A TEREX COMPANY

Service Manual

Serial Number Range

S-60
S-65
S-60 HC

from S6003-9154
to S6007-14781

Part No. 77828
Rev E1
January 2013

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SPECIFICATIONS

GM 3.0L EFI Engine

Displacement	181 cu in 3 liters
Number of cylinders	4
Bore & stroke	4 x 3.6 inches 101.6 x 91.44 mm
Horsepower	
Intermittent	67 @ 2300 rpm 50 kW @ 2300 rpm
Continuous	60 @ 2300 rpm 45 kW @ 2300 rpm
Firing order	1 - 3 - 4 - 2
Low idle	1650 rpm 386 Hz
High idle	2500 rpm 585 Hz
Compression ratio	9.25:1
Compression pressure - minimum Pressure (psi or bar) of lowest cylinder must be at least 75% of highest cylinder	100 psi 6.9 bar
Valve clearances	Zero lash + 1 full turn
Lubrication system	
Oil pressure, minimum (operating temp. @ 2000 rpm)	18 psi 1.24 bar
Oil capacity (including filter)	5 quarts 4.7 liters
Oil viscosity requirements	
Below 0° F / -17.8° C	5W-30
Above 0° F / -17.8° C	10W-30

Extreme operating temperatures may require the use of alternative engine oils. For oil requirements, refer to the Engine Operator Handbook on your machine.

Starter motor	
Normal engine cranking speed	350 rpm
Current draw, normal load	400A
Current draw, maximum load	600A
Current draw, minimum	100A
Battery	
Type	12V DC
Group	31
Quantity	1
Cold cranking ampere @ 0°F	1000A
Reserve capacity @ 25A rate	200 minutes
Electronic fuel pump	
Fuel pressure, static	9 to 11 psi 0.6 to 0.76 bar
Fuel flow rate	0.3 gpm 1.14 L/min
Fuel requirement	

For fuel requirements, refer to the engine Operator's Manual on your machine.

Ignition system	
Spark plug type	AC ACMR-43-LTS
Spark plug gap	0.040 inches 1.01 mm
Engine coolant	
Capacity	12 quarts 11.4 liters
Alternator output	66A @ 12V DC
Fan belt deflection	½ inch 12 mm

Continuous improvement of our products is a Genie policy. Product specifications are subject to change without notice.

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Fault Codes



Observe and Obey:

- ☑ Troubleshooting and repair procedures shall be completed by a person trained and qualified on the repair of this machine.
- ☑ Immediately tag and remove from service a damaged or malfunctioning machine.
- ☑ Repair any machine damage or malfunction before operating the machine.
- ☑ Unless otherwise specified, perform each repair procedure with the machine in the following configuration:
  - Machine parked on a firm, level surface
  - Boom in stowed position
  - Turntable rotated with the boom between the non-steer wheels
  - Turntable secured with the turntable rotation lock
  - Key switch in the off position with the key removed
  - Wheels chocked
  - All external AC power disconnected from the machine

Before Troubleshooting:

- ☑ Read, understand and obey the safety rules and operating instructions printed in the *Genie S-60 and S-65 Operator's Manual* or the *Genie S-60 HC Operator's Manual* on your machine.
- ☑ Be sure that all necessary tools and test equipment are available and ready for use.
- ☑ Read each appropiate fault code thoroughly. Attempting shortcuts may produce hazardous conditions.
- ☑ Be aware of the following hazards and follow generally accepted safe workshop practices.

⚠DANGER Crushing hazard. When testing or replacing any hydraulic component, always support the structure and secure it from movement.

⚠WARNING Electrocution/burn hazard. Contact with electrically charged circuits could result in death or serious injury. Remove all rings, watches and other jewelry.

⚠WARNING Bodily injury hazard. Spraying hydraulic oil can penetrate and burn skin. Loosen hydraulic connections very slowly to allow the oil pressure to dissipate gradually. Do not allow oil to squirt or spray.

Note: Perform all troubleshooting on a firm level surface.

Note: Two persons will be required to safely perform some troubleshooting procedures.

