A TEREX COMPANY

Service and Repair Manual

Z-34/22 IC

Serial Number Range

from Z3413-9461 to Z3415-10688

from Z3416F-10689 to Z3416F-11999

from Z34F-12000

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

Machine Component Weights

Drive motor	27 lbs 12 kg
Torque hub	113 lbs 51 kg
Primary boom assembly (including extension boom)	647 lbs 293 kg
Primary boom cylinder	59 lbs 27 kg
Primary boom extend cylinder	75 lbs 34 kg
Secondary boom linkage	832 lbs 377 kg
Secondary boom cylinder	54 lbs 24 kg
Jib boom assembly	53lbs 24kg
Jib boom cylinder	34 lbs 15 kg
4 ft / 1.5 m platform	99 lbs 45 kg
5 ft / 2.4 m platform	105 lbs 48 kg
Battery 12 volt	41 lbs 19 kg

Performance Specifications

Drive speed, maximum	
Stowed position	3.0 mph 5.1 km/h
	40 ft / 6.1 sec 12.2 m / 6.1 sec
Raised or extended	0.6 mph 0.98 km/h
	40 ft / 45 sec 12.2 m / 45 sec
Gradeability	See Operator's Manual
Braking distance, maximum	
High range on paved surface	3 to 4 ft 0.9 to 1.2 m
Joystick function speeds, maximum from platform controls	
Primary boom up	15 to 21 seconds
Primary boom down	13 to 19 seconds
Primary boom extend	14 to 20 seconds
Primary boom retract	14 to 20 seconds
Secondary boom up	15 to 21 seconds
Secondary boom down	11 to 17 seconds
Jib boom up	24 - 30 seconds
Jib boom down	15 to 21 seconds
Turntable rotate, 355°	62 to 72 seconds
Platform rotate	4 - 7 seconds

For operational specifications, refer to the Operator's Manual.

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

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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
  - Key switch in the off position with the key removed
  - The red Emergency Stop button in the off position at both the ground and platform controls
  - Wheels chocked
  - All external AC power supply disconnected from the machine
  - Boom in the stowed position
  - Turntable secured with the turntable rotation lock
  - Welder disconnected from the machine (if equipped with the weld cable to platform option)

Before Troubleshooting:

