

<b>Subject:</b>  <b>SPARKS DURING AC CHARGING CABLE CONNECTION/DISCONNECTION</b>	<b>Bulletin No.: 30-002/25</b>
	<b>Last Issued : 10/01/2025</b>

## BULLETIN NOTES

### APPLICABLE MODEL(S)/VINS

2022-2023 MX-30

2024-2025 CX-90 (PHEV) with VINS lower than JM3KK\*\*\*\*\*237883 (produced before March 19, 2025)

2025 CX-70 (PHEV) with VINS lower than JM3KJ\*\*\*\*\*128446 produced before March 19, 2025)

### DESCRIPTION

Some vehicles may exhibit sparks when the charging cable is connected or disconnected during AC charging. Removing the charging cable while it is energized can cause sparks because the air's insulation breaks down. To eliminate this concern, the control logic of the PCM has been modified to temporarily stop AC charging upon a door unlock trigger. Customers having this concern should have their vehicle repaired using the following repair procedure.

### REPAIR PROCEDURE

1. Verify the customer concern.
2. Reprogram the **PCM** with the Mazda Modular Diagnostic System (M-MDS), using Mazda Diagnostic And Repair Software (MDARS). Refer to MDARS ECU Reprogramming Procedure.

**NOTE: Be sure to submit Diagnostic Information (ODR) data as it is a required item and will be checked during warranty claim submission. Instructions can be found under M-MDS -> MDARS (Uploading Diagnostic Information (ODR) Data).**

3. Clear any other DTC.
4. Verify the repair by starting the engine (READY ON) and confirming there is no CHECK ENGINE light ON or abnormal warning lights present.
5. Change the Charge Connector Lock setting in Mazda Connect to either "Locked When Charging" or "Locked When Connected", according to the following instruction.  
(Select "Settings" > EV system > Charge Connector Lock)

**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.

**CALIBRATION**

Model	ECU	File Name (Old)	File Name (New)	Actual time to reprogram
CX-70	PCM	MS18-186K2-K	MS18-186K2-L	4 min
		MS19-186K2-K	MS19-186K2-L	
	ECM	PW64-188K2-J	PW64-188K2-K	
	TCM	PW64-21PS1-G	PW64-21PS1-H	
CX-90	PCM	MS65-186K2-A	MS65-186K2-B	
		MS66-186K2-A	MS66-186K2-B	
	ECM	PXRC-188K2-T	PXRC-188K2-U	
	TCM	PXPN-21PS1-J	PXPN-21PS1-K	
MX-30	PCM	MH01-186K2-Q	MH01-186K2-R	
		MH04-186K2-L	MH04-186K2-M	
		MH06-186K2-K	MH06-186K2-L	
		MH08-186K2-K	MH08-186K2-L	
		MH10-186K2-J	MH10-186K2-K	
		MH11-186K2-G	MH11-186K2-H	
		MH12-186K2-F	MH12-186K2-G	
		MH13-186K2-E	MH13-186K2-F	
		MH14-186K2-C	MH14-186K2-D	
		MH15-186K2-C	MH15-186K2-D	
		MH16-186K2-E	MH16-186K2-F	
		MH17-186K2-C	MH17-186K2-D	
		MV01-186K2-M	MV01-186K2-N	
		MV02-186K2-M	MV02-186K2-N	
		MV03-186K2-K	MV03-186K2-L	
		MV04-186K2-K	MV04-186K2-L	
		MV05-186K2-L	MV05-186K2-M	
		MV06-186K2-L	MV06-186K2-M	

**NOTE:** This Service Information only is applicable for vehicles using the above calibration files.

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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 for MX-30 / California Emission Warranty (long term), TZEV Emission Warranty or Federal Emission Warranty (long term) for CX-70 / CX-90.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	85
Damage Code	9W
Part Number Main Cause	5555-18-6B1
Quantity	0
Operation Number / Labor Hours:	CX-70 and CX-90 XXX3GAFX / 0.3 Hrs (without TCM reprogramming) XXX3GBFX / 0.8 Hrs (with TCM reprogramming)
	MX-30 XXX3GDFX / 0.3 Hrs (PCM reprogramming)

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