A TEREX COMPANY

Service and Repair Manual

Serial Number Range

Z-40/23N

from Z40N13-1902 to Z40N16N-4499

Z-40/23N RJ

from Z40NN-4500

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 Specifications

Tires and wheels	Front	Rear
Tire size	22 x 7 x 17.75 in	25.6 x 7 x 22 in
(solid rubber)	56 x 17.8 x 45 cm	56 x 17.8 x 45 cm
Overall tire diameter	22in	25.6in
	55.9 cm	65 cm
Wheel diameter	18.4 in	22 in
	46.7 cm	56 cm
Wheel width	7 in	7 in
Wheel lugs	8 @ 5/8 - 18	9 @ 5/8 - 18
Lug nut torque		
(lubricated)	94 ft-lbs	94 ft-lbs
	127.5 Nm	127.5 Nm
(dry)	125 ft-lbs	125 ft-lbs
	169.5 Nm	169.5 Nm

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

Fluid capacities	
Hydraulic tank	8 gallons
	30.3 liters
Hydraulic system	10 gallons
(including tank)	37.9 liters
Drive hubs	23 fl oz
	680 cc
Drive hub oil type:	EP 80-90W gear oil
	API service classification GL5

Batteries	
Type	6V DC
Group size	L16GH
Quantity	8
Capacity	390 AH
Reserve capacity @ 25A rate	789 minutes
Weight, each	101 lb
	46 kgs

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Control System Fault Codes

How to Retrieve Control System Fault Codes from the Platform Controls

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

1 Turn the key switch to platform control.

2 Pull out the red Emergency Stop button to the on position at both the ground and platform controls.

3 Do not press down the foot switch.

4 Move and hold the drive enable toggle switch in the right direction and hold the steer rocker switch in the right direction.

5 When the display leaves SYSTEM READY mode, release the drive enable toggle switch and the steer rocker switch.

⊙ Result:The display will show FAULTS.

To access active faults:

6 Momentarily activate the drive enable toggle switch in the right direction until ACTIVE FAULTS is shown on the display.

7 Momentarily activate the drive enable toggle switch in the right direction to access the active fault codes.

8 Activate the steer rocker switch in the right direction to scroll through the fault codes.

To access motor controller faults:

9 Momentarily activate the drive enable toggle switch in the right direction until ACTIVE FAULTS is shown on the display.

10 Activate the steer rocker switch in the right direction until MOTOR CONTROLLER FAULTS is shown on the display.

11 Momentarily activate the drive enable toggle switch in the right direction to access the motor controller fault codes.

12 Activate the steer rocker switch in the right direction to scroll through the fault codes.

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

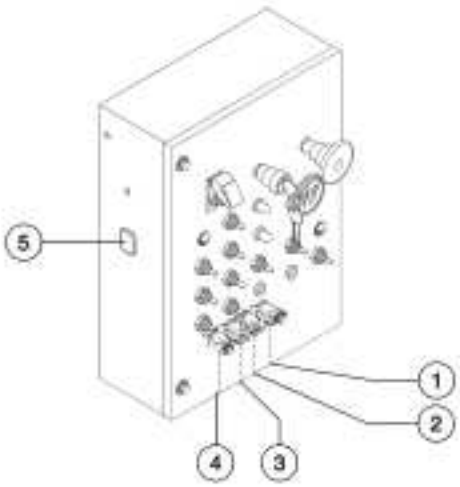
14 To exit the fault code screen, momentarily activate the drive enable toggle switch to the left direction until FAULTS is shown on the display.

To exit programming mode:

15 Push in the red Emergency Stop button at the platform controls. Wait approximately 5 seconds and then pull out the red Emergency Stop button out to the on position.

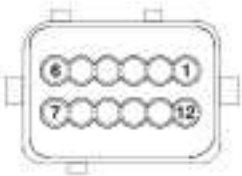
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Ground Control Box Pin Legend



