

<b>Subject:</b>  <b>VEHICLE CRANKS BUT DOES NOT START DUE TO PCM/IMMOBILIZER MALFUNCTION</b>	<b>Service Alert No.: SA-080/24</b>
	<b>Last Issued : 10/25/2024</b>

## BULLETIN NOTES

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

Previous Service Alert(s):	Date(s) Issued:
SA-048/18	11/07/18

## APPLICABLE MODEL(S)/VINS

2001-2002 Miata

## DESCRIPTION

Some vehicles may crank but not start due to a PCM/Immobilizer malfunction. If this happens, check the status of Recall 3505H.

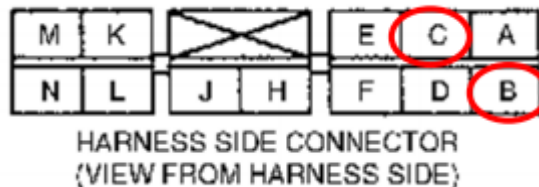
- NOTE:** Effective July 2020 recall 3505H can no longer be completed due to no parts available. The recall is also not populated in eMDCS. Advise customers inquiring about repairs that the recall cannot be completed due to time since launch of the campaign. If you have any questions about the campaign, fill out the Dealer Recall Help form on OneMazda. While the campaign can no longer be completed, for reference the repair associated with this Service Alert can be found below.

## REPAIR PROCEDURE

1. Inspect the B and C terminals of the immobilizer unit connector (vehicle harness side) and change the terminal position as necessary.

**NOTE:** It is necessary to change the position of a terminal of the immobilizer connector for the new immobilizer unit.

- If C is empty and B has a terminal, remove B terminal and install it in C position.
- If B is empty and C has a terminal, it is OK and NO terminal position change is necessary.



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**NOTE:**

- Two valid keys are required to perform PCM / Immobilizer programming. Keys may be valid or new keys.
- When an error occurs in Steps 3 to 7, repeat the procedure from Step 1.
- When an error occurs in Step 7, perform the "Reprogram error recovery procedure for both immobilizer unit and PCM replacement". (See IMMOBILIZER SYSTEM REPROGRAM PROCEDURE).
- For steps 3-8, each step should be performed within 30 seconds.

2. Install the new immobilizer unit and the PCM if not done already. (See IMMOBILIZER UNIT REMOVAL/INSTALLATION and PCM REMOVAL/INSTALLATION.)

3. Using key 1, turn the ignition switch to the ON position and verify the security light goes on and then goes off in the instrument cluster.

4. Turn key 1 to the LOCK position and verify the security light blinks once repeatedly.

5. Using key 2, turn the ignition switch to the ON position and verify the security light goes on and then goes off.

6. Turn key 2 to the LOCK position and verify the security light blinks twice repeatedly.

**NOTE:** Perform steps 7-8 if more than 2 keys are being reprogrammed, otherwise go to step 9.

7. Using key 3, turn ignition switch to ON position and verify the security light goes on and then goes off.

8. Turn key 3 to the LOCK position and verify the security light blinks three times repeatedly.

**NOTE:** If there are more than three keys (valid and/or new keys), repeat the previous steps verifying that the light blinks for the number of keys being programmed.

9. Wait for 30 seconds to quit the reprogram mode.

10. After reprogramming, clear any DTCs in the PCM.

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