

Repair Procedure – [Updated January 10, 2023 – Change to require use of Repair Calculator](#)

Safety Recall 5321K – Multi-Model Fuel Pump May Fail – MX-5 ONLY Supplement

A. VEHICLE INSPECTION PROCEDURE

1. Verify that the vehicle is within the following ranges:

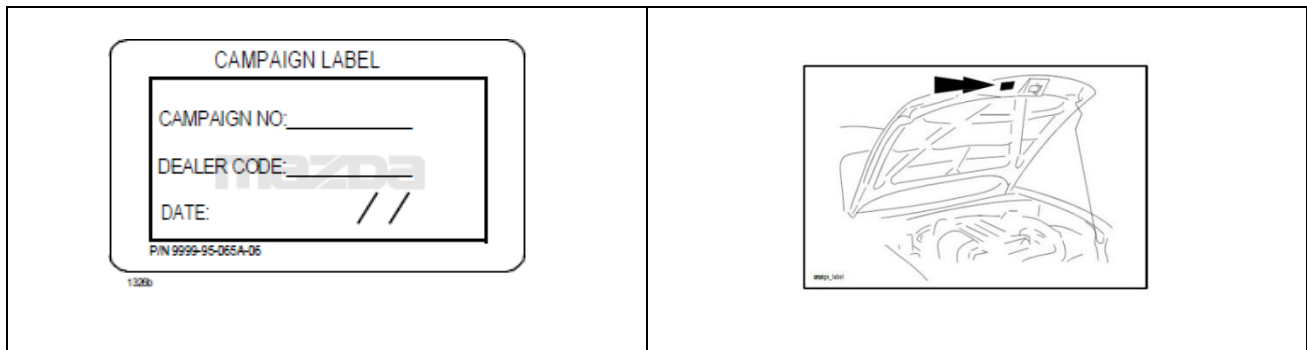
Model	Subject VIN range	Subject production date range
2018-2019MY MX-5 (ND)	JM1ND**** J0 205791 – 206202 JM1ND**** K0 300011 – 303267	From April 5, 2018 through October 29, 2018

The asterisk symbol “*” can be any letter or number.

- If the vehicle is one of the above listed, proceed to Step 2.
- If the vehicle is not within the above ranges, return vehicle to the customer or inventory.

2. Perform a Warranty Vehicle Inquiry using your eMDCS System and inspect vehicle for Campaign Labels **Recall 5321K** attached to the vehicle’s hood. Refer to eMDCS System - Warranty Vehicle Inquiry Results table below.

NOTE: Be sure to verify Recall number as the vehicle may have multiple Recall labels.



eMDCS System - Warranty Vehicle Inquiry Results:



If eMDCS displays:	Campaign Label is:	Action to perform:
If no repair date is displayed on the line with RECALL 5321K, it has not been completed on this vehicle	Present	Contact the Mazda Warranty Department at (877) 727-6626, Option 3.
	Not present	--Proceed to “REPAIR PROCEDURE”.
If repair date is displayed on the line with RECALL 5321K, it has been completed on this vehicle	Present	Return vehicle to inventory or customer.
	Not present	Complete a label and apply to vehicle's hood.
RECALL 5321K is not displayed	Does not apply	Recall does not apply to this vehicle. Return vehicle to customer.

B. REPAIR PROCEDURE



The repair calculator must be used to determine the required fuel pump to be replaced. If the part you received is not correct to the vehicle from the results of the calculator, notify your service manager and return the part immediately to obtain the correct part.

The repair calculator is in MGSS under recall 5321K.