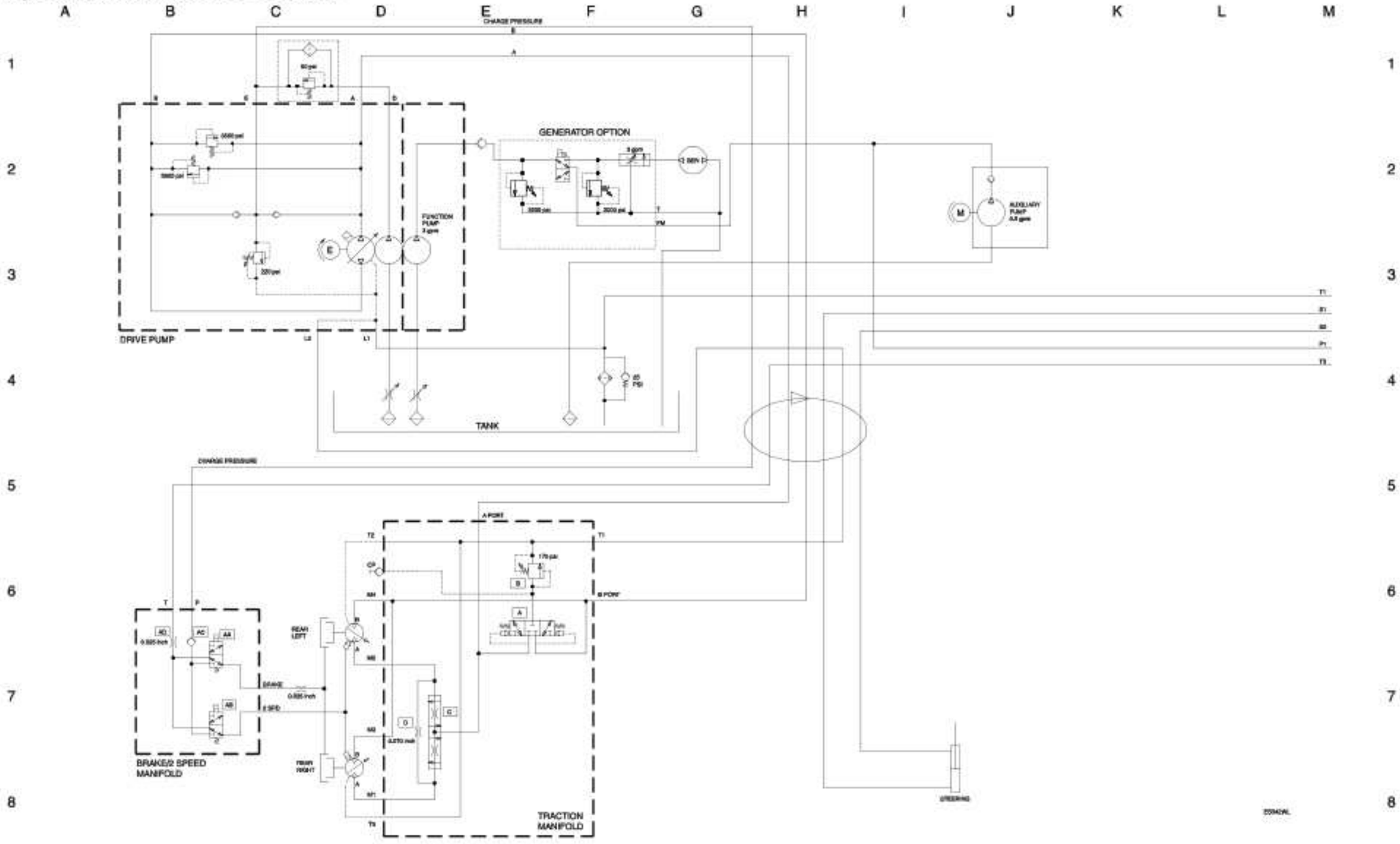
- ☑ Read, understand and obey the safety rules and operating instructions in the appropriate operator's manual on your machine.
- ☑ Be sure that all necessary tools and test equipment are available and ready for use.
- ☑ Read each appropriate fault code thoroughly. Attempting short cuts may produce hazardous 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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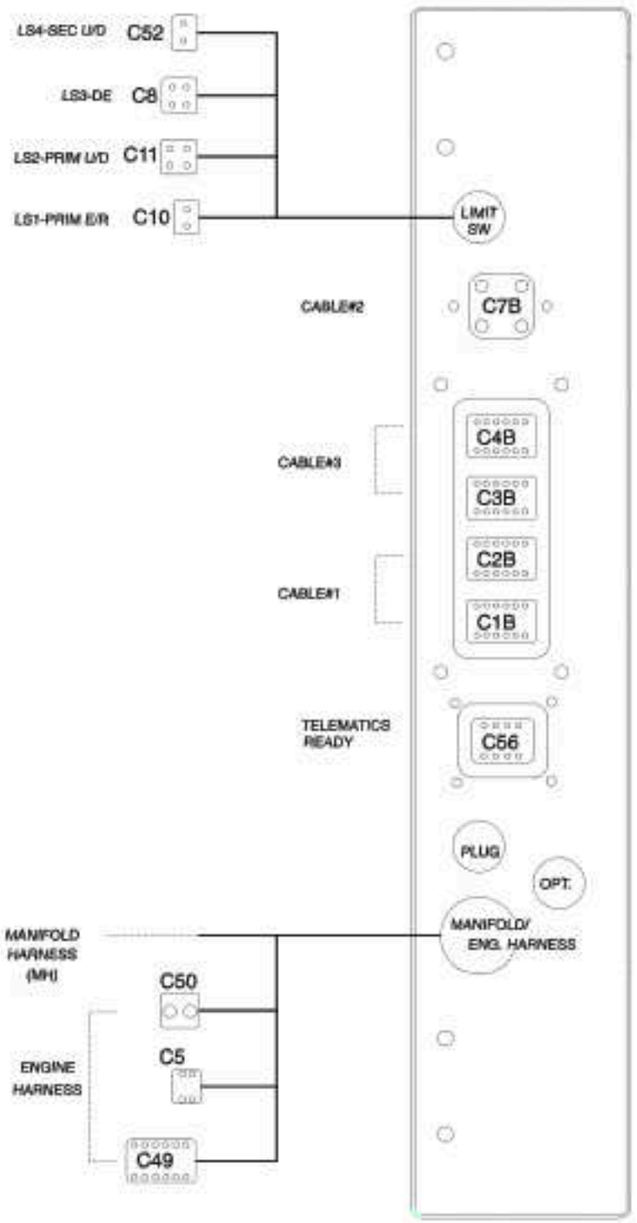
Hydraulic Schematic, 2WD Models

