

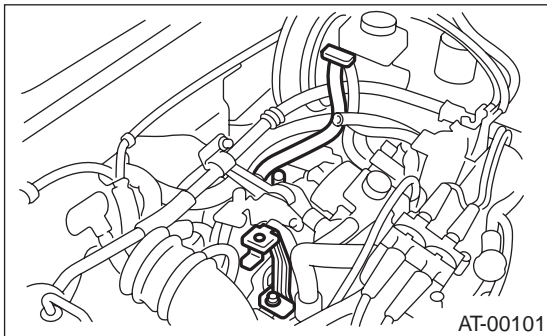
AUTOMATIC TRANSMISSION ASSEMBLY

AUTOMATIC TRANSMISSION

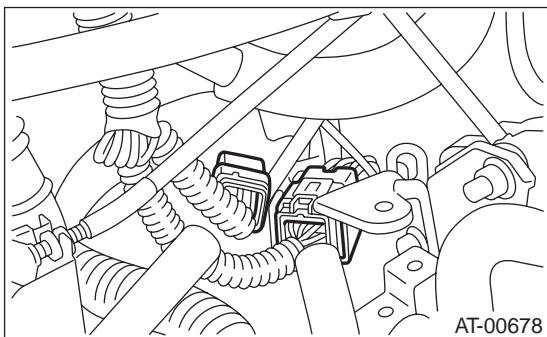
9. Automatic Transmission Assembly

A: REMOVAL

- 1) Set the vehicle on a lift.
- 2) Open front hood fully, and support with stay.
- 3) Disconnect battery ground cable.
- 4) Remove air intake duct.
2.5 L model
<Ref. to IN(H4SO)-6, REMOVAL, Air Intake Duct.>
3.0 L model
<Ref. to IN(H6DO)-7, REMOVAL, Air Intake Duct.>
- 5) Remove air cleaner case or air intake chamber.
2.5 L model
<Ref. to IN(H4SO)-5, REMOVAL, Air Cleaner Case.>
3.0 L model
<Ref. to IN(H6DO)-6, REMOVAL, Air Intake Chamber.>
- 6) Remove air cleaner case stay.

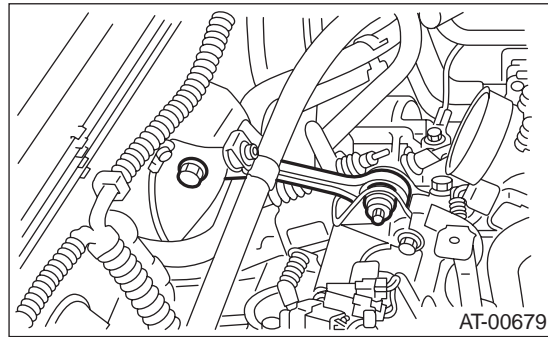


- 7) Disconnect the following connectors.
 - (1) Transmission harness connector



- (2) Transmission ground terminal
- 8) Remove starter.
Except 3.0 L model
<Ref. to SC(H4SO)-7, REMOVAL, Starter.>
3.0 L model
<Ref. to SC(H6DO)-6, REMOVAL, Starter.>

- 9) Remove pitching stopper.

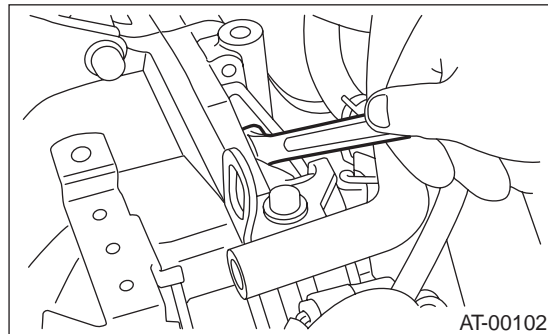


- 10) Separate torque converter clutch from drive plate.
 - (1) Remove service hole plug.
 - (2) Remove bolts which hold torque converter clutch to drive plate.
 - (3) While rotating the engine, remove other bolts using ST.

