Genie®
A TEREX COMPANY

A TEREX BRAND

Service Manual

Serial Number Range

GTH-4014
From GTH401414-101

GTH-4018
From GTH401814-101

Part No. 57.4400.9211
Rev B
July 2015

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Specifications

Machine Specifications

Fluid capacities	
Fuel tank	45 gallons 170 liters
Hydraulic tank	29.6 gallons 112 liters
Hydraulic system (including tank)	42.5 gallons 161 liters

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

GTH-4014 tires and wheels	
Tire size	405/70-20
Tire ply rating	14
Weight, rough terrain tire (air filled)	253 lbs 115 kg
Weight, rough terrain tire (foam filled)	645 lbs 306 kg
Tire pressure (models with air-filled tires)	65 psi 4,5 bar
Lug nut torque	220 ft-lbs 300 Nm
Lug pattern	8 x 10.827 (275 mm)
Wheel diameter	43.6 in 111 cm
Wheel width	17.1 in 43.5 cm

GTH-4018 tires and wheels	
Tire size	405/70-24
Tire ply rating	14
Weight, rough terrain tire (air filled)	265 lbs 120 kg
Weight, rough terrain tire (foam filled)	782 lbs 355 kg
Tire pressure (models with air-filled tires)	80 psi 5,5 bar
Lug nut torque	220 ft-lbs 300 Nm
Lug pattern	8 x 10.827 (275 mm)
Wheel diameter	46.8 in 118 cm
Wheel width	16.6 in 42.1 cm

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How to Disassemble and Reassemble the Boom Electrical Harness - GTH-4018 Models

Note: Electrical harnesses pass inside the boom and are divided into 3 subassemblies; moreover there are two connection points inside the boom.

Harness subassembly "**a**" removal

1 Raise the boom to a horizontal position and fully extend it.

2 At the fork end of the boom, disconnect connectors "**c**".

3 Disconnect the harness connectors "**c**" from the wires of the harness subassembly "**a**" and then remove all wire terminals.

4 Replace the harness connectors with a cord of at least 395 inches / 10000 mm.

5 Remove cover "**h**".

6 Disconnect connectors "**b**" that connect the harness subassembly "**a**" to subassembly "**g**".

7 Remove all connectors "**b**" and wire terminals from the harness subassembly "**a**".

8 Cut and remove the cable ties securing the electrical harness near connectors "**b**".

9 Pull the cord to remove the harness subassembly "**a**" from the hole of cover "**h**" previously removed.

10 Disconnect the cord from the harness subassembly "**a**" and attach it to one end of the new harness subassembly.

Note: For this procedure, two operators are needed: one standing near connectors "**c**" and the other near cover "**h**".

11 Pull the cord towards the fork end of the boom until the replacement harness subassembly comes out of the hole near connectors "**c**".

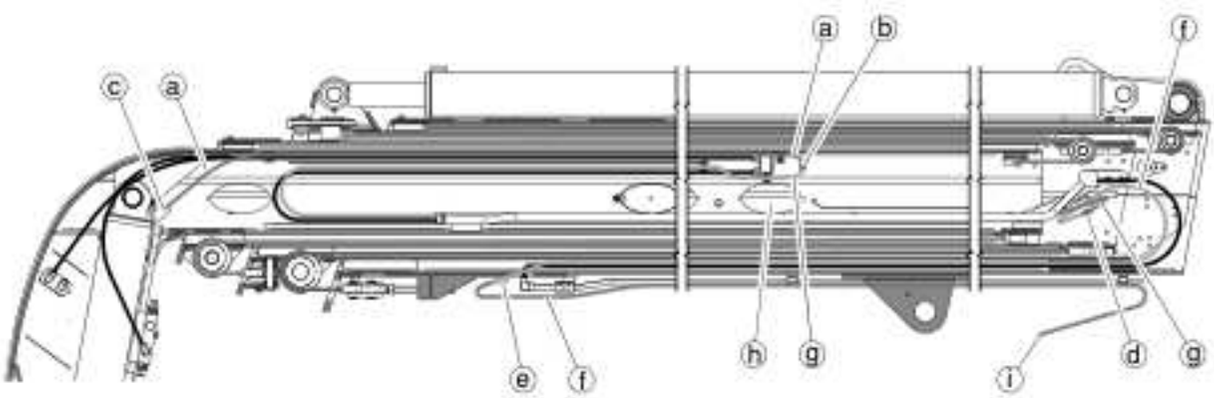
12 Refit all wire terminals and connect the wires to connectors "**b**".

