A TEREX COMPANY

A TEREX BRAND

# Service Manual

Serial Number Range

## GTH-2506

***(Deutz Stage IIIA - IIIB)***

From GTH250619M-1001
to GTH250619M-1200

## GTH-3007

***(Deutz Stage IIIA - IIIB)***

From GTH300719M-501
to GTH300719M-600

Part No. 57.4400.9220GT

Rev A

August 2018

MidWestTech | Terex Genie GTH-2506, GTH-3007 Deutz Stage IIIA, IIIB Telescopic Forklift Service Manual | Publication 57.4400.9220GT

Order the manual at mid-west-tech.com >

# Table of Contents

**Introduction**

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

**Section 1** **Safety Rules**

General Safety Rules ..... vii

**Section 2** **Specifications**

Machine Specifications ..... 2 - 1
Performance Specifications ..... 2 - 2
Hydraulic Specifications ..... 2 - 3
Hydraulic Component Specifications ..... 2 - 4
Function Manifold Specifications ..... 2 - 5
Air Conditioner Refrigerant Specifications ..... 2 - 5
Deutz TD 2.9 L4 Engine ..... 2 - 6
Dana Axles ..... 2 - 7
Hydraulic Hose and Fitting Torque Specifications ..... 2 - 8
Torque Procedure ..... 2 - 9
SAE and Metric Fasteners Torque Charts ..... 2 - 10

**Section 3** **Scheduled Maintenance Procedures**

Introduction ..... 3 - 1
Pre-delivery Preparation Report ..... 3 - 3
Maintenance Inspection Report ..... 3 - 4



MidWestTech | Terex Genie GTH-2506, GTH-3007 Deutz Stage IIIA, IIIB Telescopic Forklift... Order the manual at mid-west-tech.com >

TABLE OF CONTENTS

**Section 3** **Scheduled Maintenance Procedures**, continued

**Checklist A Procedures**

A-1 Inspect the Manuals and Decals ..... 3 - 5
A-2 Perform Pre-operation Inspection ..... 3 - 6
A-3 Perform Function Tests ..... 3 - 6
A-4 Lubricate the Boom ..... 3 - 7
A-5 Perform Engine Maintenance ..... 3 - 7
A-6 Safety Devices ..... 3 - 8
A-7 Perform 30 Day Service ..... 3 - 8
A-8 Perform Axle Maintenance ..... 3 - 9
A-9 Perform Axle Maintenance ..... 3 - 9
A-10 Perform Axle Maintenance ..... 3 - 10

**Checklist B Procedures**

B-1 Inspect the Electrical Wiring ..... 3 - 11
B-2 Check the Exhaust System ..... 3 - 12
B-3 Inspect the Tires, Wheels and Lug Nut Torque ..... 3 - 12
B-4 Perform Hydraulic Oil Analysis ..... 3 - 13
B-5 Check the Boom Wear Pads ..... 3 - 14
B-6 Perform Axle Maintenance ..... 3 - 15



MidWestTech | Terex Genie GTH-2506, GTH-3007 Deutz Stage IIIA, IIIB Telescopic Forklift... Order the manual at mid-west-tech.com >

**Section 3** **Scheduled Maintenance Procedures**, continued

**Checklist C Procedures**

C-1 Perform Engine Maintenance....3 - 16

**Checklist D Procedures**

D-1 Inspect the Forks....3 - 17

D-2 Replace the Hydraulic Tank Return Filter Element....3 - 18

D-3 Perform Engine Maintenance....3 - 19

D-4 Perform Axle Maintenance....3 - 19

D-5 Inspect the Engine Air Filter....3 - 20

D-6 Perform Engine Maintenance....3 - 21

**Checklist E Procedures**

E-1 Test or Replace the Hydraulic Oil....3 - 22

E-2 Perform Engine Maintenance....3 - 23

E-3 Perform Engine Maintenance....3 - 23

E-4 Perform Engine Maintenance....3 - 24



MidWestTech | Terex Genie GTH-2506, GTH-3007 Deutz Stage IIIA, IIIB Telescopic Forklift... Order the manual at mid-west-tech.com >

