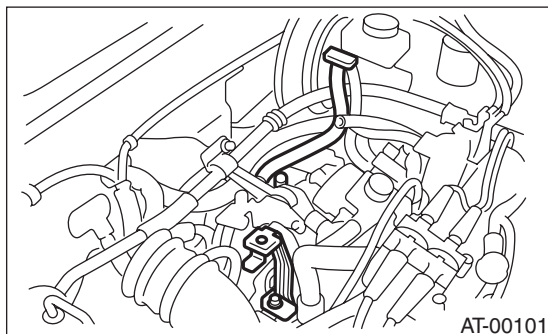


9. Automatic Transmission Assembly

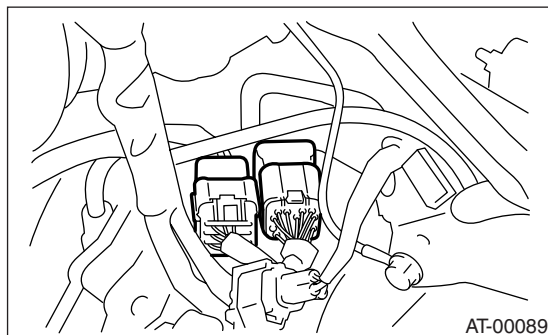
A: REMOVAL

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



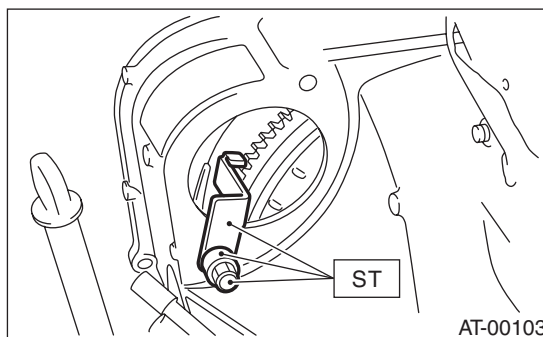
- 7) Remove the intercooler. (Turbo model) <Ref. to IN(H4DOTC)-11, REMOVAL, Intercooler.>
- 8) Remove the front, center, rear exhaust pipes and muffler. (Non-turbo model)
<Ref. to EX(H4SO)-5, REMOVAL, Front Exhaust Pipe.>, <Ref. to EX(H4SO)-9, REMOVAL, Rear Exhaust Pipe.>, <Ref. to EX(H4SO)-10, REMOVAL, Muffler.>
- 9) Remove the center and rear exhaust pipes and the 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)-14, REMOVAL, Muffler.>

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

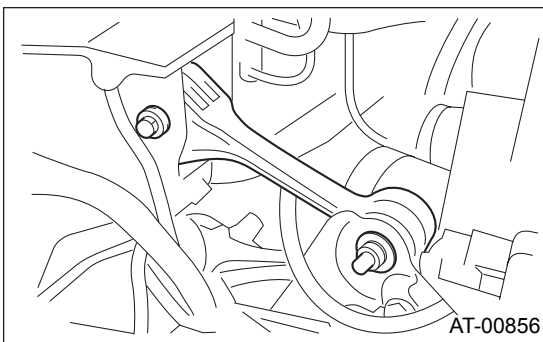


- (2) Transmission ground terminal
- 11) Remove the starter. <Ref. to SC(H4SO)-7, REMOVAL, Starter.>

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



- 13) Remove the pitching stopper.



- 14) Separate the torque converter clutch from drive plate.

- (1) Remove the service hole plug.
- (2) Remove the bolts which hold torque converter clutch to drive plate.
- (3) Rotate the engine using ST and remove other bolts.

CAUTION:

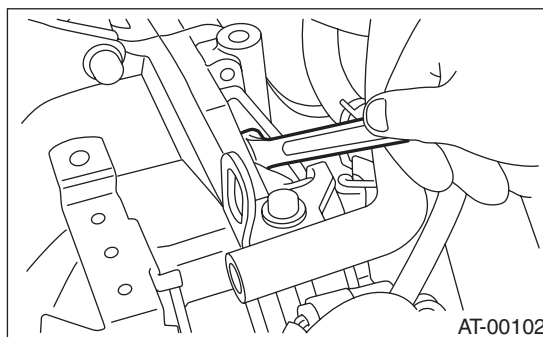
Be careful not to drop the bolts into torque converter clutch housing.

