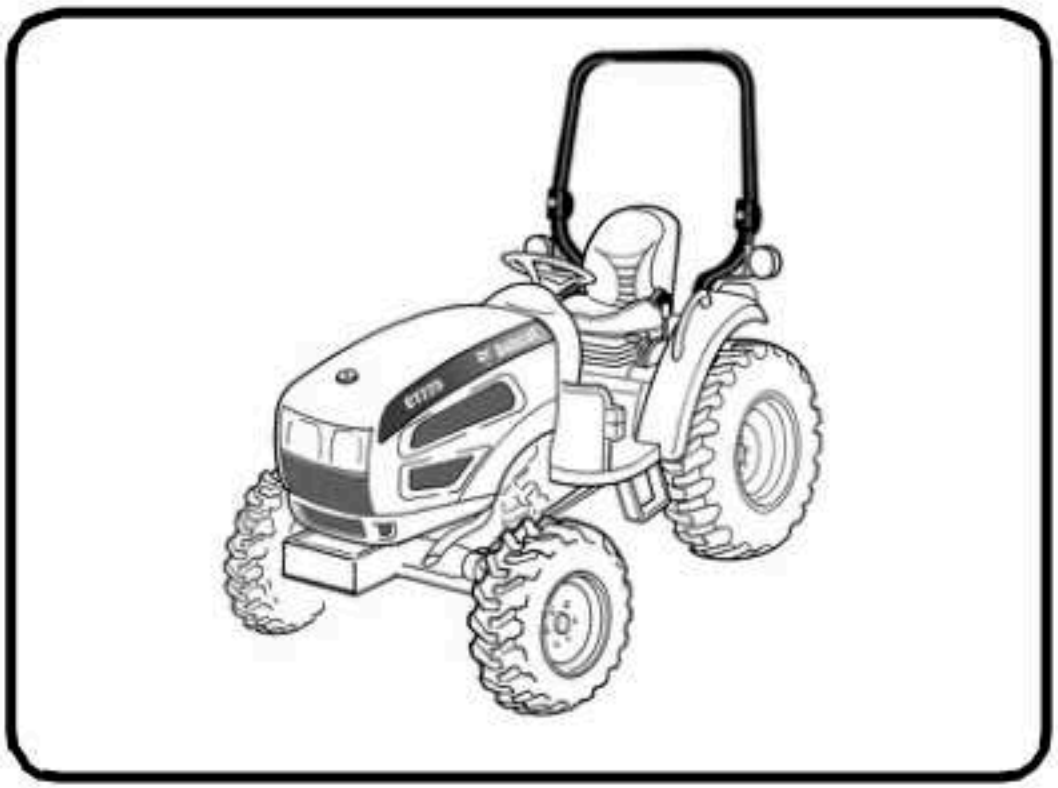
Bobcat®

Service Manual

CT225, CT230, CT235 Compact Tractor

S/N ABFJ11001 & Above
S/N ABFP11001 & Above
S/N A9JY11001 & Above



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SAFETY INTERLOCK SYSTEM (OPERATING)

Inspection And Maintenance

⚠ WARNING

AVOID INJURY OR DEATH

The Safety Interlock System must shut off the engine if the operator leaves the operator's seat unless: the parking brake is engaged, the mid-PTO lever is disengaged, and the travel control pedal is in neutral. Contact your dealer for service if the Safety Interlock System does not function properly. DO NOT MODIFY THE SYSTEM.

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The Safety Interlock System - Operating:

The engine must shut off if the operator leaves the operator's seat, unless all the following conditions are present:

1. The parking brake is engaged.
2. The mid-PTO lever (if equipped) is in the disengaged (OFF) position.
3. The travel control pedal is in the neutral position.

The compact tractor engine must SHUTOFF when the operator leaves the operator's seat **unless** the parking brake is engaged, the mid-PTO lever (if equipped) is in neutral, and the travel control pedal is in neutral.

