A TEREX COMPANY

Service Manual

Serial Number Range

GS-3384 from GS8406-40833 to GS8413-42180

GS-3390 from GS9006-42686 to GS9013-48426

GS-4390 from GS9006-42686 to GS9013-48426

GS-5390 from GS9006-42686 to GS9013-48426

Part No. 84793

Rev G

January 2013

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

Table of Contents

Introduction

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

Section 1 **Safety Rules**

General Safety Rules vi

Section 2 **Specifications**

Machine Specifications ..... 2 - 1
Performance Specifications ..... 2 - 2
Hydraulic Specifications ..... 2 - 3
Hydraulic Component Specifications ..... 2 - 4
Manifold Component Specifications ..... 2 - 5
Valve Coil Specifications ..... 2 - 5
Ford LRG-425 EFI Engine ..... 2 - 6
Ford DSG-423 EFI Engine ..... 2 - 7
Deutz F3L 2011 Engine / Deutz D2011L03i Engine ..... 2 - 8
Hydraulic Hose and Fitting Torque Specifications ..... 2 - 10
SAE and Metric Fasteners Torque Charts ..... 2 - 11

Section 3 **Scheduled Maintenance Procedures**

Introduction ..... 3 - 1
Pre-delivery Preparation Report ..... 3 - 3
Maintenance Inspection Report ..... 3 - 5

Checklist A Procedures

A-1 Inspect the Manuals and Decals ..... 3 - 7
A-2 Perform Pre-operation Inspection ..... 3 - 8
A-3 Perform Function Tests ..... 3 - 8
A-4 Perform Engine Maintenance - Ford models ..... 3 - 9
A-5 Perform Engine Maintenance - Deutz models ..... 3 - 9

MidWestTech | Terex Genie GS-3384, GS-3390, GS-4390, GS-5390 Scissor Lift Service Ma... Order the manual at mid-west-tech.com >

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)

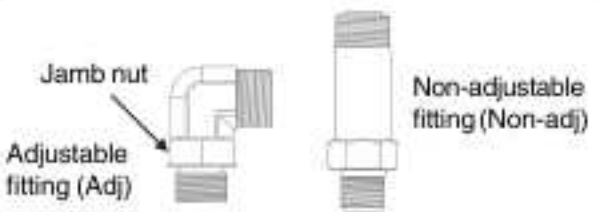
SAE Dash size	Torque
-4	10 ft-lbs / 13.6 Nm
-6	30 ft-lbs / 40.7 Nm
-8	40 ft-lbs / 54.2 Nm
-10	60 ft-lbs / 81.3 Nm
-12	85 ft-lbs / 115 Nm
-16	110 ft-lbs / 150 Nm
-20	140 ft-lbs / 190 Nm
-24	180 ft-lbs / 245 Nm

JIC 37° Fittings
(swivel nut or hose connection)

SAE Dash size	Thread Size	Flats
-4	7/16-20	2
-6	9/16-18	1 1/4
-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



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

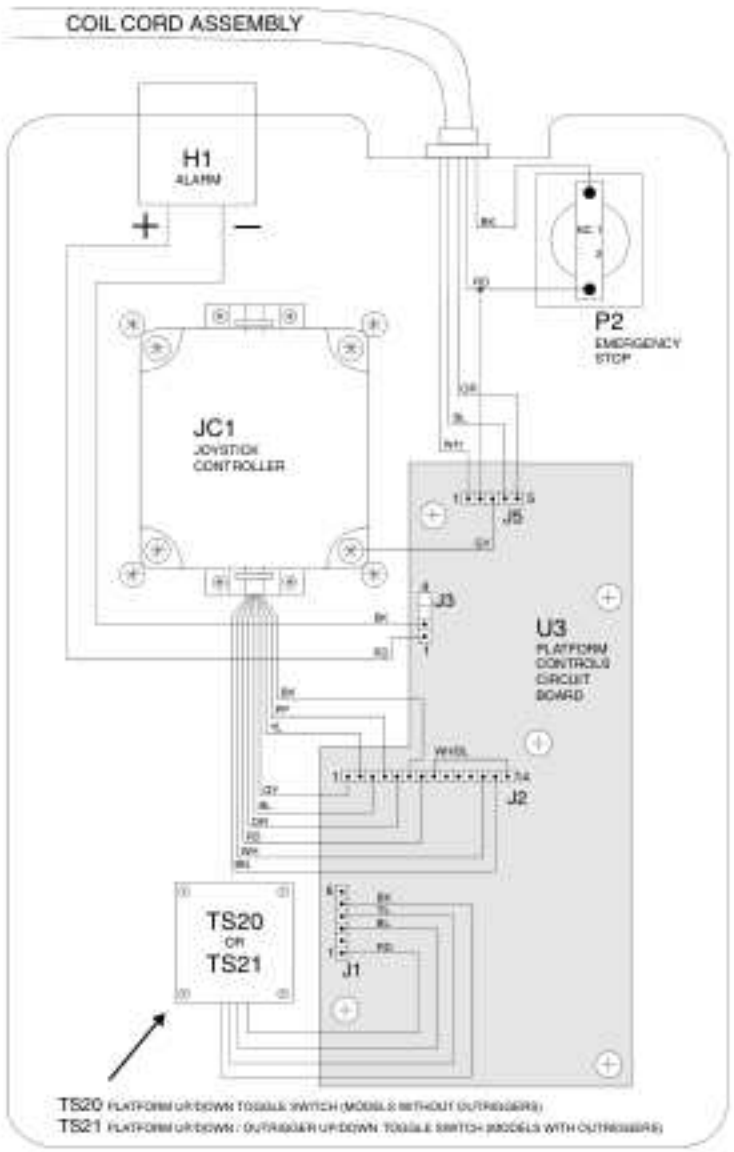
MidWestTech | Terex Genie GS-3384, GS-3390, GS-4390, GS-5390 Scissor Lift Service Ma... Order the manual at mid-west-tech.com >

