

8. Valve Clearance

A: INSPECTION

CAUTION:

If engine oil is spilt onto the exhaust pipe, wipe it off with cloth to avoid emission of smoke or causing a fire.

NOTE:

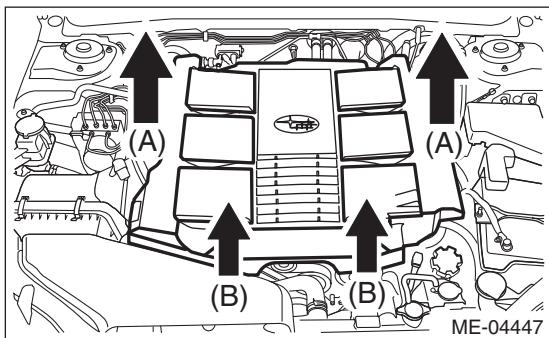
Inspection of valve clearance should be performed while engine is cold.

1) Remove the collector cover.

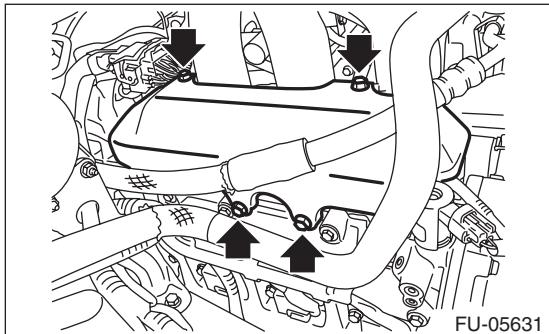
NOTE:

Follow the steps below when removing the collector cover.

- (1) Pull up the two points at the rear (A).
- (2) Pull up the two points at the front (B) while moving them forward.



- 2) Disconnect the ground cable from battery.
- 3) Lift up the vehicle.
- 4) Remove the under cover. <Ref. to EI-35, REMOVAL, Front Under Cover.>
- 5) Lower the vehicle.
- 6) When inspecting #1, #3 and #5 cylinders
 - (1) Remove the air intake duct, air cleaner case and air intake boot assembly. <Ref. to IN(H6DO)-8, REMOVAL, Air Intake Duct.> <Ref. to IN(H6DO)-5, REMOVAL, Air Cleaner Case.> <Ref. to IN(H6DO)-7, REMOVAL, Air Intake Boot.>
 - (2) Remove the fuel pipe protector (RH).



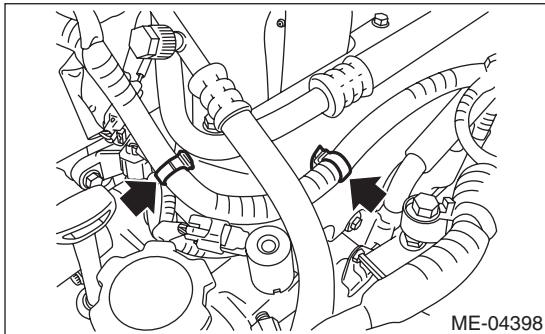
- (3) Disconnect the connector of oil pressure switch.

(4) Remove the ignition coil. <Ref. to IG(H6DO)-7, REMOVAL, Ignition Coil.>

(5) Remove the rocker cover (RH). <Ref. to ME(H6DO)-80, REMOVAL, Camshaft.>

7) When inspecting #2, #4 and #6 cylinders

- (1) Remove the battery and battery carrier. <Ref. to SC(H4SO)-25, REMOVAL, Battery.>
- (2) Remove two fixing clips on the fuel pipe protector (LH).



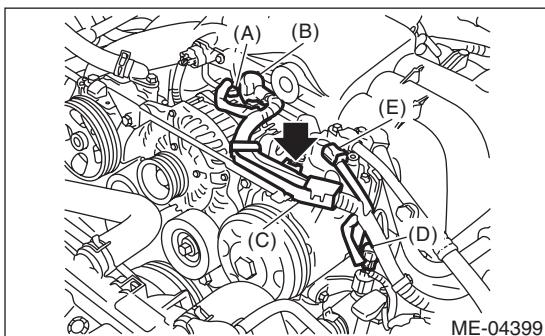
(3) Generator connector

(4) Generator terminal B

(5) Remove the harness cover from collector cover bracket.