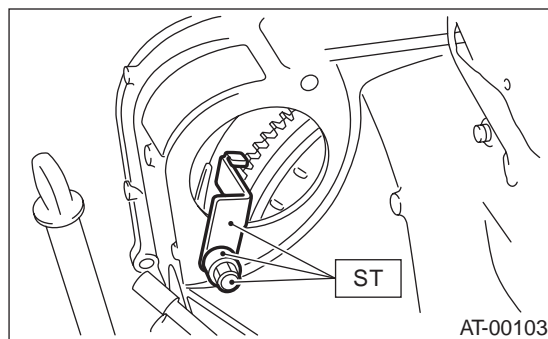
CAUTION:

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

ST 499977100 CRANK PULLEY WRENCH



- 11) Install ST to torque converter clutch case.
ST 498277200 STOPPER SET



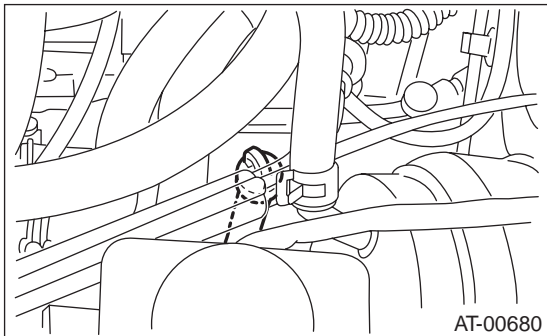
AUTOMATIC TRANSMISSION ASSEMBLY

AUTOMATIC TRANSMISSION

12) Remove ATF level gauge.

NOTE:

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

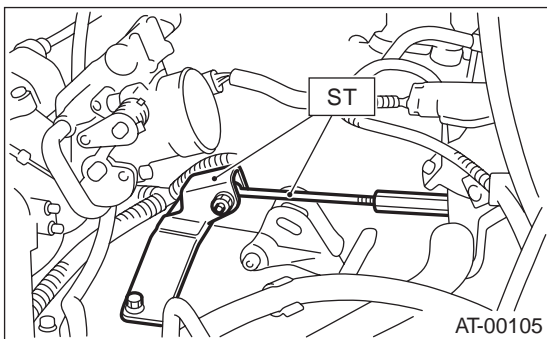


13) Set ST.

NOTE:

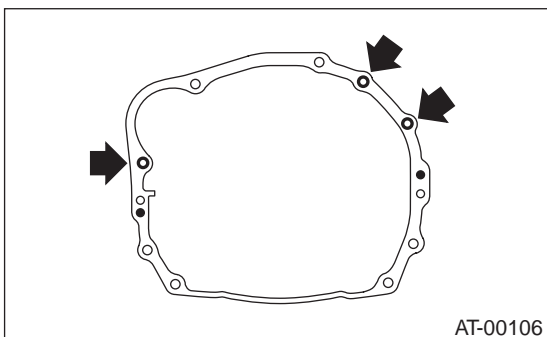
Also is available Part No. 41099AA010.

ST 41099AA020 ENGINE SUPPORT ASSY

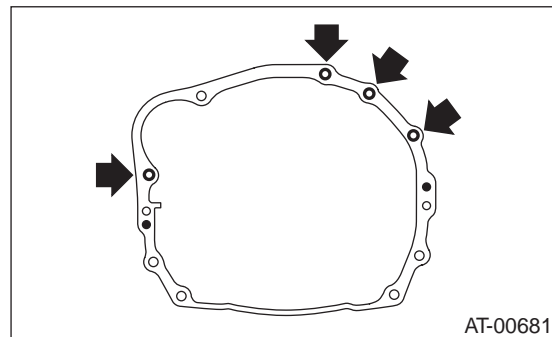


14) Remove bolt which holds right upper side of transmission to engine.

Except 3.0 L model



3.0 L model



15) Lift-up the vehicle.

16) Remove under cover.

17) Remove front, center, rear exhaust pipe and muffler.

