A TEREX COMPANY

Service and Repair Manual

Serial Number Range

GTH™-1056

from GTH10E-12500

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	14.00 x 24
Tire ply rating	12
Weight, rough terrain tire (air filled)	315 lbs 142.9 kg
Weight, rough terrain tire (foam filled)	967 ±35 lbs 439 ±16 kg
Weight, rock lug tire (foam filled)	1013 ±35 lbs 459 ±16 kg
Tire pressure (models with air-filled tires)	50 psi 3.45 bar
Lug nut torque	465 ft-lbs 630 Nm
Lug Pattern	10 x 13.189
Wheel diameter	24 in 60.1 cm
Wheel width	9 in 22.9 cm

Fluid capacities	
Fuel tank	35 gallons 132.5 liters
Hydraulic tank	44 gallons 166.5 liters
Hydraulic system (including tank)	55 gallons 208.2 liters
DEF tank	2.6 gallons 10 liters

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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

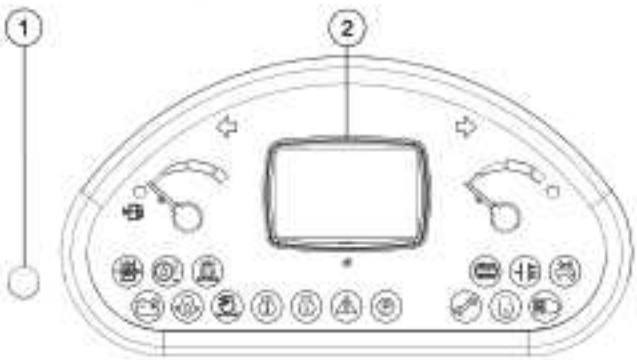
Active fault codes, indicating an engine condition or conditions which have not been corrected, are displayed at the moment the fault is detected.

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

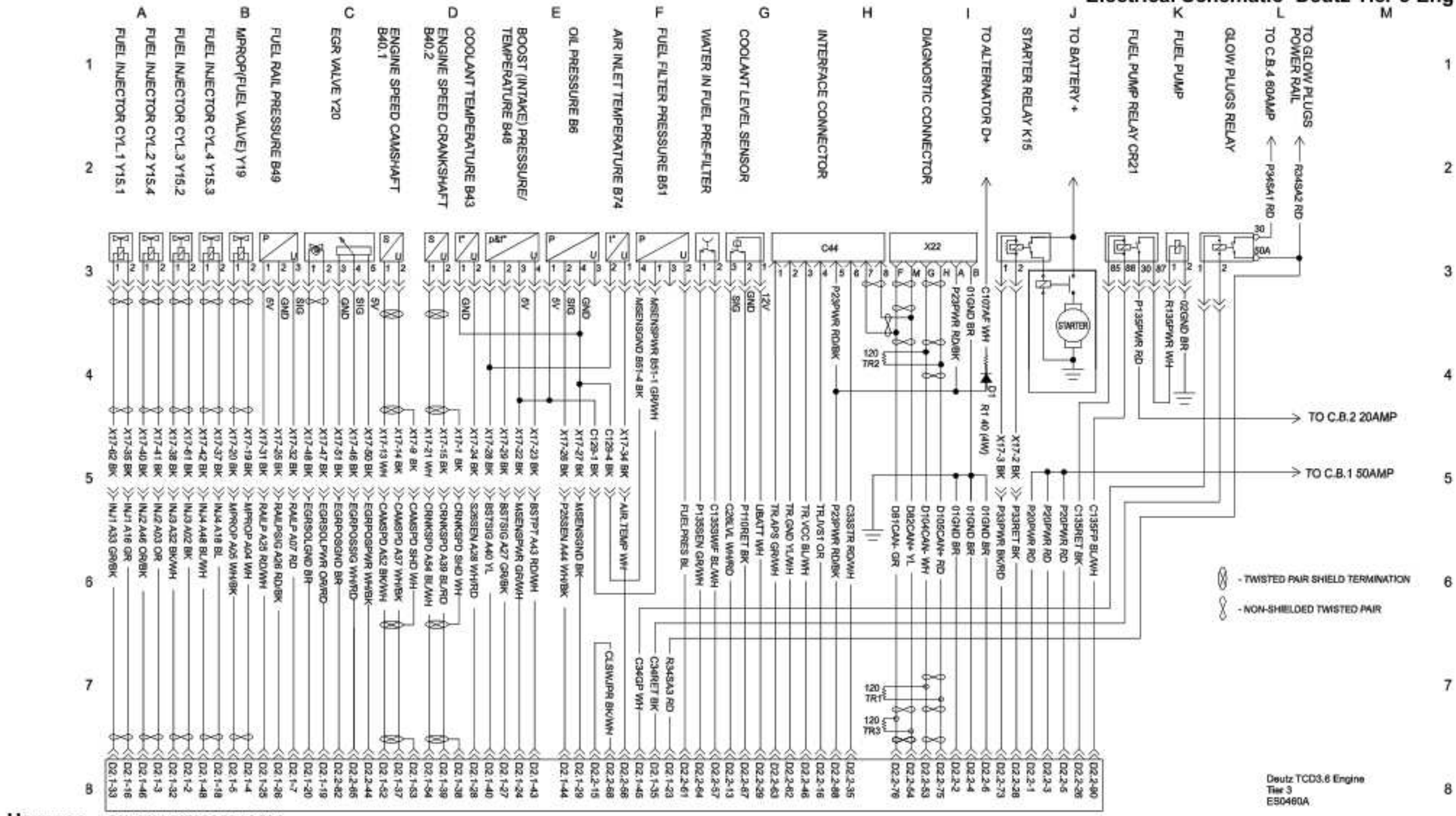
The Suspect Parameter Number (SPN) and the Failure Mode Identifier (FMI), when combined, are the basis for an engine fault code. The SPN number indicates the affected component; the FMI number reveals the type of failure that has occurred. Comparing the combination of numbers to the fault code chart 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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Electrical Schematic- Deutz Tier 3 Eng

