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| <b>Subject:</b><br><br>TAPPING NOISE FROM MANUAL TRANSAXLE | <b>Bulletin No:</b> 05-003/15  |
|  | <b>Last Issued:</b> 03/18/2015 |

## APPLICABLE MODEL(S)/VINS

2014 Mazda3 vehicles (Japan built) with VINs lower than JM1BM\*\*7\*\*\*206598 (produced before April 23, 2014)

2014-15 Mazda3 vehicles (Mexico built) with VINs lower than 3MZBM\*\*\*\*\*129609 (produced before July 21, 2014)

## DESCRIPTION

Some vehicles may exhibit a tapping noise from the manual transaxle when the clutch is engaged in any gear after engine start. This concern may be caused by the reverse idler gear being damaged under the following driving condition. If the wheels are spinning at a high speed in reverse on a frozen surface and the gripping force is recovered for both wheels at the same time on a dry surface, the impact load applied to the transaxle could be momentarily excessive, causing a tooth to break on the reverse idler gear.

**NOTE:** In the worst case, the vehicle may not move in reverse gear.

The material of the reverse idler gear has now been changed to meet this sort of driving condition.

Customers having this concern should have their vehicle repaired using the following repair procedure.

## REPAIR PROCEDURE

1. Verify customer concern. Confirm with the customer that the driving condition mentioned above is when the noise started.
2. Confirm that the noise occurs when the clutch is engaged with the engine running.

**NOTE:** If the primary shaft rotates, the reverse idler gear spins so the noise occurs in any gear.

3. Replace the transaxle assembly according to the instructions on MS3 online or the Workshop Manual (section 05-15 MANUAL TRANSAXLE REMOVAL/INSTALLATION).
4. Verify repair.

## PART(S) INFORMATION

**NOTE:**

- The part number of the Manual Transaxle Assembly, which is applicable to this TSB, may be changed in the future. Always check the EPC for the latest part number.
- MASH approval is required for transmission assembly replacement.

| Part Number  | Description                 | Qty. | Notes                     |
|--------------|-----------------------------|------|---------------------------|
| C643-03-000  | Manual Transaxle Assembly   | 1    | MASH approval is required |
| G054-25-421  | Clip for drive shaft        | 1    | Replacement part          |
| D651-33-042A | Wheel Hub Nut               | 2    | Replacement part          |
| T060-26-169A | Clip for tie-rod end        | 2    | Replacement part          |
| KD31-32-099  | Bolt for intermediate shaft | 1    | Replacement part          |

## WARRANTY INFORMATION

**NOTE:**

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.
- This repair will be covered under Mazda's Powertrain Limited Warranty.
- Additional diagnostic time cannot be claimed for this repair.

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| Warranty Type                   | A                   |
| Symptom Code                    | 82                  |
| Damage Code                     | 9W                  |
| DTC                             | P0300               |
| Part Number Main Cause          | C643-03-000         |
| Qty.                            | 1                   |
| Operation Number / Labor Hours: | XXL18XRX / 3.6 Hrs. |