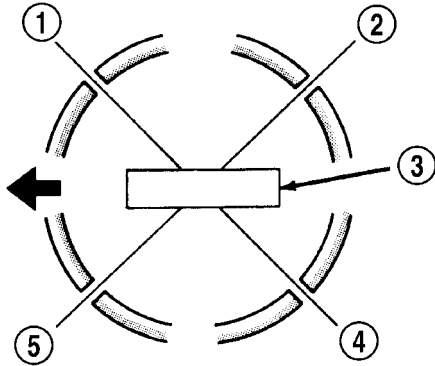


PISTON RINGS (Continued)

(5) Position piston ring end gaps as shown in (Fig. 113).

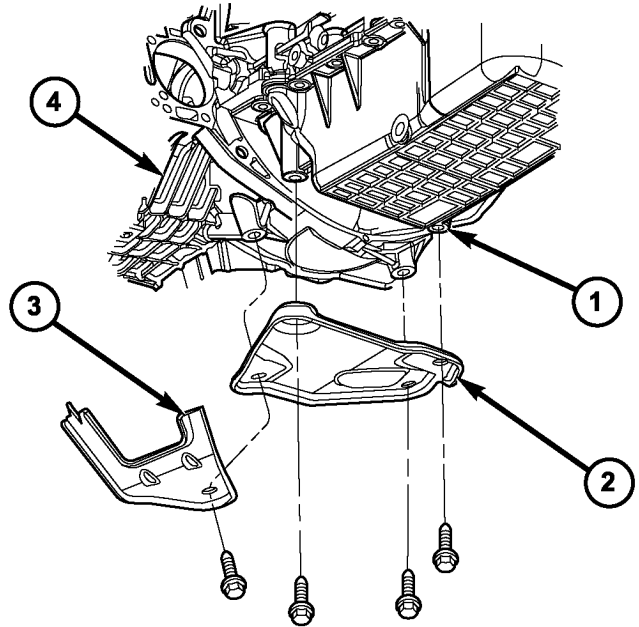
(6) Position oil ring expander gap at least 45° from the side rail gaps but **not** on the piston pin center or on the thrust direction. Staggering ring gap is important for oil control.



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**Fig. 113 PISTON RING END GAP POSITION**

- 1 - SIDE RAIL UPPER
- 2 - NO. 1 RING GAP
- 3 - PISTON PIN
- 4 - SIDE RAIL LOWER
- 5 - NO. 2 RING GAP AND SPACER EXPANDER GAP



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**Fig. 114 STRUCTURAL COVER**

- 1 - ENGINE OIL PAN
- 2 - STRUCTURAL SUPPROT
- 3 - ENGINE MOUNT BRACKET
- 4 - TRANSMISSION

STRUCTURAL COVER

REMOVAL

- (1) Raise and support the vehicle.
- (2) Remove the bolts attaching the structural collar to the oil pan and transmission housing (Fig. 114).
- (3) Remove the structural collar.

INSTALLATION

**CAUTION:** The collar must be tightened using this service procedure, as damage to collar and/or oil pan may occur.

- (1) Install structural collar (Fig. 114) using the following tightening sequence:
  - Loosely install the collar to oil pan bolts.
  - Loosely install the collar to transmission bolts.
  - Initial torque bolts to 27 N·m (20 ft. lbs.).
  - Final torque bolts to 55 N·m (40 ft. lbs.).
- (2) Lower vehicle.

VIBRATION DAMPER

REMOVAL

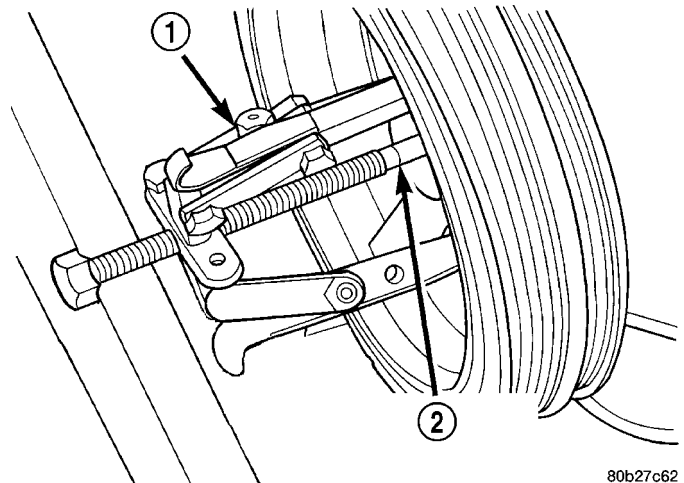
- (1) Disconnect negative battery cable.
- (2) Raise vehicle on hoist.

(3) Remove the right front wheel and accessory drive belt splash shield.

(4) Remove accessory drive belt (Refer to 7 - COOLING/ACCESSORY DRIVE/DRIVE BELTS - REMOVAL).

(5) Remove vibration damper bolt.

(6) Use Special Tool 1023 puller, and insert 9020-R, remove crankshaft damper (Fig. 115)



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**Fig. 115 Crankshaft Damper—Removal**

- 1 - SPECIAL TOOL 1023 PULLER
- 2 - SPECIAL TOOL 9020-R INSERT