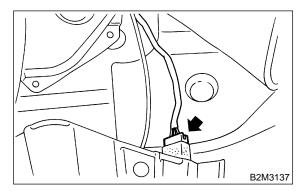
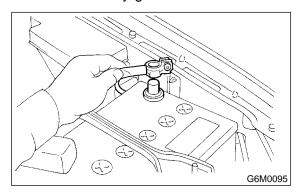
7. Engine Assembly S143079

A: REMOVAL S143079A18

- 1) Set the vehicle on lift arms.
- 2) Open front hood fully and support with stay.
- 3) Raise rear seat, and turn floor mat up.
- 4) Release fuel pressure. <Ref. to FU(H6)-49, RELEASING OF FUEL PRESSURE, OPERATION, Fuel.>
 - (1) Disconnect connector of fuel tank cord from the nearest harness.

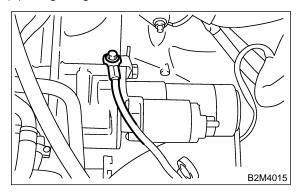


- (2) Start the engine, and run until it stalls.
- (3) After the engine stalls, crank it for five seconds more.
- (4) Turn ignition switch to "OFF".
- 5) Remove filler cap.
- 6) Disconnect battery ground terminal.

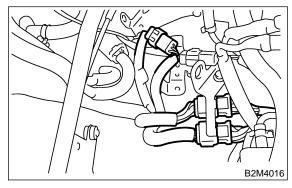


- 7) Remove air intake duct, air cleaner case and air intake chamber.
- <Ref. to IN(H6)-7, REMOVAL, Air Intake Duct.>, <Ref. to IN(H6)-6, REMOVAL, Air Intake Chamber.> and <Ref. to IN(H6)-5, REMOVAL, Air Cleaner.>
- 8) Lift up the vehicle.
- 9) Remove under cover.
- 10) Remove radiator from vehicle. <Ref. to CO(H6)-23, REMOVAL, Radiator.>
- 11) Remove V-belt. <Ref. to ME(H6)-31, REMOVAL, V-belt.>
- 12) Disconnect A/C pressure hoses from A/C compressor. <Ref. to AC-37, REMOVAL, Flexible Hose.>

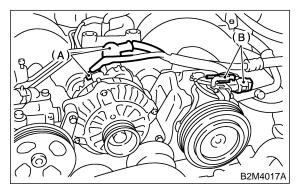
- 13) Disconnect the following connectors and cables.
 - (1) Engine ground terminal



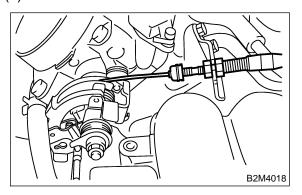
(2) Engine harness connectors



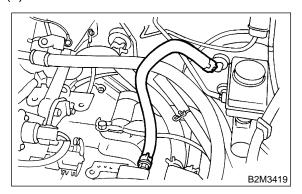
(3) Generator connector, terminal and A/C compressor connector



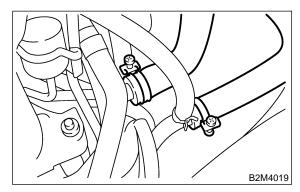
- (A) A/C compressor connector
- (B) Generator connector and terminal
- (4) Accelerator cable



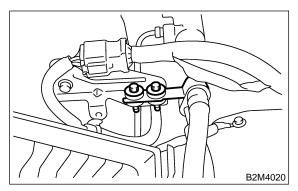
- 14) Disconnect the following hoses.
 - (1) Brake booster vacuum hose



(2) Heater inlet outlet hose



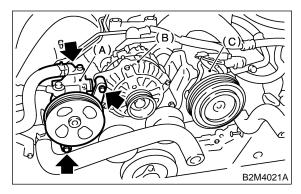
- 15) Remove power steering pump from bracket.
 - (1) Remove pipe with bracket.



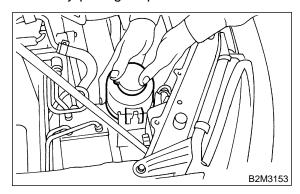
(2) Remove bolts which install power steering pump bracket.

