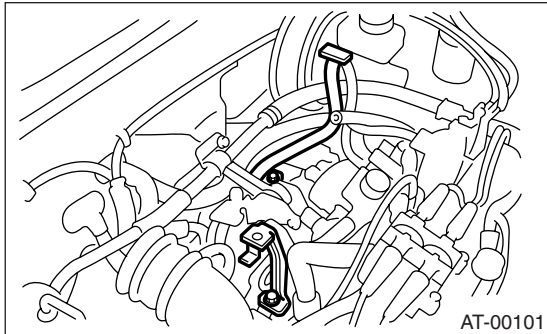


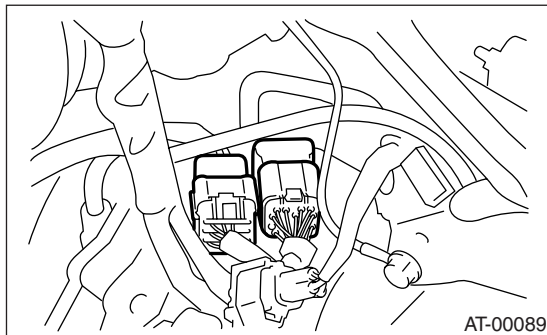
9. Automatic Transmission Assembly

A: REMOVAL

- 1) Set the vehicle on a lift.
- 2) Open the front hood fully, and support it with a stay.
- 3) Disconnect the battery ground cable.
- 4) Remove the resonator chamber. (Non-turbo model)
<Ref. to IN(H4SO)-8, REMOVAL, Resonator Chamber.>
- 5) Remove the air cleaner case or air intake chamber. (Non-turbo model)
<Ref. to IN(H4SO)-6, REMOVAL, Air Cleaner Case.>
- 6) Remove the intercooler. (Turbo model)
<Ref. to IN(H4DOTC)-10, REMOVAL, Intercooler.>
- 7) Remove the air cleaner case stay. (Non-turbo model)



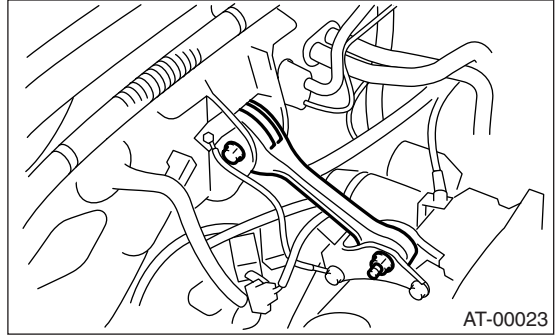
- 8) Disconnect the following connectors.
 - (1) Transmission harness connector



- (2) Transmission ground terminal

- 9) Remove the starter.
<Ref. to SC(H4SO)-6, REMOVAL, Starter.>

- 10) Remove the pitching stopper.

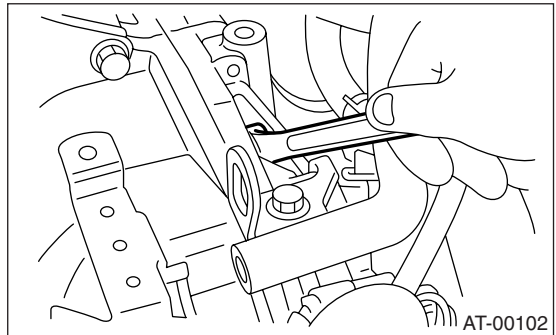


- 11) Separate the torque converter clutch assembly from drive plate.

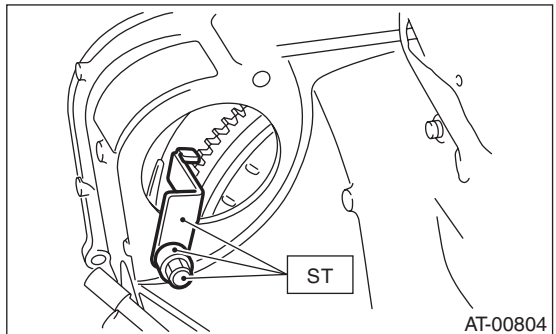
- (1) Remove the service hole plug.
- (2) Remove the bolts which hold the torque converter clutch assembly to drive plate.
- (3) While rotating the crankshaft sprocket, remove the other bolts using ST.