	<p>Recall 5321K Job Aid - Repair Calculator <u>GOOGLE SHEETS OR EXCEL - MACROS MUST BE ENABLED</u> Please Read the ENTIRE Instructions:</p> <ol style="list-style-type: none">1. Hit the Button "CLEAR VIN" to make sure the VIN area is blank.2. Enter the VIN# (Vehicle Identification Number in full), in Cell B3 next to the Red Arrow. Ensure the VIN does not contain a SPACE at the beginning or end of the VIN number3. Hit "Enter" on your keyboard4. The answer of which part to install and claim is in GREEN.5. To enter another VIN, Click the "Clear VIN" Button and Enter another 17 digit VIN <p><i>*Note: You must copy all 17 characters of the VIN. It is better to copy and paste the VIN from the Warranty Inquiry Screen on eMDCS. This tool will return an error code if the VIN is not 17 digits, or does not match the affected vehicle list.</i></p>	<p><i>WARNING!! - NOT FOLLOWING THESE RULES CAN RESULT IN DEBITS, RE-REPAIRS WITH A NBV, POOR CUSTOMER EXPERIENCE AND POSSIBLE FEDERAL (NHTSA) FINES AND MISSED RECALLS.</i></p> <p><i>THERE ARE NO EXCEPTIONS TO THESE RULES.</i></p> <p><i>PLEASE SHARE WITH ALL PARTS PERSONNEL, WARRANTY ADMINISTRATOR, SERVICE ADVISOR AND TECHNICIANS!</i></p> <p><i>THE FUEL PUMP IS ALWAYS THE PART NUMBER MAIN CAUSE. THIS CALCULATOR MUST BE USED TO PREVENT THE INCORRECT FUEL PUMP BEING INSTALLED IN CERTAIN VEHICLES</i></p> <p><i>ALL REPAIRS WILL BE REVIEWED. NO CLAIM WILL BE ACCEPTED AND PAID WITH AN INCORRECT FUEL PUMP CHARGED OUT OR MISSING/INCORRECT PARTS.</i></p> <p><i>THE CLAIM MUST MATCH THE PARTS CHARGED OUT ON THE REPAIR ORDER. IF THEY ARE INCORRECT OR MISSING, DO NOT SUBMIT THE CLAIM!!!</i></p>
	<p>CLEAR VIN</p> <p>VEHICLE IDENTIFICATION NUMBER (VIN)</p> <p>ENTER VIN </p>	<p>PART NUMBER MAIN CAUSE REQUIRED TO PROPERLY REPAIR THE VEHICLE</p>

Continue to Page 3 below

Please watch the video prior to repairing:

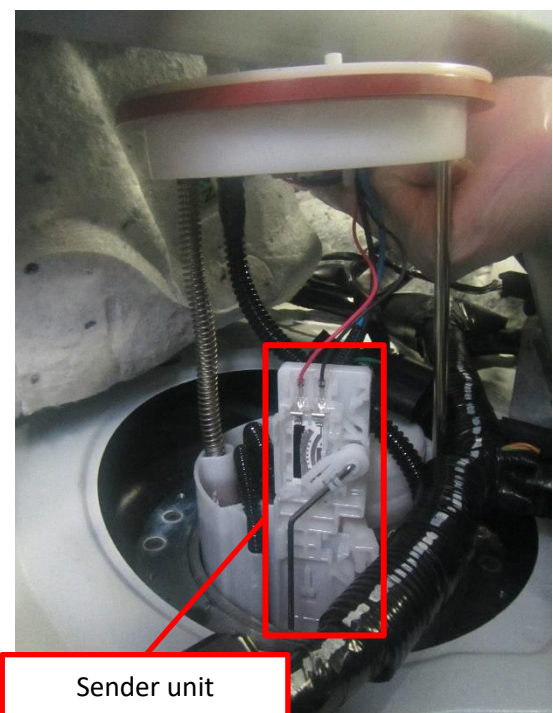
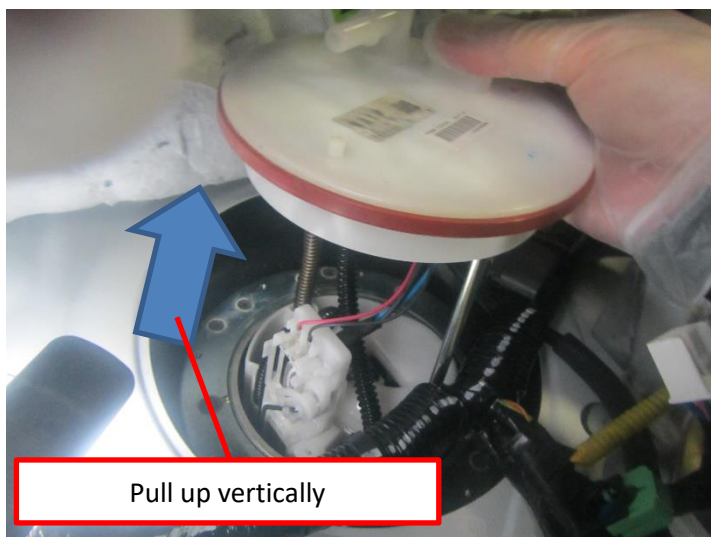
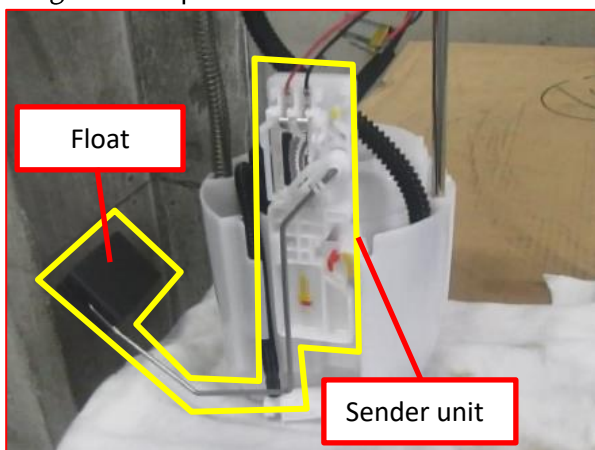
[MX-5 Repair Video Link](#)

