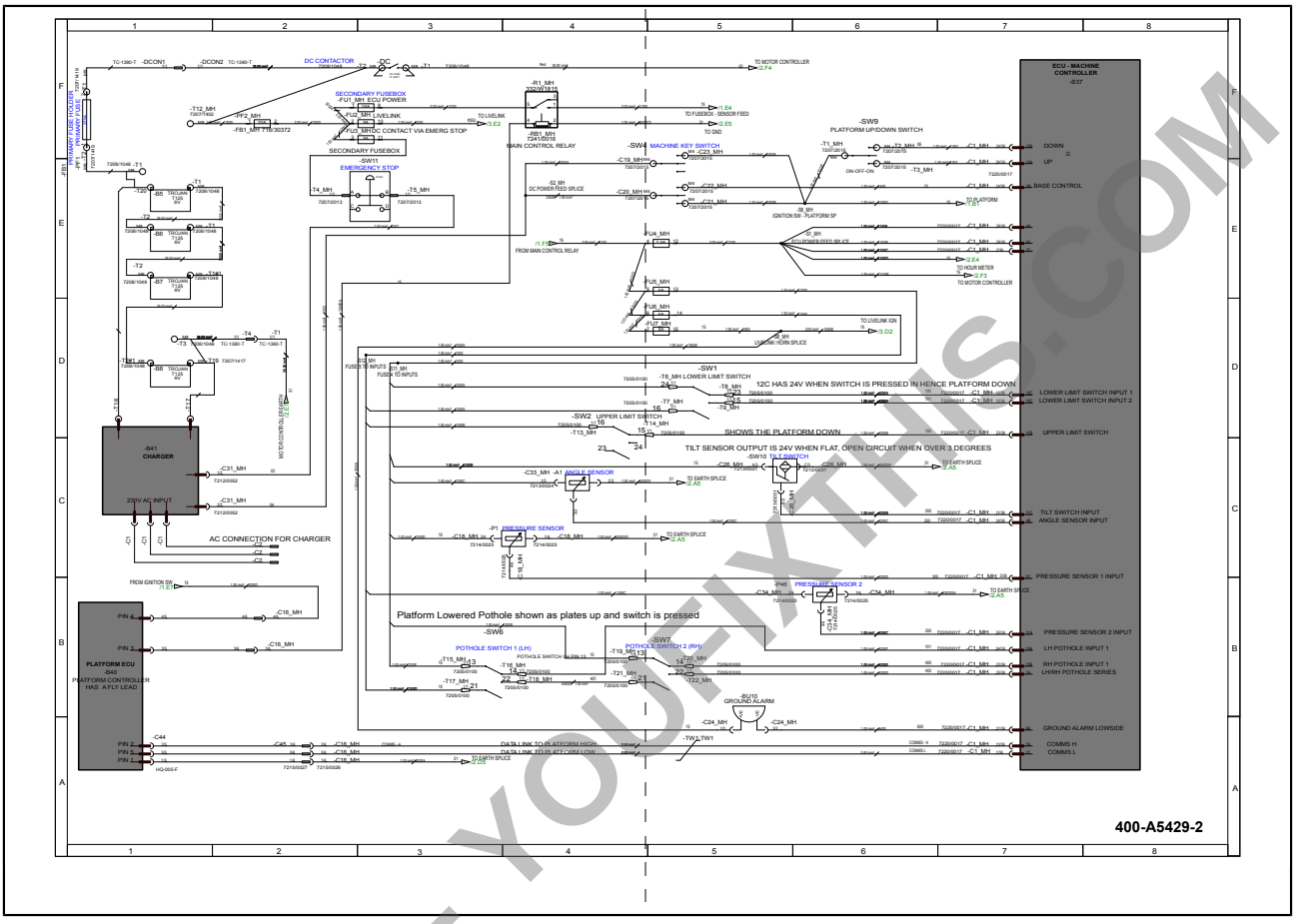
Page 33-18

Figure 110. 400/A5429 (Sheet 1 of 4) - Battery charger, MECU, platform control ECU

Page 33-19



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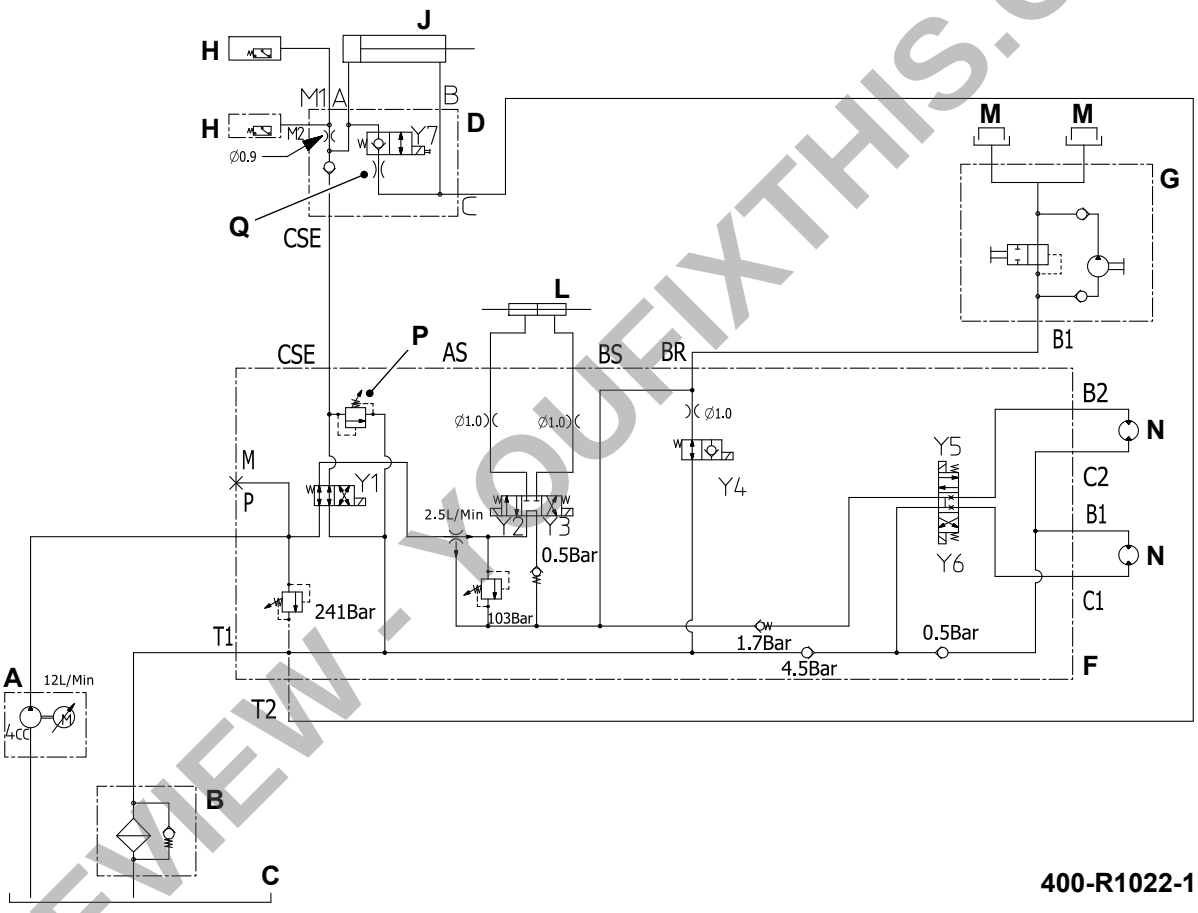
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Diagram

