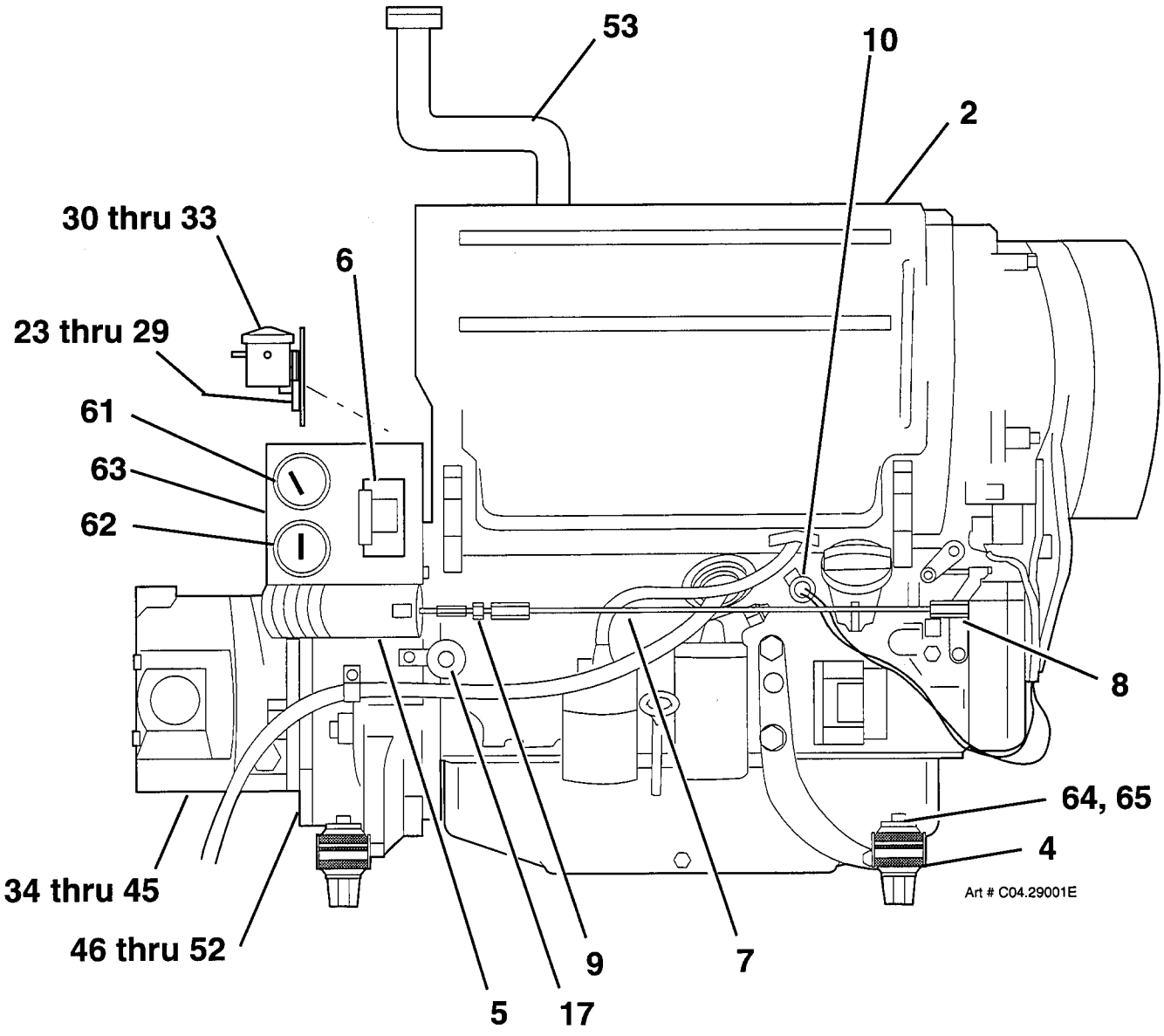


TITLE	ENGINE ASSEMBLY, DEUTZ F3L 1011 DIESEL (PLATE 1 OF 3)		
SIMON AERIALS INC.	NEW 27 JAN., 1994	PART NO.	PLATE NO. C04.34

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
34	See Index	D08. - -	PUMP, HYDRAULIC	1
35			CAP SCREW, HEX HEAD	
	07-003126		with HPR 40 Pump (5/8"-11 x 1-1/4", Grade 5)	4
	07-004127		with HPR 50 Pump (5/8"-11 x 1-1/2", Grade 8)	4
36	07-065021		WASHER, HELICAL LOCK (5/8")	4
37	07-060021		WASHER, FLAT (5/8", standard)	4
38	06-195700		90° FITTING, FLANGED (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			PLATE, PUMP ADAPTER	
	02-011500		• Used with HPR 40 pump [1/2" (13 mm) thick] SAE #5 (8 hole, 12-3/8" pilot) flywheel housing to SAE "C" (2 hole, 5" pilot) pump mount	1
	02-025700		• Used with HPR 50 pump [2" (51 mm) thick] SAE #5 (8 hole, 12-3/8" pilot) flywheel housing to SAE "B" (2 hole, 4" pilot) pump mount	1
47			CAP SCREW, HEX HEAD	
	07-005184		with HPR 40 Pump (M 10 x 25 mm, Grade 8.8)	8
	07-005190		with HPR 50 Pump (M10 x 65 mm, Grade 8.8)	8
48	07-066006		WASHER, LOCK (10 mm) (with HPR 40 pump)	8
49	03-074000		CABLE, BATTERY [Black, 9-3/4" (25 cm) long, 3/8" lugs]	1
50			COUPLING ASSEMBLY, PUMP	
	02-011400		• Used with 02-025700 Pump Adapter for HPR 50 Pump. (10" clutch)	1
	02-043700		• Used with 02-011500 Pump Adapter for HPR 40 Pump.. (Replaces 02-033900)	1
	02-033900		• **Obsolete.** Use 02-043700. 4 segment type, used with 02-011500 Pump Adapter for HPR 40 Pump. 6 hole, 8.5" pilot, 14 tooth spline	1
51	07-005149		CAP SCREW, HEX HEAD (M8 x 25 mm, Grade 8.8)	6
52	07-066005		WASHER, LOCK (8 mm)	6
53	09-056900		PIPE, EXHAUST	1

TITLE	ENGINE ASSEMBLY, DEUTZ F3L 1011 DIESEL (PLATE 2 OF 3)		
PLATE NO. C04.34	**SIMON AERIALS INC.**	NEW 27 JAN., 1994	PART NO.

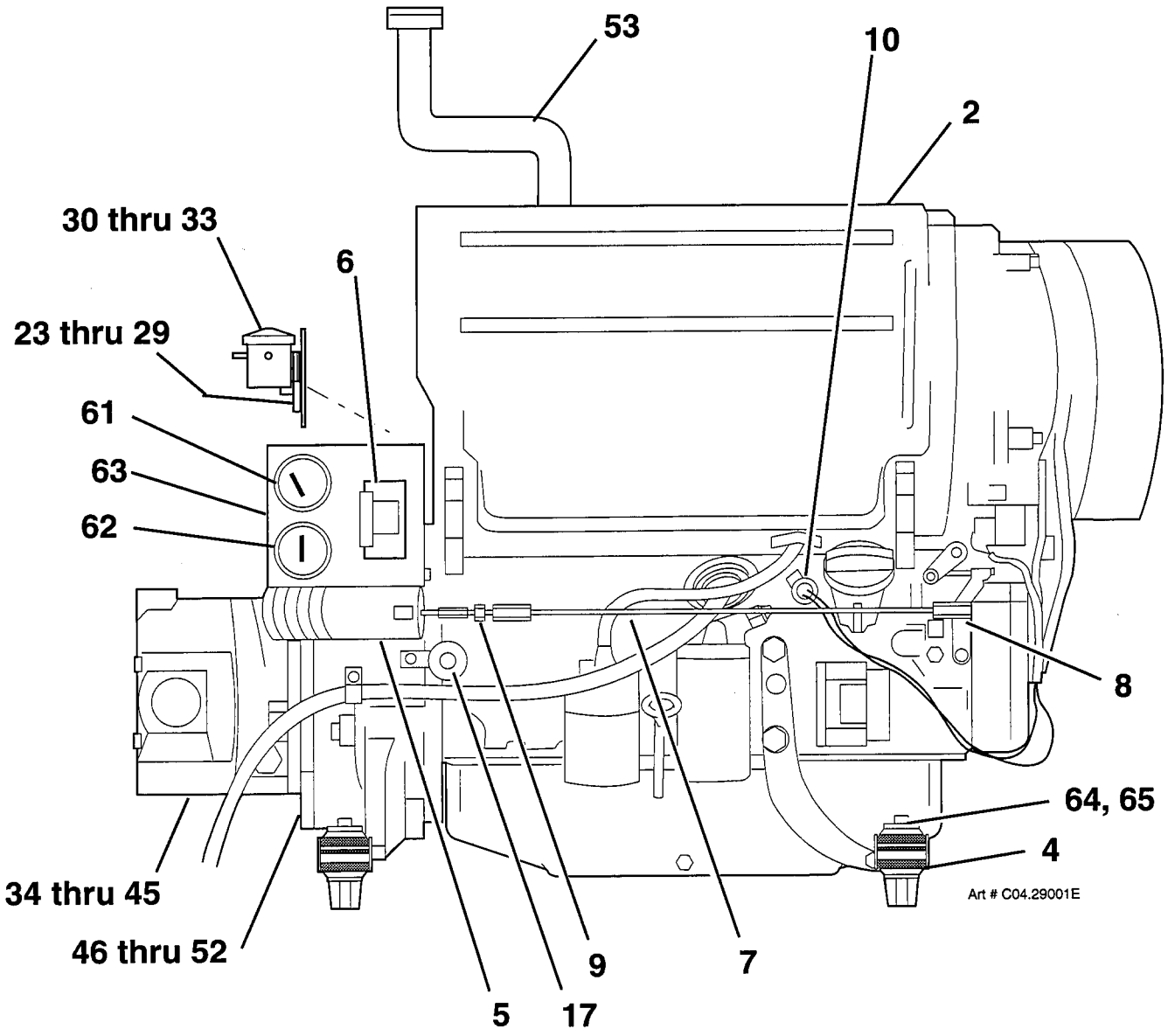


TITLE	ENGINE ASSEMBLY, DEUTZ F3L 1011 DIESEL (PLATE 2 OF 3)		
SIMON AERIALS INC.	NEW 27 JAN., 1994	PART NO.	PLATE NO. C04.34

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
54	03-088300		WIRE, ELECTRICAL (Blue, #14 AWG) (Bulk item) [25 Ft (7.6 M) required with HPR 40 pump] [13.5 Ft (4.1 M) required with HPR 50 pump]	A.R.
55	03-088400		WIRE, ELECTRICAL (Black, #14 AWG) (Bulk item) [0.5 Ft (150 mm) required with HPR 40 pump]	A.R.
56	03-455300		WIRE, ELECTRICAL (Black, #10 AWG stranded) (Bulk item) [.5 Ft (150 mm) required with HPR 40 pump]	A.R.
57	03-457200		WIRE, ELECTRICAL (Blue, #10 AWG stranded) (Bulk) [6.0 Ft (1.8 M) required with HPR 40 pump] [6.8 Ft (2.1 M) required with HPR 50 pump]	A.R.
58	03-466300		WIRE, ELECTRICAL (Red, #10 AWG stranded) (Bulk) [1.0 Ft (30.5 cm) required with HPR 40 pump] [3.5 Ft (1.1 M) required with HPR 50 pump]	A.R.
59	03-061800		DIODE (6 Amp, 200 Volt)	1
60	03-066900		LOOM, WIRE (1/2") (Bulk item, order as needed.) [5.0 Ft (1.5 M) required with HPR 40 pump] [4.2 Ft (1.3 M) required with HPR 50 pump]	A.R.
			The following items are used when gauges are not mounted on the ground control electrical box:	
61	03-030400		AMMETER (50 Amp)	1
62	10-034200		GAUGE, OIL PRESSURE (2-1/2" dial; with mounting bracket)	1
63	2171050		PANEL, GAUGE	1
			The following components, used to mount the engine to the superstructure, **are not** part of the engine assembly:	
64	07-004078		CAP SCREW, HEX HEAD (7/16"-14 x 6-1/2", Grade 8)	4
65	07-050017		NUT, HEX LOCK (7/16"-14)	4

TITLE	ENGINE ASSEMBLY, DEUTZ F3L 1011 DIESEL (PLATE 3 OF 3)		
PLATE NO. C04.34	**SIMON AERIALS INC.**	NEW 27 JAN., 1994	PART NO.



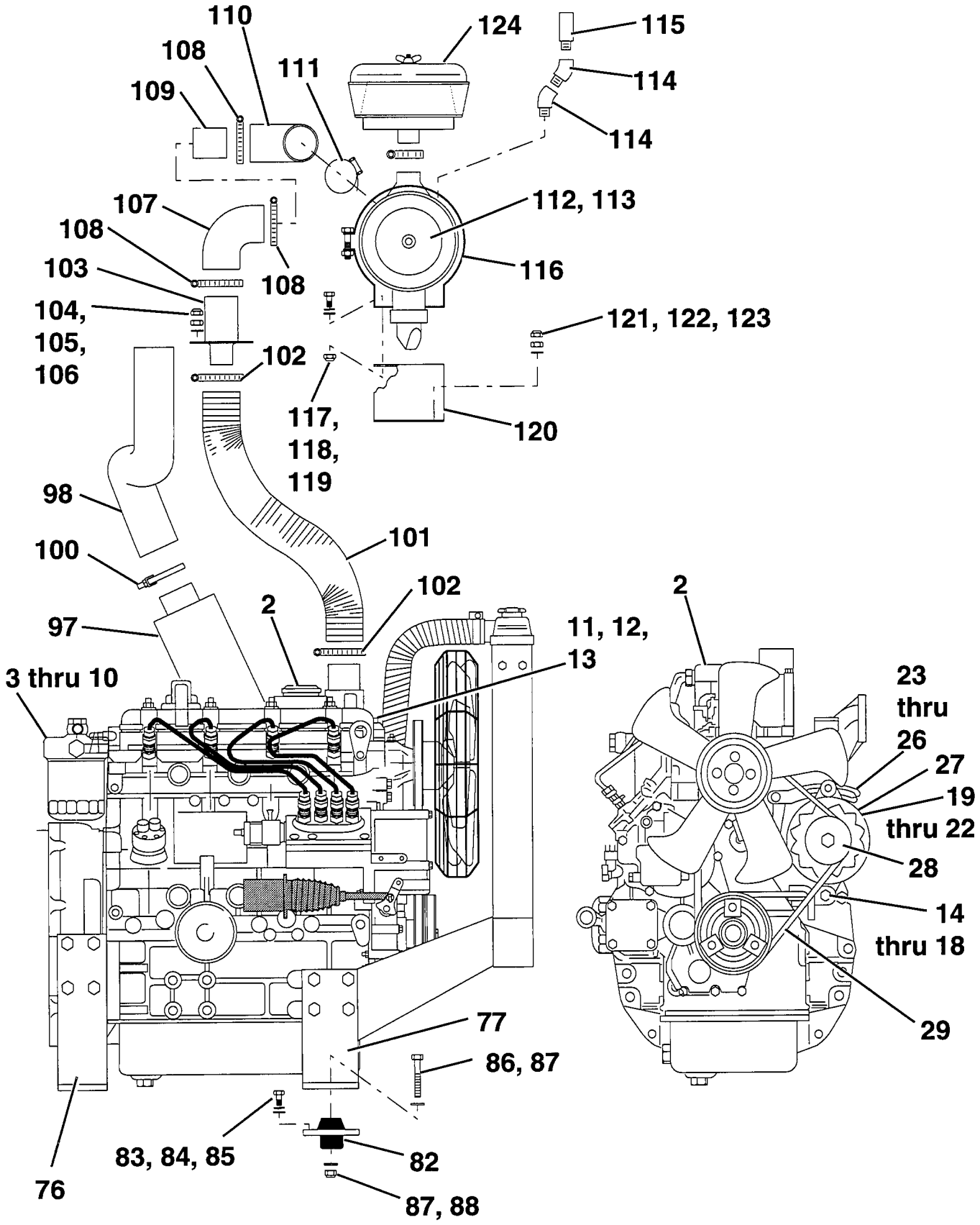
TITLE	ENGINE ASSEMBLY, DEUTZ F3L 1011 DIESEL (PLATE 3 OF 3)		
SIMON AERIALS INC.	NEW 27 JAN., 1994	PART NO.	PLATE NO. C04.34

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			ENGINE ASSEMBLY (Detroit Diesel/ Perkins)	1
	Call Simon		Model 104.22 (Standard version)	
	354 0000		Model 104.22 (for shotblast application)	
2			ENGINE, DIESEL (Detroit Diesel/ Perkins Model 104.22)	
	-		(50 HP [37.3 Kw] @ 3,000 RPM, liquid cooled 4 cyl.)	1
	09-058500		Standard version (includes Alternator)	
	09-058100		for shotblast application (Alternator not included)	
3			SWITCH, OIL PRESSURE (comes with engine)	
			(Not visible on illustration. Behind oil filter.)	1
4			BOLT, FUEL FILTER BRACKET (Rear)	
			(comes with engine)	1
5	230 5190		BRACKET, MOUNTING (Oil pressure sending unit)	1
6	07-062016		WASHER, FLAT (3/8")	1
7	06-074600		TEE, STRAIGHT/ PIPE THREAD (1/8 MRO-S)	1
8	06-084600		90° ELBOW, FEMALE PIPE THREAD (1/8 DD-S)	1
9	06-199300		FITTING, COMPRESSION (Straight, 3/16" x 1/8")	1
10	09-052200		SENDER, OIL PRESSURE GAUGE (0-100 PSI)	1
11	06-201600		90° STREET ELBOW (2202P-2-2) (above water pump)	2
12	06-211300		FITTING (F3 HG-S) (1/8" BSP to 1/8" NPT)	1
13	06-199300		FITTING, COMPRESSION (Straight, 3/16" x 1/8")	1
14	233 2880		BRACKET, ALTERNATOR MOUNTING	1
15	07-005149		CAP SCREW, HEX HEAD (M8 x 25 mm, Grade 8.8)	3
16	07-066005		WASHER, LOCK (8 mm)	3
17	07-062014		WASHER, FLAT (1/4")	3
18	07-062015		WASHER, FLAT (5/16")	3
19	09-058200		ALTERNATOR (12 Volt, 30 Amp, fully enclosed)	1
20	07-003053		CAP SCREW, HEX HEAD (3/8"-16 x 3", Grade 5)	1
21	07-062016		WASHER, FLAT (3/8")	2
22	07-050016		NUT, HEX LOCK (3/8"-16, Grade 5)	1
23	233 7000		ARM, ALTERNATOR TENSION	1
24	07-003025		CAP SCREW, HEX HEAD (5/16"-18 x 1", Grade 5)	1
25	07-065015		WASHER, HELICAL LOCK (5/16")	1
26	07-062015		WASHER, FLAT (5/16")	1
27	09-058300		REGULATOR, ALTERNATOR	
			(Not visible on illustration. Mounts to rear of alternator.)	1
28	09-058400		PULLEY, ALTERNATOR	1
29	10-114800		V-BELT (A-39)	1

TITLE ENGINE ASSEMBLY, DETROIT DIESEL/ PERKINS 104.22 (PLATE 1 OF 5)

PLATE NO.			PART NO.
C04.38	**SIMON AERIALS INC.**	NEW 13 SEP. 1995	



TITLE ENGINE ASSEMBLY, DETROIT DIESEL/ PERKINS 104.22 (PLATE 1 OF 5)

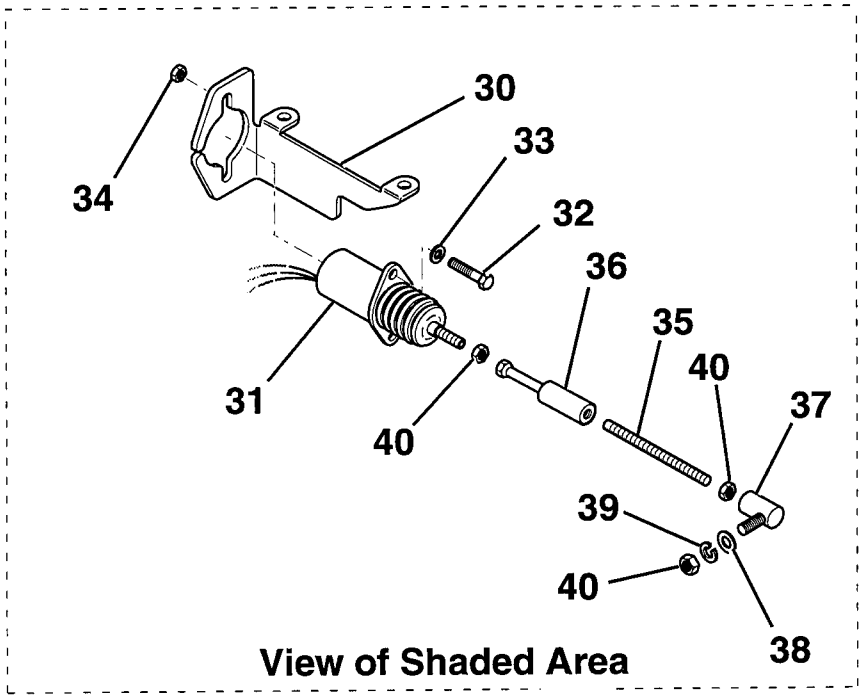
SIMON AERIALS INC. NEW 13 SEP. 1995	PART NO.	PLATE NO. C04.38

PARTS LIST

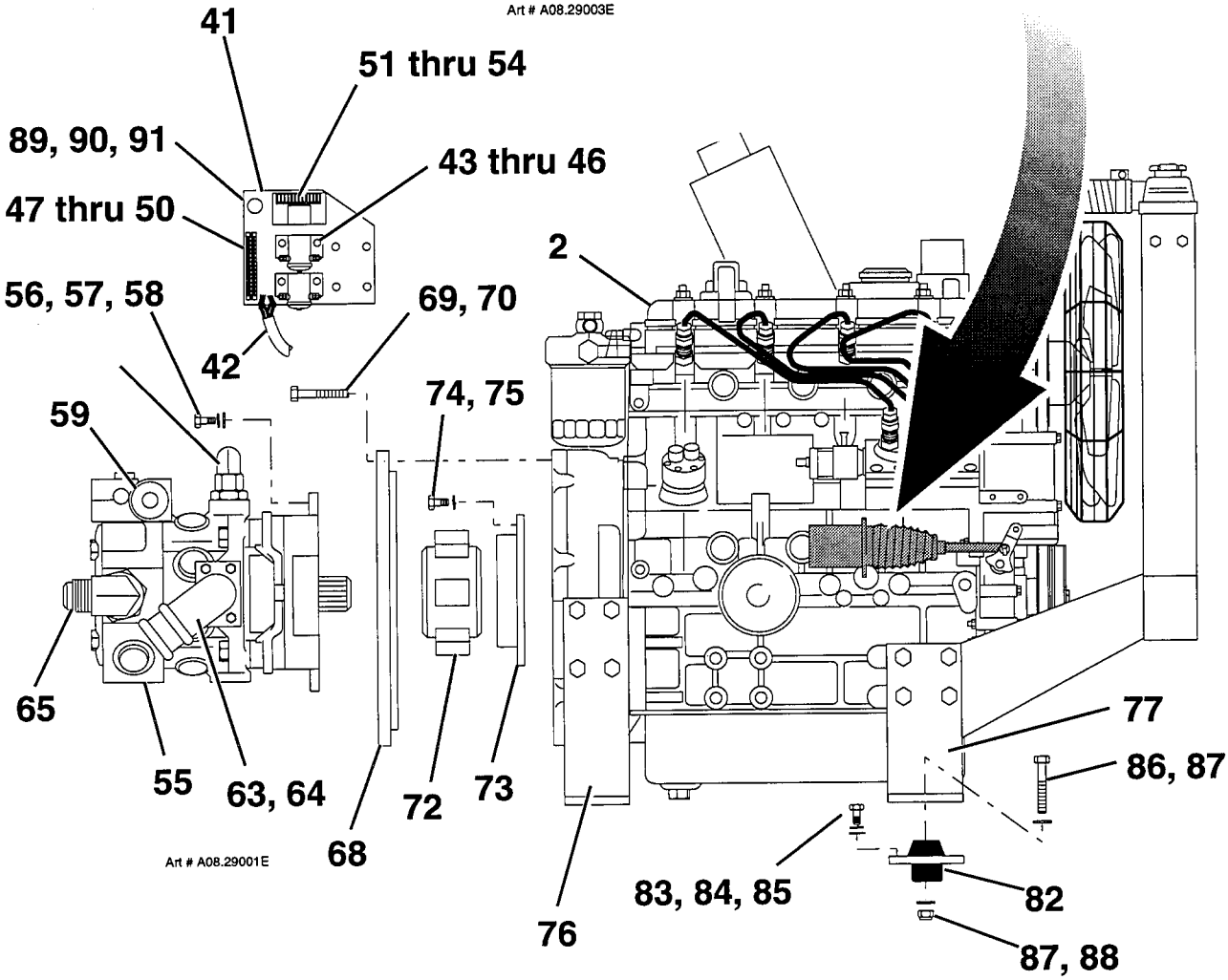
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
30	233 3210		BRACKET, THROTTLE SOLENOID	1
31	03-456800		SOLENOID, THROTTLE (12 Volt DC, 2 bolt mount, includes module 03-456803)	1
32	07-003002		CAP SCREW, HEX HEAD (1/4-20 x 5/8", Grade 5)	2
33	07-060014		WASHER, FLAT (1/4" SAE)	2
34	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	2
35	11-008005		ROD, THREADED (1/4"-28, Grade 5) (3 Ft [.91 M] long piece. 3" [76 mm] required this application)	A.R.
36	09-016402		BALL JOINT (1/4"-28, straight)	1
37	09-016403		BALL JOINT (1/4"-28, 90°)	1
38	07-060014		WASHER, FLAT (1/4" SAE)	1
39	07-065014		WASHER, HELICAL LOCK (1/4")	1
40	07-047114		NUT, JAM (1/4"-28, Grade 5)	3
41	233 3200		PANEL, ACCESSORY (remote mount)	1
42	03-066800		LOOM, WIRE (3/4") (Bulk item, order as needed.) (2 Ft [.61 M] required this application)	A.R.
43	03-051300		RELAY (Single pole, single throw)	2
44	07-003002		CAP SCREW, HEX HEAD (1/4-20 x 5/8", Grade 5)	4
45	07-060014		WASHER, FLAT (1/4" SAE)	4
46	07-050014		NUT, HEX LOCK (1/4"-20, Grade 5)	4
47	03-068000		BLOCK, TERMINAL (10 station)	1
48	07-011334		MACHINE SCREW, ROUND HEAD CROSS RECESS (#6-32 x 3/4", Grade 2)	2
49	07-050007		NUT, STOP (#6-32, Grade 5)	2
50	10-061600		CLAMP, LOOP (1", G-16)	1
51	03-456803		MODULE, THROTTLE SOLENOID (also included with Throttle Solenoid 03-456800)	1
52	07-008354		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8)	2
53	07-062009		WASHER, FLAT (#8)	2
54	07-050011		NUT, STOP (#10-24, Grade 2)	2

TITLE ENGINE ASSEMBLY, DETROIT DIESEL/ PERKINS 104.22 (PLATE 2 OF 5)

PLATE NO.			PART NO.
C04.38	**SIMON AERIALS INC.**	NEW 13 SEP. 1995	



Art # A08.29003E



Art # A08.29001E

TITLE ENGINE ASSEMBLY, DETROIT DIESEL/ PERKINS 104.22 (PLATE 2 OF 5)

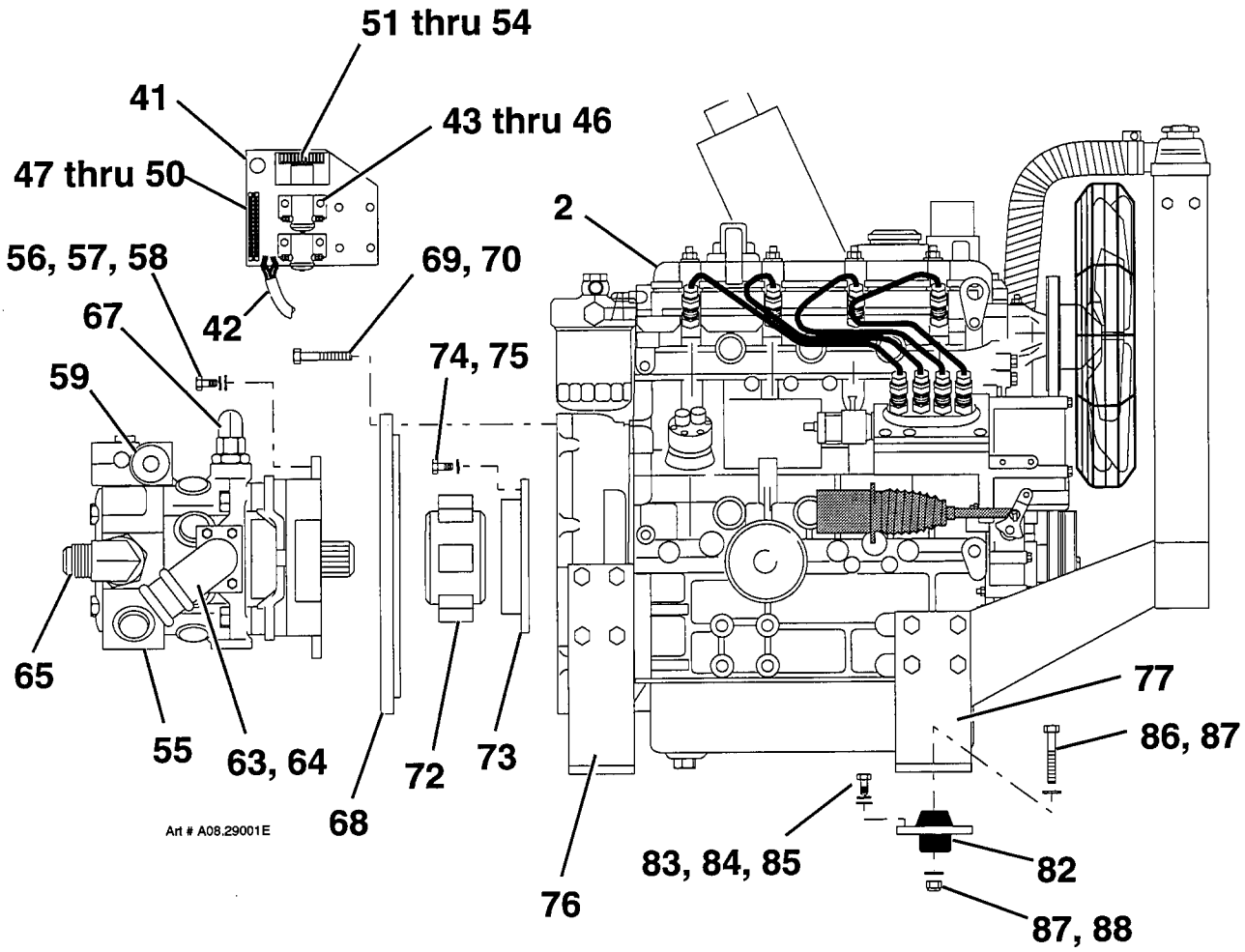
SIMON AERIALS INC.	NEW 13 SEP. 1995	PART NO.	PLATE NO. C04.38

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
55	01-019500	12. - -	PUMP ASSEMBLY, HYDRAULIC	1
56	07-004127		CAP SCREW, HEX HEAD (5/8"-11 x 1-1/2", Grade 8)	4
57	07-065021		WASHER, HELICAL LOCK (5/8")	4
58	07-060021		WASHER, FLAT (5/8", standard)	4
59	01-013700		VALVE, SOLENOID (2 way) (Pump unloading)	1
60	06-195700		90° FITTING, FLANGED (1-1/2" suction to 2" SAE)	
			(Not visible on illustration. On far side of pump.)	1
61	07-003087		CAP SCREW, HEX HEAD (1/2"-13 x 1-1/2", Grade 5)	4
62	07-065018		WASHER, HELICAL LOCK (1/2")	4
63	06-215700		STEM, ADAPTER (16 FL 5K-16 MJ 90)	1
64	06-213800		FLANGE/ ADAPTER KIT (16 CFHS-87989)	
			(includes two flange halves and mounting hardware)	1
65	06-045800		90° ELBOW, STRAIGHT THREAD (16 C50X-S)	2
66	06-191900		ADAPTER, "O"-RING TO 37° (6-4 F50X-S)	
			(Not visible on illustration. On far side of pump.)	1
67	06-044700		90° ELBOW, STRAIGHT THREAD (6-8 C50X-S)	1
68	02-036500		PLATE, PUMP ADAPTER (3/4" [19 mm] thick) SAE #5 (12 hole, 14-1/4" pilot) flywheel housing to SAE "C" (4 hole, 5" pilot) pump mount	1
69	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4", Grade 8)	12
70	07-065016		WASHER, HELICAL LOCK (3/8")	12
71	03-074000		CABLE, GROUND (Black, 9-3/4" [25 cm] long, 3/8" lugs)	1
72			HUB, COUPLING (32-13-14 Tooth, 12/ 24 Pitch Dia.)	1
	02-036600		Earlier style (CK-100, 6 lug mating surface to element)	
	02-046400		Later style (Splined mating surface to element)	
73			ELEMENT, COUPLING (SAE #7.5, 8 hole, 9-1/2" pilot)	1
	02-036800		Earlier style (CK100, 6 lug mating surface to hub)	
	02-046600		Later style (Splined mating surface to hub)	
74	07-003025		CAP SCREW, HEX HEAD (5/16"-18 x 1", Grade 5)	8
75	07-065015		WASHER, HELICAL LOCK (5/16")	8
76	233 5060		FOOT, MOTOR MOUNT (long)	1
77	233 5070		FOOT, MOTOR MOUNT (short)	
			(One mounts to far side of engine with hardware below.)	3
78	07-090153		CAP SCREW, HEX HEAD (M14 x 45 mm, Grade 8.8)	
			(Not visible on illustration. On far side of engine.)	4
79	07-066005		WASHER, LOCK (14 mm)	4
80	07-060021		WASHER, FLAT (5/8")	4

TITLE ENGINE ASSEMBLY, DETROIT DIESEL/ PERKINS 104.22 (PLATE 3 OF 5)

PLATE NO.	SIMON AERIALS INC.	PART NO.
C04.38	NEW 13 SEP. 1995	



TITLE ENGINE ASSEMBLY, DETROIT DIESEL/ PERKINS 104.22 (PLATE 3 OF 5)

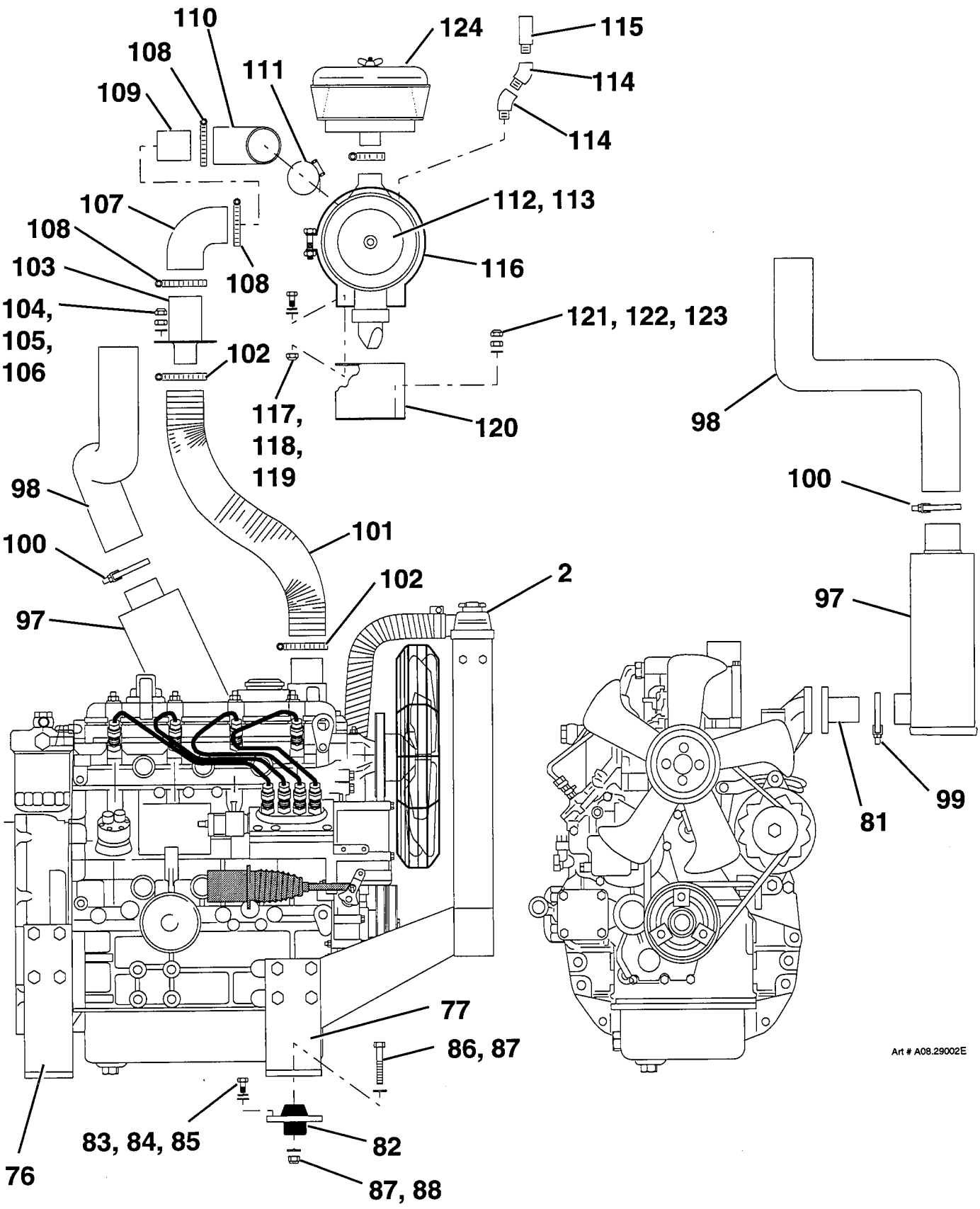
SIMON AERIALS INC. NEW 13 SEP. 1995	PART NO.	PLATE NO. C04.38

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
81	217 6380		FLANGE, EXHAUST	1
			The following components, used in mounting the engine to the superstructure, **are not** part of the Engine Assembly:	
82	09-006500		MOUNT, ENGINE	4
83	07-003046		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/4", Grade 5)	8
84	07-065016		WASHER, HELICAL LOCK (3/8")	8
85	07-062016		WASHER, FLAT (3/8")	16
86	07-004092		CAP SCREW, HEX HEAD (1/2"-13 x 2-3/4", Grade 8)	4
87	07-061018		WASHER, FLAT (1/2")	8
88	07-058400		NUT, LOCK (1/2"-13)	4
89	07-003085		CAP SCREW, HEX HEAD (1/2"-13 x 1", Grade 5)	2
90	07-065018		WASHER, HELICAL LOCK (1/2")	2
91	07-062018		WASHER, FLAT (1/2")	2
92	05-085000		HOSE, SUCTION (1-1/2") (Bulk item, order as needed. 12" [30.5 cm] required this application)	A.R.
93	09-015000		CLAMP, HOSE (Suction line) (2-1/2")	4
94	05-081900		HOSE, FUEL LINE (5/16") (Bulk item, order as needed. 12 Ft [3.66 M] required this application)	A.R.
95	05-006400		HOSE, FUEL RETURN (1/4") (Bulk item, order as needed. 12 Ft [3.66 M] required this application)	A.R.
96	09-004600		CLAMP, WORM (1/4" to 5/8") (for fuel line)	4
97	09-024700		MUFFLER	1
98	233 8530		PIPE, EXHAUST	1
99	09-003800		CLAMP, MUFFLER (1-3/4", "U" bolt, universal)	1
100	09-015400		CLAMP, MUFFLER (2", "U" bolt, universal)	1
101	09-037100		HOSE, FLEX (2") (Bulk item, order as needed. 29" [74 cm] required this application)	A.R.
102	09-015000		CLAMP, HOSE (2-1/2")	2
103	233 6850		ADAPTER, AIR CLEANER	1
104	07-062015		WASHER, FLAT (5/16")	2
105	07-040015		NUT, HEX (5/16"-18, Grade 5)	2
106	07-044015		NUT, ACORN (5/16"-18)	2
107	09-003500		90° ELBOW (Rubber, 3" I.D.)	1
108	09-008500		CLAMP, HOSE (3-1/2")	3
109	233 6810		COUPLER, PIPE	1
110	09-009700		90° ELBOW (Rubber, 3" to 3-1/2" I.D.)	1
111	09-008600		CLAMP, HOSE (4")	1

TITLE ENGINE ASSEMBLY, DETROIT DIESEL/ PERKINS 104.22 (PLATE 4 OF 5)

PLATE NO.			PART NO.
C04.38	**SIMON AERIALS INC.**	NEW 13 SEP. 1995	



TITLE ENGINE ASSEMBLY, DETROIT DIESEL/ PERKINS 104.22 (PLATE 4 OF 5)

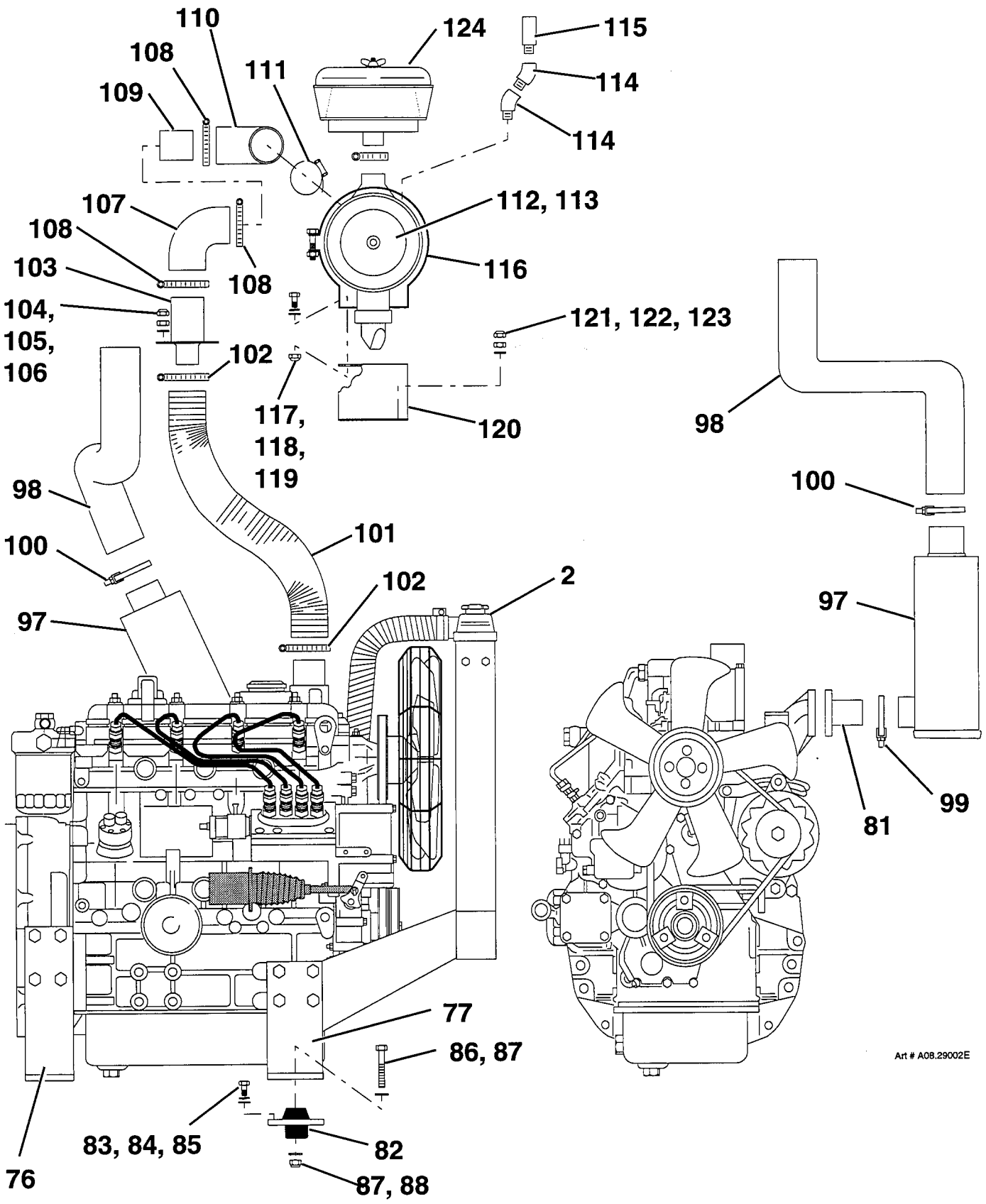
SIMON AERIALS INC.	NEW 13 SEP. 1995	PART NO.	PLATE NO. C04.38

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
112	09-007000		AIR CLEANER ASSEMBLY (8" [203 mm] dia.)	1
113	09-007001		ELEMENT, AIR FILTER	1
114	06-081300		45° STREET ELBOW (1/8 CD45-S)	2
115	09-009900		INDICATOR, AIR FILTER SERVICE (20")	1
116	09-003400		BAND, MOUNTING (8" dia.)	2
117	07-003022		CAP SCREW, HEX HEAD (5/16"-18 x 5/8", Grade 5)	4
118	07-062015		WASHER, FLAT (5/16")	4
119	07-050015		NUT, STOP (5/16"-18)	4
120	233 6800		BRACKET, AIR CLEANER	2
121	07-062016		WASHER, FLAT (3/8")	4
122	07-040016		NUT, HEX (3/8"-16, Grade 5)	4
123	07-044016		NUT, ACORN (3/8"-16)	4
124	09-007100		PRE-CLEANER (3-3/4" [95 mm] dia.) (includes clamp)	1
125	05-082200		OIL PRESSURE LINE (3/16") (Bulk item, order as needed. 24" [61 cm] needed this application, from compression fitting above water pump to fitting at oil pressure sender.)	A.R.
			The following hardware items may be used:	
126	03-087500		WIRE, ELECTRICAL (#16 AWG, Blue, stranded) (Bulk item)	A.R.
127	03-087600		WIRE, ELECTRICAL (#16 AWG, Black, stranded) (Bulk item)	A.R.
128	03-087800		WIRE, ELECTRICAL (#16 AWG, Red) (Bulk item)	A.R.
129	03-088300		WIRE, ELECTRICAL (#14 AWG, Blue) (Bulk item)	A.R.
130	03-088400		WIRE, ELECTRICAL (#14 AWG, Black) (Bulk item)	A.R.
131	03-455300		WIRE, ELECTRICAL (#10 AWG, Black, stranded) (Bulk item)	A.R.
132	03-457200		WIRE, ELECTRICAL (#10 AWG, Blue, stranded) (Bulk item)	A.R.
133	03-466300		WIRE, ELECTRICAL (#10 AWG, Red, stranded) (Bulk item)	A.R.
134	03-092200		COUPLING, INSULATED (Male, blue nylon, #14-16 AWG)	A.R.
135	03-092300		COUPLING, INSULATED (Female, blue nylon, 14-16 AWG)	A.R.
136	03-094600		TERMINAL, RING (Blue, #14-16 AWG, #10 stud)	A.R.
137	03-094800		TERMINAL, RING (Blue, #14-16 AWG, 3/8" stud)	A.R.
138	03-095400		TERMINAL, RING (Blue, #10-12 AWG, #10 stud)	A.R.
139	03-095600		TERMINAL, RING (Blue, #10-12 AWG, 1/4" stud)	A.R.
140	03-095700		TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud)	A.R.
141	03-091200		TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud)	A.R.
142	03-091700		TERMINAL, SPADE (Locking, #10-12 AWG, #6 stud)	A.R.
143	03-061800		DIODE	A.R.

TITLE ENGINE ASSEMBLY, DETROIT DIESEL/ PERKINS 104.22 (PLATE 5 OF 5)

PLATE NO.			PART NO.
C04.38	**SIMON AERIALS INC.**	NEW 13 SEP. 1995	



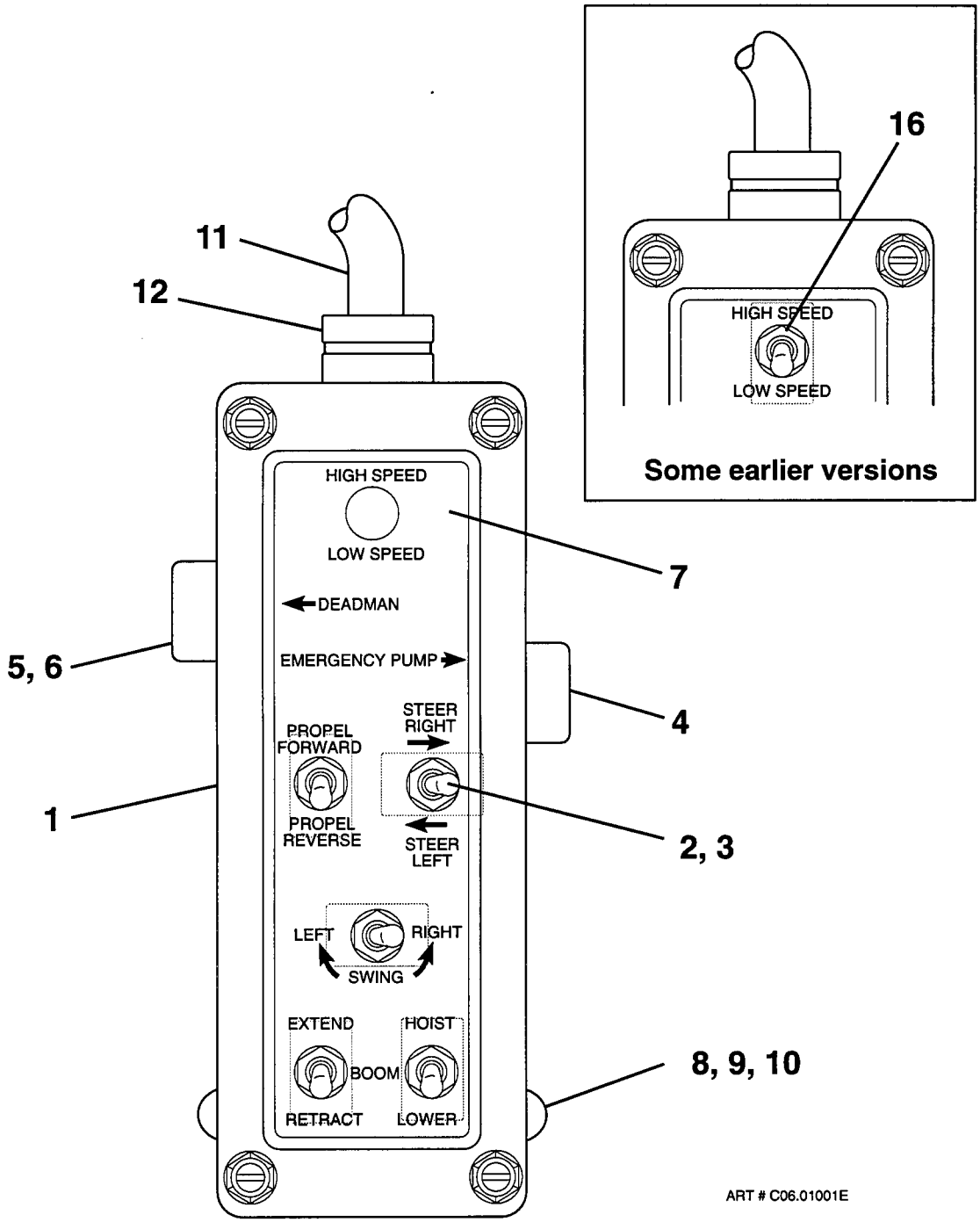
TITLE ENGINE ASSEMBLY, DETROIT DIESEL/ PERKINS 104.22 (PLATE 5 OF 5)

SIMON AERIALS INC.	NEW 13 SEP. 1995	PART NO.	PLATE NO. C04.38

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.

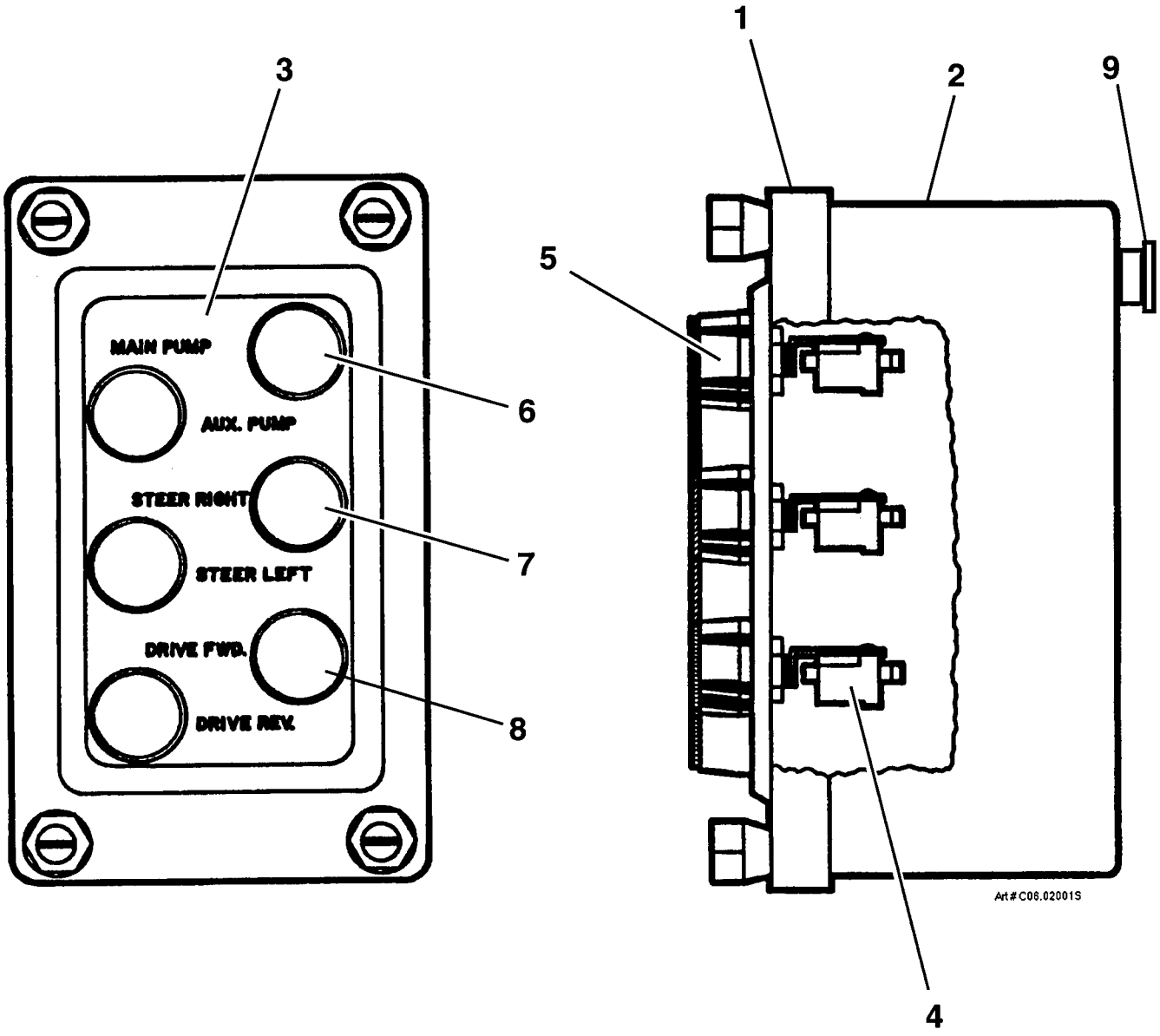


TITLE	REMOTE CONTROL PENDANT ASSEMBLY		
SIMON AERIALS INC. REV. 18 NOV., 1994		PART NO.	PLATE NO. C06.01

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			BOX, CONTROL, (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

TITLE	PENDANT ASSEMBLY, REMOTE CONTROL			
PLATE NO.	C06.02	**SIMON AERIALS INC.**	REV. 08/16/91	PART NO. 3510225



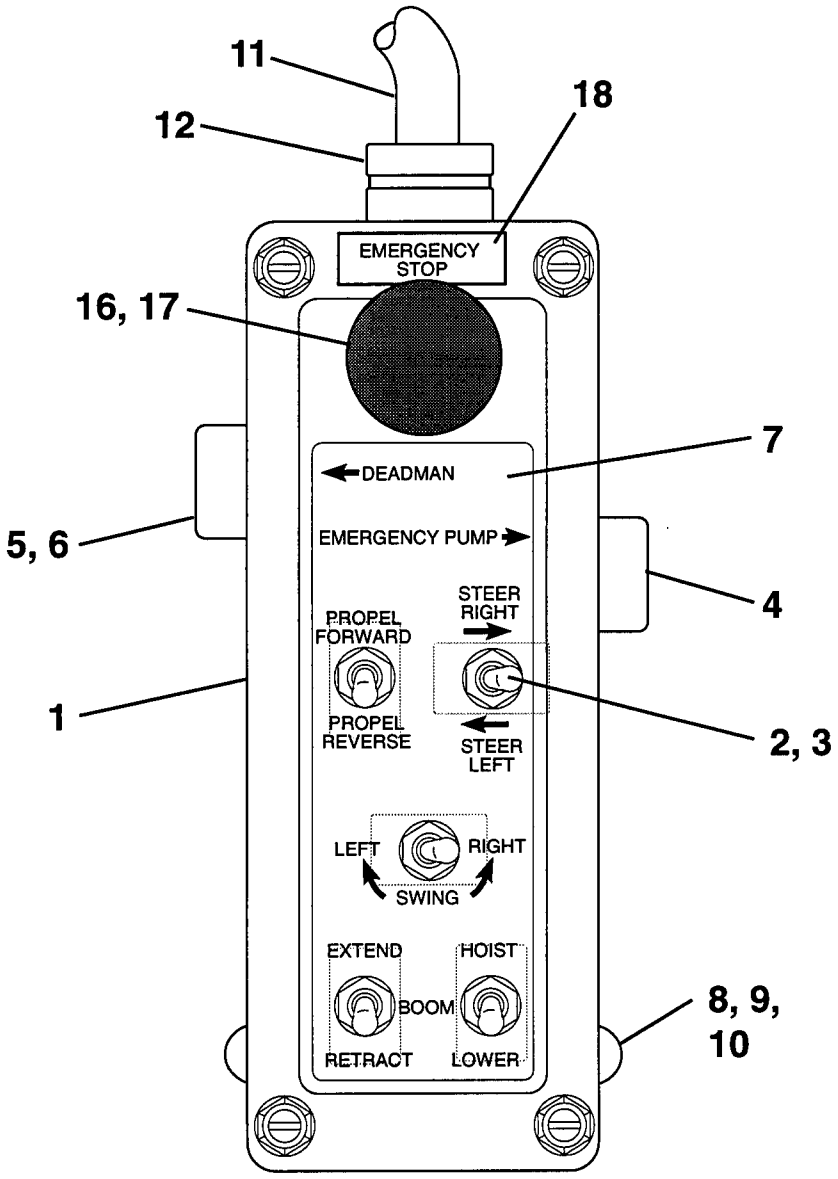
TITLE	PENDANT ASSEMBLY, REMOTE CONTROL		
SIMON AERIALS INC. REV. 08/16/91	PART NO. 3510225	PLATE NO. C06.02	

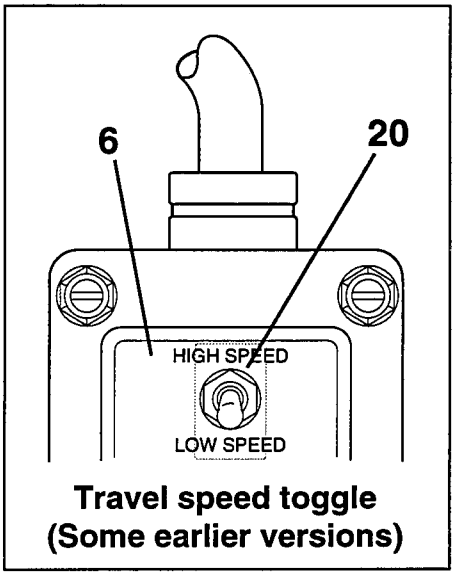
PARTS LIST

ITEM	PART NO	SEE SECTION	DES
			REMOTE CONTROL PE
	No Part #		Earlier version, with 10
	No Part #		Later version, with 20 F
1	03-063000		BOX, CONTROL (Undrill
2	03-020500		SWITCH, TOGGLE (Dou
3	03-497900		SEAL, PANEL (optional)
4	03-020300		BUTTON, PUSH (Single
5	03-021200		BUTTON, PUSH (Two po
6	03-025000		BLOCK, CONTACT (Nor
7			PLATE, REMOTE CONT
	10-016400		With toggle switch hole
	No Part #		Modify part 10-016400
			"High/ Low speed" tog
8	01-031705		KNOB, CONTROL BOX
9	07-008354		CAP SCREW, SOCKET
10	07-062011		WASHER, FLAT (#10)
11			CABLE, ELECTRICAL [E
	03-085000		For earlier versions: Ty
			(10 Ft [3.05 M] neede
	03-488800		For later versions: Typ
			(20 Ft [6.10 M] neede
12	03-063200		GRIP, CORD (3/4", seali
13	03-055600		NUT, CONDUIT LOCK (3
14	03-091200		TERMINAL, SPADE (Blu
15	03-091300		TERMINAL, SPADE (Blu
16	03-409800		BUTTON, EMERGENCY
17	03-409900		BASE ASSEMBLY, SWI
			(includes "Normally clos
18	10-101800		DECAL, "EMERGENCY
			(on later units having E
			face of pendant)
19	No Part #		DECAL, "EMERGENCY
			(on some earlier units h
			the underside of the pe
			The following optional ite
			earlier pendants, is **not p**
			Assembly:
20	03-020400		SWITCH, TOGGLE (Trav
			(Two position, maintain

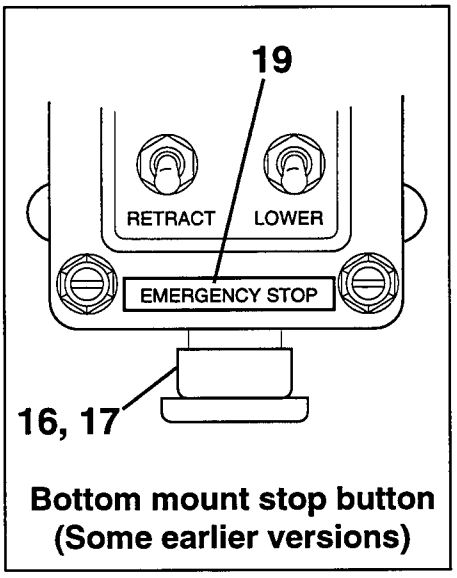
TITLE REMOTE CONTROL PENDANT ASSEMB

PLATE NO. C06.03 | **SIMON AERIALS INC.**





Travel speed toggle (Some earlier versions)



Bottom mount stop button (Some earlier versions)

ART # C06.03005E

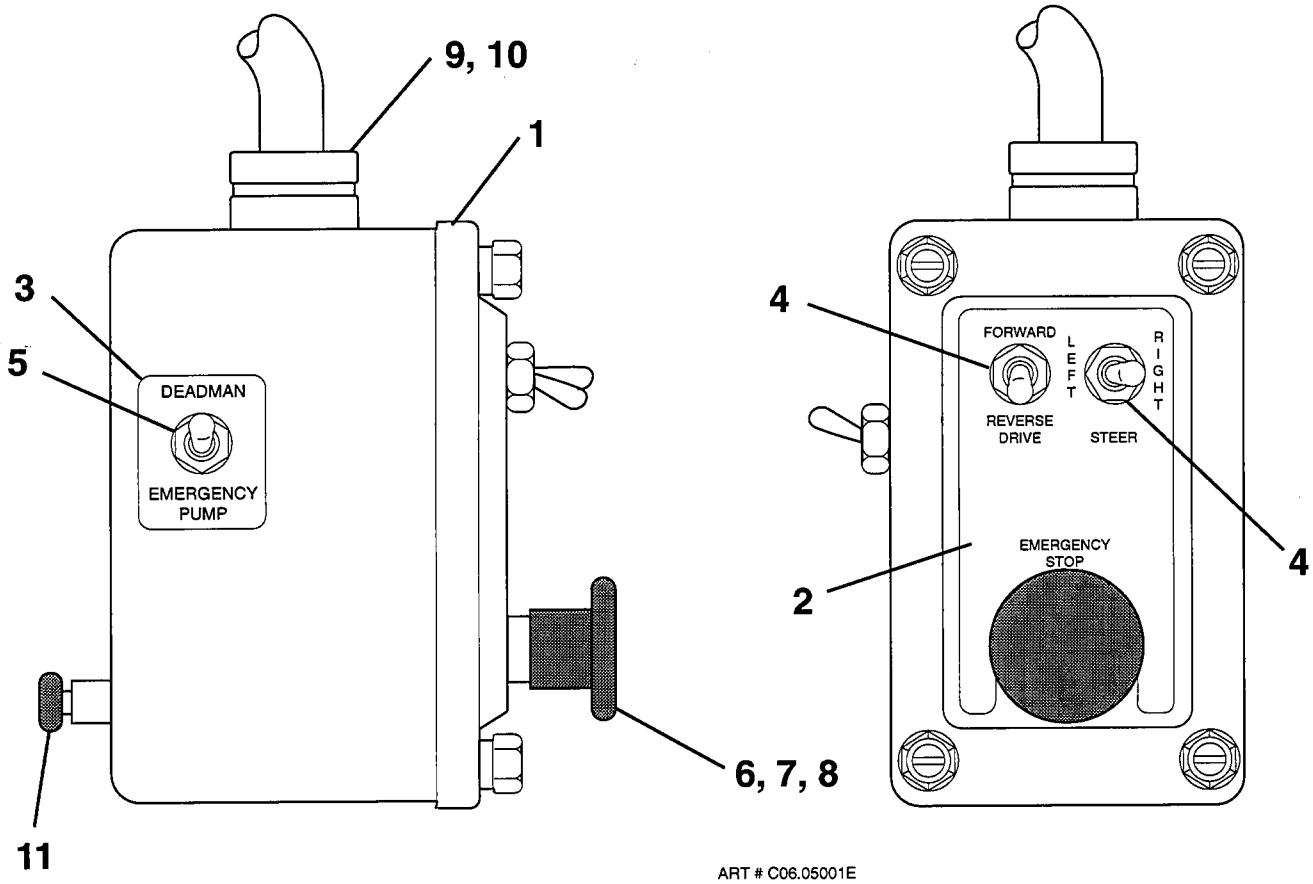
TITLE REMOTE CONTROL PENDANT ASSEMBLY (WITH "EMERGENCY STOP")

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

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2180780		BOX, REMOTE CONTROL PENDANT (includes cover)	1
2	10-119700		DECAL, PENDANT CONTROL	1
3	10-119800		DECAL, "EMERGENCY PUMP/ DEADMAN"	1
4	03-020500		SWITCH, TOGGLE (3 position, intermittent contact, single pole, single throw)	2
5	03-020600		SWITCH, TOGGLE (3 position, intermittent contact, double pole, double throw)	1
6	03-409800		SWITCH, PUSH BUTTON (Red) (Emergency stop)	1
7	03-437300		BLOCK, CONTACT (normally closed)	1
8	03-454900		BASE, SWITCH MOUNTING	1
9	03-045500		GRIP, CORD (1/2")	1
10	03-055500		NUT, CONDUIT LOCK	1
11	01-031705		KNOB, VALVE (for attachment to bracket)	2
12	07-008354		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8)	2
13	07-062011		WASHER, FLAT (#10)	8
14	03-091200		TERMINAL, SPADE (locking, #14-16 AWG, #6 stud)	11
15	03-064000		TIE, CABLE (6-3/4")	6

TITLE	PENDANT ASSEMBLY, REMOTE CONTROL			
PLATE NO. C06.05	**SIMON AERIALS INC.**	NEW 01/21/91	PART NO.	3524490



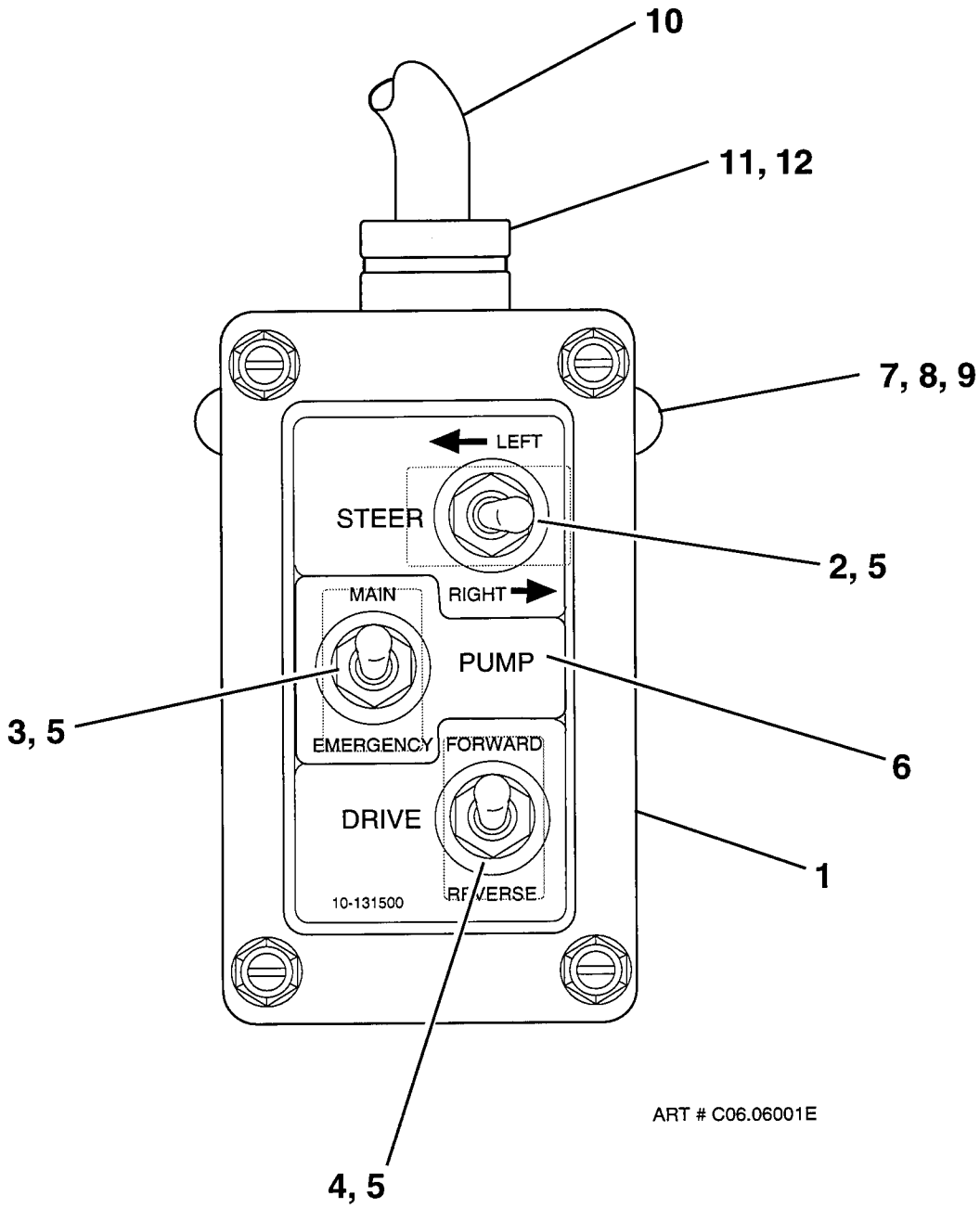
ART # C06.05001E

TITLE	PENDANT ASSEMBLY, REMOTE CONTROL		
SIMON AERIALS INC.	NEW 01/21/91	PART NO. 3524490	PLATE NO. C06.05

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	219 3970		BOX, CONTROL (drilled, includes cover)	1
2	03-020500		SWITCH, TOGGLE (Steer) (Three position, momentary contact, single pole, double throw)	1
3	03-020500		SWITCH, TOGGLE (Pump) (Three position, momentary contact, single pole, double throw)	1
4	03-020600		SWITCH, TOGGLE (Drive) (Three position, momentary contact, double pole, double throw)	1
5	03-497900		SEAL, PANEL	3
6	10-131500		DECAL, REMOTE CONTROL PENDANT	1
			Earlier style has Black lettering on a White background. Later style has White and Red lettering on Black. Appearance change only, decals are interchangeable.	
7	01-031705		KNOB, CONTROL BOX MOUNTING	2
8	07-008354		CAP SCREW, SOCKET HEAD (#10-24 x 1-1/4", Grade 8)	2
9	07-062011		WASHER, FLAT (#10)	10
10	03-446100		CABLE, ELECTRICAL (18 AWG, 10 conductor) (10 Ft [3.05 M] needed for this application)	A.R.
11	03-041700		GRIP, CORD (3/8", with .31" to .38" seal)	1
12	03-055700		NUT, CONDUIT LOCK (3/8")	1
13	03-091200		TERMINAL, SPADE (Blue, #6 stud, #14-16 AWG)	11
14	03-439000		TIE, CABLE (3-5/8" [92 mm] long)	5
15	03-064100		MOUNT, CABLE TIE (adhesive backed)	1

TITLE	PENDANT ASSEMBLY, REMOTE CONTROL		
PLATE NO. C06.06	**SIMON AERIALS INC.**	REV. 07 SEP., 1995	PART NO. 352 9370

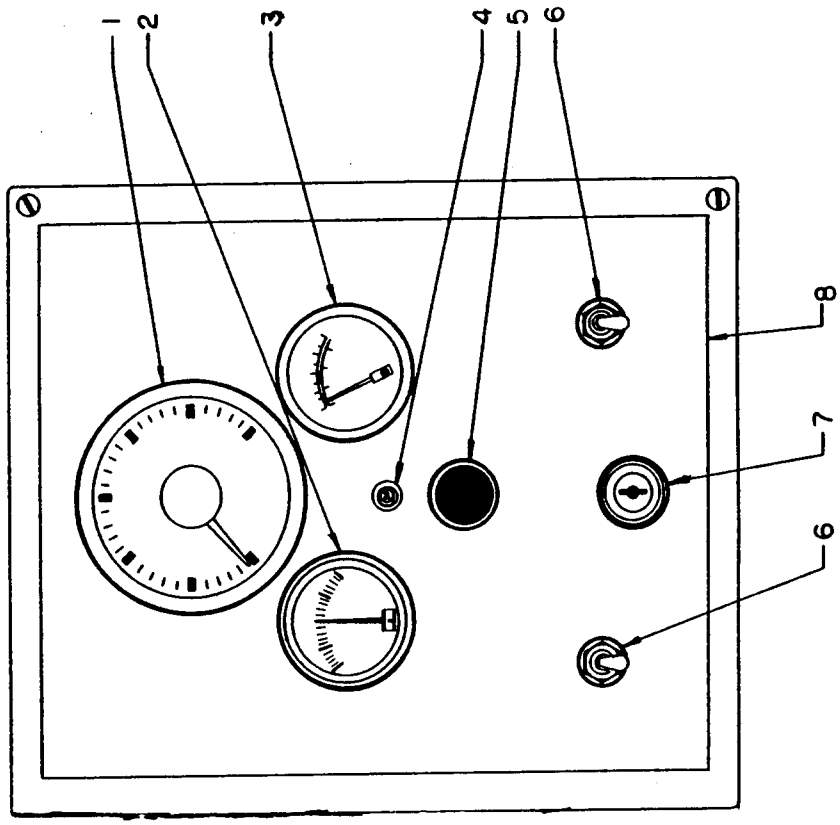


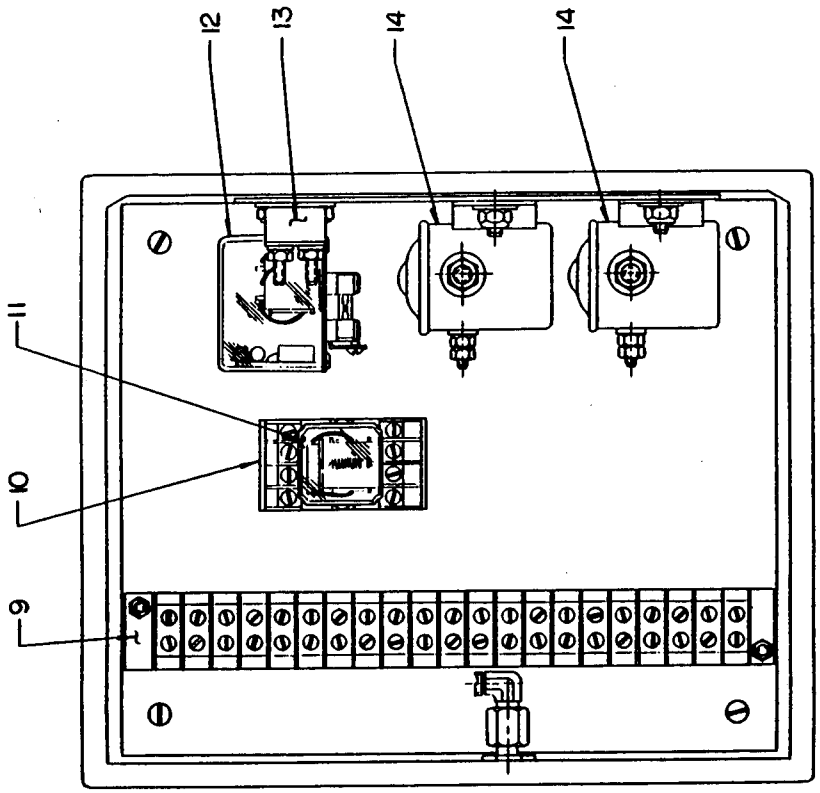
TITLE	PENDANT ASSEMBLY, REMOTE CONTROL		
SIMON AERIALS INC. REV. 07 SEP., 1995		PART NO. 352 9370	PLATE NO. C06.06

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	09-000407		TACHOMETER	1
2	03-030400		AMMETER	1
3	03-030300		OIL PRESSURE GAUGE/SWITCH	1
4	03-024000		CIRCUIT BREAKER, 20 AMP	1
5	03-020300		PUSH BUTTON, SPST	1
6	03-020400		TOGGLE SWITCH, SPST	2
7	03-021000		KEY SWITCH	1
8	10-019600		DECAL	1
9	03-060000		TERMINAL STRIP	1
10	03-050300		SOCKET, RELAY, 8 PIN	1
11	03-050100		CONTROL RELAY, DPDT	1
12	03-032100		CONTROL RELAY, TIMEDELAY	1
13	03-024100		CIRCUIT BREAKER, 10 AMP	1
14	03-051300		RELAY (SOLENOID) SPST	2

DESCRIPTION	PART NO.
ENGINE CONTROL BOX ASSEMBLY	CAA-206225-5





1283/0677

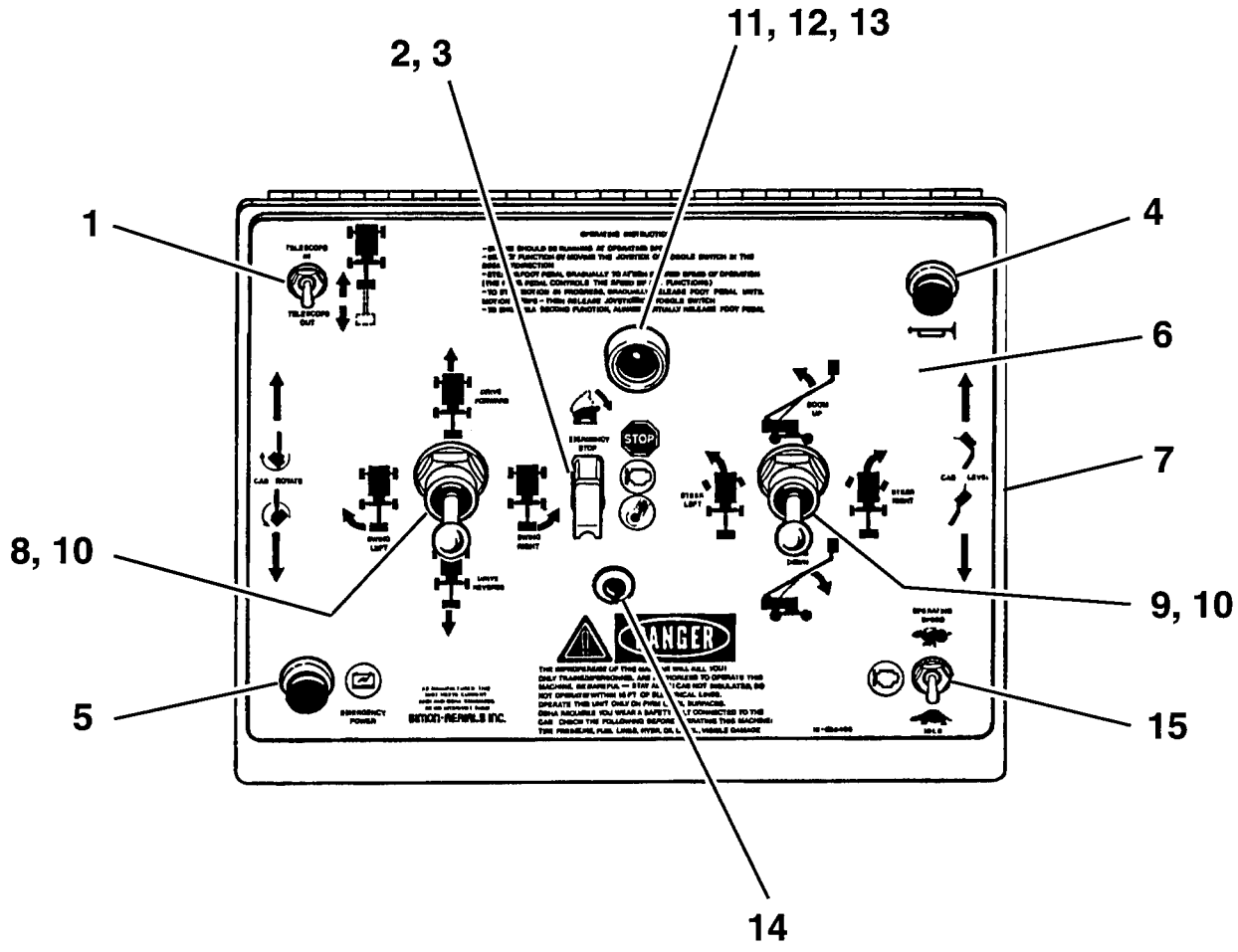
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ENGINE CONTROL BOX ASSEMBLY	CAA-206225-5

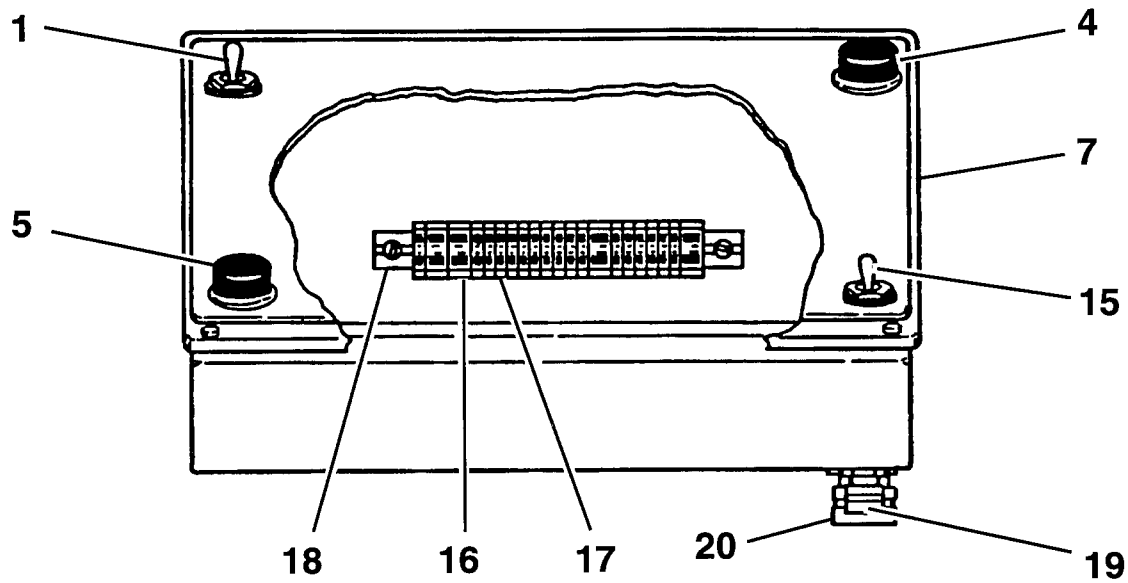
PARTS LIST

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



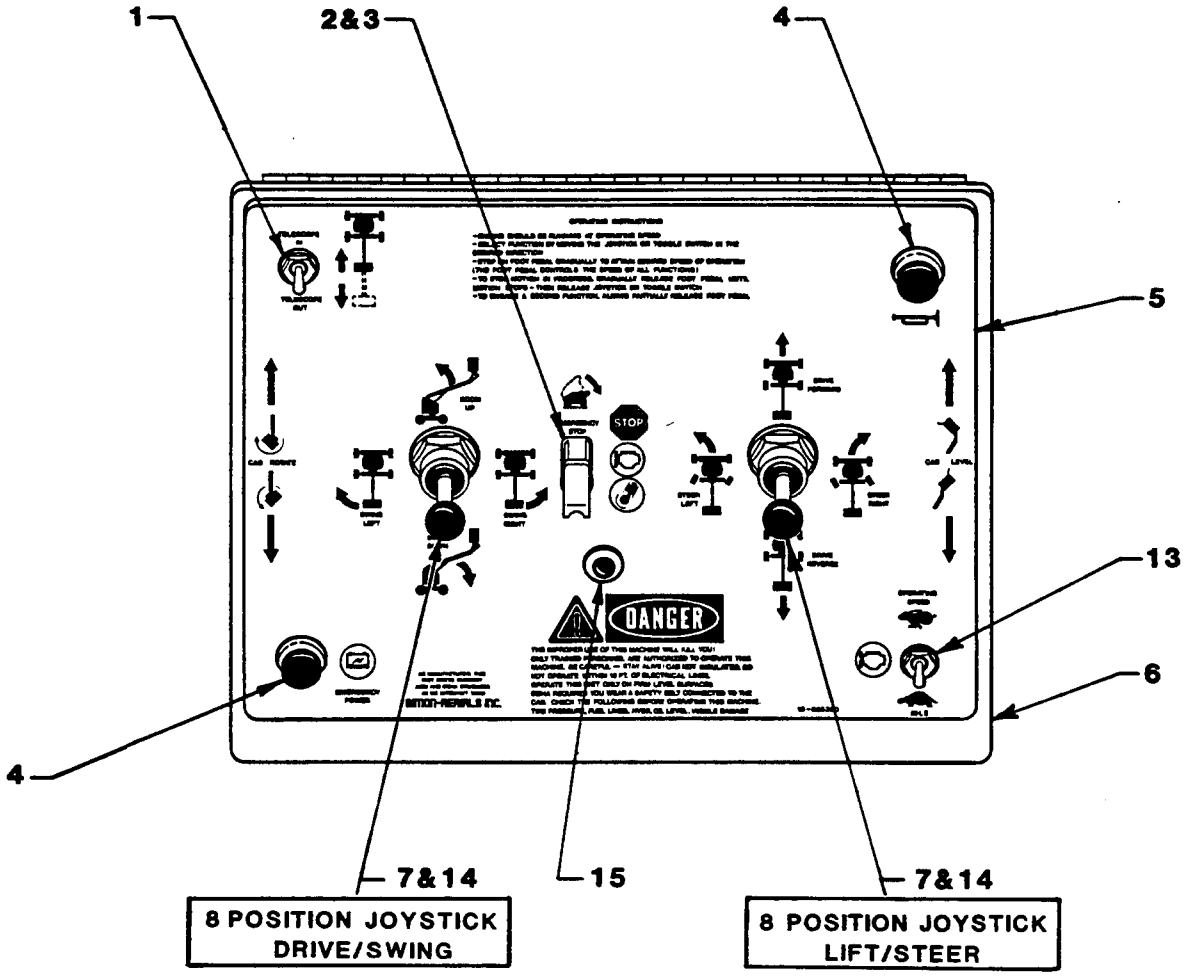


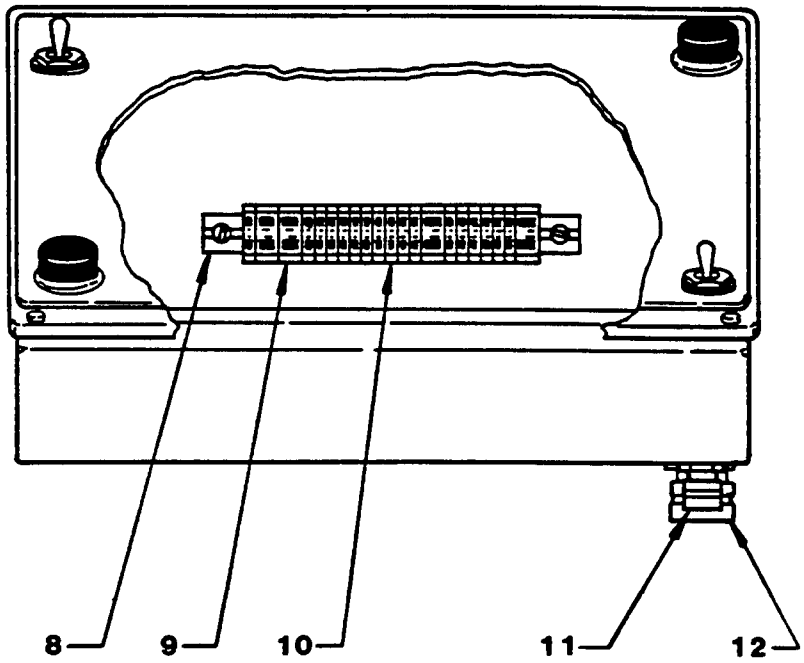
TITLE	PLATFORM CONTROL CONSOLE ASSEMBLY		
SIMON AERIALS INC. REV. 10/01/90	PART NO. 3508183	PLATE NO. C08.02	

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**



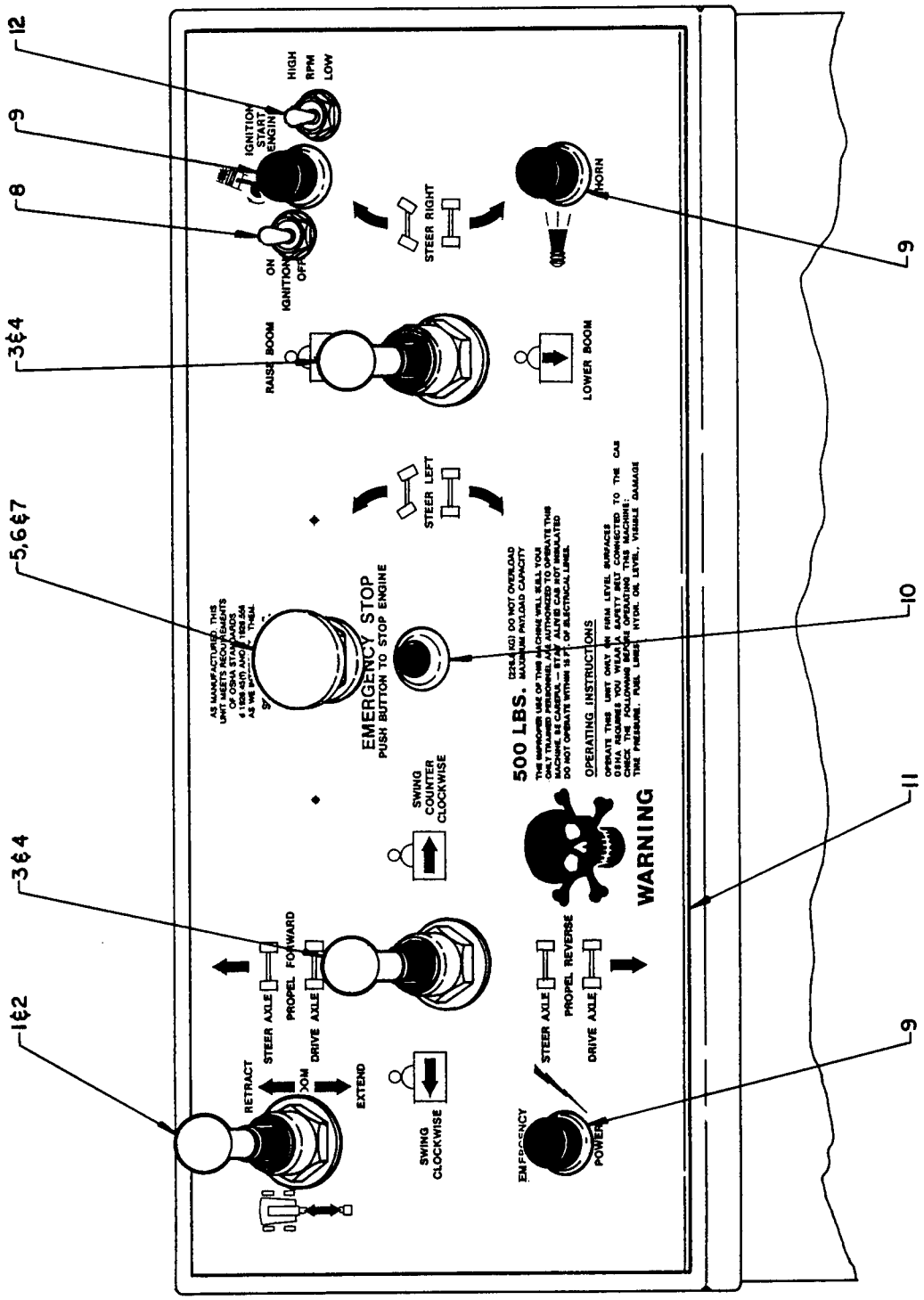


DESCRIPTION	PART NO.
PLATFORM CONTROL CONSOLE ASSEMBLY	**3510401**

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



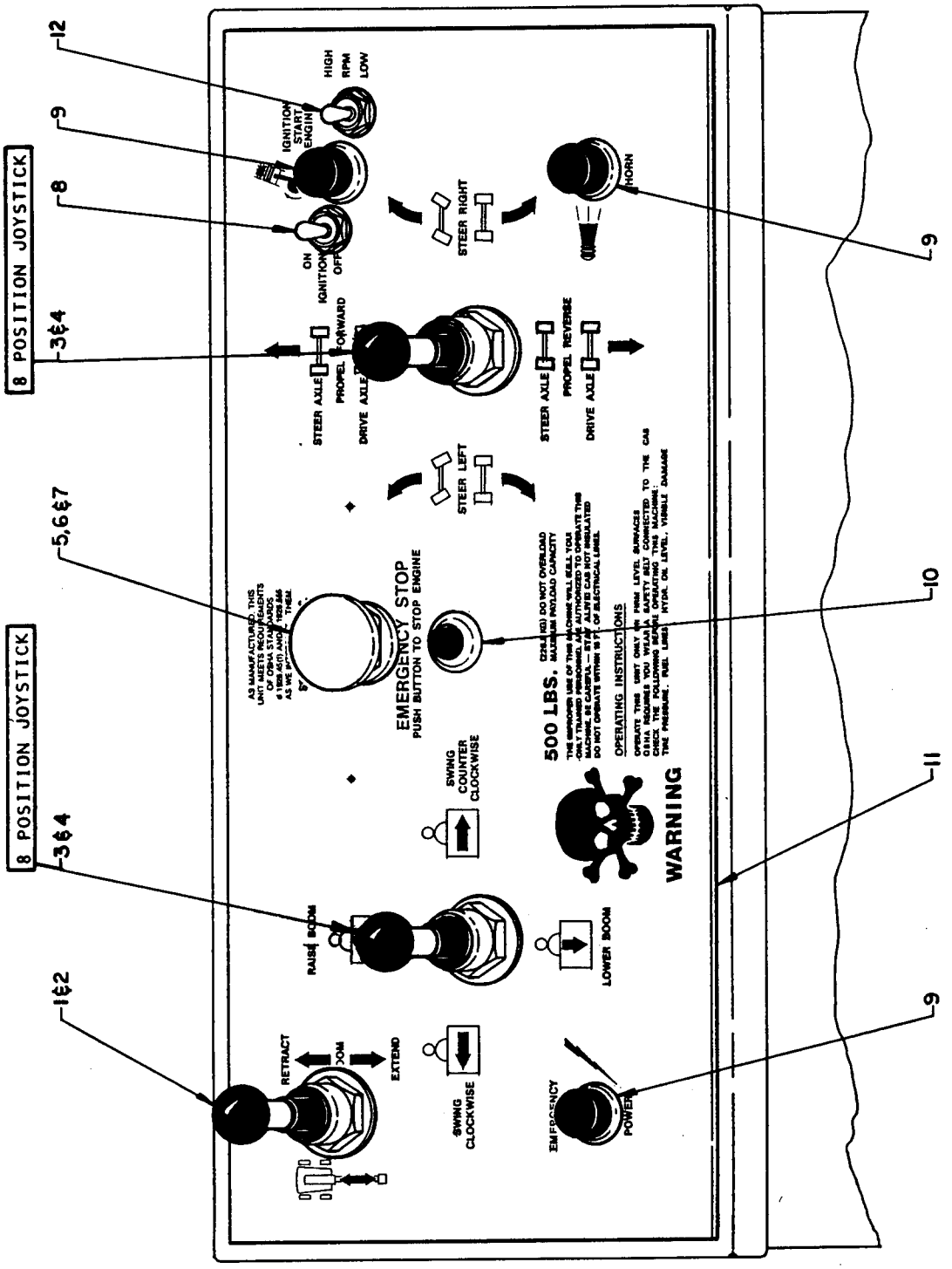
0884/0677

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

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	03-061600	E1.4	JOYSTICK (BOOM EXTEND)	1
2	03-025900		CONTACT BLOCK	2
3	03-061600	E1.4	JOYSTICK (LIFT, SWING; DRIVE,STEER)	2
4	03-025900		CONTACT BLOCK	4
5	03-064600		PUSH-PULL BUTTON	1
6	03-023100		PUSH-PULL OPERATOR (EMERGENCY STOP)	1
7	03-025000		CONTACT BLOCK, N.C.	1
8	03-020400		TOGGLE SWITCH (IGNITION)	1
9	03-020300		PUSH BUTTON (ENG.START,HORN,EMER.STOP)	3
10	03-022900		TROUBLE LIGHT (DIESEL OPTION)	1
11	10-024000		DECAL	1
12	03-020400		TOGGLE SWITCH (THROTTLE,DIESEL OPTION)	1

