A TEREX COMPANY

Maintenance Manual - Telehandlers

GTH-636
GTH-844
GTH-1056
GTH-1256
GTH-1544
GTH-5519

Refer to the inside cover for a list of models included in this manual.

This manual includes detailed procedures for each maintenance inspection.

For Repair procedures, Fault Codes, Electrical and Hydraulic Schematics, refer to the appropriate Service and Repair Manual for your machine.

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Powertrain Specifications

Deutz Engine Models

TD 2.9 L4, GTH-636	
Standby idle	1000 rpm
Low idle	950 rpm
High idle	2600 rpm
Oil capacity (including filter) Units ship with 15W-40.	9.4 quarts 9 liters
Engine coolant capacity Type: Extended Life 50/50	12.4 quarts 11.7 liters

TD 2.9 L4, GTH-5519	
Low idle	1000 rpm
High idle	2700 rpm
Oil capacity (including filter)	8.5 quarts 8 liters
Units ship with 15W-40 Shell Rimula R4 L.	
Engine coolant capacity Type: Extended Life	3.3 gallons 12,5 liters

TCD 3.6 L4, GTH-844, GTH-1056	
Low idle	1000 rpm
High idle	2400 rpm
Oil capacity (including filter)	9.5 quarts 9 liters
Units ship with 15W-40 API CJ4 low ash oil.	
Engine coolant capacity Type: Extended Life	4.5 gallons 17 liters

TCD 4.1 L4, GTH-1256, GTH-1544	
Low idle	920 rpm
High idle	2300 rpm
Oil capacity (including filter)	12.1 quarts 11.5 liters
Units ship with 15W-40 API CJ4 low ash oil.	
Engine coolant capacity Type: Ethylene Glycol	7.6 gallons 29 liters

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

John Deere Engine Models

4045HF485, GTH-1056	
Low idle	8000 rpm
High idle	2400 rpm
Oil capacity (including filter)	14 quarts 13.2 liters
Oil type	15W-40
Units ship with John Deere Engine Break-In Oil. During the break-in period, add John Deere Engine Break-In Oil as needed to maintain the specified oil level.	
Engine coolant capacity Type: Extended Life	7 gallons 26.5 liters

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

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Hydraulic Specifications

Hydraulic Hose and Fitting Torque Specifications

Your machine is equipped with Parker Seal-Lok™ ORFS or 37° JIC fittings and hose ends. Genie specifications require that fittings and hose ends be torqued to specification when they are removed and installed or when new hoses or fittings are installed.

Seal-Lok™ Fittings

(hose end - ORFS)

SAE Dash Size	Torque
-4	10 ft-lbs / 13.6 Nm
-6	30 ft-lbs / 40.7 Nm
-8	40 ft-lbs / 54.2 Nm
-10	60 ft-lbs / 81.3 Nm
-12	85 ft-lbs / 115 Nm
-16	110 ft-lbs / 150 Nm
-20	140 ft-lbs / 190 Nm
-24	180 ft-lbs / 245 Nm

JIC 37° Fittings

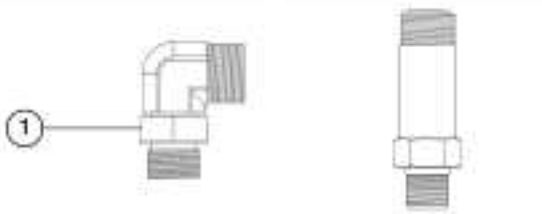
(swivel nut or hose connection)

SAE Dash Size	Thread Size	Flats
-4	7/16-20	2
-6	9/16-18	1 ¼
-8	3/4-16	1
-10	7/8-14	1
-12	1 1/16-12	1
-16	1 5/16-12	1
-20	1 5/8-12	1
-24	1 7/8-12	1

SAE O-ring Boss Port

(tube fitting - installed into Aluminum)
(all types)

SAE Dash Size	Torque
-4	14 ft-lbs / 19 Nm
-6	23 ft-lbs / 31.2 Nm
-8	36 ft-lbs / 54.2 Nm
-10	62 ft-lbs / 84 Nm
-12	84 ft-lbs / 114 Nm
-16	125 ft-lbs / 169.5 Nm
-20	151 ft-lbs / 204.7 Nm
-24	184 ft-lbs / 249.5 Nm



Adjustable Fitting

Non-adjustable fitting

1 jam nut

SAE O-ring Boss Port

(tube fitting - installed into Steel)

SAE Dash Size		Torque
-4	ORFS / 37° (Adj)	15 ft-lbs / 20.3 Nm
	ORFS (Non-adj)	26 ft-lbs / 35.3 Nm
	37° (Non-adj)	22 ft-lbs / 30 Nm
-6	ORFS (Adj / Non-adj)	35 ft-lbs / 47.5 Nm
	37° (Adj / Non-adj)	29 ft-lbs / 39.3 Nm
-8	ORFS (Adj / Non-adj)	60 ft-lbs / 81.3 Nm
	37° (Adj / Non-adj)	52 ft-lbs / 70.5 Nm
-10	ORFS (Adj / Non-adj)	100 ft-lbs / 135.6 Nm
	37° (Adj / Non-adj)	85 ft-lbs / 115.3 Nm
-12	(All types)	135 ft-lbs / 183 Nm
-16	(All types)	200 ft-lbs / 271.2 Nm
-20	(All types)	250 ft-lbs / 339 Nm
-24	(All types)	305 ft-lbs / 413.5 Nm

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5 Remove all engine covers, hydraulic tank covers and chassis covers.

⚠ DANGER Crushing hazard. Death or serious injury could result if the boom should unexpectedly fall while working underneath the boom. Do not stand or work beneath a boom that is not properly supported.

6 Inspect the following areas for burnt, chafed, corroded, pinched and loose wires:

- Engine
- Transmission
- Manifolds
- Chassis

7 Inspect for a lite, even coating of dielectric grease in all connections between the transmission and the operator's compartment.

Note: Do not apply excessive amounts of dielectric grease to harness connectors, pins or sockets.

Note: Do not apply dielectric grease to a engine ECU/ECM or engine harness connectors.

8 Install all covers removed in step 5.

9 Remove the lifting strap from the overhead crane.

10 Start the engine and lower the boom to the stowed position. Turn the machine off.

Q-4
Check the Boom Wear Pads

Genie specifications require that this procedure be performed quarterly.

GTH-636, GTH-844, GTH-1056

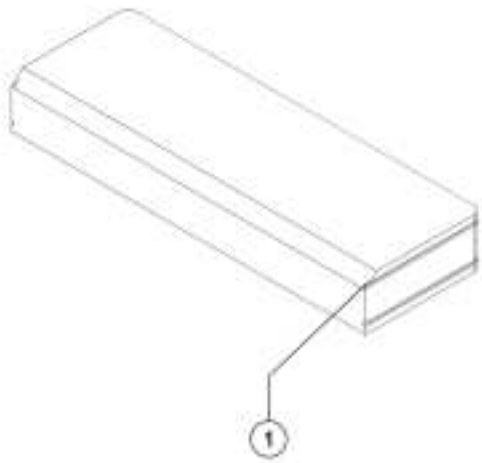
1 Extend the boom until the wear pads are accessible.

Note: It may be necessary to remove the wear pad retainer plates to expose the wear pads.

2 Inspect the end of each upper wear pad.

⊙ Result: The wear pad grooves are visible on the end of the wear pad.

⊠ Result: The grooves on the end of the wear pad are no longer visible. Replace both wear pads. Refer to the appropriate Service and Repair Manual for repair procedure, *How to Replace the Boom Wear Pads*.



1 wear pad groove

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