A TEREX COMPANY

Service Manual

Serial Number Range

S-80
S-85

from S80-3082
to S8004-3737

Part No. 77832
Rev D1
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SPECIFICATIONS

Hydraulic Hose and Fitting Torque Specifications

Your machine is equipped with Parker Seal-Lok® fittings and hose ends. Genie specifications require that fittings and hose ends be torqued to specification when they are removed and installed or when new hoses or fittings are installed.

SAE O-ring Boss Port
(tube fitting - installed into Aluminum)

SAE Dash size	Torque
-4	14 ft-lbs / 18.9 Nm
-6	23 ft-lbs / 31.2 Nm
-8	36 ft-lbs / 48.8 Nm
-10	62 ft-lbs / 84.1 Nm
-12	84 ft-lbs / 113.9 Nm
-16	125 ft-lbs / 169.5 Nm
-20	151 ft-lbs / 204.7 Nm
-24	184 ft-lbs / 250 Nm

SAE O-ring Boss Port
(tube fitting - installed into Steel)

SAE Dash size	Torque
-4	15 ft-lbs / 20.3 Nm
-6	35 ft-lbs / 47.5 Nm
-8	60 ft-lbs / 81.3 Nm
-10	100 ft-lbs / 135.6 Nm
-12	135 ft-lbs / 183 Nm
-16	200 ft-lbs / 271 Nm
-20	250 ft-lbs / 334 Nm
-24	305 ft-lbs / 414 Nm

Seal-Lok® fittings

1 Replace the O-ring. The O-ring must be replaced anytime the seal has been broken. The O-ring cannot be re-used if the fitting or hose end has been tightened beyond finger tight.

NOTICE The O-rings used in the Parker Seal Lok® fittings and hose ends are custom-size O-rings. They are not standard SAE size O-rings. They are available in the O-ring field service kit (Genie part number 49612).

2 Lubricate the O-ring before installation.

3 Be sure that the face seal O-ring is seated and retained properly.

4 Position the tube and nut squarely on the face seal end of the fitting and tighten the nut finger tight.

5 Tighten the nut or fitting to the appropriate torque per given size as shown in the table.

6 Operate all machine functions and inspect the hoses and fittings and related components to confirm that there are no leaks.

Seal-Lok® Fittings
(hose end)

SAE Dash size	Torque
-4	18 ft-lbs / 24.4 Nm
-6	30 ft-lbs / 40 Nm
-8	40 ft-lbs / 55 Nm
-10	60 ft-lbs / 80 Nm
-12	85 ft-lbs / 115 Nm
-16	110 ft-lbs / 150 Nm
-20	140 ft-lbs / 190 Nm
-24	180 ft-lbs / 245 Nm

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FAULT CODES

Fault Code Chart - Control System

How to Retrieve Control System Fault Codes

Note: At least one fault code is present when the alarm at the platform controls produces two short beeps every 30 seconds for 10 minutes.

Note: Perform this procedure with the engine off, the key switch turned to platform controls and the red Emergency Stop button pulled out to the on position at both the ground and platform controls.

1 Open the platform control box lid.

⚠WARNING Electrocution/burn hazard. Contact with electrically charged circuits could result in death or serious injury. Remove all rings, watches and other jewelry.

2 Locate the red and yellow fault LEDs on the ALC-500 circuit board inside the platform control box. Do not touch the circuit board.

NOTICE Component damage hazard. Electrostatic discharge (ESD) can damage printed circuit board components. If the circuit board does need to be handled, maintain firm contact with a metal part of the machine that is grounded at all times when handling the printed circuit board OR use a grounded wrist strap.

3 **Determine the error source:** The red LED indicates the error source and will flash two separate codes. The first code will indicate the first digit of the two digit code, flashing once per second. It will then pause for 1.5 seconds and flash the second digit once per 0.5 second.

Note: When the red LED is flashing the code, the yellow LED will be on solid.

4 **Determine the error type:** The yellow LED indidates the error type and will flash two separate codes. The first code will indicate the first digit of the two digit code, flashing once per second. It will then pause for 1.5 seconds and flash the second digit once per 0.5 second.

Note: When the yellow LED is flashing the code, the red LED will be on solid.

5 Use the fault code table on the following pages to aid in troubleshooting the machine by pinpointing the area or component affected.