CAUTION: The disassembly surface must be clean and flat as in the videos. Do not disassemble on a non-flat surface. Be very careful with handling the FDM unit as the fittings or hoses can break. See pages 4 and 5 in the Repair Procedure for ALL MODELS.

This repair method explains the removal of the fuel pump unit safely and most efficient way.

1. Remove the fuel pump unit from fuel tank refer to Workshop manual. [Click here for the procedure](#)
2. Pull up the fuel pump unit carefully until sender unit is appeared

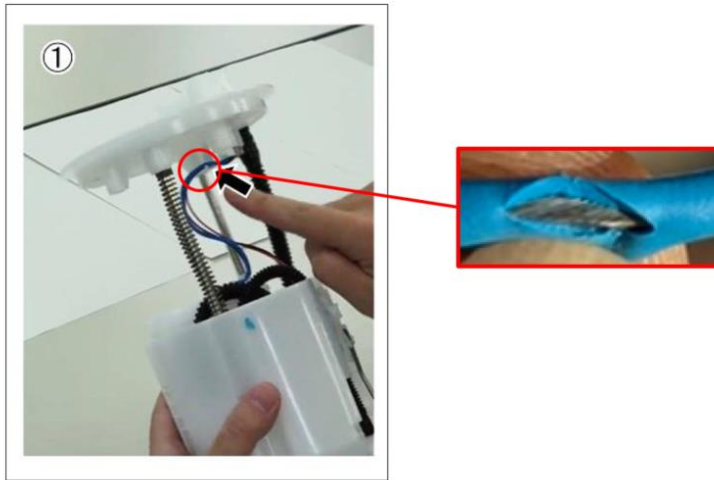
Image for the part 'Sender unit' with float. Be careful the float may damage and bend easily.



IMPORTANT NOTE: Check for broken, cut, frayed or chafed wire on FDM units as in the photo (1) below.

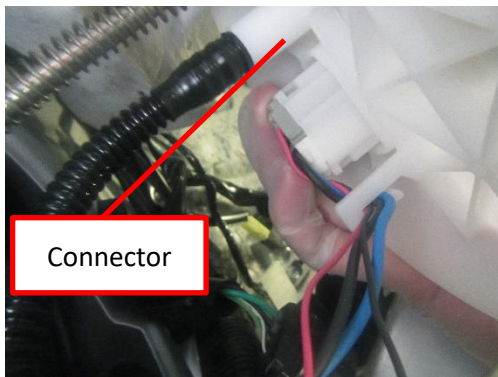
- If found to be damaged, the harness must be replaced. ***Be very careful with the harness as it can easily be damaged.***
- Part ordering: **Order the harness from the Restricted Parts Ordering (RPO) Screen through the Dealer Assistance Group (DAG).** You must have an open RO and the vehicle must be down. The Parts & Warranty information has been updated with the correct part number for the MX-5.

