
MANUAL TRANSMISSION OVERHAUL



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GENERAL

OUTLINE OF CHANGE

Of the newly introduced transmission model, the service procedures for the following unit sections are described.

- Transmission
- Clutch housing
- Reverse idler gear

SPECIFICATIONS

TRANSMISSION MODEL TABLE

<EVOLUTION-IV>

Transmission model	Gear ratio	Speedometer gear ratio	Final gear ratio	Front LSD
W5M51-1-X6A	A	29/36	4.529	Not available
W5M51-1-X6A1	A	29/36	4.529	Available
W5M51-1-X7A	A	30/36	4.529	Not available
W5M51-1-X7A1	A	30/36	4.529	Available
W5M51-1-Z6A	B	29/36	4.875	Not available
W5M51-1-Z6A1	B	29/36	4.875	Available
W5M51-1-Z7A	B	30/36	4.875	Not available
W5M51-1-Z7A1	B	30/36	4.875	Available
W5M51-1-X6A2	B	29/36	4.529	Not available
W5M51-1-X6A3	B	29/36	4.529	Available
W5M51-1-X7A2	B	30/36	4.529	Not available
W5M51-1-X7A3	B	30/36	4.529	Available

<EVOLUTION-V>

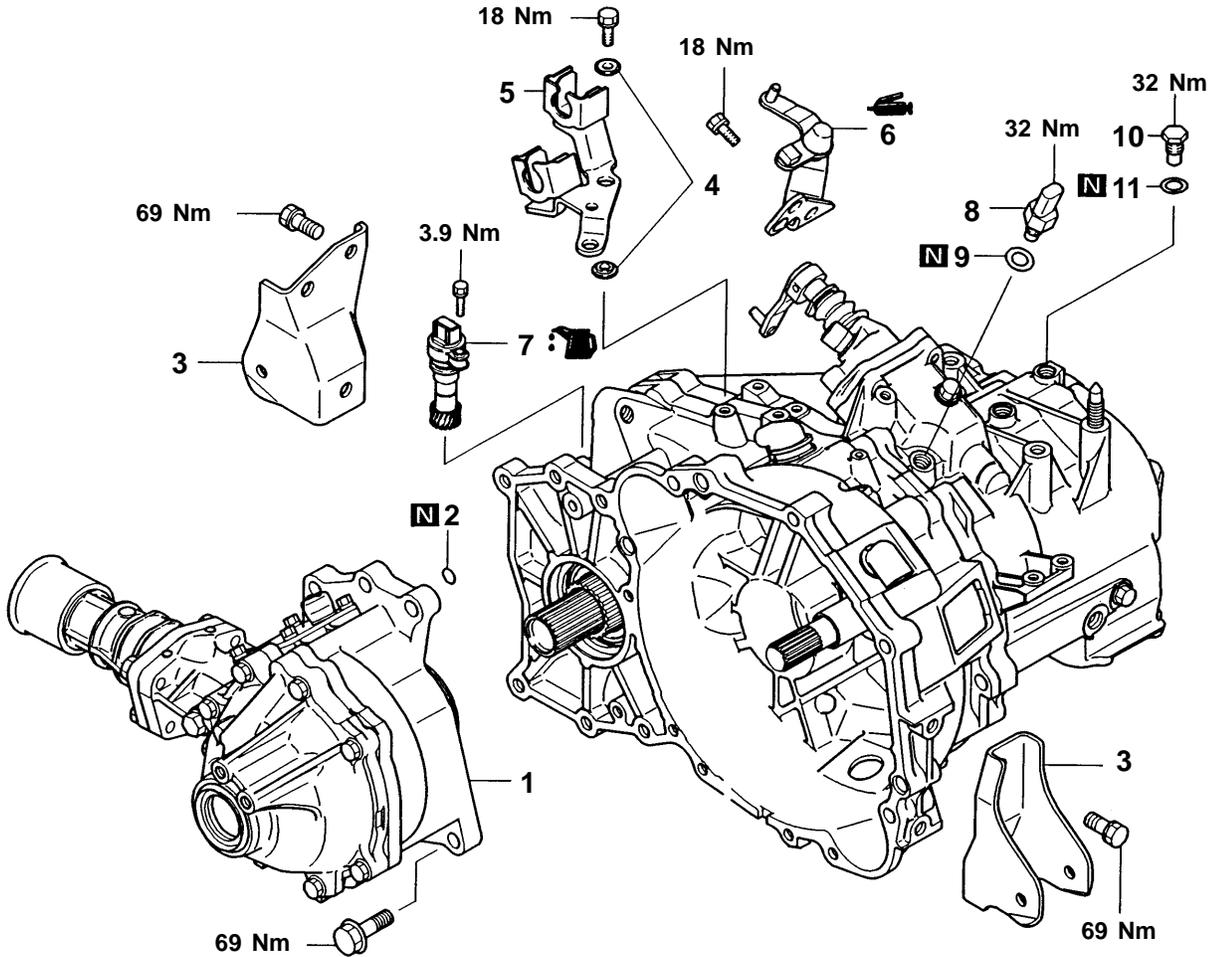
Transmission model	Gear ratio	Speedometer gear ratio	Final gear ratio	Front LSD
W5M51-2-X6A	A	29/36	4.529	Not available
W5M51-2-X6A1	A	29/36	4.529	Available
W5M51-2-Z6A	B	29/36	4.875	Not available
W5M51-2-X6A2	B	29/36	4.529	Not available
W5M51-2-Z6A1	B	29/36	4.875	Available
W5M51-2-X6A3	B	29/36	4.529	Available

