A TEREX COMPANY

Service Manual

Serial Number Range

Z-51/30J

from Z513005-101
to Z513014B-1200

Part No. 110284

Rev B

September 2015

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SPECIFICATIONS

Hydraulic Specifications

Hydraulic Oil Specifications	
Hydraulic oil type	Chevron Rykon MV equivalent
ISO viscosity grade	Multi-viscosity
Viscosity index	200
Cleanliness level, minimum	15/13
Water content, maximum	200 ppm

Chevron Rykon MV oil is fully compatible and mixable with Shell Donax TG (Dexron III) oils.
Genie specifications require hydraulic oils which are designed to give maximum protection to hydraulic systems, have the ability to perform over a wide temperature range, and have a minimum viscosity index greater than 140. They should provide excellent antiwear, oxidation, corrosion inhibition, seal conditioning, and foam and aeration suppression properties.

Optional fluids	
Biodegradable	Petro Canada Environ MV46 Statoil Hydra Way Bio Pa 32 BP Biohyd SE-S
Fire resistant	UCON Hydrolube HP-5046 Quintolubric 822
Mineral based	Shell Tellus T32 Shell Tellus T46 Chevron Aviation A

Note: Use Chevron Aviation A hydraulic oil when in ambient temperatures consistently below 0°F / -18°C.

Note: Use Shell Tellus T46 hydraulic oil when oil temperatures consistently exceed 205°F / 96°C.

Note: Genie specifications require additional equipment and special installation instructions for the approved optional fluids. Consult Genie Product Support before use.

Drive pump	
Type:	bi-directional, variable displacement piston pump
Flow rate @ 2500 rpm	32 gpm 121 L/min
Drive pressure, maximum	3500 psi 241 bar

Charge pump	
Type:	gear
Displacement	0.84 cu in 13.76 cc
Flow rate @ 2500 rpm	9.1 gpm 34.4 L/min
Charge pressure @ 2500 rpm	315 psi 21.7 bar

Function pump	
Type:	gear
Displacement	0.67 cu in 11 cc
Flow rate @ 2500 rpm	7.25 gpm 27.4 L/min

Auxiliary pump	
Type:	gear, fixed displacement
Displacement per revolution	0.067 cu in 1.1 cc
Auxiliary pump relief pressure	3200 psi 220.6 bar

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FAULT CODES

Fault Codes - Control System

How to Retrieve Control System Fault Codes

Note: At least one fault code is present when the alarm at the platform controls produces two short beeps every 30 seconds for 10 minutes.

Note: Perform this procedure with the engine off, the key switch turned to platform controls and the red Emergency Stop button pulled out to the on position at both the ground and platform controls.

1 Open the platform control box lid.

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

2 Locate the red and yellow fault LEDs on the ALC-500 circuit board inside the platform control box. Do not touch the circuit board.

NOTICE Component damage hazard. Electrostatic discharge (ESD) can damage printed circuit board components. If the circuit board does need to be handled, maintain firm contact with a metal part of the machine that is grounded at all times when handling the printed circuit board OR use a grounded wrist strap.

3 **Determine the error source:** The red LED indicates the error source and will flash two separate codes. The first code will indicate the first digit of the two digit code, flashing once per second. It will then pause for 1.5 seconds and flash the second digit once per 0.5 second.

Note: When the red LED is flashing the code, the yellow LED will be on solid.

4 **Determine the error type:** The yellow LED indidates the error type and will flash two separate codes. The first code will indicate the first digit of the two digit code, flashing once per second. It will then pause for 1.5 seconds and flash the second digit once per 0.5 second.

Note: When the yellow LED is flashing the code, the red LED will be on solid.

5 Use the fault code table on the following pages to aid in troubleshooting the machine by pinpointing the area or component affected.

