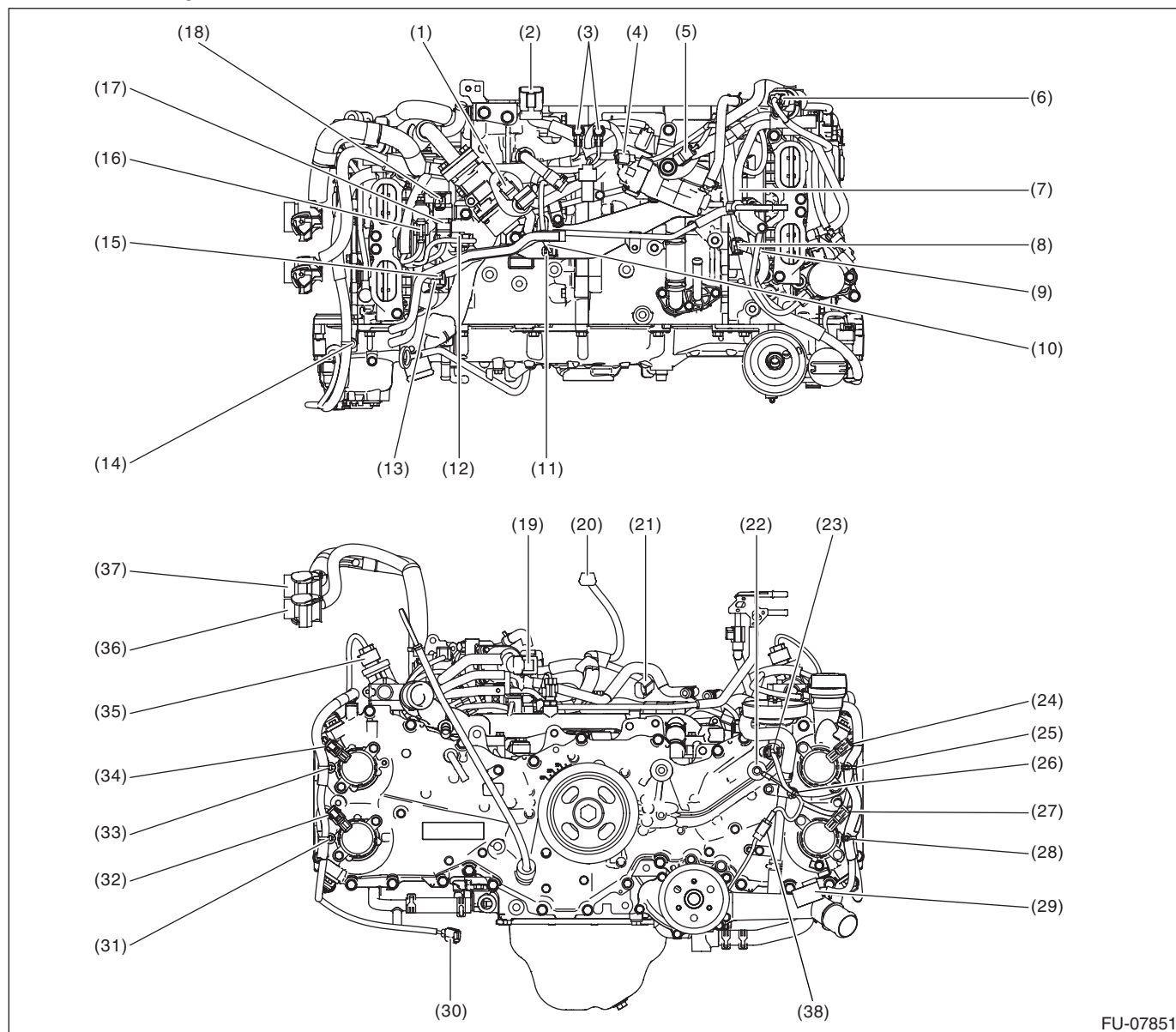


10.Engine Wiring Harness

A: REMOVAL

- 1) Release the fuel pressure. <Ref. to FU(H4DOTC)-151, RELEASING OF FUEL PRESSURE, PROCEDURE, Fuel.>
 - 2) Disconnect the ground cable from battery.
 - 3) Open the fuel filler lid and remove the fuel filler cap.
 - 4) Remove the intake manifold. <Ref. to FU(H4DOTC)-19, REMOVAL, Intake Manifold.>
 - 5) Disconnect the connector from the engine.
- Structural diagram 1



