A TEREX COMPANY

Service and Repair Manual

S®-80
S®-85
S®-80X

Serial Number Range

from S8015-12264
to S8016H-13642

from S8515-12264
to S8516H-13642

from S80X15-12264
to S80X16H-13642

includes S8516H-13685
and S8516H-13711

from S8015D-101
to S8016D-339
from S80X15D-101
to S80X16D-339
from S80D-340
from S85D-340
from S80XD-340

This manual includes:
Repair procedures
Fault Codes
Electrical and
Hydraulic Schematics

For detailed maintenance procedures, refer to the appropriate Maintenance Manual for your machine.

Part No. 1269074GT
Rev A4
March 2018

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Table of Contents

Introduction	**Introduction**	**ii**
	Important Information	ii
	Find a Manual for this Model	ii
	Serial Number Legend	iv
Section 1	**Safety Rules**	**v**
	General Safety Rules	v
Section 2	**Specifications**	**1**
	Machine Specifications	1
	Performance Specifications	2
	Hydraulic Oil Specifications	2
	Hydraulic Component Specifications	5
	Manifold Component Specifications	6
	Continental TME27 Engine Specifications	7
	Deutz TD2011L04i Engine Specifications	8
	Deutz TD 2.9 Engine Specifications	9
	Perkins 804D-33 Engine Specifications	10
	Perkins 404F-22T Engine Specifications	11
	Machine Torque Specifications	12
	Hydraulic Hose and Fitting Torque Specifications	13
	Torque Procedure	14
Section 3	**Repair Procedures**	**16**
	Introduction	16
	Platform Controls	**18**
	1-1 ALC-500 Circuit Board	18
	How to Remove the ALC-500 Circuit Board	18
	1-2 Joysticks	19
	How to Adjust the Joystick Max-out Setting	19
	How to Adjust the Joystick Ramp Rate Setting	20
	How to Adjust the Joystick Threshold Setting	22
	How to Calibrate the Boom Angle Sensor	23

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Table of Contents

Platform Components **24**
2-1 Platform 24
2-2 Platform Leveling Slave Cylinder 25
How to Remove the Platform Leveling Slave Cylinder 25
How to Bleed the Slave Cylinder 25
2-3 Platform Rotator 26
How to Remove the Platform Rotator 26
How to Bleed the Platform Rotator 27
2-4 Platform Overload System 28

Jib Boom Components **31**
3-1 Jib Boom 31
3-2 Jib Boom Lift Cylinder 32

Boom Components **33**
4-1 Cable Track 33
How to Remove the Cable Track, S-80 33
How to Repair the Cable Track 35
4-2 Boom 35
How to Shim the Boom 35
How to Remove the Boom 36
4-3 Boom Lift Cylinder 38
4-4 Boom Extension Cylinder 40
4-5 Boom Extend/Retract Cables 42
How to Adjust the Extend/Retract Cables 42
How to Replace the Boom Extend/Retract Cables 44
4-6 Platform Leveling Master Cylinder 46
4-7 Primary Boom Angle Sensor, S-80X 47

Engines **49**
5-1 RPM Adjustment 49
5-2 Flex Plate 49
How to Remove the Flex Plate 49
How to Install the Flex Plate 52
How to install the Pump and Bell Housing Assembly 53

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Table of Contents

Ground Controls **54**
6-1 Control Relays 54

Hydraulic Pumps **55**
7-1 Function Pump 55
7-2 Drive Pump 56
How to Prime the Drive Pump 57

Manifolds **58**
8-1 Function Manifold 58
8-2 Valve Adjustments - Function Manifold 60
How to Adjust the System Relief Valve 60
How to Adjust the Boom Down Relief Valve 60
How to Adjust the Boom Extend Relief Valve 61
8-3 Brake/Two-Speed Manifold Components 62
8-4 Turntable Rotation Manifold Components 63
8-5 Platform Rotate Manifold Components 64
8-6 Platform Manifold Components, S-80 65
8-7 Platform Manifold Components, S-85 66
8-8 2WD Traction Manifold Components 67
8-9 4WD Traction Manifold Components 68
8-10 Drive Oil Diverter Manifold Components (welder option) 70
8-11 Valve Adjustments - Traction Manifold 71
8-12 Valve Coils 72
Valve Coil Resistance Specifications 72

