

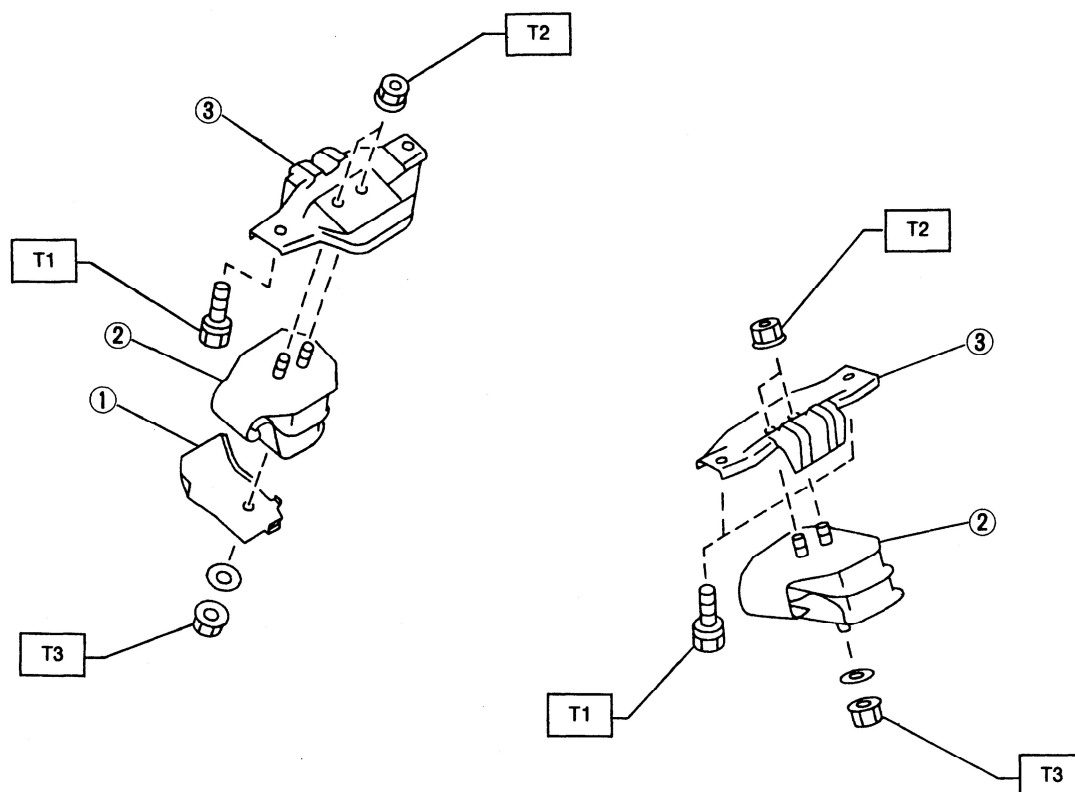
ENGINE AND TRANSMISSION
MOUNTING SYSTEM

2-11

	Page
C COMPONENT PARTS	2
1. Engine Mounting.....	2
2. Transmission Mounting.....	3
W SERVICE PROCEDURE	4
1. General Precaution	4
2. Engine	5
3. Transmission.....	29

- The descriptions in this section apply to the turbo model.

1. Engine Mounting



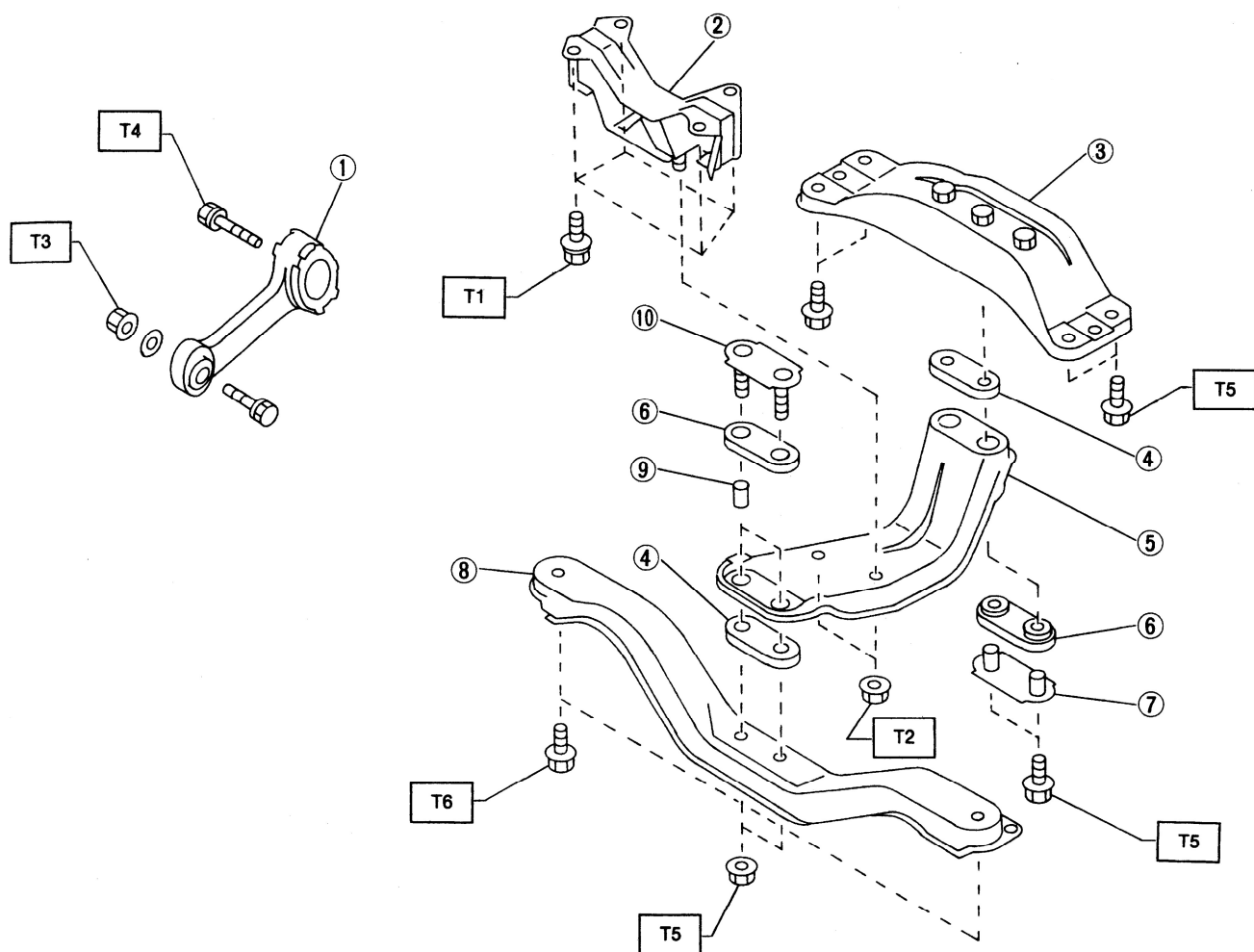
G2M0787

- ① Heat shield cover
- ② Front cushion rubber
- ③ 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

3. TURBO MODEL



G2M0833

- ① Pitching stopper
- ② Rear cushion rubber (AWD)
- ③ Rear crossmember
- ④ Cushion D
- ⑤ Center crossmember
- ⑥ Cushion C
- ⑦ Rear plate
- ⑧ Front crossmember
- ⑨ Spacer
- ⑩ Front plate

Tightening torque: N·m (kg-m, ft-lb)