FAULT CODE CHART

Fault Code	LED	Condition	Result	Solution
34 RIGHT FRONT OUTRIG SW FLT	Red	Right front outrigger enable button fault at platform controls.	Outriggers disabled.	Troubleshoot button OR replace printed circuit board at platform controls.
35 LEFT REAR OUTRIG SW FLT	Red	Left rear outrigger enable button fault at platform controls.	Outriggers disabled.	Troubleshoot button OR replace printed circuit board at platform controls.
36 RIGHT REAR OUTRIG SW FLT	Red	Right rear outrigger enable button fault at platform controls.	Outriggers disabled.	Troubleshoot button OR replace printed circuit board at platform controls.
37 AUTO LEVEL SWITCH FAULT	Red	Outrigger autolevel enable button fault at platform controls.	Outriggers disabled.	Troubleshoot button OR replace printed circuit board at platform controls.
49 DRIVE COIL 1 FAULT	Red	Drive coil 1 (Y1) fault.	High speed drive function will not operate.	Troubleshoot coil OR wiring.
50 DRIVE COIL 2 FAULT	Red	Drive coil 2 (Y1A) fault.	High speed drive function will not operate.	Troubleshoot coil OR wiring.
51 DRIVE COIL 3 FAULT	Red	Drive coil 3 (Y1B) fault.	High speed drive function will not operate.	Troubleshoot coil OR wiring.
52 FUNC PROP COIL FAULT	Red	Proportional coil (Y9) fault.	Lift and outrigger functions are disabled.	Troubleshoot coil OR wiring.
54 UP COIL FAULT	Red	Up coil (Y8) fault.	Platform will not raise.	Troubleshoot coil OR wiring.
55 DOWN COIL FAULT	Red	Down coil (Y7) fault.	Platform will not lower.	Troubleshoot coil OR wiring.
56 RIGHT TURN COIL FAULT	Red	Right turn coil (Y3) fault.	Machine will not turn right.	Troubleshoot coil OR wiring.
57 LEFT TURN COIL FAULT	Red	Left turn coil (Y4) fault.	Machine will not turn left.	Troubleshoot coil OR wiring.
58 BRAKE COIL FAULT	Red	Brake release coil (Y2) fault.	Brakes will not release.	Troubleshoot coil OR wiring.
60 FORWARD 1 COIL FAULT	Red	Forward 1 coil (Y6) fault.	Drives slow or not at all when elevated.	Troubleshoot coil OR wiring.
61 REVERSE 1 COIL FAULT	Red	Reverse 1 coil (Y5) fault.	Drives slow or not at all when elevated.	Troubleshoot coil OR wiring.
62 FORWARD 2 COIL FAULT	Red	Forward 2 coil (Y6A) fault.	Drives slow or not at all when elevated.	Troubleshoot coil OR wiring.
63 REVERSE 2 COIL FAULT	Red	Reverse 2 coil (Y5A) fault.	Drives slow or not at all when elevated.	Troubleshoot coil OR wiring.