For: S1530E, S1930E ..... Page 30-18
For: S2032E, S2046E, S2632E, S2646E
..... Page 30-19
For: S3246E, S4046E ..... Page 30-20
For: S4550E ..... Page 30-21

(For: S1530E, S1930E)

Figure 76. Hydraulic schematic - 400/R1022 (Sheet 1 of 1)



400-R1022-1

A Hydraulic pump
B Hydraulic return oil filter
C Hydraulic tank
D Lower lift cylinder control valve
F Main control valve
G Manual brake release valve
H Pressure sensor
J Lower lift cylinder ram
L Steering cylinder ram
M Brake
N Wheel drive motor
P Lift ARV (Auxiliary Relief Valve)
Q Lowering restrictor

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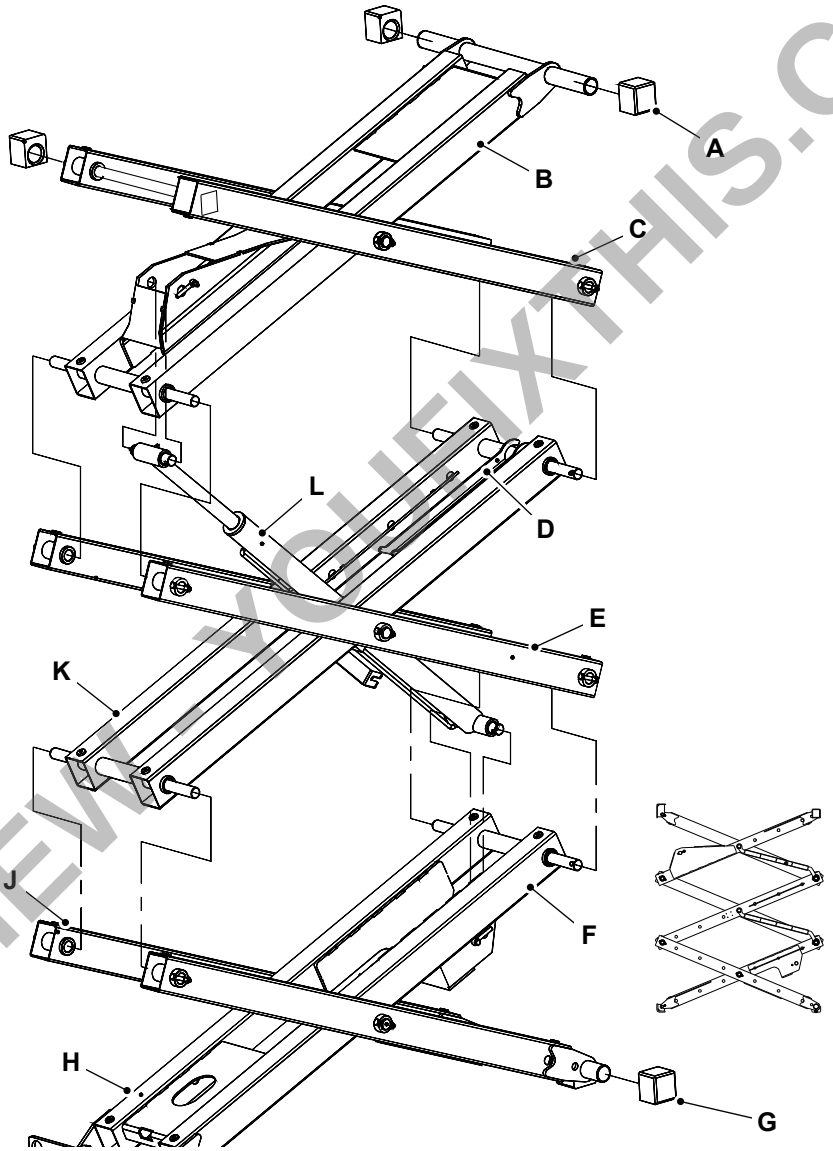
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Component Identification

For: Single Cylinder ..... Page 06-11
For: Double Cylinder ..... Page 06-12

(For: Single Cylinder)

Figure 19.



A Top slider block (x4)
B Inner arm 3
C Outer arm 3
D Safety strut
E Outer arm 2
F Inner arm 1
G Bottom slider block (x2)
H Inner arm 1
J Outer arm 1
K Inner arm 2
L Lift cylinder

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Technical Data

From JCB standard STD00019 issue 15.

1. This information does not apply to:-
   1.1. Hydraulic fittings (i.e. BSP, SAE O-ring boss, UNF, four bolt split flange and JIC).
   1.2. Locking type fasteners (those with a nylon insert, or with distorted thread nuts such as Cleveloc).
2. For information on fastener conditions, refer to fasteners and fixings, bolts, general, introduction.