Harness Legend

1 C4
2 C3
3 C2
4 C1
5 C5

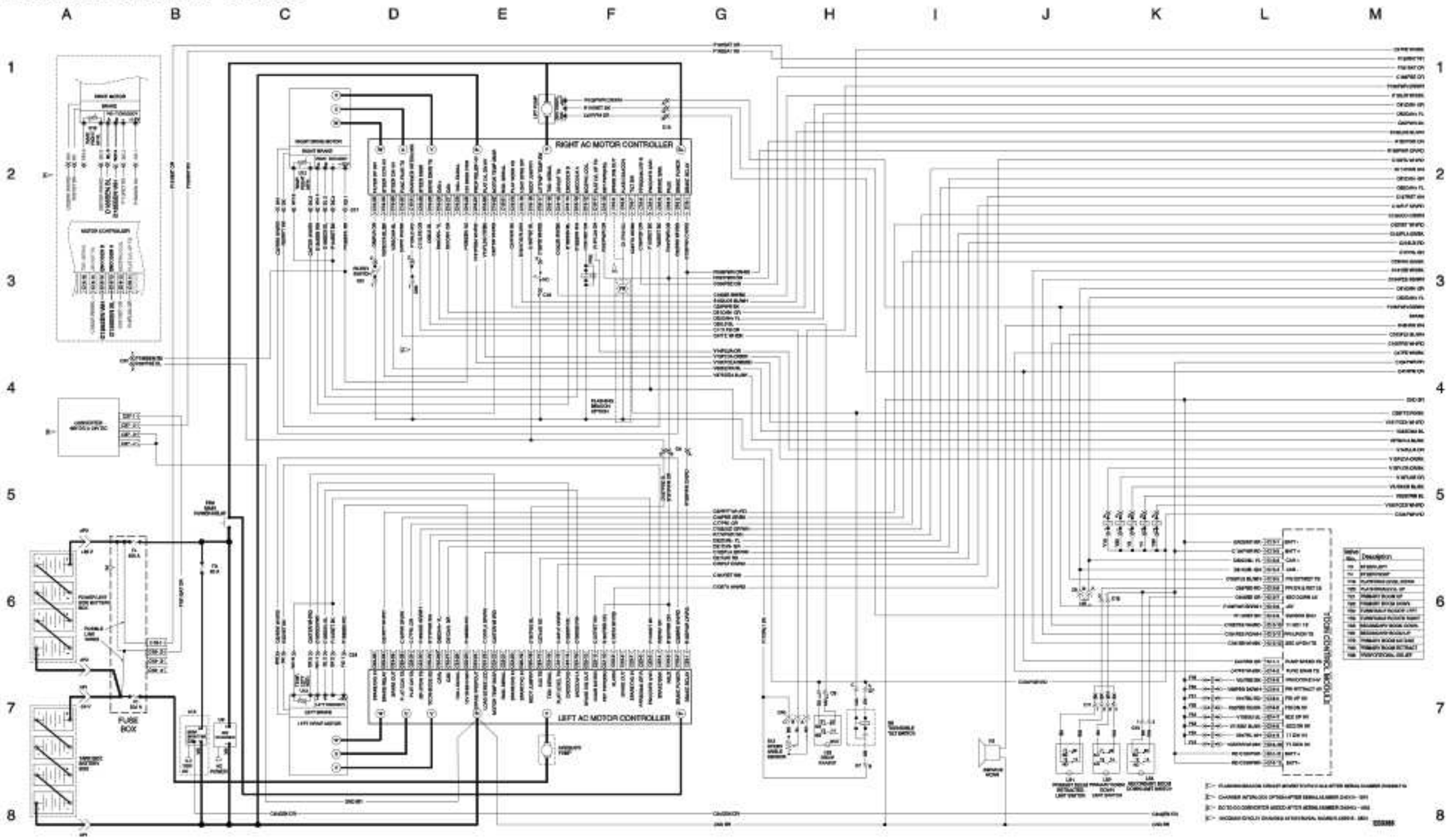


Pin Numbering for 12 pin connectors

C1 Ground Control Box Harness		C2 Ground Control Box Harness		C3 Ground Control Box Harness		C4 Ground Control Box Harness		C5 Ground Control Box Harness	
1	R195PWR - OR/RD	1	C16PRR - GR/BK	1	C41RPM - OR	1	P23BAT - RD	1	C28TTS - RD/BK
2	R181PWR - OR	2	C17PRL - GR	2	C134PWR - RD	2	P22BAT - RD/BK	2	V191PCEA - WH/RD
3	S132LDS - BL/WH	3	C27AUX - RD	3	C47FE - WH/BK	3	GND - RD/WH	3	V36SCWA - BL
4	C22PWR - BK	4	C133PLA - GR/BK	4	C165TRS - WH/RD	4	C134PWR - WH/BK	4	V37SCCA - BL/BK
5	D82CAN(+) - YL	5	C32RET - WH/RD	5	C163PLS - BL/WH	5	D82CAN(+) - YL	5	V14PLUA - OR
6	D81CAN(-) - GR	6	C156JUD - GR/WH	6	R46HRN - WH	6	D81CAN(-) - GR	6	V15PLDA - OR/BK
7	C192JR - WH/BK	7	C16PLF - OR/RD	7	SPARE	7	C27AUX - WH/RD	7	V15PLDB - OR/BK
8	P109PWR - GR/WH	8	C197RET - WH	8	P109PWR - GR/WH	8	C46HRN - BK	8	V14PLUB - OR
9	C184PSE - OR	9	D82CAN(+) - YL	9	D82CAN(+) - YL	9	S132LDS - BK/WH	9	V37SCCB - BL/BK
10	P181BAT - OR	10	D81CAN(-) - GR	10	D81CAN(-) - GR	10	R181PWR - BL	10	V36SCWB - BL
11	P182BAT - RD	11	R174PWR - WH	11	C164PES - RD/WH	11	GND - BL/BK	11	V191PCEB - WH/RD
12	C47FE - WH/BK	12	C130TA - WH/RD	12	C161SB - WH/BK	12	SPARE	12	C134PWR - RD

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Electrical Schematic - Chassis



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