

## Cylinder Head Cover Removal And Installation (2013-15)

### Removal

#### Front

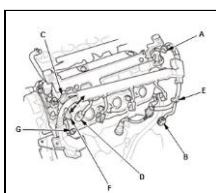
##### 1. Intake Manifold - Remove

1. Remove the intake manifold .

##### 2. Ignition Coil - Remove

1. Remove the three ignition coils from the front cylinder head .

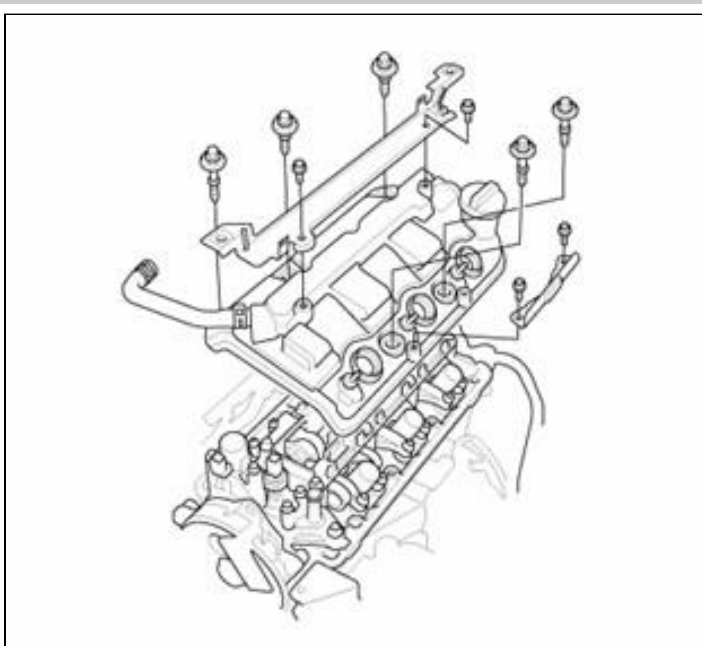
##### 3. Harness Holder - Remove



Courtesy of HONDA,  
U.S.A., INC.

1. Disconnect the EGR valve connector (A), the front A/F sensor connector (B), the rocker arm oil control solenoid A (Bank 2) connector (C), the front rocker arm oil pressure switch connector (D), and the harness clamp (E) securing the harness holder  
2. Remove the dipstick (F)  
3. Remove the bolt (G) securing the harness holder.

##### 4. Front Cylinder Head Cover - Remove



Courtesy of HONDA, U.S.A., INC.

1. Remove the front cylinder head cover.

#### Rear

##### 5. Intake Manifold - Remove

1. Remove the intake manifold .

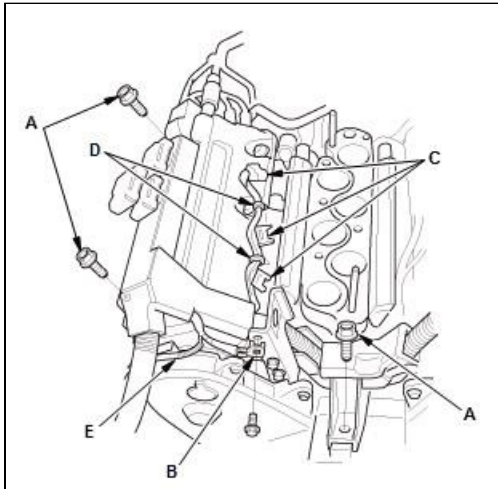
#### 6. Ignition Coil - Remove

1. Remove the three ignition coils from the rear cylinder head .

#### 7. Drive Belt - Remove

1. Remove the drive belt .

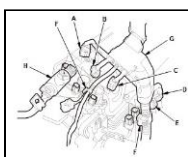
#### 8. Harness Holder - Remove



Courtesy of HONDA, U.S.A., INC.

1. Remove the harness holder mounting bolts (A) and the ground cable (B)
2. Disconnect the three injector connectors (C) and the two harness clamps (D)
3. Remove the harness (E) from the upper cover.

