

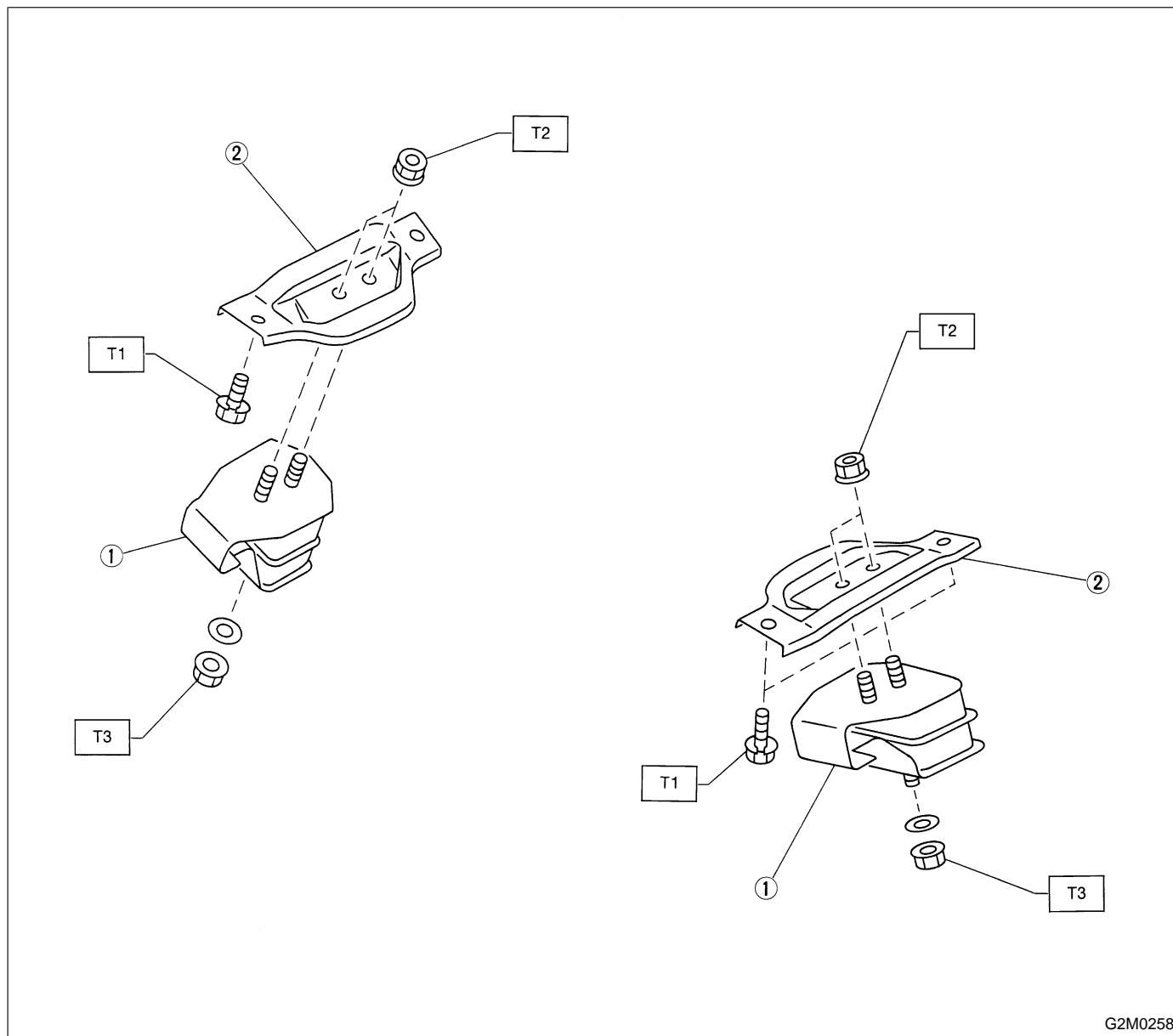
# ENGINE AND TRANSMISSION MOUNTING SYSTEM

# 2-11

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## 1. Engine Mounting



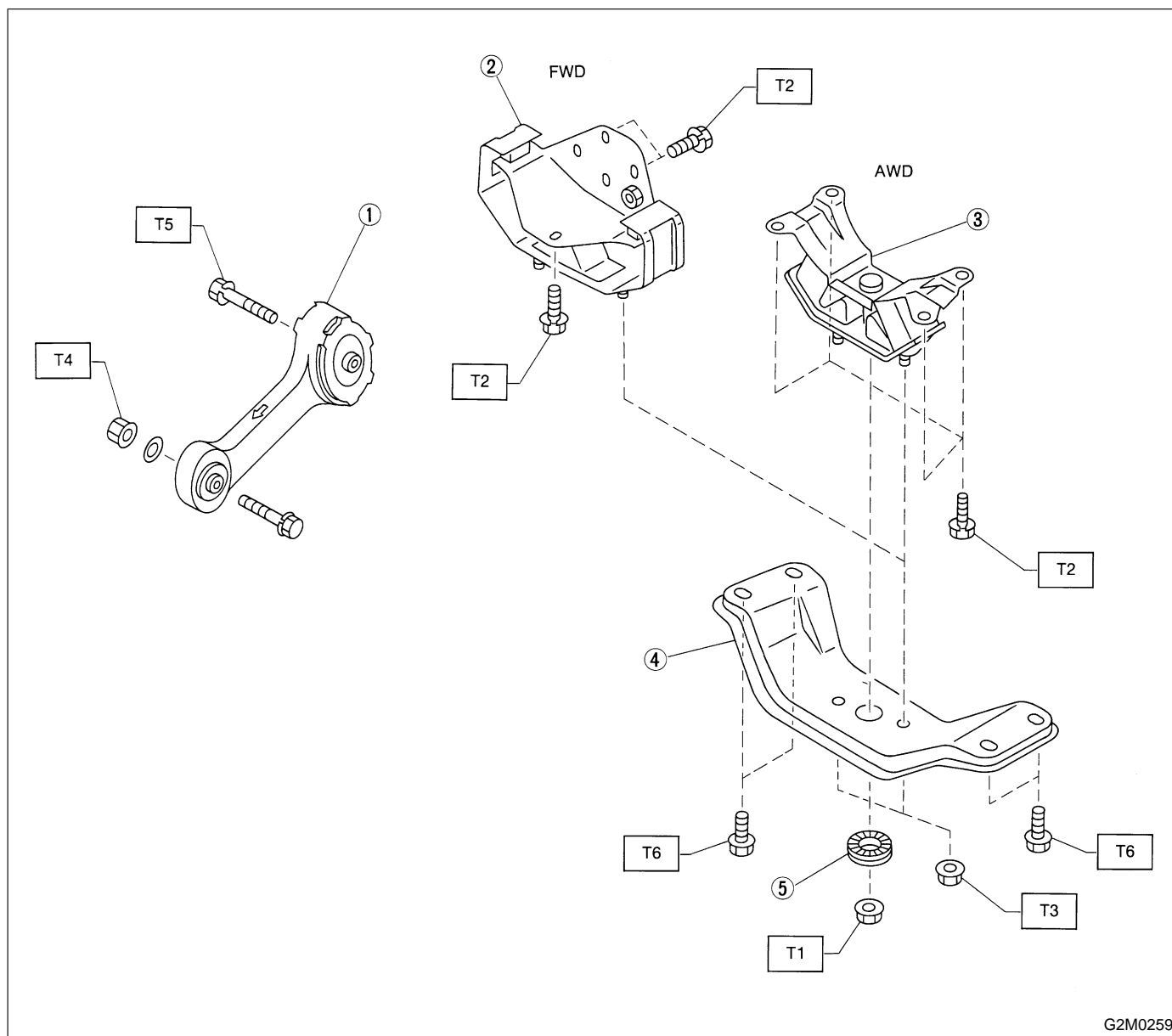
G2M0258

- ① Front cushion rubber
- ② Front engine mounting bracket

**Tightening torque: N·m (kg-m, ft-lb)****T1: 20 — 33 (2.0 — 3.4, 14 — 25)****T2: 31 — 51 (3.2 — 5.2, 23 — 38)****T3: 54 — 83 (5.5 — 8.5, 40 — 61)**

## 2. Transmission Mounting

### 1. MT MODEL



G2M0259

- ① Pitching stopper
- ② Rear cushion rubber (FWD)
- ③ Rear cushion rubber (AWD)
- ④ Rear crossmember
- ⑤ Rubber cushion

#### Tightening torque: N·m (kg·m, ft·lb)

T1: 23 — 36 (2.3 — 3.7, 17 — 27)

T2: 28 — 38 (2.9 — 3.9, 21 — 28)

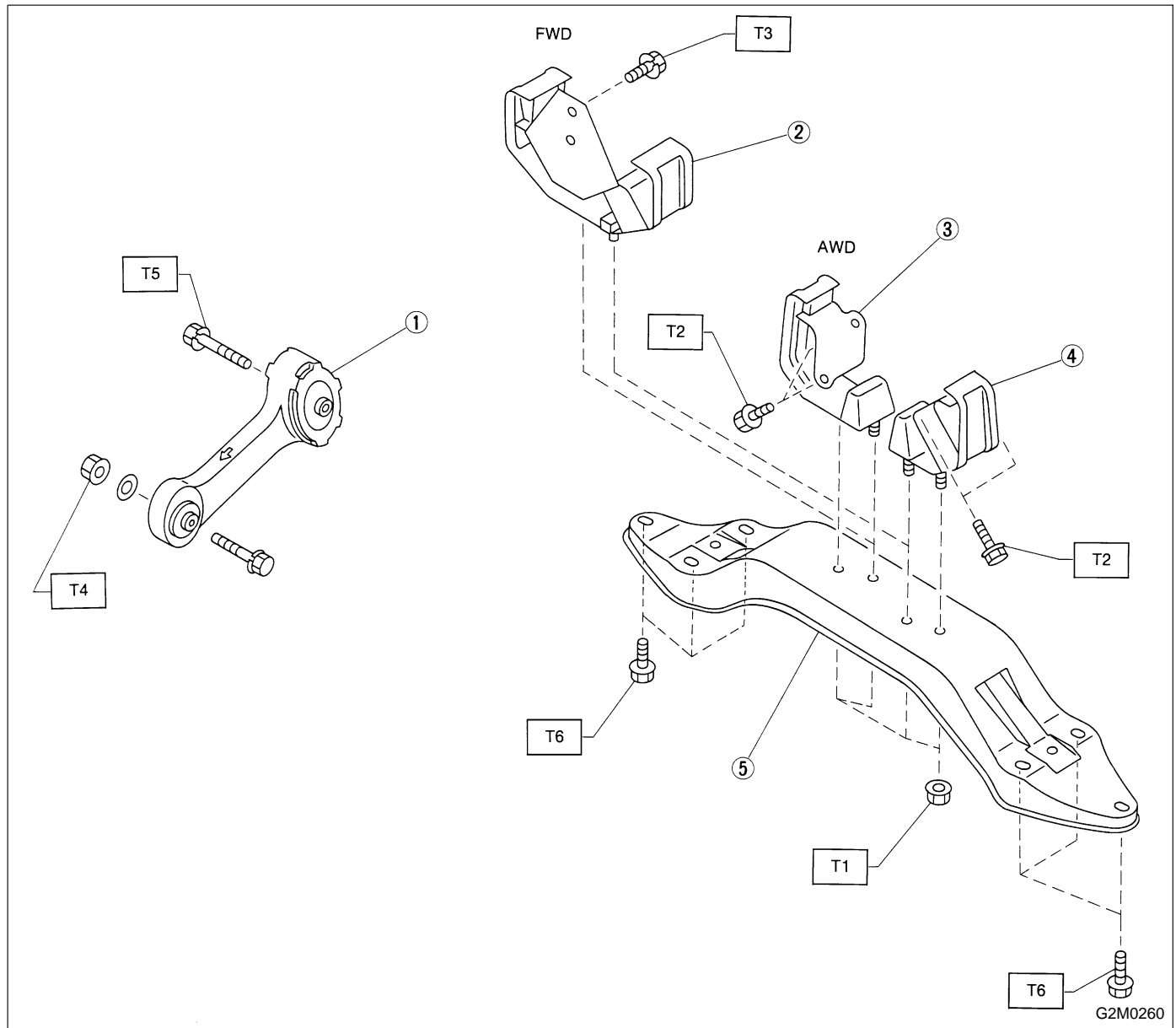
T3: 27 — 47 (2.8 — 4.8, 20 — 35)

T4: 44 — 54 (4.5 — 5.5, 33 — 40)

T5: 47 — 67 (4.8 — 6.8, 35 — 49)

T6: 54 — 83 (5.5 — 8.5, 40 — 61)

## 2. AT MODEL



- ① Pitching stopper
- ② Rear cushion rubber (FWD)
- ③ Rear cushion rubber RH (AWD)
- ④ Rear cushion rubber LH (AWD)
- ⑤ Crossmember

**Tightening torque: N·m (kg·m, ft·lb)**

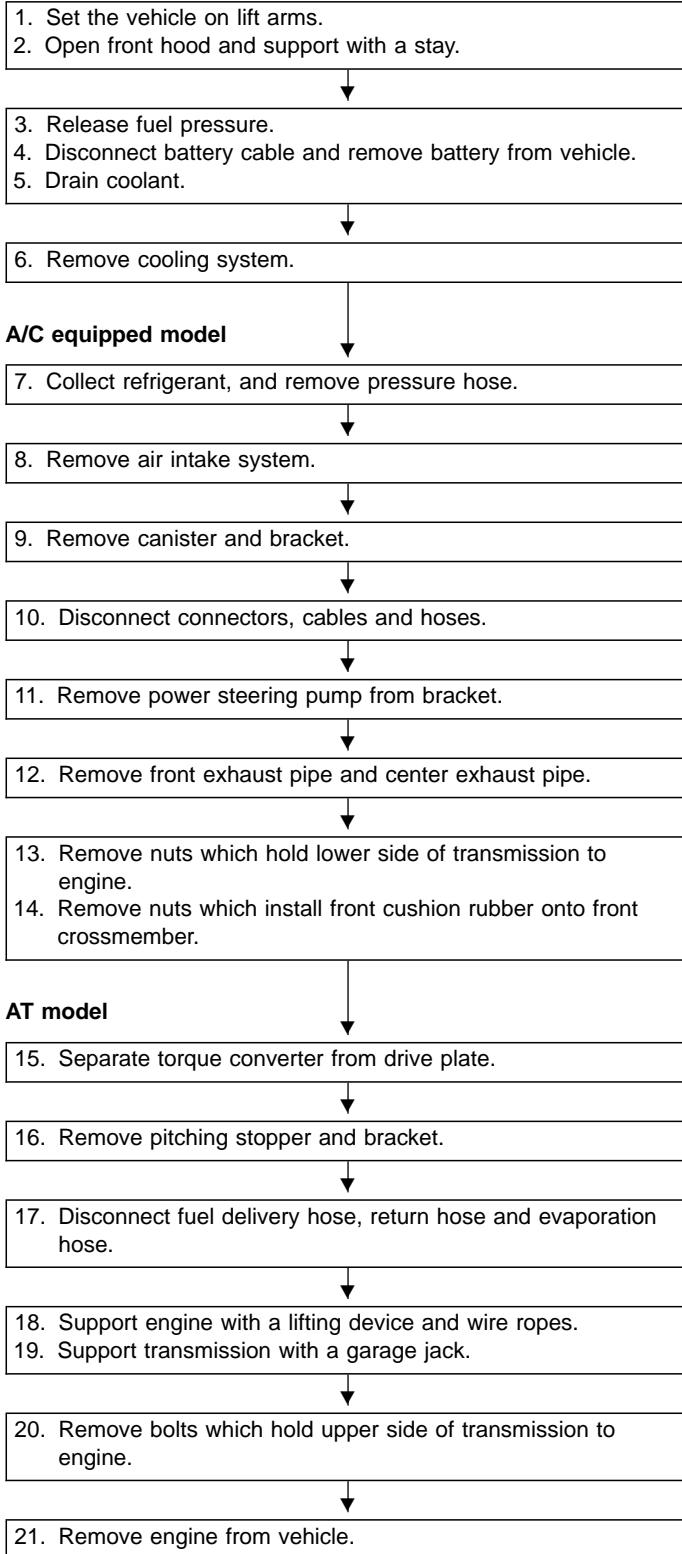
- T1: 13 — 23 (1.3 — 2.3, 9 — 17)**
- T2: 18 — 31 (1.8 — 3.2, 13 — 23)**
- T3: 28 — 38 (2.9 — 3.9, 21 — 28)**
- T4: 44 — 54 (4.5 — 5.5, 33 — 40)**
- T5: 47 — 67 (4.8 — 6.8, 35 — 49)**
- T6: 54 — 83 (5.5 — 8.5, 40 — 61)**