CAUTION:

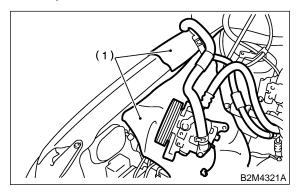
Do not separate the hose and the pipe from the pump body.



- (A) Power steering pump
- (B) Generator
- (C) A/C compressor
- (3) Remove power steering tank from the bracket by pulling it upward.

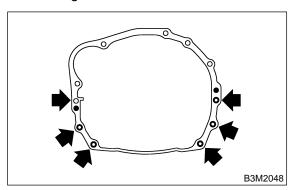


(4) Place power steering pump on the right side wheel apron.

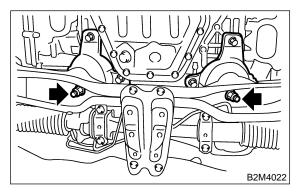


- (1) Cloth
- 16) Remove front exhaust pipe. <Ref. to EX(H6)-5, REMOVAL, Front Exhaust Pipe.>

17) Remove nuts which hold lower side of transmission to engine.

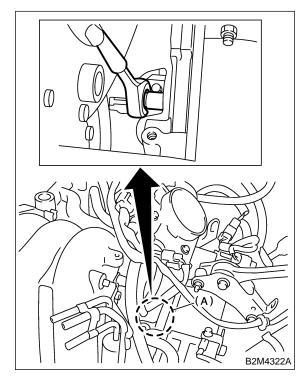


18) Remove nuts which install front cushion rubber onto front crossmember.

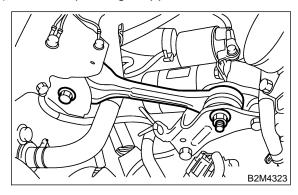


- 19) Separate torque converter clutch from drive plate.
 - (1) Lower the vehicle.
 - (2) Remove service hole plug (A).
 - (3) Remove bolts which hold torque converter clutch to drive plate.
 - (4) Remove other bolts while rotating the engine using ST.

ST 499977100 CRANK PULLEY WRENCH



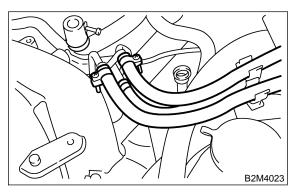
20) Remove pitching stopper.



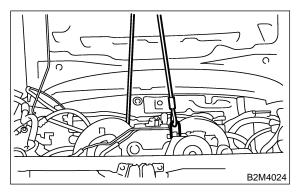
21) Disconnect fuel delivery hose, return hose and evaporation hose.

CAUTION:

- Disconnect hose with its end wrapped with cloth to prevent fuel from splashing.
- Catch fuel from hose into container.



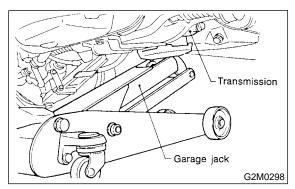
22) Support engine with a lifting device and wire ropes.



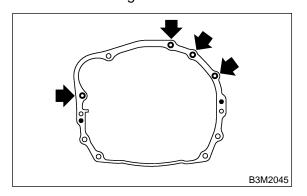
23) Support transmission with a garage jack.

CAUTION:

Before moving engine away from transmission, check to be sure no work has been overlooked. Doing this is very important in order to facilitate re-installation and because transmission lowers under its own weight.

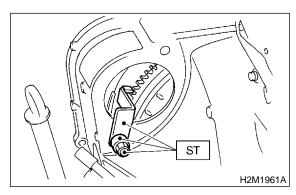


- 24) Separation of engine and transmission.
 - (1) Remove starter. <Ref. to SC(H6)-6, REMOVAL, Starter.>
 - (2) Remove bolts which hold upper side of transmission to engine.