Turbo model

ST 499977300 CRANKSHAFT PULLEY WRENCH

Non-turbo model

ST 499977100 CRANKSHAFT PULLEY WRENCH



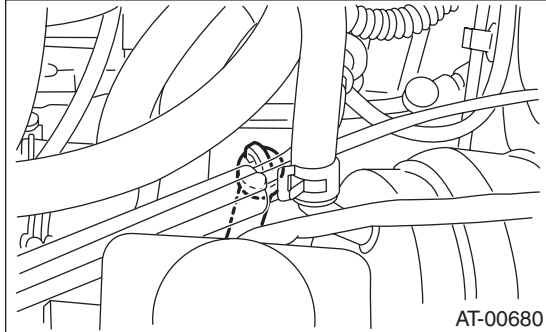
- 15) Remove the ATF level gauge.

AUTOMATIC TRANSMISSION ASSEMBLY

AUTOMATIC TRANSMISSION

NOTE:

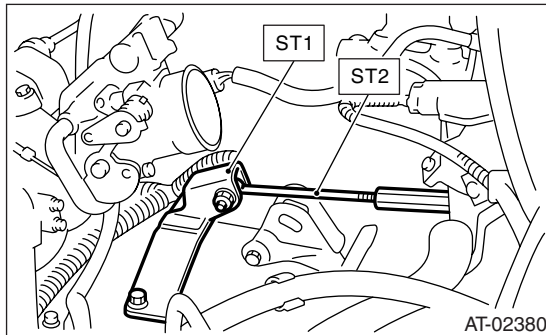
Plug the opening to prevent entry of foreign particles into transmission fluid.



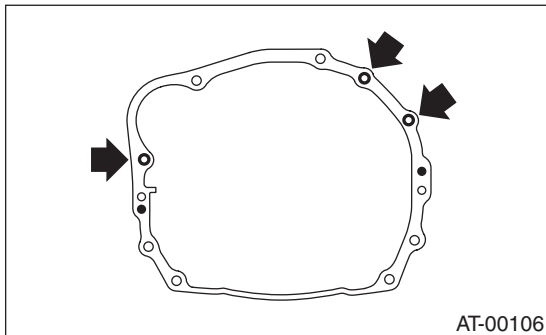
16) Set the ST.

ST1 41099AA010 ENGINE SUPPORT BRACKET

ST2 41099AA020 ENGINE SUPPORT



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

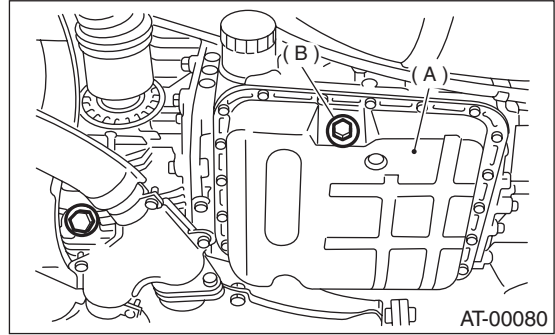


18) Lift up the vehicle.

19) Remove the under cover.

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

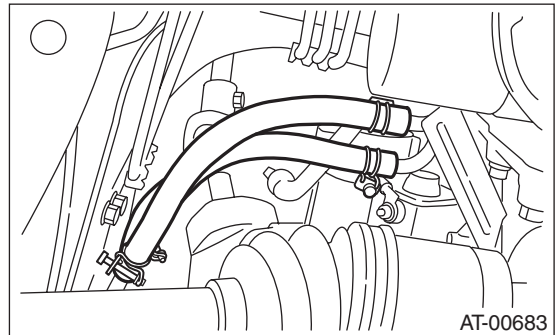
21) Drain the ATF to remove the ATF drain plug.