Harness Part Number	Model
292135-1074 (Length - 25CM)	MX-5

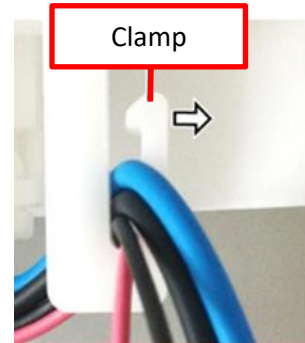


3. Remove the sender unit - refer to VIDEO on MGSS.

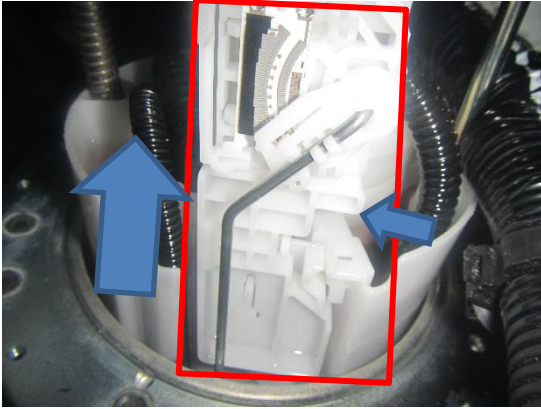
1, Remove the connector and harness from clamp.



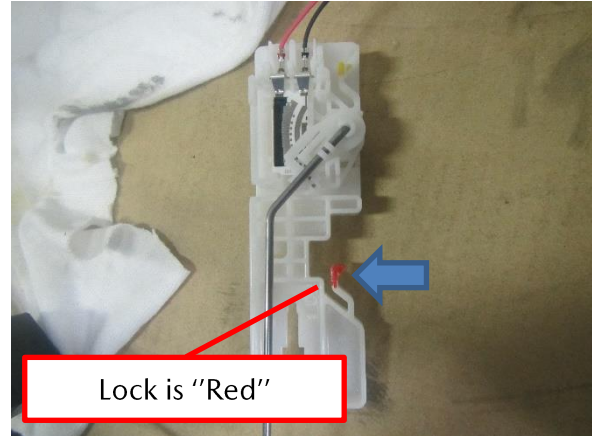
※Image for the harness with clamp.



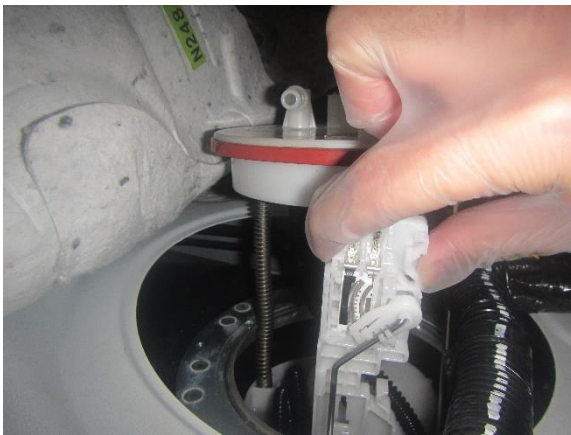
2, Release the 'Lock' then pull up the sender unit vertically.



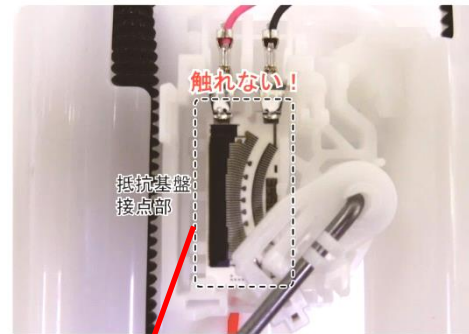
※Image for the 'Lock' position.



3, Hold the sender unit with harness up and go down the fuel pump unit vertically.

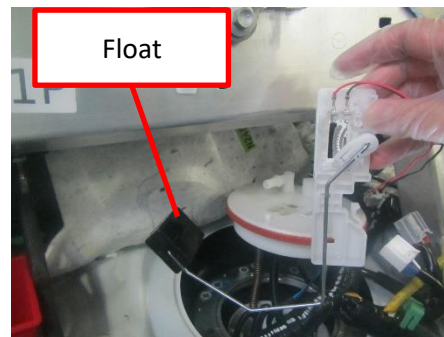


※Do not touch the sensor.

