Genie®
A TEREX COMPANY

Service Manual

Serial Number Range

GS-2668 RT

from 101 to
GS6805-44770

GS-3268 RT

from 101 to
GS6805-44770

Part No. 52302
Rev F
July 2007

MidWestTech | Terex Genie GS-2668 RT, GS-3268 RT Self Propelled Scissor Lift Service Manual | Publication 52302

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

Table of Contents

Introduction

Important Information ii
Serial Number Legend iii

Section 1 **Safety Rules**

General Safety Rules v

Section 2 **Rev** **Specifications**

D Machine Specifications ..... 2 - 1
Performance Specifications ..... 2 - 2
Hydraulic Specifications ..... 2 - 2
Manifold Component Specifications ..... 2 - 3
Kubota D905 Engine ..... 2 - 4
Kubota D905 Tier 2 Engine ..... 2 - 5
Perkins 403C-11 Engine ..... 2 - 6
Kubota DF750 Engine ..... 2 - 7
Kubota DF752 Engine ..... 2 - 8
Hydraulic Hose and Fitting Torque Specifications ..... 2 - 9
SAE and Metric Fasteners Torque Charts ..... 2 - 10

Section 3 **Rev** **Scheduled Maintenance Procedures**

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

MidWestTech | Terex Genie GS-2668 RT, GS-3268 RT Self Propelled Scissor Lift Service M... Order the manual at mid-west-tech.com >

TABLE OF CONTENTS

Section 3	Rev	Scheduled Maintenance Procedures, continued	
	C	**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	3 - 9
		A-5 Inspect the Engine Air Filter	3 - 9
		A-6 Perform 30 Day Service	3 - 10
		A-7 Perform Engine Maintenance - Kubota D905 Models	3 - 11
		A-8 Perform Engine Maintenance - Kubota Models	3 - 11
		A-8 Perform Engine Maintenance - Kubota Models	3 - 12
		A-9 Perform Engine Maintenance - Kubota Models	3 - 12
		A-11 Drain the Fuel Filter/Water Separator - Diesel Models	3 - 13
		A-11 Perform Engine Maintenance - Kubota D905 Models	3 - 14
	D	**Checklist B Procedures**	
		B-1 Inspect the Battery	3 - 15
		B-2 Inspect the Electrical Wiring	3 - 16
		B-3 Inspect the Tires, Wheels and Lug Bolt Torque	3 - 17
		B-4 Perform Engine Maintenance - Perkins 403C-11 Models	3 - 17
		B-5 Test the Key Switch	3 - 18
		B-6 Test the Emergency Stop	3 - 18
		B-7 Test the Automotive-style Horn	3 - 19
		B-8 Test the Fuel Select Operation - Gasoline/LPG Models	3 - 20
		B-9 Test the Drive Brakes	3 - 21
		B-10 Test the Drive Speed - Stowed Position	3 - 22

MidWestTech | Terex Genie GS-2668 RT, GS-3268 RT Self Propelled Scissor Lift Service M... Order the manual at mid-west-tech.com >

TABLE OF CONTENTS

Section 3	Rev	Scheduled Maintenance Procedures, continued	
		B-11 Test the Drive Speed - Raised Position	3 - 23
		B-12 Inspect the Fuel and Hydraulic Tank Cap Venting Systems	3 - 24
		B-13 Perform Hydraulic Oil Analysis	3 - 25
		B-14 Test the Flashing Beacons (if equipped)	3 - 25
		B-15 Perform Engine Maintenance - Kubota D905 Models	3 - 25
	C	**Checklist C Procedures**	
		C-1 Test the Platform Overload System (if equipped)	3 - 26
		C-2 Clean the Fuel Tank - Diesel Models	3 - 27
		C-3 Replace the Hydraulic Tank Breather Cap - Models with Optional Hydraulic Oil	3 - 28
		C-4 Perform Engine Maintenance - Diesel Models	3 - 29
		C-5 Perform Engine Maintenance - Kubota D905 and DF750 Models	3 - 29
	C	**Checklist D Procedures**	
		D-1 Check the Scissor Arm Wear Pads	3 - 30
		D-2 Replace the Hydraulic Tank Return Filter	3 - 31
		D-3 Perform Engine Maintenance - Perkins 403C-11 Models	3 - 32
		D-4 Perform Engine Maintenance - Kubota DF752 Models	3 - 32
		D-5 Perform Engine Maintenance - Kubota Models	3 - 33
		D-6 Perform Engine Maintenance - Kubota D905 Models	3 - 33
	B	**Checklist E Procedures**	
		E-1 Test or Replace the Hydraulic Oil	3 - 34
		E-2 Perform Engine Maintenance - Perkins 403C-11 Models	3 - 35
		E-3 Perform Engine Maintenance - Gasoline/LPG Models	3 - 36
		E-4 Perform Engine Maintenance - Perkins 403C-11 Models	3 - 36

