A TEREX COMPANY

Service and Repair Manual

Serial Number Range

Z®-80/60

from Z8013-4592 to
Z8016H-6399
from Z80H-6400

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 Torque Specifications

Platform Rotator	
1-8 center bolt, GR 5, dry (before SN 15-5630)	640 ft-lbs 867 Nm
1-8 center bolt, GR 5, dull gray (from SN 15-5630)	615 ft-lbs 834 Nm
3/8 -16 bolts, GR 8 *(use blue thread locking compound)	35 ft-lbs* 47.5 Nm*
Turntable rotate assembly	
Rotate bearing mounting bolts, lubricated	180 ft-lbs 244 Nm
Rotate drive hub mounting bolts, lubricated	80 ft-lbs 108 Nm
Backlash plate mounting bolts, lubricated	280 ft-lbs 379 Nm
Drive motors and hubs	
Drive hub mounting bolts, lubricated	160 ft-lbs 217 Nm*
Drive hub mounting bolts, dry	210 ft-lbs 284 Nm
Drive motor mounting bolts, dry	110 ft-lbs 149 Nm
Drive motor mounting bolts, lubricated *(use blue thread locking compound)	80 ft-lbs* 108.4 Nm*
Drive motor mounting bolts, dry	110 ft-lbs 149 Nm
Drive hub oil plug, O-ring seal	13 ft-lbs 18 Nm

Please refer to online supplemental Torque Specifications, SAE, Metric Manual for complete specifications.

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Fault Code Display - Deutz and Perkins Models

How to Retrieve Active Engine Fault Codes - Deutz TD2.9 L4 and Perkins 404F-22 Models

The ECM constantly monitors the engine by the use of sensors on the engine. The ECM also uses signals from the sensors to initiate sequential fuel injection and make constant and instantaneous changes to ignition timing, fuel delivery and throttle position to maintain the engine's running condition at its highest efficiency while at the same time keeping exhaust emissions to a minimum. When a sensor fails or returns signals that are outside of set parameters, the ECM will store a fault code in memory that relates to the appropriate sensor. The active fault code will also be displayed on the LCD screen.

Note: The Perkins 404F-22T is equipped with an engine fault LED located at the platform control box.

If an engine fault occurs that does not result in an engine shutdown, the engine rpm will go into limp home mode resulting in the loss of high rpm..

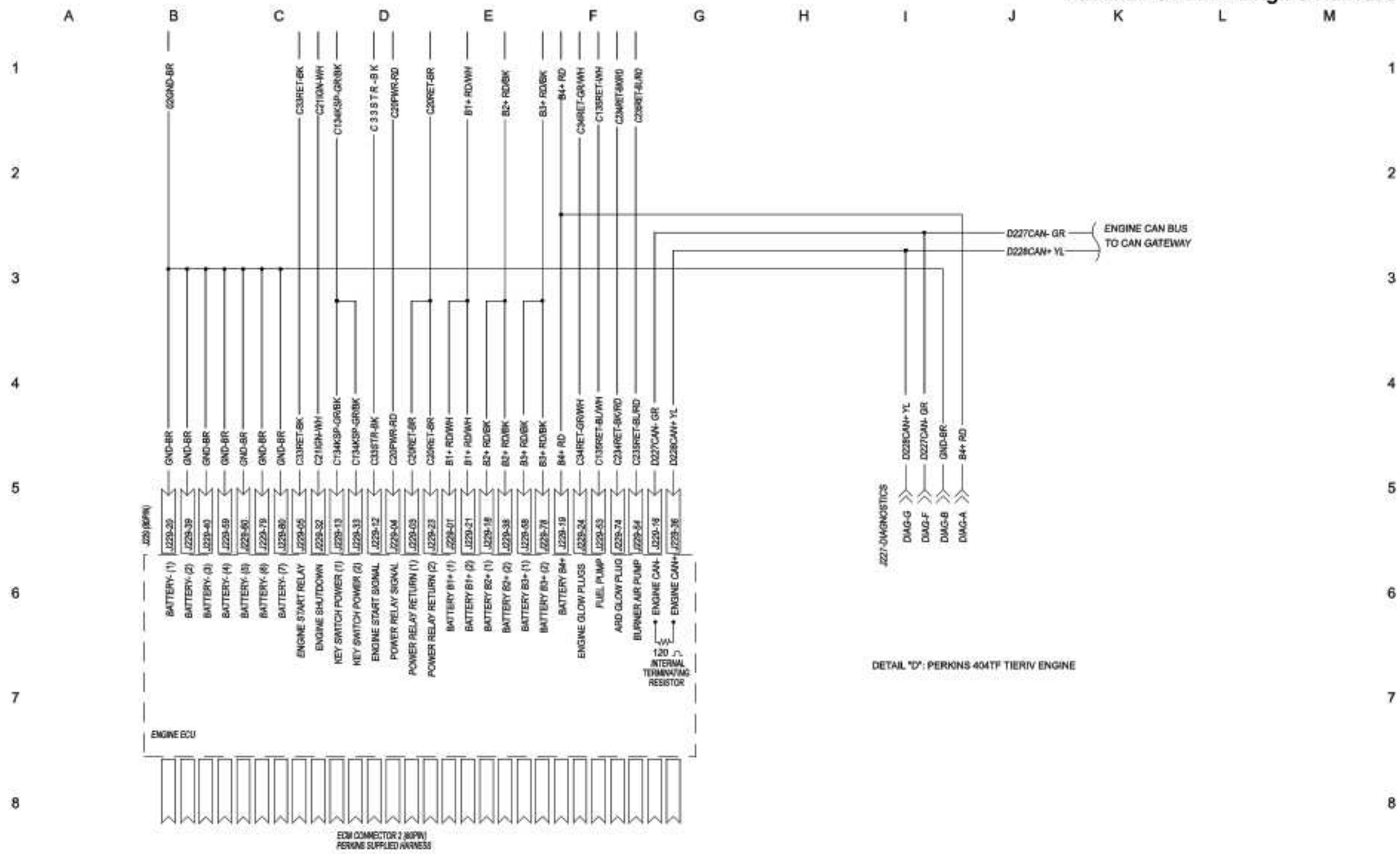
Start the engine from the ground control box and operate various boom functions to verify that an active engine fault occurs and is shown on the display.

