

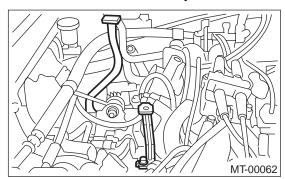
MANUAL TRANSMISSION ASSEMBLY

MANUAL TRANSMISSION AND DIFFERENTIAL

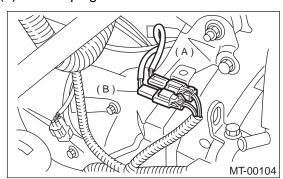
3. Manual Transmission Assembly

A: REMOVAL

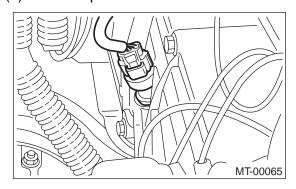
- 1) Set vehicle on a lift.
- 2) Open front hood fully, and support with stay.
- 3) Disconnect battery ground cable.4) Move shift lever to "N", and release the parking brake.
- 5) Remove air intake duct.
- <Ref. to IN(H4SO)-6, REMOVAL, Air Intake Duct.>
- 6) Remove air cleaner case.
- <Ref. to IN(H4SO)-5, REMOVAL, Air Cleaner
- 7) Remove air cleaner case stay.



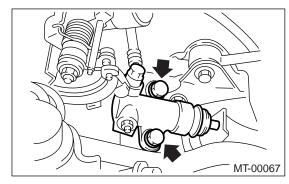
- 8) Disconnect the following connectors.
 - (1) Neutral position switch connector
 - (2) Back-up light switch connector



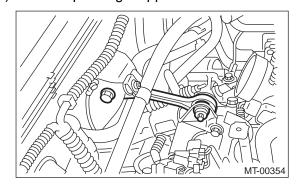
- (A) Neutral switch (Brown)
- (B) Back-up light switch (Gray)
- (3) Vehicle speed sensor



- (4) Transmission ground terminal
- 9) Remove starter.
- <Ref. to SC(H4SO)-7, REMOVAL, Starter.>
- 10) Remove operating cylinder from transmission.

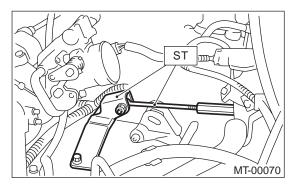


11) Remove pitching stopper.

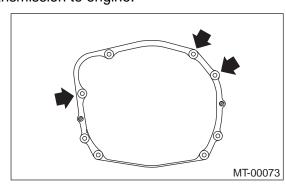


12) Set ST.

41099AA000 ENGINE SUPPORT ASSY

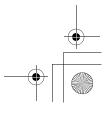


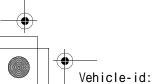
13) Remove bolt which holds right upper side of transmission to engine.



MT-26







SIE-id::A:Removal

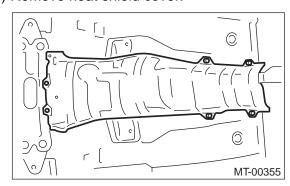




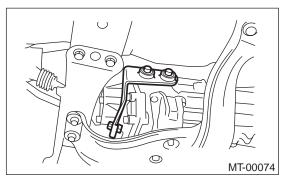


MANUAL TRANSMISSION AND DIFFERENTIAL

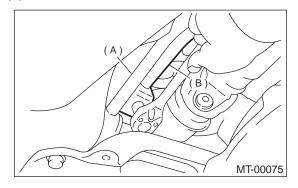
- 14) Remove under cover.
- 15) Remove front and center exhaust pipes. <Ref. to EX(H4SO)-5, REMOVAL, Front Exhaust Pipe.>
- 16) Remove rear exhaust pipe and muffler. <Ref. to EX(H4SO)-9, REMOVAL, Rear Exhaust Pipe.> and <Ref. to EX(H4SO)-10, REMOVAL, Muffler >
- 17) Remove heat shield cover.



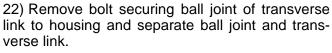
18) Remove hanger bracket from right side of transmission.

