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VEHICLE APPLICATION

Taurus / Sable.

DESCRIPTION

Steering Gear

The power steering gear is a 16:1 constant ratio power rack-and-pinion design for all vehicles except Taurus LX and Sable.

The gear housing and valve housing are combined into a one-piece aluminum die casting. The gear design incorporates quick connect fittings for the pressure and return lines that allow the lines to swivel; this is normal and does not indicate loose fittings. If the fittings leak, check to ensure they are tightened to 14-20 N-m (10-15 lb-ft). Do not overtighten. If the leak is not corrected, replace the fitting seals.

The gear is a hydraulic-mechanical unit, which uses an integral piston and rack design to provide power-assisted vehicle steering control. Internal valving directs pump flow and controls pressure, as required, to reduce steering effort during operation. The unit contains a rotary hydraulic fluid control valve integrated to the input shaft and a boost cylinder integrated with the rack.

NOTE: The power steering gear used on the Taurus SHO utilizes travel restrictors mounted inboard of the ball joint housings. The restrictors limit wheel travel to prevent the tires from hitting the wheel housing.