

IN-VEHICLE SERVICE (Continued)

Camshaft and Balance Shaft Bearings**Tools Required:**

- Camshaft Bearing Set T65L-6250-A

Removal

1. Remove engine from vehicle as outlined.
2. Remove flywheel and rear cover plate.
3. Remove camshaft as outlined, (and balance shaft if replacing balance shaft bearings).
4. Remove crankshaft and push piston to top of cylinder bore.
5. Remove camshaft bore plug from rear of cylinder block. (Remove balance shaft bore plug if replacing balance shaft bearings.)
6. Select proper size expanding collet and backup nut and assemble on expanding mandrel from Camshaft Bearing Set T65L-6250-A. With expanding collet collapsed, install collet assembly in camshaft bearing. Tighten backup nut on expanding mandrel until collet fits camshaft bearing.
7. Assemble puller screw and extension if necessary, and install on expanding mandrel. Wrap a cloth around threads of puller screw to protect front bearing or journal. Tighten pulling nut against thrust bearing and pulling plate to remove camshaft bearing. Hold a wrench on end of puller screw to prevent it from turning.

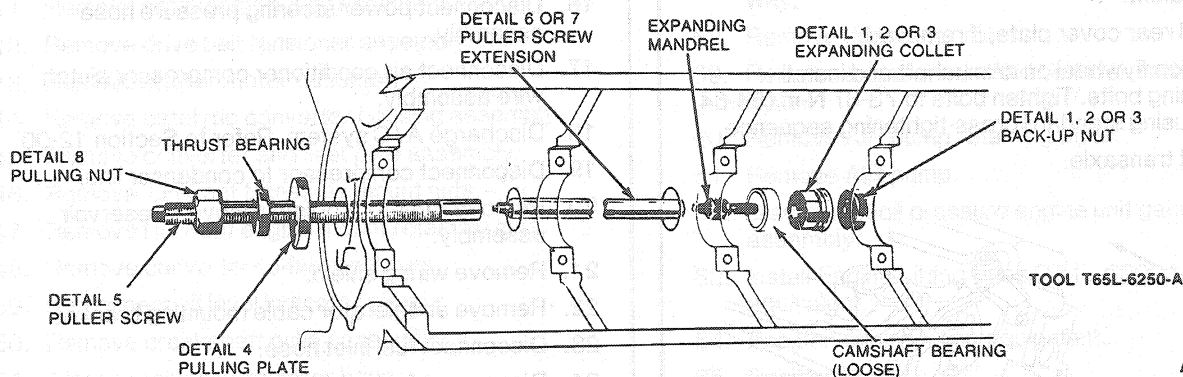
8. Repeat this procedure for each bearing. To remove front bearing, install puller screw from rear of cylinder block.

Installation

Camshaft bearings are available prefinished to size for standard journal diameters. The bearings are not interchangeable from one bore to another.

CAUTION: Failure to use correct expanding collet can cause severe bearing damage. Ensure front bearing is installed specified distance below front face of cylinder block.

1. Position new bearings at bearing bores with oil holes aligned with holes in block. Press them in place using Camshaft Bearing Set T65L-6250-A. Center pulling plate and puller screw to avoid damage to bearing.
2. Install camshaft bore plug as outlined.
3. Install crankshaft as outlined.
4. Install camshaft as outlined.
5. Install rear cover plate and flywheel as outlined.
6. Install engine in vehicle as outlined.

**Balance Shaft and Camshaft Rear Bearing Bore Plug****Tools Required:**

- Impact Slide Hammer T50T-100-A
- Impact Slide Hammer T50T-100-B

Removal

1. Remove transaxle. Refer to applicable Section in Group 07.
2. Remove flywheel as outlined.
3. Remove engine rear cover plate.
4. Using a sharp chisel or punch and hammer, cut a hole in center of plug.

5. Remove plug using Impact Slide Hammer T59L-100-B or T50T-100-A. The plug can also be pried from bore using a large punch. Use care to prevent damage to plug bore.

Installation

NOTE: Prior to installing a core plug, the plug bore should be inspected for any damage that would interfere with proper sealing of the plug. If the bore is damaged it will be necessary to true the surface by boring for the next specified oversize plug. Oversize (OS) plugs are identified by the OS stamped in the flat located on cup side of plug.