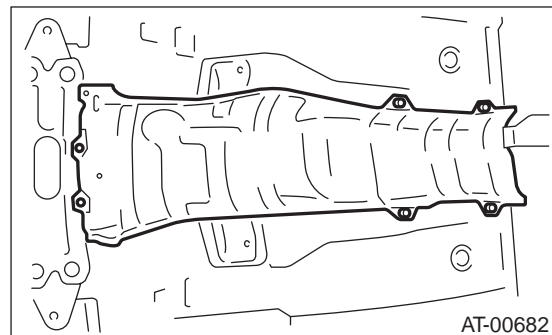
2.5 L model

<Ref. to EX(H4SO)-5, REMOVAL, Front Exhaust Pipe.>, <Ref. to EX(H4SO)-9, REMOVAL, Rear Exhaust Pipe.> and <Ref. to EX(H4SO)-10, REMOVAL, Muffler.>

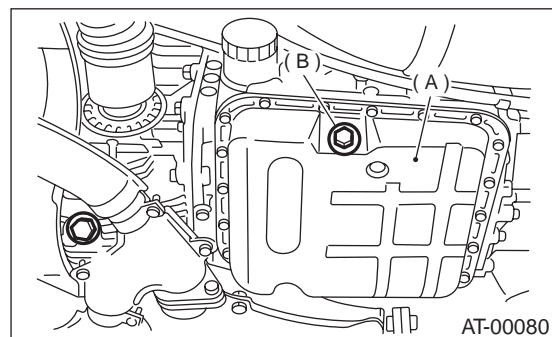
3.0 L model

<Ref. to EX(H6DO)-5, REMOVAL, Front Exhaust Pipe.>, <Ref. to EX(H6DO)-8, REMOVAL, Rear Exhaust Pipe.> and <Ref. to EX(H6DO)-9, REMOVAL, Muffler.>

18) Remove heat shield cover.



19) Drain ATF to remove ATF drain plug.



(A) Oil pan

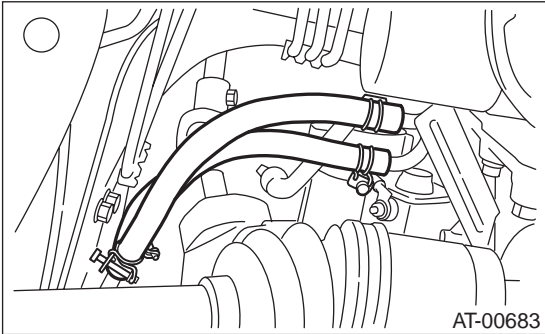
(B) Drain plug

AT-40

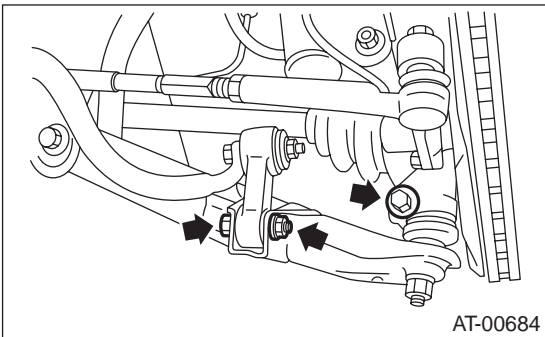
AUTOMATIC TRANSMISSION ASSEMBLY

AUTOMATIC TRANSMISSION

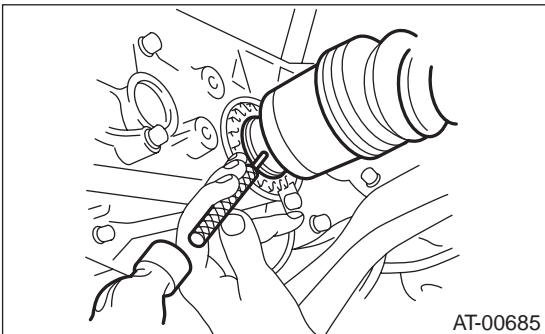
20) Disconnect ATF cooler hoses from pipes of transmission side, and remove ATF level gauge guide.



21) Remove propeller shaft.
 <Ref. to DS-14, REMOVAL, Propeller Shaft.>
 22) Remove shift select cable. <Ref. to CS-31, REMOVAL, Select Cable.>
 23) Disconnect stabilizer link from transverse link.
 24) Remove bolt securing ball joint of transverse link to housing.

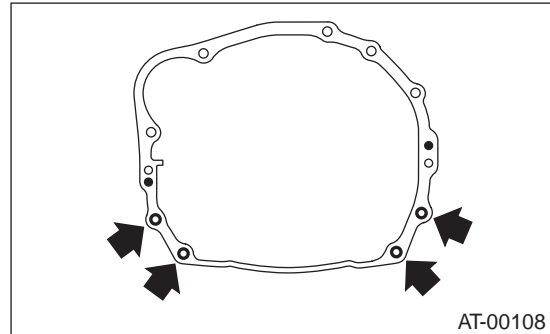


25) Remove spring pins and separate front drive shafts from each side of the transmission.

