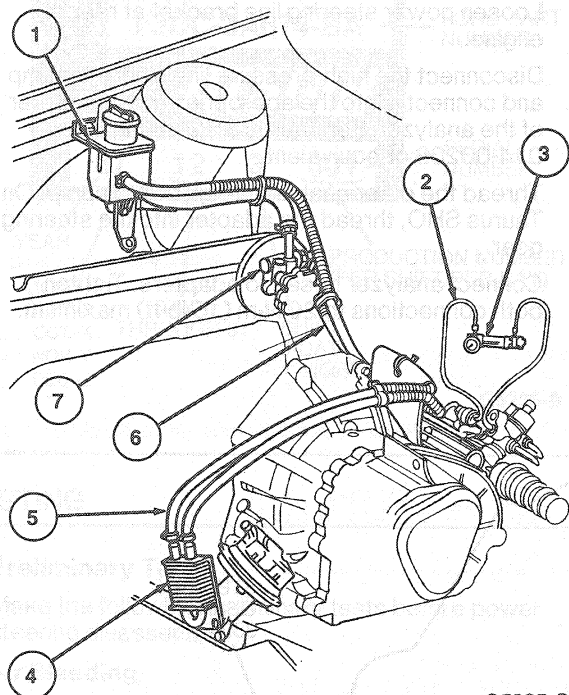


TESTING (Continued)

Taurus SHO



G5225-C

Item	Part Number	Description
1	3R700	Power Steering Reservoir
2	—	Pressure Hose From Pump
3	014-00207	Rotunda Power Steering System Analyzer
4	3D746	Cooler Assy
5	3F731	Hose Assy
6	3A719	Hose Assy
7	3A674	Power Steering Pump Assy

5. Add power steering fluid to the pump, on Taurus/Sable or reservoir on Taurus SHO if required. Start the engine and run it for approximately two minutes at idle.
6. Record the following:
 - a. Flow: liters/min (gallons/min) at $78^{\circ} \pm 2^{\circ}\text{C}$ ($172^{\circ} \pm 5^{\circ}\text{F}$).
 - b. Pressure: kPa (psi) at $78^{\circ} \pm 2^{\circ}\text{C}$ ($172^{\circ} \pm 5^{\circ}\text{F}$) at idle with the gate valve fully open.
 - If flow is below 5.7 liters/min (1.5 gallons/min), Taurus/Sable, or 8.3 liters/min (2.2 gallons/min) Taurus SHO, the pump may require service. However, at this point, continue the diagnosis. Check flow and relief pressure against the model pump being tested.
 - If pressure is above 1034 kPa (150 psi), check hoses for restrictions.

7. Partially close the gate valve to build up 5100 kPa (740 psi). Observe and record flow, liters/min (gallons/min) at $78^{\circ} \pm 2^{\circ}\text{C}$ ($172^{\circ} \pm 5^{\circ}\text{F}$).

If flow drops to a level lower than the value, disassemble the pump and replace the cam pack. If the pressure plates are cracked or worn, replace them. Continue with diagnosis.

On Taurus SHO, if flow drops to a level lower than 3.4 liters/min (0.9 gallons/min) replace pump.

8. Completely close and partially open gate valve three times. (Do not allow valve to remain closed for more than five seconds.) Observe and record pressure, kPa (psi).

Refer to the chart for pressure specification for the applicable pump model and vehicle application. If pressure recorded is lower than minimum specification, replace flow control valve in the pump used on Taurus/Sable. On Taurus SHO, replace pump.

If the pressure recorded is above maximum specification listed, the flow control valve in the pump should be removed and cleaned or replaced on Taurus/Sable. On Taurus SHO, the pump should be removed and cleaned or replaced.

9. Increase engine speed from idle to approximately 1500 rpm. Observe and record flow, liters/min (gallons/min).

If flow exceeds the maximum free flow specified, the flow control valve in the pump on Taurus/Sable should be removed and cleaned or replaced. On Taurus SHO, the pump should be removed and cleaned or replaced.

10. Check idle speed, and set if necessary. With the engine at idle, turn (or have an assistant turn) steering wheel to the left and right stops. Record pressure and flow at stops.

Pressure developed at both stops should be nearly the same as maximum pump output pressure.

At the same time, flow should drop below 1.9 liters/min (0.5 gallon/min). If the pressure does not reach maximum output or the flow does not drop below 1.9 liters/min (0.5 gallon/min), excessive internal leakage is occurring. Remove and disassemble steering gear. Replace damaged or broken. Pay particular attention to rack piston and valve seals for damage.

11. Turn (or have an assistant turn) steering wheel slightly in both directions, and release quickly while watching the pressure gauge. The needle should move from the normal back pressure reading and snap back as the wheel is released. If it comes back slowly or sticks, the rotary valve in steering gear is sticking or the column is binding. Ensure that the column is not binding before replacing the rotary valve.

NOTE: If concern still exists, check ball joints and linkage. Refer to Diagnosis.