<EVOLUTION-VI>

Transmission model	Gear ratio	Speedometer gear ratio	Final gear ratio	Front LSD
W5M51-2-X6A4	A	29/36	4.529	Not available
W5M51-2-X6A6	B	29/36	4.529	Not available
W5M51-2-Z6A	B	29/36	4.875	Not available
W5M51-2-X6A8	A	29/36	4.529	Available
W5M51-2-Z6A7	B	29/36	4.529	Available
W5M51-2-X6A1	B	29/36	4.875	Available

TRANSMISSION

DISASSEMBLY AND REASSEMBLY



TFM0881

Disassembly steps

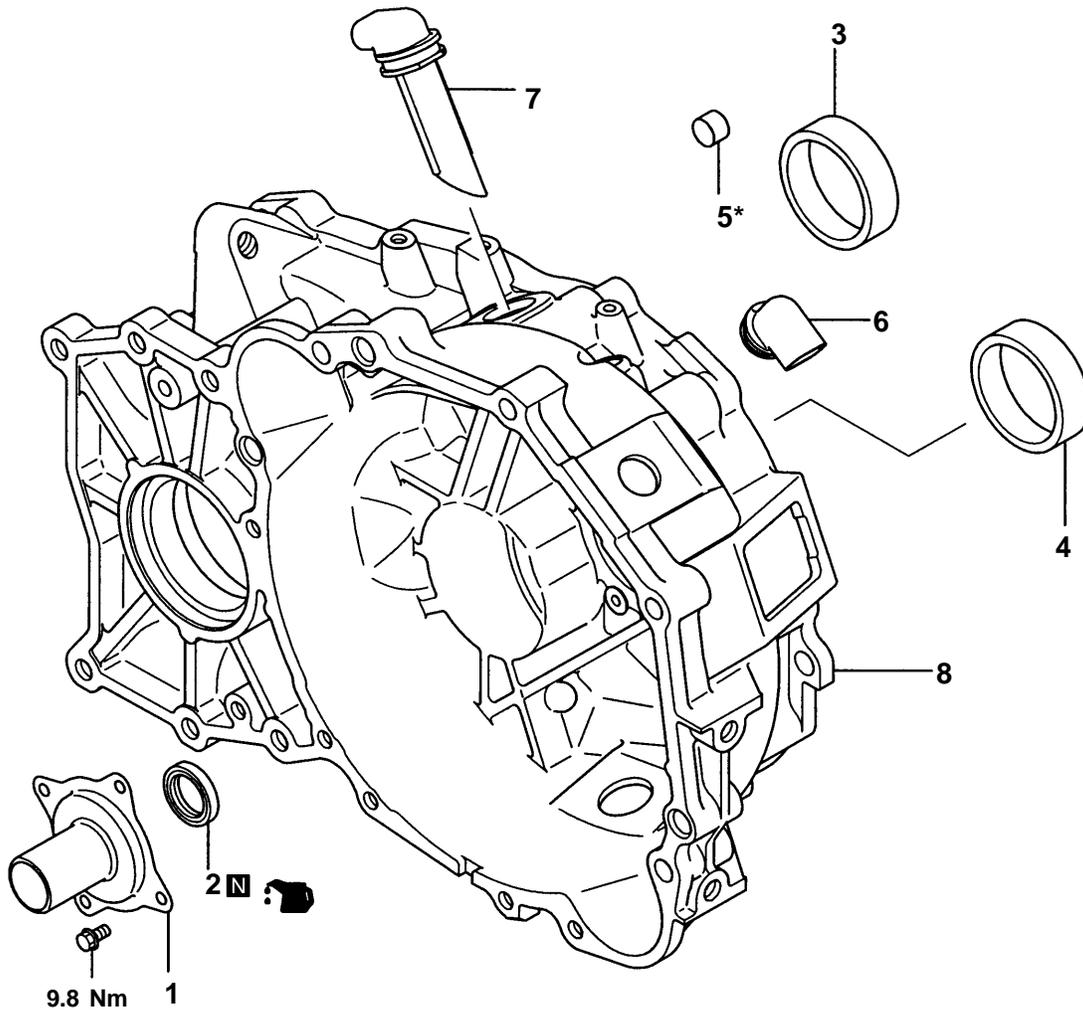
- | | |
|---|--|
| <p>▶◀ J ▶◀</p> <ol style="list-style-type: none"> 1. Transfer 2. O-ring 3. Roll stopper bracket 4. Insulator washer (EVOLUTION-IV only) 5. Shift cable bracket | <p>▶◀ I ▶◀
▶◀ H ▶◀</p> <ol style="list-style-type: none"> 6. Select lever 7. Speedometer gear 8. Back-up lamp switch 9. Gasket 10. Plug 11. Gasket |
|---|--|

