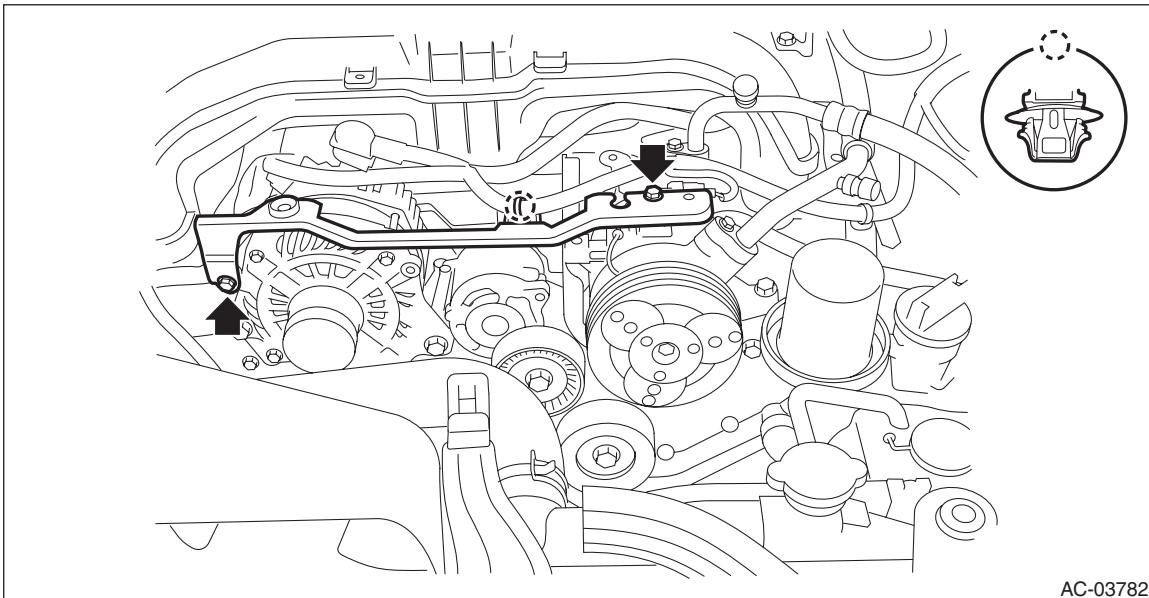


15.Compressor

A: REMOVAL

1. GASOLINE ENGINE MODEL

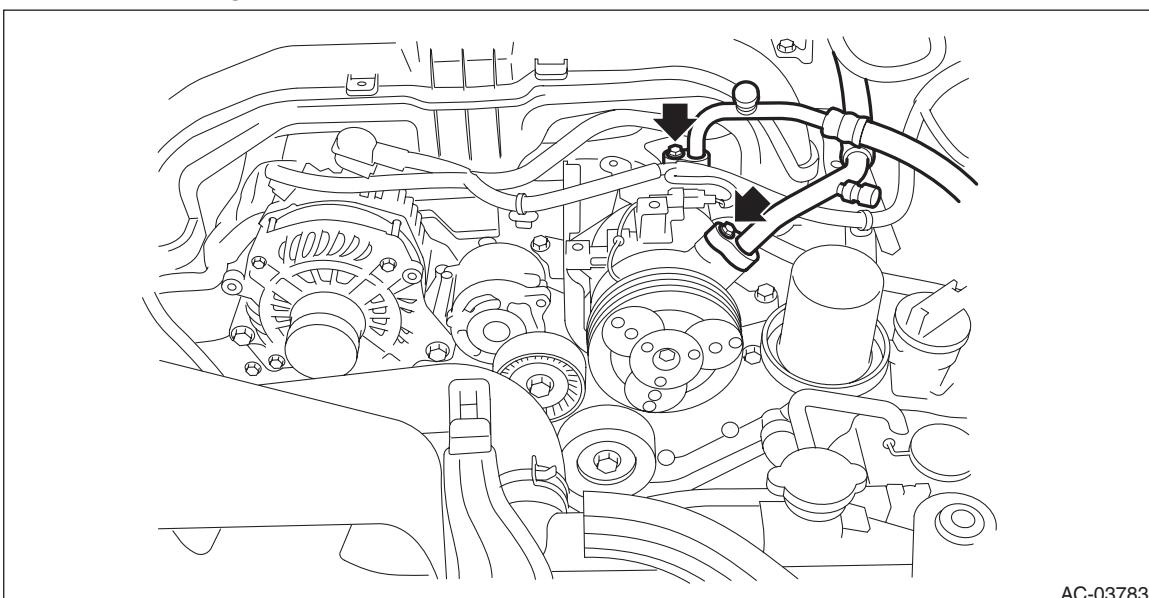
- 1) Perform compressor oil return operation. <Ref. to AC-37, PROCEDURE, Compressor Oil.>
- 2) Turn the A/C switch to OFF and stop the engine.
- 3) Using the refrigerant recovery system, discharge refrigerant. <Ref. to AC-28, PROCEDURE, Refrigerant Recovery Procedure.>
- 4) Disconnect the ground cable from battery.
- 5) Remove the V-belts. <Ref. to ME(H4DO(w/o HEV))-122, REMOVAL, V-belt.>
- 6) Remove the harness clips and bolts, and remove the V-belt cover bracket.