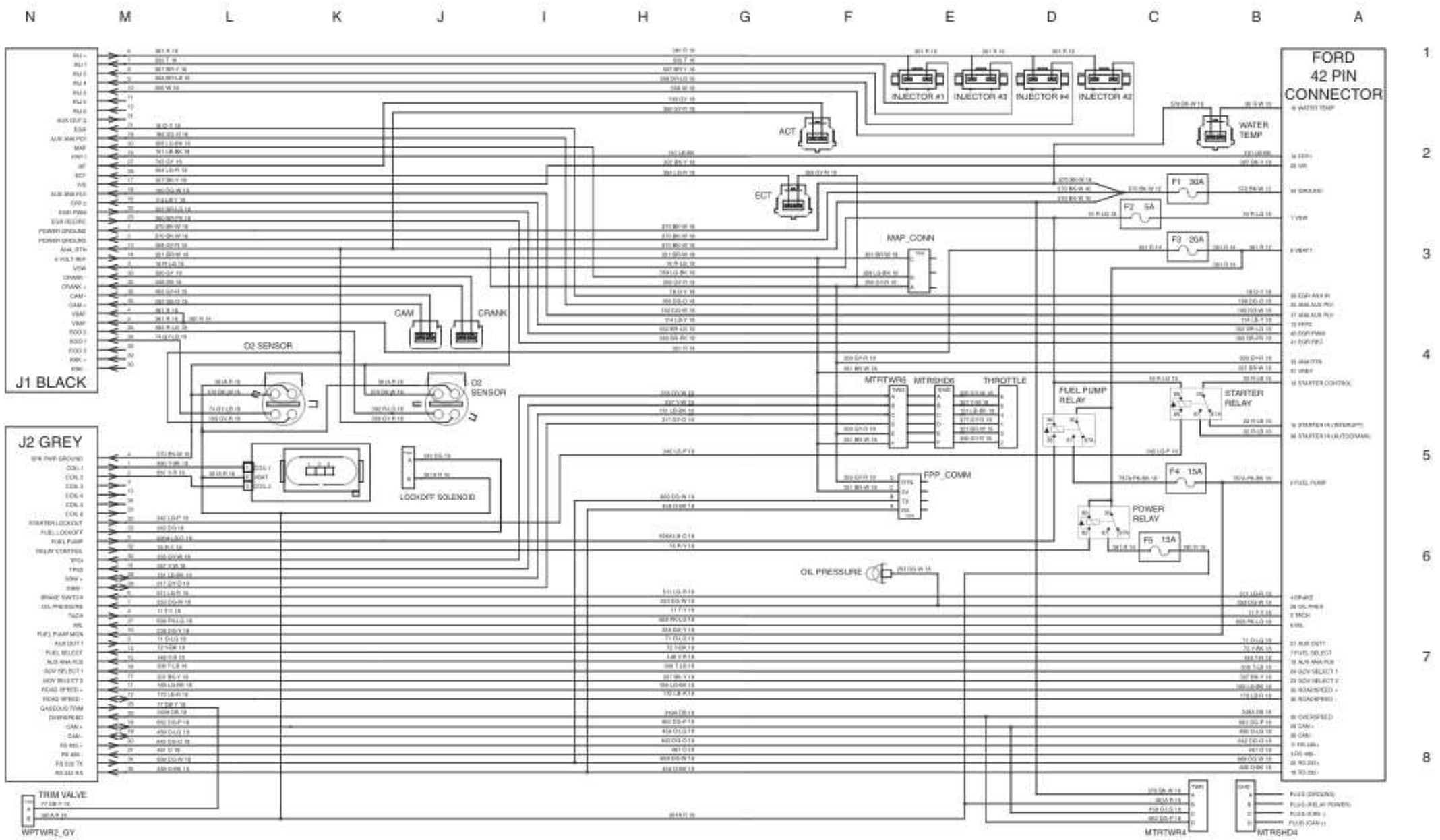
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Ground Control Box Terminal Strip Wiring Diagram, S-65

Perkins 404-22 Models (before serial number 11880)

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Ford LRG-425 EFI Engine Wire Harness



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