A TEREX COMPANY

Service Manual

ZX-135/70

Serial Number Range

From ZX13513-2001
to ZX13514-2532

(does not include
ZX13514-2463,
ZX13514-2469 and
ZX13514-2531)

Part No. 218700
Rev F
September 2015

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Specifications

Perkins 854F-34T cont.	
Engine coolant	Ethylene Glycol
Capacity (50/50 extended life)	16.5 quarts 15.6 liters
Coolant temperature switch	
Installation torque	18.4 ft-lbs 25 Nm
Maximum continuous temperature	226°F 108°C
Temperature Sensor Settings	
215°F 102°C	37 ohms
170°F 82°C	78 ohms
Alternator output	120A @ 12V DC
Fan belt deflection	3/8 to 1/2 inch 9 to 12 mm

Machine Torque Specifications

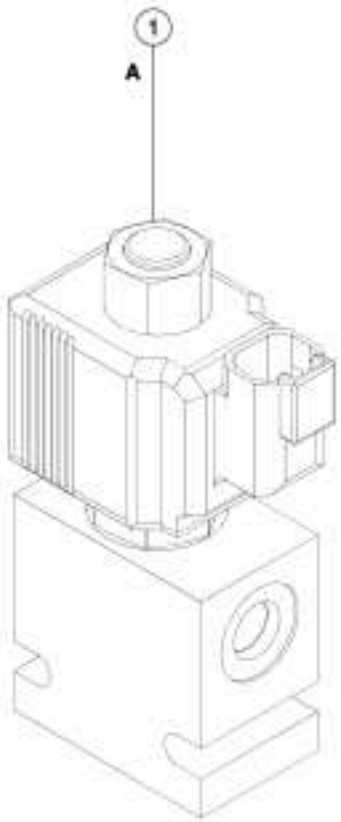
Platform Rotator	
1-8 center bolt, GR 5	480 ft-lbs 651 Nm
3/8 -16 bolts, GR 8	44 ft-lbs 60 Nm
Turntable rotate assembly	
Rotate bearing mounting bolts, lubricated (3/4 -10 SHC)	320 ft-lbs 434 Nm
Rotate bearing mounting bolts, lubricated (5/8 -11 SHC)	180 ft-lbs 244 Nm
Rotate drive hub mounting bolts, lubricated	80 ft-lbs 108 Nm
Drive motor mounting bolts, dry	75 ft-lbs 102 Nm
Drive motor mounting bolts, lubricated	56 ft-lbs 76 Nm
Backlash plate mounting bolts, lubricated	320 ft-lbs 434 Nm
Drive motors and hubs	
Drive hub mounting bolts, lubricated	180 ft-lbs 217 Nm
Drive motor mounting bolts, dry	75 ft-lbs 102 Nm
Drive motor mounting bolts, lubricated	56 ft-lbs 76 Nm
Engine vibration isolators	
Mounting bolts, dry	60 ft-lbs 81 Nm
Mounting bolts, lubricated	45 ft-lbs 61 Nm

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8-6
Function Enable Valve

The function enable valve is mounted behind the medium pressure filter.

Index No.	Description	Schematic Item	Function	Torque
1	Solenoid valve, 2 position, 2 way	A	Enables lift pump to provide hydraulic pressure for all boom and steer/axle functions	20-25 ft-lbs / 27-34 Nm



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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 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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Checklist B Procedures

B-24
Inspect the Calibration Decal

Genie specifications require that this procedure be performed every 250 hours or quarterly, whichever comes first.

Maintaining the safety decal in good condition is mandatory for safe machine operation. Decals alert operators and personnel to the many possible hazards associated with using this machine. They also provide users with operation and maintenance information. An illegible decal will fail to alert personnel of a procedure or hazard and could result in unsafe operating conditions.

1 Turn the key switch to the off position and push in the red Emergency Stop button to the off position at the ground controls.