Note: All faults are stored in the Previous Fault history menu. These faults will not be erased when corrective action has been completed.

Note: Software is available from the engine manufacturer to perform diagnosis through the engine diagnostic port. Contact the specific engine manufacturer.

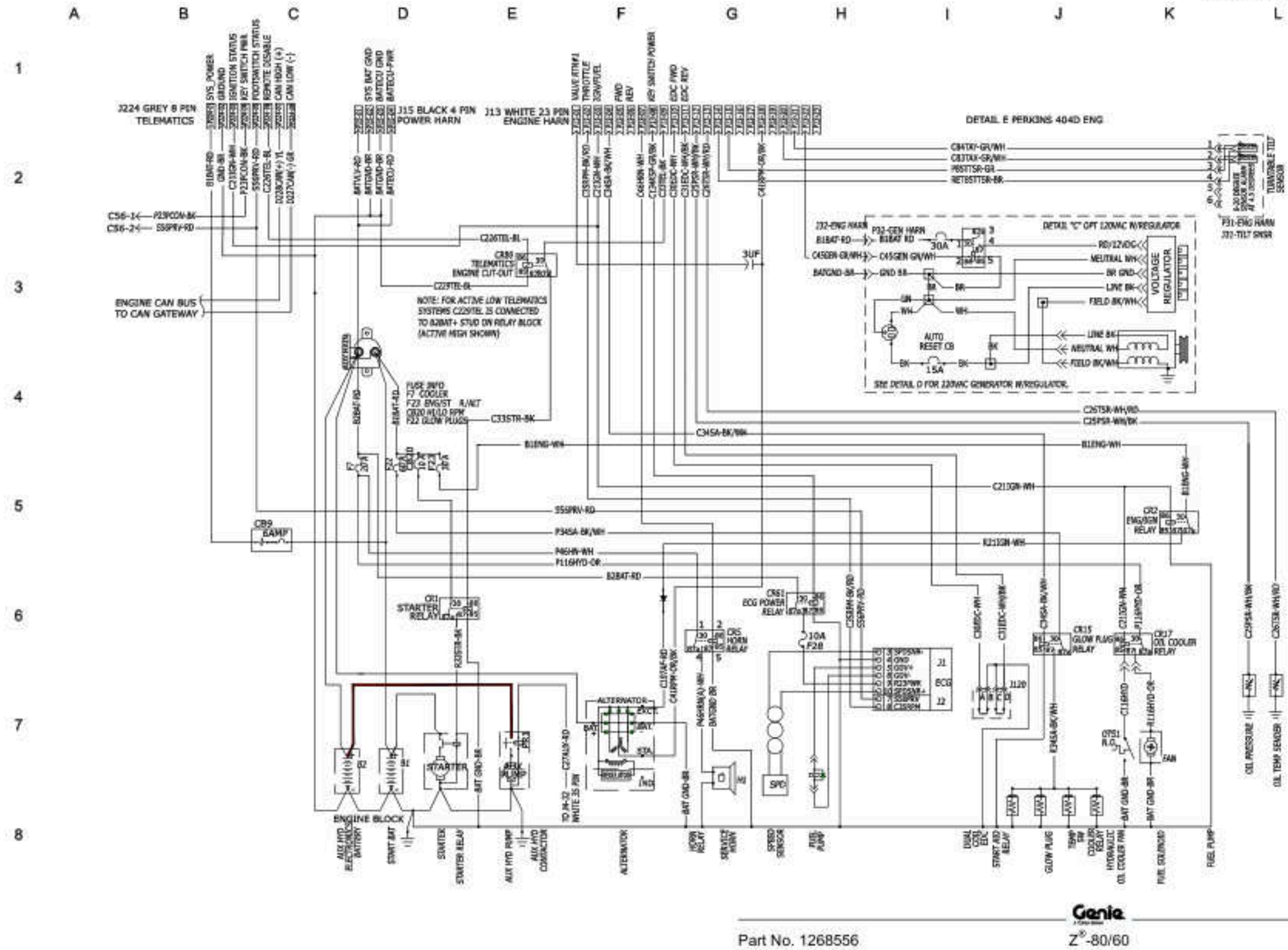
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Electrical Schematic - Engine Options, Perkins 404F-22T Engine Harness



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Electrical Schematic - Engine Options, Perkins 404D-22T Engine



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