A TEREX COMPANY

Service Manual

Serial Number Range

S™80
S™85

from S8003-3738
to S8007-5380

Part No. 111165

Rev C1

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Table of Contents

Introduction

Important Information ii
Serial Number Information ii
Revision History iii
Serial Number Legend v

Section 1 **Safety Rules**

General Safety Rules vi

Section 2 **Specifications**

Machine Specifications ..... 2 - 1
Performance Specifications ..... 2 - 1
Hydraulic Specifications ..... 2 - 2
Manifold Component Specifications ..... 2 - 3
GM 3.0L EFI Engine Specifications ..... 2 - 4
Ford LRG-425 EFI Engine Specifications ..... 2 - 5
Deutz F4L-913 Engine Specifications ..... 2 - 7
Deutz BF4L-2011 Engine Specifications ..... 2 - 8
Perkins 804C-33 Engine Specifications ..... 2 - 10
Machine Torque Specifications ..... 2 - 11
Hydraulic Hose and Fitting Torque Specifications ..... 2 - 12
SAE and Metric Torque Specifications ..... 2 - 13

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TABLE OF CONTENTS

Section 3 **Scheduled Maintenance Procedures**

Introduction ..... 3 - 1

Pre-Delivery Preparation ..... 3 - 3

Maintenance Inspection Report ..... 3 - 5

Checklist A Procedures

A-1 Inspect the Manuals and Decals ..... 3 - 7

A-2 Perform Pre-operation Inspection ..... 3 - 8

A-3 Perform Function Tests ..... 3 - 8

A-4 Perform Engine Maintenance ..... 3 - 9

A-5 Check the Hydraulic Filter Condition Indicators ..... 3 - 10

A-6 Grease the Extendable Axles ..... 3 - 11

A-7 Test the Oscillate Axle ..... 3 - 11

A-8 Test the Extendable Axles ..... 3 - 12

A-9 Perform 30 Day Service ..... 3 - 13

A-10 Perform Engine Maintenance - Deutz Models ..... 3 - 13

A-11 Inspect the Fuel Filter/Water Separator - Deutz and Perkins Models ..... 3 - 14

A-12 Grease the Turntable Rotation Bearing and Rotate Gear ..... 3 - 15

A-13 Perform Engine Maintenance ..... 3 - 15

A-14 Perform Engine Maintenance- Deutz Models ..... 3 - 16

A-15 Replace the Drive Hub Oil ..... 3 - 17

A-16 Perform Engine Maintenance - GM, Ford and Perkins Models ..... 3 - 18

Checklist B Procedures

B-1 Inspect the Battery(s) ..... 3 - 19

B-2 Inspect the Electrical Wiring ..... 3 - 20

B-3 Test the Key Switch ..... 3 - 22

B-4 Check the Exhaust System ..... 3 - 22

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TABLE OF CONTENTS

Section 3 **Scheduled Maintenance Procedures**, continued

B-5 Inspect the Engine Air Filter ..... 3 - 23
B-6 Check the Oil Cooler and Cooling Fins - Deutz Models ..... 3 - 24
B-7 Confirm the Proper Brake Configuration ..... 3 - 25
B-8 Inspect the Tires, Wheels and Lug Nut Torque ..... 3 - 26
B-9 Check the Drive Hub Oil Level and Fastener Torque ..... 3 - 27
B-10 Check and Adjust the Engine RPM ..... 3 - 28
B-11 Perform Engine Maintenance ..... 3 - 30
B-12 Check the Oscillate Directional Valve Linkage ..... 3 - 31
B-13 Test the Ground Control Override ..... 3 - 31
B-14 Test the Platform Self-leveling ..... 3 - 32
B-15 Test the Engine Idle Select Operation ..... 3 - 32
B-16 Test the Fuel Select Operation - GM and Ford Models ..... 3 - 33
B-17 Test the Drive Enable System ..... 3 - 34
B-18 Test the Drive Brakes ..... 3 - 35
B-19 Test the Drive Speed - Stowed Position ..... 3 - 36
B-20 Test the Drive Speed - Raised or Extended Position ..... 3 - 36
B-21 Test the Alarm Package (if equipped) ..... 3 - 37
B-22 Inspect the Fuel and Hydraulic Tank Cap Venting Systems ..... 3 - 38
B-23 Perform Hydraulic Oil Analysis ..... 3 - 39
B-24 Perform Engine Maintenance - GM and Ford Models ..... 3 - 40

Checklist C Procedures

C-1 Perform Engine Maintenance - Deutz and Perkins Models ..... 3 - 41
C-2 Grease the Platform Overload Mechanism (if equipped) ..... 3 - 42
C-3 Test the Platform Overload System (if equipped) ..... 3 - 42
C-4 Replace the Engine Air Filter Element - Deutz and Perkins Models ..... 3 - 45
C-5 Replace the Fuel Filter/ Water Separator Element - Deutz and Perkins Models ..... 3 - 45
C-6 Perform Engine Maintenance - GM and Ford Models ..... 3 - 47

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Specifications

Machine Specifications

Tires and wheels	
Tire size	15-22.5 SAT 385/65-22.5
Tire ply rating	16
Overall tire diameter	43.5 in 110.5 cm
Tire pressure	100 psi 6.9 bar
Wheel diameter	22.5 in 57 cm
Wheel width	11.75 in 29.8 cm
Wheel lugs	10 @ 3/4 -16
Lug nut torque, dry	420 ft-lbs 569 Nm
Lug nut torque, lubricated	310 ft-lbs 420 Nm

