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Case Number: S2308000160 Rev. B

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Symptom/Vehicle Issue: Passive Entry And Start/Stop Button Are Inoperative After iBCM And/Or Fob Replacement

Discussion: After successfully programming a replacement integrated Body Control Module (iBCM) or enabling a new Fob. You may find that the Passive Entry System is inoperative and that pressing the Start/Stop button (Keyless Go) does not change the ignition switch status.

IF THIS ISSUE APPLIES:

On BV(Renegade): The iBCM and/or Fobs were replaced and programmed. The ignition cycles and starts the engine when the button end of the fob is pressed up against and actuating the Start/Stop button for at least 5 seconds.

On GG(Hornet) and GC(Tonale): The iBCM and/or Fobs were replaced and programmed. The ignition cycles and starts the engine when the button end of the fob is placed forward near Passive Entry Antenna 4 in the front center console cup holder and the Start/Stop Button is pressed for at least 5 seconds.

This condition may be caused by transposed FOBID ID start up data stored on the Stellantis server which was written to the new iBCM during initial programming and/or the new Fob during supplier preprogramming. The startup data written is permanent and cannot be changed with wiTECH or CDA.

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Diagnosis: The diagnosis and repair of this issue will vary depending on whether the iBCM or Fobs were replaced. Refer to the below information for each scenario.

iBCM Replaced: If the original iBCM still communicates, you can confirm the vehicle you are working on had reversed Fob ID data written to it during programming. Each FOBIK has a unique ID associated with it, like a serial number. This ID Number corresponds to a specific FOBIK track, up to 8 fobs can be programmed to the iBCM at a given time. For this issue, we only care about Enabled FOBIK 1 and 2 as these are part of the wakeup data that could be reversed. The ID's associated with Enabled FOBIK 1 and 2 need to match what is programmed to both the Fob and iBCM for Passive Entry and Keyless Go to operate.

Using wiTECH access the Replacement iBCM data and take note of **ENABLED FOBIK 1 AND 2** and the corresponding **ID Numbers**. Now install the Original iBCM and compare the **ID Number** against the **ENABLED FOBIK 1 AND 2**. If the **ID Number** is now assigned to a different **ENABLED FOBIK** number, you have confirmed the **ID Numbers** written to the new iBCM is reversed, inhibiting Passive Entry and Keyless Go Functions.

In the example below you can see the ID Numbers in the Replacement iBCM are reversed compared to the Original iBCM.

Original iBCM		Replacement iBCM	
Number of Fobik Enabled	02	Number of Fobik Enabled	02
ENABLED FOBIK 1	63 97 1E 01	ENABLED FOBIK 1	A0 9A 1E 01
Status Enabled FOBIK 1	EOL FOBIK	Status Enabled FOBIK 1	EOL FOBIK
ENABLED FOBIK 2	A0 9A 1E 01	ENABLED FOBIK 2	63 97 1E 01
Status Enabled FOBIK 2	EOL FOBIK	Status Enabled FOBIK 2	EOL FOBIK

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Fobs Replaced: The fobs on these vehicles are preprogrammed by the supplier and for that reason must be ordered using the VIN number. wiTECH is only used for pairing of the fobs to the vehicle.

Unlike the iBCM replacement scenario there is no data in wiTECH which can help determine if reversed FOBID data was programmed to the new fobs. Determination needs to be made based on symptoms and known facts before contacting STAR.

Confirm the following:

1. The new fobs were ordered using the VIN number.
2. The Symptom/Vehicle Issue described in this STAR Online only occurred after Fob replacement.
3. There were no wiTECH errors when pairing the new fobs.
4. The new enabled fobs allow the vehicle to start. BV: The button end of the fob is pressed against the Start/Stop Button for 5 seconds. GG/GC: the button end of the fob is placed forward in the front center console cupholder, and the Start/Stop button is pressed for 5 seconds.
5. There are no DTC's that would inhibit Passive Entry and Keyless Go operation.

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Repair: The repair will vary depending on whether the iBCM or Fobs were replaced.

1. What component were replaced?

iBCM, proceed to A.

Fobs, proceed to B.

A. Review “**iBCM Replaced**” in the diagnostics section of this STAR Online.

Were the Fob IDs for Enabled FOB1K 1 and 2 reversed when comparing data in the Original iBCM to the Replacement iBCM?

YES - Corrections to the FOB1K ID's stored on the server need to be made. To do this, open a new STAR Center Case referencing this STAR Online Publication number. When opening the case, you **MUST PROVIDE** screenshots of the Original and Replacement iBCM Fob ID data from wiTECH. The case will be reviewed by STAR and if determined necessary passed to the Electrical FTS team so corrections can be made to the FOB1K ID data stored on the server associated with the VIN.

Because the FOB ID's are permanently written to the iBCM. You are required to order a second replacement iBCM. DO NOT attempt programming until STAR confirms the data is corrected. Once the updates are confirmed to be completed, normal iBCM programming can be carried out on the second replacement iBCM. The original Fobs can still be used, Passive Entry and Keyless Go will operate normally.

NO - This STAR Online does not apply; further diagnostics are required.

Note: If you are unable to access the original iBCM, but the symptoms align with this SOL and only occurred after replacement of the iBCM. Contact STAR so the FOB1K ID data can be reviewed.

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B. Review “Fobs Replaced” in the diagnostics section of this STAR Online.

Determine if the following 5 checks are true for the vehicle you were working on:

1. The new fobs were ordered using the VIN number.
2. The Symptom/Vehicle Issue described in this STAR Online only occurred after Fob replacement.
3. There were no wiTECH errors when pairing the new fobs.
4. The new enabled fobs allow the vehicle to start. BV: The button end of the fob is pressed against the Start/Stop Button for 5 seconds. GG/GC: the button end of the fob is placed forward in the front center console cupholder, and the Start/Stop button is pressed for 5 seconds.
5. There are no DTC's that would inhibit Passive Entry and Keyless Go operation.

Are all these statements true for the vehicle you are working on?

Yes - Once you confirm all the above, open a new STAR Center Case. Reference this STAR Online Publication number and the acknowledgement of the above checks. Request the case be reviewed by the Electrical FTS team. If necessary, corrections will be made to the FOBID ID data associated with the VIN.

AFTER the updates are confirmed to be completed, replacement Fob(s) will need to be ordered using the VIN number. The corrected FOBID ID data will now be preprogrammed by the supplier to the new fobs before arriving at the dealer. Once received you can complete the normal Enable FOBID procedure in wiTECH to pair the new fobs to the iBCM. The original iBCM can still be used. Passive Entry and Keyless Go will operate normally.

NO - This STAR Online does not apply; further diagnostics are required.

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BOTH iBCM and Fobs Replaced: The diagnostics needs to be followed as described in the individual component scenarios. If needed data corrections will be made. As previously stated, a new iBCM will need to be ordered and not programmed until AFTER data corrections made. New Fobs will need to be ordered AFTER data corrections are made so the supplier can preprogram them with the corrected startup data.

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