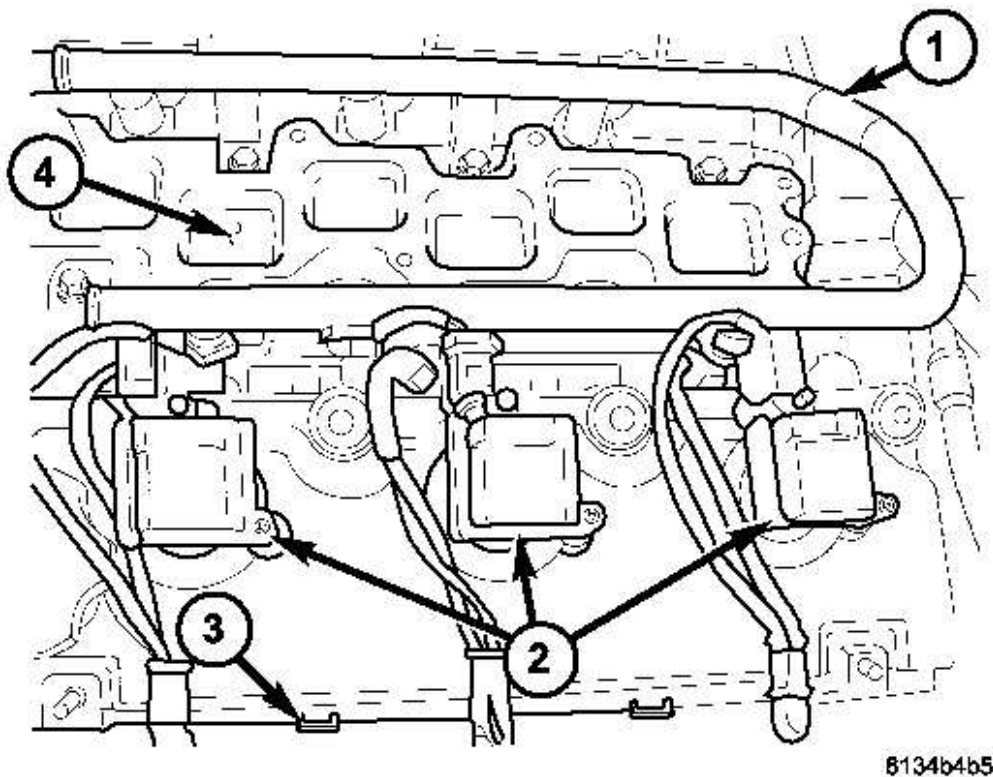


## COVER CYLINDER HEAD - LEFT

### REMOVAL



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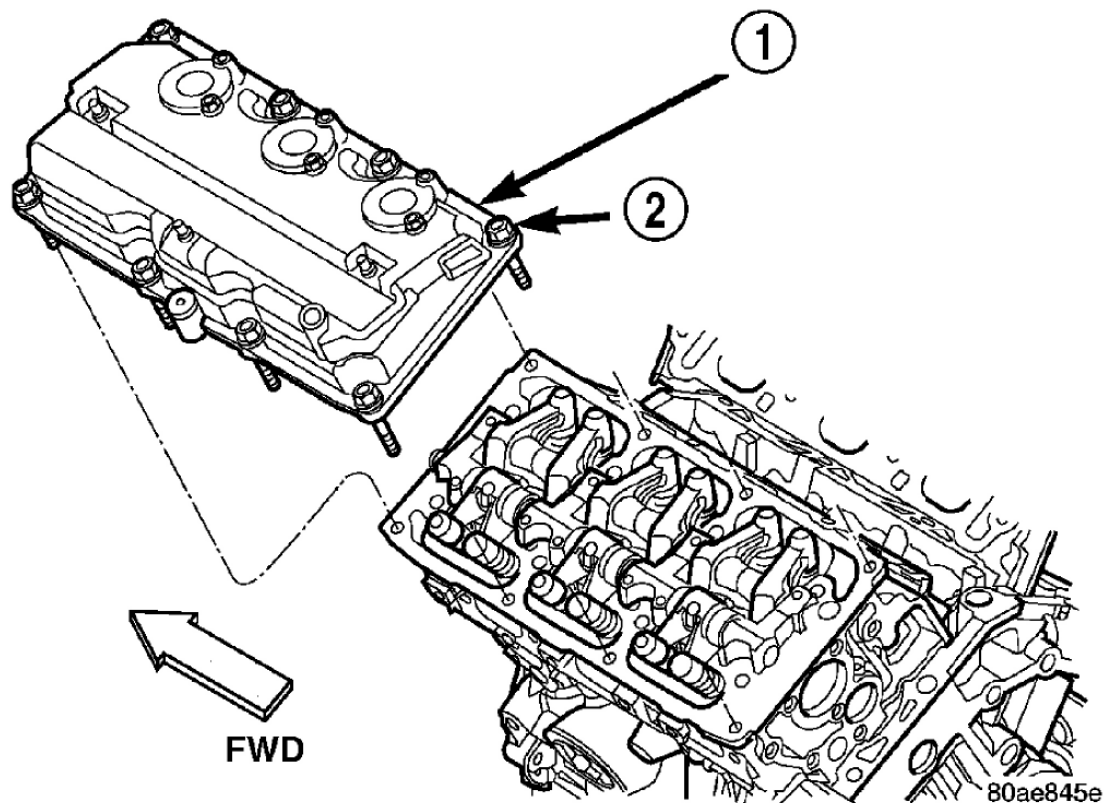
**Fig. 127: IGNITION COILS - LEFT CYLINDER HEAD**