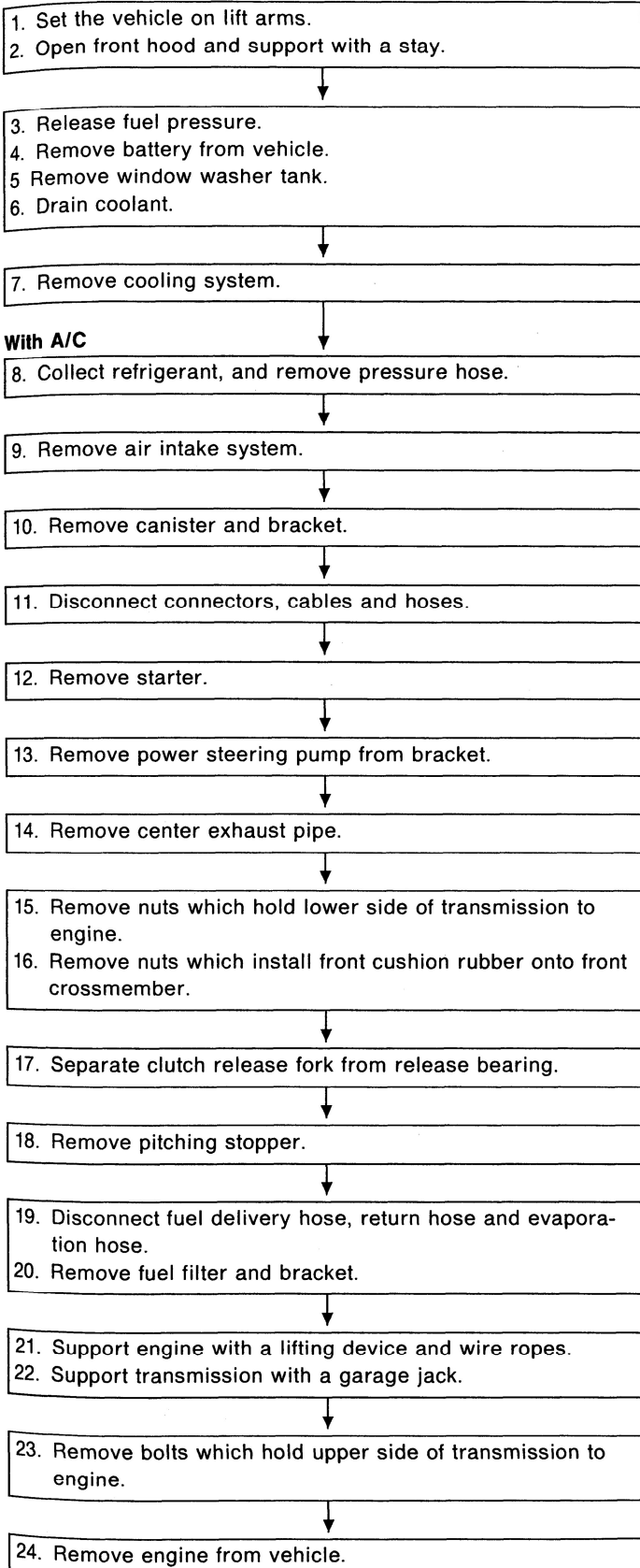
T1:	28 — 38 (2.9 — 3.9, 21 — 28)
T2:	27 — 47 (2.8 — 4.8, 20 — 35)
T3:	44 — 54 (4.5 — 5.5, 33 — 40)
T4:	47 — 67 (4.8 — 6.8, 35 — 49)
T5:	54 — 83 (5.5 — 8.5, 40 — 61)
T6:	118 — 157 (12 — 16, 87 — 116)

1. General Precaution

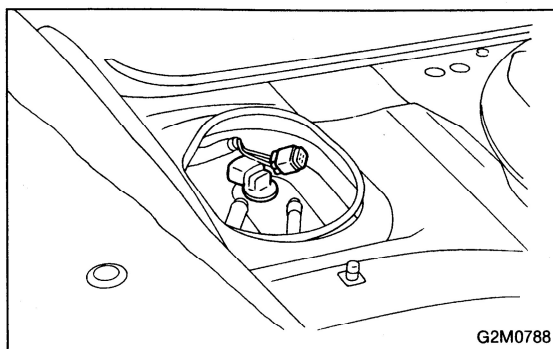
- 1) Remove or install engine and transmission in an area where chain hoists, lifting devices, etc. are available for ready use.
- 2) Be sure not to damage coated surfaces of body panels with tools or stain seats and windows with coolant or oil. Place a cover over fenders, as required, for protection.
- 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

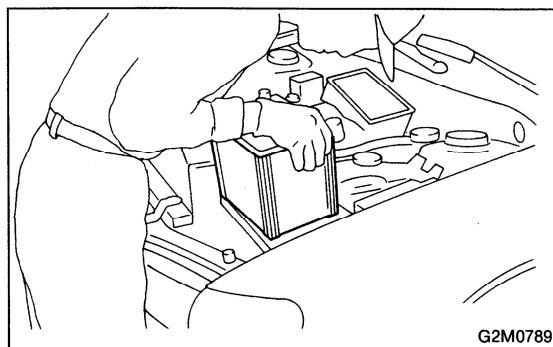
A: REMOVAL



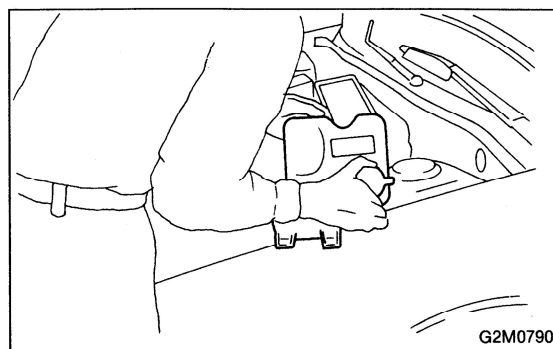
- 1) Set the vehicle on lift arms.
- 2) Open front hood fully and support with stay.



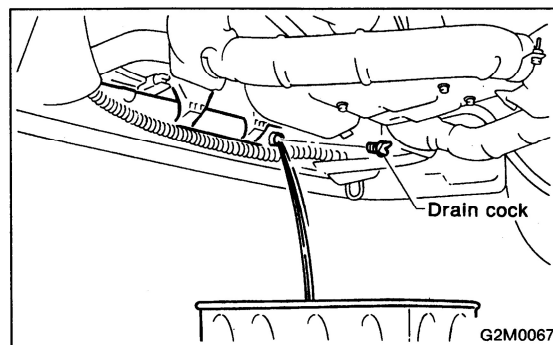
- 3) Release fuel pressure.
 - (1) Disconnect connector from fuel pump.
 - (2) Start the engine, and run until it stalls.
 - (3) After the engine stalls, crank it for five seconds more.
 - (4) Turn ignition switch to "OFF".<Ref. to 2-8 [W101].>



- 4) Remove battery from vehicle.

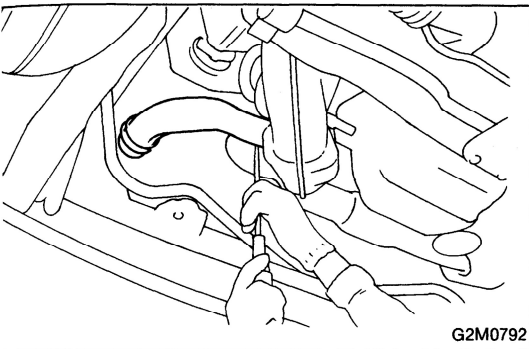


- 5) Remove window washer tank.

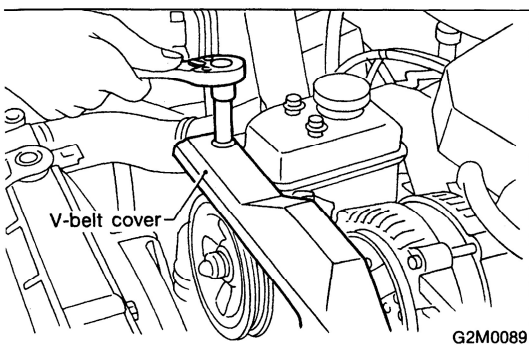


- 6) Drain coolant.
Set container under the vehicle, and remove drain cock from radiator.