## 1. General Precaution

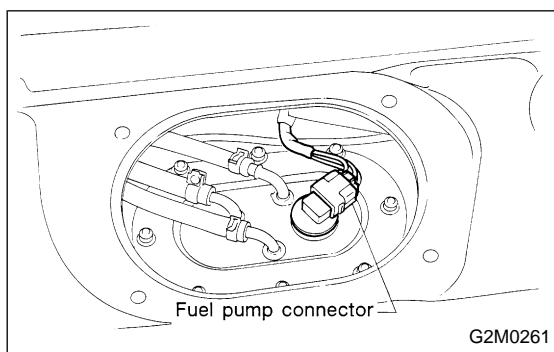
- 1) Remove or install engine and transmission in an area where chain hoists, lifting devices, etc. are available for ready use.
- 2) Be sure not to damage coated surfaces of body panels with tools or stain seats and windows with coolant or oil. Place a cover over fenders, as required, for protection.
- 3) Prior to starting work, prepare the following:  
Service tools, clean cloth, containers to catch coolant and oil, wire ropes, chain hoist, transmission jacks, etc.
- 4) Lift up or lower the vehicle when necessary. Make sure to support the correct positions. (Refer to Chapter 1-3 "General Information".)

## 2. Engine

### A: REMOVAL

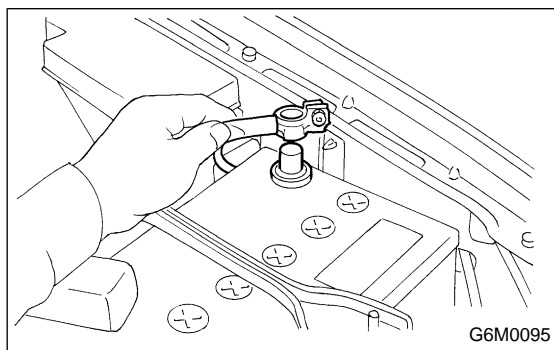


- 1) Set the vehicle on lift arms.
- 2) Open front hood fully and support with stay.

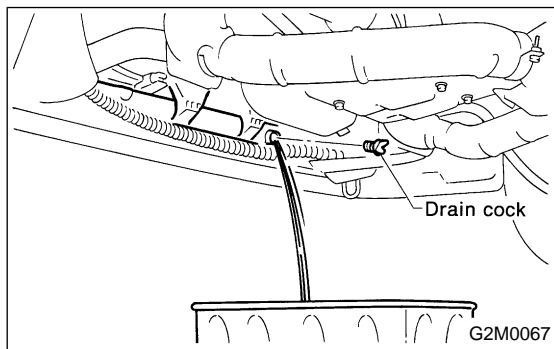


- 3) Release fuel pressure.
  - (1) Disconnect fuel pump connector.
  - (2) Start the engine, and run until it stalls.
  - (3) After the engine stalls, crank it for five seconds more.
  - (4) Turn ignition switch to "OFF".

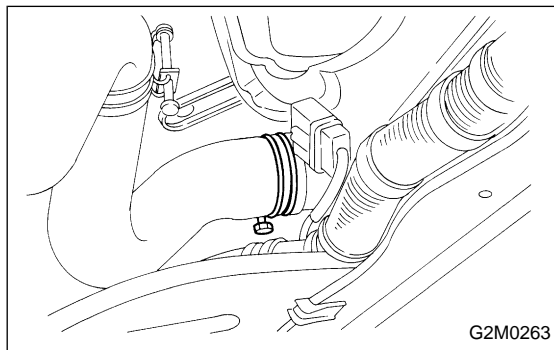
<Ref. to 2-8 [W1A0].>



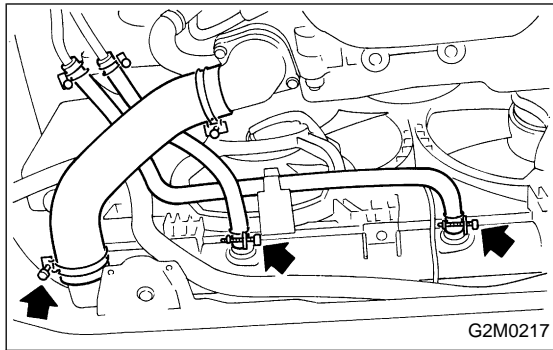
- 4) Disconnect battery cables and remove battery from vehicle.



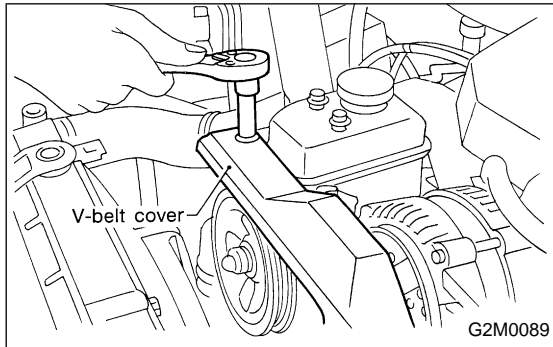
- 5) Drain coolant.  
Set container under the vehicle, and remove drain cock from radiator.



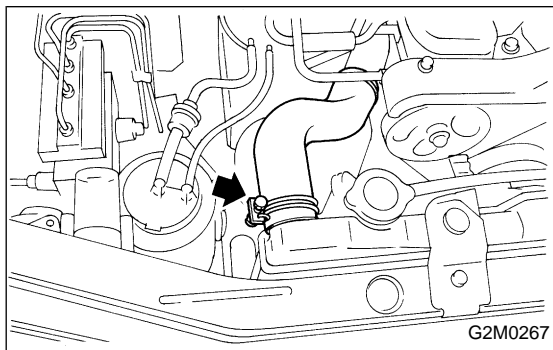
- 6) Remove cooling system.
  - (1) Disconnect radiator fan motor connector.



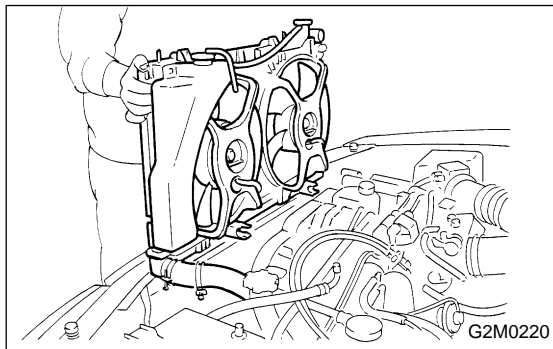
- (2) Disconnect radiator outlet hose from thermostat cover.
- (3) Disconnect ATF cooler hoses from pipes. (AT model)



- (4) Remove V-belt cover.



- (5) Disconnect radiator inlet hose from radiator.

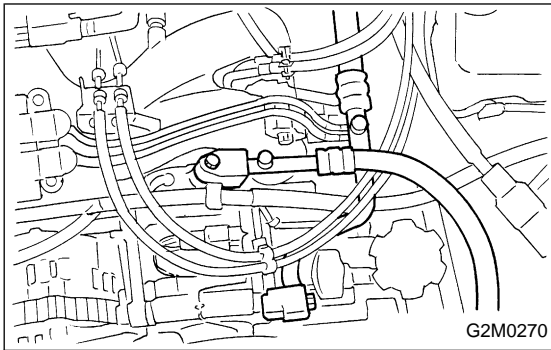


- (6) Remove radiator upper bracket, and remove radiator assembly from vehicle.

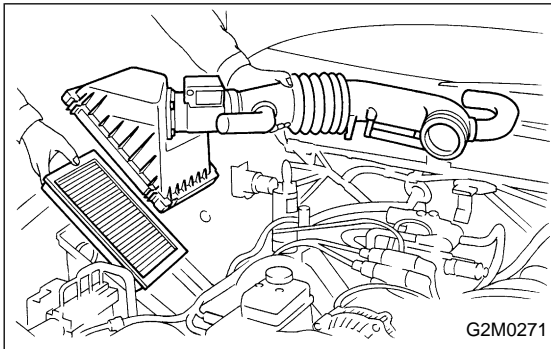
- 7) Collect refrigerant, and remove pressure hoses. (With A/C)

- (1) Place and connect the attachment hose to the refrigerant recycle system.
- (2) Collect refrigerant from A/C system.



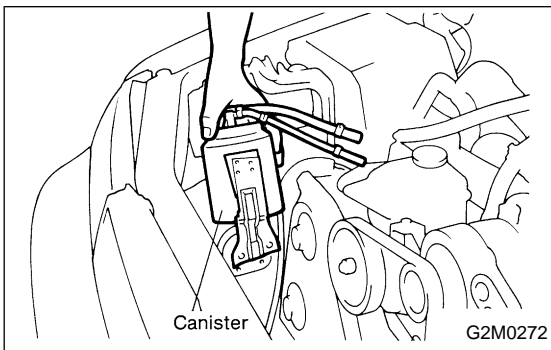


(3) Disconnect A/C pressure hoses from A/C compressor.



8) Remove air intake system.

- (1) Disconnect connector from mass air flow sensor.
- (2) Remove air intake duct with air cleaner upper cover, and remove air cleaner element.

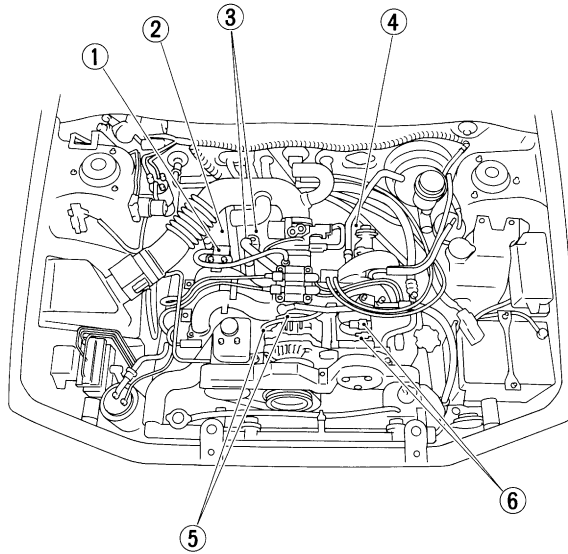


9) Remove canister and bracket.

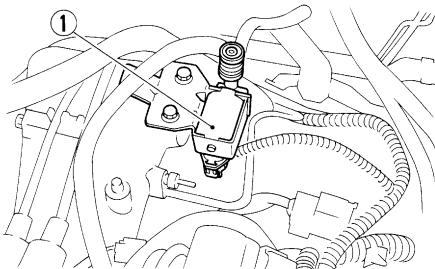
10) Disconnect connectors, cables and hoses.

(1) Disconnect the following connectors.

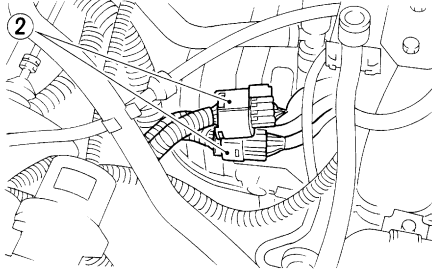
- ① FICD solenoid valve (With A/C)
- ② Engine harness connectors
- ③ Oxygen sensor connector
- ④ Engine ground terminal
- ⑤ Alternator connector and terminal
- ⑥ A/C compressor connectors (With A/C)



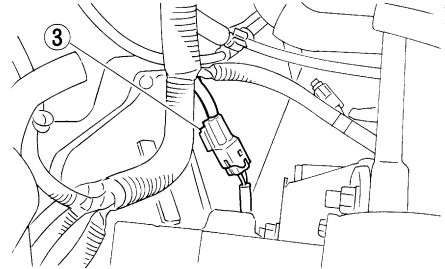
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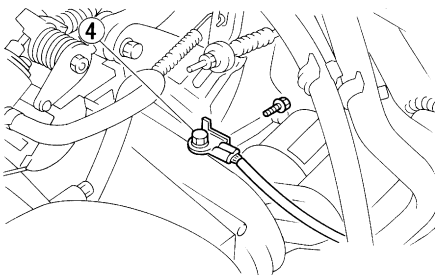
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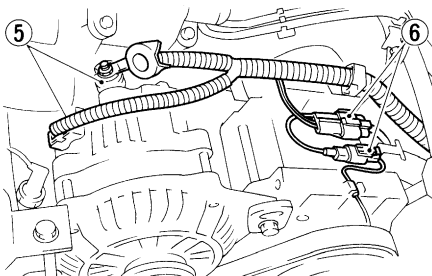
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G2M0273



G2M0274



G2M0276

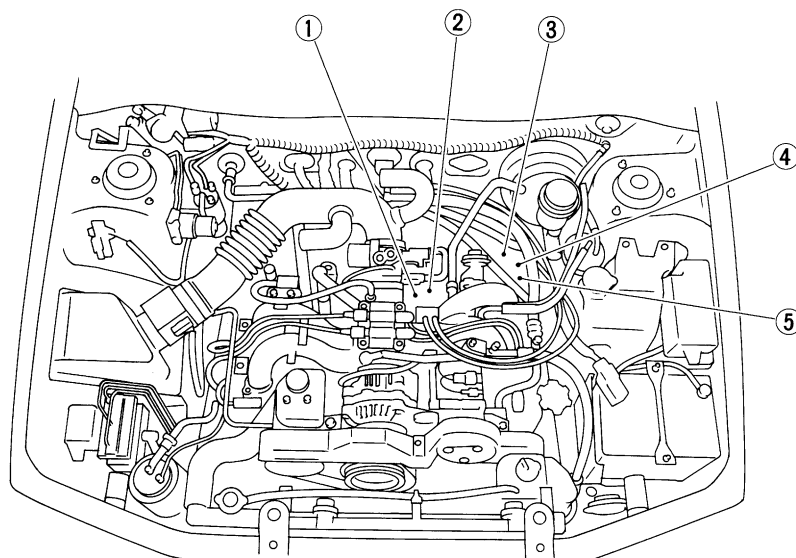
SUBARU.

(2) Disconnect the following cables.