Courtesy of DAIMLERCHRYSLER CORP.

- 1 - FUEL RAIL
- 2 - IGNITION COILS
- 3 - WIRING HARNESS
- 4 - LOWER INTAKE MANIFOLD

**WARNING: DO NOT START OR RUN ENGINE WITH CYLINDER HEAD COVER REMOVED FROM THE ENGINE. DAMAGE OR PERSONAL INJURY MAY OCCUR.**

1. Disconnect and isolate the negative battery cable.
2. Remove the upper intake manifold from the engine (Refer to [MANIFOLD - INTAKE](#)).
3. Cover lower intake manifold (4) with a suitable cover during service.
4. Disconnect and remove the three ignition coils (2). See [Fig. 127](#).
5. Remove the ground strap/resistor retaining bolt from the cylinder head cover.
6. Lift up on the wire harness track (3) retaining tabs. See [Fig. 127](#).

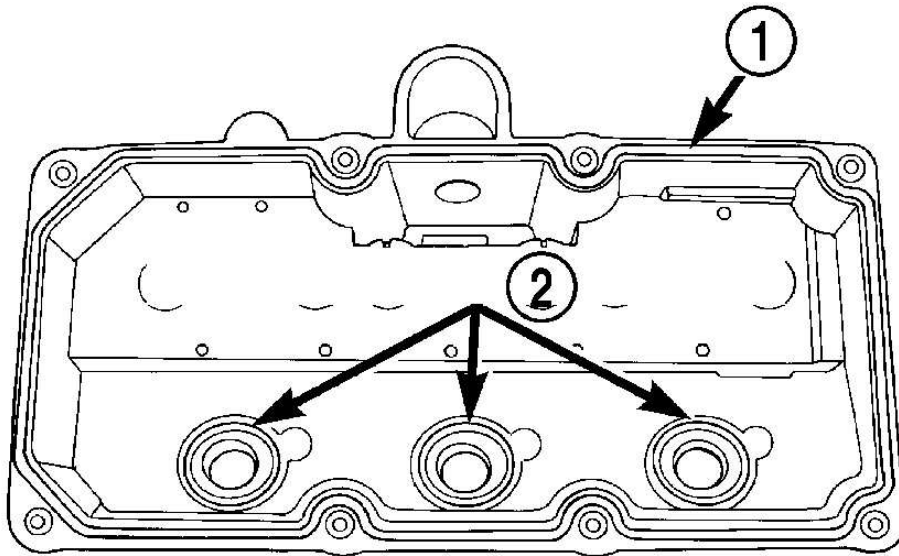


**Fig. 128: Cylinder Head Covers**  
Courtesy of DAIMLERCHRYSLER CORP.

1 - CYLINDER HEAD COVER-LEFT SIDE 2 - BOLTS (8)
--

7. Completely loosen the cylinder head cover retaining bolts and remove the cylinder head cover. See [Fig. 128](#).

## INSTALLATION



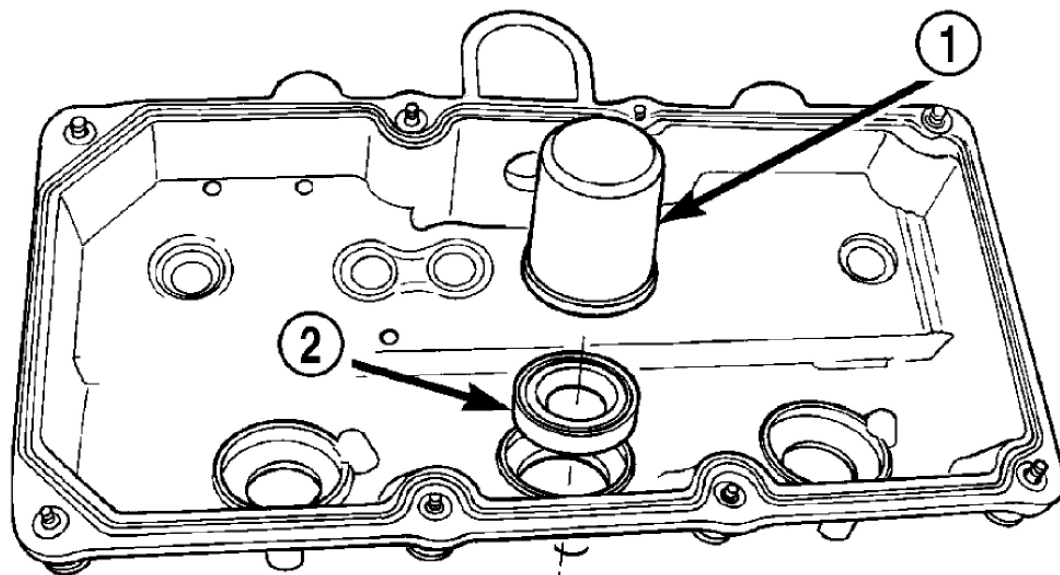
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**Fig. 129: Cylinder Head Cover Gasket and Spark Plug Tube Seals**

Courtesy of DAIMLERCHRYSLER CORP.

- |   |
|---|
| 1 - CYLINDER HEAD COVER GASKET<br>2 - SPARK PLUG TUBE SEALS |
|---|

1. Clean cylinder head and cover mating surfaces. Inspect and replace gasket (1) and seals (2) as necessary. See **Fig. 129**.