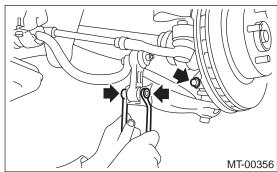


- 19) Remove propeller shaft. <Ref. to DS-14, RE-MOVAL, Propeller Shaft.>
- 20) Remove gear shift rod and stay from transmission.
 - (1) Disconnect stay from transmission.
 - (2) Disconnect rod from transmission.



- (A) Stay
- (B) Rod
- 21) Disconnect stabilizer link from transverse link.

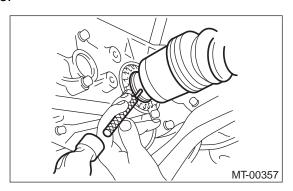




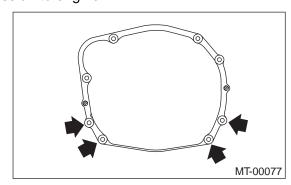
23) Remove spring pins and separate front drive shafts from each side of the transmission.

NOTE

Discard removing spring pin. Replace with a new one.



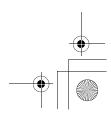
24) Remove nuts which hold lower side of transmission to engine.





SIE-id::A:Removal

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MT-27





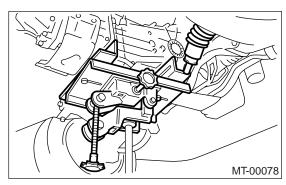
MANUAL TRANSMISSION ASSEMBLY

MANUAL TRANSMISSION AND DIFFERENTIAL

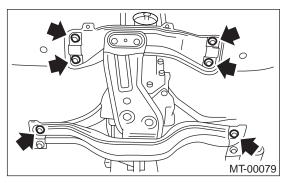
25) Place transmission jack under transmission.

CAUTION:

- Always support transmission case with a transmission jack.
- · Fix transmission with a band etc.



26) Remove transmission rear crossmember from vehicle.



- 27) Move transmission jack toward rear until main shaft is withdrawn from clutch cover.
- 28) Separate transmission assembly and rear cushion rubber.

B: INSTALLATION

1) Install rear cushion rubber to transmission assembly.

Tightening torque:

35 N·m (3.6 kgf-m, 26 ft-lb)

- 2) Install transmission onto engine.
 - (1) Gradually raise transmission with transmission jack.
 - (2) Engage them at splines.

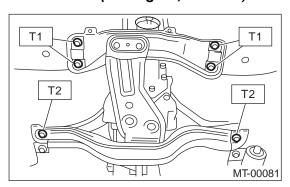
NOTE

Be careful not to strike main shaft against clutch cover.

3) Install transmission rear crossmember.

Tightening torque:

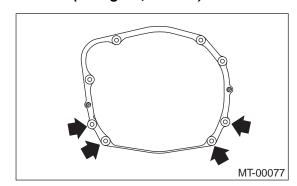
T1: 75 N·m (7.6 kgf-m, 55 ft-lb) T2: 140 N·m (14.3 kgf-m, 103 ft-lb)

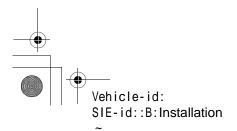


- 4) Take off transmission jack.
- 5) Tighten nuts which hold lower side of transmission to engine.

Tightening torque:

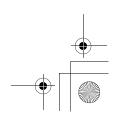
50 N·m (5.1 kgf-m, 37 ft-lb)











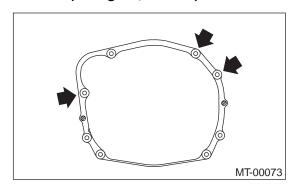




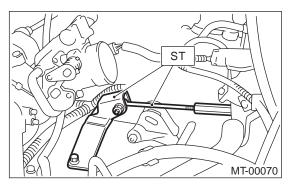
MANUAL TRANSMISSION AND DIFFERENTIAL

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

Tightening torque: 50 N·m (5.1 kgf-m, 37 ft-lb)



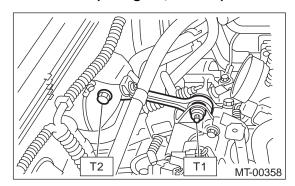
7) Remove ST.



