A TEREX COMPANY

Service and Repair Manual

SX™-180

Serial Number Range

from SX18014-101
to SX18016-599

from SX180H-600
to SX180H-744

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. 1268497GT
Rev B
December 2019

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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 / 25 Nm
-6	30 ft-lbs / 41 Nm
-8	40 ft-lbs / 55 Nm
-10	60 ft-lbs / 81 Nm
-12	85 ft-lbs / 115 Nm
-16	110 ft-lbs / 150 Nm
-20	150 ft-lbs / 205 Nm
-24	230 ft-lbs / 315 Nm

JIC 37° Fittings

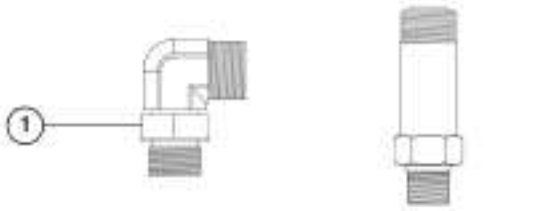
(swivel nut or hose connection)

SAE Dash Size	Thread Size	Flats
-4	7/16-20	2
-6	9/16-18	1 1/2
-8	3/4-16	1 1/2
-10	7/8-14	1 1/2
-12	1 1/16-12	1 1/4
-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) 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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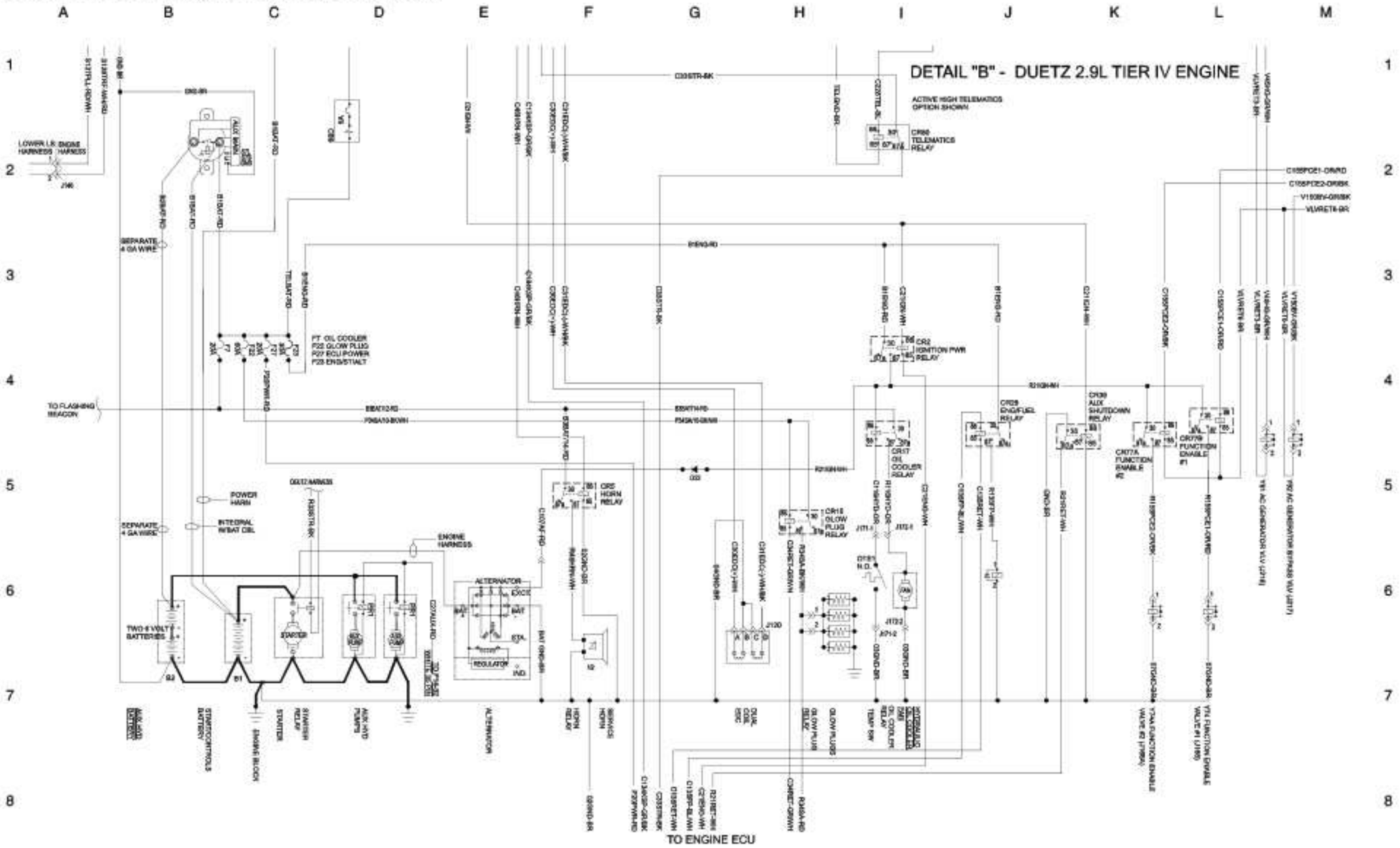
Control System Fault Codes

