TEREX®

Service Manual

Compact Track Loader

PT-100G

PT-100G Forestry

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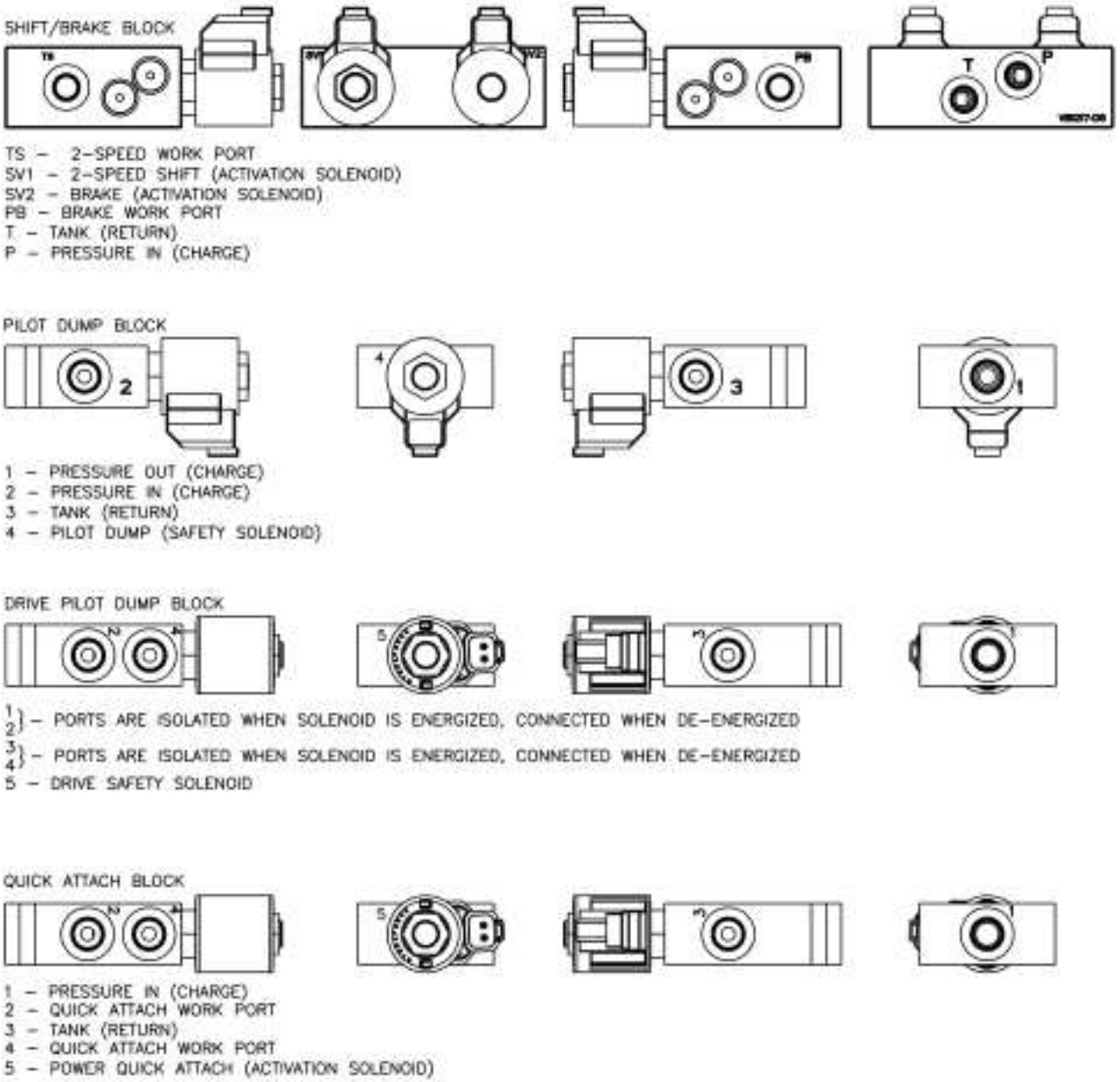
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Hydraulic Solenoid Blocks

Figure 3-6 PT-100G Hyd. Solenoid blocks



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Track Tension (PT-100G)

Proper track tension must be maintained for optimal performance and track/undercarriage life. Running a track that is too loose may cause the track to misfeed possibly causing damage to the track and or undercarriage components. Running a track that is too tight may cause the track to stretch, create premature bearing failure, or other preventable damage to the machine. As a rule, a track should only be tightened to the point where there is no visible sag. Never tighten your tracks beyond this point.

