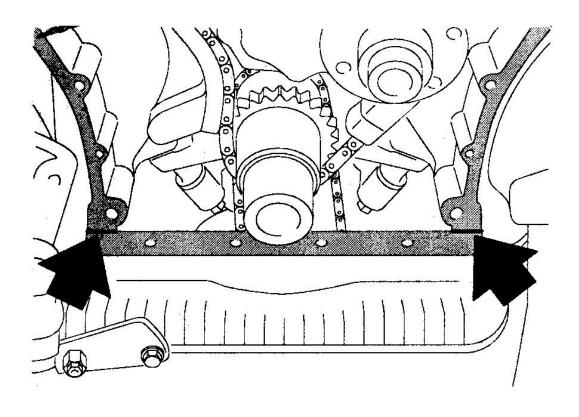
1995-01 ENGINES BMW - 5.4L V12



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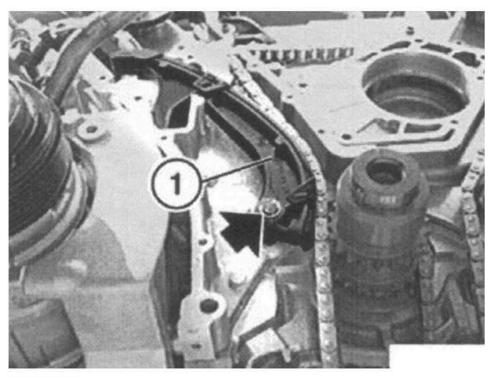
Fig. 110: Replacing Radial Seal Courtesy of BMW OF NORTH AMERICA, INC.

TIMING CASE LOWER SECTION

Removal & Installation

- 1. Remove lower section of timing case cover. See <u>LOWER TIMING CASE COVER</u> under REMOVAL & INSTALLATION. Unfasten bolts and remove water pump. See <u>WATER PUMP</u> under REMOVAL & INSTALLATION. Clean sealing faces and fit new gaskets. Remove snap ring and remove tensioning rail. See **Fig. 111**. Remove timing chain.
- 2. To install, reverse removal procedure. Note installation location of chain on retaining bracket. See <u>Fig. 112</u>. Remove retaining pins from tensioning rail. See <u>Fig. 113</u>. If necessary, remove retaining bracket for guide rail. Remove bolts. Remove timing case. Replace gasket. Coat contact edges with liquid sealing compound Hylomar SQ 32 M.

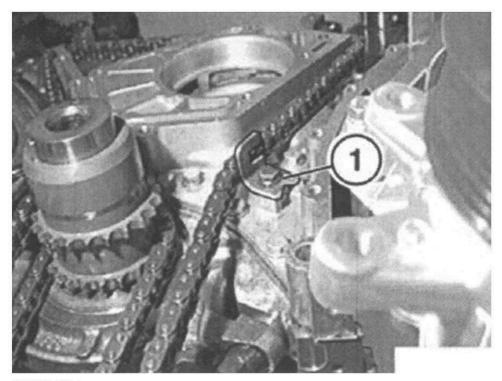
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Fig. 111: Removing Tensioning Rail Courtesy of BMW OF NORTH AMERICA, INC.

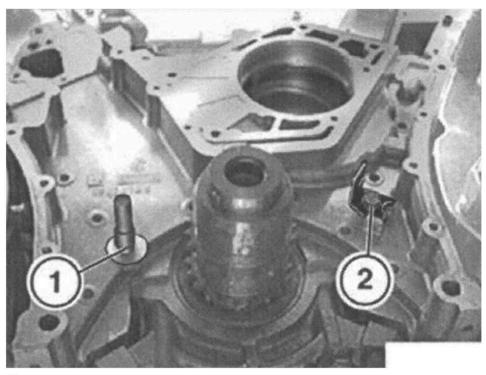
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Fig. 112: Installation Location Of Chain Courtesy of BMW OF NORTH AMERICA, INC.

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Fig. 113: Removing Retaining Bracket From Guide Rail Courtesy of BMW OF NORTH AMERICA, INC.

CRANKSHAFT FRONT SEAL

Removal & Installation

- 1. Remove vibration damper. See <u>VIBRATION DAMPER</u>. Install Pressure Piece (11 2 383) to crankshaft. Screw in Extractor (11 1 210) until it is rigidly connected with radial sealing ring. Remove radial sealing ring by tightening in bolt. See <u>Fig. 114</u> and <u>Fig. 115</u>.
- 2. To install, reverse removal procedure. Coat sealing lips of new radial sealing ring with oil. Using Bushing (11 5 110) and central bolt, install radial seal until flush with timing case cover. See **Fig. 116**.

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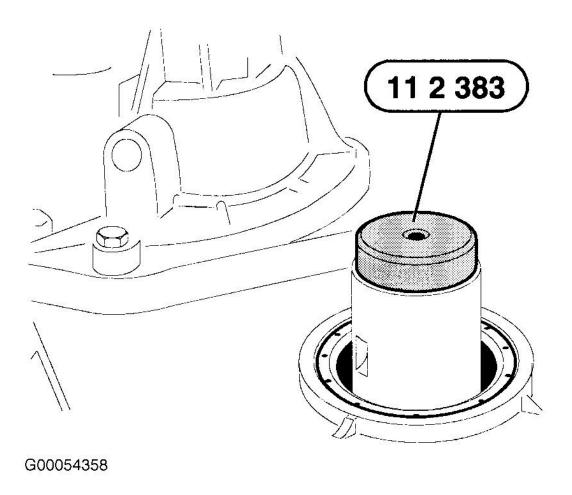
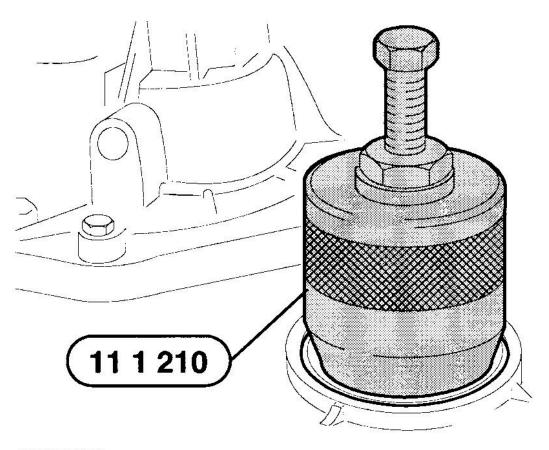


Fig. 114: Identifying Pressure Piece (11 2 383) Courtesy of BMW OF NORTH AMERICA, INC.

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Fig. 115: Identifying Removing Radial Sealing Ring Courtesy of BMW OF NORTH AMERICA, INC.