A TEREX COMPANY

Service and Repair Manual

GTH™-844

Serial Number Range

from GTH08E-11500

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. 1288232GT
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Specifications

Perkins 1104D-E44TA Engine

Displacement	269 cu. in 4.4 liters
Number of cylinders	4
Bore and Stroke	4.13 x 5 inches 105 x 127 mm
Horsepower	99 @ 2200 rpm 73.8 kW @ 2200 rpm
Peak Torque	310 lb-ft @ 1400 rpm 420 Nm @ 1400 rpm
Induction system	turbocharged
Firing order	1 - 3 - 4 - 2
Low idle **Frequency**	1000 rpm 200 Hz
High idle **Frequency**	2500 rpm 500 Hz
Compression ratio	16.2:1
Combustion	E-TVCS
Governor	Electronic
Lubrication system	
Oil pressure, hot (@ 2300 rpm)	43 to 58 psi 2.9 to 4 bar
Oil capacity (including filter)	10 quarts 9.6 liters
Oil viscosity requirements	
Unit ships with 15W-40. Extreme operating temperatures may require the use of alternative engine oils. For oil requirements, refer to the Engine Operator Manual for your engine.	
Fuel requirement	
For fuel requirements, refer to the engine Operator Manual for your engine.	
Fuel injection pressure	23700 psi 1635 bar
Starter motor	
Normal load	68A
Relay max	50A
Relay continuous	20A
Cranking speed	130 - 200 rpm
Battery Specifications	
Type	12V DC, Group C31
Quantity	1
Battery capacity, maximum	1000A
Reserve capacity @ 25A rate	200 Minutes
Engine coolant	
Capacity	4.6 gallons 17.4 liters
Type	Extended Life
Glow Plugs	
Initial load (0-4 sec)	20A (EA)
Continuous load (>4 sec)	15A (EA)
Alternator output	85A @ 12V DC

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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

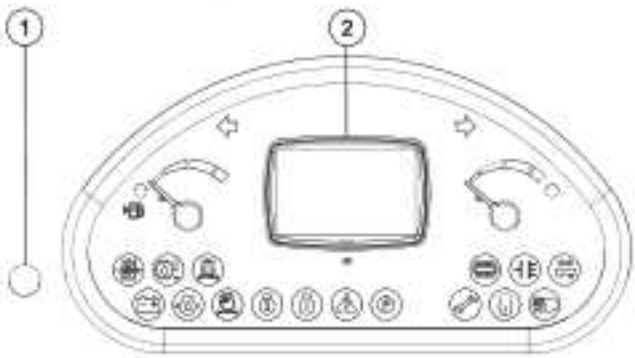
Active fault codes, indicating an engine condition or conditions which have not been corrected, are displayed at the moment the fault is detected.

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

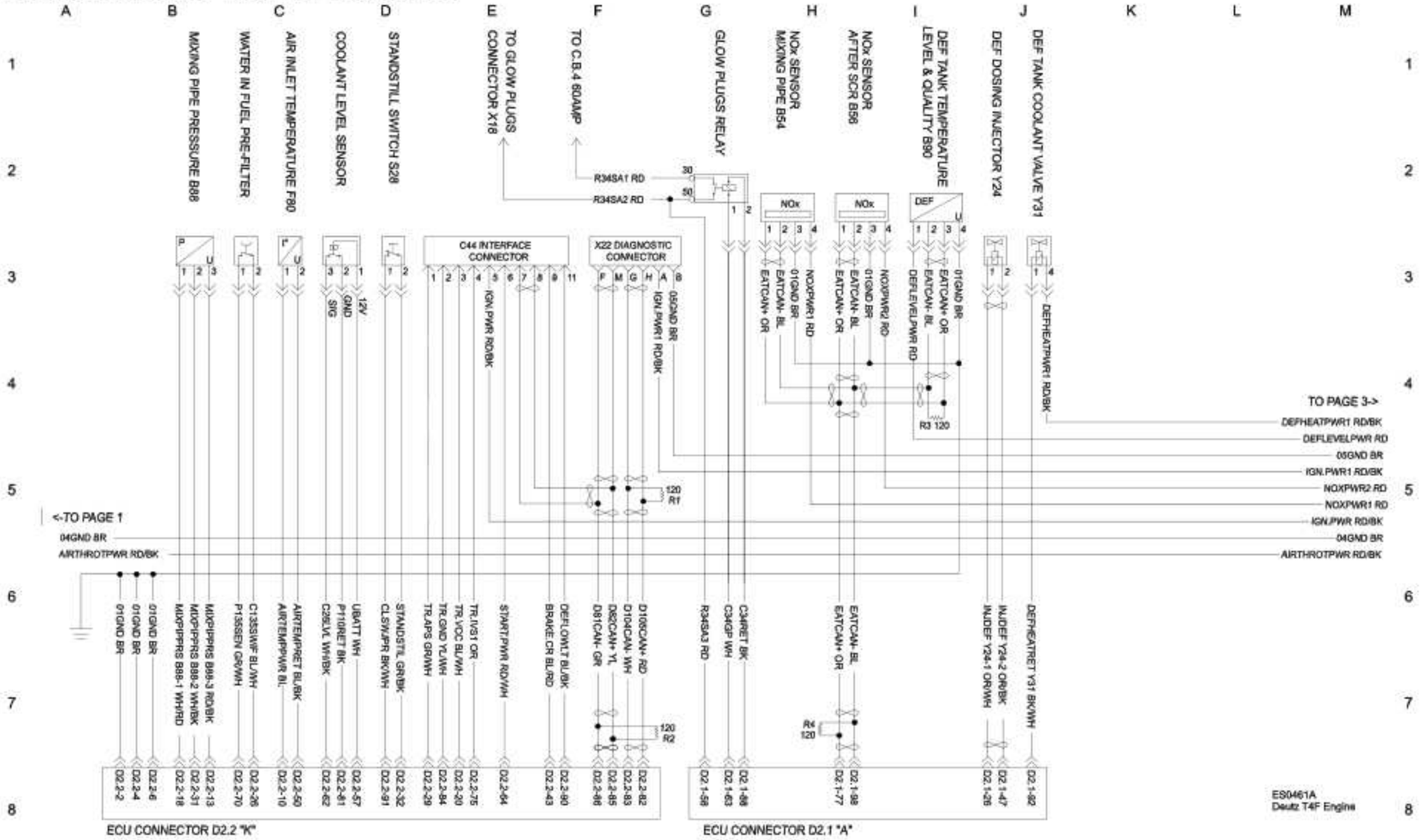
The Suspect Parameter Number (SPN) and the Failure Mode Identifier (FMI), when combined, are the basis for an engine fault code. The SPN number indicates the affected component; the FMI number reveals the type of failure that has occurred. Comparing the combination of numbers to the fault code chart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

