

INSTALLATION

1. If removed, install the camshaft bearing saddles to the original positions. Carefully tap the bearing saddles onto the guide pins using a soft-faced hammer until fully seated.
2. Install the camshaft lower bearings and apply a generous coating of diesel engine oil to the camshaft bearings.
3. Make sure there is a bearing insert on each lower bearing saddle. The bearing inserts at the No. 7 camshaft journal have integral thrust washers.

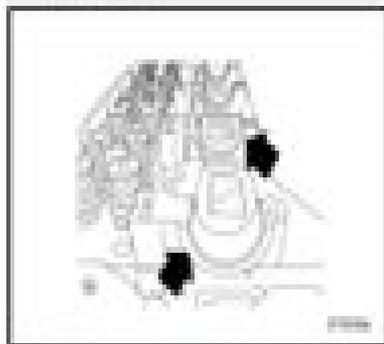


Figure 10 — Camshaft Lower Bearing Inserts

4. Clean and inspect the camshaft timing belt and compress it as follows.
5. Lower the camshaft carefully into place on the lower bearing saddles and remove the timing belt. **CAUTION:** Rotate the camshaft by hand to ensure the camshaft is not binding on the lower bearing saddles.

WARNING

The camshaft is heavy. Do NOT attempt to install the camshaft without the help of an assistant or the use of a suitable lifting device. Failure to heed this warning may result in severe personal injury and component damage.

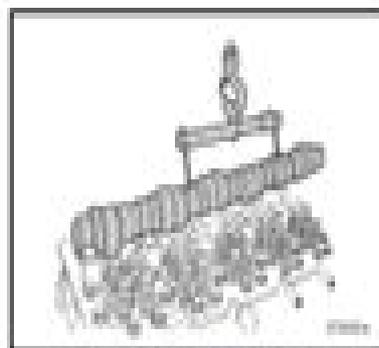


Figure 11 — Camshaft Installation

6. Install the camshaft upper bearing inserts into the camshaft bearing caps. Mark with the bearings and install the bearing caps to the respective bearing saddles. Use a soft-faced mallet to seat the bearing caps over the dress pins. Tightening of the bearing caps is done later when the intake and exhaust assembly is installed.
7. Install the bearing cap press tool (see required) at the number 7 and the number 1 bearing caps as shown in the illustration.

NOTE

The tool is used when adjusting the timing gear backlash when the intake and exhaust assembly is not installed.

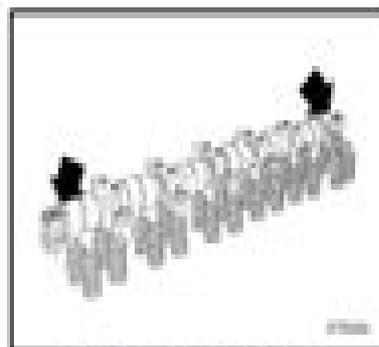


Figure 12 — Bearing Cap Press Tool

8. Make sure the camshaft TDC marking is aligned between the two marks on the camshaft timing cap.

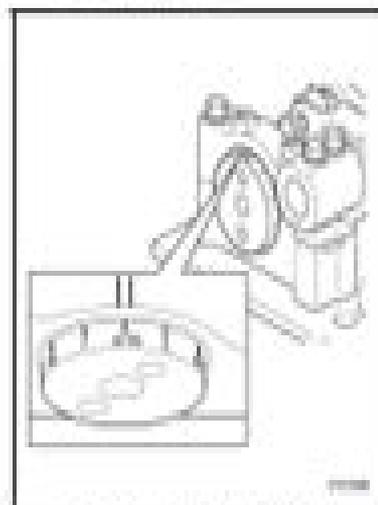


Figure 13 — Camshaft Timing Mark

9. Install the camshaft timing gear without the damper using the camshaft alignment spacer block (part of alignment kit, J 443148) with two bolts. Tighten the bolts to 45 ± 5 Nm (33 ± 4 lbf-ft).
10. Position the camshaft gear so that the reference hole in the timing gear plate is between the marks on the gear. Insert the alignment tool into the reference hole and engage the tool with the camshaft gear teeth and the slot of the timing belt. Rotate the camshaft until the marks, then remove the alignment tool.



Figure 14 — Camshaft Gear Alignment Tool

11. Check the backlash between the camshaft timing gear and the adjustable side gear. Position the dial indicator, 5000002, with magnetic stand, 5000003, against a tooth of the camshaft timing gear and rest the gear back and forth while reading the adjustable gear with the clamp from tool kit, J 443148. Note the value on the dial indicator and compare with the specification of 0.15 ± 0.02 mm (0.006 ± 0.001 inch).



Figure 15 — Camshaft Backlash Check

12. If the gear backlash must be adjusted, slightly loosen the adjustable side gear fasteners. Install a 0.1 mm (0.004 inch) feeler gauge in the loaded side of the gear and turn the camshaft in a counterclockwise direction to take up any gear lash. Tighten the adjustable side gear fasteners.

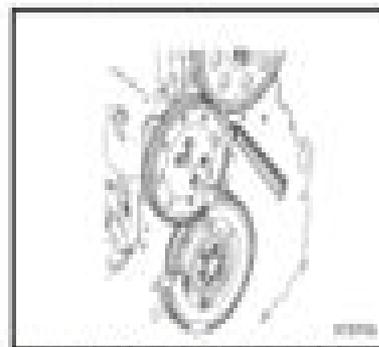


Figure 16 — Camshaft Backlash Gauge Check



Figure 17 — Camshaft Timing Gear Alignment

Mp8 Engine Timing Procedures

CH Cherryholmes



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