MidWestTech | Terex Genie GS-2668 RT, GS-3268 RT Self Propelled Scissor Lift Service M... Order the manual at mid-west-tech.com >

SPECIFICATIONS REV D

Perkins 403C-11 Engine

Displacement	68.9 cu in 1.13 liters
Number of cylinders	3
Bore and stroke	3.03 x 3.19 inches 77 x 81 mm
Horsepower, gross intermittent	26.1 @ 3000 rpm 19.5 kW
Firing order	1 - 2 - 3
Compression ratio	23:1
Compression pressure	425 psi 29.3 bar
Pressure of the lowest cylinder must be within 50 psi / 3.45 bar of the highest cylinder, though at no time less than 360 psi / 24.8 bar	
Low idle	1500 rpm 300 hz
High idle	3000 rpm 600 hz
Governor	all-speed mechanical
Valve clearance, cold	0.0078 in 0.2 mm
Engine coolant capacity	3.28 quarts 3.1 liters
Engine coolant should be clean soft water with 50% anti freeze concentration ethylene glycol to BS 6580:1992 or ASTMD 3306-89 or AS 2108-1977	
Lubrication system	
Oil pressure (hot @ 2000 rpm)	40 to 60 psi 2.76 to 4.14 bar
Oil capacity (including filter)	4.3 quarts 4.07 liters
Oil viscosity requirements	
Units ship with 15W-40. Extreme operating temperatures may require the use of alternative engine oils. For oil requirements, refer to the Engine Operator Handbook on your machine.	

Injection system	
Injection pump make	Bosch
Injection timing	23° BTDC @ 3000 rpm
Injection pump pressure	2133 psi 150 bar
Fuel requirement	diesel number 2-D
Battery	
Type	12V DC
Group	34/78
Quantity	1
Ampere hour	75AH
Cold cranking ampere	900A
Reserve capacity @ 25A rate	125 minutes
Alternator	
Output	40A, 12V DC
Fan belt deflection	3/16 inch 5 mm

Continuous improvement of our products is a Genie policy. Product specifications are subject to change without notice.

MidWestTech | Terex Genie GS-2668 RT, GS-3268 RT Self Propelled Scissor Lift Service M... Order the manual at mid-west-tech.com >

FAULT CODE CHART REV B
(BEFORE SERIAL NUMBER GS6803-42382)

Fault Code	Fault	Condition	Possible Causes	Solution
67	ECM does not allow machine to function.	Engine will not start or run OR engine runs then shuts off.	High engine temperature OR defective water temperature switch.	Check the engine radiator coolant level OR check wiring and terminal at the water temperature switch OR check the wiring and terminal at the ECM OR replace the water temperature switch.
68	ECM does not allow machine to function.	All functions do not operate.	Low supply voltage to ECM.	Check battery or alternator condition, E Stop relay 1 & 2 terminals.
69	ECM does not allow machine to function.	Engine starts and runs then shuts down.	Engine idle RPM too low.	Consult Genie Industries Service Department
70	ECM does not allow machine to function.	Engine starts and runs then shuts down.	Engine RPM too high.	Consult Genie Industries Service Department