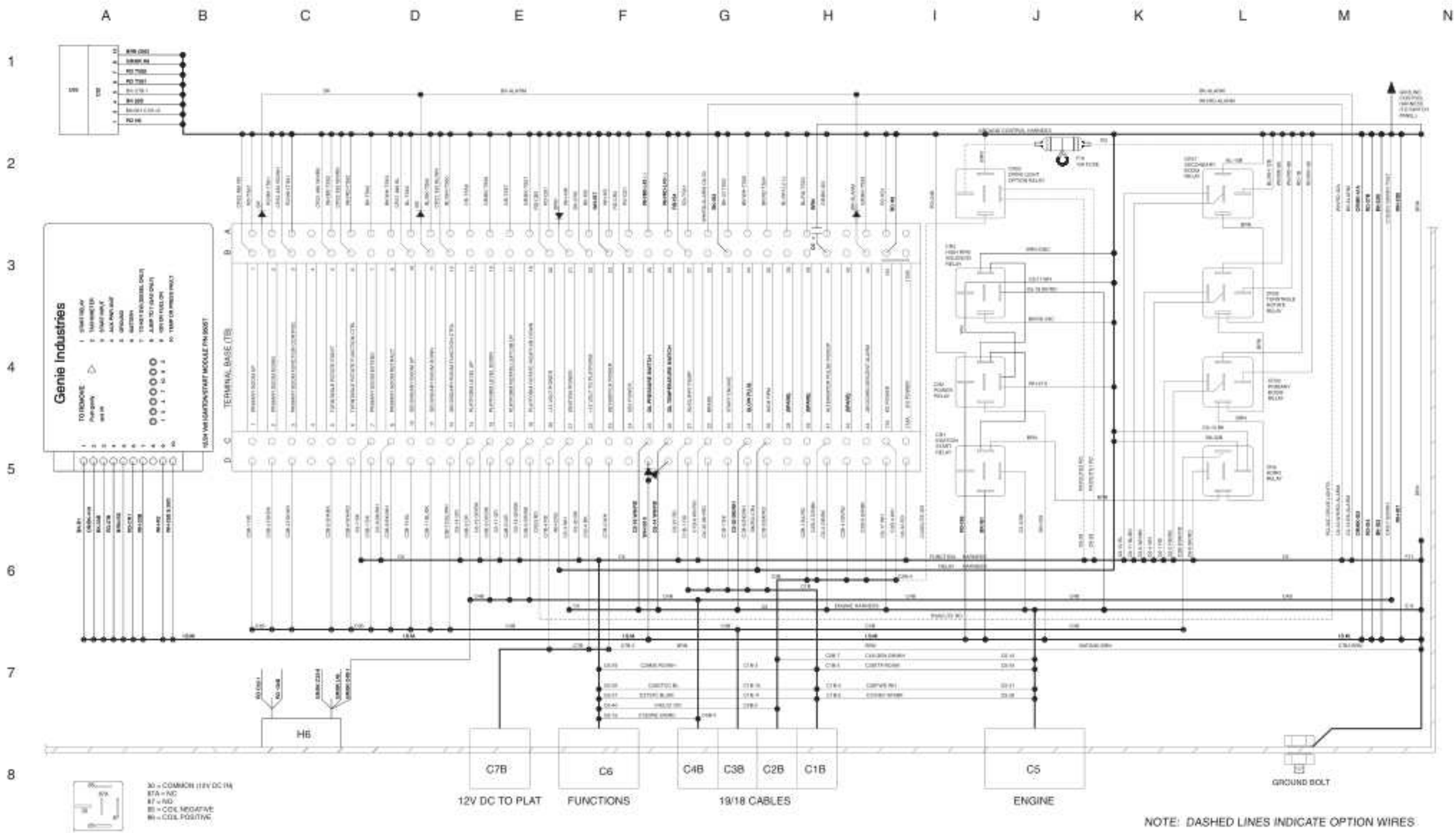
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Ground Control Box Switch Panel Wiring Diagram



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Ground Control Box Terminal Strip Wiring Diagram



NOTE: DASHED LINES INDICATE OPTION WIRES

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