8) Install pitching stopper.

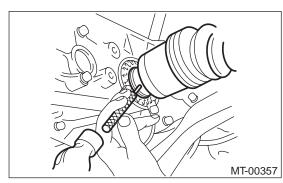
Tightening torque:

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



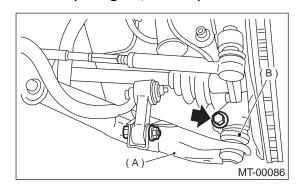
- 9) Lift up the vehicle.
- 10) Install front drive shafts into transmission.

11) New drive spring pin into chamfered hole of drive shaft.



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

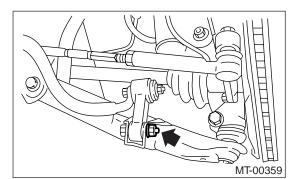
Tightening torque: 50 N·m (5.1 kgf-m, 37 ft-lb)

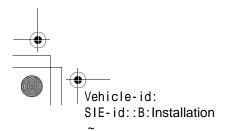


- (A) Transverse link
- (B) Ball joint
- 13) Install stabilizer link from transverse link.

Tightening torque:

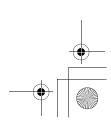
30 N·m (3.1 kgf-m, 22.1 ft-lb)











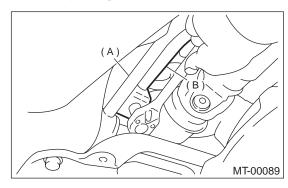


MANUAL TRANSMISSION ASSEMBLY

MANUAL TRANSMISSION AND DIFFERENTIAL

14) Connect rod to the joint.

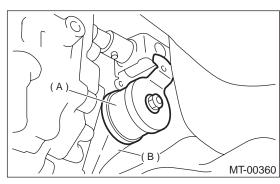
Tightening torque: 18 N·m (1.8 kgf-m, 13.0 ft-lb)



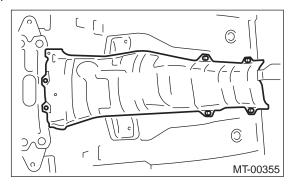
- (A) Joint
- (B) Rod
- 15) Connect stay to transmission bracket.

Tightening torque:

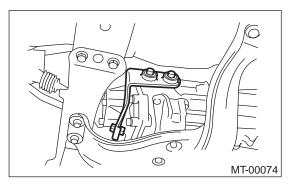
18 N·m (1.8 kgf-m, 13.0 ft-lb)



- (A) Stay
- (B) Transmission bracket
- 16) Install propeller shaft. <Ref. to DS-15, IN-STALLATION, Propeller Shaft.>
- 17) Install heat shield cover.



18) Install hanger bracket on right side of transmission.



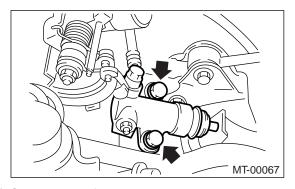
19) Install front, center, rear, exhaust pipe and muffler.

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

- 20) Install under cover.
- 21) Install operating cylinder.

Tightening torque:

37 N·m (3.8 kgf-m, 27.5 ft-lb)



- 22) Connect the following connectors.
 - (1) Transmission ground terminal

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
- 23) Install air cleaner case stay.

Tightening torque:

16 N·m (1.6 kgf-m, 11.6 ft-lb)

- 24) Install air cleaner case and air intake duct. <Ref. to IN(H4SO)-5, INSTALLATION, Air Cleaner Case.> and <Ref. to IN(H4SO)-6, INSTALLATION, Air Intake Duct.>
- 25) Connect battery ground cable.
- 26) Pour gear oil and check the oil level. <Ref. to MT-25, Transmission Gear Oil.>
- 27) Take off vehicle from lift arms.