(6) A/C compressor solenoid connector

(7) Flow sensor connector



(A) Generator connector

(B) Terminal B

(C) Harness cover

(D) A/C compressor solenoid connector

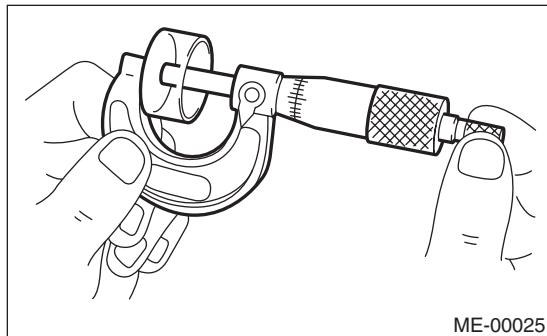
(E) Flow sensor connector

- (8) Slide the harness and connector to the battery side.

Valve Clearance

MECHANICAL

7) Measure the thickness of valve lifter using micrometer.



8) Select a valve lifter of suitable thickness using the measured valve clearance and valve lifter thickness, and install it.

NOTE:

Use a new valve lifter.

| Unit: mm (in) |
|--------------------------------------|
| $S = (V + T) - 0.20$ (0.0079) |
| S: Valve lifter thickness required |
| V: Measured valve clearance |
| T: Valve lifter thickness to be used |

9) Install the camshaft. <Ref. to ME(H6DO)-81, INSTALLATION, Camshaft.>

10) Install the cam sprocket. <Ref. to ME(H6DO)-78, INSTALLATION, Cam Sprocket.>

11) Install the timing chain assembly. <Ref. to ME(H6DO)-66, INSTALLATION, Timing Chain Assembly.>

12) Measure all valve clearance again at this time. If the valve clearance is not correct, repeat the procedure over again from the first step.

Valve clearance (adjustment value):

$0.20^{+0.04}_{-0.06}$ mm ($0.0079^{+0.0016}_{-0.0024}$ in)

13) After adjustment, install the related parts in the reverse order of removal.

NOTE:

Use a new rocker cover gasket.

2. EXHAUST SIDE

1) Remove the engine from vehicle. <Ref. to ME(H6DO)-35, REMOVAL, Engine Assembly.>

2) Measure all the valve clearances. <Ref. to ME(H6DO)-32, INSPECTION, Valve Clearance.>

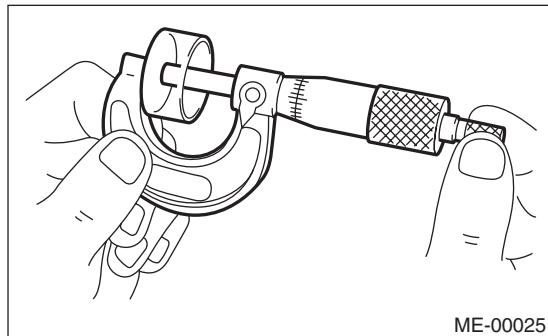
NOTE:

Record each valve clearance after measurement.

3) Remove the camshaft. <Ref. to ME(H6DO)-80, REMOVAL, Camshaft.>

4) Remove the valve lifter.

5) Measure the thickness of valve lifter using micrometer.



6) Select a valve lifter of suitable thickness using the measured valve clearance and valve lifter thickness, and install it.

NOTE:

Use a new valve lifter.

| Unit: mm (in) |
|--------------------------------------|
| $S = (V + T) - 0.35$ (0.0138) |
| S: Valve lifter thickness required |
| V: Measured valve clearance |
| T: Valve lifter thickness to be used |

7) Install the camshaft. <Ref. to ME(H6DO)-81, INSTALLATION, Camshaft.>

8) Install the cam sprocket. <Ref. to ME(H6DO)-78, INSTALLATION, Cam Sprocket.>

9) Install the timing chain assembly. <Ref. to ME(H6DO)-66, INSTALLATION, Timing Chain Assembly.>

10) Measure all valve clearance again at this time. If the valve clearance is not correct, repeat the procedure over again from the first step.

Valve clearance (adjustment value):

$0.35^{+0.05}_{-0.05}$ mm ($0.0138^{+0.0020}_{-0.0020}$ in)

11) After adjustment, install the related parts in the reverse order of removal.

NOTE:

Use a new rocker cover gasket.