(A) Oil pan

(B) Drain plug

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



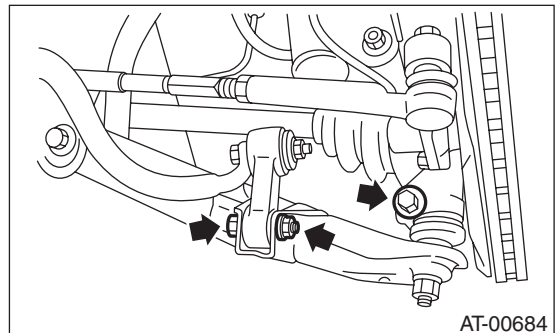
23) Remove the propeller shaft.

<Ref. to DS-14, REMOVAL, Propeller Shaft.>

24) Remove the shift select cable. <Ref. to CS-29, REMOVAL, Select Cable.>

25) Disconnect the stabilizer link from transverse link.

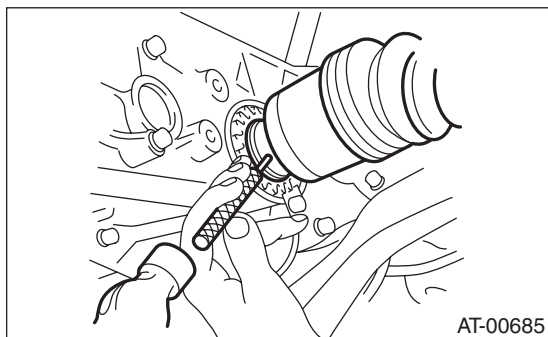
26) Remove the bolt securing ball joint of transverse link to housing.



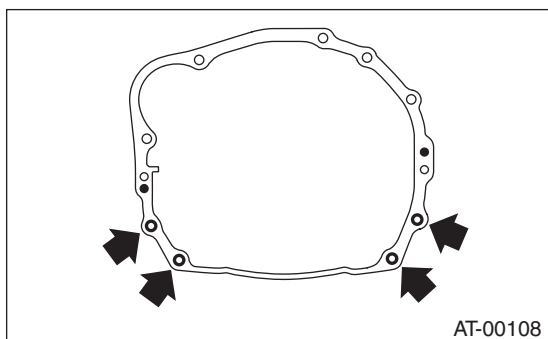
AUTOMATIC TRANSMISSION ASSEMBLY

AUTOMATIC TRANSMISSION

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



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

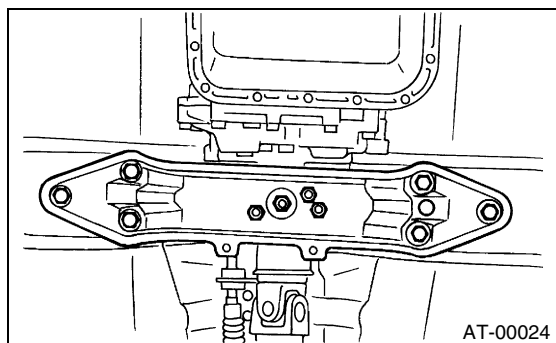


29) Place the transmission jack under transmission.

CAUTION:

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

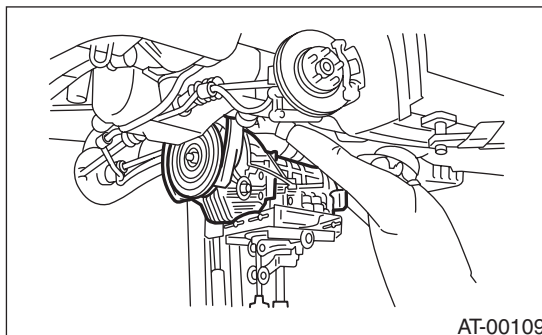
30) Remove the transmission rear crossmember from vehicle.



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.