SPN = Suspect Parameter Number
FMI = Failure Mode Identifier

SPN	FMI	Description	Refer to Engine Manual
3219	15	After treatment #1 Intake Gas Sensor at Temperature : High- least severe (1)	Oxygen Level- Test
3219	17	After treatment #1 Intake Gas Sensor at Temperature : Low - least severe (1)	Oxygen Level- Test
3222	3	After treatment #1 Intake Gas Sensor Heater : Voltage Above Normal	Oxygen Level- Test
3222	4	After treatment #1 Intake Gas Sensor Heater :Voltage Below Normal	Oxygen Level- Test
3222	5	After treatment #1 Intake Gas Sensor Heater :Current Below Normal	Oxygen Level- Test
3242	3	Particulate Trap Intake Gas Temperature :Voltage Above Normal	Engine Temperature Sensor Open or Short Circuit- Test
3242	4	Particulate Trap Intake Gas Temperature :Voltage Below Normal	Engine Temperature Sensor Open or Short Circuit- Test
3251	0	Particulate Trap Differential Pressure : High-most severe (3)	Diesel Particulate Filter Collects Excessive Soot
3251	3	Particulate Trap Differential Pressure:Voltage Above Normal	Engine Pressure Sensor Open or Short Circuit - Test
3251	4	Particulate Trap Differential Pressure :Voltage Below Normal	Engine Pressure Sensor Open or Short Circuit- Test
3251	7	Particulate Trap Differential Pressure :Not Responding Properly	Diesel Particulate Filter Has Differential Pressure Problem
3251	10	Particulate Trap Differential Pressure :Abnormal Rate of Change	Diesel Particulate Filter Has Differential Pressure Problem
3251	16	Particulate Trap Differential Pressure :High-moderate severity (2)	Diesel Particulate Filter Collects Excessive Soot
3251	17	Particulate Trap Differential Pressure : Low - least severe (1)	Diesel Particulate Filter Has Differential Pressure Problem
3509	2	Sensor Supply Voltage 1: Erratic,Intermittent,or Incorrect	5 Volt Sensor Supply Circuit- Test
3510	2	Sensor Supply Voltage 2 : Erratic,Intermittent, or Incorrect	5 Volt Sensor Supply Circuit- Test
3511	2	Sensor Supply Voltage 3 : Erratic,Intermittent,or Incorrect	5 Volt Sensor Supply Circuit - Test
3697	6	Particulate Trap Lamp Command :Current Above Normal	Indicator Lamp Circuit- Test
3698	6	Exhaust System High Temperature Lamp Command :Current Below Normal	Indicator Lamp Circuit- Test

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Deutz TD 2.9 L4 Engine Electrical Schematic

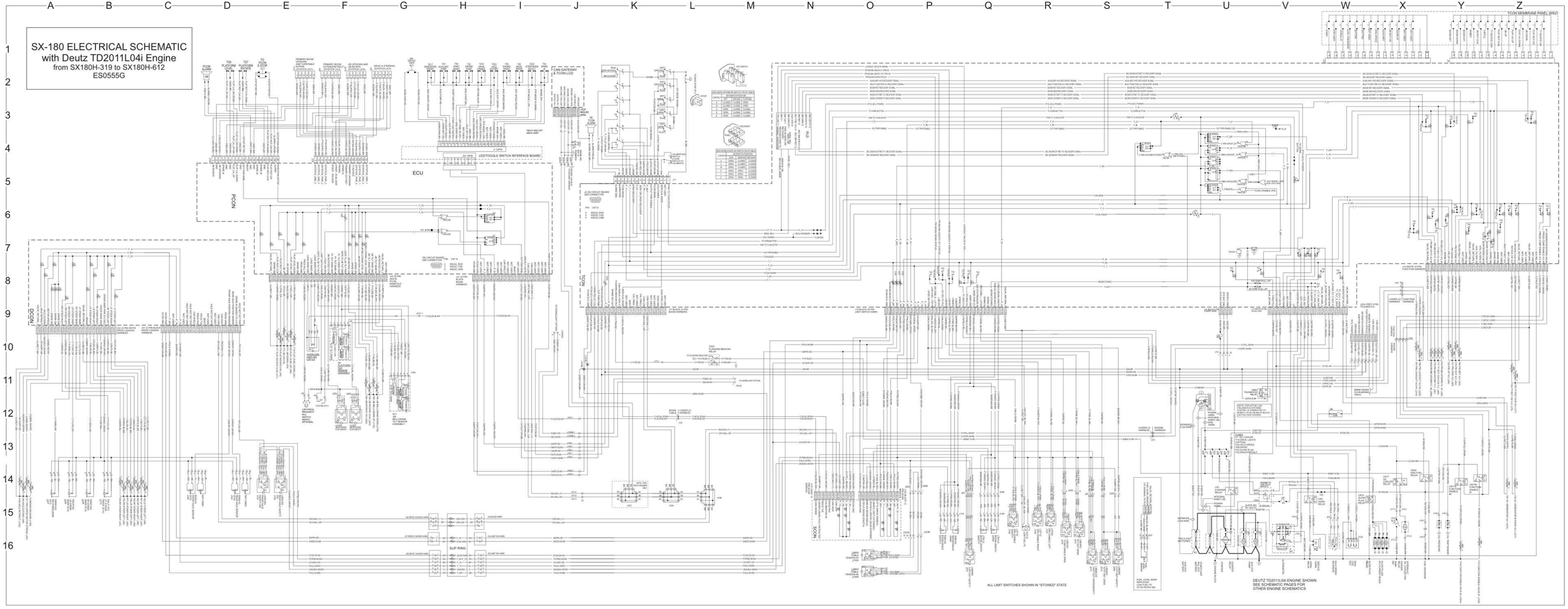


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SX-180 ELECTRICAL SCHEMATIC with Deutz TD2011L04i Engine

from SX180H-319 to SX180H-612

ES0555G



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