

W190-4R099

EXPLODED VIEW OF THE VALVE PVG32

- 1. Valve PVPV
- 2. Valve PVM
- 3. Valve PVB
- 4. Shuttle PVBS
- 5. Valve PVES
- 6. Shuttle PVSI

- 7. Screws
- 8. Seal
- 9. Seal
- 10. Seal
- 11. Seal

ELECTRICAL SYSTEM REMOVAL

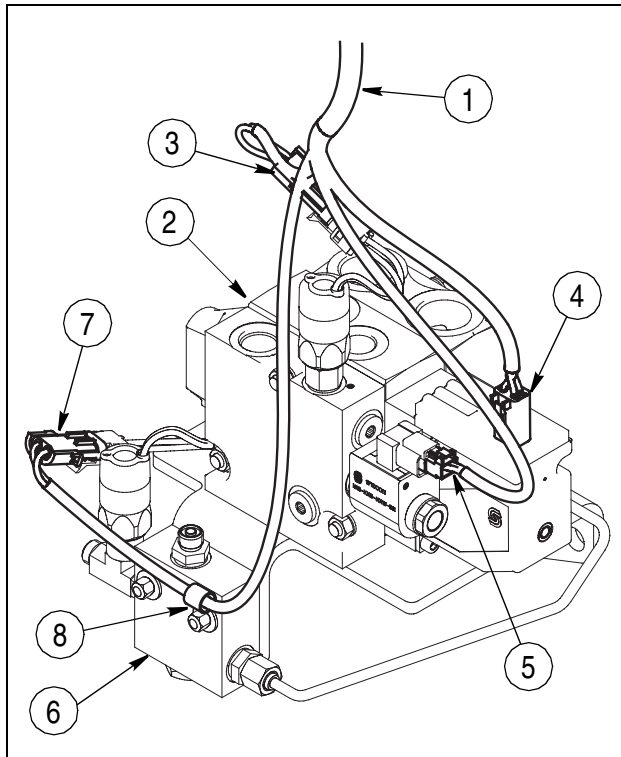
STEP 1

Park loader on level ground and lower bucket to ground. Put transmission in NEUTRAL, apply parking brake, and shut down engine. Put the master disconnect switch in the OFF position.

Remove all dirt and grease from the steering system valves and adjacent area.

IMPORTANT: Tag all connections prior to disassembly.

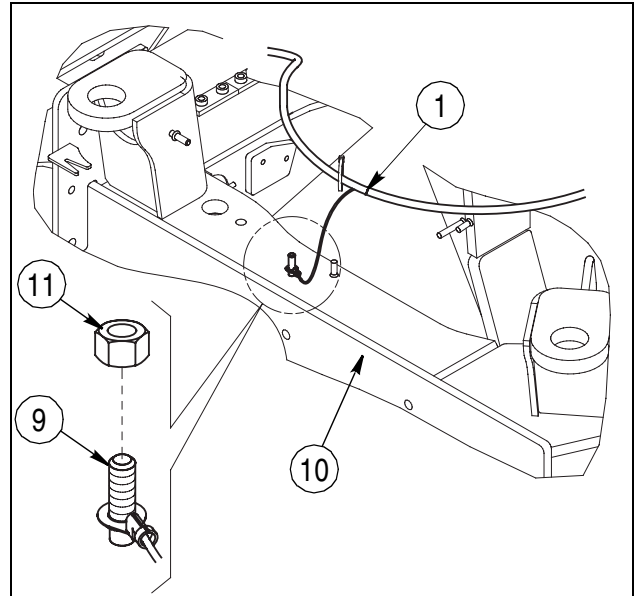
STEP 2



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Disconnect the chassis harness (1) from the valve PVG32 (2). Disconnect connector (3) from the pilot pressure switch, connector (4) from the proportional valve, connector (5) from the solenoid valve. From the PVFC valve (6) disconnect connector (7) and remove strap (8).

