

# AUTOMATIC TRANSMISSION ASSEMBLY

Automatic Transmission

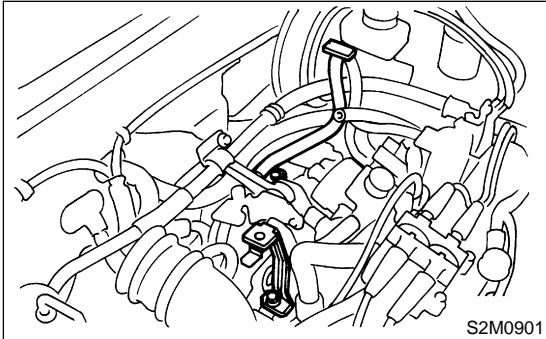
## 9. Automatic Transmission Assembly

S502207

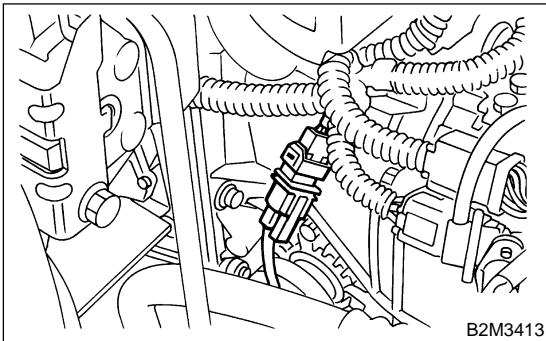
### A: REMOVAL

S502207A18

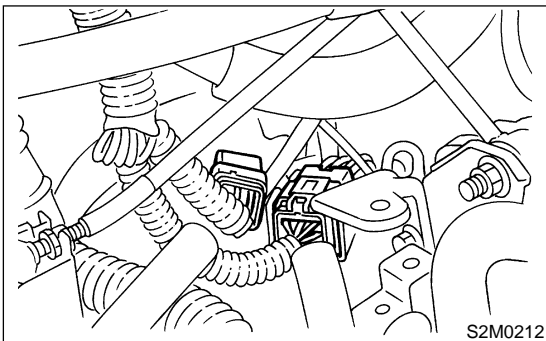
- 1) Open front hood fully, and support with stay.
- 2) Disconnect battery ground terminal.
- 3) Remove air intake duct and cleaner case.
- 4) Remove air cleaner case stay.



- 5) Disconnect the following connectors.
  - (1) Oxygen sensor connector



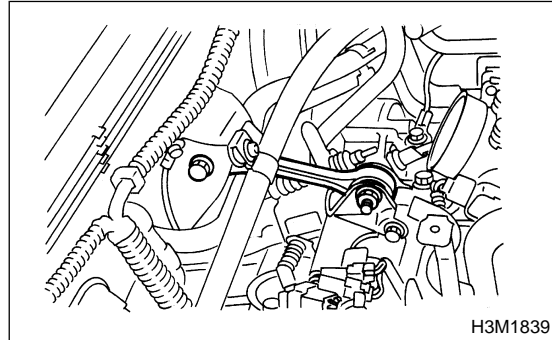
- (2) Transmission harness connector



- (3) Transmission ground terminal

- 6) Remove starter. <Ref. to SC(H4)-7 REMOVAL, Starter.>

- 7) Remove pitching stopper.



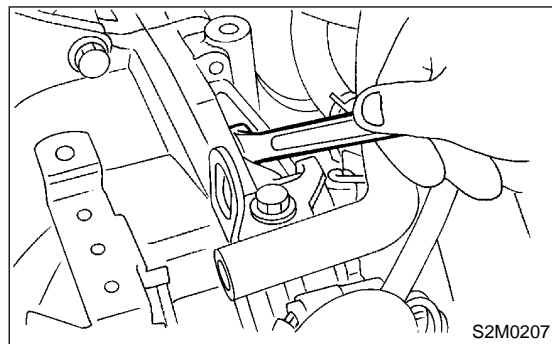
- 8) Separate torque converter clutch from drive plate.

- (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.