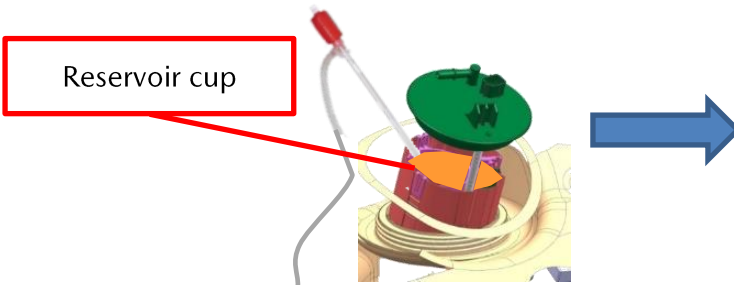


Do not touch terminals.

4, Be sure that the float part of the sender unit does not contact the fuel tank.

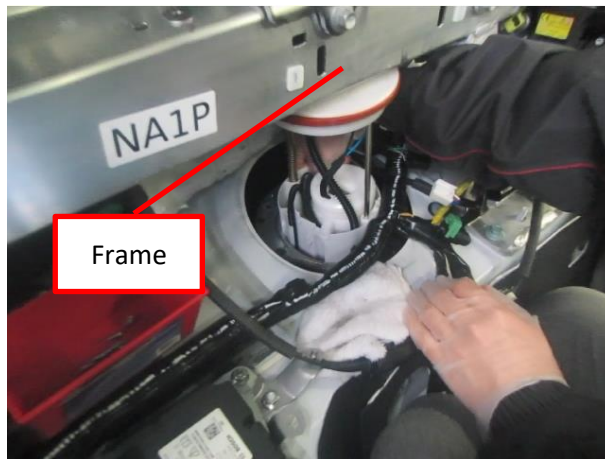


4. Remove the fuel remaining in the unit's reservoir cup with a dropper.



5. Remove the fuel pump unit refer to VIDEO on MGSS.

1, Lift the unit to the limit of the frame.

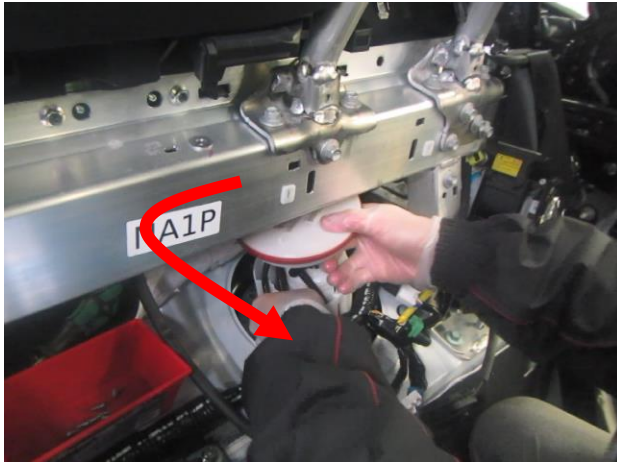


2, Apply the upper part of the unit to the frame and compress.

※Image of compression.



3, Slide the fuel pump unit as shown by the arrow to remove it from the fuel tank.

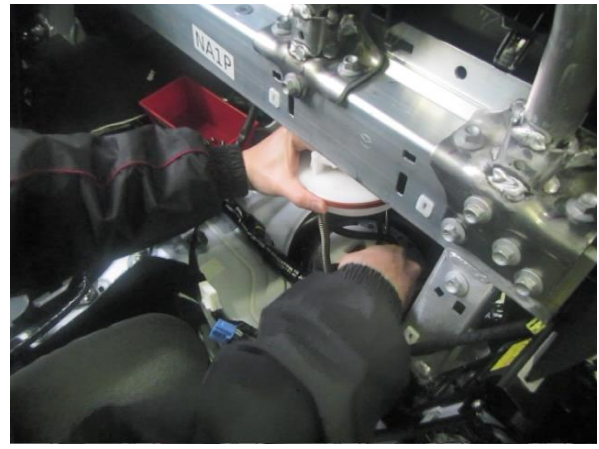
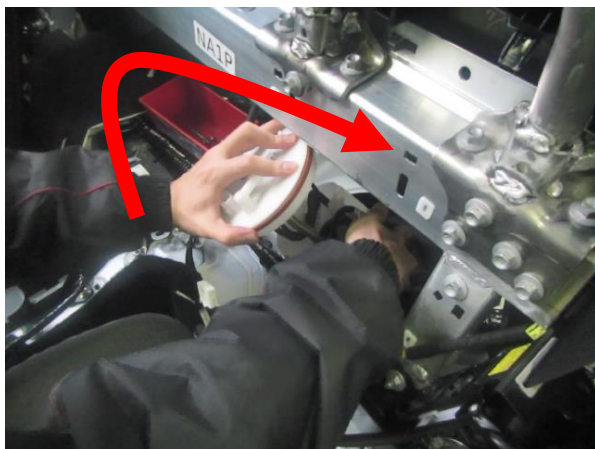


