

2014 ENGINE

Cylinder Head Assembly - Azera

CYLINDER HEAD COVER

COMPONENTS AND COMPONENTS LOCATION

Components

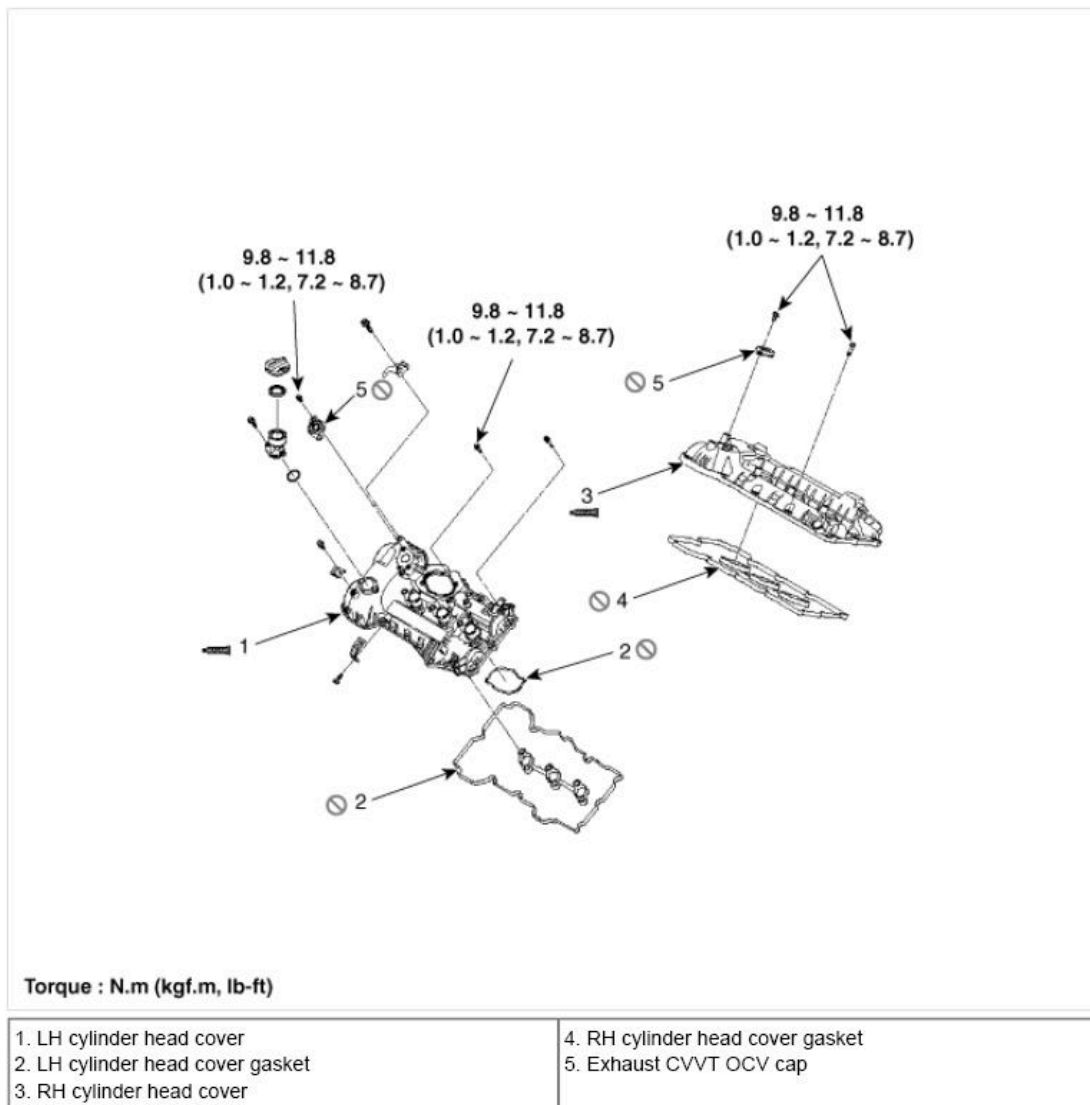


Fig. 1: Identifying Cylinder Head Cover And Related Components With Torque Specifications
Courtesy of HYUNDAI MOTOR AMERICA

REPAIR PROCEDURES

Removal

LH

1. Remove the Intake manifold.
(Refer to "**INTAKE MANIFOLD** ")
2. Remove the high pressure fuel pump.
(Refer to "**HIGH PRESSURE FUEL PUMP** ")
3. Remove the LH ignition coils.
(Refer to "**IGNITION COIL** ")
4. Remove the front engine hanger.
(Refer to "**ENGINE HANGER** ")
5. Remove the LH cylinder head cover.
 1. Remove the LH exhaust CVVT oil control valve cap (A).
 2. Remove the LH cylinder head cover (B) and gasket.