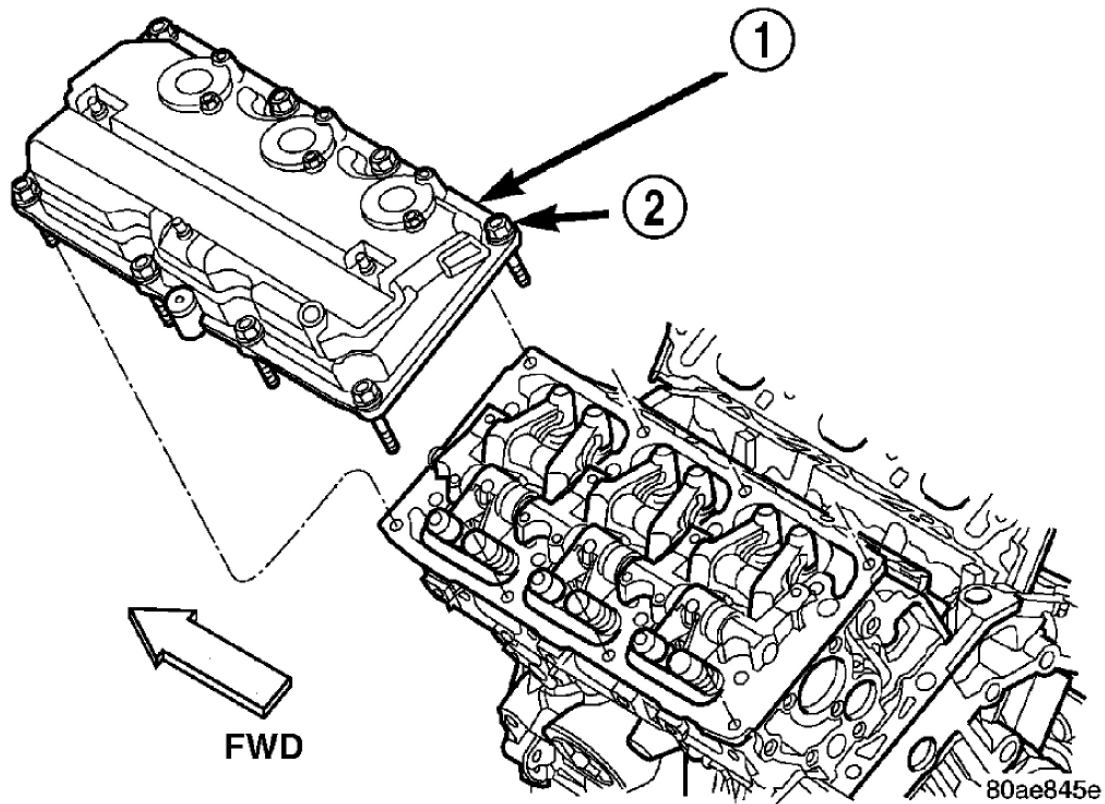


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**Fig. 130: Spark Plug Tube Seal Installation**  
Courtesy of DAIMLERCHRYSLER CORP.

1 - SPECIAL TOOL MD-998306 2 - SPARK PLUG TUBE SEAL
--

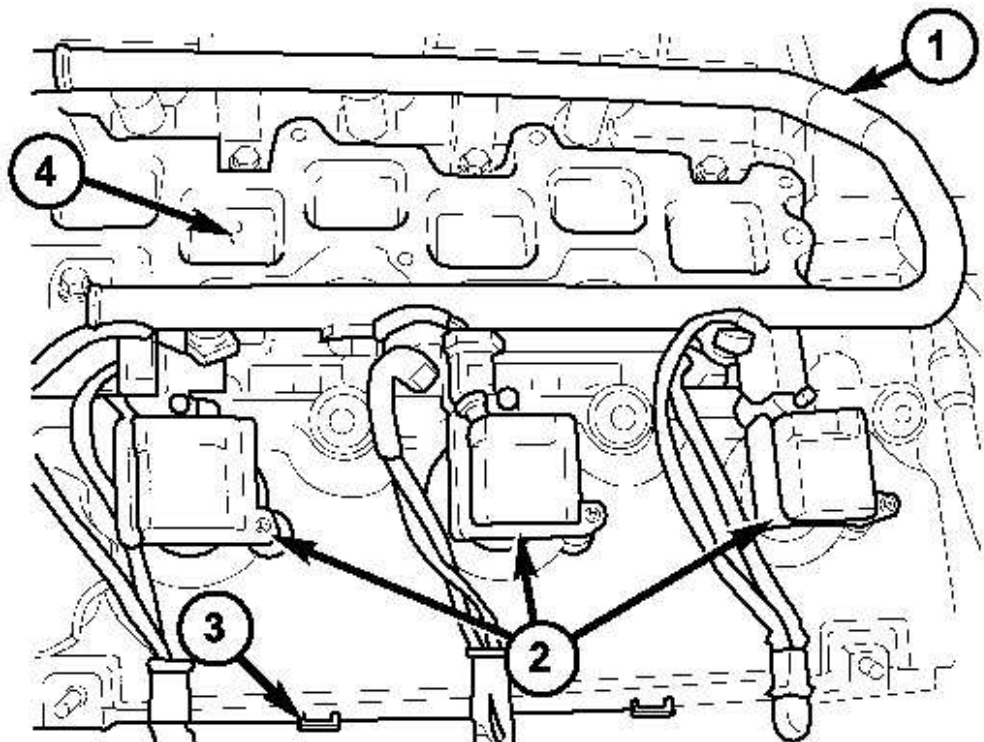
2. To replace spark plug tube seals (2):
  - Using a suitable pry tool, carefully remove tube seals (2).
  - Position new seal (2) with the part number on seal facing cylinder head cover.
  - Install seals using Special Tool MD-998306 (1). See **Fig. 130**.