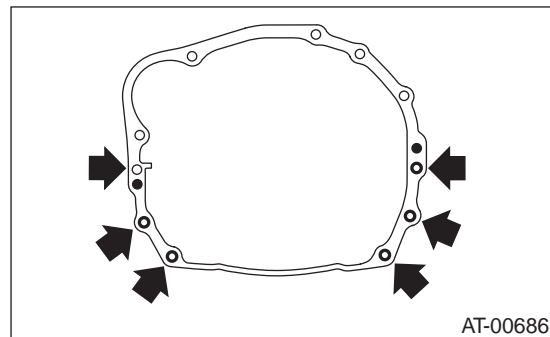


26) Remove nuts which hold lower side of transmission to engine.

Except 3.0 L model



3.0 L model

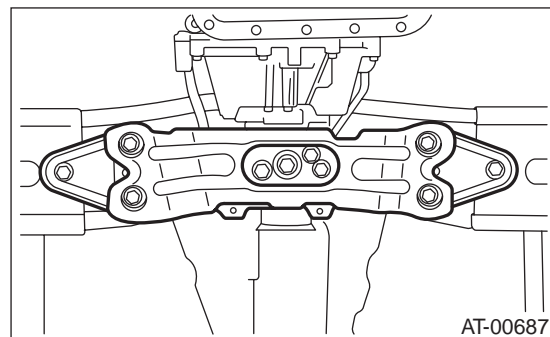


27) Place transmission jack under transmission.

NOTE:

Make sure that the support plates of transmission jack don't touch the oil pan.

28) Remove transmission rear crossmember from vehicle.



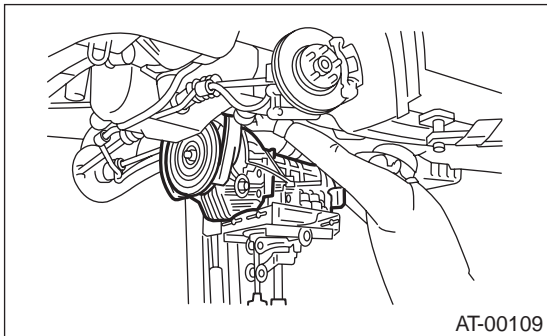
AUTOMATIC TRANSMISSION ASSEMBLY

AUTOMATIC TRANSMISSION

29) Remove transmission.

CAUTION:

Move transmission and torque converter as a unit away from engine.



30) Separate transmission assembly and rear cushion rubber.

B: INSTALLATION

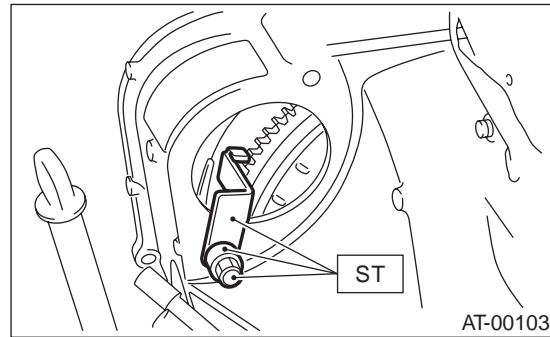
1) Install rear cushion rubber to transmission assembly.

Tightening torque:

39 N·m (4.0 kgf-m, 29 ft-lb)

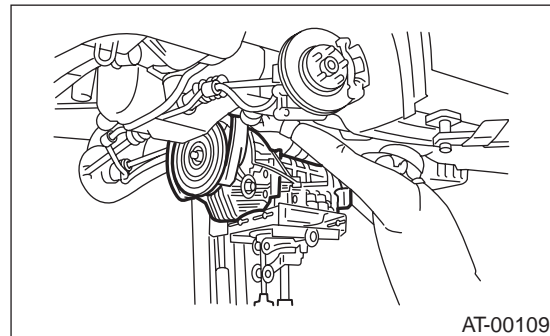
2) Install ST to torque converter clutch case.

ST 498277200 STOPPER SET



3) Install transmission onto engine.

(1) Gradually raise transmission with transmission jack.