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Platform Control Box Wiring Diagram, S-85

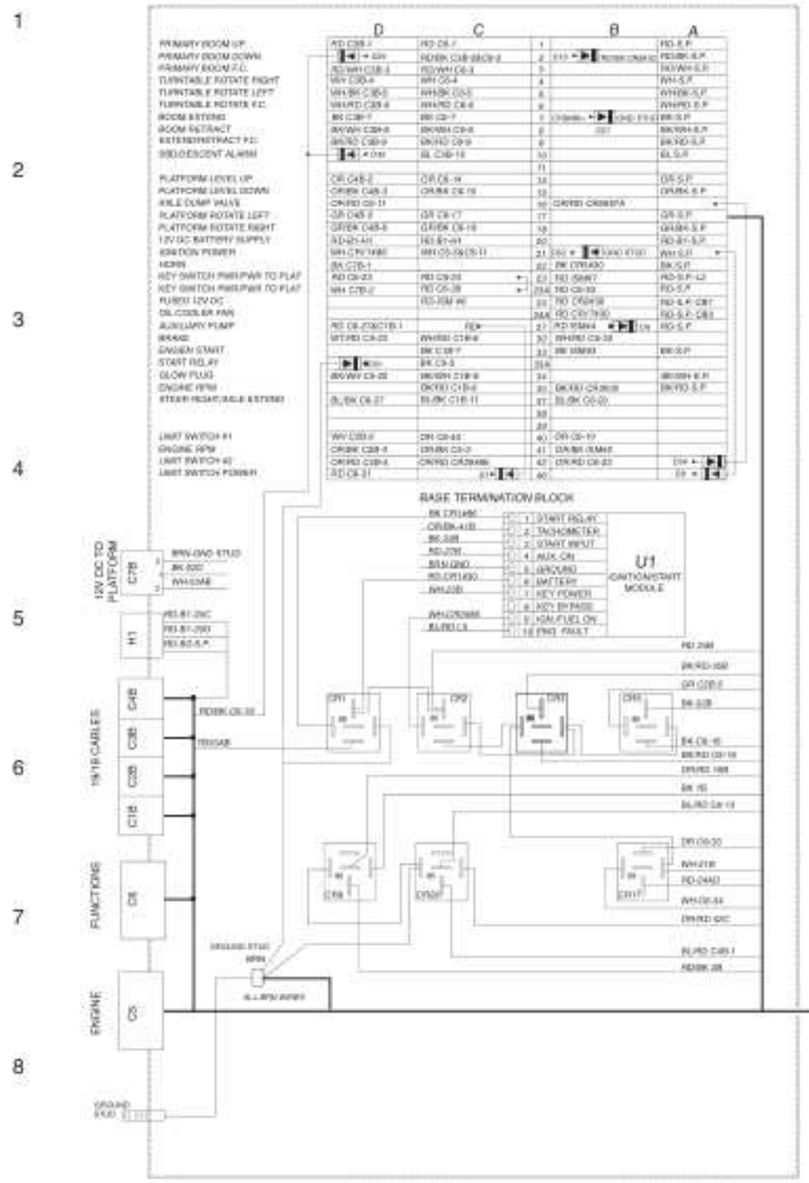
Perkins 704-30 Models (after serial number 3576)

