■ POWER STEERING

1. General

The power steering gear box has been made more compact and lighter through the adoption of fewer oil seals and the smaller power piston. The steering response has also been improved through the use of the 2-stage power assist characteristics.

2. Power Steering Gear Box

The following structural modifications have been made to provide a smaller and lighter power steering gear box:

No.	Component	Modification
①	Preload Assist Mechanism	A preload assist mechanism has been added to constantly maintain proper load.
②	Control Valve	An externally-mounted control valve has been adopted to provide various characteristics.
③	Worm Sleeve	The worm sleeve has been discontinued, and while the piston diameter has been decreased, its pressure surface area has been increased to produce a smaller size but a higher output unit.
④	Worm Shaft	The worm shaft has been made shorter, smaller, and lighter in weight.
⑤	Sector Shaft	Decreasing the number of teeth from 5 to 3 has made the shaft lighter, and at the same time, enhanced the shaft rigidity through a modification of its pressure angle from 7.5° to 4°. Further, the sector seal has been changed from the O-ring to a cup seal to reduce friction.