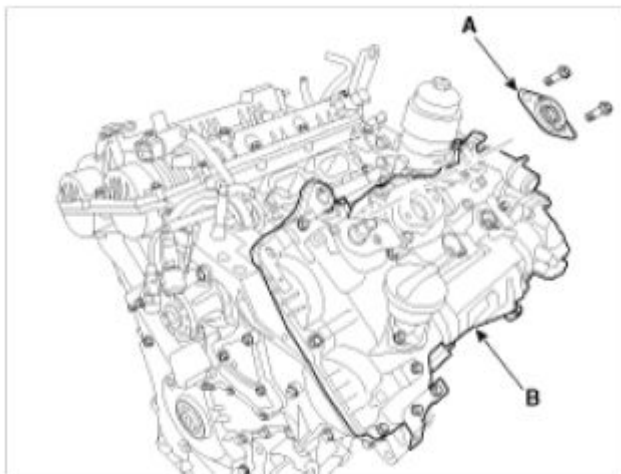


Fig. 2: Identifying CVVT Oil Control Valve Cap And LH Cylinder Head Cover
Courtesy of HYUNDAI MOTOR AMERICA

NOTE: Cover the cylinder head with a clean woven stuff or vinyl cover to prevent foreign materials from entering.

RH

1. Remove the surge tank.

(Refer to "**SURGE TANK** ")
2. Remove the RH ignition coils.

(Refer to "**IGNITION COIL** ")
3. Remove the RH cylinder head cover.
 1. Remove the RH exhaust CVVT oil control valve cap (A).
 2. Remove the RH cylinder head cover (B) and gasket.

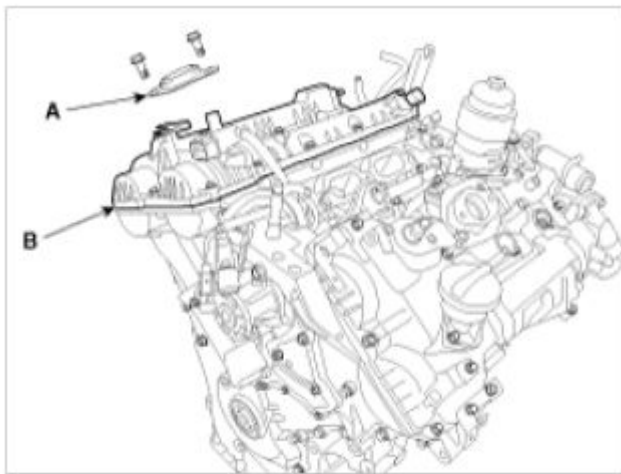


Fig. 3: Identifying CVVT Oil Control Valve Cap And RH Cylinder Head Cover
Courtesy of HYUNDAI MOTOR AMERICA

NOTE: Cover the cylinder head with a clean woven stuff or vinyl cover to prevent foreign materials from entering.

Installation

LH

1. Install the LH cylinder head cover.

CAUTION:

- Install the cylinder head cover under the exhaust OCV Cap is removed.
- To prevent engine oil leakage, surely install the exhaust OCV cap after installing the cylinder head cover.

1. The hardening sealant located on the upper area between timing chain cover and cylinder head should be removed before assembling cylinder head cover.

2. After applying TB 1217H (Hyundai Gray RTV) sealant, it should be assembled within 5 minutes.

Bead width: 2.5mm (0.1in.)

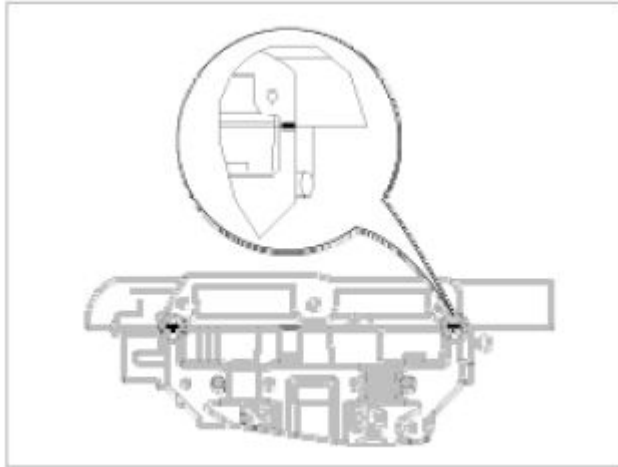


Fig. 4: Identifying LH Cylinder Head Cover Sealant Applying Area
Courtesy of HYUNDAI MOTOR AMERICA

3. The firing and/or blow out test should not be performed within 30 minutes after the cylinder head cover was assembled.
4. Install the LH cylinder head cover bolts as following method.

Tightening torque:

1st step: 4.9 ~ 5.9N.m (0.5 ~ 0.6kgf.m, 3.6 ~ 4.3lb-ft)

2nd step: 9.8 ~ 11.8N.m (1.0 ~ 1.2kgf.m, 7.2 ~ 8.7lb-ft)

CAUTION: Do not reuse cylinder head cover gasket.