Table 99. Torque Settings - UNF S Fasteners

Bolt Size	Treads per Inch	Hexagon (A/F)	Condition 1	Condition 2
in	in	in	N·m	N·m
(1/4 in)	28	7/16	11.2	10
(5/16 in)	24	1/2	22.3	20
(3/8 in)	24	9/16	40	36
(7/16 in)	20	5/8	64	57
(1/2 in)	20	3/4	98	88
(9/16 in)	18	13/16	140	126
(5/8 in)	18	15/16	196	177
(3/4 in)	16	1 1/8	343	309
(7/8 in)	14	1 15/16	547	492
(1 in)	12	1 1/2	814	732
(1 1/8 in)	12	1 7/8	1,181	1,063
(1 1/4 in)	12	2 1/4	1,646	1,481

Table 100. Torque Settings - UNF X Fasteners

Bolt Size	Treads per Inch	Hexagon (A/F)	Condition 1	Condition 2
in	in	in	N·m	N·m
(1/4 in)	28	7/16	17.6	15.9
(5/16 in)	24	1/2	35.2	31.6
(3/8 in)	24	9/16	64	57
(7/16 in)	20	5/8	101	91
(1/2 in)	20	3/4	155	139
(9/16 in)	18	13/16	221	199
(5/8 in)	18	15/16	310	279
(3/4 in)	16	1 1/8	542	488
(7/8 in)	14	1 15/16	864	777
(1 in)	12	1 1/2	1,285	1,156
(1 1/8 in)	12	1 7/8	1,865	1,679
(1 1/4 in)	12	2 1/4	2,598	2,339

Table 101. Torque Settings - Coarse Metric Grade 8.8 Fasteners

Bolt Size	Tread Pitch	Hexagon (A/F)	Condition 1	Condition 2
mm	mm	mm	N·m	N·m
4	0.7	7	2.9	2.6
5	0.8	8	5.8	5.2
6	1	10	9.9	9
8	1.25	13	24	22
10	1.5	17	47	43
12	1.75	19	83	74
14	2	22	132	119
16	2	24	205	184
20	2.5	30	400	360
24	3	36	690	621
30	3.5	46	1,372	1,235
36	4	55	2,399	2,159

Table 102. Torque Settings - Coarse Metric Grade 10.9 Fasteners

Bolt Size	Thread Pitch	Hexagon (A/F)	Condition 1	Condition 2
mm	mm	mm	N·m	N·m
4	0.7	7	4	3.6
5	0.8	8	8.1	7.3
6	1	10	13.9	12.5
8	1.25	13	34	30
10	1.5	17	67	60
12	1.75	19	116	104
14	2	22	185	167
16	2	24	288	259
20	2.5	30	562	506
24	3	36	971	874
30	3.5	46	1,930	1,737
36	4	55	3,374	3,036

Table 103. Torque Settings - Coarse Metric Grade 12.9 Fasteners

Bolt Size	Thread Pitch	Hexagon (A/F)	Condition 1	Condition 2
mm	mm	mm	N·m	N·m
4	0.7	7	4.8	4.4
5	0.8	8	9.8	8.8
6	1	10	16.6	15
8	1.25	13	40	36
10	1.5	17	80	72
12	1.75	19	139	125
14	2	22	223	200
16	2	24	345	311

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Technical Data

Diagnostic Trouble Codes (DTC)

Error codes can be displayed on platform control display as well as on the ground control display.

When an alarm sounds the relevant error code will be displayed on the display.

Table 89.

Display	Description	Lift Reaction	Operator Instructions
01	System initialization fault	Disables all motion	Restart the machine
02	System communication Fault	Disables all motion	Restart the machine
03	Invalid option setting Fault	Disables all motion	Restart the machine
04	Load sensing data fault	Warning only	Contact JCB Dealer
12	Chassis up or down switch ON at power-up fault	Disables chassis control	Contact JCB Dealer
18	Pothole guard fault	Disable lifting and driving	Check the pothole protection plates have fully deployed
31	Pressure sensor 1 fault	Disables all motion	Contact JCB Dealer
32	Angle sensor fault	Disables all motion	Restart the machine
36	Limp mode	Lift slow to elevated speed	Check the batteries are fully charged
42	Platform left turn switch ON at power-up message	Diagnostic message only	Contact JCB Dealer
43	Platform right turn switch ON at power-up message	Diagnostic message only	Contact JCB Dealer
46	Platform joystick enable Switch ON at power-up fault	Disables platform control	Contact JCB Dealer
47	Platform joystick not in neutral at power-up message	Diagnostic message only	Restart the machine
52	Drive forward coil fault	Disables lifting and driving	Check that no controls are operated at start-up
53	Drive reverse coil fault	Disables lifting and driving	Contact JCB Dealer
54	Lift Up coil fault	Disables lifting and driving	Contact JCB Dealer
55	Lift Down coil fault	Disables lifting and driving	Contact JCB Dealer
56	Right Turn coil fault	Disable lifting and driving	Contact JCB Dealer
57	Left Turn Coil fault	Disables lifting and driving	Contact JCB Dealer
58	General brake coil fault	Disable lifting and driving	Contact JCB Dealer
59	Parallel coil fault	Disables lifting and driving	Contact JCB Dealer
60	Motor controller wiring Broken	Disable lifting and driving	Contact JCB Dealer
61	MC eeprom fault	Disables lifting and driving	Restart the machine
62	MC mosfet short fault	Disable lifting and driving	Contact JCB Dealer
64	MC Wiring fault	Disables lifting and driving	Contact JCB Dealer
68	Battery low voltage Fault	Disable all motion	Check the batteries are fully charged
69	MC throttle fault	Disables lifting and driving	Contact JCB Dealer
70	MC Main contactor Coil Short	Disable lifting and driving	Contact JCB Dealer
71	MC Main contactor Weld Fault	Disables lifting and driving	Restart the machine
72	MC main contactor driver fault	Disable lifting and driving	Contact JCB Dealer
77	MC over temperature cutoff	Disables lifting and driving	Contact JCB Dealer
80	Over 80% load warning	Warning only	Check the platform load
85	Pressure sensor 2 fault	Disables all motion	Contact JCB Dealer
86	Down limit switch fault	Disable all motion	Restart the machine

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27 - Maintenance Positions

Introduction

Make the machine safe before you start a maintenance procedure.

1. Park the machine on level, solid (slabbed/paved) ground.
2. Remove the machine key switch.
3. Disconnect the battery to prevent accidental operation.
4. Put the chocks on the side of all wheels.

Maintenance Position- Platform Raised

⚠ **WARNING** If a second person is involved with the operation ensure that the machine controls are not operated whilst they are in the working envelope of the machine and attachment, otherwise the other person could be killed or injured if a control is moved accidentally.

Make sure that the safety strut is installed before performing the maintenance task on raised platform.

When installing the upper safety strut always maintain three points of contact with ladder and scissor end bar. Use scissor end bar as handrails.