#### 9. Harness Holder - Remove

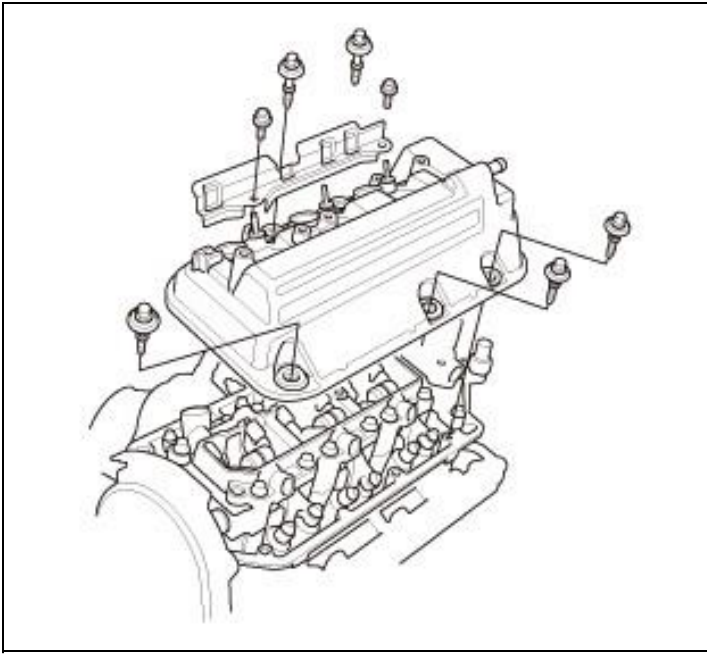


Courtesy of  
HONDA, U.S.A.,  
INC.

1. Disconnect the rear rocker arm oil pressure switch connector (A), the rocker arm oil control solenoid A (Bank 1) connector (B), the rocker arm oil control solenoid B (Bank 1) connector (C), the rear A/F sensor connector (D), the rear secondary HO2S connector (E), and the harness clamps (F)
2. Remove the harness holder (G)
3. Disconnect the breather hose (H).

#### 10. Rear Cylinder Head Cover - Remove

1. Remove the rear cylinder head cover.

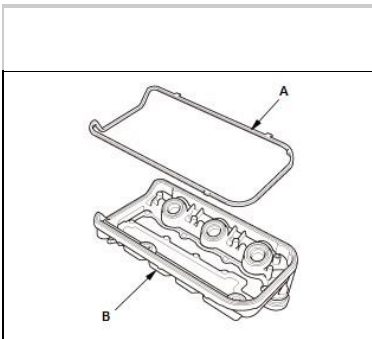


Courtesy of HONDA, U.S.A., INC.

## Installation

### Front

#### 1. Head Cover Gasket - Install



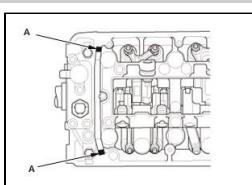
Courtesy of HONDA, U.S.A., INC.

1. Check the spark plug seals for damage. If any seals are damaged, replace it
2. Thoroughly clean the head cover gasket (A) and the groove of the cylinder head cover (B).

**NOTE:** Check and if necessary, replace the head cover gasket

3. Install the head cover gasket in the groove of the cover. Make sure the head cover gasket is seated s

#### 2. Front Cylinder Head Cover - Install

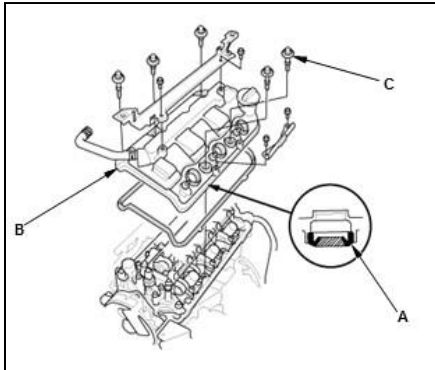


Courtesy of HONDA,  
U.S.A., INC.

1. Remove all of the old liquid gasket from the front rocker arm oil control valve and the cylinder head
2. Clean the head cover contacting surfaces with a shop towel
3. Apply liquid gasket (P/N 08717-0004, 08718-0003, 08718-0004, or 08718-0009) to the rocker arm oil control valve mating surfaces (A). Install the component within 5 minutes of applying the liquid gasket.

**NOTE:**

1. If you apply liquid gasket P/N 08718-0012, the component must be installed within 4 minutes.
2. If too much time has passed after applying the liquid gasket, remove the old liquid gasket and residue, then reapply the new liquid gasket.



4. Set the spark plug seals (A) on the spark plug tubes, and install the front cylinder head cover (B)
5. Inspect the spark plug seals for damage
6. Inspect the cover washers (C). Replace any washer that is damaged or deteriorated.

