A TEREX COMPANY

Service and Repair Manual

GTH™-636

Serial Number Range

from GTH06E-11750

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

Machine Specifications

Tires and wheels	
Tire size	13.00 x 28
Tire ply rating	12
Weight, rough terrain tire (air filled)	335 lbs 151.9 kg
Weight, rough terrain tire (foam filled)	780 +50/-20 lbs 353 +23/-9 kg
Tire pressure (models with air-filled tires)	58 psi 4.3 bar
Lug nut torque	465 ft-lbs 630 Nm
Lug Pattern	8 x 10.826
Wheel diameter	28 in 71.12 cm
Wheel width	10 in 25.4 cm

Fluid capacities	
Fuel tank	27 gallons 102.2 liters
Hydraulic tank	19 gallons 71.9 liters
Hydraulic system (including tank)	31.5 gallons 119.2 liters

Performance Specifications

Drive speed, maximum	
Deutz TD2.9 Engines	18 mph 29.0 km/h
Draw bar pull	15,100 lbs 6849 kg
Lift capacity, maximum	6000 lbs 2722 kg

Boom function speeds, maximum	
Boom up	10 to 12 seconds
Boom down	8 to 10 seconds
Boom extend	11 to 13 seconds
Boom retract	9 to 11 seconds
Fork rotate	3 to 6 seconds
Fork tilt up	6 to 8 seconds
Fork tilt down	5 to 7 seconds

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Diagnostic Display

When the engine Electronic Control Module (ECM) detects an abnormal operating condition, a fault code is immediately stored in the ECM memory.

The fault code is displayed on the LCD display which is located on the gauge cluster in the operator's compartment.

The gauge cluster also includes two warning lights.

They are an amber colored light which signals an abnormal engine condition which should be corrected as soon as possible and a red colored light which signals an engine condition which requires the operator to shut down the engine as soon as possible.

The ECM will, in some cases, automatically shut down the engine when the red light is displayed.

Active Fault Codes

Active Fault Codes will be displayed on the gauge cluster when the diagnostic button is pressed for 5 seconds, if present. If multiple fault codes are detected, scroll through them using the diagnostic button.

Active Codes vs Stored Codes

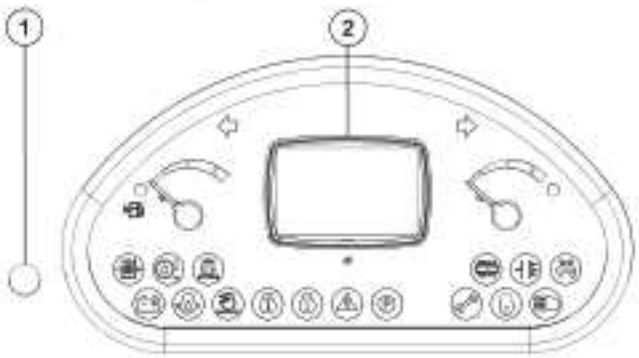
Active fault codes, indicating an engine condition or conditions which have not been corrected, are displayed at the moment the fault is detected.

Stored fault codes are the cumulative history of fault codes which the ECM has detected. These fault codes may be recalled by service personnel at a later time even if the condition which caused the engine fault has ceased to exist.

Note: Additional hardware will be necessary to access stored codes.

Decoding Fault Codes

The Suspect Parameter Number (SPN) and the Failure Mode Identifier (FMI), when combined, are the basis for an engine fault code. The SPN number indicates the affected component; the FMI number reveals the type of failure that has occurred. Comparing the combination of numbers to the fault code chart on the following pages will help to determine the exact engine fault and a corrective course of action. For additional information, refer to the engine operator's manual which came with your machine.



1 Diagnostic button
2 LCD screen

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Harness Map Legend

Base Harnesses
(included in all models)

Item	Part	Description
1	1283065	Harness, Dashboard
2	1282182	Harness, Secondary Manifold
3	1256744	Harness, Telematics
4	826149	Harness, Transmission
5	1258119	Harness, Throttle Pedal
6	231257	Cable, Battery Black 2/0
7	237933	Harness, Pcb Ground
8	161444	Assembly, Ground Buss
9	824612	Plate, Buss Bar
10	219457	Harness, Backup Alarm
11	161524	Assembly, Power Buss
12	1283713	Harness, Primary PVG
13	1283942	Harness, CAN Interface Jumper

Engine Options Harnesses

Item	Part	Description
14	823005	Harness, Engine ECU, TD2.9
15	823349	Harness, Engine Base, TD2.9
16	1251991	Cable, Battery, Red 2/0
17	1283272	Harness, Diagnostic Plug Ext
18	219337	Harness,Fuel Pressure Switch

Beacon Light Option Harnesses

Item	Part	Description
38	229683	Harness Beacon Light
39	229682	Harness, Power, Beacon Light

3rd Gear Lockout Option Harness

Item	Part	Description
19	162281	Harness, 3rd Gear Bypass

Work Light Option Harnesses

Item	Part	Description
20	1258527	Harness, Light, Led, Clear, 5" Round
21	1258775	Harness Cab Light Power
22	1256520	Harness, Boom Light Power
23	237934	Harness, Backup Light
24	1258528	Harness, Work Lights

