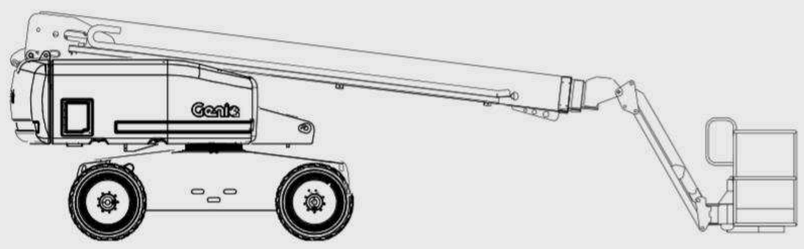
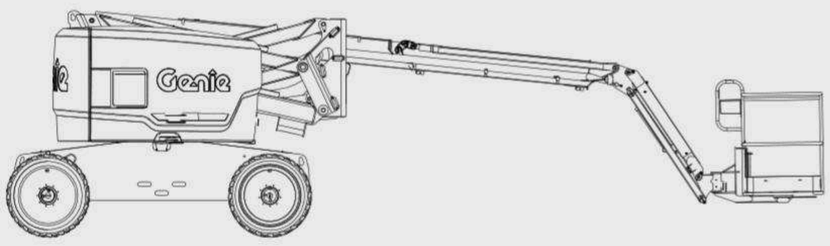
Genie®
A TEREX COMPANY

Maintenance Manual - Booms

S® Booms



Z® Booms



Refer to the inside cover for a list of models included in this manual.

This manual includes detailed procedures for each maintenance inspection.

For Repair procedures, Fault Codes, Electrical and Hydraulic Schematics, refer to the appropriate Service and Repair Manual for your machine.

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Engine Specifications

404D-22T	
Low idle (standby)	1000 rpm 500 Hz
Low idle (with function enable)	1500 rpm 750 Hz
High idle	2500 rpm 1250 Hz
Oil capacity (including filter)	9.4 to 11.2 quarts 8,9 to 10,6 liters
Engine coolant capacity	13.3 quarts 12,6 liters
Fan belt deflection	0.375 to 0.5 inches 9 to 12 mm

404F-22	
Low idle (standby)	1000 rpm 500 Hz
Low idle (with function enable)	1500 rpm 750 Hz
High idle	2500 rpm 1250 Hz
Oil capacity (including filter)	9.4 to 11.2 quarts 8,9 to 10,6 liters
Engine coolant capacity	13.3 quarts 12,6 liters
Fan belt deflection	0.375 to 0.5 inches 9 to 12 mm

404F-22T	
Low idle	1300 rpm 650 Hz
High idle	2300 rpm 1150 Hz
Oil capacity (including filter)	9.4 to 11.2 quarts 8,9 to 10,6 liters
Engine coolant capacity	13.3 quarts 12,6 liters
Fan belt deflection	0.375 to 0.5 inches 9 to 12 mm

404F-E22T	
Low idle (standby)	1000 500 Hz
Low idle (with function enable)	1500 rpm 750 Hz
High idle	2500 rpm 1250 Hz
Oil capacity (including filter)	9.2 to 11.2 quarts 8,9 to 10,6 liters
Engine coolant capacity	8.8 quarts 8,3 liters
Fan belt deflection	0.375 to 0.5 inches 9 to 12 mm

404F-E22TA	
Low idle (standby)	1000 500 Hz
Low idle (with function enable)	1500 rpm 750 Hz
High idle	2500 rpm 1250 Hz
Oil capacity (including filter)	9.2 to 11.2 quarts 8,9 to 10,6 liters
Engine coolant capacity	9.8 quarts 9,3 liters
Fan belt deflection	0.375 to 0.5 inches 9 to 12 mm

804D-33	
Low idle (with generator)	1400 rpm 284.7 Hz
Low idle (without generator)	1650 rpm 335.5 Hz
High idle	2300 rpm 467.7 Hz
Oil capacity (including filter)	10.6 quarts 10 liters
Engine coolant capacity	12.5 quarts 11,8 liters
Fan belt deflection	0.375 to 0.5 inches 9 to 12 mm

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Quarterly Maintenance Procedures

Q-3
Inspect the Electrical Wiring



Genie specifications require that this procedure be performed quarterly.

Maintaining electrical wiring in good condition is essential to safe operation and good machine performance. Failure to find and replace burnt, chafed, corroded or pinched wires could result in unsafe operating conditions and may cause component damage.

