Genie®
A TEREX COMPANY

Service and Repair Manual

GTH-1544 *(Perkins Tier 4i)*

Serial Number Range

From GTH1513B-001
To GTH1515B-339

From GTH1516M-340
To GTH1516M-599

From GTH15M-600

GTH-1544 *(Deutz Tier 4i)*

From GTH1513B-001
To GTH1515B-339
plus 24273

From GTH1516M-340
To GTH1516M-599

From GTH15M-600

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 Specifications

Fluid capacities	
Fuel tank	47 gallons 180 liters
Hydraulic tank	48 gallons 182 liters
Hydraulic system (including tank)	77 gallons 290 liters

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

Tires and wheels	
Tire size	17.5 x 25
Tire ply rating	22
Weight, rough terrain tire (air filled)	427 lbs 194 kg
Weight, rough terrain tire (foam filled)	1275 lbs 578 kg
Tire pressure (models with air-filled tires)	87 psi 6 bar
Lug nut torque	465 ft-lbs 630 Nm
Lug pattern	10 x 13.189
Wheel diameter	53 in 135 cm
Wheel width	18 in 46.5 cm

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

Before Troubleshooting:

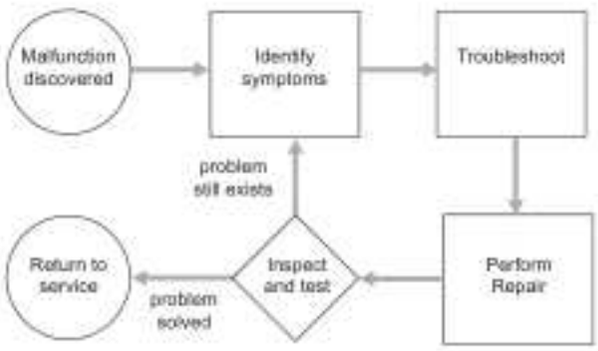
- ☑ Read, understand and obey the safety rules and operating instructions in the appropriate operator's manual on your machine.
- ☑ Be sure that all necessary tools and test equipment are available and ready for use.
- ☑ Be aware of the following hazards and follow generally accepted safe workshop practices.

⚠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



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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. An illustration legend precedes each group of drawings.