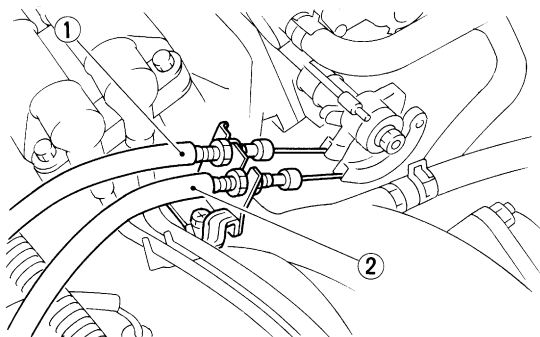
- ① Accelerator cable
- ② Cruise control cable
- ③ Clutch release spring (MT model)
- ④ Clutch cable (MT model)
- ⑤ Hill holder cable (MT model)

**CAUTION:**

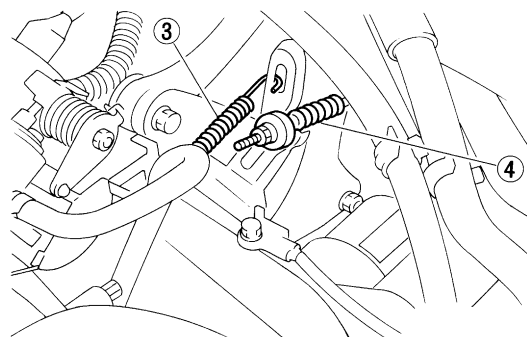
**Disconnect hill-holder cable at connection on clutch release fork side and transfer it to PHV side.**



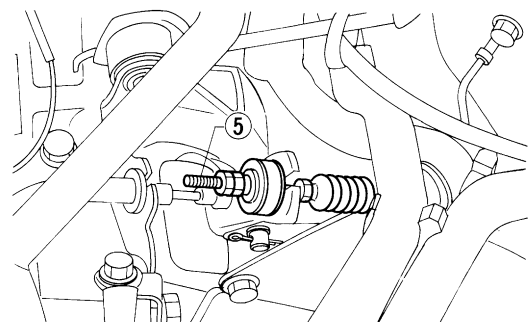
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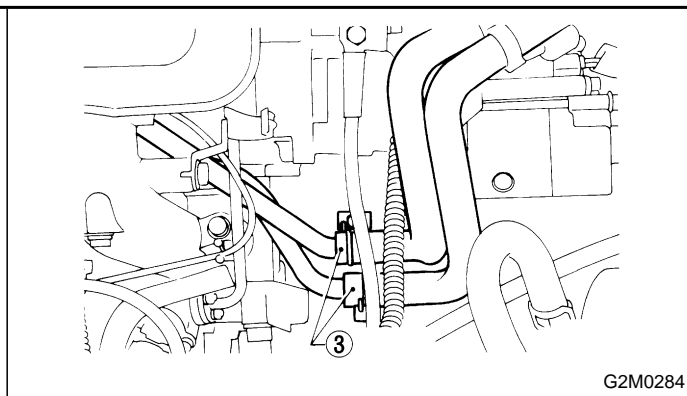
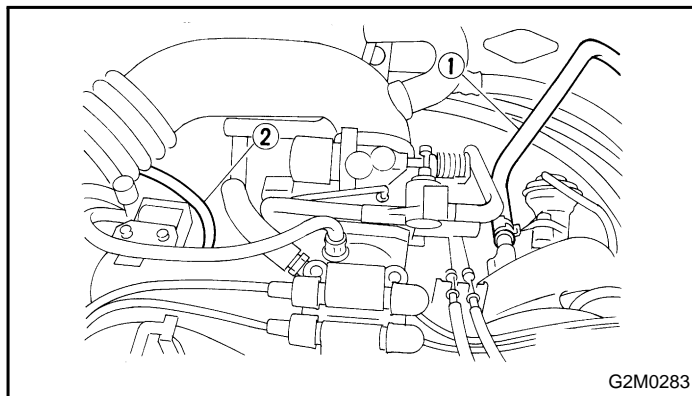
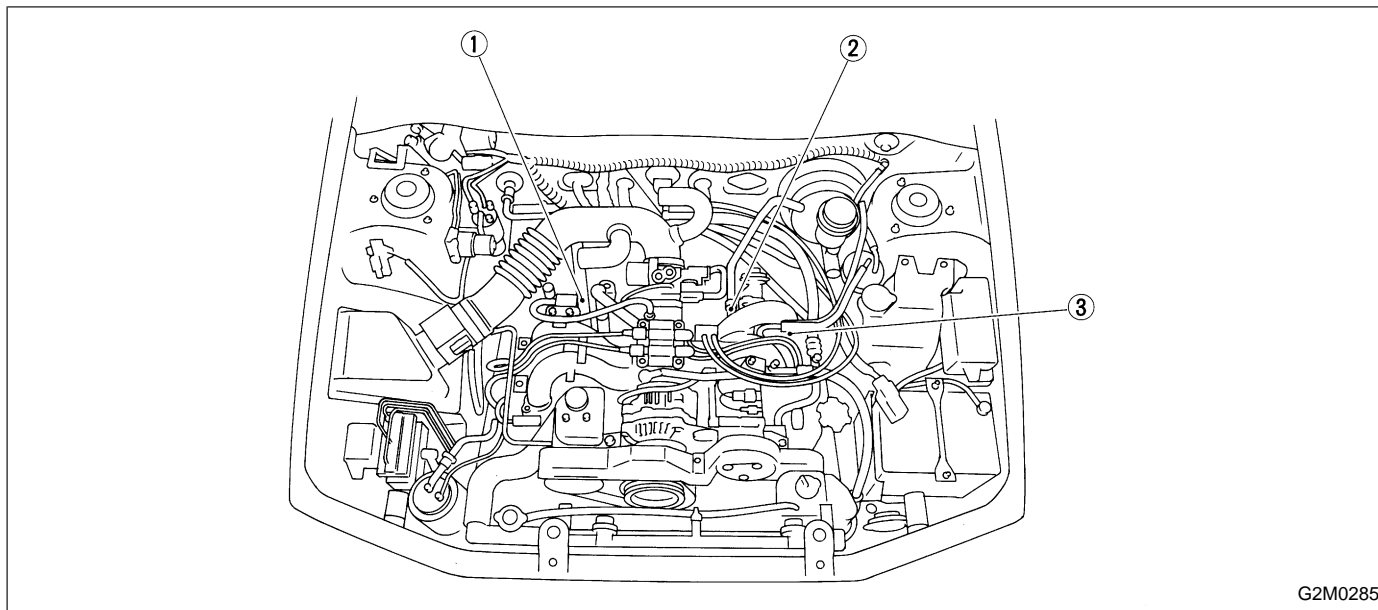
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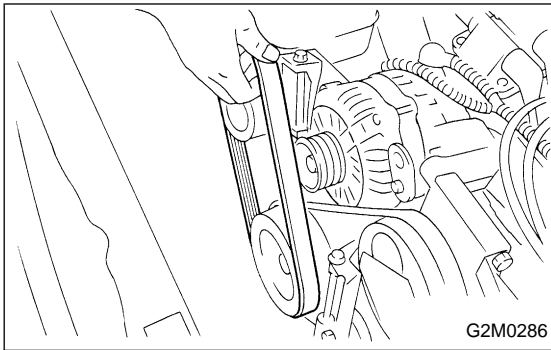


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**SUBARU.**

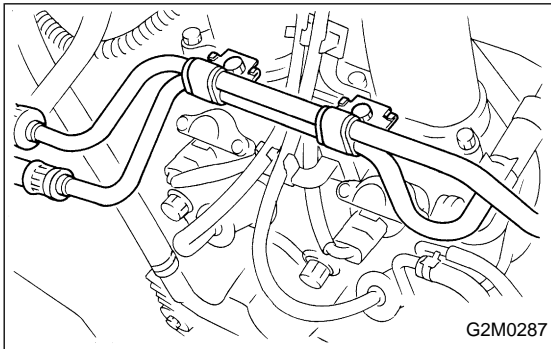
- (3) Disconnect the following hoses.
- ① Cruise control vacuum hose (With cruise control)
  - ② Brake booster vacuum hose
  - ③ Heater inlet and outlet hoses



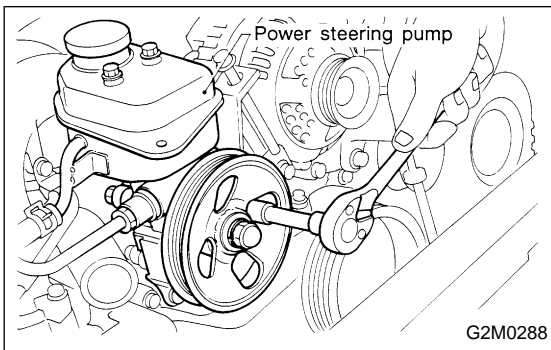


11) Remove power steering pump from bracket.

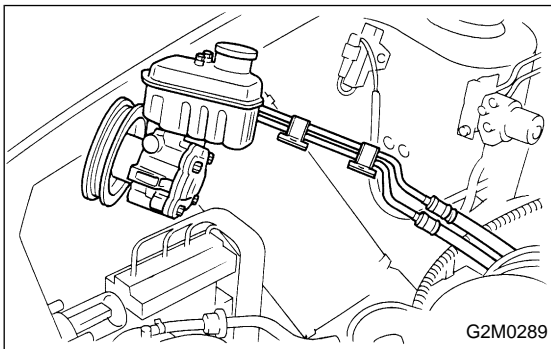
(1) Loosen lock bolt and slider bolt, and remove front side V-belt.



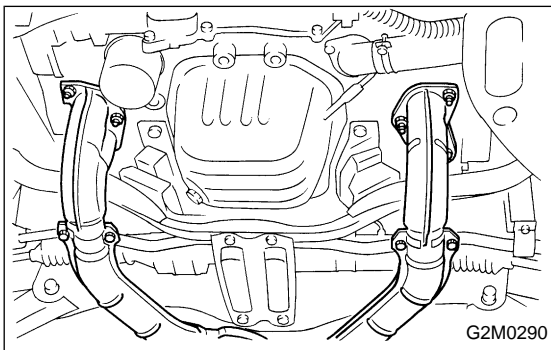
(2) Remove pipe with bracket from intake manifold.



(3) Remove bolts which install power steering pump from bracket.



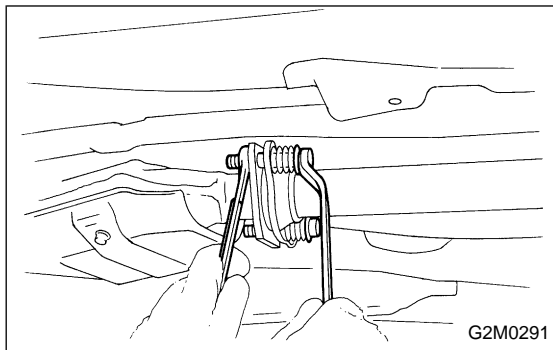
(4) Place power steering pump on the right side wheel apron.



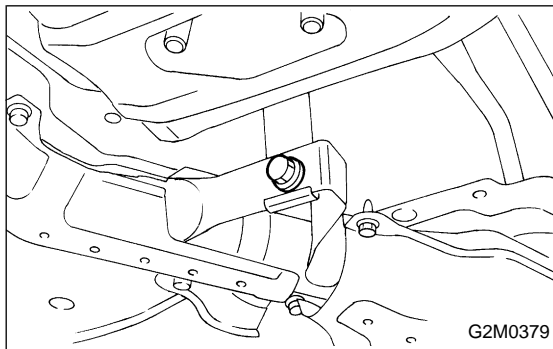
12) Remove front exhaust pipe and center exhaust pipe.

(1) Lift up the vehicle.

(2) Remove nuts which install front exhaust pipe onto engine.



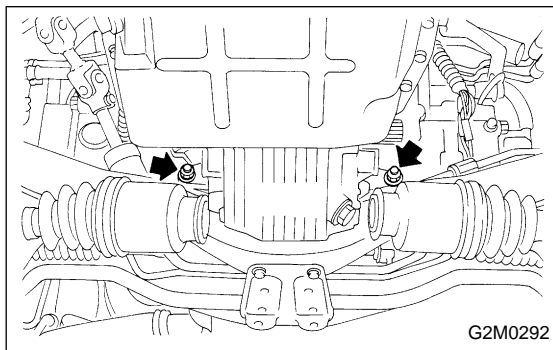
(3) Separate center exhaust pipe from rear exhaust pipe.



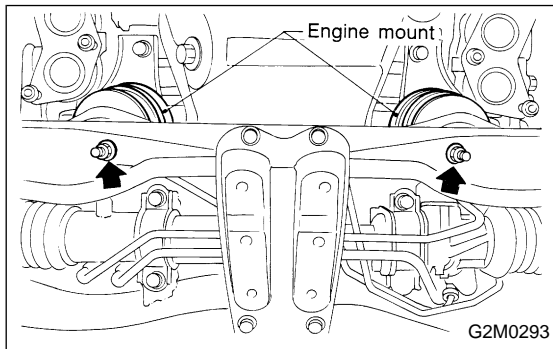
(4) Remove bolt which installs center exhaust pipe on hanger bracket.

**CAUTION:**

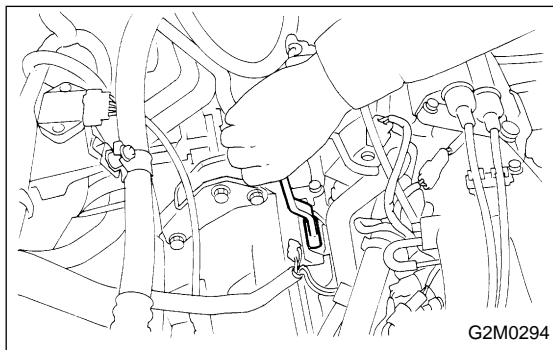
**Exhaust pipe will drop when all bolts are removed. So, hold it when removing the last bolt.**



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



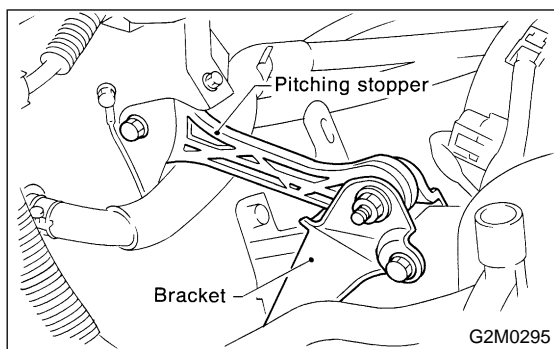
14) Remove nuts which install front cushion rubber onto front crossmember.



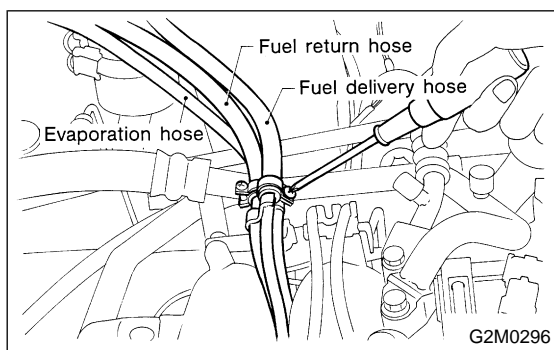
15) Separate torque converter from drive plate. (AT model)

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

ST 499977000 CRANK PULLEY WRENCH

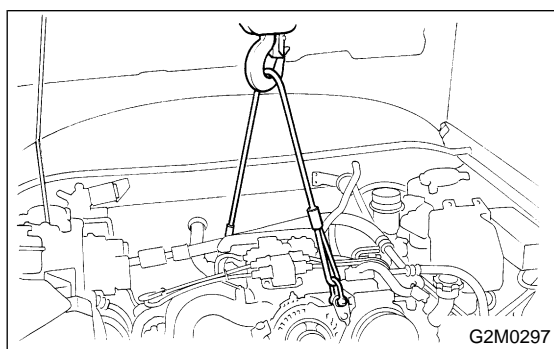


16) Remove pitching stopper.