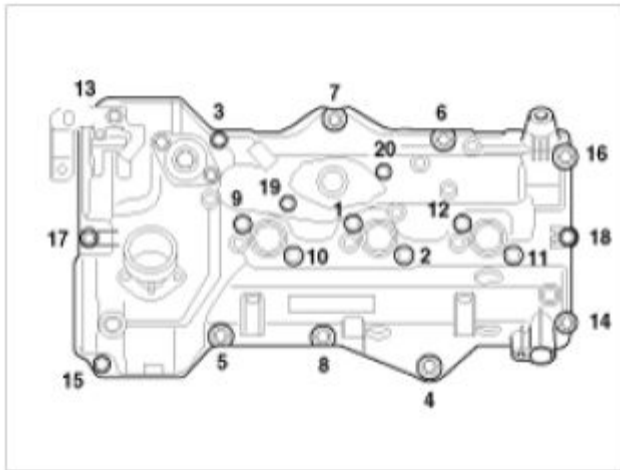


Fig. 5: Identifying LH Cylinder Head Cover Mounting Bolts Tightening Sequence
 Courtesy of HYUNDAI MOTOR AMERICA

5. Install the LH exhaust CVVT oil control valve cap.

Tightening torque:

9.8 ~ 11.8N.m (1.0 ~ 1.2kgf.m, 7.2 ~ 8.7lb-ft)

NOTE: Always use new exhaust CVVT oil control valve cap.

2. Install the other parts reverse order of removal.

RH

1. Install the RH cylinder head cover.

CAUTION:

- Install the cylinder head cover under the exhaust OCV cap is removed.
- To prevent engine oil leakage, surely install the exhaust OCV cap after installing the cylinder head cover.

1. The hardening sealant located on the upper area between timing chain cover and cylinder head should be removed before assembling cylinder head cover.
2. After applying TB 1217H (Hyundai Gray RTV) sealant, it should be assembled within 5 minutes.

Bead width: 2.5mm (0.1in.)

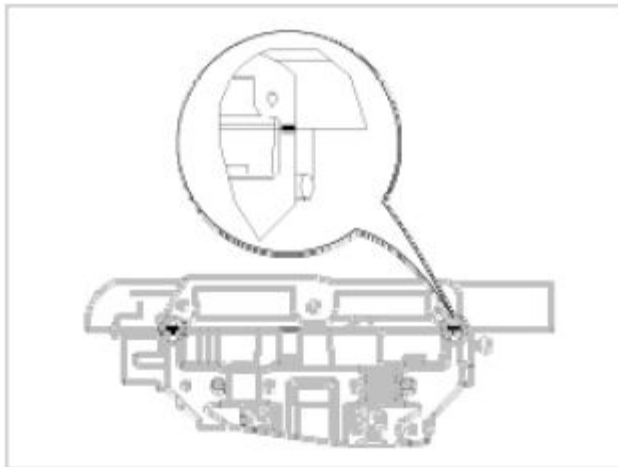


Fig. 6: Identifying RH Cylinder Head Cover Sealant Applying Area
 Courtesy of HYUNDAI MOTOR AMERICA

3. The firing and/or blow out test should not be performed within 30 minutes after the cylinder head cover was assembled.
4. Install the RH cylinder head cover bolts as following method.

Tightening torque:

1st step: 4.9 ~ 5.9N.m (0.5 ~ 0.6kgf.m, 3.6 ~ 4.3lb-ft)

2nd step: 9.8 ~ 11.8N.m (1.0 ~ 1.2kgf.m, 7.2 ~ 8.7lb-ft)

CAUTION: Do not reuse cylinder head cover gasket.

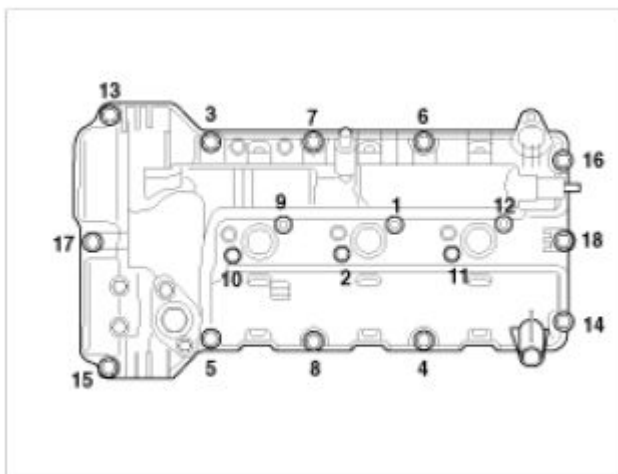


Fig. 7: Identifying RH Cylinder Head Cover Mounting Bolts Tightening Sequence