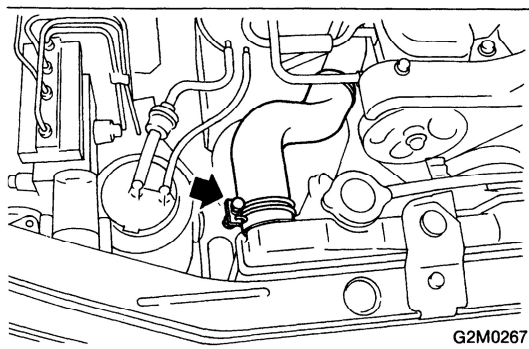
7) Remove cooling system.



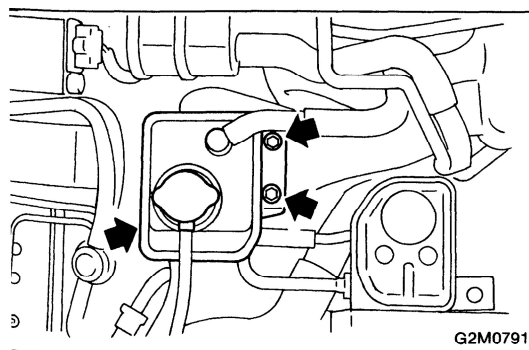
- (1) Disconnect radiator fan motor connector.
- (2) Disconnect radiator outlet hose from thermostat cover.



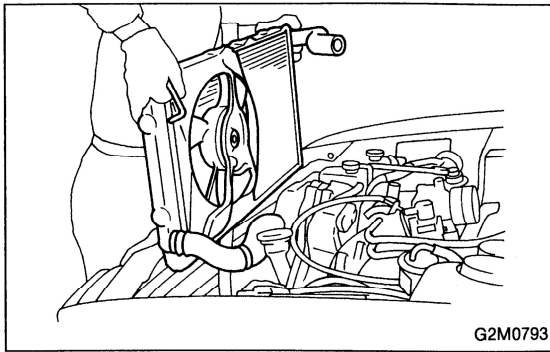
- (3) Remove V-belt cover.



- (4) Disconnect radiator inlet hose from radiator.



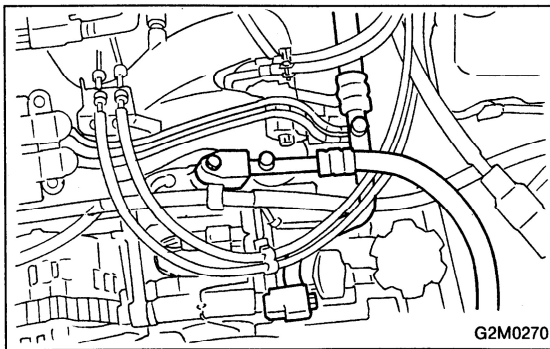
- (5) Remove coolant filler tank.



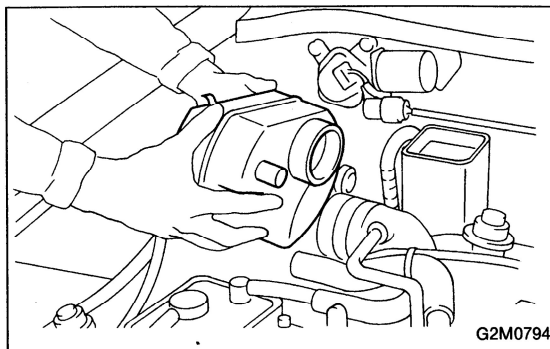
(6) Remove radiator upper bracket, and remove radiator assembly from vehicle.

8) 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.

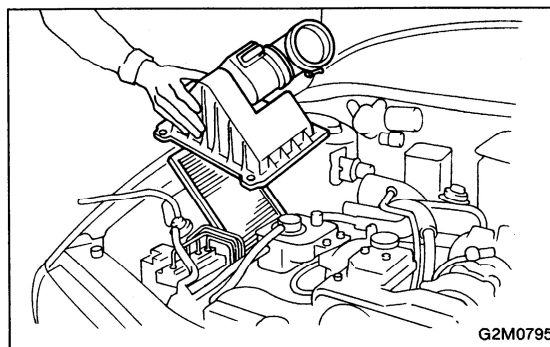


(3) Disconnect A/C pressure hoses from A/C compressor.

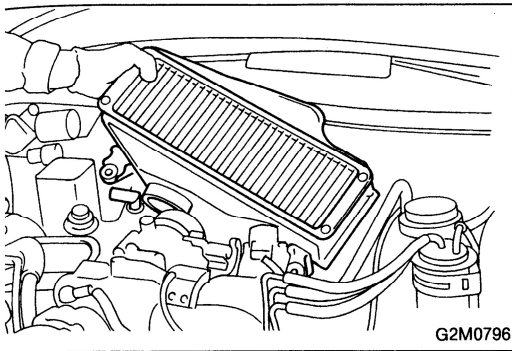


9) Remove air intake system.

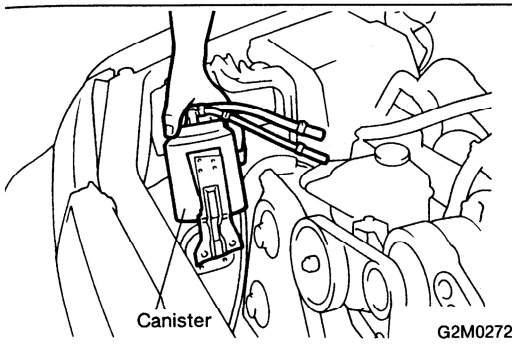
- (1) Remove resonator chamber.



- (2) Disconnect connector from mass air flow sensor.
- (3) Remove air cleaner upper cover and air cleaner element.



(4) Remove intercooler.

