TEREX®

Service Manual

Compact Track Loader

PT-30

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2. Technical Specifications & Service Tools

PT-30 Specifications

Engine
- Model: Perkins 403-D15
- Displacement: 1.5 liter
- Gross horsepower: 33.7 hp (25.1 kW)
- Peak Torque: 64.39 lb-ft. (87 Nm)
- Idle rpm: 1175 (low idle), 2800 (high idle)
- Average water /thermostat temperature: 190°F, 87.8°C

Transmission
- Model: A10VG18 tandem (Rexroth)

Drive Pumps
- Displacement: 1.098 in3/rev (18 cc/rev)
- Relief pressure: 3800 psi (26,200 kPa)
- Flow: 13 gpm (11.4lpm) @ 2800 rpm (per pump)

Charge Pumps (2)
- Displacement: .33 in3/rev (5.4 cc/rev) x2
- Relief pressure: 360 +/- 20 psi (24.82 bar)
- Flow: 3 gpm (11.4 lpm combined) @1175 rpm
- Flow: 8.1 gpm (30.7 lpm combined) @2800 rpm

Drive Motors
- Model: Rexroth Sauer Danfoss
- Displacement: 19.215 in3/rev (314.9 cc/rev)

Pilot Controls (Joysticks)
- Model: Rexroth 4TH6

Auxiliary Pump
- Make: Rexroth
- Type: Gear
- Displacement: 0.87 in3/rev (14.3 cc/rev)
- Max Flow: 10 gpm (37.9 lpm) @ 2800 rpm
- Relief pressure: 3000 psi (20,684 kPa)
- Cooling/filtering: Oil is filtered and cooled at all times. In auxiliary mode, the oil is filtered after the attachment to protect the machine if the attachment motor fails or contaminants are introduced from the quick couplers.

Lift Arm Control Valve
- Make: Husco
- Relief Pressure: 3000 psi (20,684 kPa)
- Pilot pressure required to move spools: 180-220psi (1241-1517 kPa)

Oil Cooler
- Operating pressure: 250 psi (1724 kPa)
- Bypass relief pressure: 80 psi (551.6 kPa)
- Hot oil sending unit: 225°F (107.2°C)
- Avg. oil operating temp. 50-60°F (10-16°C) above ambient. (extreme application 80°F , 27°C above ambient.)

Critical Torque Specs
- Transmission Mounting Bolts
  - 80 ft-lb (108 Nm). w/Blue Loctite
- Drive Sprocket Drive Teeth Bolts
  - 62 ft-lb (84 Nm). -Dry
- Bogie Wheel Retaining Nuts
  - 110 ft-lb (149 Nm). - Dry
- Drive Sprocket Retaining Bolt (Serial # 00101-05000)
  - 60 ft-lb (81 Nm). w/Blue Loctite
- Drive Sprocket Retaining Castle Nut (Serial # 05001-Current)
  - 270 ft-lb (366 Nm)

Service Tools

Listed below are common service tools which are identified and utilized in the service procedures described in this manual. Use tools recommended by Terex whenever possible to reduce risk of injury and or machine damage during service.

- Heavy Duty Hydraulic Jack (5-ton rating)
- Test Gauge Kit (P/N: 0402-935)
- Long Pry Bar(s)

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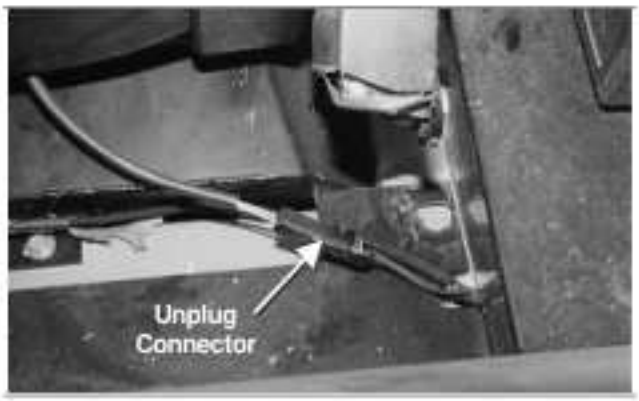


Figure 6-2

2. Tilt the seat forward and reach behind the seat to unplug the seat switch wiring harness.



Figure 6-3

3. Remove the seat. Be careful not to scratch the control panel or sides of the cab.

Seat Installation



Figure 6-4

1. With the seat mounts attached, place the seat in the cab. Be careful not to scratch the control panel or sides of the cab.

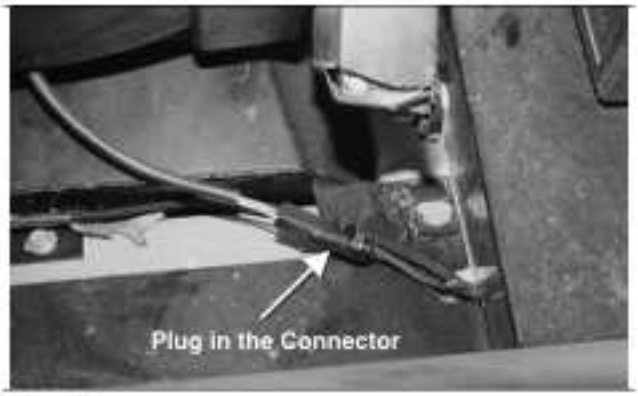


Figure 6-5

2. Tilt the seat forward and reach behind the seat to plug in the seat switch connector

Note: The machine will not operate unless the seat switch connector is plugged in.

