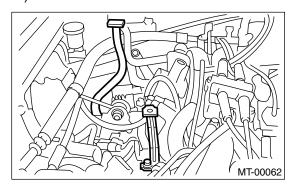
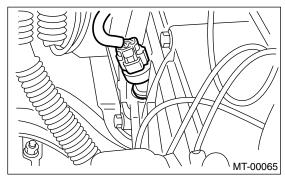
3. Manual Transmission Assembly

A: REMOVAL

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

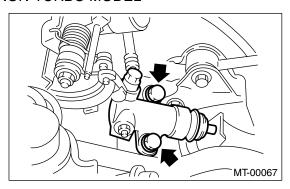


- 5) Remove the intercooler. (Turbo model) <Ref. to IN(H4DOTC)-10, REMOVAL, Intercooler.>
- 6) Disconnect the following connectors:
 - (1) Neutral position switch connector
 - (2) Back-up light switch connector
 - (3) Vehicle speed sensor

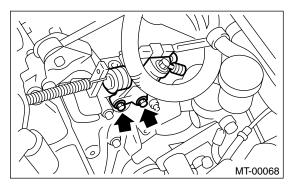


7) Remove the starter. <Ref. to SC(H4SO)-7, RE-MOVAL, Starter.>

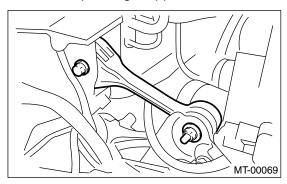
- 8) Remove the operating cylinder from transmission.
- NON-TURBO MODEL



• TURBO MODEL



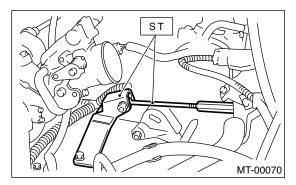
9) Remove the pitching stopper.



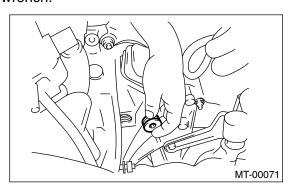
MANUAL TRANSMISSION ASSEMBLY

MANUAL TRANSMISSION AND DIFFERENTIAL

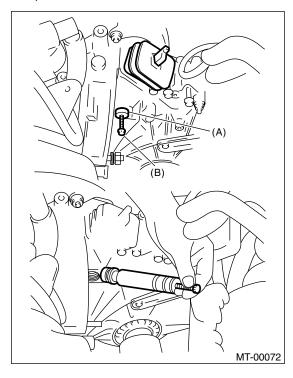
- 10) Set the ST.
- ST 41099AA000 ENGINE SUPPORT ASSY



- 11) Separate the clutch release fork from release bearing. (Turbo model)
 - (1) Remove the clutch operating cylinder from transmission.
 - (2) Remove the plug using 10 mm hexagon wrench.



(3) Screw the 6 mm dia. bolt into release fork shaft, and then remove it.

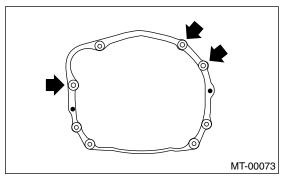


- (A) Shaft
- (B) Bolt
- (4) Raise the release fork and unfasten the release bearing tabs to free release fork.

NOTE:

Step (4) is required to prevent interference with engine when removing the engine from transmission.

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



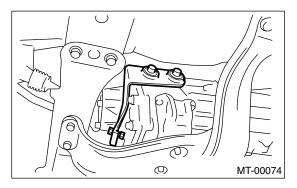
- 13) Remove the front and center exhaust pipes. (Non-turbo model) <Ref. to EX(H4SO)-4, REMOV-AL, Front Exhaust Pipe.>
- 14) Remove the center exhaust pipe. (Turbo model). <Ref. to EX(H4DOTC)-8, REMOVAL, Center Exhaust Pipe.>

15) Remove the rear exhaust pipe and muffler.

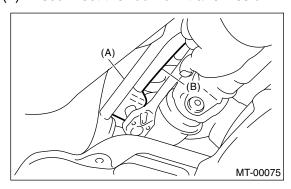
CAUTION:

When removing the exhaust pipes, be careful each exhaust pipe does not drop out.

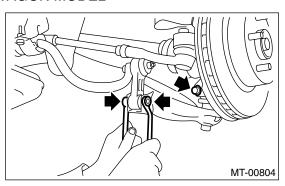
- 16) Remove the heat shield cover. (If equipped)
- 17) Remove the hanger bracket from right side of transmission.