25) Install ST to torque converter clutch case. (AT model)

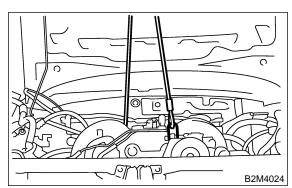
ST 498277200 STOPPER SET



- 26) Remove engine from vehicle.
 - (1) Slightly raise engine.
 - (2) Raise transmission with garage jack.
 - (3) Move engine horizontally until main shaft is withdrawn from clutch cover.
 - (4) Slowly move engine away from engine compartment.

CAUTION:

Be careful not to damage adjacent parts or body panels with crank pulley, oil level gauge, etc.



27) Remove front cushion rubbers.

B: INSTALLATION S143079A11

1) Install front cushion rubbers.

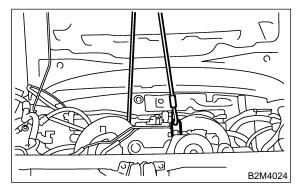
Tightening torque:

34 N·m (3.5 kgf-m, 25.3 ft-lb)

2) Position engine in engine compartment and align it with transmission.

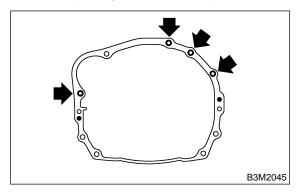
CAUTION:

Be careful not to damage adjacent parts or body panels with crank pulley, oil level gauge, etc.

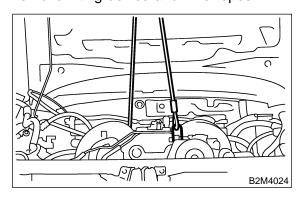


3) Tighten bolts which hold upper side of transmission to engine.

Tightening torque: 50 N⋅m (5.1 kgf-m, 36.9 ft-lb)



4) Remove lifting device and wire ropes.

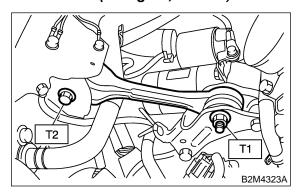


5) Remove garage jack.

6) Install pitching stopper.

Tightening torque:

T1: 49 N·m (5.0 kgf-m, 36.2 ft-lb) T2: 57 N·m (5.8 kgf-m, 42 ft-lb)



7) Remove ST from torque converter clutch case.

NOTE:

Be careful not to drop the ST into the torque converter clutch case when removing ST.

ST 498277200 STOPPER SET

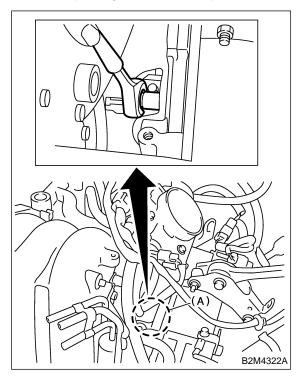
- 8) Install starter. <Ref. to SC(H6)-6, INSTALLATION, Starter.>
- 9) Install torque converter clutch onto drive plate.
 - (1) Tighten bolts which hold torque converter clutch to drive plate.
 - (2) Tighten other bolts while rotating the engine by using ST.

CAUTION:

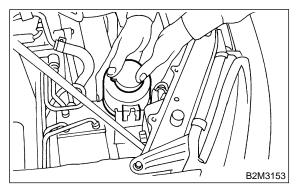
Be careful not to drop bolts into torque converter clutch housing.

ST 499977100 CRANK PULLEY WRENCH

Tightening torque: 25 N·m (2.5 kgf-m, 18.1 ft-lb)

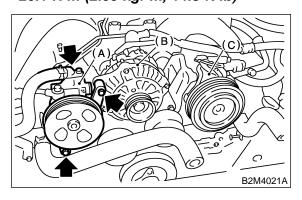


- (3) Clog plug (A) onto service hole.
- 10) Install power steering pump on bracket.
 - (1) Install power steering tank on bracket.

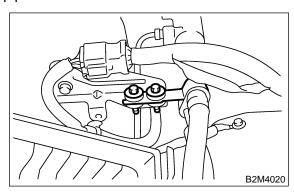


(2) Install power steering pump on bracket, and tighten bolts.