# Specifications

## Machine Specifications

| Fluid Capacities GTH-2506 | |
|---|---|
| Fuel Tank | 15.9 gallons<br>60 liters |
| Hydraulic tank | 17.2 gallons<br>65 liters |
| Hydraulic system (including tank) | 25 gallons<br>95 liters |

| Fluid Capacities GTH-3007 | |
|---|---|
| Fuel Tank | 23.7 gallons<br>90 liters |
| Hydraulic tank | 19.8 gallons<br>75 liters |
| Hydraulic system (including tank) | 27.7 gallons<br>105 liters |

**For operational specifications, refer to the Operator's Manual.**

| Tires and wheels GTH-2506 | |
|---|---|
| Tire size | 12 x 16.5 |
| Tire ply rating | 10 |
| Weight, rough terrain tire wheel (air filled) | 106 lbs<br>48 kg |
| Weight, rough terrain tire wheel (foam filled) | 320 lbs<br>145 kg |
| Weight, rough terrain solid tire wheel | 278 lbs<br>126 kg |
| Tire pressure (models with air-filled tires) | 65 psi<br>4.5 bar |
| Lug nut torque | 243 ft-lbs<br>330 Nm |
| Lug pattern | 8 x 10.827 |
| Wheel diameter | 32.3 in<br>820 mm |
| Wheel width | 12.3 in<br>313 mm |

| Tires and wheels GTH-3007 | |
|---|---|
| Tire size | 405/70 20 |
| Tire ply rating | 14 |
| Weight, rough terrain tire wheel (air filled) | 214,95 lbs<br>97.5 kg |
| Tire pressure (models with air-filled tires) | 80 psi<br>5.5 bar |
| Lug nut torque | 243 ft-lbs<br>330 Nm |
| Lug pattern | 8 x 10.827 |
| Wheel diameter | 42.3 in<br>1076 mm |
| Wheel width | 15.9 in<br>405 mm |

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



MidWestTech | Terex Genie GTH-2506, GTH-3007 Deutz Stage IIIA, IIIB Telescopic Forklift... Order the manual at mid-west-tech.com >

# 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 the stowed position
  - Key switch in the off position with the key removed
  - Wheels chocked

## Before Troubleshooting:

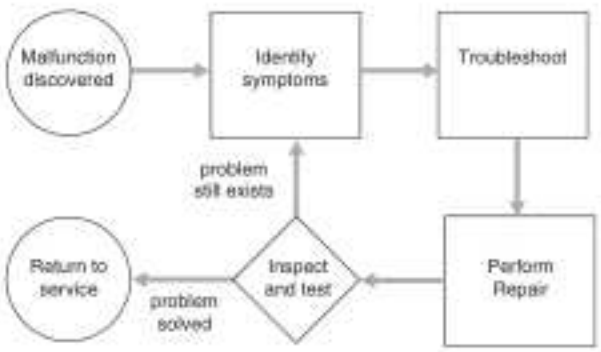
- ☑ Read, understand and obey the safety rules and operating instructions in the appropriate operator's manual on your machine.
- ☑ Be sure that all necessary tools and test equipment are available and ready for use.
- ☑ Be aware of the following hazards and follow generally accepted safe workshop practices.

**⚠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.

General Repair Process






MidWestTech | Terex Genie GTH-2506, GTH-3007 Deutz Stage IIIA, IIIB Telescopic Forklift... Order the manual at mid-west-tech.com >

# Schematics

## 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.

## Before Troubleshooting:

- ☑ Read, understand and obey the safety rules and operating instructions in the appropriate operator's manual on your machine.
- ☑ Be sure that all necessary tools and test equipment are available and ready for use.

## About This Section

There are two groups of schematics in this section.