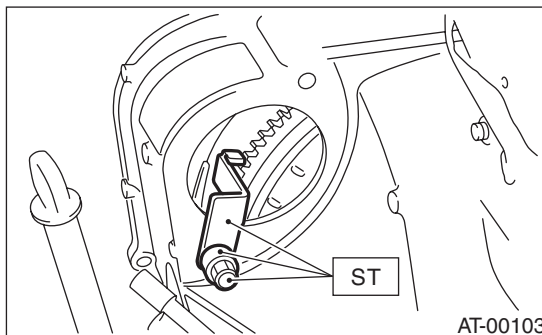
B: INSTALLATION

1) Install the rear cushion rubber to transmission assembly.

Tightening torque:

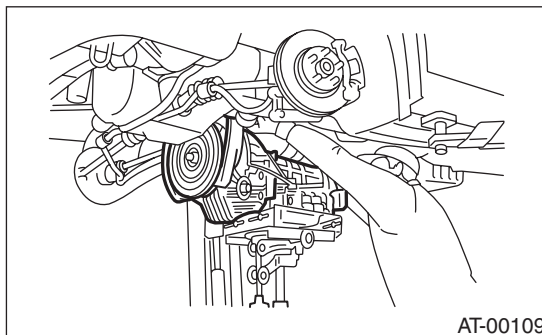
39 N·m (4.0 kgf-m, 29 ft-lb)

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



3) Install the transmission onto engine.

(1) Gradually raise the transmission using a transmission jack.



(2) Engage them at splines.

4) Install the transmission rear crossmember.

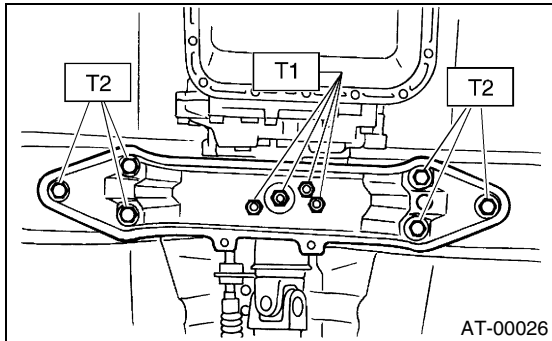
AUTOMATIC TRANSMISSION ASSEMBLY

AUTOMATIC TRANSMISSION

Tightening torque:

T1: 35 N·m (3.6 kgf-m, 26 ft-lb)

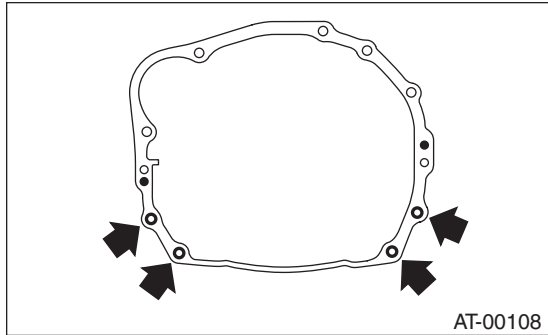
T2: 70 N·m (7.1 kgf-m, 51.4 ft-lb)



- 5) Take off the transmission jack.
- 6) Tighten the nuts and bolts which hold lower side of transmission to engine.

Tightening torque:

50 N·m (5.1 kgf-m, 36.9 ft-lb)



- 7) Lower the vehicle.
- 8) Connect the engine and transmission.
 - (1) Remove the ST from torque converter clutch case.

NOTE:

Be careful not to drop the ST into torque converter clutch case when removing ST.

ST 498277200 STOPPER SET

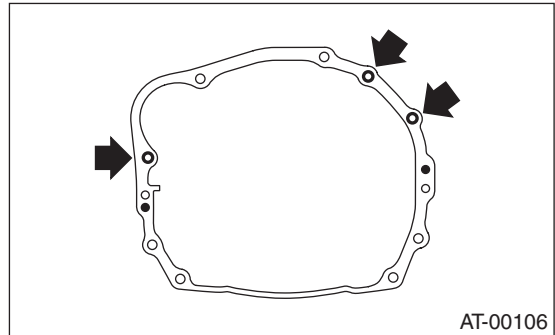
- (2) Install the starter.