DESCRIPTION	PART NO.
PLATFORM CONTROL CONSOLE ASSEMBLY	CAA-207237-9



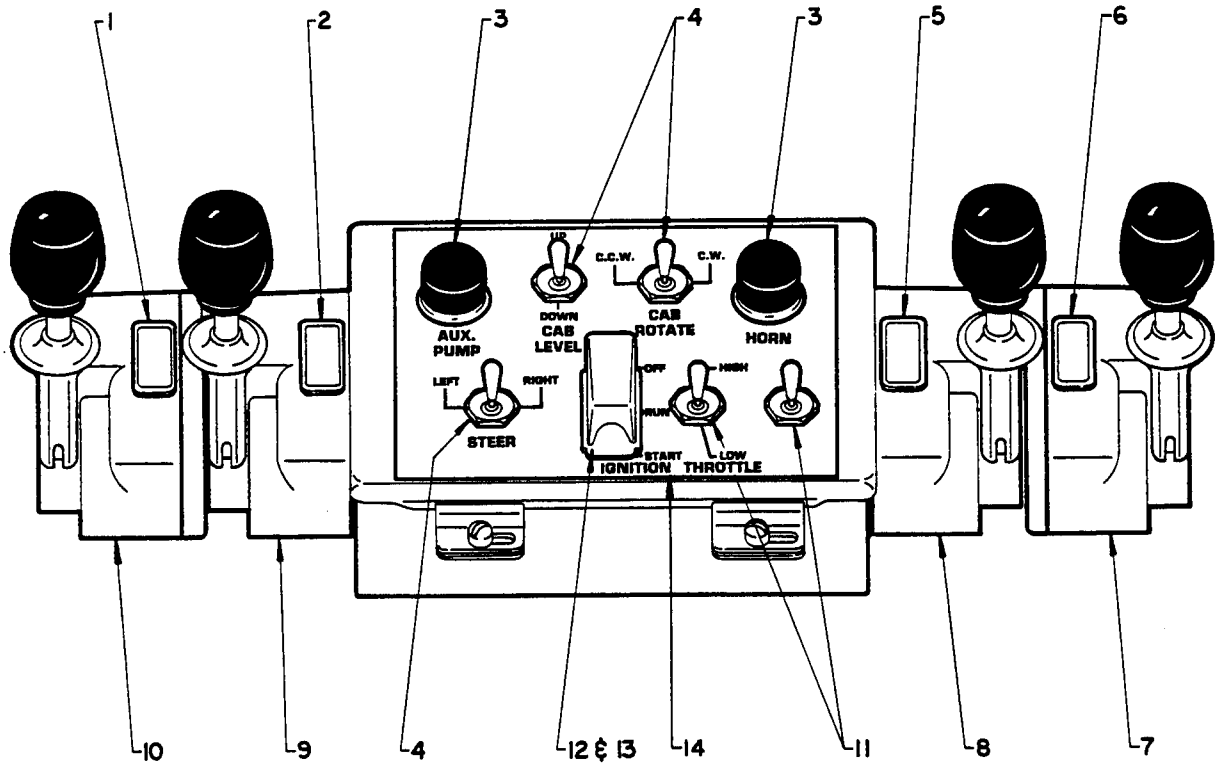
0984/0983

DESCRIPTION	PART NO.
PLATFORM CONTROL CONSOLE ASSEMBLY	CAA-207237-9

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



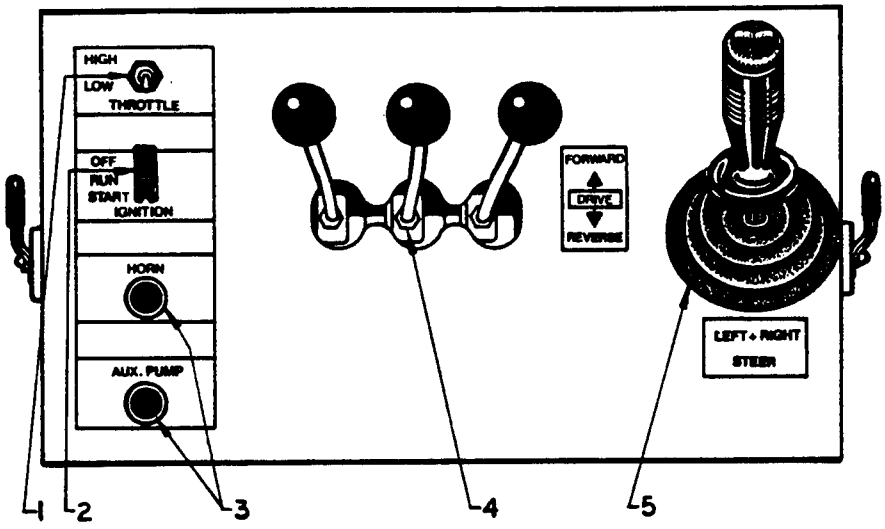
0885/0885

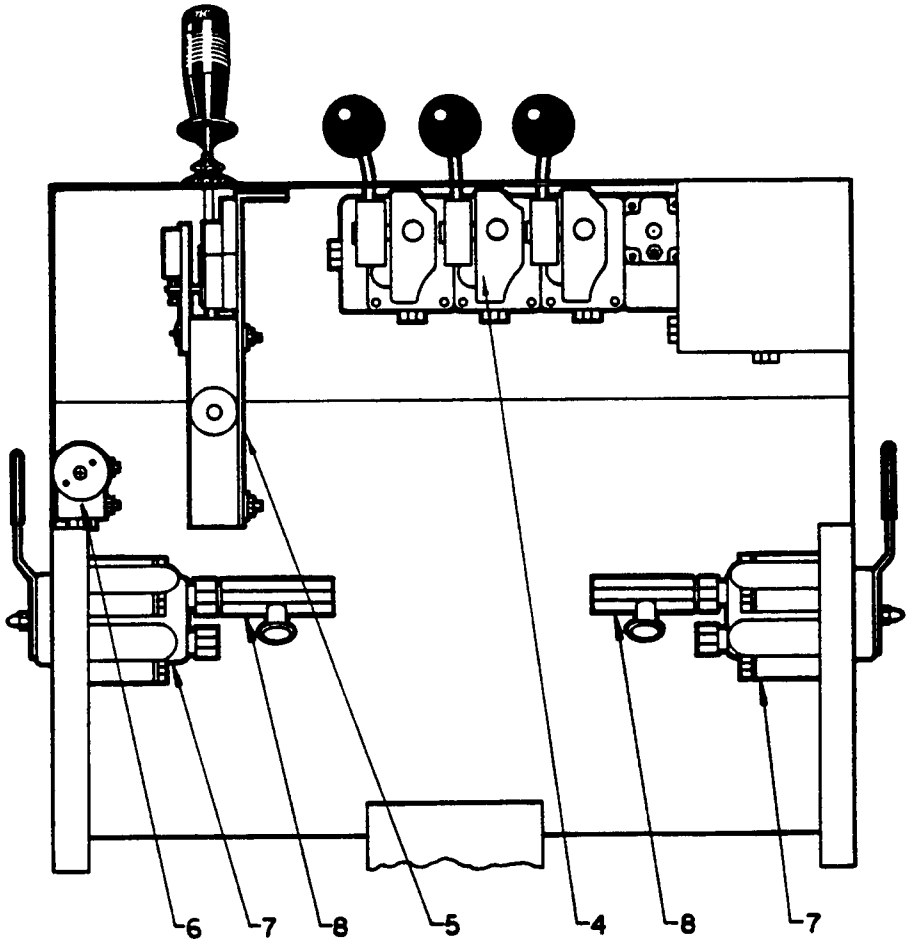
DESCRIPTION	PART NO.
CONTROL CONSOLE (PROPORTIONAL)	CAA-208491-2

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	03-021400		TOGGLE SWITCH, THROTTLE	1
2	03-032600		TOGGLE SWITCH, IGNITION/ENG. START	1
3	03-020300		PUSH BUTTON, HORN/EMERGENCY PUMP	2
4	01-061700		PLATFORM VALVE BANK	1
5	3510034	D18.1	DRIVE STEER CONTROL VALVE	1
6	01-034400		2-WAY SOLENOID VALVE	1
7	01-008000	D14.1	4-WAY MANUAL CONTROL VALVE	2
8	01-018900		NEEDLE VALVE, #6 SAE PORTS	2

DESCRIPTION	PART NO.
CONTROL CONSOLE (FULL HYDRAULIC)	





REAR VIEW OF CONTROL CONSOLE

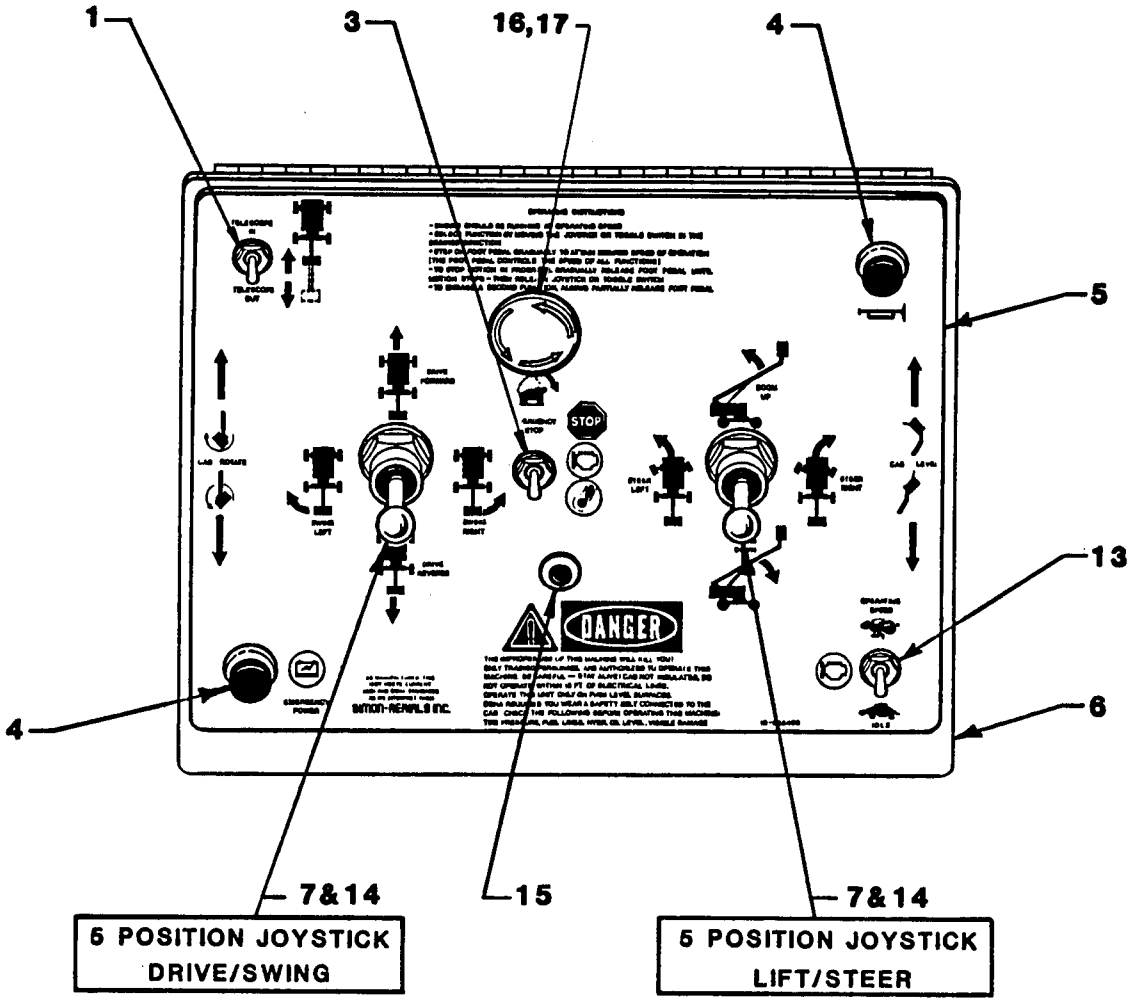
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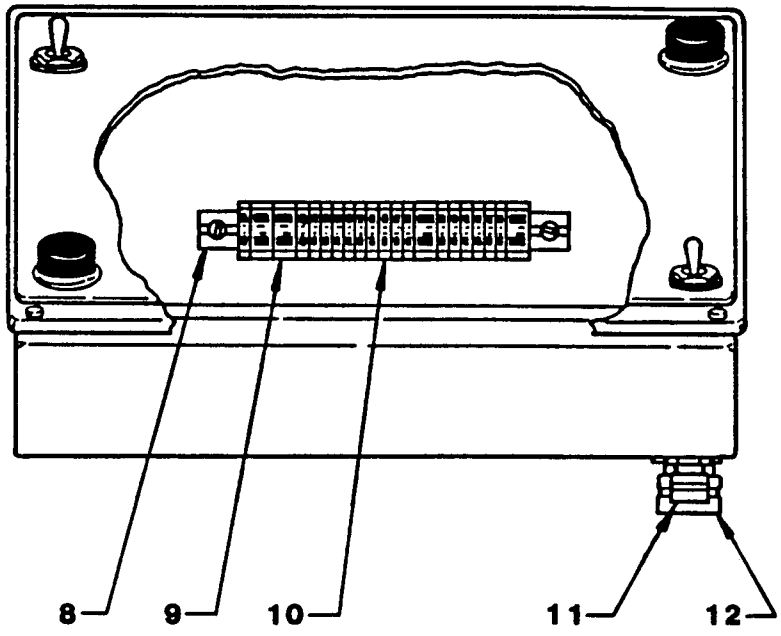
DESCRIPTION	PART NO.
CONTROL CONSOLE (FULL HYDRAULIC)	

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

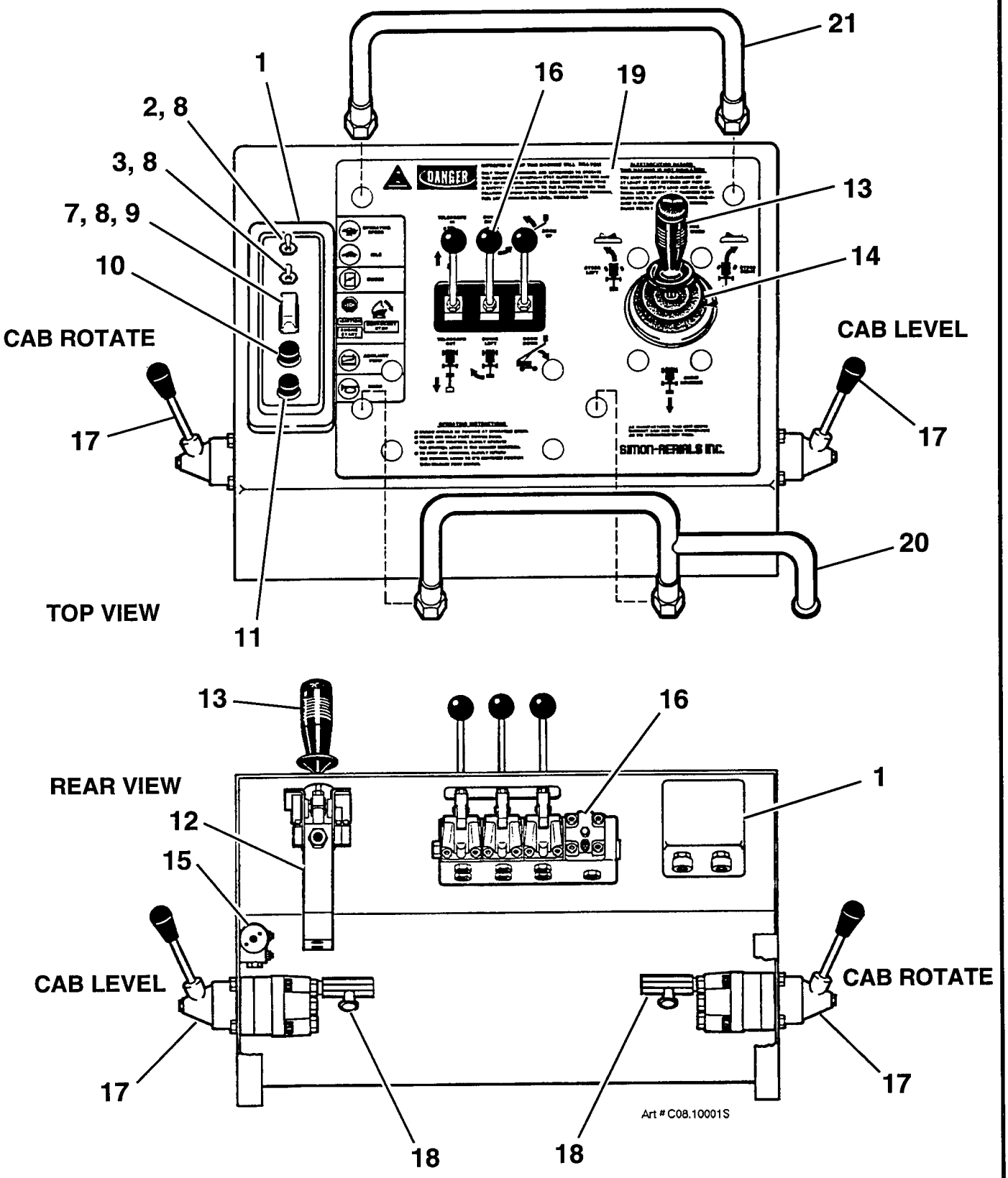
DESCRIPTION	PART NO.
PLATFORM CONTROL CONSOLE	

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.			PART NO.
C08.10	**SIMON AERIALS INC.**	REV. 06 JUN., 1995	



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

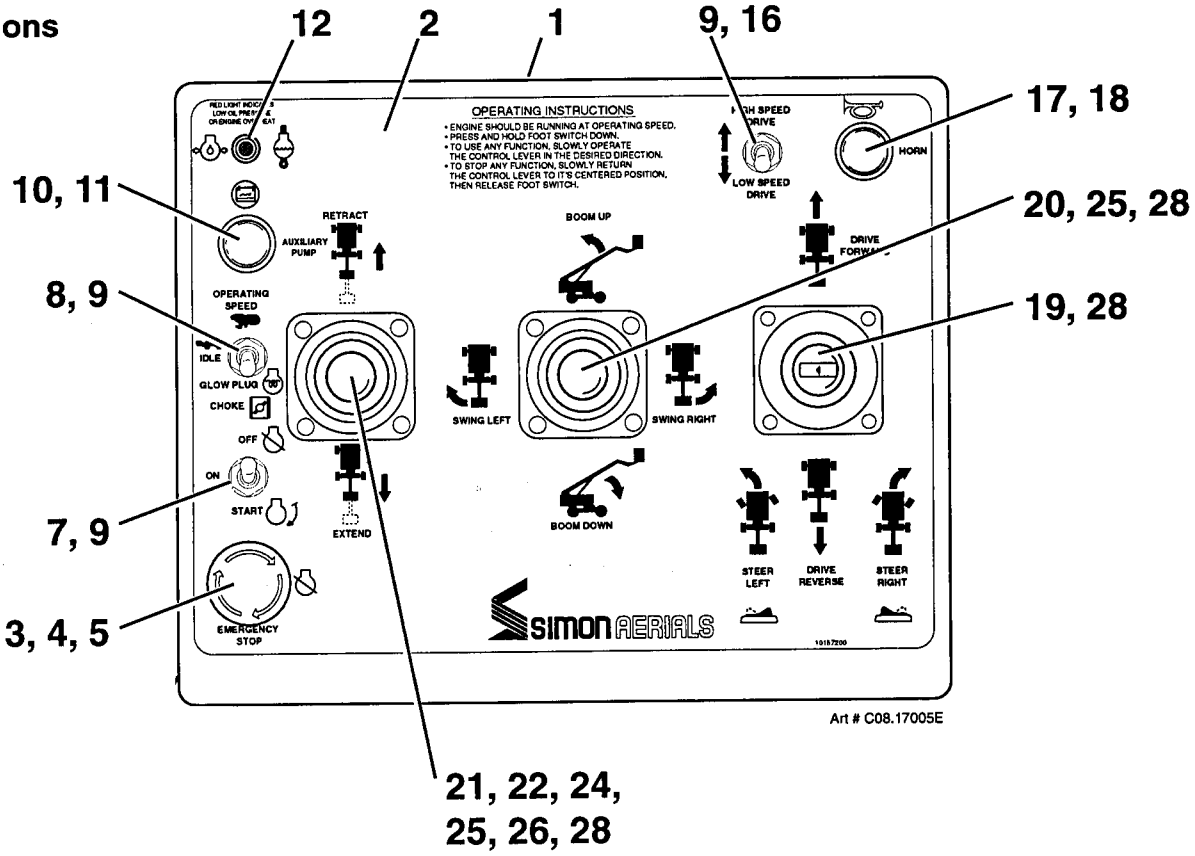
PARTS LIST

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)

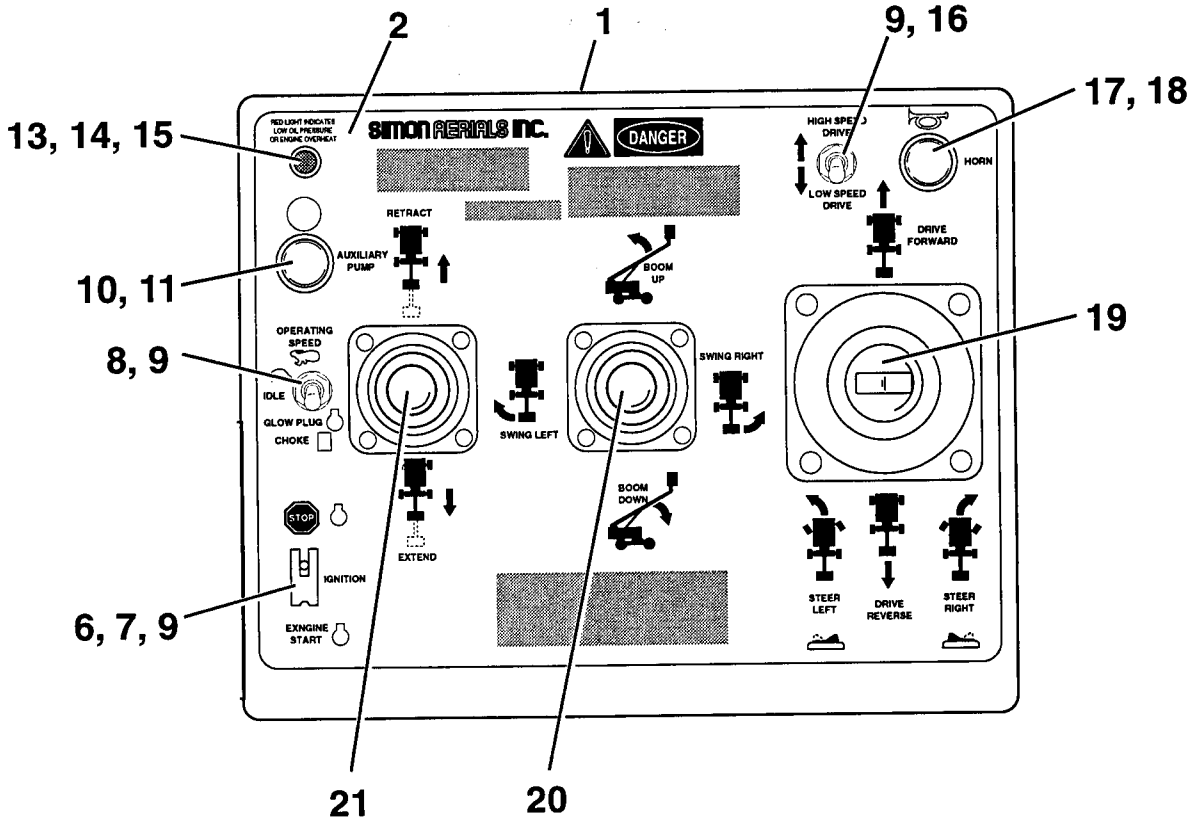
PLATE NO.	SIMON AERIALS INC.	PART NO.
C08.17	NEW 02 DEC., 1994	

Later Versions



Art # C08.17005E

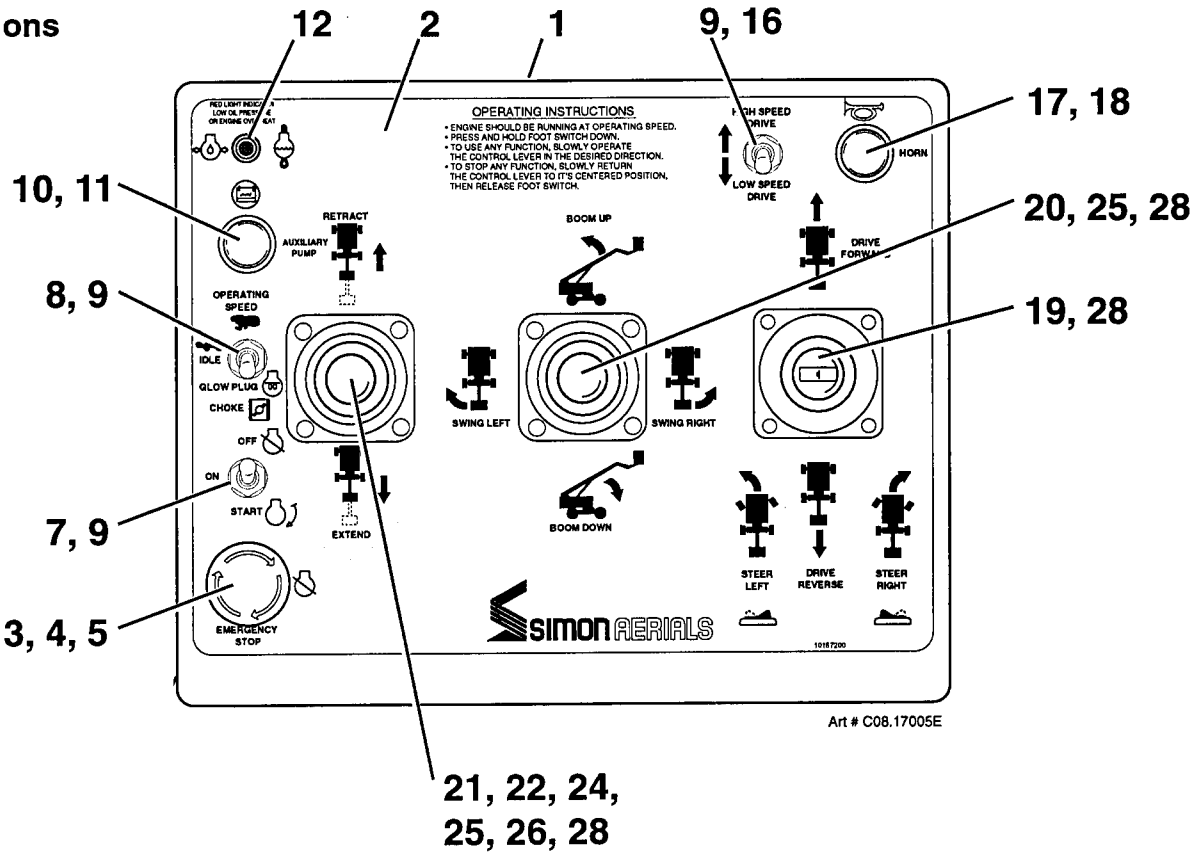
Earlier Versions



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

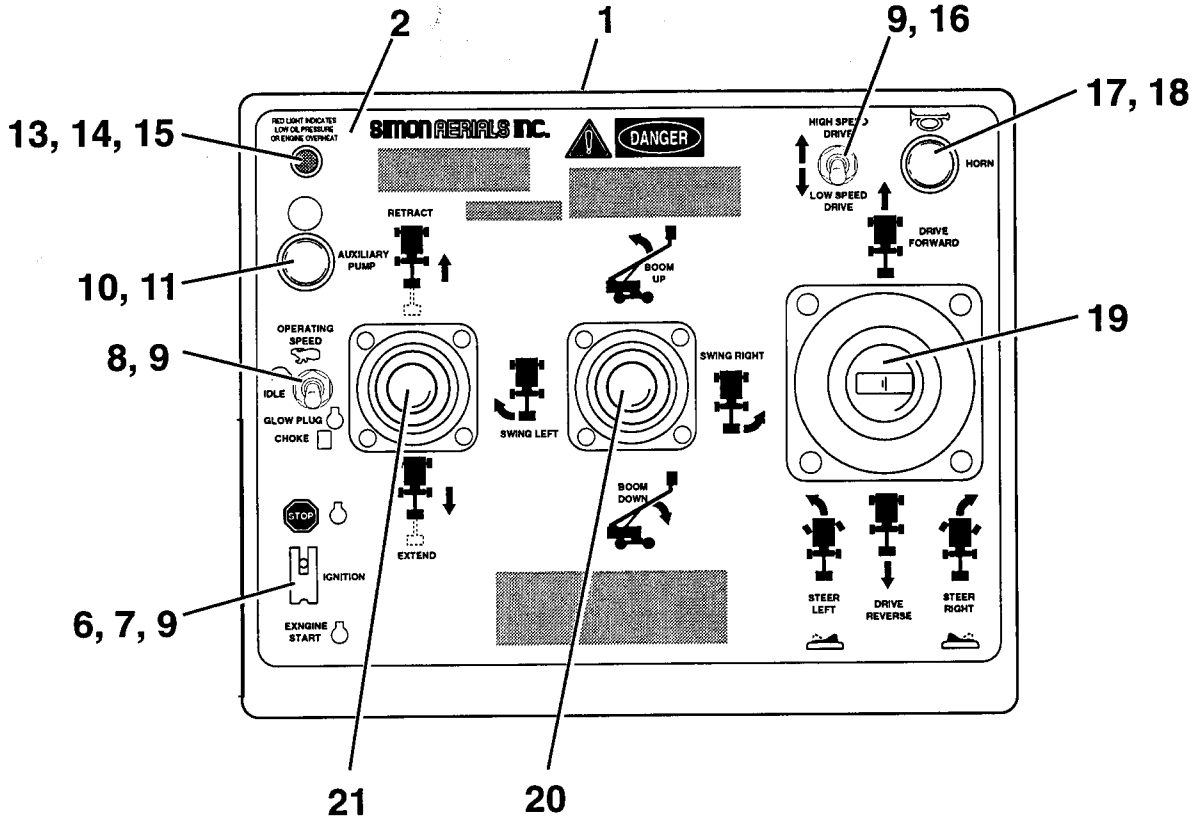
SIMON AERIALS INC.	NEW 02 DEC., 1994	PART NO.	PLATE NO. C08.17

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

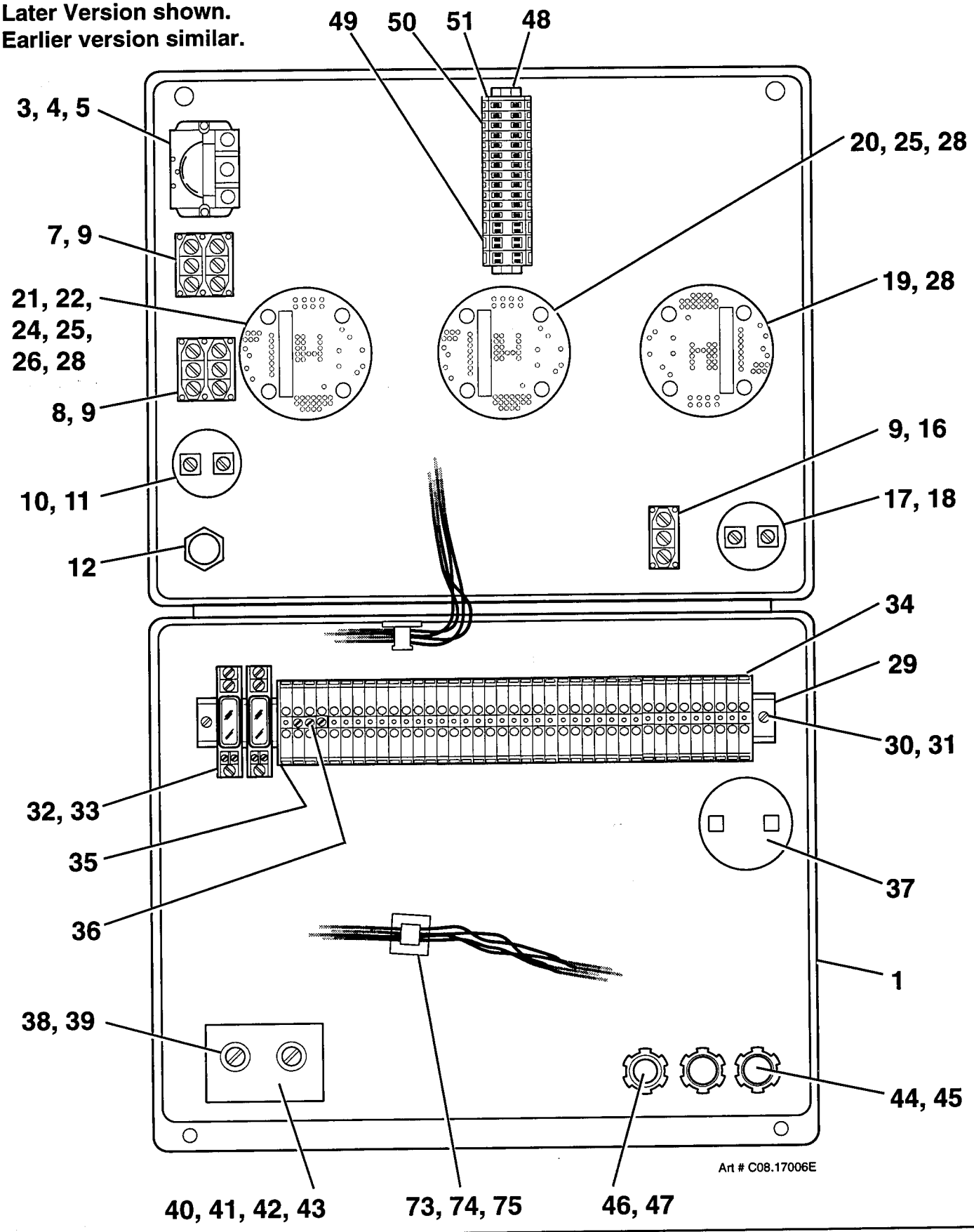
PARTS LIST

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

Later Version shown.
Earlier version similar.



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

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

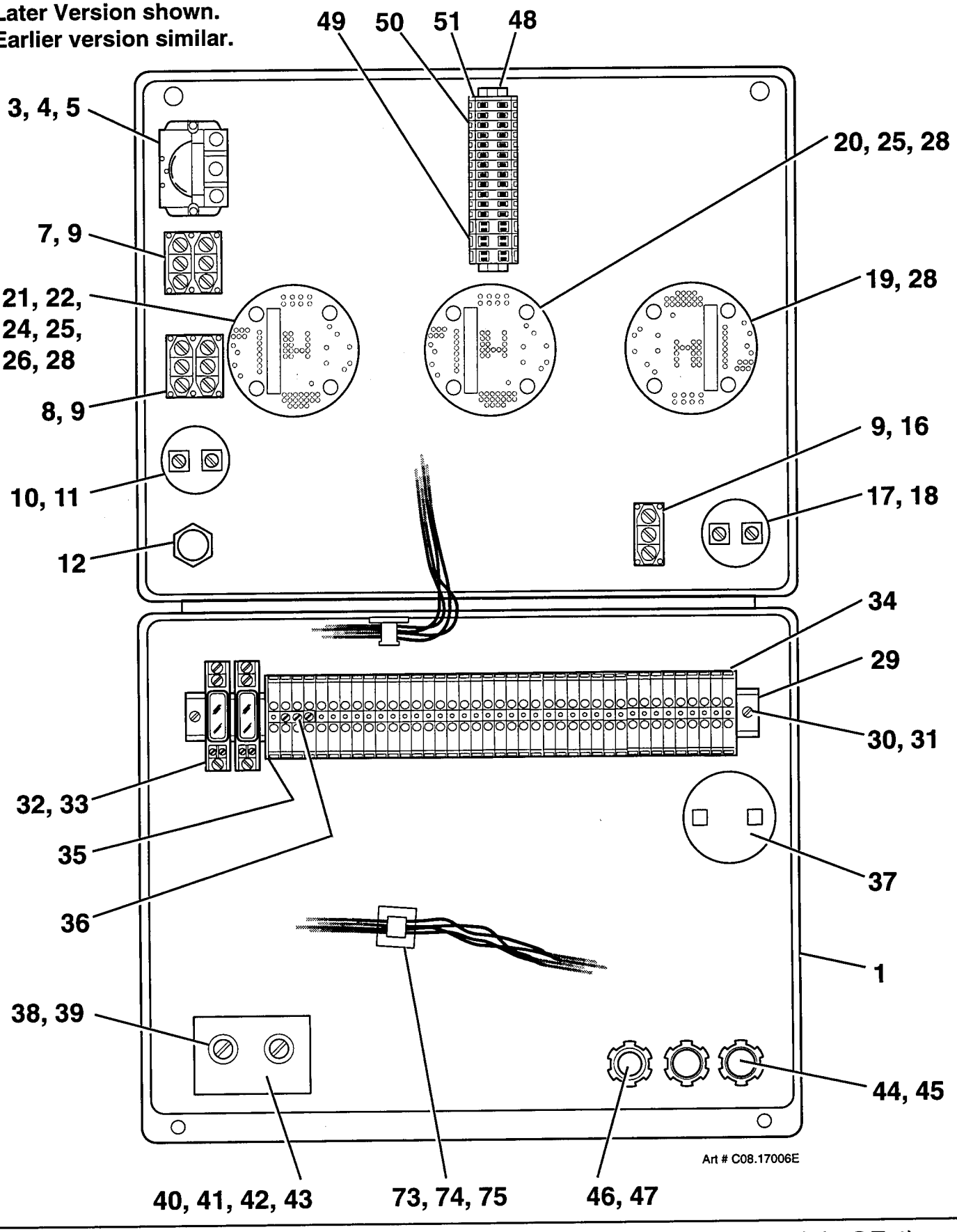
PARTS LIST

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.

Later Version shown.
Earlier version similar.



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

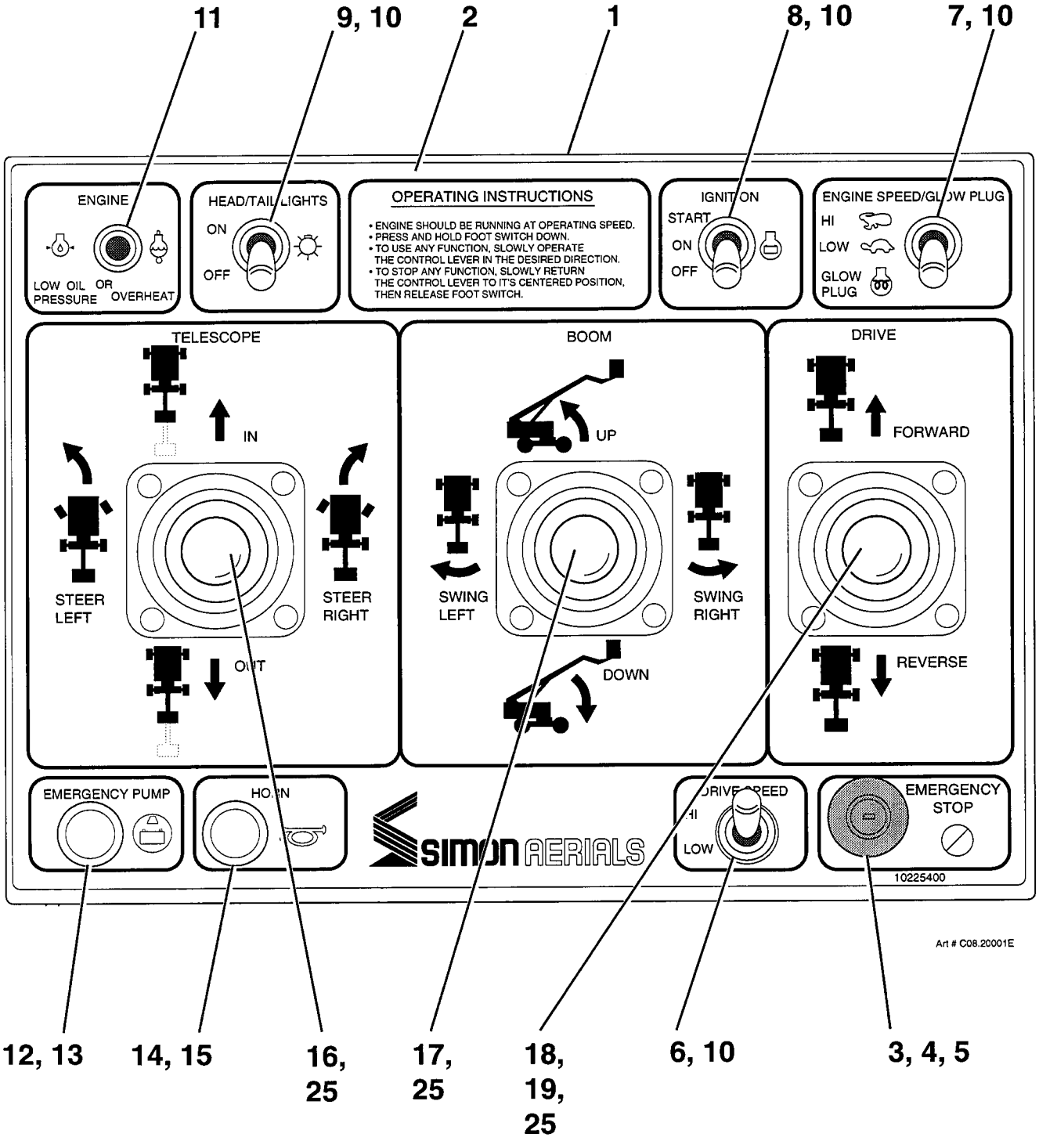
SIMON AERIALS INC. NEW 02 DEC., 1994	PART NO.	PLATE NO. C08.17

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	2330010		BOX, PLATFORM CONTROL	1
2	10-225400		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)	1
6	03-020400		SWITCH, TOGGLE (Drive speed)	
			(2 position, maintained contact, single pole, single throw)	1
7	03-032600		SWITCH, TOGGLE (Engine speed) (3 position, 2 maintained	
			and 1 momentary contact, double pole, double throw)	1
8	03-032600		SWITCH, TOGGLE (Engine start) (3 position, 2 maintained	
			and 1 momentary contact, double pole, double throw)	1
9	03-020400		SWITCH, TOGGLE (Head/ Tail lights)	
			(2 position, maintained contact, single pole, single throw)	1
10	03-497900		SEAL, PANEL	3
11	03-706400		DIODE, LIGHT-EMITTING (L.E.D.) (Red, 12 Volt)	1
12	03-020300		SWITCH, PUSH BUTTON (Emergency pump)	1
13	03-020302		CAP, PUSH BUTTON SWITCH (Red)	1
14	03-020300		SWITCH, PUSH BUTTON (Horn)	1
15	03-020301		CAP, PUSH BUTTON SWITCH (Black)	1
16			CONTROLLER, DUAL AXIS	
	03-491100	E01.10	(Identified on nameplate as "MJ **5122**-1020")	1
17			CONTROLLER, DUAL AXIS	
	03-710300	E01.10	(Identified on nameplate as "MJ **5123**-1020")	1
18	03-491000	E01.09	CONTROLLER, SINGLE AXIS (Drive)	
			(Identified on nameplate as "MJ **4121**-1020")	1
19	03-493600		CARD, SWITCH (with mounting hardware)	
			(Mounts to Drive Controller in this application.)	1
20	03-702100		RAMP KIT, DRIVE	1
21	03-494800		RAMP CARD	1
22	03-494900		DRIVE BOARD (Mount to Drive and Swing Controllers	
			in this application.)	2
23	03-495300		CABLE, JUMPER	1
24	03-702200		MOUNTING HARDWARE, DRIVE RAMP KIT	1
25	03-499500		COVER KIT, CONTROLLER	
			(includes one underside boot and clamp)	3

TITLE PLATFORM CONTROL BOX, MP ELEC. PROP. (SPECIAL) (PLATE 1 OF 3)

PLATE NO. C08.20 | **SIMON AERIALS INC.** NEW 22 NOV., 1994 | PART NO. 3537870



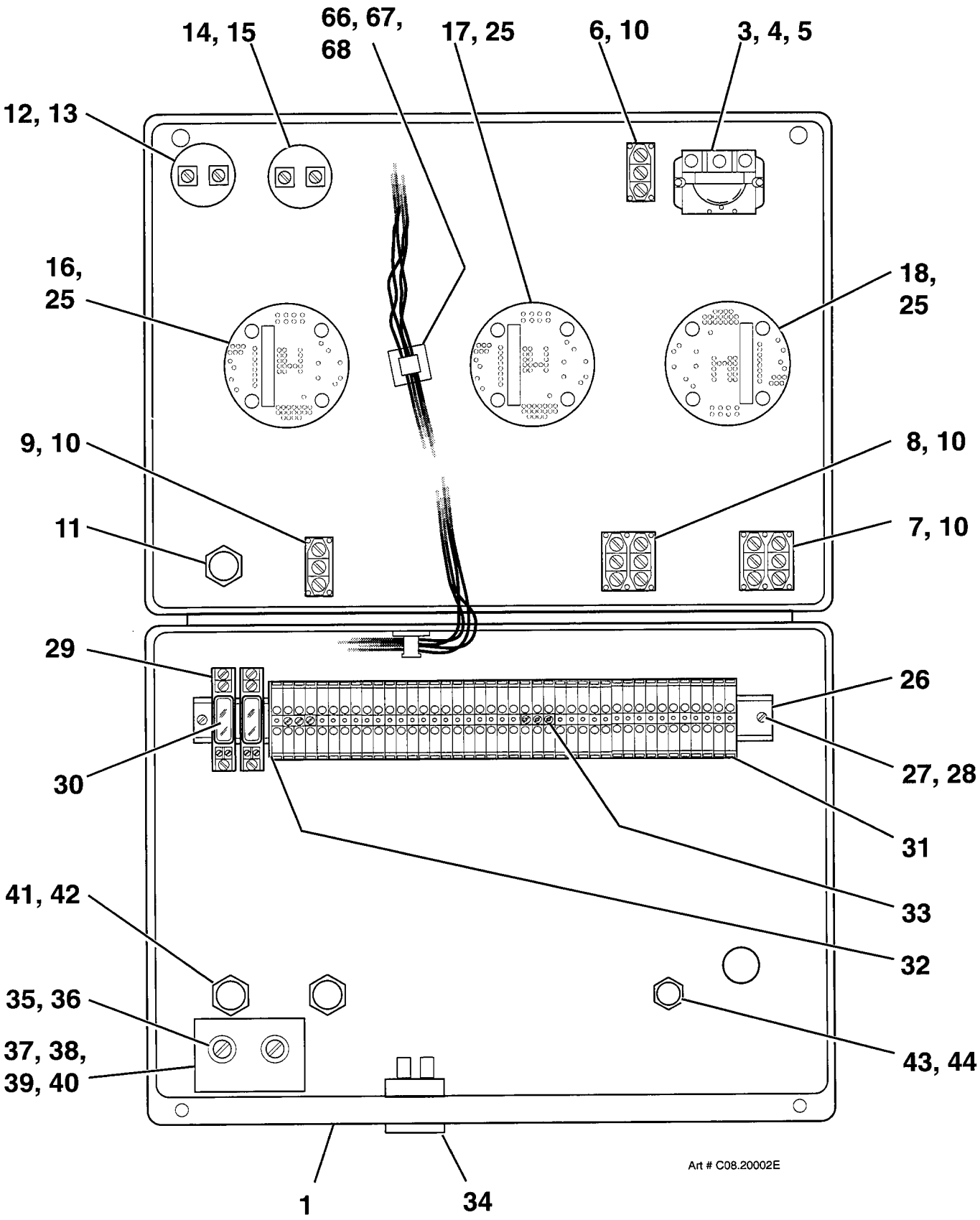
TITLE	PLATFORM CONTROL BOX, MP ELEC. PROP. (SPECIAL) (PLATE 1 OF 3)		
SIMON AERIALS INC.	NEW 22 NOV., 1994	PART NO. 3537870	PLATE NO. C08.20

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
26	03-051700		RAIL, TERMINAL (1 M [39.37"] long section) (12" [305 mm] long piece needed for this application)	1
27	07-011800		SCREW, SHEET METAL PAN HEAD (#6 x 3/4")	2
28	07-050007		NUT, STOP (#6-32, Grade 5)	2
29	03-051600	-	SOCKET, RELAY (Single pole, snap mount)	2
30	03-051500		RELAY, PLUG IN (12 Volt DC, single pole)	2
31	03-066200		BLOCK, TERMINAL (25 Amp, for #12 Gauge wire)	41
32	03-066100		PLATE, TERMINAL BLOCK END	1
33	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.
34	03-501800		ALARM (Dual tone)	1
35	03-027231		POTENTIOMETER (10 K Ohm)	2
36	03-044900		LOCK, SHAFT	2
37			BRACKET, POTENTIOMETER MOUNTING	1
38	07-011800		SCREW, SHEET METAL PAN HEAD (#6 x 3/4")	2
39	07-050007		NUT, STOP (#6-32, Grade 5)	2
40	07-090063		WASHER, EXTERNAL TOOTH (#6)	2
41	03-063200		GRIP, CORD (3/4", with .69" to .75" seal)	2
42	03-055600		NUT, CONDUIT (3/4")	2
43	03-041000		GRIP, CORD (1/2", with .38" to .44" seal)	1
44	03-055500		NUT, CONDUIT (1/2")	1

TITLE PLATFORM CONTROL BOX, MP ELEC. PROP. (SPECIAL) (PLATE 2 OF 3)

PLATE NO. C08.20 | **SIMON AERIALS INC.** NEW 22 NOV., 1994 | PART NO. 3537870



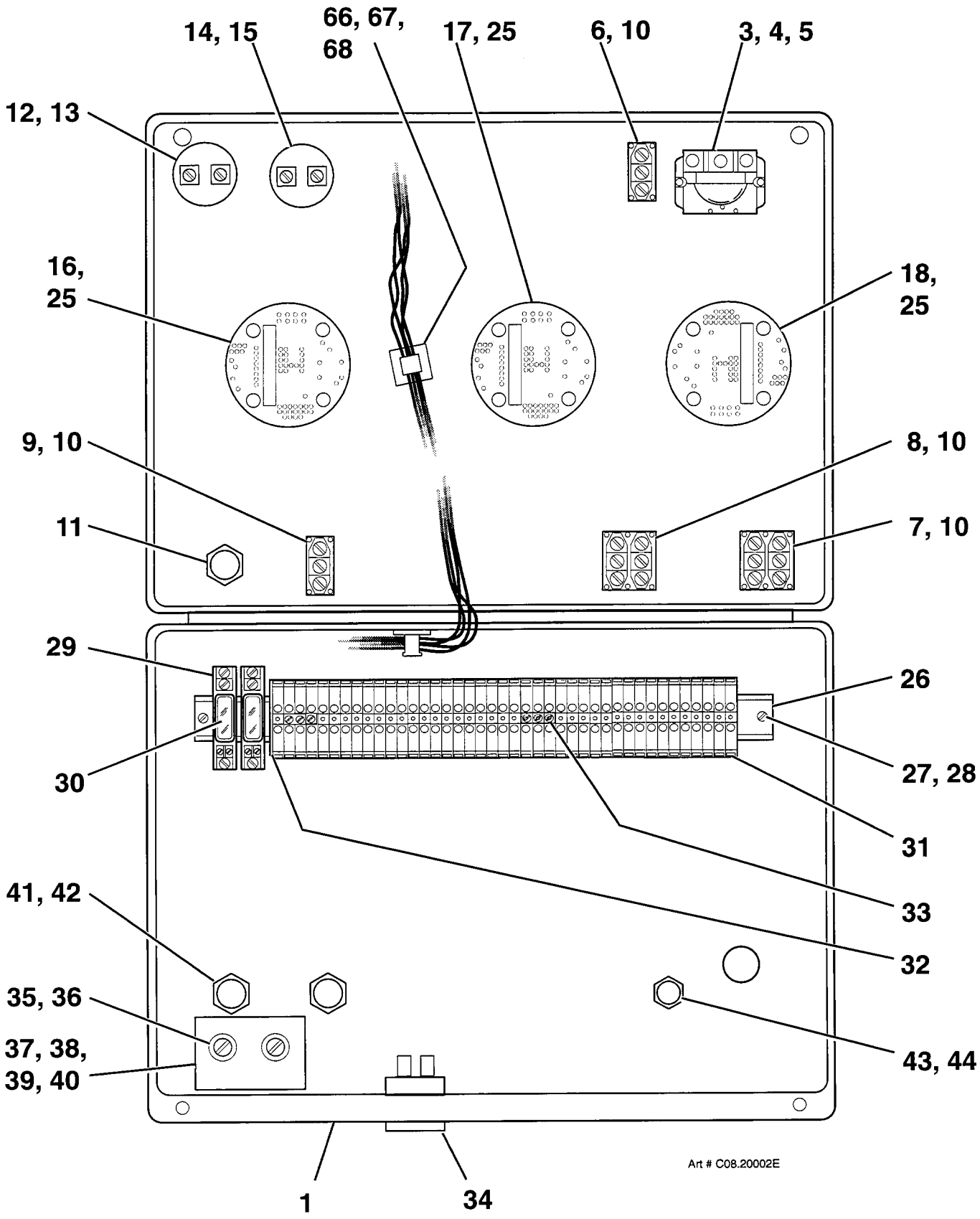
TITLE	PLATFORM CONTROL BOX, MP ELEC. PROP. (SPECIAL) (PLATE 2 OF 3)		
SIMON AERIALS INC.	NEW 22 NOV., 1994	PART NO. 3537870	PLATE NO. C08.20

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:	
45	03-488800		CABLE, ELECTRICAL (Type F 569, 19 conductor, #16 AWG) (Bulk item, order as needed)	
46	03-446100		CABLE, ELECTRICAL (10 conductor, #18 AWG) (Bulk item, order as needed)	
47	03-088300		WIRE, ELECTRICAL (#14 AWG, Blue, stranded) (Bulk item)	
48	03-087500		WIRE, ELECTRICAL (#16 AWG, Blue, stranded) (Bulk item)	
49	03-087600		WIRE, ELECTRICAL (#16 AWG, Black, stranded) (Bulk item)	
50	03-403800		DIODE	
51	03-092200		COUPLING, INSULATED (Male, blue nylon, #14-16 AWG)	
52	03-092300		COUPLING, INSULATED (Female, blue nylon, #14-16 AWG)	
53	03-096000		TERMINAL, END (Blue, "piggyback") (#14-16 AWG)	
54	03-094600		TERMINAL, RING (Blue, #14-16 AWG, #10 stud)	
55	03-091200		TERMINAL, SPADE (Blue, #14-16 AWG, #6 stud)	
56	03-098400		TERMINAL, END (Blue, #14-16 AWG)	
57	03-099000		CONNECTOR, BUTT (Blue, #14-16 AWG)	
58	03-098100		TERMINAL, INSULATED (Slip-on, yellow, #10-12 AWG)	
59	03-095500		TERMINAL, RING (Yellow, #10 AWG, #6 stud)	
60	03-095700		TERMINAL, RING (Yellow, #10-12 AWG, 3/8" stud)	
61	03-099100		CONNECTOR, BUTT (Yellow, #10-12 AWG)	
62	03-095900		TERMINAL, RING (Red, #8 stud)	
63	03-066800		LOOM, WIRE (1/2")	
64	03-066900		LOOM, WIRE (3/4")	
65	03-405200		TUBING, HEAT SHRINK (Clear, 3/16")	
66	03-439000		TIE, CABLE (3-5/8" [92 mm] long)	
67	03-064000		TIE, CABLE (7.4" [188 mm] long)	
68	03-064100		MOUNT, CABLE TIE (Adhesive backed)	

TITLE PLATFORM CONTROL BOX, MP ELEC. PROP. (SPECIAL) (PLATE 3 OF 3)

PLATE NO. C08.20 | **SIMON AERIALS INC.** NEW 22 NOV., 1994 | PART NO. 3537870



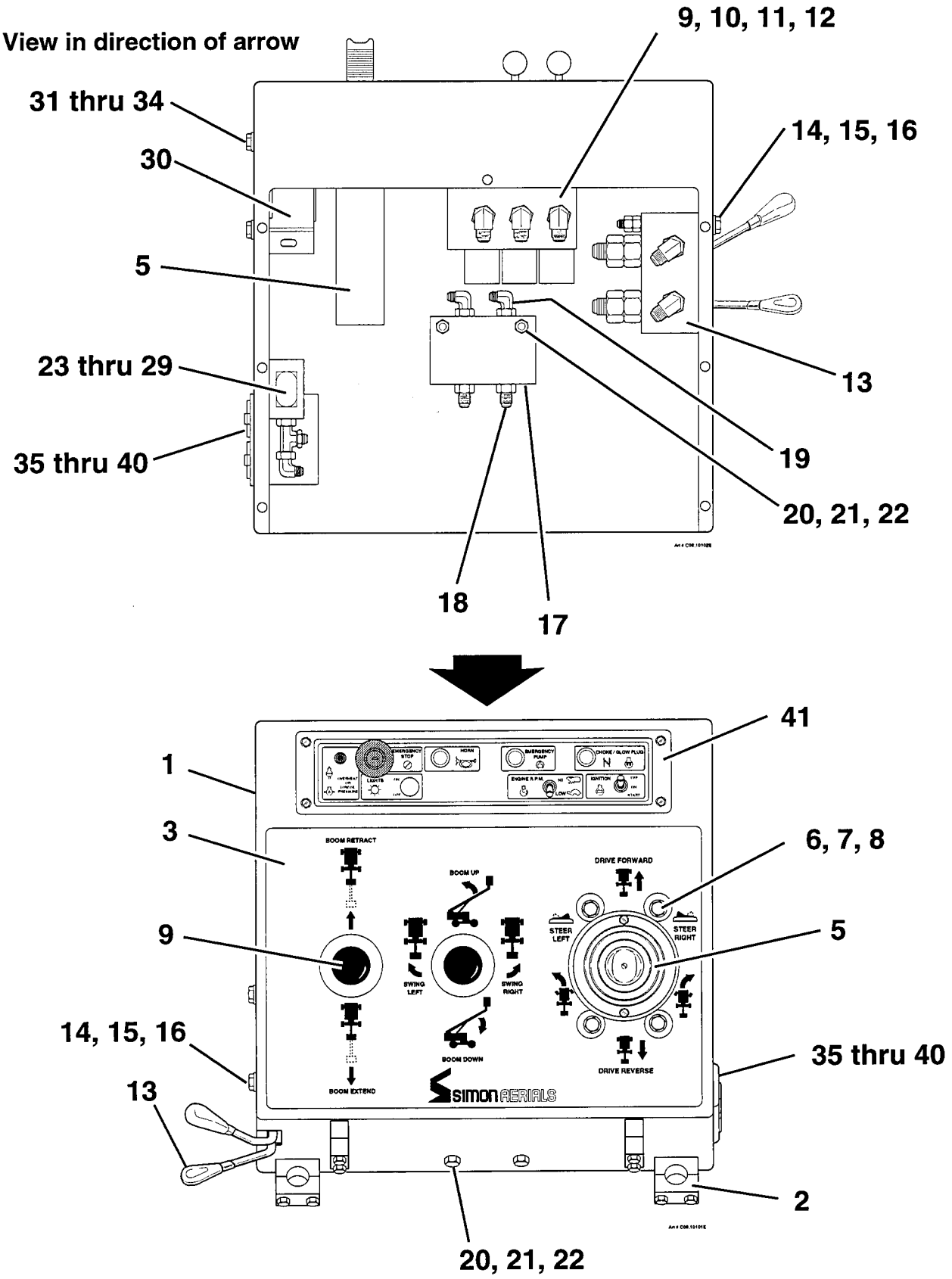
TITLE	PLATFORM CONTROL BOX, MP ELEC. PROP. (SPECIAL) (PLATE 3 OF 3)		
SIMON AERIALS INC.	NEW 22 NOV., 1994	PART NO. 3537870	PLATE NO. C08.20

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)

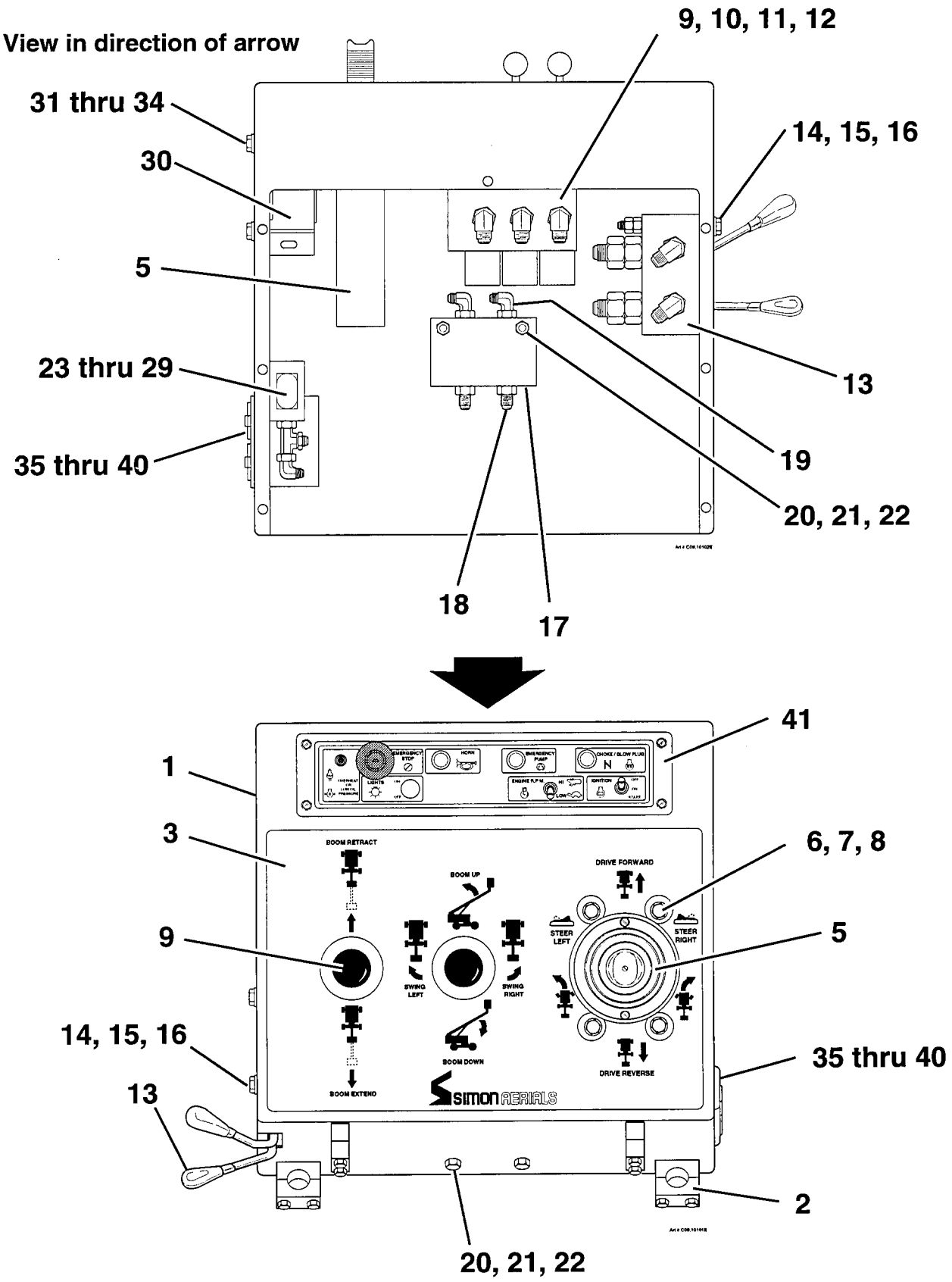
SIMON AERIALS INC. REV. 15 SEP., 1995	PART NO.	PLATE NO. C08.21

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)

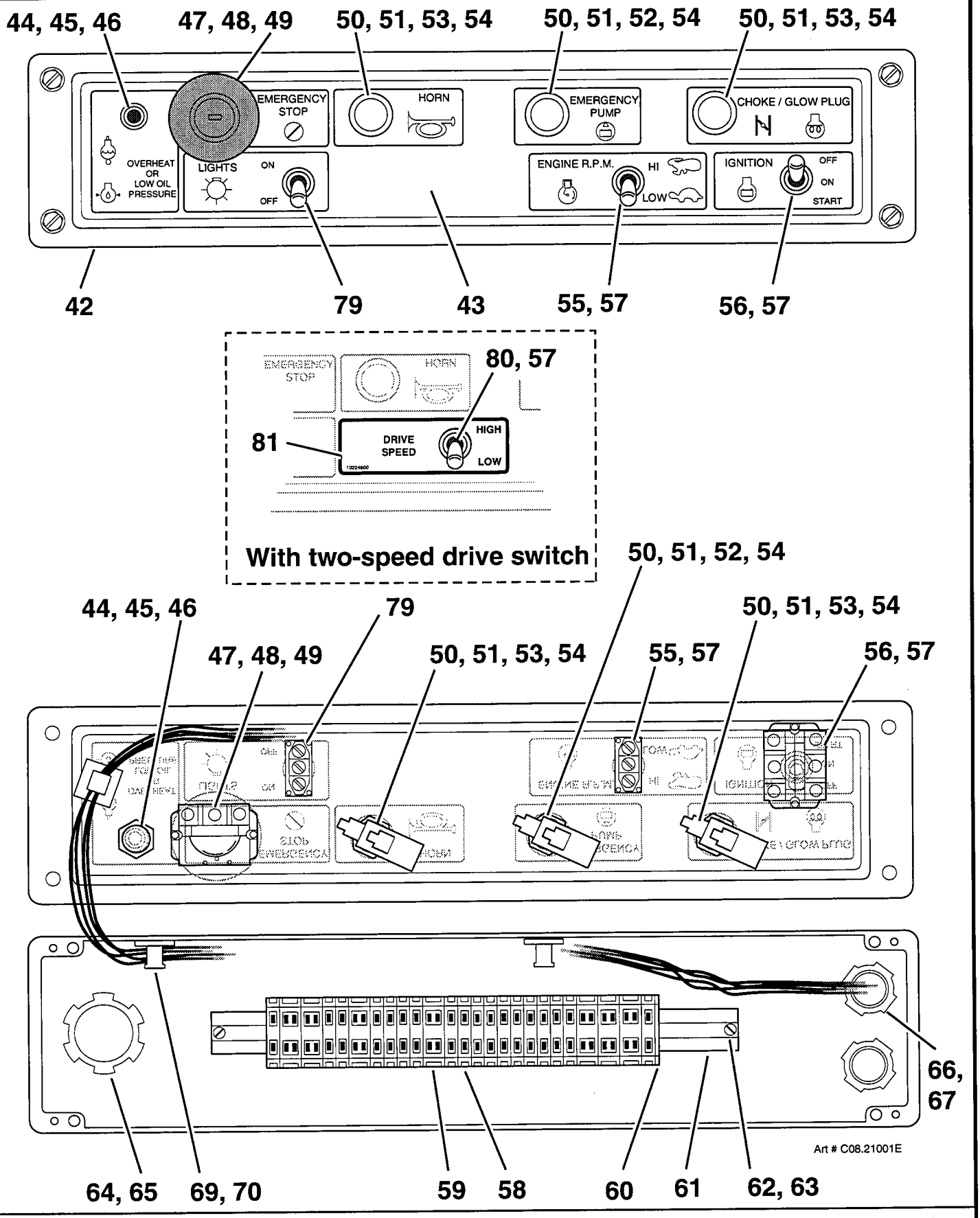
SIMON AERIALS INC. REV. 15 SEP., 1995	PART NO.	PLATE NO. C08.21

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



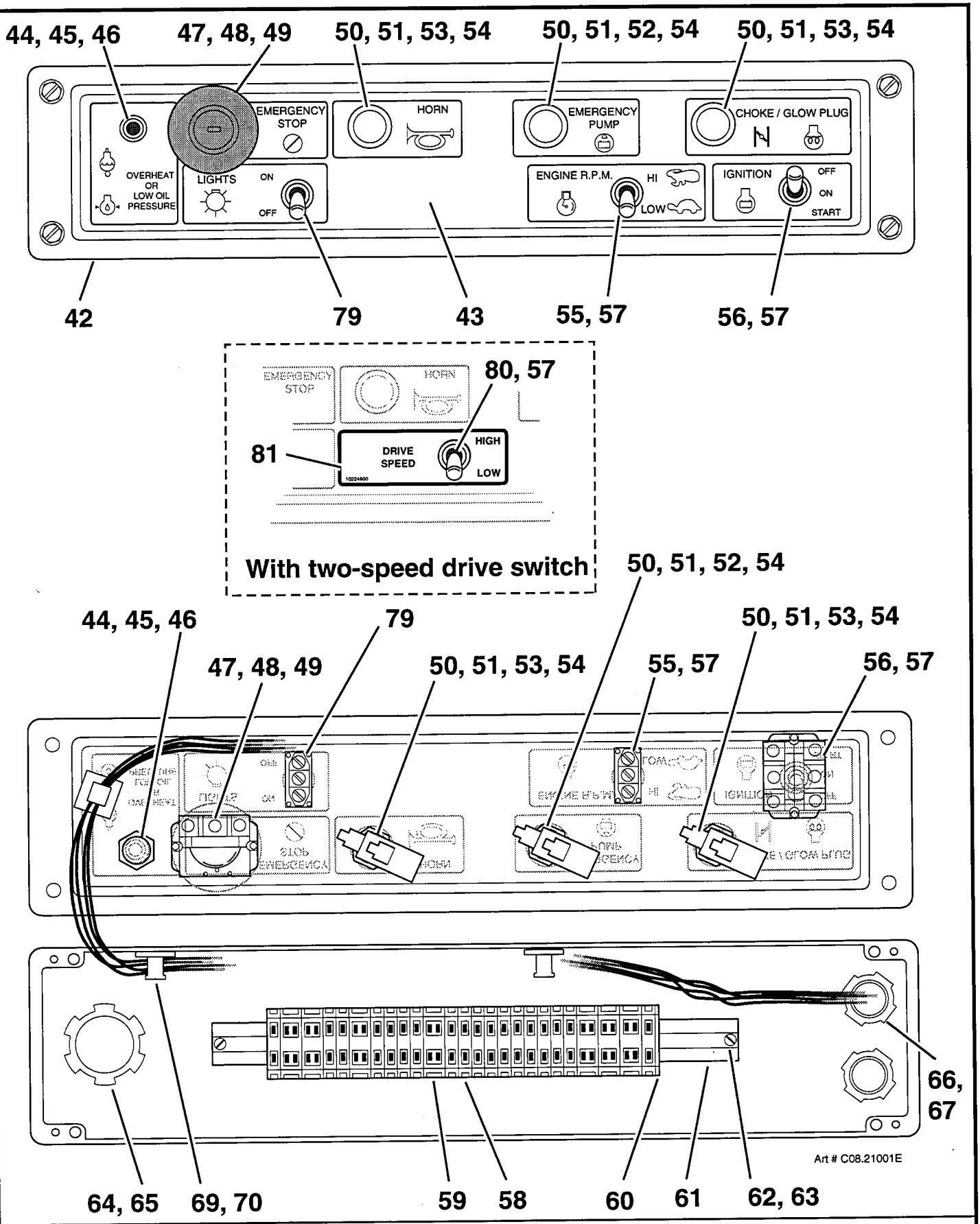
TITLE PLATFORM CONSOLE ASSEMBLY, MP FULL HYDRAULIC (PLATE 3 OF 4)

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)



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

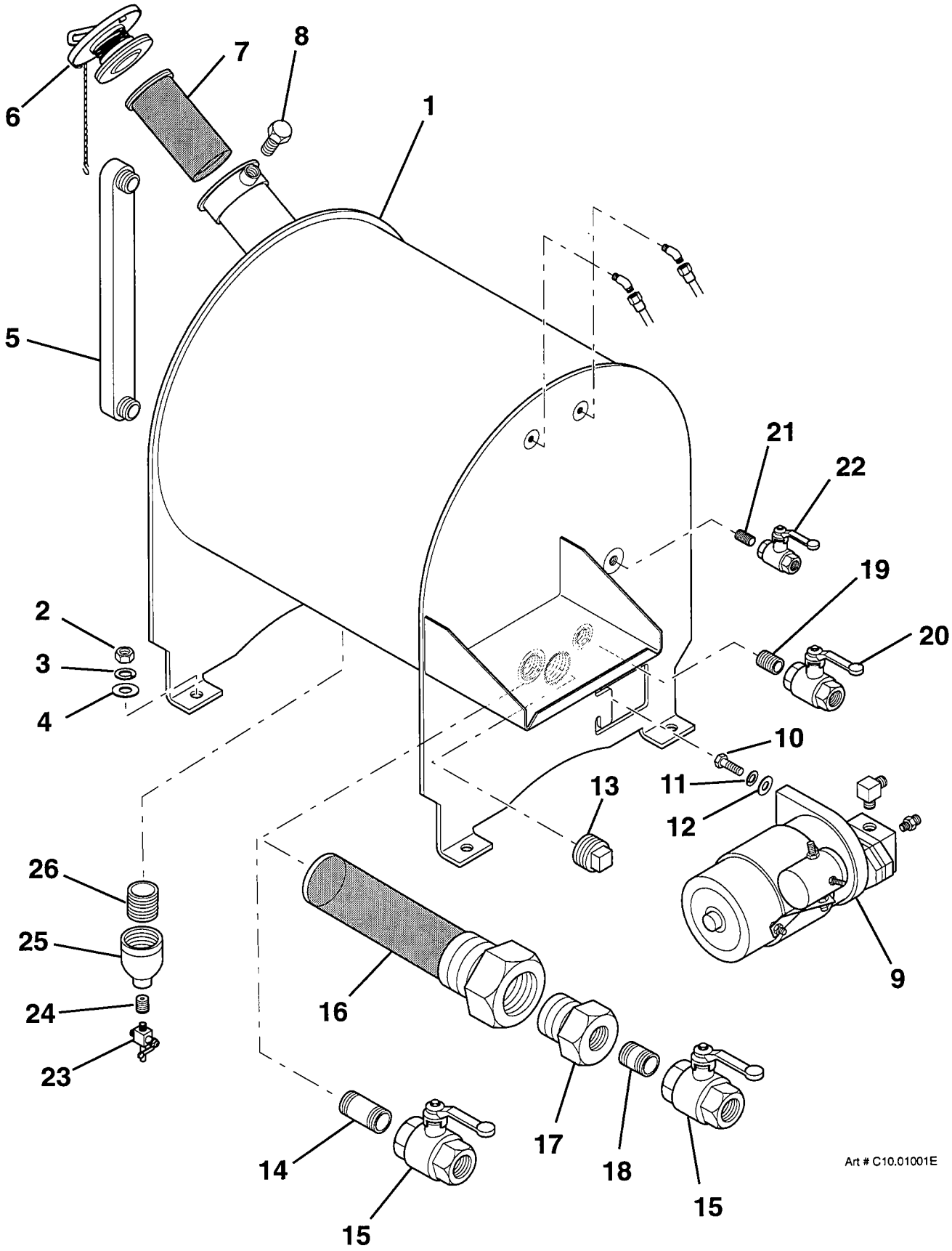
SIMON AERIALS INC.	REV. 15 SEP., 1995	PART NO.	PLATE NO. C08.21

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			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)

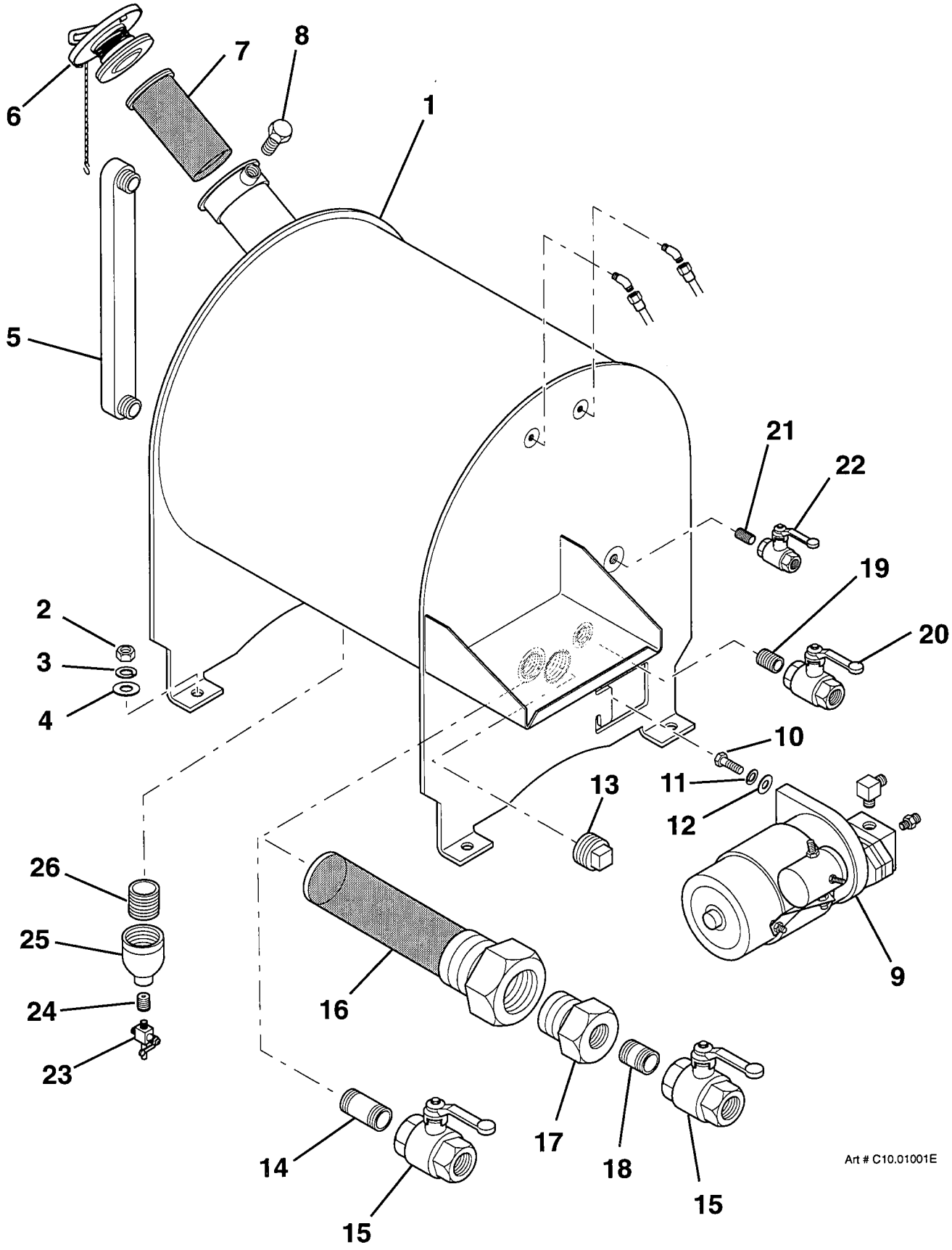
SIMON AERIALS INC. REV. 08 SEP., 1995	PART NO.	PLATE NO. C10.01

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)

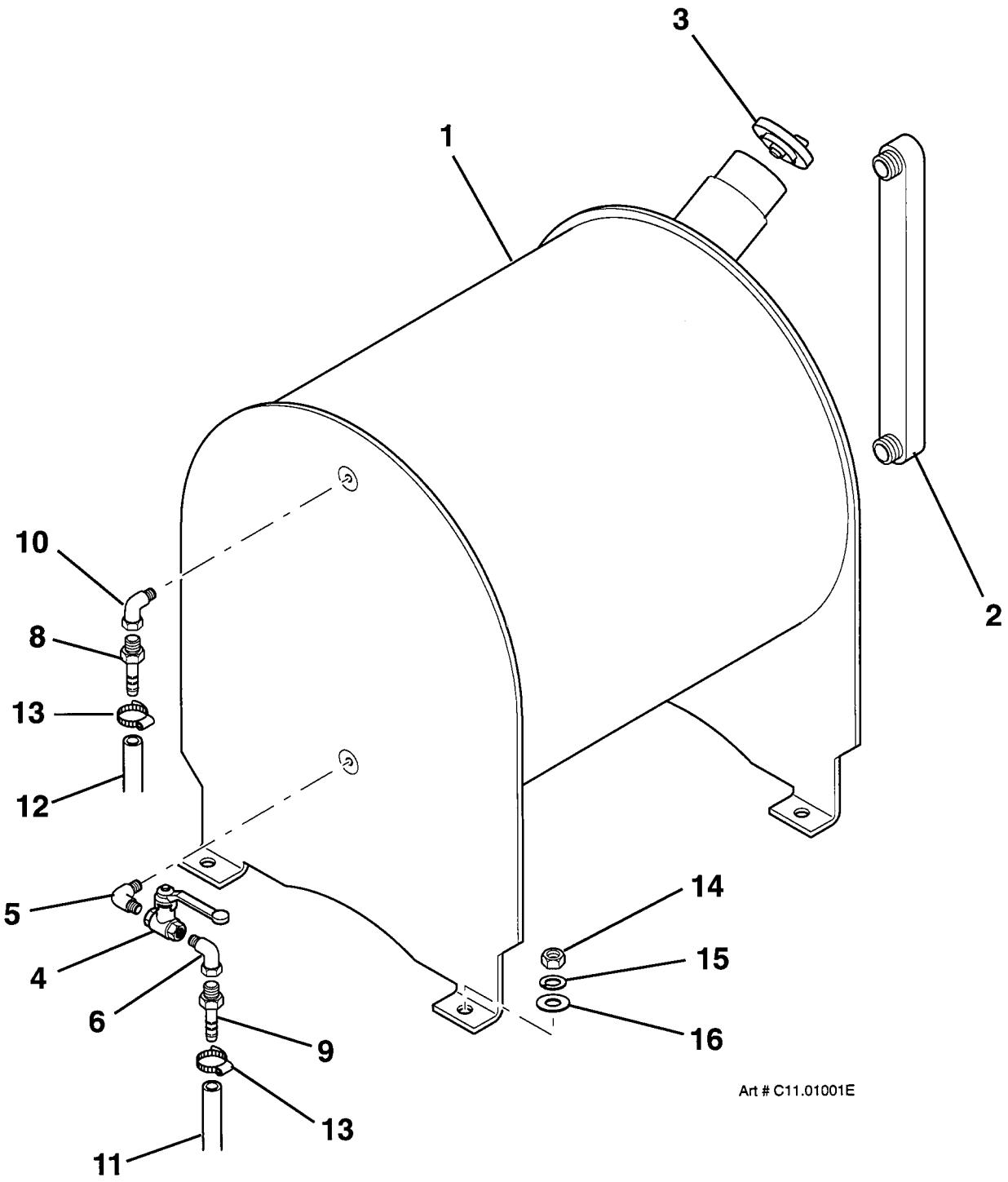
SIMON AERIALS INC. REV. 08 SEP., 1995	PART NO.	PLATE NO. C10.01

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.

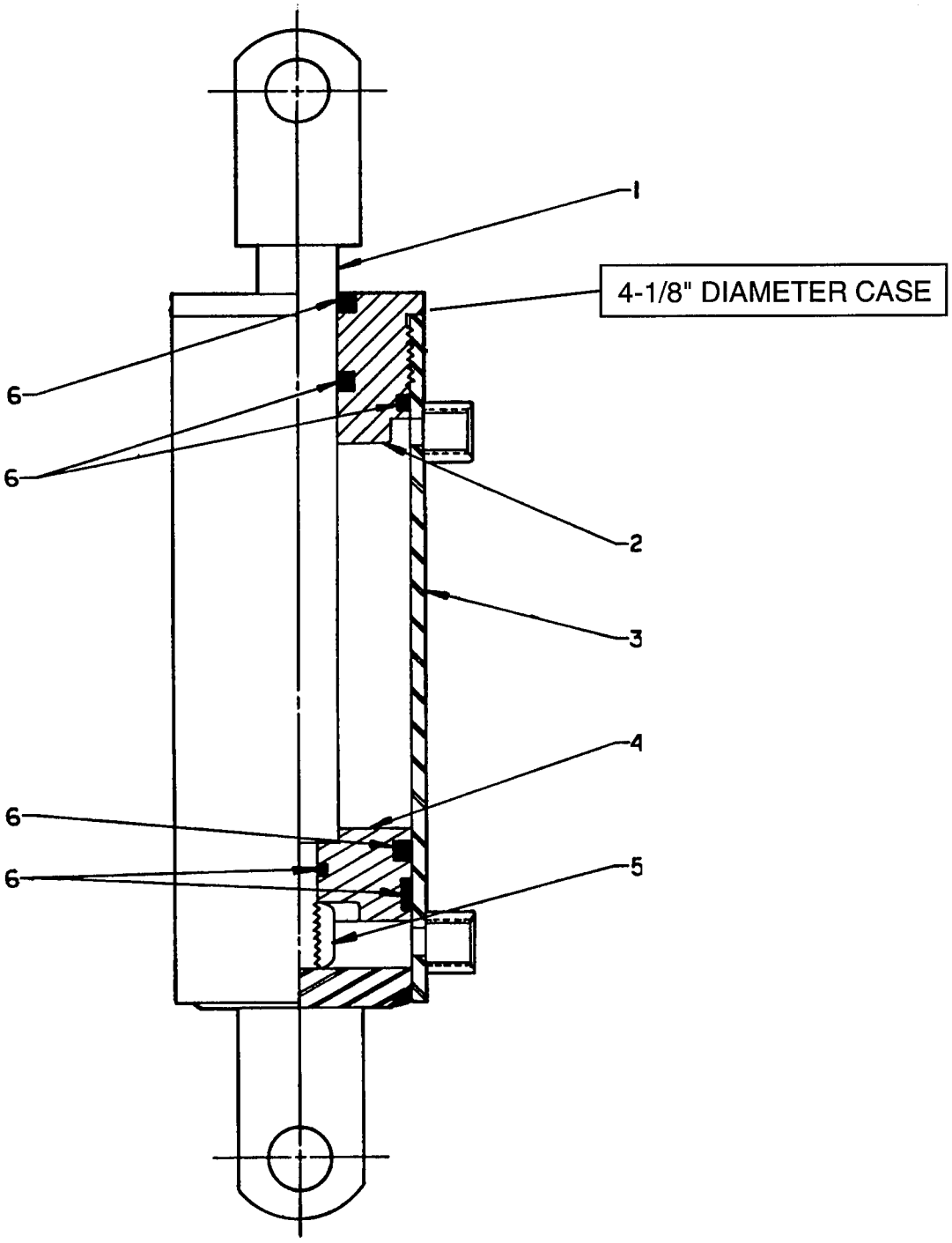


TITLE	FUEL TANK ASSEMBLY, MP SERIES (W/O EXTENDABLE AXLES)		
SIMON AERIALS INC.	REV. 29 JUN., 1994	PART NO.	PLATE NO. C11.01

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

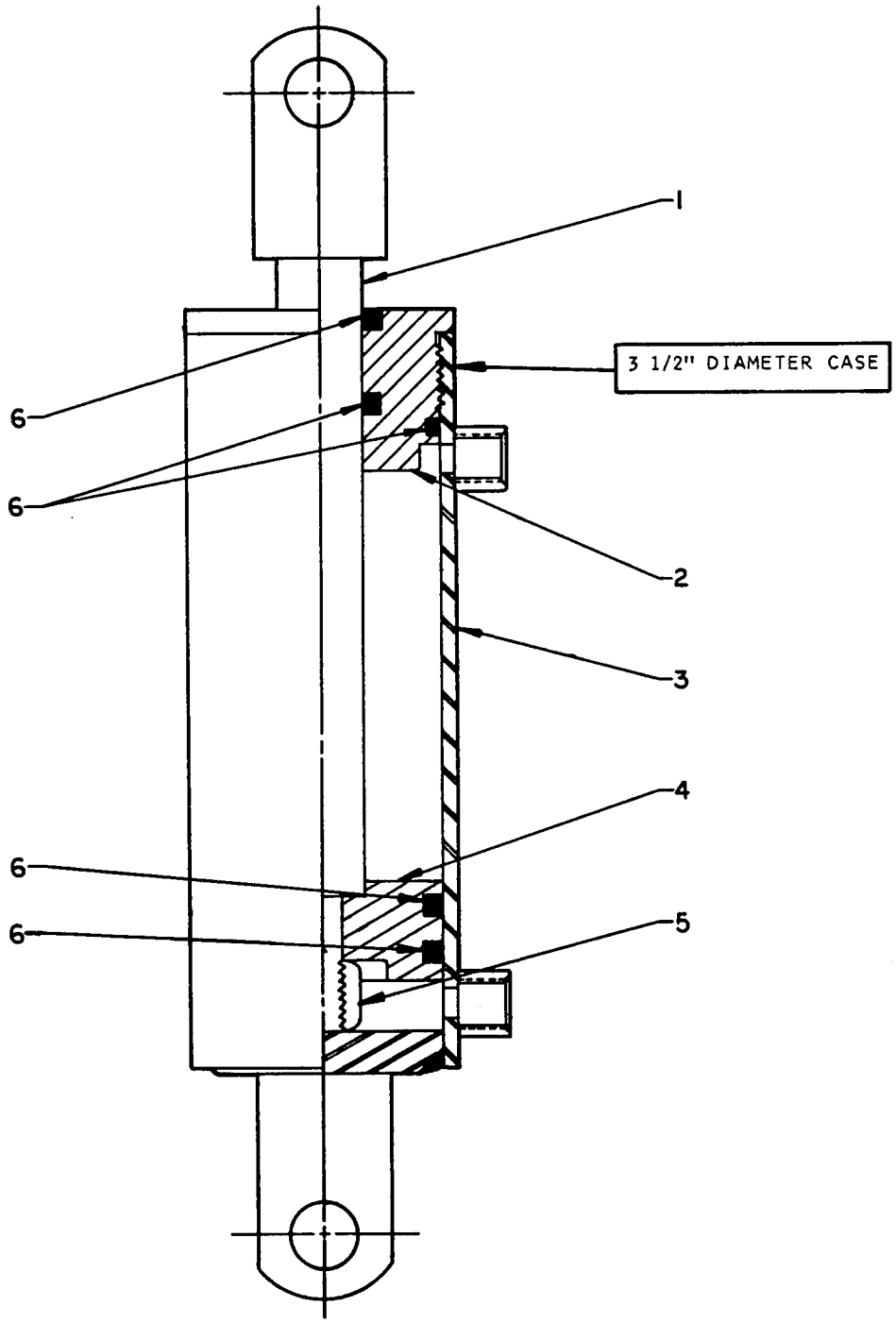


TITLE	STEER CYLINDER		
SIMON AERIALS INC. REV. 08/01/90	PART NO. 04-008900	PLATE NO. D01.01	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			ROD W/CLEVIS	1
2	04-004902		HEAD GLAND	1
3			CASE	1
4			PISTON	1
5			LOCKNUT	1
6	04-004901		SEAL KIT	1

DESCRIPTION	PART NO.
STEER CYLINDER	04-004900



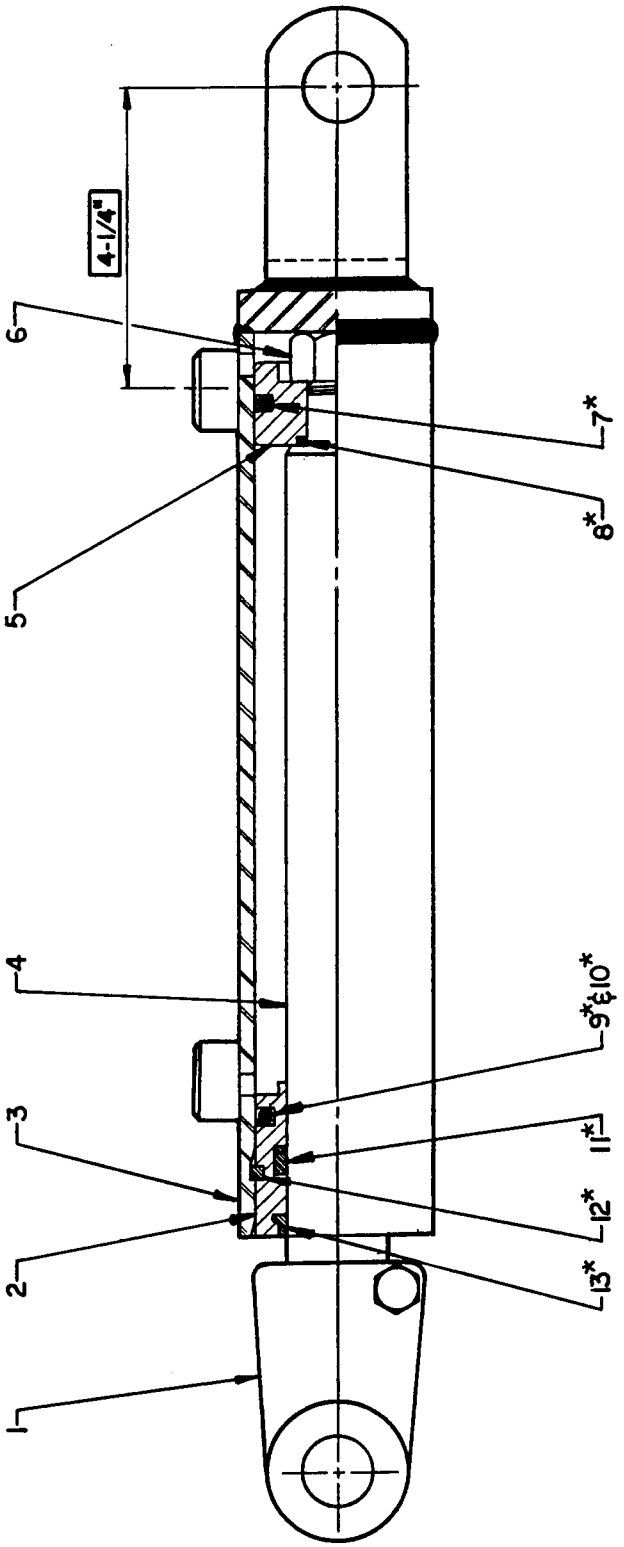
0884/0282

DESCRIPTION	PART NO.
STEER CYLINDER	04-004900

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

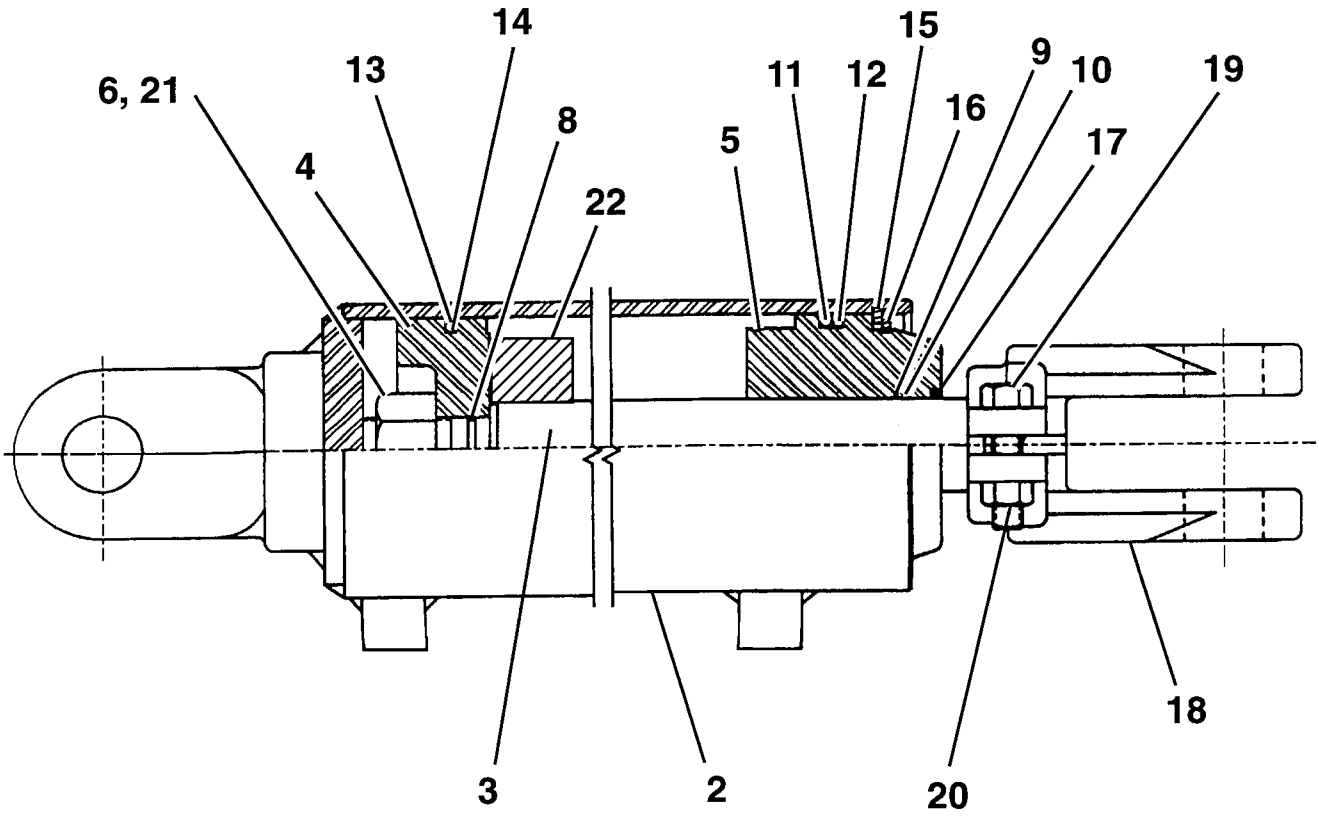
1184/0379

DESCRIPTION	PART NO.
STEER CYLINDER	04-003400

PARTS LIST

ITEM	PART NO	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

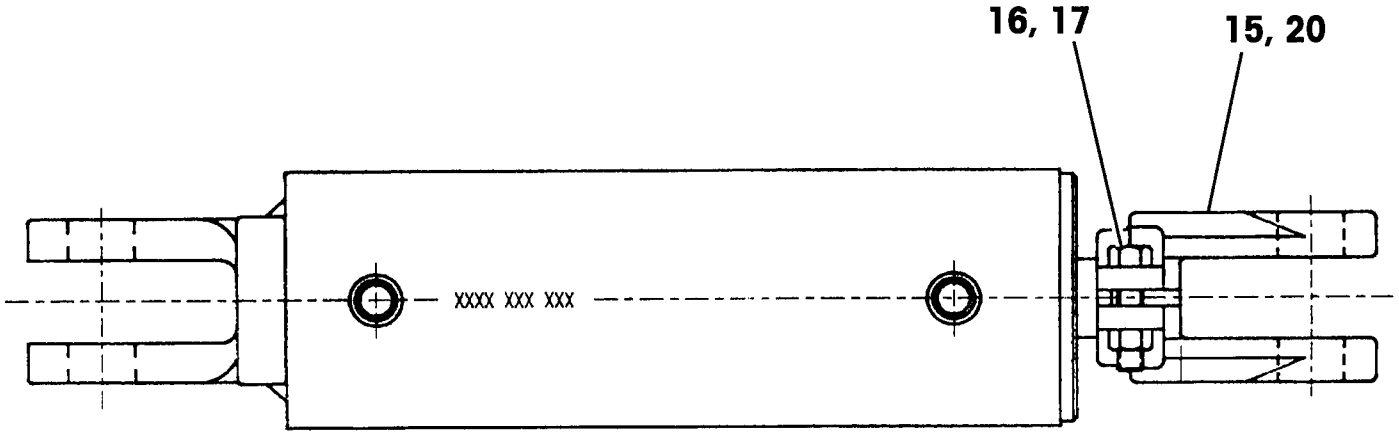
PARTS LIST

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

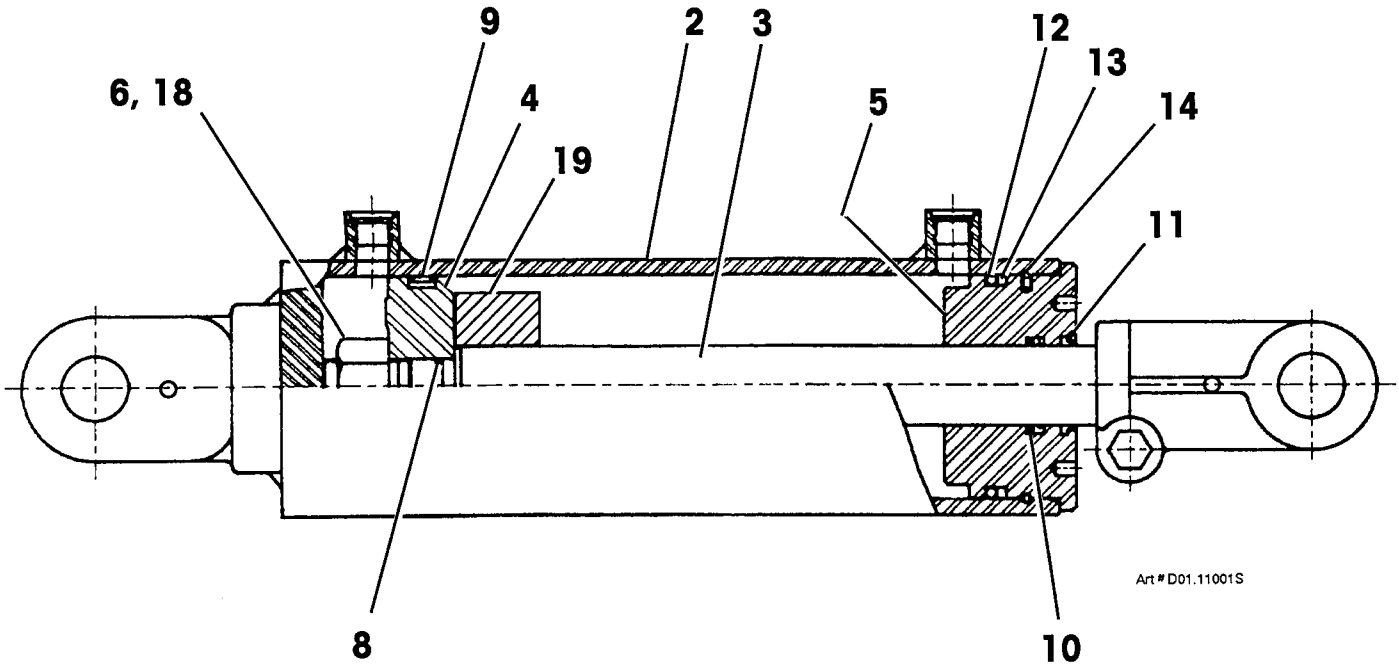
TITLE: STEER CYLINDER

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 15 JUN, 1994	SECTION D01	PLATE NO. 11	PAGE 01	