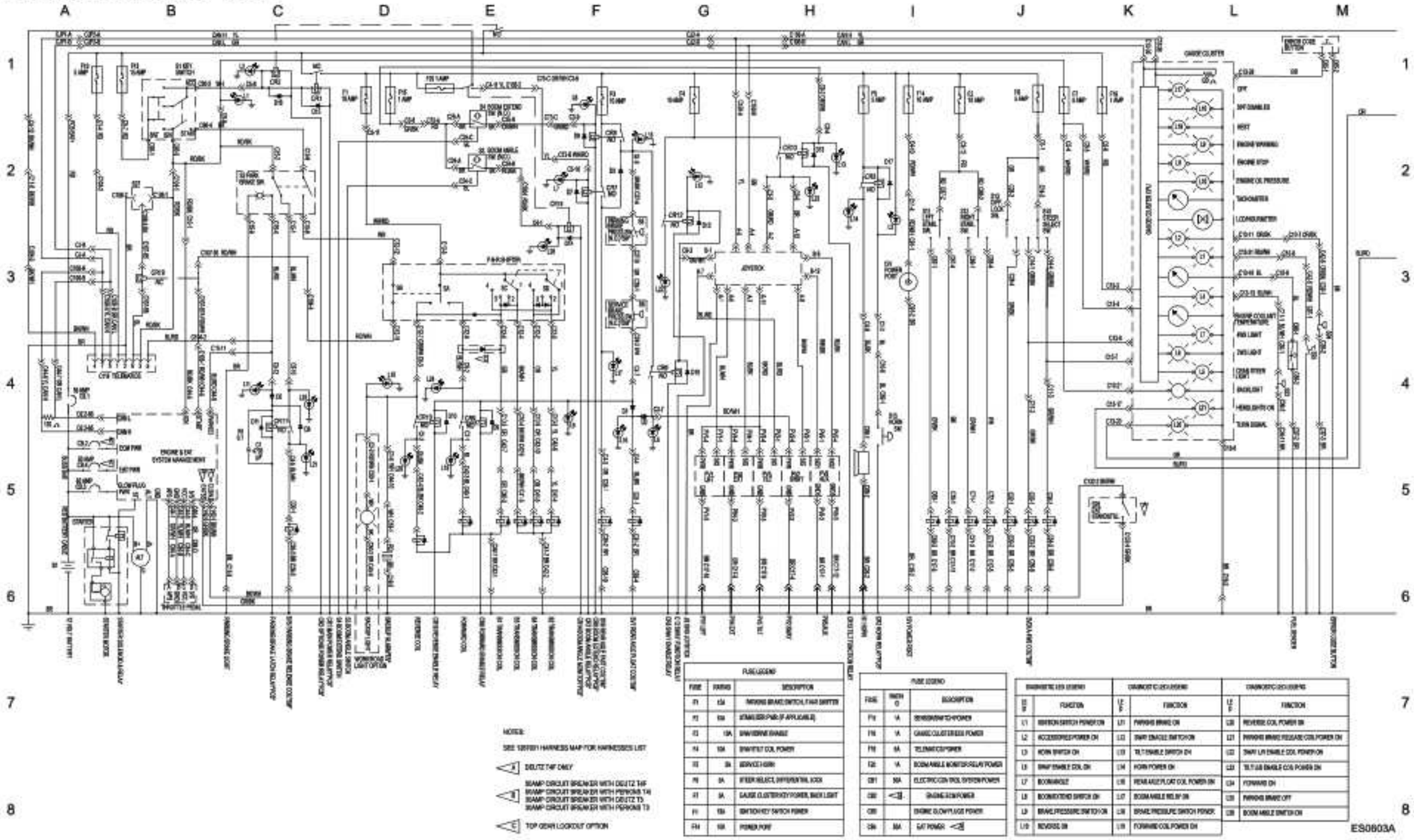


Harness

ECU CONNECTORS D2.1 & D2.2

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Electrical Schematic- View 1



FUSE LEGEND		
FUSE	RATING	DESCRIPTION
F1	15A	PARKING BRAKE SWITCH, E-KAB SWITCH
F2	10A	STAB ASSY (PAIR) (IF APPLICABLE)
F3	15A	BRAKE/HORN ENABLE
F4	10A	SHIFT/TILT COIL POWER
F5	5A	SERVICE HORN
F6	5A	STEER SELECT, DIFFERENTIAL LOCK
F7	5A	GAUGE CLUSTER KEY POWER, BACK LIGHT
F8	10A	IGNITION KEY SWITCH POWER
F9	10A	POWER PORT

FUSE LEGEND		
FUSE	RATING (A)	DESCRIPTION
F10	1A	SENSOR/SWITCH POWER
F11	1A	GAUGE CLUSTER KEEP POWER
F12	5A	TELEMATICS POWER
F13	1A	BOOM ANGLE MONITOR RELAY POWER
C01	50A	ELECTRIC CONTROL SYSTEM POWER
C02		ENGINE START POWER
C03		ENGINE GLOW PLUGS POWER
C04	80A	CAT POWER

DIAGNOSTIC LED LEGEND	
LED ID	FUNCTION
L1	IGNITION SWITCH POWER ON
L2	ACCESSORIES POWER ON
L3	HORN SWITCH ON
