Genie®
A TEREX COMPANY

Service and Repair Manual

Serial Number Range

From Z45EM-101

Z®-45 FE
Z®-45 DC

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

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

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Specifications

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)

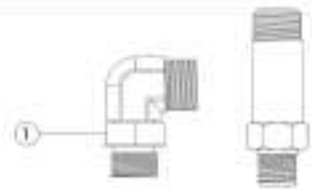
SAE Dash size	Torque
-4	18 ft-lbs / 24.4 Nm
-6	30 ft-lbs / 40.7 Nm
-8	40 ft-lbs / 54.2 Nm
-10	60 ft-lbs / 81.3 Nm
-12	85 ft-lbs / 115 Nm
-16	110 ft-lbs / 150 Nm
-20	150 ft-lbs / 203.4 Nm
-24	230 ft-lbs / 312 Nm

JIC 37° Fittings
(swivel nut or hose connection)

SAE Dash size	Thread Size	Flats
-4	7/16-20	2
-6	9/16-18	1 1/4
-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 / 49 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 Fitting1
Jam nut

Non-adjustable fitting

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

SAE Dash size		Torque
-4	ORFS / 37° (Adj) ORFS (Non-adj) 37° (Non-adj)	15 ft-lbs / 20.3 Nm 26 ft-lbs / 35.3 Nm 22 ft-lbs / 30 Nm
-6	ORFS (Adj / Non-adj) 37° (Adj / Non-adj)	35 ft-lbs / 47.5 Nm 29 ft-lbs / 39.3 Nm
-8	ORFS (Adj / Non-adj) 37° (Adj / Non-adj)	60 ft-lbs / 81.3 Nm 52 ft-lbs / 70.5 Nm
-10	ORFS (Adj / Non-adj) 37° (Adj / Non-adj)	100 ft-lbs / 135.6 Nm 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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Control System Fault Codes

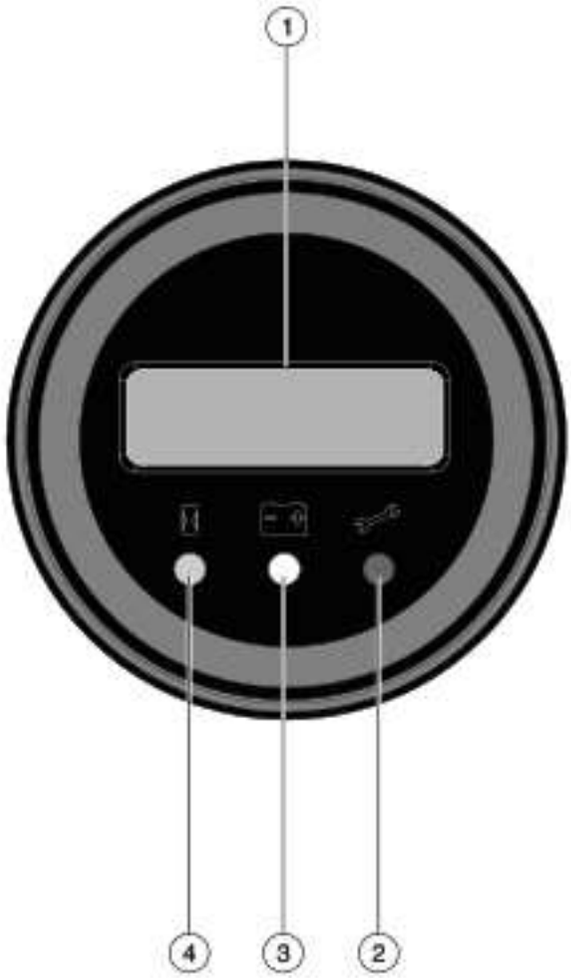
Fault Codes Ground Controls

Standard Genie fault codes shall be displayed and the red LED will illuminate when any faults are present. If more than one fault code is present, the codes shall be displayed in succession with each code displayed for 4 seconds. Once all active fault codes have been displayed the screen will pause for 4 seconds and then repeat the list of active fault codes. Use the *Control Systems Fault Codes* chart to aid in troubleshooting the machine by pinpointing the area or component affected.

Ground Display Smart Hour Meter

The smart hour meter will display unit hours and battery state of charge (SOC) whenever no faults are present on the system. The value will cycle between unit hours and battery SOC every 5 seconds. When the engine is running (if equipped), the display will cycle hours, SOC, and RPM.