13 Reconnect the new harness subassembly "**a**" to subassembly "**g**".

14 Secure the new harness subassembly with new cable ties.

15 Install cover "**h**" back in place on the boom.

16 Refit all wire terminals and connect the wires to connectors "**c**".



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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:

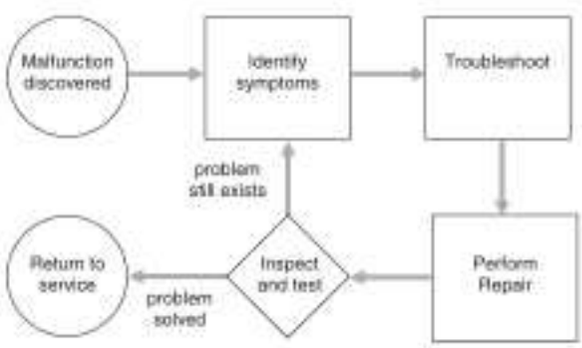
- ☑ Read, understand and obey the safety rules and operating instructions in the appropriate operator's manual on your machine.
- ☑ Be sure that all necessary tools and test equipment are available and ready for use.
- ☑ Be aware of the following hazards and follow generally accepted safe workshop practices.

⚠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



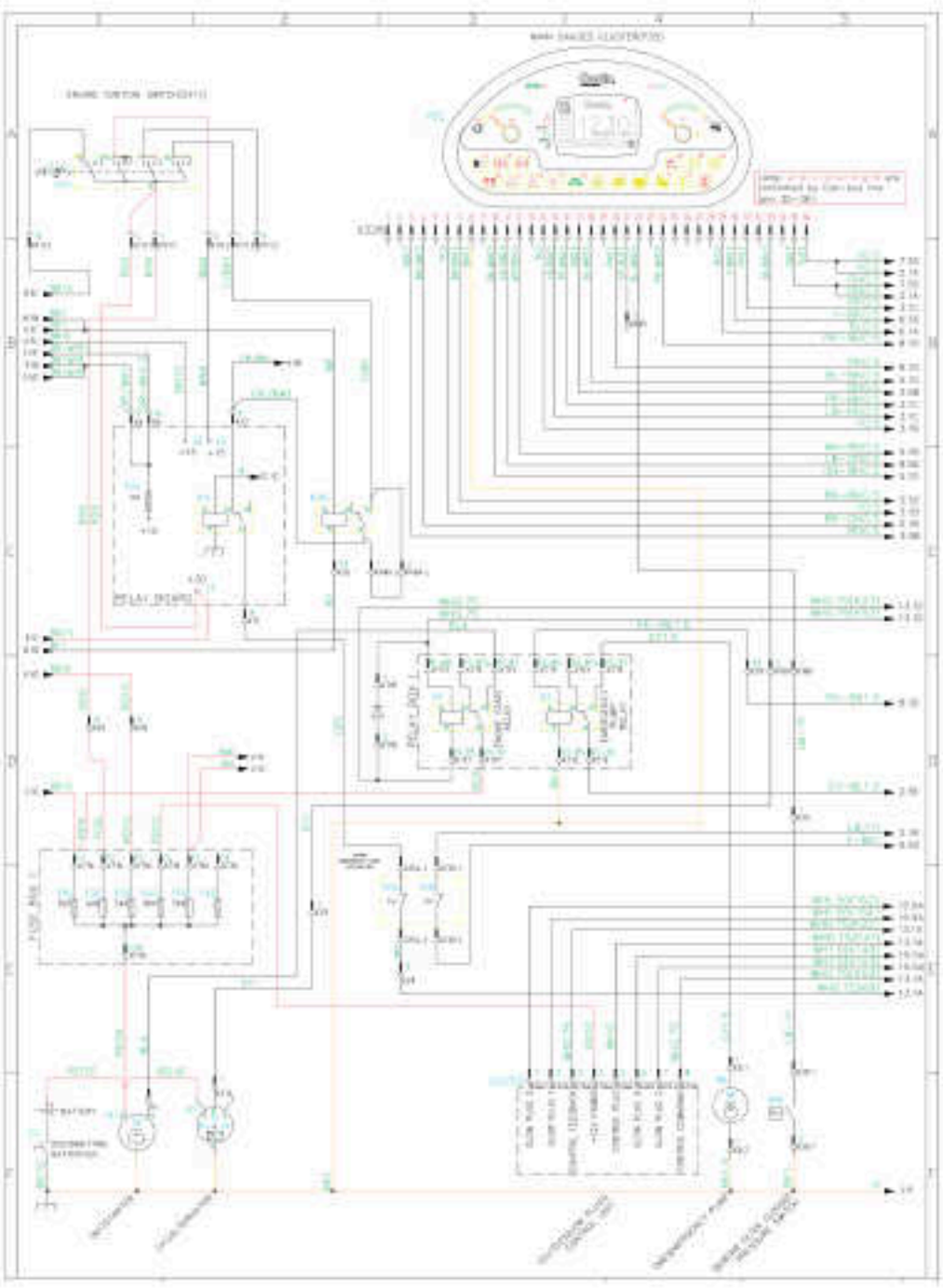
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Stage 3B