Inspecting Procedure:

Perform this procedure on flat level ground and make sure the area is clear of bystanders.

a. Sit in the operator's seat and fasten the seat belt - Engage the parking brake - Place all controls in neutral - Move engine speed control lever to low idle position - Start the engine - Move the mid-PTO lever to the ON position (if equipped) - Unfasten the seat belt and raise off the operator's seat; **THE ENGINE MUST STOP.**

b. Sit in the operator's seat and fasten the seat belt - Engage the parking brake - Place all controls in neutral - Move engine speed control lever to low idle position - Start the engine - Unfasten the seat belt and raise off the operator's seat - Slowly press the Travel Control Pedal in the Forward direction; **THE ENGINE MUST STOP.**

c. Sit in the operator's seat and fasten the seat belt - Engage the parking brake - Place all controls in neutral - Move engine speed control lever to low idle position - Start the engine - Unfasten the seat belt and raise off the operator's seat - Slowly press the Travel Control Pedal in the Reverse direction; **THE ENGINE MUST STOP.**

d. Sit in the operator's seat and fasten the seat belt - Engage the parking brake - Place all controls in neutral - Move engine speed control lever to low idle position - Start the engine - Release the Parking Brake - Unfasten the seat belt and raise off the operator's seat; **THE ENGINE MUST STOP.**

If the engine does not shut off after performing any of the above procedures, further troubleshooting and testing must be done.

Figure 10-210-1

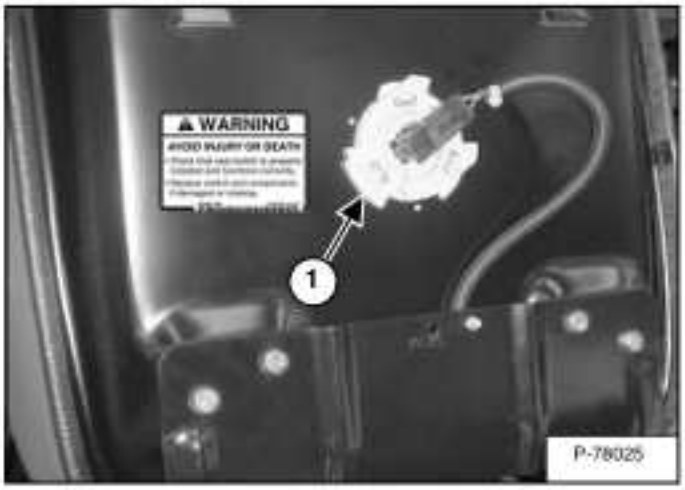
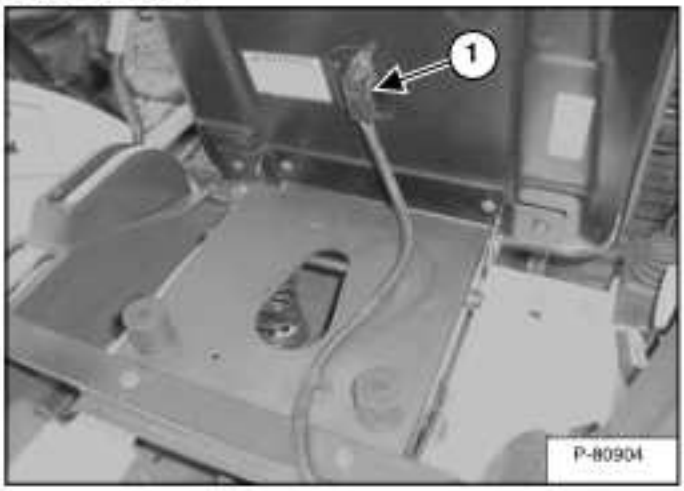


Figure 10-210-2



The seat switch (Item 1) **[Figure 10-210-1]** or **[Figure 10-210-2]** is installed in the bottom of the seat. Replace the seat switch and components if damaged or missing. See your Bobcat dealer for parts.

⚠ WARNING

AVOID INJURY OR DEATH

- **Check that seat switch is properly installed and functions correctly.**
- **Replace switch and components if damaged or missing.**

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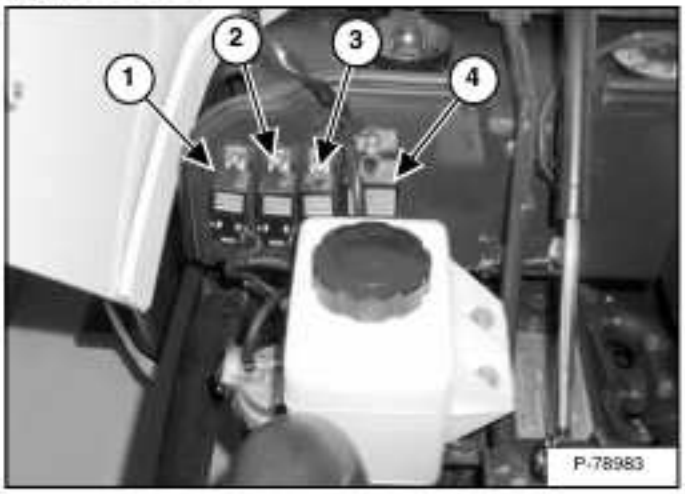
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Fuse And Relay Location - Instrument Panel

Relays

There are five relays used in the electrical circuit. The relays are located on the engine firewall as on the right side of the battery (as shown below). The flasher unit is located on the left side of the steering column below the dash.