CAUTION:

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



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



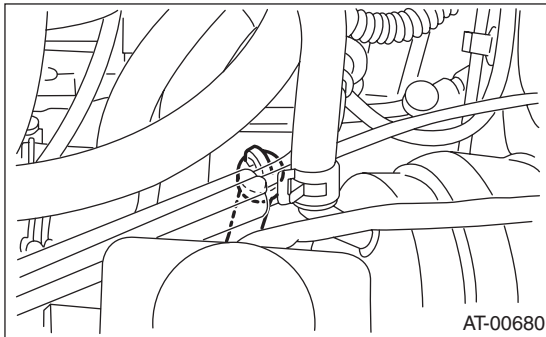
AUTOMATIC TRANSMISSION ASSEMBLY

AUTOMATIC TRANSMISSION

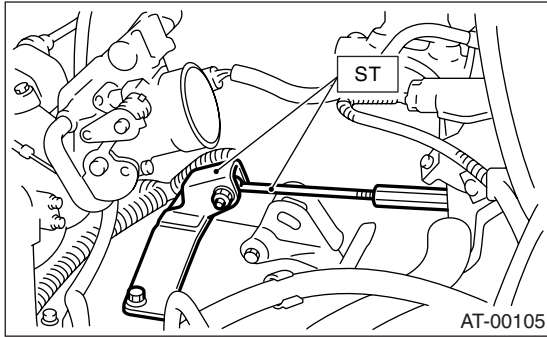
13) Remove the ATF level gauge.

CAUTION:

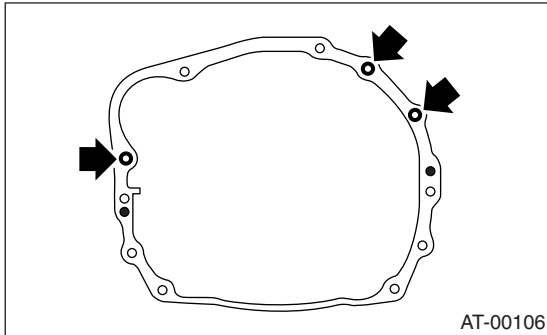
Plug the opening to prevent the entry of foreign particles into transmission fluid.



14) Set the ST.
ST 41099AA000 ENGINE SUPPORT ASSY



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



16) Lift-up the vehicle.

17) Remove the under cover.

18) Remove the front, center, rear exhaust pipe and muffler. (Non-turbo model)

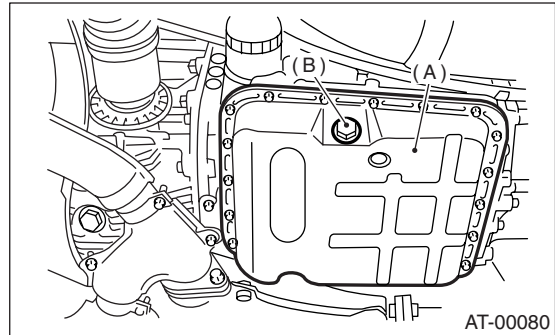
<Ref. to EX(H4SO)-4, REMOVAL, Front Exhaust Pipe.> <Ref. to EX(H4SO)-8, REMOVAL, Rear Exhaust Pipe.> <Ref. to EX(H4SO)-9, REMOVAL, Muffler.>

19) Remove the center and rear exhaust pipes, and muffler. (Turbo model)

<Ref. to EX(H4DOTC)-8, REMOVAL, Center Exhaust Pipe.> <Ref. to EX(H4DOTC)-13, REMOVAL, Rear Exhaust Pipe.> <Ref. to EX(H4DOTC)-15, REMOVAL, Muffler.>

20) Remove the heat shield cover. (If equipped)

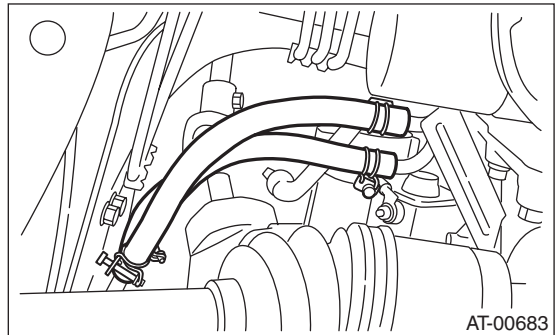
21) Drain ATF to remove the drain plug (ATF).



