MT52

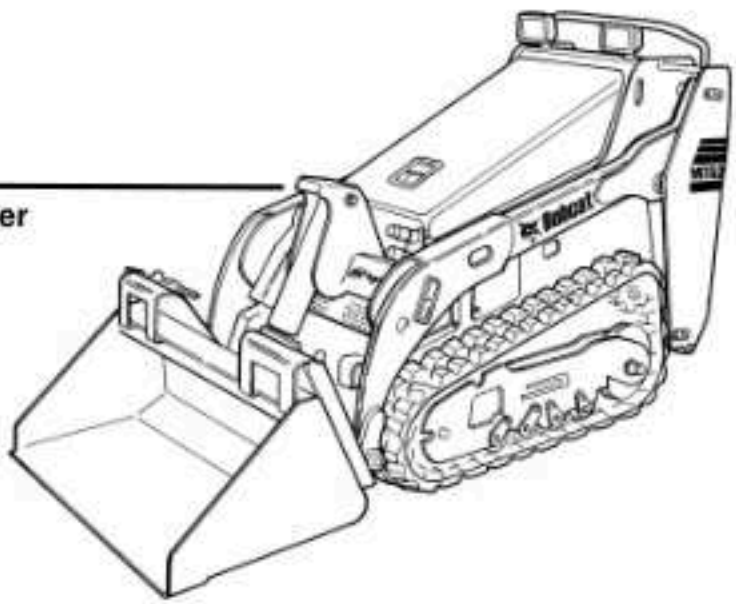
MT55

Bobcat®

Service Manual

S/N 528711001 & Above
S/N 528811001 & Above
S/N 538711001 & Above
S/N 538811001 & Above

Mini Track Loader



6903372 (2-07)

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Workgroup Troubleshooting Chart (Cont'd)

KEY TO CORRECT THE CAUSE
1. The hydraulic fluid level is low or air in the system.
2. The control lever linkage is disconnected.
3. The hydraulic pump has damage.
4. The control lever does not have smooth movement and/or is not returning to neutral position.
5. Relief valve is not at the correct pressure.
6. Suction leak on the inlet side of the hydraulic pump.
7. Fluid is cold. Wrong viscosity fluid. (See LOADER SPECIFICATIONS on Page SPEC-10-1.)
8. Using the loader for more than its rated capacity.
9. Internal leak in the cylinder(s).
10. External leak from the cylinder(s).
11. Damaged lift spool.
12. Excessive auxiliary hydraulics load.
13. Plugged oil cooler. (Air flow restricted)
14. Loose mounting hardware.
15. Lift or tilt lockout circuit or engine or pressure switch circuit failure.
16. Tilt or drive function over relief.
17. Spool not fully stroked.
18. Activate auxiliary control lever in both directions to release pressure.
19. Loose or damaged gear pump to engine coupler. (See Electrical Troubleshooting Chart on Page 60-10-1.)
20. Electric cooling fan not operating.
21. Refer to Electrical Service Manual
22. Check Charge Pressure Relief setting

Hydraulic Function Troubleshooting

NOTE: The orifice between the lift and auxiliary valve sections provides flow to the auxiliary while the lift is being actuated. The lift function will be reduced at low flow conditions such as low engine speed.

* Engine OFF - Always engage parking brake.

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NEUTRAL START SENSOR (S/N 528712430 & ABOVE, S/N 528811122 & ABOVE AND S/N 538712296 & ABOVE)

Description

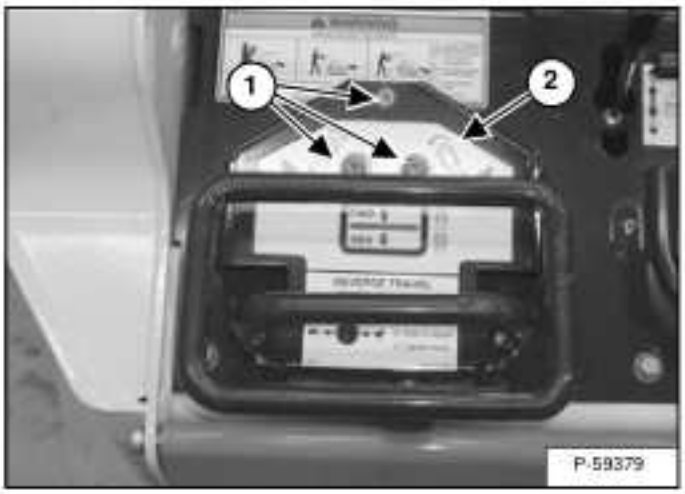
The neutral start sensor allows the machine to be started only when the drive controls are in the neutral position.