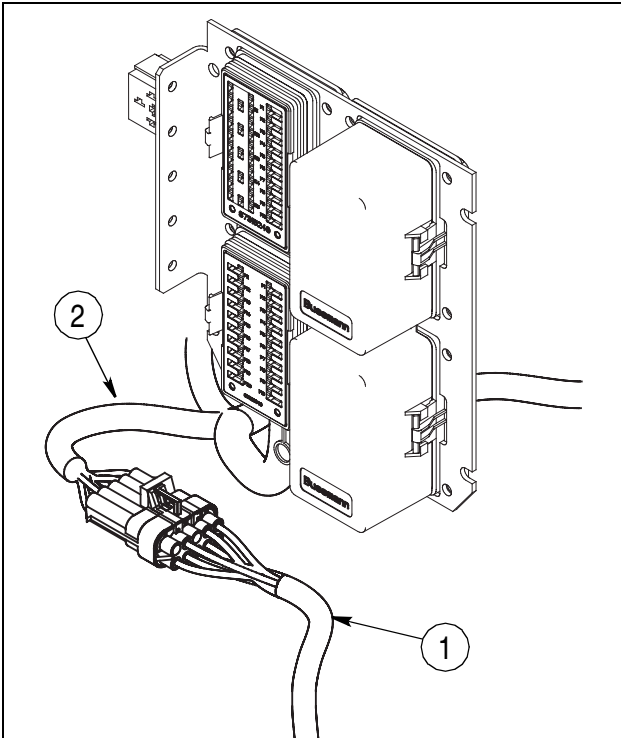
STEP 3



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Remove nut (11) from the stud (9) to release the chassis grounding cable (1).

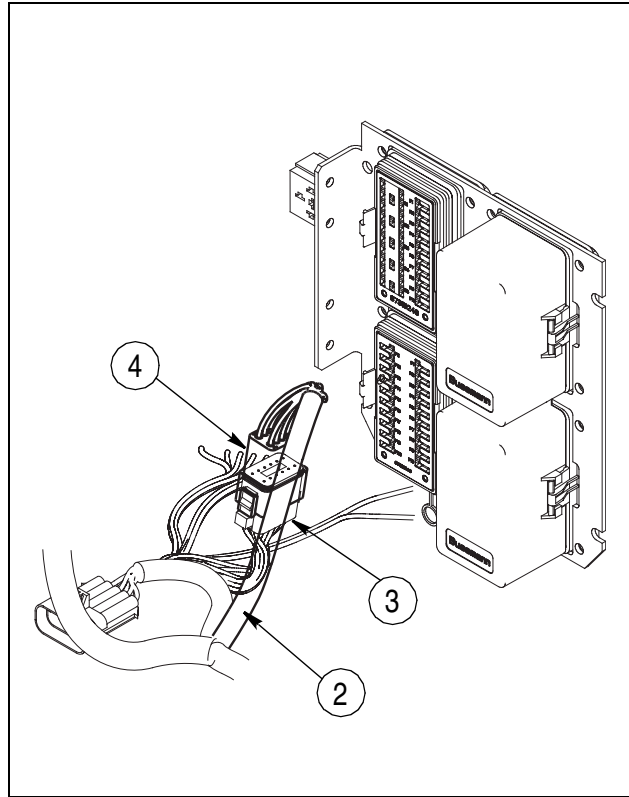
STEP 4



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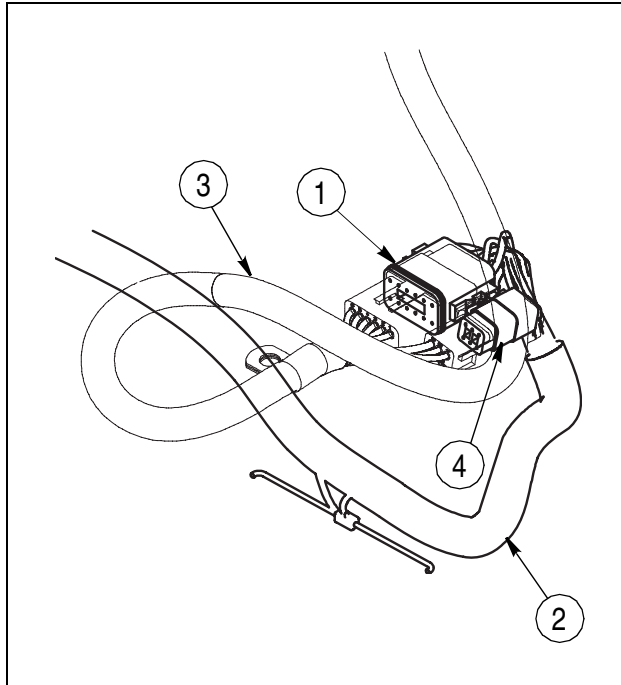
Open the access panel on the right-hand side of the cab to access the fuse and relay compartment. Disconnect the connector from the chassis harness (1) from the joystick cable (2). Remove the chassis frame cable (1).