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

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

Tightening torque:

50 N·m (5.1 kgf-m, 36.9 ft-lb)



- 9) Install the torque converter clutch onto drive plate.

- (1) Tighten the bolts which hold torque converter clutch to drive plate.
- (2) Rotate the engine using ST and tighten other bolts.

CAUTION:

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

Turbo model

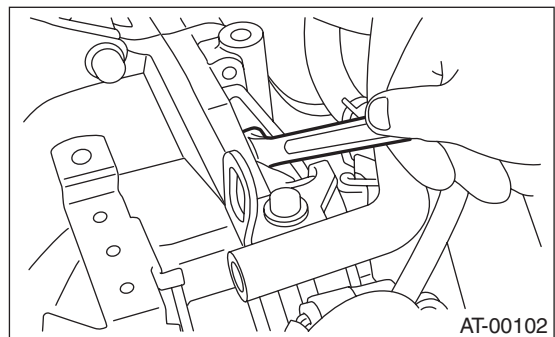
ST 499977400 CRANKSHAFT PULLEY WRENCH

Non-turbo model

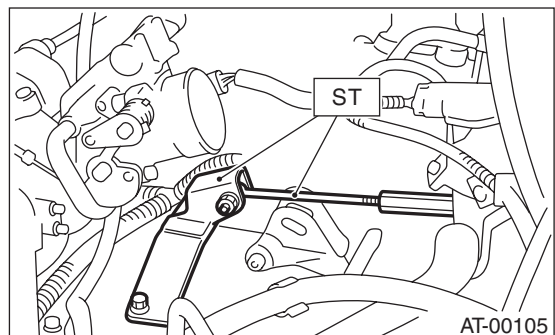
ST 499977100 CRANKSHAFT PULLEY WRENCH

Tightening torque:

25 N·m (2.5 kgf-m, 18.1 ft-lb)



- (3) Clog the service hole with a plug.
- 10) Remove the ST.



AUTOMATIC TRANSMISSION ASSEMBLY

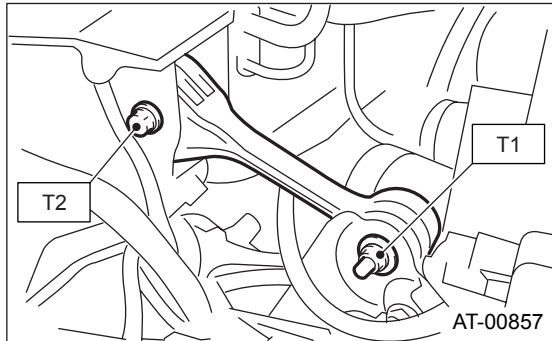
AUTOMATIC TRANSMISSION

11) Install the pitching stopper.

Tightening torque:

T1: 50 N·m (5.1 kgf-m, 37 ft-lb)

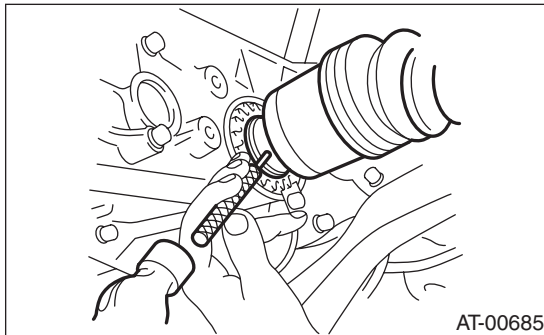
T2: 58 N·m (5.9 kgf-m, 43 ft-lb)



12) Lift up the vehicle.

Install the front drive shafts into transmission.

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



13) Install the ball joint into housing.

14) Connect the stabilizer to transverse link and tighten the bolts.

