

# Technical Service Bulletin

Mazda North American Operations  
Irvine, CA 92618-2922



<b>Subject:</b>  <b>GRINDING NOISE FROM MANUAL TRANSMISSION IN 2ND AND/OR 3RD GEAR AND/OR HARD TO SHIFT INTO 2ND AND/OR 3RD GEAR</b>	<b>Bulletin No.:</b> 05-001/17
	<b>Last Issued:</b> 10/09/2017

## BULLETIN NOTES

This bulletin supersedes the previously issued bulletin(s) listed below. The changes are noted in Red.

Previous TSBs:	Date(s) Issued:
05-001/17	06/08/17, 03/17/17 and 02/15/17
05-007/16	12/07/16, 11/11/16 and 10/28/16

## APPLICABLE MODEL(S)/VINS

2016-2017 MX-5 vehicles (soft top only) with VINs lower than JM1ND\*\*\*\*H\*121392 (produced before September 6, 2016)

## DESCRIPTION

Some vehicles may exhibit one or more of the following symptoms with the manual transmission.

- A grinding noise occurs when the transmission is shifted from 1st to 2nd and/or from 2nd to 3rd gear or in the neutral position with the engine idling.
- It is impossible to shift into 2nd and/or 3rd gear while there is no problem shifting into other gears.

This may be caused by damage to 2nd and/or 3rd gears if the vehicle was driven with rapid acceleration and deceleration using frequent shift changes. To eliminate this concern, the configuration of the 2nd and 3rd gears has been changed to increase the rigidity.

**NOTE:** Transmissions with the serial No. "6TJ0701679" or higher are modified.



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

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## REPAIR PROCEDURE

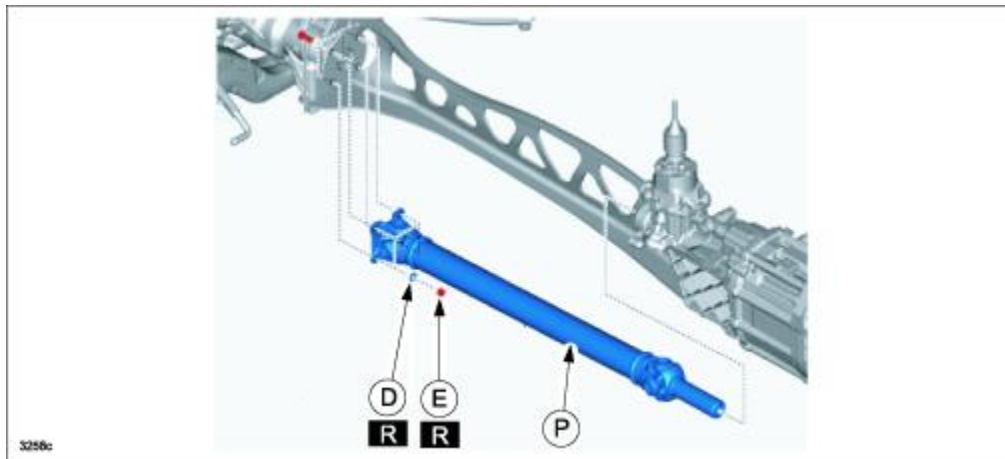
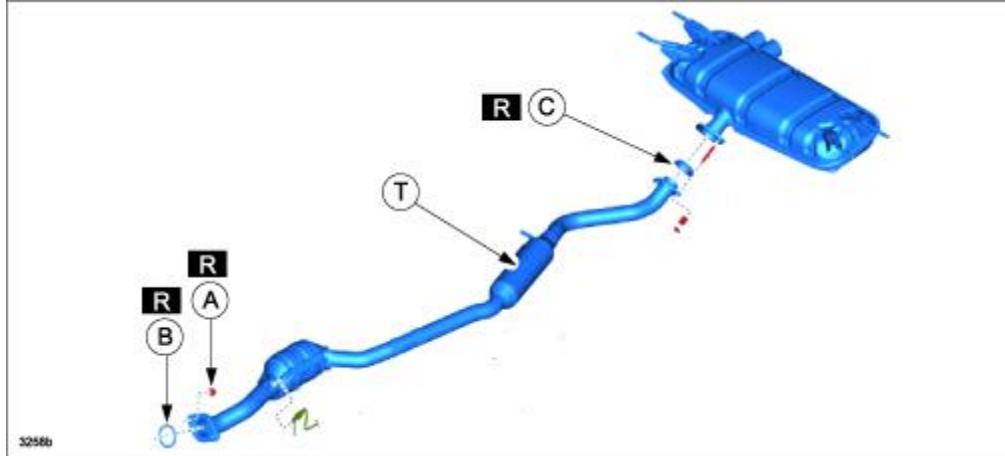
1. Verify the customer concern.
2. Replace the complete manual transmission with a modified one according to the instructions on MGSS (TRANSMISSION REMOVAL/INSTALLATION [M66M-D]).
3. Verify the repair.