Figure 60-10-4



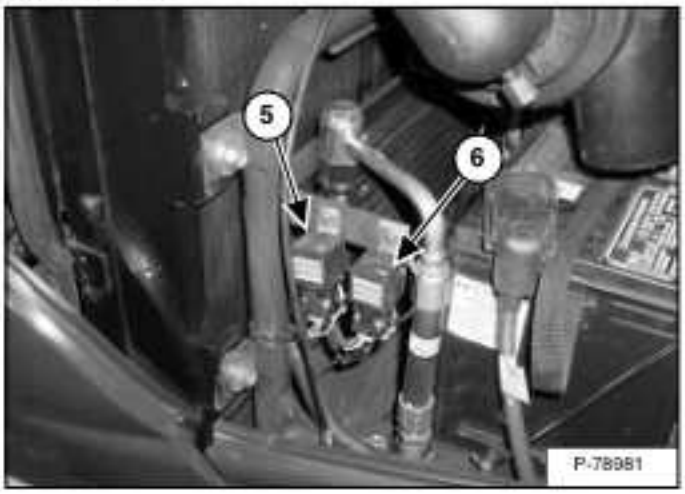
Relay (Item 1) **[Figure 60-10-4]** is for the starter relay.

Relay (Item 2) **[Figure 60-10-4]** is for the fuel pull solenoid.

Relay (Item 3) **[Figure 60-10-4]** is for the preheat relay.

Preheat controller (Item 4) **[Figure 60-10-4]** for the glow plugs.

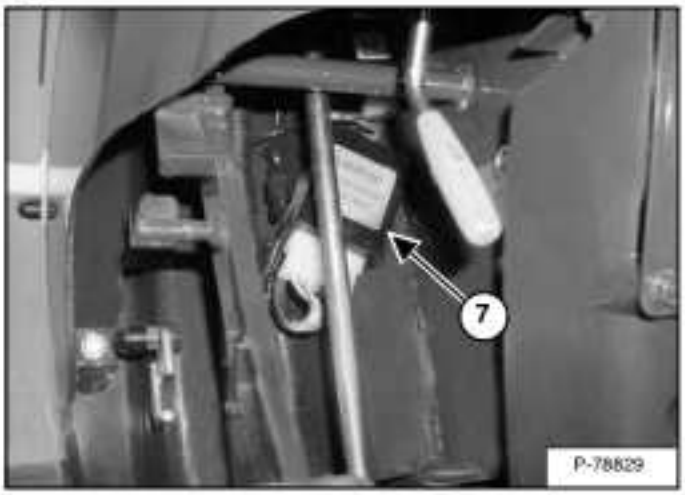
Figure 60-10-5



Relay (Item 5) **[Figure 60-10-5]** for low beam relay.

Relay (Item 6) **[Figure 60-10-5]** for high beam relay.

Figure 60-10-6



Flasher (Item 7) **[Figure 60-10-6]** for the directional signals / hazard / flashers.

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Specifications (Cont'd)

Cylinder

Item	Factory Specification	Allowable Limit
Cylinder bore inner diameter	82,000 - 82,022 mm (3.228 - 3.2292 in)	0,15 mm (0.0059 in)

Valve Springs

Item	Factory Specification	Allowable Limit
Free length	41,7 - 42,2 mm (1.6417 - 1.6614 in)	41,2 mm (1.6220 in)
Assembling load / assembling length	12.0 kgf / 35,15 mm (26.5 lb / 1.3839 in)	10.2 kgf / 35,15 mm (22.5 lb. / 1.3839 in)
Squareness	-	1,0 mm (0.039 in)

Rocker Arms

Item	Factory Specification	Allowable Limit
Rocker arm shaft O.D	0,55012 - 0,55055 mm (1.6417 - 1.6614 in)	-
Rocker arm bushing I.D	13,998 - 14,023 mm (0.55110 - 0.55209 in)	-

