

DATSUN POWER STEERING

810

DESCRIPTION

Power steering is composed of power steering pump and steering gear. The pump has an integral oil reservoir and is engine driven. The steering gear incorporates a control valve and power cylinder which is pressure operated from the power steering pump by flexible lines.

GENERAL SERVICE

HYDRAULIC SYSTEM LUBRICANT

Capacity – 1½ qts.

Type – ATF Type DEXRON

BELT TENSION ADJUSTMENT

Apply thumb pressure of 22 lbs. midway between idler pulley and power steering pump pulley. Deflection should be, 0.31-0.47" (8-12 mm).

HYDRAULIC SYSTEM PRESSURE CHECK

1) Disconnect pressure line at pump and connect pressure gauge and shut off valve. Check fluid level, open shut off valve and run engine for about five seconds. Check fluid level and restart engine.

2) Turn steering wheel from lock-to-lock several times to expel air from system. Slowly close shut off valve. Pressure should be 953-1123 psi at idle.

3) If pressure is below specifications the pump is faulty. If pressure is above specifications the pressure relief valve in pump is faulty.

HYDRAULIC SYSTEM BLEEDING

Check fluid level in reservoir, raise and support front of vehicle. With engine not running, turn steering wheel from lock-to-lock several times. Check fluid level, start engine and turn steering wheel from lock-to-lock several times. If system is not bled turn steering wheel to left lock and open bleeder screw to expel remaining air.

REMOVAL & INSTALLATION

STEERING GEAR

Removal – 1) Remove air cleaner, remove bolt from universal joint to worm shaft. Disconnect fluid lines and block off. Remove nut and washer from steering gear arm.

2) Using steering gear arm puller ST29020001, remove arm from sector shaft. Remove mounting bolts from gear housing and remove housing from vehicle.

Installation – To install reverse removal procedure and note the following: Align groove in worm shaft with bolt hole in universal joint and pass bolt through undercut section of worm shaft.

STEERING PUMP

Removal – Disconnect fluid lines at pump and block off fittings. Remove pump mounting bolts and remove drive belt from pulley. Remove pump from vehicle.

Installation – To install reverse removal procedure.

OVERHAUL

NOTE – Manufacturer recommends replacement of power steering pump and steering gear if damaged. Do not overhaul.

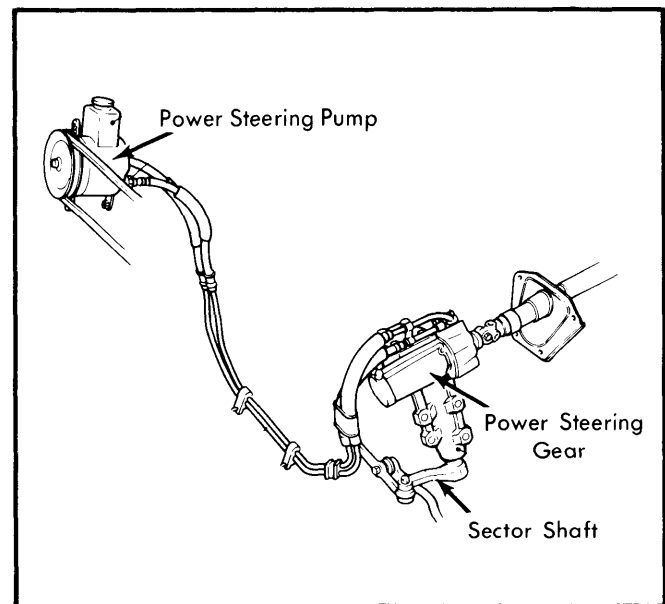


Fig. 1 Datsun Power Steering Components

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (mkg)
Universal Joint to Worm Shaft Bolt	24-28 (3.3-3.9)
Steering Gear Arm Lock Nut	94-108 (13-15)
Pump Bleeder Screw	5-7 (0.7-0.9)
Pump Mounting Bolts	14-19 (1.9-2.6)