## MANUAL TRANSAXLE [F25M-R]

### 05–15A MANUAL TRANSAXLE [F25M-R]

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### MANUAL TRANSAXLE [F25M-R] LOCATION INDEX

1. Transaxle oil  
   (See 05–15A–2 TRANSAXLE OIL INSPECTION [F25M-R])  
   (See 05–15A–2 TRANSAXLE OIL REPLACEMENT [F25M-R])

2. Oil seal (differential)  
   (See 05–15A–2 OIL SEAL (DIFFERENTIAL) REPLACEMENT [F25M-R])

3. Manual transaxle  
   (See 05–15A–4 MANUAL TRANSAXLE (MTX) REMOVAL/INSTALLATION [F25M-R])
MANUAL TRANSAXLE [F25M-R]

TRANSAXLE OIL INSPECTION [F25M-R]

Note
• Park the vehicle on level ground.

1. Remove the oil level plug and the washer.
2. Verify that the oil is near the bottom of the plug port within the range shown in the figure.
   • If the oil level is low, add the specified type of oil to the bottom of the plug port through the oil level plug hole.

Specified oil
Grade: API service GL-4 or GL-5
Viscosity: SAE 75W—90 (All season) or SAE 80W—90 (Above 10 °C [50 °F])

3. Install a new washer and the oil level plug.

Specified oil
Grade: API service GL-4 or GL-5
Viscosity: SAE 75W—90 (All season) or SAE 80W—90 (Above 10 °C [50 °F])

TRANSAXLE OIL REPLACEMENT [F25M-R]
1. Remove the drain plug and the washer.
2. Drain the oil into a container.
3. Install a new washer and the drain plug.

Specified oil
Grade: API service GL-4 or GL-5
Viscosity: SAE 75W—90 (All season) or SAE 80W—90 (Above 10 °C [50 °F])
Capacity (approximate quantity)
2.68 L (2.83 US qt, 2.36 Imp qt)

4. Remove the oil level plug and the washer. Add the specified amount and type of oil through the oil level plug hole until the level reaches the bottom of the oil level plug hole.

5. Install a new washer and the oil level plug.

OIL SEAL (DIFFERENTIAL) REPLACEMENT [F25M-R]
1. Drain the transaxle oil into a container.
2. Separate the drive shaft and joint shaft from the transaxle. (See 03–13–3 JOINT SHAFT REMOVAL/INSTALLATION.) (See 03–13–9 DRIVE SHAFT REMOVAL/INSTALLATION.)
3. Remove the oil seal using a screwdriver and seal remover.

05–15A–2
4. Using the SST and a hammer, tap the new oil seal in evenly until the SST contacts the transaxle case.
5. Coat the oil seal lip with transaxle oil.
6. Insert the drive shaft and joint shaft to the transaxle. (See 03–13–3 JOINT SHAFT REMOVAL/INSTALLATION.) (See 03–13–9 DRIVE SHAFT REMOVAL/INSTALLATION.)
7. Add the specified amount and type of transaxle oil. (See 05–15A–2 TRANSAXLE OIL REPLACEMENT [F25M-R].)
1. Remove the battery, battery cover, and battery tray.
2. Remove the fresh-air duct and air cleaner component.
3. Remove the wheels and tires and splash shields.
4. Remove the EGR pipe, front pipe and TWC. (See 01–15–1 EXHAUST SYSTEM REMOVAL/INSTALLATION.)
5. Drain the transaxle oil into a container.
6. Remove the starter. (See 01–19–1 STARTER REMOVAL/INSTALLATION.)
7. Remove in the order indicated in the table.
8. Install in the reverse order of removal.
9. Add the specified amount of the specified transaxle oil. (See 05–15A–2 TRANSAXLE OIL REPLACEMENT [F25M-R].)
10. Warm up the engine and transaxle, inspect for oil leakage, and inspect the transaxle operation.

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**Diagram:**

- Diagram showing the components and their connections.
- Dimensions and specifications indicated in the diagram.

**05–15A–4**
Lower Arm Ball Joint Removal Note

Caution

• Wrap a rag around the ball joint dust seal to protect it from getting damages.

1. Pry the lower arm out of the knuckle.

No.4 Engine Mount Bracket Removal Note

1. Support the engine using the SST before removing the No.4 engine mount bracket.
2. Remove the No.4 engine mount bracket.

Manual Transaxle (MTX) Removal Note

1. Loosen the SST (49 E017 5A0) and lean the engine toward the transaxle.
2. Support the transaxle on a jack.
3. Remove the transaxle mounting bolts.
4. Remove the transaxle.
**Manual Transaxle (MTX) Installation Note**

1. Set the transaxle on a jack and lift into place.
2. Install the transaxle mounting bolts.

**Engine Mount Member Installation Note**

1. Verify that the engine mount rubbers are installed as shown.
2. Put the No.2 engine mount stud bolts in the installation holes when installing the engine mount member.
3. Tighten bolt A and nut B.

**Tightening torque**
- Bolt A: 67—89 N·m (6.8—9.1 kgf·m, 50—65 ft·lbf)
- Nut B: 67—93 N·m (6.8—9.5 kgf·m, 50—68 ft·lbf)
4. Tighten nuts C.

**Tightening torque**
- Nut C: 67—93 N·m (6.8—9.5 kgf·m, 50—68 ft·lbf)
5. By aligning the holes with the stud bolts, install the No.4 engine mount bracket to the transaxle.
6. Align the hole of the No.4 engine mount bracket with the No.4 engine mount rubber on vehicle, and temporarily tighten bolt D.
7. Tighten nuts E, then bolt D.

**Tightening torque**
- Bolt D and nut E: 67—93 N·m (6.8—9.5 kgf·m, 50—68 ft·lbf)
8. Remove the SST (49 E017 5A0).