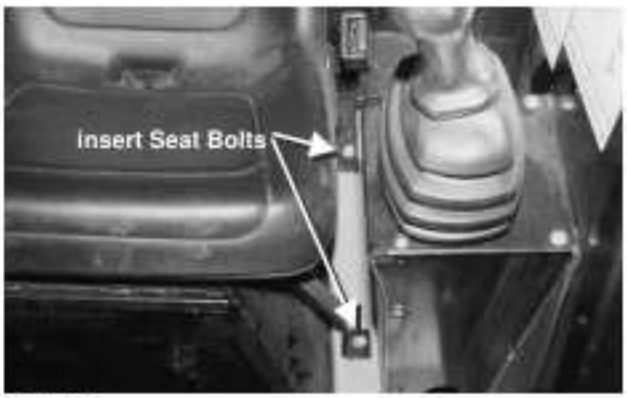


Figure 6-6

3. Position the seat so the holes in the seat mounts are aligned with the holes in the frame. Insert the four seat mount bolts and washers.

Fuel Sending Unit Removal and Installation

The tools required for fuel sending unit removal and installation are listed in Table 6-2. Use manufacturer-recommended tools whenever possible.

Table 6-2

Required Tools
Screwdriver
Combination Wrench
Socket Wrench

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15. Troubleshooting

Chapter Overview

This chapter contains basic troubleshooting procedures for the Compact Track Loader.

Additional troubleshooting aids are provided in *Chapter 3. System Diagrams* and in those chapters containing disassembly and assembly procedures for the appropriate component or assembly.

⚠ Personal Safety

Improper or incomplete maintenance/repair of a Compact Track Loader can be dangerous and may result in machine damage, injury or death.

Do not attempt to perform any type of repair or maintenance on a Compact Track Loader until you have read and fully understood the information in this manual.

Refer to the Operation and Maintenance manual for instructions regarding proper machine operation techniques before operating any Compact Track Loader.

Prior to performing any type of service work on a Compact Track Loader, read and understand Chapter 1 (Product Safety) for personal safety information.

⚠ Machine Preparation

Accidental machine starting can cause injury or death to personnel working on a Compact Track Loader.

As a precaution, disconnect the battery cables from the battery terminals, tape the battery clamps and remove the key from the ignition switch prior to performing any service work on a Compact Track Loader.

Place a "Do Not Operate" tag prominently on the machine to inform personnel that the machine is being worked on.

Preliminary Inspection

A simple visual inspection and operational check can identify many problems without the need for extensive troubleshooting. If these checks indicate a problem that requires further analysis, proceed to *Troubleshooting* in this section.

Visual Inspection

Prior to troubleshooting, perform a visual inspection of the machine. Look for missing, loose or worn parts. Perform the following visual checks.

- Track tension
- Fluid levels
- Fan belt tension and condition
- Hoses (no visible sign of wear)
- Fittings (no leaks)
- Battery cables
- Fuse box (fuses in place and operational)
- Controls (for neutral)

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Attachments

Only use attachments that are recommended by Terex.

Make sure that all necessary guards and protective

When replacement parts are required for your machine, use only genuine Terex replacement parts or parts that meet or exceed original specifications including, but not limited to physical dimensions, type, strength and material.

Installing lesser components can lead to premature failures, product damage, personal injury or death.

equipment are in place and functioning prior to operating any attachment.

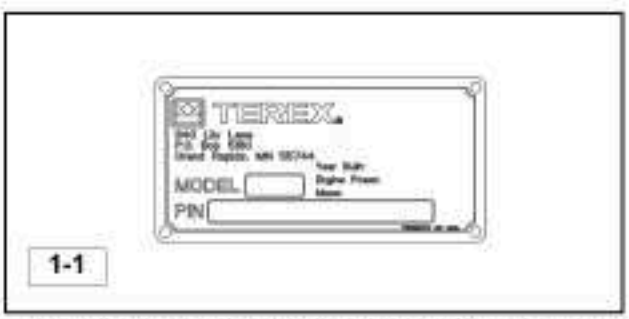
Wear protective glasses and protective equipment as required by conditions or as recommended in the attachment's operation manual.
Ensure that all personnel are far enough away from the work area so they will not be struck by flying objects.

Stay clear of the cutting edges, pinching surfaces or crushing surfaces of the attachment while performing any attachment maintenance, testing or adjustments.

Machine Labels and Decals

Labels and decals placed on the machine provide safety information and operating instructions. Familiarize yourself with the location and significance of these labels to ensure your safety.

Product Identification Number



The Product Identification Number (PIN) is located on the left side of the firewall next to the operator seat. (figure 1-1). Always provide the PIN when contacting the dealer about parts, service, warranty or accessories. No warranty claims will be processed unless the PIN is provided.



Safety Label

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