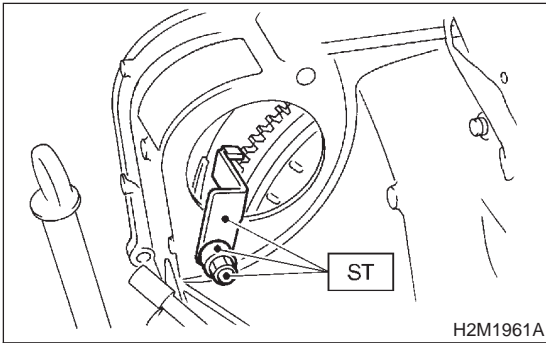
### CAUTION:

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

ST 499977100 CRANK PULLEY WRENCH



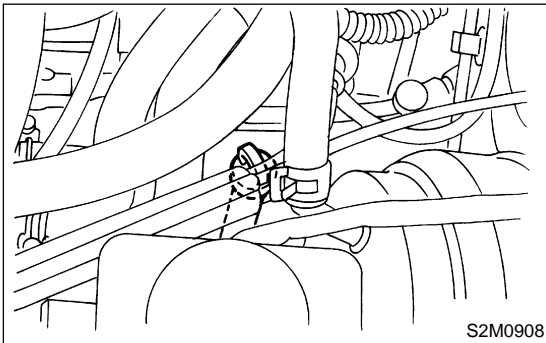
- 9) Install ST to torque converter clutch case.  
ST 498277200 STOPPER SET



- 10) Remove ATF level gauge.

**CAUTION:**

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

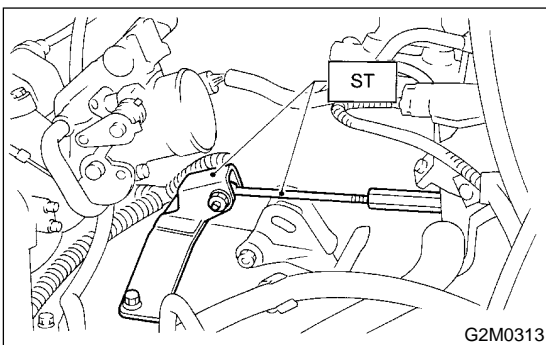


- 11) Set ST.

**NOTE:**

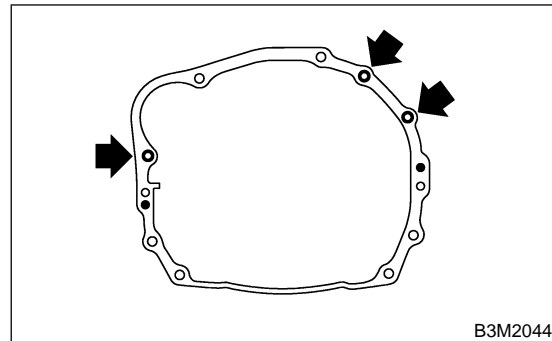
Also is available Part No. 927670000.

- ST 41099AA020 ENGINE SUPPORT ASSY

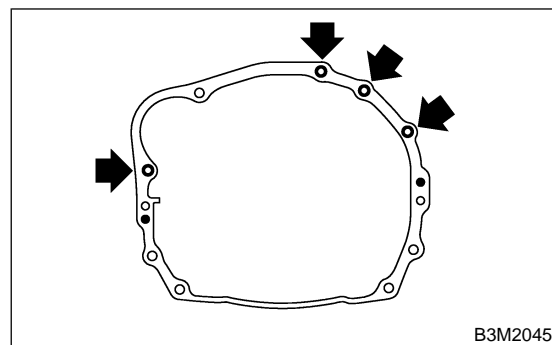


- 12) Remove bolt which holds right upper side of transmission to engine.

**2.5ℓ model**

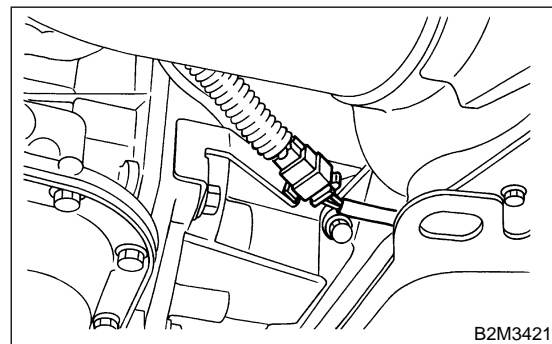


**3.0ℓ model**



- 13) Remove under cover.