Fuel and Hydraulic Tanks **74**
9-1 Fuel Tank 74
9-2 Hydraulic Tank 75

Turntable Rotation Components **77**
10-1 Turntable Rotation Drive Hub Assembly 77
How to Remove the Turntable Rotation Drive Hub Assembly 77
How to Remove the Turntable Rotation Hydraulic Motor 78
How to Adjust the Turntable Rotation Gear Backlash 79

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Hydraulic Hose and Fitting Torque Specifications

Your machine is equipped with Parker Seal-Lok™ ORFS or 37° JIC 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.

Seal-Lok™ Fittings

(hose end - ORFS)

SAE Dash Size	Torque
-4	10 ft-lbs / 13.6 Nm
-6	30 ft-lbs / 40.7 Nm
-8	40 ft-lbs / 54.2 Nm
-10	60 ft-lbs / 81.3 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

JIC 37° Fittings

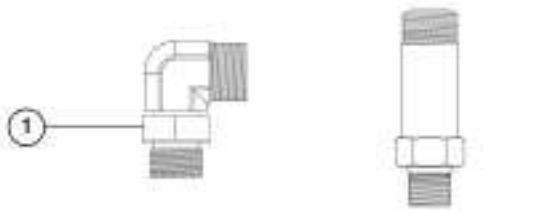
(swivel nut or hose connection)

SAE Dash Size	Thread Size	Flats
-4	7/16-20	2
-6	9/16-18	1 ¼
-8	3/4-16	1
-10	7/8-14	1
-12	1 1/16-12	1
-16	1 5/16-12	1
-20	1 5/8-12	1
-24	1 7/8-12	1

SAE O-ring Boss Port

(tube fitting - installed into Aluminum)
(all types)

SAE Dash Size	Torque
-4	14 ft-lbs / 19 Nm
-6	23 ft-lbs / 31.2 Nm
-8	36 ft-lbs / 54.2 Nm
-10	62 ft-lbs / 84 Nm
-12	84 ft-lbs / 114 Nm
-16	125 ft-lbs / 169.5 Nm
-20	151 ft-lbs / 204.7 Nm
-24	184 ft-lbs / 249.5 Nm



Adjustable Fitting

Non-adjustable fitting

1 jam nut

SAE O-ring Boss Port

(tube fitting - installed into Steel)

SAE Dash Size		Torque
-4	ORFS / 37° (Adj)	15 ft-lbs / 20.3 Nm
	ORFS (Non-adj)	26 ft-lbs / 35.3 Nm
	37° (Non-adj)	22 ft-lbs / 30 Nm
-6	ORFS (Adj / Non-adj)	35 ft-lbs / 47.5 Nm
	37° (Adj / Non-adj)	29 ft-lbs / 39.3 Nm
-8	ORFS (Adj / Non-adj)	60 ft-lbs / 81.3 Nm
	37° (Adj / Non-adj)	52 ft-lbs / 70.5 Nm
-10	ORFS (Adj / Non-adj)	100 ft-lbs / 135.6 Nm
	37° (Adj / Non-adj)	85 ft-lbs / 115.3 Nm
-12	(All types)	135 ft-lbs / 183 Nm
-16	(All types)	200 ft-lbs / 271.2 Nm
-20	(All types)	250 ft-lbs / 339 Nm
-24	(All types)	305 ft-lbs / 413.5 Nm

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Fault Codes



Observe and Obey:

- ☑ Troubleshooting and repair procedures shall be completed by a person trained and qualified on the repair of this machine
- ☑ Immediately tag and remove from service a damaged or malfunctioning machine.
- ☑ Repair any machine damage or malfunction before operating the machine.
- ☑ Unless otherwise specified, perform each procedure with the machine in the following configuration:
  - Machine parked on a firm, level surface
  - Key switch in the off position with the key removed
  - The red Emergency Stop button in the off position at both the ground and platform controls
  - Wheels chocked
  - All external AC power supply disconnected from the machine
  - Boom in the stowed position
  - Turntable secured with the turntable rotation lock
  - Welder disconnected from the machine (if equipped with the weld cable to platform option)

Before Troubleshooting:

- ☑ Read, understand and obey the safety rules and operating instructions in the appropriate operator's manual on your machine.
- ☑ Be sure that all necessary tools and test equipment are available and ready for use.
- ☑ Read each appropriate fault code thoroughly. Attempting short cuts may produce hazardous conditions.
- ☑ Be aware of the following hazards and follow generally accepted safe workshop practices.

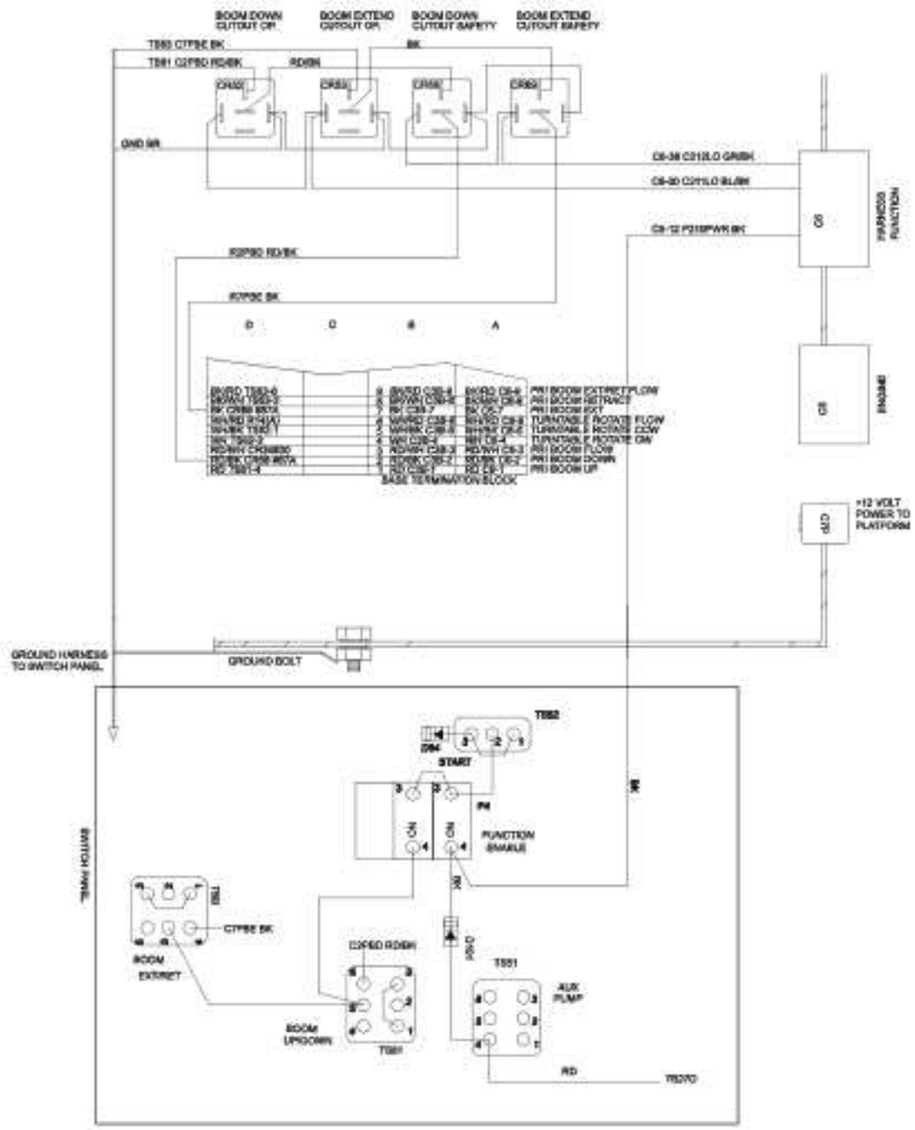
⚠WARNING Electrocution/burn hazard. Contact with electrically charged circuits could result in death or serious injury. Remove all rings, watches and other jewelry.