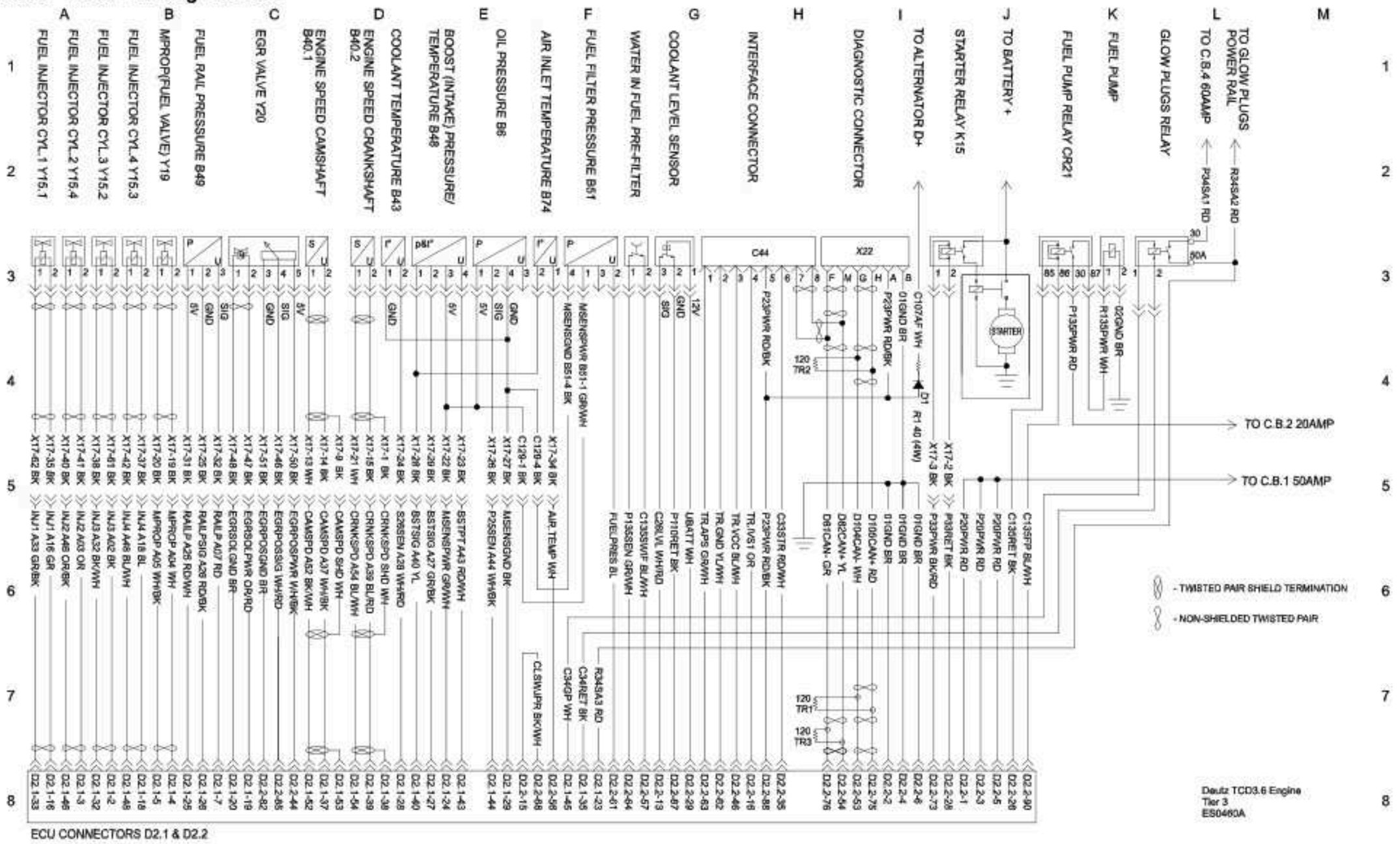
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Electrical Schematic - Deutz T4F Eng Harness



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Electrical Schematic - Deutz T3 Eng Harness



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