## PARTS INFORMATION

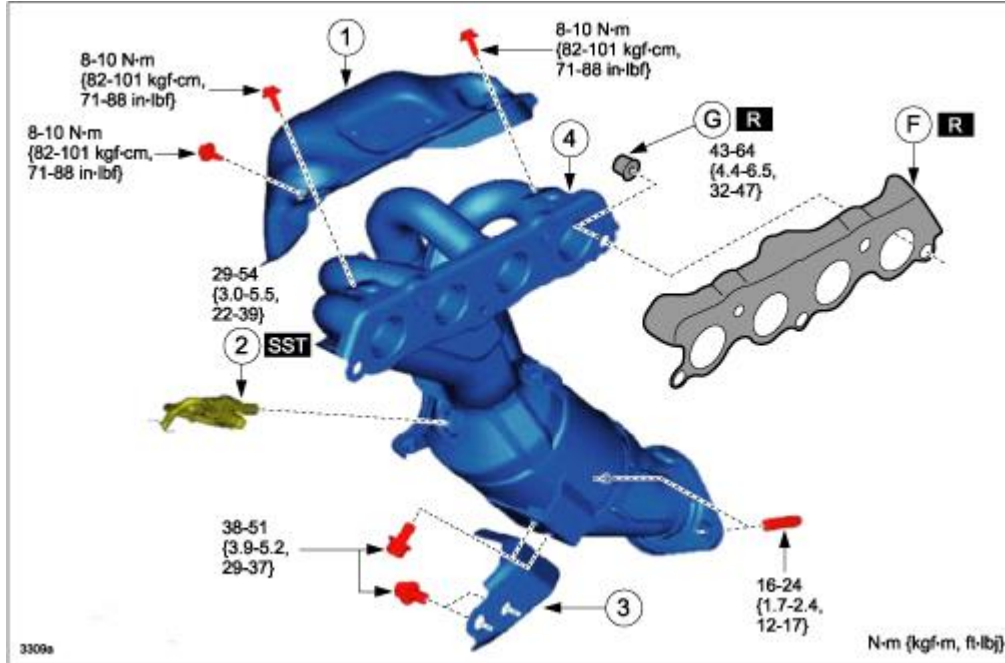
Parts Number	Description	Qty.	Notes
M602-03-000	Manual Transmission Complete	1	Manual transmission replacement requires MASH authorization.
9994-61-000	Nut, TWC (T)	2	A
PE23-40-305	Nut, TWC (T)	1	B
RFK2-40-581	Seal Ring, TWC (T)	1	C
1368-25-124	Nut, Propeller Shaft (P)	4	D
9997-11-000	Spring Washer, Propeller Shaft (P)	4	E
PEJ5-13-460	Gasket, Exhaust Manifold (2.0L)	1	F
9YB1-01-006	Nut, Exhaust Manifold	5	G

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Replacement Parts Location



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## 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 term.
- Manual transmission replacement requires MASH authorization. Contact MASH at 888-832-8477, option 2, to obtain prior authorization.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	24
Damage Code	9A
Part Number Main Cause	M602-03-000
Quantity	1
Operation Number / Labor Hours:	XXM9GARX / 4.7 Hrs. (Without front suspension tower bar) XXM9GBRX / 4.8 Hrs. (With front suspension tower bar)

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