NOTE:

For each service point, refer to Basic Manual. (Pub. No. S9806CNCP9)

CLUTCH HOUSING

DISASSEMBLY AND REASSEMBLY



TFM1032

Disassembly steps

- | | | | | |
|---|--|---|--|--|
| <p> ◀A▶
 ▶B▶ </p> | <p> ▶E▶
 ▶D▶
 ▶C▶ </p> | <ol style="list-style-type: none"> 1. Clutch release bearing retainer 2. Oil seal 3. Outer race 4. Outer race | <p> ▶B▶
 ▶A▶
 ▶A▶ </p> | <ol style="list-style-type: none"> 5. Bushing* 6. Cover-A 7. Cover-B 8. Clutch housing |
|---|--|---|--|--|

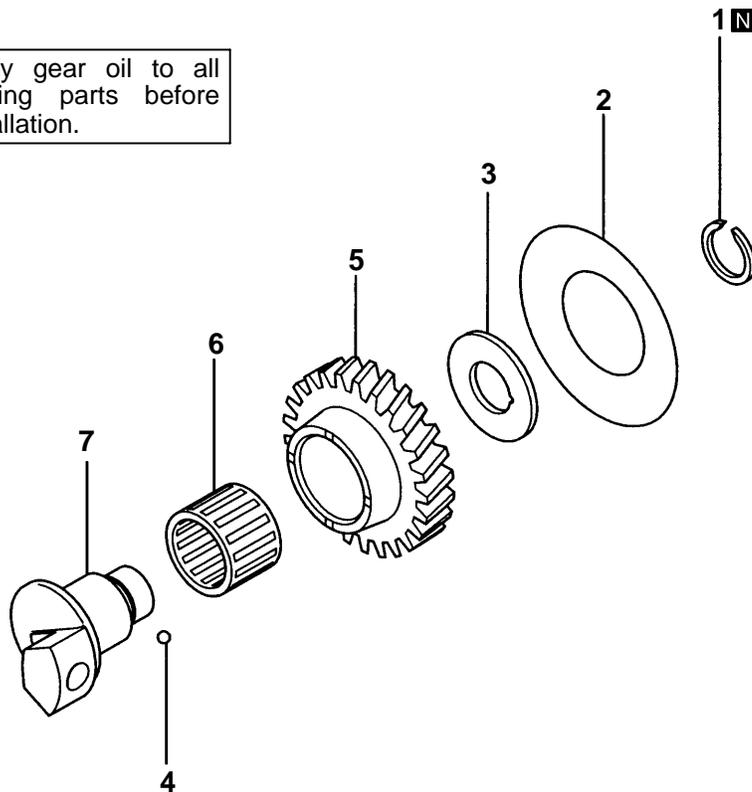
NOTE:

- (1)*: Never remove the bushings from the clutch housing.
Only the case when installing new bushings into a new clutch housing, refer to ▶B▶.
- (2) For each service point, refer to Basic Manual. (Pub. No. S9806CNCP9)

REVERSE IDLER GEAR

DISASSEMBLY AND REASSEMBLY

 Apply gear oil to all moving parts before installation.



TFM1033

Disassembly steps

1. Snap ring
2. Cone spring
(except EVOLUTION-IV)
3. Thrust washer
4. Steel ball
(except EVOLUTION-IV)
5. Reverse idler gear
6. Needle roller bearing
7. Reverse idler gear shaft

INSPECTION

NEEDLE ROLLER BEARING

- (1) Check to ensure that when the shaft and gear are combined and made to rotate, they rotate smoothly without looseness and noise.
- (2) Check to ensure that the cage is not deformed.