SKID STEER LOADER

SERVICE MANUAL

HSL800T

HYUNDAI

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CONTROL VALVE 1.3

Testing and Adjusting the Relief Valve Pressure

Hoses and gauges required for this test must be capable of withstanding 5000 PSI (207 Bar) continuous pressure, and hydraulic flow meter capable of measuring 30 gallons per minute. (113 LPM) (fig. C3432) **This test also checks the status of the gear pump capacities.** Pressure fluctuations may be caused by restricted oil flow through the relief valve. The relief valve filter may need serviced as outlined in the control valve disassembly section on pages 1-9 through 1-13.

1 Install the flow meter / pressure tester to the auxiliary hydraulic quick couplers. The female coupler attached to the loader provides the power out when the auxiliary control is engaged. (fig. C3646) Connect the flow meter and pressure gauge inlet side to match the power out of the female auxiliary coupler to prevent meter and gauge damage. Be sure to connect a return line to the male auxiliary hydraulic quick coupler. (fig. C3433)

2 Start the engine and engage the auxiliary hydraulic system. Increase the engine speed to full operating RPM. (See Section 7 for checking and adjusting engine speed to 2800 RPM plus or minus 25 RPM)

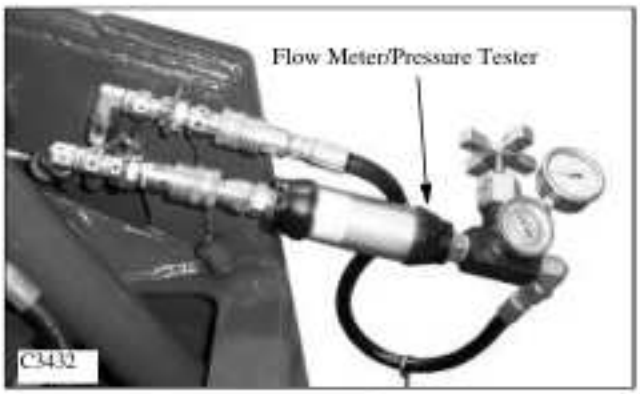
3 Turn the flow control valve on the flow meter to restrict the oil flow down to 2 GPM. (7.5 LPM) As you are turning the flow control valve, watch the pressure gauge and make sure it does not go over 3000 PSI.(207 Bar) Stop further adjustment immediately if the reading goes over this setting. Shut off the auxiliary hydraulic system and shut off the engine. Move to step 6 to make initial setting.

CAUTION

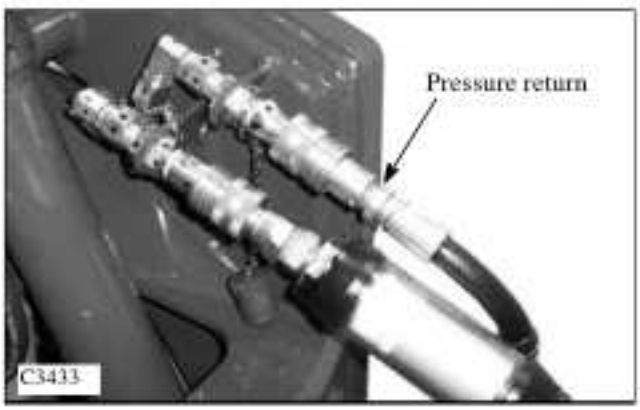
Adjusting the relief valve setting too high may cause damage to the gear pump.

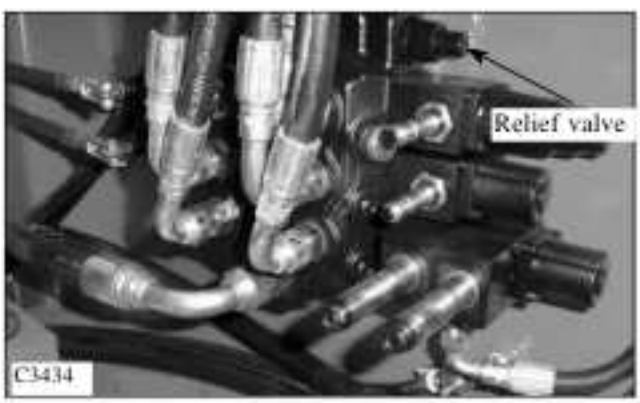
WARNING

To prevent personal injury or damage to the loader, do not adjust the relief valve while the engine is operating.