(A) Oil pan

(B) Drain plug (ATF)

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



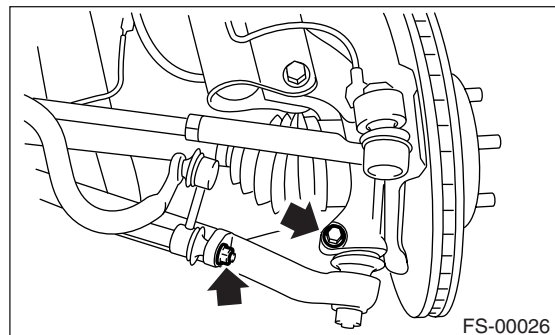
23) Remove the propeller shaft.

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

24) Remove the shift select cable. <Ref. to CS-26, REMOVAL, Select Cable.>

25) Disconnect the stabilizer link from transverse link.

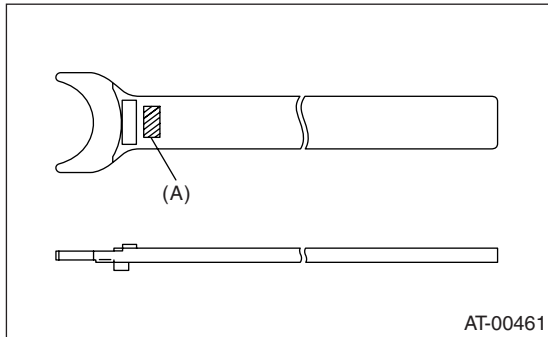
26) Remove the bolt securing ball joint of transverse link to housing.



AUTOMATIC TRANSMISSION ASSEMBLY

AUTOMATIC TRANSMISSION

- 27) Pull the front drive shaft out of transmission.
(1) Face the "AT" letter ST to transmission side.
ST 28399SA000 DRIVE SHAFT REMOVER

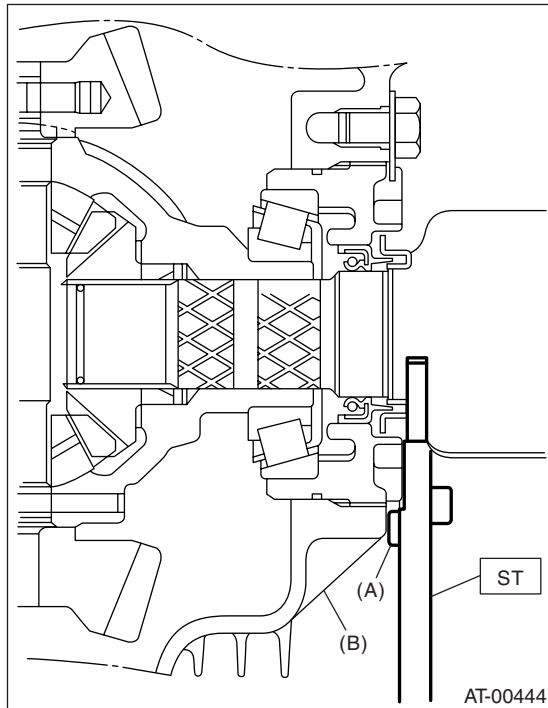


(A) Letter "AT"

- (2) Insert the ST between transmission and front drive shaft.

NOTE:
Put the projection of ST on torque converter clutch case.