**Fig. 131: Cylinder Head Covers**  
Courtesy of DAIMLERCHRYSLER CORP.

1 - CYLINDER HEAD COVER-LEFT SIDE 2 - BOLTS (8)
--

3. Install cylinder head cover (1) and bolts (2). Tighten to 12 N.m (105 in. lbs.).



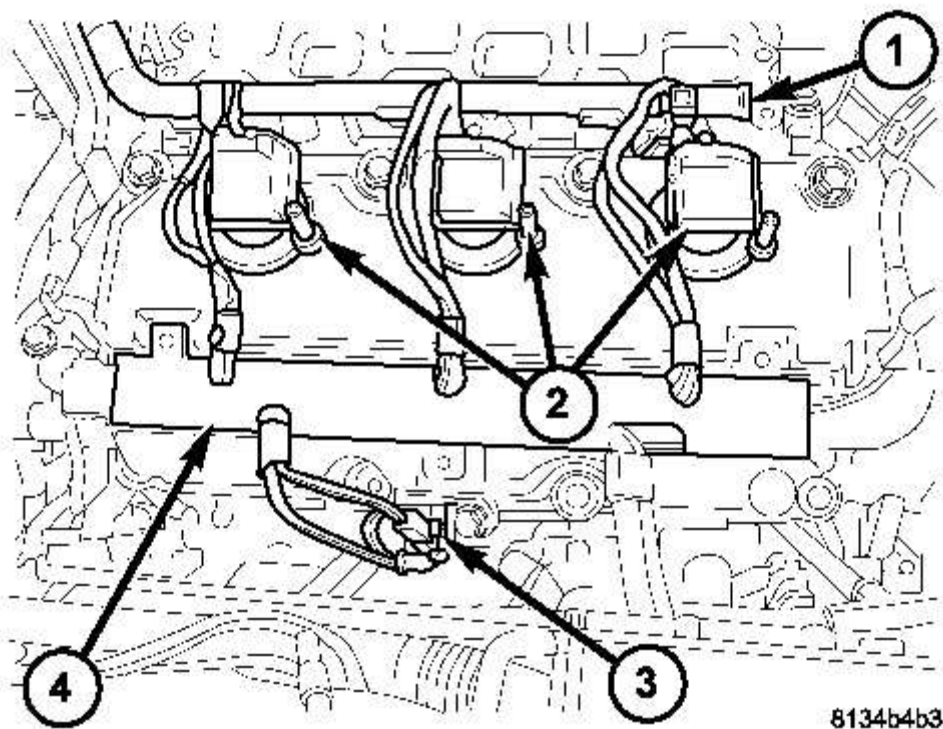
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**Fig. 132: IGNITION COILS - LEFT CYLINDER HEAD**

Courtesy of DAIMLERCHRYSLER CORP.

- |  |
|--|
| 1 - FUEL RAIL<br>2 - IGNITION COILS<br>3 - WIRING HARNESS<br>4 - LOWER INTAKE MANIFOLD |
|--|

4. Position the wiring harness (3) on the cylinder head cover.
5. Reclip the wire harness track retaining tabs into the cover.
6. Install the ground strap/resistor retaining bolt onto the cylinder head cover.
7. Install the ignition coils (2). Tighten mounting screws to 6.7 N.m (60 in. lbs.)
8. Connect the ignition coil electrical connectors (2).
9. Install upper intake manifold (Refer to **MANIFOLD - INTAKE**).
10. Connect negative battery cable.

**COVER CYLINDER HEAD - RIGHT****REMOVAL****Fig. 133: IGNITION COILS - RIGHT CYLINDER HEAD**

Courtesy of DAIMLERCHRYSLER CORP.