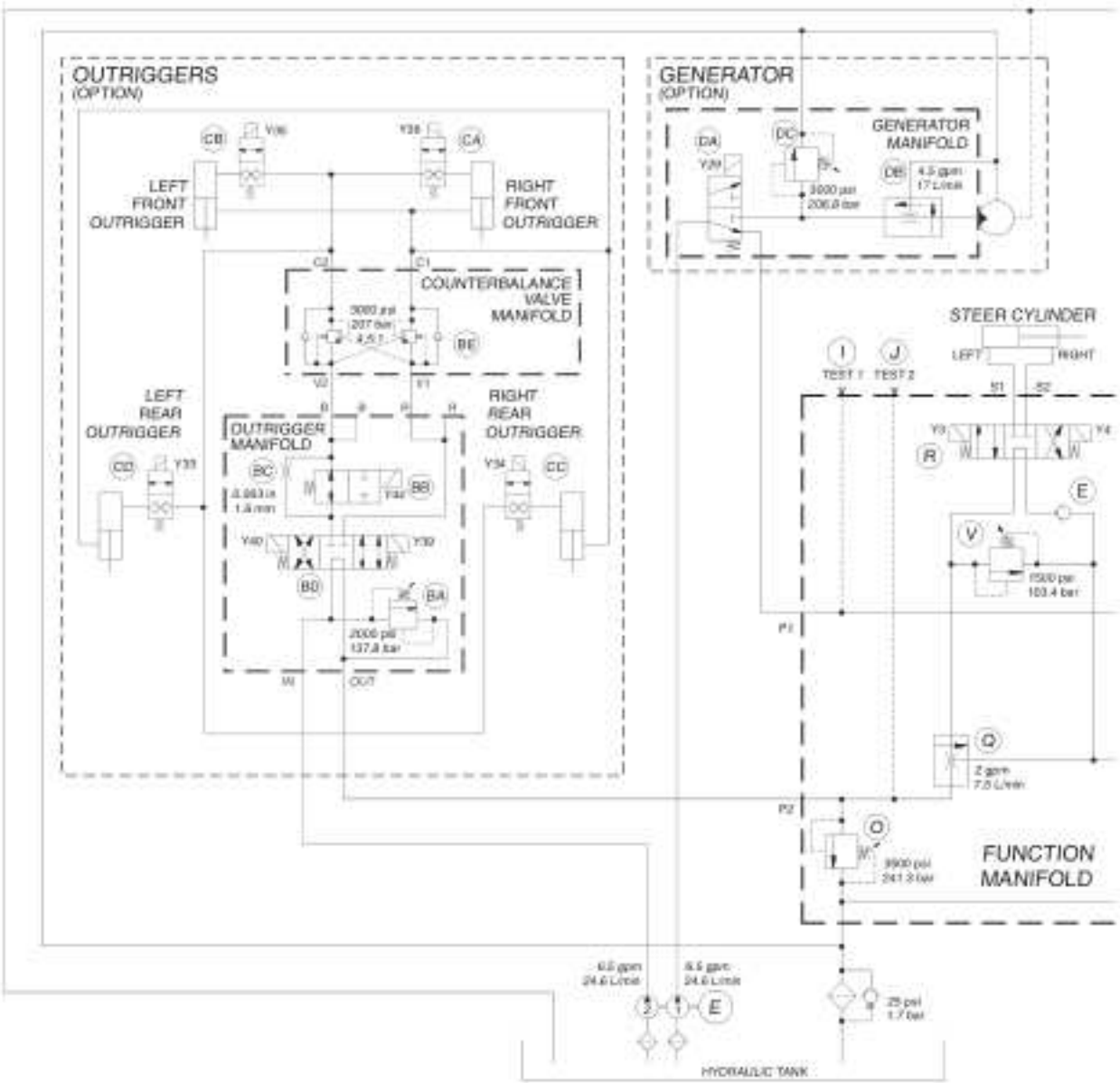
MidWestTech | Terex Genie GS-2668 RT, GS-3268 RT Self Propelled Scissor Lift Service M... Order the manual at mid-west-tech.com >

Hydraulic Schematic

(before serial number 35557)

REV C

Part 1 of 2



HS0032B
HS0027J

MidWestTech | Terex Genie GS-2668 RT, GS-3268 RT Self Propelled Scissor Lift Service M... Order the manual at mid-west-tech.com >