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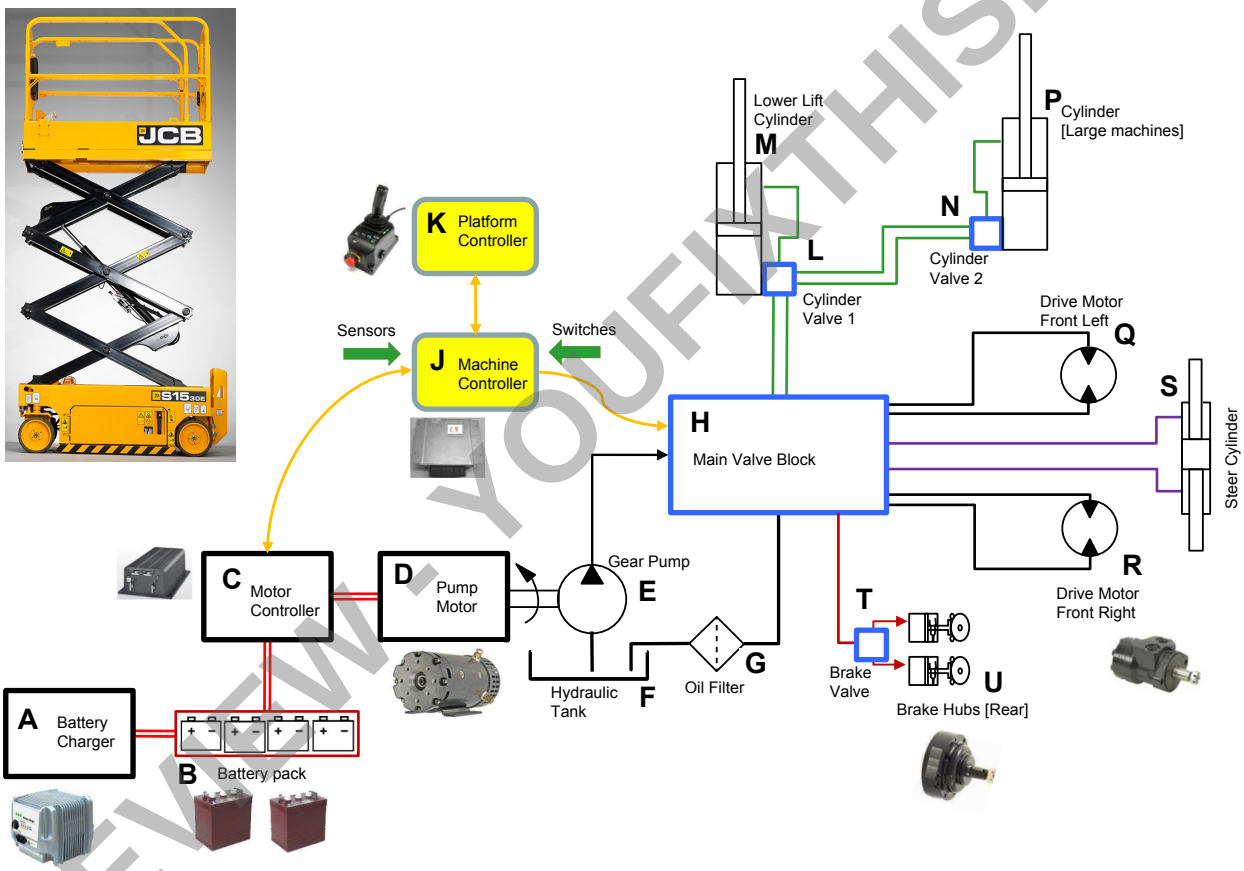
Diagram

For: S1530E, S1930E, S2032E, S2046E, S2632E, S2646E, S3246E, S4046E, S4550E, Lead Acid Battery ..... Page 33-7

For: S1530E, S1930E, S2032E, S2046E, S2646E, Lithium Iron Phosphate Battery ..... Page 33-8

(For: S1530E, S1930E, S2032E, S2046E, S2632E, S2646E, S3246E, S4046E, S4550E, Lead Acid Battery)

Figure 106. Typical Machine



A Battery charger
B Battery pack
C Motor controller ECU (Electronic Control Unit)
D Pump motor
E Gear pump
F Hydraulic tank
G Oil filter
H Main control valve block
J MECU (Machine Electronic Control Unit)
K Platform ECU
L Lower lift cylinder flow control valve
M Lower scissor arm ram
N Upper lift cylinder flow control valve (For large machines only)
P Upper scissor arm ram (For large machines only)
Q Left side drive motor (On front wheels only)
R Right side drive motor (On front wheels only)
S Steer cylinder ram
T Brake valve
U Park brake unit (On rear wheels only)

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Fault-Finding

For: S1530E, S1930E, S2032E, S2046E, S2632E, S2646E, S3246E, S4046E, S4550E, Lead Acid Battery ..... Page 33-9

For: S1530E, S1930E, S2032E, S2046E, S2646E, Lithium Iron Phosphate Battery ..... Page 33-9

(For: S1530E, S1930E, S2032E, S2046E, S2632E, S2646E, S3246E, S4046E, S4550E, Lead Acid Battery)

Fault

Battery fault — Table 59. — Page 33-9
General Relay Fault — Table 60. — Page 33-9
Electrical Wiring — Table 61. — Page 33-9

Table 59. Battery fault

Cause	Remedy
Battery Voltage	Switch on the ignition key and check the battery voltage with a multimeter. If the battery voltage is below specified value, charge the batteries. Refer to: PIL 33-03-00.
Battery connection fault	Check the condition of the electrical wires to the battery.
	Check for signs of corrosion or contamination on the battery terminals. Clean the battery terminals. Repair as necessary.
Battery charge circuit fault	Make sure that the AC (Alternating Current) supply to the battery charger is ON. Check the connections to the battery charger.
	If no fault is found raise a Techweb Helpdesk call.

Table 60. General Relay Fault

Cause	Remedy
Relay supply voltage fault	Check the condition of the primary and secondary fuses.
	If relay supply voltage is found fault, proceed to 'Relay connection faulty'.
	If relay supply voltage is OK, raise Techweb Helpdesk Call.
Relay connection faulty	Check the condition of relay to harness connection.
	Repair/replace as necessary.

Table 61. Electrical Wiring

Cause	Remedy
Wiring fault	Check the harness continuity and electrical insulation, repair or replace as necessary.

(For: S1530E, S1930E, S2032E, S2046E, S2646E, Lithium Iron Phosphate Battery)

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00 - General

Technical Data

For: S1530E ..... Page 01-19
For: S1930E ..... Page 01-20
For: S2032E ..... Page 01-21
For: S2046E ..... Page 01-22
For: S2632E ..... Page 01-23
For: S2646E ..... Page 01-24
For: S3246E ..... Page 01-25
For: S4046E ..... Page 01-26
For: S4550E ..... Page 01-27

(For: S1530E)

Below mentioned technical data is applicable for fully charged machines at ambient temperature, 10–30°C (50.0–86.0°F).

Table 4.