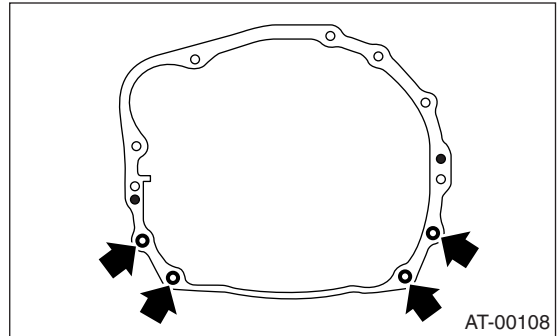
ST 28399SA000 DRIVE SHAFT REMOVER



- (A) ST projection
(B) Torque converter clutch case

- (3) While holding the joint portion (AARi) of front drive shaft with your hand, push the housing outside to remove from transmission.

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

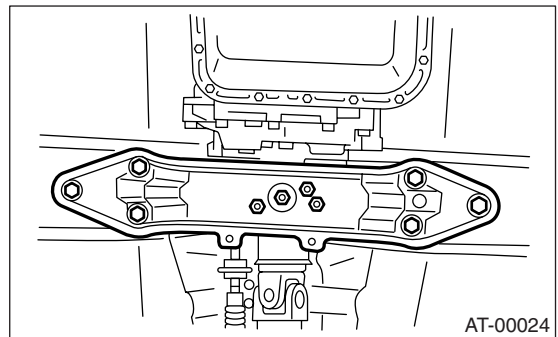


- 29) Place the transmission jack under transmission.

NOTE:

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

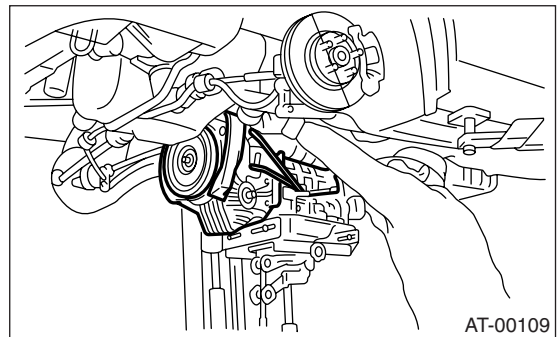
- 30) Remove the transmission rear crossmember from vehicle.



- 31) Remove the transmission.

CAUTION:

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



- 32) Separate the transmission assembly and rear cushion rubber.

AUTOMATIC TRANSMISSION ASSEMBLY

AUTOMATIC TRANSMISSION

B: INSTALLATION

1) Replace the differential side oil seal with a new one. <Ref. to 4AT-48, REPLACEMENT, Differential Side Retainer Oil Seal.>

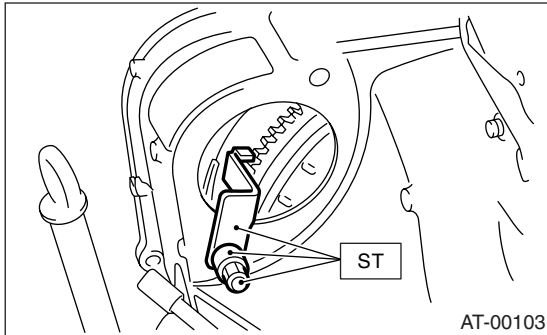
2) Install the rear cushion rubber to transmission assembly.

Tightening torque:

39 N·m (4.0 kgf·m, 29 ft·lb)

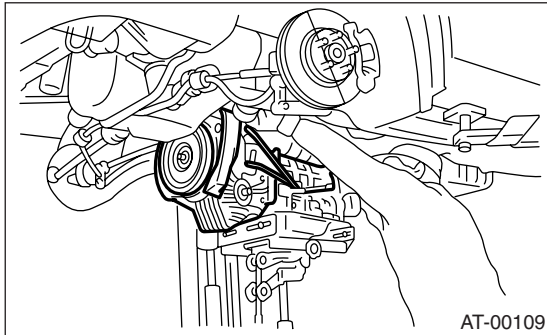
3) Install the ST to torque converter clutch case.

ST 498277200 STOPPER SET



4) Install the transmission onto engine.

(1) Gradually raise the transmission with transmission jack.