- 14) Disconnect connector from rear oxygen sensor.



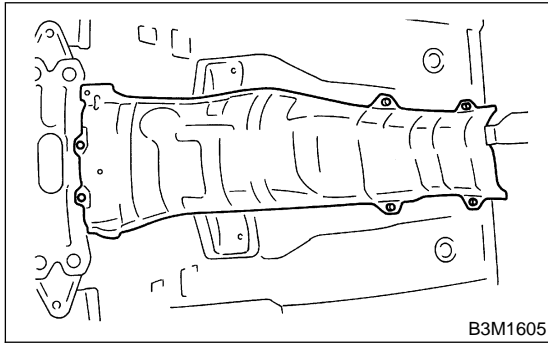
- 15) Remove front and center exhaust pipes.

- 16) Remove rear exhaust pipe and muffler assembly.

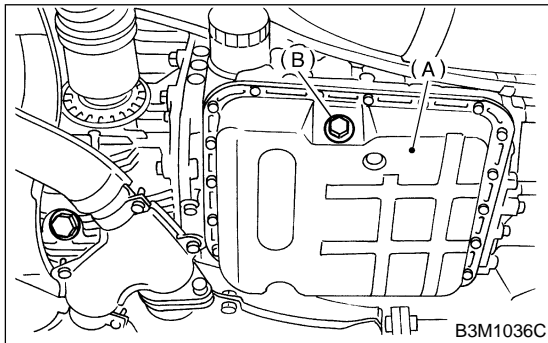
# AUTOMATIC TRANSMISSION ASSEMBLY

## Automatic Transmission

17) Remove heat shield cover.

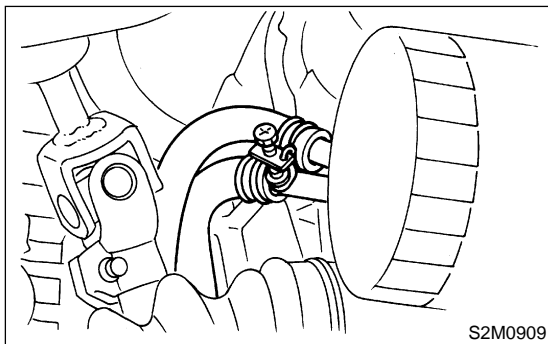


18) Drain ATF to remove ATF drain plug.



- (A) Oil pan
- (B) Drain plug

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

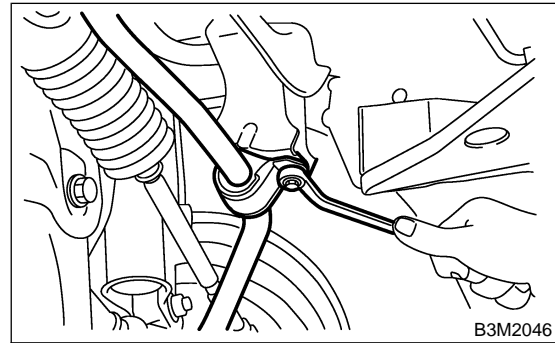


20) Remove propeller shaft.

<Ref. to DS-13 REMOVAL, Propeller Shaft.>

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

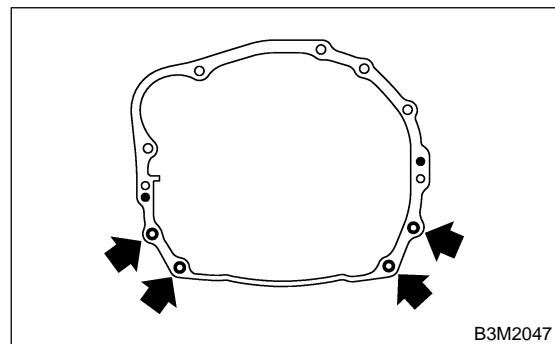
22) Remove bolts which install stabilizer clamps onto crossmember.



