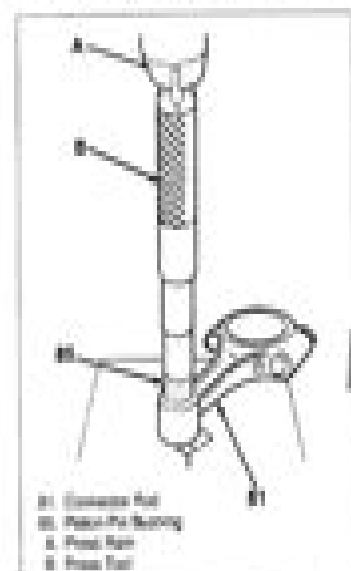


PISTON PIN BUSHING REPLACEMENT

Figure 62 and 63

1. Fully support the connecting rod upper end in a press.
2. Press out the old bushing, using a suitable press tool (figure 62).
3. Press the new bushing into place, using the press and press tool (figure 63). Be sure the oil holes in the bushing and connecting rod align.
4. Fit up the new bushing to the piston pin, using a pin nose grinder (figure 63).



61. Connecting Rod
62. Press the bushing
63. Press Pin

Figure 62: Removing or Installing the Piston Pin Bushing



Figure 63: Pressing the Connecting Rod Piston Pin Bushing

VIBRATION DAMPER REPLACEMENT

Remove or Disconnect (Figure 71)

1. Battery ground cables.
2. Tension strap for fan shroud.
3. Cooling fan (S) (figure 4, 500, 600).
4. Loosen the generator adjusting plate bolt and remove the drive belts.
5. Loosen the A/C compressor drive belt tensioner and remove the drive belt. Refer to A/C CONDITIONING (SFC, 18).
6. Damper bolts (65).
7. Vibration damper (66).



Figure 71: Crankshaft Damper and Pulley

Install or Connect (Figure 71)

1. Vibration damper (66).
2. Lubricate the bolt (65) threads with engine oil.
3. Bolts (65).

Tighten

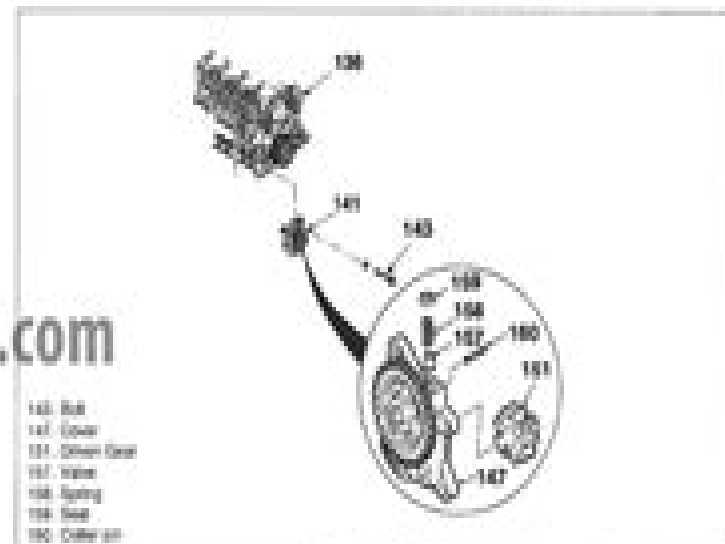
- Bolts (65) to 300 N·m (147 lb·ft).

4. Reinstall the drive belts.
5. Adjust the generator drive belts to push the belt 9 - 13 mm (0.350" - 0.512") with 66 N·m (50 lb·ft).
6. Adjust the A/C compressor drive belt tensioner to push the belt 14 - 20 mm (0.550" - 0.787") with 66 N·m (50 lb·ft).
7. Cooling fan (S) (figure 4, 500, 600).
8. Stay for fan shroud (figure 1, 500, 600).
9. Battery ground cables.

OIL PUMP REPLACEMENT

Remove or Disconnect (Figure 76)

1. Oil pan.
2. Power steering pump.
3. Flywheel.
4. Flywheel housing.
5. Rear oil seal stringer.
6. Oil gear set.
7. Bolts (143).
8. Oil pump (141).



143. Bolt
141. Cover
137. Drive Gear
147. Valve
136. Spring
139. Seal
140. Cover pin

Figure 76: Oil Pump

Measure (Figure 76, 77 and 78)

- Gear teeth to cover inner wall clearance as shown in figure 76. Use a feeler gauge, as shown. The clearance must not exceed 0.17 mm (0.007 in). If excessive, replace the pump assembly.
- Cover and gear end clearance, as shown in figure 77. Use a straightedge and feeler gauge, as shown. The clearance must not exceed 0.2 mm (0.0079 in). If excessive, replace the cover and gear set.

Disconnect (Figure 76)

1. Cover (141) and driven gear (137).
2. Retain valve (136, 138, 139, 140).

Clean

- All parts to solvent. Blow dry with compressed air.

Inspect (Figure 76)

- Gears (137), and cover (141) for pitting or wear.
- Retain valve (137) for wear.

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