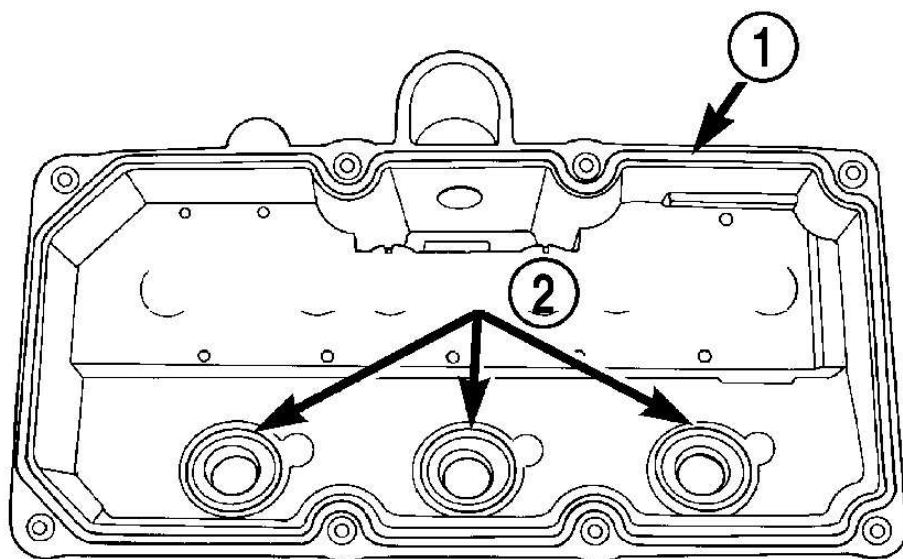
- 1 - FUEL RAIL
- 2 - IGNITION COIL
- 3 - CAPACITOR
- 4 - ENGINE WIRING HARNESS

**WARNING: DO NOT START OR RUN ENGINE WITH CYLINDER HEAD COVER REMOVED FROM THE ENGINE. DAMAGE OR PERSONAL INJURY MAY OCCUR.**

1. Disconnect the negative battery cable.

2. Remove the upper intake manifold (Refer to **MANIFOLD - INTAKE**).
3. Cover lower intake manifold openings during service.
4. Disconnect and remove the three ignition coils (2).
5. Lift up on the wire harness track retaining tabs (4).
6. Remove the ground strap retaining bolt (3) from the cylinder head cover.
7. Completely loosen the cylinder head cover retaining bolts and remove the cylinder head cover.

## INSTALLATION

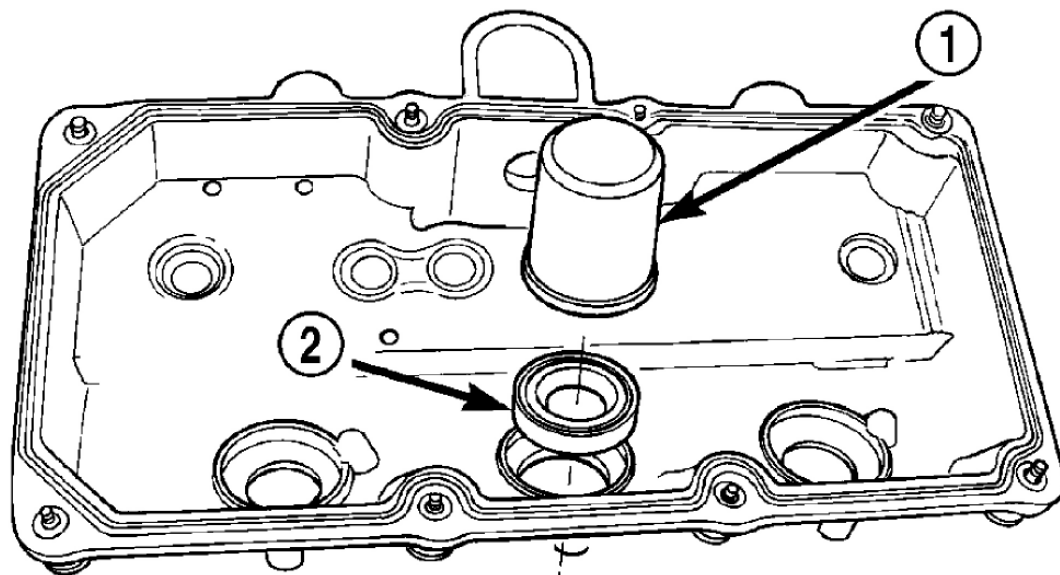


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**Fig. 134: Cylinder Head Cover Gasket and Spark Plug Tube Seals**  
Courtesy of DAIMLERCHRYSLER CORP.