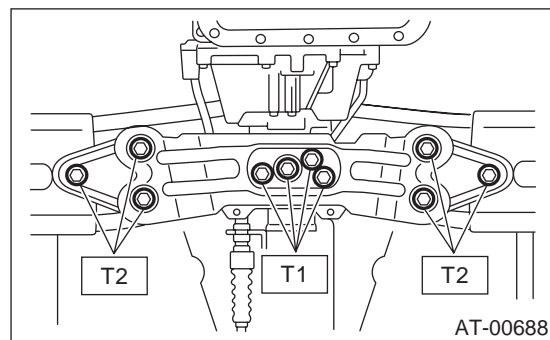
(2) Engage them at splines.

4) Install transmission rear crossmember.

Tightening torque:

T1: 35 N·m (3.6 kgf-m, 26 ft-lb)

T2: 75 N·m (7.6 kgf-m, 55 ft-lb)



5) Take off transmission jack.

AUTOMATIC TRANSMISSION ASSEMBLY

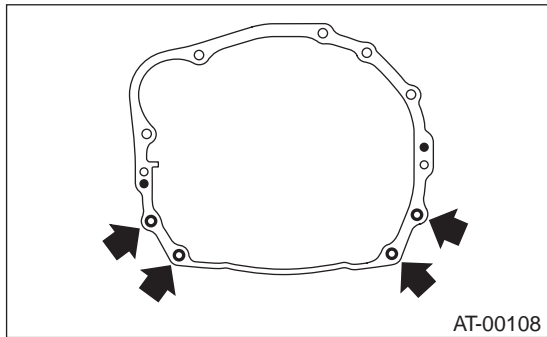
AUTOMATIC TRANSMISSION

6) Tighten nuts and bolts which hold lower side of transmission to engine.

Tightening torque:

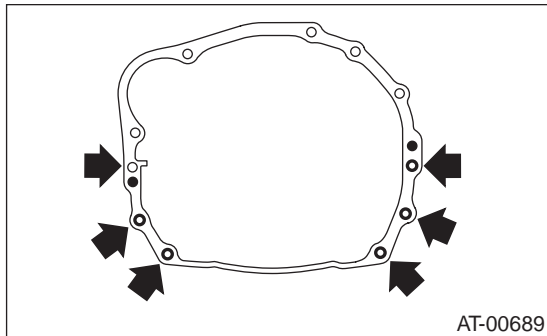
50 N·m (5.1 kgf·m, 36.9 ft·lb)

Except 3.0 L model



AT-00108

3.0 L model



AT-00689

7) Lower the vehicle.

8) Connect engine and transmission.

(1) 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

(2) Install starter.

Except 3.0 L model

<Ref. to SC(H4SO)-7, INSTALLATION, Starter.>

3.0 L model

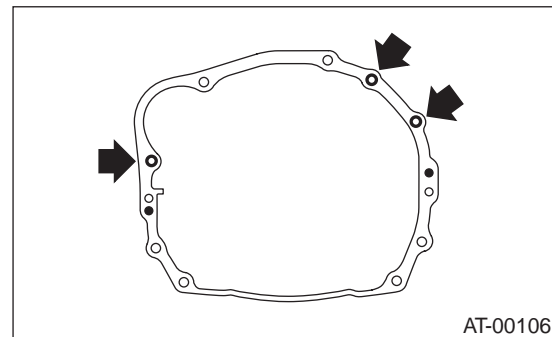
<Ref. to SC(H6DO)-6, INSTALLATION, Starter.>

(3) Tighten bolt which holds right upper side of transmission to engine.

Tightening torque:

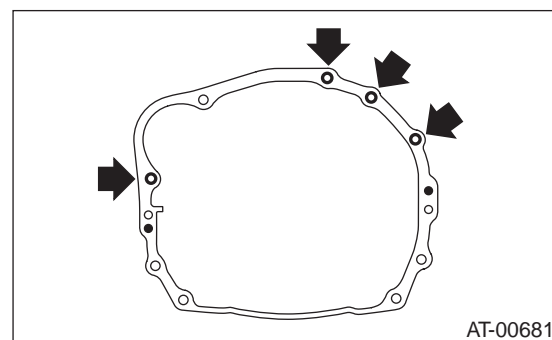
50 N·m (5.1 kgf·m, 36.9 ft·lb)

Except 3.0 L model



AT-00106

3.0 L model



AT-00681

9) Install torque converter clutch to drive plate.

