

Chrysler 300M 1999-2004 Workshop Manual

REMOVAL AND INSTALLATION (Continued)

(2) If front crankshaft seal was already installed, place Special Tool 6780-2, Slaves over crankshaft seal to guide and protect seal lip.

(3) Before installing timing cover gasket apply a 1/8 inch bead of Mopar Engine RTV GRTM II to the parting lines between the oil pan and cylinder block (Fig. 54).

(4) Install timing cover and gasket. Tighten 1400 cover bolts to 34 Nm (25 ft. lbs.) and 140 bolts to 12 Nm (9 ft. lbs.) (Fig. 55).

(5) If not previously performed, install crankshaft oil seal using Special Tool 6780-2 shown and 6780-1 installer.

(6) Install crankshaft damper and tighten center bolt to 170 Nm (125 ft. lbs.).

(7) Attach power steering pump to bracket.

(8) Install A/C belt tensioner assembly to timing cover.

(9) Install generator/pump wiring drive belt on cover pulley and bracket.

(10) Install fan module and accessory drive belts. Refer to COOLING SYSTEM for procedure.

(11) Install upper radiator crossmember. Refer to EXHAUST for procedure.

(12) Connect negative cable.

TIMING CHAIN AND SPROCKETS

REMOVAL

(1) Remove upper water manifold. Refer to procedure in this section.

(2) Remove cylinder head covers, crankshaft damper, and timing chain cover. Refer to procedures in this section.

CAUTION When aligning timing marks, always rotate engine by turning the crankshaft. Failure to do so will result in valve and/or piston damage.

REMOVAL AND INSTALLATION (Continued)

(12) Install primary timing chain. Refer to procedure in this section.



Fig. 56 Crankshaft Chain Timing

1 - CRANKSHAFT
2 - CRANKSHAFT SPROCKET

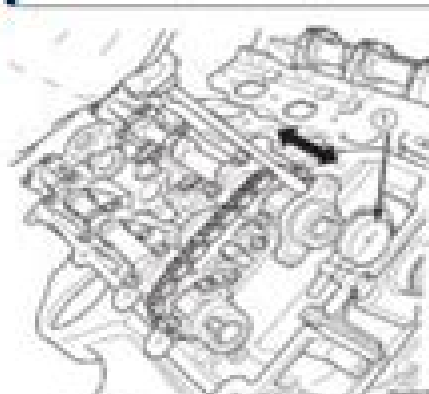


Fig. 57 Crankshaft End Play Measuring

1 - END MEASUREMENT

ROCKER ARMS

REMOVAL

(1) Remove cylinder head covers. Refer to procedure in this section.

CAUTION Always depress valve spring only enough to install rocker arm (Fig. 58).

(2) Using Special Tool 6211, and 6214 Adapters, depress valve spring only enough to install rocker arm (Fig. 58).

(3) Remove rocker arm from cylinder head.

CAUTION If rocker arms are to be reused, identify position of rocker arms for reassembly in their original positions.

(4) Repeat procedure for each rocker arm being removed.

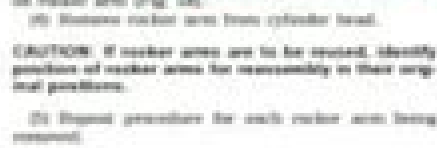


Fig. 58 Rocker Arm—Removal/Installation

1 - SPECIAL TOOL 6211
2 - ADAPTER 6214

INSPECTION

Inspect the rocker arm for wear or damage (Fig. 59). Replace as necessary.

INSTALLATION

(1) Lubricate rocker arm with clean engine oil before installation.

(2) Rotate engine until cam lobe is on its base circle (back of rocker arm being installed).

(3) Using Special Tools 6211, and 6214 Adapters, depress valve spring only enough to install rocker arm (Fig. 58).

(4) Install rocker arm in original position of removal over valve and lock adjuster. Release tension on valve spring.



- 1 - CRANKSHAFT
2 - CRANKSHAFT SPROCKET
3 - CRANKSHAFT SPROCKET
4 - CRANKSHAFT SPROCKET
5 - CRANKSHAFT SPROCKET
6 - CRANKSHAFT SPROCKET
7 - CRANKSHAFT SPROCKET
8 - CRANKSHAFT SPROCKET
9 - CRANKSHAFT SPROCKET
10 - CRANKSHAFT SPROCKET
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12 - CRANKSHAFT SPROCKET

300m 2000 Service And Repair Manual

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Table of Contents 300m 2000 Service And Repair Manual

1. Understanding the eBook 300m 2000 Service And Repair Manual
 - The Rise of Digital Reading 300m 2000 Service And Repair Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying 300m 2000 Service And Repair Manual
 - 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 eBook 300m 2000 Service And Repair Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from 300m 2000 Service And Repair Manual
 - Personalized Recommendations
 - 300m 2000 Service And Repair Manual User Reviews and Ratings
 - 300m 2000 Service And Repair Manual and Bestseller Lists
5. Accessing 300m 2000 Service And Repair Manual Free and Paid eBooks

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 - 300m 2000 Service And Repair Manual Budget-Friendly Options
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- ePub, PDF, MOBI, and More
 - 300m 2000 Service And Repair Manual Compatibility with Devices
 - 300m 2000 Service And Repair Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of 300m 2000 Service And Repair Manual
 - Highlighting and Note-Taking 300m 2000 Service And Repair Manual
 - Interactive Elements 300m 2000 Service And Repair Manual
8. Staying Engaged with 300m 2000 Service And Repair Manual
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 300m 2000 Service And Repair Manual
9. Balancing eBooks and Physical Books 300m 2000 Service And Repair Manual
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection 300m 2000 Service And Repair Manual
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 300m 2000 Service And Repair Manual
- Setting Reading Goals 300m 2000 Service And Repair Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 300m 2000 Service And Repair Manual
- Fact-Checking eBook Content of 300m 2000 Service And Repair Manual
 - 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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