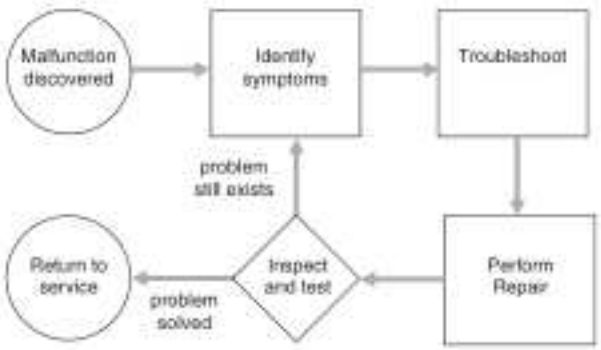
Electrical Schematics

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

Hydraulic Schematics

**⚠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.

General Repair Process

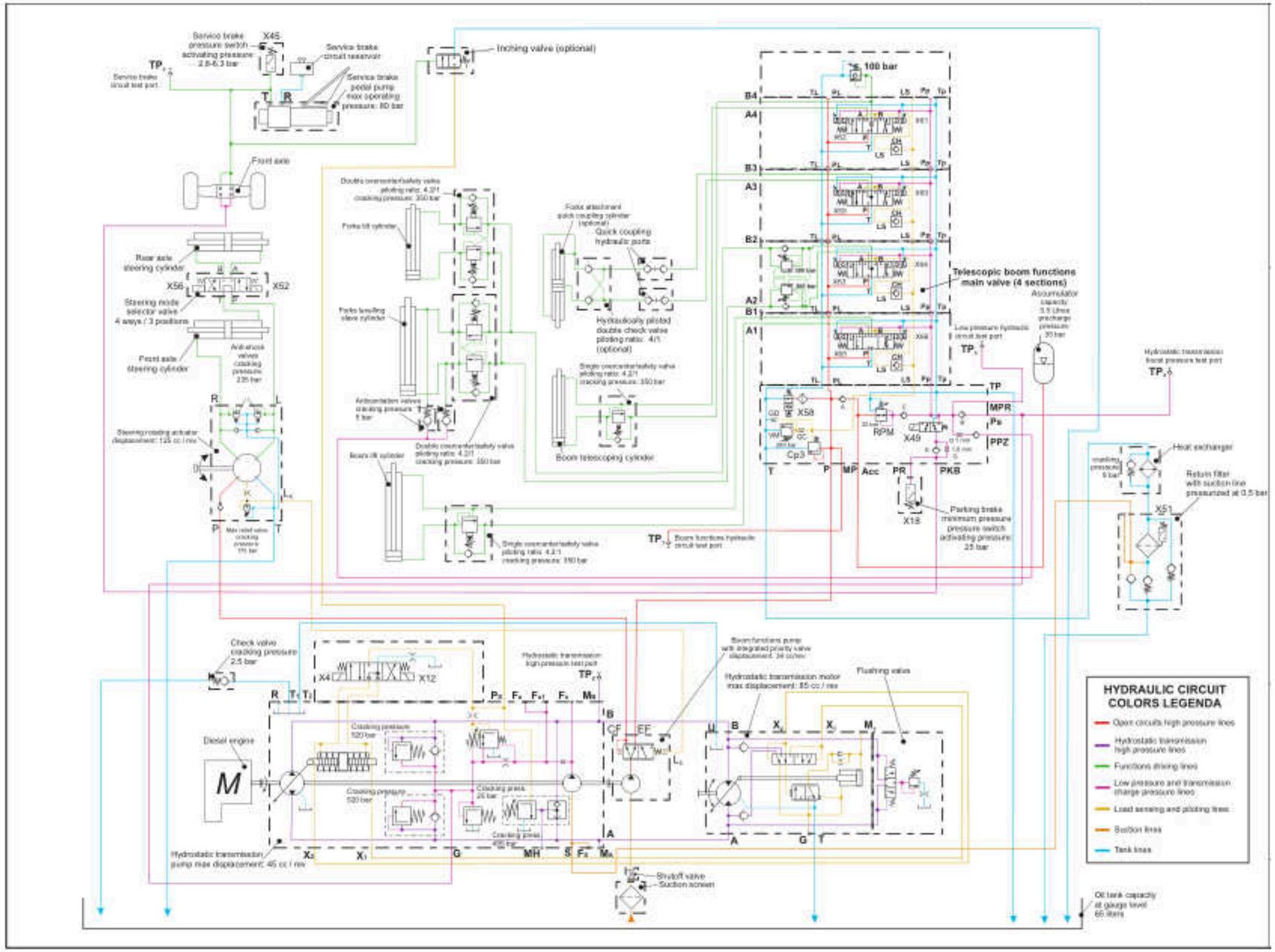





MidWestTech | Terex Genie GTH-2506, GTH-3007 Deutz Stage IIIA, IIIB Telescopic Forklift... Order the manual at mid-west-tech.com >

From GTH300719M-501

# Hydraulic Schematic - GTH-3007






MidWestTech | Terex Genie GTH-2506, GTH-3007 Deutz Stage IIIA, IIIB Telescopic Forklift Service Manual | Publication 57.4400.9220GT

Order the manual at mid-west-tech.com >