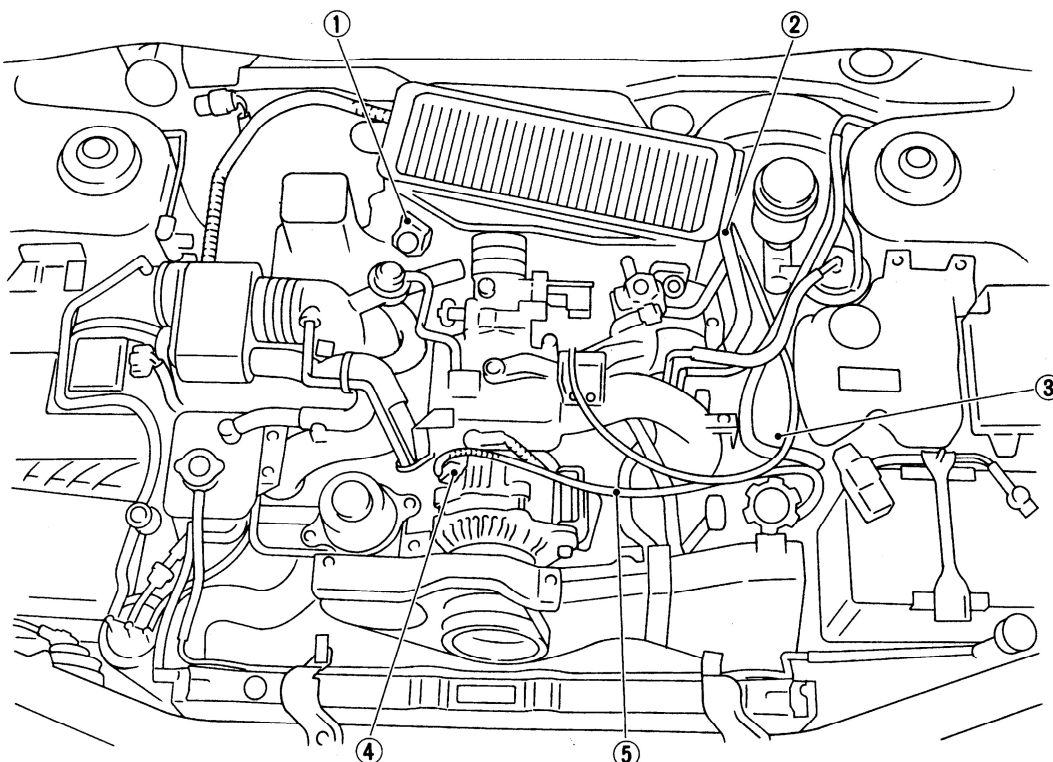


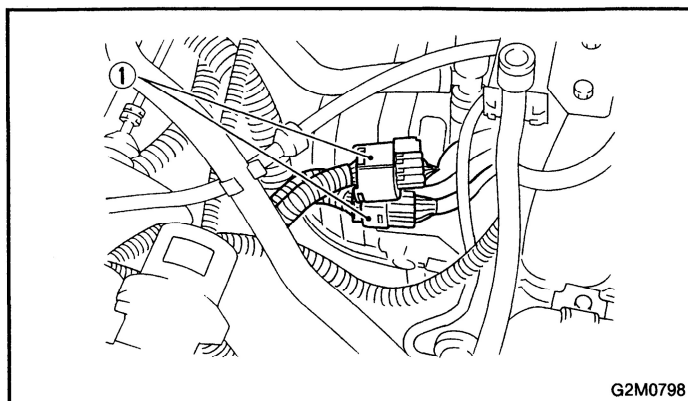
10) Remove canister and bracket.

11) Disconnect connectors, cables and hoses.

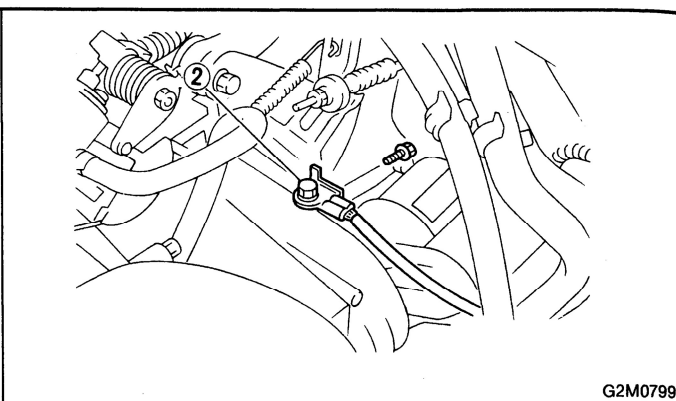
(1) Disconnect the following connectors.

- ① Engine harness connectors
- ② Engine ground terminal
- ③ Battery ground harness
- ④ Alternator connector and terminal
- ⑤ A/C compressor connectors (With A/C)

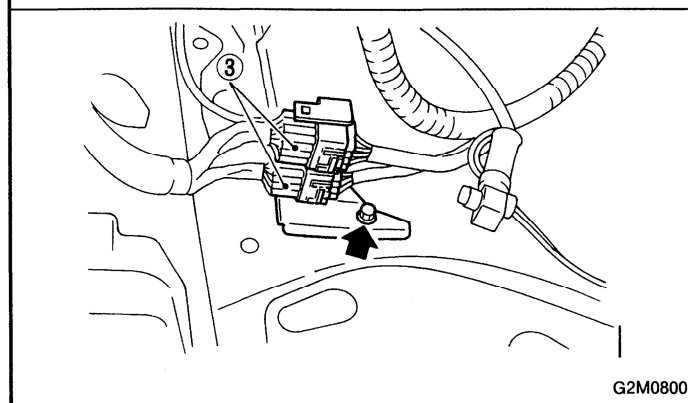




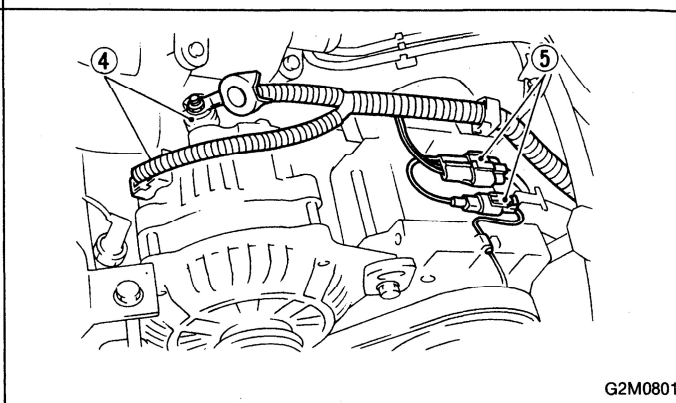
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G2M0799



G2M0800

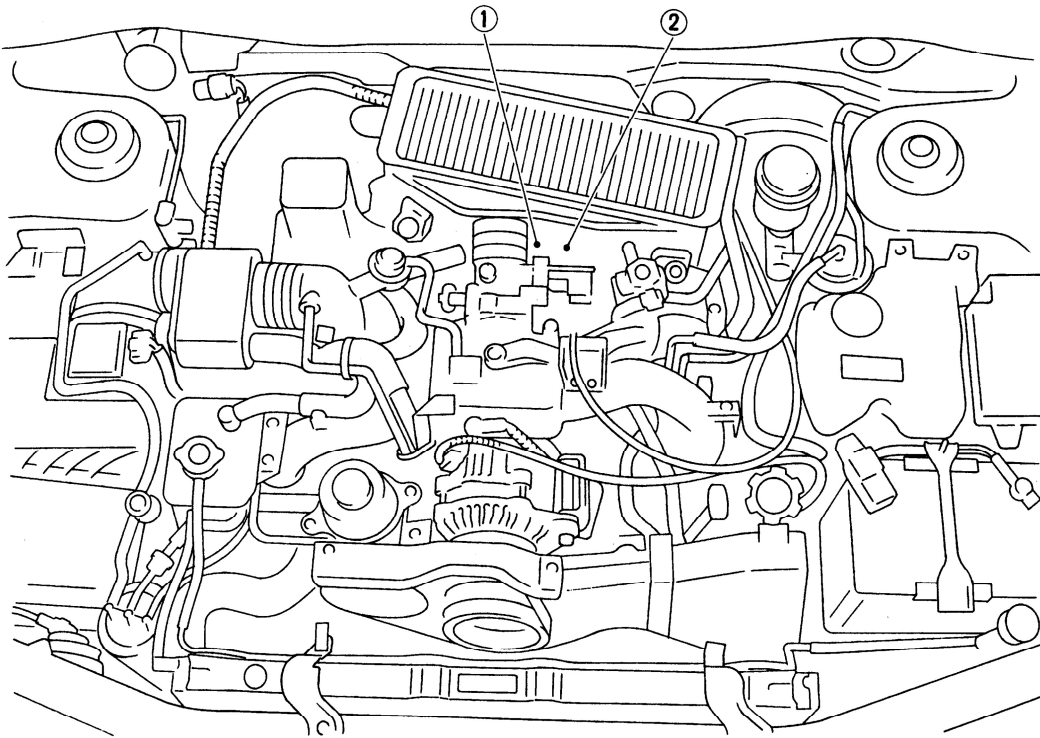


G2M0801

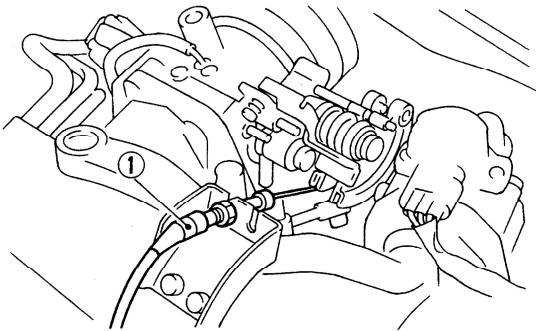
CAUTION:
When disconnecting battery ground harness ③, remove bracket.

