



MAZDA DEALER EMAIL

September 28, 2022

Attention: Mazda General, Parts and Service Managers

Subject: Dealer Rework (DRW) 51 – 2022MY MX-5 Rear Differential Noise Concern

Mazda Dealer Partners,

Mazda Motor Corporation has decided to take corrective action on certain 2022MY MX-5 built in Japan from September 5th to September 8th, 2022. All vehicles in this campaign must be repaired prior to retail delivery.

Concern Outline:

On the subject vehicles, an abnormal noise may be heard from the rear differential when the vehicle is operating around 68 mph. The noise is caused by improper differential teeth contacting between the ring gear and drive pinion.

Number of Affected Vehicles:

Country	Vehicle	Number of vehicles*
US	MX-5 with A/T	51

* No vehicles expected to be shipped to the Northeast Region

Parts:

Replace the differential and related one time use parts. Differential assemblies to support this repair are in transit to MNAO and are expected to arrive by mid October 2022.

To order a differential, email the DAG with the DRW51 VIN and dealer code. Once the VIN is confirmed, the DAG will place a CEO for your dealership. DAG Email: corpdag@mazdausa.com

Outline of Repair:

All dealers receiving affected vehicles are to replace rear differential assembly component as outlined in the Parts and Warranty documentation on Mazda Global Service Support (MGSS). For this DRW, MASH authorization is **NOT** required. Some vehicles will start shipping from ports at the end of this week, and the remaining vehicles will be arriving throughout October.

Dealer Inventory, Warranty Information and Repair Procedures will be available on Mazda Global Service Support (MGSS) by end of day, September 29, 2022 and keyword searching in MGSS may not be available until the next business day. Affected vehicles will display DRW51 at the time of announcement when running a warranty vehicle inquiry.

We apologize for any inconvenience this Dealer Rework may cause you and your customers. Your understanding and support in carrying out this campaign is greatly appreciated.

If you have any questions regarding this DRW, please fill out Dealer Recall Help on OneMazda or contact the Mazda Warranty Department at warrantydept@mazdausa.com.

Sincerely,
Travis Young
Manager, Recalls, Technical Services Division
Mazda North American Operations

MAZDA NORTH AMERICAN OPERATIONS

DRW51 – Rear Differential Concern - 2022 MX-5

SUBJECT VEHICLES

Model	Subject VIN range	Subject build date range
2022MY MX-5	JM1ND**** N0 506592 – 506737	From September 5, 2022 through September 8, 2022

The asterisk symbol "*" can be any letter or number. Only the vehicles identified in this campaign have this concern.

Outline of Repair:

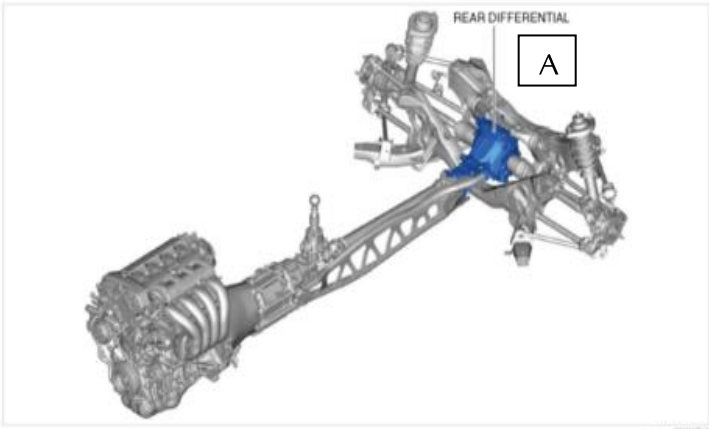
Repair will be replacement of the rear differential with required parts as outlined in the parts and warranty information for DRW51.