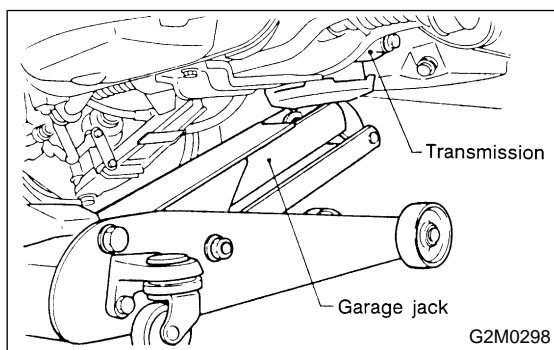


17) Disconnect fuel delivery hose, return hose and evaporation hose.

**CAUTION:**  
Catch fuel from hose into container.

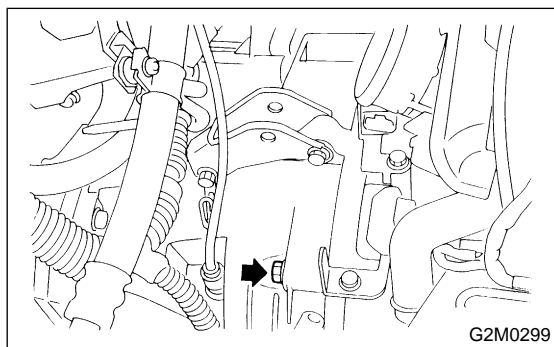


18) Support engine with a lifting device and wire ropes.

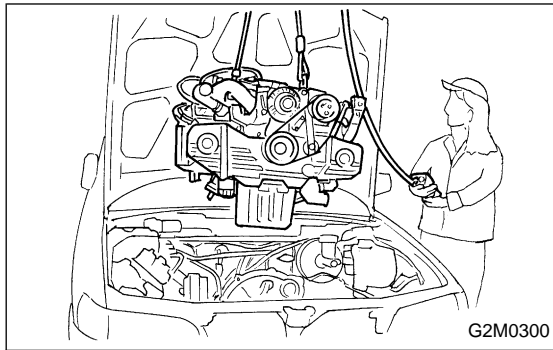


19) Support transmission with a garage jack.

**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.



20) Remove bolts which holds upper side of transmission to engine.



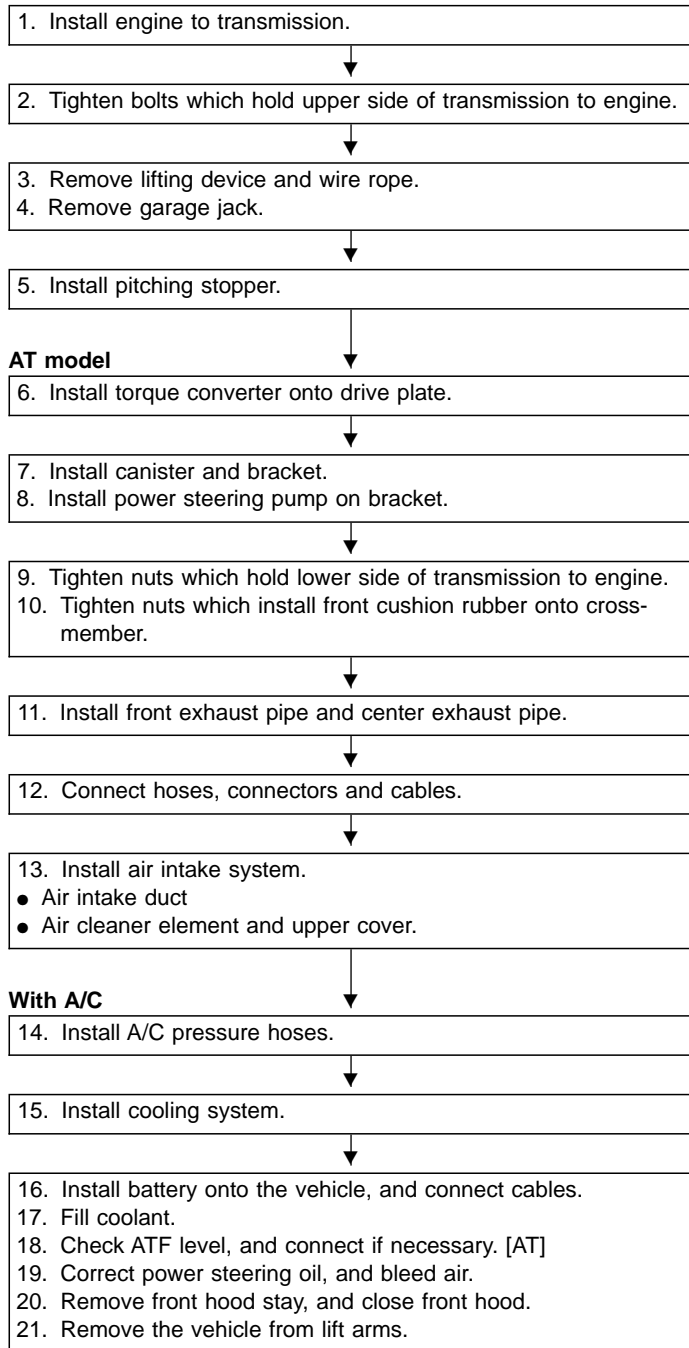
21) Remove engine from vehicle.

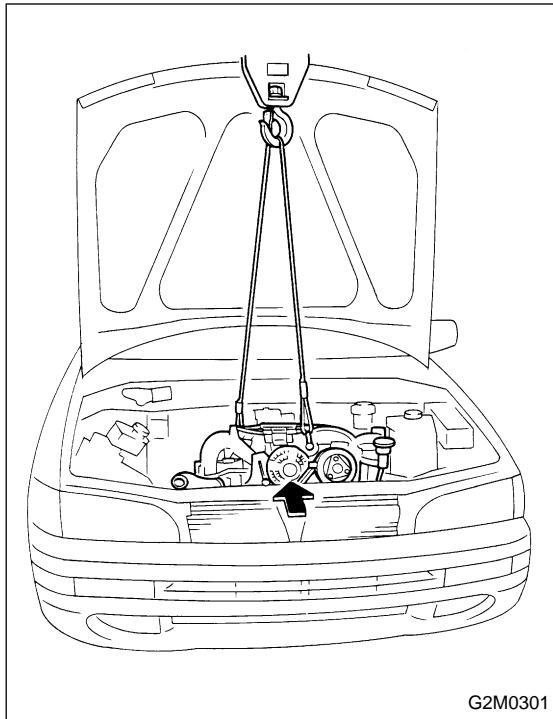
- (1) Slightly raise engine.
- (2) Raise transmission with garage jack.
- (3) Move engine horizontally until mainshaft is withdrawn from clutch cover.
- (4) Slowly move engine away from engine compartment.

**CAUTION:**

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



**B: INSTALLATION**

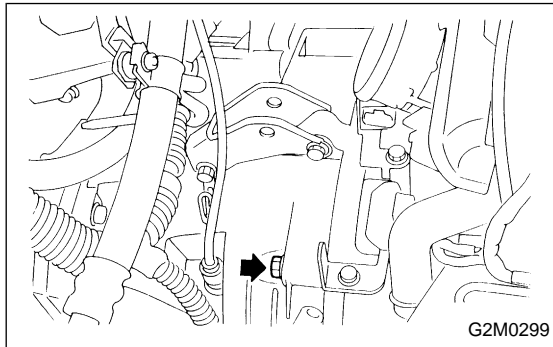


- 1) Install engine onto transmission.
  - (1) Position engine in engine compartment and align it with transmission.

**CAUTION:**

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

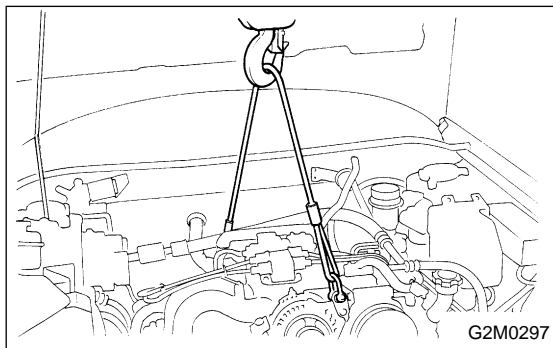
- (2) Apply a small amount of grease to splines of mainshaft.



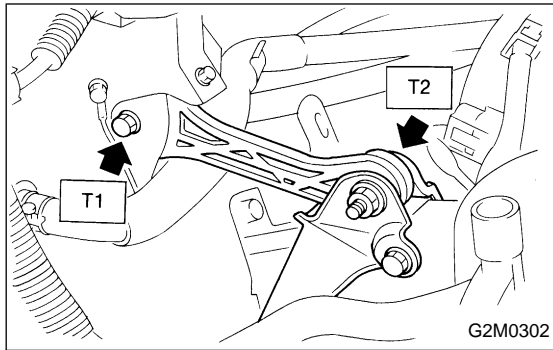
- 2) Tighten bolts which hold upper side of transmission to engine.

**Tightening torque:**

**46 — 54 N·m (4.7 — 5.5 kg-m, 34 — 40 ft-lb)**



- 3) Remove lifting device and wire ropes.
- 4) Remove garage jack.

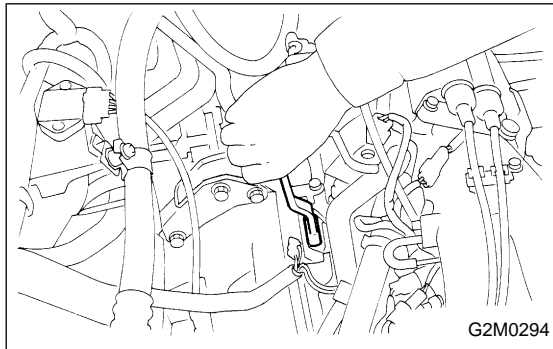


5) Install pitching stopper.

**Tightening torque:**

**T1: 44 — 54 N·m (4.5 — 5.5 kg-m, 33 — 40 ft-lb)**

**T2: 47 — 67 N·m (4.8 — 6.8 kg-m, 35 — 49 ft-lb)**



6) Install torque converter onto drive plate. (AT model)

(1) Tighten bolts which hold torque converter to drive plate.

(2) Tighten other bolts while rotating the engine by using ST.

ST 499977000 CRANK PULLEY WRENCH

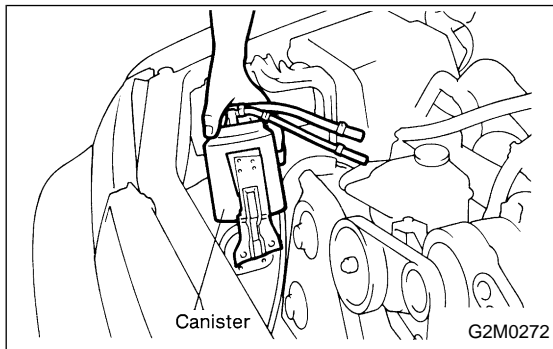
**CAUTION:**

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

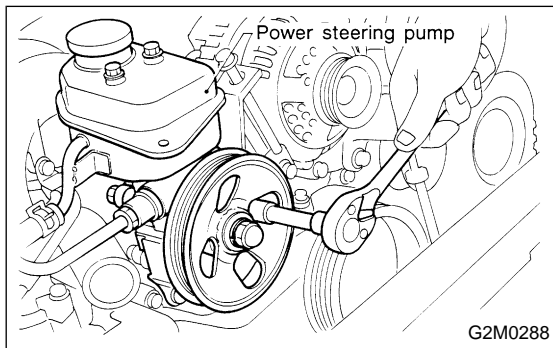
**Tightening torque:**

**23 — 26 N·m (2.3 — 2.7 kg-m, 17 — 20 ft-lb)**

(3) Clog plug onto service hole.



7) Install canister and bracket.

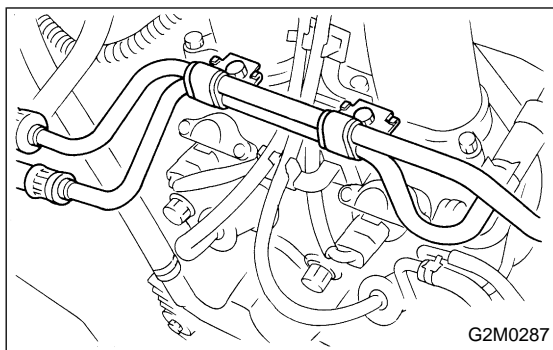


8) Install power steering pump on bracket.

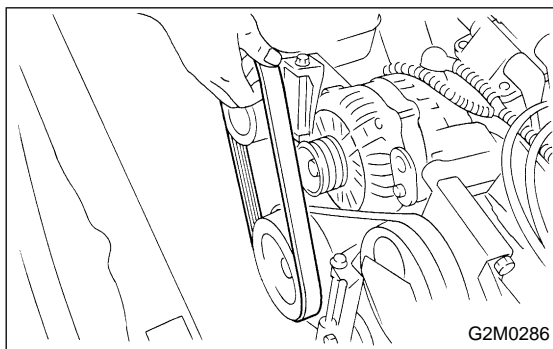
(1) Install power steering pump on bracket, and tighten bolts.

**Tightening torque:**

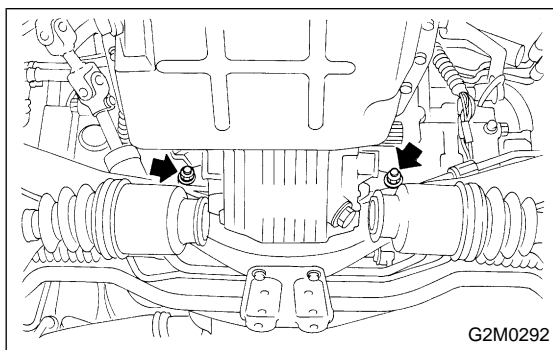
**29 — 49 N·m (3 — 5 kg-m, 22 — 36 ft-lb)**



(2) Install power steering pipe bracket on right side intake manifold, and install spark plug codes.