(2) Disconnect the following cables.

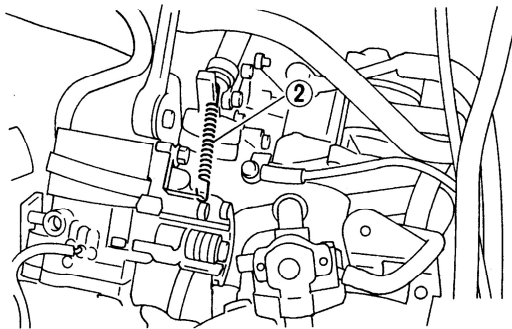
- ① Accelerator cable
- ② Clutch release spring



G2M0802



G2M0803

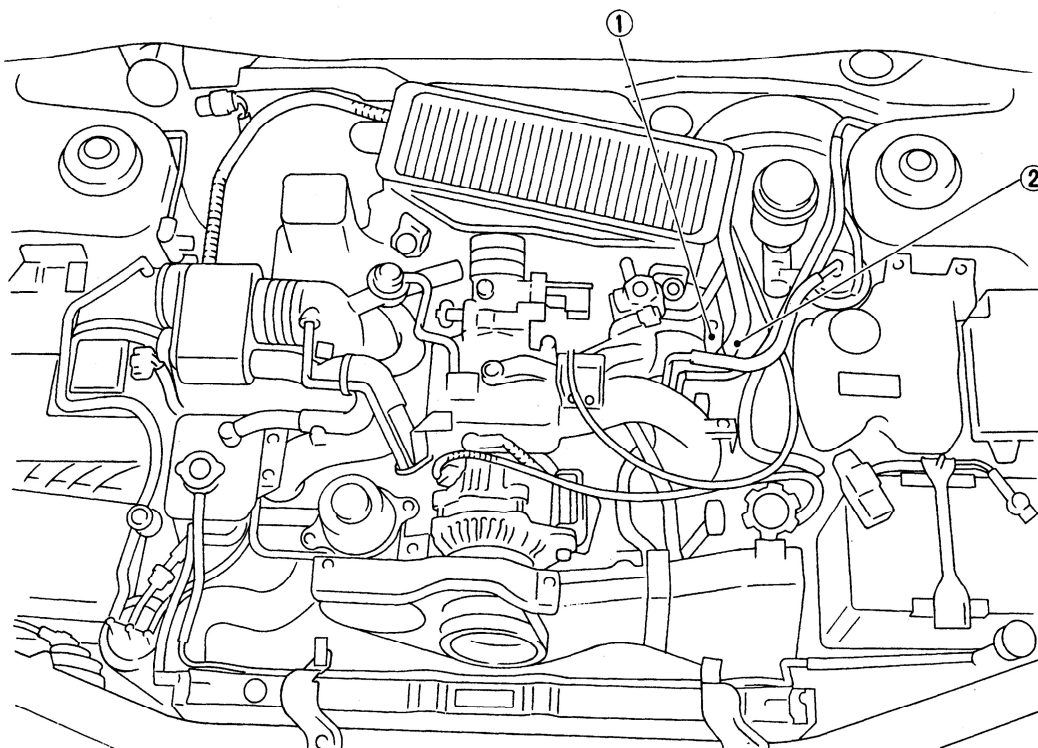


G2M0804

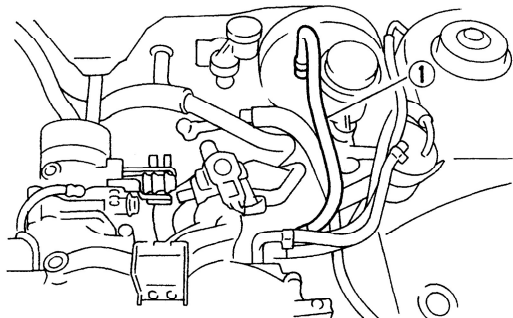
SERVICE PROCEDURE

(3) Disconnect the following hoses.

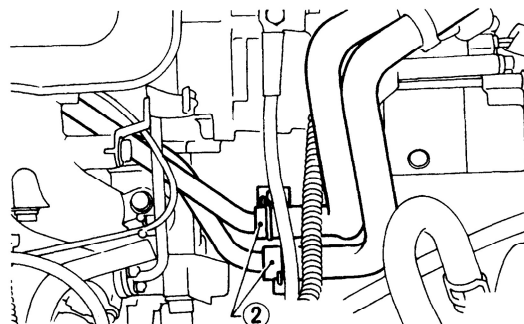
- ① Brake booster vacuum hose
- ② Heater inlet and outlet hoses



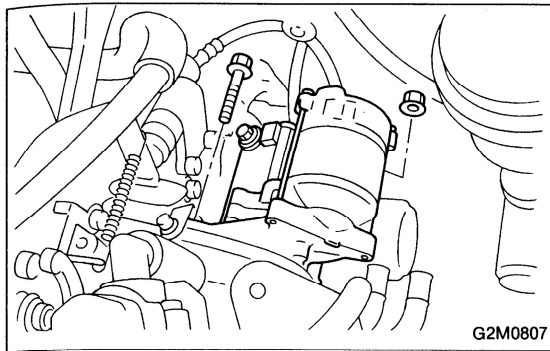
G2M0805



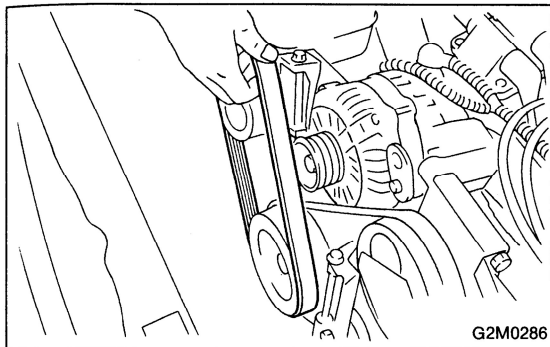
G2M0806



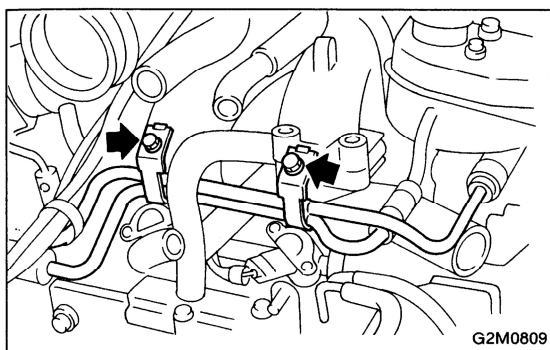
G2M0808



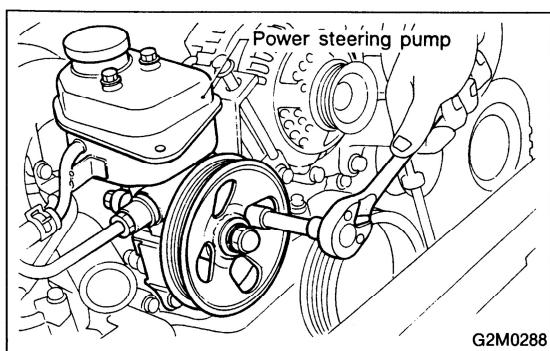
12) Remove starter.