MidWestTech | Terex Genie GS-3384, GS-3390, GS-4390, GS-5390 Scissor Lift Service Ma... Order the manual at mid-west-tech.com >

Wiring Diagram - Platform Control Box



MidWestTech | Terex Genie GS-3384, GS-3390, GS-4390, GS-5390 Scissor Lift Service Ma... Order the manual at mid-west-tech.com >

SPECIFICATIONS

SAE FASTENER TORQUE CHART

• This chart is to be used as a guide only unless noted elsewhere in this manual •

SIZE	THREAD	Grade 5				Grade 8				A574 High Strength Black Oxide Bolts	
		LUBED		DRY		LUBED		DRY		LUBED	
		in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm
1/4	20	80	9	100	11.3	110	12.4	140	15.8	130	14.7
	28	90	10.1	120	13.5	120	13.5	160	18	140	15.8
		LUBED		DRY		LUBED		DRY		LUBED	
		ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm
5/16	18	13	17.6	17	23	18	24	25	33.9	21	28.4
	24	14	19	19	25.7	20	27.1	27	36.6	24	32.5
3/8	16	23	31.2	31	42	33	44.7	44	59.6	38	51.5
	24	26	35.2	35	47.4	37	50.1	49	66.4	43	58.3
7/16	14	37	50.1	49	66.4	50	67.8	70	94.7	61	82.7
	20	41	55.5	55	74.5	60	81.3	80	108.4	68	92.1
1/2	13	57	77.3	75	101.6	80	108.4	110	149	93	126
	20	64	86.7	85	115	90	122	120	162	105	142
9/16	12	80	108.4	110	149	120	162	150	203	130	176
	18	90	122	120	162	130	176	170	230	140	189
5/8	11	110	149	150	203	160	217	210	284	180	244
	18	130	176	170	230	180	244	240	325	200	271
3/4	10	200	271	270	366	280	379	380	515	320	433
	16	220	298	300	406	310	420	420	569	350	474
7/8	9	320	433	430	583	450	610	610	827	510	691
	14	350	474	470	637	500	678	670	908	560	759
1	8	480	650	640	867	680	922	910	1233	770	1044
	12	530	718	710	962	750	1016	990	1342	840	1139
1 1/8	7	590	800	790	1071	970	1315	1290	1749	1090	1477
	12	670	908	890	1206	1080	1464	1440	1952	1220	1654
1 1/4	7	840	1138	1120	1518	1360	1844	1820	2467	1530	2074
	12	930	1260	1240	1681	1510	2047	2010	2725	1700	2304
1 1/2	6	1460	1979	1950	2643	2370	3213	3160	4284	2670	3620
	12	1640	2223	2190	2969	2670	3620	3560	4826	3000	4067

METRIC FASTENER TORQUE CHART

• This chart is to be used as a guide only unless noted elsewhere in this manual •

Size	Class 4.6				Class 8.8				Class 10.9				Class 12.9			
(mm)	LUBED		DRY		LUBED		DRY		LUBED		DRY		LUBED		DRY	
	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm
5	16	1.8	21	2.4	41	4.63	54	6.18	58	6.63	78	8.84	68	7.75	91	10.3
6	19	3.05	36	4.07	69	7.87	93	10.5	100	11.3	132	15	116	13.2	155	17.6
7	45	5.12	60	6.83	116	13.2	155	17.6	167	18.9	223	25.2	1.95	22.1	260	29.4
	LUBED		DRY		LUBED		DRY		LUBED		DRY		LUBED		DRY	
	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs	Nm
8	5.4	7.41	7.2	9.88	14	19.1	18.8	25.5	20.1	27.3	26.9	36.5	23.6	32	31.4	42.6
10	10.8	14.7	14.4	19.6	27.9	37.8	37.2	50.5	39.9	54.1	53.2	72.2	46.7	63.3	62.3	84.4
12	18.9	25.6	25.1	34.1	48.6	66	64.9	88	69.7	94.5	92.2	125	81	110	108	147
14	30.1	40.8	40	54.3	77.4	105	103	140	110	150	147	200	129	175	172	234
16	46.9	63.6	62.5	84.8	125	170	166	226	173	235	230	313	202	274	269	365
18	64.5	87.5	86.2	117	171	233	229	311	238	323	317	430	278	377	371	503
20	91	124	121	165	243	330	325	441	337	458	450	610	394	535	525	713
22	124	169	166	225	331	450	442	600	458	622	612	830	536	727	715	970
24	157	214	210	285	420	570	562	762	583	791	778	1055	682	925	909	1233

MidWestTech | Terex Genie GS-3384, GS-3390, GS-4390, GS-5390 Scissor Lift Service Ma... Order the manual at mid-west-tech.com >