Both Engine Hours and DC Function Enable Hours will be tracked. DC Function enable hours will be displayed on the smart hour meter by default. Engine Hours will be displayed if the hybrid mode select switch is held for three (3) seconds. Engine Hours will continue to display as long as the hybrid mode select switch is held



1 LCD screen (8 character display)
2 Red LED below the wrench icon illuminates when system faults are displayed
3 Yellow LED below the battery icon illuminates when battery state of charge is displayed.
4 Green LED below the hourglass icon illuminates when unit hours are displayed

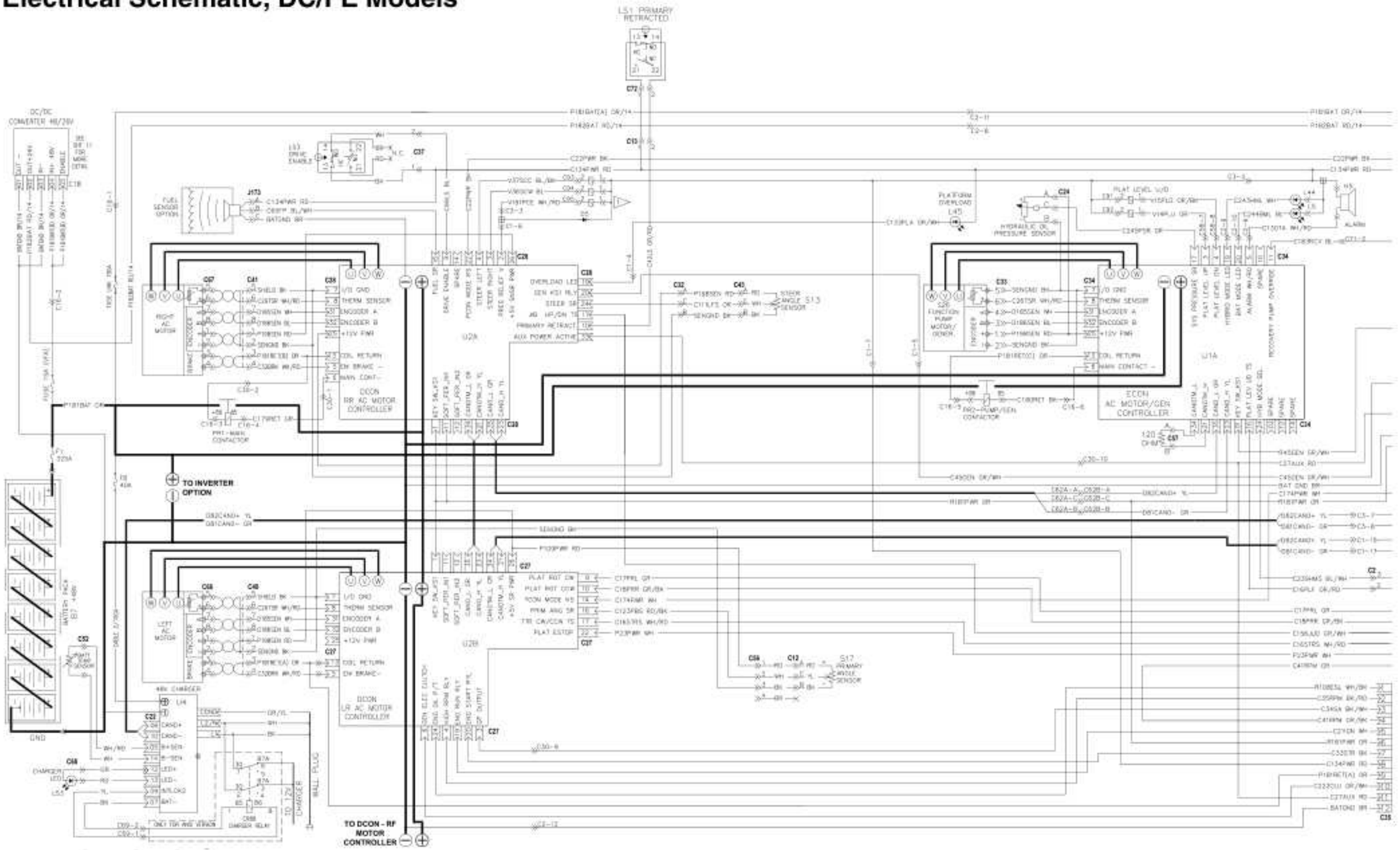
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Electrical Schematic, DC/FE Models



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