Adjustments are made at the drive control linkage for the sensor activation bolt. The mounting bracket for the neutral start sensor has slots for the mounting screws. This will allow adjustment to the neutral start sensor.

If a neutral start sensor circuit problem is suspected; check for the proper distance from the sensor to the sensor activation bolt, horizontal alignment of the sensor and alignment bolt or a missing magnet in the end of the sensor activation bolt.

Removal And Installation

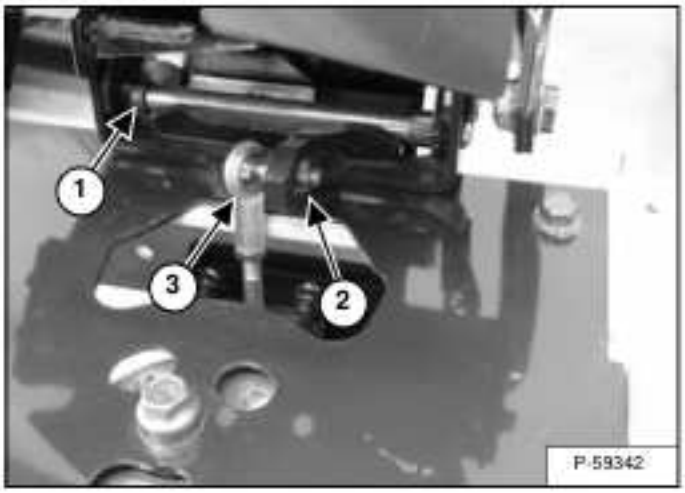
Figure 60-61-1



Remove the three bolts (Item 1) from the steering control panel (Item 2) **[Figure 60-61-1]**.

Installation: For proper assembly. (See Steering Assembly Removal And Installation on Page 30-50-2.)

Figure 60-61-2

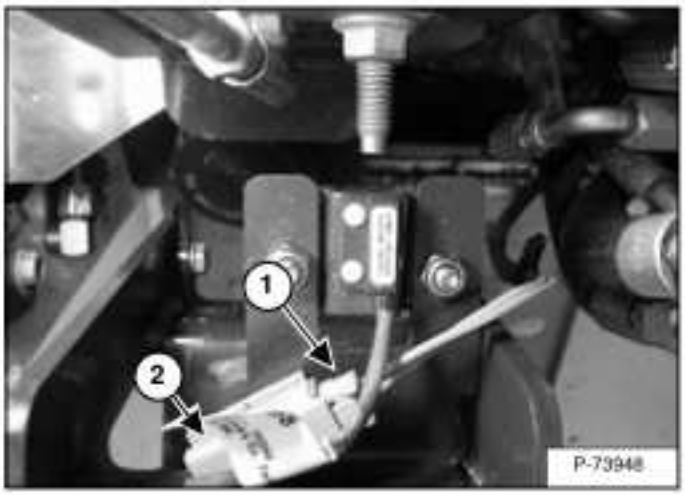


Lift the steering control panel (Item 1) **[Figure 60-61-2]**.

Remove the nut (Item 2) from the control rod end (Item 3) **[Figure 60-61-2]**.

Remove the steering control panel.

Figure 60-61-3



Disconnect the wire harness (Item 1) from the neutral start sensor connector (Item 2) **[Figure 60-61-3]**.

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LOADER SPECIFICATIONS (CONT'D)

Capacities

Cooling Systen	7 qt. (6,62 L)
Fuel Tank	7 Gal. (26,5 L)
Engine Oil W/Filter	3.8 qt. (3,59 L)
Hydraulic Reservoir	2.5 Gal. (9,46 L)
Hydraulic System (incl. reservoir)	5.3 Gal. (20,0 L)

Tracks

Standard **(MT52)**	7.0" (177 mm) wide, compression spring with triple flange rollers
Standard **(MT55)**	9.8" (250 mm) wide, compression spring with triple flange rollers

Ground Pressure

7.0" (177 mm) Wide Rubber Track Loader at Operating Weight	4.70 PSI (0,32 Bar)
9.8" (250 mm) Wide Rubber Track Loader at Operating Weight	4.09 PSI (0,28 Bar)

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SAFETY INSTRUCTIONS

Safety Alert Symbol

This symbol with a warning statement means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.

WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2411-1001

WARNING

Warnings on the machine and in the manuals are for your safety. Failure to obey warnings can cause injury or death.

W-2044-1285

IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the machine.