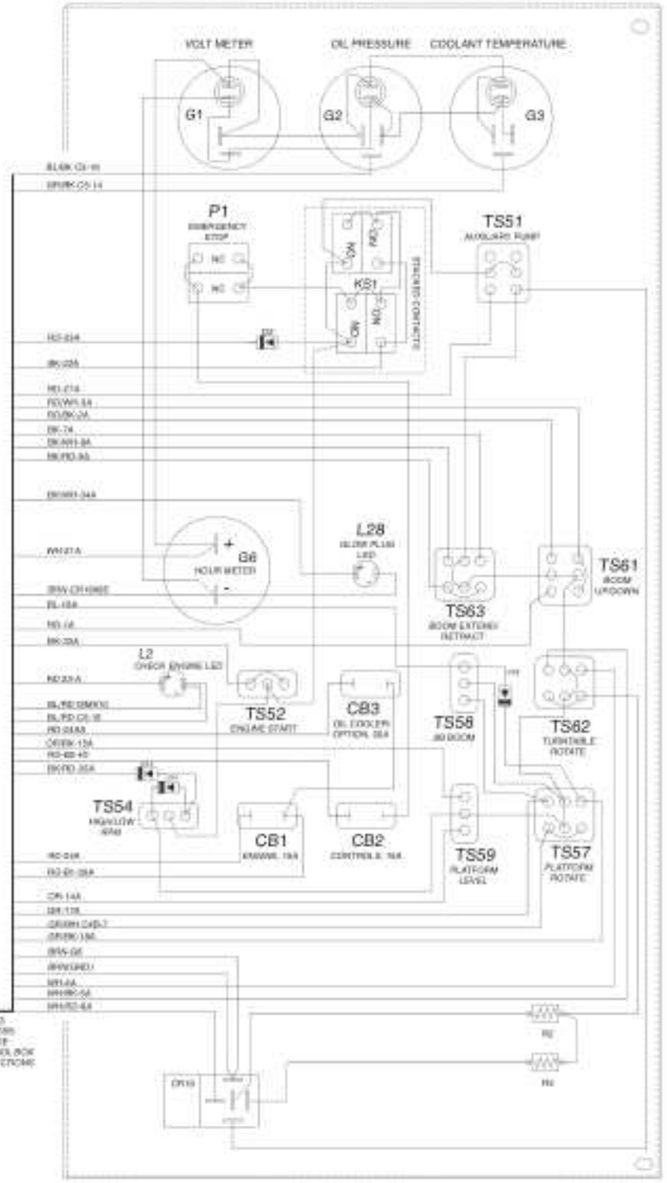


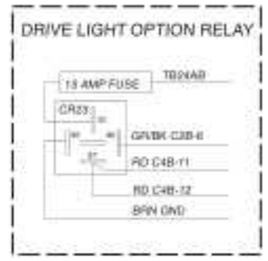
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Ground Control Box Wiring Diagram, S-85

Perkins 704-30 Models (before serial number 3577)







LABEL	DESCRIPTION
P1	EMERGENCY STOP BUTTON
KS1	KEY SWITCH
TS51	AUXILIARY POWER TOGGLE SWITCH
TS52	ENGINE START SWITCH
TS54	FUNCTION ENABLE/RPM SELECT TOGGLE SWITCH
TS57	PLATFORM ROTATE TOGGLE SWITCH
TS58	JIB BOOM UP/DOWN TOGGLE SWITCH
TS59	PLATFORM LEVEL TOGGLE SWITCH
TS61	PRIMARY BOOM UP/DOWN TOGGLE SWITCH
TS62	TURNTABLE ROTATE TOGGLE SWITCH
TS63	PRIMARY BOOM EXTEND/RETRACT TOGGLE SWITCH
CB1	CIRCUIT BREAKER, ENGINE, 15A
CB2	CIRCUIT BREAKER, CONTROLS 15A
CB3	CIRCUIT BREAKER, OIL COOLER/SPTSW, 20A
G1	VOLT METER GAUGE (OPTIONAL)
G2	OIL PRESSURE GAUGE (OPTIONAL)
G3	WATER TEMP. GAUGE (OPTIONAL)
G6	HOUR METER
L2	CHECK ENGINE LED
L28	GLOW PLUG LED
CR1	IGNITION / START RELAY
CR2	IGNITION POWER RELAY
CR5	HIGH IDLE CUTOUT RELAY
CR6	HORN RELAY
CR8	BOOM FUNCTION CUTOUT
CR17	HYDRAULIC COOLER FAN RELAY
CR18	TURNTABLE ROTATE LIMITING RELAY
CR23	DRIVE LIGHT RELAY OPTION
CR28	AXLE EXTEND LED RELAY
R2	TURNTABLE ROTATE LIMITING RESISTOR 10 OHMS
R3	TURNTABLE ROTATE LIMITING RESISTOR 5 OHMS (APU)
U1	IGNITION/START MODULE

CIRCUIT DESCRIPTION	FROM	TO
12 DRIVE ENABLE	BL/WH C6-12	BL/WH C3B-12
16 JIB VALVE	GR/WH C4B-7	GR/WH C5-21
23 OIL PRESSURE SENDER	BL/BK C2-10	BL/BK S-P
26 WATER TEMP SENDER	GR/BK C2-11	GR/BK S-P
28 TILT ALARM	RD/BK C1B-2	RD/BK D4-28
29 SWING HRD	RD/WH C3-10	RD/WH C1B-3
30 E.D.C. REV	WH C1B-4	WH C5-21
31 E.D.C. FWD	WH/BK C5-22	WH/BK C1B-4
34 STEER LEFT/JIB RETRACT	BL C3-10	BL C5-28
42 HORN	SW C2B-3	SW CP6/86
45 GEN. OPTION	GR/WH C2B-7	GR/WH C3-12
60 AXLE ROTARY SELECT	ORG/RD C6-18	ORG/RD C2D-4
61 AXLE RETRACT	BL/BK C4B-9	BL/BK C4-21

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