Description	Data
Maximum platform height	4.6m
Maximum working height	6.6m
Extension outreach	0.9m
Overall length (stowed)	1.78m
Overall width (stowed)	0.76m
Overall height (stowed, guardrail folded)	1.84m
Overall height (stowed, guardrail unfolded)	2.11m
Overall weight	1,330kg
Platform size (L x W x H)	1.64m x 0.76m x 1.1m
Load capacity	280kg
Maximum platform occupants (outdoor)	1
Maximum platform occupants (indoor)	2
Maximum allowable side force (indoor)	400N
Maximum allowable side force (outdoor)	200N
Maximum allowable wind speed (outdoor)	12.5m/s
Maximum allowable slope (front/back)	3°
Maximum allowable slope (side/side)	1.5°
Ground clearance (raised)	0.07m
Wheelbase	1.33m
Turning radius (outside)	1.49m
Turning radius (inside)	0.04m
Gradeability	30%
Maximum driving speed, Hare mode (Platform stowed)[1]	3km/h (1.9mph), 12 ± 1s to travel 10m
Maximum driving speed, Tortoise mode (Platform stowed)[1]	1.8km/h (1.1mph), 21 ± 2s to travel 10m
Maximum driving speed (Platform raised)[1, 2]	0.8km/h (0.5mph), 45 ± 4s to travel 10m
Platform raising time (loaded)	15–20s
Platform raising time (no load)	19 ± 2s

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Calibrate

Machine Override Setting

It may become necessary to override certain safety features to recover a faulty machine, or to carry out some of the machine tests, such as the overload test. The different machine override settings are given below. Refer to Table 85.

After operating the machine in an override mode, one machine key off cycle will return the machine to the default operating condition.

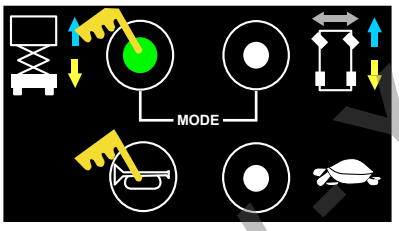
1. Make the machine safe.

   Refer to: PIL 01-03-27.

2. Press platform Emergency Stop IN. Pull Ground Emergency Stop OUT. Turn key switch to ON (either platform or chassis control).

3. Press and hold the lift mode button and horn button simultaneously, while pulling the emergency stop button to select the machine option adjustment. Refer to Figure 189.

Figure 189.



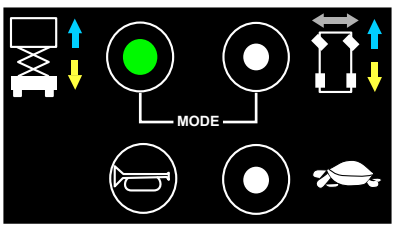
4. The parameter settings and elevated speed will alternatively flash on the display. Refer to Figure 190.

Figure 190.



5. Release the lift mode button and horn button simultaneously. Refer to Figure 191.

Figure 191.



6. The parameter setting will change to lift speed. Refer to Figure 192.

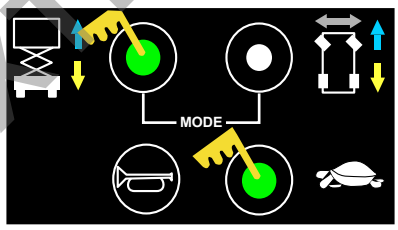
Figure 192.



7. Press and hold the lift mode button and low speed button for specified duration, or until 'SC' appears on display, to enter the machine option selection mode. Refer to Figure 193.

   Duration: 3s

Figure 193.



8. When you select the machine option selection mode SC will display. Refer to Figure 194.

Figure 194.

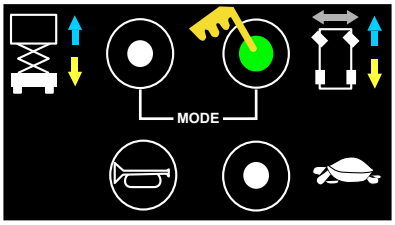


   8.1. Release the lift mode button and low speed button.

   8.2. The current machine operating mode will be displayed. The default setting is 27.

9. Momentarily press the drive button to edit the right side digit. Refer to Figure 195.

Figure 195.



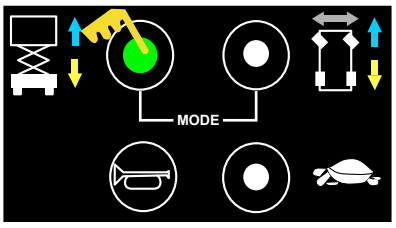
   9.1. The digit will flash on the display.

10. Momentarily press the lift mode button to edit the left side digit. Refer to Figure 196.

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Figure 196.



10.1. The digit will flash on the display.

11. The button on the top of the joystick decreases (LEFT turn button) or increases (Right turn button) the flashing digit. Refer to Figure 197.

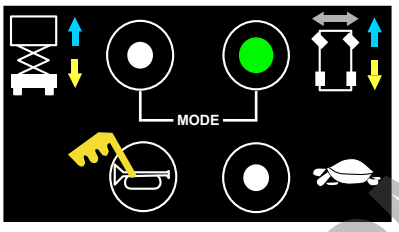
Figure 197.



12. Press and hold the horn button for the specified time to save the changes. Refer to Figure 198.

    Duration: 3s

Figure 198.



13. Press the platform emergency stop or the machine key switch to turn off the power.

14. Pull out the platform emergency stop or machine key switch to turn on the power to operate the machine with new values. Refer to Figure 199.

Figure 199.

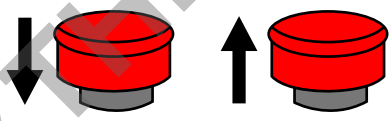


Table 85.

Machine Mode	Override Mode	Description	Operation
27	None	Default mode - normal operation	For normal operation of the machine with full diagnostics on.
26	Load sense override	Override fault alarms from the override system	For operations which require overriding the overload system, functional tests with 110% and structural load test with 125% load.

Note that the machine will operate in the new machine options state for one cycle of the machine OFF/ON. After cycling OFF/ON a second time, the machine will return to its default options state.

Change the Machine Function Speeds

It may be dangerous to increase the machine function speeds. It is not recommended to increase the machine operating speeds.

It may be necessary to adjust the machine function speeds if the recorded speeds are different to the specified machine speed, because of wear or to slow down a machine for operator comfort. The correct machine operating speed are given in Machine, Description, Technical Data. Refer to: PIL 01-09-00.