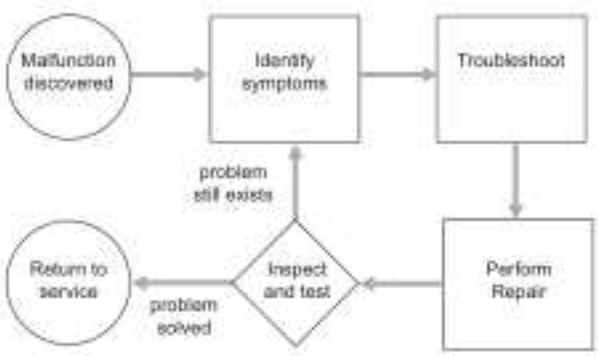
Electrical Schematics

⚠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

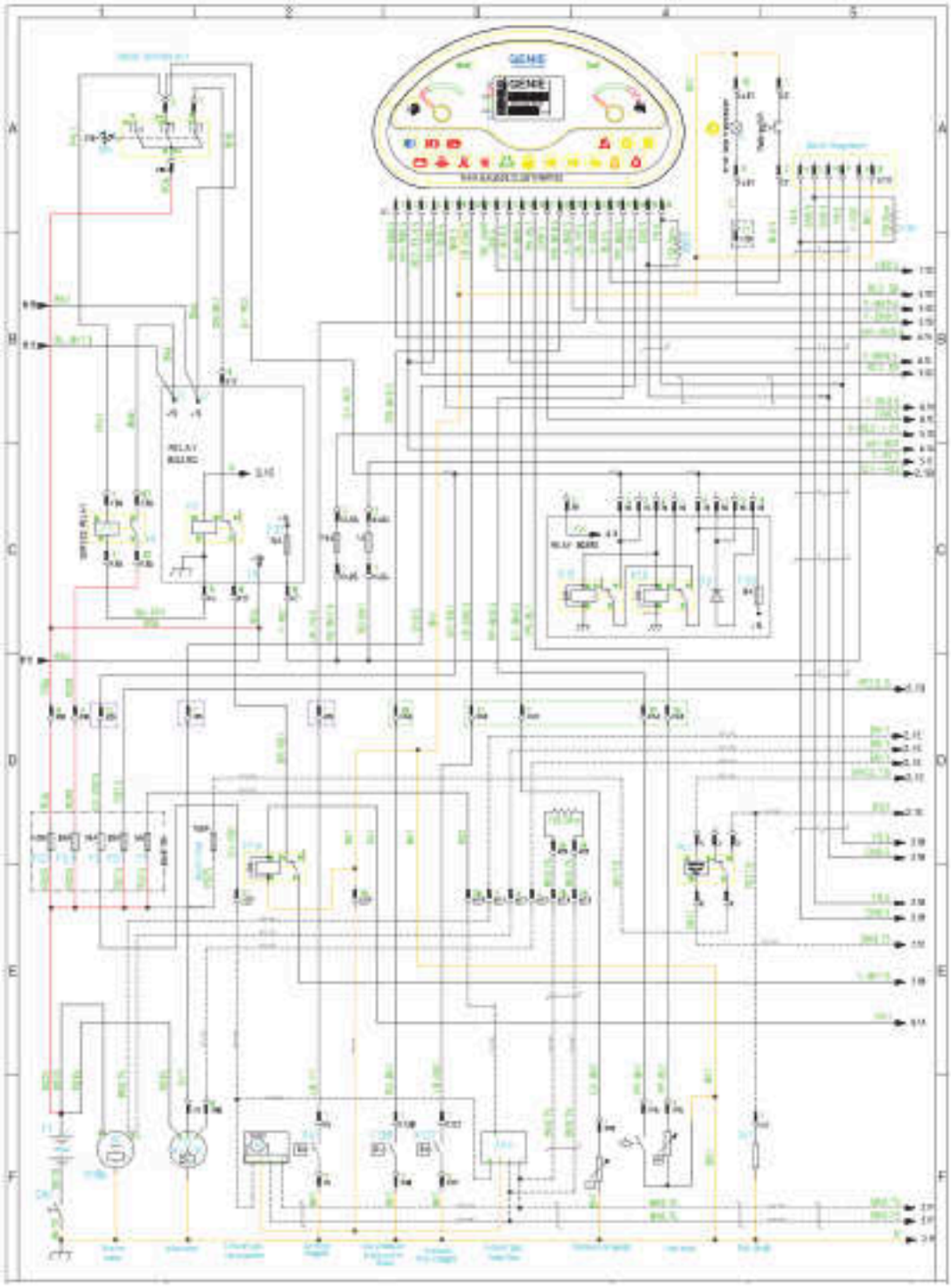


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Electrical Schematic - Deutz

Up to SN GTH1513 B-5

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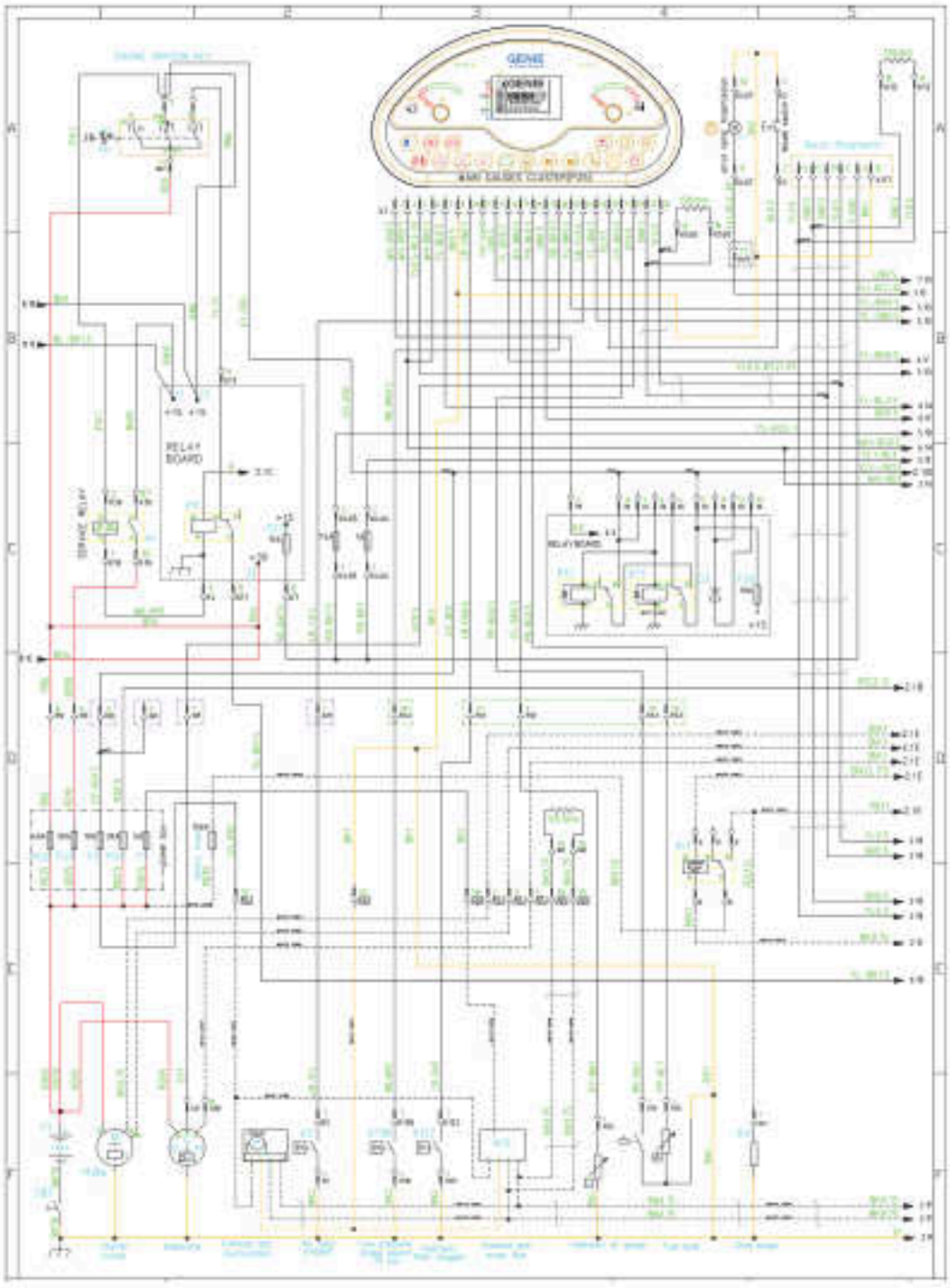