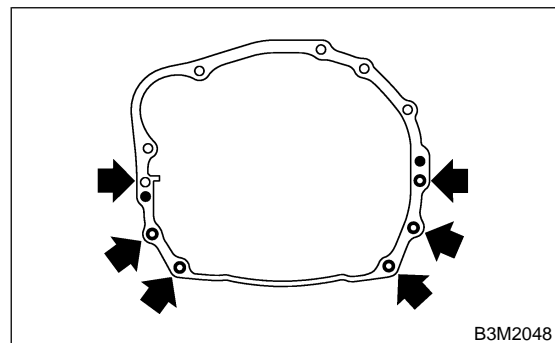
23) Remove front drive shafts from transmission.  
<Ref. to DS-28 REMOVAL, Front Drive Shaft.>

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

**2.5ℓ model**



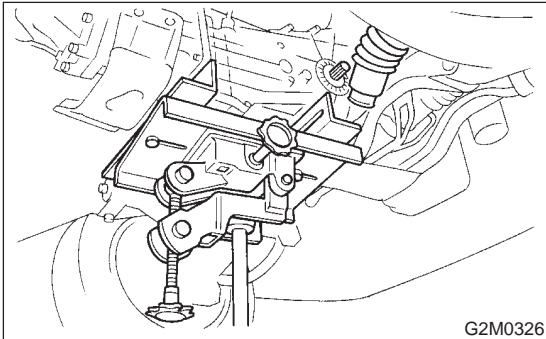
**3.0ℓ model**



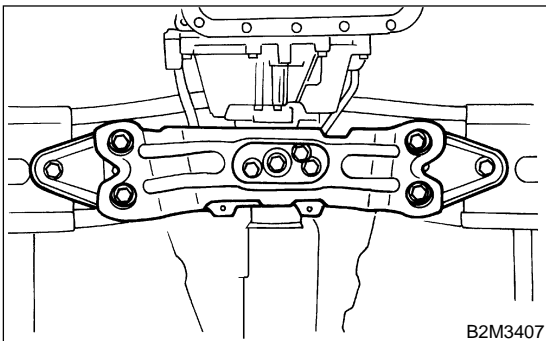
25) Place transmission jack under transmission.

**CAUTION:**

- Always support transmission case with a transmission jack.
- On AT vehicles, make sure that the support plates of transmission jack don't touch the oil pan.



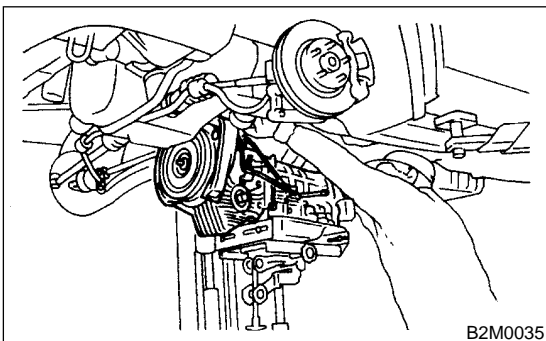
26) Remove transmission rear crossmember from vehicle.



27) Remove transmission.

**CAUTION:**

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



28) Separate transmission assembly and rear cushion rubber.

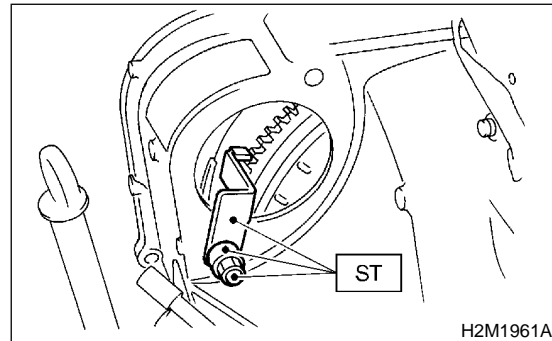
## B: INSTALLATION S502207A11

1) Install rear cushion rubber to transmission assembly.