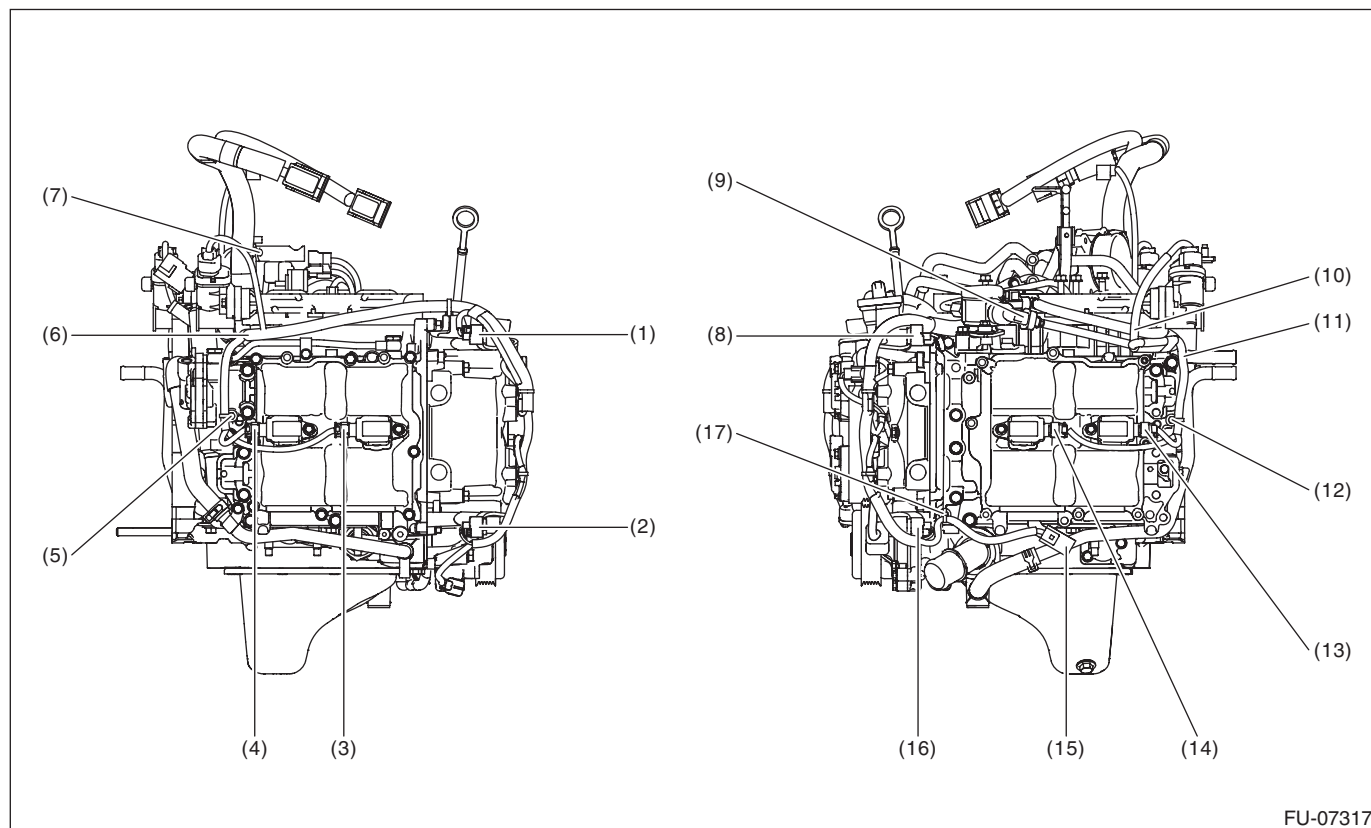
FU-07851

- (1) Knock sensor RH
- (2) Engine harness connector (16P)
- (3) Engine ground (2 locations)
- (4) Crankshaft position sensor
- (5) Knock sensor LH
- (6) Tumble generator valve actuator LH
- (7) Fuel injector (#4)
- (8) Fuel injector (#2)
- (9) White tape
- (10) White tape
- (11) Engine coolant temperature sensor
- (12) Fuel pressure sensor
- (13) White tape
- (14) Remove clip from screw hole.
- (15) Fuel injector (#1)
- (16) Purge control solenoid valve (#2) (black connector)
- (17) Purge control solenoid valve (#1) (blue connector)
- (18) Fuel injector (#3)
- (19) EGR valve
- (20) Manifold absolute pressure and intake air temperature sensor
- (21) Throttle position sensor
- (22) Oil pressure switch
- (23) Engine oil temperature sensor
- (24) Intake oil control solenoid LH
- (25) Remove clip from screw hole.
- (26) Remove clip from the round hole of stay.
- (27) Exhaust oil control solenoid LH
- (28) Remove clip from screw hole.
- (29) Front oxygen (A/F) sensor (Secured to the front oxygen (A/F) sensor bracket.)
- (30) Wastegate solenoid
