REMOVE ALL BURRS AND SHARP EDGES

IF IN DOUBT—ASK DO NOT SCALE

ALL DIMENSIONS IN MM

C# DRV	OUTPUT TO CAGE LEVEL SIGNAL	J2A	SIGNAL TO UPPER BOOM DOWN
C# UP	CAGE UP SIGNAL	J2B	SIGNAL TO UPPER BOOM UP
C# DWN	CAGE DOWN SIGNAL	J3A	SIGNAL TO SLEW RIGHT
SwSW	BOOMS ENABLE	J3B	SIGNAL TO SLEW LEFT
Sw ANL	BOOMS SPEED SIGNAL	J4A	SIGNAL TO TELE EXTEND
J1A	SIGNAL TO LOWER BOOM DOWN	J4B	SIGNAL TO TELE RETRACT
J1B	SIGNAL TO LOWER BOOM UP		

NOTE : RELAYS RA,RB,RK,RM&RT = 42015-0015

NOTE : RELAYS RC,RP,RQ,RU,RV,RX,RY&RZ = 42015-0058

= MACHINE OPTIONS

OPTIONS

(2) = 8M MAX TRAVELLING HEIGHT

(3) = MOTION BLEPPER

(4) = POWER ON INDICATOR

= SP120 ADDITIONS

TELE JOYSTICK LEVER
LOWER TELE SELECTOR SW.
CAGE LEVELLING SWITCH
CAGE AND TELE SOLNOIDS
IGNORE CONTACT 24,21 ON RELAY RD FOR SP100 MACHINES, I.E. NO CAGE LEVELLING

UPPER FUNCTIONS JOYSTICKS

RED = 8V NOMINAL ±1V APPROXIMATELY
BLACK = NEGATIVE
GREEN = 4V CONSTANT APPROXIMATELY
BLUE = 1st ACCELERATOR SIGNAL
YELLOW = 2nd ACCELERATOR SIGNAL
ACCERLATER SIGNAL = 4V NEUTRAL, 4.8V MAX,3.2V MIN.

DRIVE JOYSTICK

RED = 24V FEED — BLACK = NEGATIVE
WHITE = FORWARD — GREEN = REVERSE
YELLOW = STEER RIGHT BROWN = STEER LEFT
BLUE = ACCELERATOR SIGNAL (4V TO 0V)

BRAKE\STEER MANIFOLD 11029-0002

BRAKE(S2) · BRAKE(S1) · STEER(S3) · STEER(S4) · PRESSURE SWITCH 41022-0044 · 12-CORE

CONNECTED TO ONE DRIVE MOTOR

TACHO-METER 32018-0002 · 2-CORE · BLUE · BROWN

5° TILT SENSOR 42013-0349 · BLK · WHT · GRN · 3-CORE 42012-0081

BOOM REST SWITCH, J1 (STANDARD) 42002-0231 · BLUE · RED · N.C. · N.O. · BRN · BLACK · 7-CORE 42012-0052

BLU · RED · BRN · BLK · GREEN · WHI · YEL

OPTION (3) · PCB BOARD-42014-0116 REVNO · RLY A · RLY B · RLY M · HORN · TILT

STANDARD · RELAY RP · RELAY RQ · 18-CORE · 34-CORE

T1 · T2 · +/B · -/B

HORN 42013-0018

RELAY CONTACTS ON PCB CARD

SEVCON MOS 90 ASSEMBLY 32014-0002

SEVCON CABLES · PLUG/SOCKET SEE 22005-0011

MOS 90 TERMINALS · CALIBRATOR · INTERFACE CARD 42014-0110

DRIVE MOTOR WITH TACHO FITTED (LHS).

DRIVE MOTOR

BATTERY PACK 32006-0019 · 12V · 12V · 325A · 425A · ANDERSON PLUGS 42006-0018

CHARGER CHANGEOVER CONTACTOR

PUMP/DRIVE CONTACTOR · PUMP OVERRIDE CONTACTOR

6mm² G/Y EARTH TO CHASSIS 42012-0084

CHARGER 32007-0015 · +24V · -Ve · E · L · N

BLUE · BRN · 2 CORE 1.5mm2

OPTION (4) · RED

E.STOP 42002-0074 · HORN BUTTON 42002-0063 · POWER INDICATOR 42010-0036 · HOUR METER 42014-0076 · DRIVE/STEER JOYSTICK 32019-0002 · CAGE LEVEL 42002-0144 · BOOM CUTOUT (BAT DISCHARGE IND) · RELAY RT · DRIVE LEVELLING MAST

LOWER DERRICK JOYSTICK 32019-0001 · SLEW/ UPPER DERRICK JOYSTICK 32019-0003 · TELE JOYSTICK 32019-0001

I.C.T. CIRCUIT BOARD 32014-0010

FUNCTION SELECT · FAULT · POWER ON · 1000mA FUSE

RELAYS: DRIVE SELECT SQ · BOOM SELECT SP · LOWER BOOM UP SN · LOWER BOOM DOWN SK · UPPER BOOM UP SL · UPPER BOOM DOWN SJ · SLEW LEFT SM · SLEW RIGHT SR · TELE OUT SQ · TELE IN SK

GROUND · +Ve · C# DRV · C# UP · C# DWN · SwSW · Sw ANL · J1A · J1B · J2A · J2B · J3A · J3B · J4A · J4B · STRWL · STRWR · Tm REV · Tm FWD · J1 NEU · J1 SIG · J2 NEU · J2 SIG · J3 NEU · J3 SIG · J4 NEU · J4 SIG

FOOT SWITCH FA 42002-0311 · 2 CORE · 2 CORE 1.5mm2

PROX. SWITCH(42014-0131) · PROX. SWITCH(42014-0131) · RELAY RU · RELAY RV · LINEAR ACTUATOR MOTOR 42014-0130

NOTE: EARTH TERMINALS ARE 'LOOPED' AT SOLENOIDS

12-CORE

TELE BOOM RETRACT S9 · UPPER BOOM DOWN S5 · LOWER BOOM DOWN S7 · CAGE LEVEL BACK S13 · SLEW RIGHT S11

TELE BOOM EXTEND S10 · UPPER BOOM UP S6 · LOWER BOOM UP S8 · CAGE LEVEL FOWARD S14 · SLEW LEFT S12

31029-0013

UPPER BOOM 42001-0144 SW3 · LOWER BOOM 42002-0144 SW4 · SLEW 42004-0144 SW1 · TELE BOOM 42002-0144 SW2

FIT BARRELL ADAPTOR TO PREVENT KEY REMOVAL WHEN SWITCHED TO UPPER CONTROLS · KEYSWITCH 42002-0324

E.STOP(42002-0074) · 0 :ALL CONTACTS OPEN · I :1&2 CLOSED, 3&4 OPEN · II :1&2 OPEN, 3&4 CLOSED

REV. No.	0	DATE	JAN'97				
MOD. No.	14173						

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SIMON-AERIALS LTD.

PROJECTION

TITLE: SP120E USA M/C 1997 WIRING CIRCUIT

DRAWN	APPROVED	DATE	SCALE	MODEL
PM		JAN'97		SP120E

MATERIAL SPEC. · WEIGHT · DIVISION

DRG. No. 22000-0475 · REV. 00