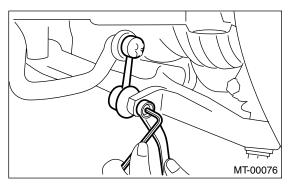
- 18) Remove the propeller shaft. <Ref. to DS-14, REMOVAL, Propeller Shaft.>
- 19) Remove the gear shift rod and stay from transmission.
 - (1) Disconnect the stay from transmission.
 - (2) Disconnect the rod from transmission.



- (A) Stay
- (B) Rod
- 20) Disconnect the stabilizer link from transverse link.
- 21) Remove the bolt securing ball joint of transverse link to housing.
- WAGON MODEL



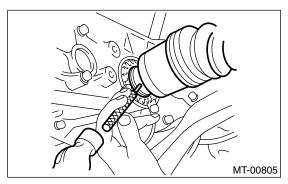
SEDAN MODEL



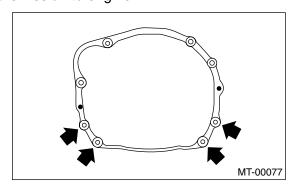
22) Remove the spring pins and separate the front drive shafts from each side of transmission.

NOTE:

Discard the removing spring pin. Replace with a new one.



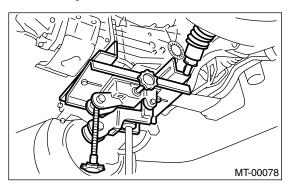
23) Remove the nuts which hold the lower side of transmission to engine.



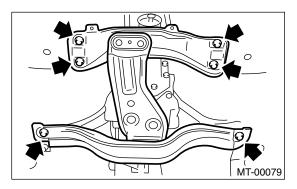
24) Place the transmission jack under transmission.

CAUTION:

Always support the transmission case with a transmission jack.



25) Remove the transmission rear crossmember from vehicle.



26) Remove the transmission.

NOTE:

Move the transmission jack toward rear until main shaft is withdrawn from clutch cover.

- 27) Separate the transmission assembly and rear cushion rubber.
- 28) Remove the clutch release bearing from engine side. (Turbo model) <Ref. to CL-15, REMOVAL, Release Bearing and Lever.>

B: INSTALLATION

1) Install the rear cushion rubber to transmission assembly.

Tightening torque:

35 N·m (3.57 kgf-m, 25.8 ft-lb)

- 2) Install the clutch release lever and bearing onto transmission. (Turbo model) <Ref. to CL-16, IN-STALLATION, Release Bearing and Lever.>
- 3) Install the transmission onto engine.
 - (1) Gradually raise the transmission with transmission jack.
 - (2) Engage them at splines.

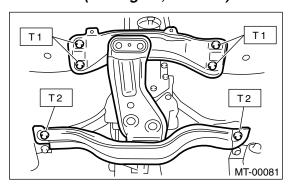
NOTE

Be careful not to strike the main shaft against clutch cover.

4) Install the transmission rear crossmember.

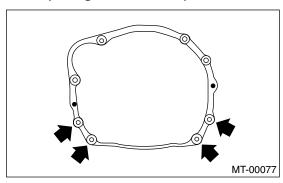
Tightening torque:

T1: 70 N·m (7.1 kgf-m, 51 ft-lb) T2: 140 N·m (14.3 kgf-m, 103 ft-lb)



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

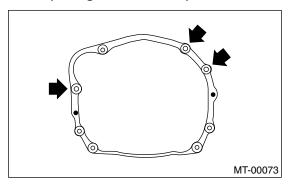
Tightening torque: 50 N⋅m (5.1 kgf-m, 36.9 ft-lb)



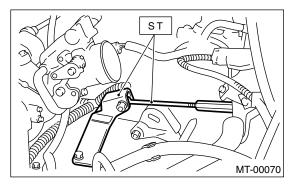
- 7) Connect the engine and transmission.
 - (1) Install the starter.
 - <Ref. to SC(H4SO)-7, INSTALLATION, Starter.>
 - (2) Tighten the bolt which holds right upper side of transmission to engine.

Tightening torque:

50 N·m (5.1 kgf-m, 36.9 ft-lb)



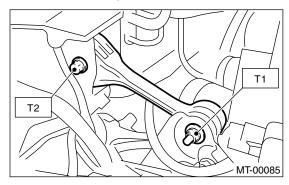
8) Remove the ST.



9) Install the pitching stopper.