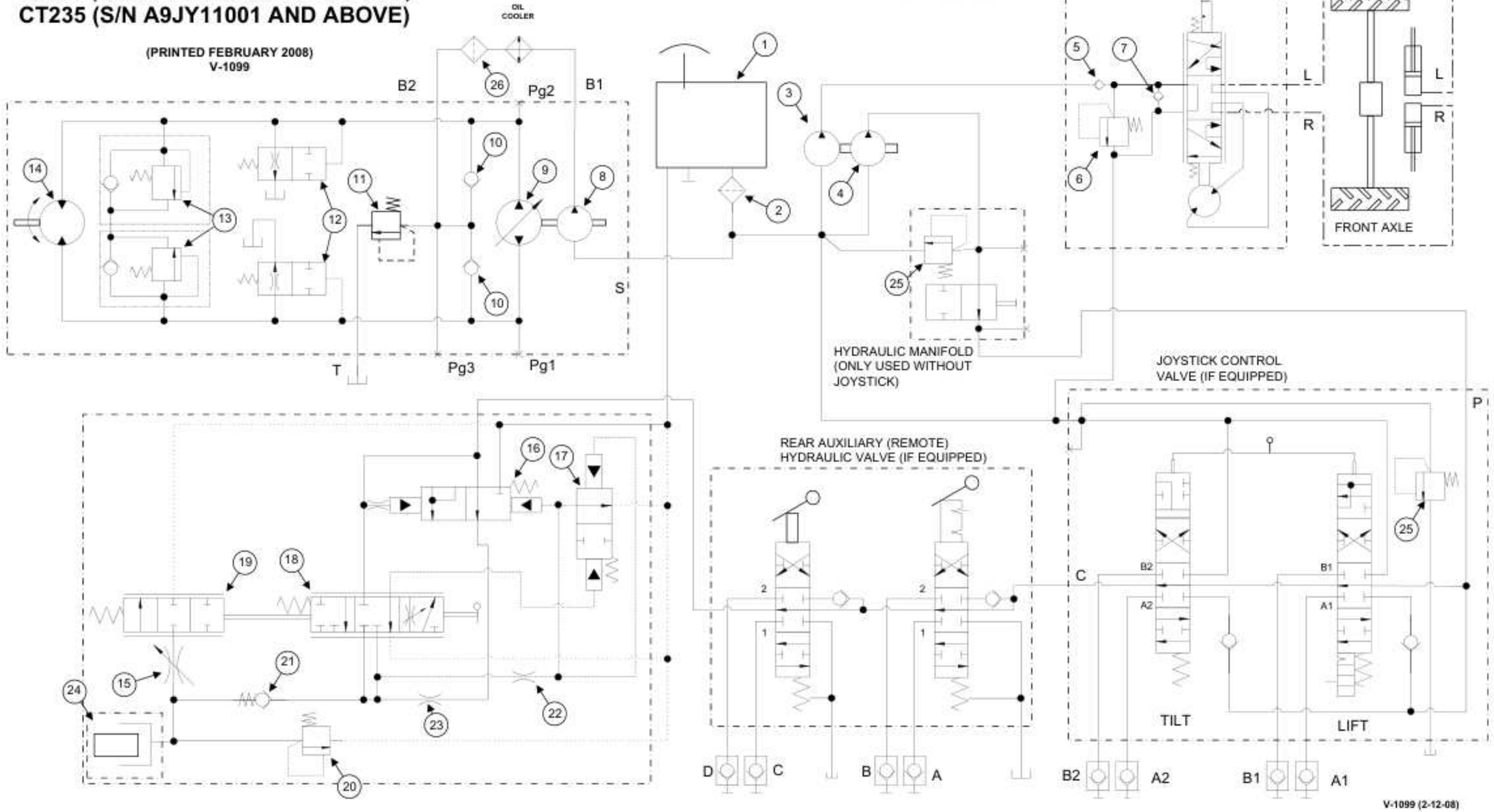
Tappet

Item	Factory Specification	Allowable Limit
Clearance between tappet and guide	0,020 - 0,062 mm (0.00079 - 0.00244 in)	0,07 mm (0.0028 in)
Tappet O.D	23,959 - 23,980 mm (0.94327 - 0.94410 in)	-
Tappet guide I.D	24,000 - 24,021 mm (0.94488 - 0.9457 in)	-

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HYDRAULIC/HYDROSTATIC SCHEMATIC
CT225 (S/N ABFJ11001 AND ABOVE)
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