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ELECTRICAL SCHEMATIC - DEUTZ

From SN GTH1513 B-6

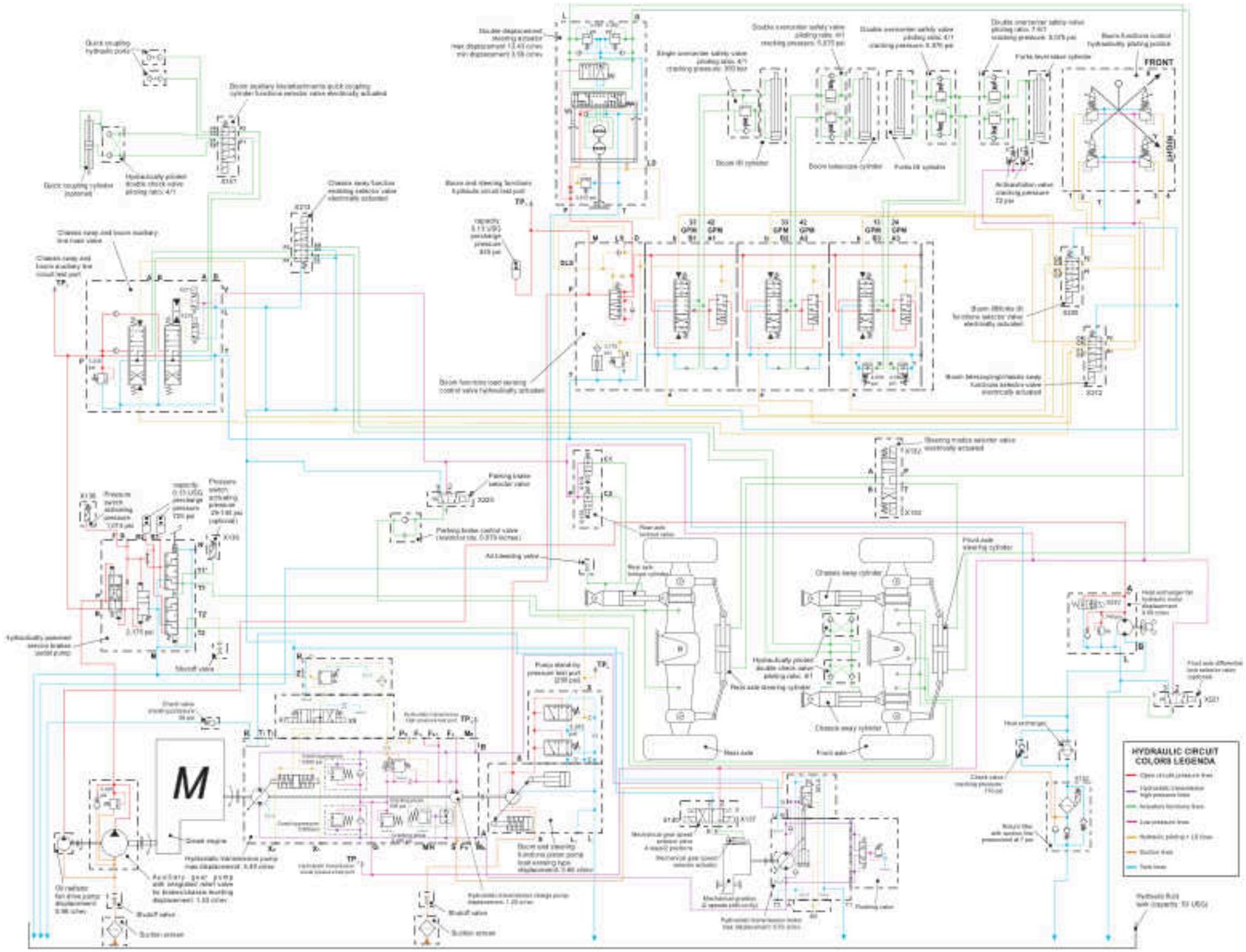
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Hydraulic Schematic - Perkins Engine

Perkins engine - Sheet 1 of 2



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