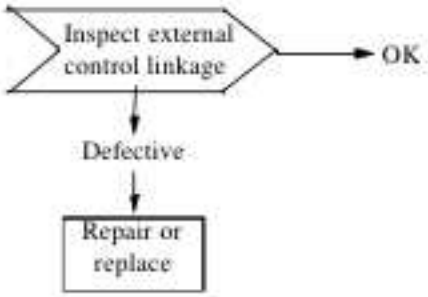




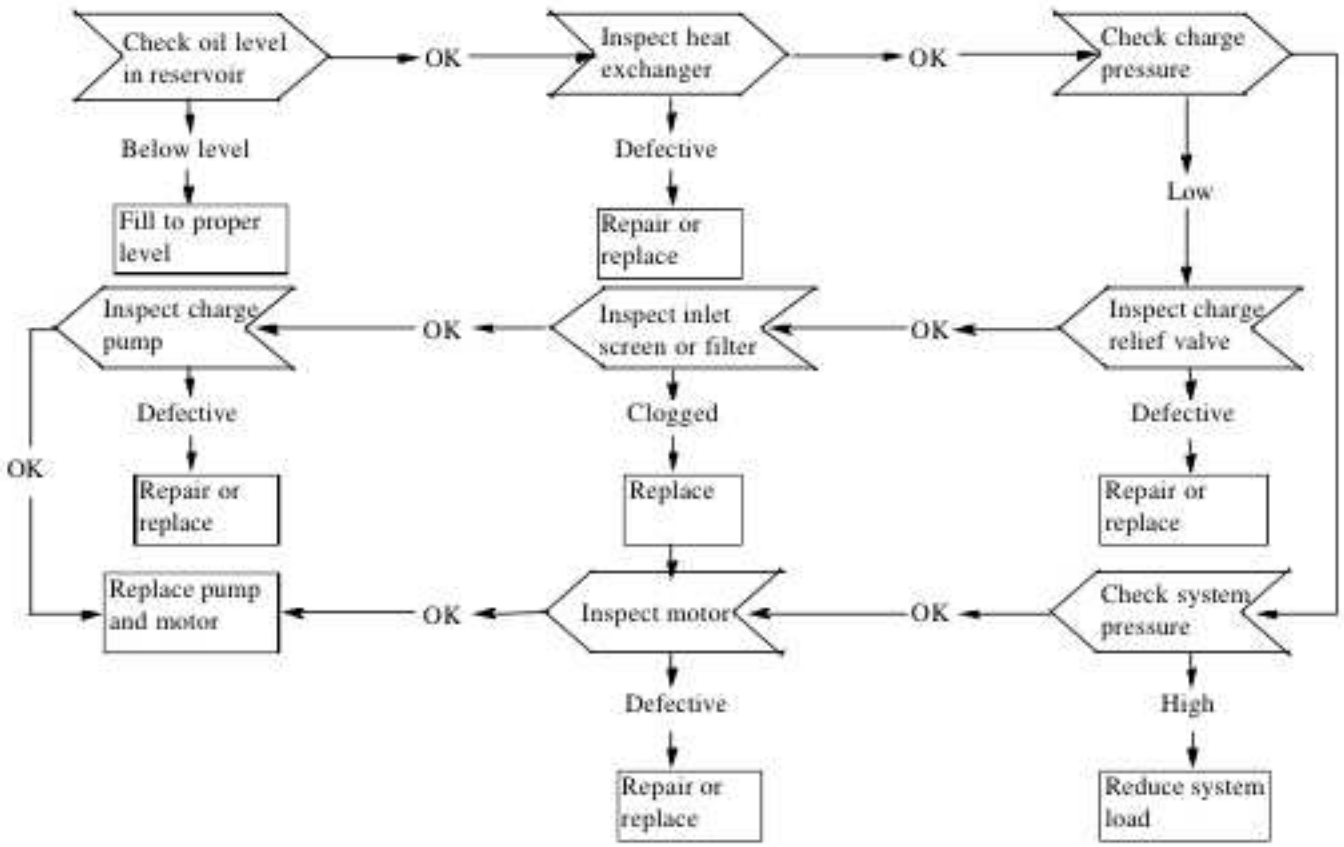


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Symptom: Neutral Difficult Or Impossible To Find



Symptom: System Operating Hot



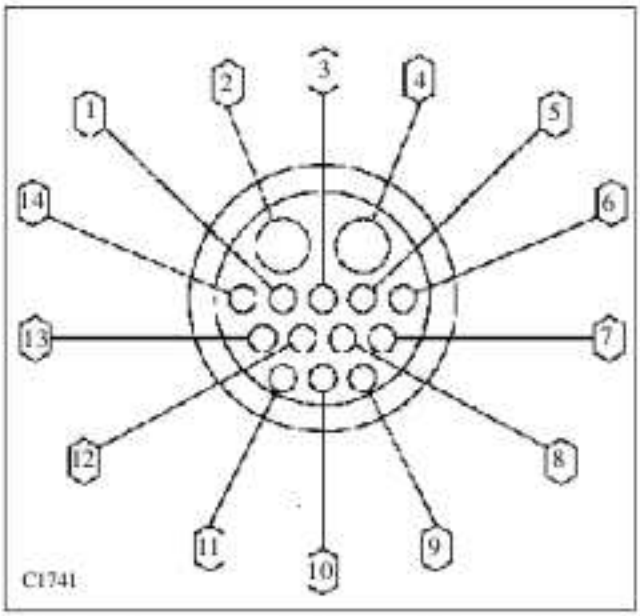
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WIRING SCHEMATIC 5.2

