

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:

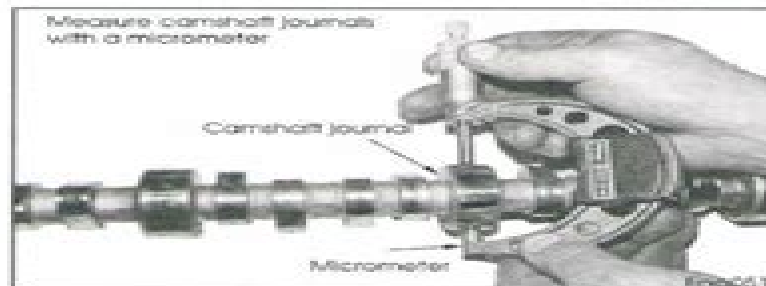
Inlet Lobe: 6.56 mm

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.



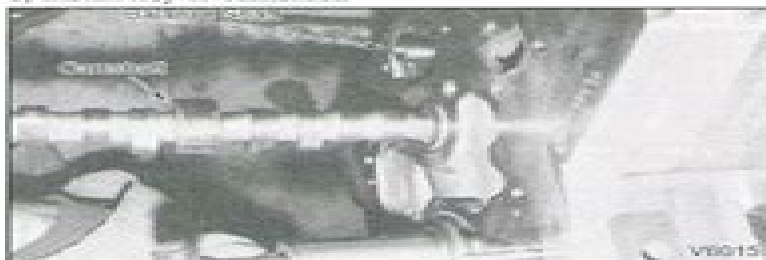
2. Camshaft

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.



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Table of Contents 199mercedes S32service Repair Manual 97

1. Understanding the eBook 199mercedes S32service Repair Manual 97
 - The Rise of Digital Reading 199mercedes S32service Repair Manual 97
 - Advantages of eBooks Over Traditional Books
2. Identifying 199mercedes S32service Repair Manual 97
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 199mercedes S32service Repair Manual 97
 - User-Friendly Interface
4. Exploring eBook Recommendations from 199mercedes S32service Repair Manual 97
 - Personalized Recommendations
 - 199mercedes S32service Repair Manual 97 User Reviews and Ratings

-
- 199mercedes S32service Repair Manual 97 and Bestseller Lists
 - 5. Accessing 199mercedes S32service Repair Manual 97 Free and Paid eBooks
 - 199mercedes S32service Repair Manual 97 Public Domain eBooks
 - 199mercedes S32service Repair Manual 97 eBook Subscription Services
 - 199mercedes S32service Repair Manual 97 Budget-Friendly Options
 - 6. Navigating 199mercedes S32service Repair Manual 97 eBook Formats
 - ePub, PDF, MOBI, and More
 - 199mercedes S32service Repair Manual 97 Compatibility with Devices
 - 199mercedes S32service Repair Manual 97 Enhanced eBook Features
 - 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 199mercedes S32service Repair Manual 97
 - Highlighting and Note-Taking 199mercedes S32service Repair Manual 97
 - Interactive Elements 199mercedes S32service Repair Manual 97
 - 8. Staying Engaged with 199mercedes S32service Repair Manual 97
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 199mercedes S32service Repair Manual 97
 - 9. Balancing eBooks and Physical Books 199mercedes S32service Repair Manual 97
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 199mercedes S32service Repair Manual 97
 - 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 - 11. Cultivating a Reading Routine 199mercedes S32service Repair Manual 97
 - Setting Reading Goals 199mercedes S32service Repair Manual 97
 - Carving Out Dedicated Reading Time
 - 12. Sourcing Reliable Information of 199mercedes S32service Repair Manual 97
 - Fact-Checking eBook Content of 199mercedes S32service Repair Manual 97
 - Distinguishing Credible Sources

-
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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peserta didik serta analisis lembar observasi penggunaan audio visual

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