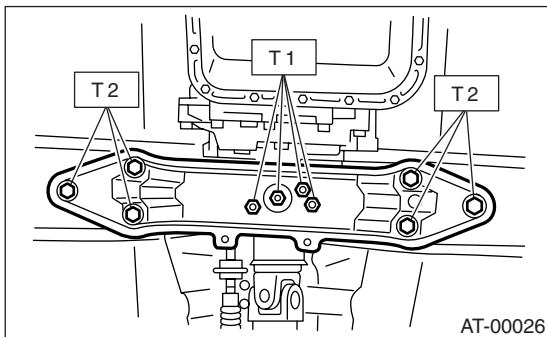
(2) Engage them at splines.

5) Install the transmission rear crossmember.

Tightening torque:

T1: 35 N·m (3.6 kgf·m, 26 ft·lb)

T2: 70 N·m (7.1 kgf·m, 51 ft·lb)

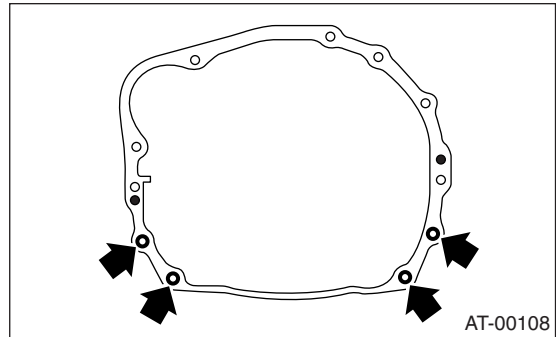


6) Take off the transmission jack.

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

Tightening torque:

50 N·m (5.1 kgf·m, 36.9 ft·lb)



8) Lower the vehicle.

9) Connect the engine and transmission.

(1) Remove the 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

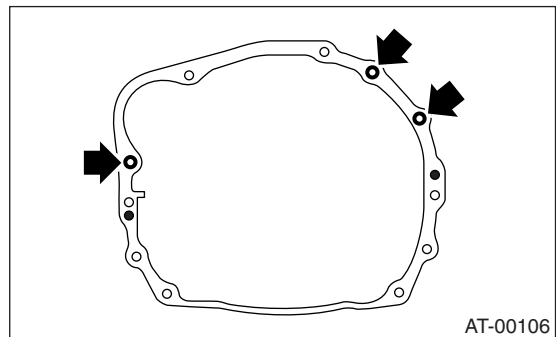
(2) Install the starter.

<Ref. to SC(H4SO)-6, INSTALLATION, Starter.>

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

Tightening torque:

50 N·m (5.1 kgf·m, 36.9 ft·lb)



AUTOMATIC TRANSMISSION ASSEMBLY

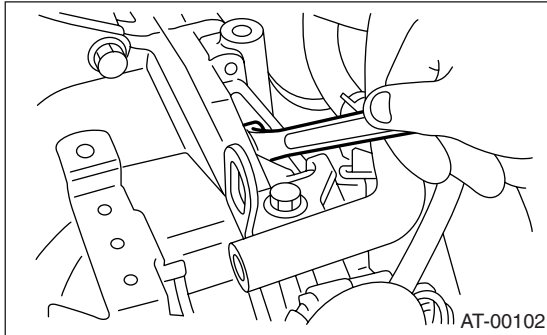
AUTOMATIC TRANSMISSION

10) Install the torque converter clutch ASSY to drive plate.

- (1) Tighten the bolts which hold the torque converter clutch ASSY to drive plate.
- (2) Tighten the other bolts while rotating the crankshaft sprocket by using ST.

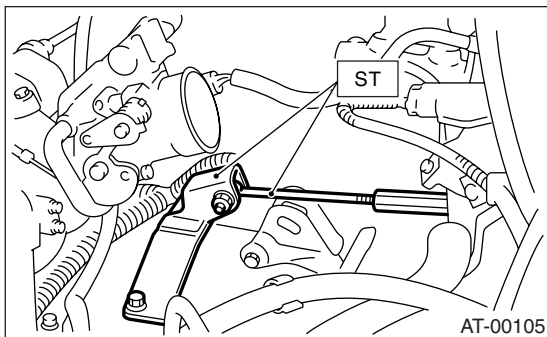
Tightening torque:

25 N·m (2.5 kgf·m, 18.1 ft·lb)



- (3) Clog the plug onto service hole.