6. Proceed the removal of the fuel pump - refer to Recall 5321K Repair procedure All Models
7. Install the fuel pump unit with the sender unit removed.

1, Compress the unit.

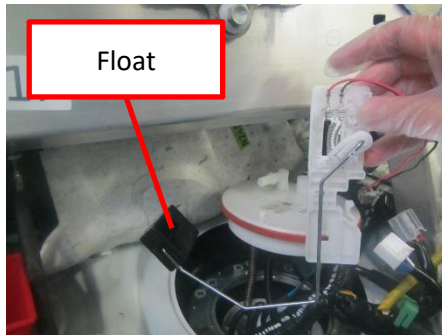


2, While compressed, push under the frame and rotate the fuel pump unit in the direction of the arrow to install the unit into the fuel tank.



8. Install the sender unit.

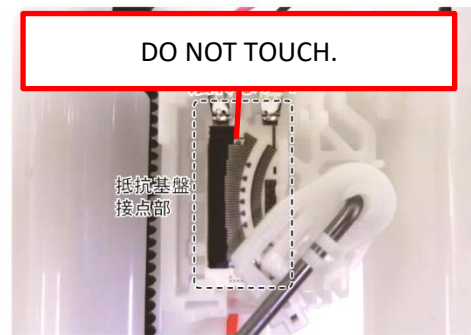
1, Reinstall the sender unit inside. Make sure that the floating part does not contact to the fuel tank.



2, Hold the sender unit in your hand and slowly lower the fuel pump unit.

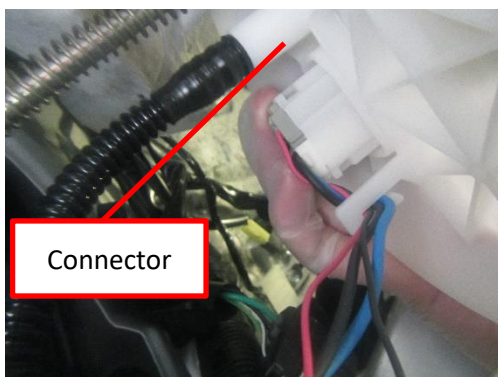


※Do not touch the sensor.

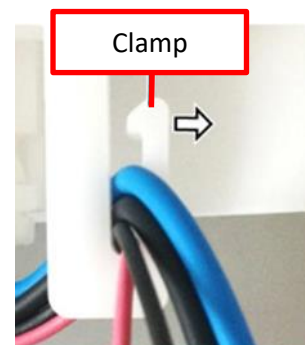


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4, Install the connector and harness from clamp.



※Image for the harness with clamp.



9. Install in the reverse of order of removal. Move to Campaign Label installation on the next page.

C. CAMPAIGN LABEL INSTALLATION

1. Fill out a yellow "Campaign Label" (9999-95-055A-06) with Campaign No: "5321K", your dealer code, today's date.

CAMPAIGN LABEL

CAMPAIGN NO: _____

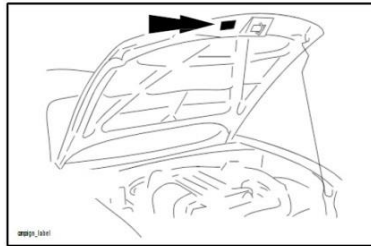
DEALER CODE: _____

DATE: ____/____/____

PIN 9999-95-055A-06

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2. Affix it to the hood as shown:



END OF REPAIR PROCEDURE