Table 86. Machine function settings

	S1530E	S1930E	S2032E	S2046E	S2632E	S2646E	S3246E	S4046E	S4550E
Drive fast	100	100	100	100	100	100	100	100	100
Drive slow	58	58	77	80	77	80	83	95	95
Drive raised	33	33	30	30	30	30	30	31	30
Lift	55	60	83	82	75	82	85	85	87

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06 - Pre-start Cold Checks, Service Points and Fluid Levels

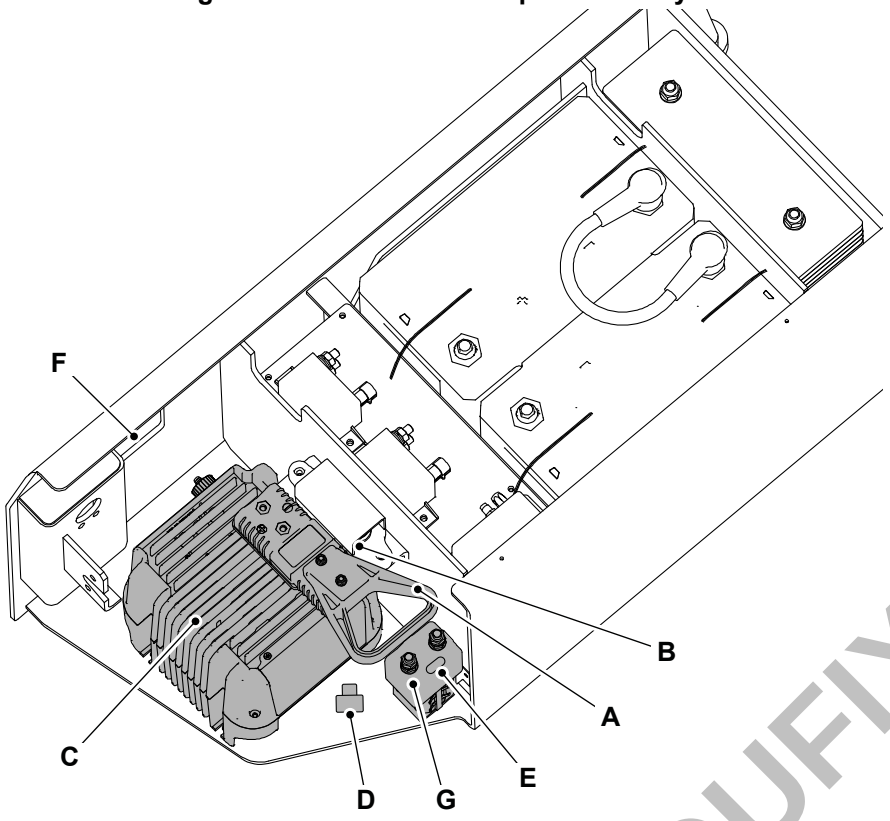
Introduction

Table 120.

Component	Task	Daily	Weekly	Monthly	3 Months	6 Months	Yearly	18 Months	2 Years
Operator's Manual	Check (condition)	O	O	□	□	□	□	□	□
Safety Labels	Check (condition)	O	O	□	□	□	□	□	□
Hydraulic hoses	Check (condition)	O	O	□	□	□	□	□	□
Hydraulic oil	Check (level)	O	O	□	□	□	□	□	□
Hydraulic oil	Check (leaks)	O	O	□	□	□	□	□	□
Hydraulic oil	Replace								□
Hydraulic return filter	Replace						□	□	□
Vent filter - hydraulic tank	Replace					□	□	□	□
Battery electrolyte (lead acid batteries)	Check (level)	O	O	□	□	□	□	□	□
Battery electrolyte (lead acid batteries)	Check (leaks)	O	O	□	□	□	□	□	□
Electric wire	Check (condition)	O	O	□	□	□	□	□	□
Welds	Check (condition)	O	O	□	□	□	□	□	□
Machine damage, missing parts	Check (condition)	O	O	□	□	□	□	□	□
Fasteners	Check (condition)	O	O	□	□	□	□	□	□
Lateral guard rail	Check (condition)	O	O	□	□	□	□	□	□
Chassis sliders	Check (condition)							□	□
Wheel rim and tyre	Check (condition)			□	□	□	□	□	□
Lift ram(s)	Grease				□	□	□	□	□
Steer pivots	Grease				□	□	□	□	□
Scissor base slider	Grease			□	□	□	□	□	□
Scissor basket slider	Grease				□	□	□	□	□
Wheel nut split pin	Check (condition)	O	O	□	□	□	□	□	□

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Figure 7. Lithium Iron Phosphate Battery



A Battery isolator
B Primary fuses (275A rating)
C Battery Charger
D Primary fuse (20A rating)
E DC contactor resistor
F Battery charger status sight hole
G DC contactor

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03 - Parts List

Introduction

Consumables

Description	Part No.	Size
EP Hammer Grease	4003/2107	0.4kg
	4003/2106	12.5kg
Extreme Performance Moly Grease	4003/1327	0.4kg
	4003/1326	12.5kg
JCB Autogrease	4003/2305	0.5kg
Special HP Grease	4003/2017	0.4kg
	4003/2006	12.5kg
	4003/2005	50kg
Special Hammer Grease	4003/1119	0.4kg
Special MPL-EP Grease	4003/1501	0.4kg
	4003/1506	12.5kg
	4003/1510	50kg
Special Slew Pinion Grease	4003/1619	0.4kg
Special Slide Grease	4003/1115	0.4kg
Surface Cleaning Fluid	4103/1204	1L
Wiring Splice (0.5-1.5mm Red, contains 50 off)	892/00351	-
Wiring Splice (1.5-2.5mm Blue, contains 50 off)	892/00352	-
Wiring Splice (3-6mm Yellow, contains 50 off)	892/00353	-
Wiring Splice-Bootlace (1mm Red)	7205/0100	-
Wiring Splice-Bootlace (2.5mm Grey)	7205/0250	-

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03 - Safety - Yours and Others

Introduction

All machinery can be hazardous. When a machine is correctly operated and maintained, it is a safe machine to work with. When it is carelessly operated or poorly maintained it can become a danger to you (the operator) and others.

In this manual and on the machine you will find warning messages, read and understand them. They inform you of potential hazards and how to avoid them. If you do not fully understand the warning messages, ask your employer or JCB dealer to explain them.

Safety is not just a matter of responding to the warnings. All the time you are working on or with the machine you must be thinking of what hazards there might be and how to avoid them.

Do not work with the machine until you are sure that you can control it.

Do not start any work until you are sure that you and those around you will be safe.

If you are not sure of anything, about the machine or the work, ask someone who knows. Do not assume anything.