11) Remove the ST.

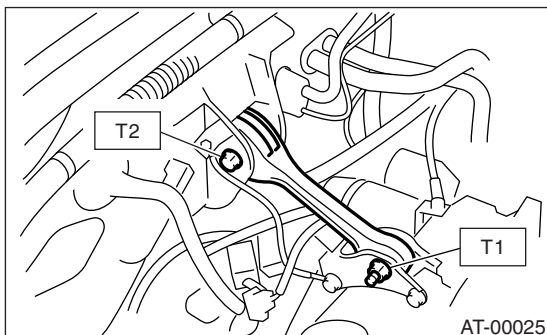


12) Install the pitching stopper.

Tightening torque:

T1: 50 N·m (5.1 kgf·m, 37 ft·lb)

T2: 58 N·m (5.9 kgf·m, 43 ft·lb)



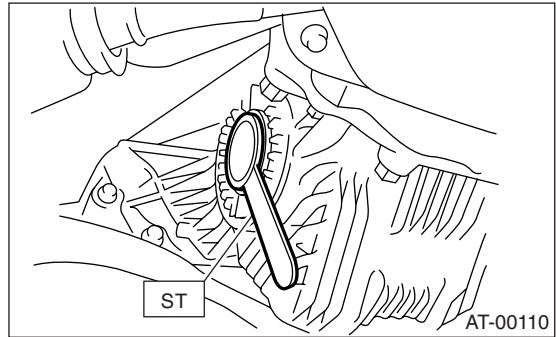
13) Lift-up the vehicle.

14) Replace the front drive shaft circlip with a new one.

15) Apply a coat grease to the lip of oil seal.

16) Install the ST to side retainer.

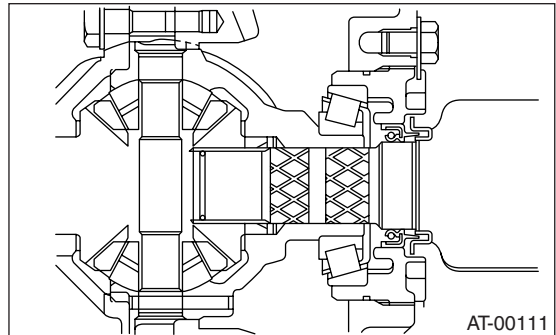
ST 28399SA010 OIL SEAL PROTECTOR



17) Insert the front drive shaft by aligning spline part of front drive shaft and serration part of differential bevel gear, and then remove the ST.

ST 28399SA010 OIL SEAL PROTECTOR

18) Insert the front drive shaft to transmission securely by pressing front housing.

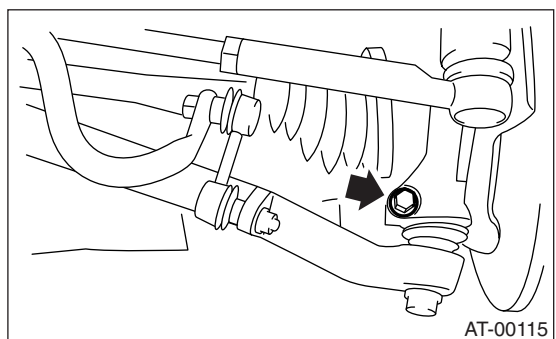


19) Connect the ball joint into front housing.

20) Tighten the installing bolts.

Tightening torque:

49 N·m (5.0 kgf·m, 36 ft·lb)



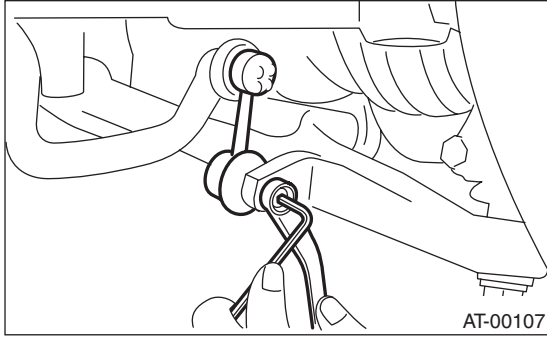
AUTOMATIC TRANSMISSION ASSEMBLY

AUTOMATIC TRANSMISSION

21) Install the stabilizer link from transverse link.