- 7) Remove the bolt, and detach the hose - pressure suction and the hose - pressure discharge.

CAUTION:

Seal the disconnected hose and engaging part of compressor with a plug or vinyl tape to prevent foreign matter from entering.



Compressor

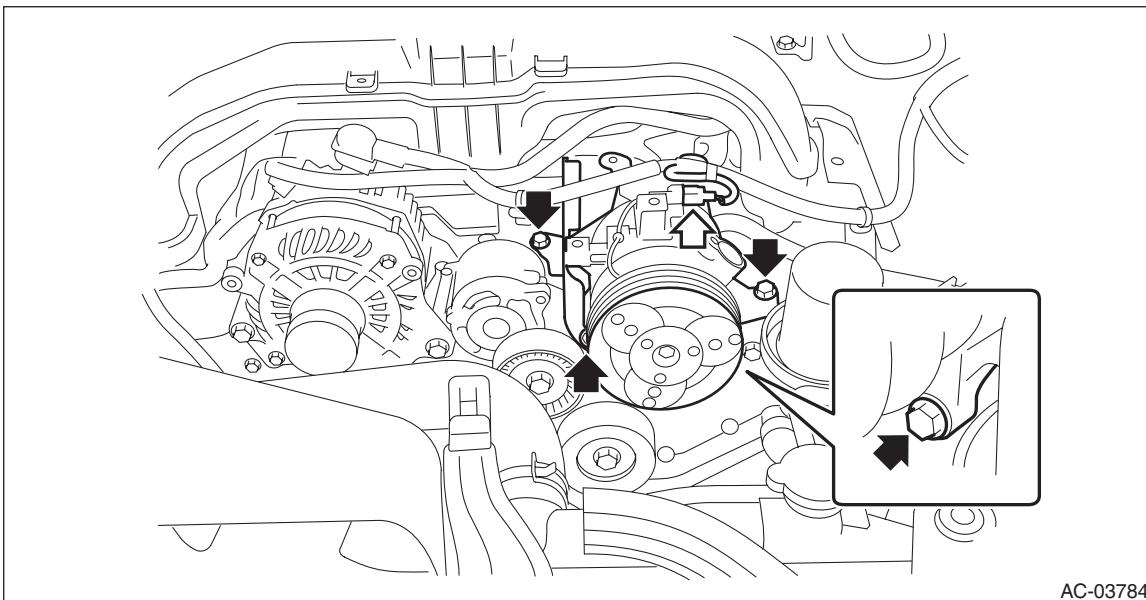
HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

8) Remove the compressor assembly.

- (1) Disconnect the connector.
- (2) Remove the bolts and remove the compressor assembly.

