A TEREX COMPANY

Service and Repair Manual

GTH-844

Serial Number Range

from GTH0813-16606 to GTH0816-21572

from GTH0816E-10000 to GTH0816E-10699

from GTH08E-10700

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

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

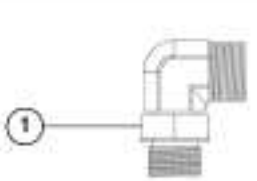
(swivel nut or hose connection)

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

1 jam nut



Non-adjustable fitting

SAE O-ring Boss Port

(tube fitting - installed into Steel)

SAE Dash Size		Torque
-4	ORFS / 37° (Adj) ORFS (Non-adj) 37° (Non-adj)	15 ft-lbs / 20.3 Nm 26 ft-lbs / 35.3 Nm 22 ft-lbs / 30 Nm
-6	ORFS (Adj / Non-adj) 37° (Adj / Non-adj)	35 ft-lbs / 47.5 Nm 29 ft-lbs / 39.3 Nm
-8	ORFS (Adj / Non-adj) 37° (Adj / Non-adj)	60 ft-lbs / 81.3 Nm 52 ft-lbs / 70.5 Nm
-10	ORFS (Adj / Non-adj) 37° (Adj / Non-adj)	100 ft-lbs / 135.6 Nm 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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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 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.
- ☑ Read each appropriate fault code thoroughly. Attempting short cuts may produce hazardous conditions.
- ☑ Be aware of the following hazards and follow generally accepted safe workshop practices.

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

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

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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.

Electrical Schematics

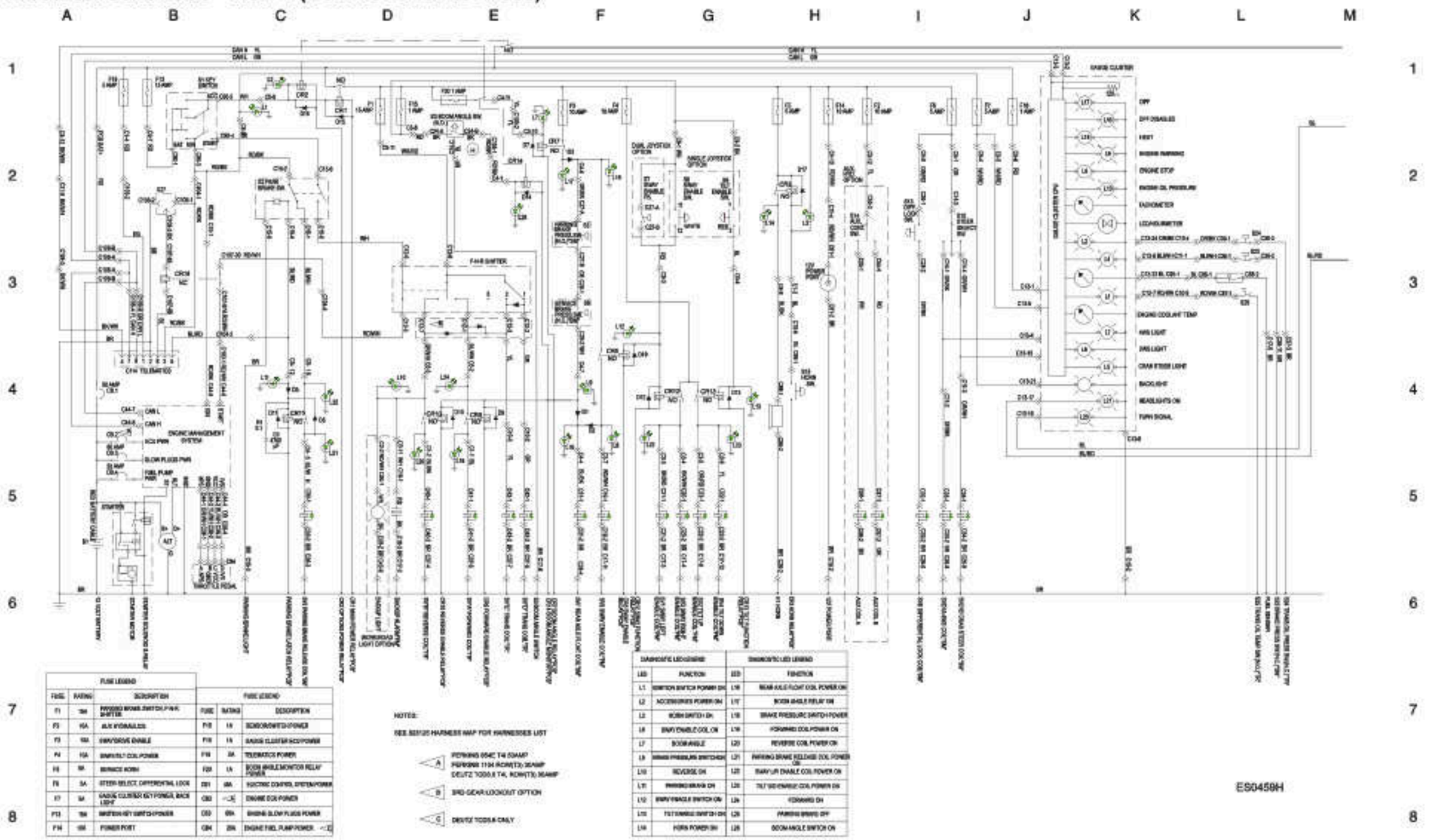
⚠WARNING Electrocution/burn hazard. Contact with electrically charged circuits could result in death or serious injury. Remove all rings, watches and other jewelry.