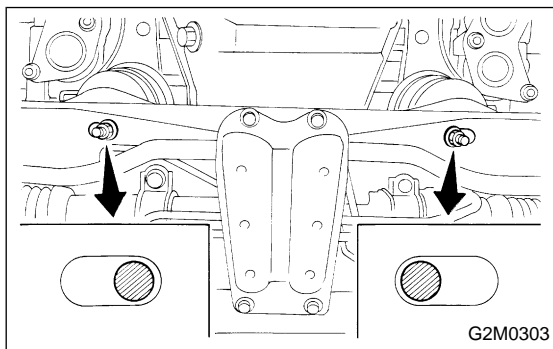
(3) Install front side V-belt, and adjust it.  
<Ref. to 1-5 [W1A0].>



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

**Tightening torque:**

**46 — 54 N·m (4.7 — 5.5 kg-m, 34 — 40 ft-lb)**



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

**Tightening torque:**

**54 — 83 N·m (5.5 — 8.5 kg-m, 40 — 61 ft-lb)**

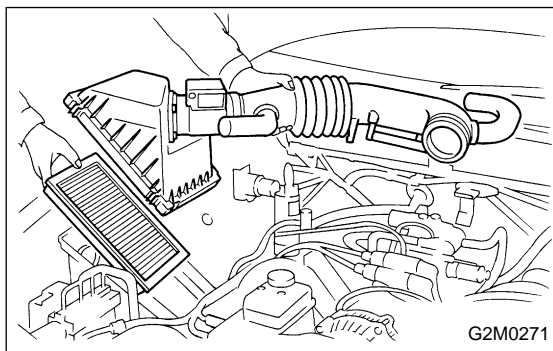
**CAUTION:**

**Be sure to tighten front cushion rubber mounting bolts in the innermost elliptical hole in the front crossmember.**

- 11) Install front exhaust pipe and center exhaust pipe.
- 12) Connect hoses, connectors and cables.
  - (1) Connect the following hoses.
    - Fuel delivery hose, return hose and evaporation hose
    - Heater inlet and outlet hoses
    - Brake booster vacuum hose
    - Canister hoses
  - (2) Connect the following connectors.
    - Engine ground terminal
    - Engine harness connectors
    - Oxygen sensor connector
    - Cam angle sensor connector
    - Crank angle sensor connector
    - Alternator connector and terminal
    - A/C compressor connectors (With A/C)
  - (3) Connect the following cables.
    - Accelerator cable
    - Cruise control cables (With cruise control)
    - Hill holder cable
    - Clutch cable
    - Clutch release spring

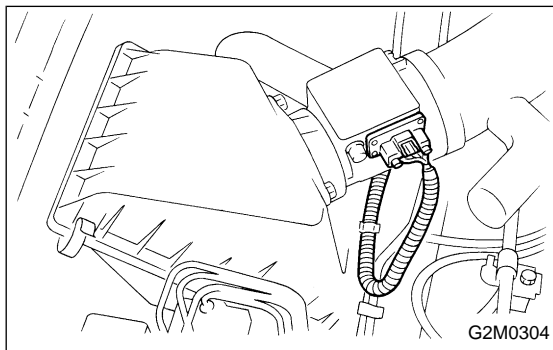
**CAUTION:**

**After connecting each cable, adjust them.**



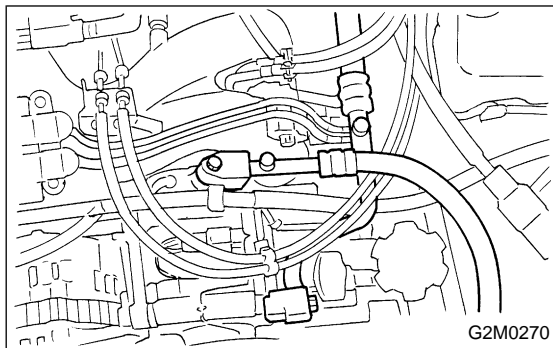
G2M0271

- 13) Install air intake system.
  - (1) Install air cleaner element.
  - (2) Install air intake duct with air cleaner upper cover.



G2M0304

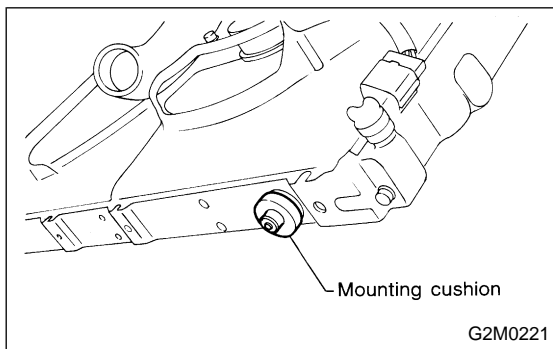
- (3) Connect connector to mass air flow sensor.



- 14) Install A/C flexible hoses. (With A/C)  
<Ref. to 4-7 [W16B0].>

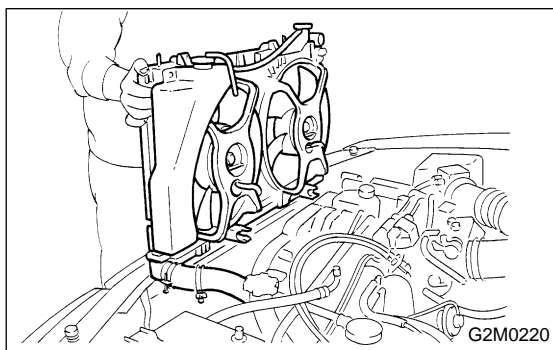
**CAUTION:**  
Use new O-rings.

**Tightening torque:**  
**18 — 31 N·m (1.8 — 3.2 kg-m, 13 — 23 ft-lb)**

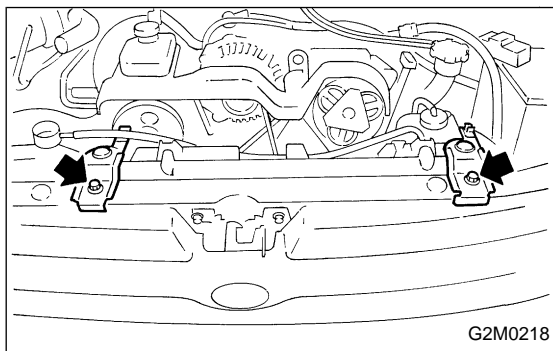


- 15) Install cooling system.

(1) Attach radiator mounting cushions to pins on lower side of radiator.

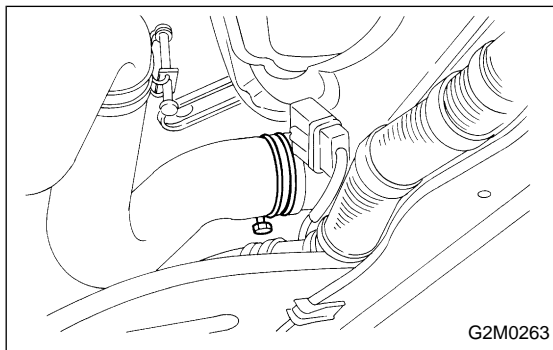


(2) Fit cushions on lower side of radiator, into holes on body side and install radiator.

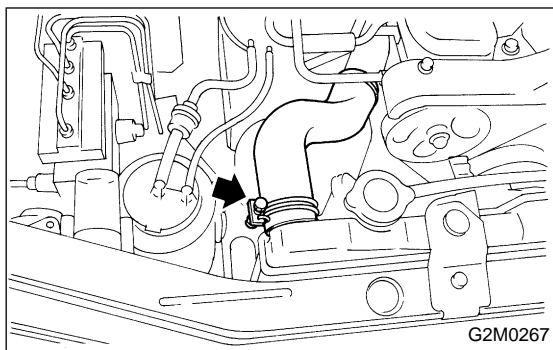


(3) Install radiator brackets and tighten bolts.

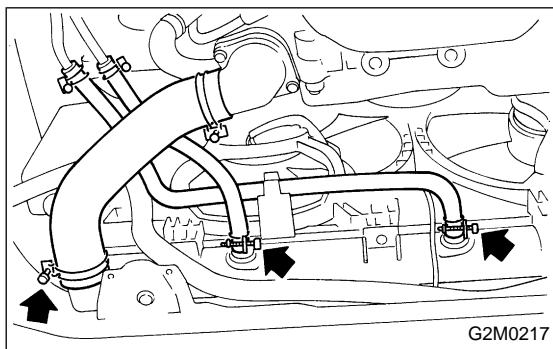
**Tightening torque:**  
**12.3 — 15.2 N·m**  
**(1.25 — 1.55 kg-m, 9.0 — 11.2 ft-lb)**



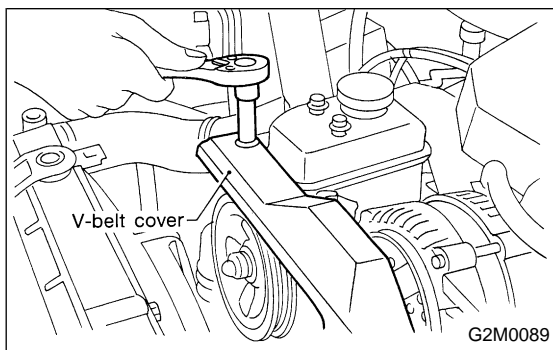
(4) Connect radiator fan motor connector.



(5) Connect radiator inlet hose.



(6) Connect radiator outlet hose.  
(7) Connect ATF cooler hoses. (AT model)



(8) Install V-belt cover.

16) Install battery in the vehicle, and connect cables.

17) Fill coolant.

<Ref. to 1-5 [05A0].>

18) Check ATF level and correct if necessary. (AT model)

<Ref. to 3-2 [W2A0].>

19) Charge A/C system with refrigerant.

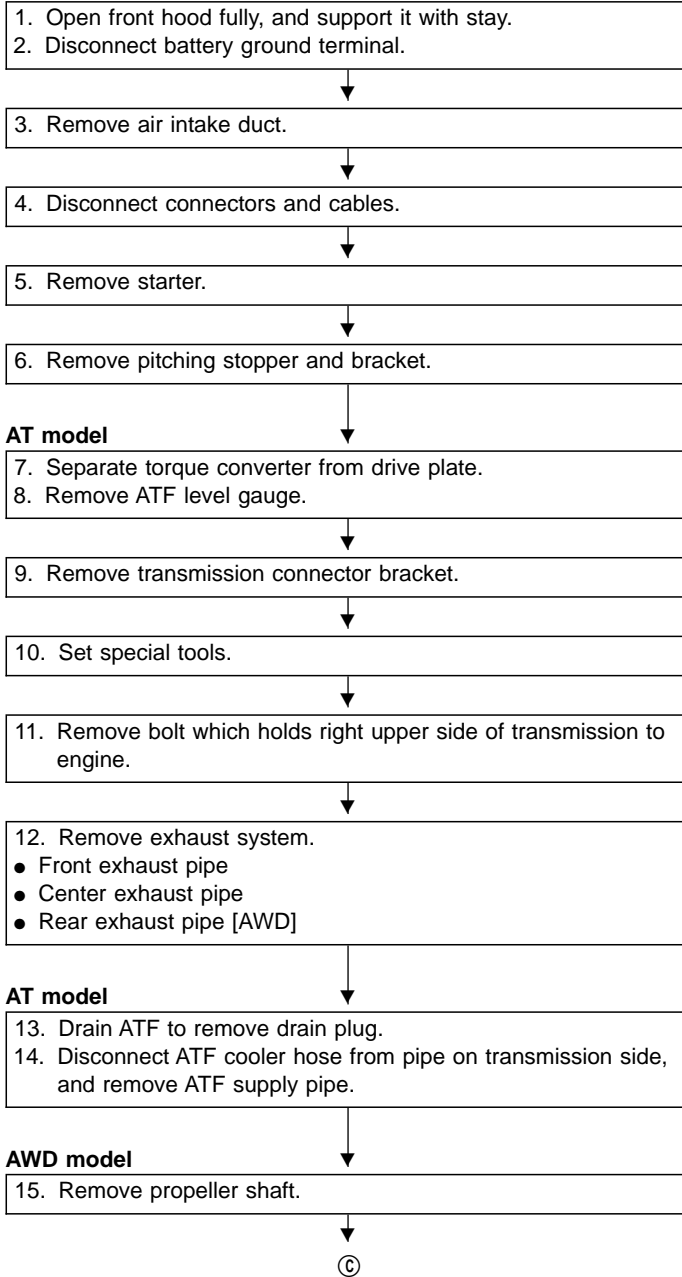
<Ref. to 4-7 [W700].>

20) Remove front hood stay, and close front hood.

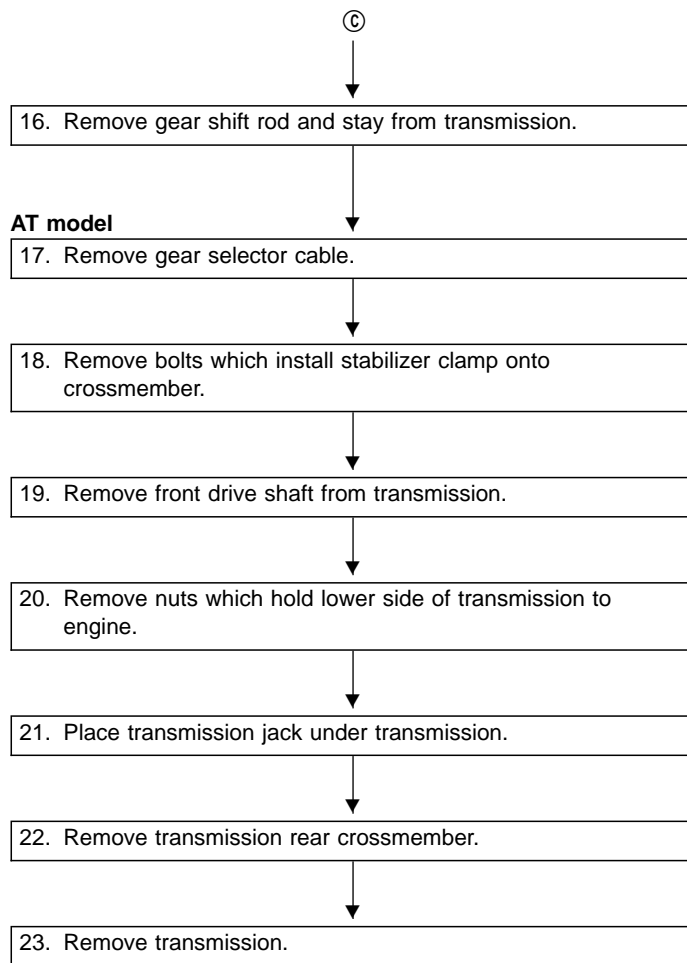
21) Remove the vehicle from lift arms.

### 3. Transmission

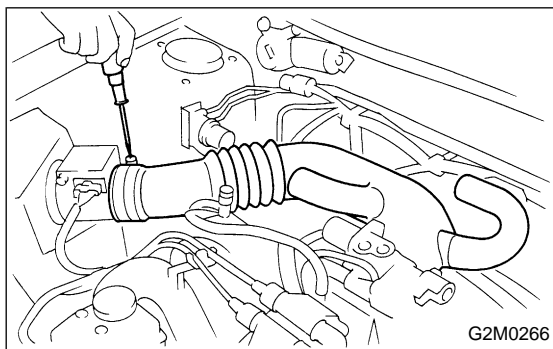
#### A: REMOVAL



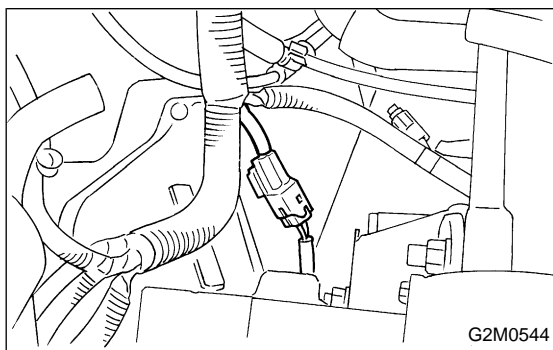




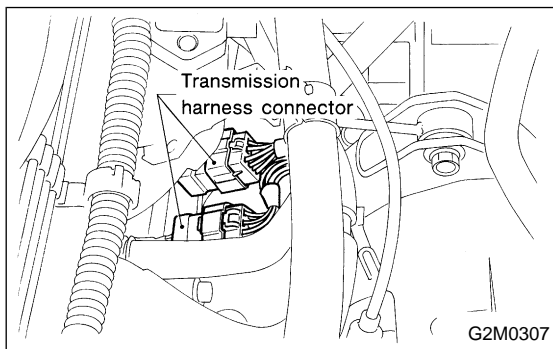
- 1) Open front hood fully, and support with stay.
- 2) Disconnect battery ground terminal.