NOTE:

Tighten the engine hanger together with the compressor assembly.



2. HEV MODEL

- 1) Perform compressor oil return operation. <Ref. to AC-37, PROCEDURE, Compressor Oil.>
- 2) Turn the A/C switch to OFF, and turn the ignition switch to OFF.
- 3) Using the refrigerant recovery system, discharge refrigerant. <Ref. to AC-28, PROCEDURE, Refrigerant Recovery Procedure.>
- 4) Disconnect the ground cable from battery. <Ref. to NT-5, BATTERY, NOTE, Note.>

NOTE:

For the 12 volt engine restart battery, disconnect the ground terminal from 12V engine restart battery sensor.

- 5) Remove the brake vacuum pump and bracket. <Ref. to BR-80, REMOVAL, Brake Vacuum Pump.>
- 6) Loosen the V-belt, and remove the V-belt from the compressor pulley. <Ref. to ME(H4DO(w/o HEV))-124, HEV MODEL, REMOVAL, V-belt.>

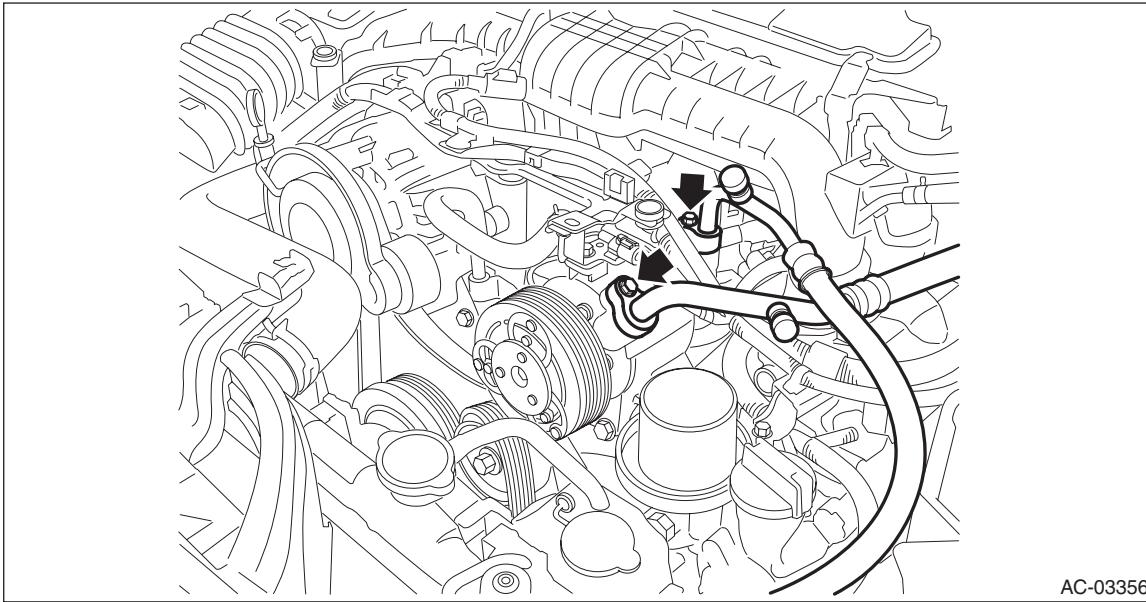
Compressor

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

7) Remove the bolt, and detach the hose - pressure suction and the hose - pressure discharge.