STEP 5



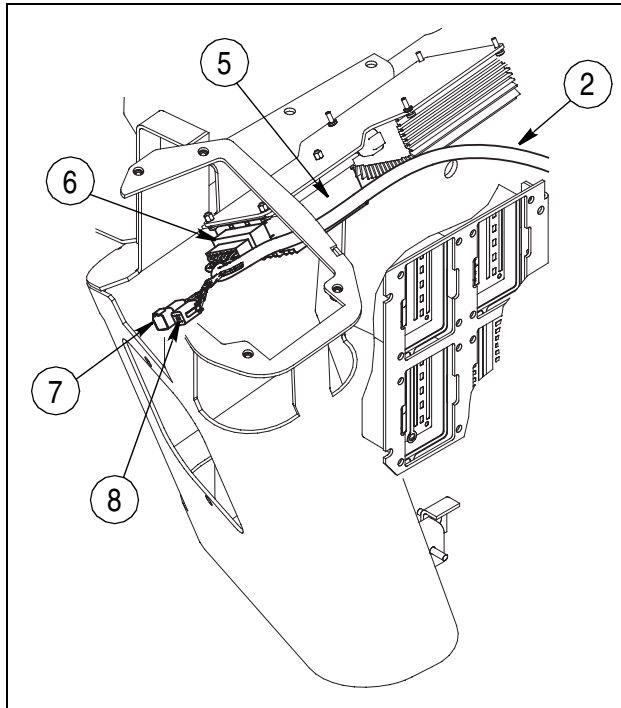
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Disconnect the joystick harness (2) from the cab wiring harness (3).

STEP 6

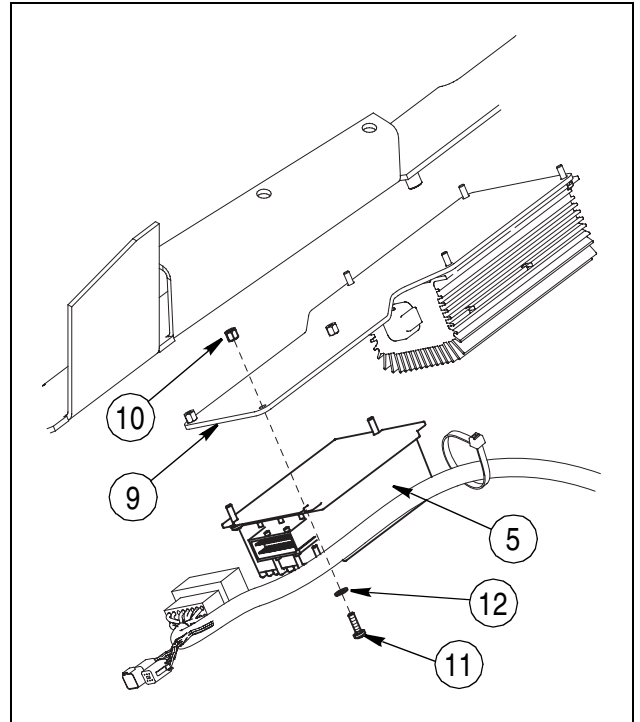
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Disconnect the connector (1) from the joystick harness (2). Disconnect the armrest harness (3) from the six-position connector (4).

STEP 7

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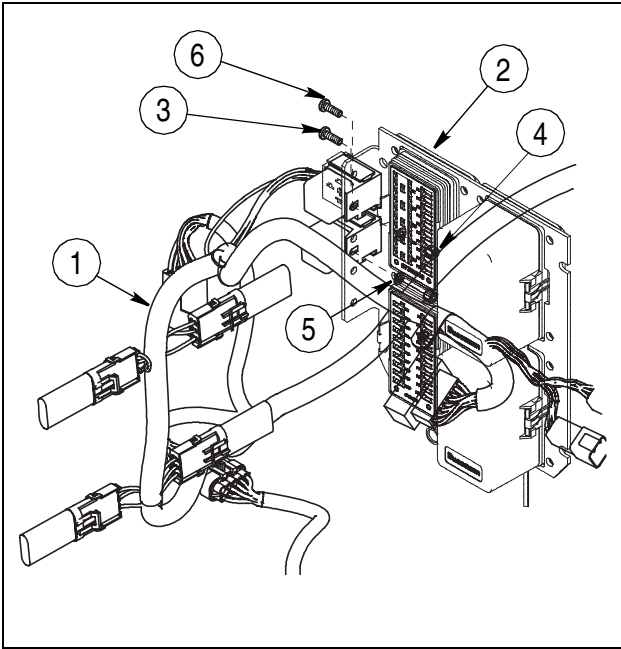
Disconnect the joystick cable (2) from the steering control module (5) by detaching the sixteen-position connector (6). Disconnect connector (7) from the transmission switch and the cab harness connector (8).

STEP 8

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Remove the steering control module (5) from the supporting plate (9) by removing the nuts (10, qty. 3), cap screws (11) and washers (12).