- (31) Remove clip from screw hole.
- (32) Exhaust oil control solenoid RH
- (33) Remove clip from screw hole.
- (34) Intake oil control solenoid RH
- (35) Tumble generator valve actuator RH
- (36) Engine harness connector (32P)
- (37) Engine harness connector (48P)
- (38) Oil level sensor connector

Engine Wiring Harness

FUEL INJECTION (FUEL SYSTEMS)

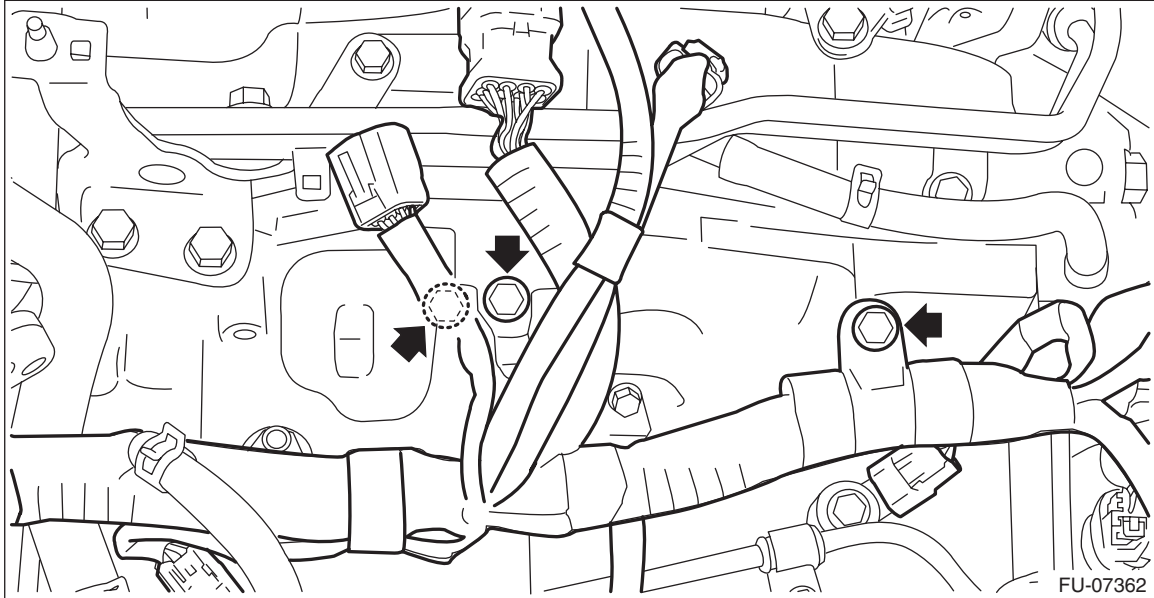
- Structural diagram 2



FU-07317

- (1) Intake camshaft position sensor RH
- (2) Exhaust camshaft position sensor RH
- (3) Ignition coil No. 1
- (4) Ignition coil No. 3
- (5) Remove clip from screw hole.
- (6) Tumble generator valve RH
- (7) Remove clip from the round hole.
- (8) Intake camshaft position sensor LH
- (9) High-pressure fuel pump
- (10) Pull out from the outside of the fuel tube.
- (11) Pull out from the lower side of the tumble generator valve LH.
- (12) Remove clip from screw hole.
- (13) Ignition coil No. 4
- (14) Ignition coil No. 2
- (15) Oxygen sensor
- (16) Exhaust camshaft position sensor LH
- (17) Remove clip from screw hole.

6) Remove the engine wiring harness.