CAUTION:

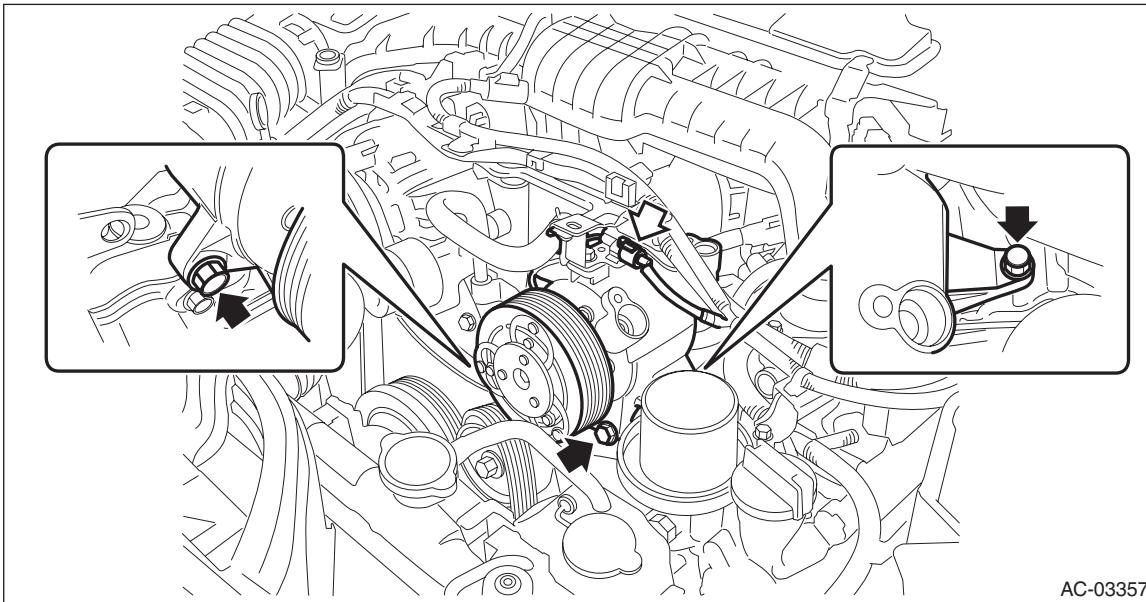
Seal the disconnected hose and engaging part of compressor assembly with a plug or vinyl tape to prevent foreign matter from entering.



8) Remove the compressor assembly.

(1) Disconnect the connector.

(2) Remove the bolts and remove the compressor assembly.



Compressor

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

B: INSTALLATION

CAUTION:

- Replace the O-rings on the hose - pressure suction and discharge with new parts, and then apply compressor oil.
- After replacing the compressor assembly, adjust the amount of the compressor oil. <Ref. to AC-37, ADJUSTMENT, Compressor Oil.>

1) Install each part in the reverse order of removal.

Tightening torque:

Air conditioning unit: <Ref. to AC-12, AIR CONDITIONING UNIT, COMPONENT, General Description.>

Compressor: <Ref. to AC-14, COMPRESSOR, COMPONENT, General Description.>

V-belt cover bracket and generator bracket: <Ref. to SC(H4DO(w/o HEV))-5, GENERATOR BRACKET, COMPONENT, General Description.>

2) Charge refrigerant. <Ref. to AC-30, PROCEDURE, Refrigerant Charging Procedure.>

C: INSPECTION

1. MAGNET CLUTCH CLEARANCE INSPECTION

1) Check the clearance of entire circumference around the drive plate and pulley.

Specification:

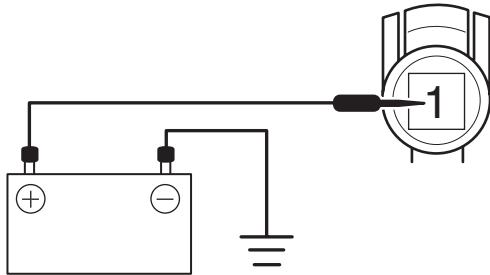
0.3 — 0.6 mm (0.0118 — 0.0236 in)

2) Replace the compressor assembly if the inspection result is not within the standard.

2. MAGNET CLUTCH OPERATION INSPECTION

UNIT INSPECTION

1) Check the magnet clutch operation when battery voltage is applied to the compressor terminal.

Terminal No.	Inspection conditions	Specification	Connection diagram
1 (+) — chassis ground (-)	Battery connection between compressor terminal and chassis ground	Engagement of magnet clutch	 AC-02772

2) If it does not operate normally, replace the compressor assembly.