Note: Two persons will be required to safely perform some troubleshooting procedures.

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S-80X Ground Control Box Wiring Diagram

Use this wiring diagram with each S-80X Ground Control Box Schematic

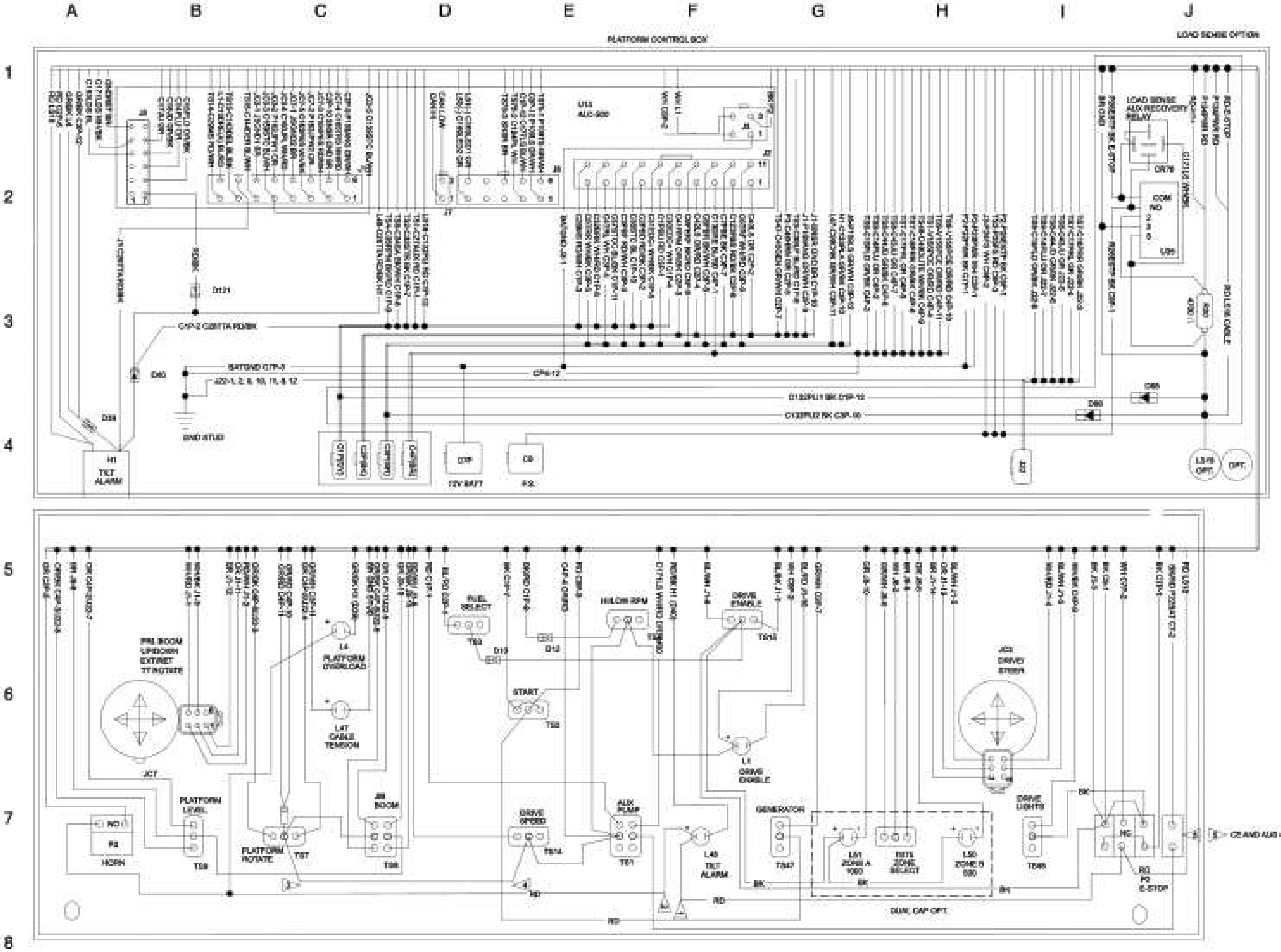


ES0503P
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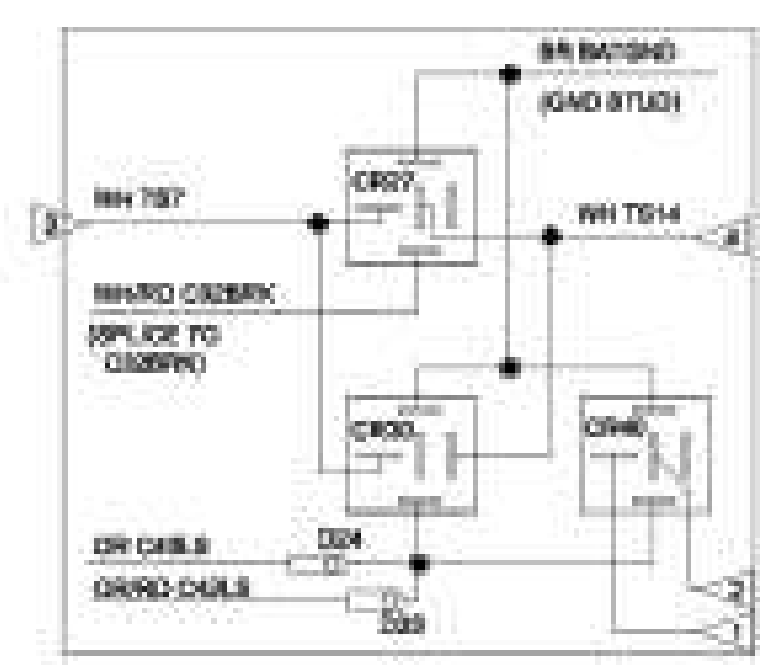
Platform Control Box, S-80 • S-85

Continental TME27 Models (ANSI / CSA)



COMPONENT INDEX

P2	EMERGENCY STOP BUTTON
P4	HORN SWITCH
TS1	AUXILIARY SWITCH
TS2	START ENGINE SWITCH
TS4	HI/LOW RPM SWITCH
TS6	GLOW PLUG OPTION (DIESEL ENGINE ONLY)
TS7	PLATFORM ROTATE SWITCH
TS8	JIB SWITCH (OPTION)
TS9	PLATFORM LEVEL SWITCH
TS14	DRIVE SPEED LOW/HIGH SWITCH
TS15	DRIVE ENABLE SWITCH
TS47	GENERATOR SWITCH (OPTION)
TS48	DRIVE LIGHTS (OPTION)
TS76	ZONE SELECTION
L1	DRIVE ENABLE LED
L4	PLATFORM OVERLOAD LED (CE ONLY)
L47	CABLE/CHAIN TENSION LED
L48	TILT ALARM LED (ANSI/CSA ONLY)
L50	ZONE B, 500 LB
L51	ZONE A, 1000 LB
JC3	DRIVE PROPORTIONAL JOYSTICK: PROPEL, STEER LEFT/RIGHT
	(DUAL AXIS OR SINGLE AXIS ROCKER-OPTIONAL)
JC7	BOOM JOYSTICK: PRIMARY UP/DN, EXT/RET, TT ROTATE
	(DUAL AXIS ROCKER)
U26	LOAD SENSE TIME DELAY RELAY (35A)
H1	TILT ALARM
LS18	PLATFORM OVERLOAD LIMIT SWITCH
U13	ALC500 JOYSTICK CONTROLLER CARD



CE UNITS

REPLACE WIRE WITH THIS WIRING DIAGRAM

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