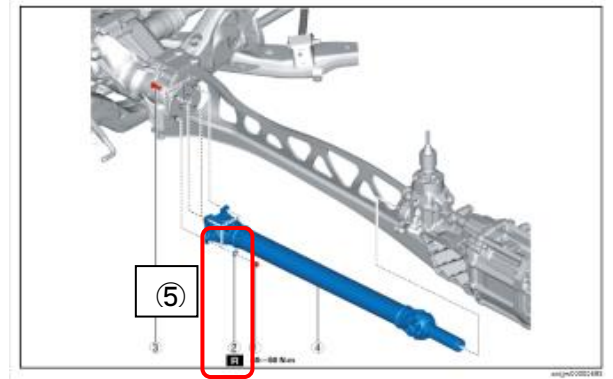
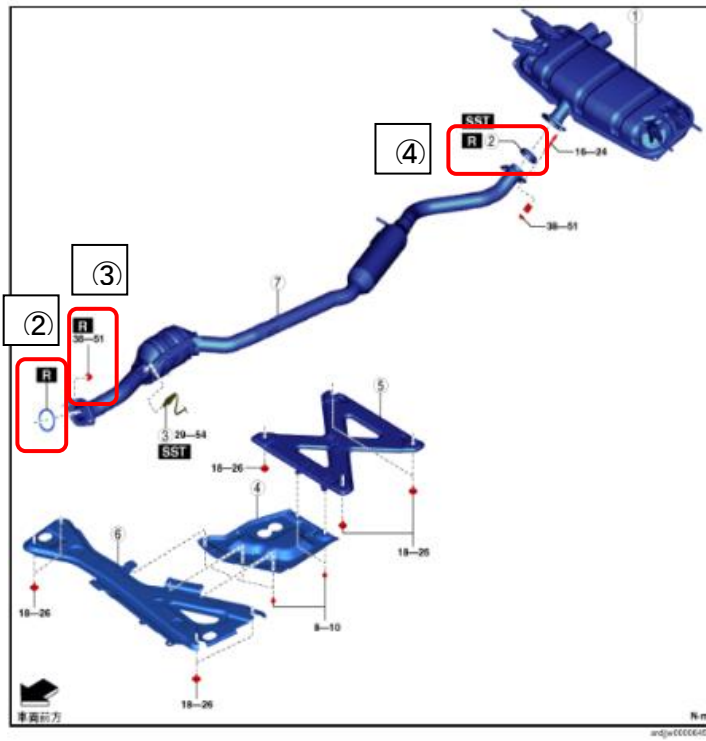
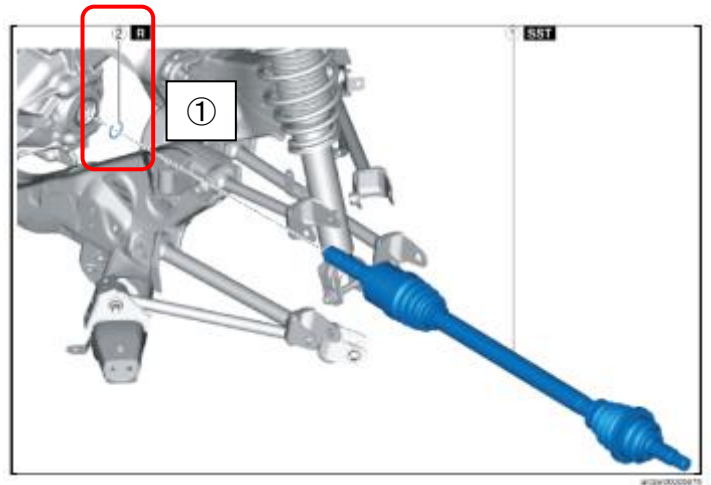
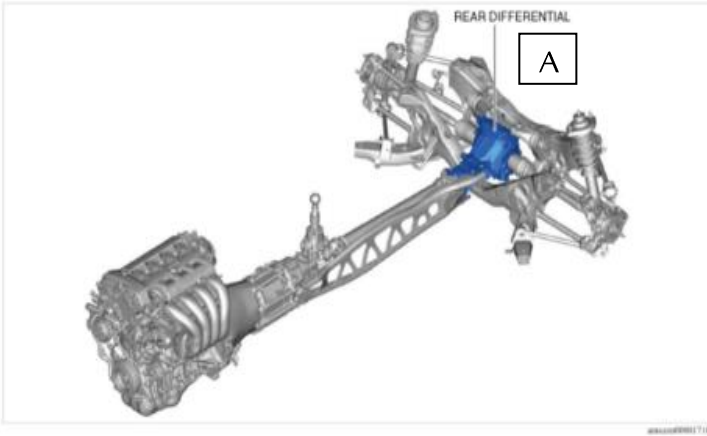
NOTE: MASH authorization requirements have been waived for this DRW.
Differential comes prefilled with oil. Double check level and adjust if needed.

