

Genie®

Service Manual

Refer to inside cover for additional serial number information

Part No. 128267
Rev A
July 2007

Z™-34/22 IC

(from serial number 3242 to 4799)

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SPECIFICATIONS REV A

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 Frequency	1500 rpm 300 hz
High idle Frequency	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 147 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.

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3-2
Jib Boom Bell Crank

How to Remove the Jib Boom Bell Crank

Note: Perform this procedure with the boom in the stowed position.

Note: When removing a hose assembly or fitting, the O-ring on the fitting and/or hose end must be replaced and then torqued to specification during installation. Refer to Section 2, *Hydraulic Hose and Fitting Torque Specifications*.

1 Remove the platform.

2 Remove the Jib Boom, See 3-1, *How to Remove the Jib Boom*.

3 Support and secure the jib boom bell crank to an appropriate lifting device.

4 Remove the pin retaining fasteners from the slave cylinder rod-end pivot pin. Do not remove the pin.

5 Remove the pin retaining fasteners from the jib boom bell crank at the extension boom. Use a soft metal drift to remove the pin.

6 Use a soft metal drift to remove the slave cylinder rod-end pivot pin.

7 Remove the jib boom bell crank from the extension boom.

⚠WARNING Crushing hazard. The jib boom bell crank could become unbalanced and fall when the pins are removed if not properly supported and secured to the lifting device.

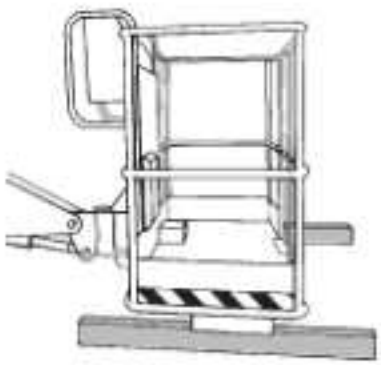
3-3
Jib Boom Lift Cylinder

How to Remove the Jib Boom Lift Cylinder

Note: Perform this procedure with the boom in the stowed position.

Note: When removing a hose assembly or fitting, the O-ring on the fitting and/or hose end must be replaced and then torqued to specification during installation. Refer to Section 2, *Hydraulic Hose and Fitting Torque Specifications*.

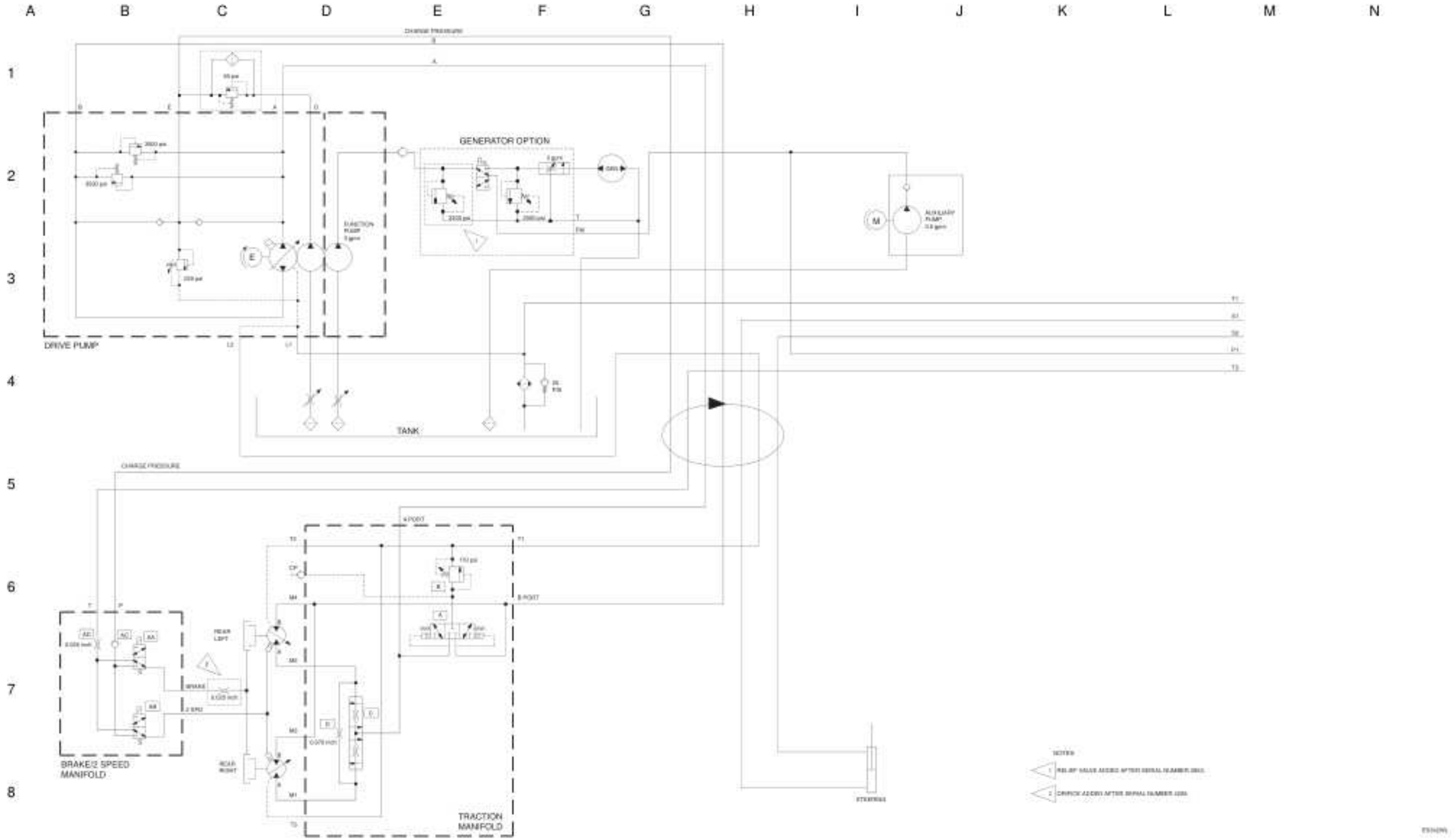
1 Raise the jib boom slightly and place blocks under the platform mounting weldment. Lower the jib boom until the platform is resting on the blocks.



