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<b>Subject:</b>  <b>WHINING NOISE FROM REAR DIFFERENTIAL</b>	<b>Bulletin No:</b> 03-002/16
	<b>Last Issued:</b> 03/17/2016

## BULLETIN NOTE

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

Previously Issued TSBs:	Date(s) Issued
03-004/14	09/09/14

## APPLICABLE MODEL(S)/VINS

2006-2013 MX-5 vehicles with VINs lower than JM1NC\*\*\*\*\*233232 (produced before May 29, 2013)

## DESCRIPTION

Some vehicles may exhibit a whining noise from the rear differential when driving.

The concern may be caused by improper tooth contact pattern of the rear differential gear from abnormal wear. This abnormal wear is caused by gear tooth lapping compound (used during the production) being left on beyond the allowable amount. The production control has been improved to reduce the amount of remaining lapping compound.

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

## REPAIR PROCEDURE

1. Verify customer concern.
2. Contact MASH at 888 832-8477, option 2, to obtain authorization to replace the rear differential component. Refer to MS3 online instructions or Workshop Manual section 03-14.
3. Verify repair.

**CONSUMER NOTICE:** The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourselfers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical---including photocopying and recording and the use of any kind of information storage and retrieval system ---without permission in writing.

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## PART(S) INFORMATION

Part Number	Description	Qty.	Notes
MA29-27-100E	Driving and Differential	1	5MT
MA30-27-100E			6AT
MA33-27-100E			6MT
MS06-27-100F			6MT with LSD

**NOTE:**

- Confirm the part number in the EPC for the VIN in repair.
- Rear differential component replacement requires MASH authorization. Contact MASH at 888-832-8477, option 2, to obtain prior authorization.

## 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.
- Rear differential component 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	82
Damage Code	9C
Part Number Main Cause	****-27-100
Qty.	1
Operation Number / Labor Hours:	XXK8CXRX / 2.6 Hrs.