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

1 Inspect the following areas for burnt, chafed, corroded pinched and loose wires:

Note: Inspection areas will vary by model.

- Engine wiring harness
- Engine relay block
- Hydraulic manifold wiring
- All wire harness connectors to ground control box
- Inside of the ground control box
- Turntable area
- Cable tracks
- Cables on the primary, secondary and jib booms
- Jib boom/platform rotate manifold
- Inside of the platform control box
- All wire harness connectors to platform control box
- Battery compartment
- Battery separator
- Battery charger
- Contactor
- Motor controller
- Electric motor
- Pump motor
- Limit switches
- Rotary sensors

2 Inspect for a lite, even coating of dielectric grease on all harness connections.

Note: Do not apply excessive amounts of dielectric grease to harness connectors, pins or sockets.

Note: Do not apply dielectric grease to a engine ECU/ECM or engine harness connectors.

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Programmed Maintenance Procedures

16 Raise the machine, remove the jack stands lower the machine.

17 Drive the machine in either direction just until the remaining sprocket retaining fasteners can be installed onto the drive hub adapter. Turn the machine off.

18 Install the remaining sprocket retaining fasteners to the drive hub adapter and torque to specification. Refer to Torque Specifications, *TraX Torque Specifications*.

19 Repeat this procedure for each drive hub.

Turntable Rotate Drive Hub:

1 Secure the turntable from rotating with the turntable rotation lock pin.

2 Tag, disconnect and plug the hydraulic hoses to the drive hub drive motor and brake.

⚠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.

3 Attach a suitable lifting device to the lifting eye of one turntable rotate drive hub assembly.

4 Remove the drive hub mounting bolts from the drive hub assembly. Carefully remove the turntable rotate drive hub assembly from the machine.

Note: If equipped with two turntable rotation drive hub assemblies, do not remove them both at the same time.

⚠WARNING Crushing hazard. The turntable rotate drive hub assembly could become unbalanced and fall when removed from the machine if not properly supported by the lifting device.

5 Remove the plug from the side of the drive hub. Drain the oil from the hub into a suitable container.

6 Install the drive hub assembly onto the machine. Lubricate and torque the drive hub mounting bolts to specification. Refer to Specifications, *Machine Torque Specifications*.

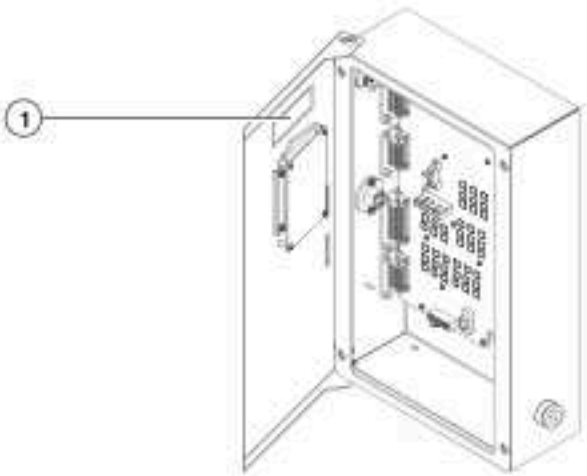
7 Fill the drive hub with oil. Apply pipe thread sealant to the plug. Install the plug. Refer to Specifications, *Hydraulic Specifications*.

8 If equipped with two turntable rotation drive hub assemblies, repeat steps 2 through 7 for the other turntable rotate drive hub assembly.

9 Adjust turntable rotation gear backlash. Refer to Repair Procedure in the appropriate Service and Repair Manual for your machine, *How to Adjust the Turntable Rotation Gear Backlash*.

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Quarterly Maintenance Procedures



1 calibration decal



ANSI / CSA



CE / AUS

Q-18
Test the Recovery System - ALC-1000 Models

Genie specifications require that this procedure be performed quarterly.

A properly functioning recovery system is essential to safe machine operation. The Recovery mode allows the platform to be lowered in the event the operator in the platform is unable to lower the platform using the platform controls, system failure or emergency situations.

This maintenance procedure applies to the following models: **S-100, S-105, S-120, S-125, S-100HD, S-120HD, SX-105XC, SX-125XC, SX-135XC, SX-150, SX-180, Z-80/60, Z-135/70 and ZX-135/70.**

Note: Perform this procedure with the machine on a firm, level surface with the axles extended.

Note: Perform this procedure with all weight, tools, equipment and personnel removed from the platform.

Note: If any boom safety limit switches are faulty, the primary boom will only retract and not lower.

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