2 Open the turntable cover on the ground controls side of the machine.

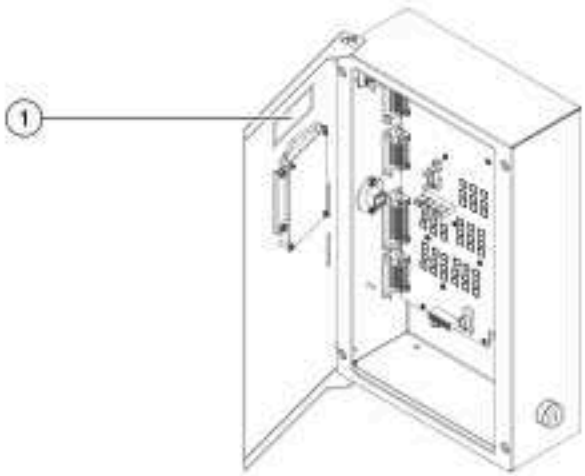
3 Open the ground control box.

4 Verify the ground control panel is equipped with the required calibration decal.

⊙ Result: The control box is equipped with the required decal and is legible and in good condition.

☒ Result: The control box is not equipped with the required decal, or is illegible or in poor condition. Remove the machine from service until the decal is replaced.

Note: Contact your authorized Genie distributor or Genie if a replacement is required.



1 calibration decal

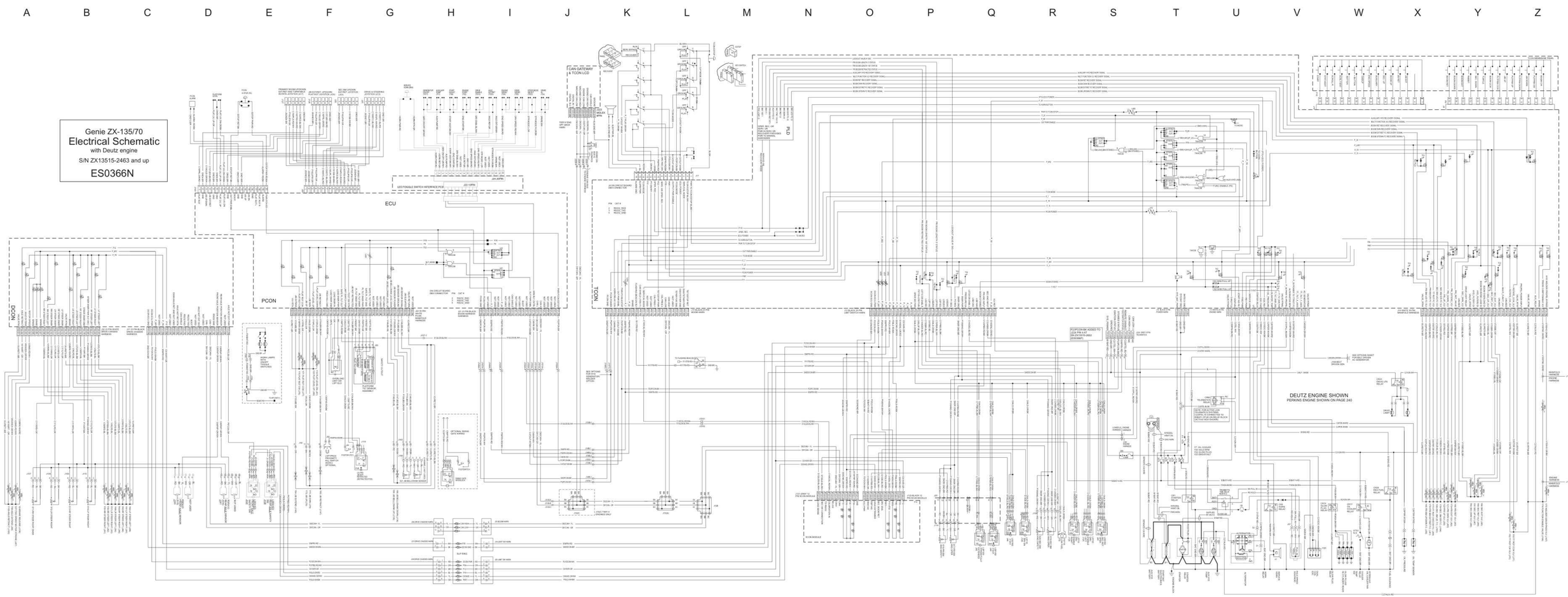


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