Electrical Schematic

From GTH401414-101
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How to Replace the Boom Retract Chains - GTH-4018 Models

Note: Perform this procedure on a firm, level surface with the wheels chocked.

1 Start the engine and allow the engine to idle.

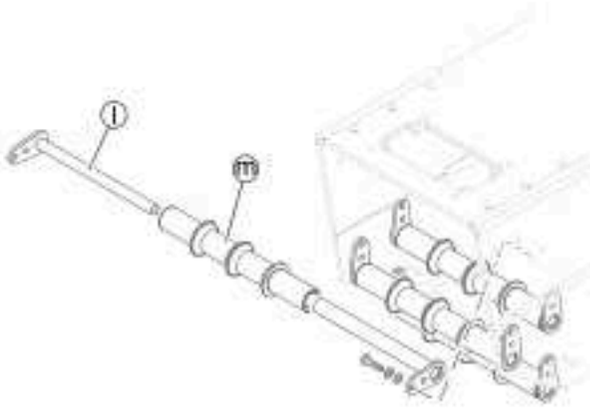
2 Raise the boom to a horizontal position.

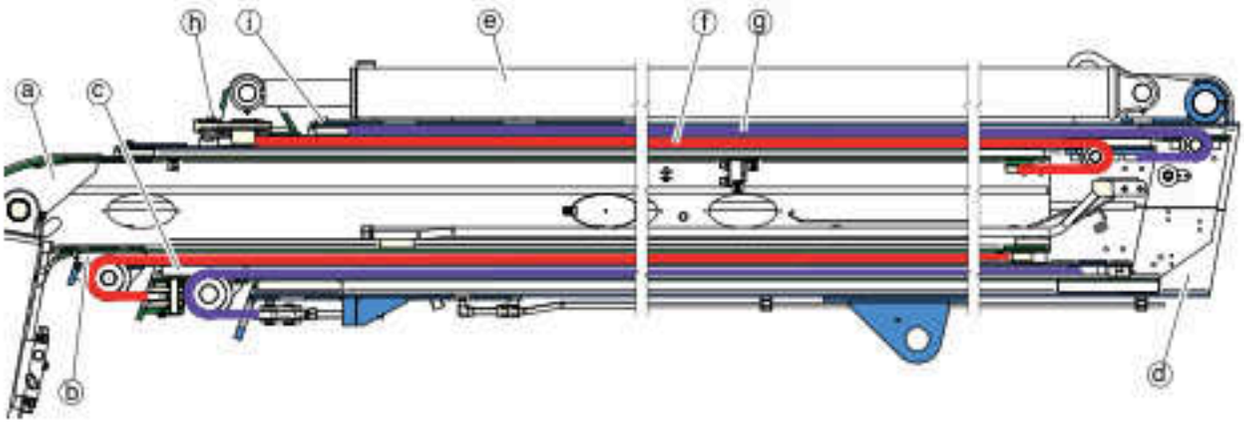
3 Fully retract the boom.