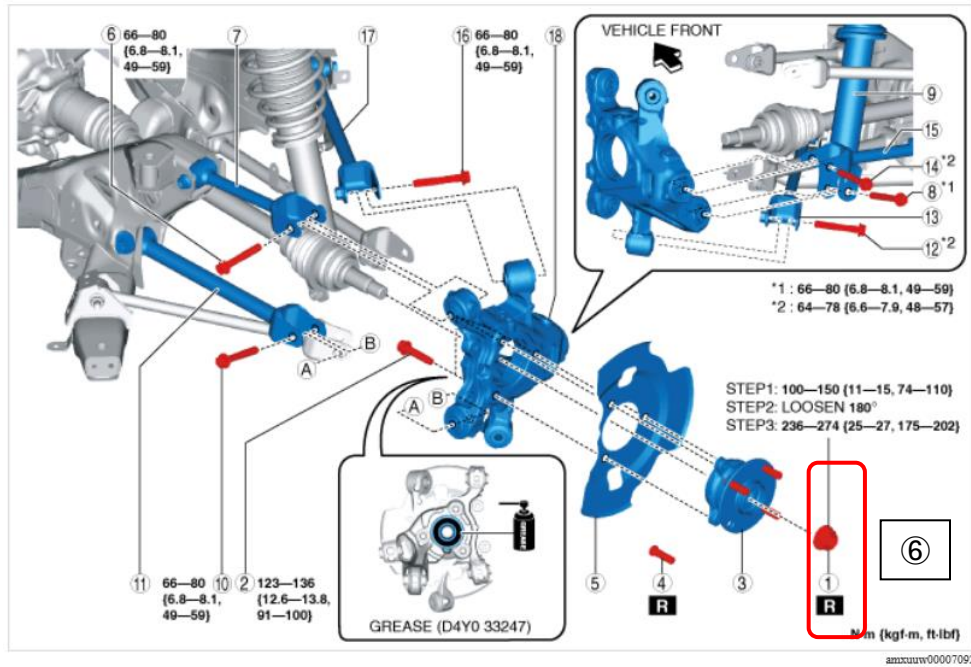
Required Parts:

No.	Description	Part Number	Quantity	Note	Scrap
A	Driving & Differential	MA56-27-100A	1		Yes
①	Clip	G054-25-421	2	Required when replacing the differential	Yes
②	Gasket	PE23-40-305	1		Yes
③	Nut	99946-1000	2		Yes
④	Seal Ring	RFK2-40-581	1		Yes
⑤	Spring Washer	99971-1000	4		Yes
⑥	Nut	D651-33-042A	2		Yes

