A TEREX COMPANY

Service and Repair Manual

Z®-60/37 DC
Z®-60/37 FE

Serial Number Range
from Z6016N-101 to Z6016N-599
from Z60N-600

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	Rough terrain
Tire size (Rough terrain)	355/55D625
Tire weight, foam-filled (minimum) (Rough terrain)	426 lbs 193 kg
Tire weight, foam-filled (minimum) (Rough terrain non marking)	426 lbs 193 kg
Tire ply rating	14
Wheel lugs	9 @ 5/8 - 18
Lug nut torque, dry	240 ft-lbs 325 Nm
Lug nut torque, lubricated	180 ft-lbs 244 Nm
Overall tire diameter (Rough terrain, low profile tires)	36.9 in 93.7 cm
Fluid capacities	
Fuel tank	17 gallons 64.4 liters
Hydraulic tank	18 gallons 68 liters
Hydraulic system (including tank)	21 gallons 80 liters
Drive hubs	24 fl oz 710 cc
Turntable rotation drive hub	43 fl oz 1262 cc

Drive hub oil type:

SAE 90 multipurpose hypoid gear oil API service classification GL5

Batteries	
Type	L16G-AC lead acid AGM dry cell
Group	903-L16
Quantity	8
Capacity (lead acid) (dry cell)	390 AH 415 AH
Reserve capacity @ 25A rate	789 minutes 885 minutes
Weight	Refer to *Machine Component Weights*

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

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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 one short beep every 30 seconds. Refer to Navigation Menus, *Faults Menu*.

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 steer in the right direction.

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

⊙ Result: The display will show FAULTS.

To access active faults list:

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 steer in the right direction to scroll through the fault codes. Fault codes will be listed in order 1 through 16.

To access fault history list:

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 FAULT HISTORY is shown on the display.

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

12 Activate the steer rocker switch in the right direction to scroll through the fault codes. Fault codes will be listed in order 1 through 16.

13 Refer to the *Control System Fault Codes* chart to aid in troubleshooting the machine by pinpointing the area or component affected

To clear fault history

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

15 Activate steer in the right direction until CLEAR FAULTS HISTORY is shown on the display.

16 Momentarily activate the drive enable toggle switch in the right direction to enter CLEAR FAULTS HISTORY.

⊙ Result: CLEAR FAULT HISTORY? NO will appear on the display.

17 Momentarily activate drive enable right to enter menu.

⊙ Result: Enable will appear at the bottom of the display.

18 Activate steer in the right direction to change the display from NO to YES.

19 Activate the drive enable toggle switch in the right direction to accept the change.

⊙ Result: The alarm will sound for one second. All fault history listings and counters will be cleared.

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Schematics



Observe and Obey:

- R Troubleshooting and repair procedures shall be completed by a person trained and qualified on the repair of this machine
- R Immediately tag and remove from service a damaged or malfunctioning machine.
- R Repair any machine damage or malfunction before operating the machine.

Before Troubleshooting:

- R Read, understand and obey the safety rules and operating instructions in the appropriate operator's manual on your machine.
- R Be sure that all necessary tools and test equipment are available and ready for use.

About This Section

There are two groups of schematics in this section.