I-2019-0284

The following publications provide information on the safe use and maintenance of the Bobcat machine and attachments:

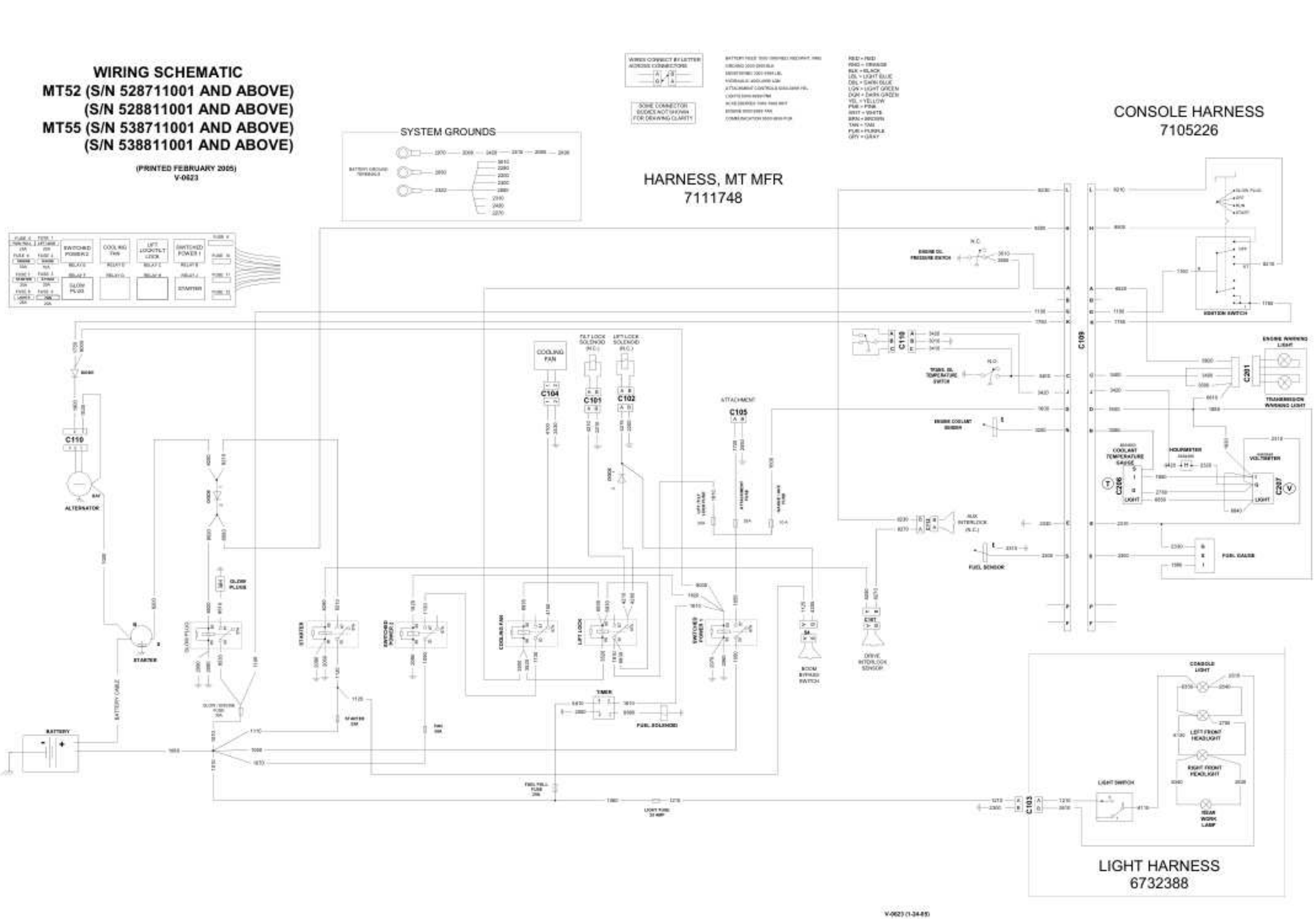
- The Delivery Report is used to assure that complete instructions have been given to the new owner and that the machine is in safe operating condition.
- The Operation & Maintenance Manual delivered with the machine or attachment contains operating information as well as routine maintenance and service procedures. It is a part of the machine and can be stored in a container provided on the machine. Replacement Operation & Maintenance Manuals can be ordered from your Bobcat dealer.
- Machine signs (decals) instruct on the safe operation and care of your Bobcat machine or attachment. The signs and their locations are shown in the Operation & Maintenance Manual. Replacement signs are available from your Bobcat dealer.
- The Service Manual and Parts Manual are available from your dealer for use by mechanics to do shop-type service and repair work.
- The Mini Loader Safety Video is available from your Bobcat dealer or at **www.training.bobcat.com** or **www.bobcat.com**.

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WIRING SCHEMATIC
MT52 (S/N 528711001 AND ABOVE)
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