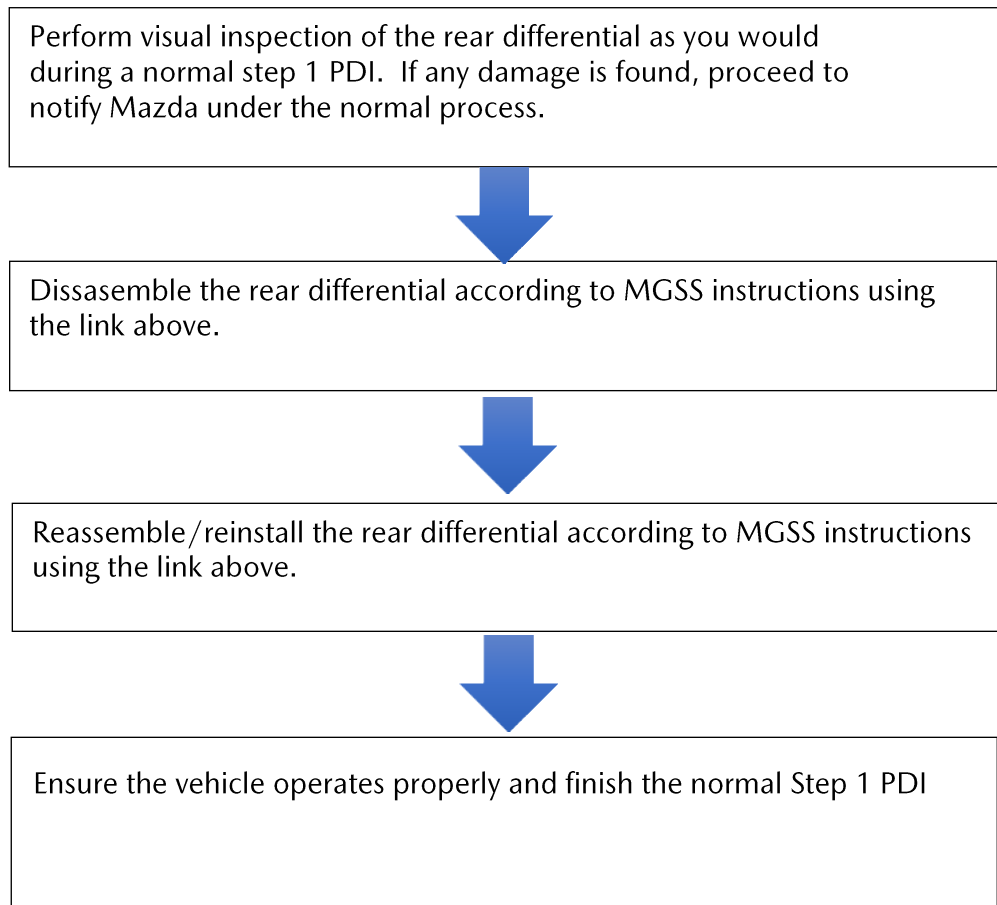
1. Remove the Differential following instructions in MGSS: [REAR DIFFERENTIAL DISASSEMBLY](#)
2. Assemble the Rear Differential following instructions in MGSS: [REAR DIFFERENTIAL ASSEMBLY](#)







Repair Flow



END OF REPAIR PROCEDURE

PARTS AND WARRANTY INFORMATION

Dealer Rework DRW51

CONDITION OF CONCERN

On certain subject vehicles, an abnormal noise may be heard from the rear differential when the vehicle is operating around 68 mph.

