

4. Ignition Timing

A: INSPECTION

CAUTION:

After warming-up, engine becomes very hot. Be careful not to burn yourself at measurement.

1. METHOD WITH SUBARU SELECT MONITOR

1) Before checking the ignition timing, check the following item:

- (1) Check the air cleaner element is free from clogging, spark plugs are in good condition, and hoses are connected properly.
- (2) Check the malfunction indicator light does not illuminate.

2) Warm up the engine.

3) Read the ignition timing using Subaru Select Monitor. <Ref. to EN(H6DO)(diag)-40, READ CURRENT DATA FOR ENGINE (NORMAL MODE), OPERATION, Subaru Select Monitor.>

NOTE:

If ignition timing is out of standard, check the ignition control system. Refer to "Engine Control System". <Ref. to EN(H6DO)(diag)-2, Basic Diagnostic Procedure.>

Ignition timing [BTDC/rpm]:

Standard

$15^{\circ} \pm 8^{\circ} / 700$

2. METHOD WITH TIMING LIGHT

1) Before checking the ignition timing, check the following item:

- (1) Check the air cleaner element is free from clogging, spark plugs are in good condition, and hoses are connected properly.
- (2) Check the malfunction indicator light does not illuminate.

2) Warm up the engine.

3) Stop the engine, and turn the ignition switch to OFF.

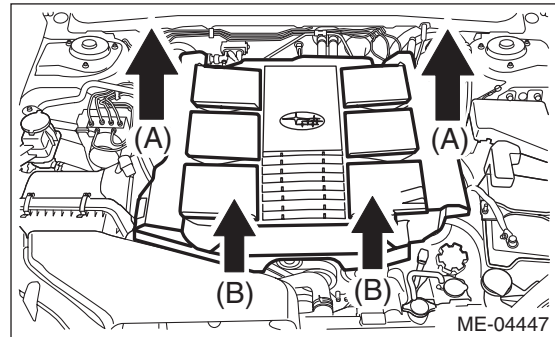
4) Remove the collector cover.

NOTE:

Follow these procedures for removal of the collector cover.

- (1) Lift up the rear side holding two positions (A).

- (2) Lift up the front side holding two positions (B) while moving it in the forward direction of the vehicle.



- 5) Disconnect the ground cable from battery.
- 6) Remove the air intake duct. <Ref. to IN(H6DO)-8, REMOVAL, Air Intake Duct.>
- 7) Disconnect the connector from mass air flow and intake air temperature sensor.
- 8) Remove the air cleaner case and element.
- 9) Connect the timing light to the power wire of #1 ignition coil.
- 10) Install the connectors of air cleaner case, element, and the mass air flow and intake air temperature sensor.
- 11) Connect the ground cable to battery.
- 12) Start the engine, turn the timing light to the crank pulley, and check the ignition timing through the chain cover gauge.

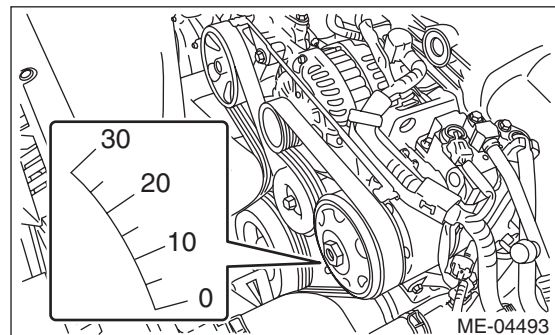
NOTE:

If ignition timing is out of standard, check the ignition control system. Refer to "Engine Control System". <Ref. to EN(H6DO)(diag)-2, Basic Diagnostic Procedure.>

Ignition timing [BTDC/rpm]:

Standard

$15^{\circ} \pm 8^{\circ} / 700$



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