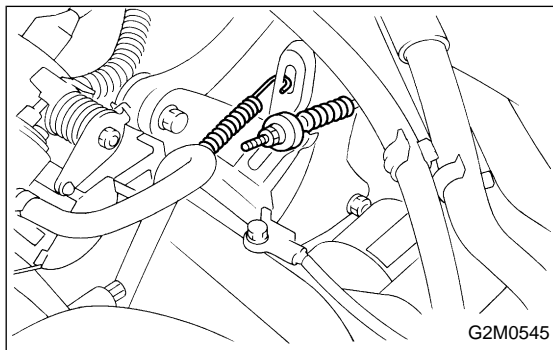
- 3) Remove air intake duct.



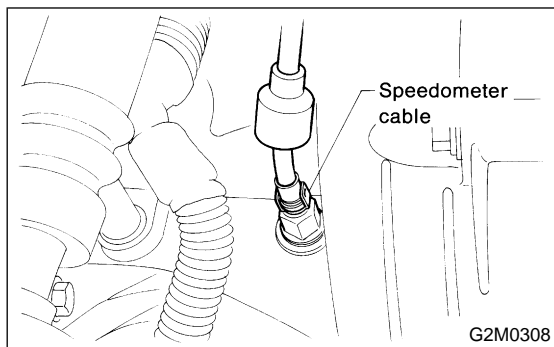
- 4) Disconnect connectors and cables.
  - (1) Disconnect the following connectors.
    - Oxygen sensor



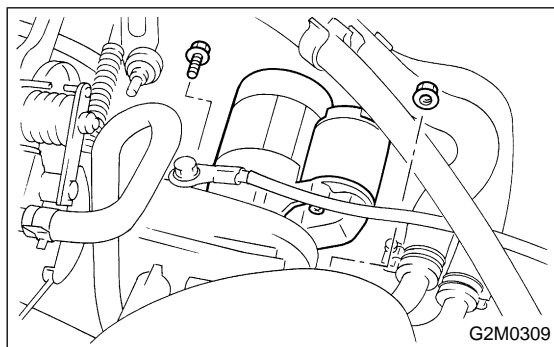
- Transmission harness connector
- Transmission ground terminal



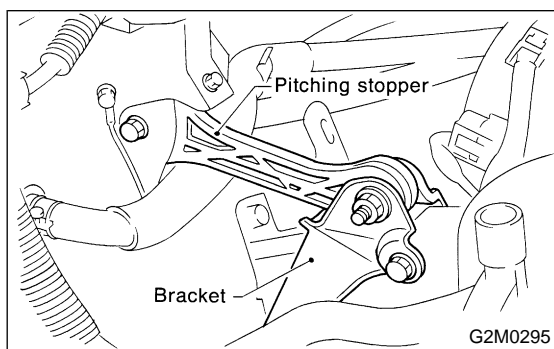
- (2) Disconnect the following cables.
  - Clutch release spring
  - Clutch cable
  - Hill holder cable



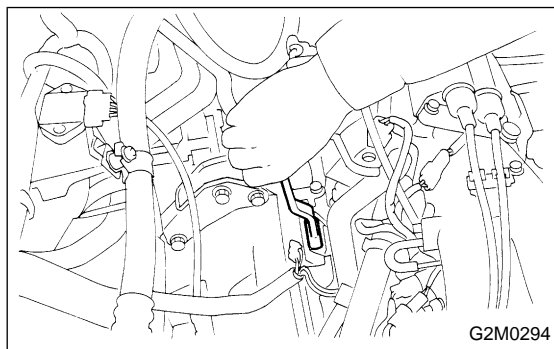
- Speedometer cable



- 5) Remove starter.
  - (1) Disconnect connectors and terminal from starter.
  - (2) Remove bolt which installs upper side of starter.
  - (3) Remove nut which installs lower side of starter, and remove starter from transmission.



- 6) Remove pitching stopper.



- 7) Separate torque converter from drive plate. (AT model)
  - (1) Remove service hole plug.
  - (2) Remove bolts which hold torque converter to drive plate.
  - (3) While rotating the engine, remove other bolts using ST.

ST 499977000 CRANK PULLEY WRENCH

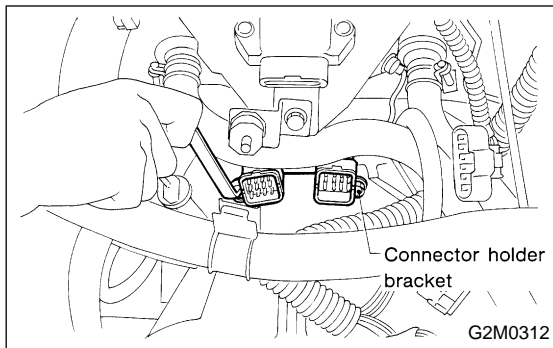
### CAUTION:

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

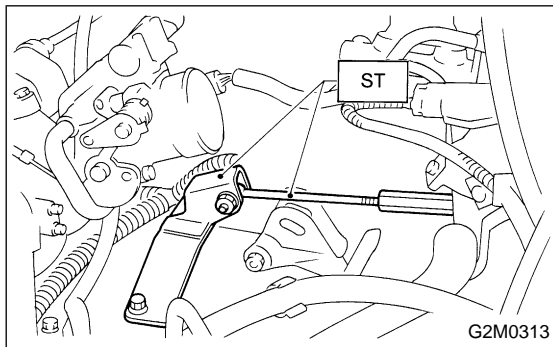
- 8) Remove ATF level gauge. (AT model)

### CAUTION:

**Plug opening to prevent entry of foreign particles into transmission fluid.**



9) Remove transmission connector holder bracket.

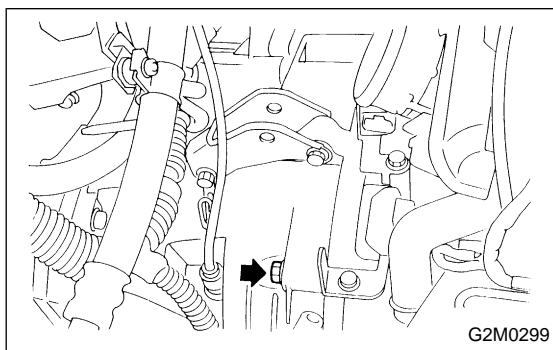


10) Set special tool.

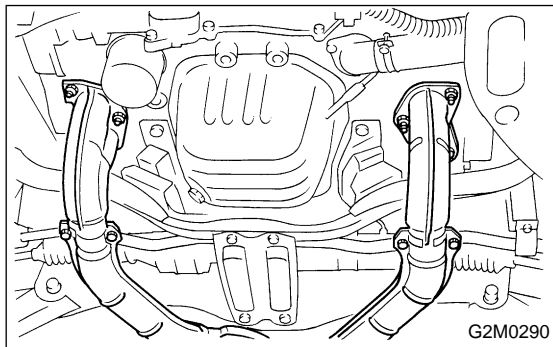
ST 41099AA000 ENGINE SUPPORT ASSY

NOTE:

Also available is Part No. 927670000.



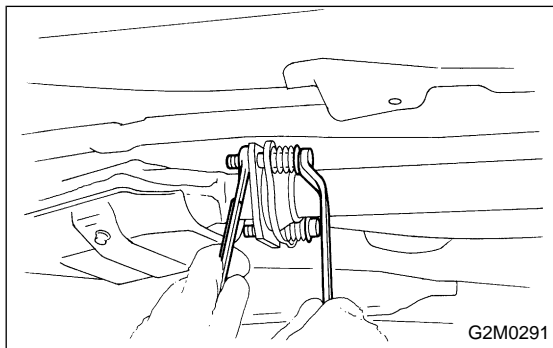
11) Remove bolt which holds right upper side of transmission to engine.



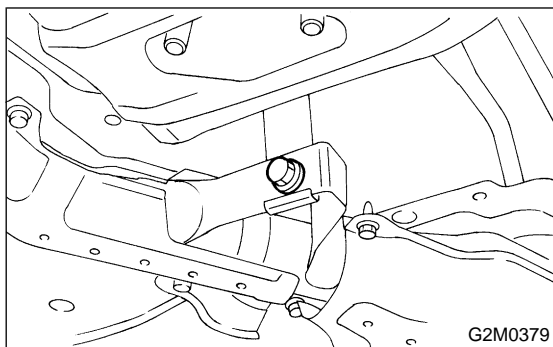
12) Remove exhaust system.

(1) Lift up the vehicle.

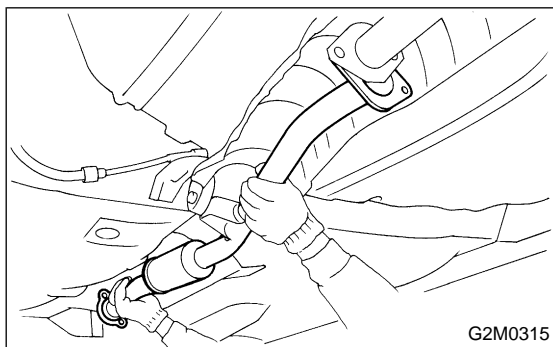
(2) Remove nuts which install front exhaust pipe onto engine.



(3) Separate center exhaust pipe from rear exhaust pipe.



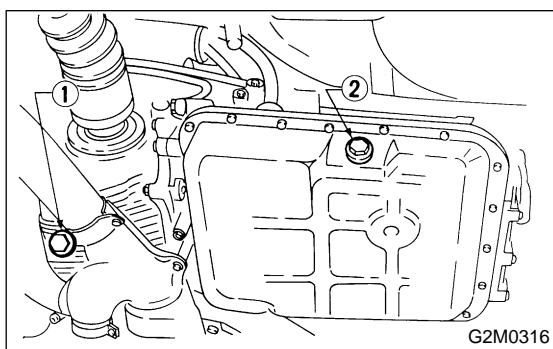
- (4) Remove bolt which installs center exhaust pipe to hanger bracket.



- (5) Remove rear exhaust pipe. (AWD model)

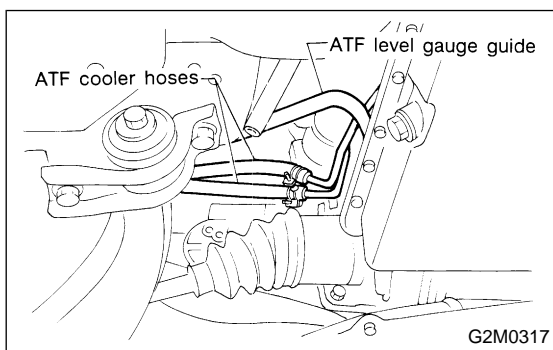
### CAUTION:

When removing exhaust pipes, be careful each exhaust pipe does not drop out.

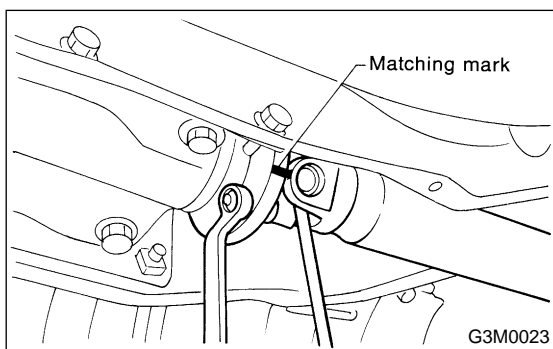


- 13) Drain ATF to remove drain plug. (AT model)

- ① Front differential oil drain plug
- ② ATF drain plug

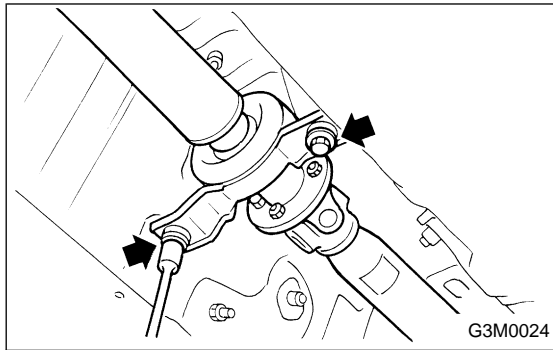


- 14) Disconnect ATF cooler hoses from pipes of transmission side and ATF supply pipe. (AT model)



- 15) Remove propeller shaft. (AWD model)

- (1) Remove front cover of rear differential mount.
- (2) Separate propeller shaft from rear differential.

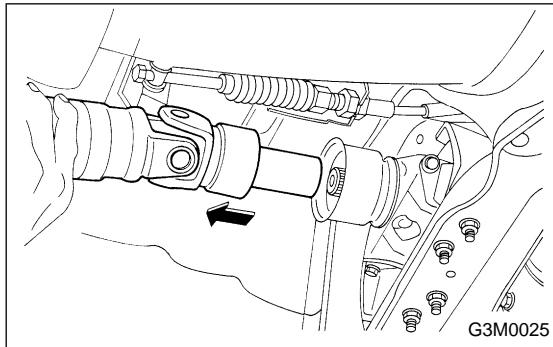


(3) Remove bolts which hold center bearing onto body.

**CAUTION:**

**Be careful not to drop propeller shaft.**

(4) Remove propeller shaft from transmission.

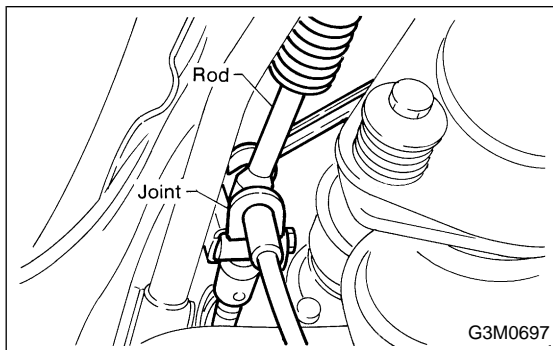


**CAUTION:**

● Be sure to use an empty container to catch oil flowing out when removing propeller shaft.

● Be sure not to damage oil seals and the frictional surface of sleeve yoke.

● Be sure to plug the opening in transmission after removal of propeller shaft.

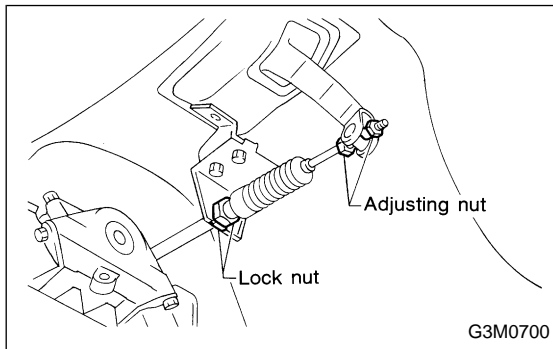


16) Remove gear shift rod and stay from transmission. (MT model)

(1) Remove spring.

(2) Disconnect stay from transmission.

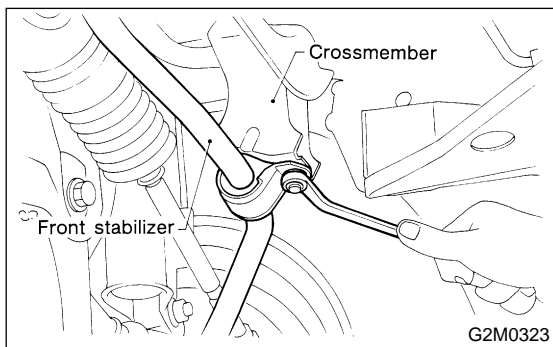
(3) Disconnect rod from transmission.