Note: During the first 50 hours of operation the tracks will "break-in" and will most likely require adjustment.

To check track tension: (fig. 4-7, 4-8)

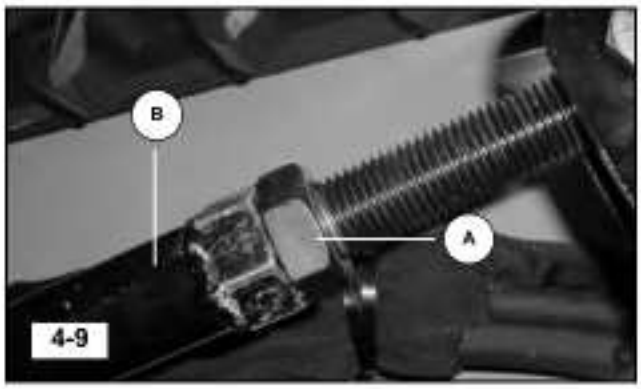
1. Drive the machine forward 5 feet to remove belt slack from the lower and rearward portions of the track.
2. Lay a straight edge along the top of the track bridging the drive sprocket and front idler wheel.
3. Apply 90 lbs. of down force to the the track by either placing weight on top, or by hanging the weight by using rope or wire, midway between the drive sprocket and front idler as seen in figure 4-8.
4. Measure from the bottom of the straight edge to the lug surface (top) of the track. The deflection should measure between 3/4" and 1" (1.9-2.5 cm).





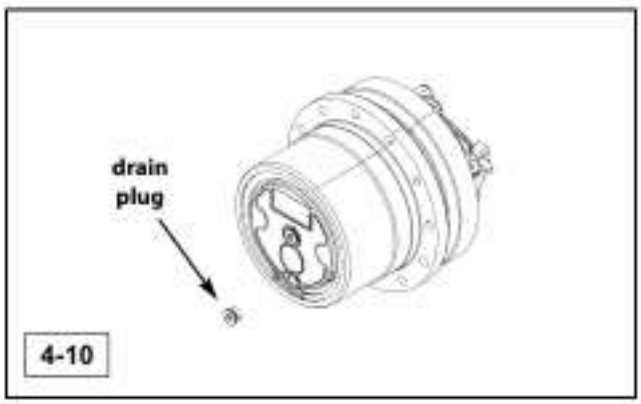
To adjust track tension: (fig. 4-9)

1. Loosen the lock nut (A) on the turnbuckle (B) and adjust by turning the turn buckle itself until proper tension has been achieved.
2. Then tighten the turnbuckle lock nut to complete the procedure.
3. Repeat the adjustment procedure on the other side of the machine if necessary.



Planetary Oil Change (fig. 4-10)

1. Place the machine on jackstands as described in jacking prodedure in this chapter.
2. Orient the perimeter drain plug at the very bottom of the drive motor, then turn the engine off and remove the key to avoid accidental start.
3. Remove the plug and drain the oil into a suitable catch container. (fig. 4-10) Dispose oil according to mandates.
4. Start the machine (make sure all personnel are clear of the machine), then roll the drive motor over so that the drain/fill hole is on the very top of the drive motor. Stop the engine and remove the key to avoid accidental start.
5. Fill the planetary with .95qt (.9l) of 75-140 synthetic gear oil, reinstall plug.
6. Repeat the procedure on the opposite drive motor.



