# 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 MON-ITOR

- 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(H4DOTC)(diag)-37, 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(H4DOTC)(diag)-2, Basic Diagnostic Procedure.>

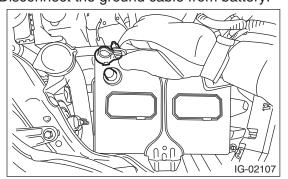
## *Ignition timing [BTDC/rpm]:*

Standard

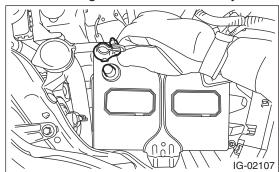
15°±10°/700

## 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.
- 5) Disconnect the ground cable from battery.



- 6) Remove the air intake duct. <Ref. to IN(H4DOTC)-12, REMOVAL, Air Intake Duct.>
- 7) Remove the air cleaner case. <Ref. to IN(H4DOTC)-8, REMOVAL, Air Cleaner Case.>
- 8) Connect the timing light to the power wire of #1 ignition coil.
- 9) Install the air cleaner case. <Ref. to IN(H4DOTC)-8, INSTALLATION, Air Cleaner Case.>
- 10) Connect the ground cable to battery.



11) Start the engine, turn the timing light to the crank pulley, and check the ignition timing through the timing belt cover gauge.

#### NOTE:

If ignition timing is out of standard, check the ignition control system. Refer to "Engine Control System". <Ref. to EN(H4DOTC)(diag)-2, Basic Diagnostic Procedure.>

# Ignition timing [BTDC/rpm]: Standard

15°±10°/700

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