Causal factor: Improper tooth contact between the ring gear and drive pinion

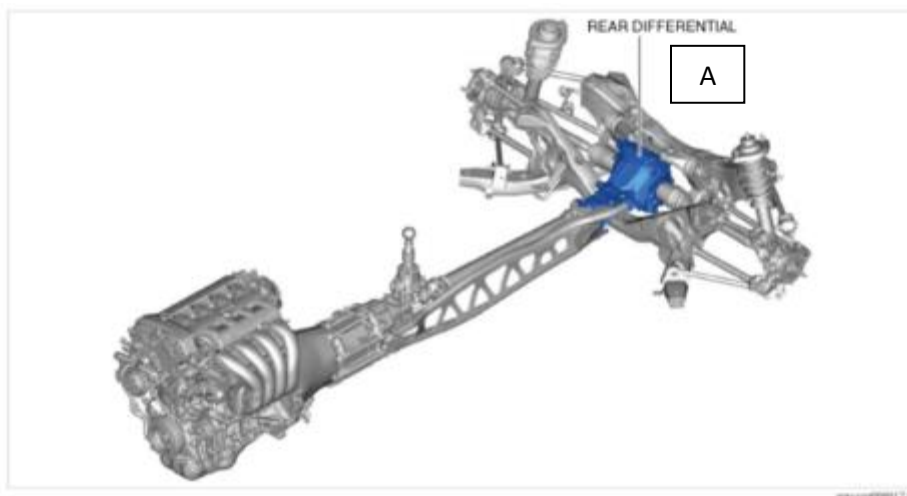
SUBJECT VEHICLES

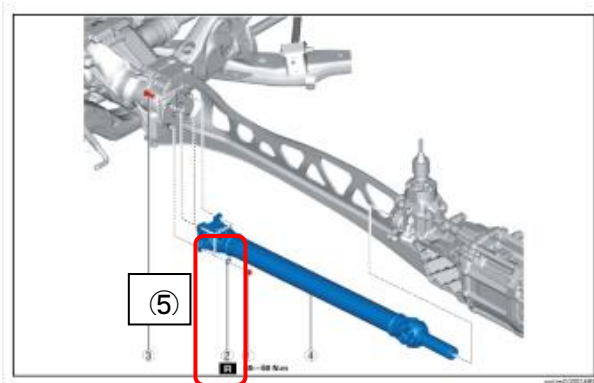
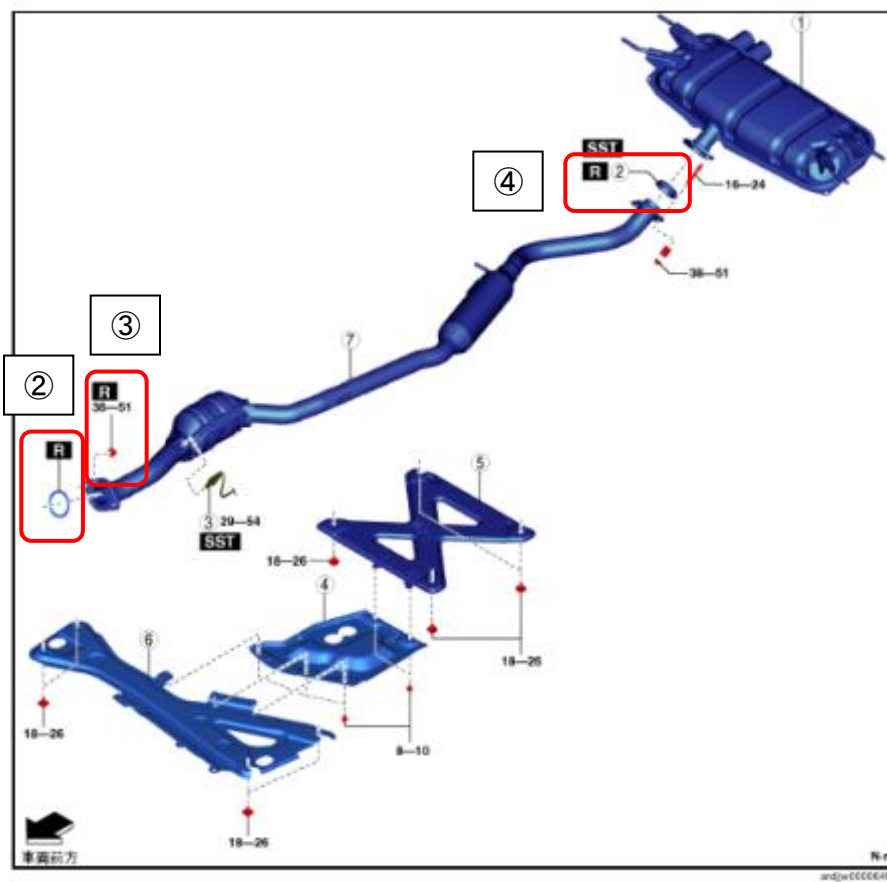
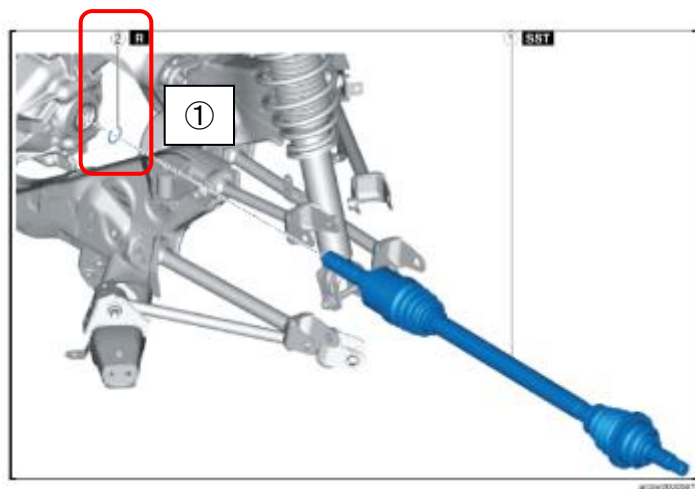
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2022MY MX-5	JM1ND**** N0 506592 – 506737	From September 5, 2022 through September 8, 2022