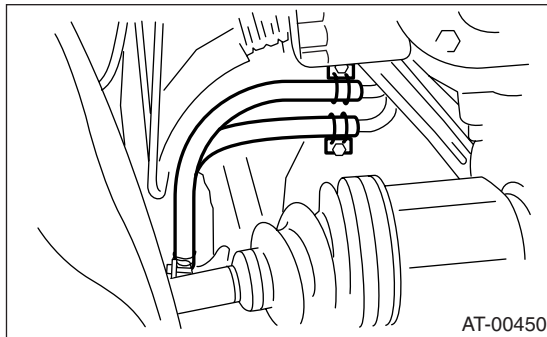
Tightening torque:

45 N·m (4.6 kgf·m, 33.2 ft·lb)



22) Install the shift select cable onto select lever.
<Ref. to CS-26, INSTALLATION, Select Cable.>

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



24) Install the propeller shaft.

<Ref. to DS-16, INSTALLATION, Propeller Shaft.>

25) Install the heat shield cover. (If equipped)

26) Install the rear exhaust pipe and muffler assembly.

Non-turbo model

<Ref. to EX(H4SO)-8, INSTALLATION, Rear Exhaust Pipe.> <Ref. to EX(H4SO)-9, INSTALLATION, Muffler.>

Turbo model

<Ref. to EX(H4DOTC)-13, INSTALLATION, Rear Exhaust Pipe.> <Ref. to EX(H4DOTC)-15, INSTALLATION, Muffler.>

27) Install the front and center exhaust pipe. (Non-turbo model)

<Ref. to EX(H4SO)-5, INSTALLATION, Front Exhaust Pipe.>

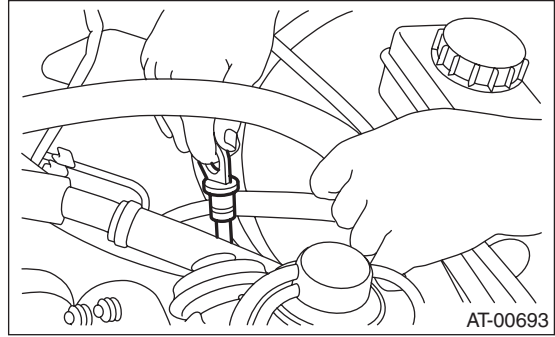
28) Install the center exhaust pipe. (Turbo model)

<Ref. to EX(H4DOTC)-9, INSTALLATION, Center Exhaust Pipe.>

29) Install the under cover.

30) Lower the vehicle.

31) Install the ATF level gauge.



32) Connect the following connectors.

(1) Transmission harness connectors

(2) Transmission ground terminal

33) Install the air cleaner case stay.

Tightening torque:

16 N·m (1.6 kgf·m, 11.6 ft·lb)

34) Install the air cleaner case or air intake chamber. (Non-turbo model)

<Ref. to IN(H4SO)-6, INSTALLATION, Air Cleaner Case.>

<Ref. to IN(H4SO)-8, INSTALLATION, Resonator Chamber.>

35) Install the intercooler. (Turbo model)

<Ref. to IN(H4DOTC)-11, INSTALLATION, Intercooler.>

36) Connect the battery ground cable.

37) Pour ATF into the ATF charge pipe. <Ref. to 4AT-29, Automatic Transmission Fluid.>

38) Check the ATF level. <Ref. to 4AT-29, Automatic Transmission Fluid.>

39) Take off the vehicle from lift arms.

40) Check select lever operation.

<Ref. to 4AT-49, INSPECTION, Inhibitor Switch.>

41) Check the ATF level. <Ref. to 4AT-29, Automatic Transmission Fluid.>

42) Check the road test.

<Ref. to 4AT-31, Road Test.>