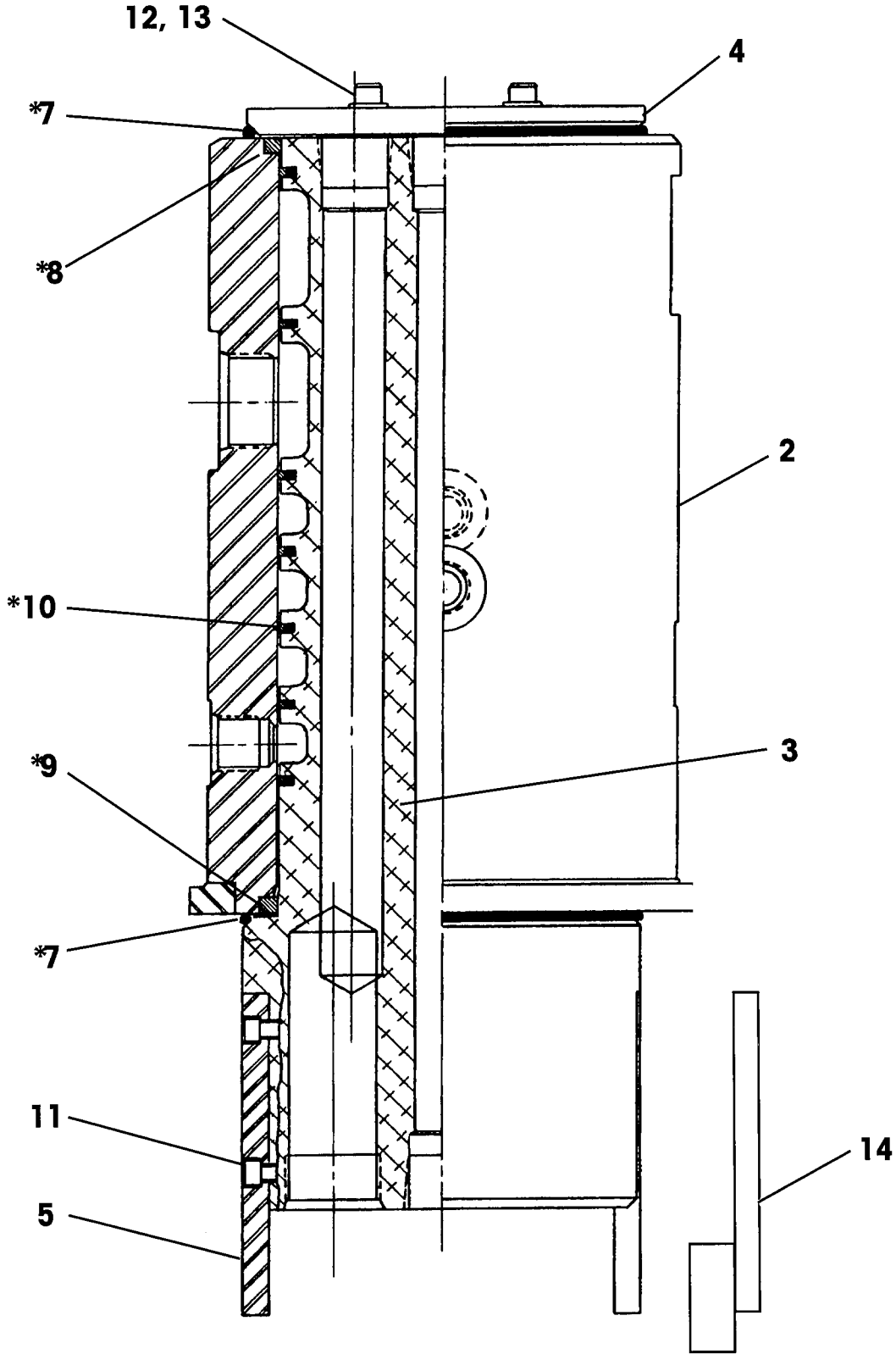
PARTS LIST

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
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TITLE: HYDRAULIC SWIVEL

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

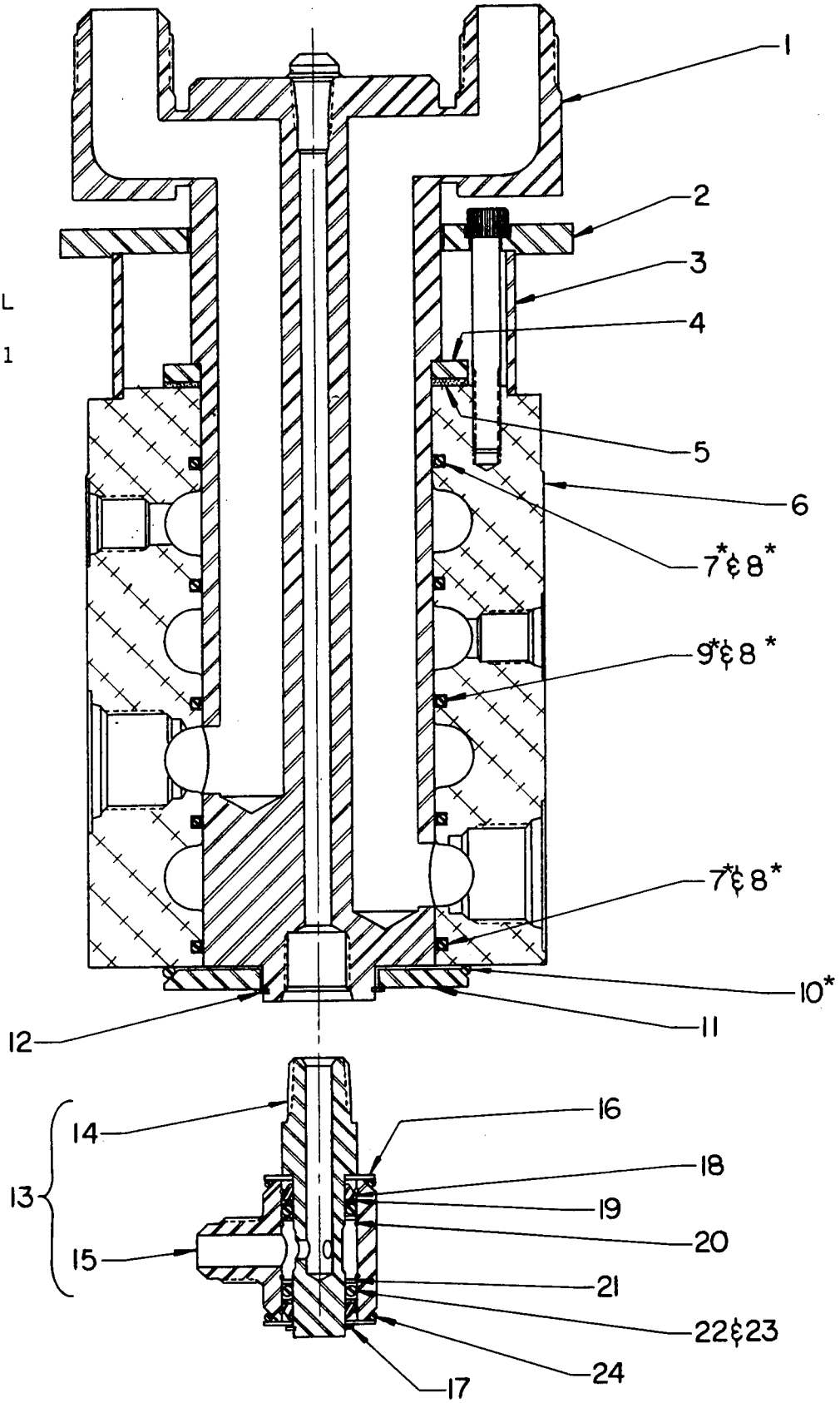
PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			CENTER POST	1
2			END CAP	1
3	04-001603		SPACER TUBE	1
4	04-001606		SPACER	1
5	04-001605		NYLON THRUST WASHER	1
6			SWIVEL BODY	1
7*			END 'O' RING	2
8*			SLIPPER SEAL	5
9*			'O' RING	3
10*			'O' RING	1
11			END CAP	1
12	04-001604		RETAINING RING	1
13	04-001602		AUXILIARY SWIVEL ASSEMBLY	1
14			CENTER POST	1
15			SWIVEL BODY	1
16			END CAP	2
17			RETAINING RING	1
18			SPACER	2
19			BACK UP RING	2
20			RETAINING RING	4
21			BACK-UP RING	2
22			'O' RING	2
23			SLIPPER SEAL	2
24			'O' RING	1
*	04-001601		SEAL KIT UPPER SWIVEL	1

DESCRIPTION	PART NO.
HYDRAULIC SWIVEL	04-001600

NOTE:

* UPPER SWIVEL SEAL KIT P/N 04-001601



1183/0677

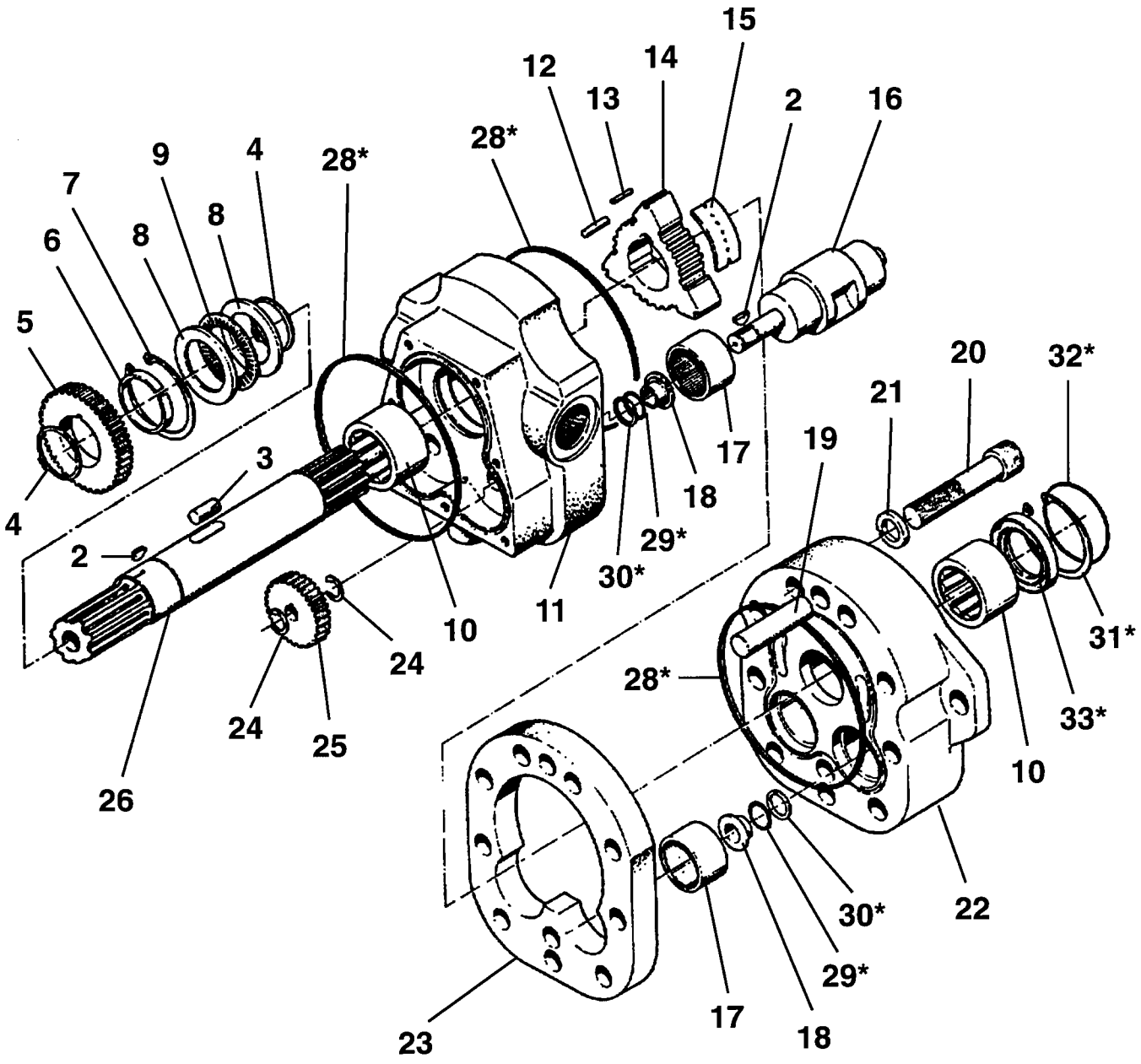
DESCRIPTION	PART NO.
HYDRAULIC SWIVEL	04-001600

PARTS LIST

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

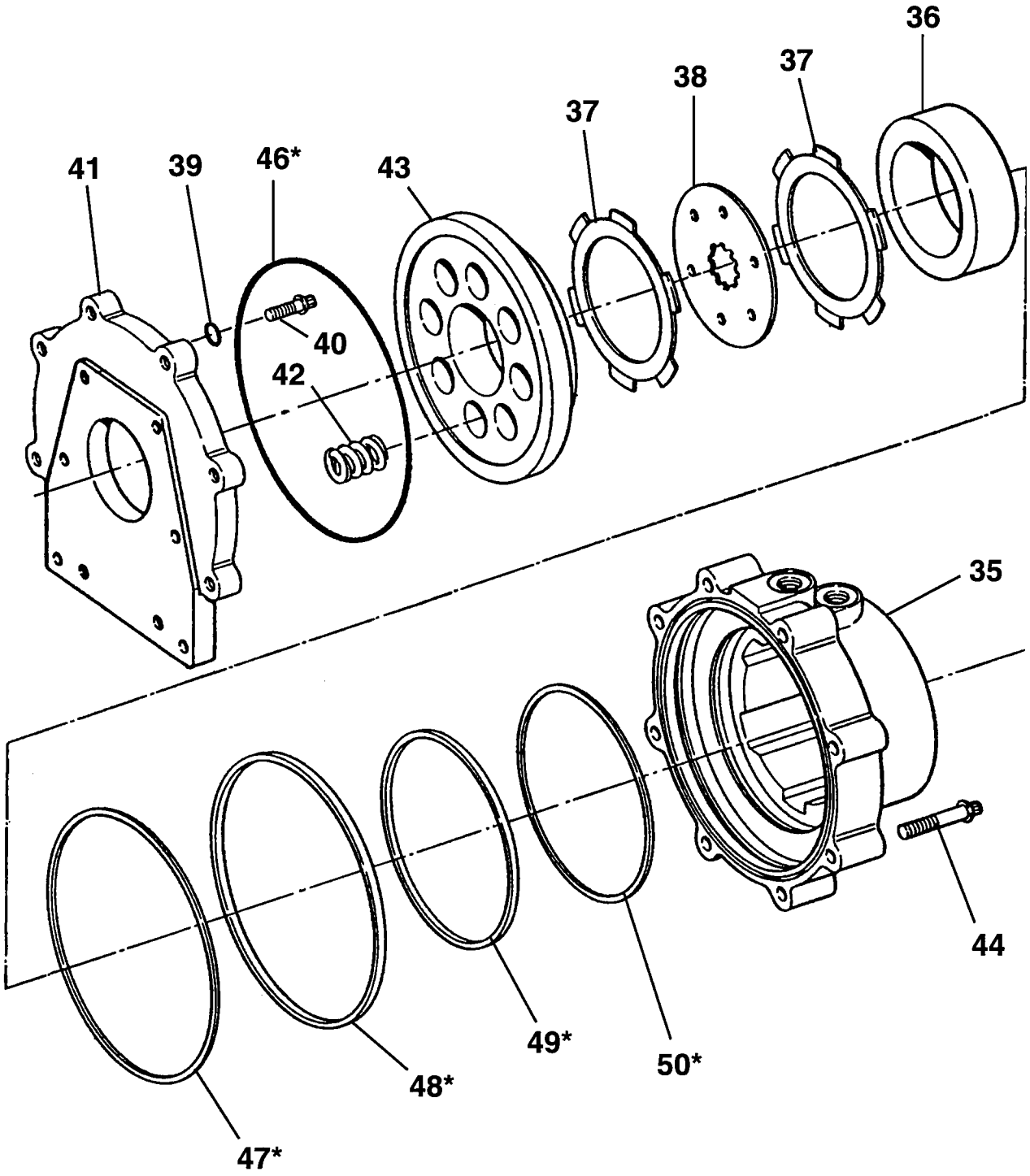


TITLE	WHEEL MOTOR/ BRAKE (MOTOR, 4 IN.^{3}, PLATE 1 OF 2)		
SIMON AERIALS INC.	REV. 7/19/91	PART NO. 01-000400	PLATE NO. D03.01

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



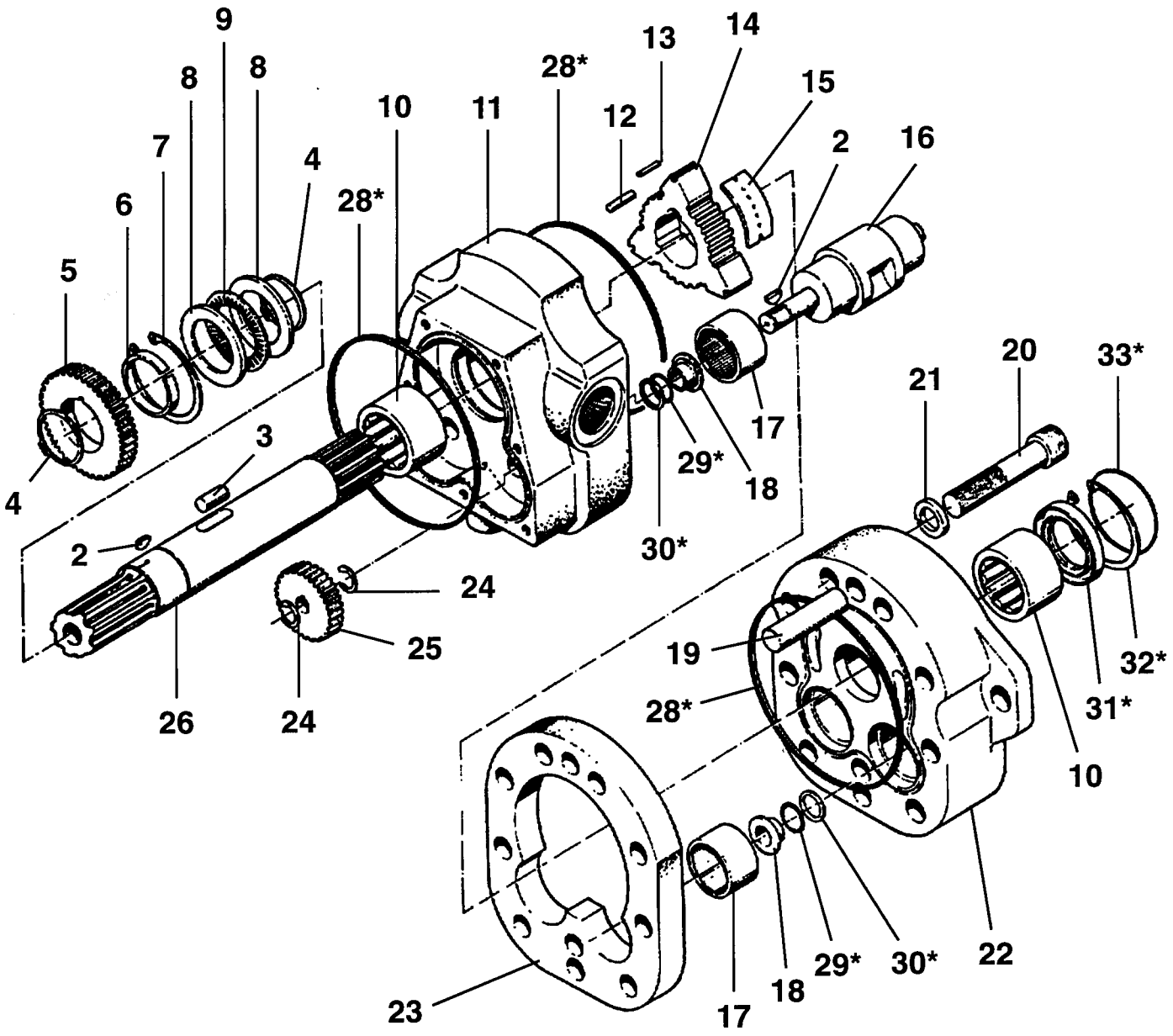
TITLE	WHEEL MOTOR/ BRAKE (BRAKE, PLATE 2 OF 2)		
SIMON AERIALS INC. REV. 7/19/91	PART NO. 01-000400	PLATE NO. D03.01	

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

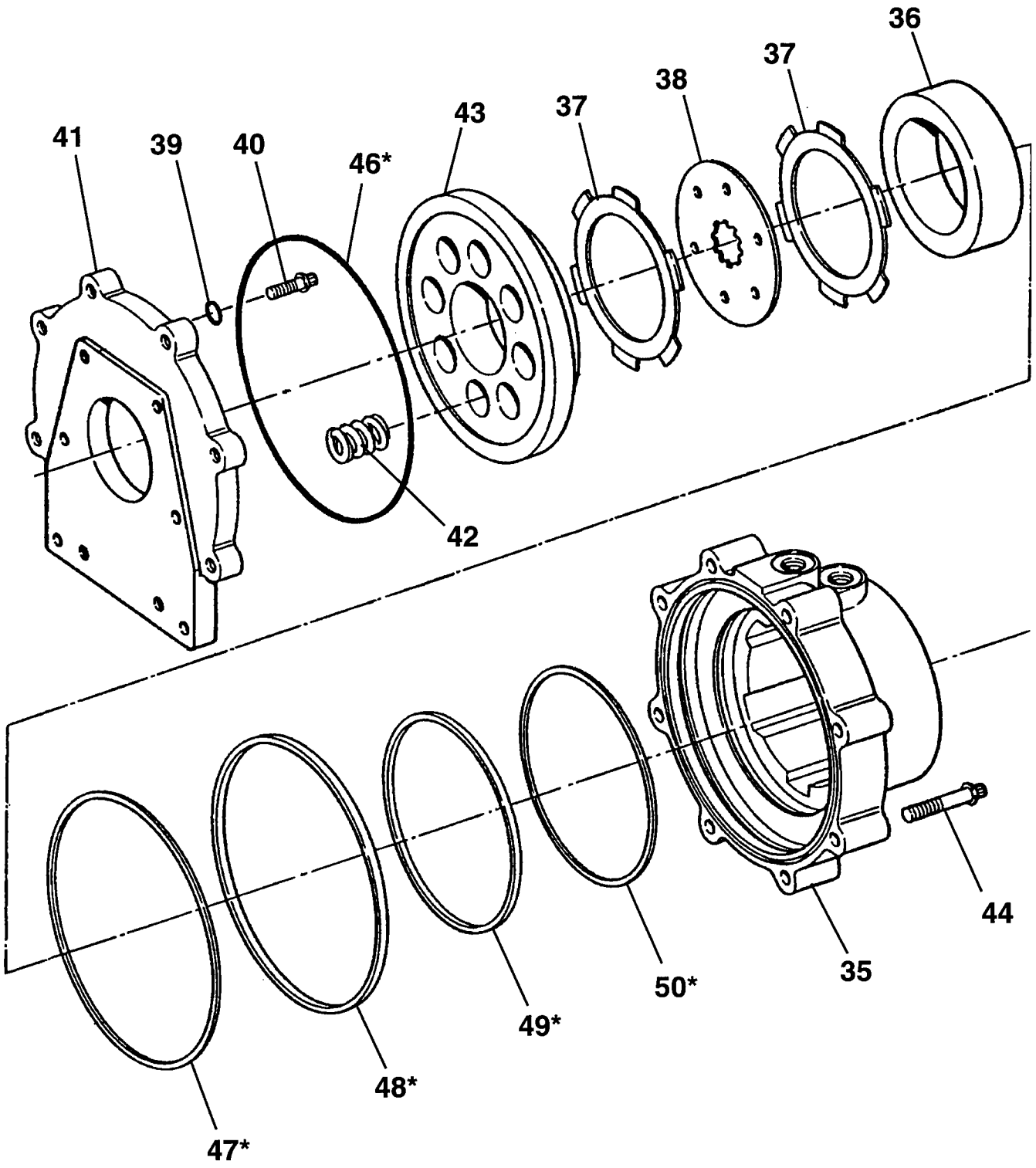


TITLE	WHEEL MOTOR/ BRAKE (MOTOR, 4 IN.^{3}, PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 7/19/91	PART NO. 01-004800	PLATE NO. D03.02	

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



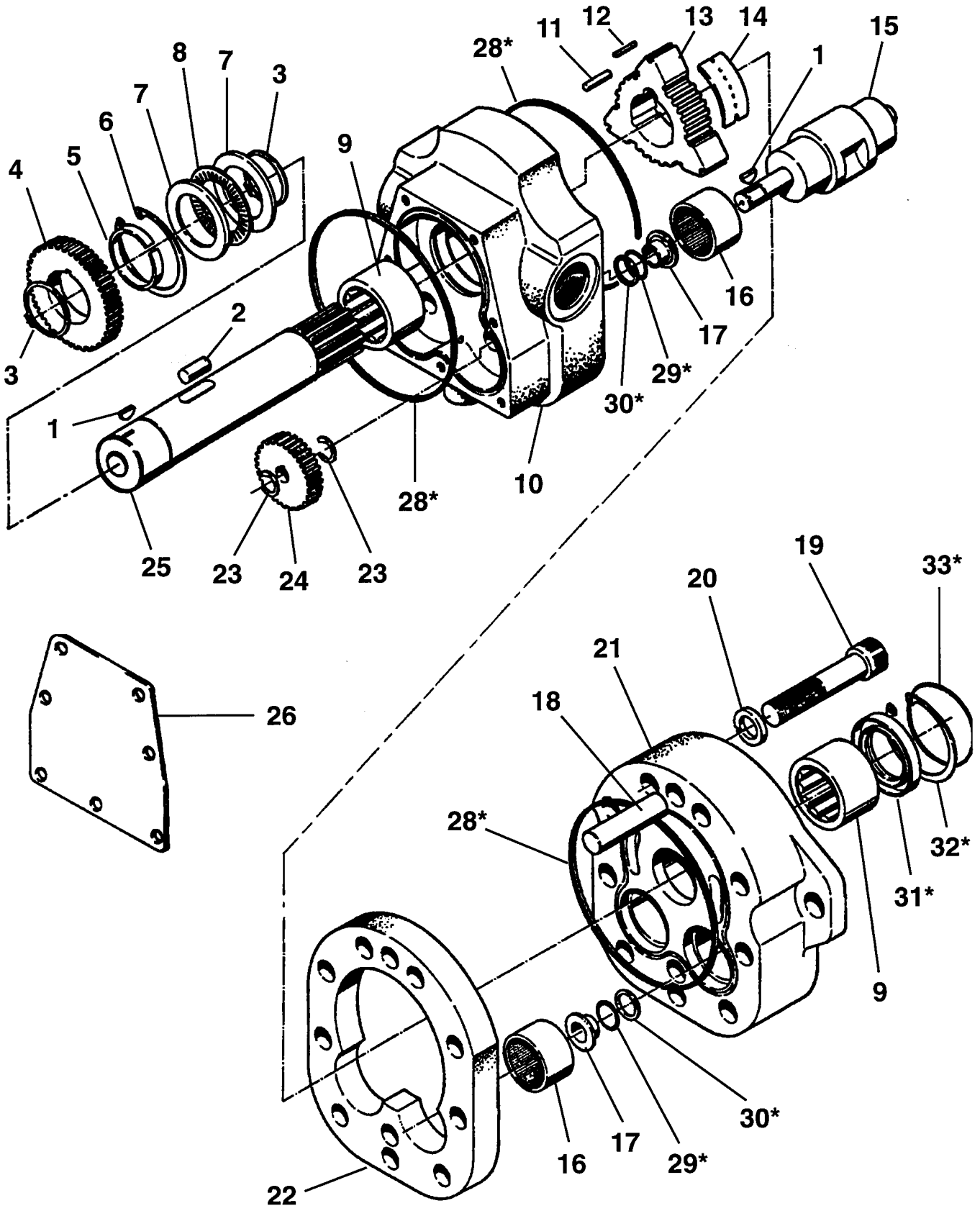
TITLE	WHEEL MOTOR/ BRAKE (BRAKE, PLATE 2 OF 2)				
SIMON AERIALS INC.	REV. 7/19/91	PART NO.	01-004800	PLATE NO.	D03.02

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



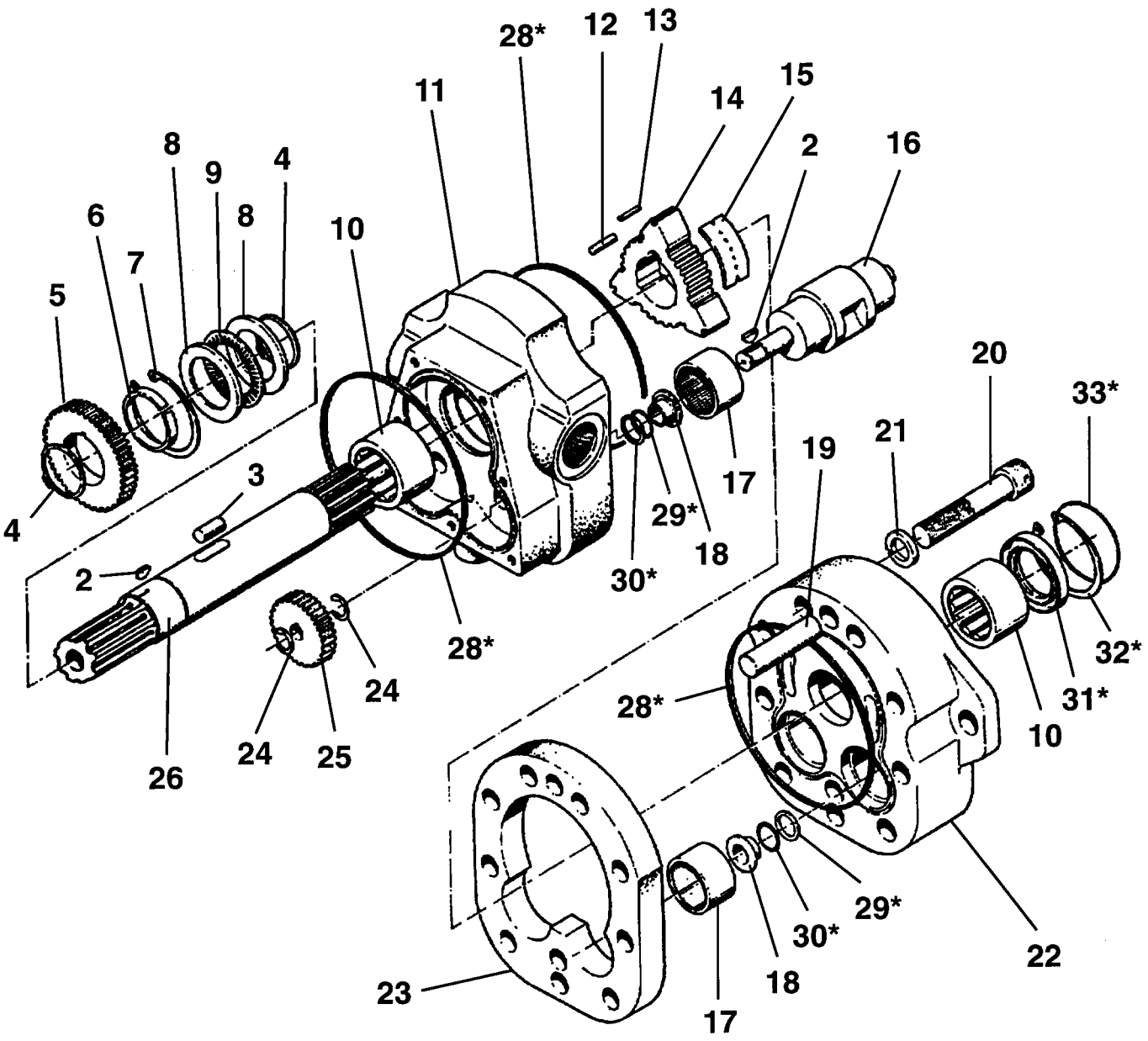
TITLE	WHEEL MOTOR (4 IN.^{3}, USED W/O BRAKE ON 4WD STEER AXLE)		
SIMON AERIALS INC.	REV. 7/19/91	PART NO. 01-003400	PLATE NO. D03.07

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			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.	SIMON AERIALS INC.	PART NO.
D03.09	REV. 7/19/91	01-064200

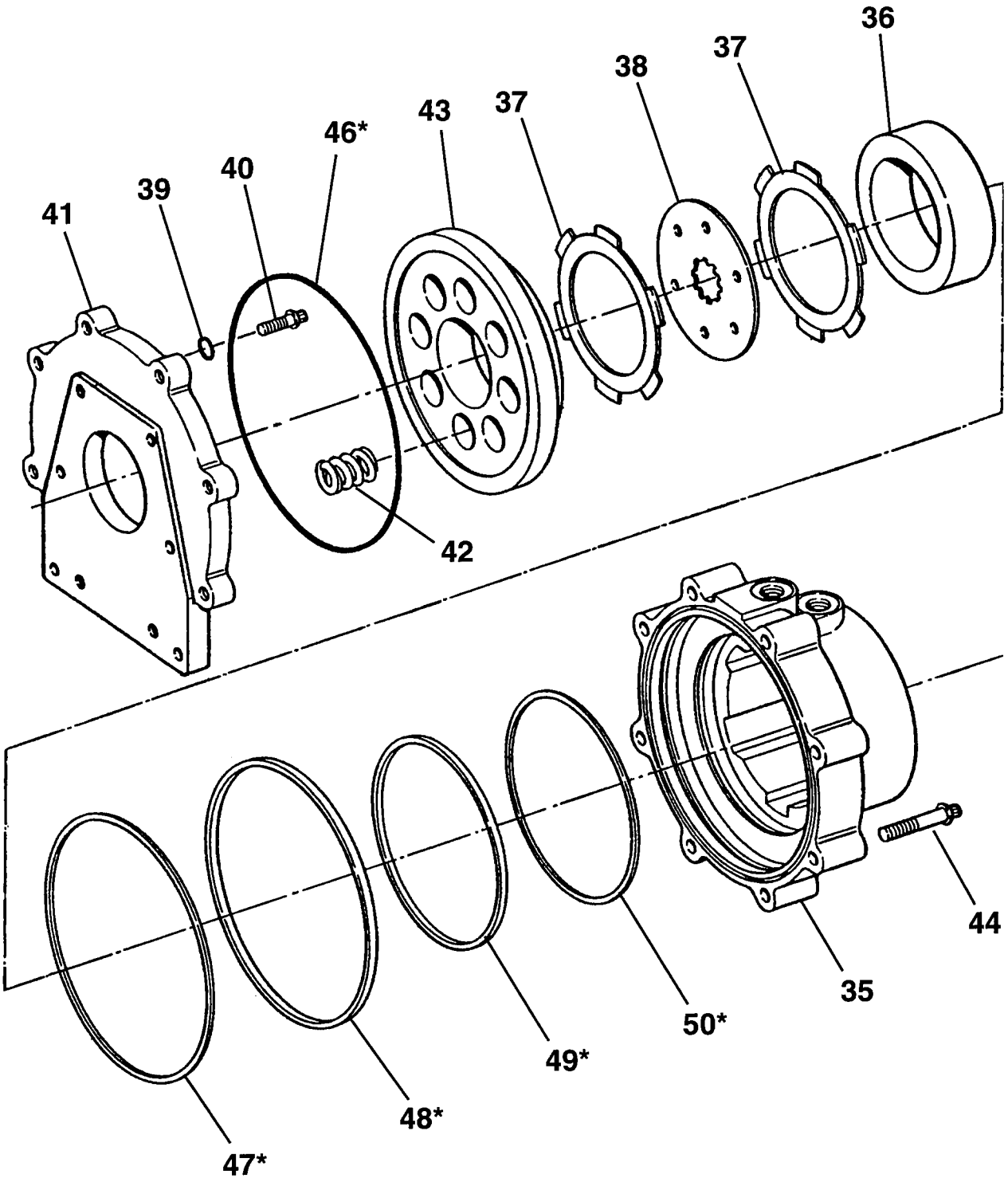


TITLE	WHEEL MOTOR/ BRAKE (MOTOR, 5 IN.^{3}, PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 7/19/91	PART NO. 01-064200	PLATE NO. D03.09	

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. 7/19/91	PART NO. 01-064200

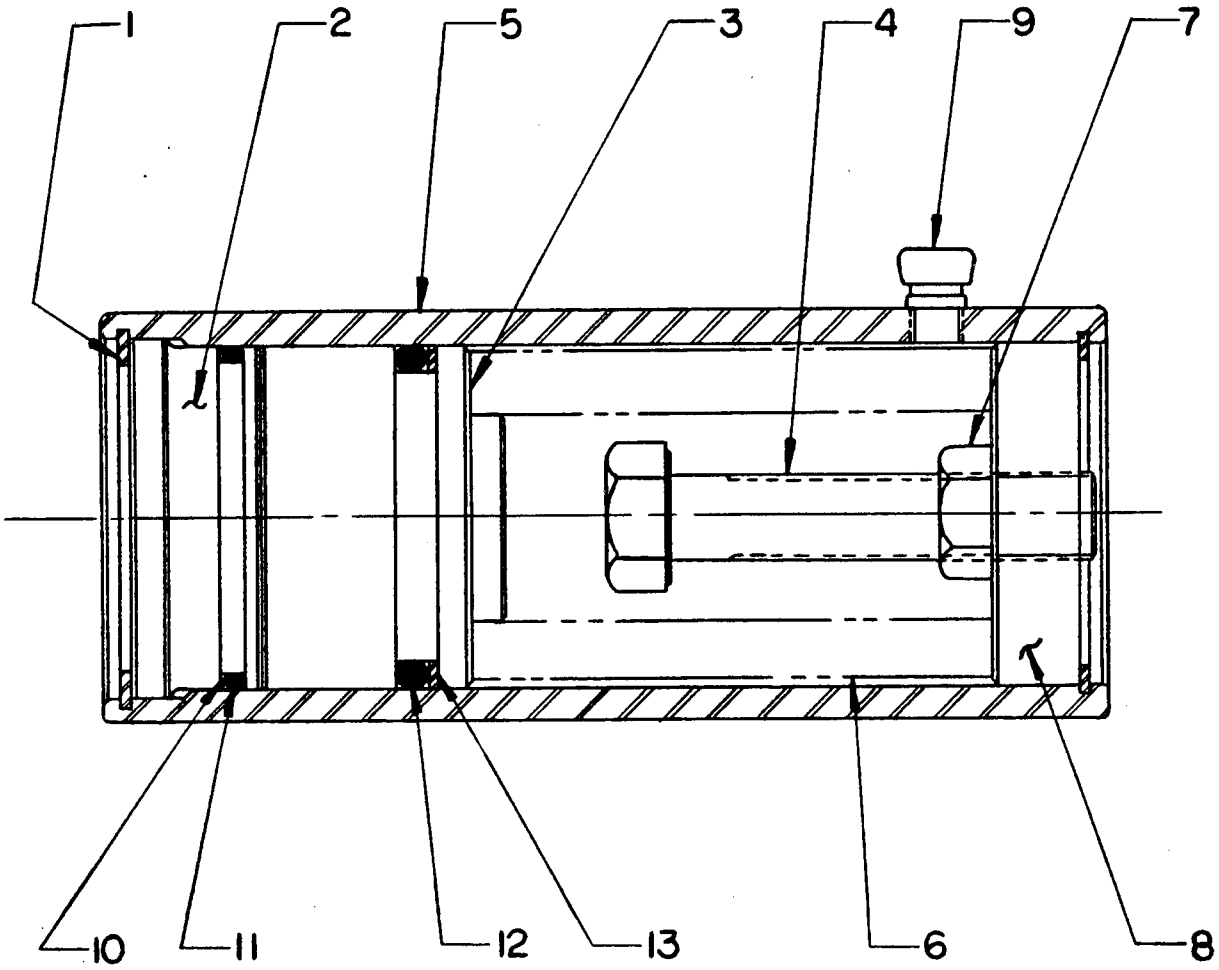


TITLE	WHEEL MOTOR/ BRAKE (BRAKE, PLATE 2 OF 2)				
SIMON AERIALS INC.	REV. 7/19/91	PART NO.	01-064200	PLATE NO.	D03.09

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



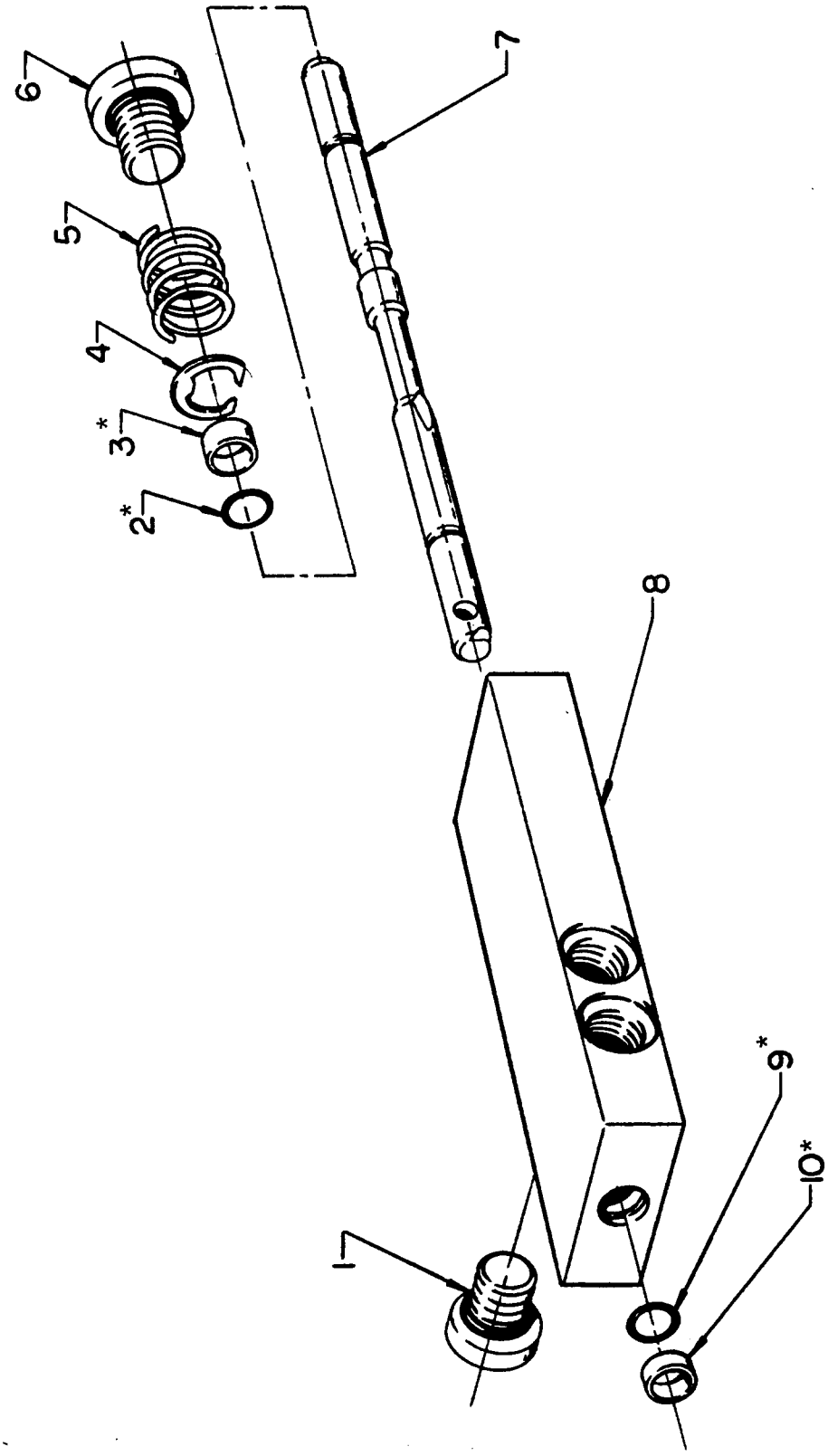
1183/0677

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

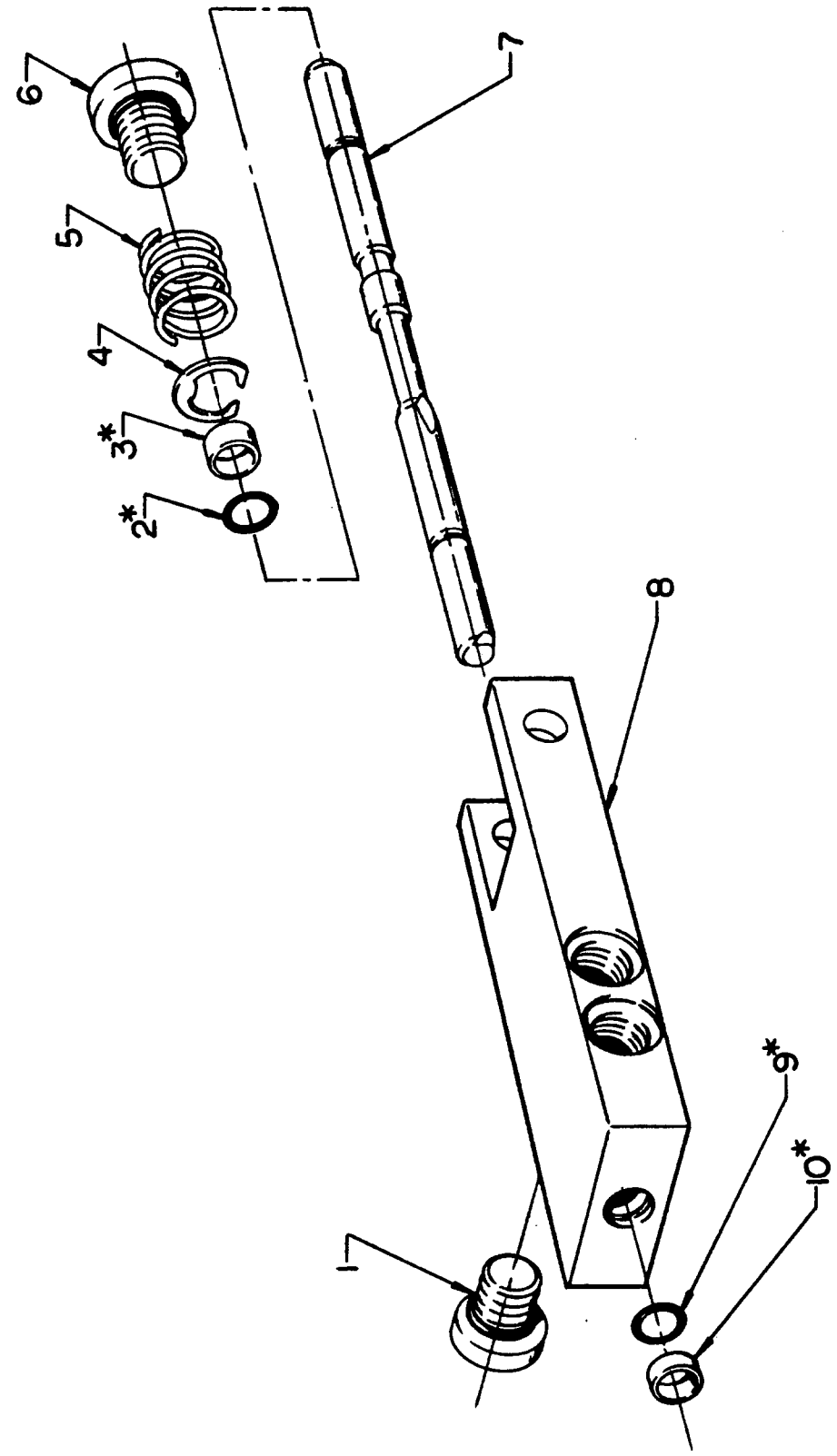
0484/0383

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

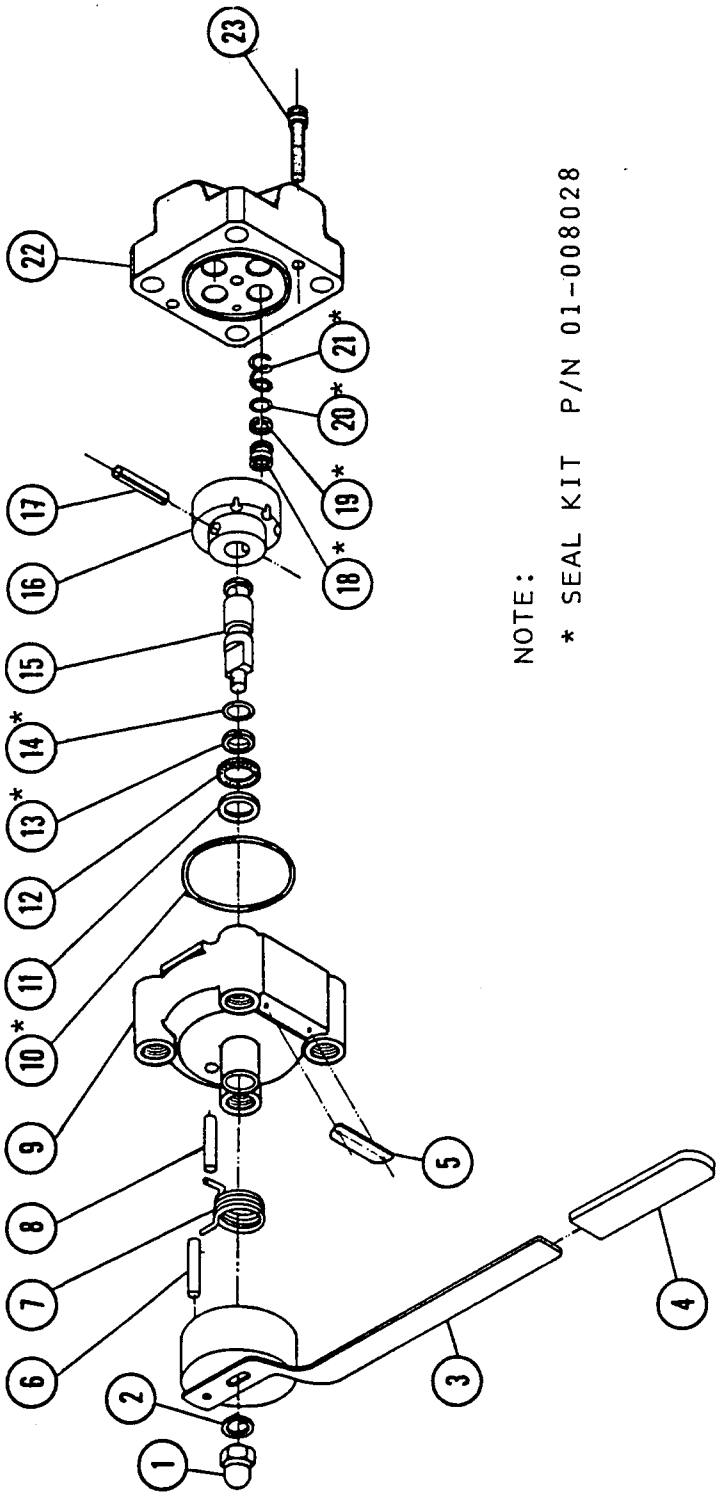
0984 /0677

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



0584/0677

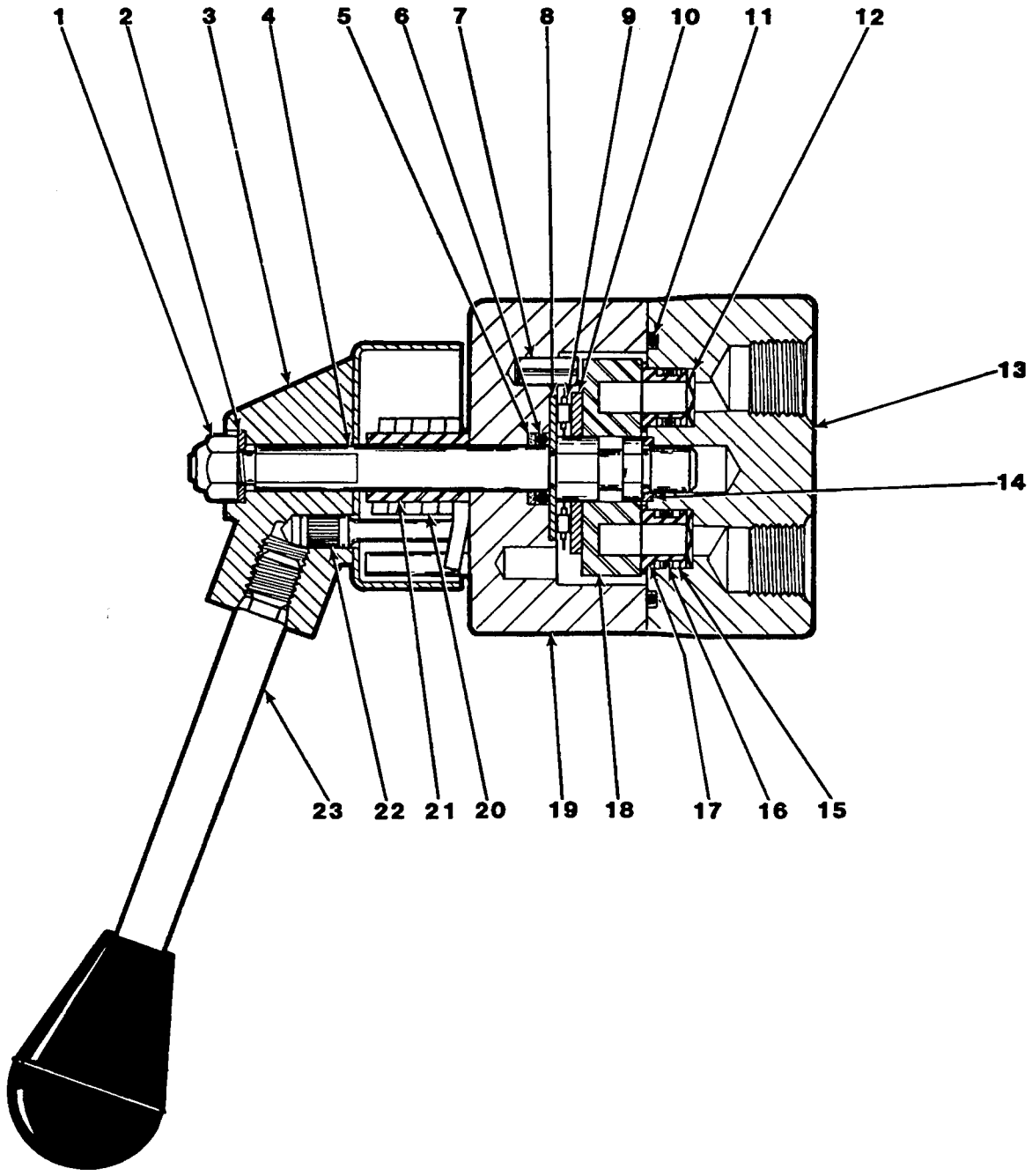
DESCRIPTION	PART NO.
HPC VALVE, GROUND CONTROLS	01-032600

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

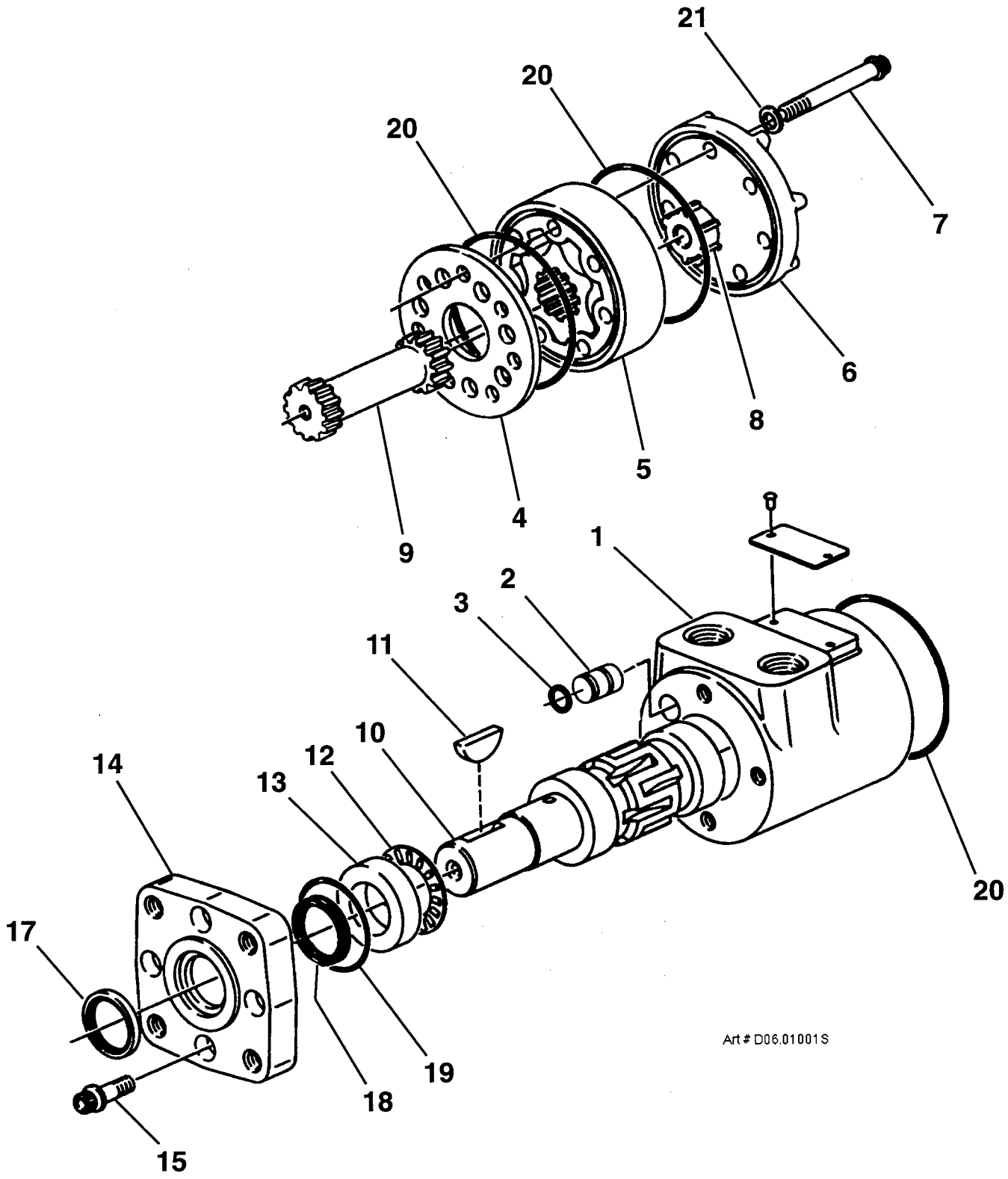
TITLE 4-WAY MANUAL CONTROL VALVE

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

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION
	01-002300		SWING MOTOR ASSEMBLY (nameplate is stamped "101-1001-007)
1			HOUSING
2			PLUG
3			O-RING
4			PLATE, SPACER
5			GEROTOR SET
6			CAP, END
7a	01-002303		CAP SCREW KIT
7b			CAP SCREW, TWELVE POINT (5/16"-24)
8			SPACER
9			SHAFT, DRIVE
10	01-002302		SHAFT, OUTPUT
11			KEY, WOODRUFF
12			BEARING, THRUST (needle bearing)
13			RACE, THRUST BEARING
14	01-002102		FLANGE, MOUNTING
15			CAP SCREW, TWELVE POINT (5/16"-24 x 7/8")
16	01-002301		SEAL KIT
17			SEAL, DUST
18			SEAL, SHAFT PRESSURE
19			SEAL
20			SEAL
21			WASHER, SEAL

TITLE	SWING MOTOR				
PLATE NO.	D06.01	SIMON AERIALS INC.	REV. 24 AUG., 1994 THIS SHEET ONLY	PART NO.	

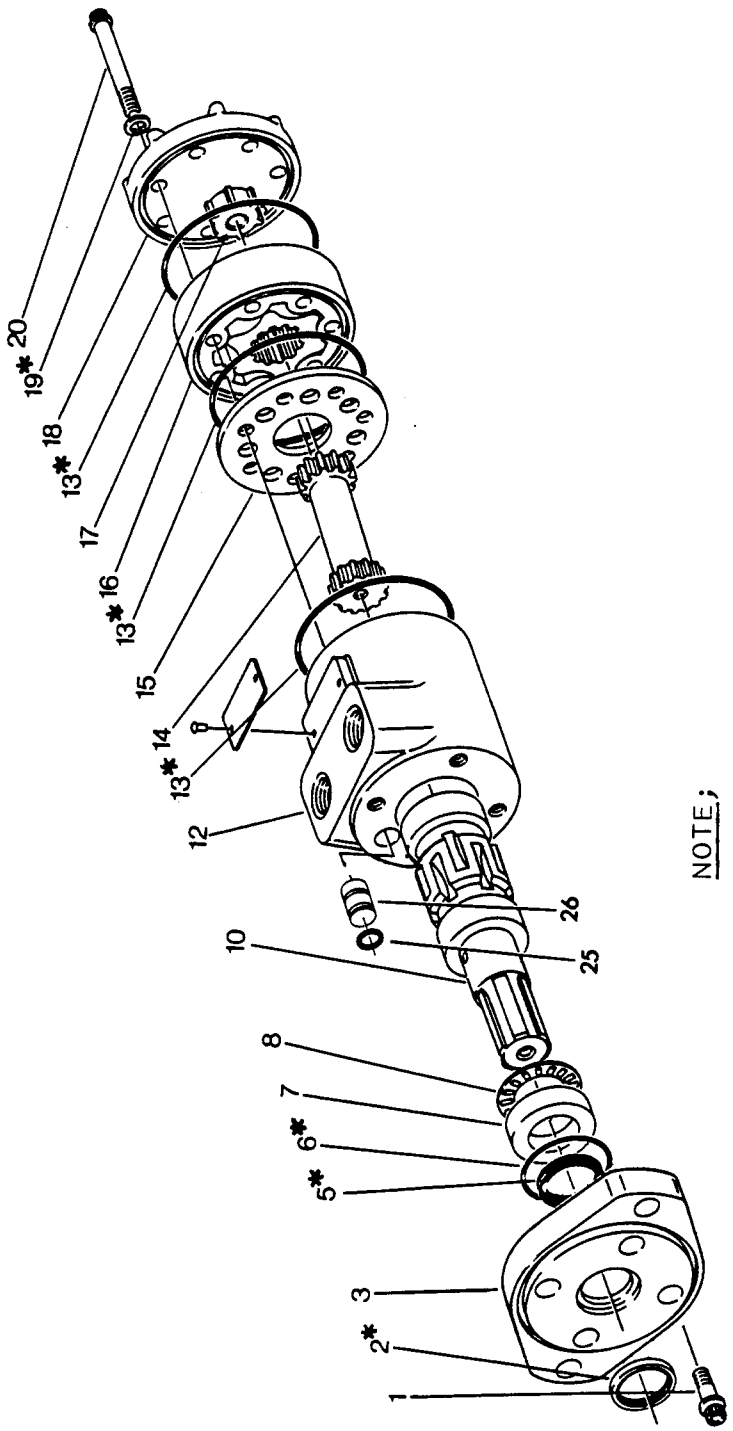


TITLE	SWING MOTOR		
SIMON AERIALS INC. REV. 05/02/91	PART NO. 01-002300	PLATE NO. D06.01	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			CAPSCREW, 12 PT. 5/16-24X7/8 LG.	4
2*			DUST SEAL	1
3			MOUNTING FLANGE, 2 BOLT	1
5*			SHAFT PRESSURE SEAL	1
6*			SEAL	1
7			BEARING RACE	1
8			THRUST NEEDLE BEARING	1
10			OUTPUT SHAFT (SPLINED)	1
12			HOUSING	1
13*			SEAL	3
14			DRIVE SHAFT	1
15			SPACER PLATE	1
16			GEROTOR SET	1
17			SPACER	1
18			END CAP	1
19*			SEAL WASHER	7
20			CAP SCREW, 12 PT 5/16-24 UNF	7
25*			'O' RING	1
26			PLUG	1
*	01-002301		SEAL KIT	1

DESCRIPTION	PART NO.
SWING MOTOR	01-009100



NOTE;

* SEAL KIT P/N 01-002301

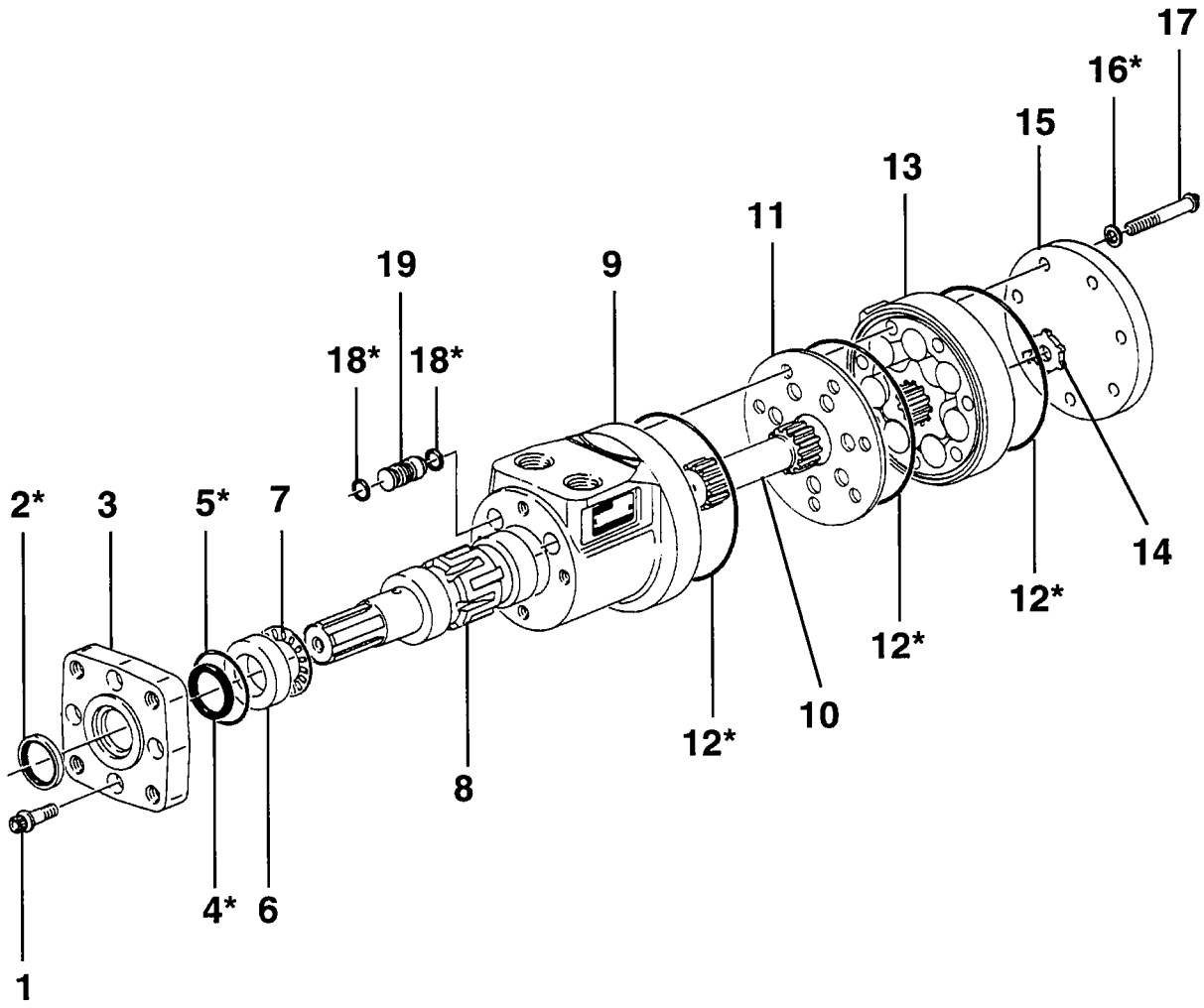
0484/0882

DESCRIPTION	PART NO.
SWING MOTOR	01-009100

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



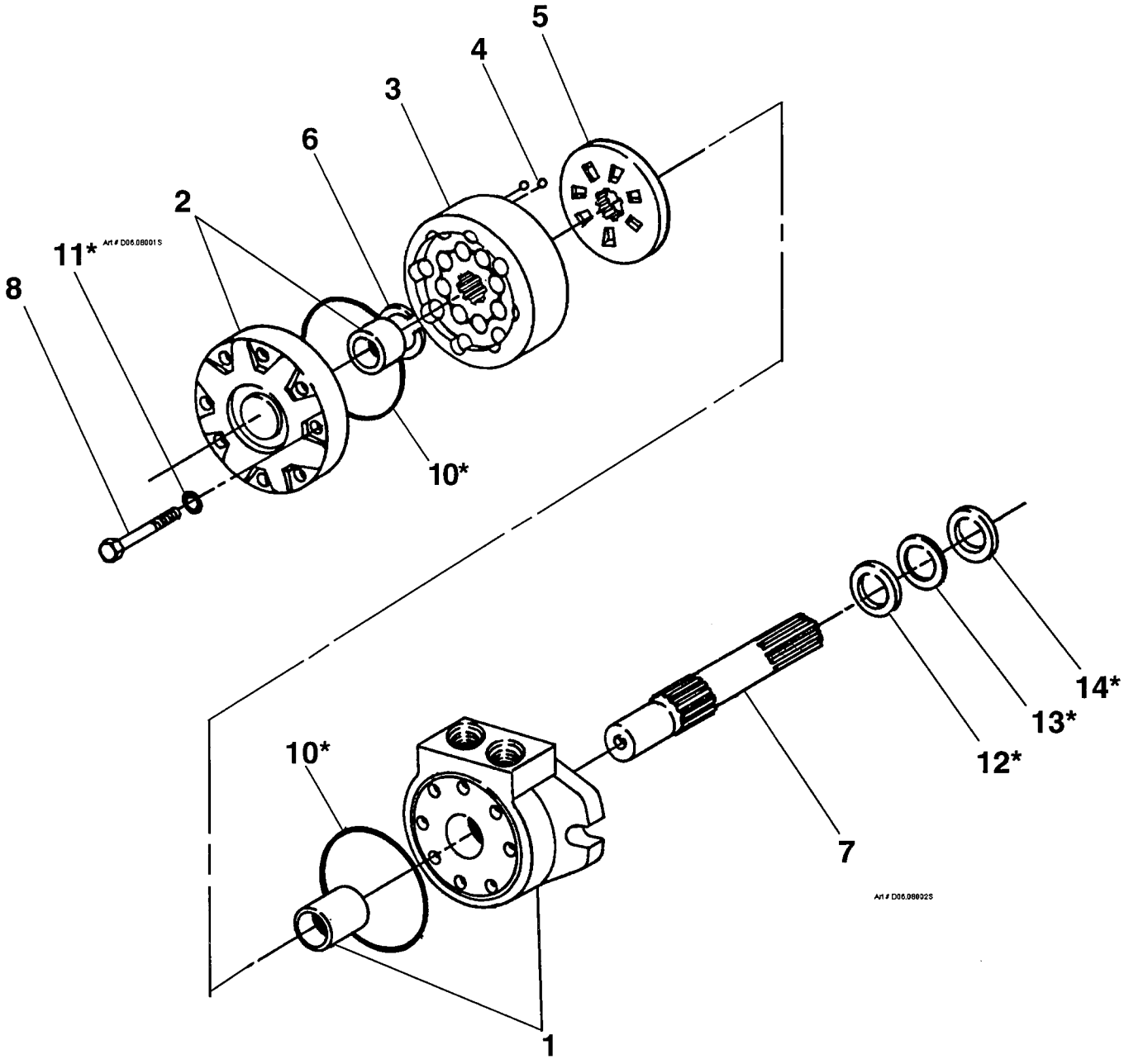
TITLE	SWING MOTOR		
SIMON AERIALS INC. REV. 26 FEB. '96	PART NO. 01-004100	PLATE NO. D06.05	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			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	

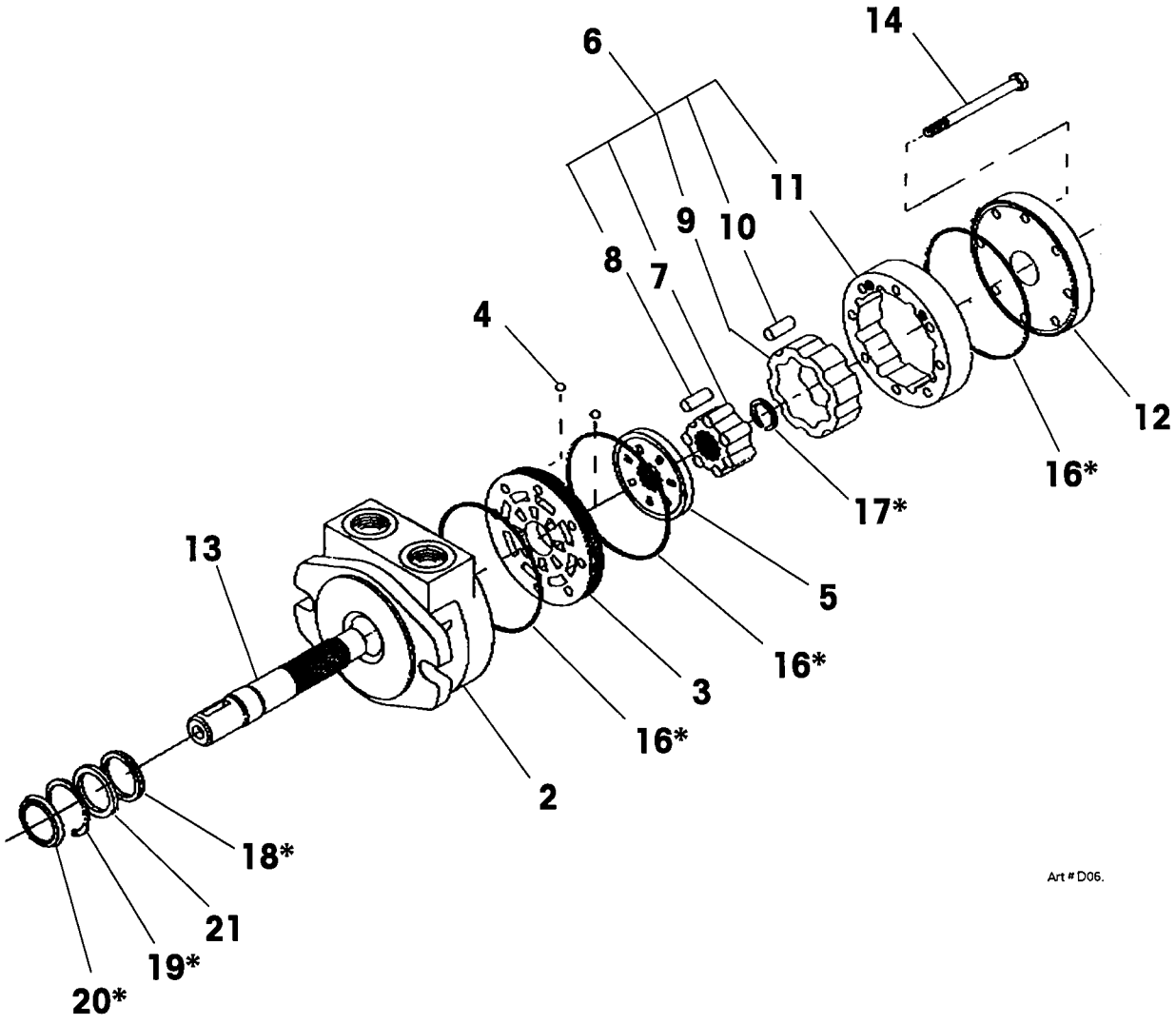
PARTS LIST

ITEM	PART NO	SEE 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 D06. | PLATE NO. 12 | PAGE 01 | REV. - | DATED 19 JUL., 1994 | PART NO. 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



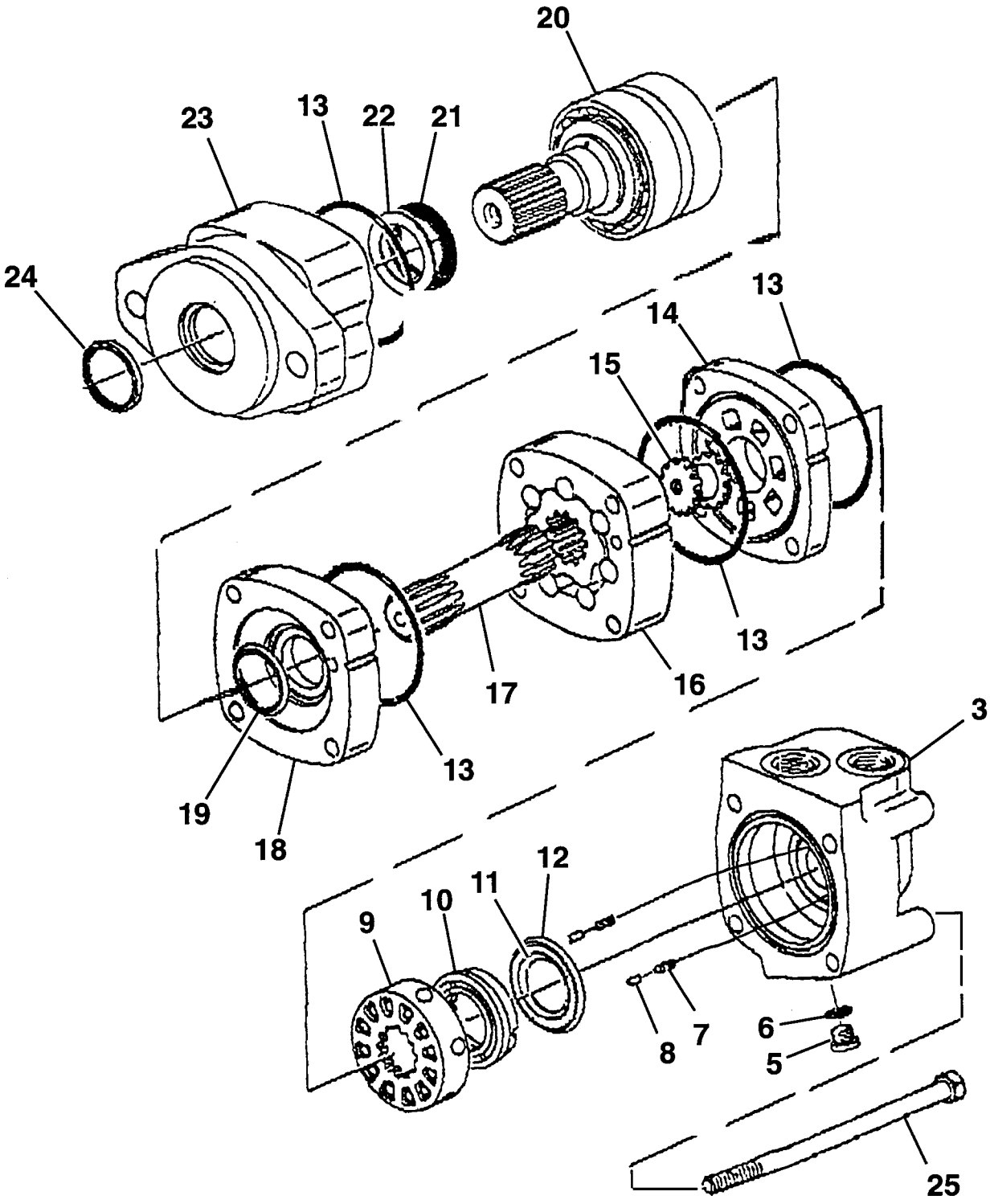
Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	TITLE	SWING MOTOR					
	PART NO. 01-215 500	REV. -	DATED 19 JUL., 1994	SECTION D06.	PLATE NO. 12	PAGE 01	

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

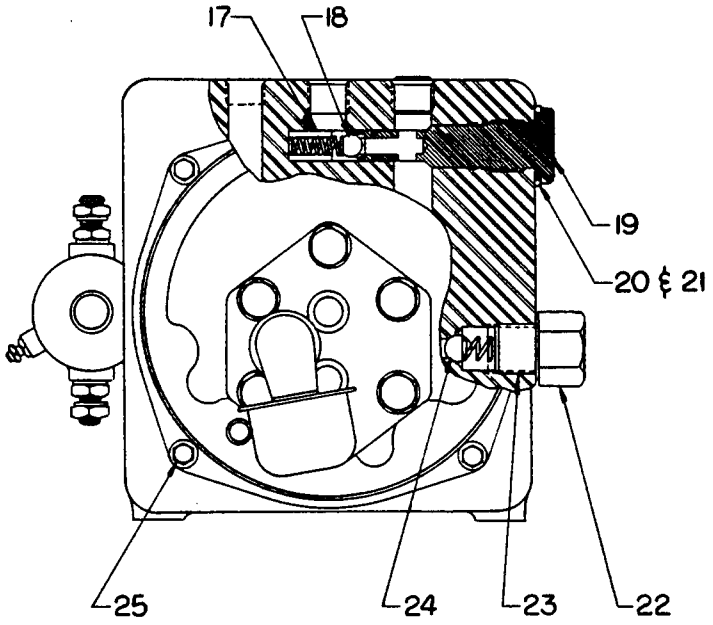


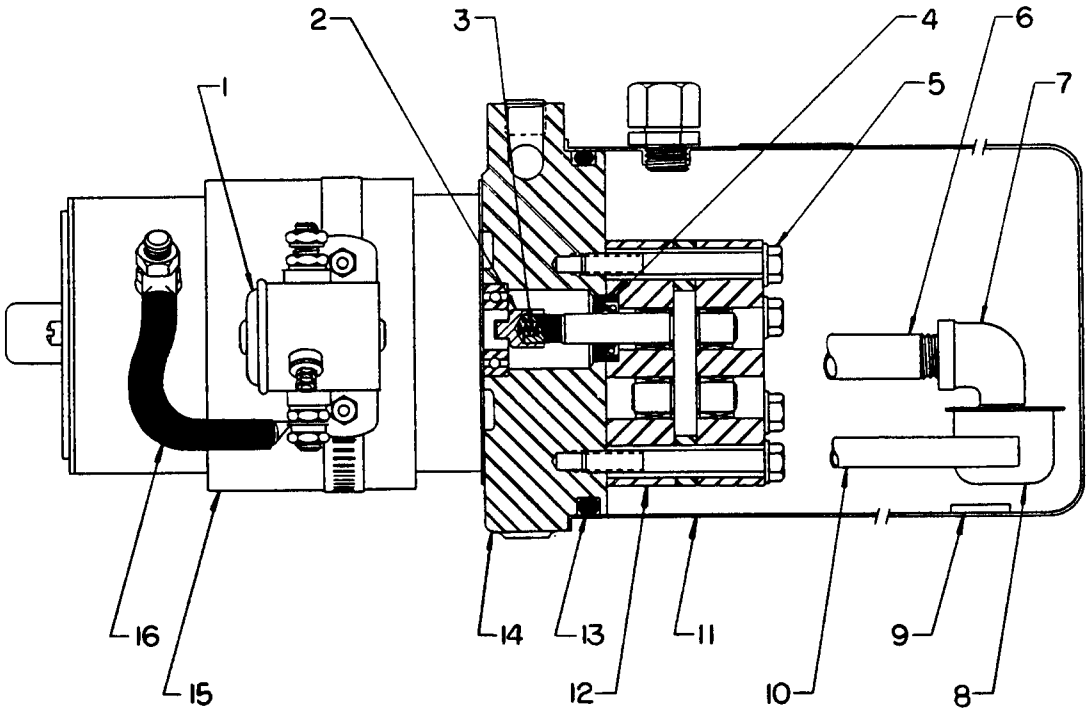
TITLE	SWING MOTOR ASSEMBLY		
SIMON AERIALS INC. NEW 19 JUL., 1994		PART NO. 01-231600	PLATE NO. D06.13

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





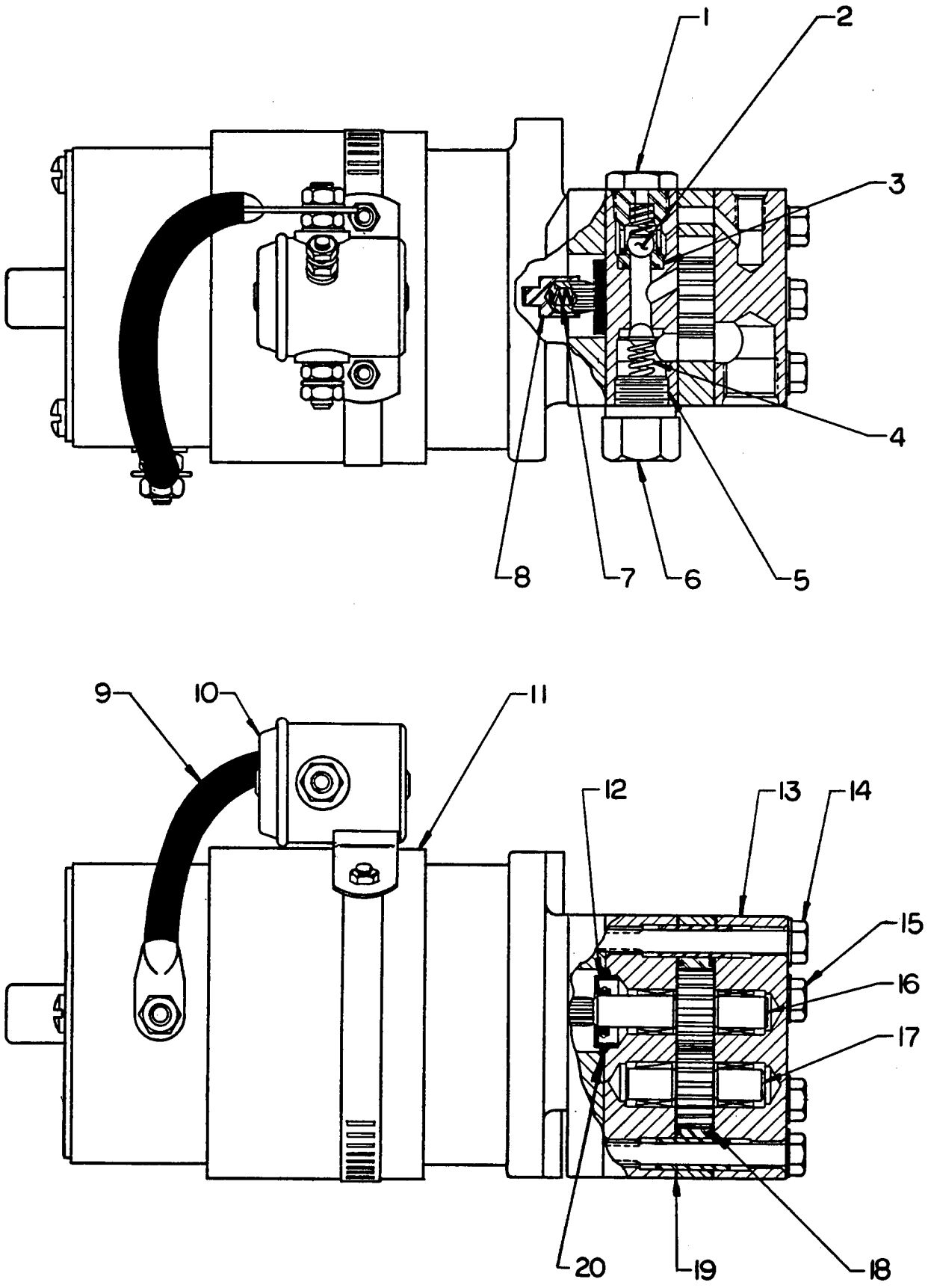
1283/0677

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



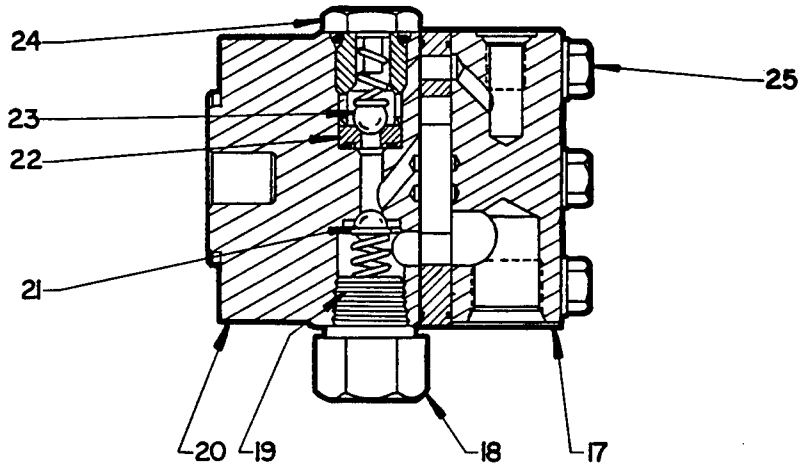
0484/040284

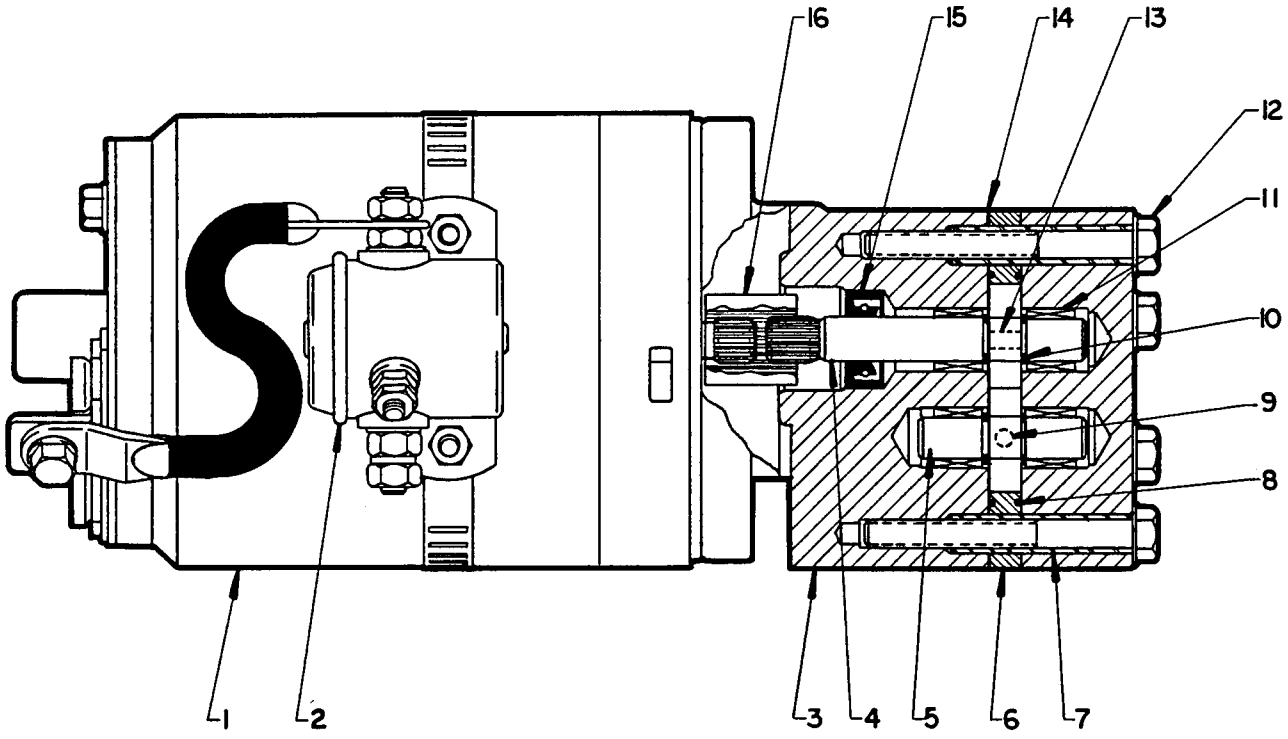
DESCRIPTION	PART NO.
EMERGENCY PUMP	01-007200

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





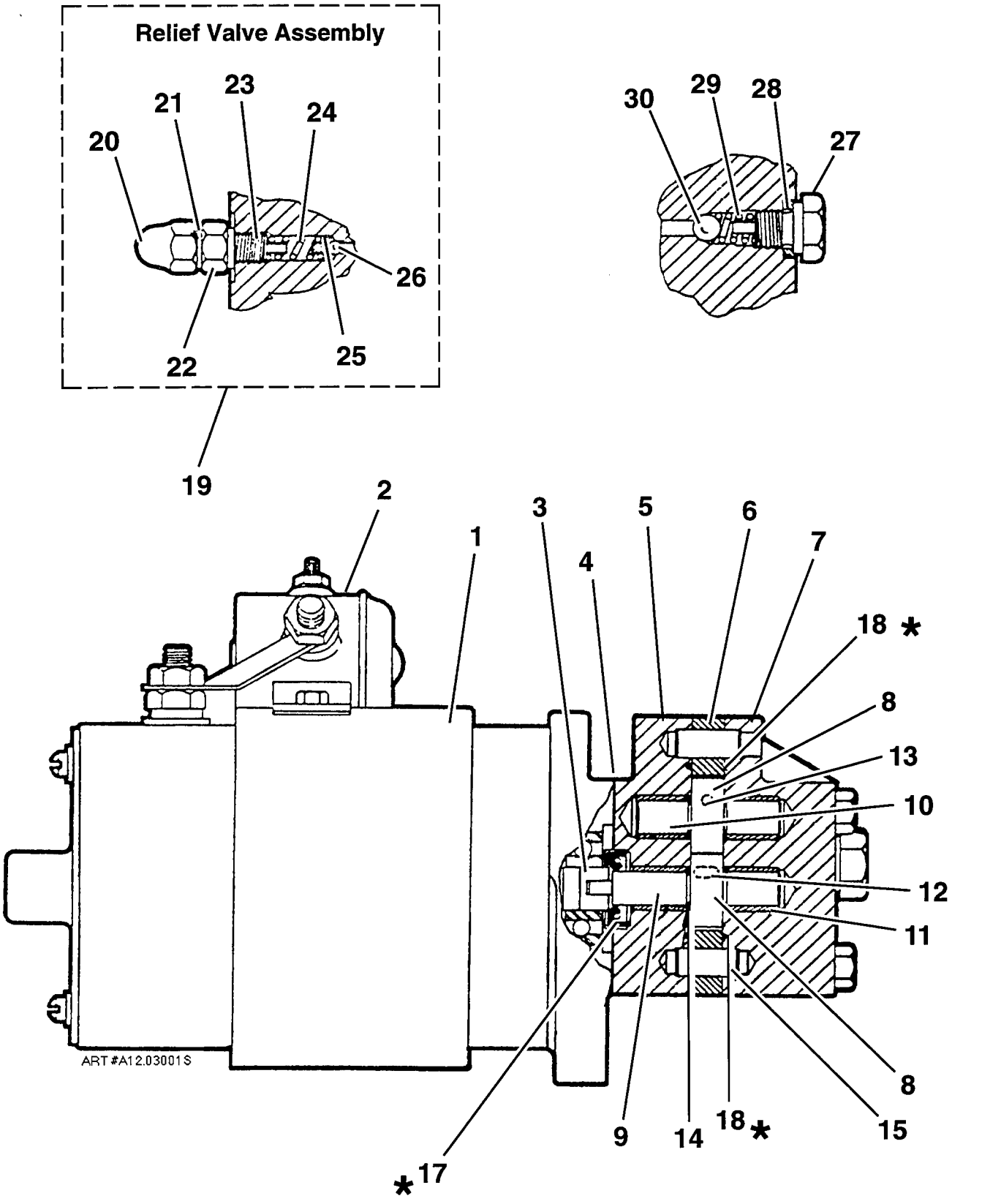
0385/0285

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	

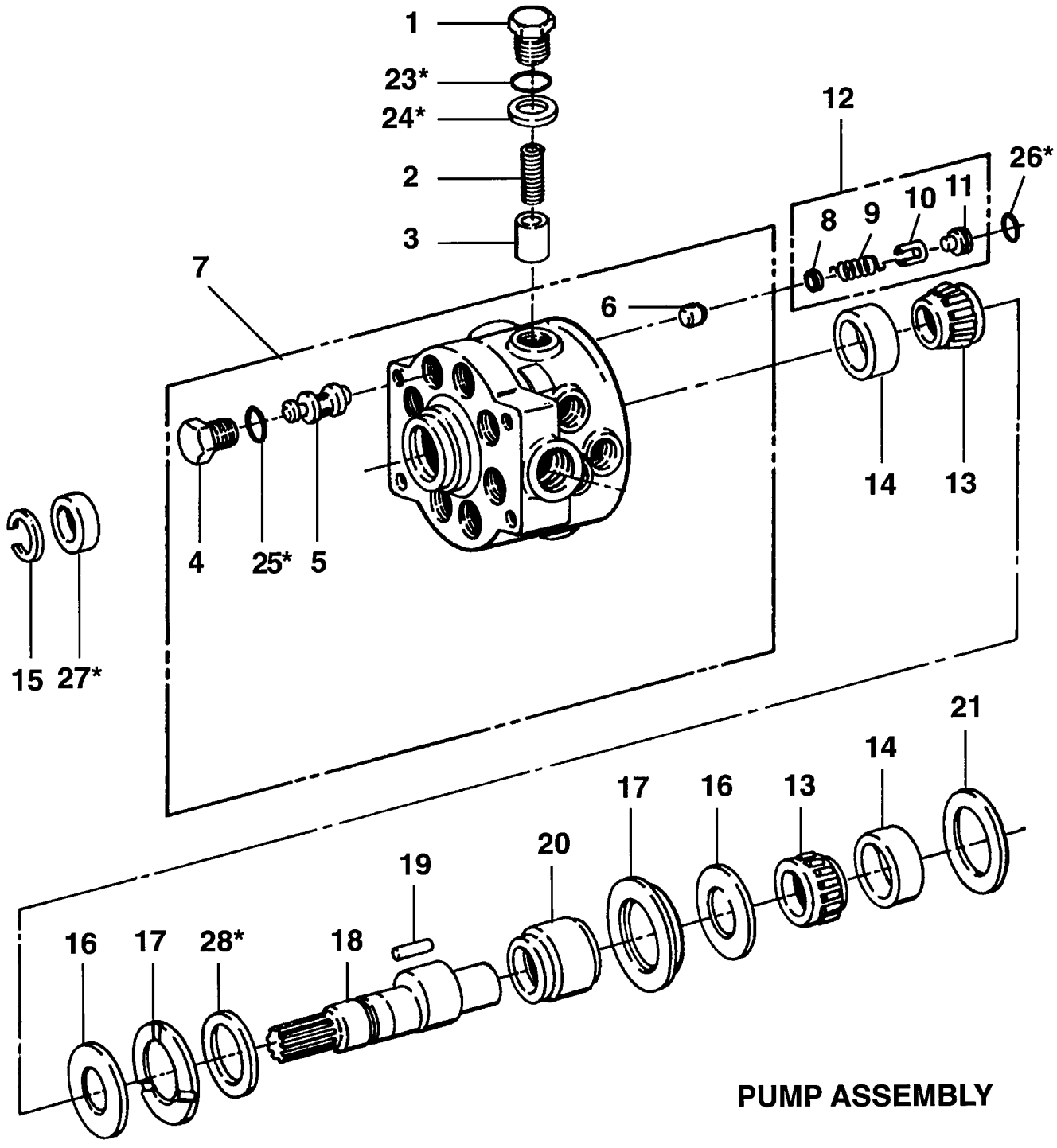


TITLE	EMERGENCY PUMP		
SIMON AERIALS INC. REV. 08 OCT., 1993	PART NO. 01-027200	PLATE NO. D07.04	

PARTS LIST

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

TITLE	HYDRAULIC PUMP (PLATE 1 OF 2)			
PLATE NO. D08.01	**SIMON AERIALS INC.**	REV. 07 APR., 1995 THIS SHEET ONLY	**PART NO.**	01-007000



PUMP ASSEMBLY

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

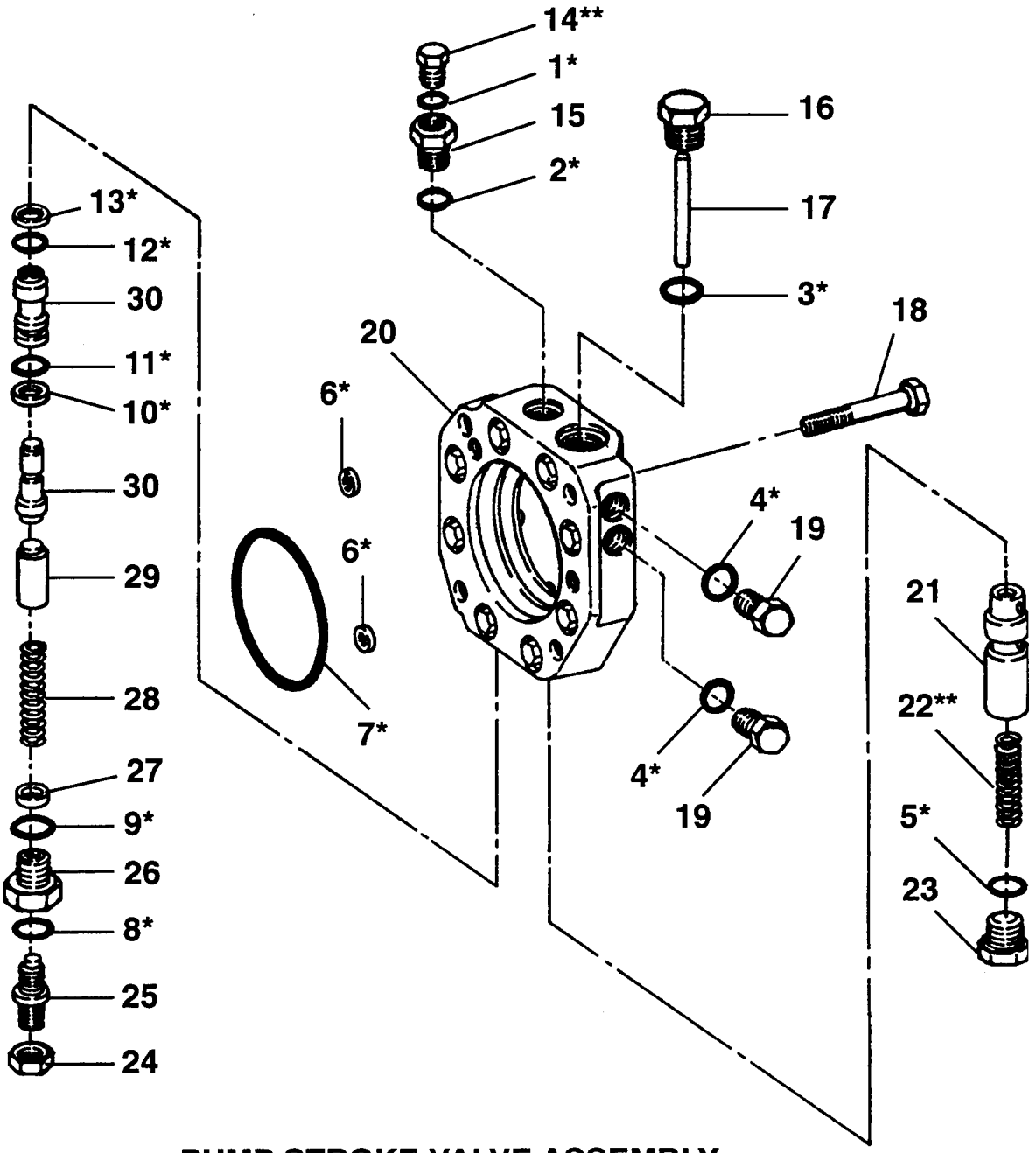
TITLE	HYDRAULIC PUMP (PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 9/17/91	PART NO. 01-007000	PLATE NO. D08.01	

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



PUMP STROKE VALVE ASSEMBLY

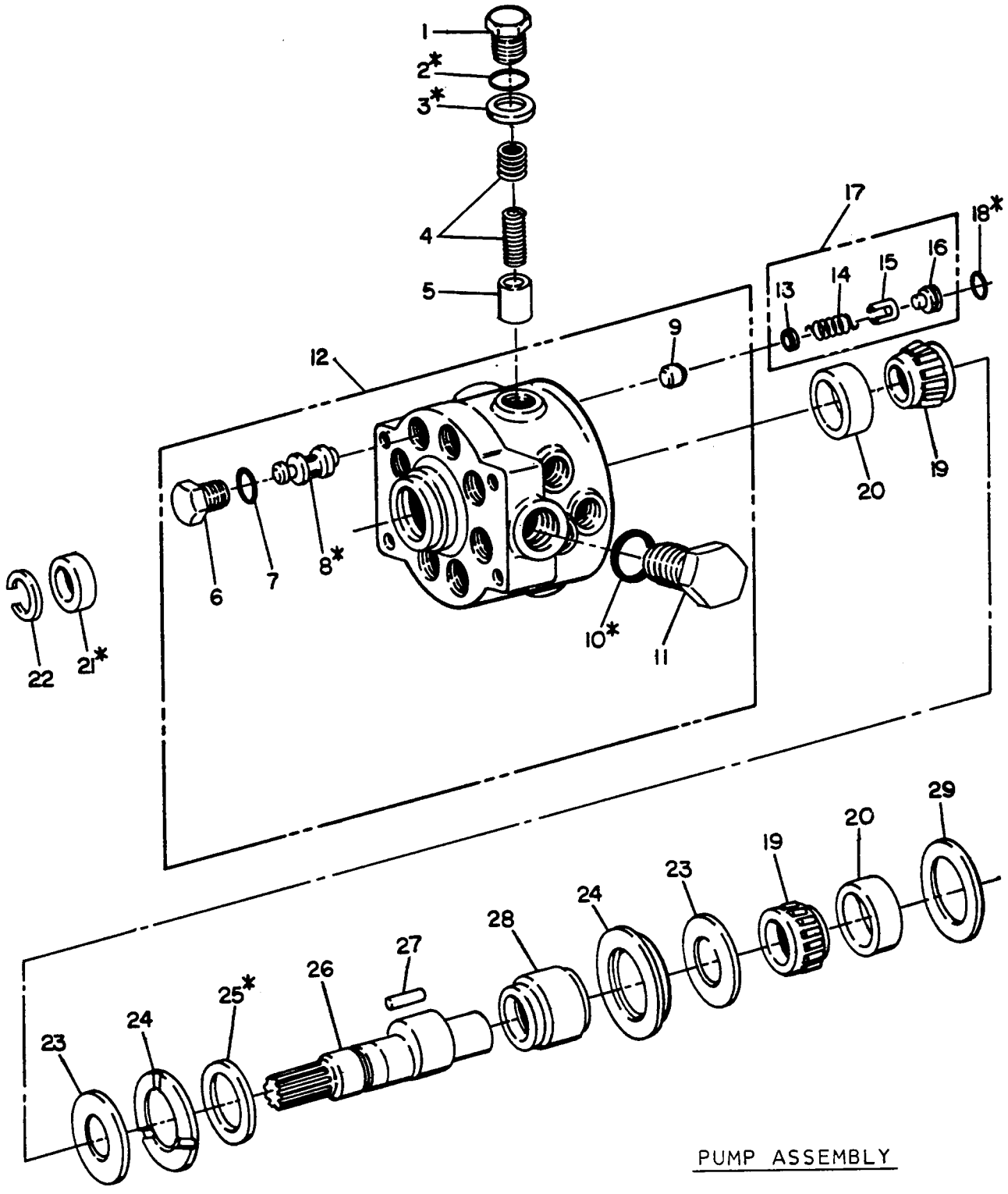
Note: Items in seal kit identified by an asterisk (*).
Item with double asterisk (**) not used, removal required.