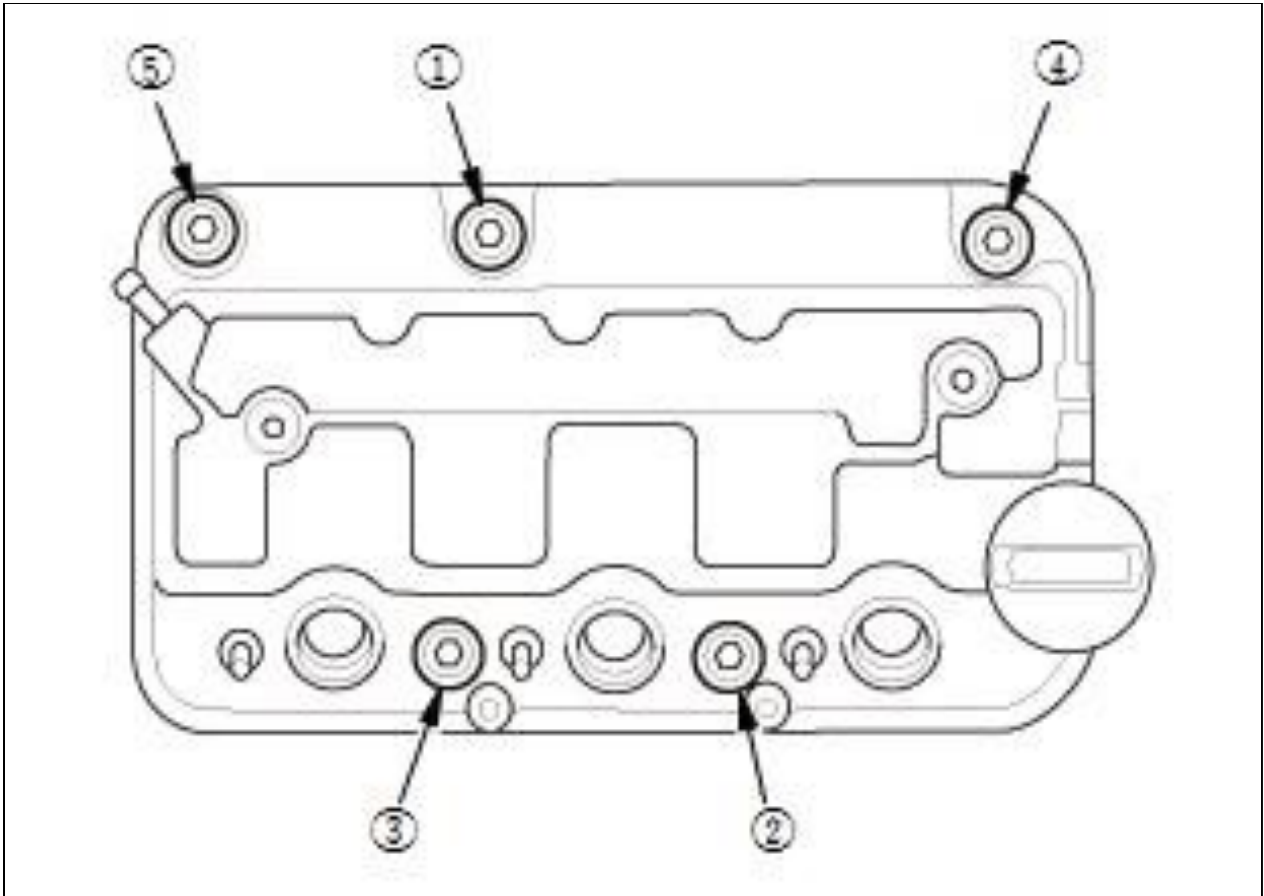
Courtesy of HONDA, U.S.A., INC.

7. Tighten the bolts in three steps. In the final step torque the bolts, in sequence, 12 N.m (1.2 kgf.m, 9 lbf.ft).

**NOTE:**

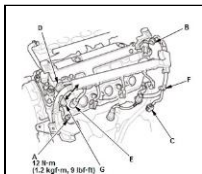
1. Wait at least 30 minutes before filling the engine with oil.
2. Do not run the engine for at least 3 hours after installing the cylinder head cover.

Fig 1: Cylinder Head Cover Bolt Tightening Sequence



Courtesy of HONDA, U.S.A., INC.

### 3. Harness Holder - Install



Courtesy of HONDA,  
U.S.A., INC.

1. Tighten the bolt (A) securing the harness holder
2. Connect the EGR valve connector (B), the front A/F sensor connector (C), the rocker arm oil control solenoid A (Bank 2) connector (D), the front rocker arm oil pressure switch connector (E), and the harness clamp (F) securing the harness holder, and install the dipstick (G).

### 4. Ignition Coil - Install

1. Install the three ignition coils to the front cylinder head .

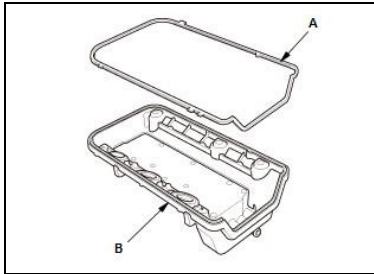
### 5. Intake Manifold - Install

1. Install the intake manifold .

### Rear

### 6. Head Cover Gasket - Install





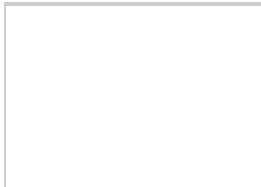
Courtesy of HONDA, U.S.A., INC.