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Problem 2:
Machine cranks, but will not start.
Possible causes
1. Engine ECU fuse blown.
2. Fuel tank empty, fuel filter plugged or fuel line restricted.
3. Battery discharged (engine rotates slowly).

If the possible causes found here do not appear to address your problem, refer to the:
- Perkins Engine Service Tool
- Control system troubleshooting guide (pg. 18-4)

Problem 3:
Machine starts, but hydraulics will not operate.
Possible causes
1. Operator not in seat.
2. Seat belt not fastened.

If the possible causes found here do not appear to address your problem, refer to the:
- Control system troubleshooting guide (pg. 18-4)
- PT-100G Service Tool (chapter 19)

Problem 4:
Lift arm/bucket controls are operational, but tracks will not move.
Possible causes
1. Parking brake switch in on position.
2. Low charge pressure.

If the possible causes found here do not appear to address your problem, refer to the:
- Control system troubleshooting guide (pg. 18-4)
- PT-100G Service Tool (chapter 19)

Problem 5:
Tracks are operational, but lift arms will not move.
Possible causes
1. Continuous hydraulic flow switch activated, sending oil over relief. (lift arms work, but move slowly)

If auxiliary flow hydraulics work check for:
a) Lift arm control valve assembly malfunction.

If auxiliary flow hydraulics do not work check for:
a) Main auxiliary relief malfunction (check pressures).

If the possible causes found here do not appear to address your problem, refer to the:
- Control system troubleshooting guide (pg. 18-4)
- PT-100G Service Tool (chapter 19)

Problem 6:
Lift arms are operational, but high/low flow auxiliary circuits are not.
Possible causes
1. Faulty or improperly connected quick coupler.
2. Quick coupler block pressure release stuck in down (open) position.

If the possible causes found here do not appear to address your problem, refer to the:
- Control system troubleshooting guide (pg. 18-4)
- PT-100G Service Tool (chapter 19)

Problem 7:
Multiple switches/electrical accessories are not operational in ON or RUN position.
Possible causes
1. Power A or B fuse blown.
2. Faulty power relay (A or B).

If the possible causes found here do not appear to address your problem, refer to the:
- Control system troubleshooting guide (pg. 18-4)
- PT-100G Service Tool (chapter 19)

Problem 8:
Battery will not charge/maintain charge.
Possible causes:
1. Loose alternator belt.
2. Loose, broken or disconnected wiring at battery, alternator, diode or fuse.
3. Excessive current draw with key in "off" position.
4. Faulty battery.
5. Faulty alternator.

If the possible causes found here do not appear to address your problem, refer to the:
- Control system troubleshooting guide (pg. 18-4)
- PT-100G Service Tool (chapter 19)

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⚠ Attachments

Only use attachments that are recommended by Terex.

Make sure that all necessary guards and protective 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.

> ⚠ **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.**

Ensure that all personnel are far enough away from the work area so they will not be struck by flying objects.

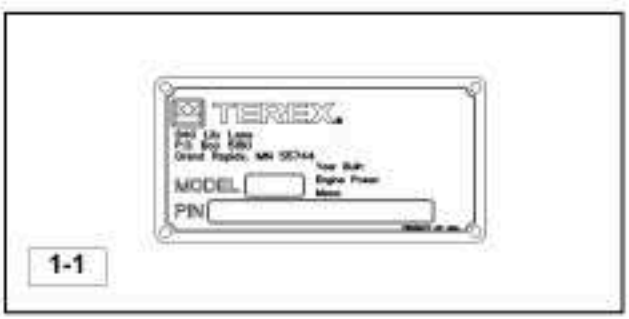
Stay clear of the cutting edges, pinching surfaces or crushing surfaces of the attachment while performing any attachment maintenance, testing or adjustments.

⚠ 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 front of the cab enclosure (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.