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

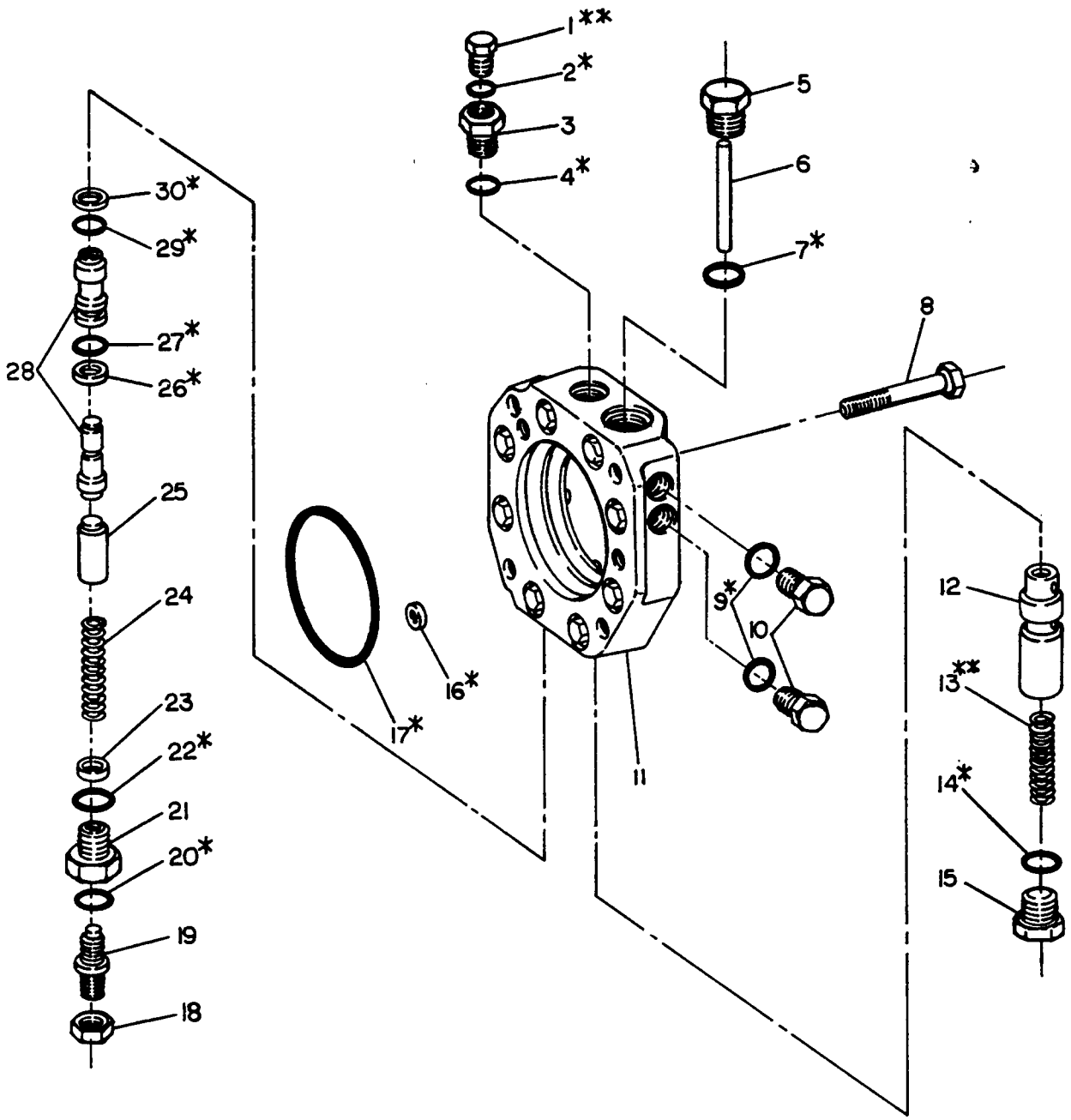
0684/0983

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/N 01-006601
**NOT USED, REQUIRES REMOVAL

0684/0983

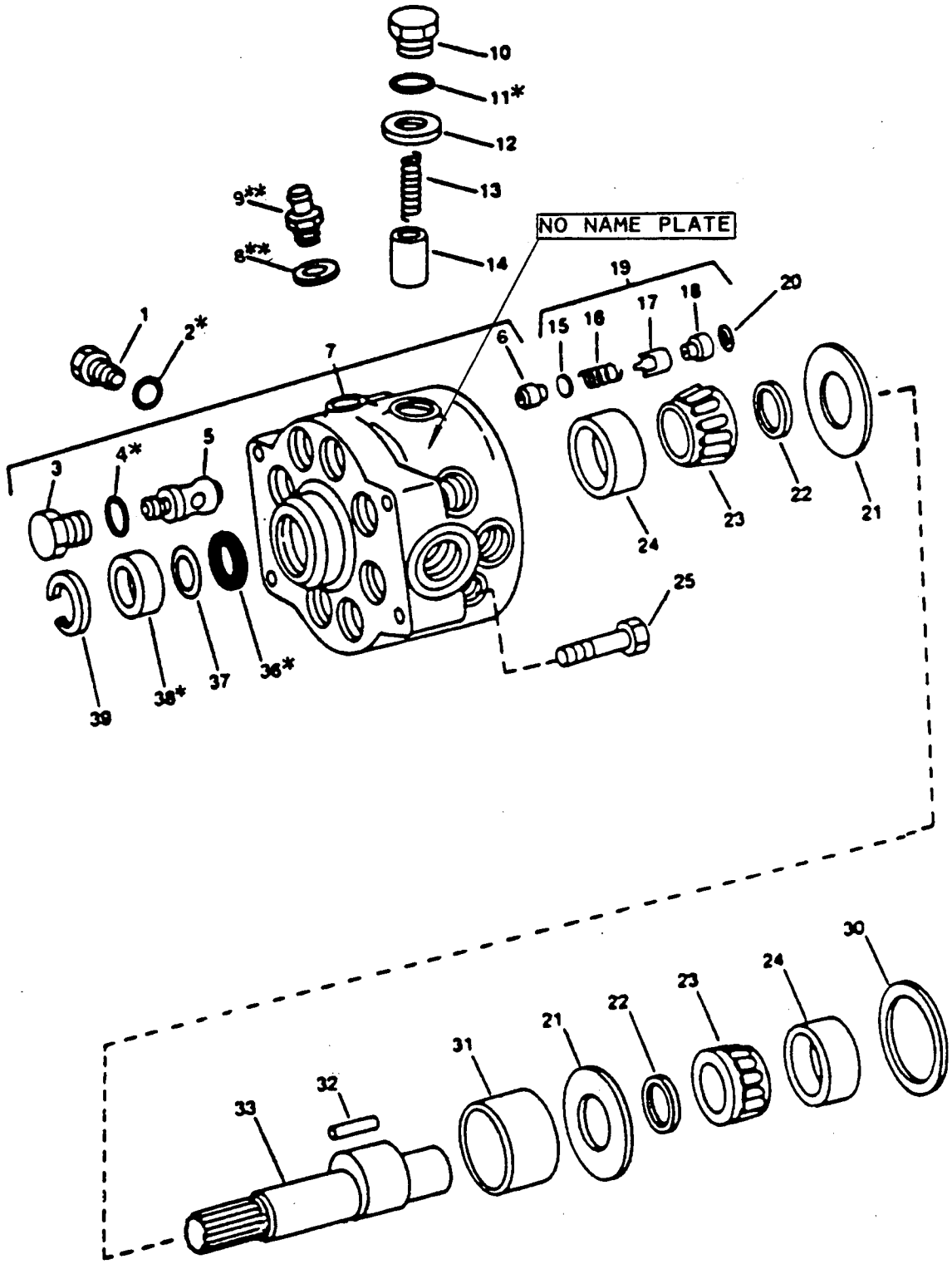
SHEET 2 OF 2

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
*	01-031403		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

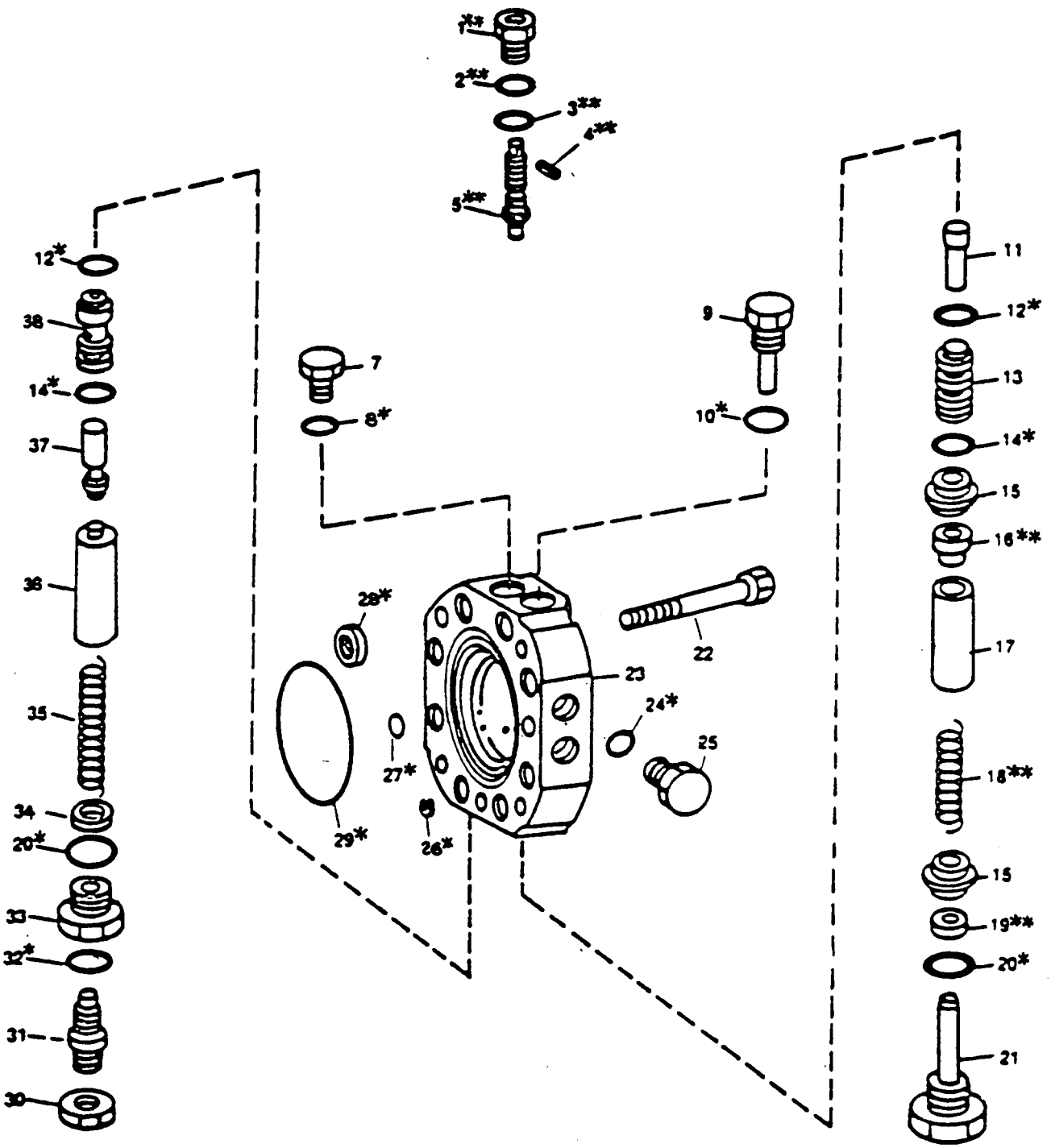
1084/0677

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

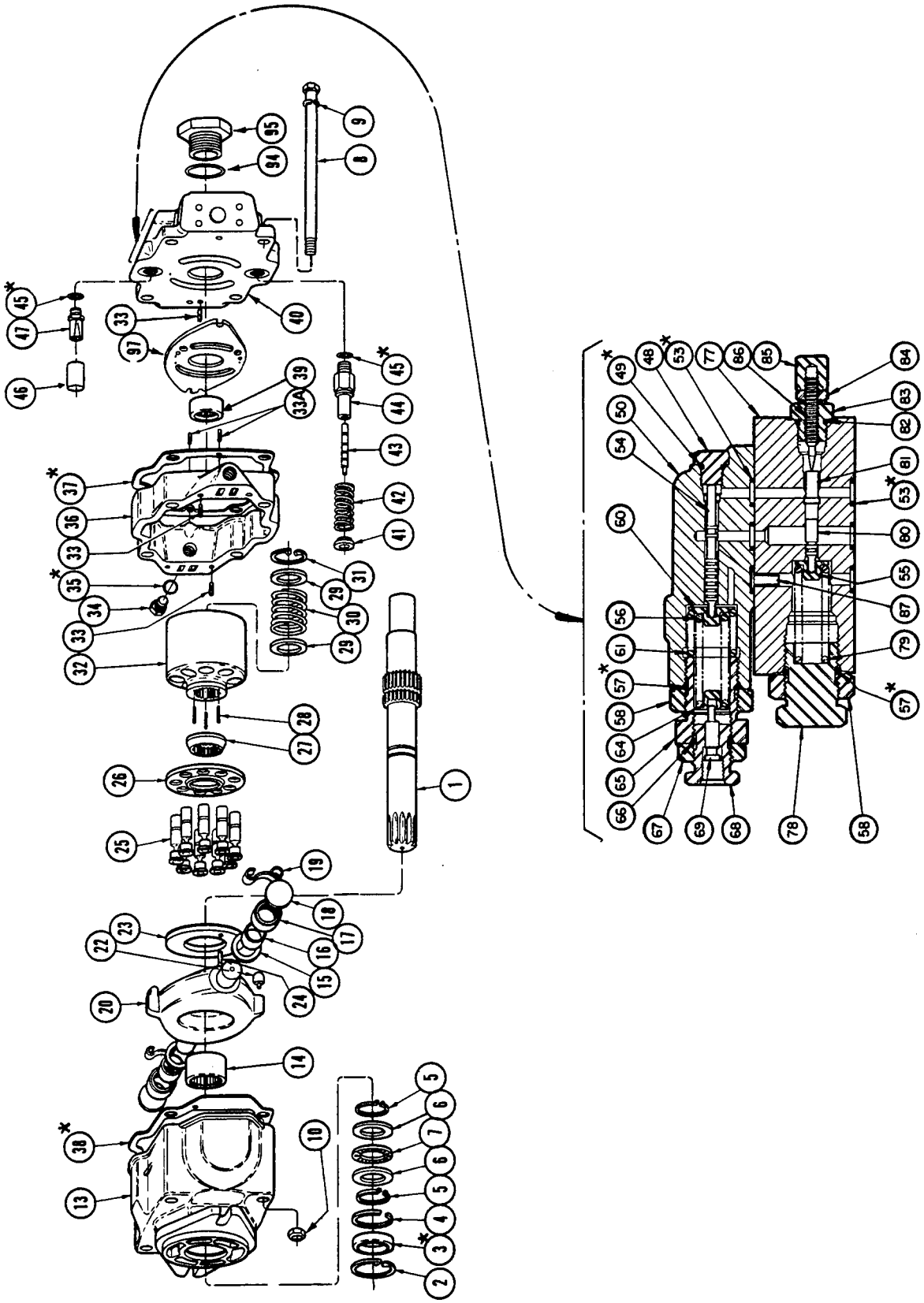
1084/0677

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



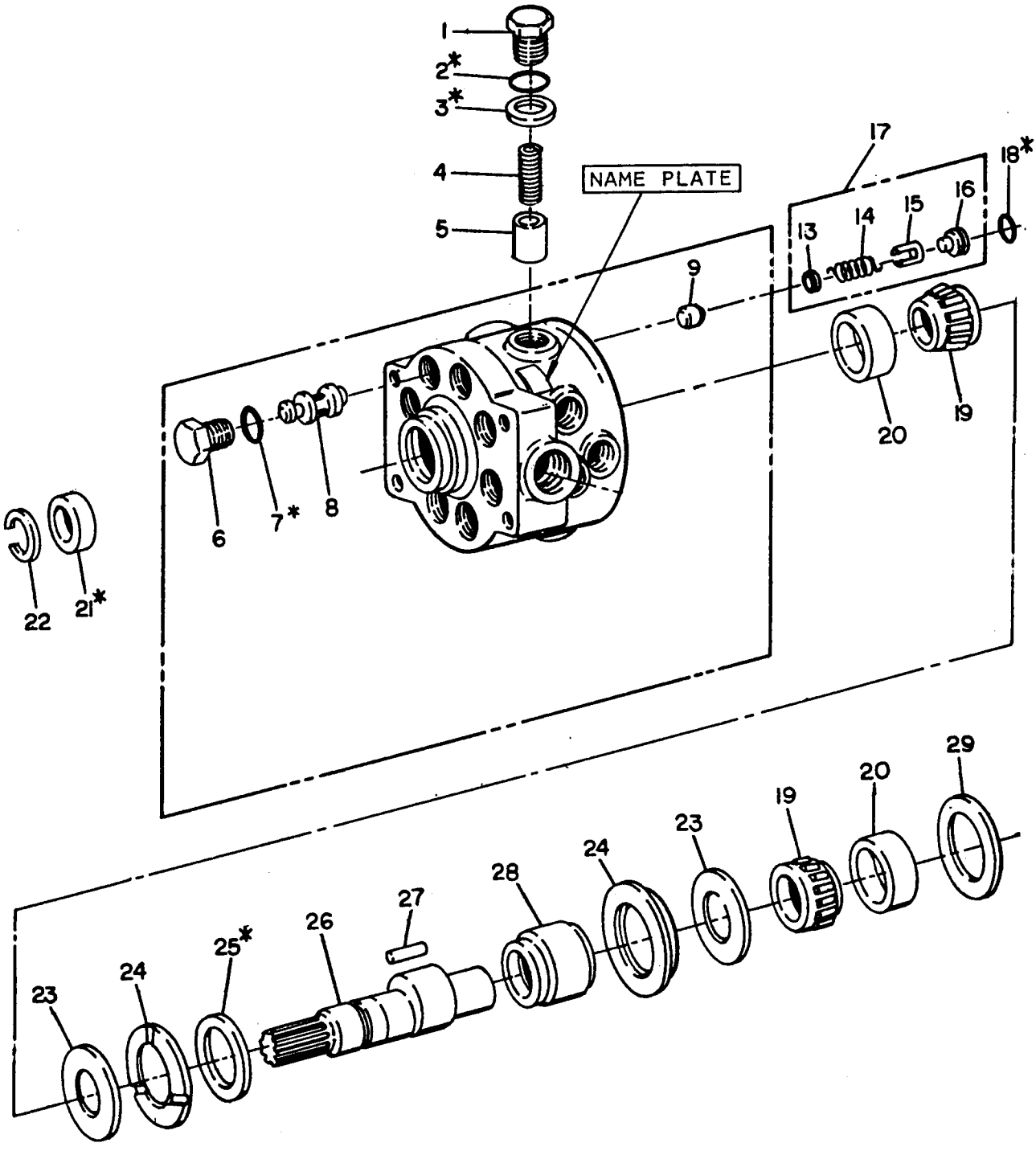
0485/0385

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



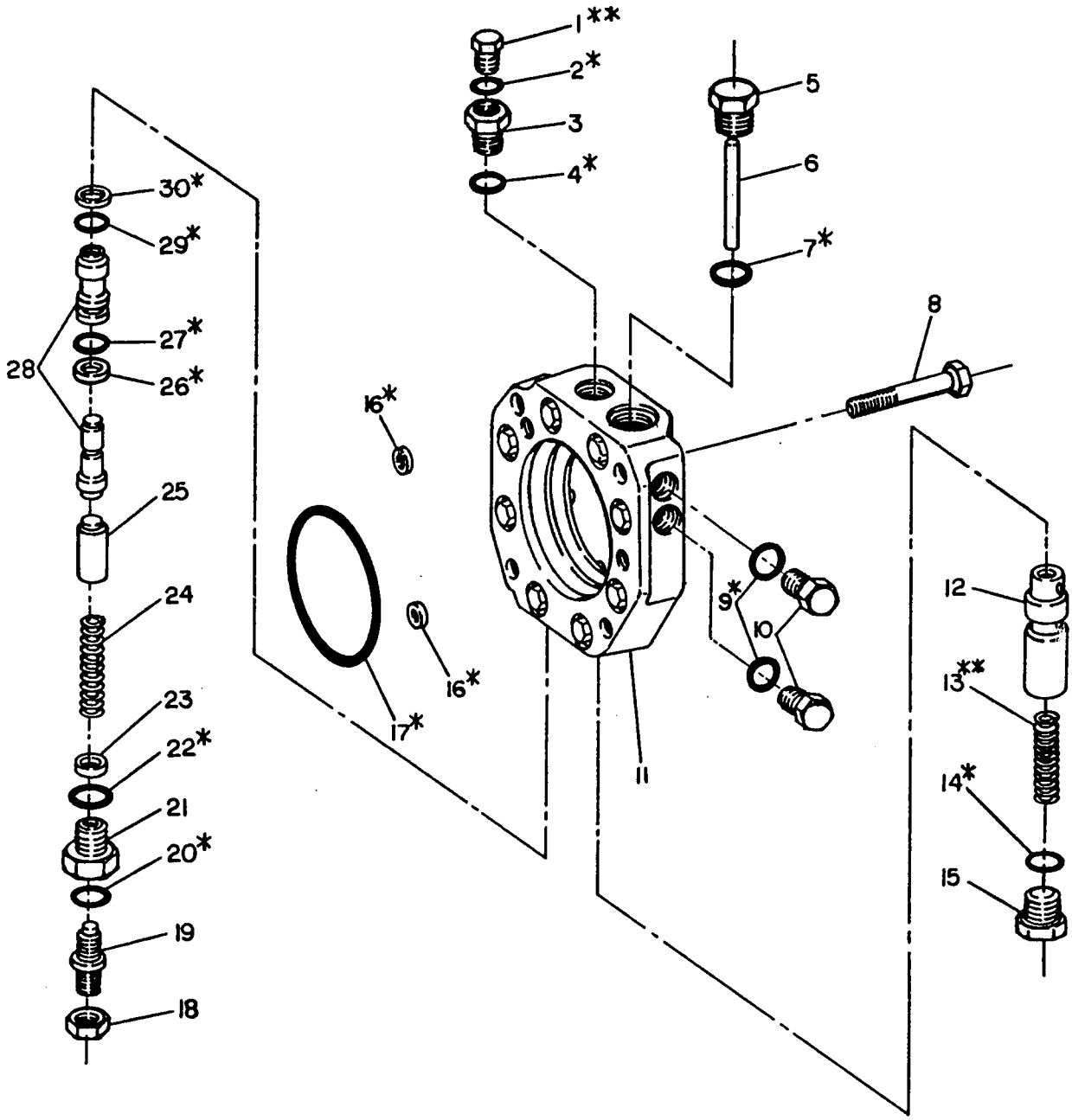
PUMP ASSEMBLY

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:

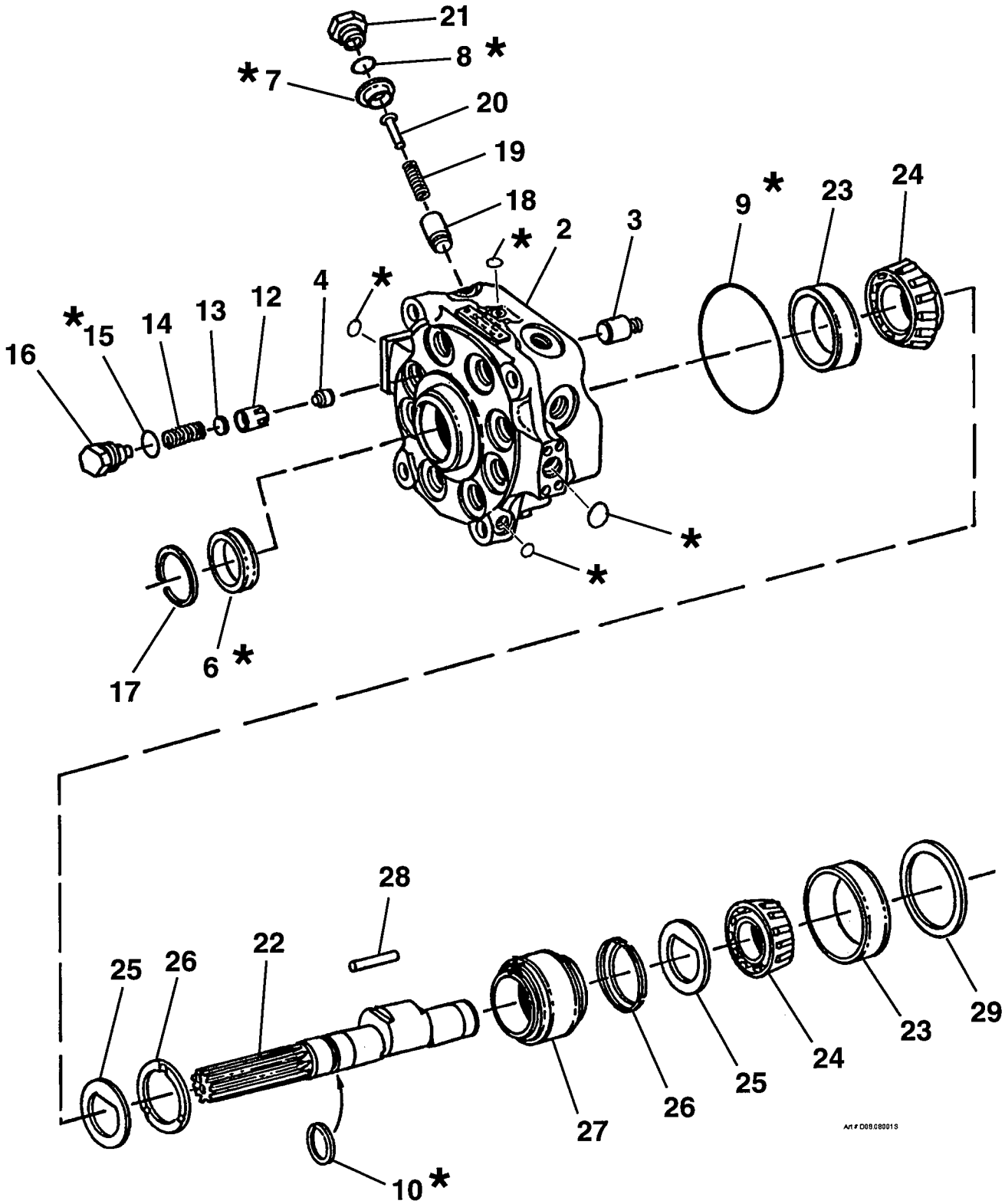
**NOT USED, REQUIRES REMOVAL

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 asterisks, 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



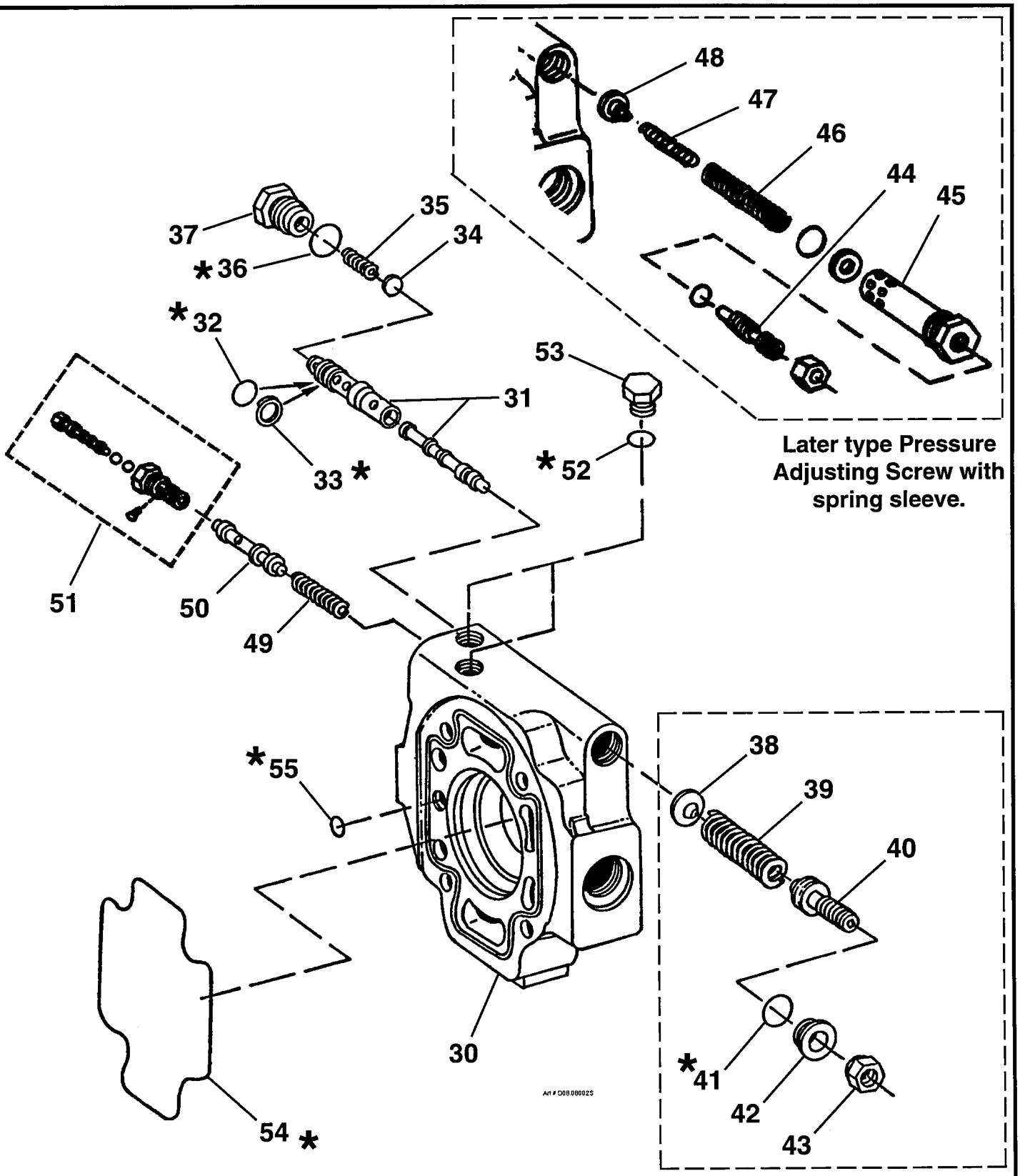
TITLE	HYDRAULIC PUMP ASSEMBLY (PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 09/27/91	PART NO. 01-018600	PLATE NO. D08.08	

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.			REV.	PART NO.
D08.08	**SIMON AERIALS INC.**		05/24/91	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

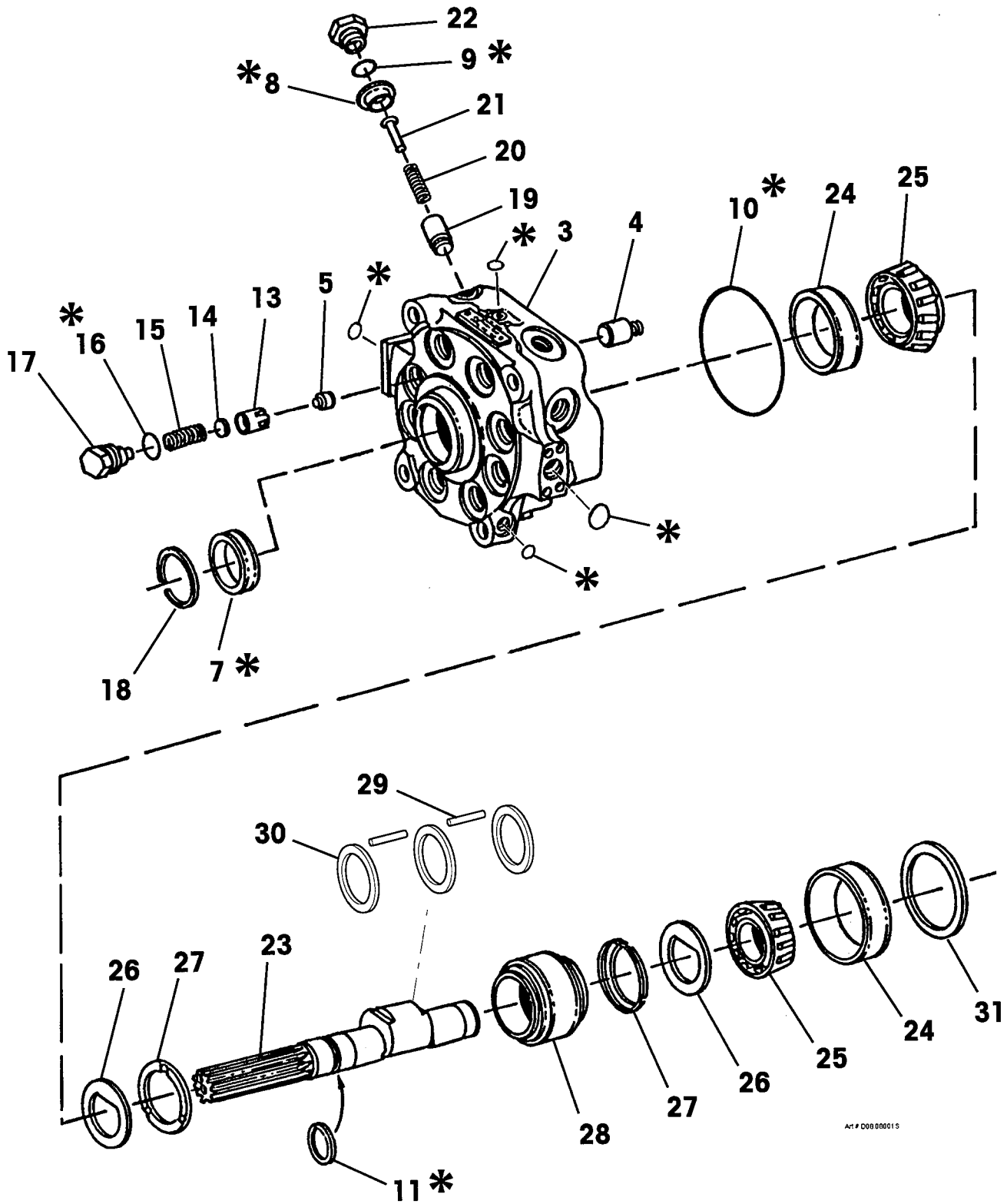
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			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 D08. | PLATE NO. 13 | PAGE 01 | 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					
PART NO.	REV. A	DATED 08 OCT., 1996	SECTION D08.	PLATE NO. 13	PAGE 01	

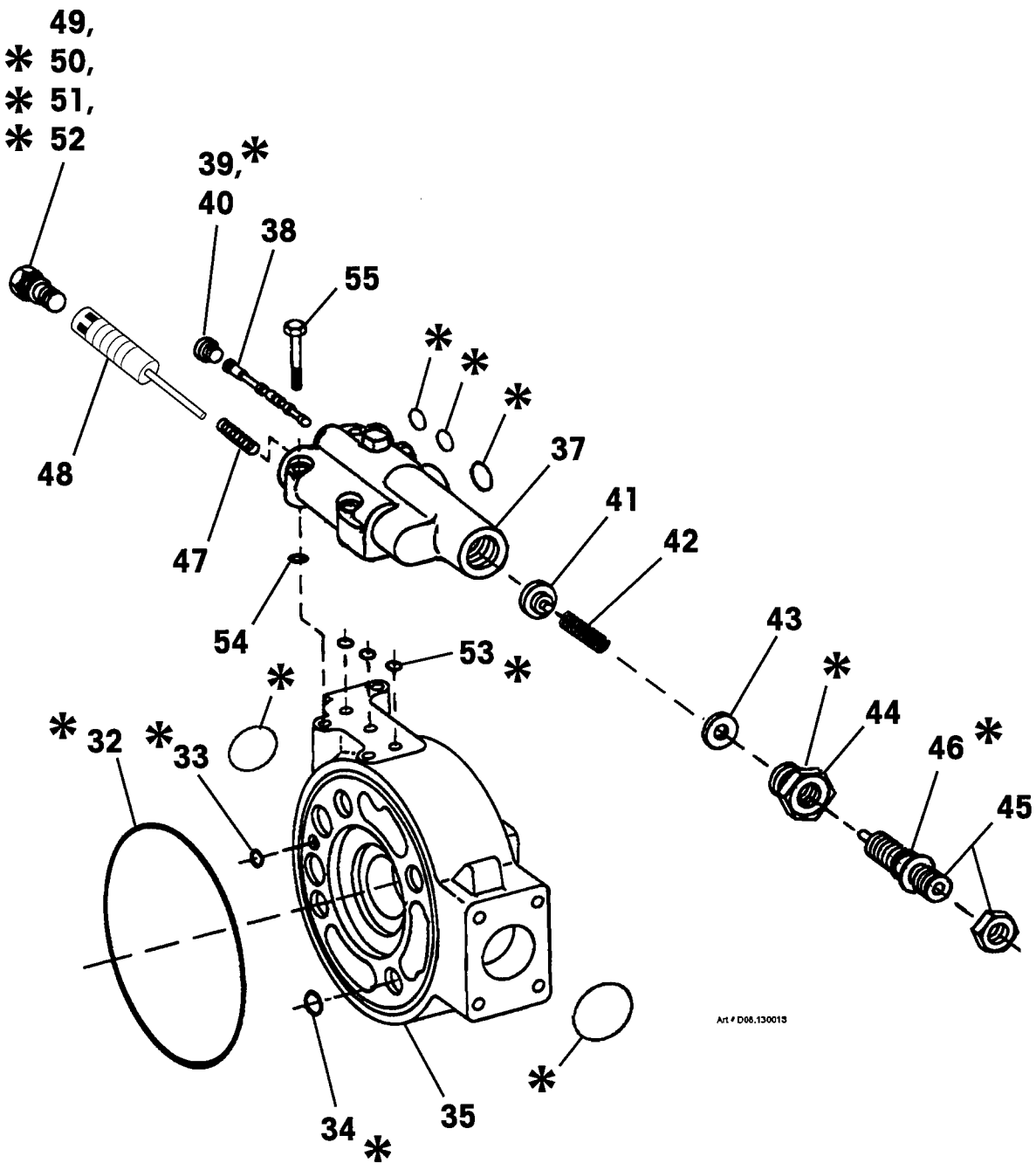
PARTS LIST

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

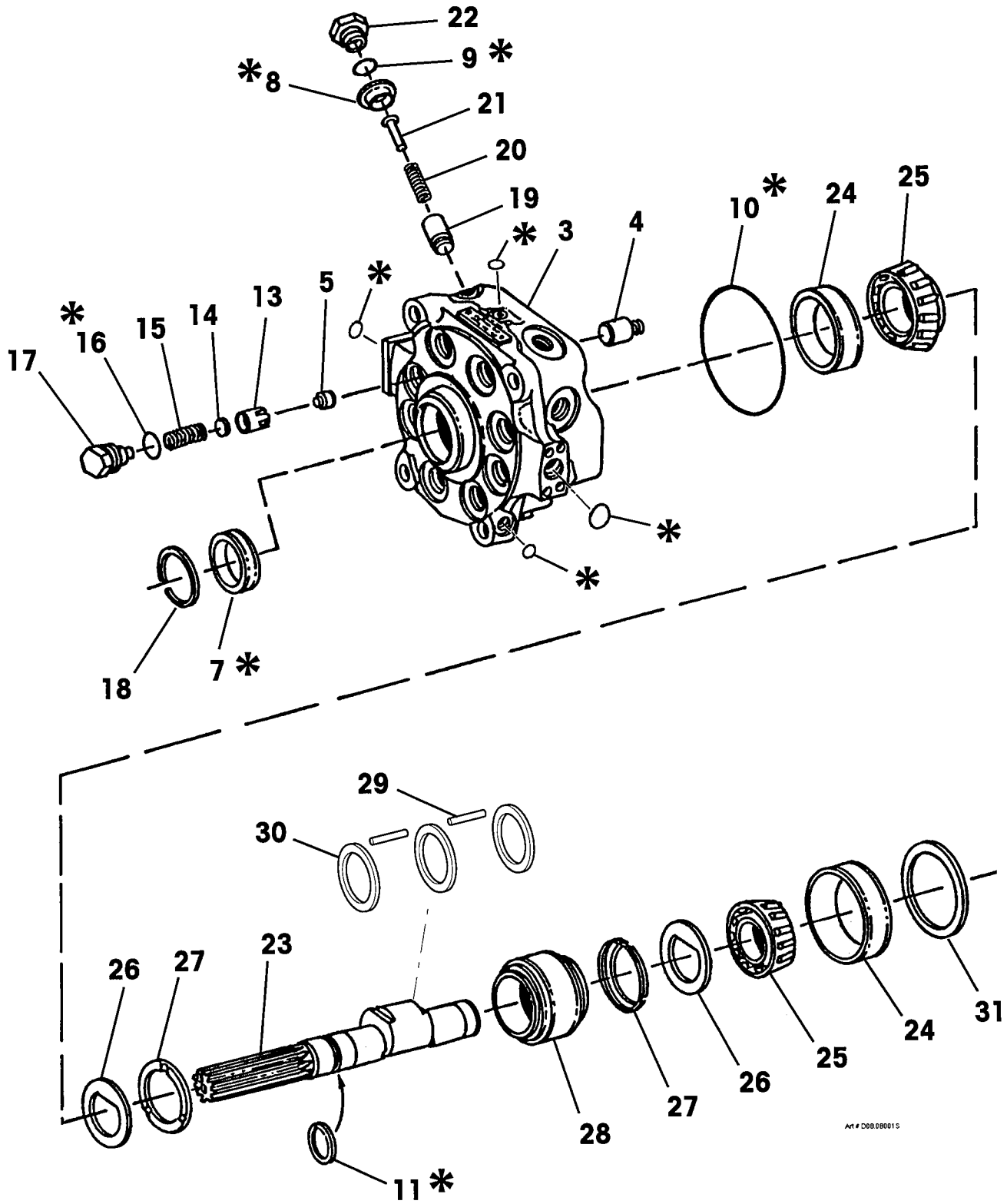
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			The following items **are not** included with the Hydraulic Pump:	
			Suction Fittings:	
56	06-214400		FLANGE, SUCTION FITTING (2" SAE flange) (32 CFHC) (includes two halves and mounting hardware)	1
57			FITTING, SUCTION	1
	06-216100		90°, 2" stem to 2" hose (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 V50X-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

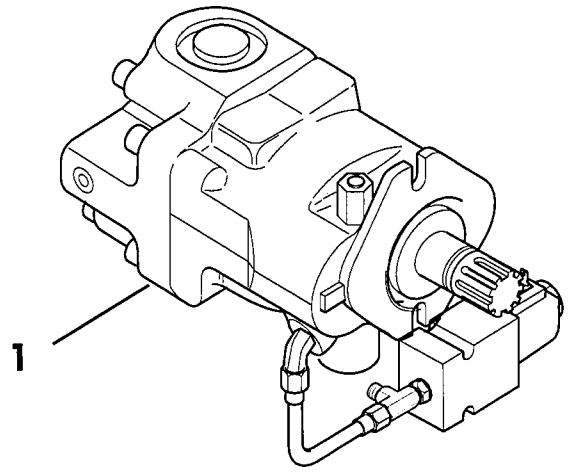
PARTS LIST

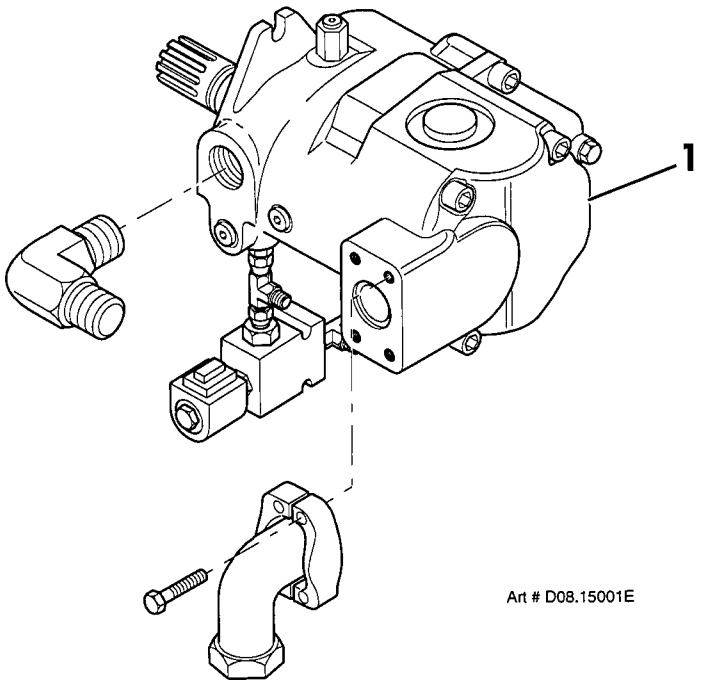
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			PUMP ASSEMBLY, HYDRAULIC	1
	01-236900		50 c.c./ rev. output (Nameplate is marked "PAVC 65 X **3224**")	
	01-237800		65 c.c./ rev. output (Nameplate is marked "PAVC 65 X **3232**")	
	01-239800		65 c.c./ rev. output , 3500 psi capacity (Nameplate is marked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

TITLE HYDRAULIC PUMP ASSEMBLY

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

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 # D08.15001E

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

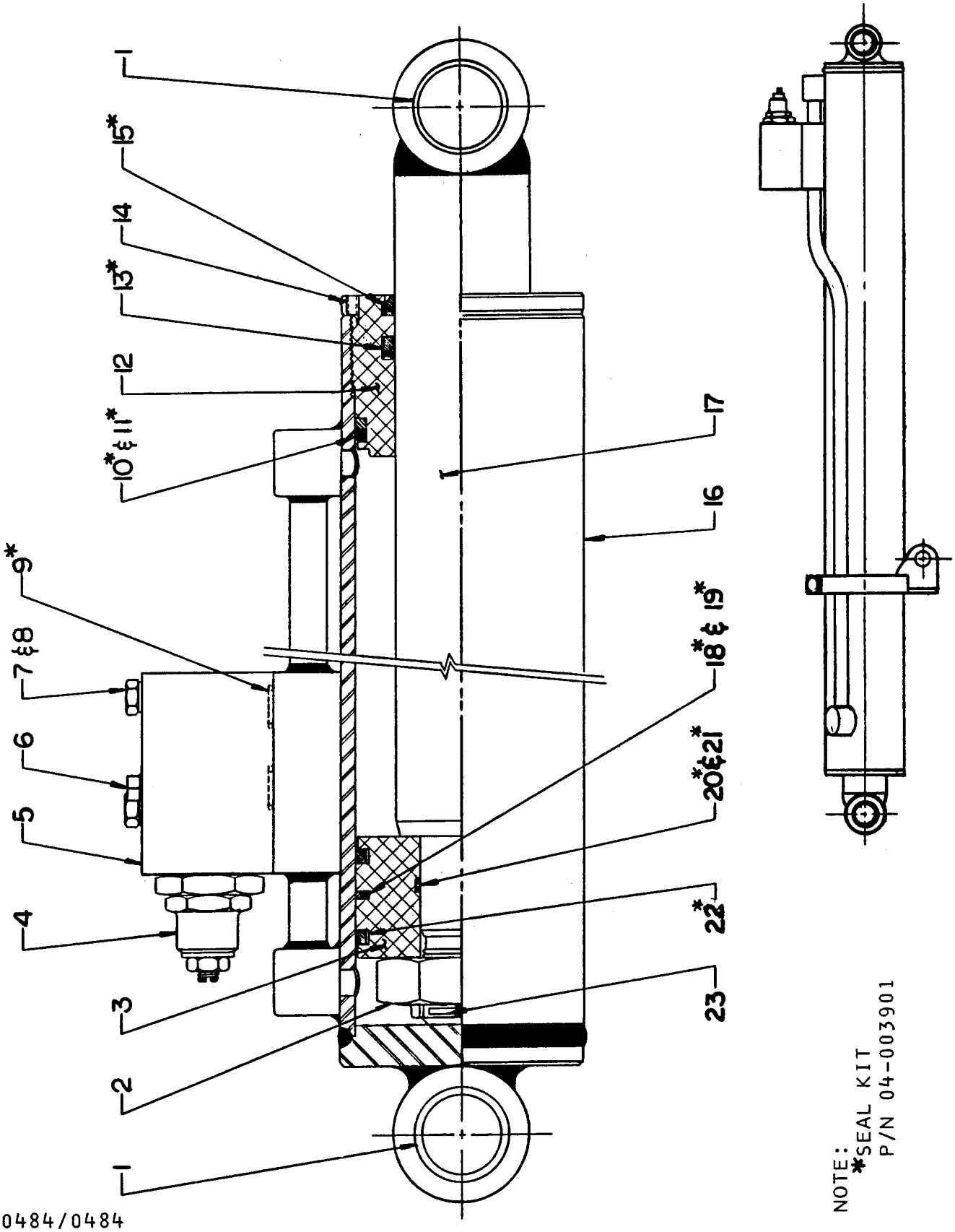
HYDRAULIC PUMP ASSEMBLY

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

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			BUSHING	4
2			PISTON NUT	1
3	04-003902		PISTON	1
4	04-021402		HOLDING VALVE	1
5			VALVE BLOCK ASSEMBLY	1
6			PIPE PLUG	1
7			HEX HEAD CAP SCREW	4
8			LOCKWASHER	4
9*			'O' RING	2
10*			'O' RING	1
11*			BACK-UP RING	1
12			HEAD GLAND	1
13*			U-CUP	1
14			SET SCREW	1
15*			WIPER	1
16			ROD	1
17			CASE	1
18*			'O' RING	1
19*			PISTON SEAL	1
20*			'O' RING	1
21*			BACK-UP RING	2
22*			PISTON RING	2
23			COTTER KEY	1
*	04-003901		SEAL KIT	

DESCRIPTION	PART NO.
LIFT CYLINDER	04-003900-1

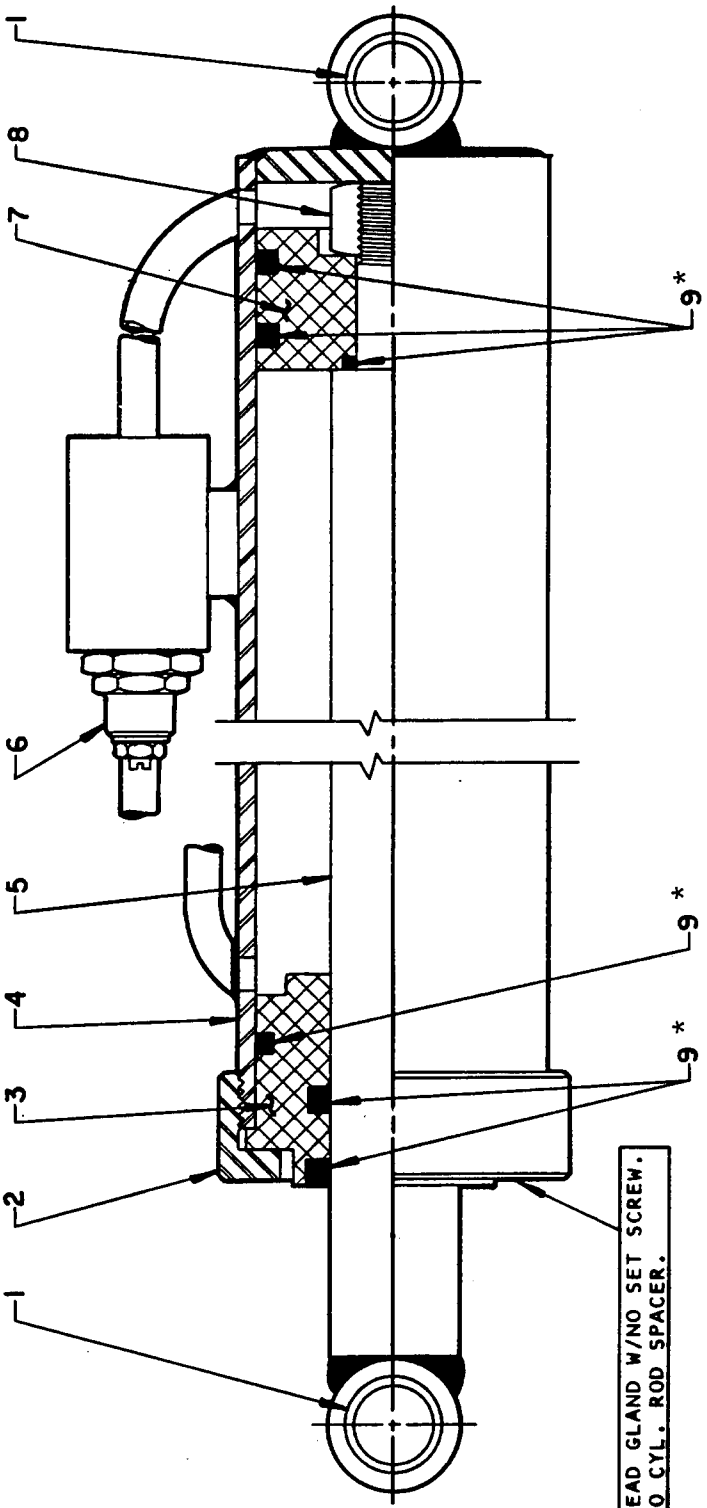


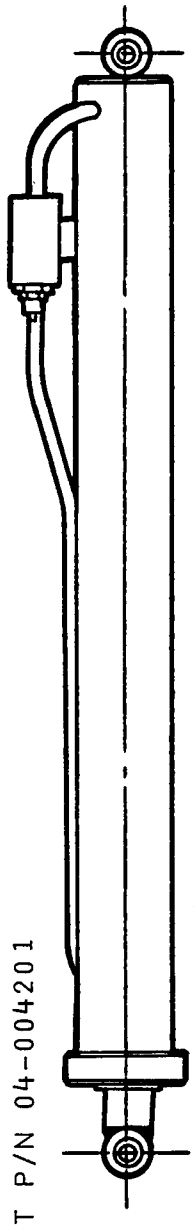
DESCRIPTION	PART NO.
LIFT CYLINDER	04-003900-1

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	04-004203		BUSHING	4
2	04-004205		RETAINING NUT	1
3	04-004204		HEAD GLAND	1
4			CASE	1
5	04-004206		ROD	1
6	04-021402		HOLDING VALVE	1
7			PISTON	1
8			PISTON NUT	1
9	04-004201		SEAL KIT	1

DESCRIPTION	PART NO.
LIFT CYLINDER	04-004200





NOTE:
* SEAL KIT P/N 04-004201

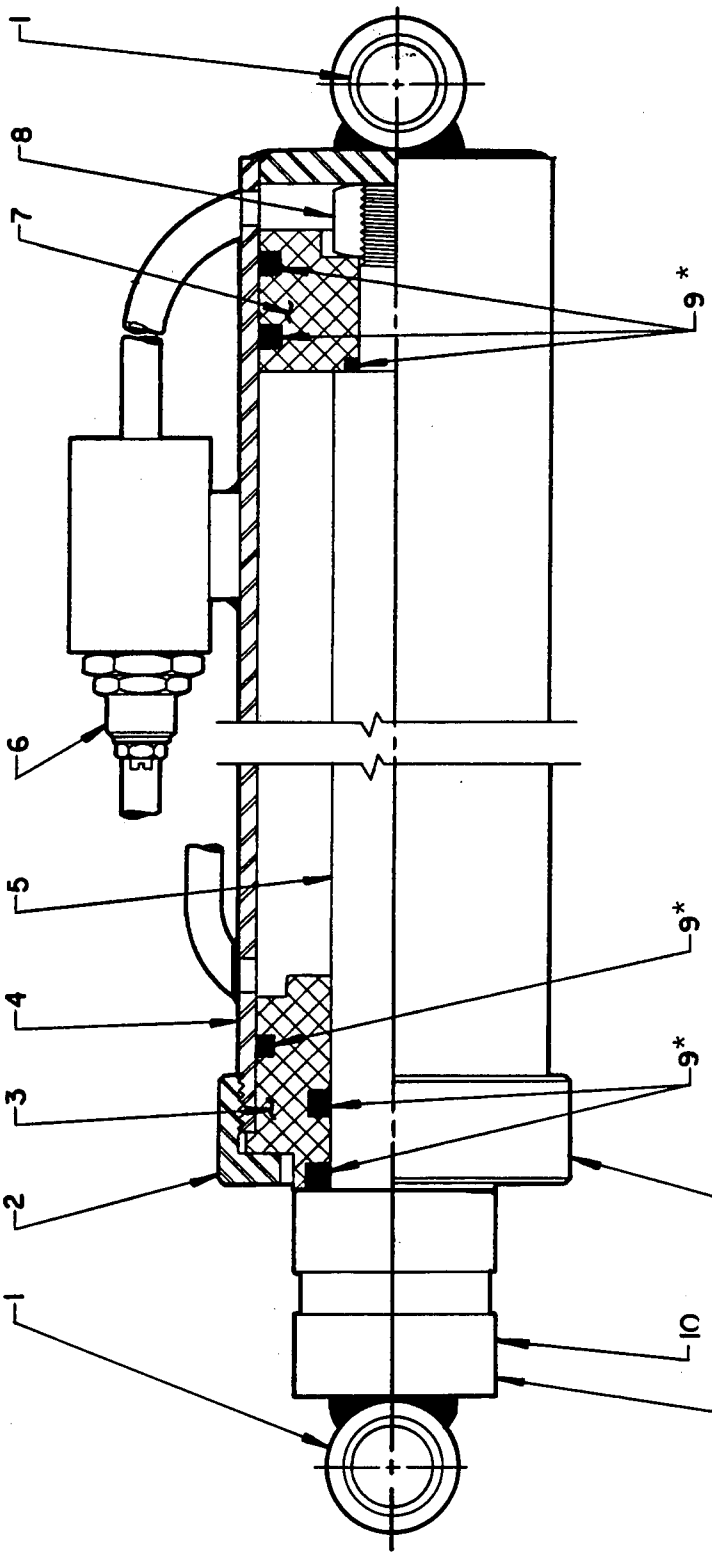
0284/0281

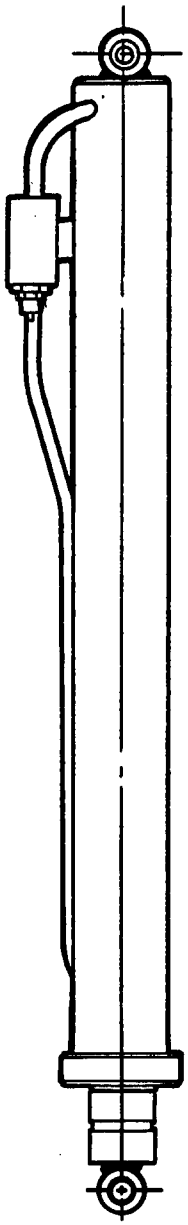
DESCRIPTION	PART NO.
LIFT CYLINDER	04-004200

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			BUSHING	4
2			RETAINING NUT	1
3			HEAD GLAND	1
4			CASE	1
5			ROD	1
6	04-021402		HOLDING VALVE	1
7			PISTON	1
8			PISTON NUT	1
9	04-004201		SEAL KIT	1
10	SBD-205891-5		SPACER	1

DESCRIPTION	PART NO.
LIFT CYLINDER	04-004200-1





NOTE:
* SEAL KIT P/N 04-004201

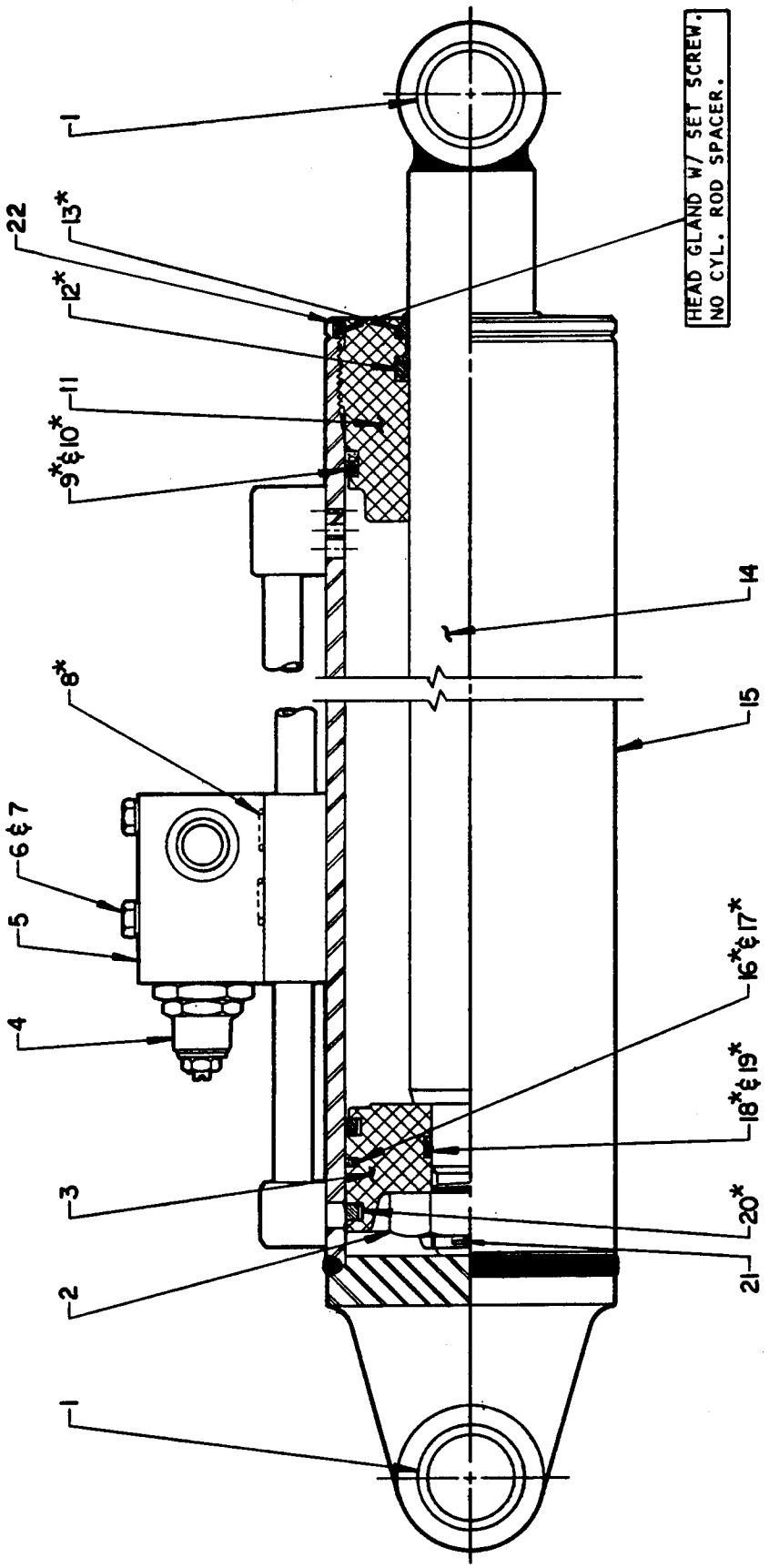
0284/0281

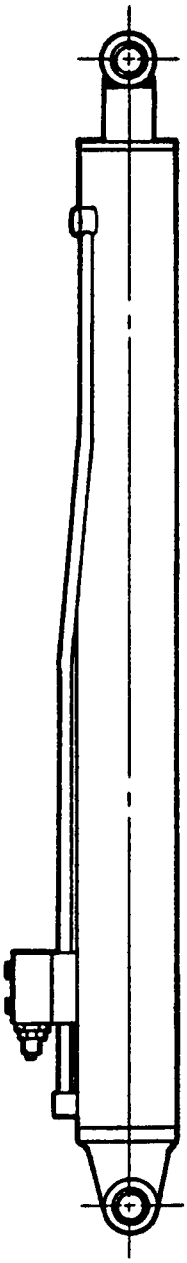
DESCRIPTION	PART NO.
LIFT CYLINDER	04-004200-1

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			BUSHING	4
2			PISTON NUT	1
3			PISTON	1
4	04-021402		HOLDING VALVE	1
5			VALVE BLOCK	1
6			HEX HEAD CAP SCREW	4
7			LOCKWASHER	4
8*			'O' RING	2
9*			'O' RING	1
10*			BACK-UP RING	1
11			HEAD GLAND	1
12*			ROD SEAL	1
13*			WIPER	1
14			ROD	1
15			CASE	1
16*			PISTON SEAL	1
17*			'O' RING	1
18*			'O' RING	1
19*			BACK-UP RING	1
20*			PISTON RING	2
21			COTTER KEY	1
22			SET SCREW	1
*	04-009801		SEAL KIT	1

DESCRIPTION	PART NO.
LIFT CYLINDER	04-009800





NOTE:
* SEAL KIT P/N 04-009801

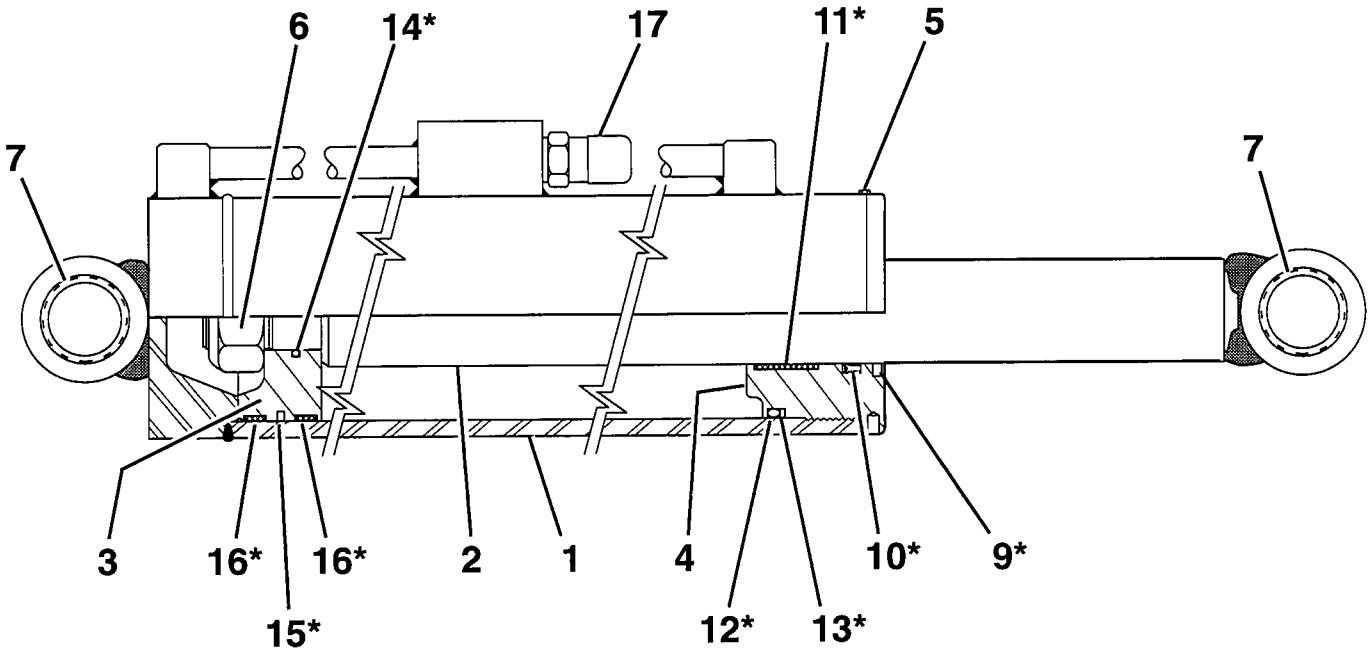
0284/0284

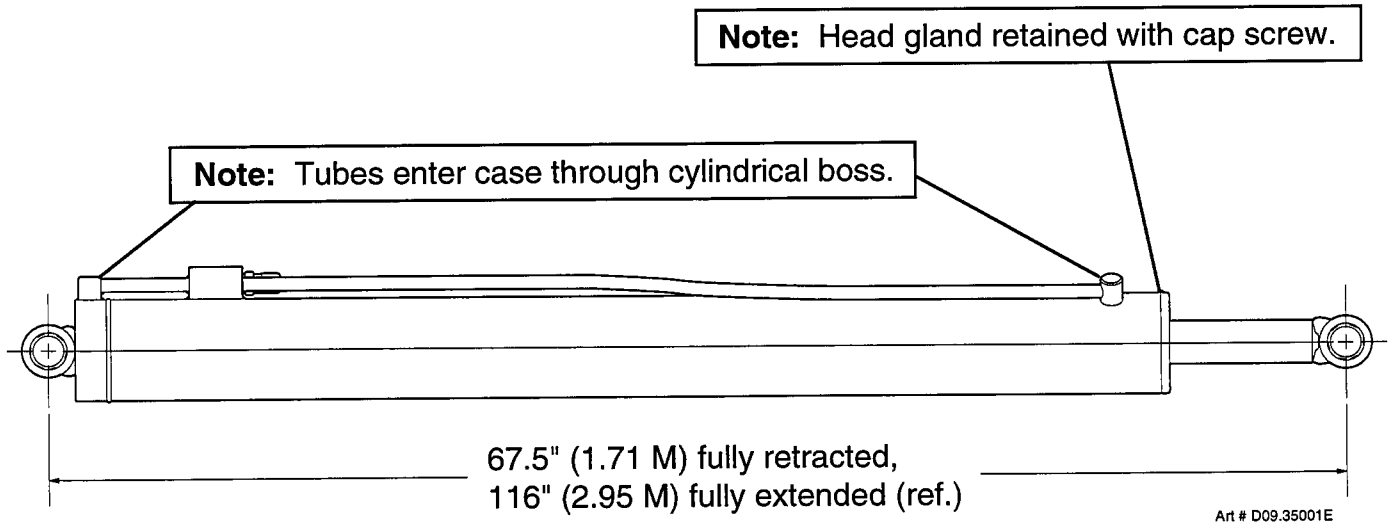
DESCRIPTION	PART NO.
LIFT CYLINDER	04-009800

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Identifying features of cylinder 04-031200: 1. Tubes enter case through cylindrical boss. 2. Head gland retained with cap screw.	
1			CASE, CYLINDER	1
2			ROD, CYLINDER	1
3			PISTON	1
4			GLAND, HEAD	1
5			CAP SCREW, HEAD GLAND RETAINING	1
6			NUT, PISTON ROD	1
7			BUSHING	4
8			SEAL KIT (not for use with water-glycol hydraulic fluid)	1
			Note: Items in kit identified by asterisk (*).	
9			WIPER, ROD	1
10			SEAL, ROD	1
11			BUSHING, ROD	1
12			"O"-RING	1
13			WASHER, BACKUP	1
14			"O"-RING	1
15			SEAL, PISTON	1
16			BUSHING, PISTON	2
			The following items **are not** part of the cylinder assembly:	
17	04-027902		VALVE, HOLDING (stamped **"CBEA-CAN"**)	1

TITLE	LIFT CYLINDER, 48.5" (1.23 M) STROKE				
PLATE NO.	D09.35	**SIMON AERIALS INC.**	REV. 11 FEB., 1994	**PART NO.**	04-031200





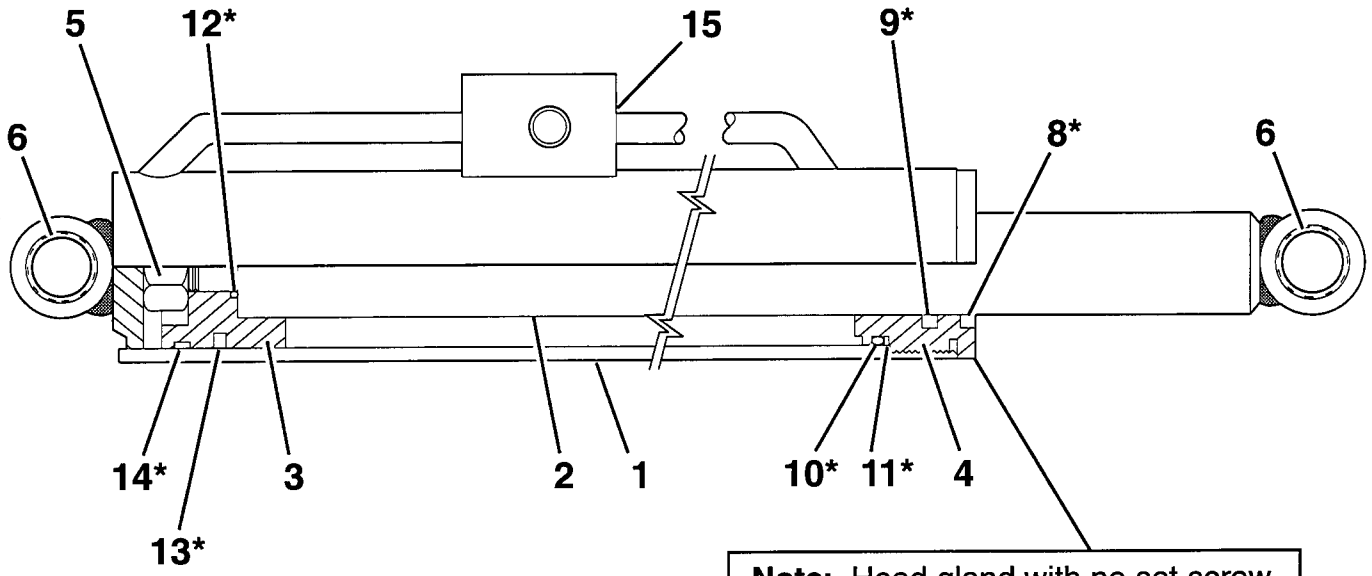
Art # D09.35001E

TITLE	LIFT CYLINDER, 48.5" (1.23 M) STROKE		
SIMON AERIALS INC. REV. 11 FEB., 1994	PART NO. 04-031200	PLATE NO. D09.35	

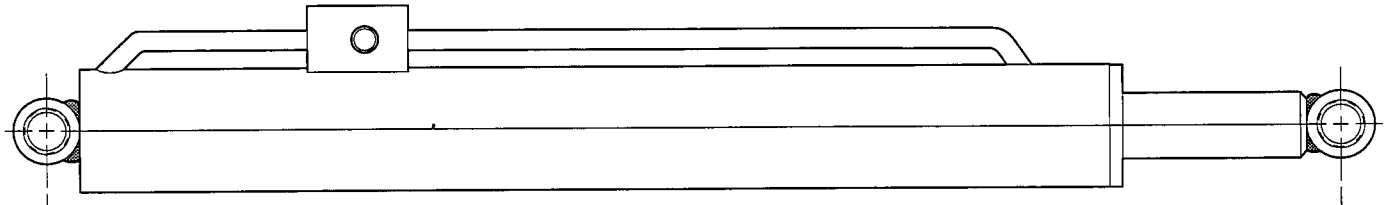
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Identifying features of cylinder 04-027900: 1. Head gland with no set screw.	
1			CASE, CYLINDER	1
2			ROD, CYLINDER	1
3			PISTON	1
4			GLAND, HEAD	1
5			NUT, PISTON ROD (1-1/2"-12)	1
6			BUSHING	4
7	04-027801		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			"O"-RING	1
11			WASHER, BACKUP	1
12			"O"-RING	1
13			SEAL, PISTON	1
14			SEAL, PISTON	1
			The following items **are not** part of the cylinder assembly:	
15	04-027902		VALVE, HOLDING (stamped "**CBEA-CAN**", and factory set at 300 PSI [206.8 Bar] [211 Kg/ cm2])	1

TITLE	LIFT CYLINDER, 48.5" (1.23 M) STROKE			
PLATE NO. D09.36	**SIMON AERIALS INC.**	REV. 24 AUG., 1994 THIS SHEET ONLY	PART NO.	04-027800



Note: Head gland with no set screw.



67.5" (1.71 M) fully retracted,
116" (2.95 M) fully extended (ref.)

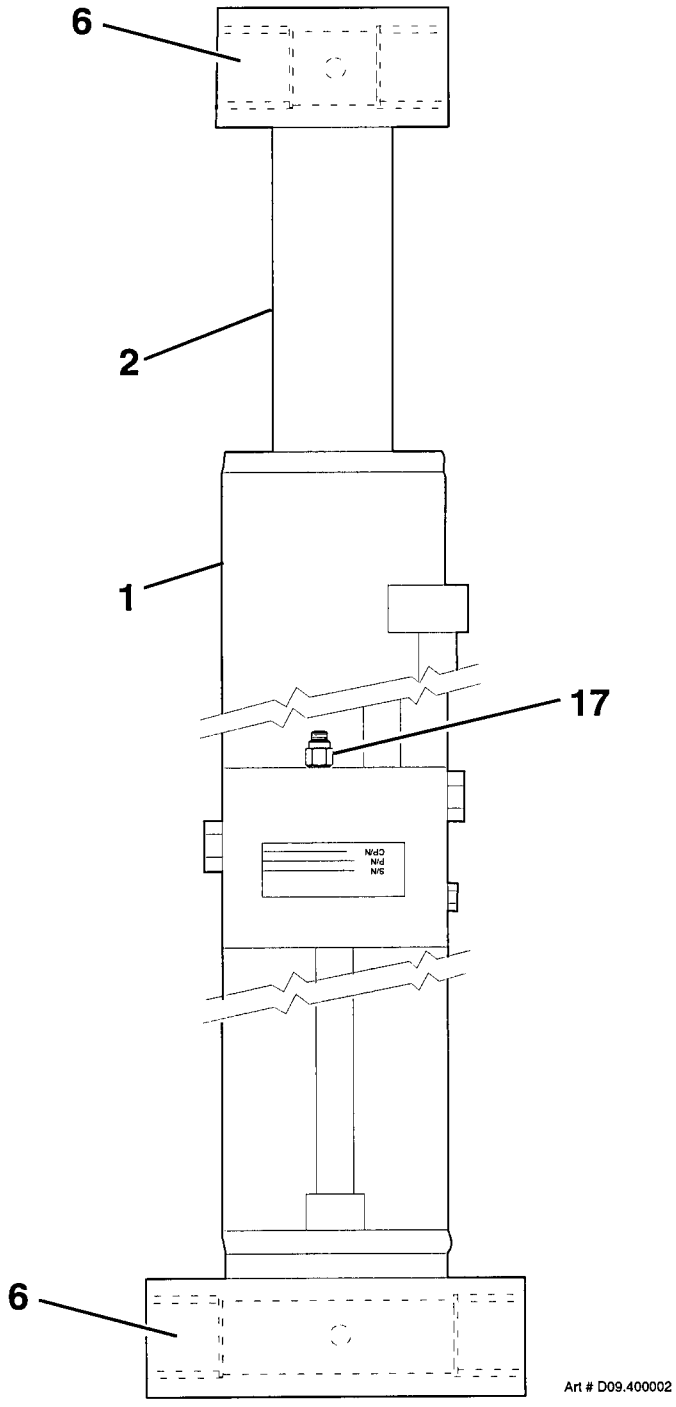
Art # D09.34001E

TITLE	LIFT CYLINDER, 48.5" (1.23 M) STROKE		
SIMON AERIALS INC. NEW 10/04/91	PART NO. 04-027800	PLATE NO. D09.36	

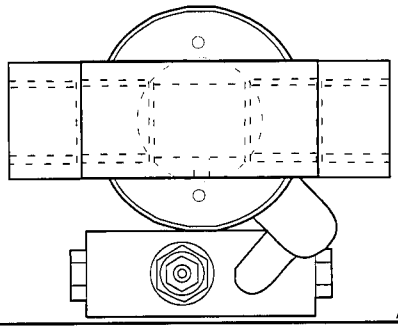
PARTS LIST

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	04-036001		SEAL KIT (not for use with water-glycol hydraulic fluid)	1
			Note: Items in kit identified by asterisk (*).	
8			WIPER, ROD	1
9			SEAL, ROD	1
10			"O"-RING	1
11			RING, BACKUP	1
12			"O"-RING	1
13			RING, BACKUP	1
14			"O"-RING	1
15			SEAL, PISTON	1
16			RING, PISTON WEAR	2
17	04-027902		VALVE, COUNTERBALANCE (Holding valve)	
			(stamped "**CBEA-CAN**") (Factory set at 3000 PSI [206.8 Bar] [211 Kg/ cm^2])	1

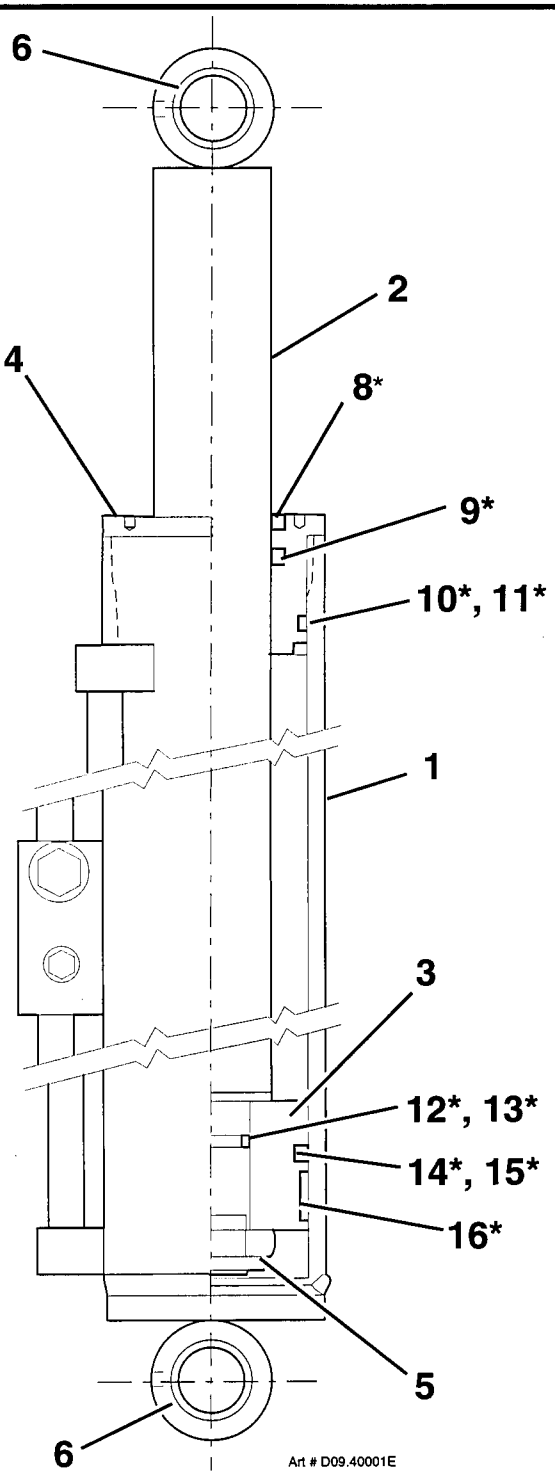
TITLE	LIFT CYLINDER, 48.5" (1.23 M) STROKE			
PLATE NO.	D09.41	**SIMON AERIALS INC.**	REV. 15 FEB., 1995	PART NO. 04-036000



Art # D09.400002



Art # D09.40003E



Art # D09.40001E

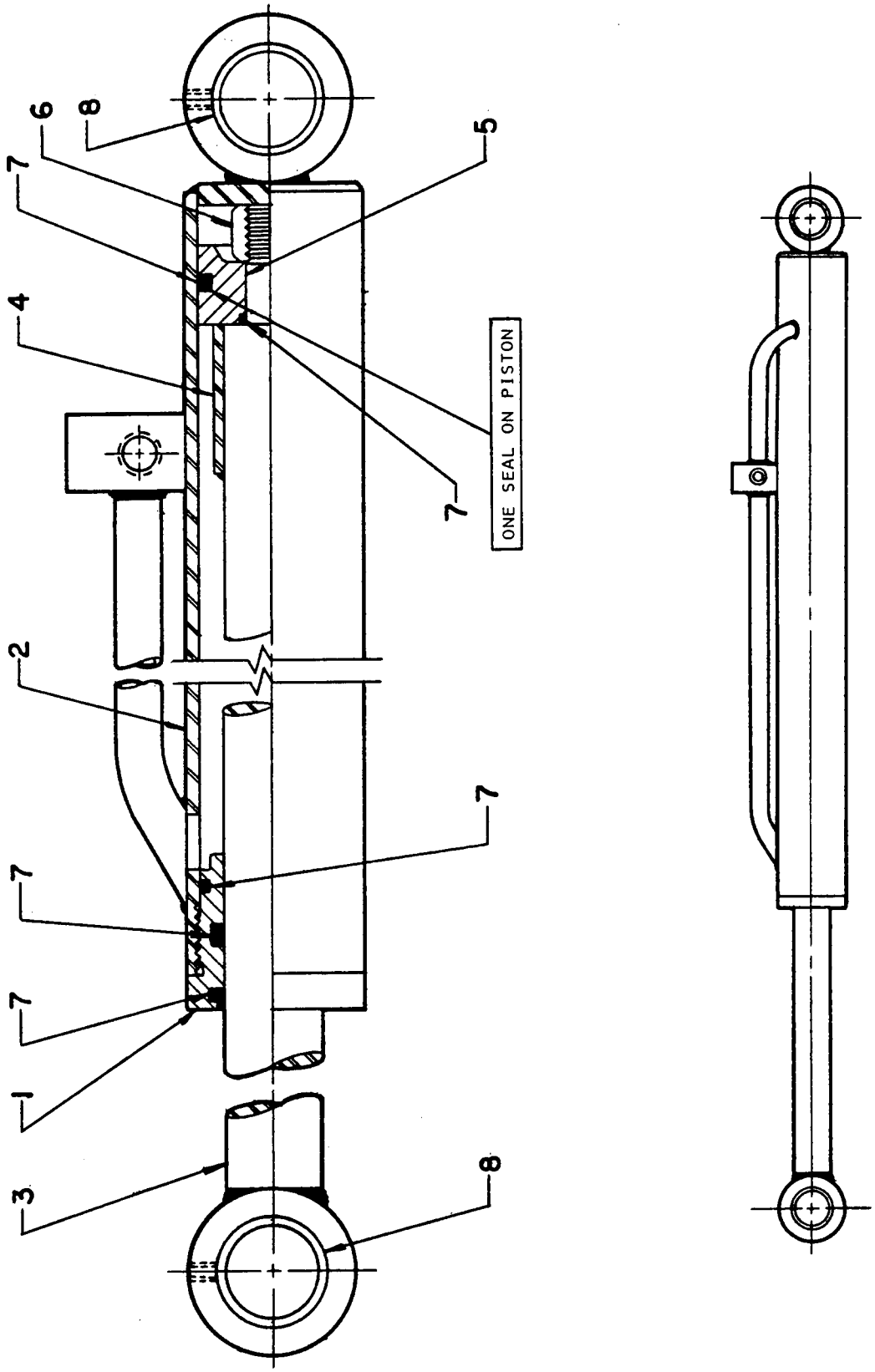
Note:
67.5" (1.71 M) fully retracted,
116" (2.95 M) fully extended (ref.)