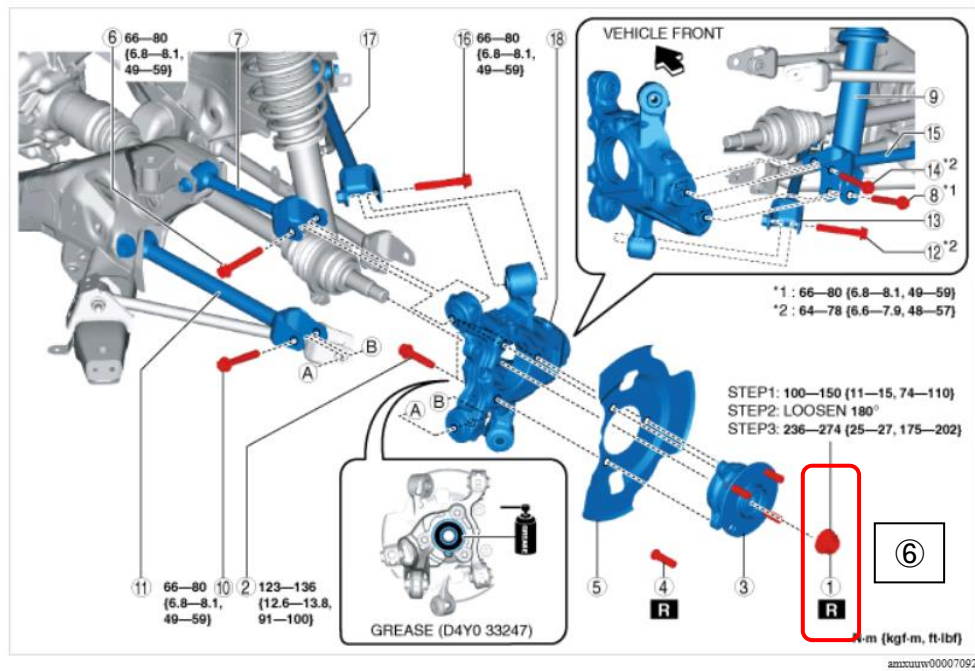
The asterisk symbol "*" can be any letter or number. Only the vehicles identified in this campaign have this concern.

PARTS INFORMATION (refer to photos below for parts identification)

No.	Description	Part Number	Quantity	Note	Scrap
A	Driving & Differential	MA56-27-100A	1		Yes
①	Clip	G054-25-421	2	Required when replacing the differential	Yes
②	Gasket	PE23-40-305	1		Yes
③	Nut	99946-1000	2		Yes
④	Seal Ring	RFK2-40-581	1		Yes
⑤	Spring Washer	99971-1000	4		Yes
⑥	Nut	D651-33-042A	2		Yes
N/A	Fill Plug Washer, if replaced during level check.	995641800	1		Yes







WARRANTY CLAIM PROCESSING INFORMATION

	Replacement of Rear Differential Assembly
Process Number	AN017A
Symptom Code	99
Damage Code	99
Part Number Main Cause & Quantity	MA56-27-100 & 1 pc
Related Part Number & Quantity	G054-25-421 & 2 pcs PE23-40-305 & 1 pc 99946-1000 & 2 pcs RFK2-40-581 & 1 pc 99971-1000 & 4 pcs D651-33-042A & 2 pcs
Labor Operation Number	XXW74XRX
Labor Hours	2.7 hrs.

REPAIR PROCEDURE

Replace the rear differential assembly with a new one according to the Workshop Manual. Differential gear oil should not be required as it comes prefilled. Check oil level
MASH authorization is not required for this campaign.

RENTAL CAR INFORMTION

There is no rental vehicle program for this campaign