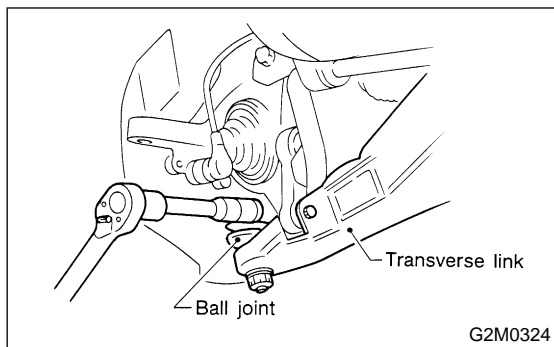
17) Remove shift selector cable. (AT model)

(1) Disconnect shift selector cable from selector lever.

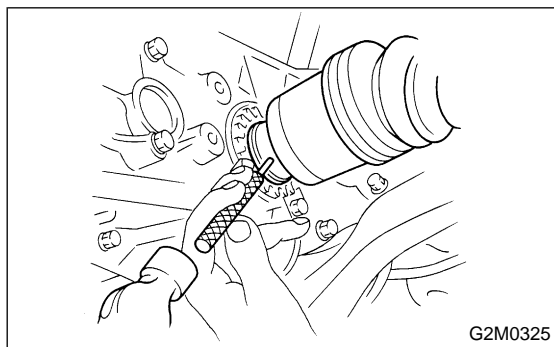
(2) Remove cable bracket from selector lever assembly.



18) Remove bolts which install stabilizer clamp onto crossmember.



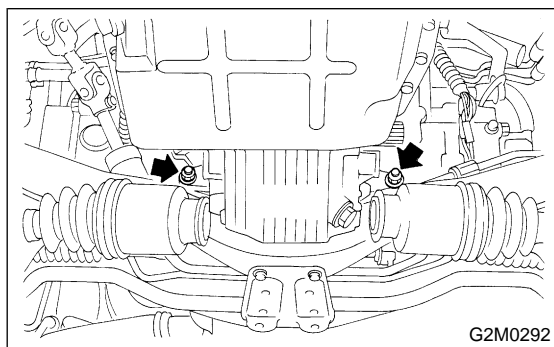
- 19) Remove front drive shaft from transmission.
- (1) Remove transverse link from housing.
  - (2) Lower transverse link.



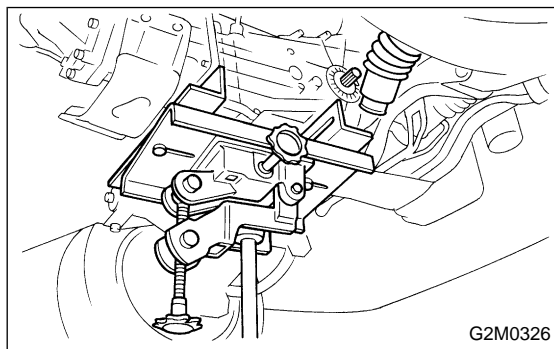
- (3) Remove spring pin and separate front drive shaft from each side of the transmission.

**CAUTION:**

**Discard removing spring pin. Replace with a new one.**



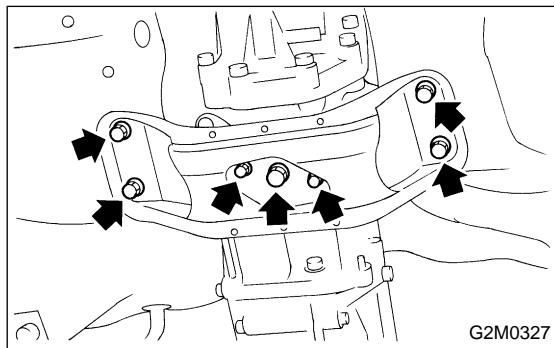
- 20) Remove nuts which hold lower side of transmission to engine.



- 21) Place transmission jack under transmission.

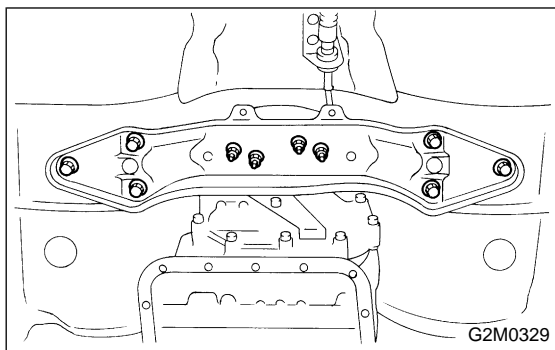
**CAUTION:**

**Always support transmission case with a transmission jack.**



- 22) Remove transmission rear crossmember.

● **MT model**



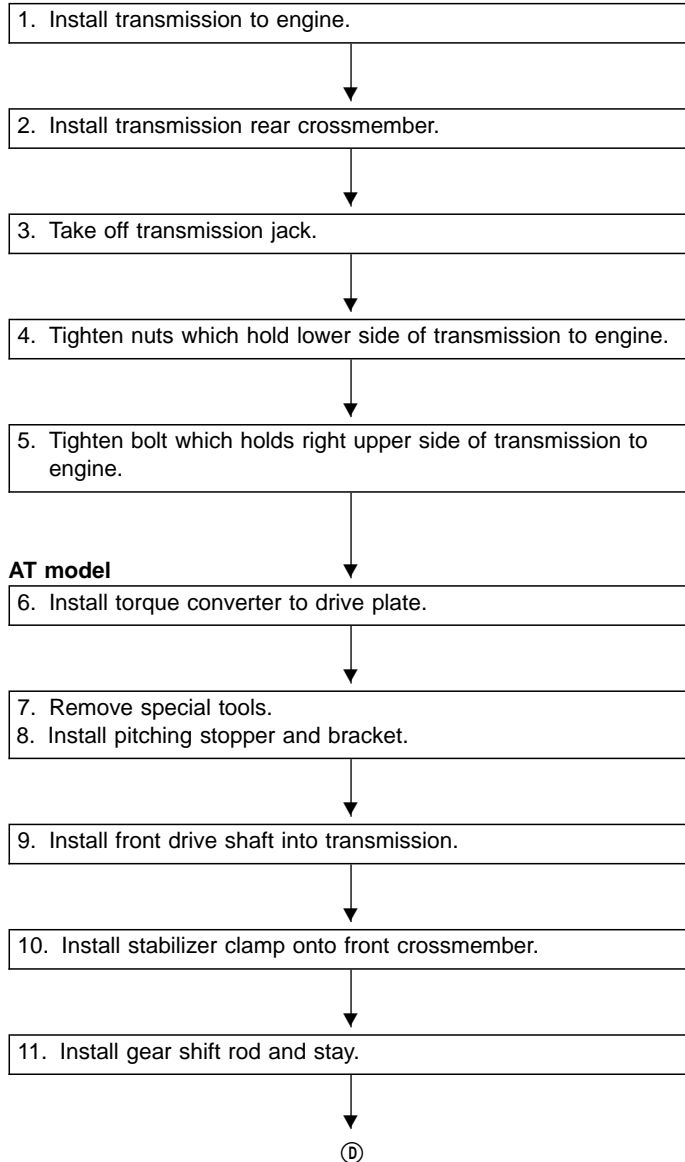
- AT model

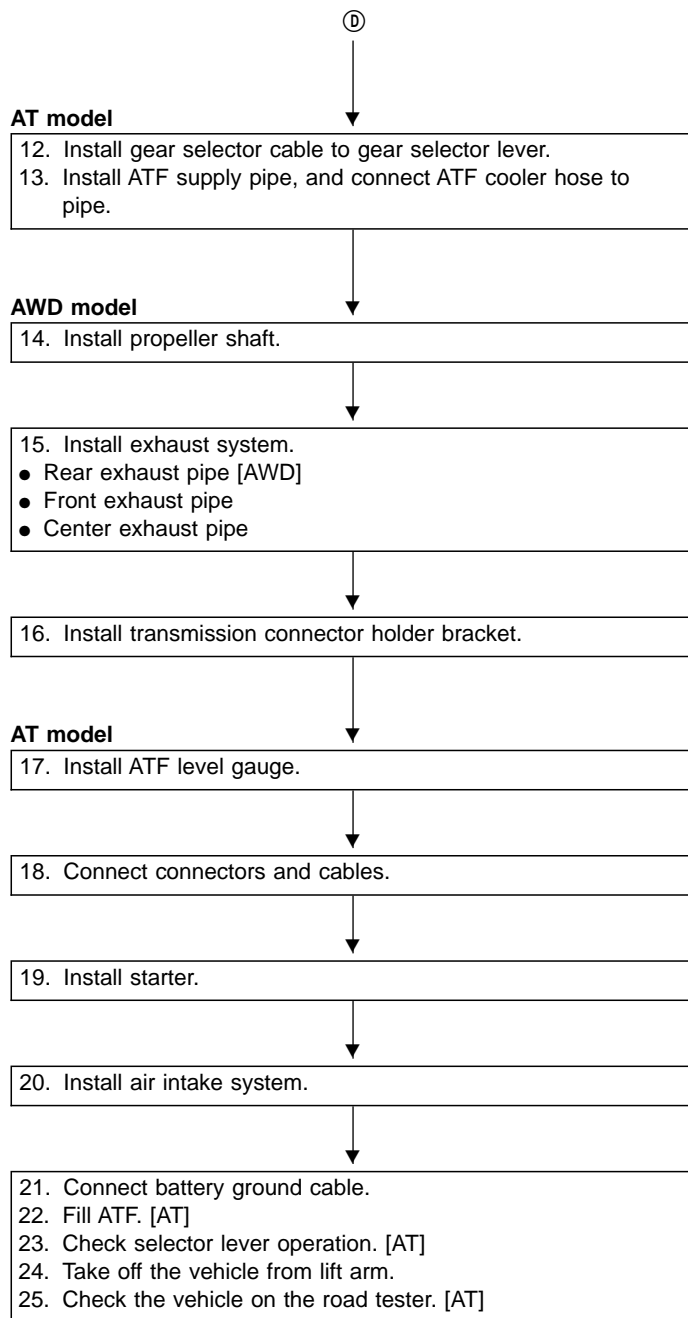
23) Remove transmission.

**CAUTION:**

- Move transmission jack toward rear until mainshaft is withdrawn from clutch cover. (MT model)
- Move transmission and torque converter as a unit away from engine. (AT model)



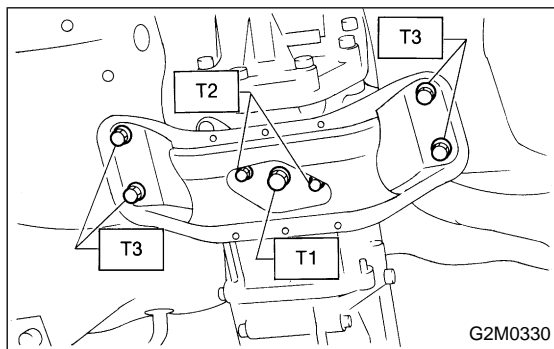
**B: INSTALLATION**



- 1) Install transmission onto engine.
  - (1) Gradually raise transmission with transmission jack.
  - (2) Engage them at splines.

### CAUTION:

Be careful not to strike mainshaft against clutch cover.  
(MT model)



- 2) Install transmission rear crossmember.

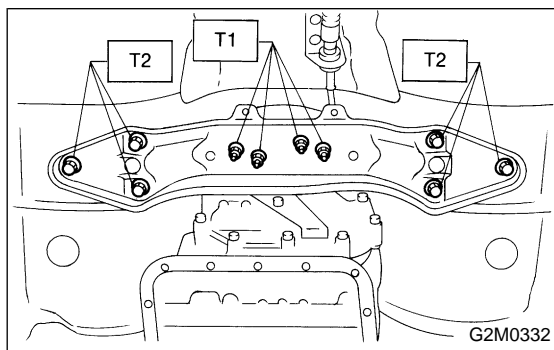
#### ● MT model

#### Tightening torque:

T1: 23 — 26 N·m (2.3 — 2.7 kg-m, 17 — 20 ft-lb)

T2: 27 — 47 N·m (2.8 — 4.8 kg-m, 20 — 35 ft-lb)

T3: 54 — 83 N·m (5.5 — 8.5 kg-m, 40 — 61 ft-lb)

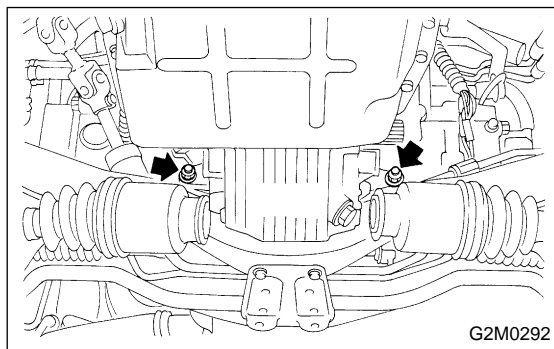


#### ● AT model

#### Tightening torque:

T1: 13 — 23 N·m (1.3 — 2.3 kg-m, 9 — 17 ft-lb)

T2: 54 — 83 N·m (5.5 — 8.5 kg-m, 40 — 61 ft-lb)

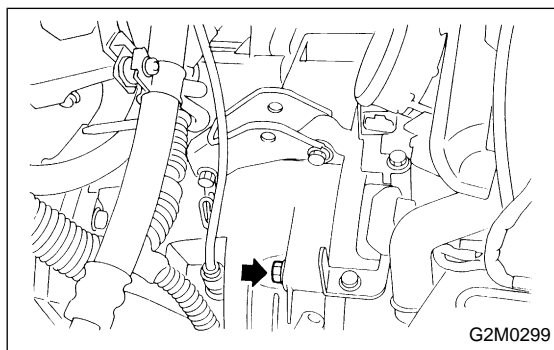


- 3) Take off transmission jack.

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

#### Tightening torque:

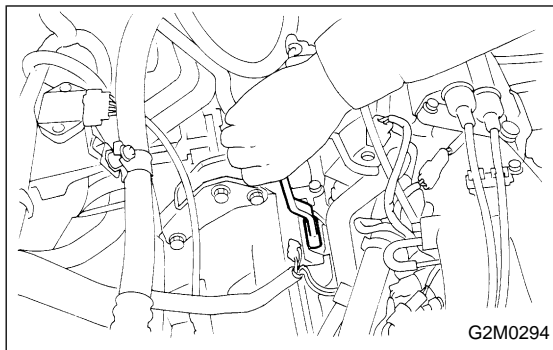
46 — 54 N·m (4.7 — 5.5 kg-m, 34 — 40 ft-lb)



- 5) Tighten bolt which holds right upper side of transmission to engine.

#### Tightening torque:

46 — 54 N·m (4.7 — 5.5 kg-m, 34 — 40 ft-lb)



- 6) Install torque converter to drive plate. (AT model)
- (1) Tighten bolts which hold torque converter to drive plate.
  - (2) Tighten other bolts while rotating the engine by using ST.