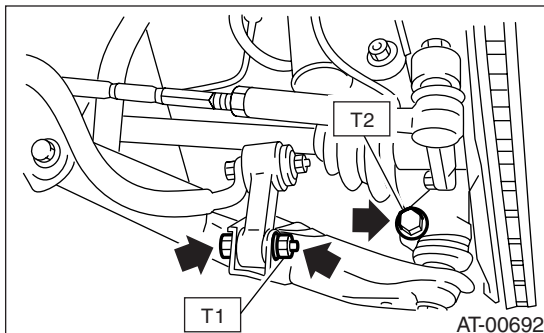
NOTE:

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

Tightening torque:

T1: 30 N·m (3.1 kgf-m, 22.4 ft-lb)

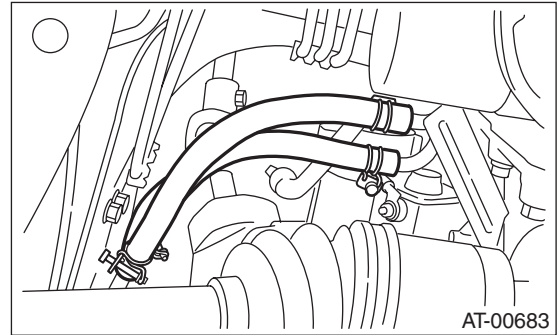
T2: 50 N·m (5.1 kgf-m, 37 ft-lb)



15) Install the shift select cable onto select lever.

<Ref. to CS-30, INSTALLATION, Select Cable.>

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



17) Install the propeller shaft.

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

18) Install the heat shield cover.(if equipped)

19) Install the front, center, rear exhaust pipes and the muffler. (Non-turbo model)

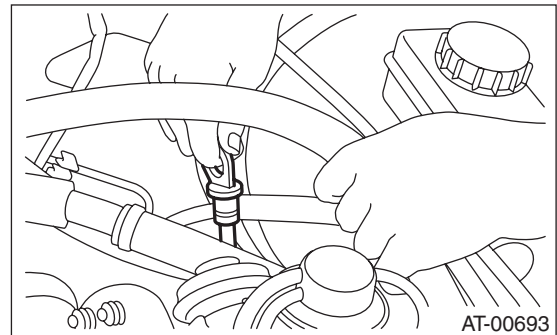
<Ref. to EX(H4SO)-6, INSTALLATION, Front Exhaust Pipe.>, <Ref. to EX(H4SO)-9, INSTALLATION, Rear Exhaust Pipe.>, <Ref. to EX(H4SO)-10, INSTALLATION, Muffler.>

20) Install the center and rear exhaust pipes and the muffler. (Turbo model) <Ref. to EX(H4DOTC)-9, INSTALLATION, Center Exhaust Pipe.>, <Ref. to EX(H4DOTC)-13, INSTALLATION, Rear Exhaust Pipe.>, <Ref. to EX(H4DOTC)-14, INSTALLATION, Muffler.>

21) Install the under cover.

22) Lower the vehicle.

23) Install the ATF level gauge.



24) Connect the following connectors.

- (1) Transmission harness connector
- (2) Transmission ground terminal

AUTOMATIC TRANSMISSION ASSEMBLY

AUTOMATIC TRANSMISSION

25) Install the air cleaner case stay. (Non-turbo model)

Tightening torque:

16 N·m (1.6 kgf-m, 11.6 ft-lb)

26) Install the air cleaner case. (Non-turbo model)
<Ref. to IN(H4SO)-6, INSTALLATION, Air Cleaner Case.>

27) Install the air intake duct. (Non-turbo model)
<Ref. to IN(H4SO)-7, INSTALLATION, Air Intake Duct.>

28) Install the intercooler. (Turbo model) <Ref. to IN(H4DOTC)-12, INSTALLATION, Intercooler.>

29) Connect the battery ground cable to battery.

30) Fill ATF up to the middle of the "COLD" side on level gauge by using the gauge hole.

Recommended fluid:

Dexron III type automatic transmission fluid

Fluid capacity:

9.3 — 9.6 ℓ (9.8 — 10.1 US qt, 7.4 — 7.7 Imp qt)

31) Take off the vehicle from lift arms.

32) Check the select lever operation.

<Ref. to AT-48, INSPECTION, Inhibitor Switch.>

33) Check the ATF level.<Ref. to AT-30, ATF.>

34) Test the vehicle on the road.

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