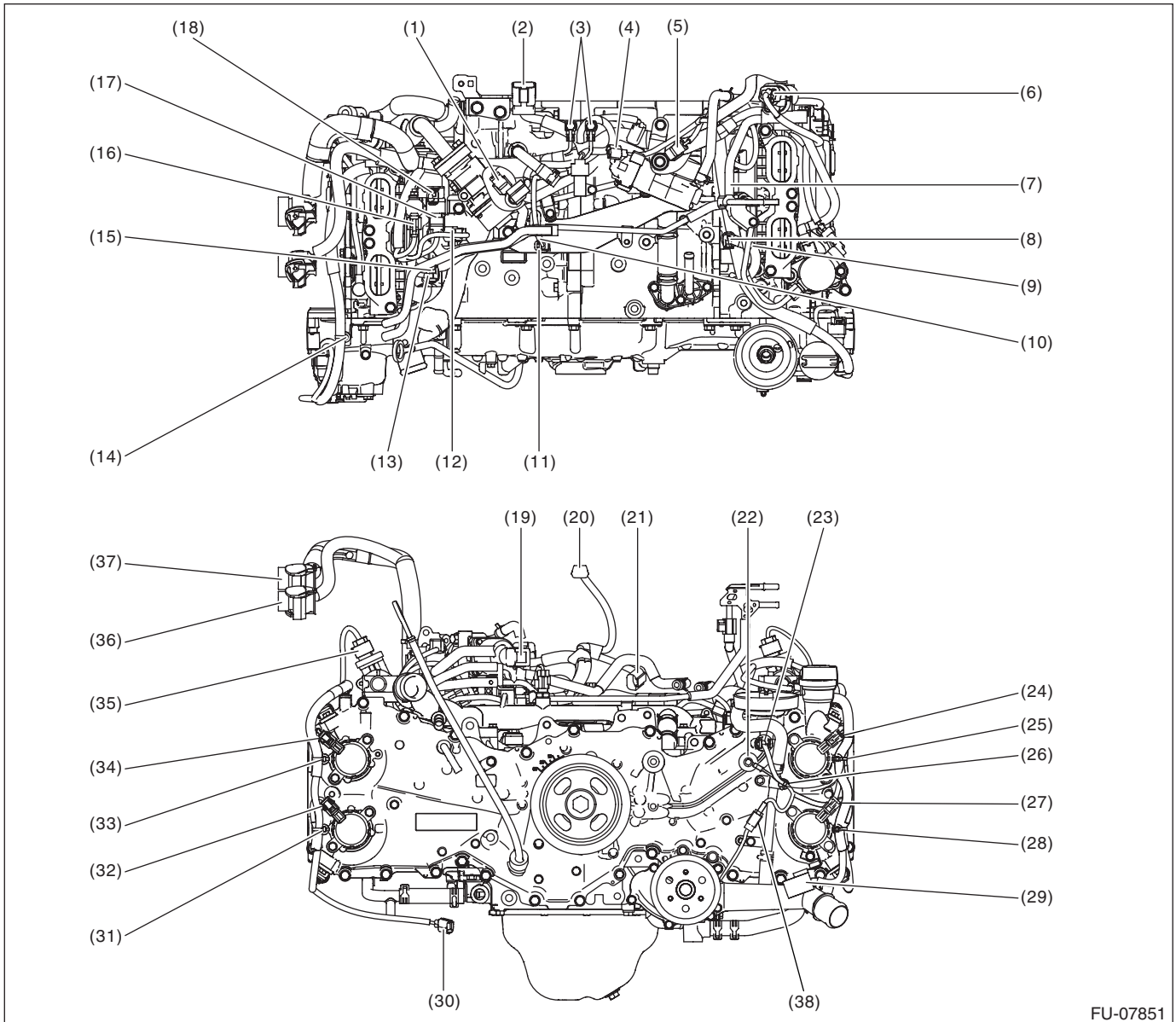
Engine Wiring Harness

FUEL INJECTION (FUEL SYSTEMS)

B: INSTALLATION

1) Set the engine wiring harness to the engine, and connect the connector.