ST 499977000 CRANK PULLEY WRENCH

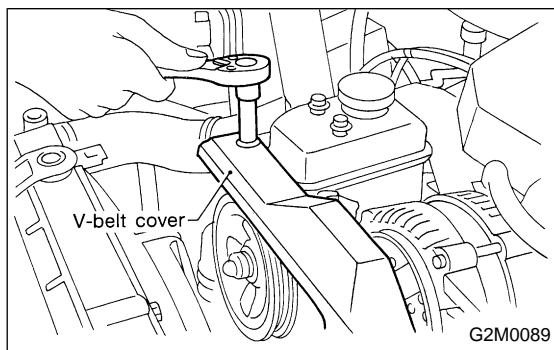
**CAUTION:**

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

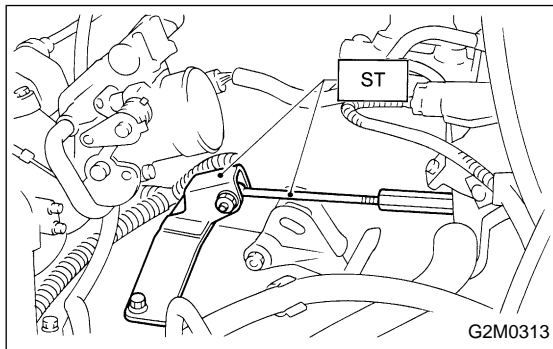
**Tightening torque:**

**23 — 26 N·m (2.3 — 2.7 kg-m, 17 — 20 ft-lb)**

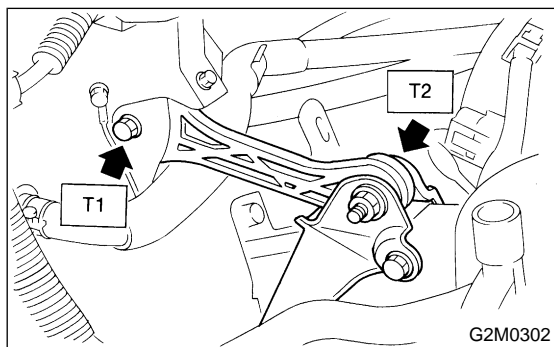
- (3) Clog plug onto service hole.



- (4) Install V-belt cover.



- 7) Remove special tool.

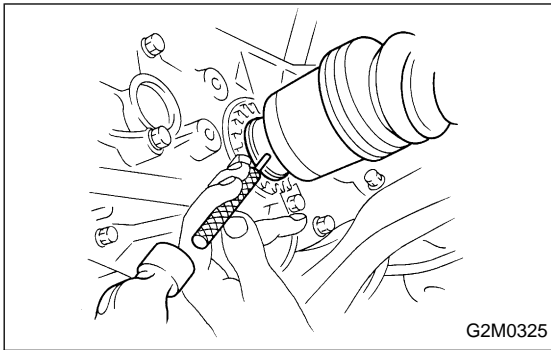


- 8) Install pitching stopper.

**Tightening torque:**

**T1: 44 — 54 N·m (4.5 — 5.5 kg-m, 33 — 40 ft-lb)**

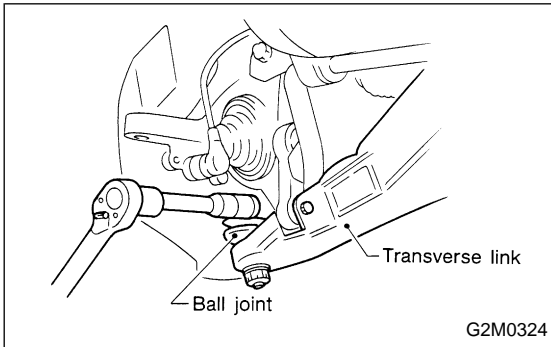
**T2: 47 — 67 N·m (4.8 — 6.8 kg-m, 35 — 49 ft-lb)**



- 9) Install front drive shaft into transmission.
  - (1) Lift up the vehicle.
  - (2) Install front drive shaft into transmission.
  - (3) Drive spring pin into chamfered hole of drive shaft.

**CAUTION:**

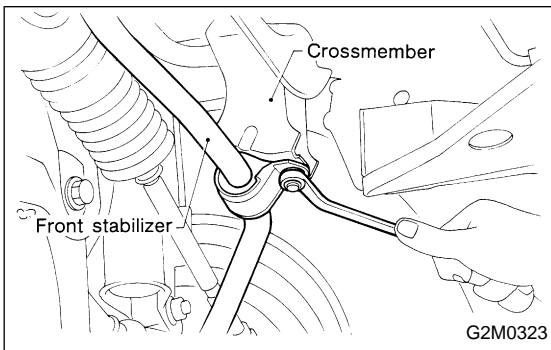
**Always use a new spring pin.**



- (4) Install ball joint of lower arm into knuckle arm of housing, and tighten installing bolt.

**Tightening torque:**

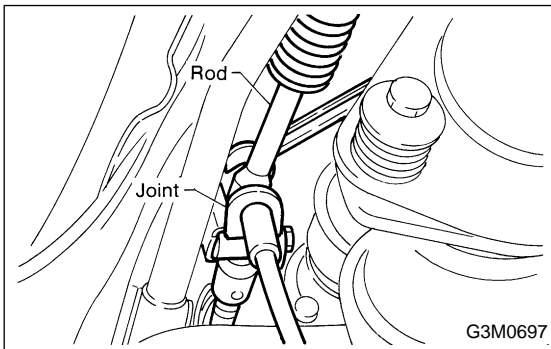
**25 — 29 N·m (2.5 — 3.0 kg-m, 18 — 22 ft-lb)**



- 10) Install stabilizer clamp onto front crossmember.

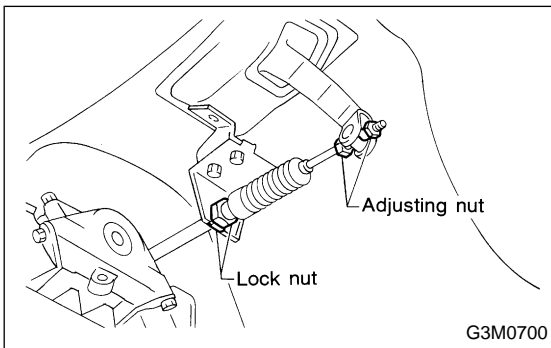
**Tightening torque:**

**21 — 28 N·m (2.1 — 2.9 kg-m, 15 — 21 ft-lb)**



- 11) Install gear shift rod and stay. (MT model)

- (1) Install gear shift rod onto transmission.
- (2) Install stay onto transmission.
- (3) Install spring.



- 12) Install shift selector cable onto selector cable. (AT model)

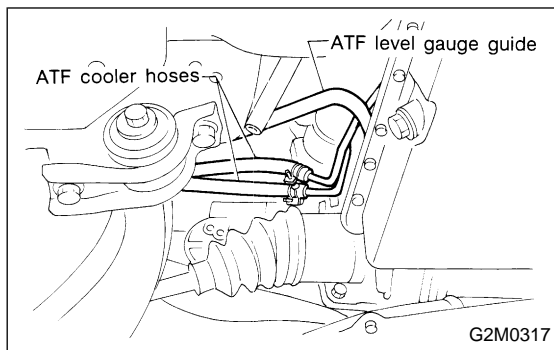
- (1) Install selector cable into selector lever.
- (2) Install cable bracket onto selector lever assembly.

**Tightening torque:**

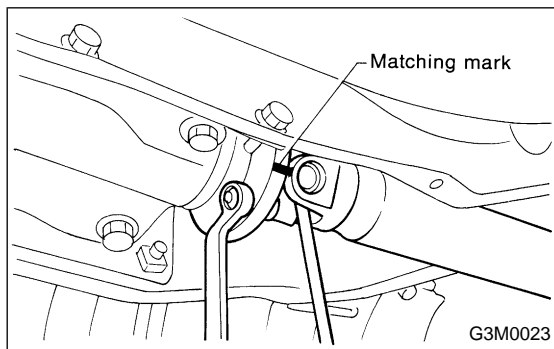
**13 — 23 N·m (1.3 — 2.3 kg-m, 9 — 17 ft-lb)**

**NOTE:**

Tighten selector cable adjusting and lock nut after checking selector lever operation [step. 23)].



13) Install ATF supply pipe, and ATF cooler hose onto pipe. (AT model)

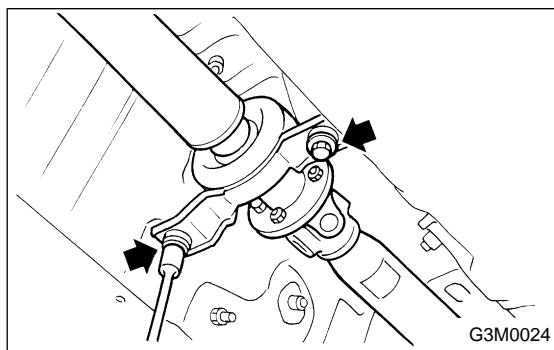


14) Install propeller shaft. (AWD model)

- (1) Install propeller shaft into transmission.
- (2) Tighten bolts which install propeller shaft onto companion flange of rear differential.

**Tightening torque:**

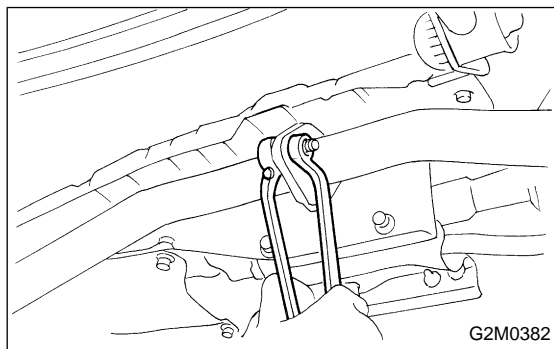
**24 — 39 N·m (2.4 — 4.0 kg-m, 17 — 29 ft-lb)**



(3) Install center bearing bracket on body.

**Tightening torque:**

**47 — 57 N·m (4.8 — 5.8 kg-m, 35 — 42 ft-lb)**

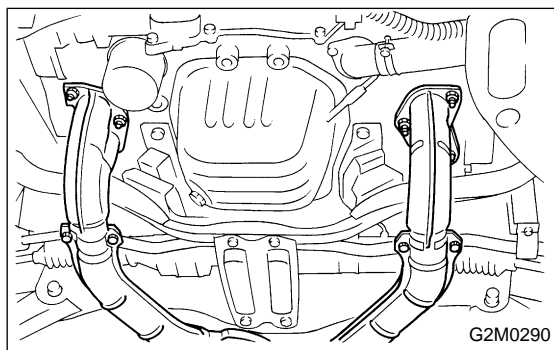


15) Install exhaust system.

(1) Install rear exhaust pipe to muffler. (AWD model)

**Tightening torque:**

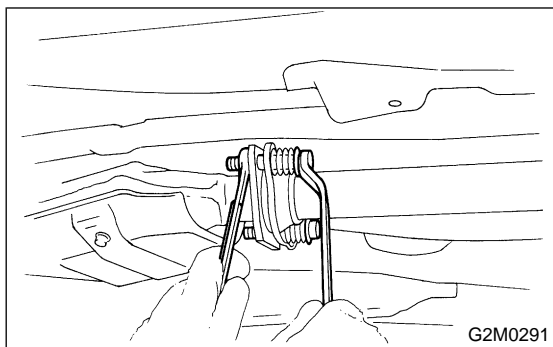
**43 — 53 N·m (4.4 — 5.4 kg-m, 32 — 40 ft-lb)**



(2) Install front exhaust pipe onto engine.

**Tightening torque:**

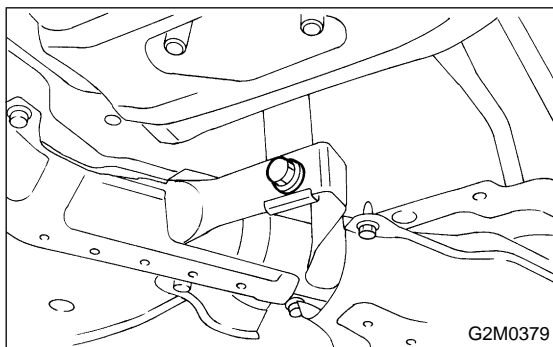
**25 — 35 N·m (2.5 — 3.6 kg-m, 18 — 26 ft-lb)**



(3) Install center exhaust pipe to rear exhaust pipe.

**Tightening torque:**

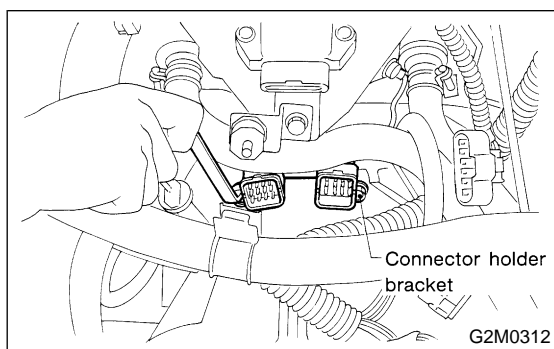
**13 — 23 N·m (1.3 — 2.3 kg-m, 9 — 17 ft-lb)**



(4) Tighten bolt which installs center exhaust pipe to hanger bracket.

**Tightening torque:**

**25 — 35 N·m (2.5 — 3.6 kg-m, 18 — 26 ft-lb)**



16) Install transmission connector holder bracket.

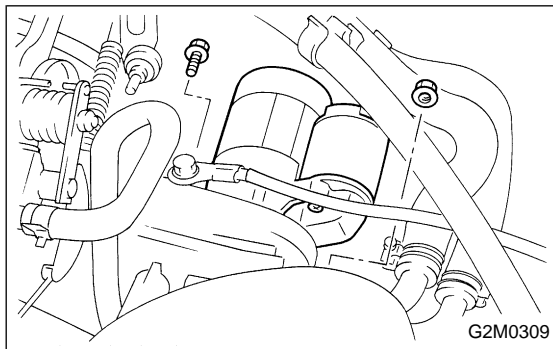
17) Install ATF level gauge. (AT model)

18) Connect connectors and cables.

(1) Connect the following connectors.

- Transmission harness connectors
- Transmission ground terminal
- Oxygen sensor connector

- (2) Connect the following cables.
- Speedometer cable
  - Cruise control cable
  - Clutch cable
  - Hill holder cable

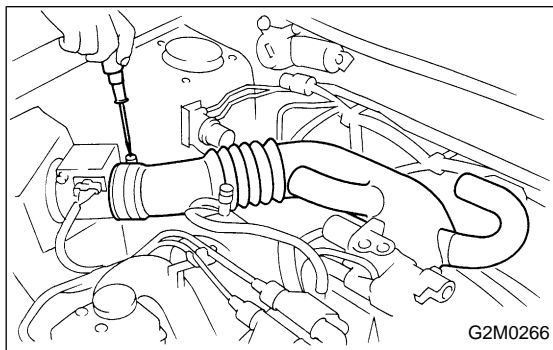


19) Install starter.

- (1) Install starter onto transmission case, and connect connectors and terminals.  
(2) Tighten bolt and nut which install starter onto transmission.

**Tightening torque:**

**46 — 54 N·m (4.7 — 5.5 kg-m, 34 — 40 ft-lb)**



20) Install air intake system.

- (1) Install air intake duct.  
(2) Connect connector to mass air flow sensor.

21) Connect battery ground cable.

22) Fill ATF. (AT model)

<Ref. to 3-2 [W2A0].>

23) Check selector lever operation. (AT model)

<Ref. to 3-3 [W2E0].>

24) Take off vehicle from lift arms.

25) Check the vehicle on road tester. (AT model)

<Ref. to 3-2 [W300].>