ROPS Harness Connector

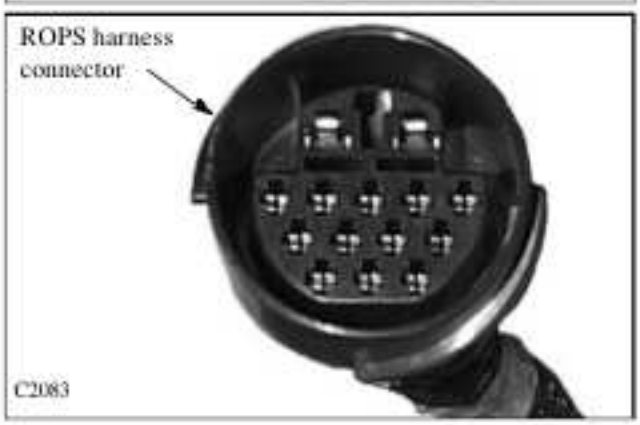
Diagram C1741 Legend. Shown is the wire color and function of each pin terminal in the connector plug.

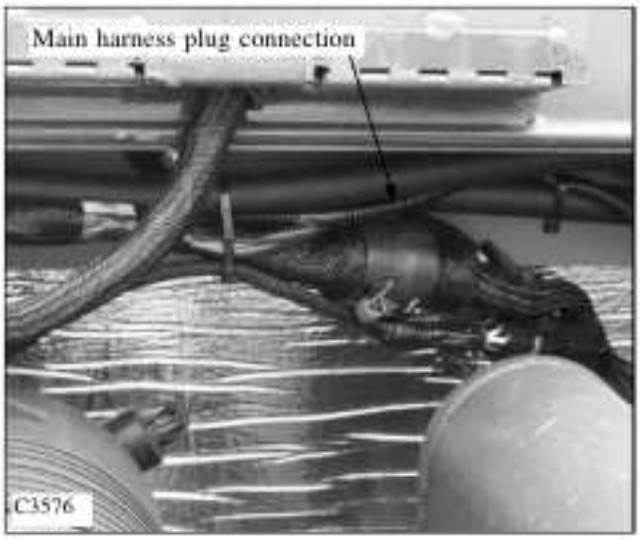
PIN	WIRE COLOR	FUNCTION
1	Purple	Eng. oil press. indicator
2	White	Ignition (30)
3	Red / Wht	Ignition (19)
4	Blk / Wht	Ignition (acc)
5	Tan	Ignition (50)
6	Grey	Seat belt indicator
7	Grey / Wht	Charge (L) indicator
8	Blue / Wht	Hyd. temp. indicator
9	Org / Blue	Fuel level (+) gauge
10	Red / Org	Headlight
11	Brn / Wht	Brake light
12	Wht / Brn	Horn
13	Pple / Wht	Coolant temp. indicator
14	Pink	Air filter indicator

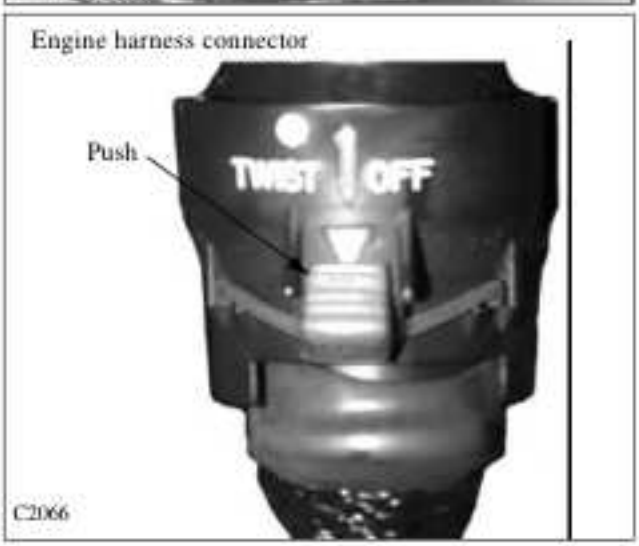


The photographs below and at right show the actual ROPS harness plug connection.
To separate the main electrical harness connection, push the locking tab in the direction of the arrow (fig. C2066) and twist the collar clockwise to release.









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