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

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

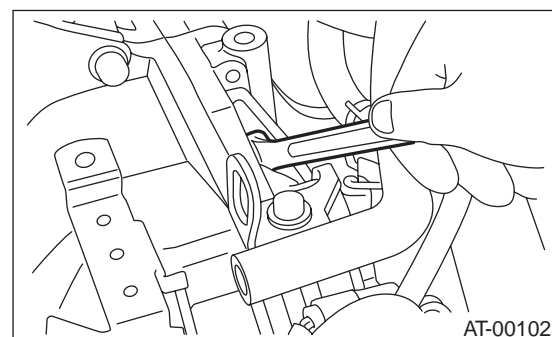
NOTE:

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)



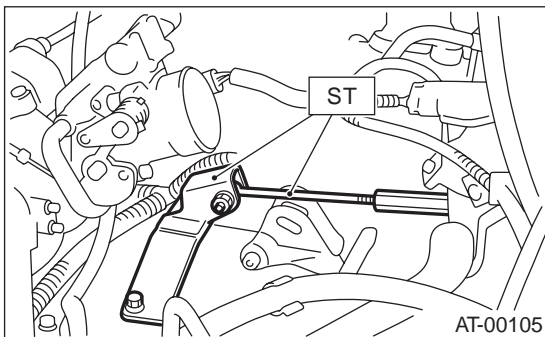
AT-00102

(3) Clog plug onto service hole.

AUTOMATIC TRANSMISSION ASSEMBLY

AUTOMATIC TRANSMISSION

10) Remove ST.

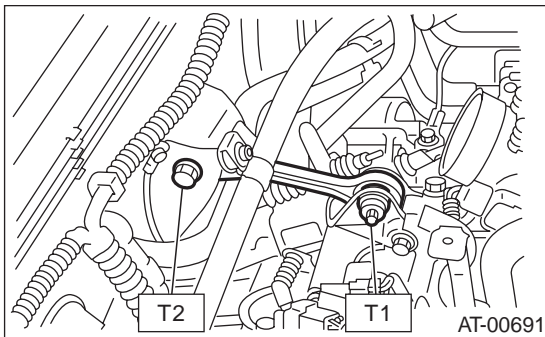


11) Install pitching stopper.

Tightening torque:

T1: 50 N·m (5.1 kgf-m, 37 ft-lb)

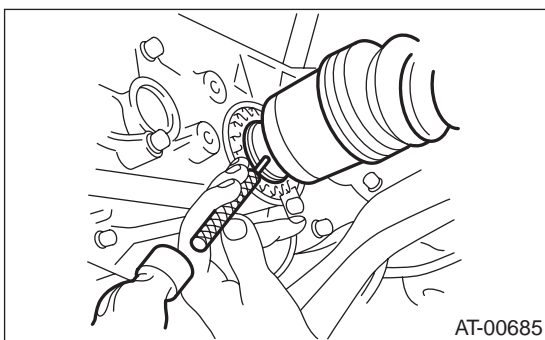
T2: 58 N·m (5.9 kgf-m, 43 ft-lb)



12) Lift-up the vehicle.

Install front drive shafts into transmission.

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



13) Install ball joint into housing.

14) Connect stabilizer link to transverse link, and temporarily tighten bolts.

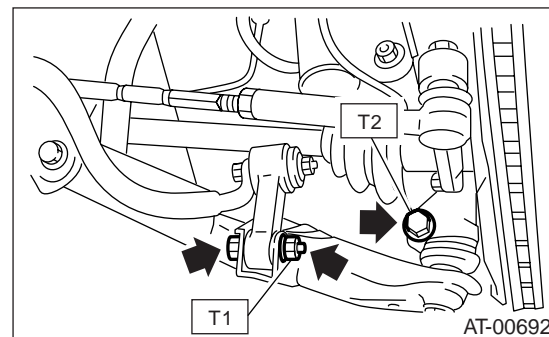
NOTE:

Discard loosened self-locking nut and replace with a new one.