Road Light Option Harnesses

Item	Part	Description
20	1258527	Harness, Light, Led, Clear, 5" Round
21	1258775	Harness Cab Light Power
22	1256520	Harness, Boom Light Power
23	237934	Harness, Backup Light
25	1255589	Harness, Road Lights
26	229677	Harness, Taillight Led
27	1253241	Harness,light,drive,clear,3led
28	1255647	Harness, Light, Turn Signal,ambr
29	1258919	Harness, Front Lights Power

Enclosed Cab With HVAC Option Harnesses

Item	Part	Description
30	1257913	Harness, Enclosed Cab
31	234859	Harness, Cab Fan
32	233940	Harness, Power, Dome Light
33	123817	Dome Light With Connector
35	238126	Harness, Cab A/C
36	1258956	Harness, A/C GTH636
37	1260044	Fan Assy, Condenser 12V 18A

Enclosed Cab With Heat Option Harnesses

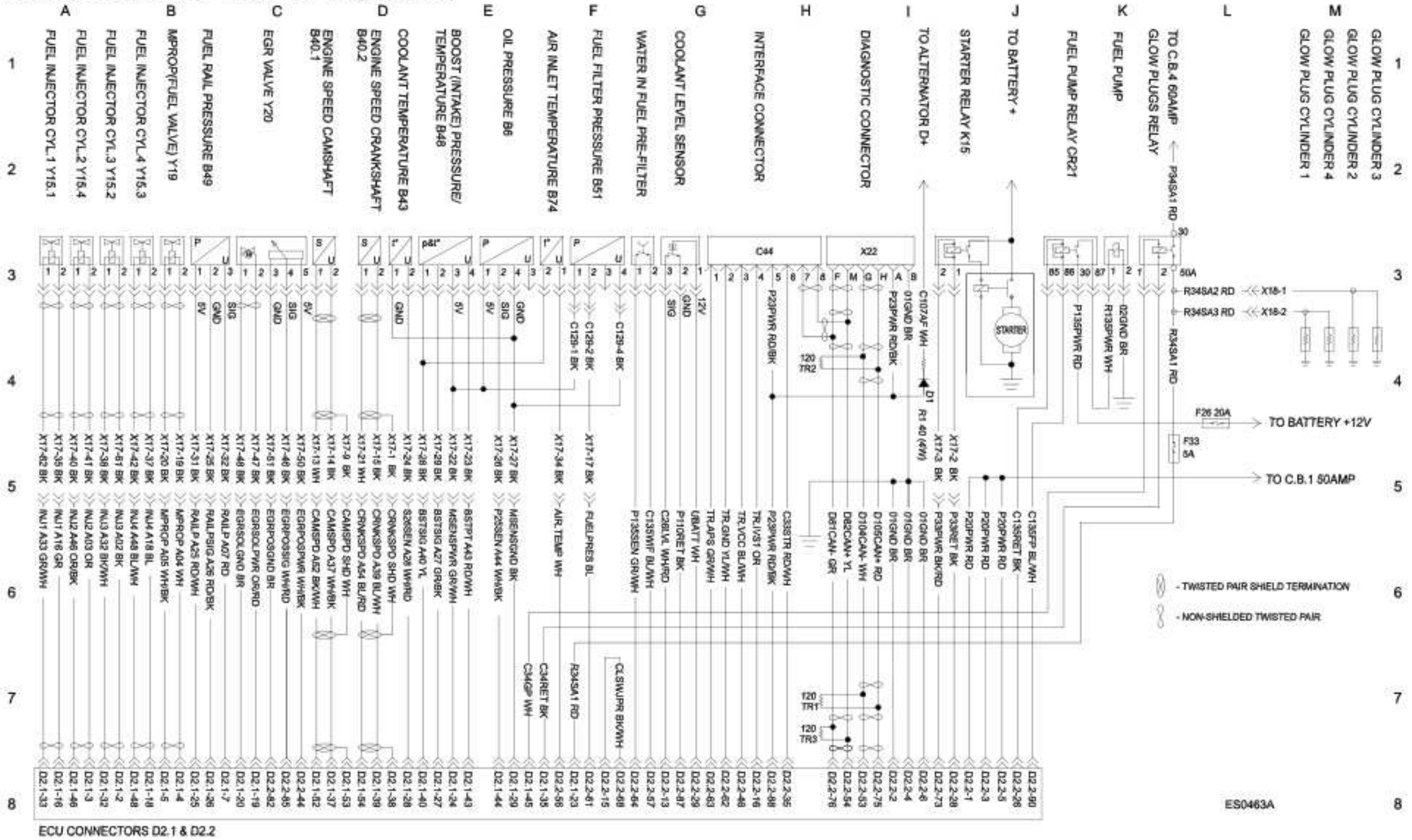
Item	Part	Description
30	1257913	Harness, Enclosed Cab
31	234859	Harness, Cab Fan
32	233940	Harness, Power, Dome Light
33	123817	Dome Light With Connector
34	234861	Harness, Cab Heater

Rear Proximity Alarm Option

Item	Part	Description
40	1257991	Harness,Rear Prox Alarm,GTH

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Electrical Schematic - Deutz T4F Eng Harness



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