

HYDRAULIC SYSTEM TROUBLESHOOTING

When troubleshooting an electro-hydraulic system problem check for electrical power to the solenoid coils as they are activated. This will isolate hydraulic system problems from electrical problems. Use a high impedance multimeter for any electrical checks. Refer to Sections 4001 and 10002.

Before making any hydraulic system tests make sure that the hydraulic oil reservoir is full, hydraulic filters are clean and the hydraulic oil temperature is above 49°C.

Steering System Problems

PROBLEM: Excessive effort required for steering

POSSIBLE CAUSE

- A. Mechanical interference in steering mechanism.
- B. Steering relief valve adjustment.
- C. Steering hydraulic pump worn.
- D. Cylinder piston moved on ram (2WD only).

PROCEDURE

- A. Inspect and repair as necessary.
- B. Carry out Test 3 - Steering Relief Valve Pressure and Cylinder Internal Leakage.
- C. Carry out Test 4 - Steering Hydraulic Pump Efficiency.
- D. Inspect and repair as necessary.

PROBLEM: No power steering

POSSIBLE CAUSE

- A. Steering relief valve adjustment.
- B. Cylinder piston moved on ram (2WD only).

PROCEDURE

- A. Carry out Test 3 - Steering Relief Valve Pressure and Cylinder Internal Leakage.
- B. Inspect and repair as necessary.

PROBLEM: Excessive turns lock to lock

POSSIBLE CAUSE

- A. Steering cylinder internal leakage.
- B. Steering hand pump faulty.

PROCEDURE

- A. Carry out Test 3 - Steering Relief Valve Pressure and Cylinder Internal Leakage.
- B. Refer to Steering Hand Pump, Section 5001.

PROBLEM: Intermittent Steering

POSSIBLE CAUSE

- A. Steering cylinder internal leakage.
- B. Steering hand pump faulty.

PROCEDURE

- A. Inspect and repair as necessary.
- B. Refer to Steering Hand Pump, Section 5001.