Remember:

- Be careful
- Be alert
- Be safe.

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Notes:

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06 - Body and Framework

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Introduction

The platform is mounted on top of the lift or scissor arm. The platform consists of the following parts:

- Gate.
- Guardrail.
- Main platform.
- Platform extension.

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00 - General

Introduction

The wheel and tyre assemblies are a complete unit.
Refer to: PIL 27-29-00.

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(For: S4046E, S4550E)

Figure 118. 400/A5457 (Sheet 1 of 4) - Battery charger, MECU, platform control ECU..... Page 33-37
Figure 119. 400/A5457 (Sheet 2 of 4) - MECU, motor controller ECU.....Page 33-41

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Introduction

Harness Drawings

Drawings are reproduced from production electrical harness drawings. Each harness drawing includes tables showing wire connections and destinations for all the connectors on the harness. To identify the correct harness drawing for a particular machine refer to the relevant Harness Interconnection page for the machine serial number range.

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Figure 179. 400/H2879 (Sheet 3 of 3)

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-RB1_MH MAIN CONTROL RELAY

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	1100	2.00 mm²	YE	-FB2_MH:4	-W1	
2	6000CD	1.00 mm²	YE	-S10_MH:S	-W1	
3						
4	10000A	1.00 mm²	YE	-C16_MH:3	-W1	
5	3100	2.00 mm²	YE	-FB2_MH:9	-W1	

7241/0016 5 Way Mini Relay Base (BOSCH/TYCO)
Additional Components

-T1_MH PLATFORM CONTROL (INPUT)

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	1000C	1.00 mm²	YE	-S6_MH:S	-W1	

7207/2015 Ring Terminal M4 0.75-1.25MM2
Additional Components

-T2_MH PLATFORM CONTROL (DOWN)

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	1001	1.00 mm²	YE	-C1_MH:24	-W1	

7207/2015 Ring Terminal M4 0.75-1.25MM2
Additional Components

-T3_MH PLATFORM CONTROL (UP)

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	1002	1.00 mm²	YE	-C1_MH:36	-W1	

7207/2015 Ring Terminal M4 0.75-1.25MM2
Additional Components

-T4_MH EMERGENCY STOP +VE INPUT

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	3300	1.00 mm²	YE	-FB2_MH:11	-W1	

7207/2013 0.3-1.0MM2 Fork Term
Additional Components

-T5_MH EMERGENCY STOP +VE OUTPUT

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	3301	1.00 mm²	YE	-C31_MH:1	-W1	

7207/2013 0.3-1.0MM2 Fork Term
Additional Components

-T6_MH LOWER LIMIT PIN 24

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	1205A	1.00 mm²	YE	-S11_MH:S	-W1	

7205/0100 1.0mm2 Red Bootlace Ferrule
Additional Components

-T7_MH LOWER LIMIT PIN 16

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	1300A	1.00 mm²	YE	-S12_MH:S	-W1	

7205/0100 1.0mm2 Red Bootlace Ferrule
Additional Components

-T8_MH LOWER LIMIT PIN 23

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	4200A	1.00 mm²	YE	-C1_MH:12	-W1	

7205/0100 1.0mm2 Red Bootlace Ferrule
Additional Components

-T9_MH LOWER LIMIT PIN 15

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	4300A	1.00 mm²	YE	-C1_MH:10	-W1	

7205/0100 1.0mm2 Red Bootlace Ferrule
Additional Components

-T10_MH HARN EARTH -MOTOR CTRL B-

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	6000	2.00 mm²	YE	-S13_MH:S	-W1	

7207/2014 Ring Terminal M8 1.00-2.00mm2
Additional Components

-T12_MH DC CONTACTOR PERM SIDE

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	2000	3.00 mm²	YE	-FB1_MH:1	-W1	

7207/1402 Ring Terminal M8 2.5-6.0
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-T13_MH UPPER LIMIT PIN 16

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	1300B	1.00 mm²	YE	-S12_MH:S	-W1	

7205/0100 1.0mm2 Red Bootlace Ferrule
Additional Components

-T14_MH UPPER LIMIT PIN 15

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	4300B	1.00 mm²	YE	-C1_MH:23	-W1	

7205/0100 1.0mm2 Red Bootlace Ferrule
Additional Components

-T15_MH POTHOLE SWITCH LH PIN 13

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	1200F	1.00 mm²	YE	-S11_MH:S	-W1	

7205/0100 1.0mm2 Red Bootlace Ferrule
Additional Components

-T16_MH POTHOLE SWITCH LH PIN 14

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	4200F	1.00 mm²	YE	-C1_MH:34	-W1	

7205/0100 1.0mm2 Red Bootlace Ferrule
Additional Components

-T17_MH POTHOLE SWITCH LH PIN 21

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	1300D	1.00 mm²	YE	-S12_MH:S	-W1	

7205/0100 1.0mm2 Red Bootlace Ferrule
Additional Components

-T18_MH POTHOLE SWITCH LH PIN 22

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	4030D	1.00 mm²	YE	-T21_MH:1	-W1	

7205/0100 1.0mm2 Red Bootlace Ferrule
Additional Components

-T19_MH POTHOLE SWITCH RH PIN 13

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	1200E	1.00 mm²	YE	-S11_MH:S	-W1	

7205/0100 1.0mm2 Red Bootlace Ferrule
Additional Components

-T20_MH POTHOLE SWITCH RH PIN 14

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	4200E	1.00 mm²	YE	-C1_MH:22	-W1	

7205/0100 1.0mm2 Red Bootlace Ferrule
Additional Components

-T21_MH POTHOLE SWITCH RH PIN 21

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	4030D	1.00 mm²	YE	-T18_MH:1	-W1	

7205/0100 1.0mm2 Red Bootlace Ferrule
Additional Components

-T22_MH POTHOLE SWITCH RH PIN 22

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
1	4300D	1.00 mm²	YE	-C1_MH:25	-W1	

7205/0100 1.0mm2 Red Bootlace Ferrule
Additional Components

-S1_MH ECU POWER FEED SPLICE

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	1100D	1.00 mm²	YE	-C12_MH:1	-W1	
S	1100C	1.00 mm²	YE	-C1_MH:2	-W1	
S	1100A	1.00 mm²	YE	-C1_MH:28	-W1	
S	1100B	1.00 mm²	YE	-C1_MH:29	-W1	
S	1100E	1.00 mm²	YE	-C28_MH:1	-W1	
S	1100	2.00 mm²	YE	-FB2_MH:12	-W1	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S2_MH DC POWER FEED SPLICE