**Tightening torque:**

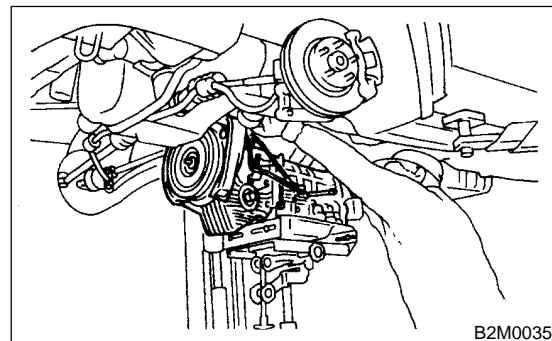
**38 N-m (3.9 kgf-m, 28 ft-lb)**

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



3) Install transmission onto engine.

(1) Gradually raise transmission with transmission jack.



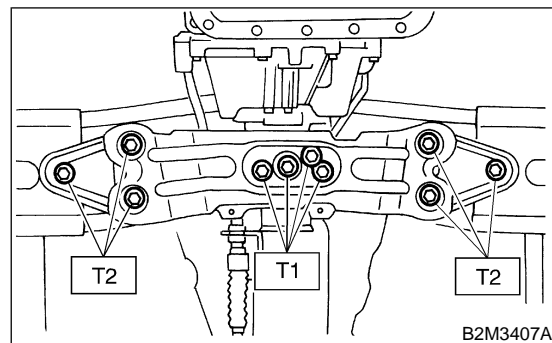
(2) Engage them at splines.

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.

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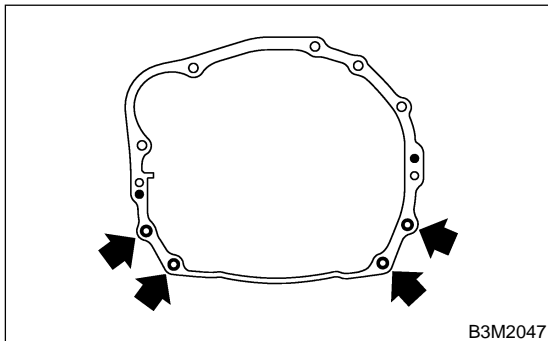
Automatic Transmission

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

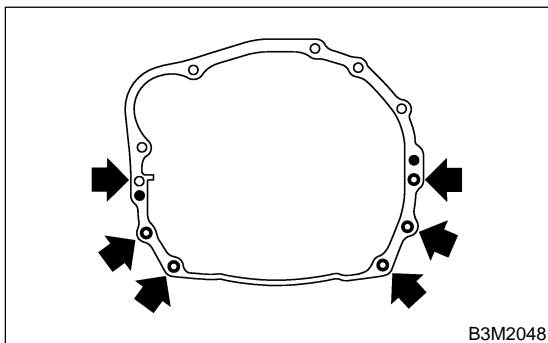
**Tightening torque:**

**50 N·m (5.1 kgf-m, 36.9 ft-lb)**

**2.5l model**



**3.0l model**



7) 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.

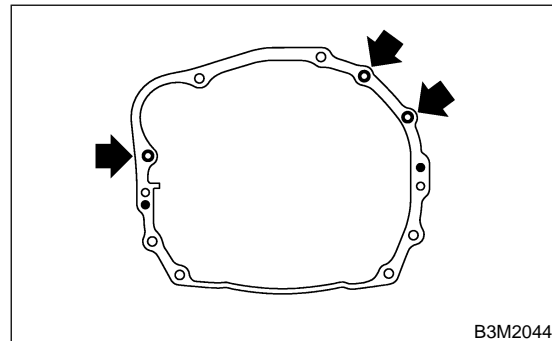
<Ref. to SC(H4)-8 INSTALLATION, Starter.>

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

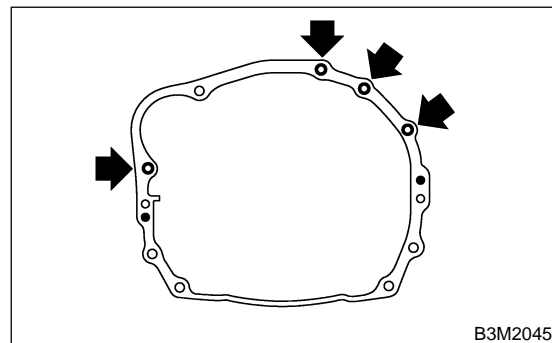
**Tightening torque:**

**50 N·m (5.1 kgf-m, 36.9 ft-lb)**

**2.5l model**



**3.0l model**



8) 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.