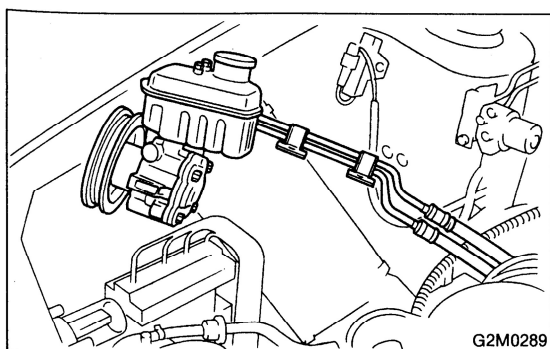
13) Remove power steering pump from bracket.
(1) Loosen lock bolt and slider bolt, and remove front side V-belt.



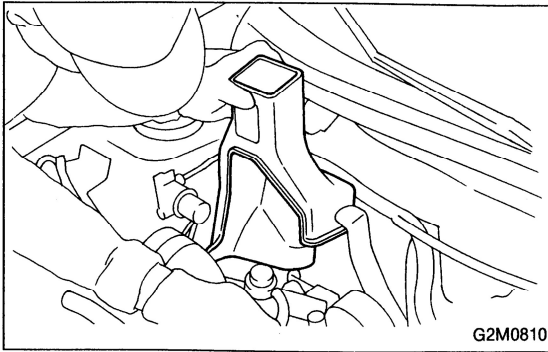
(2) Remove pipe with bracket from intake manifold.



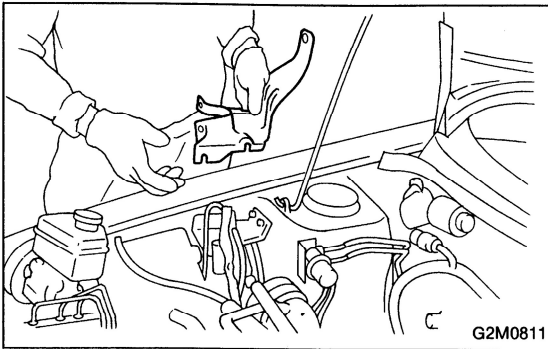
(3) Remove bolts which install power steering pump from bracket.



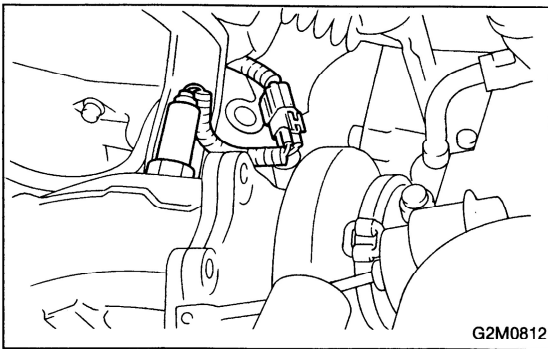
(4) Place power steering pump on the right side wheel apron.



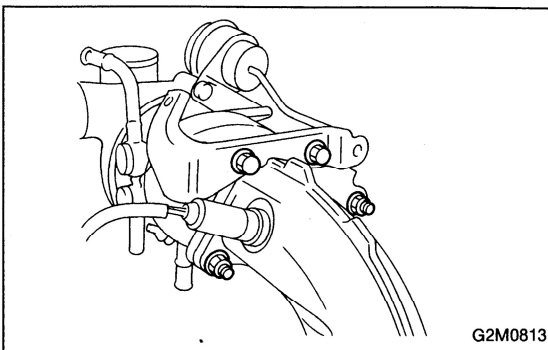
- 14) Remove center exhaust pipe.
(1) Remove turbocharger cooling duct.



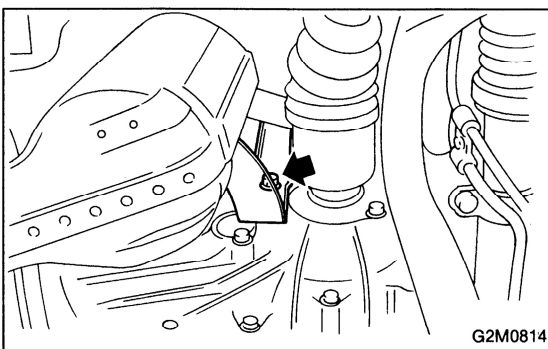
- (2) Remove turbocharger lower cover.



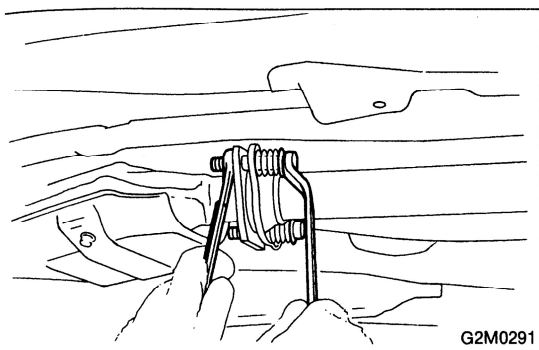
- (3) Disconnect connector from oxygen sensor.



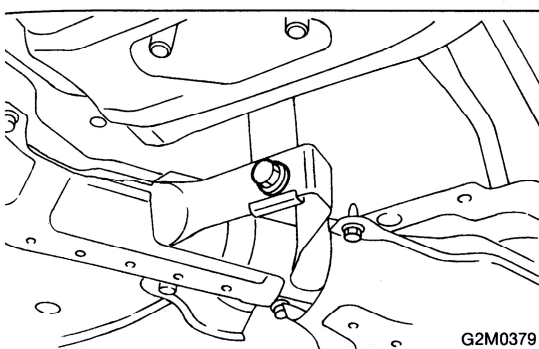
- (4) Remove nuts and bolts which install center exhaust pipe to turbocharger.



- (5) Lift up the vehicle.
(6) Remove intercooler bracket.



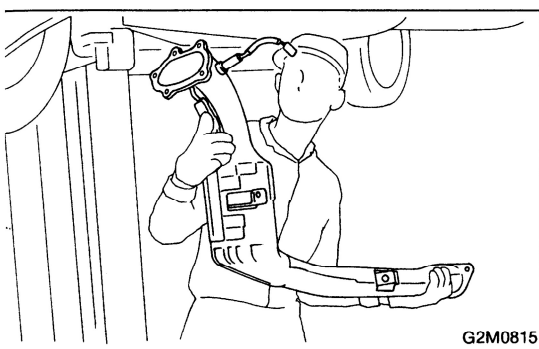
(7) Separate center exhaust pipe from rear exhaust pipe.



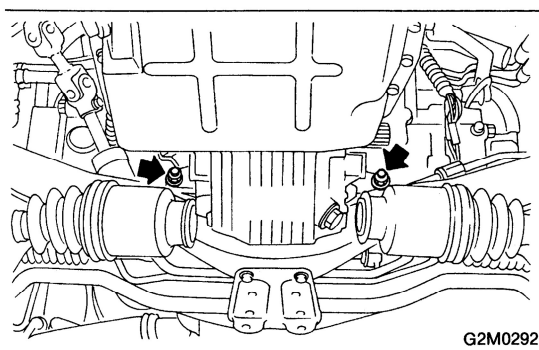
(8) Remove bolt which installs center exhaust pipe on hanger bracket.

CAUTION:

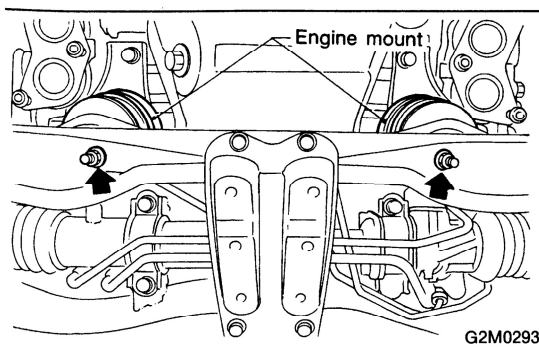
Exhaust pipe will drop when all bolts are removed. So, hold it when removing the last bolt.