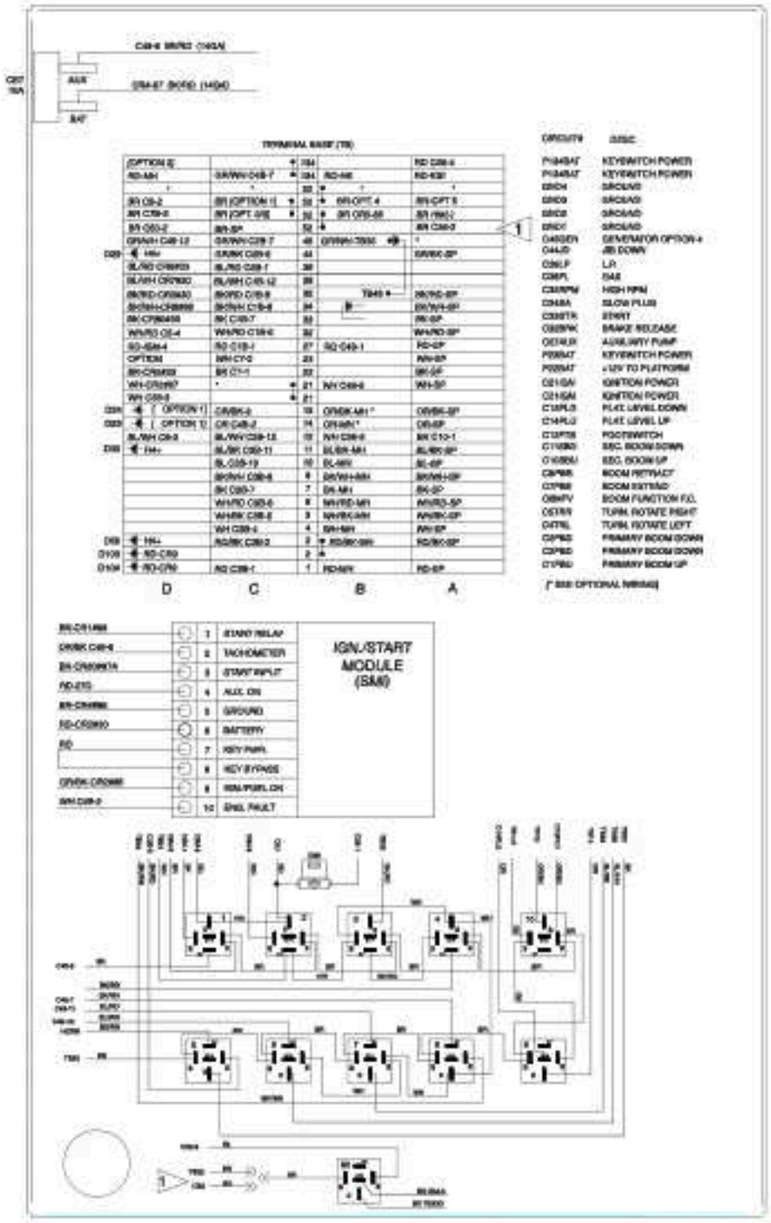


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Ground Control Box Terminal Strip Wiring Diagram - Gasoline/LPG Kubota WG972 Models

(from serial number Z3413-9461)





CONTROL RELAY I.D.

CR1-ENGINE START
CR2-ENGINE RUN
CR3-RPM CUTOUT
CR4-HIGH RPM
CR5-HORN
CR6-FUEL GAS
CR7-FUEL LPG
CR8-CHOKE
CR9-PLATFORM LEVEL W/INTERLOCK
CR10-PLATFORM LEVEL INTERLOCK
CR11-OIL COOLER FAN (OPT. 3)
CR12-DRIVE LIGHTS (OPT. 6)

OPTION NUMBERS

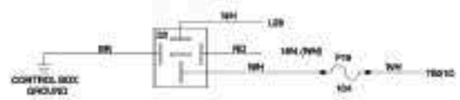
1 - PLATFORM LEVEL CUTOUT
2 - FLASHING BEACON
4 - AC GENERATOR
5 - OIL COOLER
6 - DRIVE LIGHT OPTION

SPARE WIRE LIST

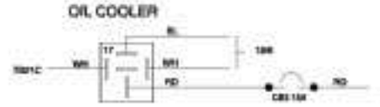
GR/WH-3
RD/WH-3

WIRE#	CIRCUIT#	FROM	TO	DESC
BR	J2	C56-1	C11-3	LS2-LS4 JUNCTION
WH	J1	C10-2	C11-4	LS1-LS2 JUNCTION
GR	EN(U)	SP	C09-5	JIB UP
OR	EN(D)	C56-2	C09-6	DFP-LIMIT SPRED
BL/WH	C07(CM)	MH	C13-17	STEER RIGHT
BL	C06(CC)	MH	C13-15	STEER LEFT
WH/BK	C01 REV	C5-3	C13-5	DRIVE REVERSE
WH	C00(FWD	C5-2	C13-4	DRIVE FORWARD
RD/WH	C08(HI)	C5-1	C13-3	HIGH/LOW DRIVE
RD/WH	C04**1A	MH	C13-2	TILT ALARM
GR/BK	E10(PRP	SP	C45-4	PLAT. ROTATE RIGHT
GR	E11(PRL	SP	C45-5	PLAT. ROTATE LEFT
GR/RD	E16(DE	C5-1	C45-4	DRIVE ENABLE
BL/RD	E13(DR)	C5-4	C45-1	DRIVE ENABLE LIGHT
BK/RD	C9(HN	C56-(B	C09-8	HORN
WH	C34(BUS	BSM(1)	C49-2	OIL / WATER SWITCH
WH/BK	C05(PSR)	SP	C49-3	OIL PRESS SENSOR
WH/RD	C07(TSR	SP	C49-1	WATER TEMP SENSOR

DRIVE LIGHT OPTION



OIL COOLER



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