L5	SHIFT ENABLE COIL ON
L7	BOOM ANGLE
L8	BOOM EXTEND SWITCH ON
L9	BRAKE PRESSURE SWITCH ON
L10	REVERSE ON

DIAGNOSTIC LED LEGEND	
LED ID	FUNCTION
L11	PARKING BRAKE ON
L12	SHIFT ENABLE SWITCH ON
L13	TILT ENABLE SWITCH ON
L14	HORN POWER ON
L16	REAR AXLE FLOAT COIL POWER ON
L17	BOOM ANGLE RELAY ON
L18	BRAKE PRESSURE SWITCH POWER
L19	FORWARD COIL POWER ON

DIAGNOSTIC LED LEGEND	
LED ID	FUNCTION
L20	REVERSE COIL POWER ON
L21	PARKING BRAKE RELEASE COIL POWER ON
L22	SHIFT LIFT ENABLE COIL POWER ON
L23	TILT LIFT ENABLE COIL POWER ON
L24	FORWARD ON
L25	PARKING BRAKE OFF
L26	BOOM ANGLE SWITCH ON

NOTES:

SEE 1287001 HARNESS MAP FOR HARNESSES LIST

DEUTZ TAF ONLY

30 AMP CIRCUIT BREAKER WITH DEUTZ TAF
30 AMP CIRCUIT BREAKER WITH PERKINS T4F
30 AMP CIRCUIT BREAKER WITH DEUTZ T3
30 AMP CIRCUIT BREAKER WITH PERKINS T3

TOP GEAR LOCKOUT OPTION

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