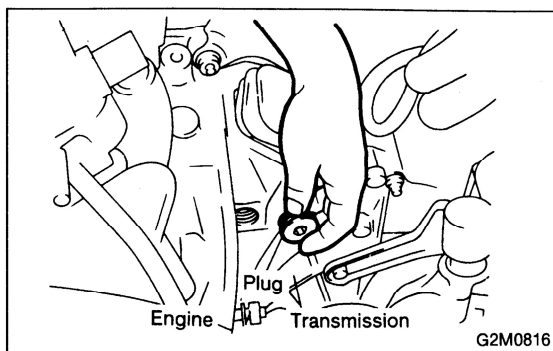
(9) Remove center exhaust pipe.



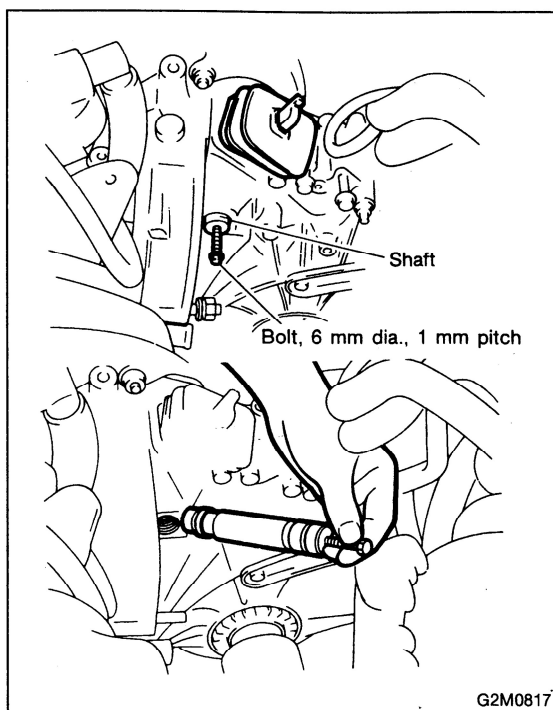
15) Remove nuts which hold lower side of transmission to engine.



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



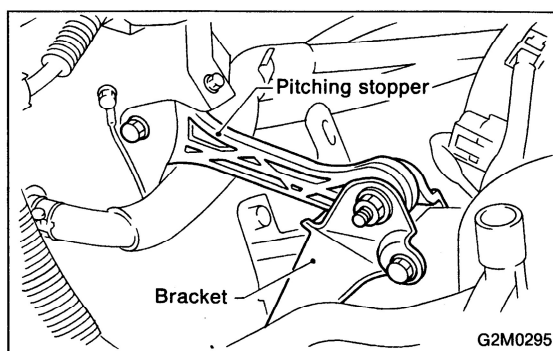
- 17) Separate clutch release fork from release bearing.
(1) Remove clutch operating cylinder from transmission.
(2) Remove plug using 10 mm hexagon wrench.



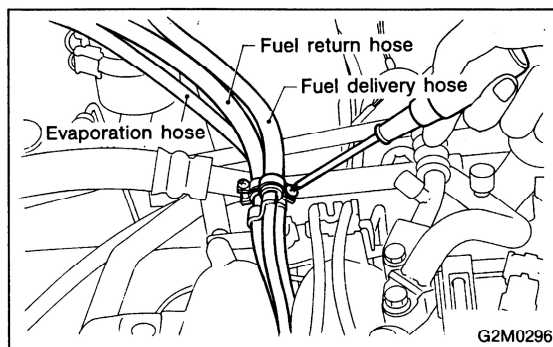
- (3) Screw 6 mm dia. bolt into release fork shaft, and remove it.
(4) Raise release fork and unfasten release bearing tabs to free release fork.

CAUTION:

Step (4) is required to prevent interference with engine when removing engine from transmission.



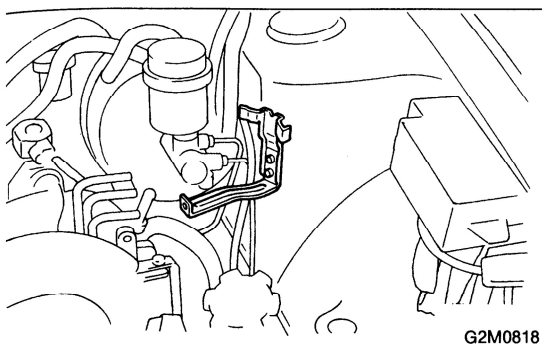
- 18) Remove pitching stopper.



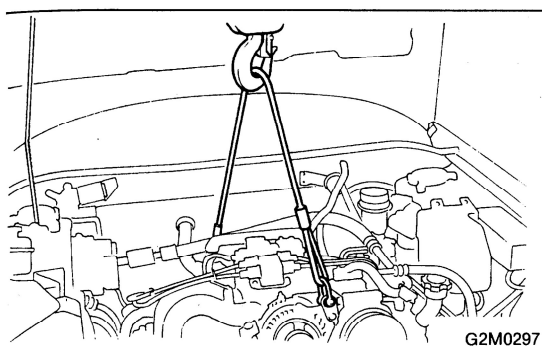
- 19) Disconnect fuel delivery hose, return hose and evaporation hose.

CAUTION:

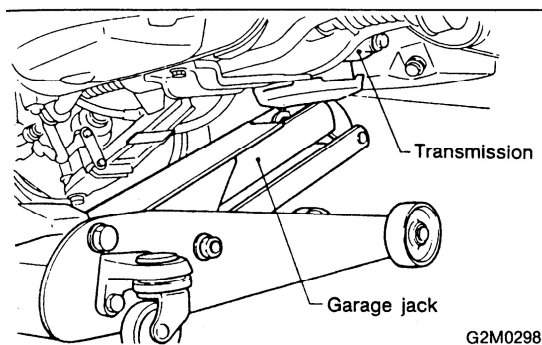
Catch fuel from hose into container.



20) Remove fuel filter and bracket.



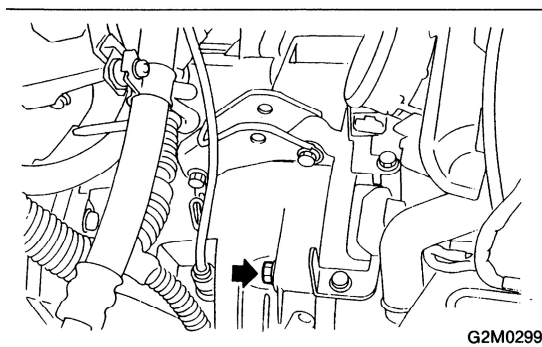
21) Support engine with a lifting device and wire ropes.



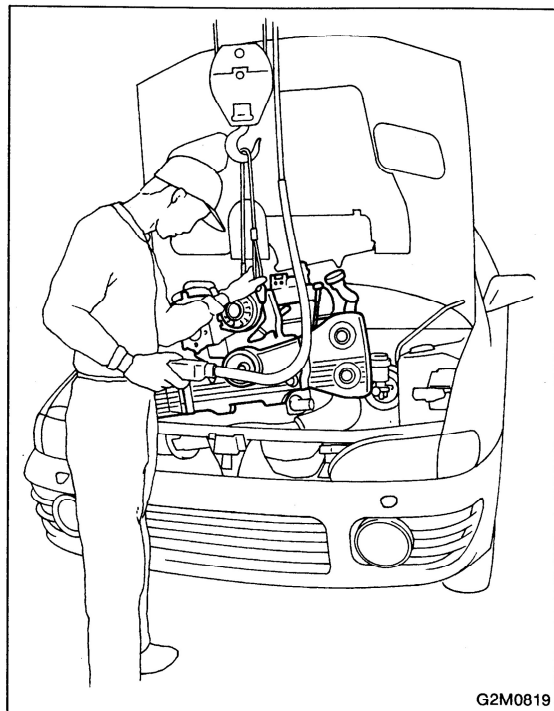
22) Support transmission with a garage jack.