Tightening torque: 20.1 N·m (2.05 kgf-m, 14.8 ft-lb)

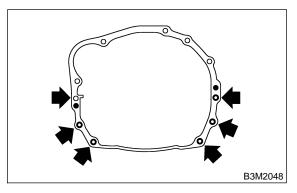


(3) Tighten bolt which installs power steering pipe bracket.



11) Tighten nuts which hold lower side of transmission to engine.

Tightening torque: 50 N⋅m (5.1 kgf-m, 36.9 ft-lb)



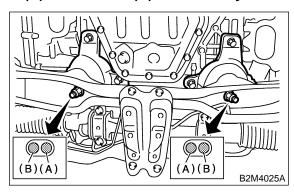
12) Tighten nuts which install front cushion rubber onto crossmember.

Tightening torque:

74 N·m (7.5 kgf-m, 54 ft-lb)

CAUTION:

Make sure the front cushion rubber mounting bolts (A) and locator (B) are securely installed.

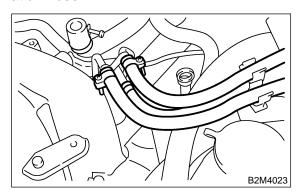


13) Install front exhaust pipe.

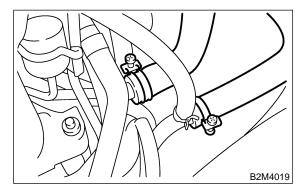
<Ref. to EX(H6)-6, INSTALLATION, Front Exhaust Pipe.>

14) Connect the following hoses.

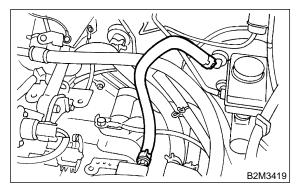
(1) Fuel delivery hose, return hose and evaporation hose



(2) Heater inlet and outlet hoses

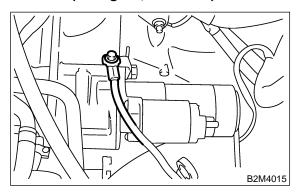


(3) Brake booster vacuum hose

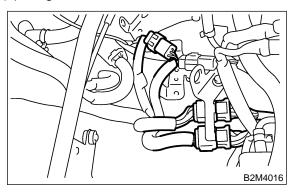


- 15) Connect the following connectors.
 - (1) Engine ground terminals

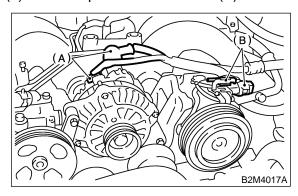
Tightening torque: 14 N⋅m (1.4 kgf-m, 10.1 ft-lb)



(2) Engine harness connectors



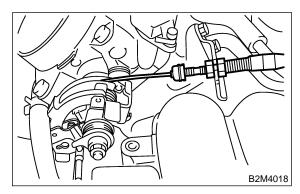
- (3) Alternator connector and terminal (A)
- (4) A/C compressor connectors (B)



16) Connect the following cables.

(1)

Accelerator cable



CAUTION:

After connecting each cable, adjust them.

- 17) Install A/C pressure hoses.
- <Ref. to AC-37, INSTALLATION, Flexible Hose.>
- 18) Install V-belt.
- 19) Install radiator to vehicle. <Ref. to CO(H6)-24, INSTALLATION, Radiator.>
- 20) Install air intake duct, cleaner case and air intake chamber.
- <Ref. to IN(H6)-2, General Description.>
- 21) Install under cover.
- 22) Install battery in the vehicle, and connect cables.
- 23) Fill coolant.

<Ref. to CO(H6)-18, FILLING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.> 24) Check ATF level and correct if necessary. <Ref. to AT-9, Automatic Transmission Fluid.> 25) Charge A/C system with refrigerant. <Ref. to AC-19, OPERATION, Refrigerant Charg-

ing Procedure.> 26) Remove front hood stay, and close front hood.

27) Take off the vehicle from lift arms.

C: INSPECTION S143079A10

- 1) Make sure pipes and hoses are installed correctly.
- 2) Make sure the engine coolant and ATF are at specified levels.