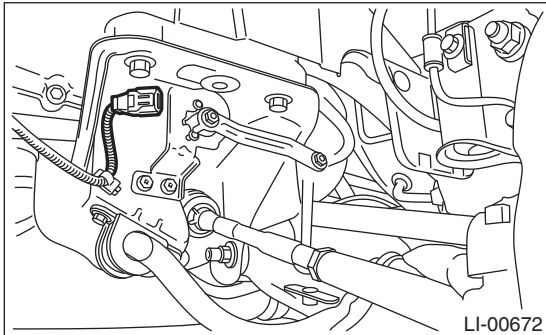


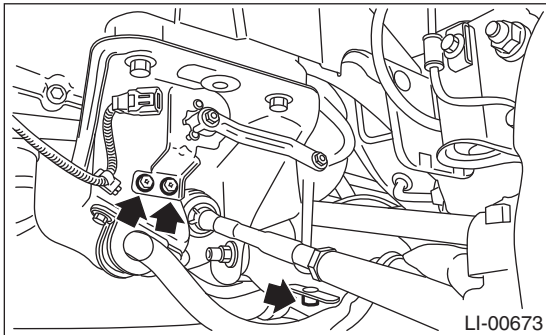
8. Front Crossmember

A: REMOVAL

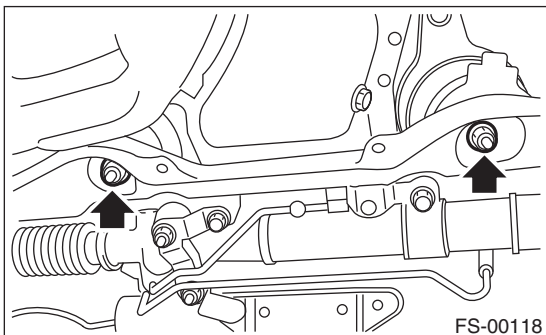
- 1) Disconnect the ground cable from the battery.
- 2) Lift up the vehicle, and then remove the front wheels.
- 3) Disconnect the front vehicle height sensor connector (models with auto headlight beam leveler, left side only).



- 4) Remove the front vehicle height sensor (models with auto headlight beam leveler, left side only).



- 5) Remove the front exhaust pipe.
- 6) Remove the front crossmember support plate. <Ref. to FS-15, REMOVAL, Front Crossmember Support Plate.>
- 7) Remove the front stabilizer. <Ref. to FS-16, REMOVAL, Front Stabilizer.>
- 8) Disconnect the tie-rod end from housing.
- 9) Remove the front arm. <Ref. to FS-19, REMOVAL, Front Arm.>
- 10) Remove the nuts attaching the engine mount cushion rubber to crossmember.



- 11) Remove the steering universal joint.

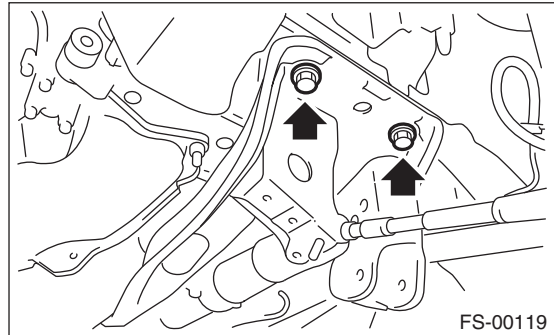
- 12) Disconnect the power steering hose from steering gearbox.

- 13) Lift the engine approx. 10 mm (0.39 in) using a chain block.

- 14) Support the crossmember with a jack, remove the bolts securing crossmember to body, and then gradually lower the crossmember with steering gearbox as a unit.

CAUTION:

When removing the crossmember downward, be careful that the tie-rod end does not interfere with drive shaft boot.



B: INSTALLATION

1) Install in the reverse order of removal.

CAUTION:

- Use a new bolt and self-locking nut. For parts which are not reusable, refer to “COMPONENT”. <Ref. to FS-3, COMPONENT, General Description.>
- Always tighten the stabilizer bushing in the state where the vehicle is at curb weight and the wheels are in full contact with the ground.

Tightening torque:

Crossmember to body:

95 N·m (9.7 kgf-m, 70.1 ft-lb)

Engine mounting to Crossmember:

85 N·m (8.7 kgf-m, 63 ft-lb)

Front arm to Crossmember:

95 N·m (9.7 kgf-m, 70.1 ft-lb)

Front arm to Support plate:

110 N·m (11.2 kgf-m, 81.1 ft-lb)

Support plate body:

150 N·m (15.3 kgf-m, 110.6 ft-lb)

Tie-rod end to Housing:

27.0 N·m (2.75 kgf-m, 19.9 ft-lb)

After tightening to the specified torque, tighten the castle nut further but within 60° until the hole in the ball stud is aligned with a slot in castle nut

Tightening torque:

Universal joint:

24 N·m (2.4 kgf-m, 17.4 ft-lb)

Stabilizer bracket:

25 N·m (2.5 kgf-m, 18.4 ft-lb)

Stabilizer link:

45 N·m (4.6 kgf-m, 33.2 ft-lb)

Power steering hose to Steering gearbox:

15 N·m (1.5 kgf-m, 10.8 ft-lb)

Front vehicle height sensor (models with auto headlight beam leveler, left side only):

7.5 N·m (0.76 kgf-m, 5.5 ft-lb)

2) Purge air from the power steering system.

3) Inspect the wheel alignment and adjust if necessary.

4) Re-initialize the auto headlight beam leveler system (models with auto headlight beam leveler). <Ref. to LI-15, PROCEDURE, Auto Headlight Beam Leveler System.>

C: INSPECTION

Check the crossmember for damage or cracks, and correct or replace if defective.