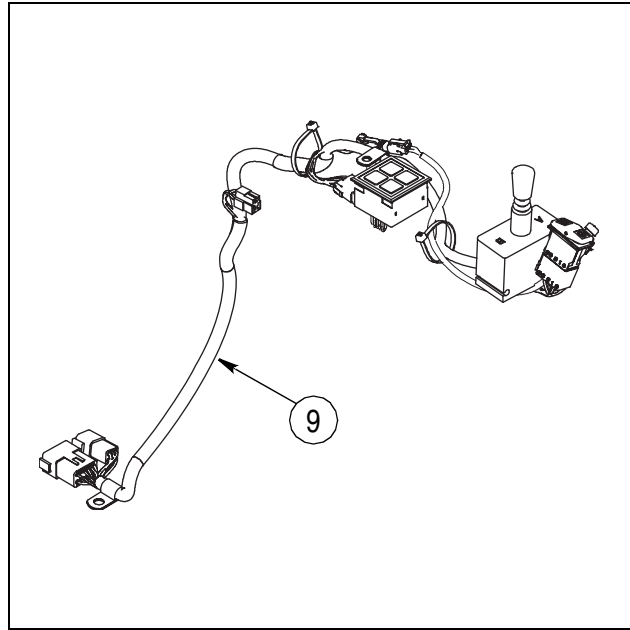
STEP 9



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Detach the joystick harness (1) from the mounting brackets on the fuse and relay panel (2). Remove the two connectors (3) by removing the two nuts (4), washers (5) and cap screws (6). Remove the joystick harness (1).

STEP 10



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To remove the armrest harness (9), see JOYSTICK STEERING ARMREST in this section.

1. Close the shutoff valve A by turning it all the way to the left (counterclockwise), refer to the illustration on page 7.
2. Open valve B by turning it out all the way to the left (counterclockwise).
3. Close valve C by turning it all the way to the right (clockwise).
4. Close the gauge valve D by turning it all the way to the right (clockwise).
5. Connect the charging hose to the nitrogen supply tank.
6. SLOWLY turn valve A clockwise while watching the high pressure gauge. Stop turning valve A when the needle on the gauge reaches 31 bar (450 psi).

NOTE: *If the needle goes over the needed pressure, quickly open and close valve D and check the pressure setting again.*

The charging kit is now ready to be installed on the accumulator.

7. Remove the two cap screws (9) and the protection bracket (11) from the body (1) on the accumulator, refer to the illustration on pages 6.
8. Remove the valve cap from the pressure valve (12) on the accumulator.
9. Back off the needle valve on the accumulator end of the charging hose by turning it counterclockwise to the maximum amount. This prevents nitrogen from escaping from the accumulator when the charging hose is attached to the accumulator gas charging valve.
10. Install the charging hose fitting onto the accumulator pressure valve (12).
11. Tighten the needle valve by turning it clockwise. Slowly open the gauge valve D and observe the reading on the gauge. This reading is the nitrogen pressure level inside the accumulator.

12. Open the shutoff valve A on the nitrogen supply tank. While observing the pressure on the gauge, slightly open the needle valve on the accumulator charge hose. By regulating the needle valve, fill the accumulator to pressure according to temperature chart below. Close the needle valve. Close the shutoff valve A on the nitrogen supply tank.

TEMPERATURE		CHARGE PRESSURE	
10° C	50° F	1606 KPA	233 PSI
13° C	55° F	1634 KPA	237 PSI
16° C	60° F	1669 KPA	242 PSI
18° C	65° F	1696 KPA	246 PSI
21° C	70° F	1724 KPA	250 PSI
24° C	75° F	1751 KPA	254 PSI
27° C	80° F	1779 KPA	258 PSI
29° C	85° F	1813 KPA	263 PSI
32° C	90° F	1841 KPA	267 PSI
35° C	95° F	1868 KPA	271 PSI
38° C	100° F	1896 KPA	275 PSI

TEMPERATURE/CHARGE PRESSURE RIDE CONTROL ACCUMULATOR

13. Close valve B by turning to the right (clockwise). After a few minutes, check the accumulator for leakage.
14. Back off the needle valve on the accumulator end of the charging hose by turning it counterclockwise the maximum amount. This will prevent nitrogen from escaping from the accumulator as the hose is removed. Remove the charging hose from the accumulator pressure valve (12).
15. Install the valve cap onto the pressure valve (12) on the accumulator.
16. Install the protection bracket (11) over the pressure valve (12) and secure it with cap screws (9).
17. Remove the charging hose from the nitrogen supply tank.