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	3302A	1.00 mm²	YE	-C19_MH:1	-W1	
S	3302B	1.00 mm²	YE	-C20_MH:1	-W1	
S	3302	1.00 mm²	YE	-C31_MH:2	-W1	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S3_MH CONTOLS ENABLE-HOUR METER

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	8600B	1.00 mm²	YE	-C13_MH:1	-W1	
S	8600	1.00 mm²	YE	-C1_MH:32	-W1	
S	8600A	1.00 mm²	YE	-C36_MH:1	-W1	
S	8600C	0.75 mm²	YE	-C46_MH:3	-W1	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S4_MH EARTH SPLICE

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	6300DIH	1.00 mm²	YE	-C34_MH:1	-W1	
S	6200DIF	1.00 mm²	YE	-C26_MH:C	-W1	
S	6000DC	1.00 mm²	YE	-C7_MH:2	-W1	
S	6000DA	1.00 mm²	YE	-C2_MH:2	-W1	
S	6000DB	1.00 mm²	YE	-C5_MH:2	-W1	
S	6200DIG	1.00 mm²	YE	-C18_MH:1	-W1	
S	6200DI	1.00 mm²	YE	-C33_MH:2	-W1	
S	6000DIE	1.00 mm²	YE	-C46_MH:4	-W1	
S	6000DI	2.00 mm²	YE	-S13_MH:S	-W1	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S5_MH FLASHING LIGHTS SPLICE

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	8500A	1.00 mm²	YE	-C2_MH:1	-W1	
S	8500B	1.00 mm²	YE	-C3_MH:1	-W1	
S	8500	1.00 mm²	YE	-C1_MH:27	-W1	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S6_MH IGNITION SW - PLATFORM SP

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	1000B	1.00 mm²	YE	-C21_MH:1	-W1	
S	1000C	1.00 mm²	YE	-T1_MH:1	-W1	
S	1000D	1.00 mm²	YE	-C16_MH:4	-W1	
S	1000A	1.00 mm²	YE	-C23_MH:1	-W1	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S8_MH LIVELINK/ HORN SPLICE

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	1500	1.00 mm²	YE	-FB2_MH:15	-W1	
S	1500A	1.00 mm²	YE	-C24_MH:1	-W1	
S	1500B	2.00 mm²	YE	-C46_MH:2	-W1	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S9_MH

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	6000DC	1.00 mm²	YE	-C9_MH:2	-W1	
S	6000DG	1.00 mm²	YE	-C10_MH:1	-W1	
S	6000DH	1.00 mm²	YE	-C11_MH:2	-W1	
S	6000DA	1.00 mm²	YE	-C8_MH:2	-W1	
S	6000DB	1.00 mm²	YE	-C6_MH:2	-W1	
S	6000DF	1.00 mm²	YE	-C44_MH:2	-W1	
S	6000D	2.00 mm²	YE	-S13_MH:S	-W1	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S10_MH

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	6000CB	1.00 mm²	YE	-C14_MH:1	-W1	
S	6000CA	1.00 mm²	YE	-C5_MH:1	-W1	
S	6000CD	1.00 mm²	YE	-RB1_MH:2	-W1	
S	6000CC	1.00 mm²	YE	-C1_MH:15	-W1	
S	6000C	2.00 mm²	YE	-S13_MH:S	-W1	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S11_MH FUSE 4 TO INPUTS

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	1200F	1.00 mm²	YE	-T15_MH:1	-W1	
S	1200	1.00 mm²	YE	-FB2_MH:13	-W1	
S	1200E	1.00 mm²	YE	-T12_MH:1	-W1	
S	1200A	1.00 mm²	YE	-T6_MH:1	-W1	
S	1200B	1.00 mm²	YE	-C26_MH:A	-W1	
S	1200C	1.00 mm²	YE	-C33_MH:1	-W1	
S	1200D	1.00 mm²	YE	-C18_MH:2	-W1	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S12_MH FUSE 5 TO INPUTS

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	1300A	1.00 mm²	YE	-T7_MH:1	-W1	
S	1288B	1.00 mm²	YE	-T13_MH:1	-W1	
S	1300D	1.00 mm²	YE	-T17_MH:1	-W1	
S	1300C	1.00 mm²	YE	-C34_MH:2	-W1	
S	1300	1.00 mm²	YE	-FB2_MH:14	-W1	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S13_MH

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	6000A	1.00 mm²	YE	-C16_MH:1	-W1	
S	6000B	1.00 mm²	YE	-C43_MH:2	-W1	
S	6000	2.00 mm²	YE	-T10_MH:1	-W1	
S	6000C	2.00 mm²	YE	-S10_MH:S	-W1	
S	6000D	2.00 mm²	YE	-S9_MH:S	-W1	
S	6000DI	2.00 mm²	YE	-S4_MH:S	-W1	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

400-H2879-2

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Clean

⚠ **WARNING** You could get killed or injured if you touch the Battery positive and Battery negative terminals of the motor controller. The controller is installed with energy storing devices (capacitors). You must discharge the controller before you remove or install.

1. Obey all electrical system health and safety information.

   Refer to: PIL 33-00-00.

2. Make the machine safe.

   Refer to: PIL 01-03-27.

3. Disconnect the quick disconnect handle.

   Refer to: PIL 33-05-00.

4. Take care when handling the motor controller. The motor controller may contain a significant amount of stored electrical energy and could cause serious harm.

5. Remove any dirt or corrosion from the power and signal connector areas.

6. Clean the motor controller with a moist cloth.

7. Dry the motor controller before you connect the battery again.

8. Connect the quick disconnect handle.

   Refer to: PIL 33-05-00.

Remove and Install

⚠ **WARNING** You could get killed or injured if you touch the Battery positive and Battery negative terminals of the motor controller. The controller is installed with energy storing devices (capacitors). You must discharge the controller before you remove or install.

This component is not serviceable, if it fails replace the complete unit.

Remove

1. Obey all electrical system health and safety information.

   Refer to: PIL 33-00-00.

2. Make the machine safe.

   Refer to: PIL 01-03-27.

3. Disconnect the quick disconnect handle.

   Refer to: PIL 33-05-00.

4. Open the hydraulic compartment cover.

   Refer to: PIL 06-06-09.

5. Carefully disconnect the battery leads from the motor controller ECU (Electronic Control Unit).

   5.1. Disconnect the negative battery lead (Black) first.

   5.2. Make sure you do not touch the battery positive pin and battery negative pin of the motor controller at the same time or you could be electrocuted.

6. Support the mounting bracket.

7. Remove the locknut (x2) and bolts (x2).

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75 - Consumable Products

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