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.

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Electrical Schematic - View 1 (from 15-21457 to 21535)



FUSE LEGEND					
FUSE	RATING	DESCRIPTION	FUSE	RATING	DESCRIPTION
F1	15A	PROPELL BOOM SWITCH PWR, SHIFTER	F10	1A	SCM/DRIVE/ECU POWER
F2	10A	AUX HYDRAULICS	F11	1A	GAUGE CLUSTER ECU POWER
F3	10A	DRIVE/DRIVE ENABLE	F16	3A	TELEMATICS POWER
F4	10A	SHIFT/LIFT COIL POWER	F20	1A	BOOM ANGLE MONITOR RELAY POWER
F5	5A	BEACON HORN	CB1	60A	FUNCTIONS CONTROL SYSTEM POWER
F6	5A	STEER SELECT, DIFFERENTIAL LOCK	CB2	—[3]	ENGINE ECM POWER
F7	5A	GAUGE CLUSTER KEY POWER, BACK LIGHT	CB3	60A	ENGINE GLOW PLUGS POWER
F13	15A	IGNITION KEY SWITCH POWER	CB4	20A	ENGINE FUEL PUMP POWER —[2]
F14	10A	POWER PORT			

NOTES:

SEE 531125 HARNESS MAP FOR HARNESSES LIST

A — PERKINS 854E T4 63AMP
PERKINS 1104 (KOM/T3) 30AMP
DEUTZ TD3.6 T4L (KOM/T3) 30AMP

B — 3RD GEAR LOCKOUT OPTION

C — DEUTZ TCD3.6 ONLY

DIAGNOSTIC LED LEGEND		DIAGNOSTIC LED LEGEND	
LED	FUNCTION	LED	FUNCTION
L1	IGNITION SWITCH POWER ON	L16	BEAM AXLE FLOAT COIL POWER ON
L2	ACCESSORIES POWER ON	L17	BOOM ANGLE RELAY ON
L3	HORN SWITCH ON	L18	BRAKE PRESSURE SWITCH POWER
L6	SWAY ENABLE COIL ON	L19	FORWARD COIL POWER ON
L7	BOOM ANGLE	L20	REVERSE COIL POWER ON
L9	BRAKE PRESSURE SWITCH ON	L21	PARKING BRAKE RELEASE COIL POWER ON
L10	REVERSE ON	L22	SWAY/LIFT ENABLE COIL POWER ON
L11	PARKING BRAKE ON	L23	TILT ENABLE COIL POWER ON
L12	SWAY ANGLE SWITCH ON	L24	FORWARD ON
L13	TILT ENABLE SWITCH ON	L25	PARKING BRAKE OFF
L14	HORN POWER ON	L26	BOOM ANGLE SWITCH ON

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