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Hydraulic Schematic, 2WD Models

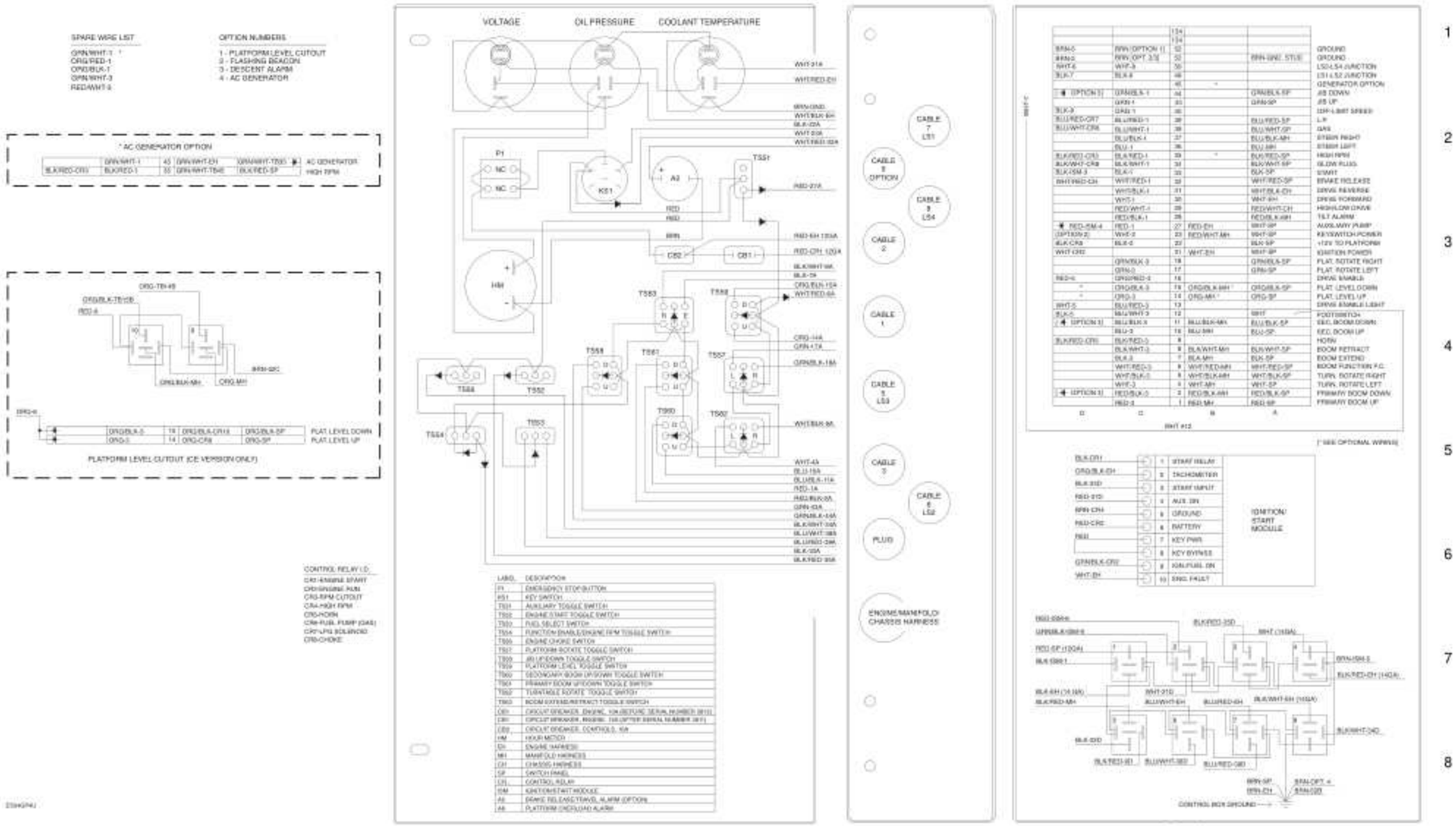
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Ground Control Box Wiring Diagram - Gasoline/LPG Models (from serial number 3578 to 4799)



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