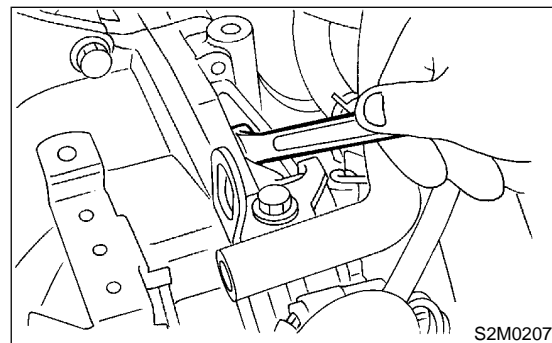
**CAUTION:**

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

ST 499977100 CRANK PULLEY WRENCH

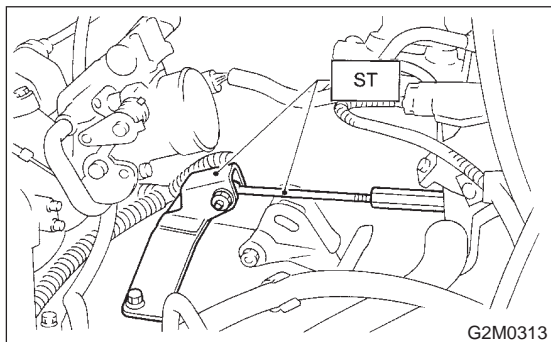
**Tightening torque:**

**25±2 N·m (2.5±0.2 kgf-m, 18.1±1.4 ft-lb)**



(3) Clog plug onto service hole.

9) Remove ST.

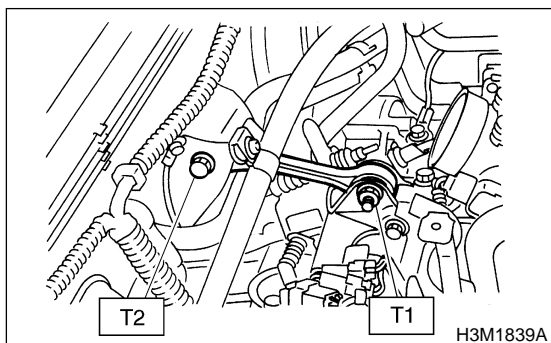


10) Install pitching stopper.

**Tightening torque:**

**T1: 50 N·m (5.1 kgf-m, 37 ft-lb)**

**T2: 58 N·m (5.9 kgf-m, 43 ft-lb)**

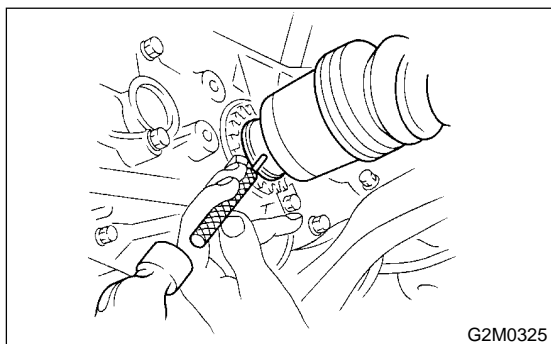


11) Install front drive shafts into transmission.

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

**CAUTION:**

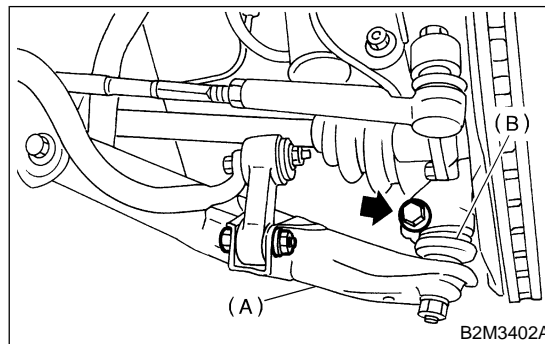
**Always use a new spring pin.**



(4) Install ball joints of lower arm into knuckle arm of housing, and tighten installing bolts.