- Structural diagram 1



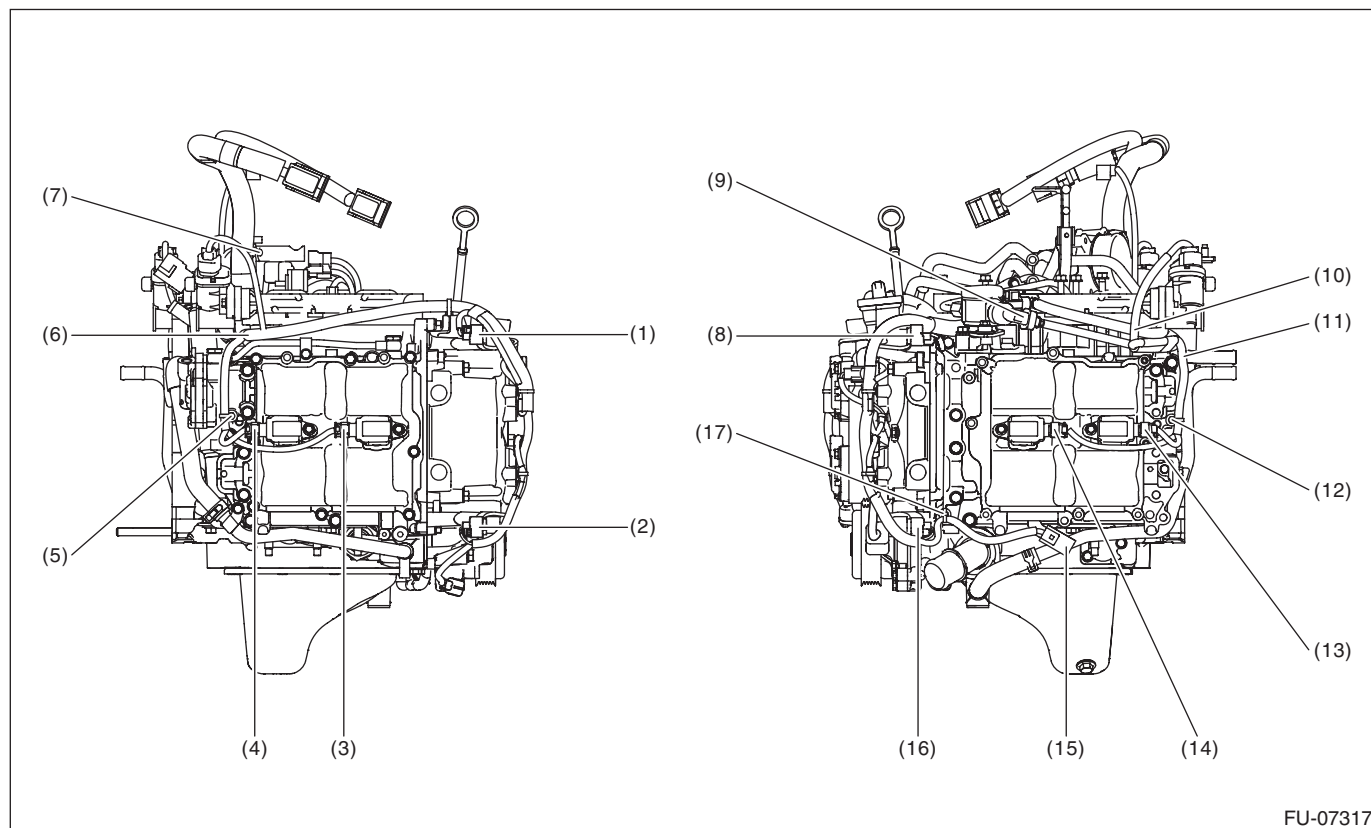
FU-07851

- (1) Knock sensor RH (Routed under the insulator.)
- (2) Engine harness connector (16P) (Secured to engine hanger.)
- (3) Engine ground (2 places) (During installation, let the terminal tip come in contact with the block step.)
- (4) Crankshaft position sensor
- (5) Knock sensor LH (Routed under the insulator.)
- (6) Tumble generator valve actuator LH
- (7) Fuel injector (#4) (Routed under the insulator.)
- (8) Fuel injector (#2) (Routed under the insulator.)
- (9) White tape
- (10) White tape
- (11) Engine coolant temperature sensor
- (12) Fuel pressure sensor
- (13) White tape
- (14) Secure the clip to the screw hole.
- (15) Fuel injector (#1) (Routed under the insulator.)
- (16) Purge control solenoid valve (#2) (black connector)
- (17) Purge control solenoid valve (#1) (blue connector)
- (18) Fuel injector (#3) (Routed under the insulator.)
- (19) EGR valve
- (20) Manifold absolute pressure and intake air temperature sensor
- (21) Throttle position sensor
- (22) Oil pressure switch
- (23) Engine oil temperature sensor
- (24) Intake oil control solenoid LH
- (25) Secure the clip to the screw hole.
- (26) Secure the clip to the round hole of stay.
- (27) Exhaust oil control solenoid LH
- (28) Secure the clip to the screw hole.
- (29) Front oxygen (A/F) sensor (Secured to the front oxygen (A/F) sensor bracket.)
- (30) Wastegate solenoid
- (31) Secure the clip to the screw hole.
- (32) Exhaust oil control solenoid RH
- (33) Secure the clip to the screw hole.
- (34) Intake oil control solenoid RH
- (35) Tumble generator valve actuator RH
- (36) Engine harness connector (32P)
- (37) Engine harness connector (48P)
- (38) Oil level sensor connector