Tightening torque:

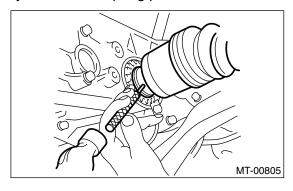
T1: 50 N·m (5.1 kgf-m, 37 ft-lb) T2: 58 N·m (5.9 kgf-m, 43 ft-lb)



- 10) Lift-up the vehicle.
- 11) Install the front drive shaft into transmission.
- 12) Drive the spring pin into chamfered hole of drive shaft.

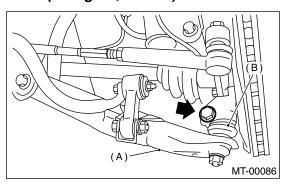
NOTE:

Always use a new spring pin.



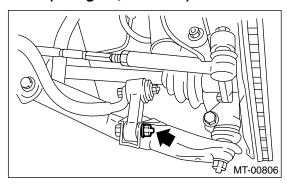
13) Install the ball joints of lower arm into knuckle arm of housing, and tighten the installing bolts.

Tightening torque: 49 N⋅m (5.0 kgf-m, 36 ft-lb)



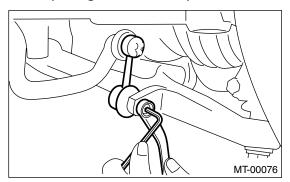
- (A) Transverse link
- (B) Ball joint
- 14) Install the stabilizer link from transverse link.
- WAGON MODEL

Tightening torque: 30 N⋅m (3.1 kgf-m, 22.1 ft-lb)



• SEDAN MODEL

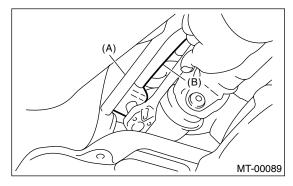
Tightening torque: 45 N⋅m (4.6 kgf-m, 33.2 ft-lb)



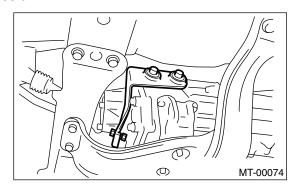
MANUAL TRANSMISSION ASSEMBLY

MANUAL TRANSMISSION AND DIFFERENTIAL

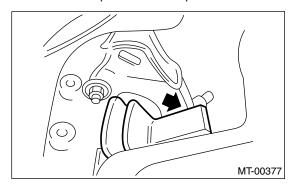
- 15) Install the gear shift rod and stay.
 - (1) Install the gear shift rod onto transmission.



- (A) Stay
- (B) Rod
- (2) Install the stay onto transmission.
- 16) Install the propeller shaft. <Ref. to DS-15, IN-STALLATION, Propeller Shaft.>
- 17) Install the heat shield cover. (If equipped)
- 18) Install the hanger bracket on right side of transmission.



- 19) Install the rear exhaust pipe and muffler.
- 20) Install the front exhaust pipe and center exhaust pipe. (Non-turbo model)
- <Ref. to EX(H4SO)-5, INSTALLATION, Front Exhaust Pipe.>
- 21) Install the center exhaust pipe. (Turbo model) <Ref. to EX(H4DOTC)-9, INSTALLATION, Center Exhaust Pipe.>
- 22) Install the under cover.
- 23) Push the clutch release lever to fit the bearing into clutch cover. (Turbo model)

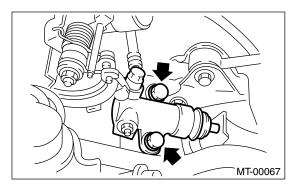


24) Install the operating cylinder.

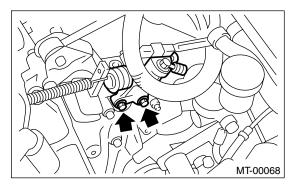
Tightening torque:

37 N·m (3.8 kgf-m, 27.5 ft-lb)

NON-TURBO MODEL



TURBO MODEL



- 25) Connect the following connectors:
 - (1) Transmission ground cable

Tightening torque:

13 N·m (1.3 kgf-m, 9.4 ft-lb)

- (2) Vehicle speed sensor connector
- (3) Neutral position switch connector
- (4) Back-up light switch connector
- 26) Install the air cleaner case stay.

Tightening torque:

16 N·m (1.6 kgf-m, 11.6 ft-lb)

- 27) Install the air cleaner case and duct.
- 28) Connect the battery ground cable to battery.
- 29) Take off the vehicle from lift arms.