1-1

Safety Label Examples

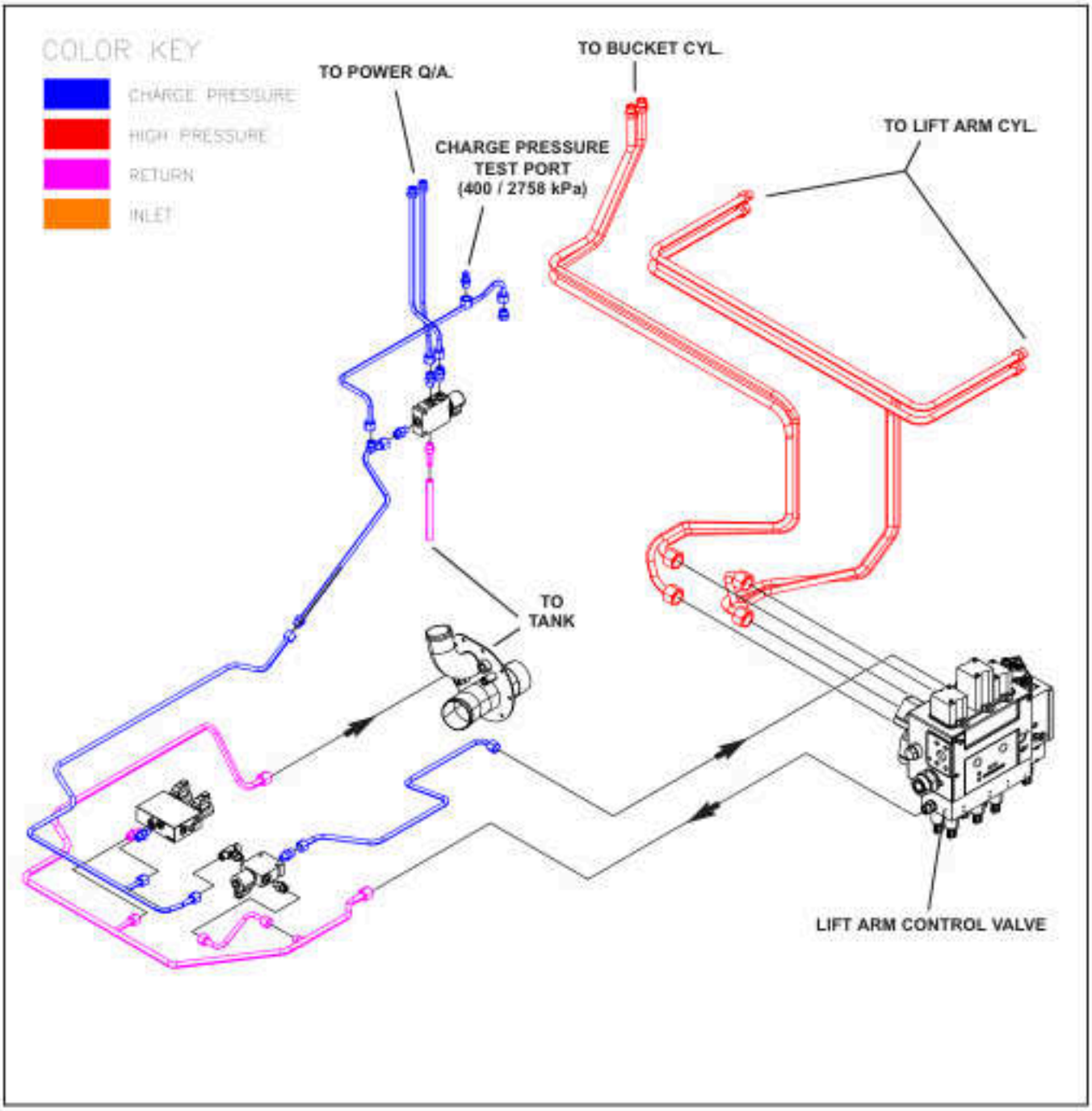
Examples of the labels and decals displayed on the machine are shown on this page.



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Hydraulic Control Circuit

Figure 3-3 PT-100G Hydraulic Control Circuit



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