TITLE	LIFT CYLINDER, 48.5" (1.23 M) STROKE		
SIMON AERIALS INC. REV. 15 FEB., 1995		PART NO. 04-036000	PLATE NO. D09.41

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			HEAD GLAND	1
2			CASE	1
3			ROD	1
4			SPACER	1
5			PISTON	1
6			LOCKNUT	1
7	04-007101		SEAL KIT	1
8			BUSHING	4

DESCRIPTION	PART NO.
MASTER LEVELING CYLINDER	04-007100



1283/0383

DESCRIPTION	PART NO.
MASTER LEVELING CYLINDER	04-007100

PARTS LIST

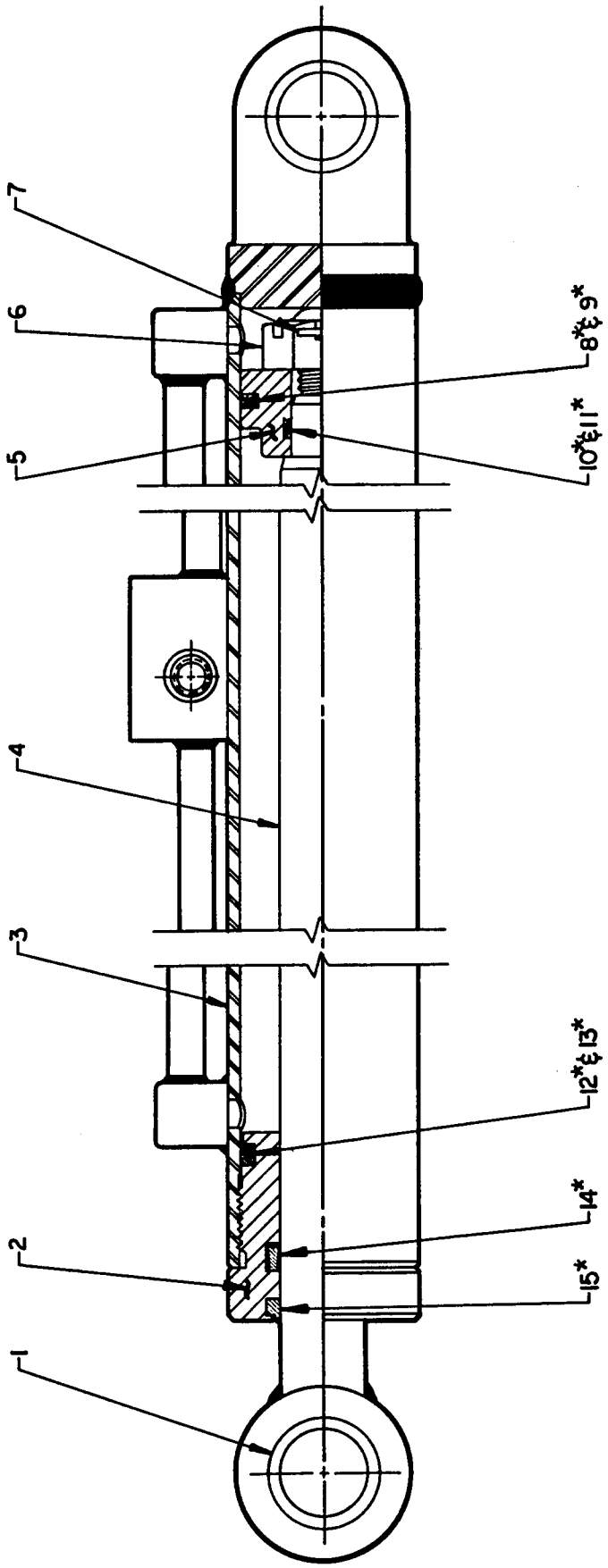
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			BUSHING	3
2			GLAND, HEAD	1
3			CASE	1
4			NUT, PISTON	1
5			PISTON	1
6			ROD	1
7	04-007101		SEAL KIT	1

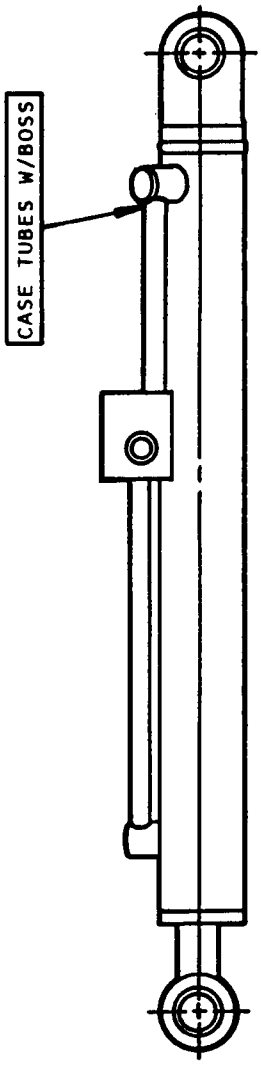
TITLE	MASTER LEVEL CYLINDER			
PLATE NO.	D10.02	**SIMON AERIALS INC.**	REV. 05/02/91	PART NO. 04-007400

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

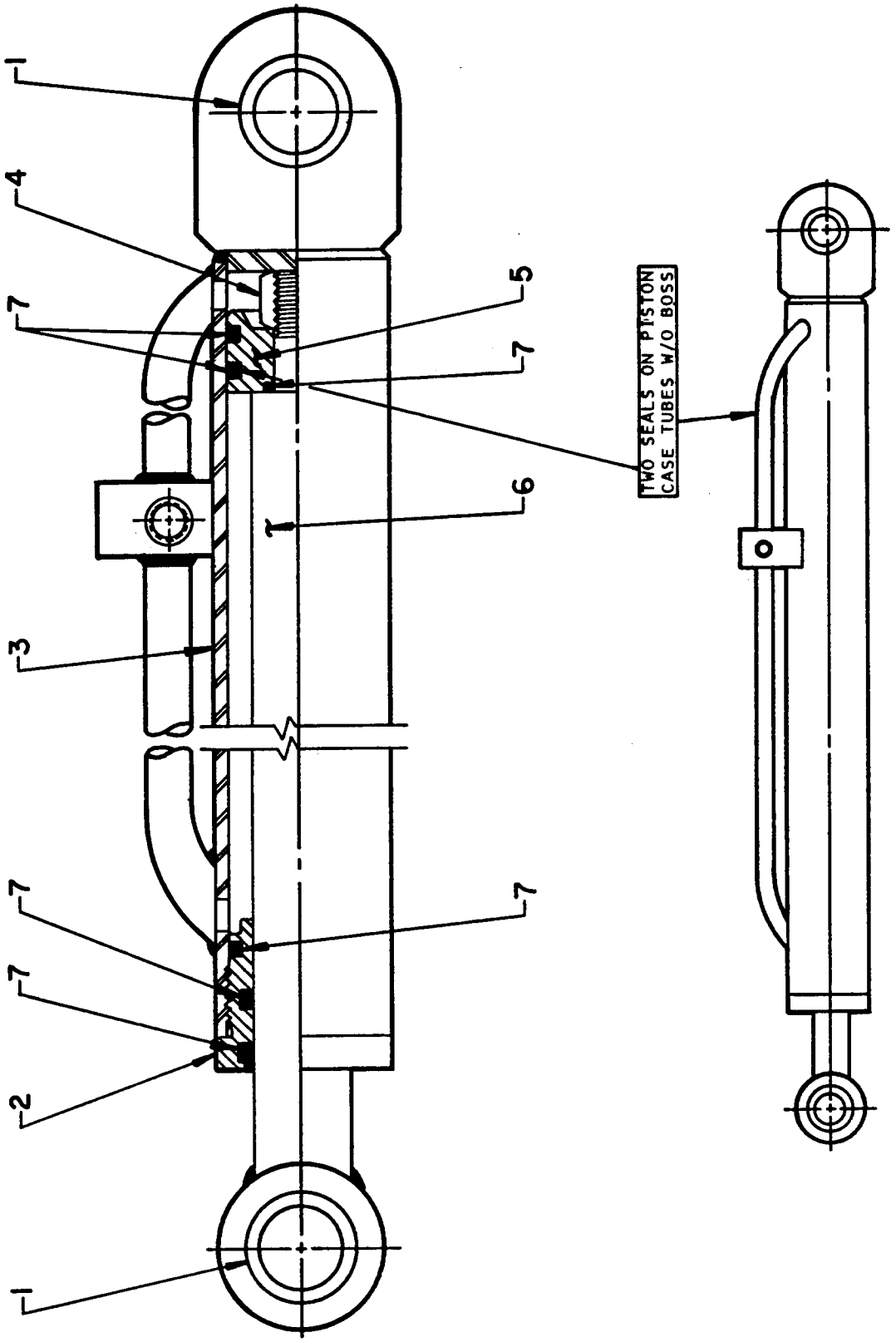
1184/0677

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



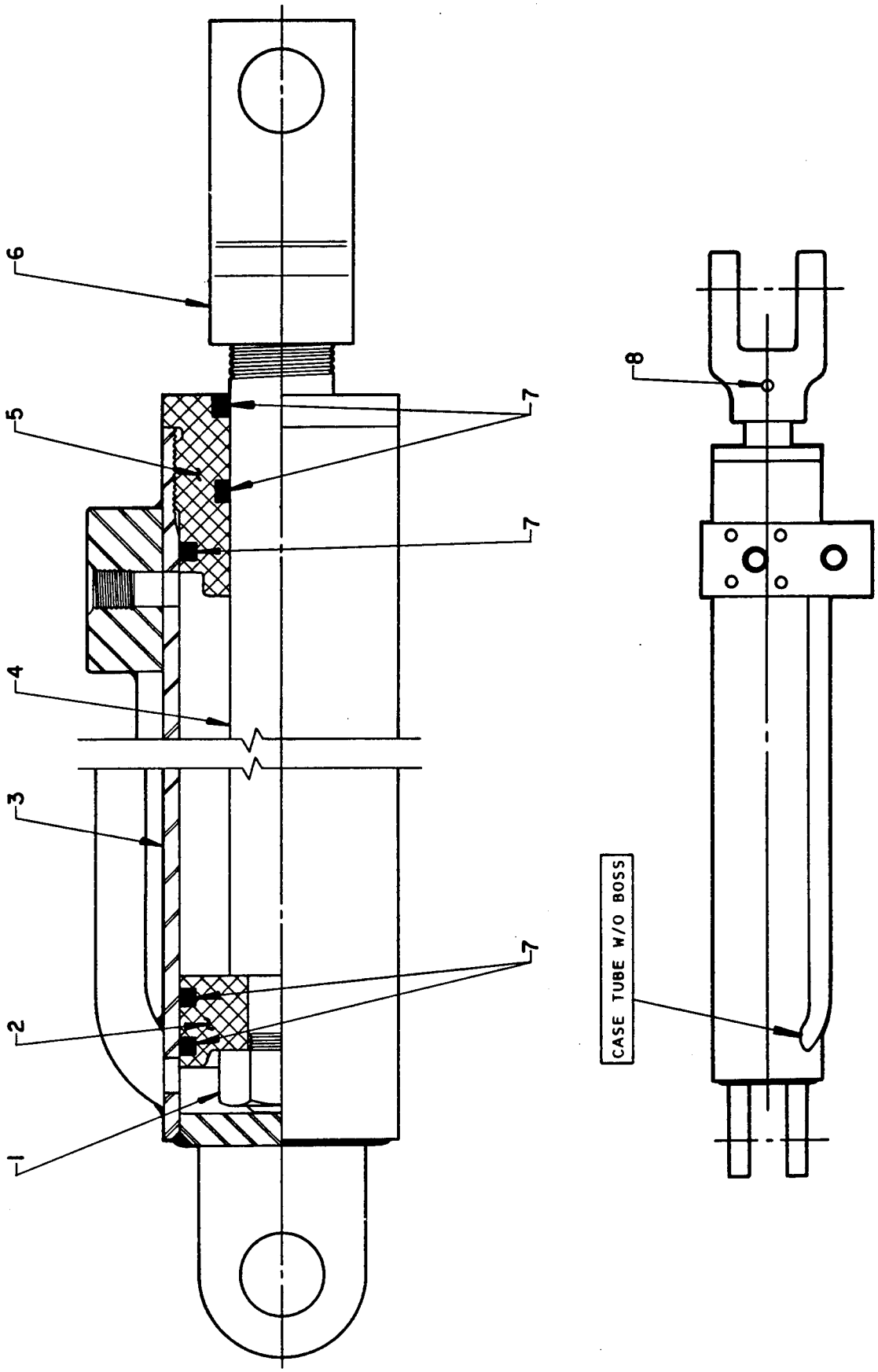
1184/0881

DESCRIPTION	PART NO.
MASTER LEVELING CYLINDER	04-004400

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1	04-005403		PISTON NUT	1
2			PISTON	1
3			CASE	1
4	04-005402		ROD	1
5			HEAD GLAND	1
6			CLEVIS	1
7	04-005401		SEAL KIT	1
8	07-023003		SOCKET HEAD SET SCREW	1

DESCRIPTION	PART NO.
MASTER LEVELING CYLINDER	04-005400



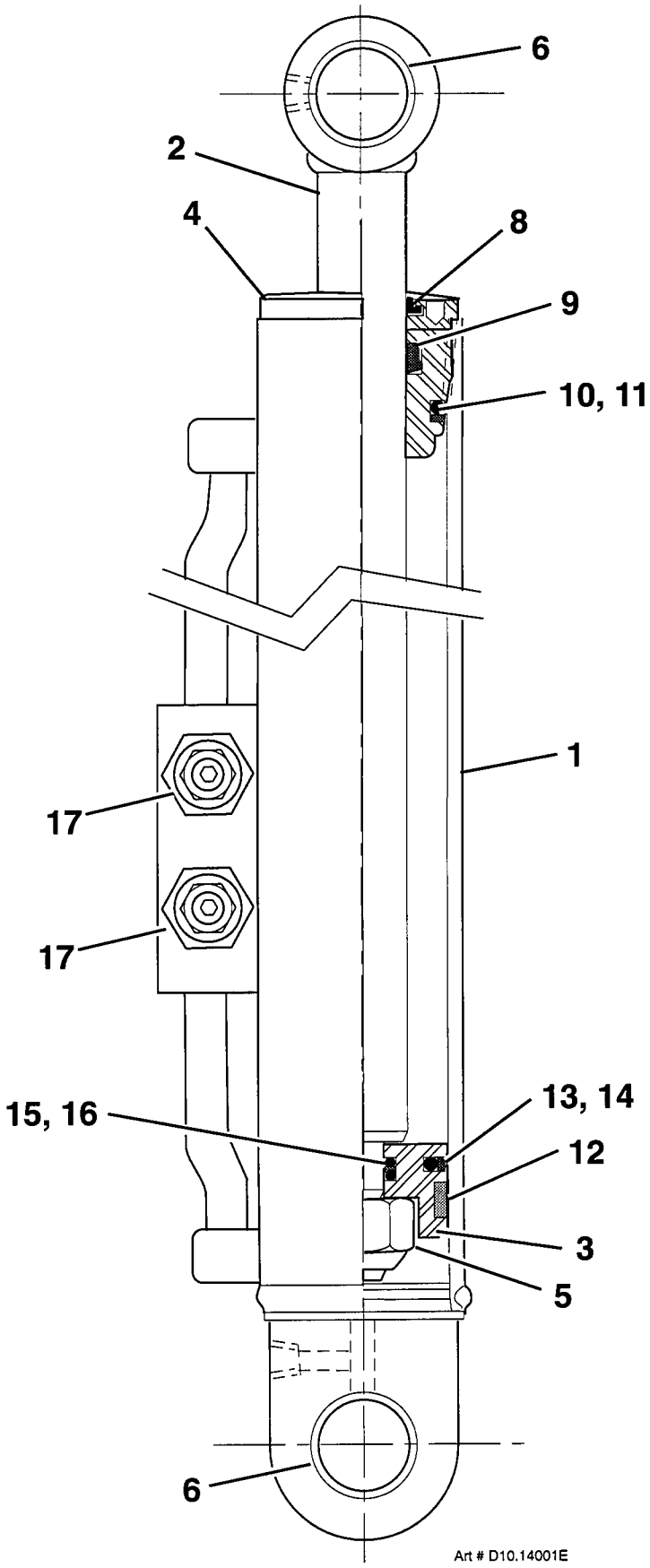
0585/0282

DESCRIPTION	PART NO.
MASTER LEVELING CYLINDER	04-005400

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



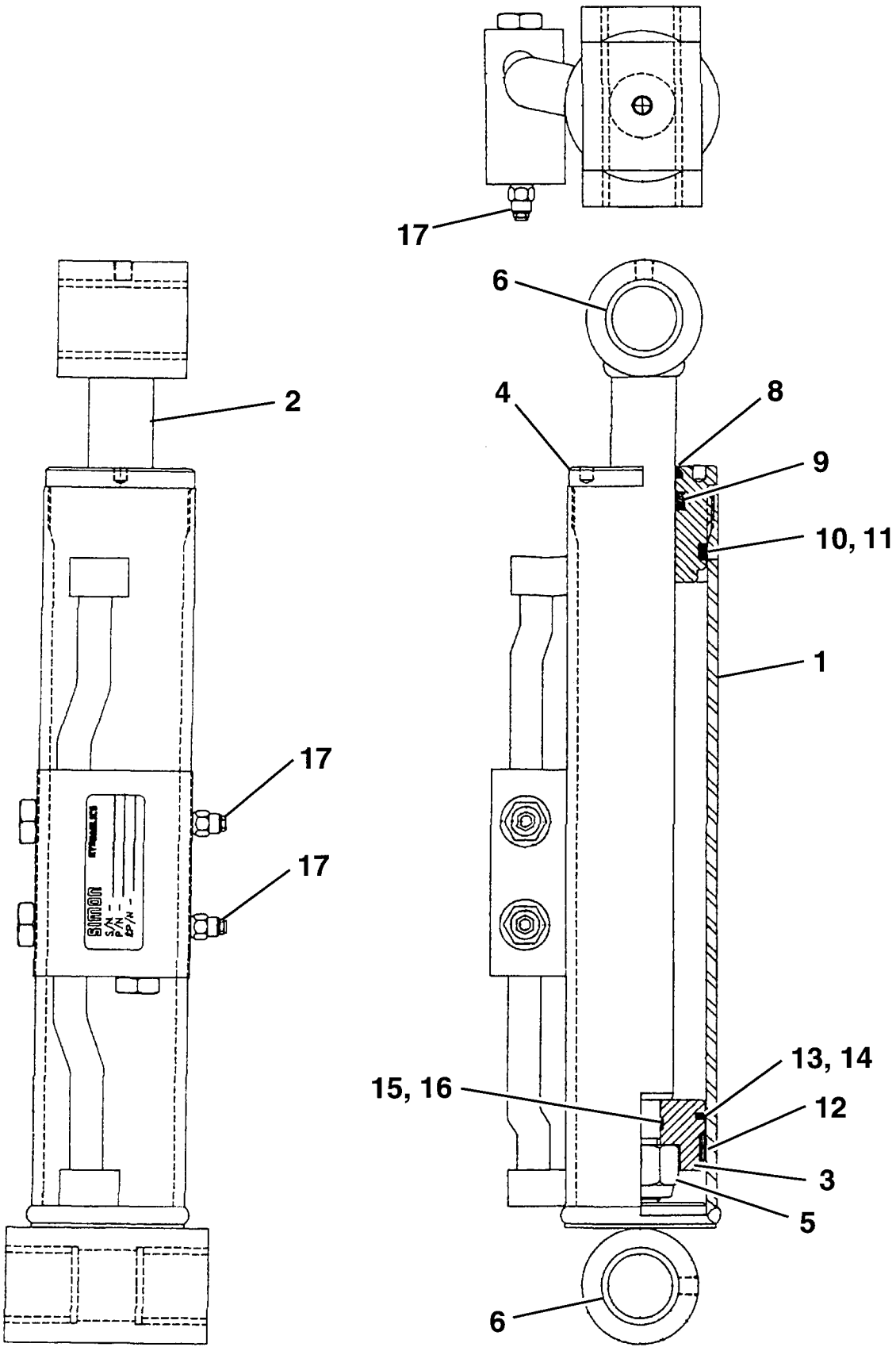
TITLE	MASTER LEVEL CYLINDER, 17-3/4" (.45 M) STROKE		
SIMON AERIALS INC. NEW 27 APR., 1994		PART NO. 04-035500	PLATE NO. D10.14

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Cylinder can be identified by Part Number "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

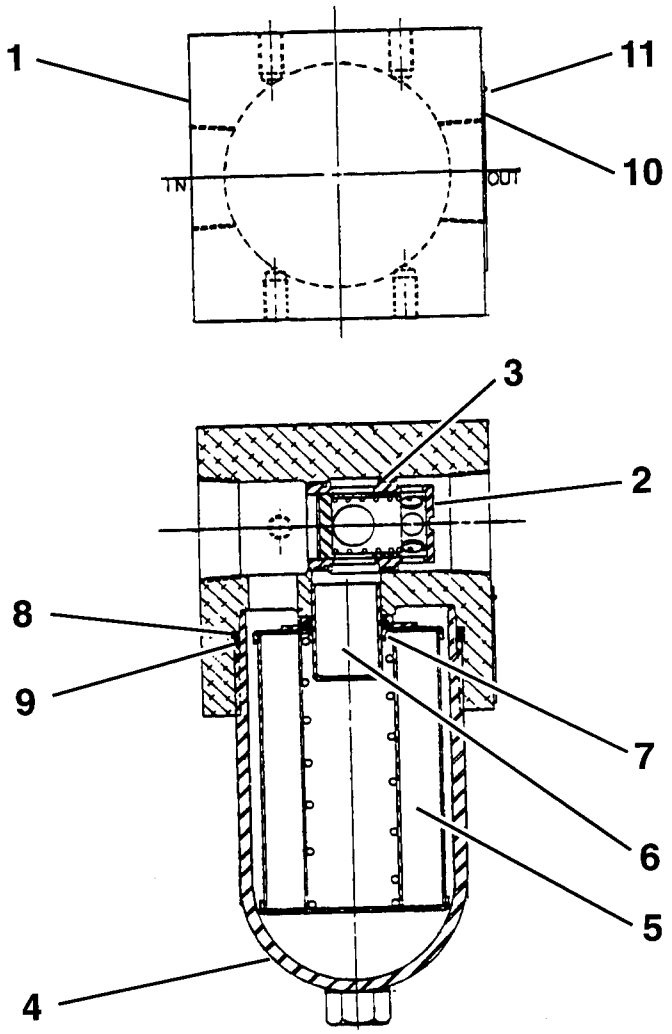


TITLE	MASTER LEVEL CYLINDER, 10" (.25 M) STROKE		
SIMON AERIALS INC. NEW 03 DEC., 1992	PART NO. 04-032600	PLATE NO. D10.101	

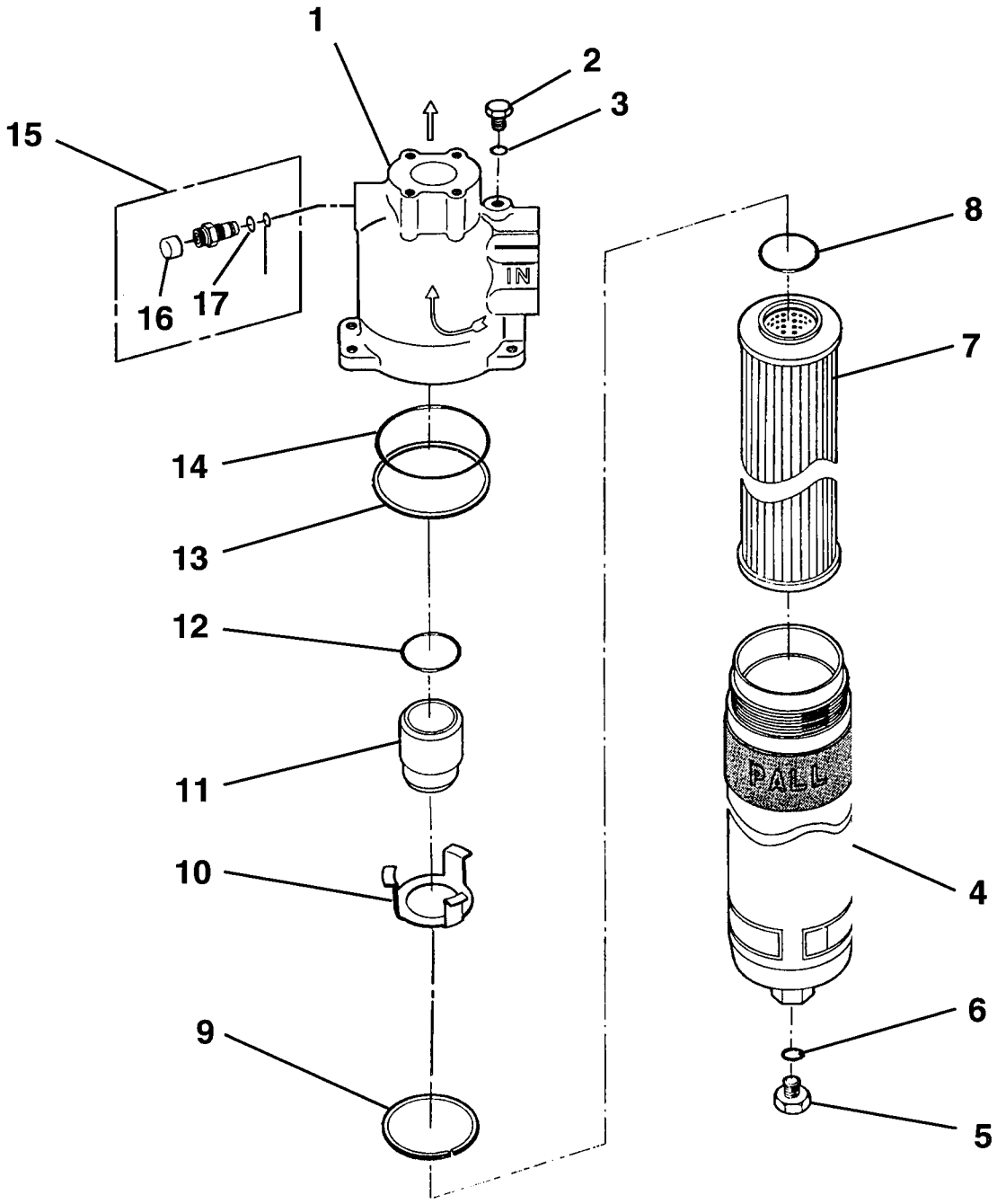
PARTS LIST

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	

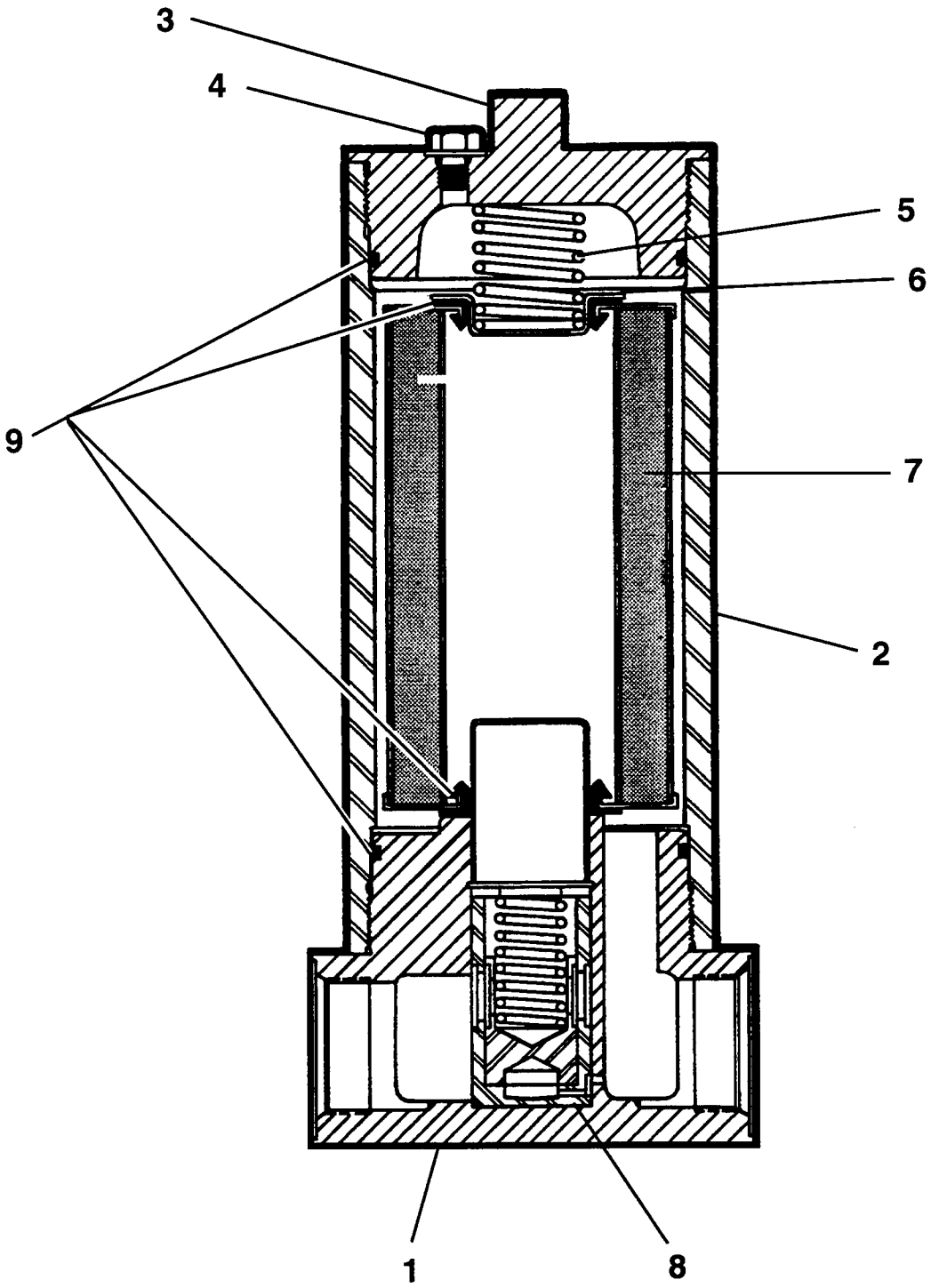


TITLE	HIGH PRESSURE FILTER		
SIMON AERIALS INC. REV. 05/02/91	PART NO. 01-000600	PLATE NO. D11.02	

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

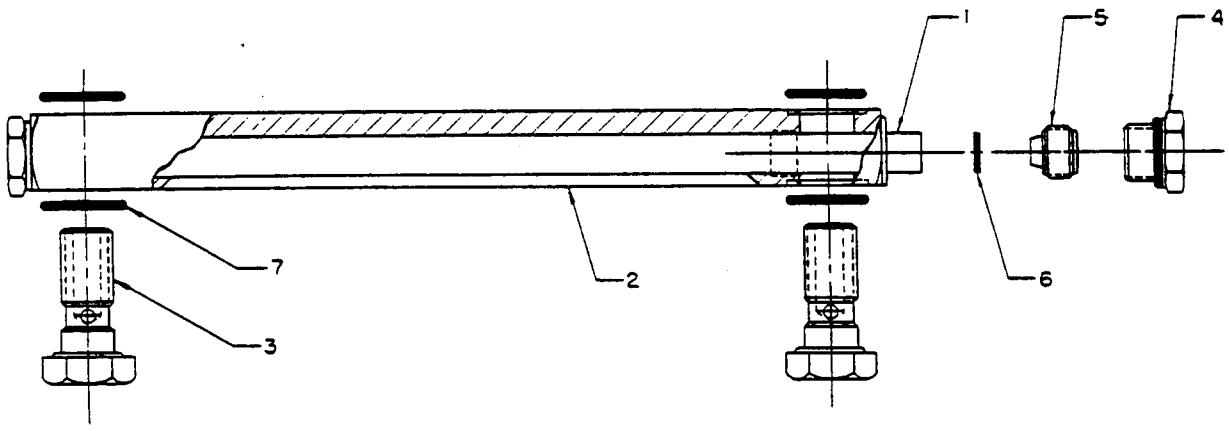


TITLE			
HIGH PRESSURE FILTER			
SIMON AERIALS INC. REV. 06/25/91	PART NO. 01-014000	PLATE NO. D11.03	

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 7"	10-032500



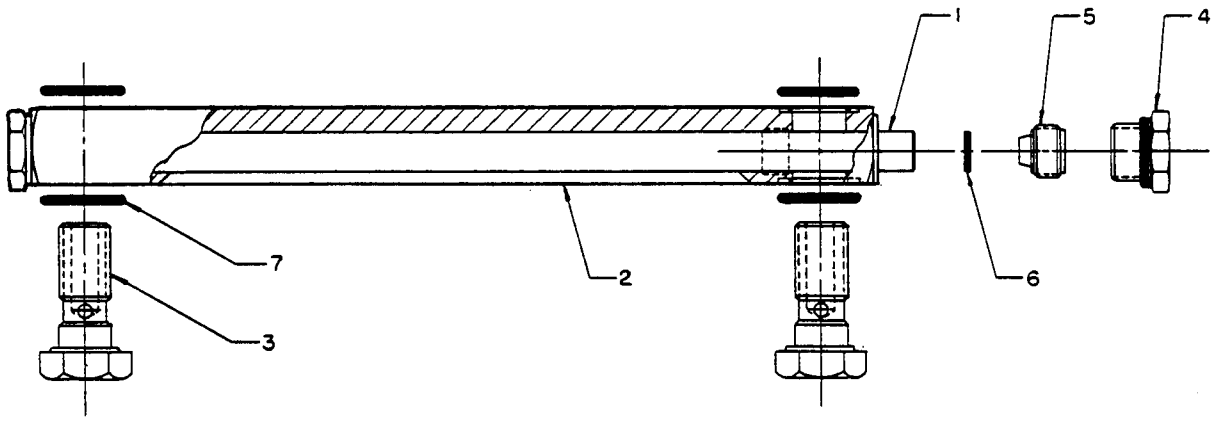
1283

DESCRIPTION	PART NO.
SIGHT GAUGE 7"	10-032500

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



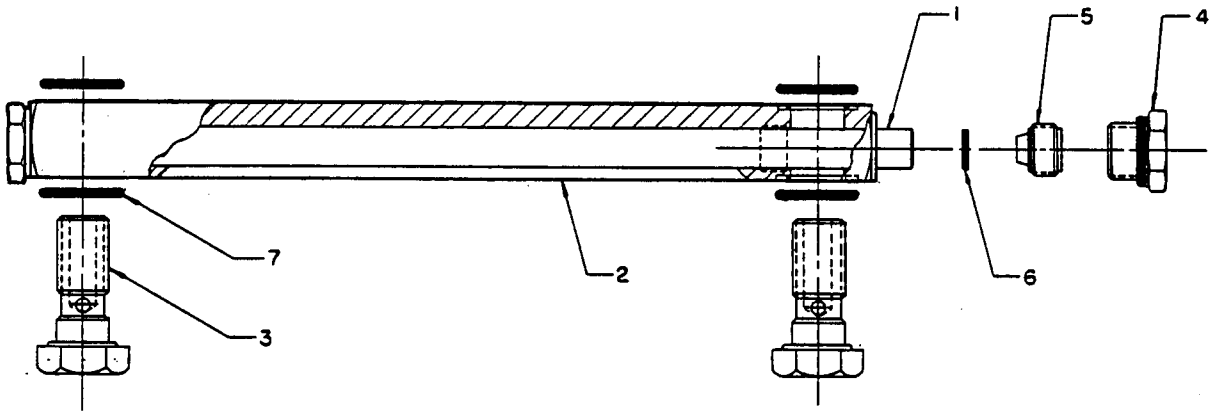
0684/0184

DESCRIPTION	PART NO.
SIGHT GAUGE 12"	10-033500

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			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, 10"	10-032600



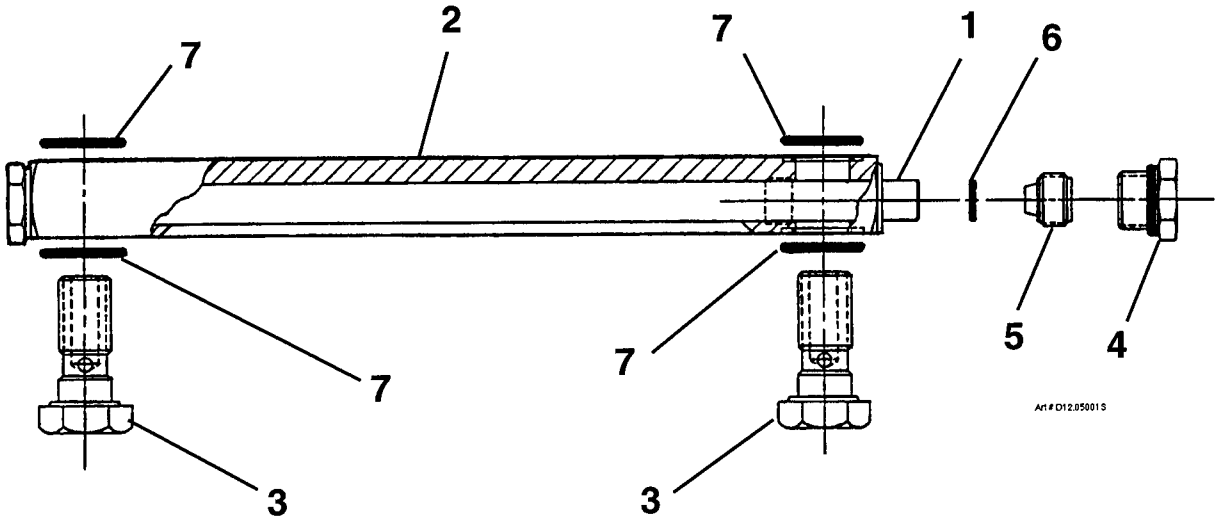
0684/0184

DESCRIPTION	PART NO.
SIGHT GAUGE, 10"	10-032600

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

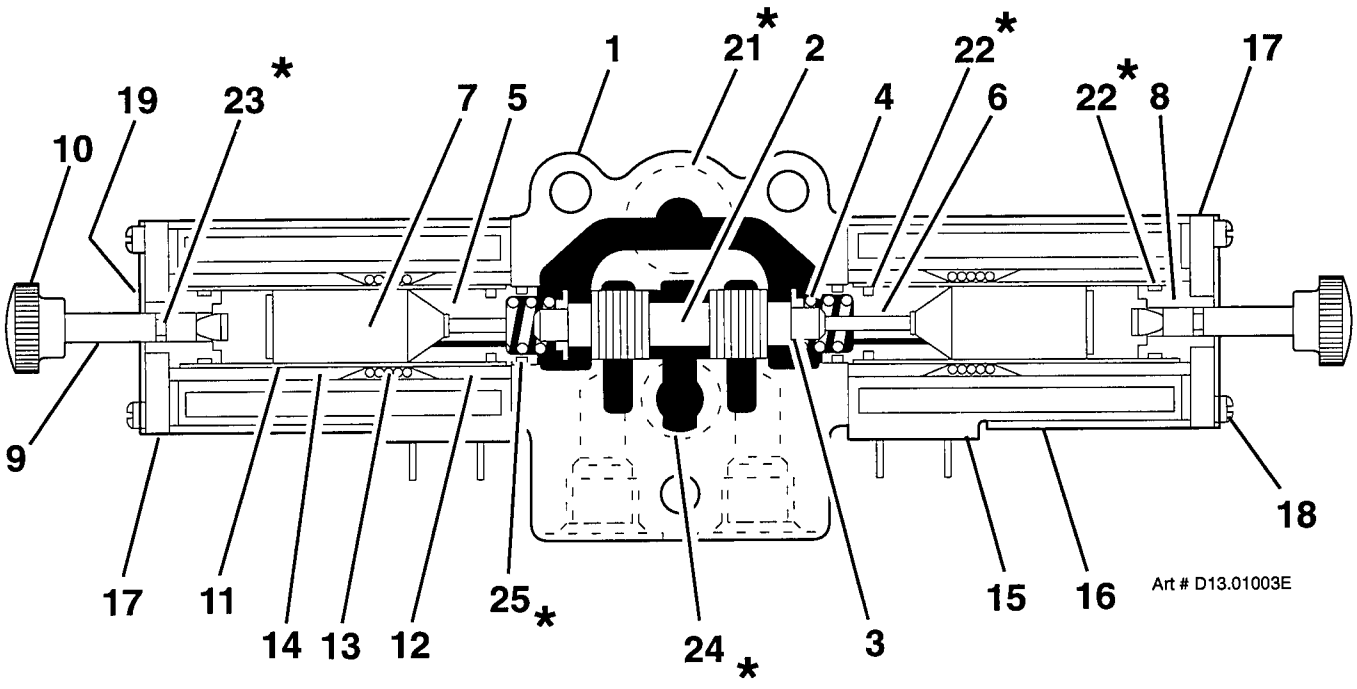


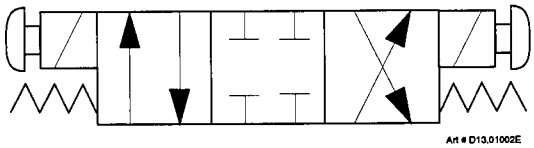
TITLE	SIGHT GAUGE, 14"		
SIMON AERIALS INC. REV. 05/02/91	PART NO. 10-033800	PLATE NO. D12.05	

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





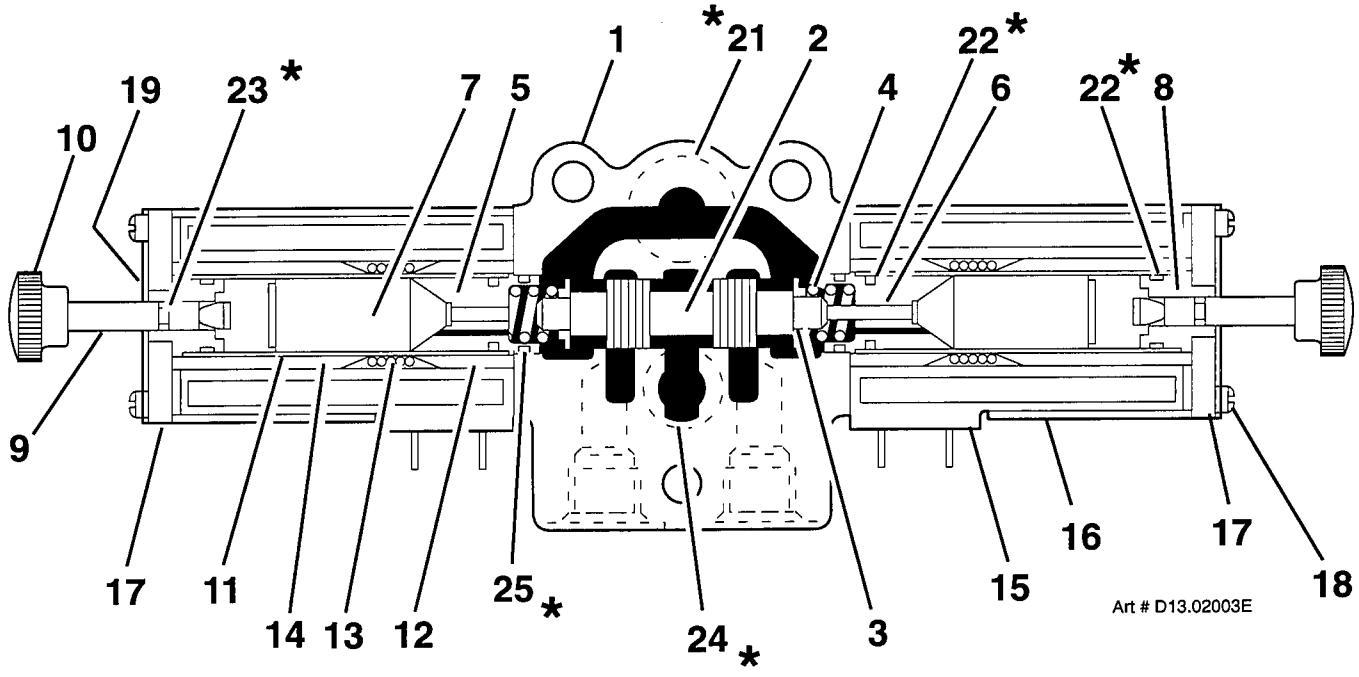
TITLE	4-WAY, 3 POSITION SOLENOID VALVE, CLOSED CENTER SPOOL		
SIMON AERIALS INC. REV. 20 SEP., 1995		PART NO. 01-031700	PLATE NO. D13.01

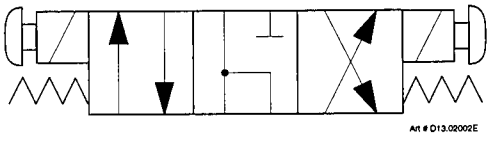
PARTS LIST

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



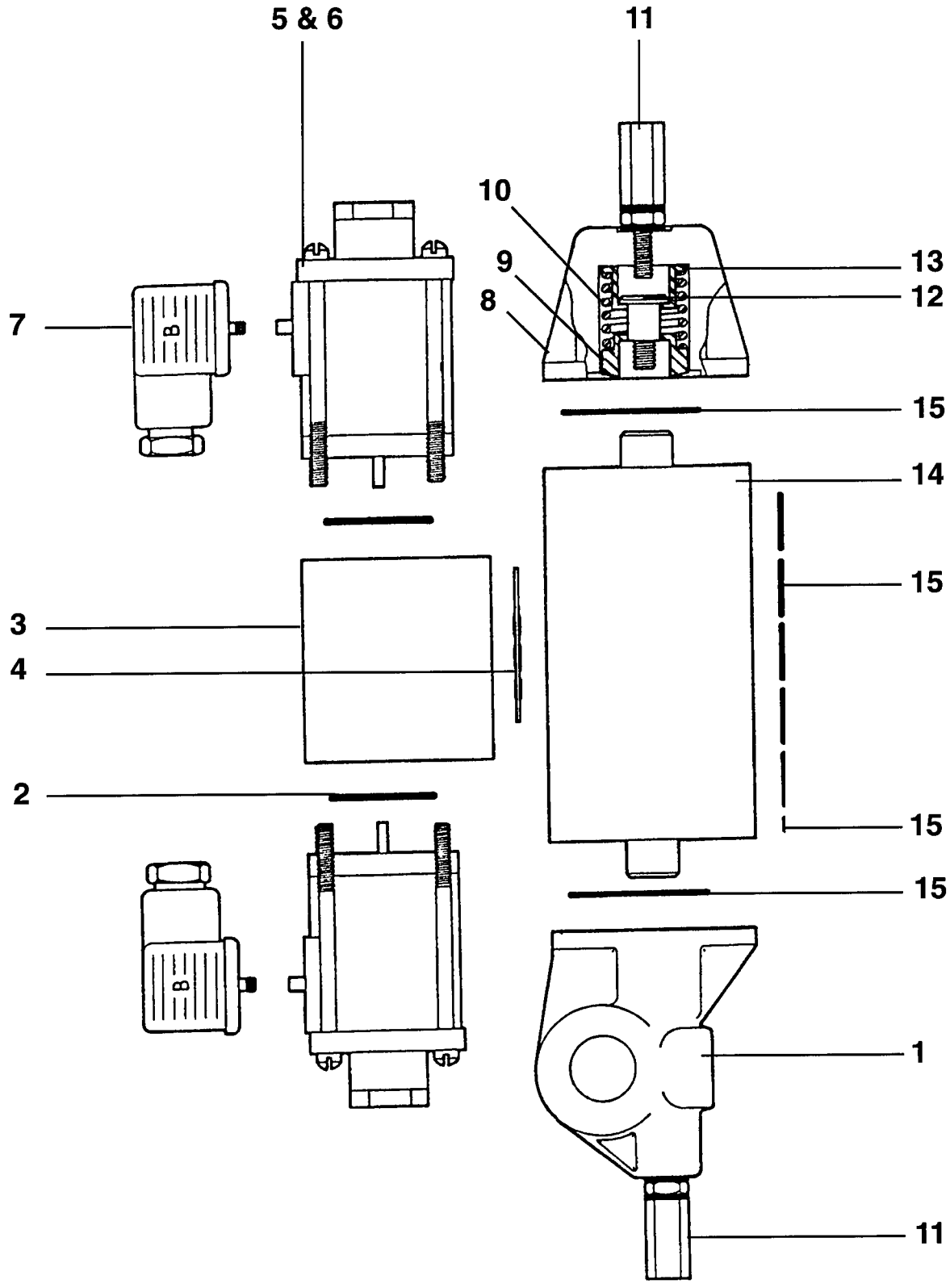


TITLE 4-WAY, 3 POSITION SOLENOID VALVE, OPEN CENTER (MOTORING) SPOOL			
SIMON AERIALS INC.	REV. 20 SEP., 1995	PART NO. 01-031800	PLATE NO. D13.02

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

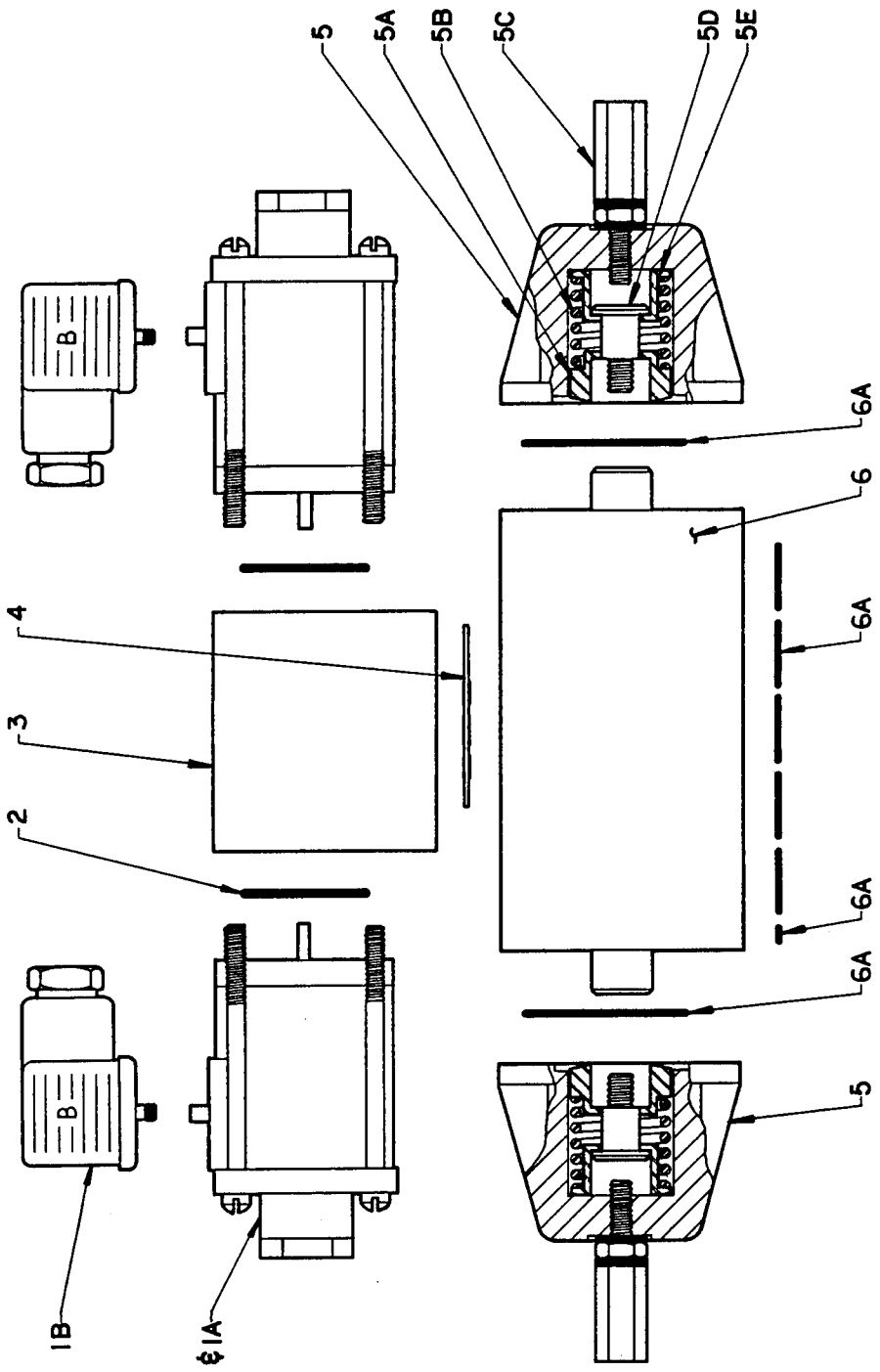


TITLE	4-WAY VALVE ASSEMBLY		
SIMON AERIALS INC. REV. 13/08/91	**PART NO.** 01-040301 THRU 01-040304	**PLATE NO.** D13.03	

PARTS LIST

ITEM	DESCRIPTION	QTY.	PART NO. DRIVE	EXTEND	HOIST	SWING
1	SOLENOID ASSEMBLY	2	01-040306	01-040306	01-040306	01-040306
1A	COIL	2	01-040307	01-040307	01-040307	01-040307
1B	CONNECTOR (OPTIONAL)	2	03-043000	03-043000	03-043000	03-043000
2	"O" RING	2				
3	PILOT VALVE ASSEMBLY	1	01-040305	01-040305	01-040305	01-040305
4	SEAL PLATE	1				
5	SPRING CAP ASSEMBLY	2				
5A	SPRING CUP	2				
5B	SPRING	2				
5C	SPROKE CONTROL ASS'Y.	2				
5D	SHOULDER SCREW	2				
5E	SPRING CUP	2				
6	4-WAY VALVE ASSEMBLY	1				
6A	VALVE SEAL KIT	1				
7	COMPLETE VALVE (INCL. ALL ABOVE ITEMS)		01-017501	01-017502	01-017503	01-017504

DESCRIPTION	PART NO.
4-WAY SOLENOID VALVE, PROPRTIONAL	01-017501 THRU 01-017504



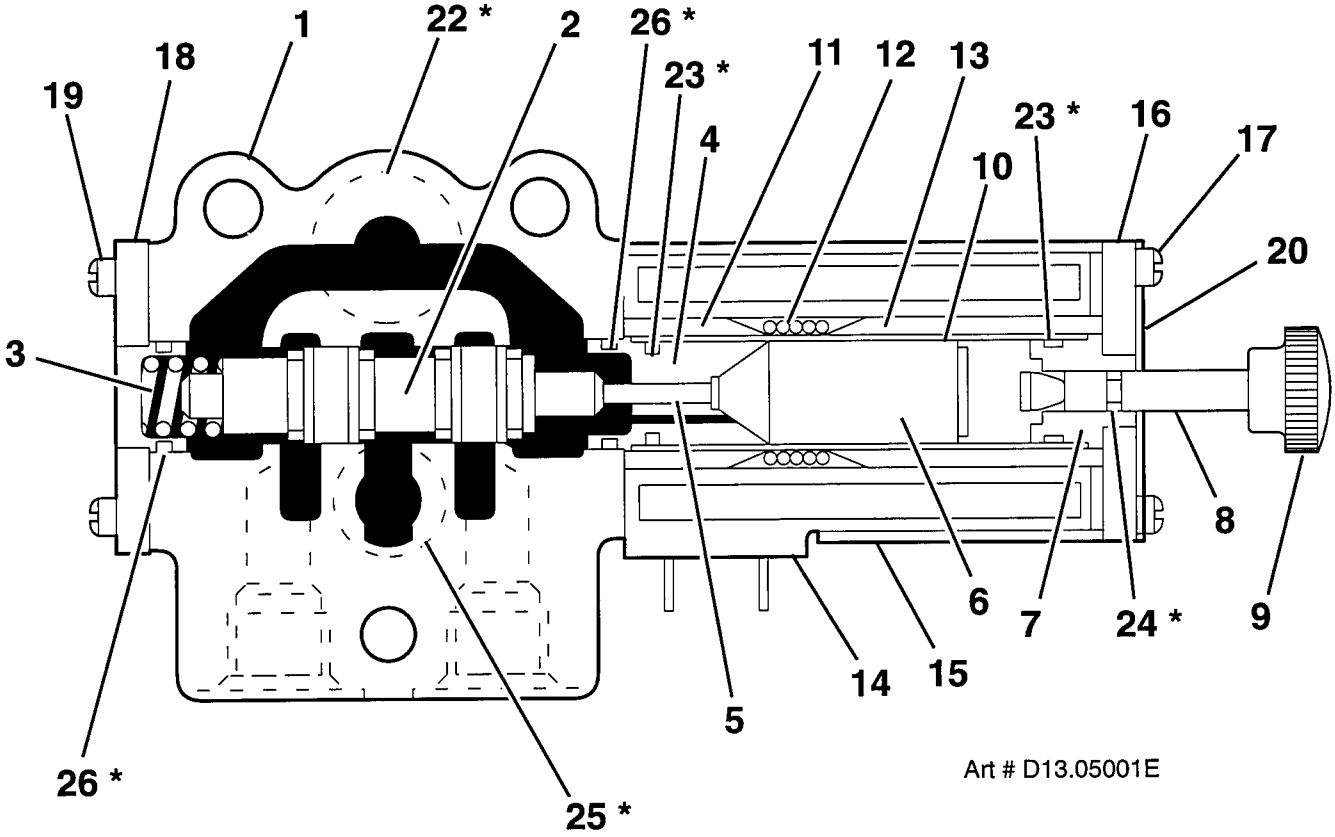
0785/0785

DESCRIPTION	PART NO.
4-WAY SOLENOID VALVE, PROPORTIONAL	01-017501 THRU 01-017504

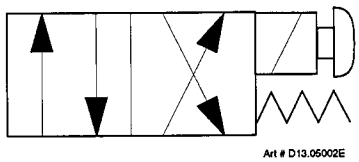
PARTS LIST

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

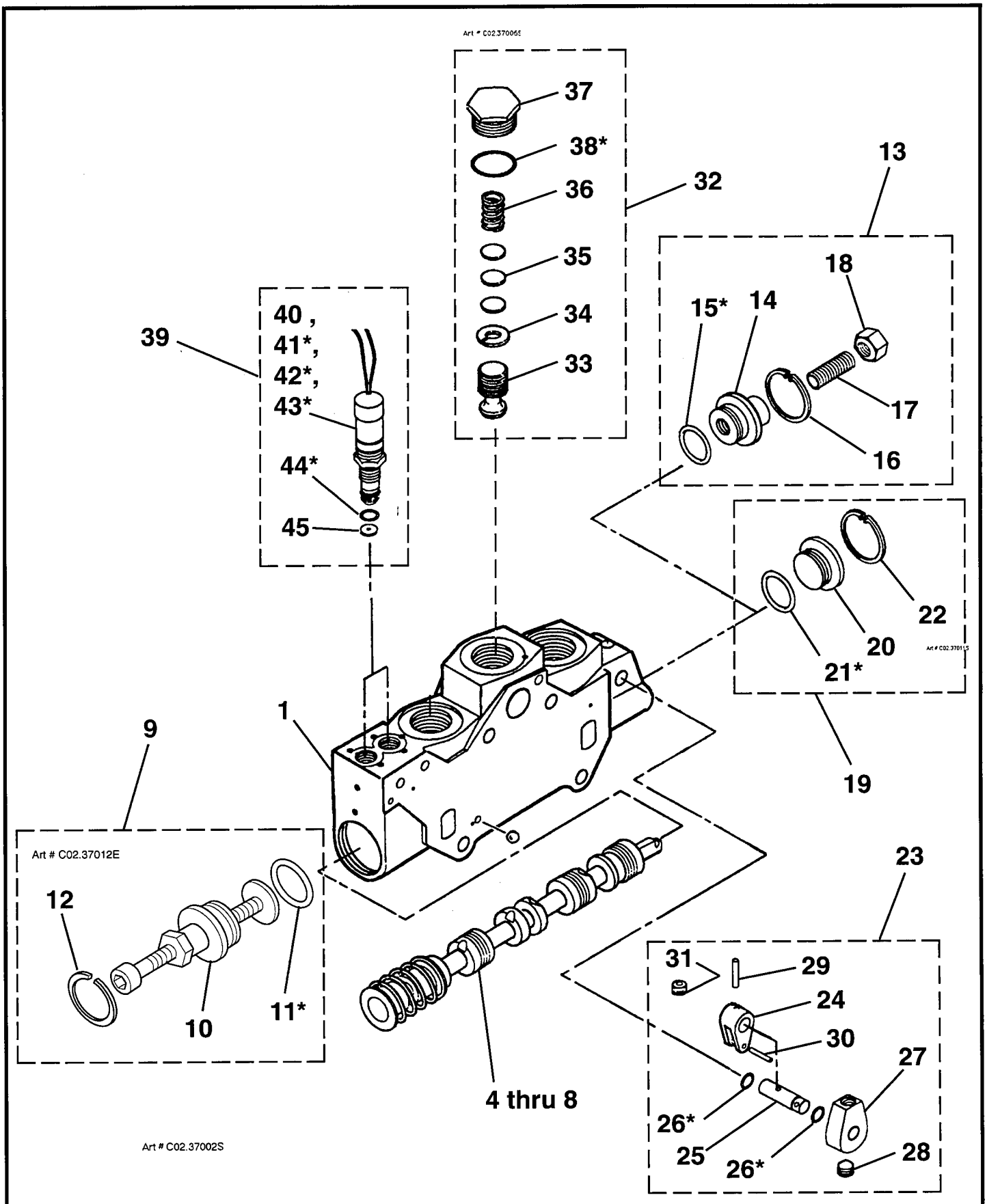
TITLE	4-WAY, 2 POSITION SOLENOID VALVE		
SIMON AERIALS INC. NEW 06/24/91	PART NO. 01-061900	PLATE NO. D13.05	

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)

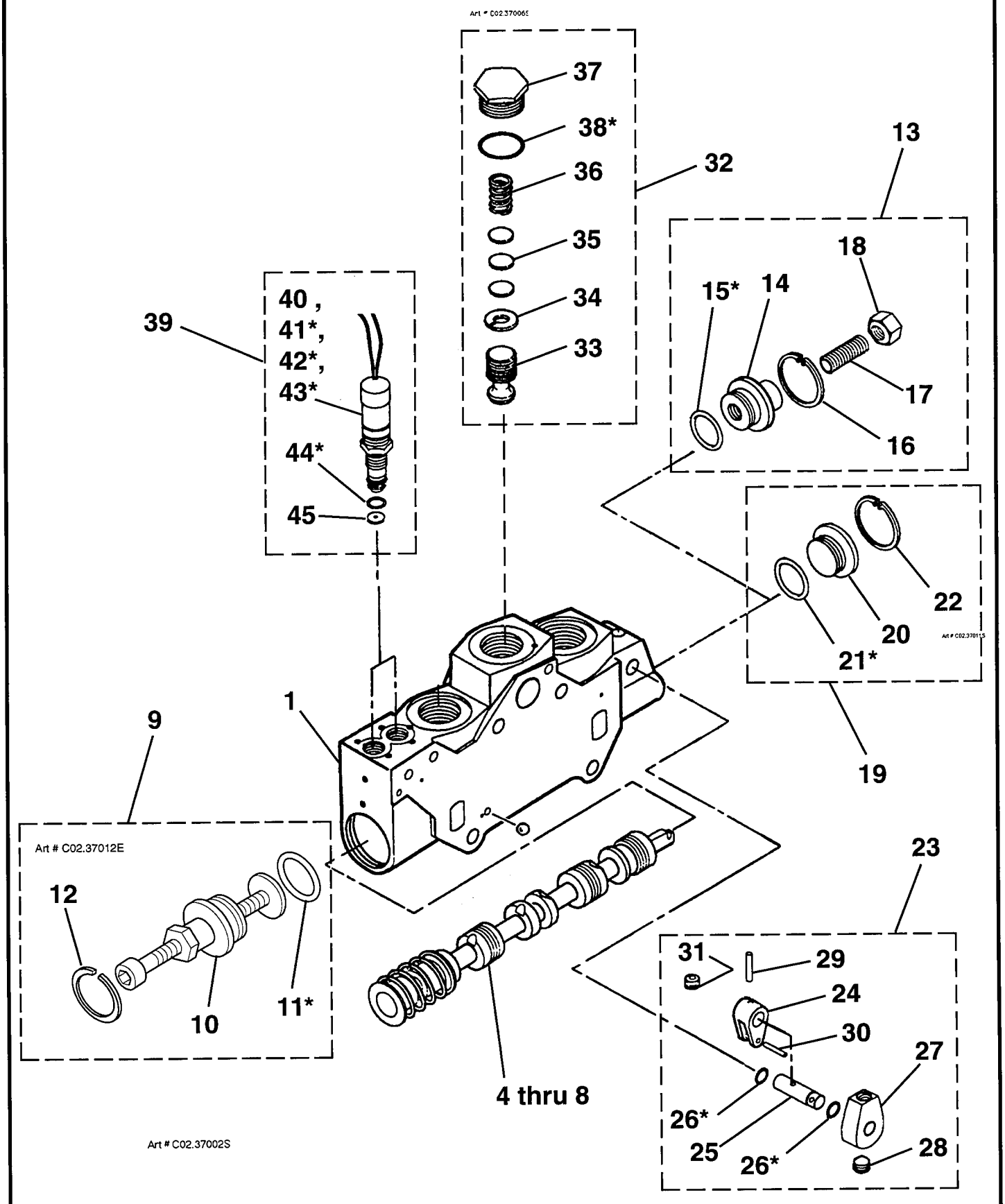
SIMON AERIALS INC. REV. 16 FEB., 1996	PART NO.	PLATE NO. D13.06

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)

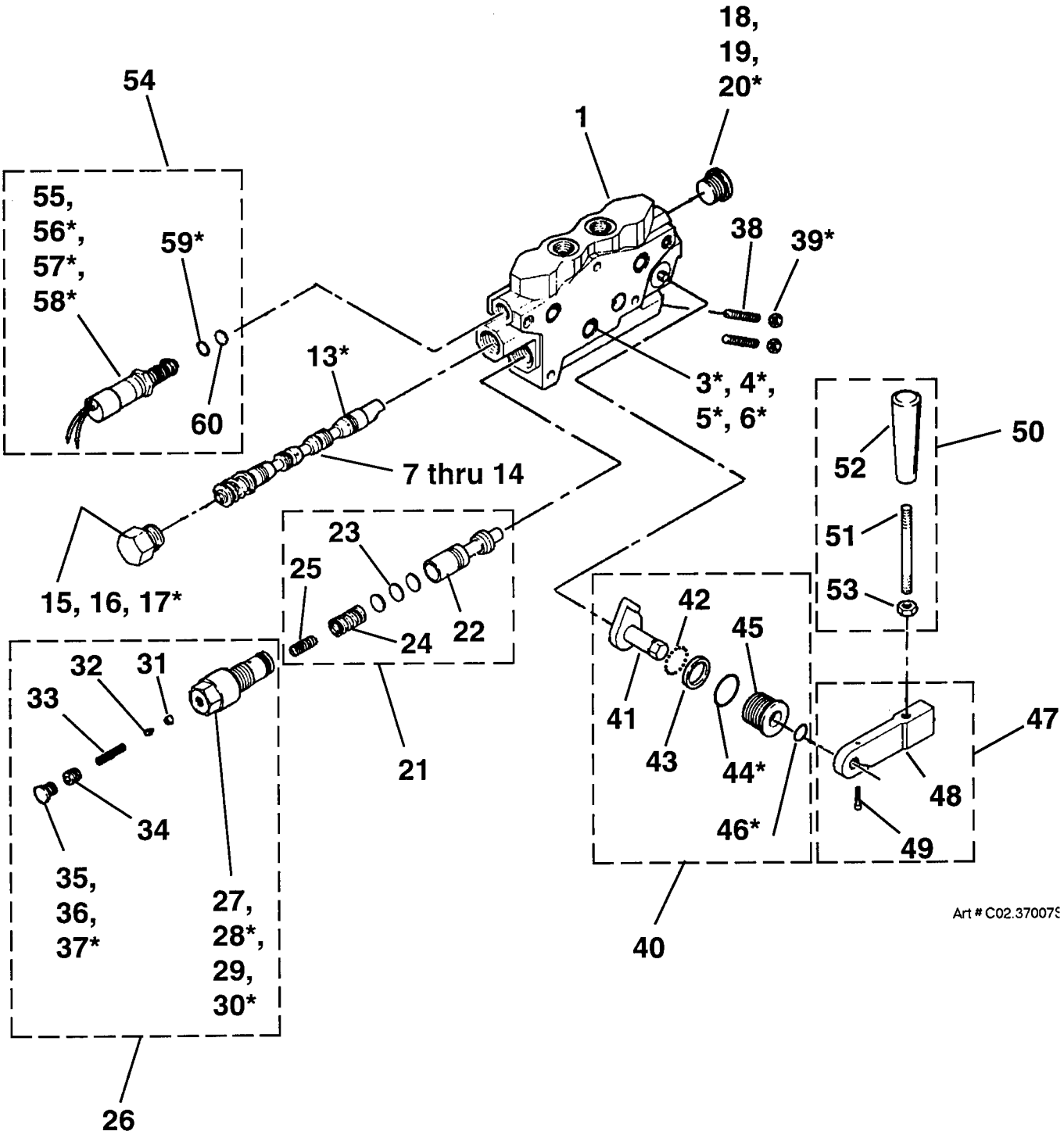
SIMON AERIALS INC. REV. 16 FEB., 1996	PART NO.	PLATE NO. D13.06

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	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 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)

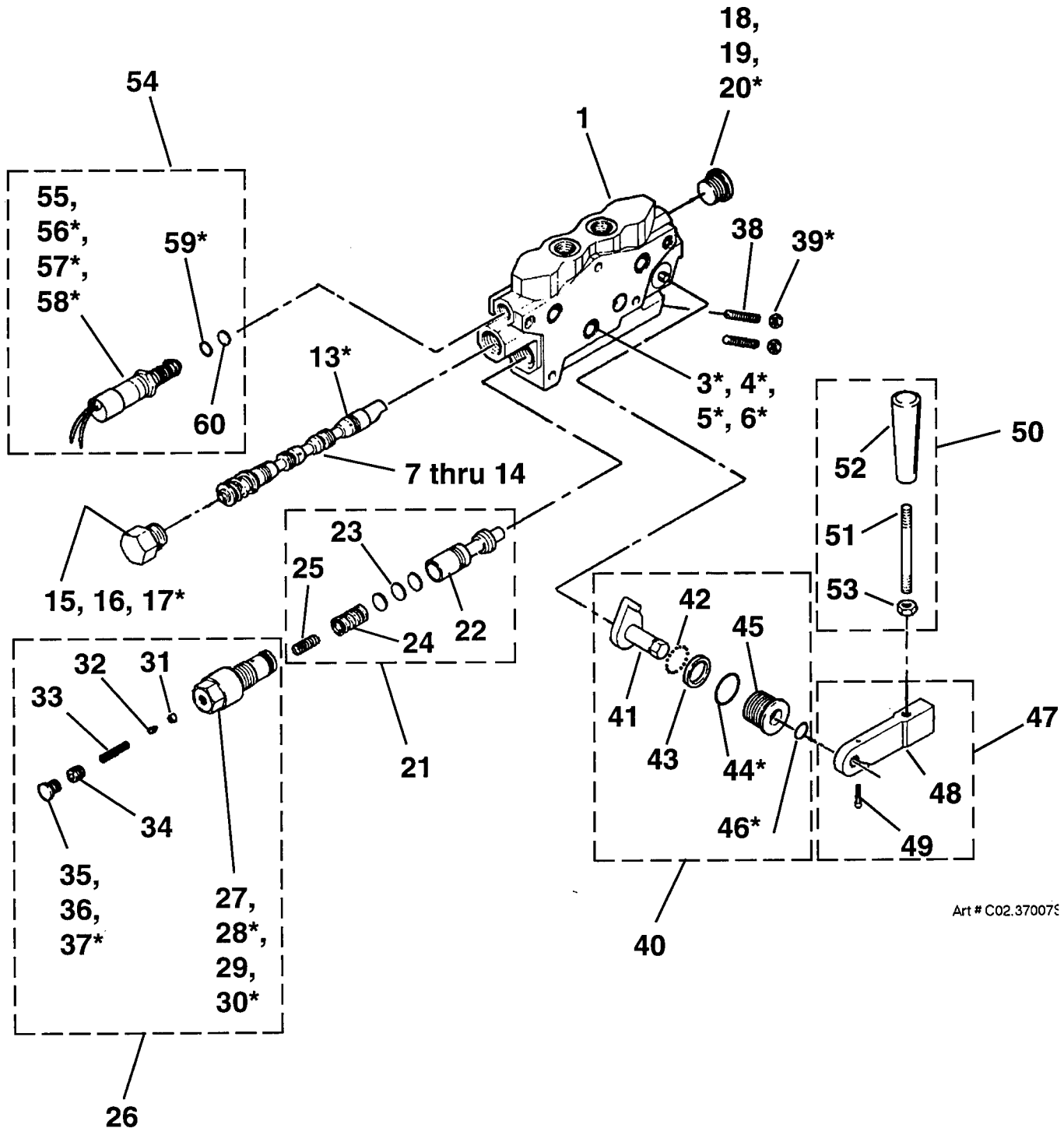
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.07

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

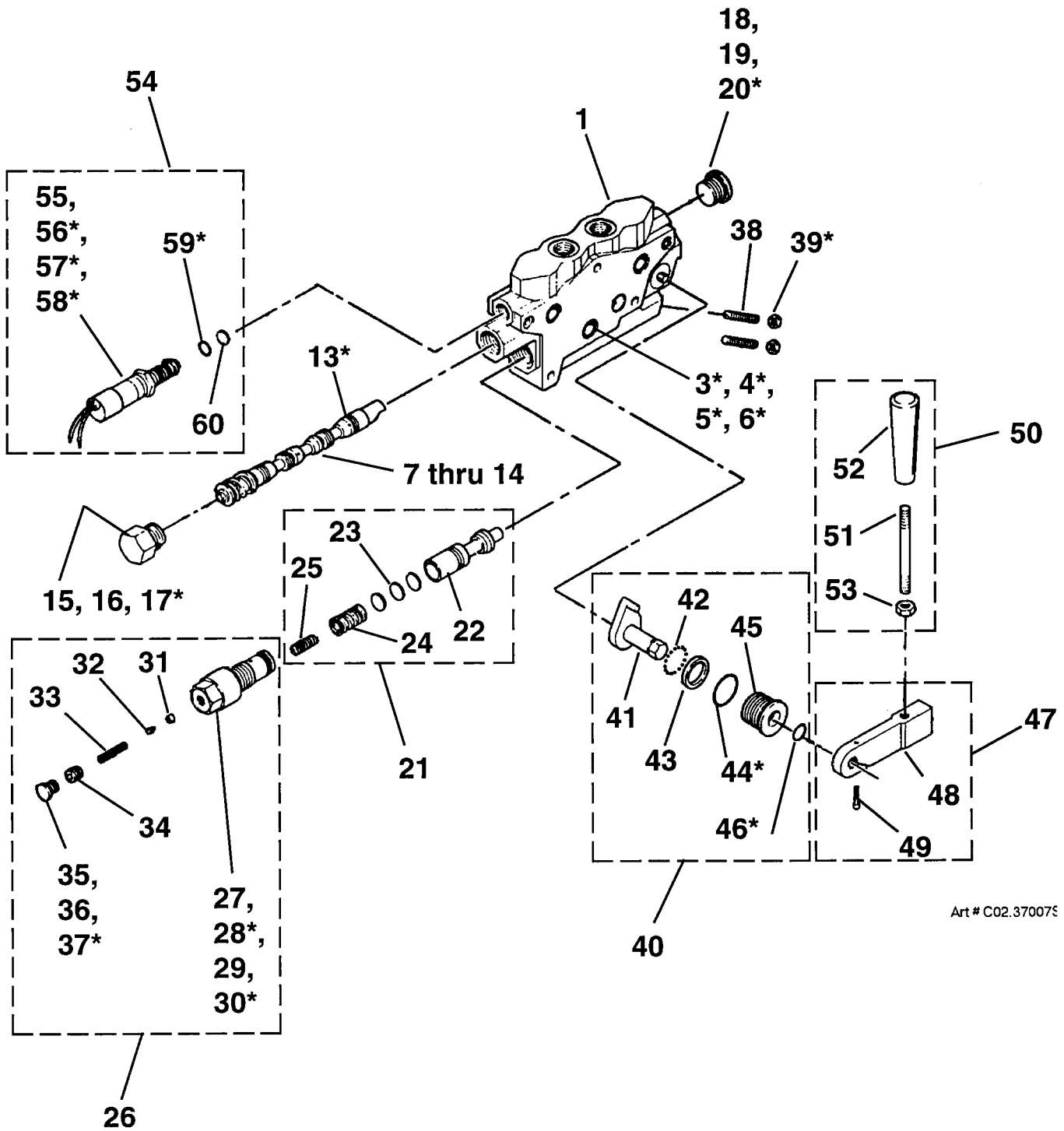
TITLE TELESCOPE VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (2 OF 3)

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



TITLE TELESCOPE VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (3 OF 3)

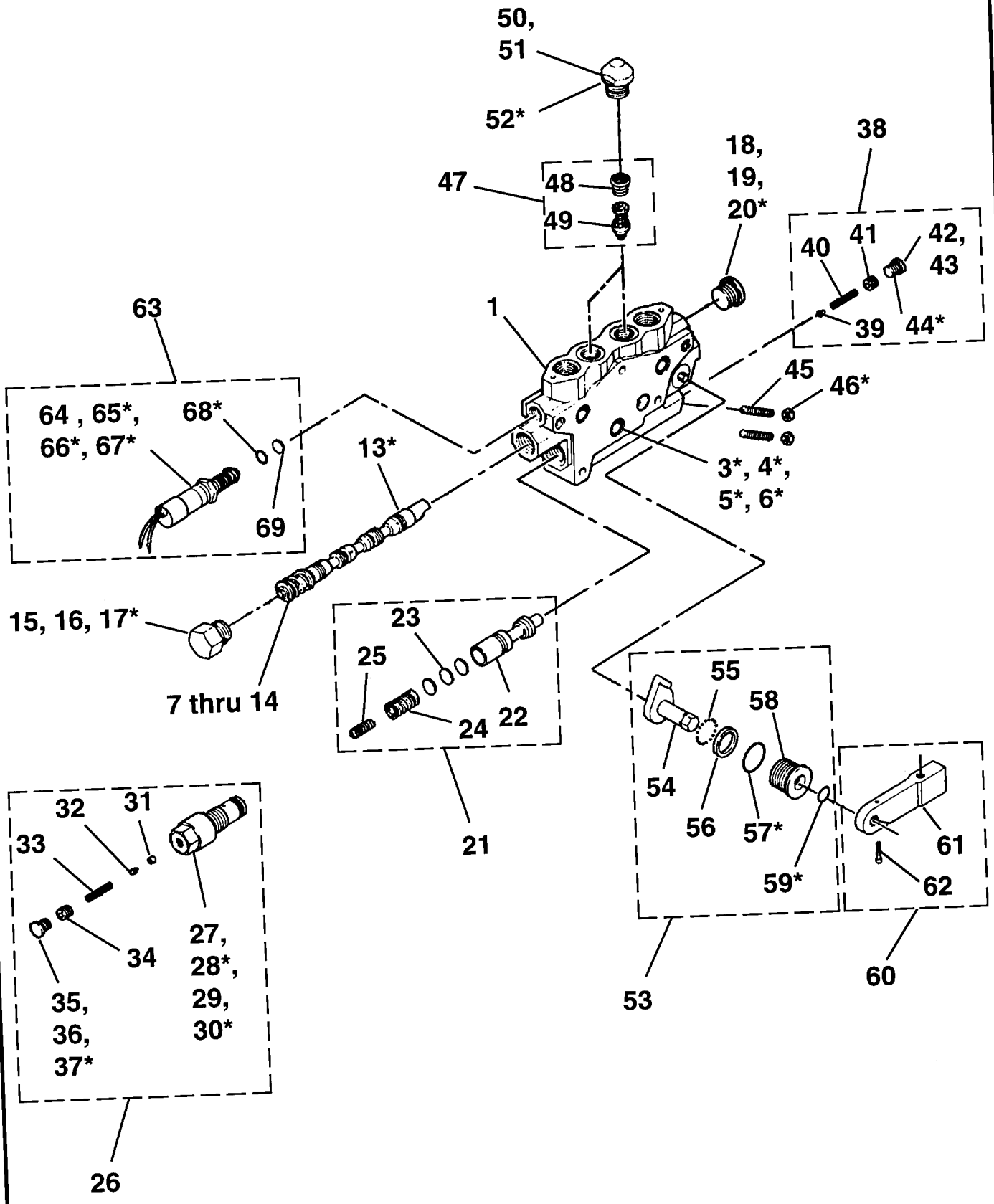
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.07

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. D13.08 | **SIMON AERIALS INC.** REV. 26 JUL., 1994 | PART NO.

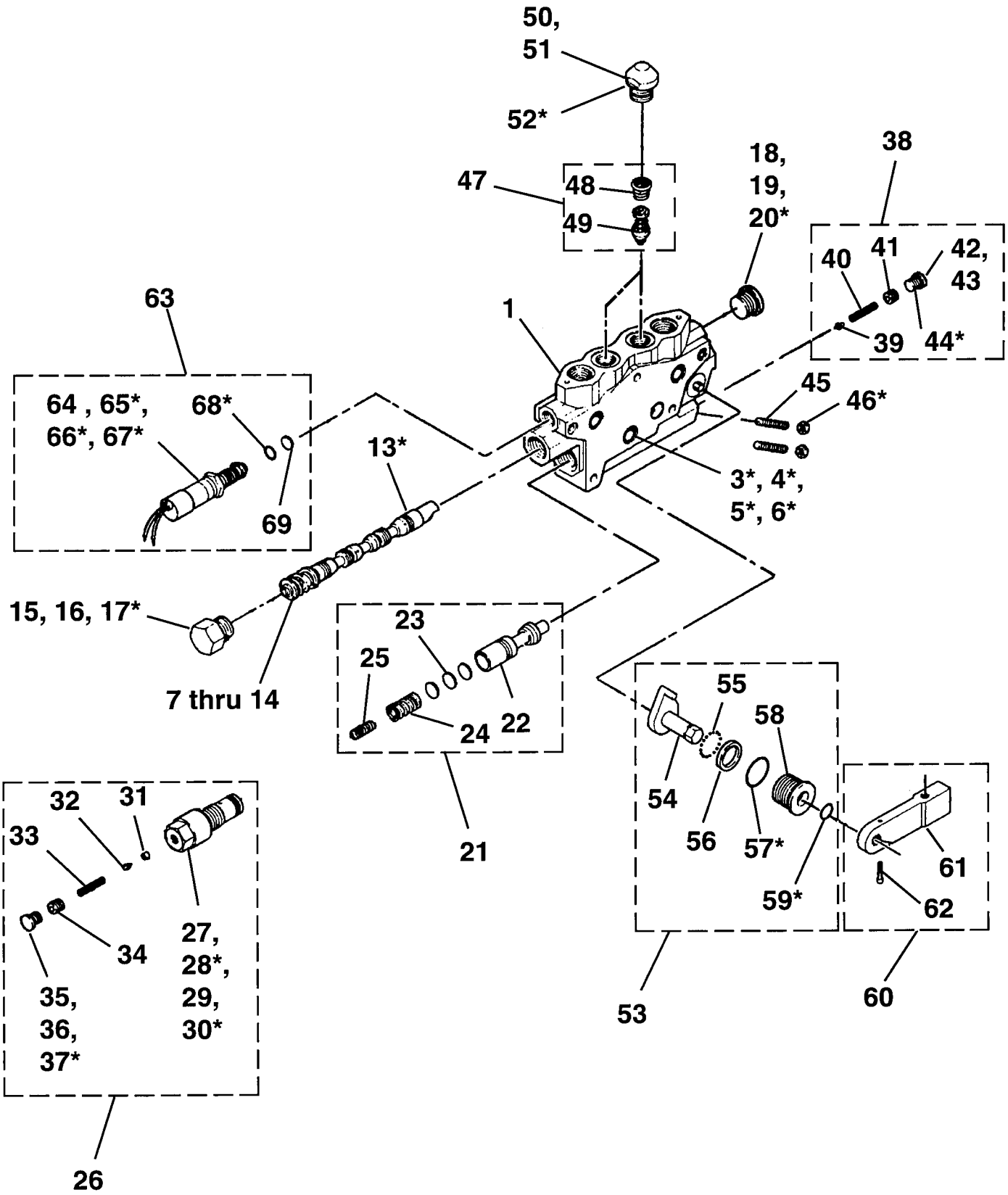


TITLE STEER VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (1 OF 3)

SIMON AERIALS INC. REV. 26 JUL., 1994

PART NO.

PLATE NO. D13.08



TITLE STEER VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (2 OF 3)

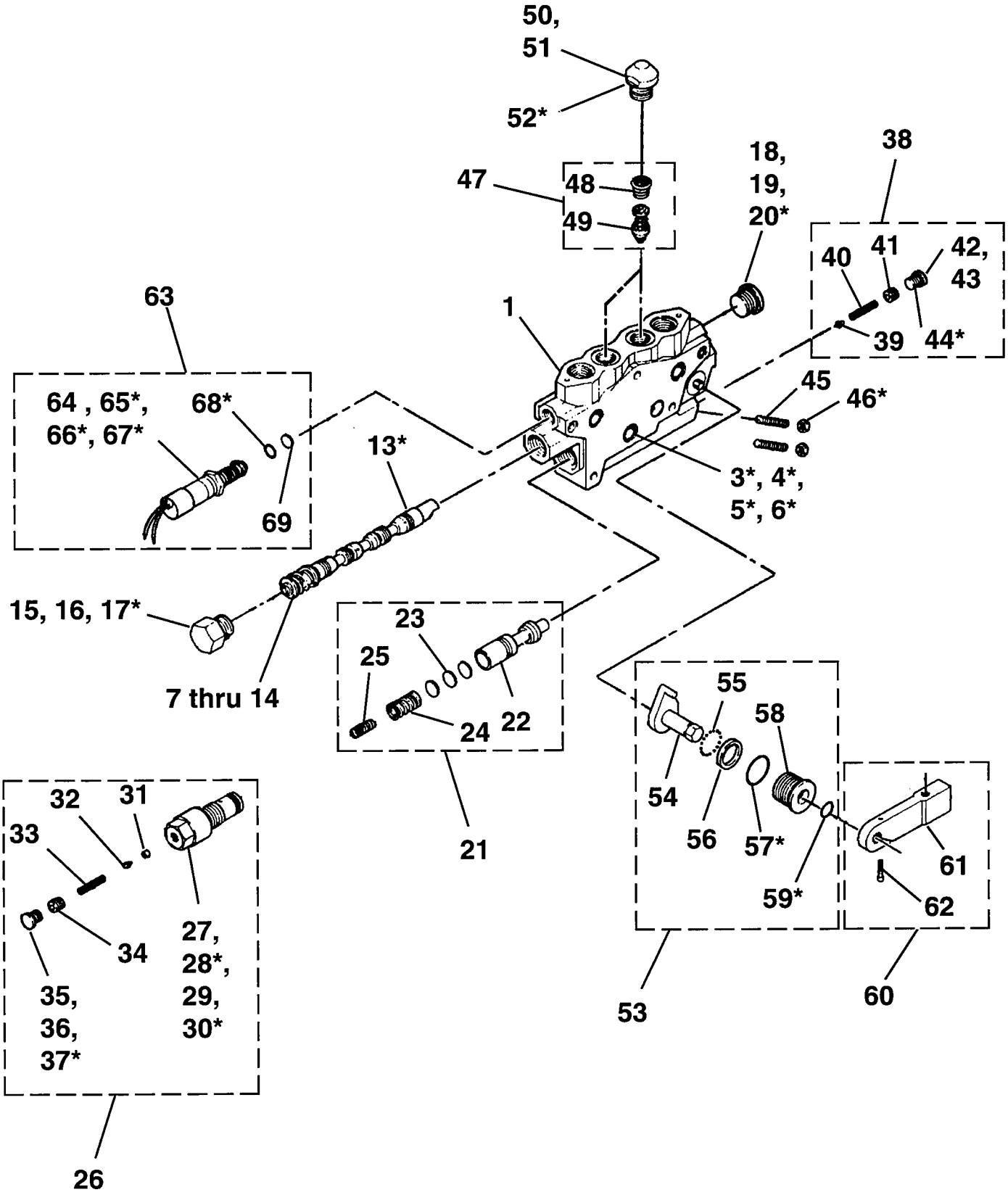
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.08

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)

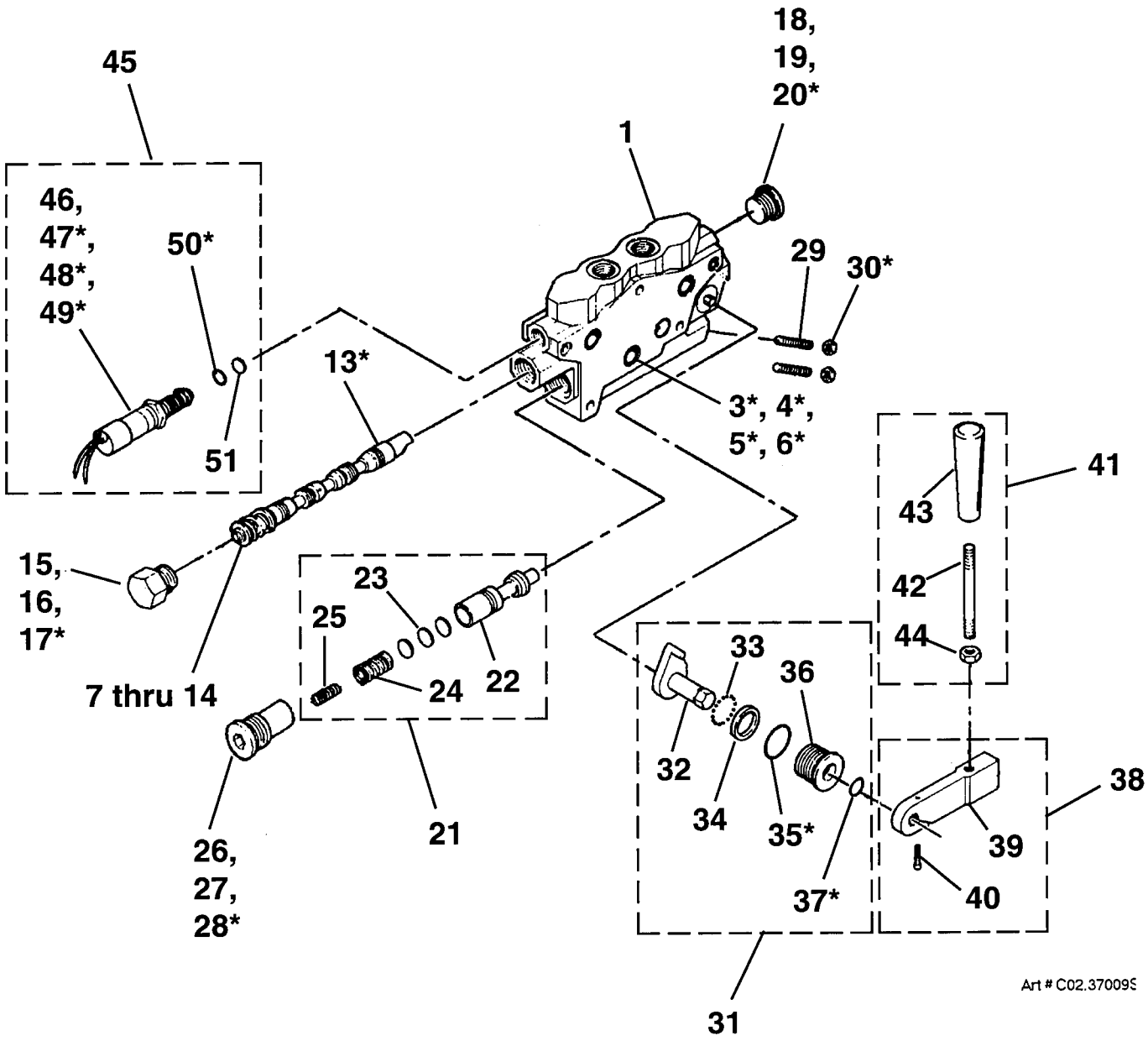
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.08

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.			PART NO.
D13.09	**SIMON AERIALS INC.**	REV. 26 JUL., 1994	



TITLE BOOM VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (1 OF 3)

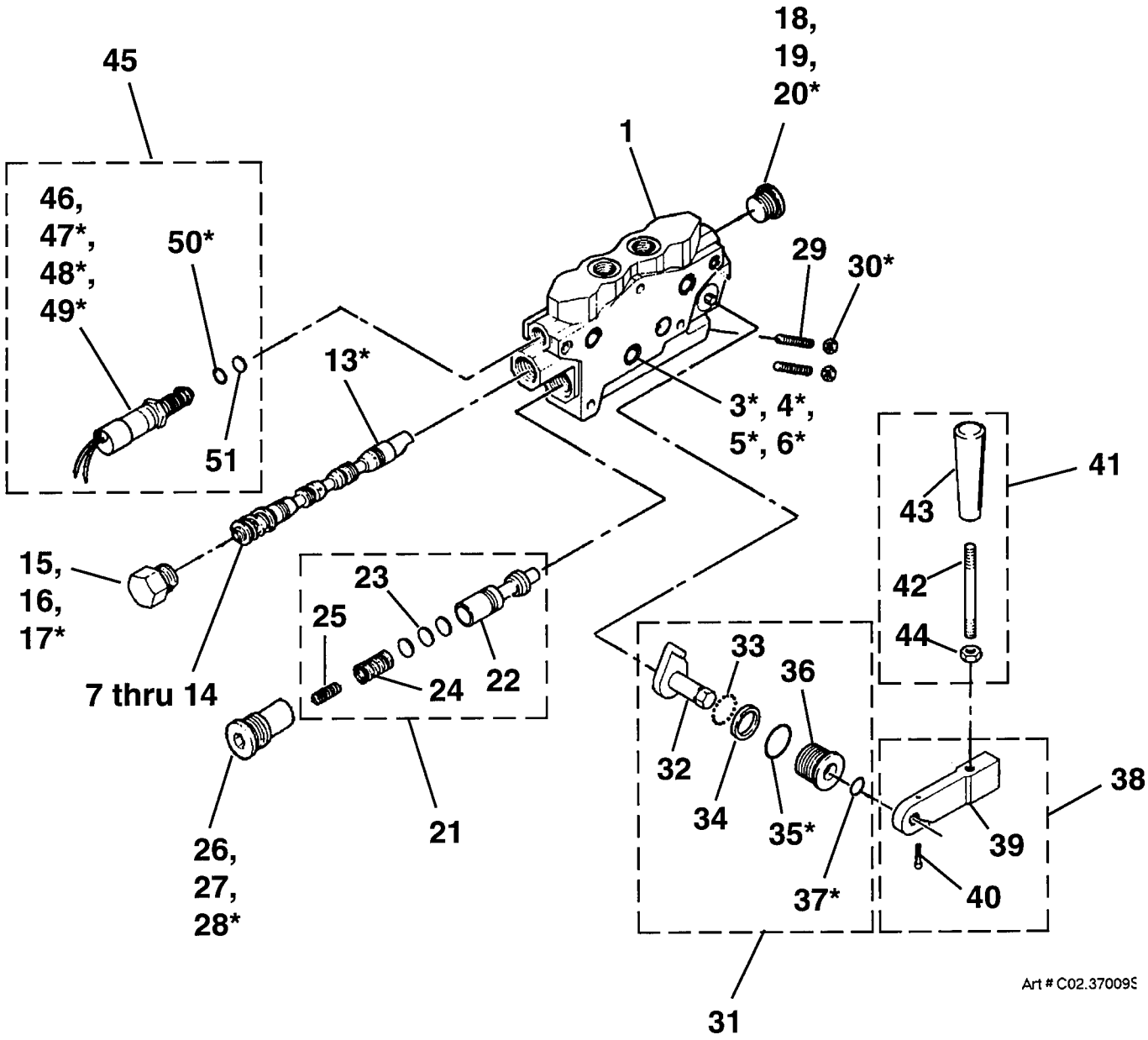
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.09

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	



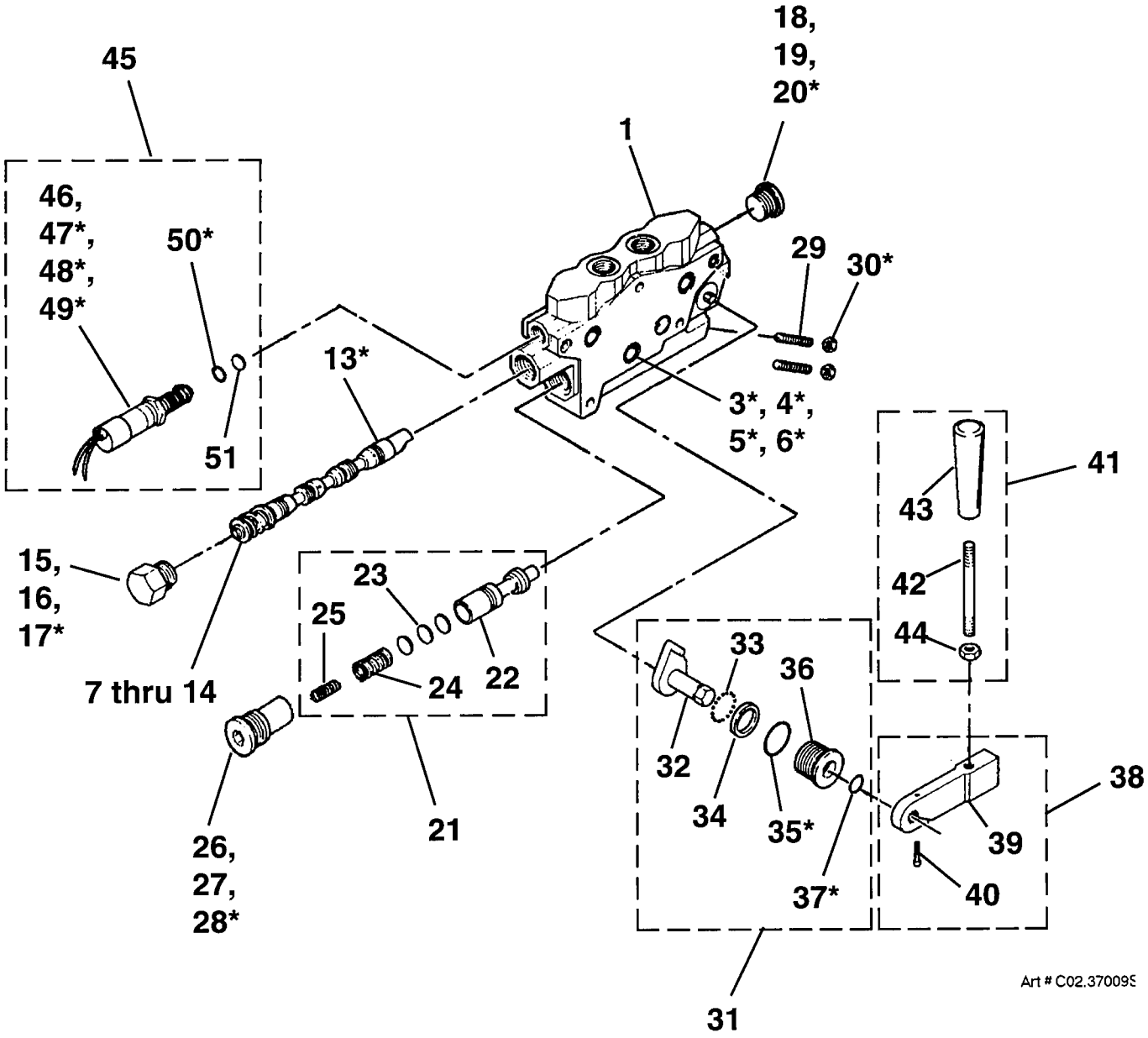
TITLE BOOM VALVE, MP/ RP (ELECTRO-PROPORTIONAL, TYPE 2) (2 OF 3)			
SIMON AERIALS INC.	REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.09

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)

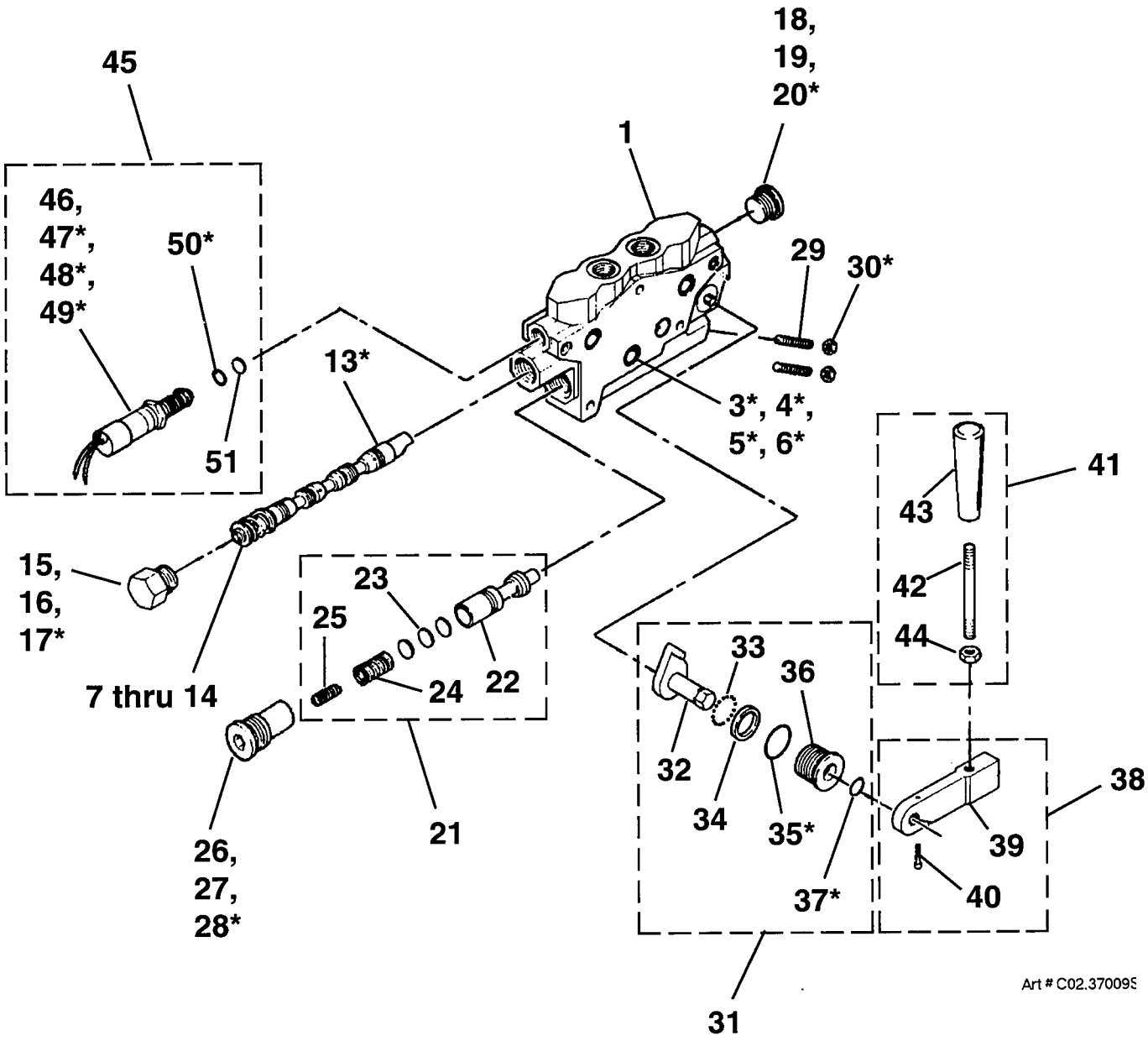
SIMON AERIALS INC. REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.09

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	



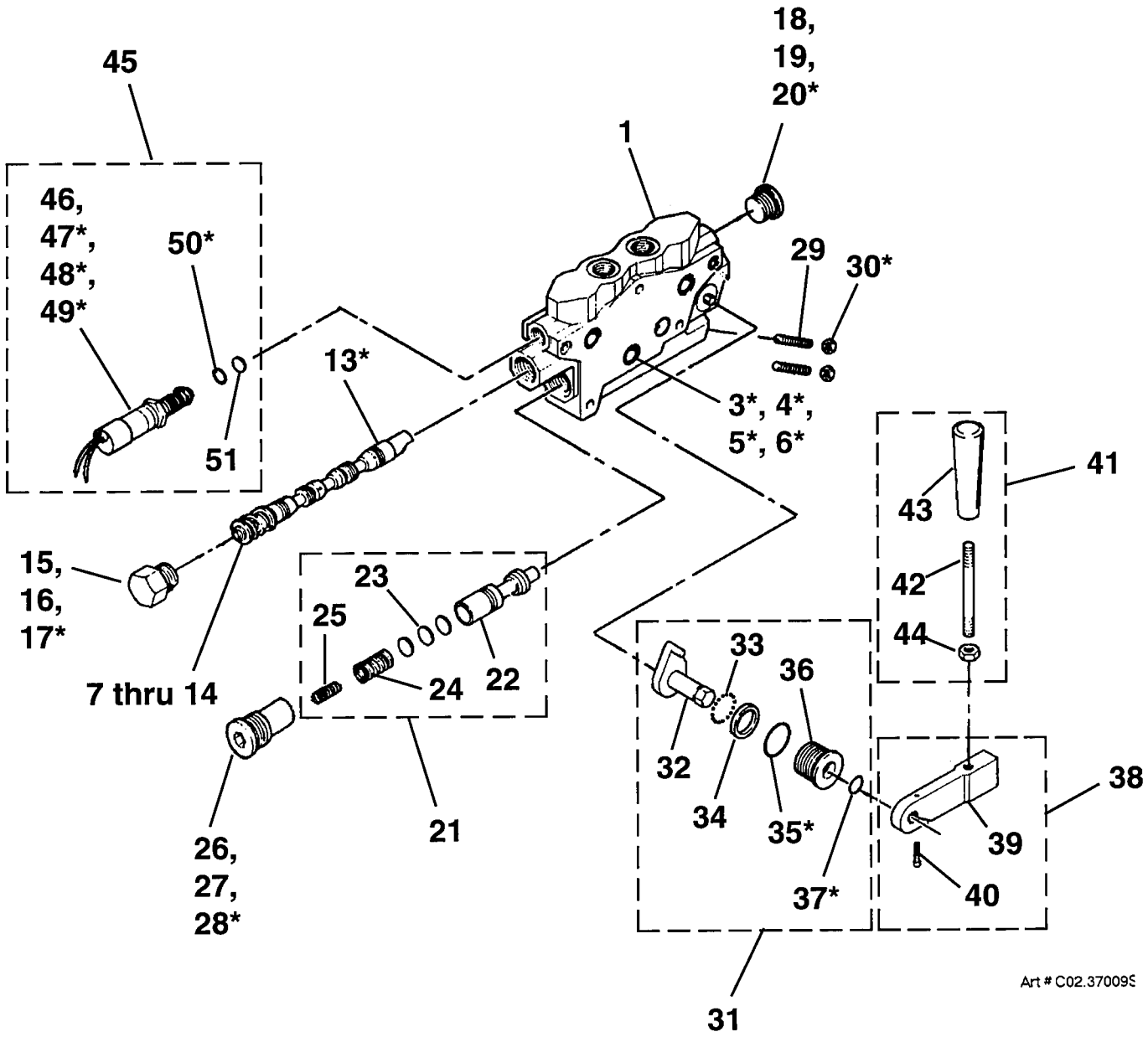
TITLE	SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (1 OF 3)		
SIMON AERIALS INC.	REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.10