4 Turn the machine off and remove the key from the key switch.

5 At the pivot end of the boom, remove pins "l" and pulleys "m".

6 Remove the upper screws securing the upper chains "f" - "g".



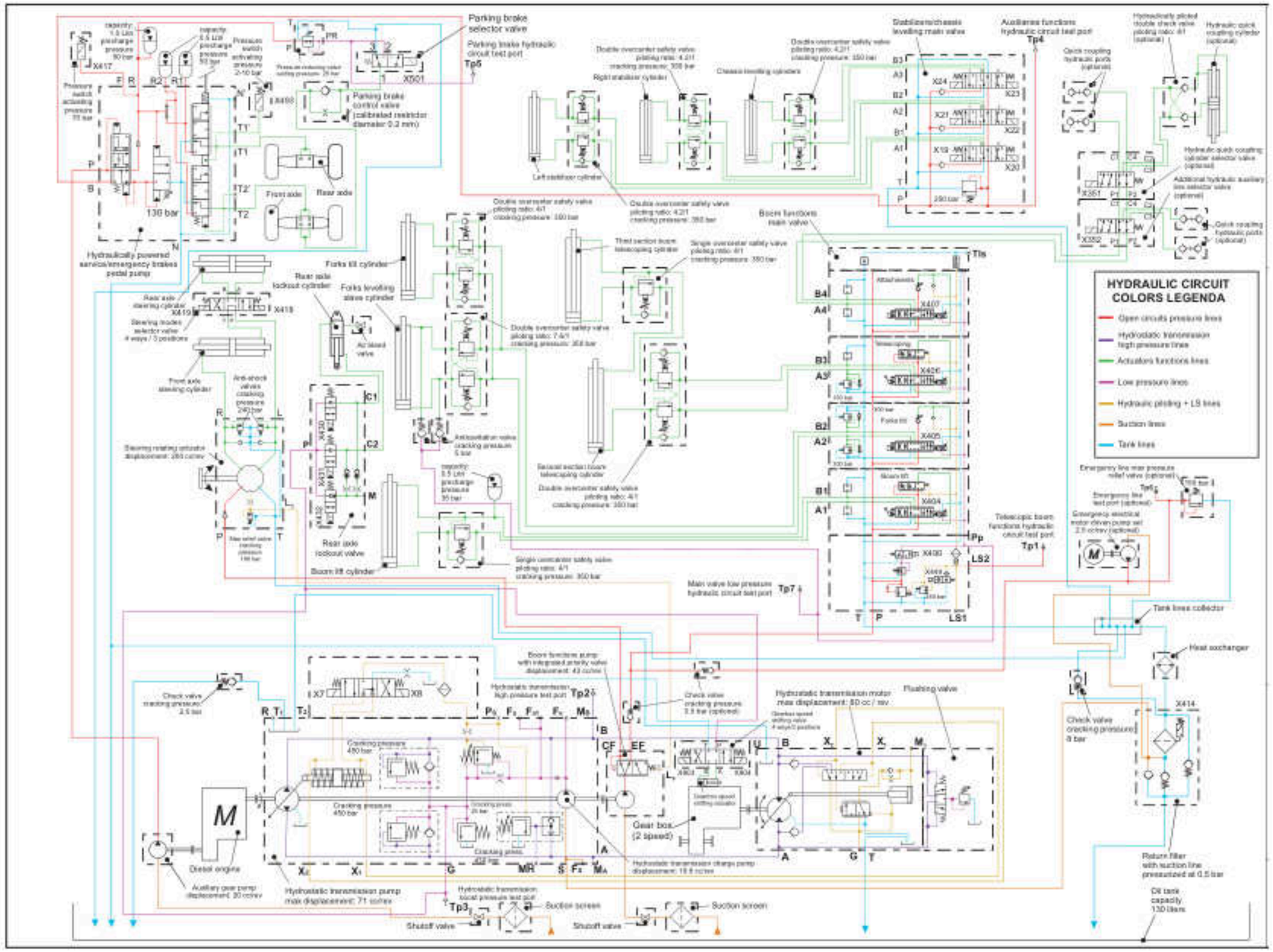


a boom tube number 1
b boom tube number 2
c boom tube number 3
d boom tube number 4
e extend cylinder
f retract chain tube number 1
g retract chain tube number 2
h tube number 1 retract chain tensioner
i tube number 2 retract chain tensioner

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GTH-4014 Hydraulical Schematic

From GTH401415B-146



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