Tightening torque:

T1: 30 N·m (3.1 kgf-m, 22.4 ft-lb)

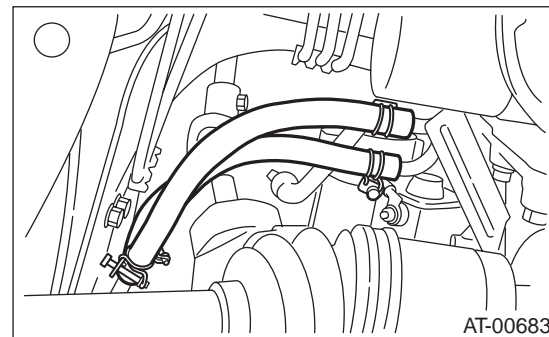
T2: 50 N·m (5.1 kgf-m, 37 ft-lb)



15) Install shift select cable onto select lever.

<Ref. to CS-31, INSTALLATION, Select Cable.>

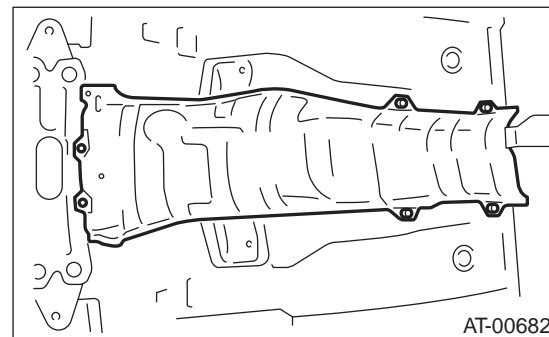
16) Install ATF level gauge guide, and connect ATF cooler hoses to pipe.



17) Install propeller shaft.

<Ref. to DS-15, INSTALLATION, Propeller Shaft.>

18) Install heat shield cover.



AUTOMATIC TRANSMISSION ASSEMBLY

AUTOMATIC TRANSMISSION

19) Install rear exhaust pipe and muffler assembly.

2.5 L model

<Ref. to EX(H4SO)-9, INSTALLATION, Rear Exhaust Pipe.> and <Ref. to EX(H4SO)-10, INSTALLATION, Muffler.>

3.0 L model

<Ref. to EX(H6DO)-8, INSTALLATION, Rear Exhaust Pipe.> and <Ref. to EX(H6DO)-9, INSTALLATION, Muffler.>

20) Install front and center exhaust pipe.

2.5 L model

<Ref. to EX(H4SO)-6, INSTALLATION, Front Exhaust Pipe.>

3.0 L model

<Ref. to EX(H6DO)-6, INSTALLATION, Front Exhaust Pipe.>

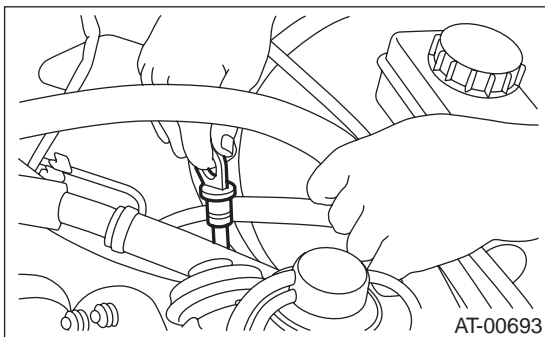
21) Install under cover.

22) Lower the vehicle.

23) Install ATF level gauge.

33) Check the vehicle on the road tester.

<Ref. to AT-32, Road Test.>



24) Connect the following connectors.

(1) Transmission harness connectors

(2) Transmission ground terminal

25) Connect the following cables.

(1) Cruise control cable (With cruise control vehicles)

26) Install air cleaner case stay.

Tightening torque:

16 N·m (1.6 kgf-m, 11.6 ft-lb)

27) Install air cleaner case or air intake chamber.

2.5 L model

<Ref. to IN(H4SO)-5, INSTALLATION, Air Cleaner Case.>

3.0 L model

<Ref. to IN(H6DO)-6, INSTALLATION, Air Intake Chamber.>

28) Connect battery ground cable.

29) Fill ATF up to the middle of the "COLD" side on level gauge by using the gauge hole. <Ref. to AT-30, Automatic Transmission Fluid.>

30) Take off vehicle from lift arms.

31) Check select lever operation.

<Ref. to AT-49, INSPECTION, Inhibitor Switch.>

32) Check the ATF level. <Ref. to AT-30, Automatic Transmission Fluid.>

AT-45