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. D13.10 | **SIMON AERIALS INC.** REV. 26 JUL., 1994 | **PART NO.**



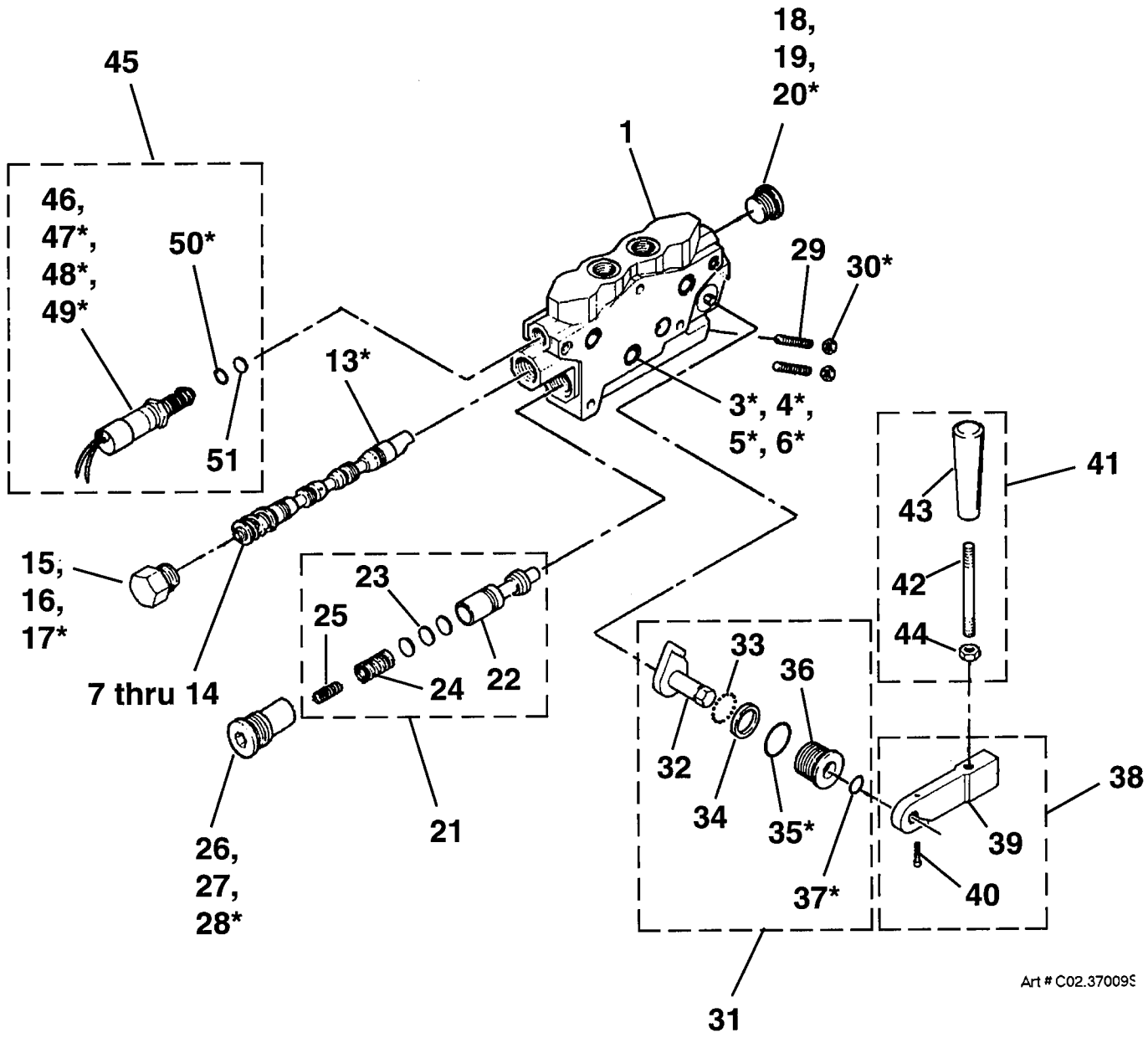
TITLE	SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (2 OF 3)		
SIMON AERIALS INC.	REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.10

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.			PART NO.
D13.10	**SIMON AERIALS INC.**	REV. 26 JUL., 1994	

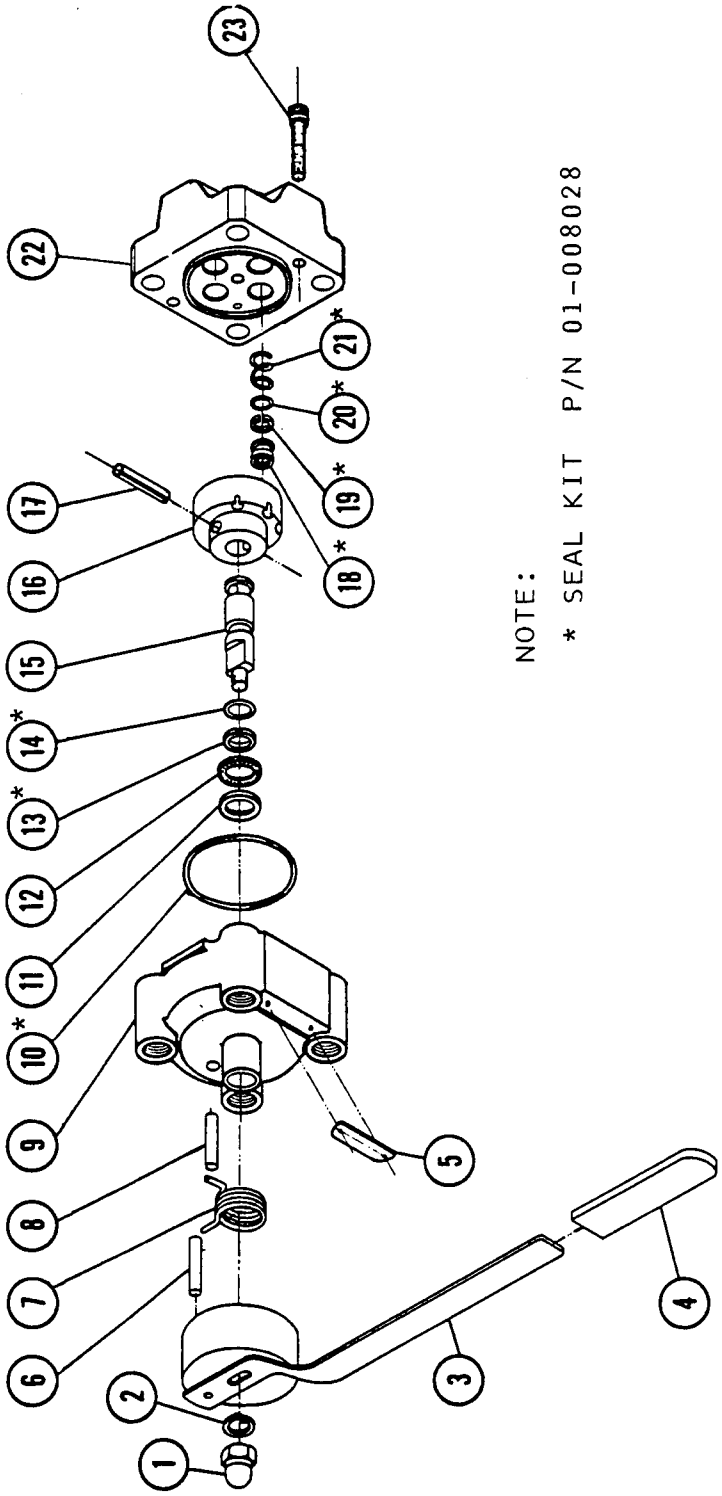


TITLE	SWING VALVE, MP/ RP (ELECTRO-PROPORTIONAL,TYPE 2) (3 OF 3)		
SIMON AERIALS INC.	REV. 26 JUL., 1994	PART NO.	PLATE NO. D13.10

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



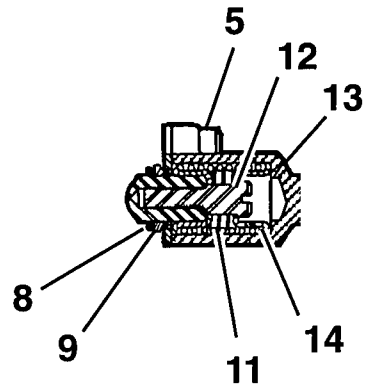
1283/0677

DESCRIPTION	PART NO.
4-WAY MANUAL VALVE	01-008000

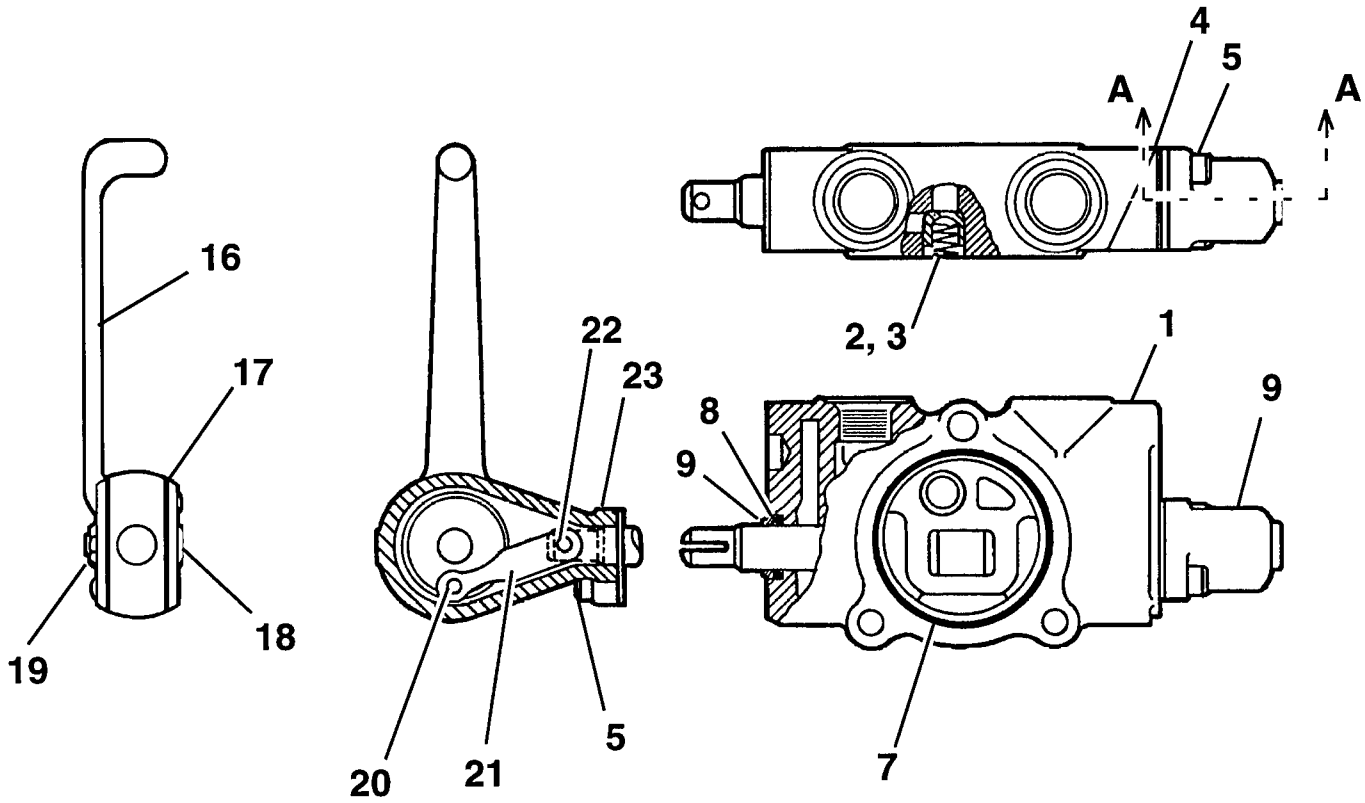
PARTS LIST

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

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)

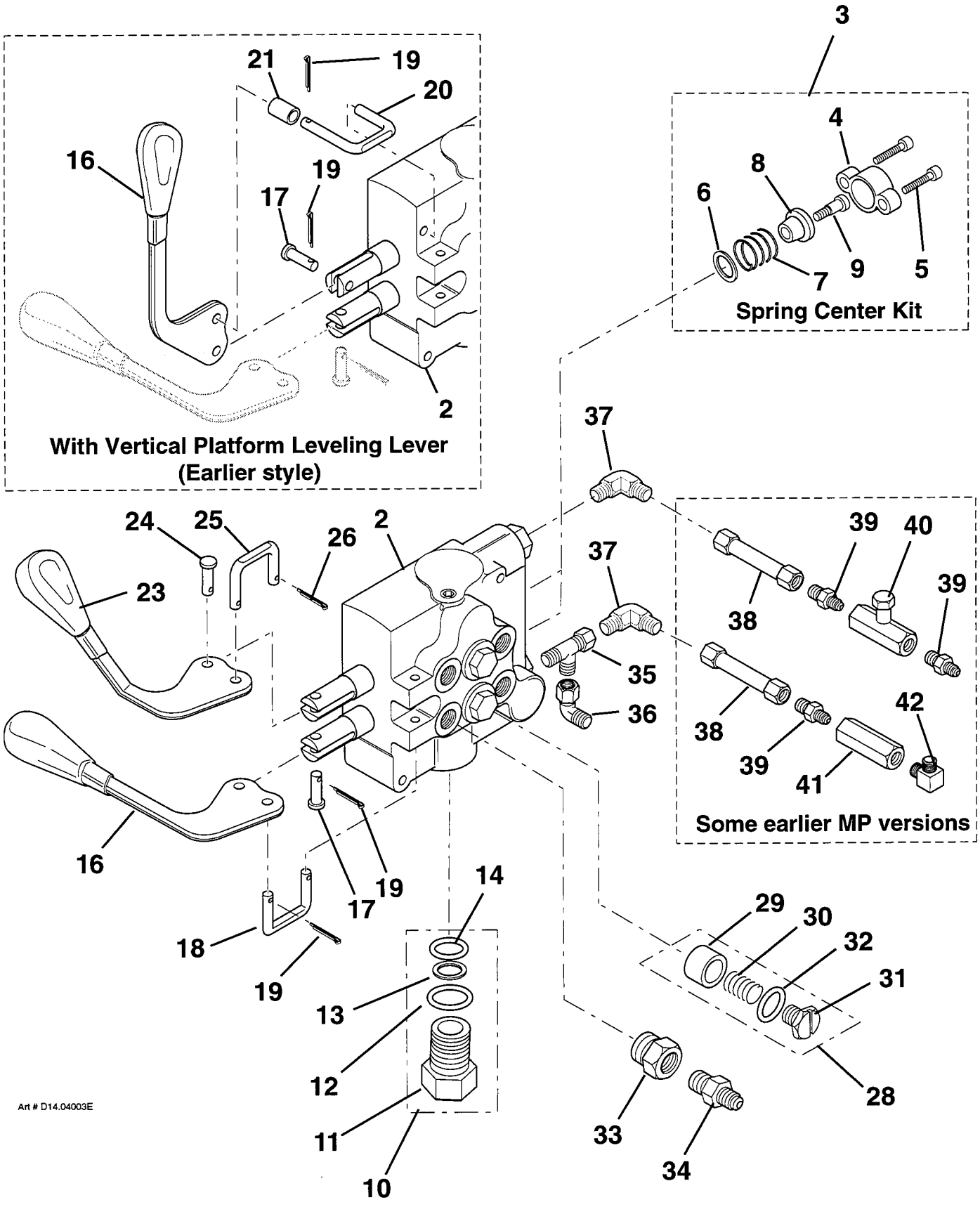
PLATE NO. D14.04 | **SIMON AERIALS INC.** REV. 29 NOV., 1995 | PART NO.

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)

PLATE NO. D14.04 | **SIMON AERIALS INC.** REV. 29 NOV., 1995 | PART NO.



TITLE PLATFORM LEVEL AND ROTATE VALVE ASSEMBLY (PLATE 2 OF 2)

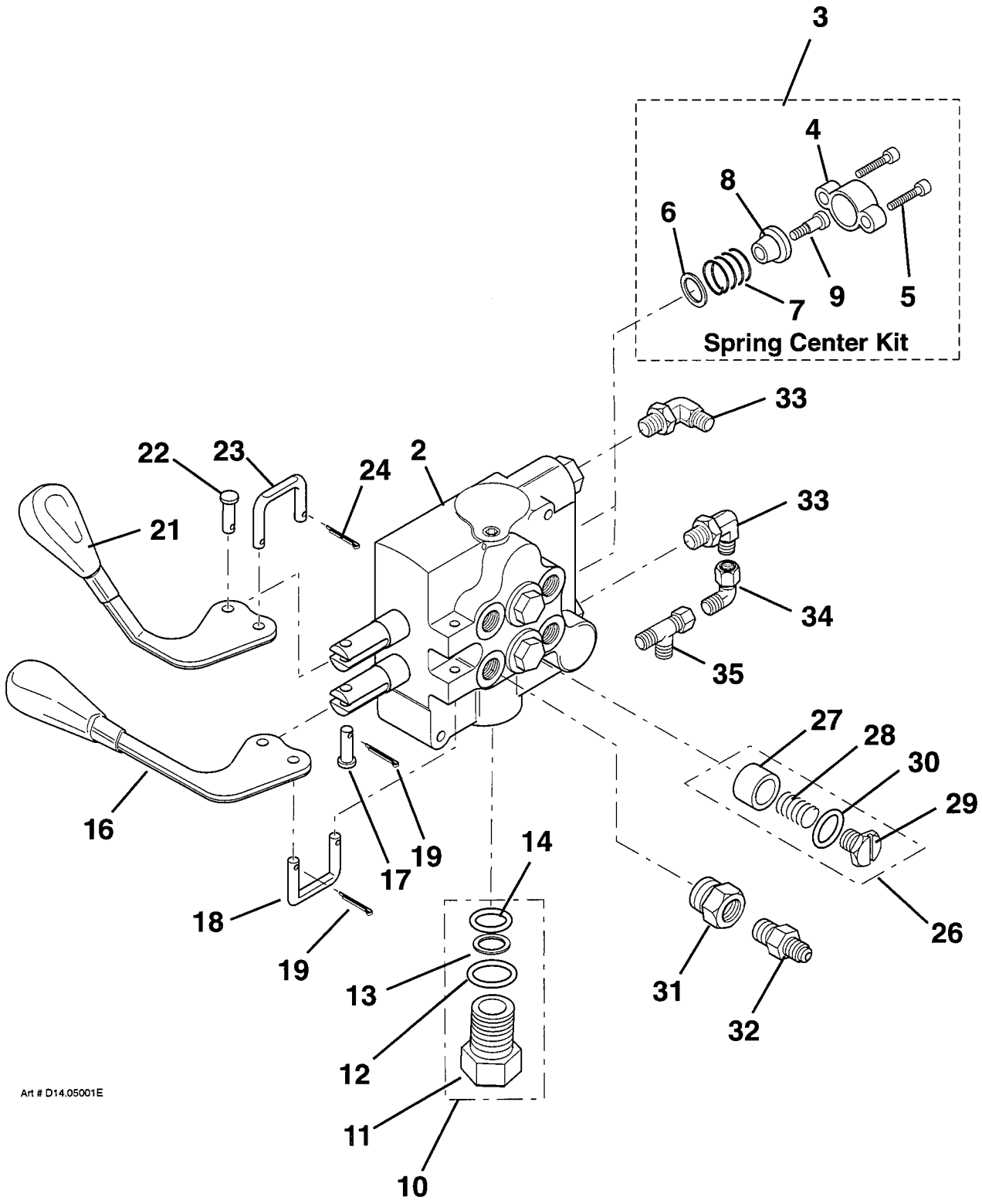
SIMON AERIALS INC. REV. 29 NOV., 1995	PART NO.	PLATE NO. D14.04

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)

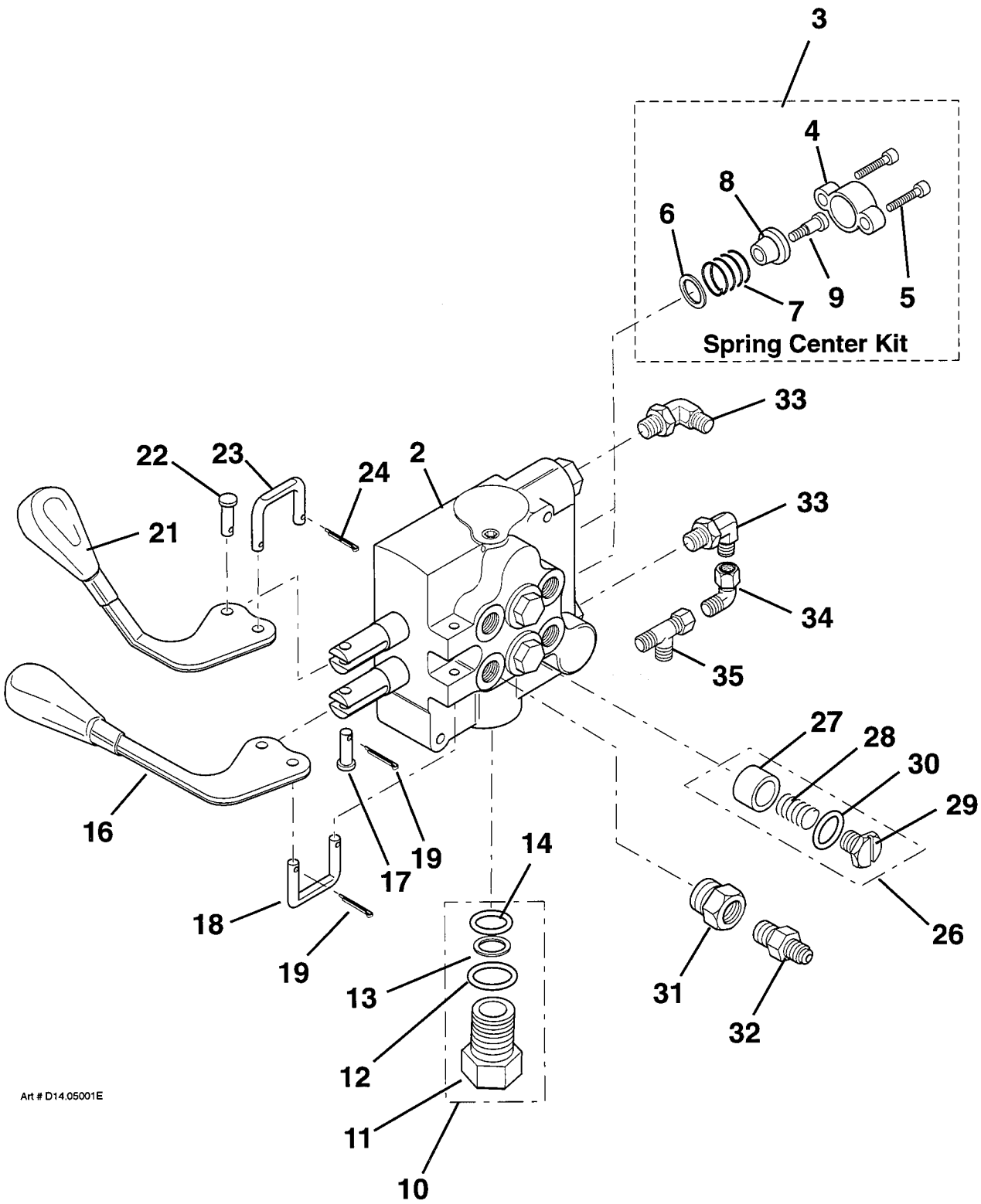
SIMON AERIALS INC. NEW 09 SEP., 1995 | PART NO. 354 4120 | PLATE NO. D14.05

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

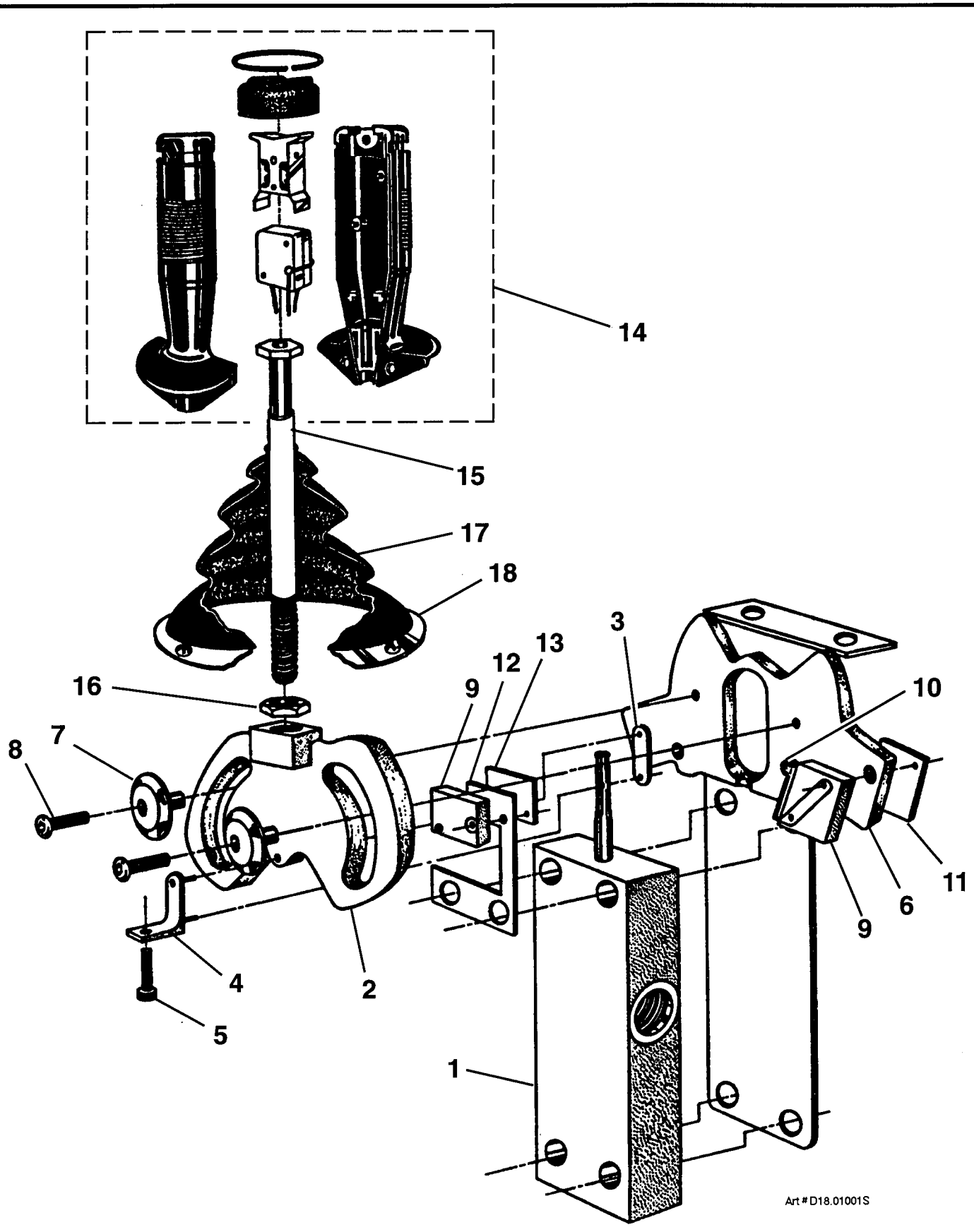


TITLE	PLATFORM LEVEL AND ROTATE VALVE ASSEMBLY (PLATE 2 OF 2)		
SIMON AERIALS INC.	NEW 09 SEP., 1995	PART NO. 354 4120	PLATE NO. D14.05

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	01-004700	D05.02	VALVE, 2-WAY (Flow control valve)	
			Note: Can be used with Water-Glycol hydraulic fluid	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 & hardware)	
			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 MOUNTING	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. 24 AUG., 1994	PART NO.	3510034



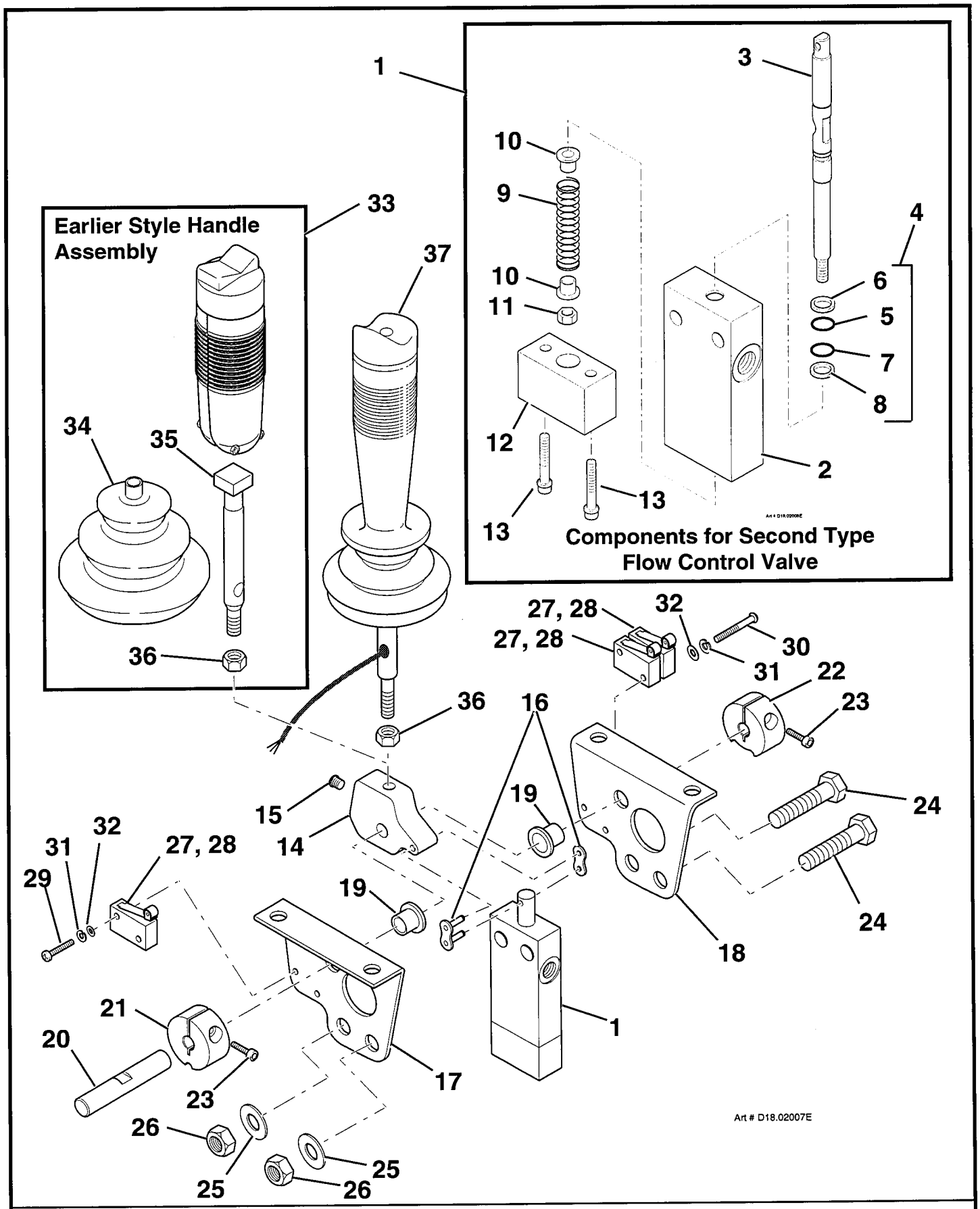
TITLE	DRIVE/ STEER CONTROL VALVE ASSEMBLY		
SIMON AERIALS INC.	REV. 24 AUG., 1994	PART NO. 3510034	PLATE NO. D18.01

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.



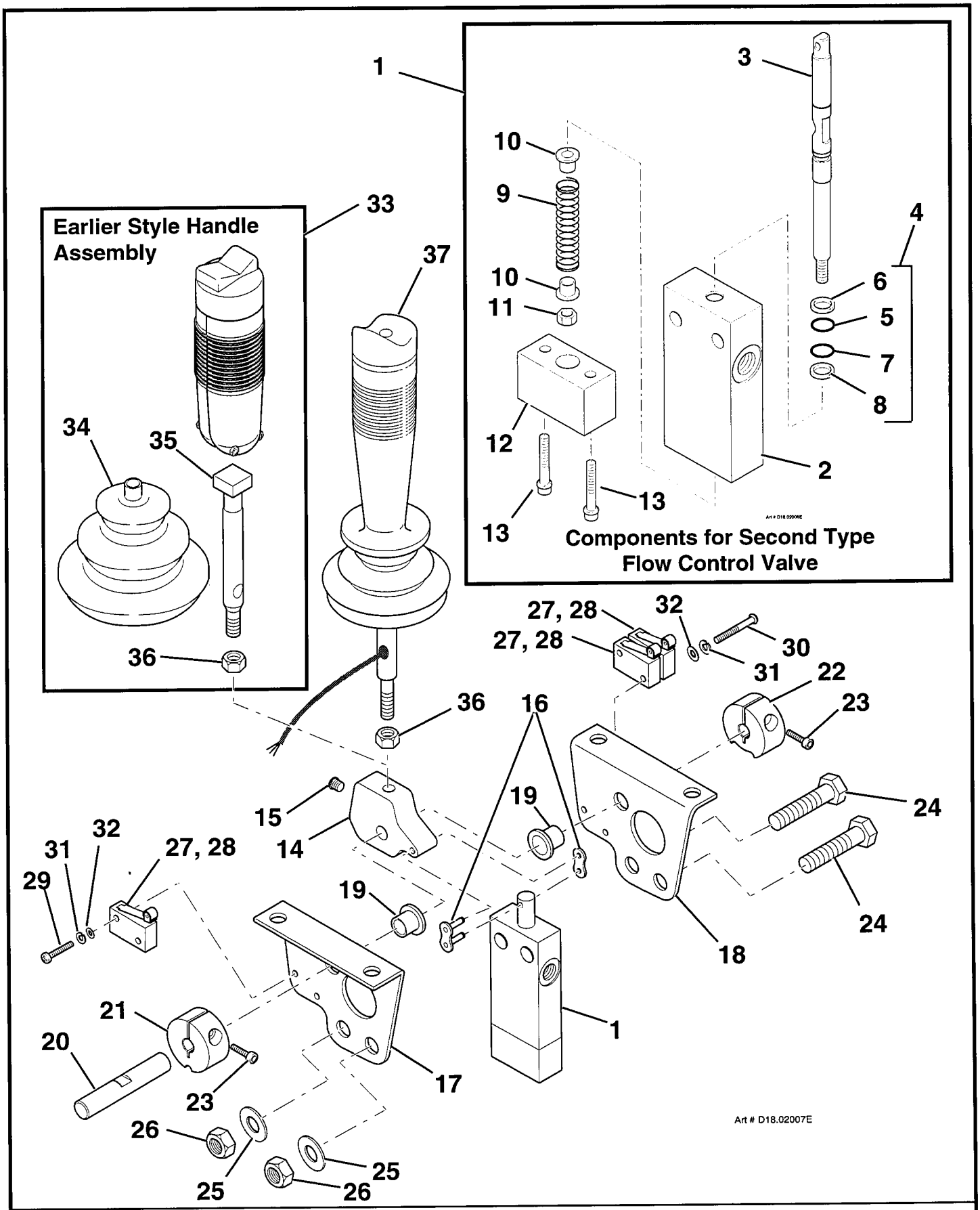
TITLE	DRIVE/ STEER CONTROL VALVE ASSEMBLY (PLATE 1 OF 2)		
SIMON AERIALS INC.	REV. 16 JAN., 1996	PART NO.	PLATE NO. D18.02

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.



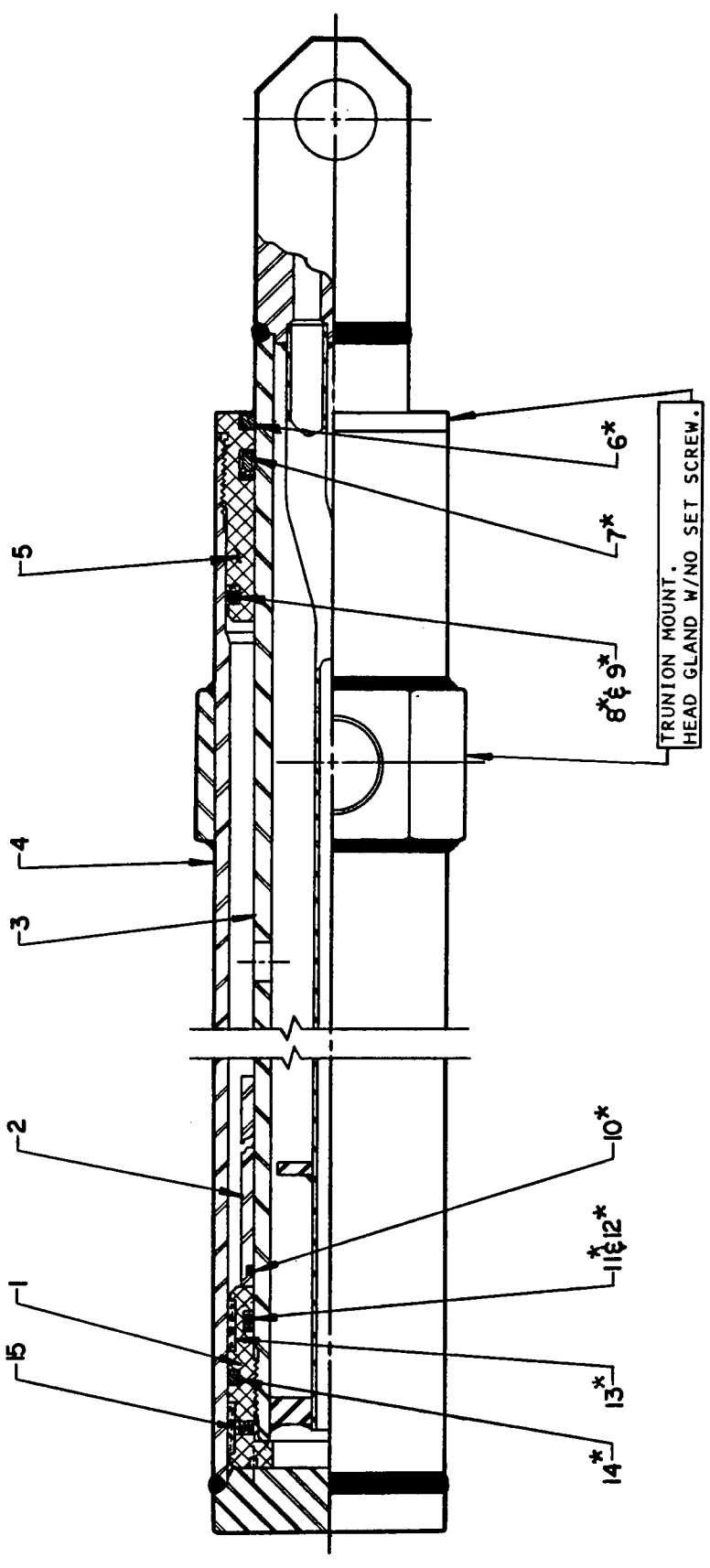
TITLE	DRIVE/ STEER CONTROL VALVE ASSEMBLY (PLATE 2 OF 2)		
SIMON AERIALS INC.	REV. 16 JAN., 1996	PART NO.	PLATE NO. D18.02

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			PISTON	1
2			SPACER	1
3			ROD	1
4			CASE	1
5			HEAD GLAND	1
6*			WIPER	1
7*			ROD SEAL	1
8*			'O' RING	1
9*			BACK-UP RING	1
10*			'O' RING	1
11*			'O' RING	1
12*			BACK-UP RING	1
13*			WEAR RING	2
14*			PISTON SEAL	1
15*			SET SCREW	2
*	04-007501		SEAL KIT	1

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-007800

D19.7





NOTE:
* SEAL KIT P/N 04-007501

0284/0483

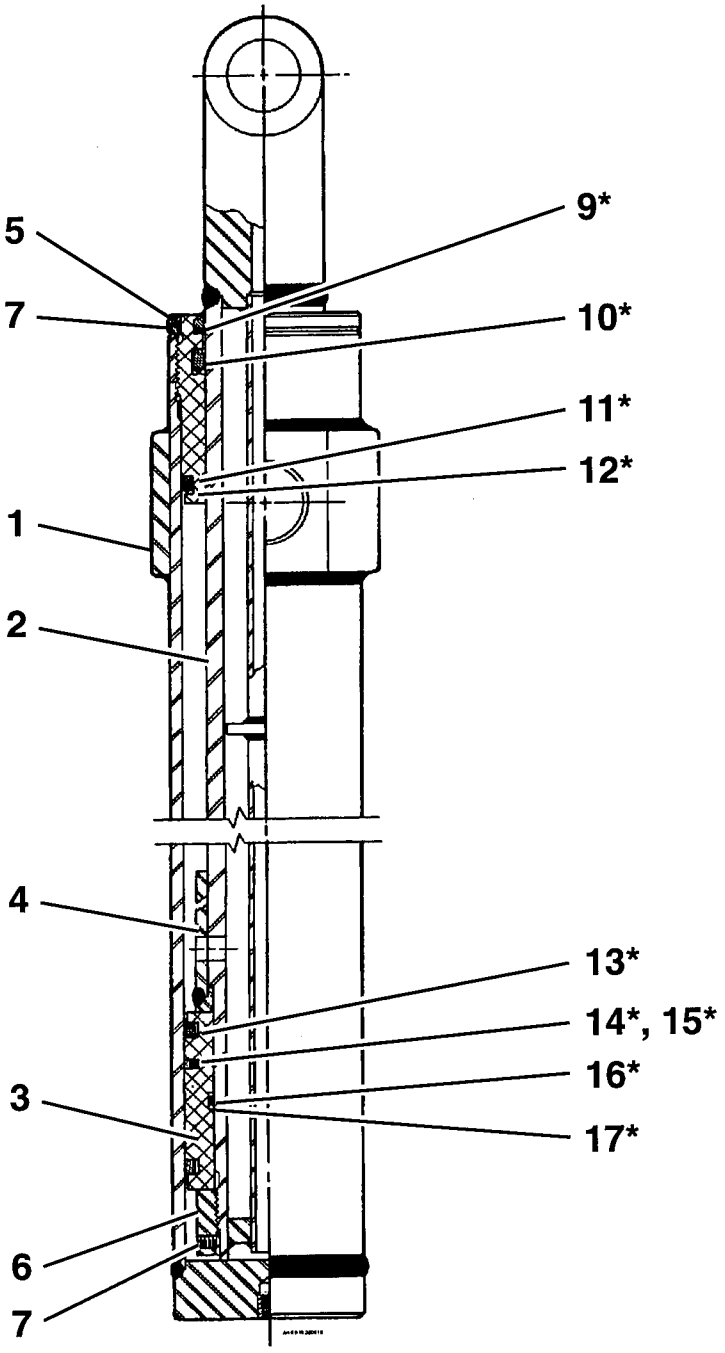
DESCRIPTION	PART NO.
EXTEND CYLINDER	04-007800

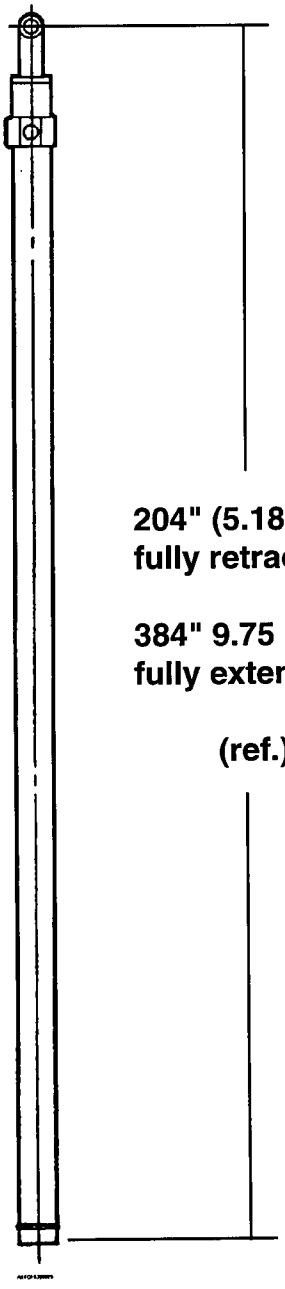
PARTS LIST

ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
1			CASE, CYLINDER	1
2	04-009402		ROD, CYLINDER	1
3			PISTON	1
4			SPACER	1
5			GLAND, HEAD	1
6			NUT, PISTON ROD	1
7			SET SCREW	3
8	04-009401		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, BACK-UP	1
13			RING, PISTON	2
14			SEAL, PISTON	1
15			"O"-RING	1
16			"O"-RING	1
17			WASHER, BACK-UP	2

TITLE TELESCOPE CYLINDER, TRUNNION MOUNT, 180" (4.57 M) STROKE

PLATE NO. D19.08 | **SIMON AERIALS INC.** REV. 05/02/91 | **PART NO.** 04-009400





204" (5.18 M)
fully retracted,

384" 9.75 M)
fully extended

(ref.)

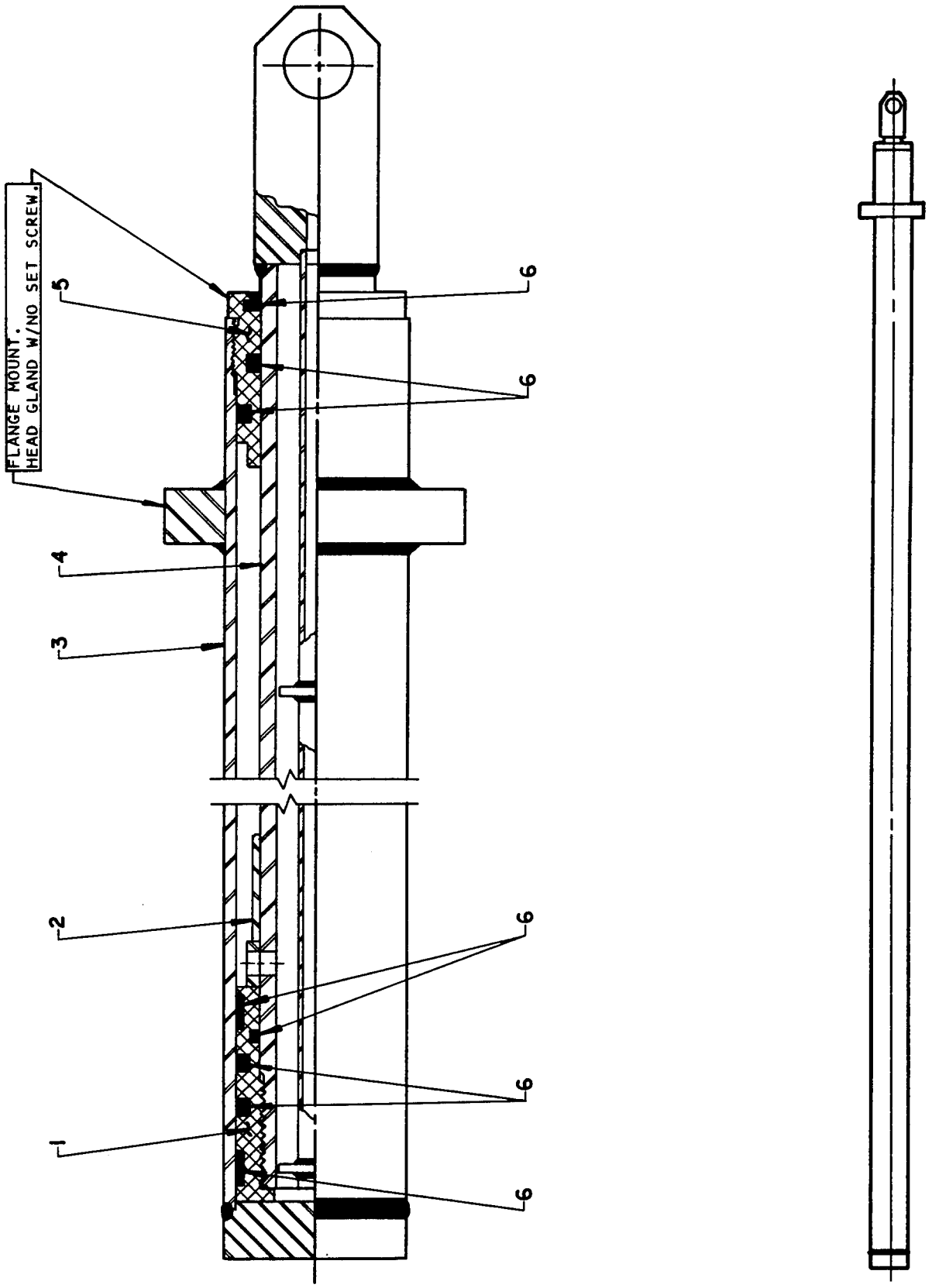
TITLE TELESCOPE CYLINDER, TRUNNION MOUNT, 180" (4.57 M) STROKE

SIMON AERIALS INC.	REV. 05/02/91	PART NO. 04-009400	PLATE NO. D19.08

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	04-006001		SEAL KIT	1

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-006000



0285/0782

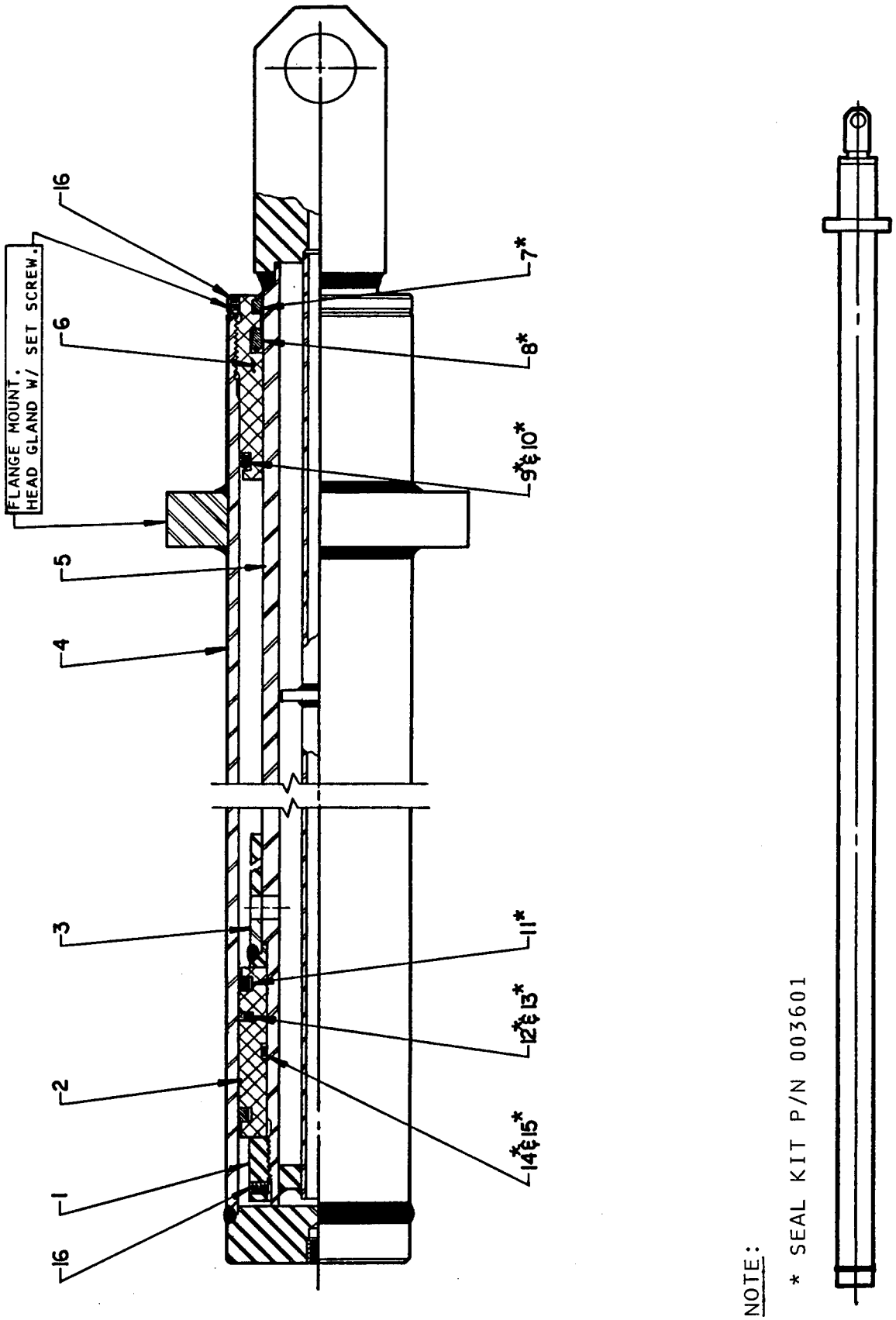
DESCRIPTION	PART NO.
EXTEND CYLINDER	04-006000

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			PISTON NUT	1
2			PISTON	1
3			SPACER	1
4			CASE	1
5	04-003603		ROD	1
6	04-003602		HEAD GLAND	1
7*			WIPER	1
8*			ROD SEAL	1
9*			'O' RING	1
10*			BACK-UP RING	1
11*			PISTON RING	2
12*			ROD SEAL	1
13*			'O' RING	1
14*			'O' RING	1
15*			BACK-UP RING	2
16			SET SCREW	3
*	04-003601		SEAL KIT	1

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-003600

D19.17



NOTE:

* SEAL KIT P/N 003601

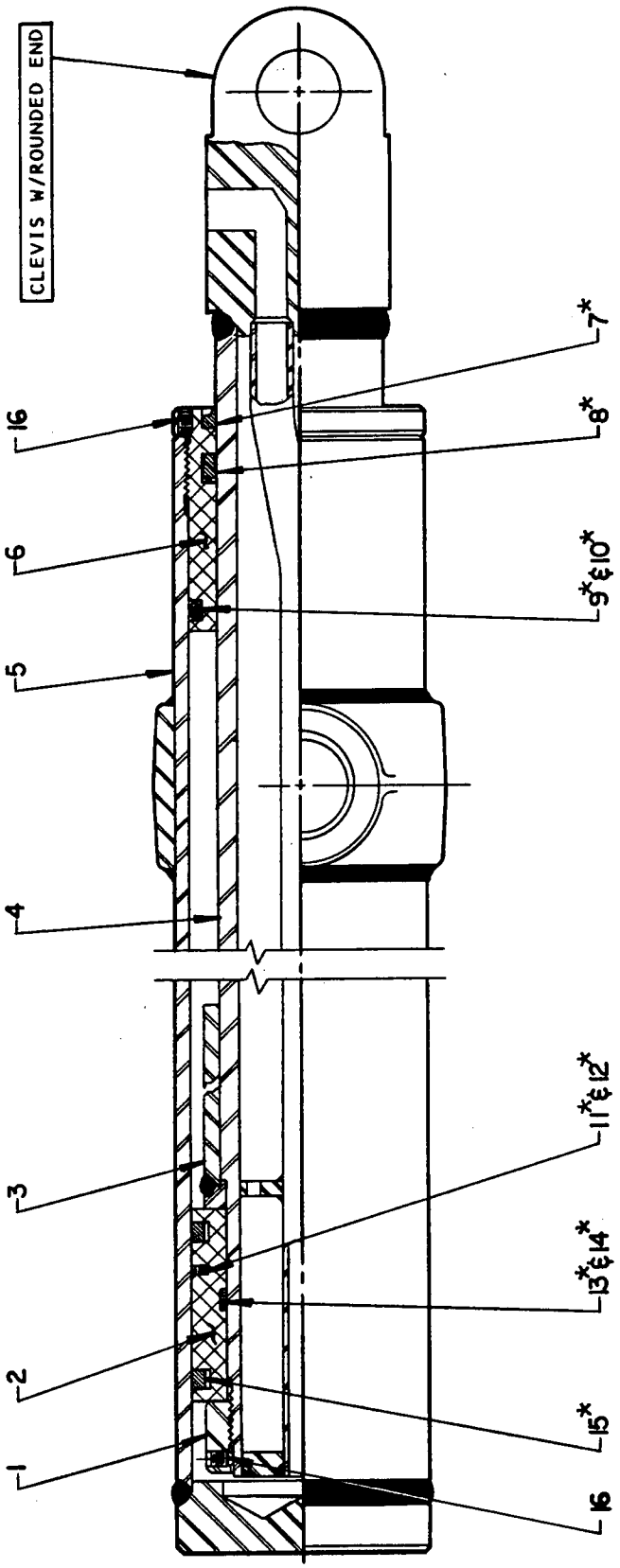
0285/0679

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-003600

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			PISTON NUT	1
2			PISTON	1
3			SPACER	1
4			ROD	1
5			CASE	1
6	04-001302		HEAD GLAND	1
7*			WIPER	1
8*			ROD SEAL	1
9*			'O' RING	1
10*			BACK-UP RING	1
11*			'O' RING	1
12*			PISTON SEAL	1
13*			'O' RING	1
14*			BACK-UP RING	2
15*	04-001303		PISTON RING	2
16			SET SCREW	2
*	04-001301		SEAL KIT	1

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-001300



NOTE:
*SEAL KIT P/N 04-001301



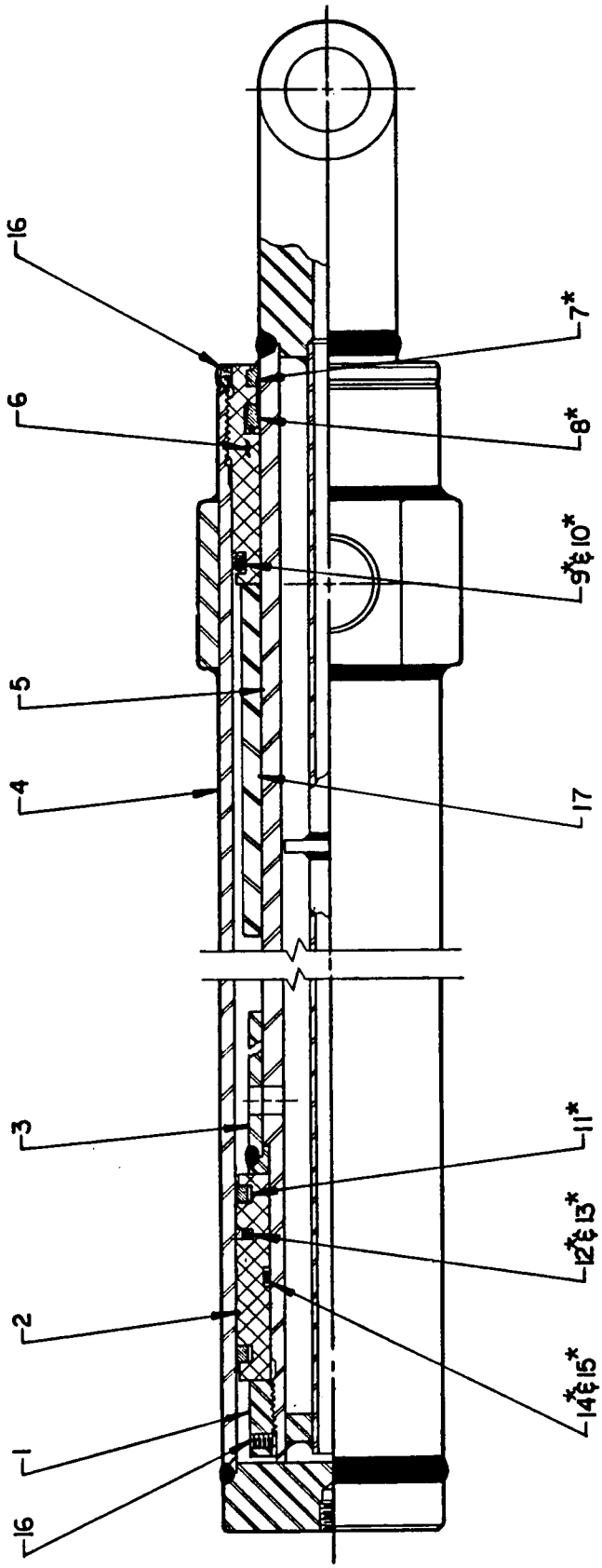
0585/0378

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-001300

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*			WIPER	1
8*			ROD SEAL	1
9*			'O' RING	1
10*			BACK-UP RING	1
11*			PISTON RING	2
12*			PISTON SEAL	1
13*			'O' RING	1
14*			'O' RING	1
15*			BACK-UP RING	2
16			SET SCREW	3
17	SBD-209699-9		SPACER	1
*	04-009401		SEAL KIT	

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-009400-1





NOTE:
* SEAL KIT P/N 04-009401

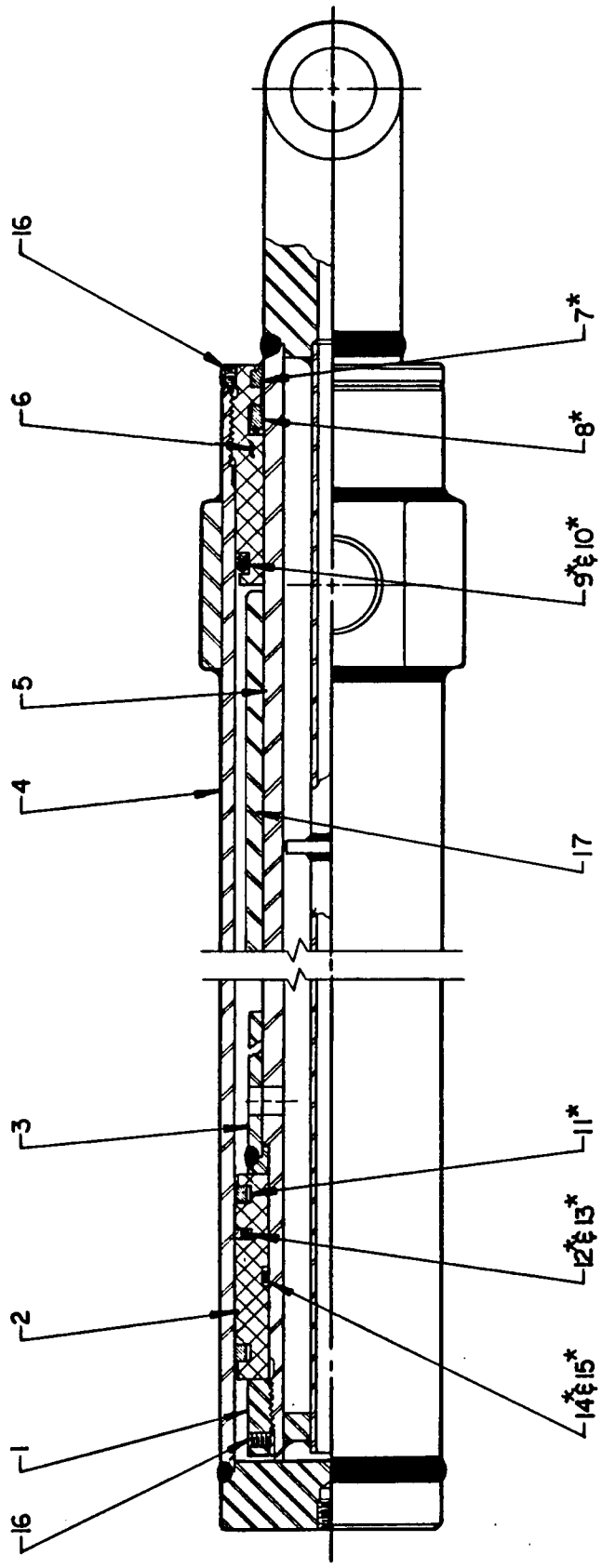
0186/1285

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-009400-1

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			PISTON NUT	1
2			PISTON	1
3			SPACER	1
4			CASE	1
5	04-009402		ROD	1
6			HEAD GLAND	1
7*			WIPER	1
8*			ROD SEAL	1
9*			'O' RING	1
10*			BACK-UP RING	1
11*			PISTON RING	2
12*			PISTON SEAL	1
13*			'O' RING	1
14*			'O' RING	1
15*			BACK-UP RING	2
16			SET SCREW	3
17	SBD-209665-0		SPACER	1
*	04-009401		SEAL KIT	

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-009400-2





NOTE:
* SEAL KIT P/N 04-009401

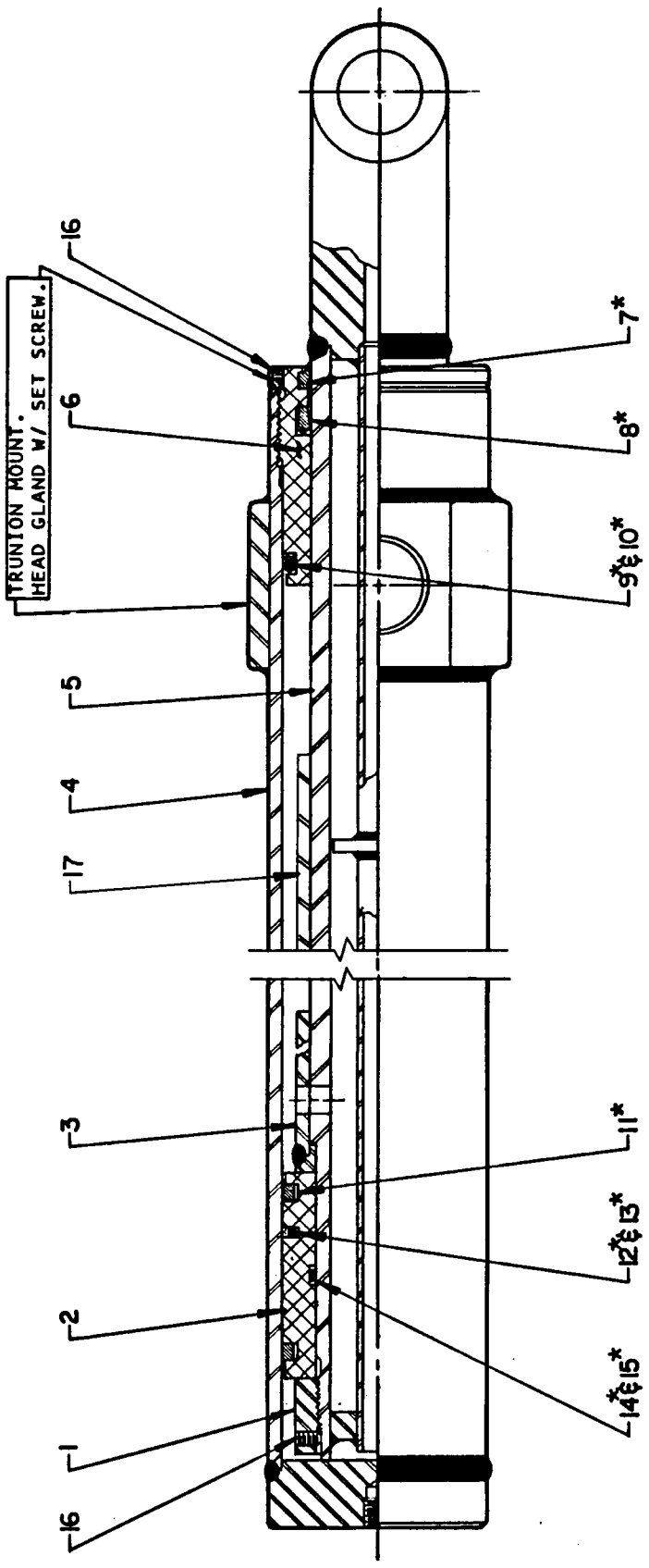
0286/0186

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-009400-2

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			PISTON NUT	1
2			PISTON	1
3			SPACER	1
4			CASE	1
5	04-009402		ROD	1
6			HEAD GLAND	1
7*			WIPER	1
8*			ROD SEAL	1
9*			'O' RING	1
10*			BACK-UP RING	1
11*			PISTON RING	2
12*			PISTON SEAL	1
13*			'O' RING	1
14*			'O' RING	1
15*			BACK-UP RING	2
16			SET SCREW	3
17	SBD-2102320		SPACER	1
*	04-009401		SEAL KIT	

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-009400-3





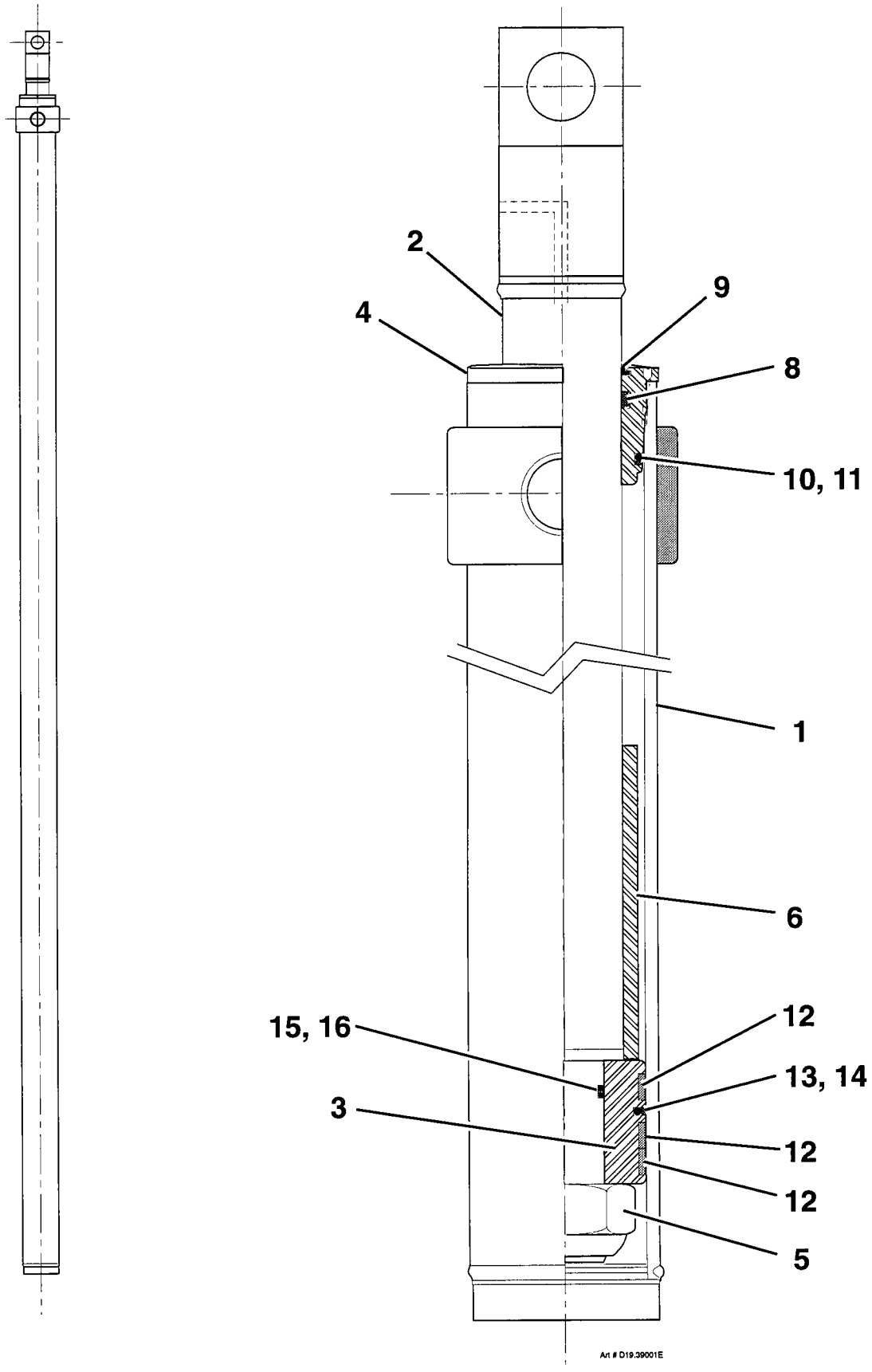
NOTE:
* SEAL KIT P/N 04-009401

DESCRIPTION	PART NO.
EXTEND CYLINDER	04-009400-3

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Cylinder can be identified by Part Number "04036100SH" 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	4
7	04-036101		SEAL KIT	1
8			WIPER, ROD	1
9			SEAL, ROD	1
10			"O"-RING	1
11			RING, BACKUP	1
12			RING, PISTON WEAR	3
13			"O"-RING	1
14			SEAL, PISTON	1
15			"O"-RING	1
16			WASHER, BACKUP	1

TITLE	TELESCOPE CYLINDER, 180" (4.57 M) STROKE		
PLATE NO. D19.39	**SIMON AERIALS INC.**	NEW 27 APR., 1994	PART NO. 04-036100

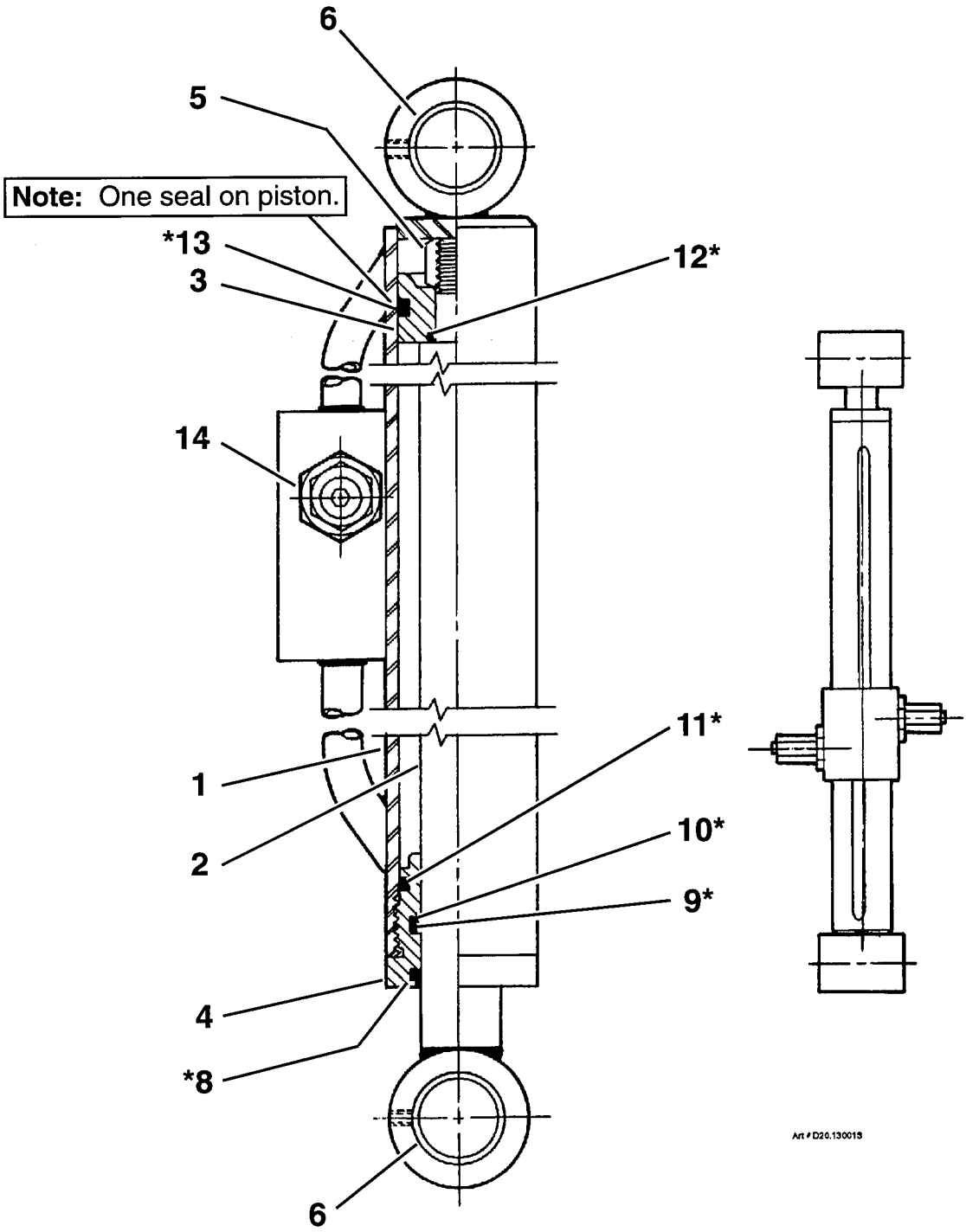


TITLE	TELESCOPE CYLINDER, 180" (4.57 M) STROKE		
SIMON AERIALS INC. NEW 27 APR., 1994		PART NO. 04-036100	PLATE NO. D19.39

PARTS LIST

ITEM	PART NO	SEE SECT.	DESCRIPTION	QTY.
			Identifying features of cylinder 04-007200: 1. One seal on piston.	
1			CASE, CYLINDER	1
2			ROD, CYLINDER	1
3			PISTON	1
4			GLAND, HEAD	1
5			NUT, PISTON ROD	1
6			BUSHING	3
7	04-007101		SEAL KIT (not for use with water-glycol hydraulic fluid) **Note:** Items in kit identified by asterisk (*).	1
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 LEVEL CYLINDER, 15.5" (.39 M) STROKE			
PLATE NO. D20.01	**SIMON AERIALS INC.**	REV. 05/02/91	PART NO.	04-007200

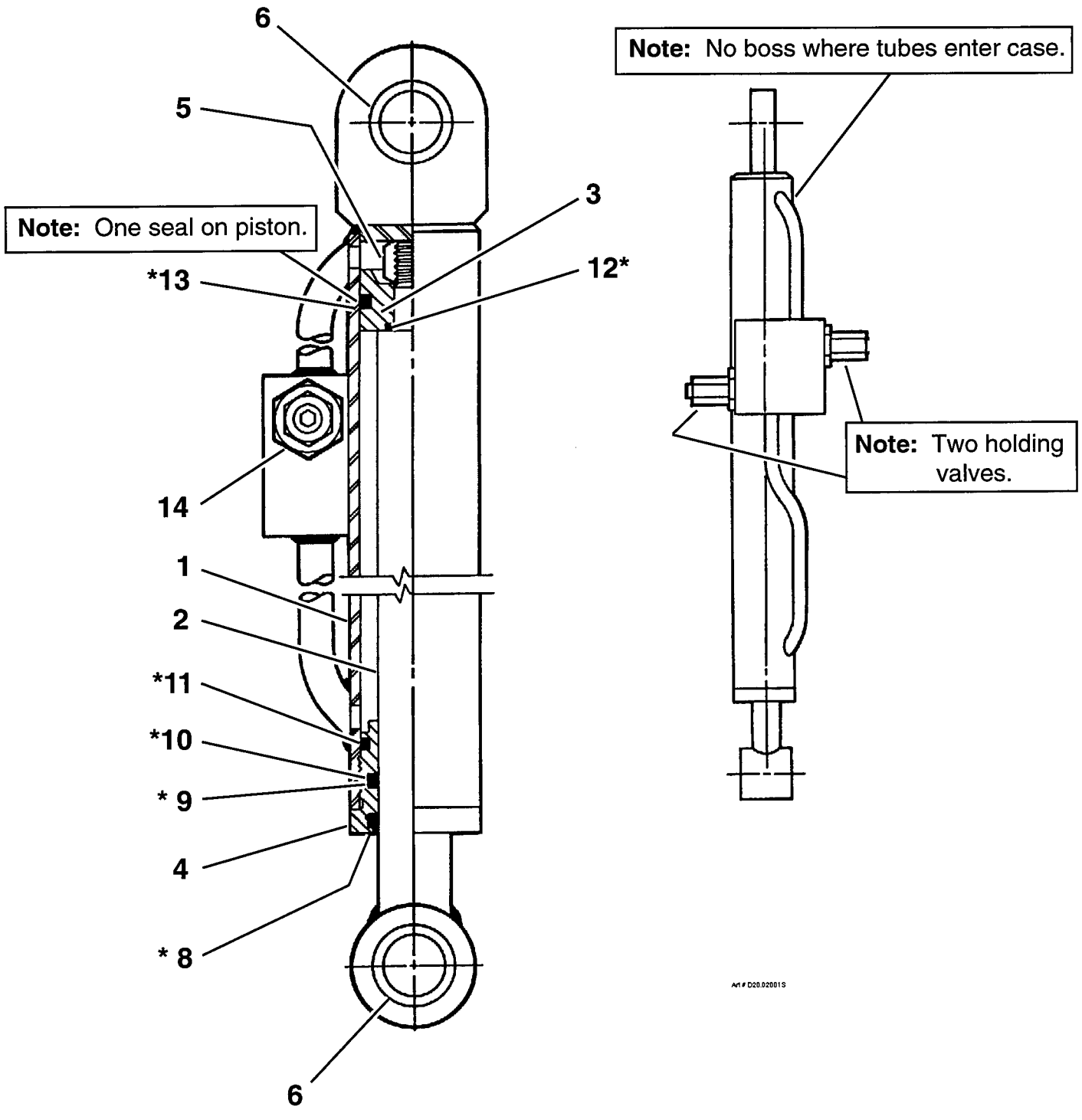


TITLE	SLAVE LEVEL CYLINDER, 15.5" (.39 M) STROKE		
SIMON AERIALS INC. REV. 05/02/91		PART NO. 04-007200	PLATE NO. D20.01

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

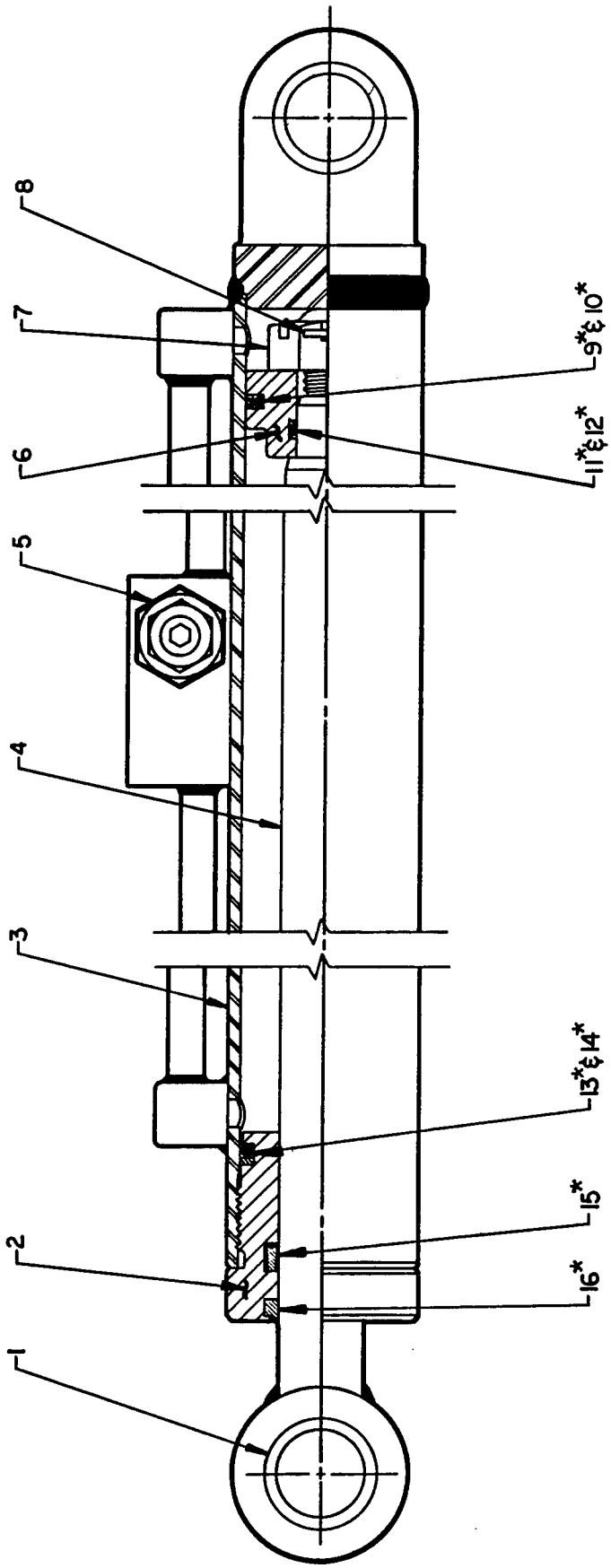


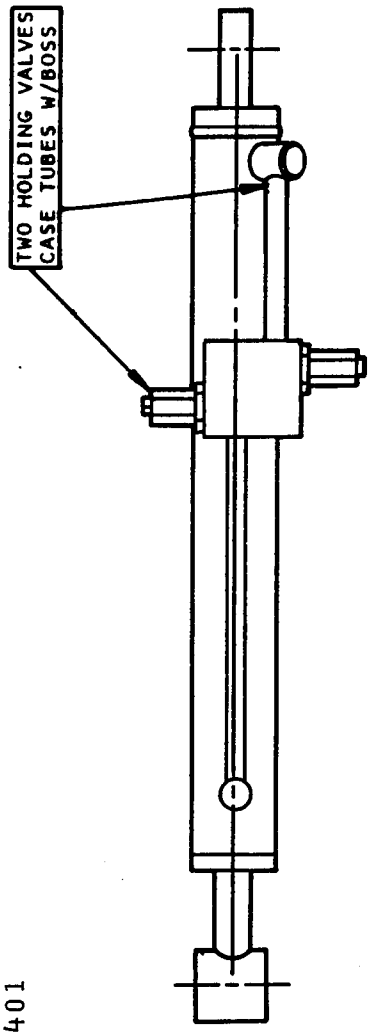
TITLE	SLAVE LEVELING CYLINDER, 17.8" (.45 M) STROKE		
SIMON AERIALS INC. REV. 05/02/91	PART NO. 04-007300	PLATE NO. D20.02	

PARTS LIST

ITEM	PART NO.	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

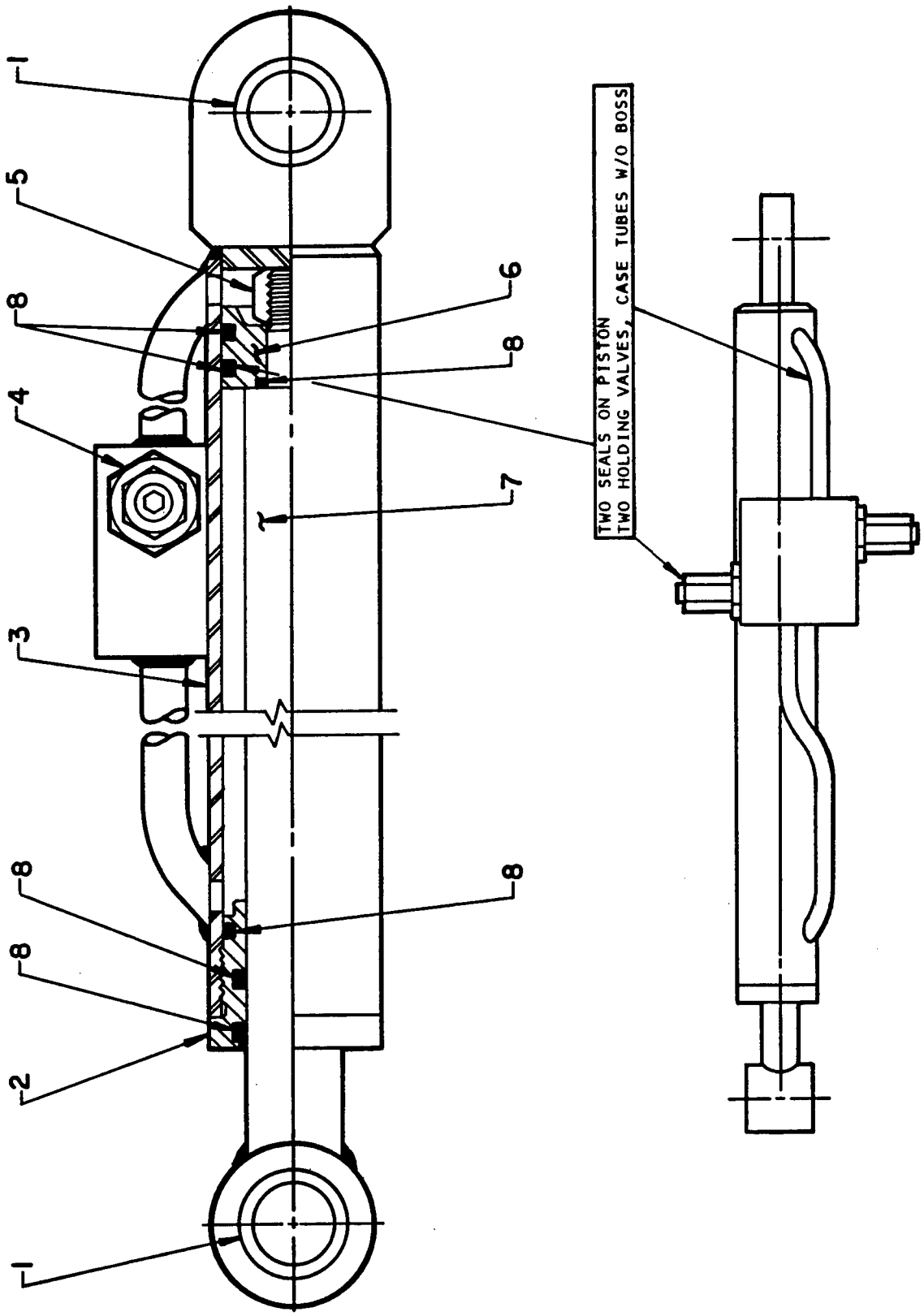
1184/0379

DESCRIPTION	PART NO.
SLAVE LEVELING CYLINDER	04-003300

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			BUSHING	3
2	04-004502		HEAD GLAND	1
3			CASE	1
4	01-032500		HOLDING VALVE	2
5	04-004504		PISTON NUT	1
6	04-004503		PISTON	1
7	04-004501		ROD	1
8	04-004401		SEAL KIT	1

DESCRIPTION	PART NO.
SLAVE LEVELING CYLINDER	04-004500



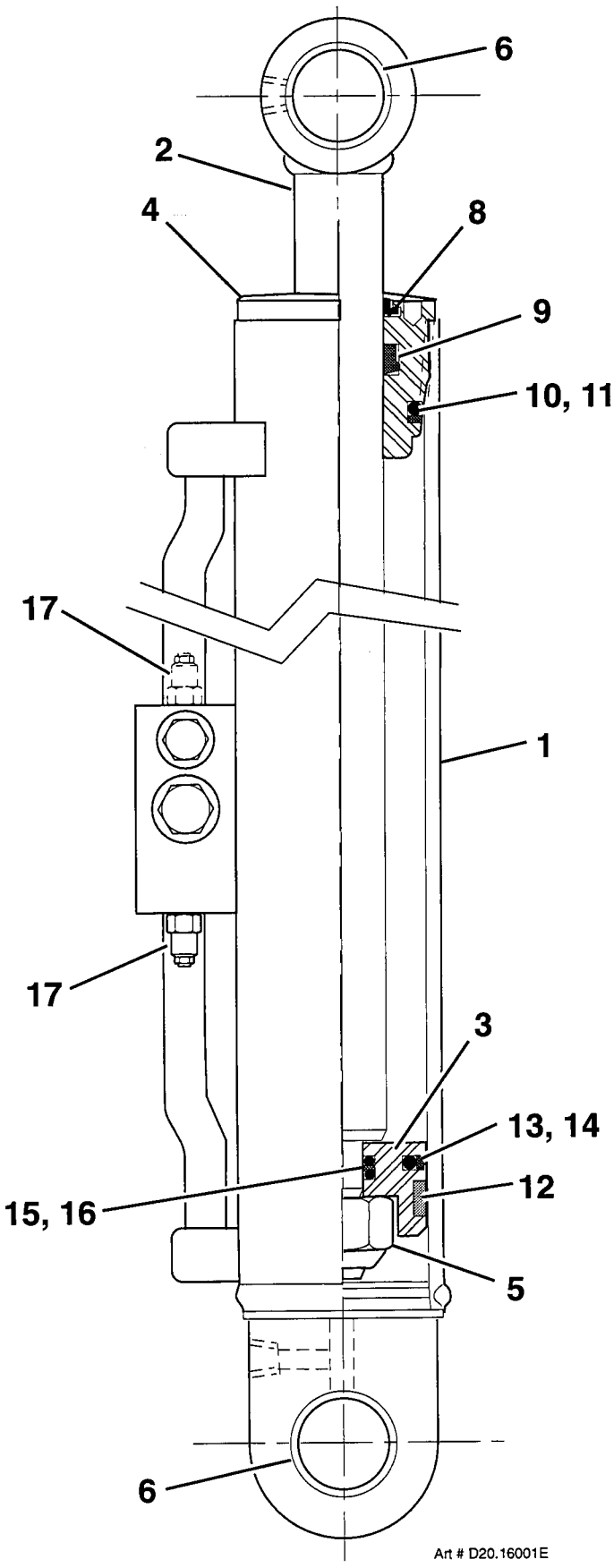
1184/0881

DESCRIPTION	PART NO.
SLAVE LEVELING CYLINDER	04-004500

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**-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, 17-3/4" (.45 M) STROKE		
PLATE NO. D20.16	**SIMON AERIALS INC.**	NEW 27 APR., 1994	**PART NO.** 04-035400

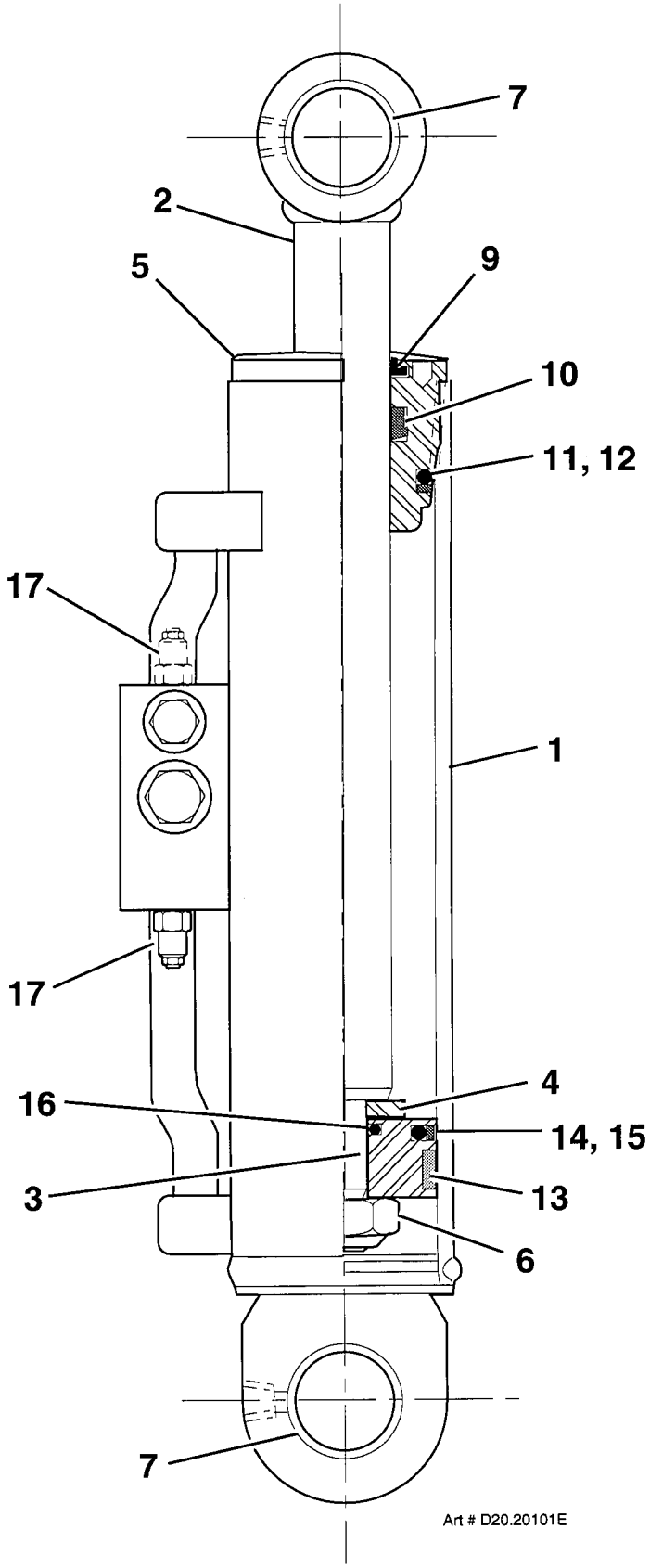


TITLE	SLAVE LEVEL CYLINDER, 17-3/4" (.45 M) STROKE		
SIMON AERIALS INC. NEW 27 APR., 1994		PART NO. 04-035400	PLATE NO. D20.16

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Cylinder can be identified by Part Number "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

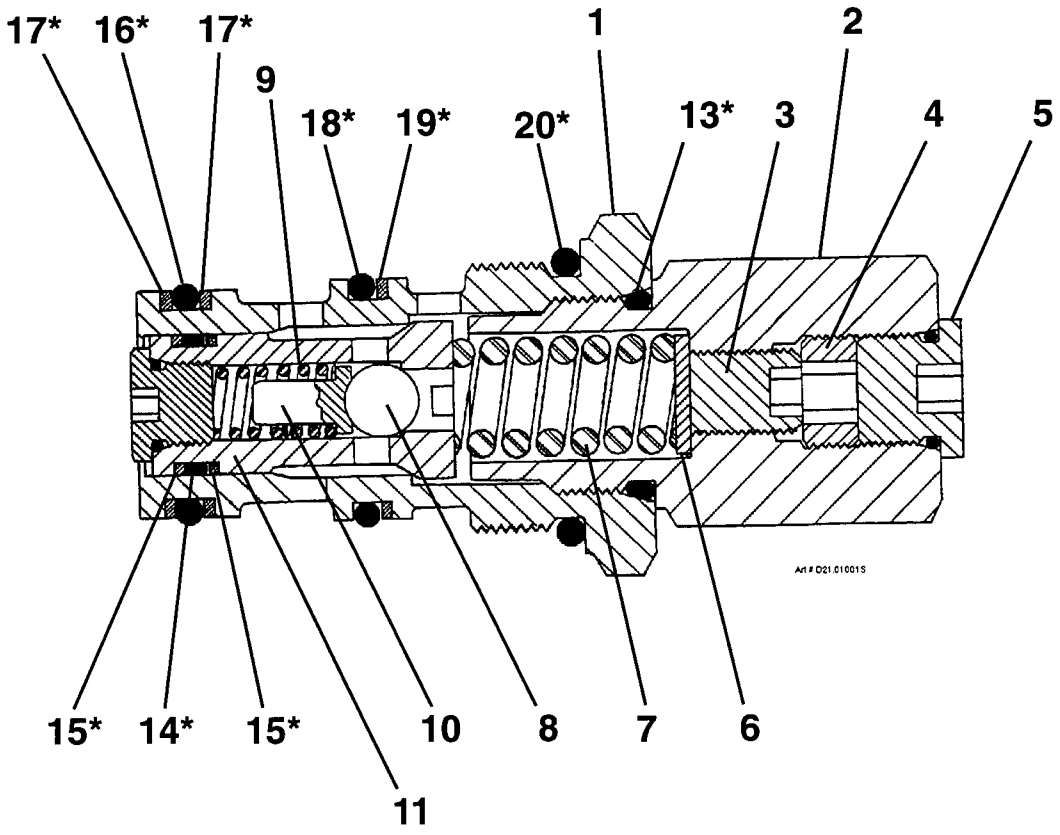


TITLE	SLAVE LEVEL CYLINDER, 7" (17.8 CM) STROKE		
SIMON AERIALS INC. NEW 22 JUN., 1994		PART NO. 04-039000	PLATE NO. D20.201