**Tightening torque:**

**49 N·m (5.0 kgf-m, 36 ft-lb)**



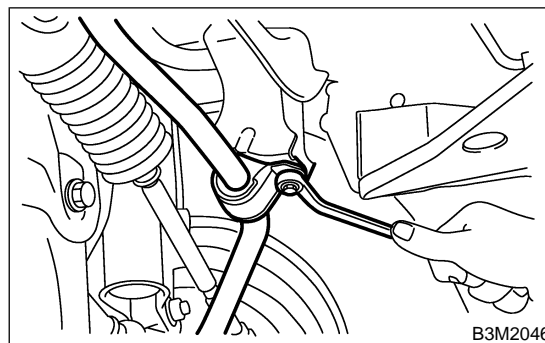
(A) Transverse link

(B) Ball joint

12) Install stabilizer clamps onto front crossmember.

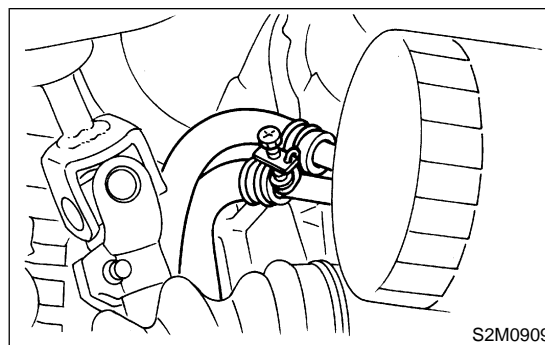
**Tightening torque:**

**25 N·m (2.5 kgf-m, 18.1 ft-lb)**



13) Install shift select cable onto select lever.  
<Ref. to CS-25 INSTALLATION, Select Cable.>

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



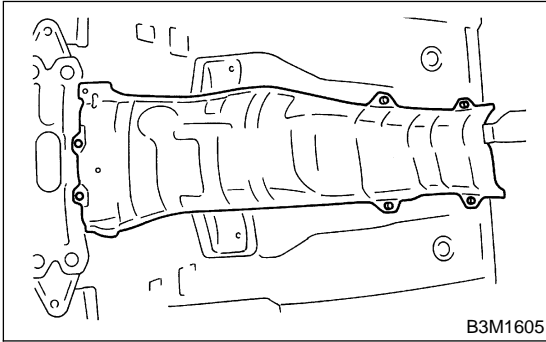
15) Install propeller shaft.

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

# AUTOMATIC TRANSMISSION ASSEMBLY

Automatic Transmission

16) Install heat shield cover.



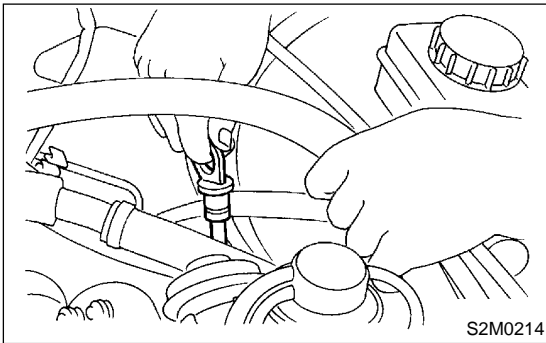
30) Check the vehicle on the road tester.  
<Ref. to AT-11 Road Test.>

17) Install rear exhaust pipe to muffler.

18) Install front exhaust pipe and center exhaust pipe.

19) Install under cover.

20) Install ATF level gauge.



21) Connect the following connectors.

- (1) Transmission harness connectors
- (2) Transmission ground terminal
- (3) Oxygen sensor connector

22) Connect the following cables.

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

23) Install air cleaner case stay.

### **Tightening torque:**

**16 N·m (1.6 kgf·m, 11.6 ft·lb)**

24) Install air cleaner case.

25) Connect battery ground cable.

26) 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, 8.2 — 8.4 Imp qt)**

27) Take off vehicle from lift arms.

28) Check select lever operation.

<Ref. to AT-28 INSPECTION, Inhibitor Switch.>

29) Run the vehicle until the ATF temperature rises from 60 to 80°C (140 to 176°F) and check the ATF level of the "HOT" side on level gauge.