1. Check the spark plug seals for damage. If any seals are damaged, replace it
2. Thoroughly clean the head cover gasket (A) and the groove of the cylinder head cover (B).

NOTE: Check and if necessary, replace the head cover gasket

3. Install the head cover gasket in the groove of the cover. Make sure the head cover gasket is seated s

### 7. Rear Cylinder Head Cover - Install

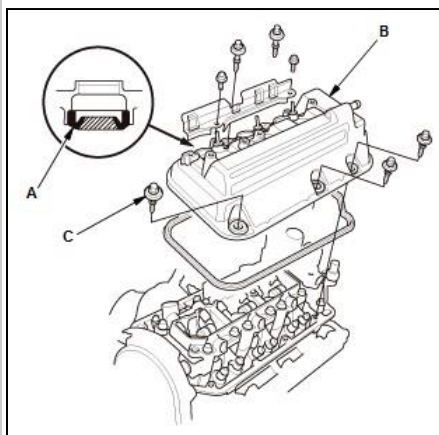


Courtesy of HONDA, U.S.A., INC.

1. Remove all of the old liquid gasket from the front rocker arm oil control valve and the cylinder head
2. Clean the head cover contacting surfaces with a shop towel
3. Apply liquid gasket (P/N 08717-0004, 08718-0003, 08718-0004, or 087180009) to the rocker arm oil control valve mating surfaces (A). Install the component within 5 minutes of applying the liquid gasket.

**NOTE:**

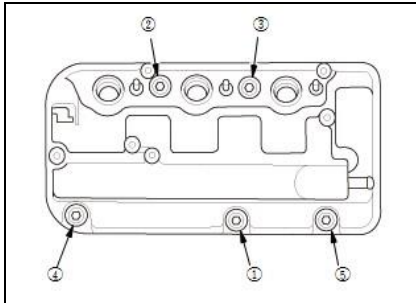
1. If you apply liquid gasket P/N 08718-0012, the component must be installed within 4 minutes.
2. If too much time has passed after applying the liquid gasket, remove the old liquid gasket and residue, then reapply the new liquid gasket.



Courtesy of HONDA, U.S.A., INC.

4. Set the spark plug seals (A) on the spark plug tubes, and install the rear cylinder head cover (B)
5. Inspect the spark plug seals for damage
6. Inspect the cover washers (C). Replace any washer that is damaged or deteriorated.

7. Tighten the bolts in three steps. In the final step torque the



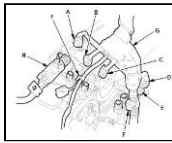
Courtesy of HONDA, U.S.A., INC.

bolts, in sequence, 12 N.m (1.2 kgf.m, 9 lbf.ft).

**NOTE:**

1. Wait at least 30 minutes before filling the engine with oil.
2. Do not run the engine for at least 3 hours after installing the cylinder head cover.

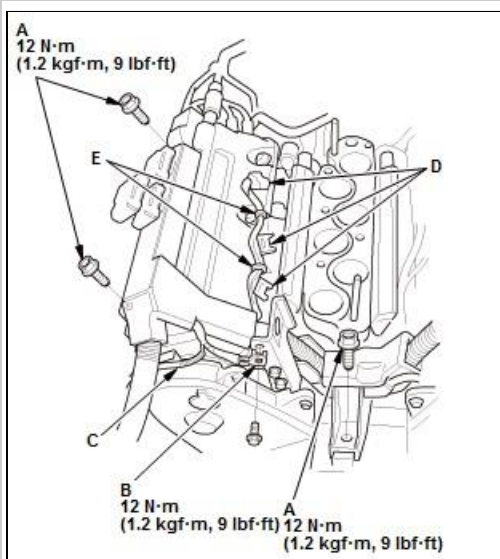
**8. Harness Holder - Install**



Courtesy of HONDA, U.S.A., INC.

1. Connect the rear rocker arm oil pressure switch connector (A), the rocker arm oil control solenoid A (Bank 1) connector (B), the rocker arm oil control solenoid B (Bank 1) connector (C), the rear A/F sensor connector (D), the rear secondary HO2S connector (E), and the harness clamps (F), then install the harness holder (G)
2. Connect the breather hose (H).

**9. Harness Holder - Install**



Courtesy of HONDA, U.S.A., INC.

1. Tighten the harness holder mounting bolts (A)
2. Install the ground cable (B)
3. Install the harness (C) to the upper cover
4. Reconnect the three injector connectors (D) and the two harness clamps (E).

**10. Drive Belt - Install**

1. Install the drive belt .

**11. Ignition Coil - Install**

1. Install the three ignition coils to the rear cylinder head .

12. Intake Manifold - Install

	1. Install the intake manifold .
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