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

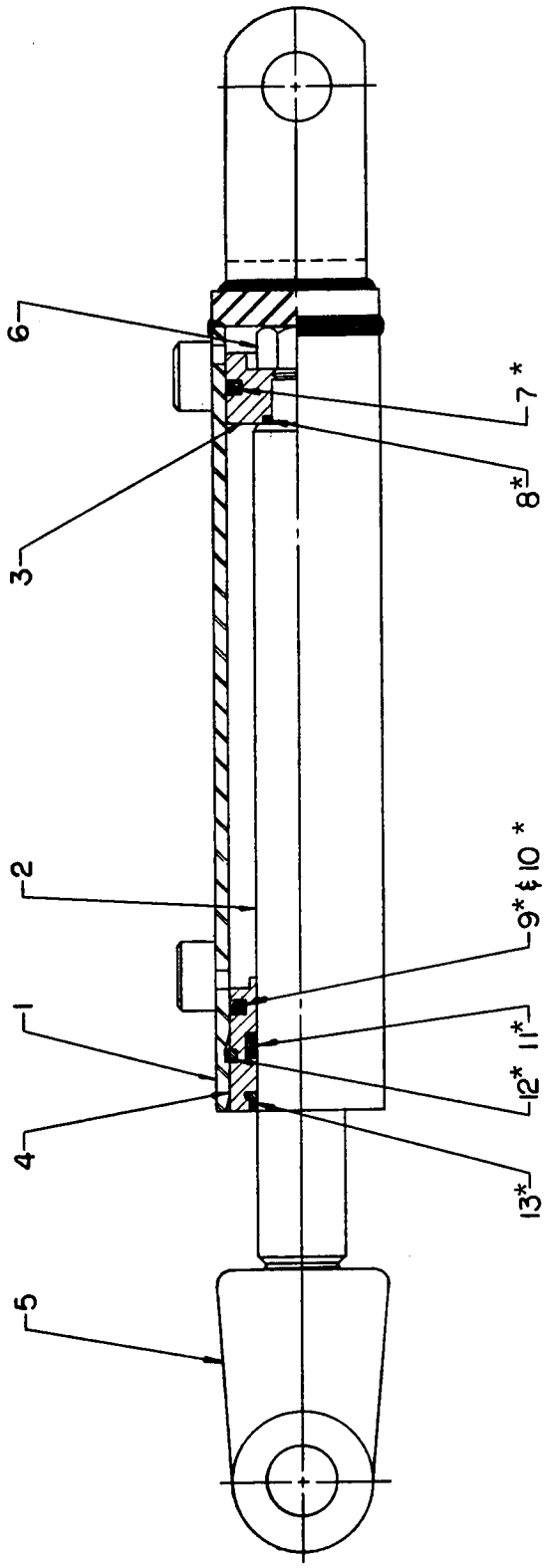


TITLE	HOLDING VALVE, SLAVE LEVELING CYLINDER		
SIMON AERIALS INC. REV. 05/02/91	PART NO. 01-032500	PLATE NO. D21.01	

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			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

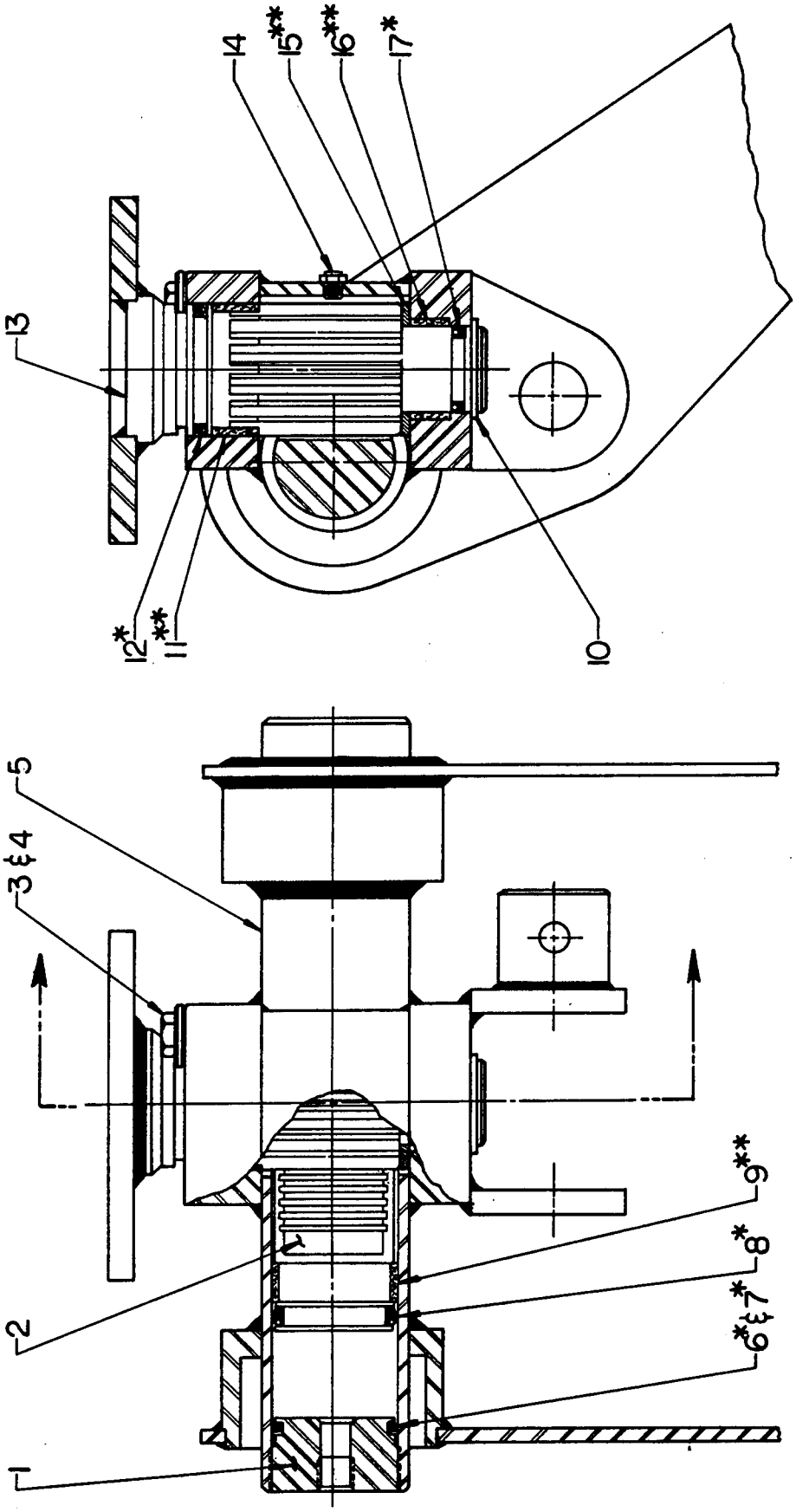
1283 /1178

DESCRIPTION	PART NO.
ROTATE CYLINDER	04-003700

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			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

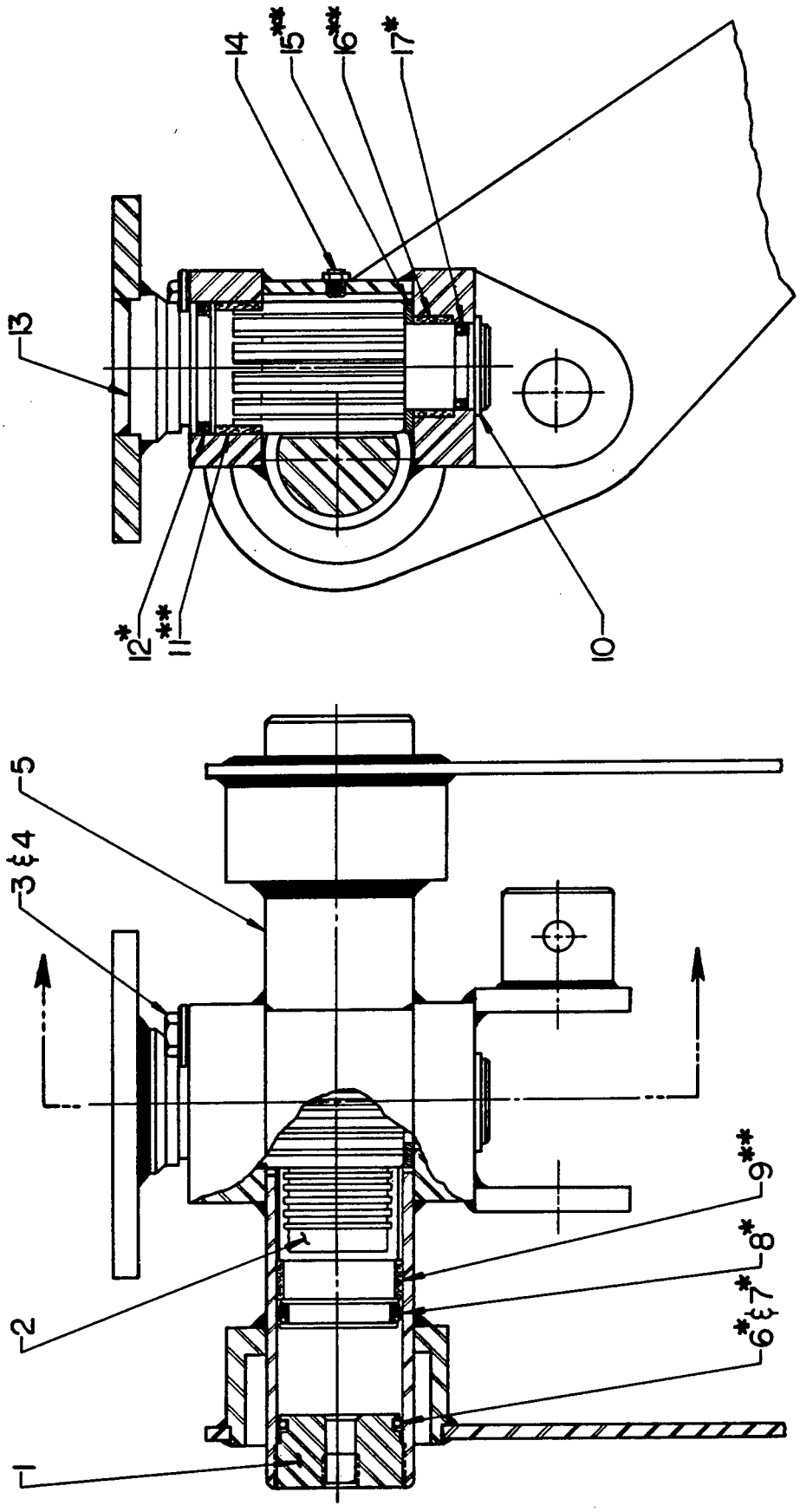
0584/0384

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

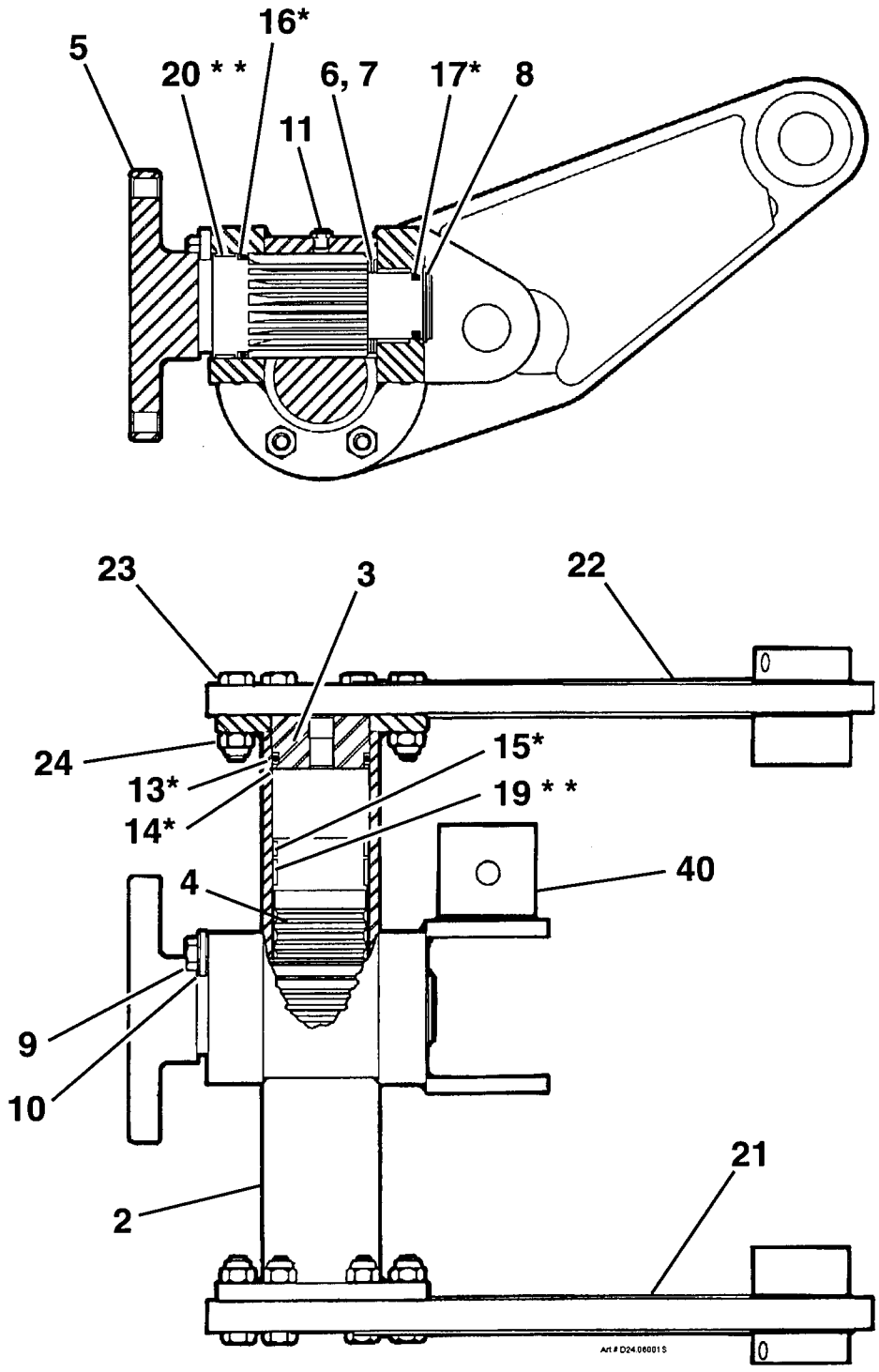
0984/0384

DESCRIPTION	PART NO.
PLATFORM ROTARY ACTUATOR	SDW-207045-4

PARTS LIST

ITEM	PART NO	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.	1
			Note: These seal kits not for water-glycol fluid.	
			Items in seal kit are identified by asterisk (*).	
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.	1
			Note: Items in kit identified by double asterisk (* *).	
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



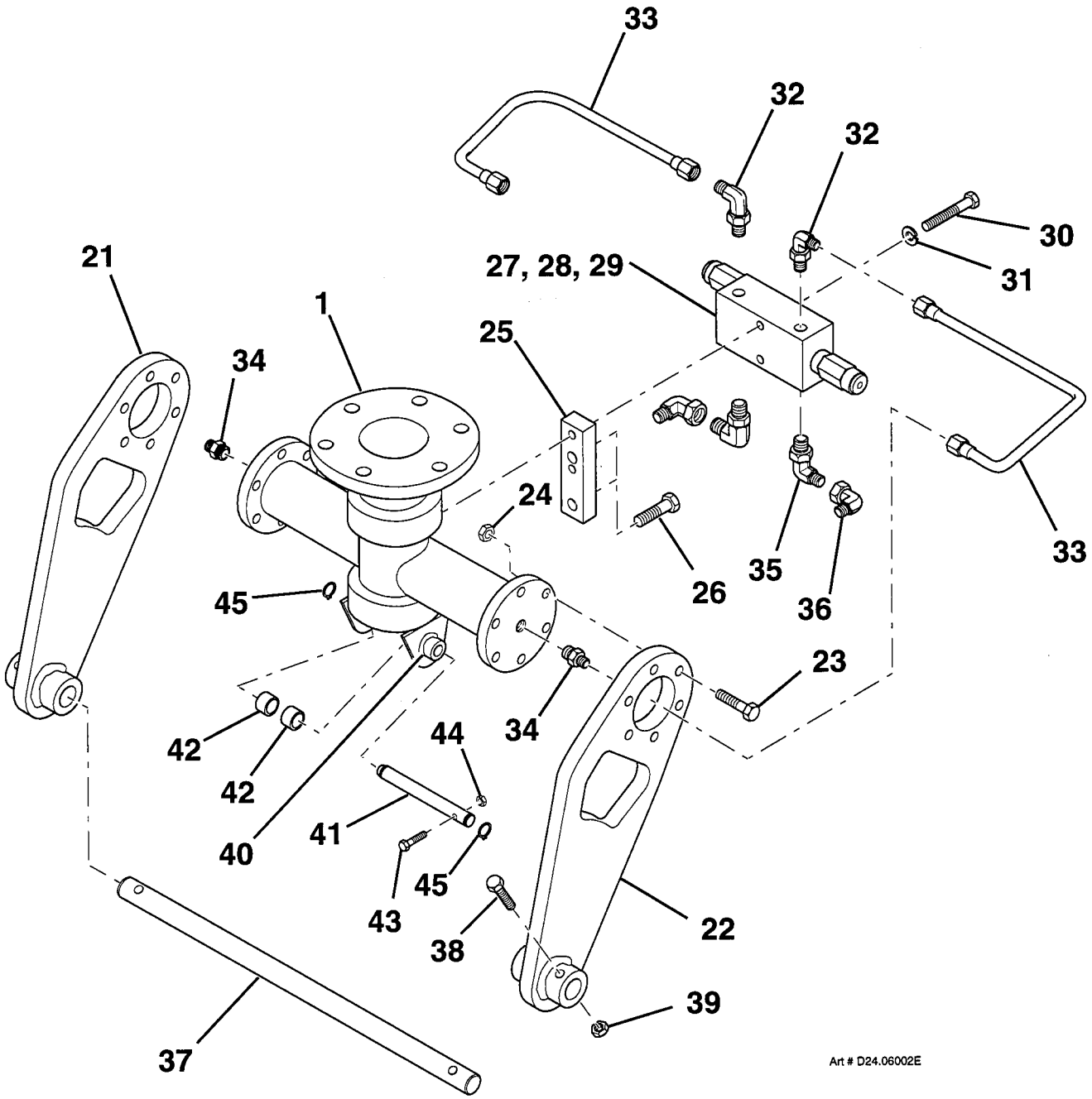
TITLE	PLATFORM ROTARY ACTUATOR (PLATE 1 OF 3)		
SIMON AERIALS INC.	REV. 22 NOV., 1994 THIS SHEET ONLY	PART NO. 02-010600	PLATE NO. D24.06

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.			REV.	PART NO.	
D24.06	**SIMON AERIALS INC.**	REV. 02 MAY, 1994		02-010600	

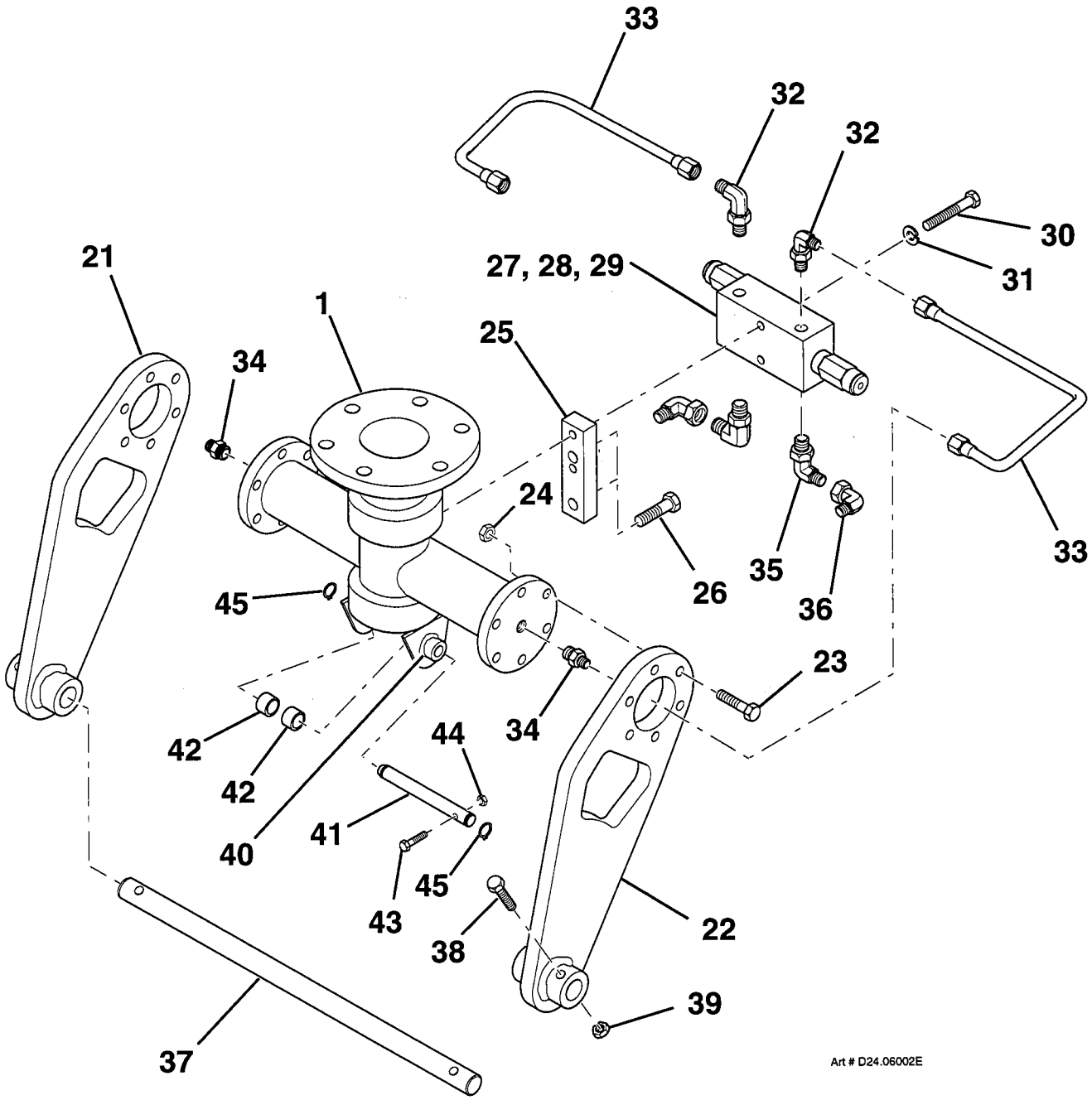


TITLE	PLATFORM ROTARY ACTUATOR (PLATE 2 OF 3)		
SIMON AERIALS INC. REV. 02 MAY, 1994	PART NO. 02-010600	PLATE NO. D24.06	

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



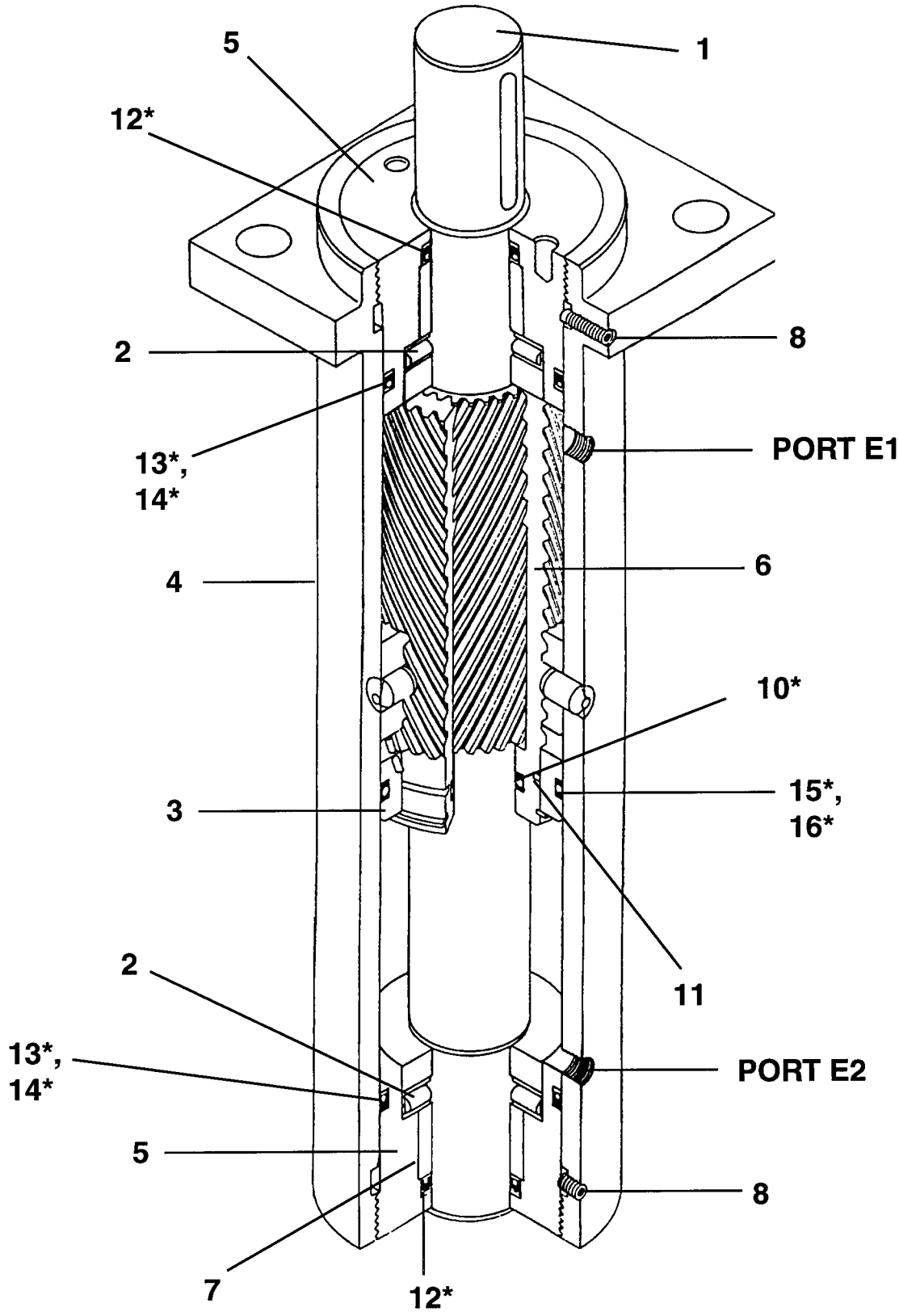
TITLE	PLATFORM ROTARY ACTUATOR (PLATE 3 OF 3)		
SIMON AERIALS INC. REV. 02 MAY, 1994	PART NO. 02-010600	PLATE NO. D24.06	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			SHAFT	1
2			BEARING, NEEDLE THRUST	4
3			PISTON	1
4			HOUSING	1
5			CAP, END	2
6			SLEEVE, PISTON	1
7			BEARING, JOURNAL	2
8			SCREW, SET	4
9	02-007301		KIT, SEAL	1
10			SEAL, ROD	2
11			SEAL, STATIC PISTON	1
12			SEAL, SHAFT	2
13			SEAL, END CAP	2
14			BACK-UP RING, END CAP	2
15			SEAL, PISTON	1
16			BACK-UP RING, PISTON	2

TITLE ROTARY ACTUATOR

PLATE NO. D24.09 | **SIMON AERIALS INC.** | REV. 10/07/91 | PART NO. 02-007300

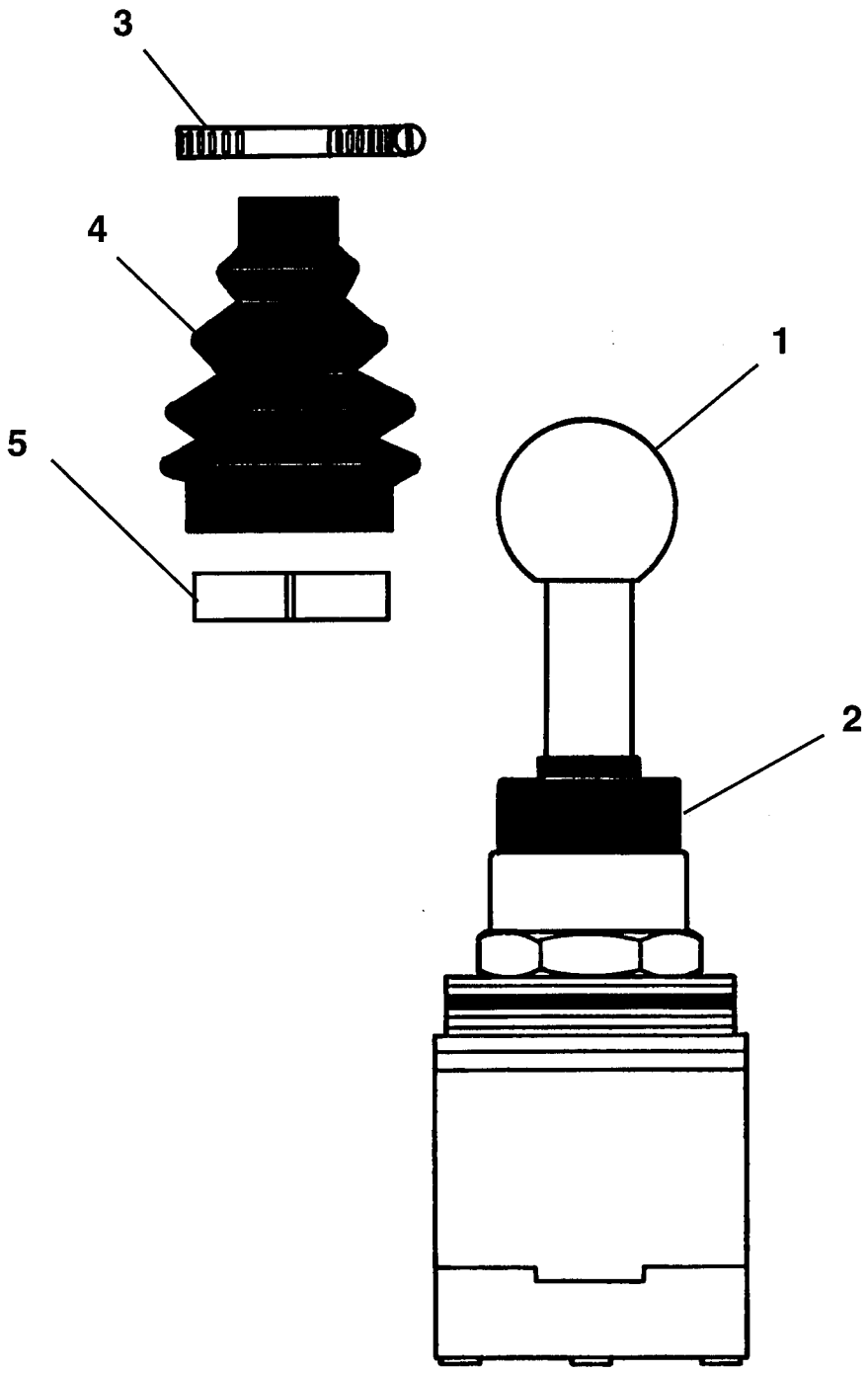


TITLE	ROTARY ACTUATOR		
SIMON AERIALS INC.	REV. 10/07/91	PART NO. 02-007300	PLATE NO. D24.09

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

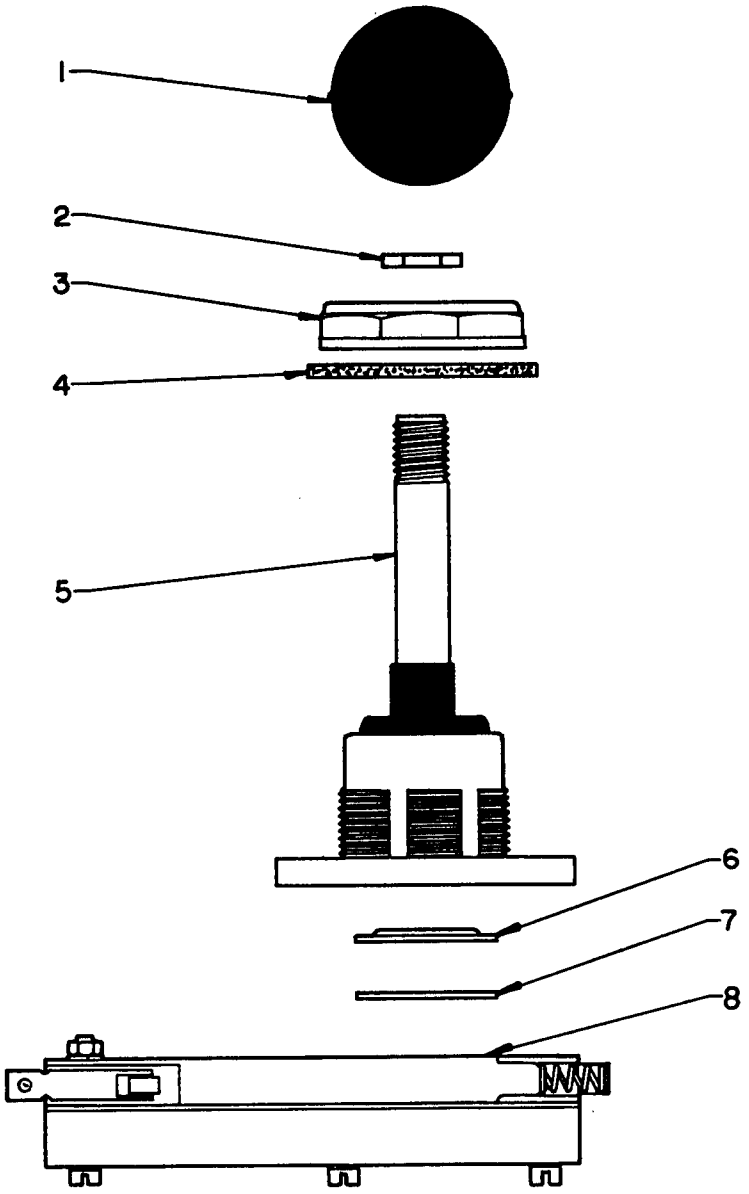


TITLE	JOYSTICK CONTROLLER (5 POSITION)		
SIMON AERIALS INC. REV. 08/08/91	PART NO. 03-021800	PLATE NO. E01.03	

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

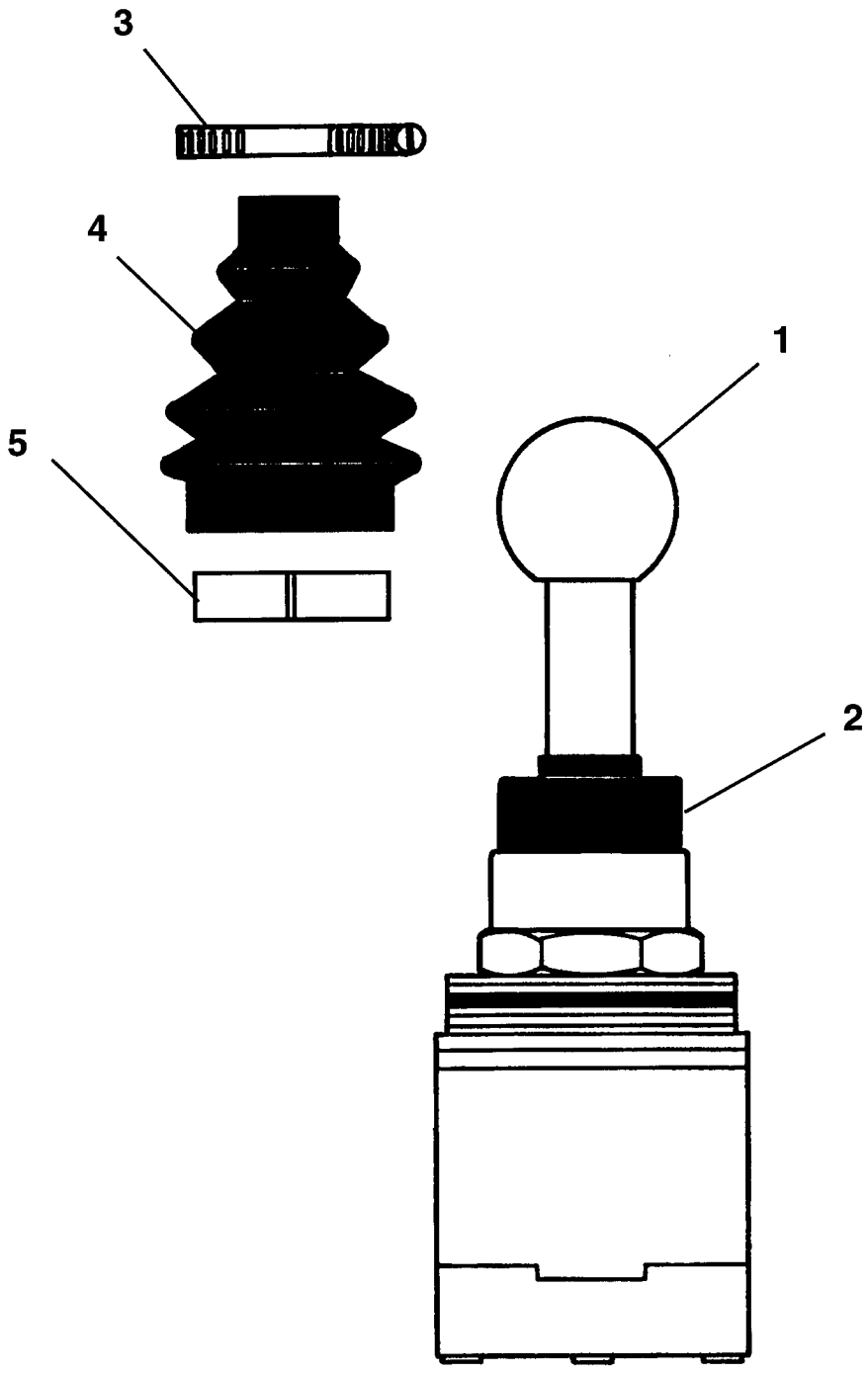
DESCRIPTION	PART NO.
JOYSTICK (8 POSITION)	03-061600

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

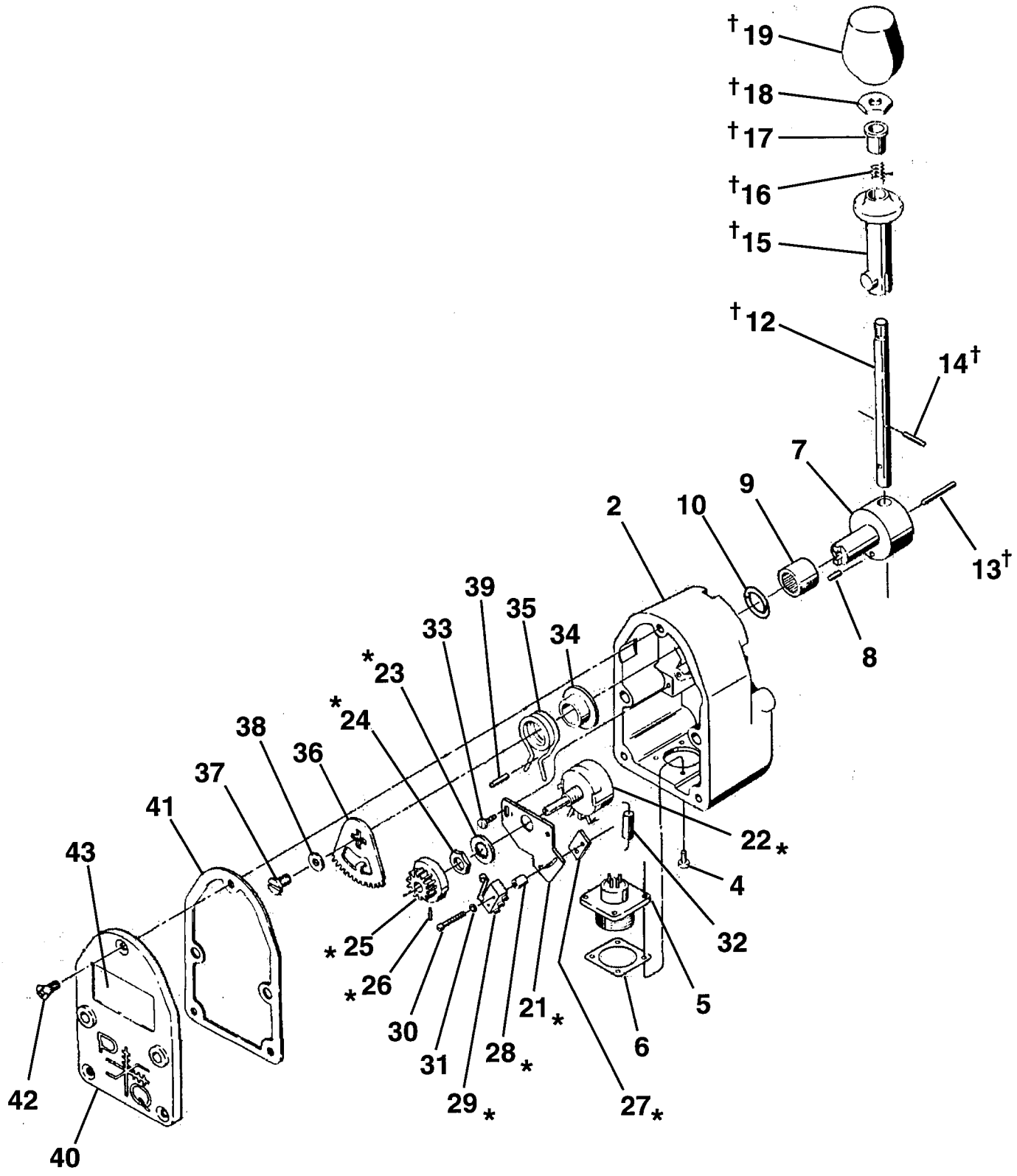


TITLE	JOYSTICK CONTROLLER (3 POSITION)		
SIMON AERIALS INC. REV. 08/08/91	PART NO. 03-021900	PLATE NO. E01.05	

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.



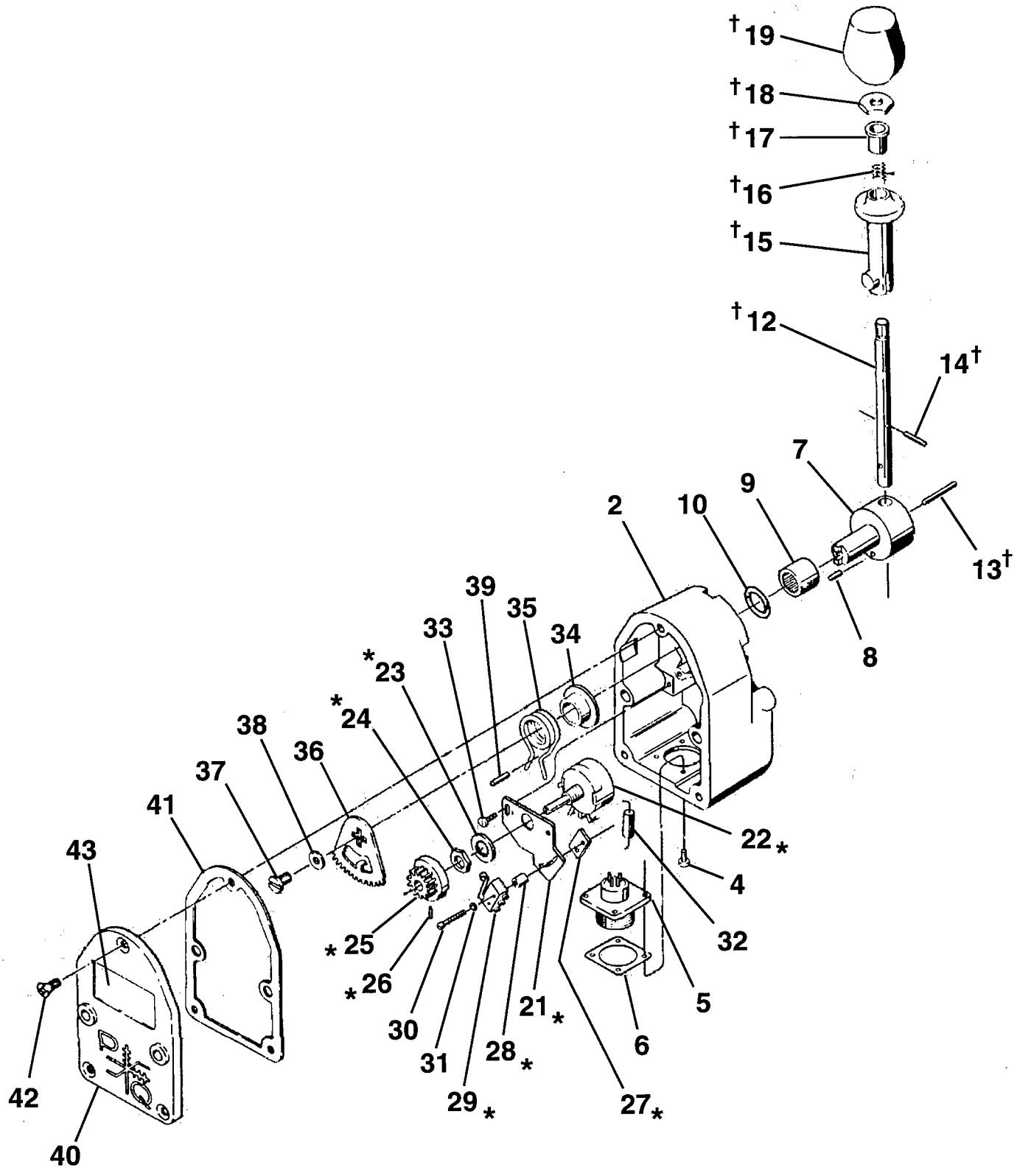
0485 / 0385

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.



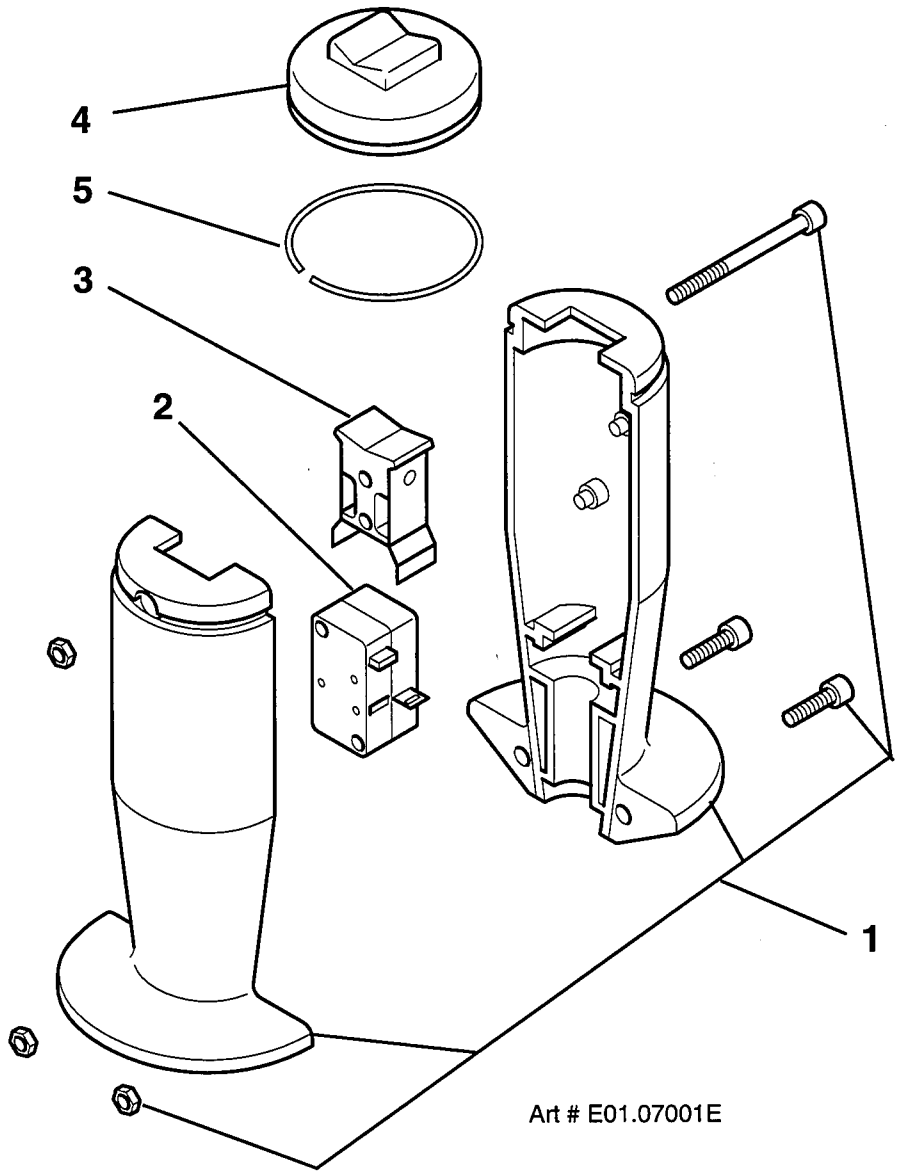
0485 / 0385

TITLE	JOYSTICK CONTROLLER (PLATE 2 OF 2)		
SIMON AERIALS INC. REV. 26 APR., 1993		PART NO.	PLATE NO. E01.06

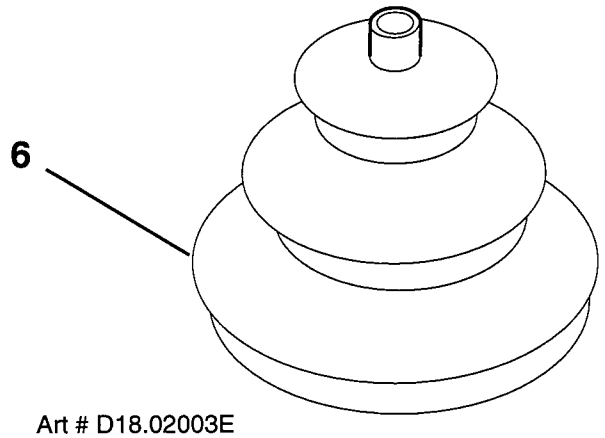
PARTS LIST

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



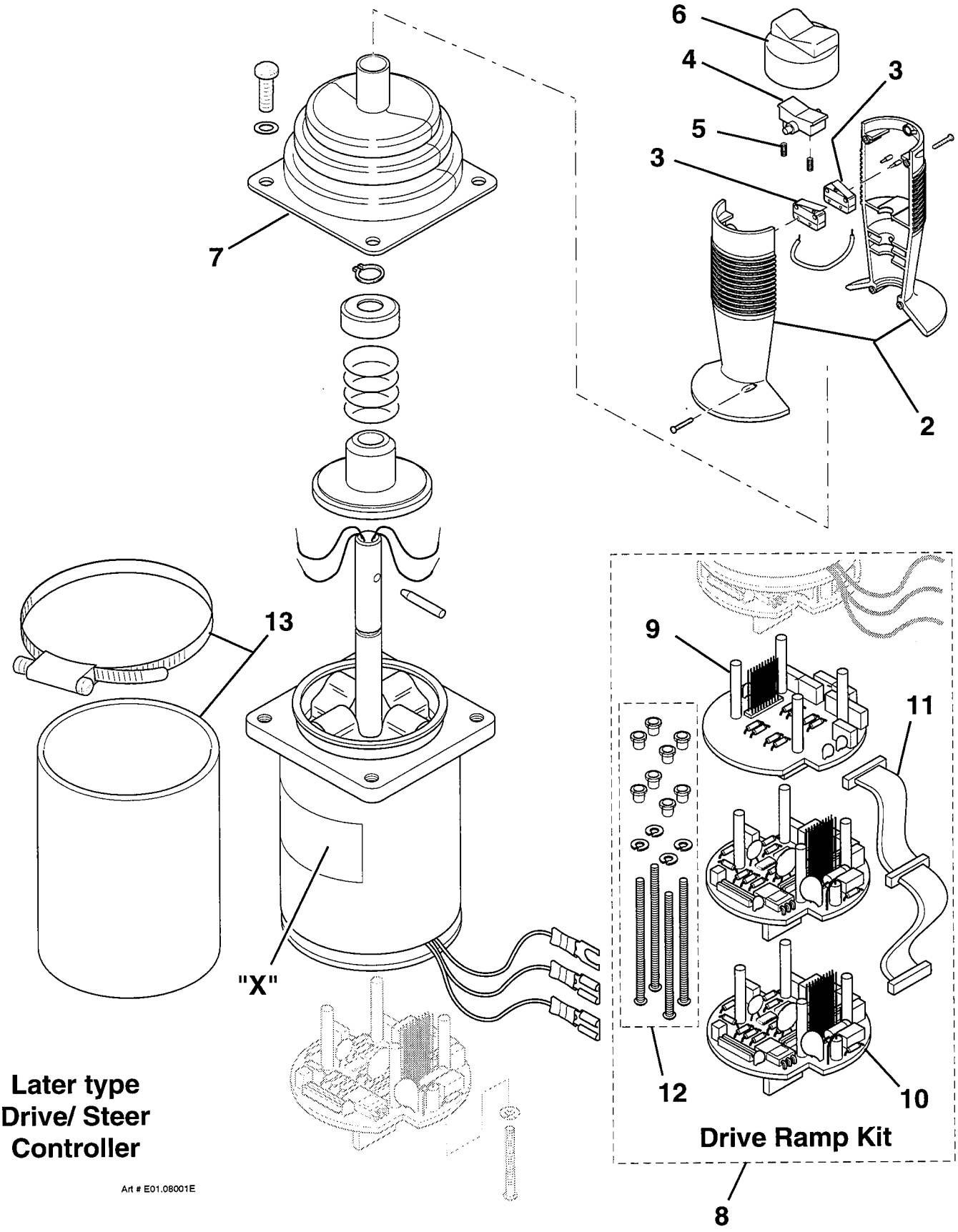
Art # D18.02003E

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

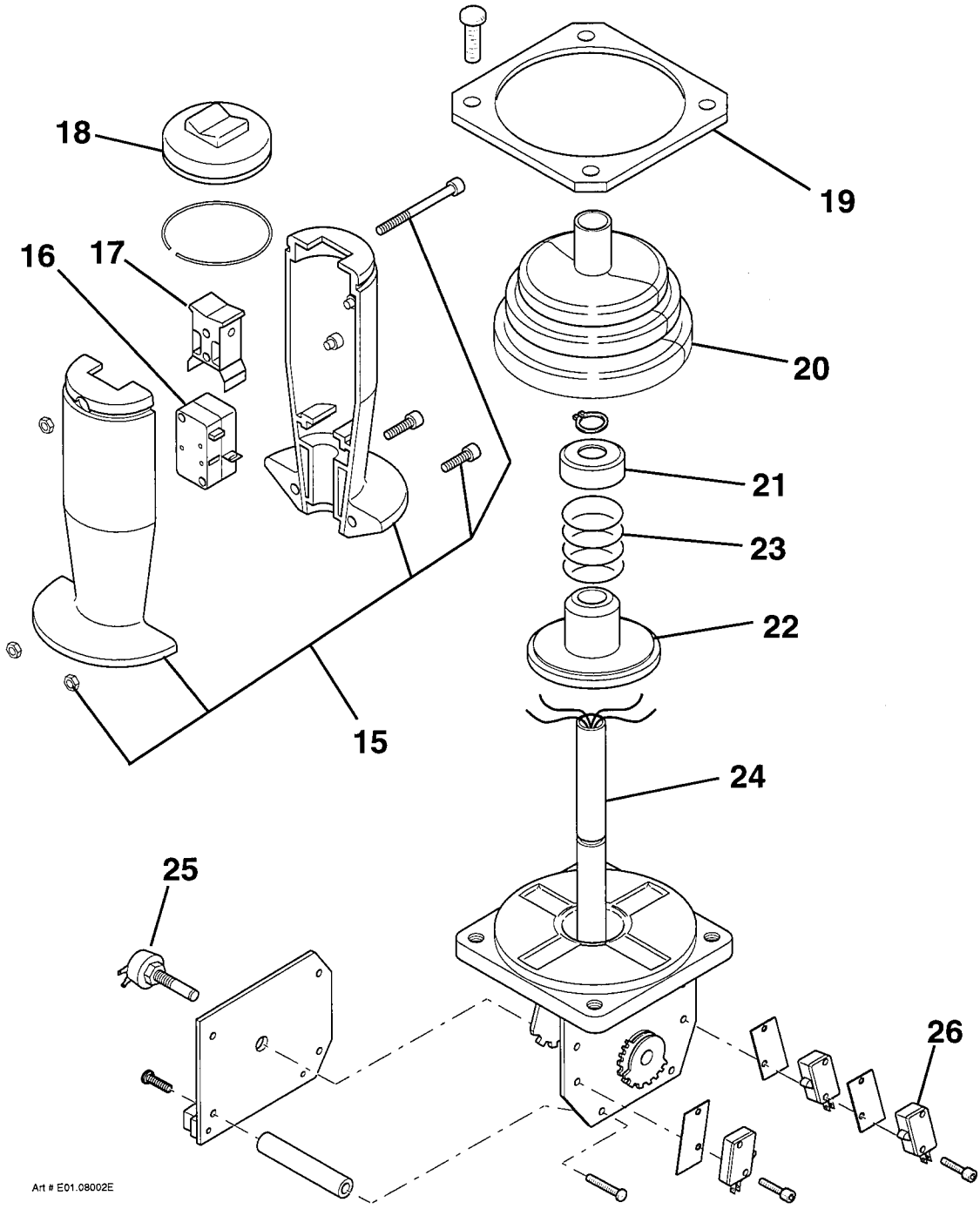
TITLE DRIVE/ STEER CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

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

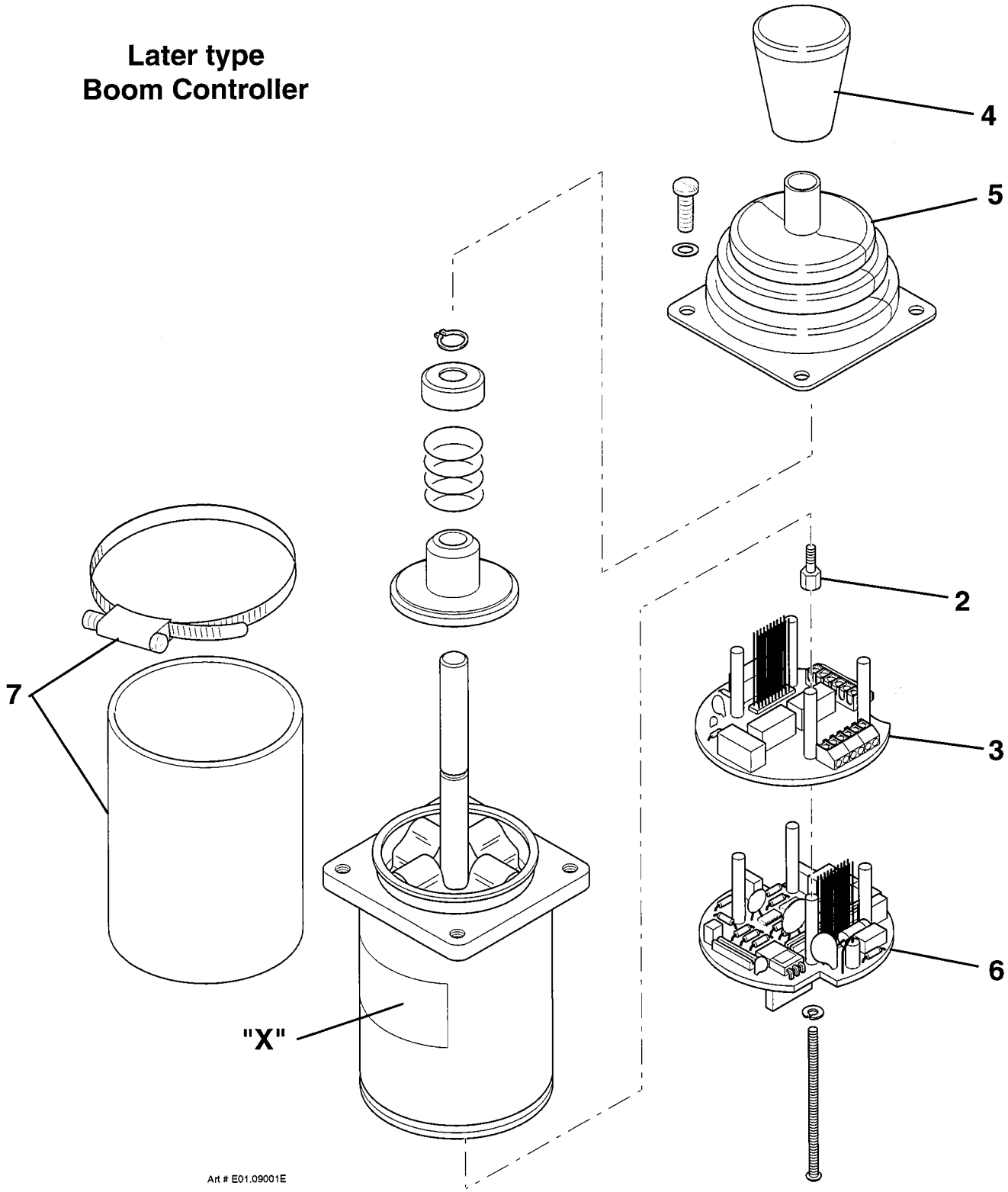
SIMON AERIALS INC. REV. 01 FEB., 1996	PART NO.	PLATE NO. E01.08

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



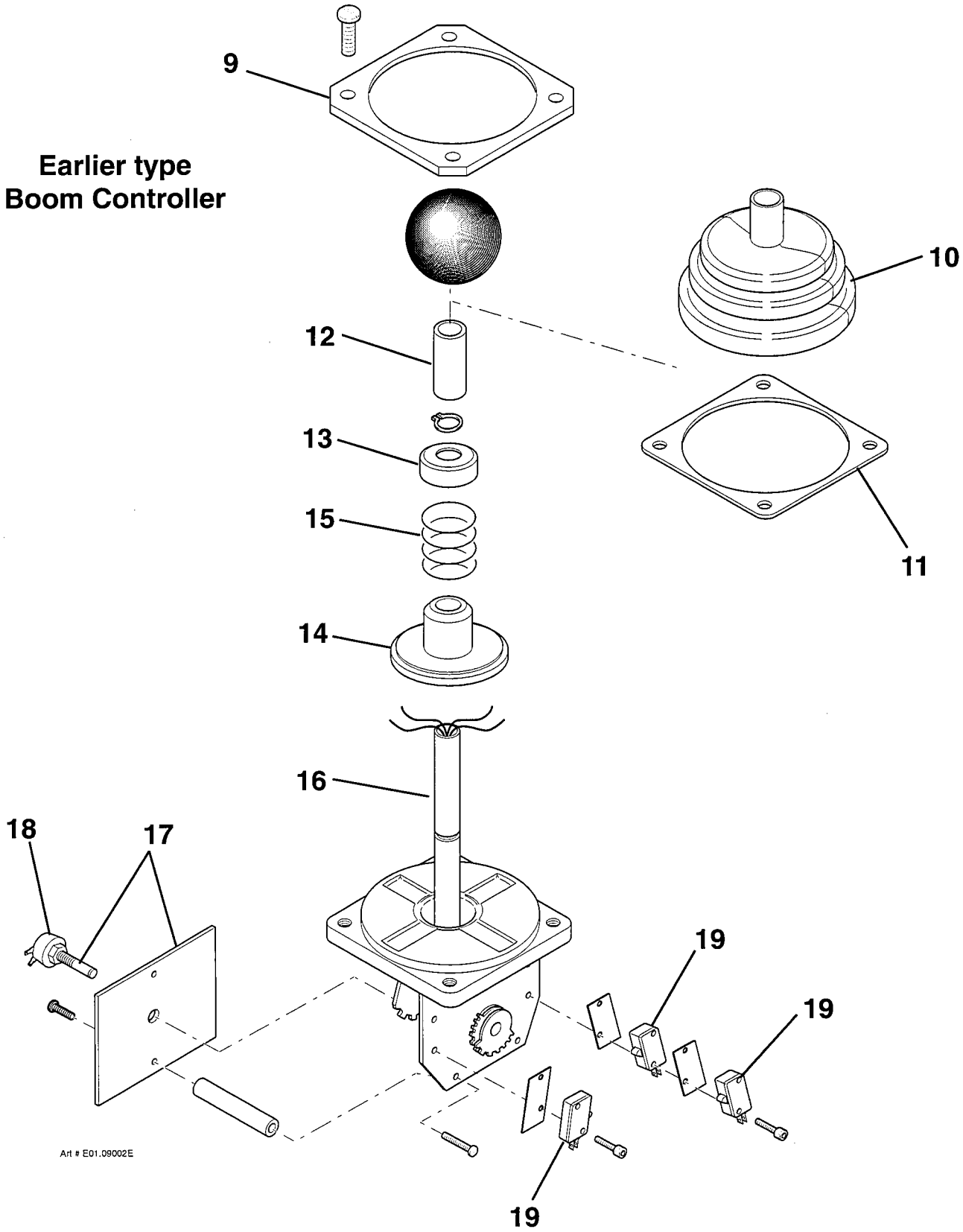
TITLE	BOOM CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2		
SIMON AERIALS INC.	REV. 01 FEB., 1996	PART NO.	PLATE NO. E01.09

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

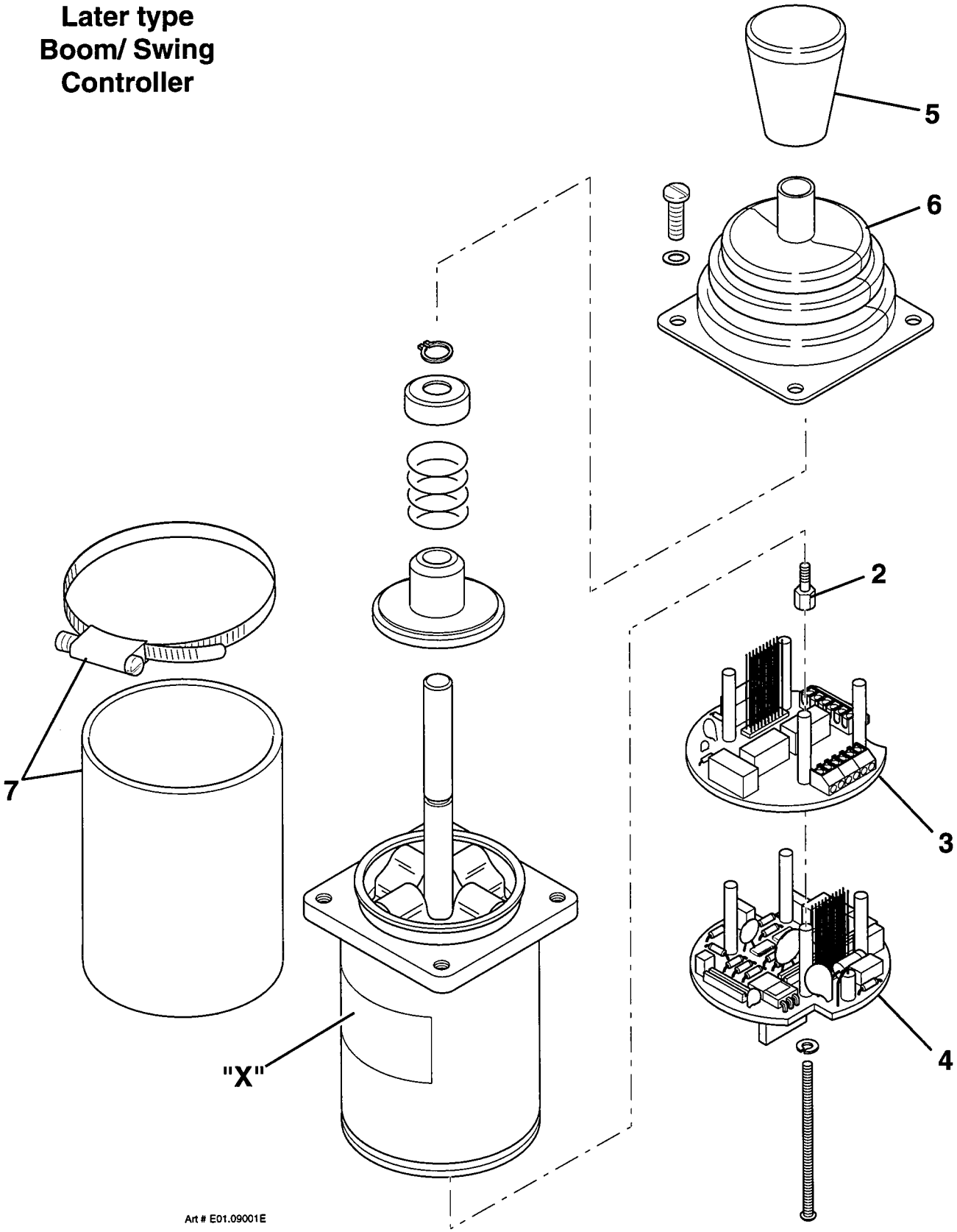
PARTS LIST

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

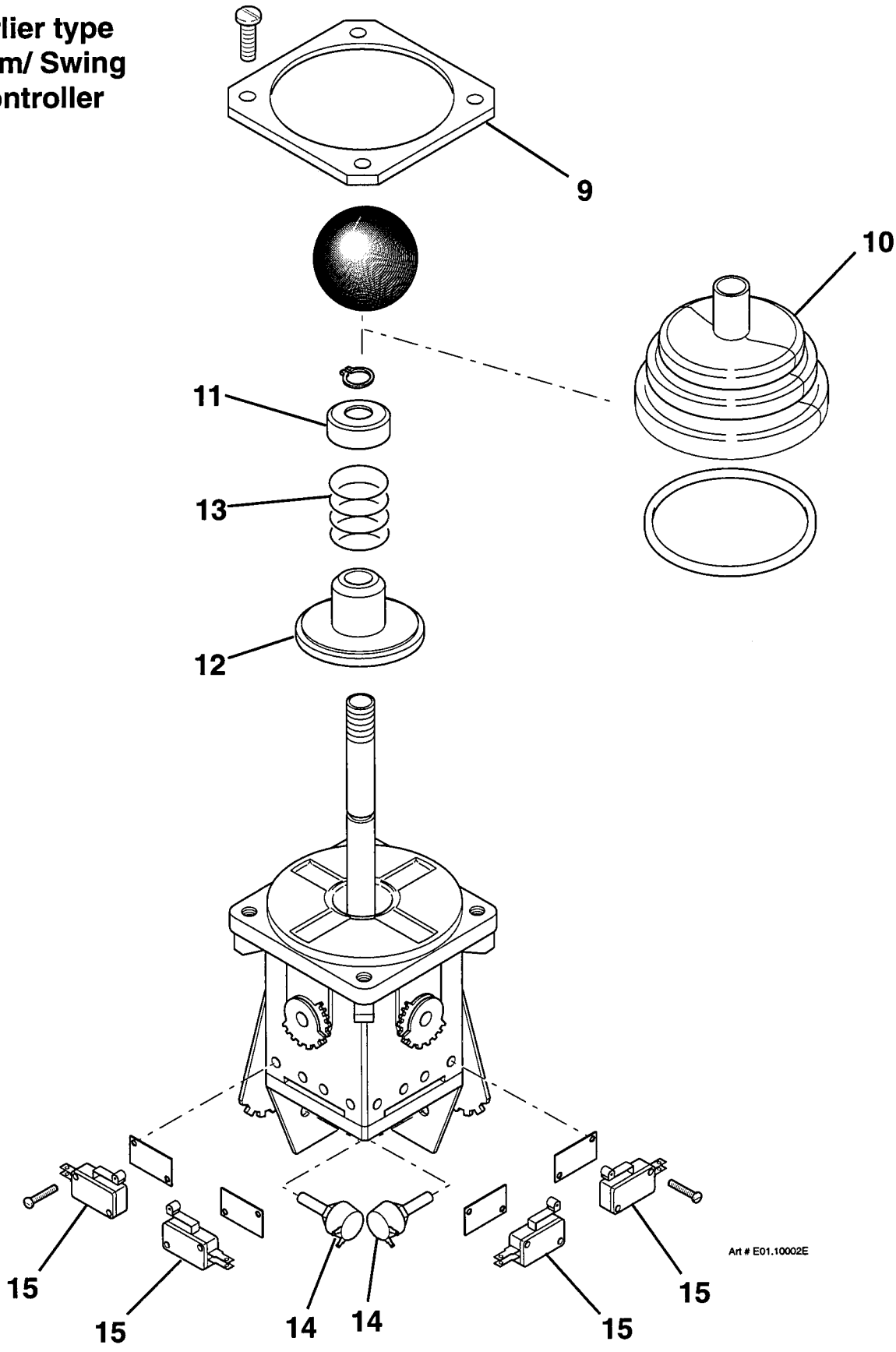
SIMON AERIALS INC. REV. 07 NOV., 1994	PART NO.	PLATE NO. E01.10

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

Earlier type Boom/ Swing Controller



TITLE BOOM/ SWING CONTROLLER, MP ELECTRO-PROPORTIONAL, TYPE 2

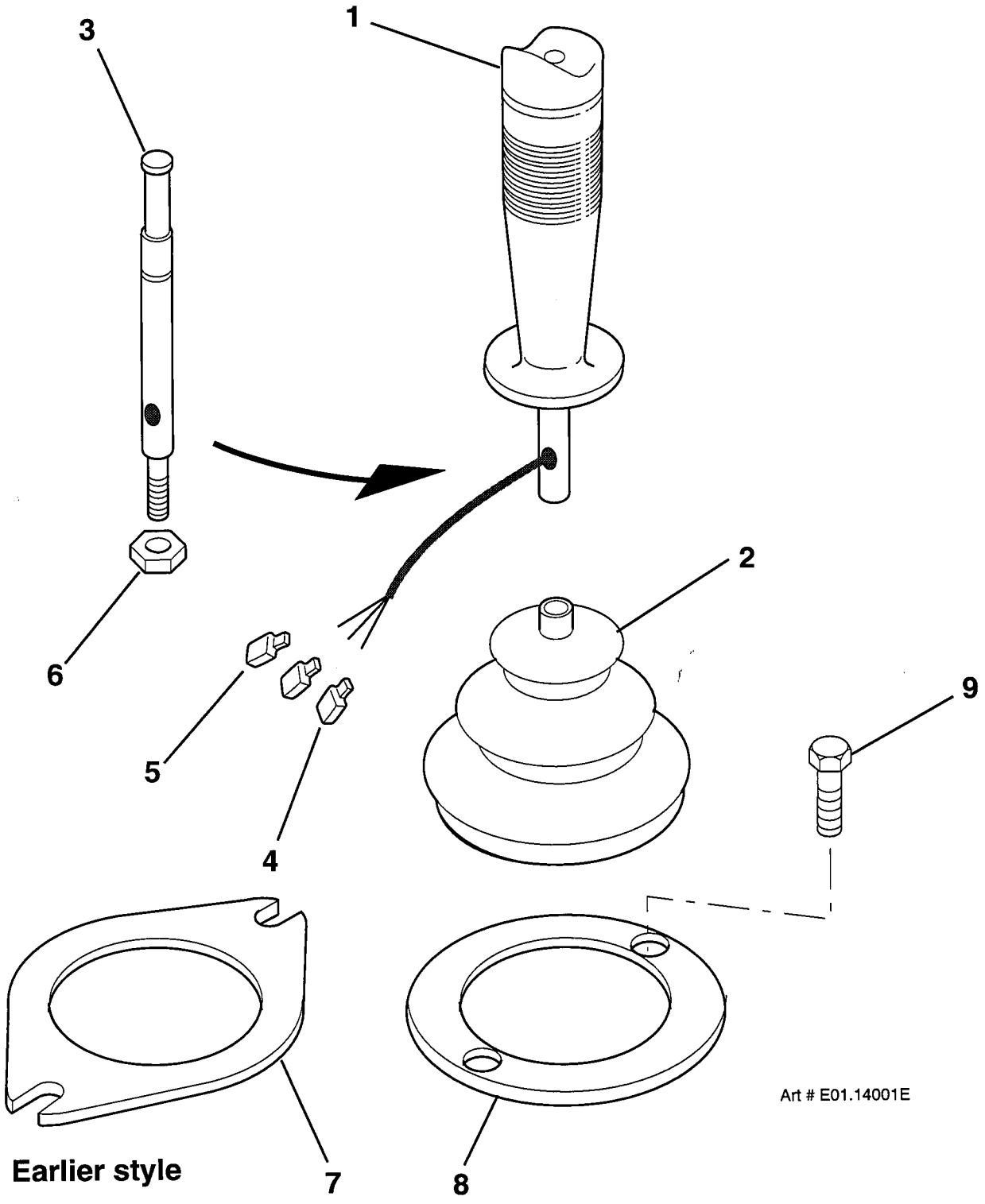
SIMON AERIALS INC. REV. 07 NOV., 1994	PART NO.	PLATE NO. E01.10

PARTS LIST

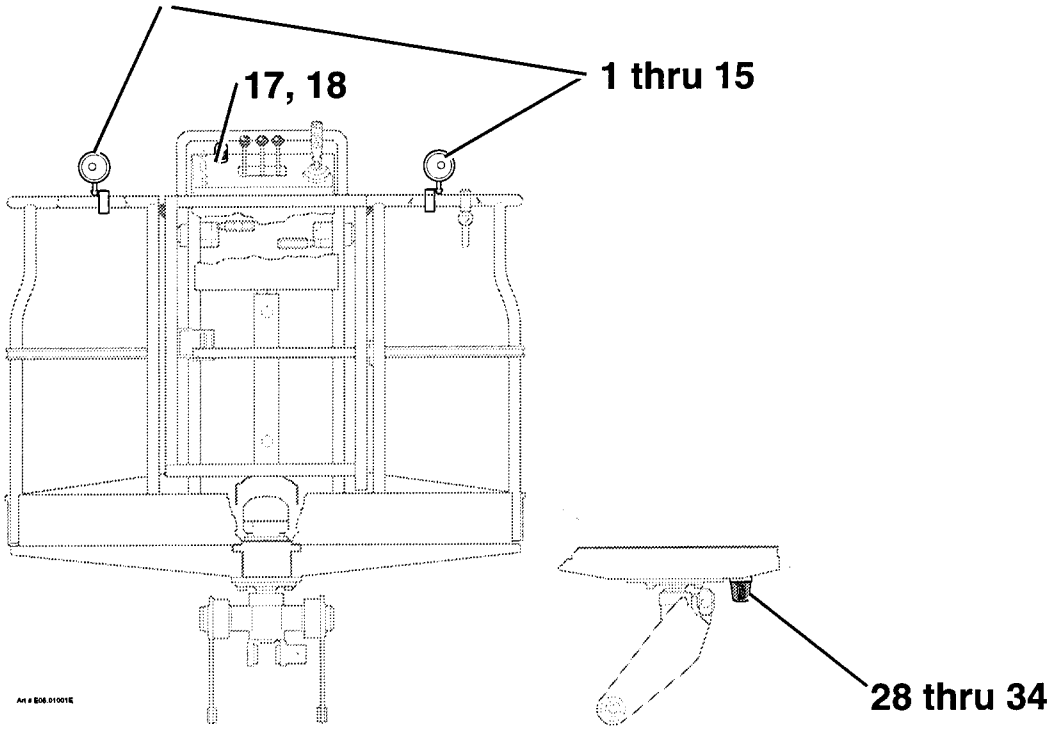
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	03-492700		HANDLE ASSEMBLY, DRIVE CONTROL (with boot) (Must be modified for this application. Discard shaft that comes with handle, and replace with Item 3.)	1
2			BOOT, DRIVE HANDLE (Not available separately. Comes only with handle)	1
3	2199980		SHAFT, DRIVE 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

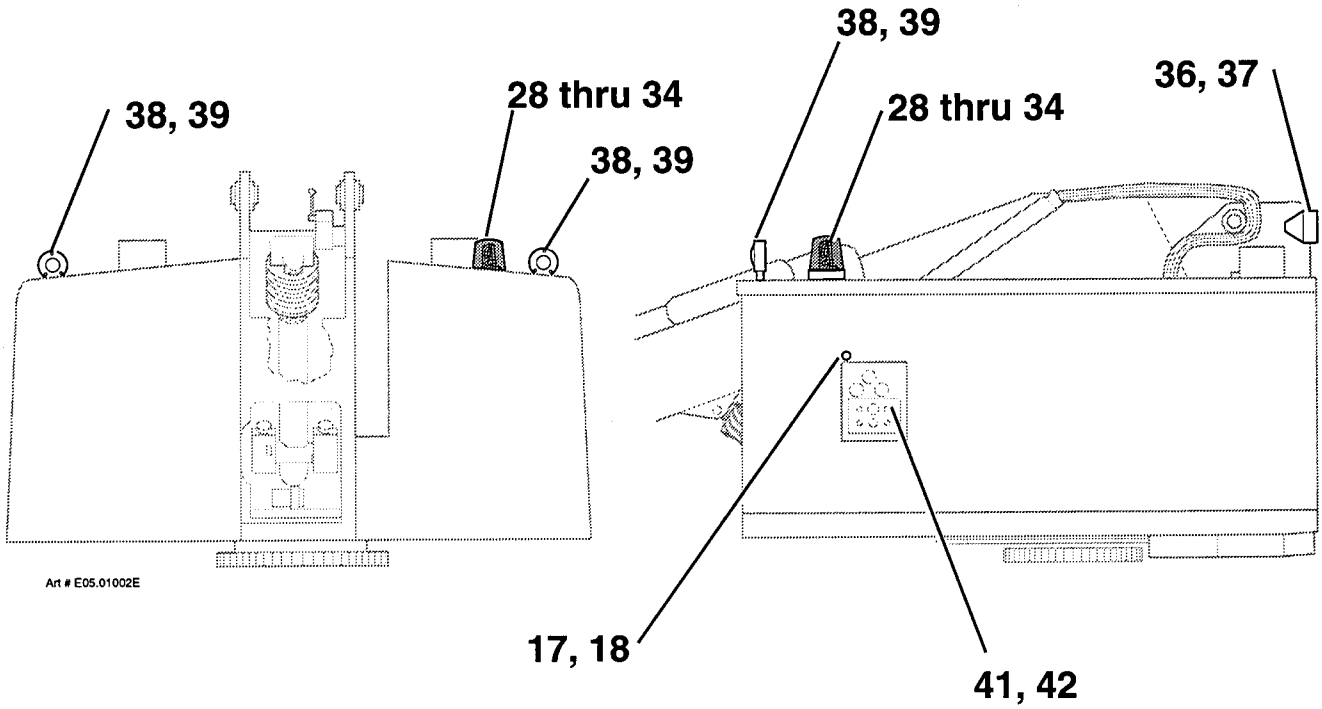
TITLE DRIVE CONTROL HANDLE ASSEMBLY

PLATE NO.			PART NO.
E01.14	**SIMON AERIALS INC.**	REV. 01 MAR., 1994	3530010



TITLE	DRIVE CONTROL HANDLE ASSEMBLY		
SIMON AERIALS INC. REV. 01 MAR., 1994		PART NO. 3530010	PLATE NO. E01.14



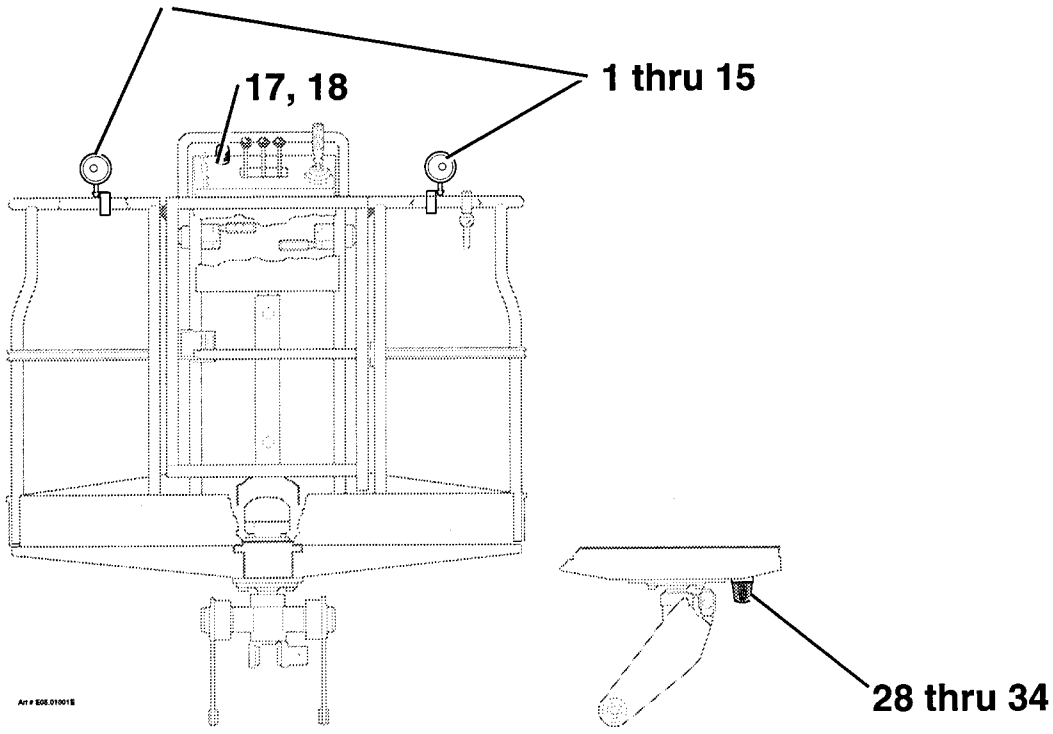


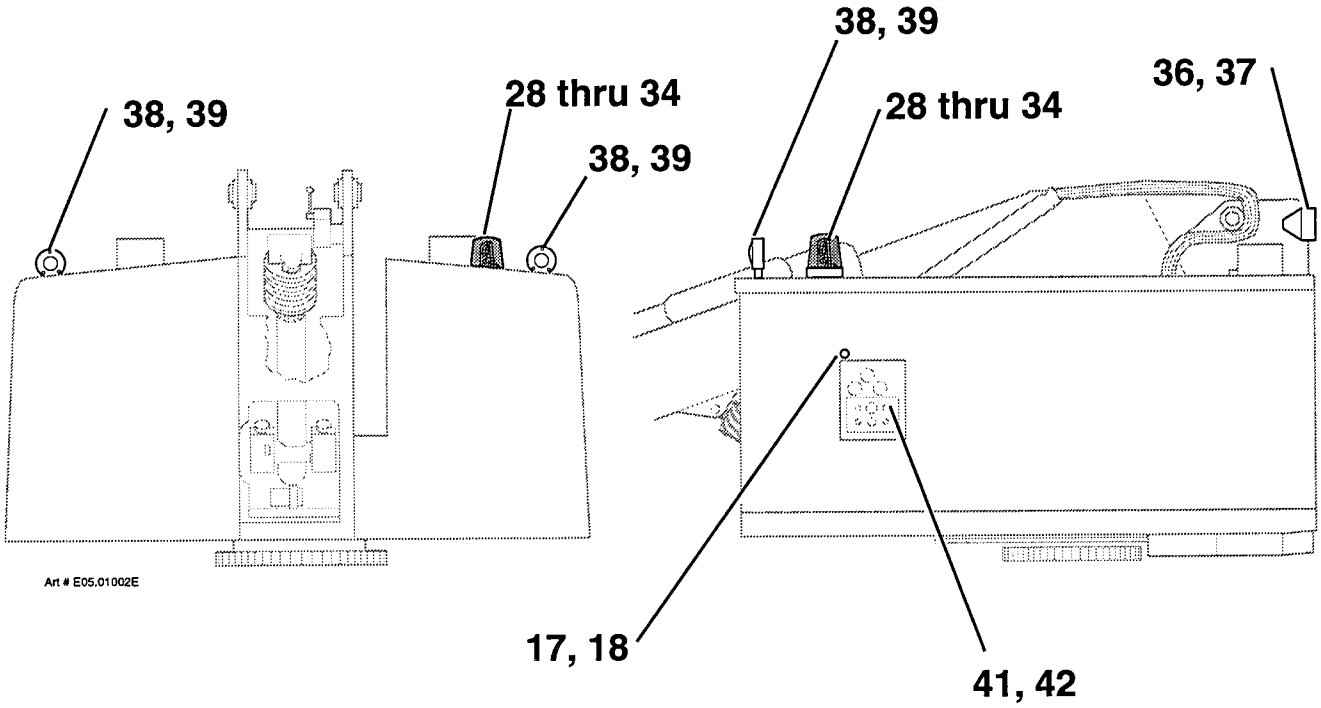
TITLE	OPTIONAL LIGHT PACKAGES (PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 09 NOV., 1994		PART NO.	PLATE NO. E05.01

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.