1 - CYLINDER HEAD COVER GASKET  
2 - SPARK PLUG TUBE SEALS

1. Clean cylinder head and cover mating surfaces. Inspect and replace gasket (1) and seals (2) as necessary. See **Fig. 134**.

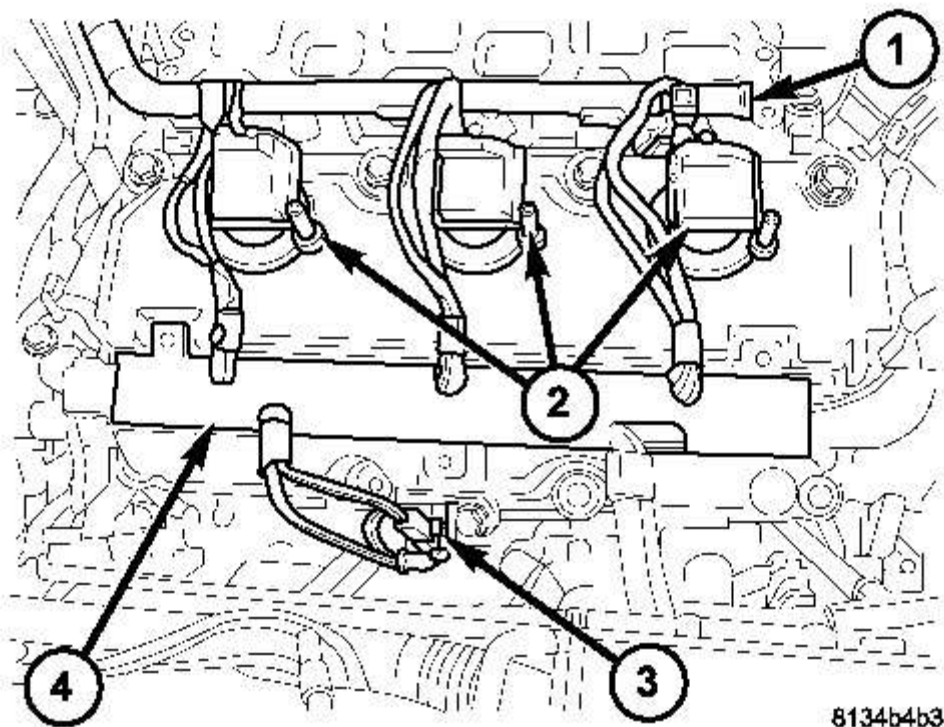


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**Fig. 135: Spark Plug Tube Seal Installation**  
Courtesy of DAIMLERCHRYSLER CORP.

1 - SPECIAL TOOL MD-998306 2 - SPARK PLUG TUBE SEAL
--

2. To replace spark plug tube seals (2):
  - Using a suitable pry tool, carefully remove tube seals (2).
  - Position new seal (2) with the part number on seal facing cylinder head cover.
  - Install seals using Special Tool MD-99830 (1). See [Fig. 135](#).



**Fig. 136: IGNITION COILS - RIGHT CYLINDER HEAD**

Courtesy of DAIMLERCHRYSLER CORP.

- |  |
|--|
| 1 - FUEL RAIL<br>2 - IGNITION COIL<br>3 - CAPACITOR<br>4 - ENGINE WIRING HARNESS |
|--|

3. Install cylinder head cover bolts and tighten to 12 N.m (105 in. lbs.).
4. Install the ground strap retaining bolt (3) to the cylinder head cover.
5. Install the wire harness track (4).
6. Install the ignition coils (2). Tighten mounting screws to 6.7 N.m (60 in. lbs.). See **Fig. 136**.
7. Connect the ignition coil electrical connectors (2). See **Fig. 136**.
8. Install upper intake manifold (Refer to **MANIFOLD - INTAKE**).
9. Connect negative battery cable