

the same tool for removing the bearing to install the new bearings, pull into place.

# Note: Rear balance shaft bearing is to be 0.99 to 1.49mm in from the rear oil seal retainer face of the cylinder block.



d) Only if required press front bearing from balance shaft, press a new bearing in to place.

### 9. Camshaft

#### Check Camshaft Lift.

a) Camshaft in engine.

With valve rocker gear removed, setup a dial gauge on top of the pushrods. Rotate the camshaft to measure camshaft for specified lift, see specification below.

b) Camshaft removed from engine, see clean and inspect. Remove

# Camshaft sprocket has been removed as above.

a) Remove valve pushrods and lifters.

b) Remove the sprocket key from the front of the camshaft if loose.

c) Remove the camshaft thrust plate, 2 Torx T30 screws.

d) Gently pull the camshaft from the engine, do not damage lobes and bearings while removing.

#### Clean and Inspect Camshaft.

1. Clean camshaft thoroughly using a suitable cleaning solution. Wash with clean water or steam.

2. Check camshaft bearing journals for overheating, damage or wear, lobes for damage or wear, with excessive wear the hardened surface will be damaged or removed (never reuse a camshaft with hardened lobe surface damaged).

3. Inspect camshaft journal diameter with micrometer.

Replace camshaft, if journals are not as specified.

**Camshaft Journal Diameter: 46.858 - 46.893 mm**

4. Camshaft in "V" block, inspect camshaft lobes for specified height.

Replace camshaft, if journals are not as specified.

#### Camshaft Specified Lift:

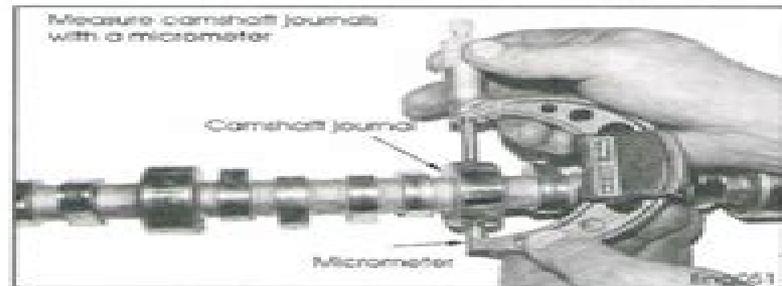
**Inlet Lobe: 6.56 mm**

**Outlet Lobe: 6.48mm**

(b) Position camshaft on "V" blocks and check runout of centre camshaft journal.

**Camshaft Centre Max. Runout: 0.06mm.**

#### Installation



# The crankshaft must be at TDC compression No1 cylinder.

1. a) Install balance shaft driven gear to balance shaft, if necessary, align the slot in the back of gear with pin of balance shaft, apply loctite 242 to the thread of the bolt, tight to specification.

**Balance Shaft Gear bolt: 18-26Nm plus 67°-73° turn**  
b) Install balance shaft, molybdenum base grease to balance bearings journal surface.



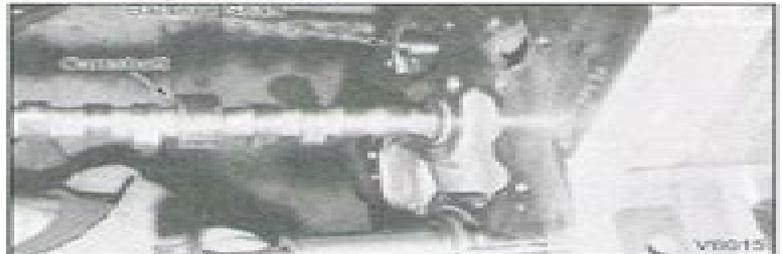
### 2. Camshaft

a) Gently slide the camshaft into the cylinder block, do not damage lobes and bearings while installing.

b) Apply (Lubrizol 6612) molybdenum base grease to camshaft bearings and lobes, install the camshaft thrust plate, 2 Torx T30 screws, apply loctite 242 to threads of screws.

**Thrust Plate Torx T30 Screws: 12-19Nm.**

c) Install key to camshaft.



# 199mercedes S32service Repair Manual 97

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