Fluid capacities	
Fuel tank	30 gallons 114 liters
LPG tank	33.5 pounds 15.2 kg
Hydraulic tank	45 gallons 170 liters
Hydraulic system (including tank)	57 gallons 215 liters
Turntable rotation drive hub	40 fl oz 1.2 liters
Rexroth drive hubs	61 fl oz 1.8 liters
Bonfiglioli drive hubs	51 fl oz 1.5 liters

Drive hub oil type:
SAE 90 multipurpose hypoid gear oil
API service classification GL5

For operational specifications, refer to the

Performance Specifications

Drive speed, maximum	
Stowed position	40 ft / 7.9-8.5 sec 12.2 m / 7.9-8.5 sec
Raised or extended position	40 ft / 40-45 sec 12.2 m / 40-45 sec

Braking distance, maximum	
High range on paved surface	3 ft 90 cm

Gradeability	Refer to the Operator's Manual

Boom function speeds, maximum from platform controls	
Jib boom up (S-85)	60 to 70 seconds
Jib boom down (S-85)	40 to 50 seconds
Boom up	89 to 93 seconds
Boom down	90 to 94 seconds
Boom extend	73 to 79 seconds
Boom retract	79 to 84 seconds
Turntable rotate, 360° boom fully stowed	95 to 103 seconds
Turntable rotate, 360° boom raised or extended	210 to 250 seconds
Platform rotate, 160°	8 to 12 seconds
Platform level up	50 to 60 seconds
Platform level down	40 to 50 seconds

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-80 and Genie S-85 Operator's Manual*.
- ☑ 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.

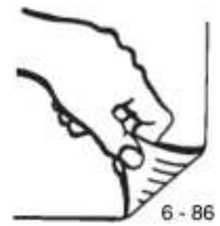
Note: Two persons will be required to safely perform some troubleshooting procedures.

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Ground Control Box Wiring Diagram, S-85

Ford LRG-425 EFI

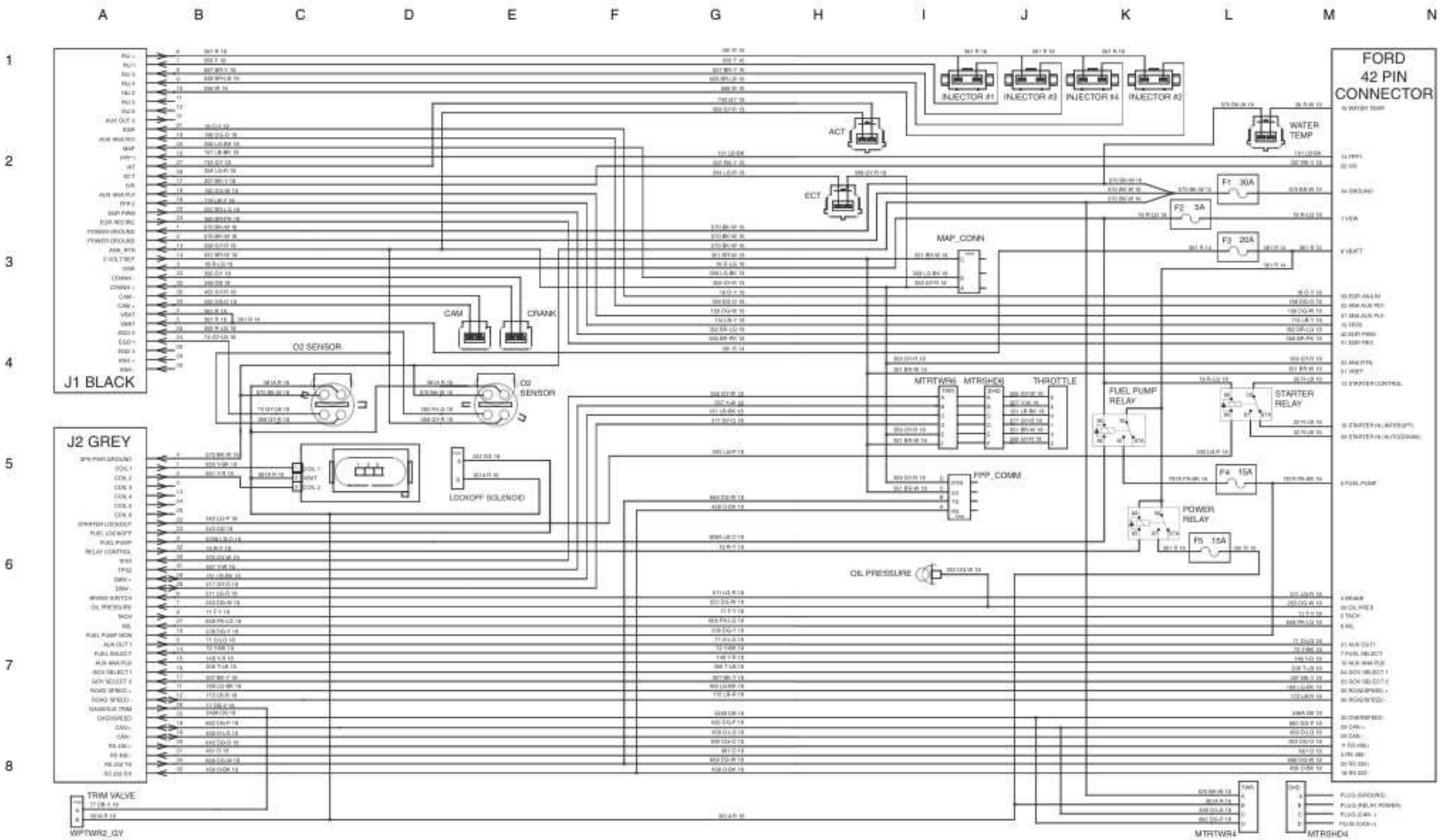




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Ford LRG-425 EFI Engine Wiring Harness



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