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.



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



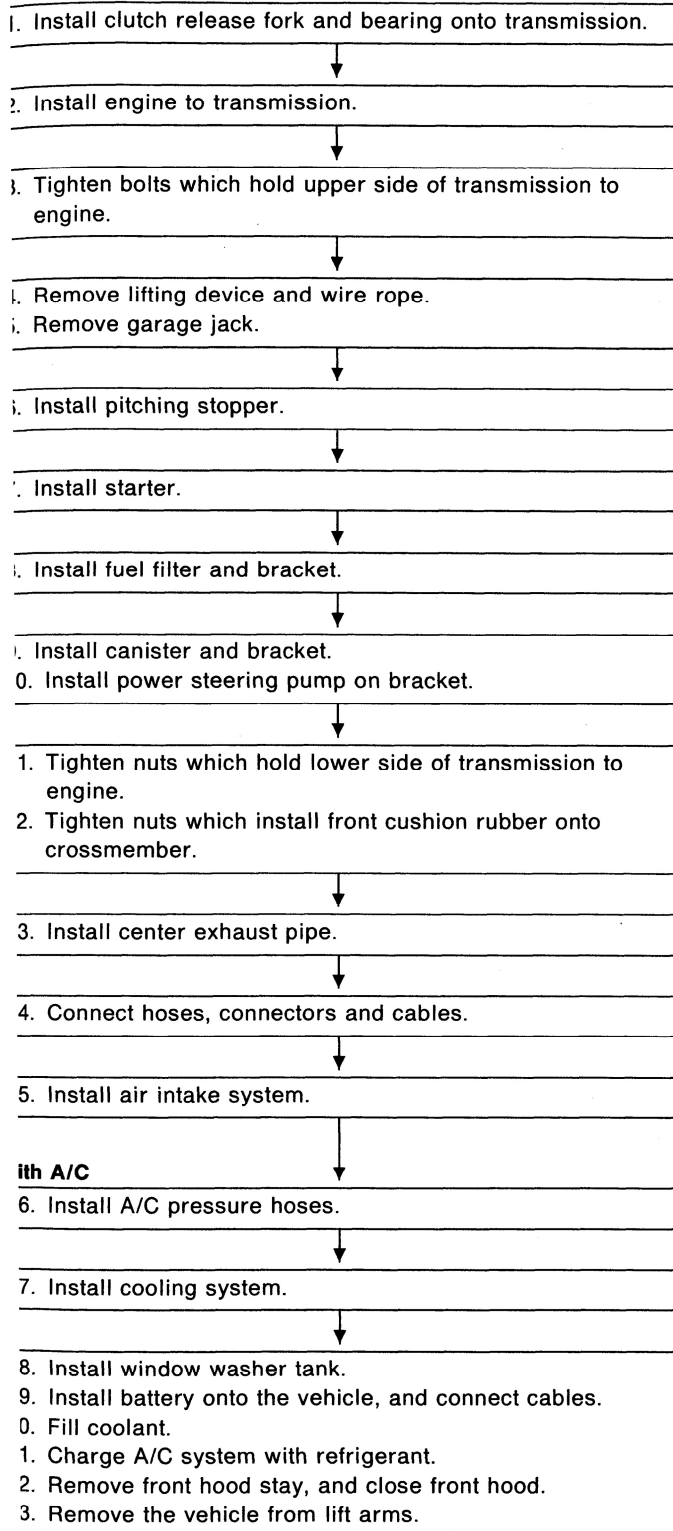
24) Remove engine from vehicle.

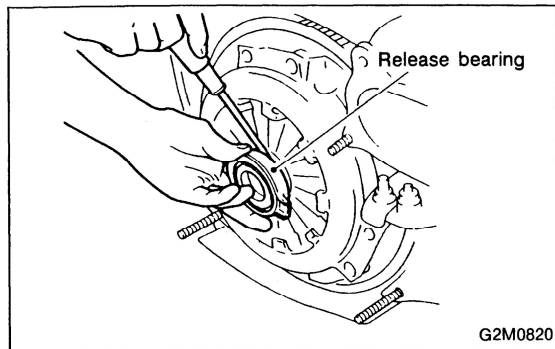
- (1) Slightly raise engine.
- (2) Raise transmission with garage jack.
- (3) Move engine horizontally until mainshaft is withdrawn from clutch cover.
- (4) Slowly move engine away from engine compartment.

CAUTION:

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

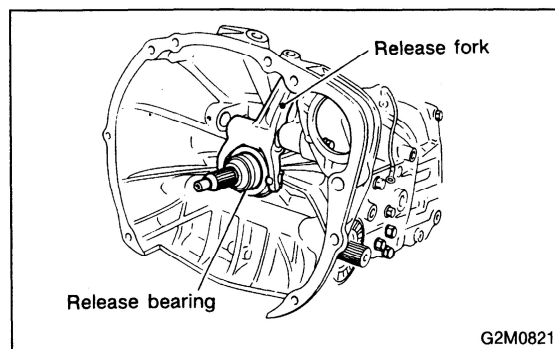
B: INSTALLATION





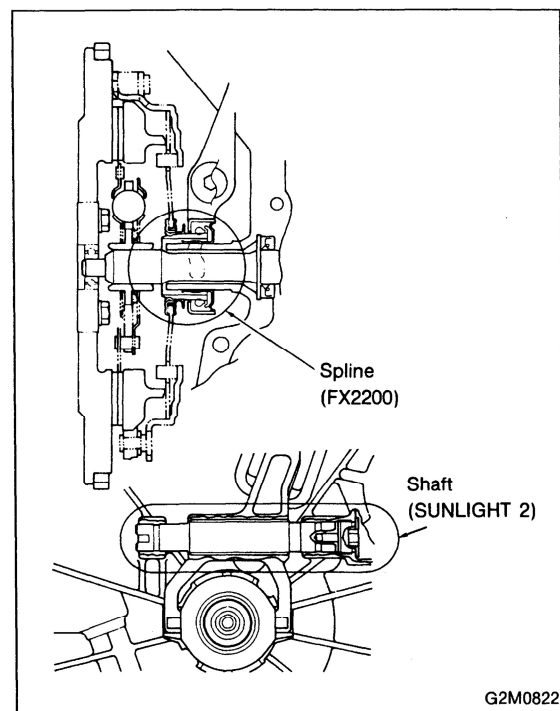
1) Install clutch release fork and bearing onto transmission.

(1) Remove release bearing from clutch cover with flat type screw driver.



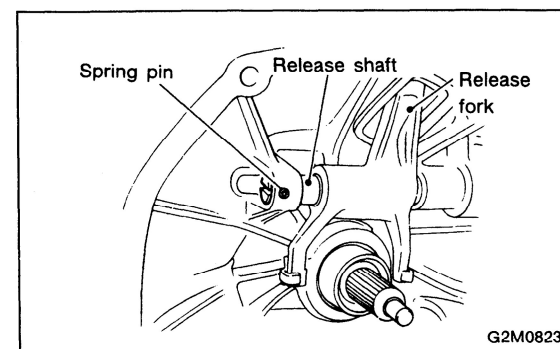
(2) Install release bearing on transmission.

(3) Insert release fork into release bearing tab.



(4) Apply grease to specified points:

- Spline FX2200
- Shaft SUNLIGHT 2



(5) Insert release fork shaft into release fork.

CAUTION:

Make sure the cutout portion of release fork shaft contacts spring pin.