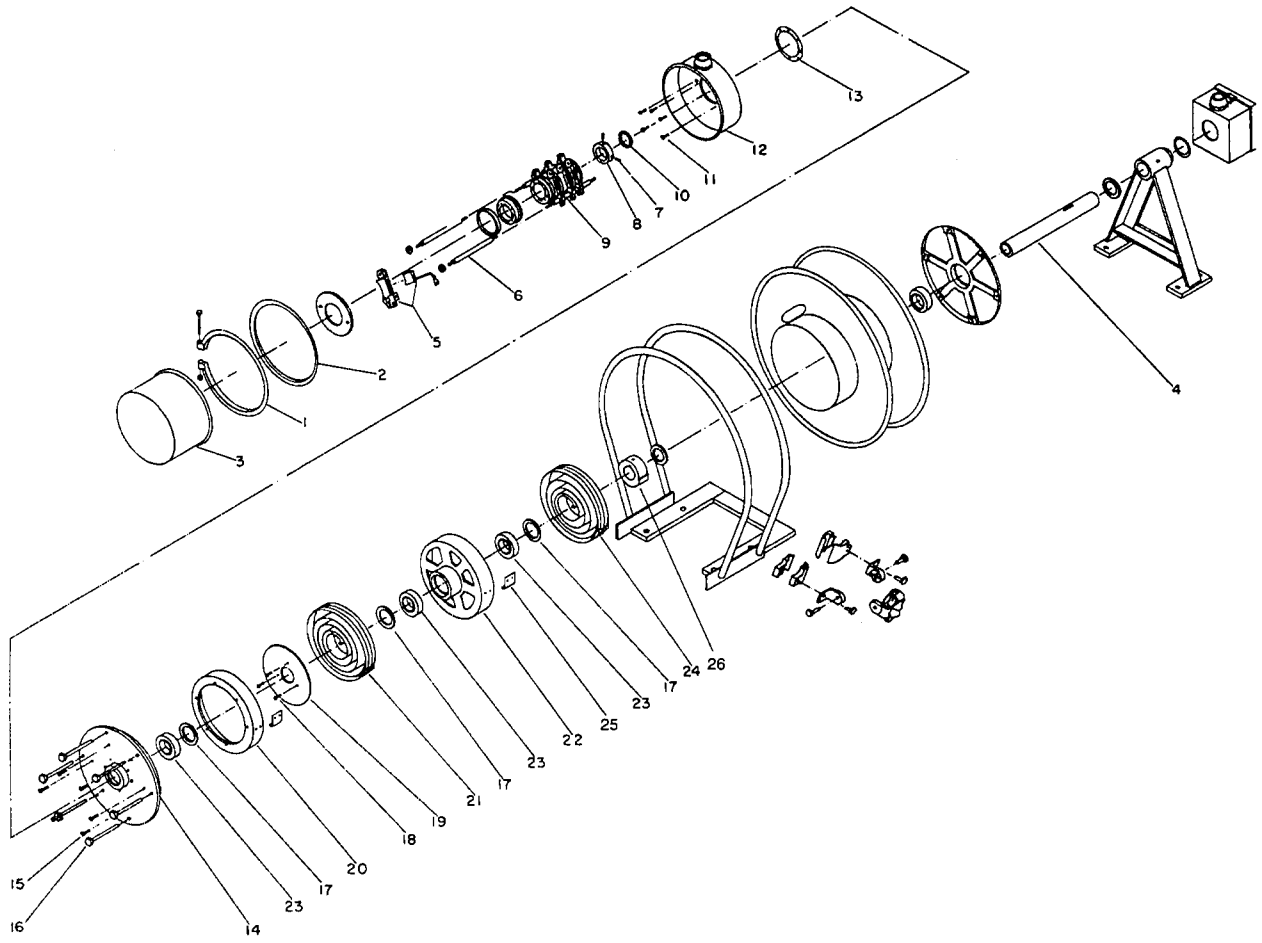


TITLE	OPTIONAL LIGHT PACKAGES (PLATE 2 OF 2)		
SIMON AERIALS INC.	REV. 09 NOV., 1994	PART NO.	PLATE NO. E05.01

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

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

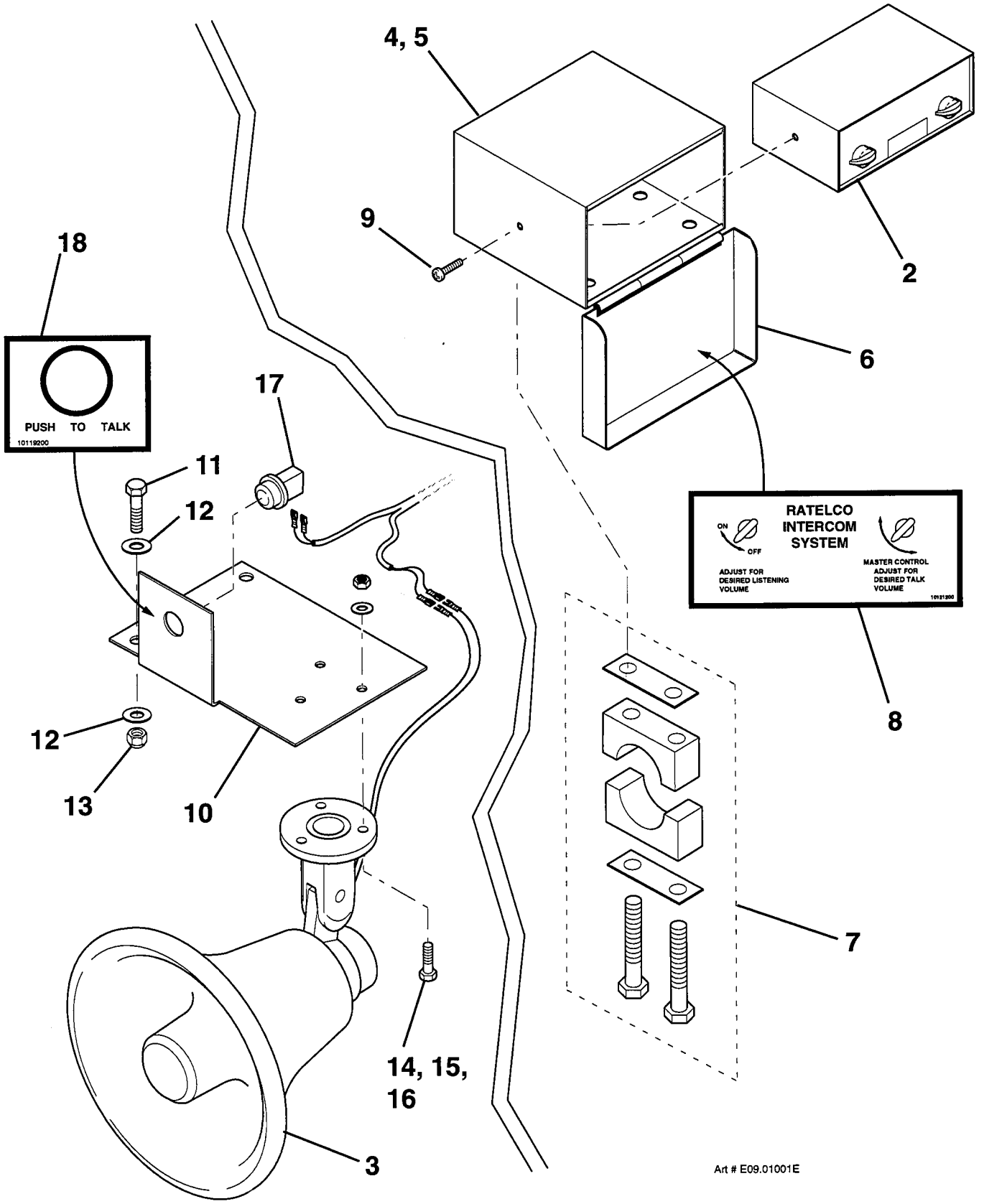
TITLE ALARM PACKAGE ASSEMBLY, MP

PLATE NO. E08.01 | **SIMON AERIALS INC.** NEW 03/11/91 | PART NO. 3505326

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

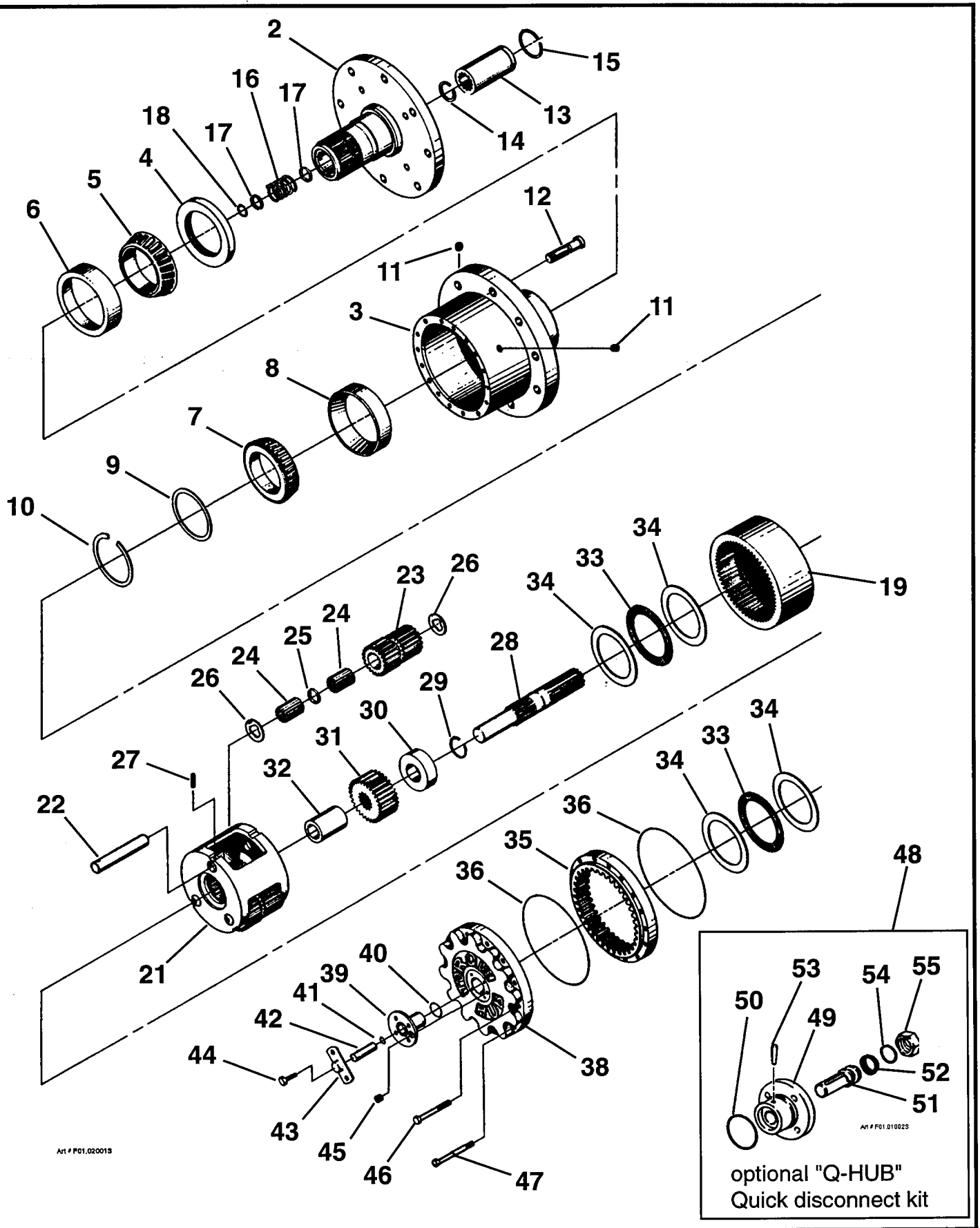
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Note: Identification tag (on item 34) reads "**W3B110343 ZB**" (some earlier versions may read "**W3BM10343**".)	
1			HUB AND SPINDLE ASSEMBLY	1
2	02-000620		SPINDLE	1
3	02-000628		HUB [10 hole, 13-3/16" (335 mm) bolt circle]	1
4	02-000605		SEAL, HUB	1
5	02-000617		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

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



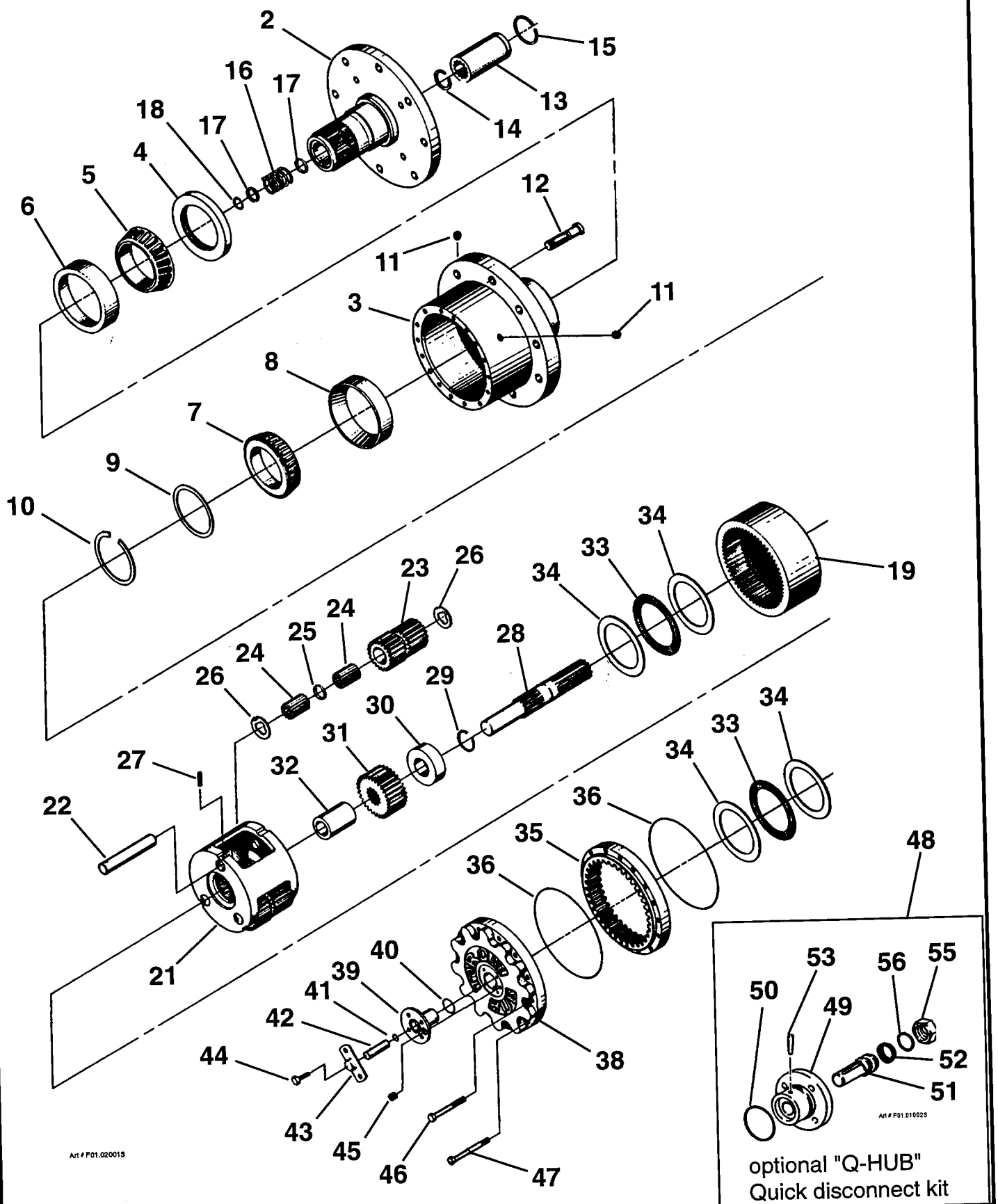
TITLE	TORQUE HUB (43:1) (PLATE 2 OF 2)		
SIMON AERIALS INC. REV.05/16/91	PART NO. 02-000600	PLATE NO. F01.02	

PARTS LIST

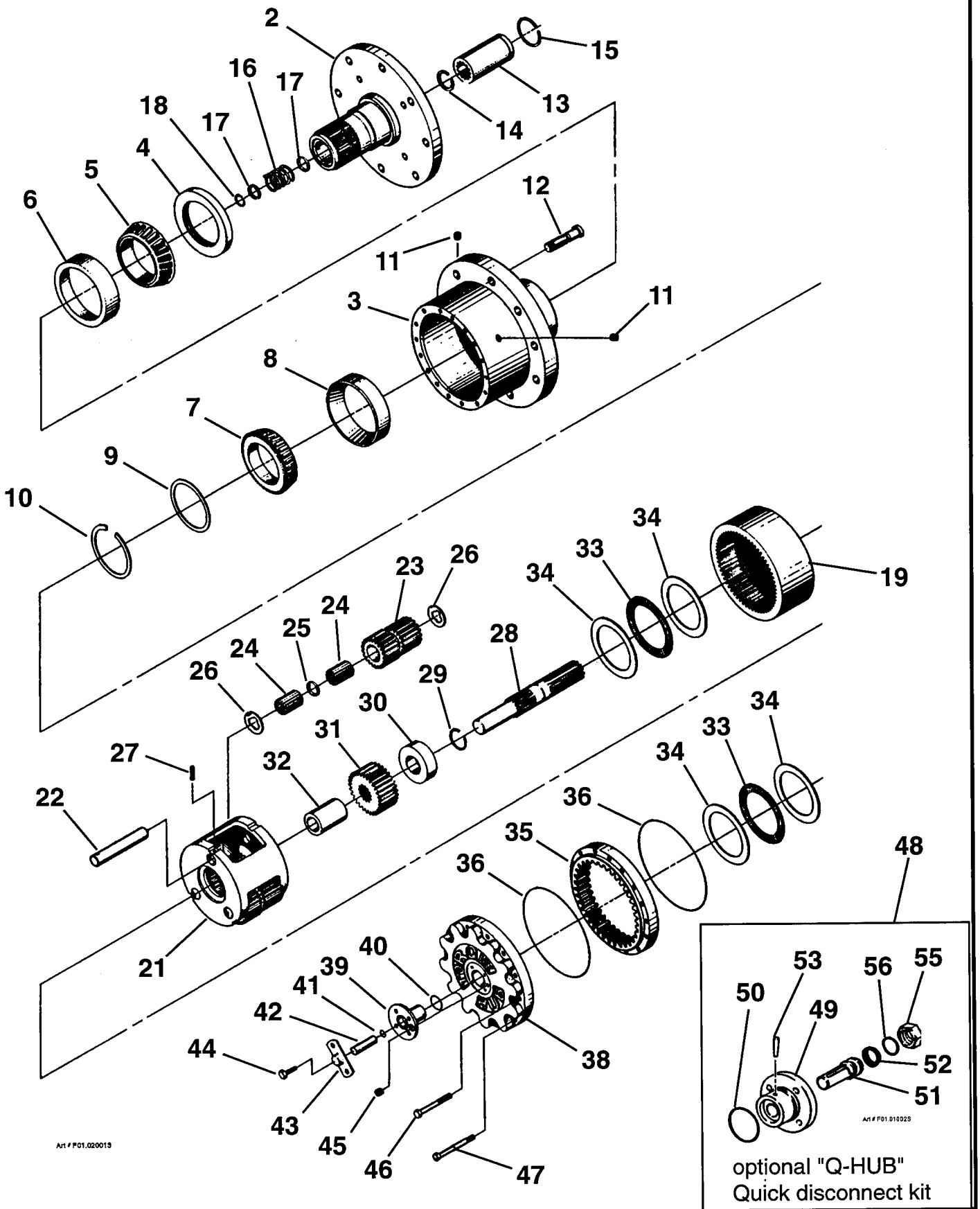
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			Note: Identification tag (on item 34) reads "**W3BX50354 ZB**"	
1			HUB AND SPINDLE ASSEMBLY	1
2	02-010504		SPINDLE	1
3	02-010503		HUB	1
4	02-000605		SEAL, HUB	1
5	02-000617		CONE AND ROLLER, HUB BEARING (inner)	1
6	02-000632		CUP, HUB BEARING (inner)	1
7	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.			PART NO.
F01.07	**SIMON AERIALS INC.**	REV. 07 JUN., 1994	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



TITLE	TORQUE HUB (54:1) (PLATE 2 OF 2)		
SIMON AERIALS INC. REV. 07 JUN., 1994	PART NO. 02-010500	PLATE NO. F01.07	

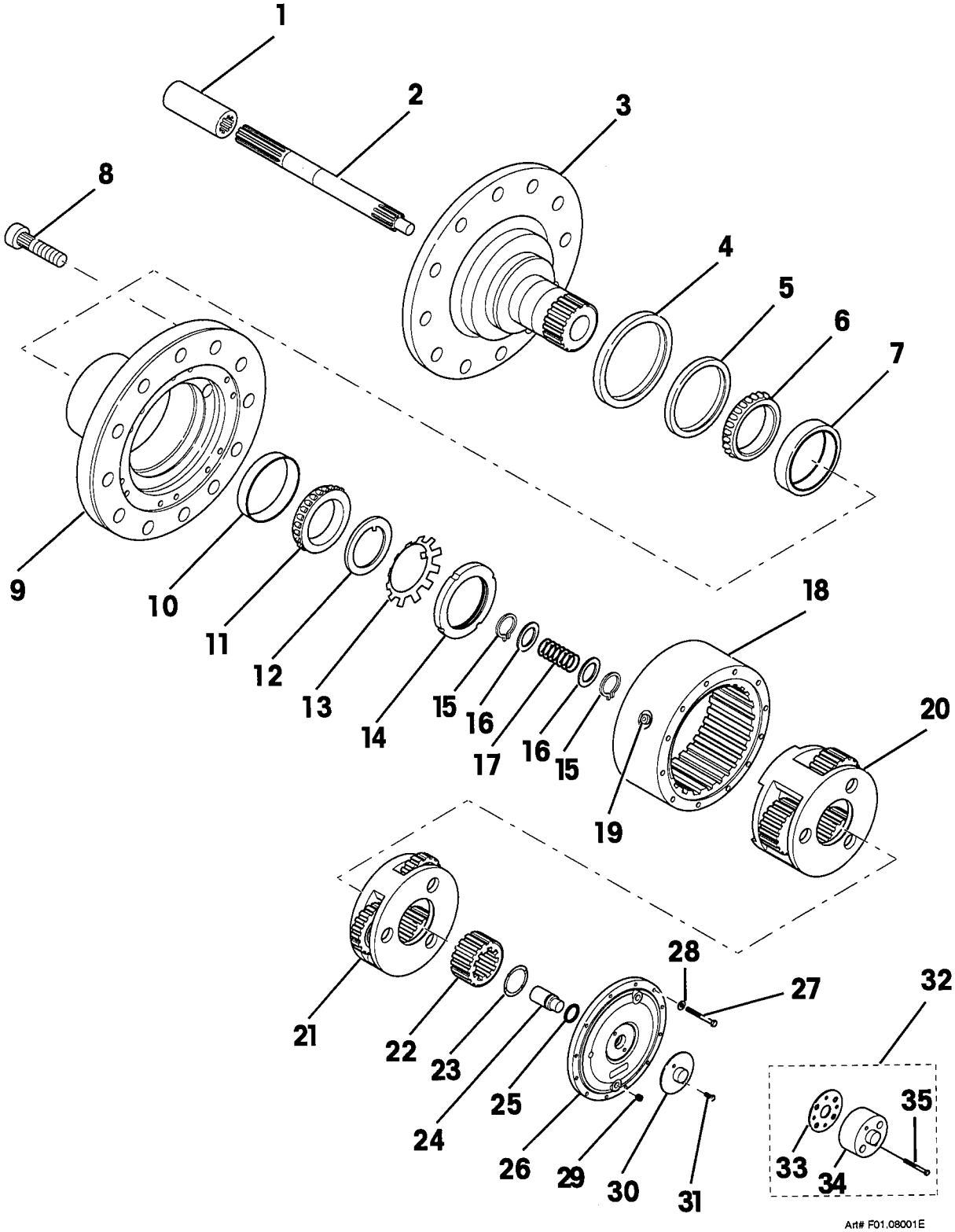
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	02-048502		COUPLING	1
2	02-048503		SHAFT, INPUT	1
3	02-048504		SPINDLE	1
4	02-048505		SEAL, BOOT	1
5	02-048501		SEAL, OIL	1
6	02-048506		CONE AND ROLLER, HUB BEARING (inner)	1
7	02-048507		CUP, HUB BEARING (inner)	1
8	02-048508		BOLT, WHEEL	10
9	02-048509		HUB	1
10	02-048510		CUP, HUB BEARING (outer)	1
11	02-048511		CONE AND ROLLER, HUB BEARING (outer)	1
12	02-048512		WASHER, THRUST	1
13	02-048513		WASHER, LOCK	1
14	02-048514		NUT, BEARING	1
15	02-048515		RING, RETAINING	2
16	02-048516		WASHER	2
17	02-048517		SPRING, DISENGAGE	1
18	02-048518		GEAR, RING	1
19	02-048519		PLUG, MAGNETIC	1
20	02-048520		CARRIER ASSEMBLY, SECONDARY	1
21	02-048521		CARRIER ASSEMBLY, PRIMARY	1
22	02-048522		SUN GEAR, PRIMARY	1
23	02-048523		WASHER, THRUST	1
24	02-048524		PLUNGER, DISENGAGE	1
25	02-048525		O-RING	1
26	02-048526		COVER	1
27	02-048527		BOLT, HEX HEAD (Grade 8)	12
28	02-048528		WASHER, FLAT	12
29	02-048529		PLUG, PIPE	1
30	02-048530		COVER, DISENGAGE	1
31	02-048531		BOLT, HEX HEAD	2
32	02-048532		CAP KIT, COVER (Quick-disconnect, optional)	1
33			GASKET, QUICK DISCONNECT	1
34			ASSEMBLY, QUICK DISCONNECT	1
35			BOLT, HEX HEAD	2
36	02-048533		SEAL KIT	1

TITLE: TORQUE HUB (AUBURN)

SECTION F01. | PLATE NO. 08 | PAGE 01 | REV. - | DATED 30 OCT. 1996 | PART NO. 02-048500

Simon Aerials Inc.
10600 West Brown Deer Road
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Fax 414-355-3172



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TITLE: TORQUE HUB (AUBURN)

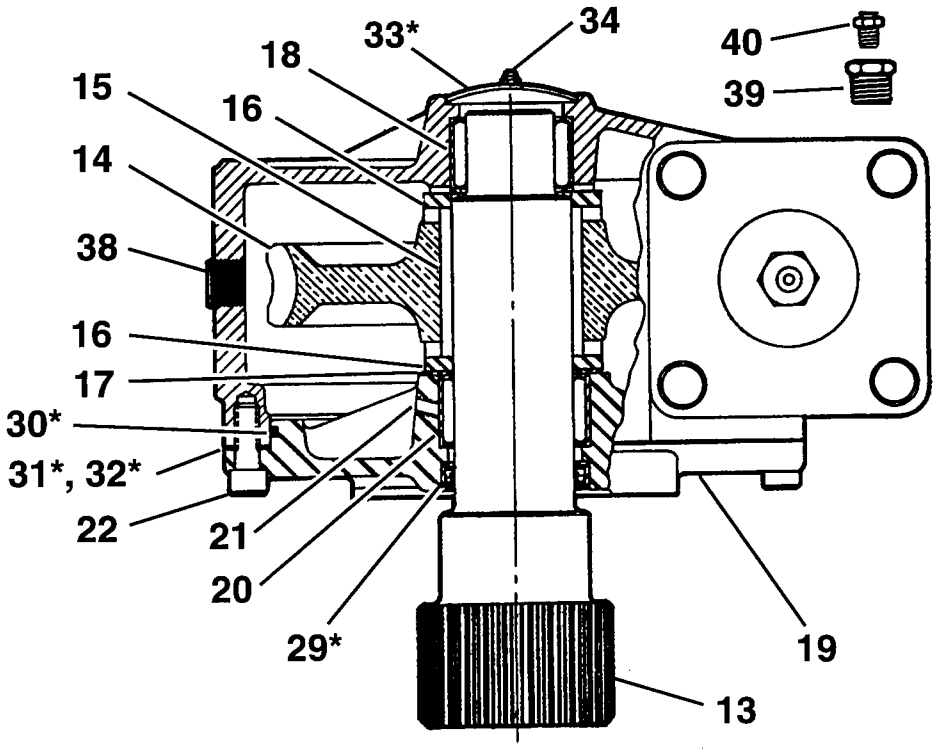
PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
02-048500	-	30 OCT. 1996	F01.	08	01

PARTS LIST

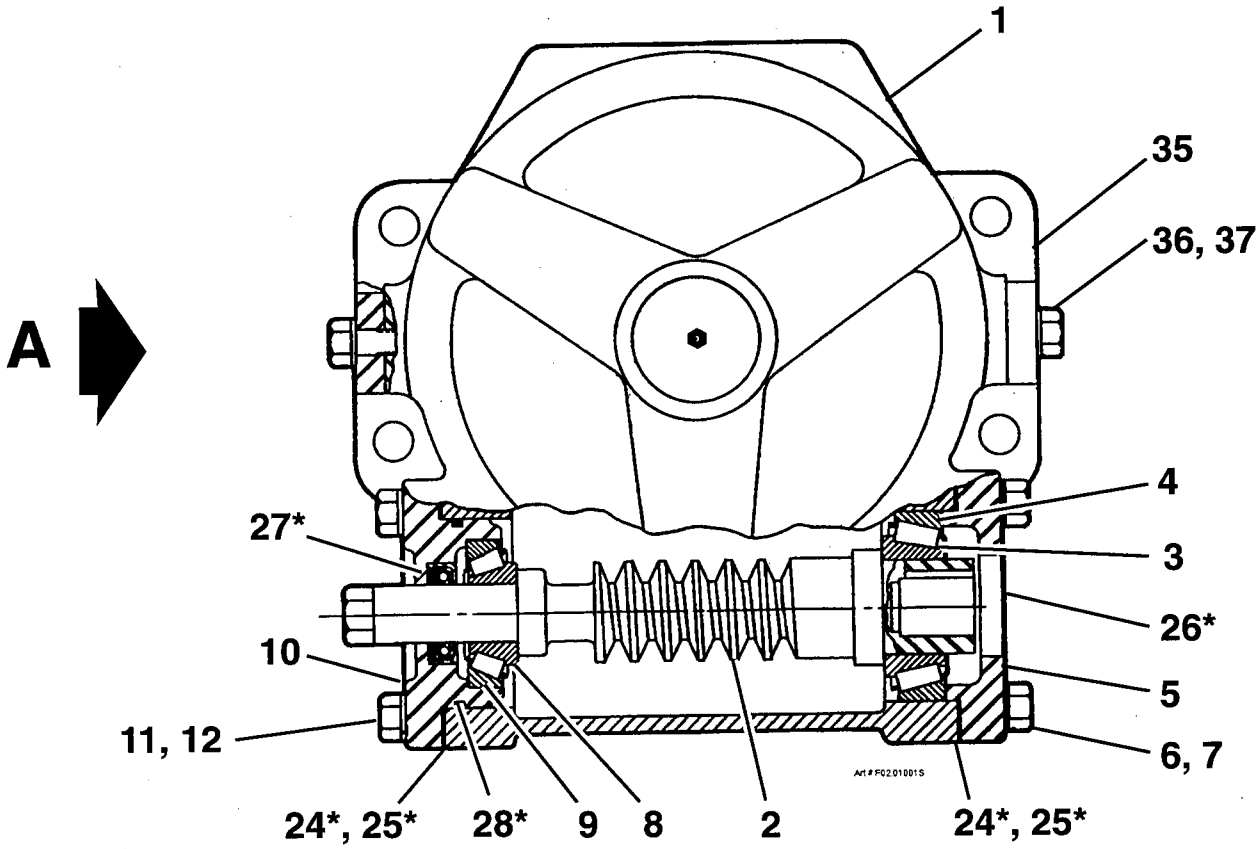
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			HOUSING, SWING REDUCER	1
2			SHAFT, WORM	1
3	02-000423		CONE AND ROLLER, INPUT BEARING [1-5/8" (41mm) bore]	1
4	02-000402		CUP, INPUT BEARING [3-1/4" (83 mm) O.D.]	1
5	02-000406		RETAINER, INPUT BEARING	1
6			CAP SCREW, HEX HEAD (7/16"-14 x 1-1/2", Grade 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 x 1-1/4", Grade 5)	4
12			WASHER, LOCK (7/16")	4
13	02-000401		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	02-000403		COVER, SWING REDUCER	1
20	02-000428		BEARING, ROLLER [2" (51 mm) I.D.]	1
21			SET SCREW (1/4"-20 x 3/8")	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, HEX SOCKET (1/2"-14 NPT)	1
39			BUSHING, REDUCER	1
40	02-000439		PLUG, VENT (1/8" NPT)	1

TITLE SWING REDUCER ASSEMBLY

PLATE NO.			REV.	PART NO.
F02.01	**SIMON AERIALS INC.**		05/15/91	02-000400



Cutaway view in direction of Arrow "A"

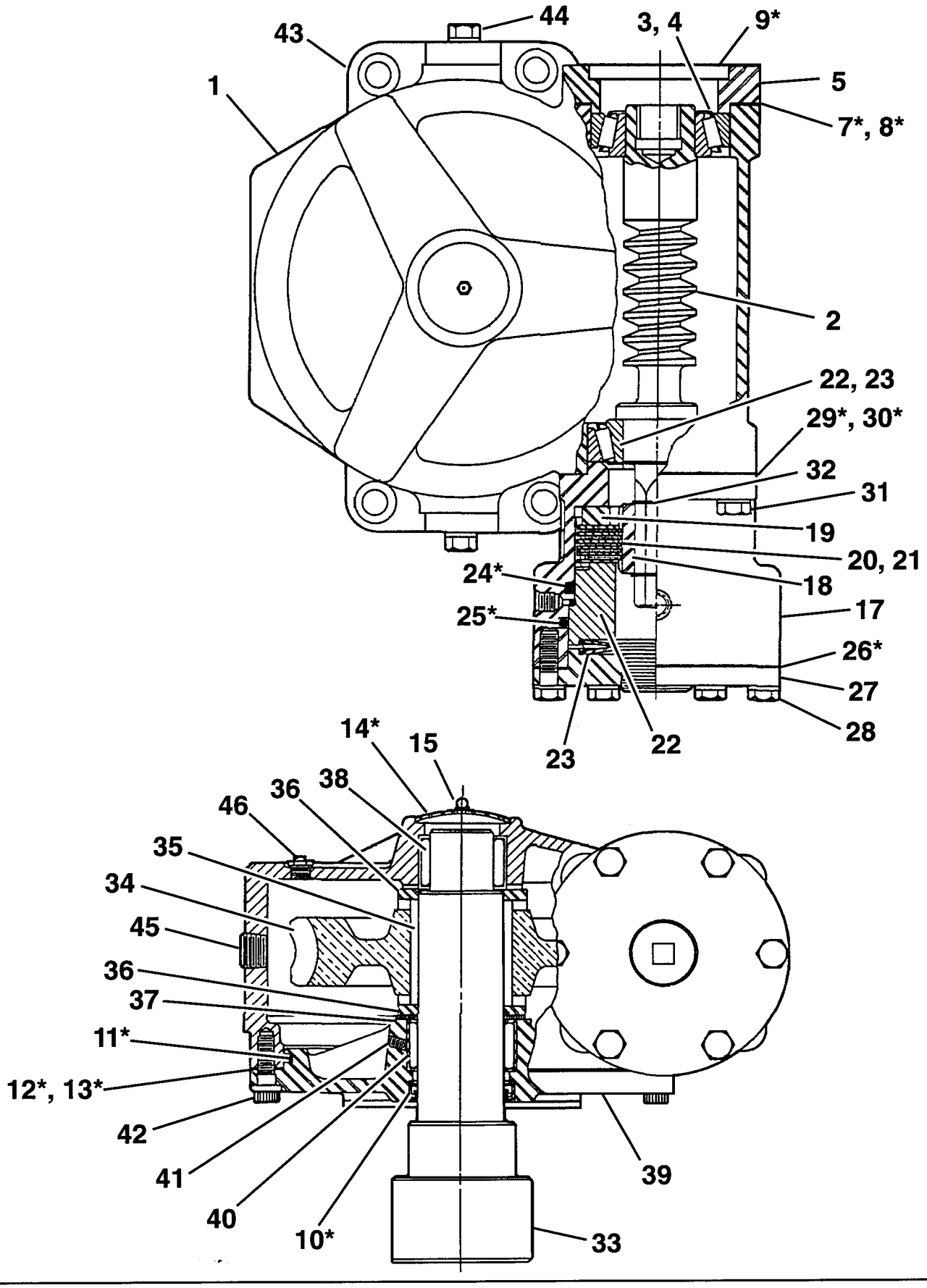


TITLE	SWING REDUCER ASSEMBLY		
SIMON AERIALS INC. REV. 05/15/91	PART NO. 02-000400	PLATE NO. F02.01	

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	02005101		SEAL KIT, SWING REDUCER	
			(Some items in seal kit are also part of brake assembly. Items in kit indicated by asterisks [*])	1
7	02-000409	*	GASKET, BEARING RETAINER (1/64" [0.4 mm])	1
8	02-000410	*	GASKET, BEARING RETAINER (1/32" [0.8 mm])	1
9		*	GASKET, MOTOR MOUNTING	1
10	02-000432	*	SEAL, OUTPUT SHAFT (2" [51 mm] I.D.)	1
11	02-000430	*	"O"-RING, COVER	1
12	02-000411	*	GASKET, COVER (1/64" [0.4 mm] red fiber)	A.R.
13	02-000412	*	GASKET, COVER (1/32" [0.8 mm] red fiber)	A.R.
14	02-000414	*	PLUG, EXPANSION (drilled for grease fitting)	1
15			FITTING, GREASE	1
16	02-005102		BRAKE ASSEMBLY	1
17			HOUSING, BRAKE	1
18			DRIVER, BRAKE	1
19			SPACER, BRAKE	1
20			PLATE, DRIVER	5
21	02-005103		DISC, BRAKE	6
22			PISTON	1
23			SPRING	2
24		*	"O"-RING	1
25		*	"O"-RING	1
26		*	GASKET, BRAKE COVER	1
27			COVER, BRAKE	1
28			CAP SCREW, HEX HEAD (7/16"-14 x 1-1/4")	6
29	02-000409	*	GASKET, BRAKE HOUSING (1/64" [0.4 mm])	1
30	02-000410	*	GASKET, BRAKE HOUSING (1/32" [0.8 mm])	1
31			CAP SCREW, HEX HEAD (7/16"-14 x 1-1/2")	4
32			RING, SNAP	2

TITLE	SWING REDUCER (PLATE 1 OF 2)		
PLATE NO. F02.02	**SIMON AERIALS INC.**	REV. 25 AUG., 1993	PART NO. 02-005100



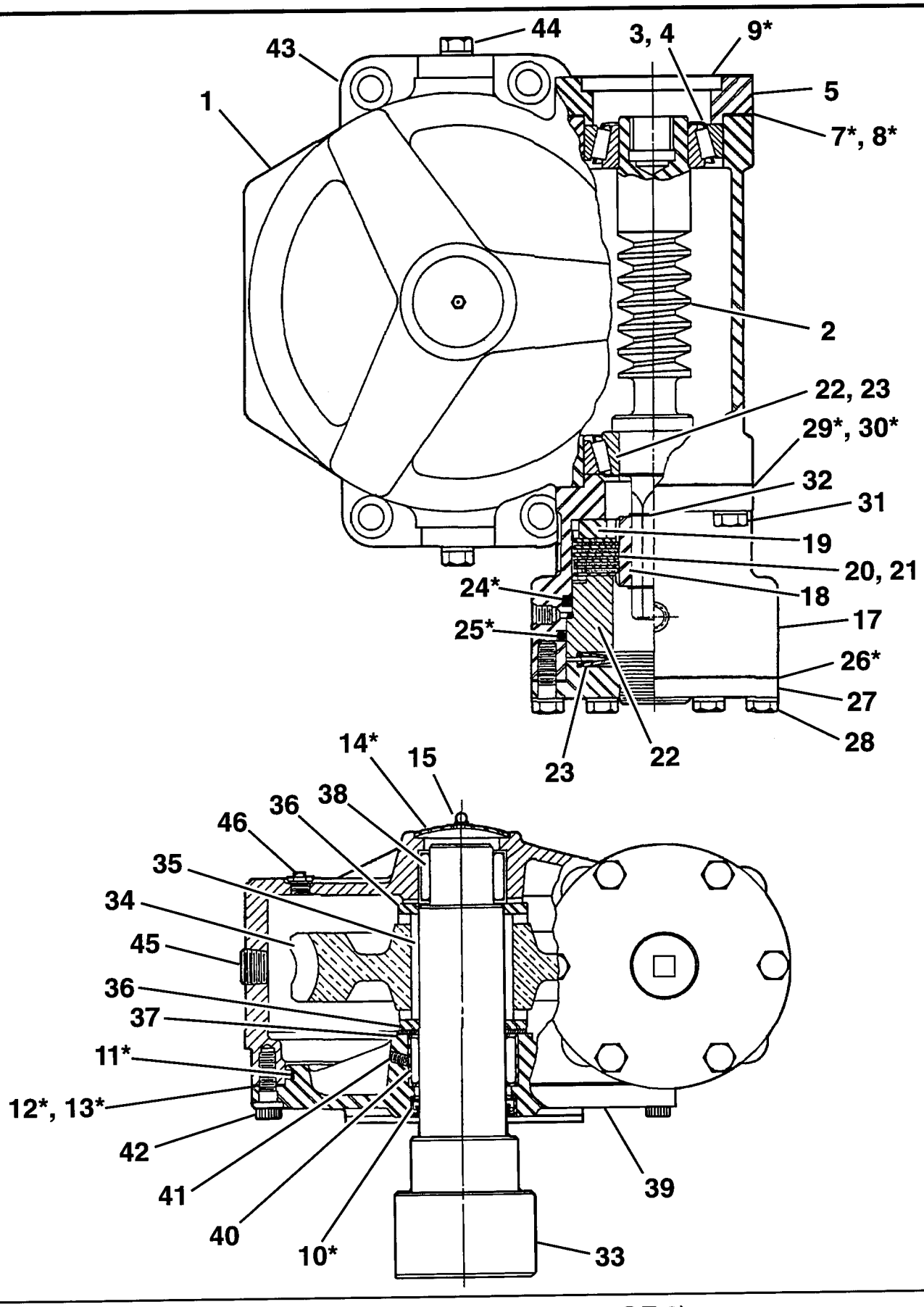
TITLE	SWING REDUCER (PLATE 1 OF 2)		
SIMON AERIALS INC. REV. 25 AUG., 1993	PART NO. 02-005100	PLATE NO. F02.02	

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
33	02-000401		SHAFT, OUTPUT	1
34			GEAR, WORM	1
35	02-000444		KEY (3/8" [9.5 mm] square)	2
36	02-000407		RING, THRUST	1
37	02-000408		SPACER	1
38	02-000427		BEARING, ROLLER (1-1/2" [38 mm] I.D.)	1
39	02-000403		COVER, SWING REDUCER	1
40	02-000428		BEARING, ROLLER (2" [51 mm] I.D.)	1
41			SET SCREW	1
42			CAP SCREW (Ferry)	6
43			BRACKET	2
44			CAP SCREW, HEX HEAD (7/16"-14 x 1")	4
45			PLUG, PIPE	1
46	02-000439		PLUG, VENT	1

TITLE SWING REDUCER (PLATE 2 OF 2)

PLATE NO.			PART NO.
F02.02	**SIMON AERIALS INC.** REV. 25 AUG., 1993		02-005100



TITLE	SWING REDUCER (PLATE 2 OF 2)		
SIMON AERIALS INC. REV. 25 AUG., 1993	PART NO. 02-005100	PLATE NO. F02.02	

PARTS LIST

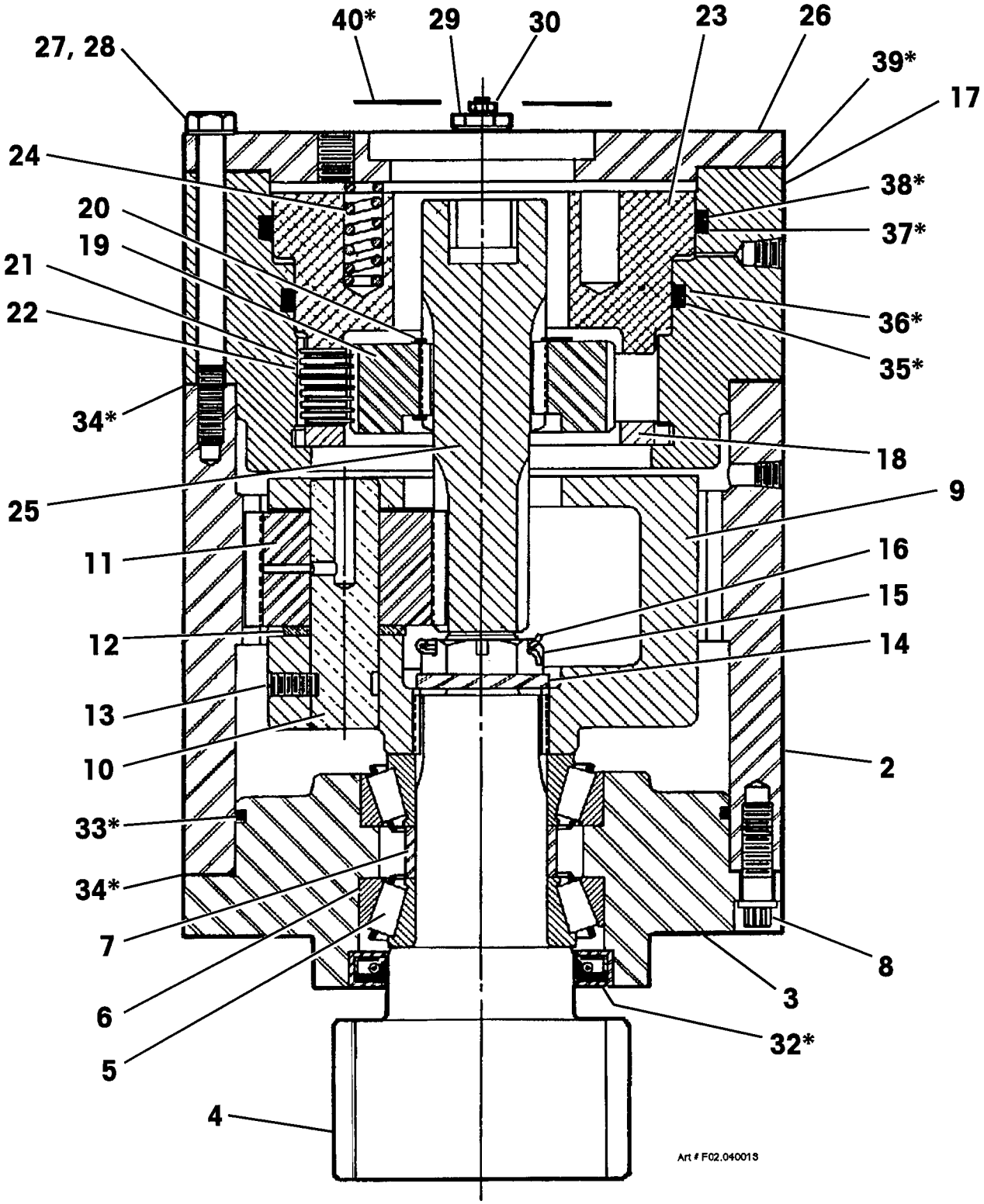
ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	02-006100		SWING REDUCER ASSEMBLY (Identified on nameplate as "D105 00029-1" or "D105-00036-1")	1
2			HOUSING, SWING REDUCER	1
3	02-006111		PLATE, BASE	1
4	02-006102		SHAFT, OUTPUT	1
5	02-005703		CONE AND ROLLER, OUTPUT SHAFT BEARING	2
6	02-006114		CUP, OUTPUT 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	PLATE NO.	PAGE	REV.	DATED	PART NO.
F02.	04	01	-	26 AUG., 1994	02-006 100

Simon Aerials Inc.
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Simon Aerials Inc.
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Fax 414-355-3172

TITLE: SWING REDUCER ASSEMBLY

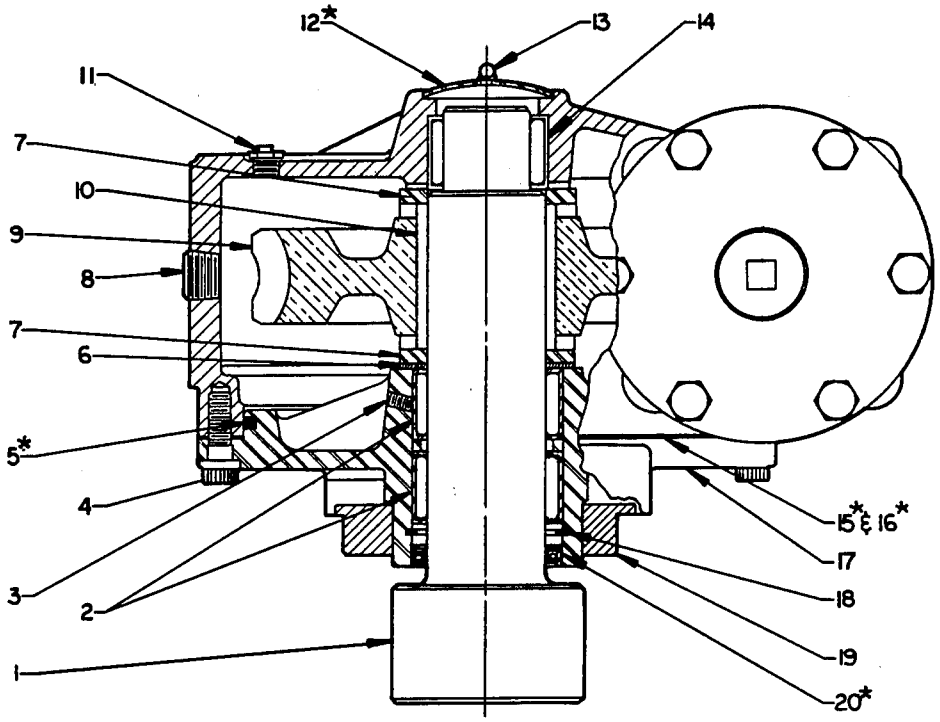
PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
02-006 100	-	26 AUG., 1994	F02.	04	01

PARTS LIST

ITEM	PART NO.	SEC.	DESCRIPTION	QTY.
1			OUTPUT SHAFT	1
2			ROLLER BEARING	2
3			SET SCREW (NOT USED)	
4			FERRY CAP SCREW	5
5*	02-000430		'O' RING	1
6			SPACER	1
7			THRUST RING	2
8			PIPE PLUG	1
9			WORM GEAR	1
10			KEY	2
11	02-000439		VENT PLUG	1
12*	02-000414		EXPANSION PLUG	1
13			ZERK	1
14	02-000427		ROLLER BEARING	1
15*	02-000411		GASKET 1/64"	1
16*	02-000412		GASKET 1/32"	1
17			COVER	1
18			SNAP RING	1
19			ECCENTRIC RING	1
20*			SHAFT SEAL	1
21			HOUSING	1
22			BRACKET	2
23			H.H.C.S. 7/16-14X1" LG.	2
24			BEARING CUP	2
25	02-000423		BEARING CONE	2
26*			MOTOR GASKET	1
27			BEARING RETAINER	1
28*	02-000409		GASKET 1/64"	1
29*	02-000410		GASKET 1/32"	2
30			WORM	1
31			SNAP RING	2
32			BRAKE DRIVER	1
33●			FERRY CAP SCREW 7/16-14X1-1/2" LG.	4
34●			BRAKE HOUSING	1
35●*			GASKET	1
36●			BRAKE COVER	1
37			H.H.C.S. 7/16-14X1-1/4" LG.	6
38●			PISTON	1
39●			SPRING	2
40●*			'O' RING	1
41●*			'O' RING	1
42●	02-005103		BRAKE DISC	6
43●			DRIVER PLATE	5
44●			BRAKE SPACER	1
*	02-006301		SEAL KIT	1
●	02-005102		BRAKE ASSEMBLY	1

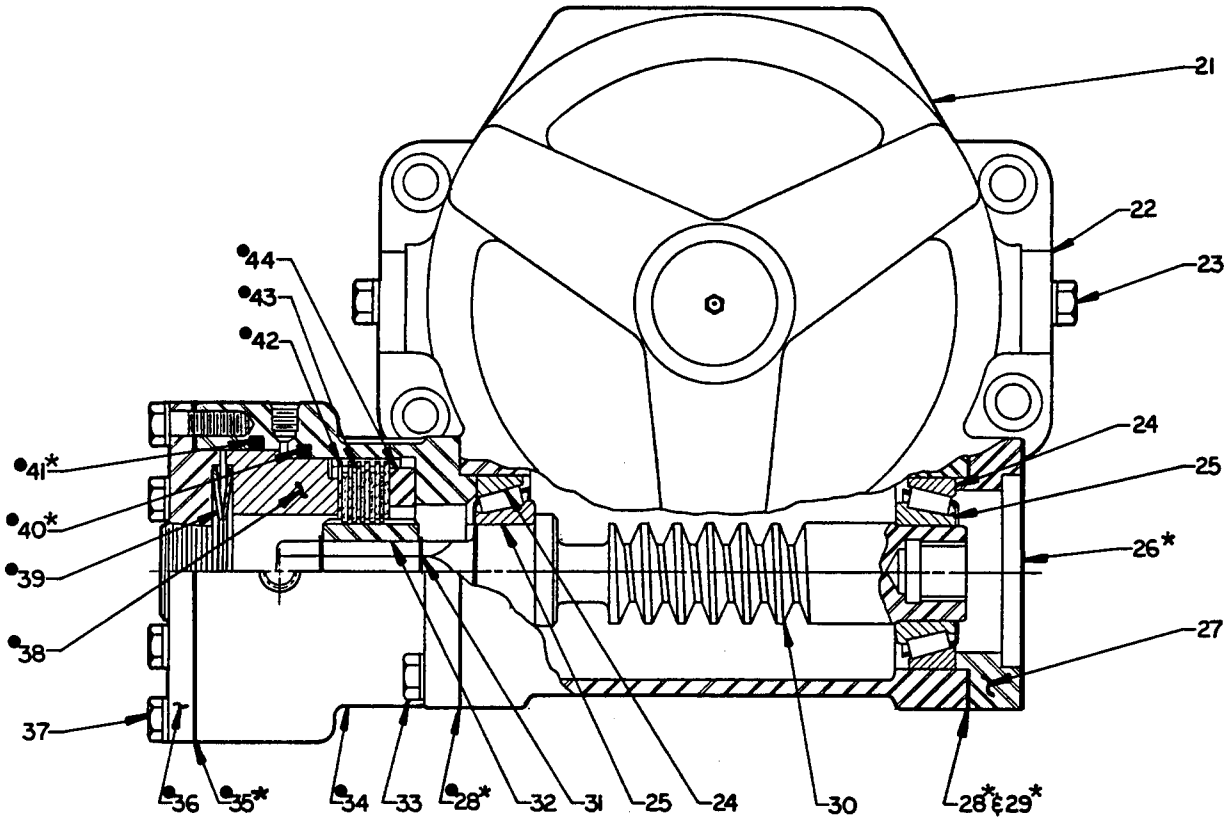
DESCRIPTION	PART NO.
SWING REDUCER	02-006300

72.8



NOTE:

* SEAL KIT P/N 02-006301
BRAKE ASSEMBLY P/N 02-005102



1084/0683

DESCRIPTION	PART NO.
SWING REDUCER	02-006300

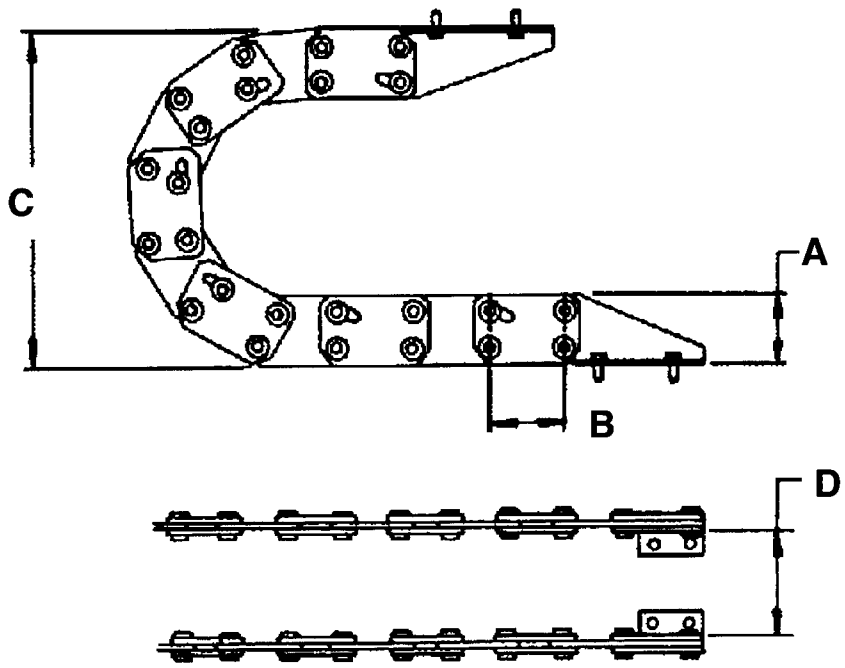
PARTS LIST

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

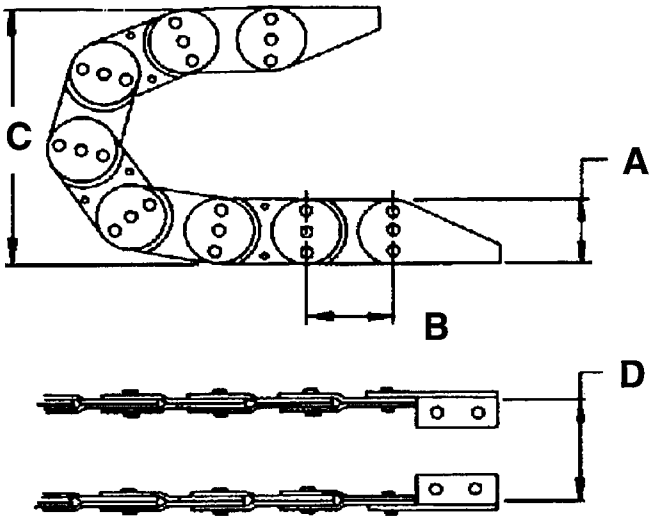
PARTS LIST

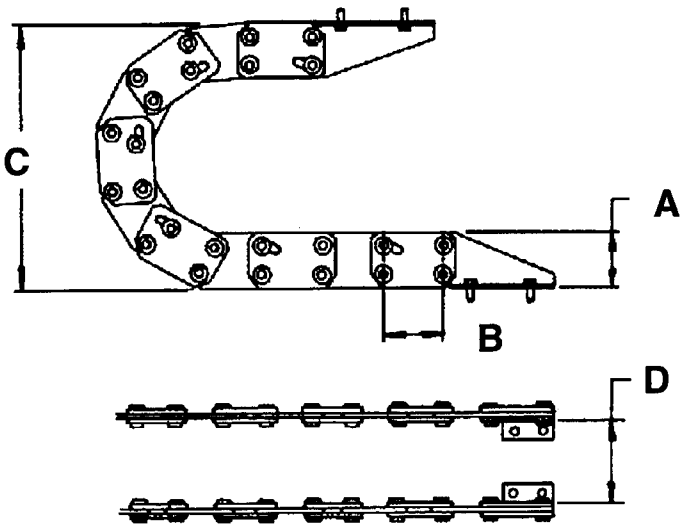
Section Number	Part Number	Track Style	Ref. Dimension "A"	"B"	"C"	"D"	No. of Links	Model Usage (ref. only)	Notes
Gleason Type 25, 35, 45 Hose Track (continued):									
F 3.33	08-011900	45	3-3/4"	5"	16"	6"	43	MPH 60 Full Hyd. MPH 60 Hydraport	not current production not current production
- - - - -	08-011901	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
25	
35	
45	

TYPE	LINK CONSTRUCTION
	

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)

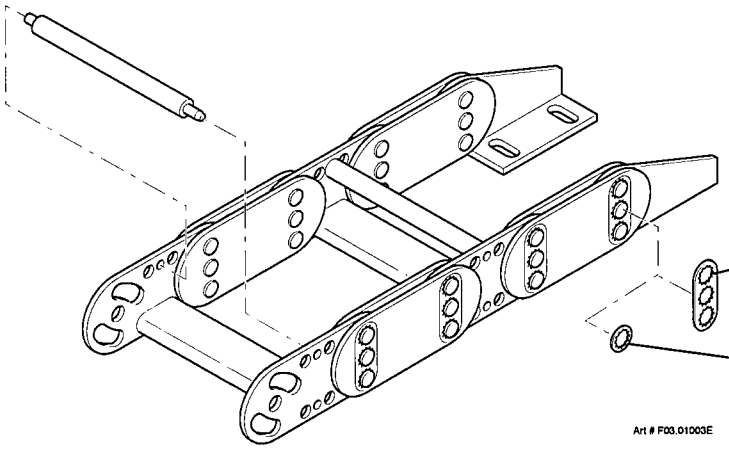
SIMON AERIALS INC. REV. 17 FEB., 1994 | **PART NO.** | **PLATE NO.** F03 ALL

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

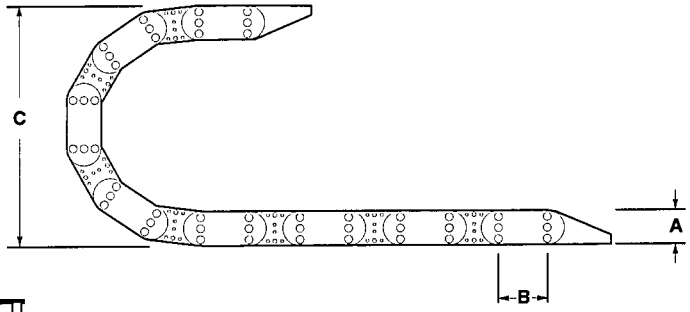
TITLE HOSE TRACK ASSEMBLIES (PLATE 3 OF 3)

PLATE NO. F03 ALL | **SIMON AERIALS INC.** | REV. 26 AUG., 1994 THIS SHEET ONLY | **PART NO.**



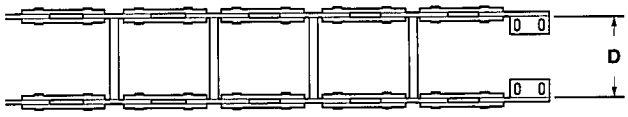
Triple Pushnut used for factory installation only.

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.

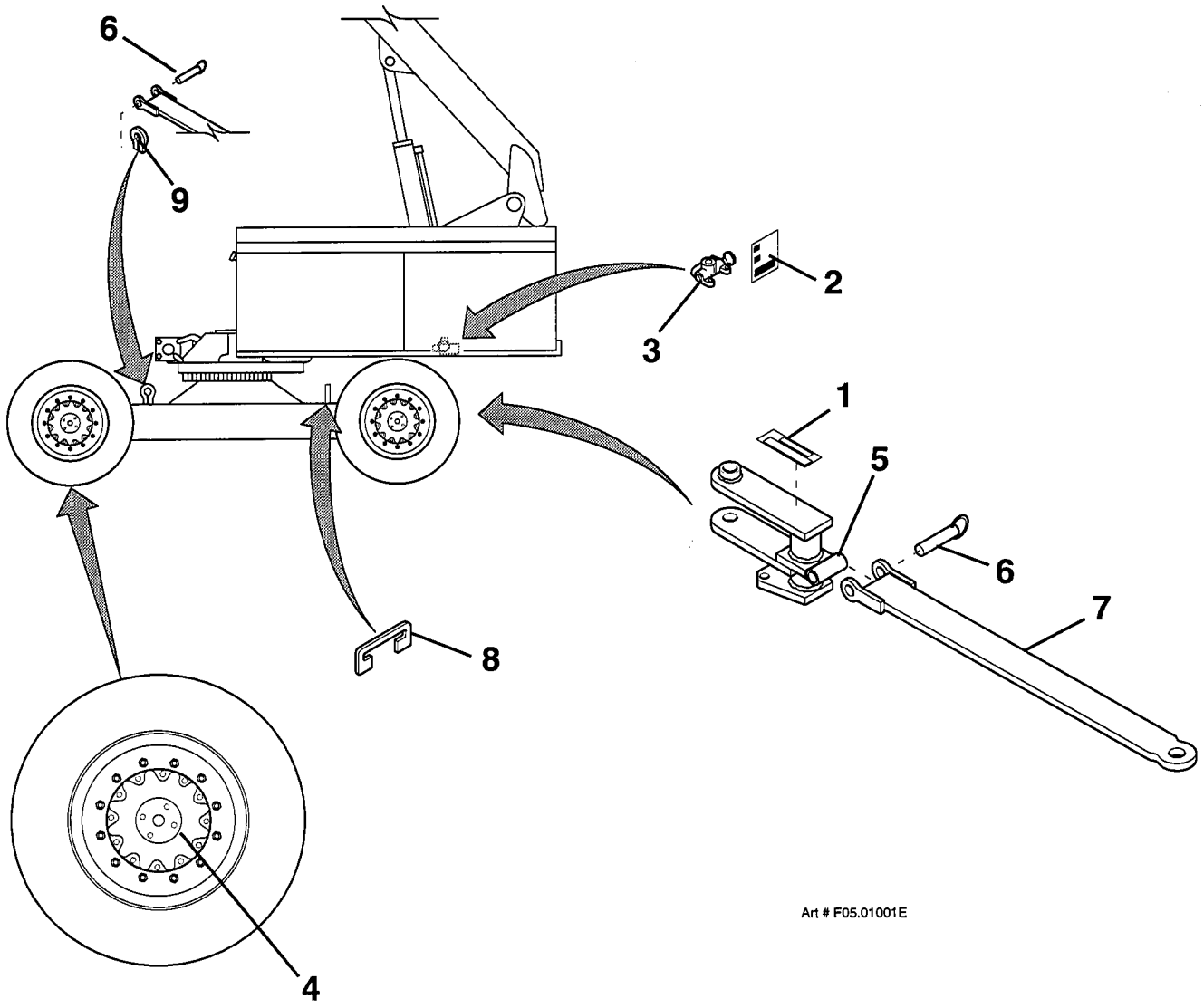
(2) Refer to the parts list and match the type to the overall height (C), width (D) and number of links.

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

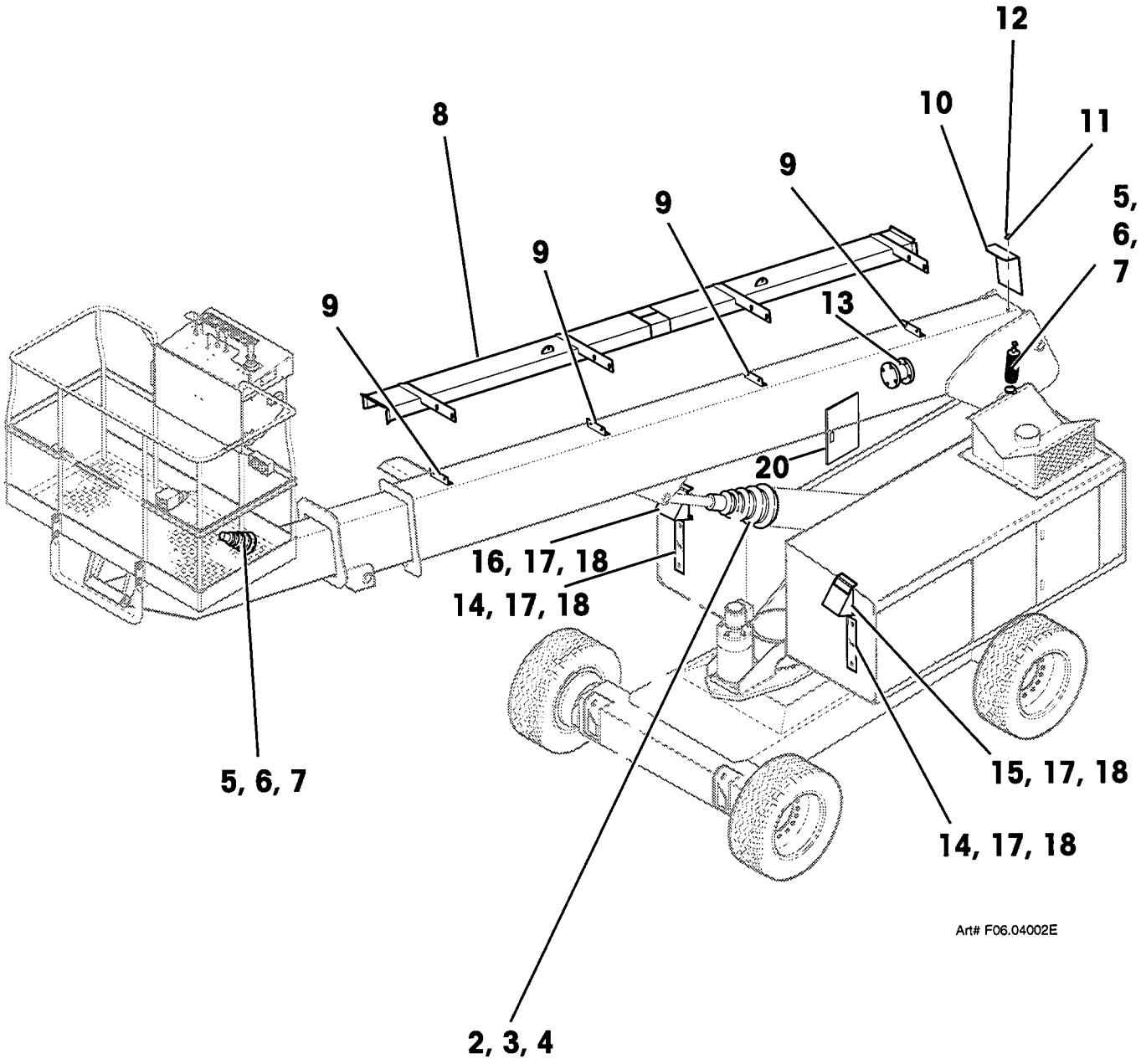
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1			HOSTILE ENVIRONMENT PACKAGE	1
2	10-106400		BOOT, BOOM LIFT CYLINDER (with zipper)	1
3	09-003700		CLAMP, HOSE (6-1/2")	1
4	09-008700		CLAMP, HOSE (4-1/2")	1
5	10-103000		BOOT, LEVEL CYLINDER (with zipper)	2
6	09-008400		CLAMP, HOSE (1-3/4")	2
7	09-015000		CLAMP, HOSE (2-1/2")	2
8	212 6430		COVER, CATRAC HOSE	1
	07-003047		CAP SCREW, HEX HEAD (3/8"-16 x 1-1/2")	8
	07-062016		WASHER, FLAT (3/8")	16
	07-050016		NUT, LOCK (3/8"-16)	8
9	211 7960		ANGLE (3" x 2" x 1/4" x 6")	4
10	231 7870		COVER, BOOM FOOT	1
11	07-062014		WASHER, FLAT (1/4")	2
12	07-044014		NUT, ACORN (1/4"-20)	2
13	235 1580		SPACER, TELESCOPE CYLINDER (base end)	1
14	217 0760		COVER, SIGHT GUAGE	2
15	208 1629		COVER, HYDRAULIC TANK FILLER	1
16	219 9690		COVER, FUEL TANK FILLER	1
17	07-062014		WASHER, FLAT (1/4")	8
18	07-044014		NUT, ACORN (1/4"-20)	8
			The following items **are not** part of the Hostile Environment Package, but are sold separately:	
19	10-159100		COVER, PLATFORM CONTROL CONSOLE (Black vinyl) (not shown)	1
20	232 6050		DOOR, ACCESS	1

TITLE: HOSTILE ENVIRONMENT PACKAGE, MP 60

SECTION F06. | PLATE NO. 04 | PAGE 01 | REV. - | DATED 31 DEC. 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



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TITLE: HOSTILE ENVIRONMENT PACKAGE, MP 60

PART NO.	REV.	DATED	SECTION	PLATE NO.	PAGE
	-	31 DEC. 1996	F06.	04	01

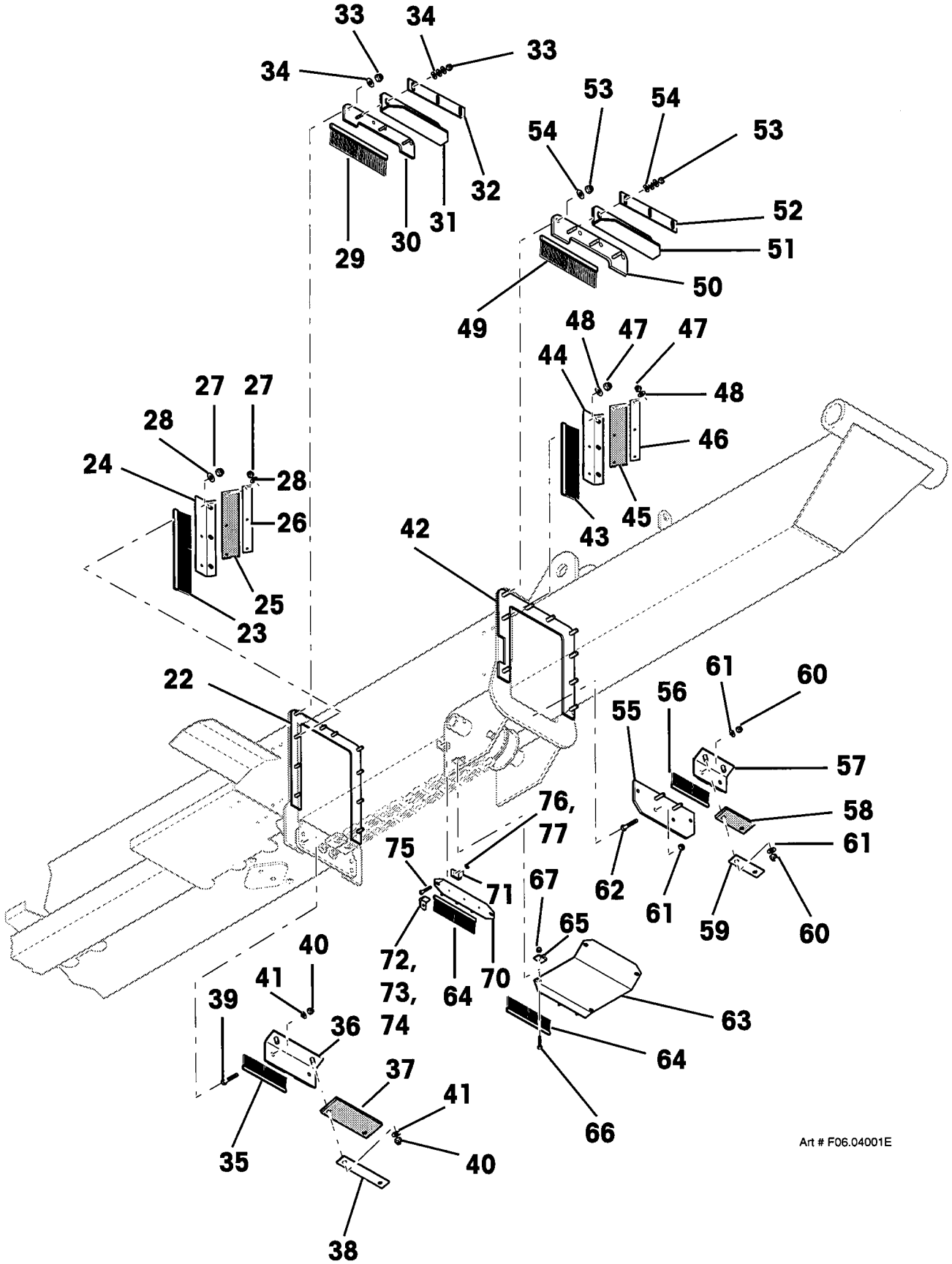
PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
21	231 7890		BOOM BRUSH AND WIPER ASSEMBLY	1
22	231 7440		FRAME, MOUNTING	1
23	231 7790		BRUSH ASSEMBLY, BOOM	2
24	231 7490		SEAL PLATE, BASE BOOM SIDE	2
25	231 7770		WIPER. BOOM SEAL	2
26	231 7780		CLAMP, BRUSH	2
27	07-050016		NUT, LOCK (3/8"-16, Grade 5)	6
28	07-062016		WASHER, FLAT (3/8")	6
29	209 3433		BRUSH ASSEMBLY, BOOM	1
30	231 7460		SEAL PLATE, BASE BOOM TOP	1
31	231 7540		SCRAPER, BOOM SEAL	1
32	231 7550		CLAMP, BRUSH	1
33	07-050016		NUT, LOCK (3/8"-16, Grade 5)	3
34	07-062016		WASHER, FLAT (3/8")	A.R.
35	217 6690		BRUSH ASSEMBLY, BOOM	1
36	231 7520		ANGLE, MOUNTING	1
37	231 7750		WIPER, BOOM SEAL	1
38	231 7760		SEAL PLATE, BASE BOOM BOTTOM	1
39	07-031008		STUD, WELD (3/8"-16 x 1")	2
40	07-050016		NUT, LOCK (3/8"-16, Grade 5)	2
41	07-062016		WASHER, FLAT (3/8")	2
42	231 7700		FRAME, MOUNTING	1
43	231 7820		BRUSH ASSEMBLY, BOOM	2
44	231 7580		SEAL PLATE, BASE BOOM SIDE	2
45	231 7830		WIPER. BOOM SEAL	2
46	231 7840		CLAMP, BRUSH	2
47	07-050016		NUT, LOCK (3/8"-16, Grade 5)	6
48	07-062016		WASHER, FLAT (3/8")	6
49	209 3446		BRUSH ASSEMBLY, BOOM	1
50	231 7560		SEAL PLATE, BASE BOOM TOP	1
51	231 7620		SCRAPER, BOOM SEAL	1
52	231 7630		CLAMP, BRUSH	1
53	07-050016		NUT, LOCK (3/8"-16, Grade 5)	3
54	07-062016		WASHER, FLAT (3/8")	A.R.
55	231 7850		PLATE, MOUNTING, BRUSH	1
56	217 6030		BRUSH ASSEMBLY, BOOM	1
57	231 7600		ANGLE, MOUNTING	1
58	231 7800		WIPER. BOOM SEAL	1
59	231 7810		CLAMP, BRUSH	1
60	07-050016		NUT, LOCK (3/8"-16, Grade 5)	4
61	07-062016		WASHER, FLAT (3/8")	2
62	07-031008		STUD, WELD (3/8"-16 x 1")	2

TITLE: HOSTILE ENVIRONMENT PACKAGE, MP 60

SECTION F06. | PLATE NO. 04 | PAGE 02 | REV. - | DATED 31 DEC. 1996 | PART NO.

Simon Aerials Inc.
10600 West Brown Deer Road
Milwaukee Wisconsin 53224 USA
Parts Phone 1-800-47-SIMON
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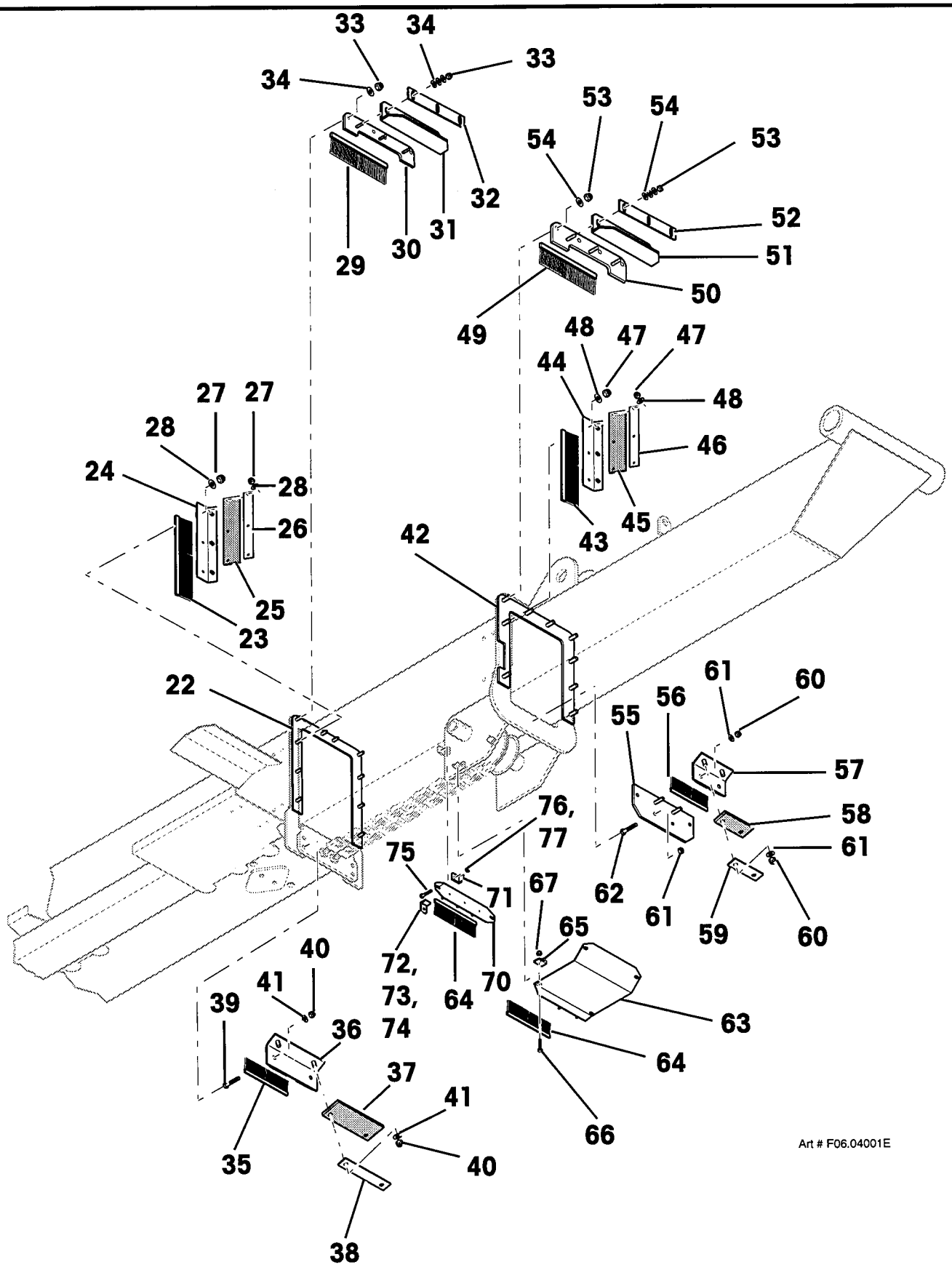


Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	TITLE	HOSTILE ENVIRONMENT PACKAGE, MP 60				
	PART NO.	REV. -	DATED 31 DEC. 1996	SECTION F06.	PLATE NO. 04	PAGE 02

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
			BOOM BRUSH AND WIPER ASSEMBLY (Continued)	
63	209 1075		COVER, BOOM SHEAVES	1
64	217 6030		BRUSH ASSEMBLY, BOOM	2
65	204 1739		RETAINER, BRUSH	4
66	07-003023		CAPSCREW, HEX HEAD (5/16-18 x 3/4")	4
67	07-050014		NUT, LOCK (1/4"-20)	4
68	07-050016		NUT, LOCK (3/8"-16, Grade 5)	6
69	209 1080		WASHER, FLAT (3/8")	6
70	- - -		PLATE, BRUSH MOUNTING	
71	204 1739		RETAINER, BRUSH	2
72	209 1136		ANGLE, MOUNTING	6
73	07-050014		NUT, LOCK (1/4"-20)	2
74	07-062014		WASHER, FLAT (1/4")	2
75	07-003025		CAPSCREW, HEX HEAD (5/16-18 x 1")	2
76	07-050015		NUT, LOCK (5/16"-18)	6
77	07-065015		WASHER, FLAT (5/16")	12

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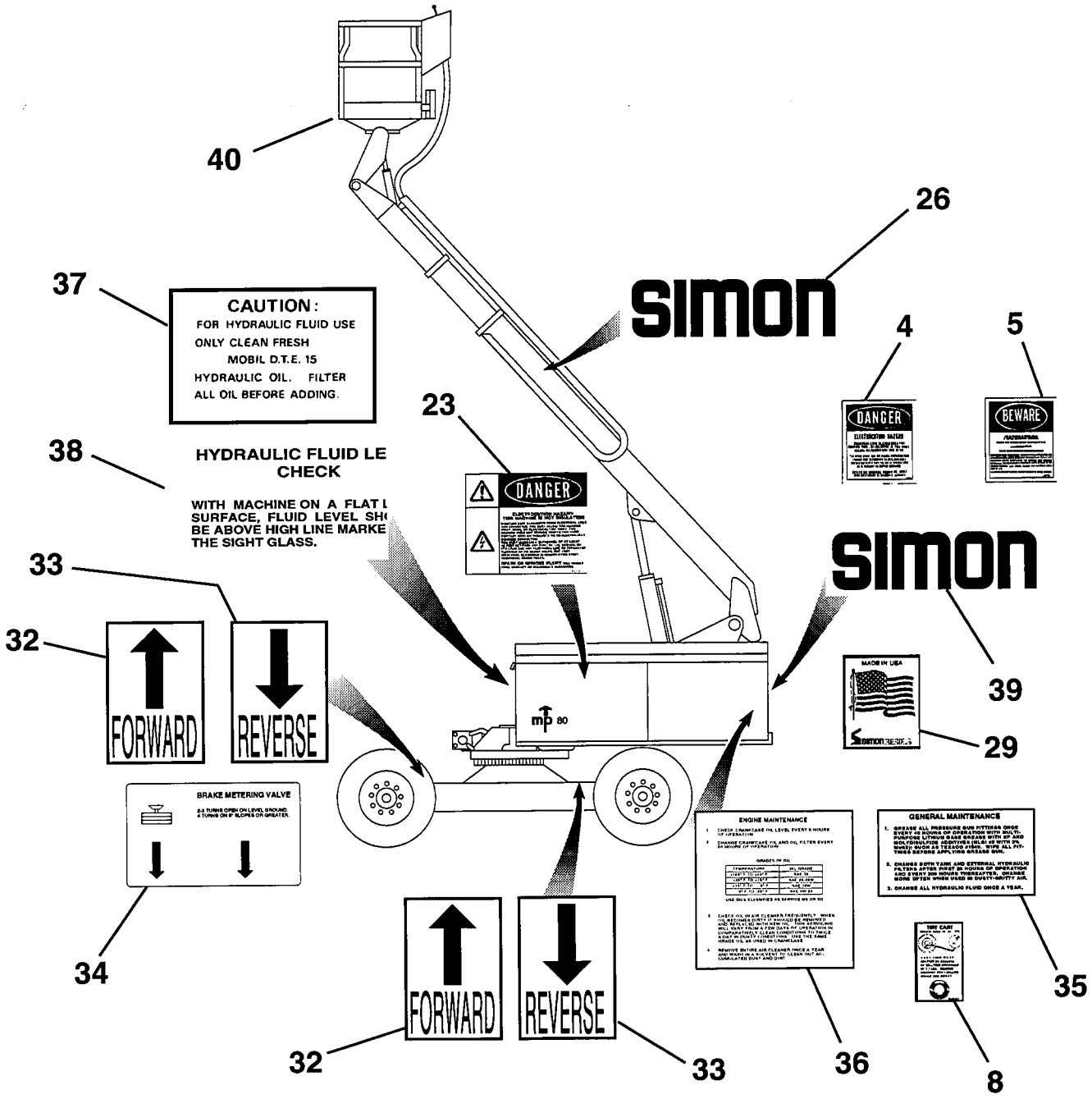


Simon Aerials Inc. 10600 West Brown Deer Road Milwaukee Wisconsin 53224 USA Parts Phone 1-800-47-SIMON 24 Hr (Machine) 414-362-8280 Fax 414-355-3172	TITLE HOSTILE ENVIRONMENT PACKAGE, MP 60					
	PART NO.	REV. -	DATED 31 DEC. 1996	SECTION F06.	PLATE NO. 04	PAGE 03

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
1	10-120300		PLACARD, PLATFORM CONTROL (Full hydraulic, type 2)	1
2	10-120000		PLACARD, PLATFORM ELECTRICAL BOX (Full hyd, type 2)	1
3	10-012000		DECAL, "CONTROL INSTRUCTIONS"	1
4	10-018900		DECAL, "BEWARE" (Potential Hazard)	2
5	10-019000		DECAL, "DANGER" (Electrocution Hazard) [small, 4-1/8" (105 mm) x 4-5/8" (117 mm)]	2
6	10-014200		DECAL, "ATTENTION" (5° Tilt alarm)	1
7	10-066100		PLACARD, "550 LBS (249.5 kg) . . . capacity"	1
8	10-012100		DECAL, TIRE CARE (80#, liquid filled)	3
9	10-007200		DECAL, "DISENGAGE LOCKPIN . . ."	1
10	10-119900		DECAL, PLATFORM LEVEL AND ROTATE	1
11	10-007600		DECAL, "120 V.A.C., 20 Amp"	1
12	10-008800		DECAL, "GROUND CONTROLS"	1
13	10-012600		DECAL, "CAUTION" (Open tank valves . . .)	1
14	10-087400		DECAL, GROUND CONTROL VALVES (Full hydraulic)	1
15	10-026000		DECAL, GROUND ELECTRICAL CONTROLS	1
16	10-026200		DECAL, "GLOW PLUG"	1
17	2089113		DECAL, "FOR NORMAL CONTROL FUNCTION . . ."	1
18	10-024500		DECAL, "20 AMP CIRCUIT BREAKER" (red text)	1
19	10-022600		DECAL, "550 LBS (249.5 kg) . . . capacity"	1
20	10-119800		DECAL, PENDANT CONTROL	1
21	10-119700		DECAL, "EMERGENCY PUMP/ DEADMAN"	1
22	10-016600		PLACARD, "REMOTE CONTROLLER"	1
23	10-084900		DECAL, "DANGER" (Electrocution Hazard) [large, 7-1/4" (184 mm) x 6" (152 mm)]	2
24	10-013500		PLACARD, "DIESEL FUEL ONLY" (Black type, one line)	1
25	10-105900		DECAL, "SIMON" NAME [White, 5" (127 mm) high]	1
26	10-017100		DECAL, "SIMON" NAME [Black, 7" (178 mm) high]	1
27	10-019200		DECAL, "MP" NAME	2
28	10-018500		DECAL, NUMBER "60"	2
29	10-121600		DECAL, "MADE IN USA"	2
30	10-017400		DECAL, STRIPING (Bulk, order in feet) [Black-Orange-Black, 3-1/2" (89 mm) wide]	A.R.
31	10-025100		DECAL, CORNER STRIPE (Black-Orange-Black)	2

TITLE	DECALS, MP 60 FULL HYDRAULIC (with Type 2 controls)			
PLATE NO.	F99.03	**SIMON AERIALS INC.**	NEW 05/21/91	PART NO.

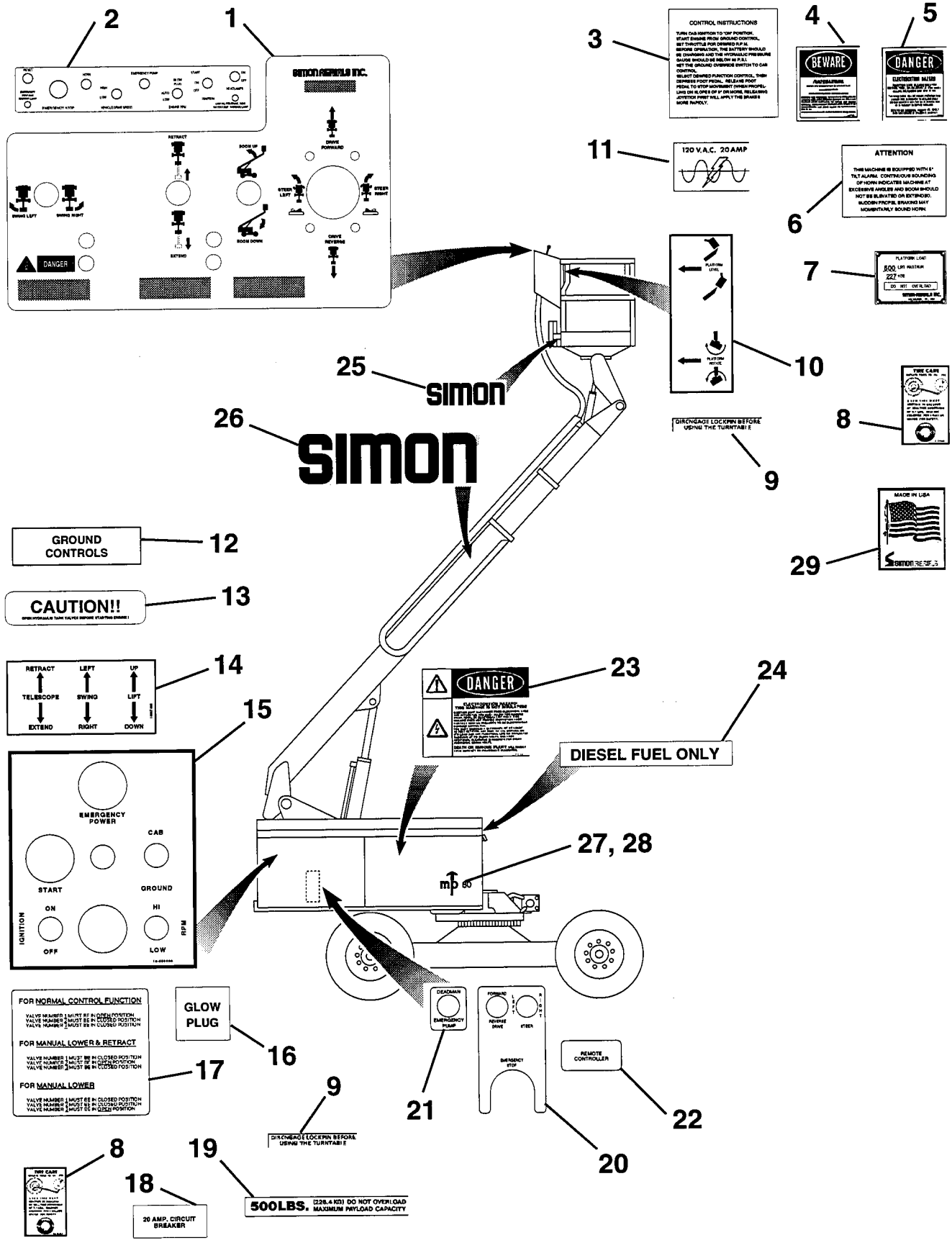


TITLE	DECALS, MP 60 FULL HYDRAULIC (with Type 2 controls)		
SIMON AERIALS INC.	NEW 05/21/91	PART NO.	PLATE NO. F99.03

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
32	10-120200		DECAL, "FORWARD" (Black)	2
33	10-120100		DECAL, "REVERSE" (Red)	2
34	10-011900		DECAL, "BRAKE METERING VALVE . . ."	1
35	10-007400		DECAL, "GENERAL MAINTENANCE . . ."	1
36	10-111600		DECAL, "ENGINE MAINTENANCE . . ."	1
37	10-012200		DECAL, "CAUTION" (For Hydraulic Fluid . . . DTE 15 . . .)	1
38	10-015200		DECAL, "HYDRAULIC FLUID LEVEL CHECK"	1
39	10-017100		DECAL, "SIMON" NAME [Black, 7" (178 mm) high]	1
40	10-031000		STRIP, "SAF-STEP" (Black) (Bulk, order in feet)	A.R.

TITLE	DECALS, MP 60 FULL HYDRAULIC (with Type 2 controls)			
PLATE NO.	F99.03	**SIMON AERIALS INC.**	NEW 05/21/91	PART NO.

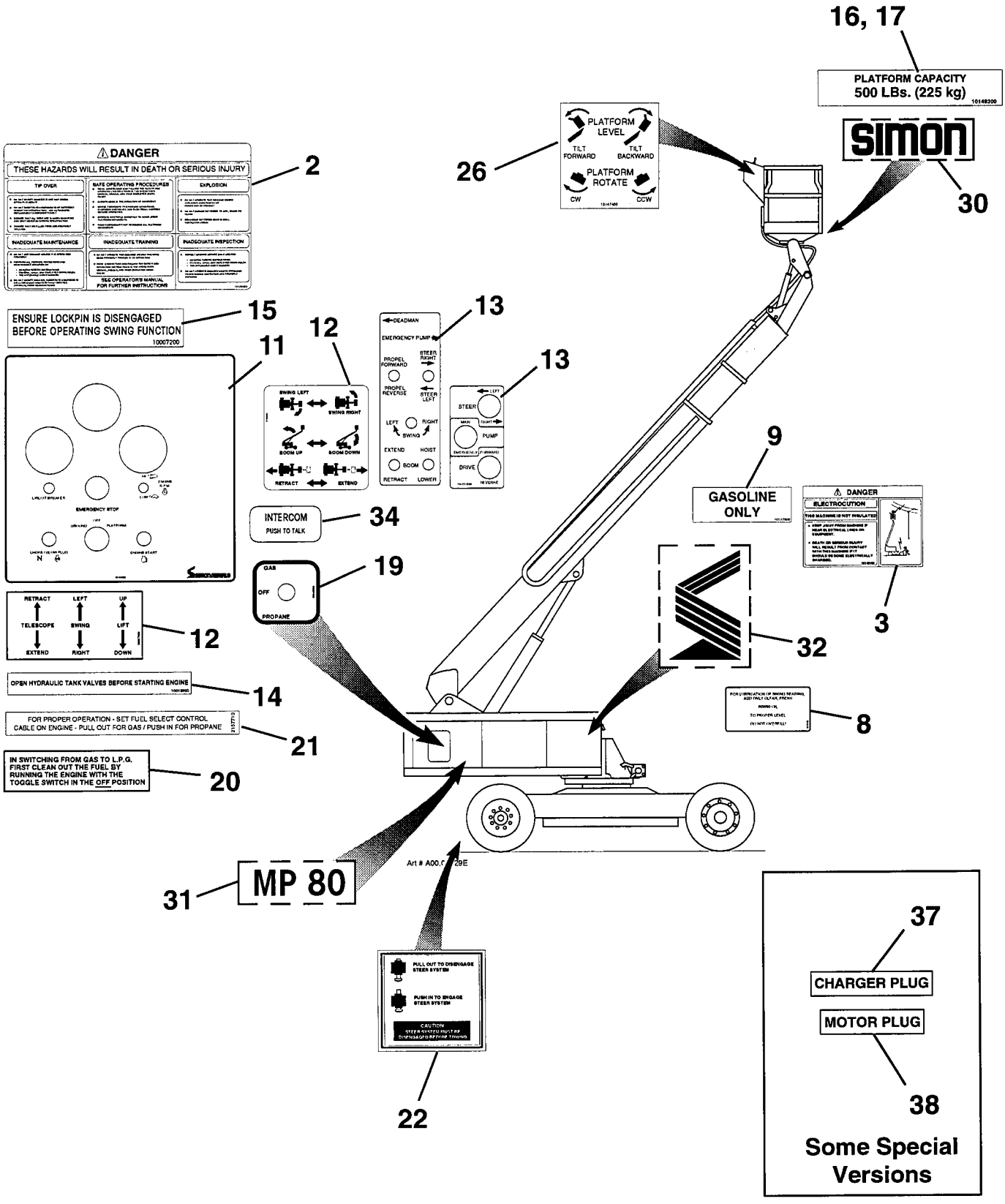


TITLE	DECALS, MP 60 FULL HYDRAULIC (with Type 2 controls)		
SIMON AERIALS INC.	NEW 05/21/91	PART NO.	PLATE NO. F99.03

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	10-145100		DECAL, "DANGER" (Electrocution)	2
4	10-142100		DECAL, "DANGER" (Hazard listing, at Platform controls)	1
5	10-094700		DECAL, "CAUTION, HOT WATER . . ."	
			(for versions with liquid cooled engine)	1
6	10-094900		DECAL, "CAUTION, ROTATING FAN . . ."	
			(for versions with liquid cooled engine)	1
7	10-025400		DECAL, ENGINE MAINTENANCE (decal is marked "F3-6L912" and "2973582") (used with Deutz 912 engine)	1
8	10-135100		DECAL, "FOR LUBRICATION OF SWING BEARING . . ."	
			(with optional oil bath swing bearing)	1
9			PLACARD, FUEL	1
	10-117900		"GASOLINE ONLY" (Black type on white)	
	10-151100		"DIESEL FUEL ONLY" (Black type on white)	
10	10-151300		PLACARD, "HYDRAULIC FLUID ONLY"	1
11			DECAL, GROUND ELECTRICAL CONTROLS	1
	10-144300		Standard (3 Gauge cutouts, 6 Switch cutouts)	
	10-259200		Special Electric-powered (2 Gauge and 4 Switch cutouts)	
12			DECAL, GROUND CONTROL VALVES	1
	10-087400		With "Full Hydraulic" controls.	
	10-158600		With "Electro-Proportional" controls.	
13			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)	
14	10-012600		DECAL, "OPEN HYDRAULIC TANK VALVES . . ."	1
15	10-007200		DECAL, "ENSURE LOCK PIN IS DISENGAGED . . ."	2

TITLE	DECALS, MP 40 THRU MP 80 (PLATE 1 OF 3)	
PLATE NO. F99.10	**SIMON AERIALS INC.** REV. 28 FEB., 1995	PART NO.



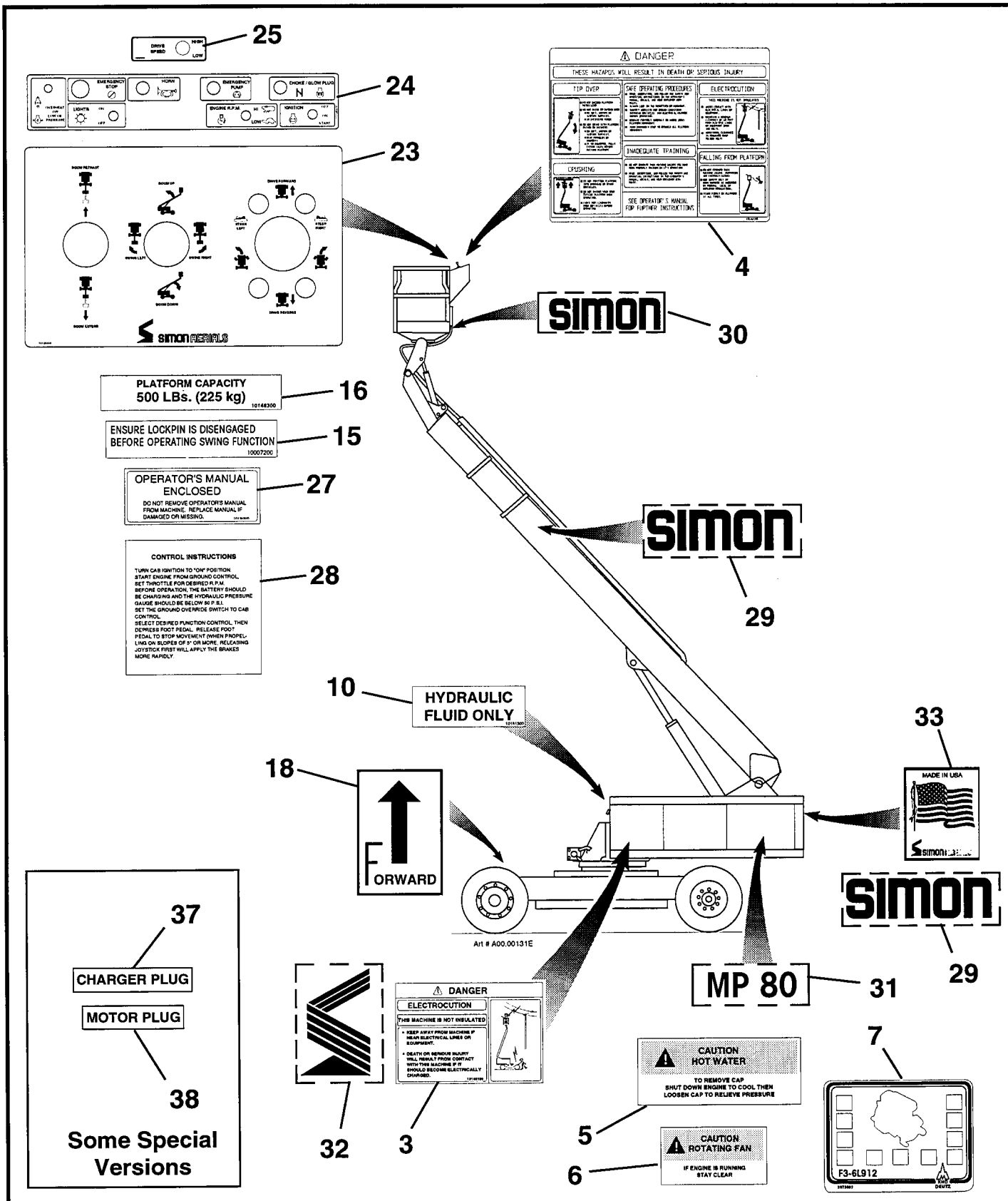
Left side decals (typical version shown). Specific models or options may cause changes in decal location. See following page for illustration of Right side decals.

TITLE	DECALS, MP 40 THRU MP 80 (PLATE 1 OF 3)		
SIMON AERIALS INC.	REV. 28 FEB., 1995	PART NO.	PLATE NO. F99.10

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
16			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)"	
17			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)"	
18	10-012900		DECAL, "FORWARD" WITH ARROW	2
19	10-016800		DECAL, "GAS/ OFF/ PROPANE"	
			(for some "Dual fuel" versions)	1
20	10-025000		DECAL, "IN SWITCHING FROM GAS TO PROPANE . . ."	
			(for some "Dual fuel" versions)	1
21	215 7710		DECAL, "FOR PROPER OPERATION - SET FUEL . . ."	
			(for some "Dual fuel" versions)	1
22	10-107200		DECAL, "CAUTION" ("Steer system must be disengaged ...")	
			(for versions with optional tow package)	1
23			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 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.	

TITLE	DECALS, MP 40 THRU MP 80 (PLATE 2 OF 3)	
PLATE NO. F99.10	**SIMON AERIALS INC.** REV. 28 FEB., 1995	**PART NO.**



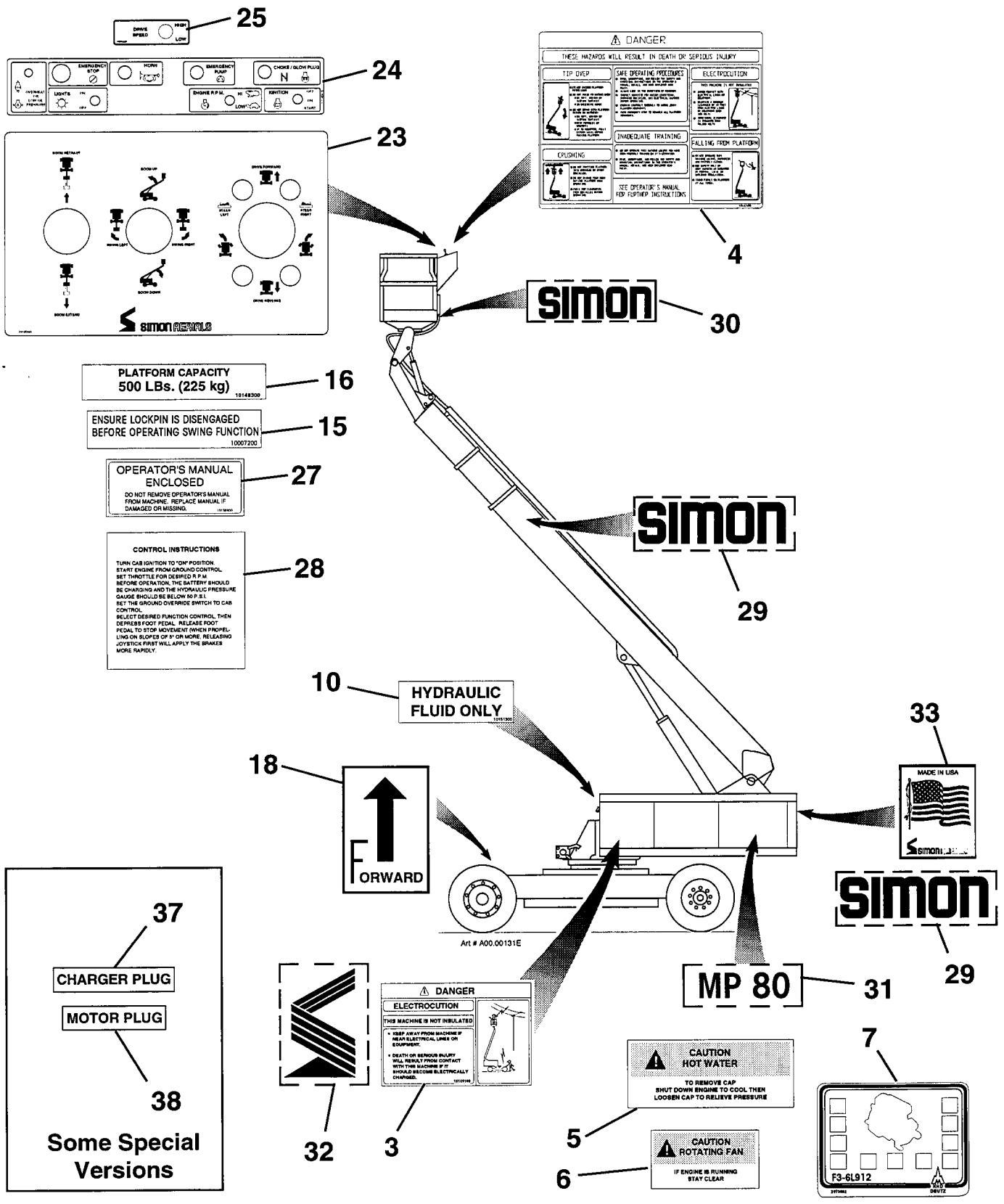
Right side decals (typical version shown). Specific models or options may cause changes in decal location. See first page for illustration of Left side decals.

TITLE	DECALS, MP 40 THRU MP 80 (PLATE 2 OF 3)		
SIMON AERIALS INC.	REV. 28 FEB., 1995	PART NO.	PLATE NO. F99.10

PARTS LIST

ITEM	PART NO	SEE SECTION	DESCRIPTION	QTY.
24			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	
25	10-224800		DECAL, "DRIVE SPEED . . ." (with optional 2 speed drive)	1
26			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
27	10-139800		DECAL, "OPERATOR'S MANUAL ENCLOSED"	1
28	10-012000		DECAL, "CONTROL INSTRUCTIONS . . ."	
			(with **"Hydraport"** controls)	1
29	10-017100		DECAL, "SIMON" NAME (Black, 7" [178 mm] high)	2
30	10-105900		DECAL, "SIMON" NAME (White, 5" [127 mm] high)	1
31	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
32	10-131900		DECAL, SIMON "S" LOGO	
			(Orange/ Gray, 9" [229 mm] wide x 13-1/2" [344 mm])	2
33	10-121600		DECAL, "MADE IN U.S.A."	1
34	10-126800		DECAL, STRIPE ([4] Orange stripes, 3-3/4" [95 mm] wide)	
			(Bulk item, order as needed)	A.R.
35	10-126900		DECAL, STRIPE ([3] Dk Gray stripes, 2-1/8" [54 mm] wide)	
			(Bulk item, order as needed)	A.R.
36	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:	
37	10-123000		DECAL, "CHARGER PLUG"	1
38	10-123100		DECAL, "MOTOR PLUG"	1

TITLE	DECALS, MP 40 THRU MP 80 (PLATE 3 OF 3)		
PLATE NO. F99.10	**SIMON AERIALS INC.**	REV. 28 FEB., 1995	PART NO.



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.

TITLE	DECALS, MP 40 THRU MP 80 (PLATE 3 OF 3)		
SIMON AERIALS INC.	REV. 28 FEB., 1995	PART NO.	PLATE NO. F99.10