Electrical Schematics

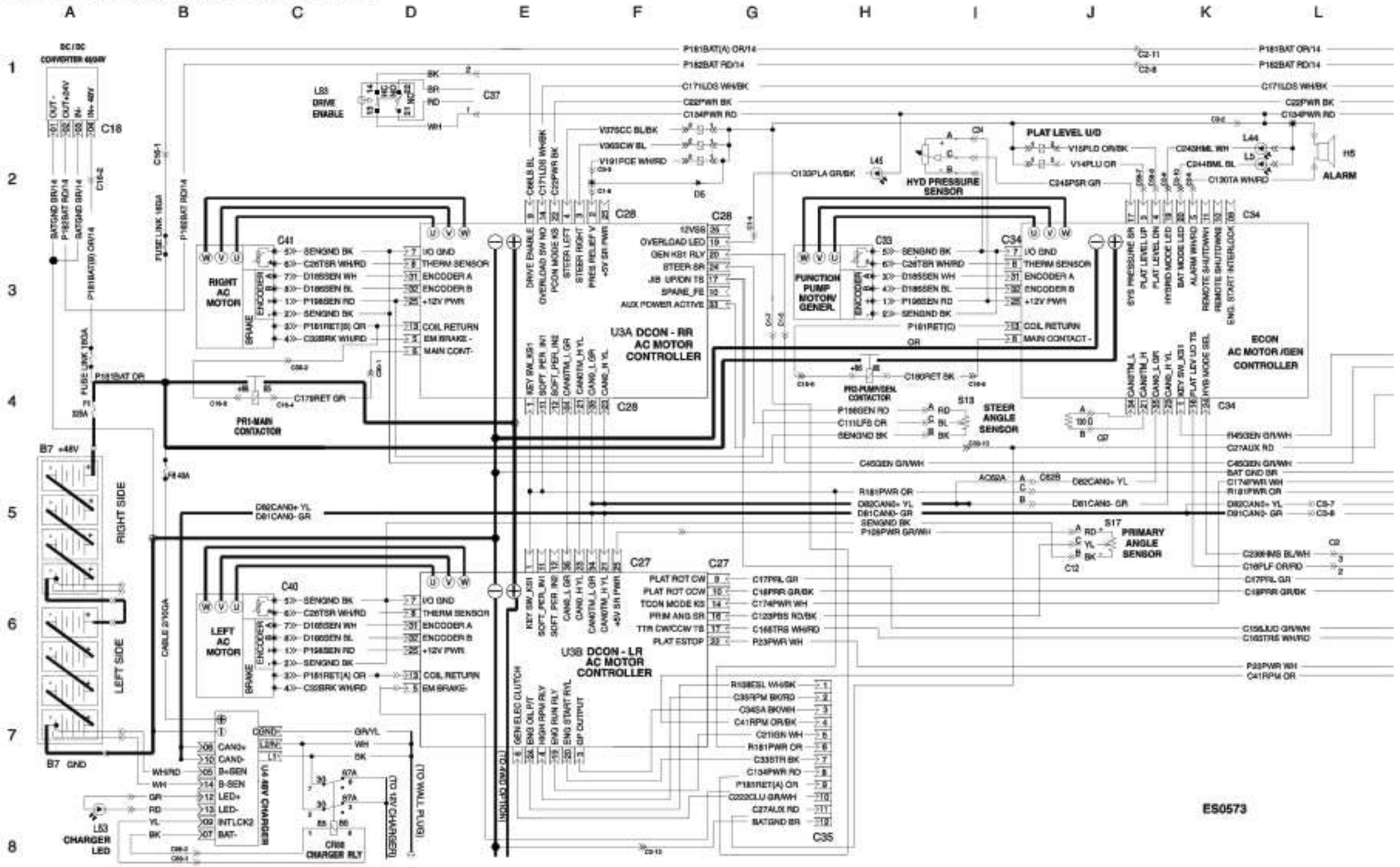
⚠WARNING Electrocution/burn hazard. Contact with electrically charged circuits could result in death or serious injury. Remove all rings, watches and other jewelry.

Hydraulic Schematics

⚠WARNING Bodily injury hazard. Spraying hydraulic oil can penetrate and burn skin. Loosen hydraulic connections very slowly to allow the oil pressure to dissipate gradually. Do not allow oil to squirt or spray.

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Electrical Schematic, DC/FE Models


DC/DC CONVERTER 48/24V
C18
LS3 DRIVE ENABLE
C37
P161BAT(A) OR/14
P162BAT RD/14
C171LDS WH/BK
C22PWR BK
C134PWR RD
V075CC BL/BK
V093CW BL
V191PCE WH/RD
D6
C28
C28
C28