Engine Wiring Harness

FUEL INJECTION (FUEL SYSTEMS)

- Structural diagram 2

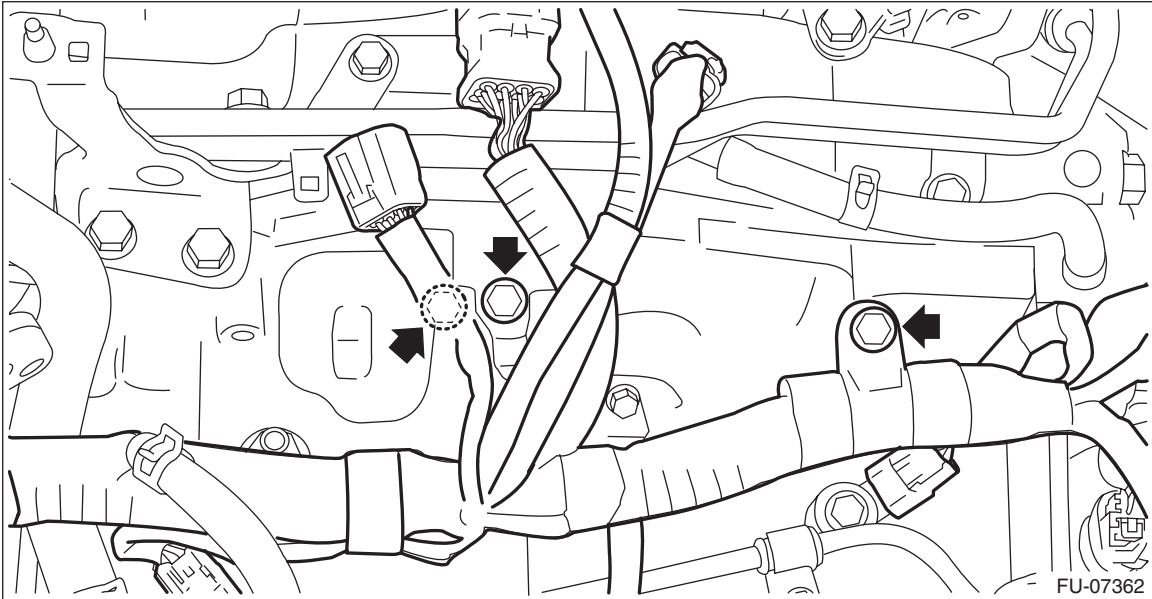


- (1) Intake camshaft position sensor RH
- (2) Exhaust camshaft position sensor RH
- (3) Ignition coil No. 1
- (4) Ignition coil No. 3
- (5) Secure the clip to the screw hole.
- (6) Route under the tumble generator valve.
- (7) Secure the clip to the round hole.
- (8) Intake camshaft position sensor LH
- (9) High-pressure fuel pump
- (10) Route outside of the fuel tube.
- (11) Route under the tumble generator valve.
- (12) Secure the clip to the screw hole.
- (13) Ignition coil No. 4
- (14) Ignition coil No. 2
- (15) Oxygen sensor (Secured to the heater pipe.)
- (16) Exhaust camshaft position sensor LH
- (17) Secure the clip to the screw hole.

2) Install the engine wiring harness.

Tightening torque:

19 N·m (1.9 kgf-m, 14.0 ft-lb)



3) Install the intake manifold. <Ref. to FU(H4DOTC)-29, INSTALLATION, Intake Manifold.>

4) Connect the battery ground terminal.

C: INSPECTION

- 1) Check that the engine wiring harness does not have deformation, cracks and any other damage.
- 2) Check the engine wiring harness for contamination or clogging.