



Technical Service Bulletin

Bulletin No.: REC-004-23

Date: March 1, 2024

Subject: Electronic Parking Brake May Fail

Applicability: Certain 2021-2022 Xos SV05 vehicles

Service Category: Parking Brake

Section: EPB Module Replacement

Market: USA, Canada

Introduction:

Faulty communication issues with the current Wilwood Emergency Parking Brake (EPB) Modules that control the EPB system may cause the parking brake to fail in certain 2021-2022 Xos vehicles. Follow the steps below to replace the current Wilwood EPB Module with an updated Wilwood EPB Module to resolve this issue.

Repair Procedure Overview:

1. Confirm affected VIN.
2. Move the vehicle to a safe location with a flat surface and with a wheel chock in place if available.
3. Replace the current Wilwood EPB Module and install a new Wilwood replacement module as instructed below.
4. After installing the replacement module, complete the following steps:
 - a. cycle from Park to Neutral on the gear shifter twenty (20) times;
 - b. Test drive the vehicle and come to a complete stop ten (10) times;
 - c. Test the EPB on a graded road/hill to ensure that the EPB is fully functional.

Vehicle Applicability:

Model Year	Model
2021 - 2022	SV05 Class 5 Step Van

Warranty Information:

Model	Operation Code	Operation Description	Time (Hours)	Impacted Part #
SV05	23026	Replace Wilwood EPB Module	0.5	VN00-MB-M0039-A
SV05	26014	Update Software to latest released version	1	Not Applicable, Software Update

Parts Information:

Part Number	Part Name	Qty
VN00-MB-M0039-B	Wilwood EPB Module Revised with (-A) or (-R)	1

REPAIR PROCEDURE

1. Confirm the affected VIN. Prior to replacing the Wilwood EPB Module, verify that the vehicle is in 'Park' on the shifter and that the hand brake is applied.

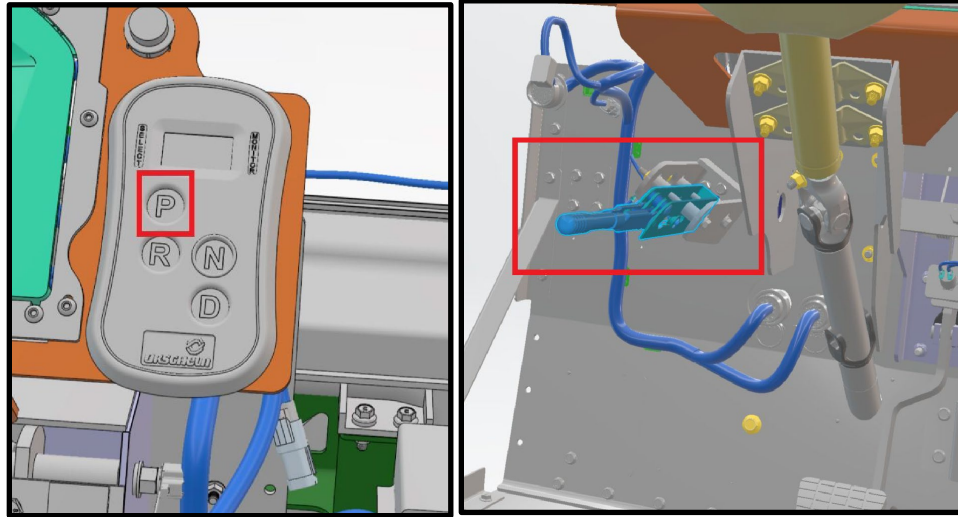


Image 1 – Verify that the vehicle is in Park and that the hand brake is applied

2. Under the passenger-side air vents, locate the current Wilwood EPB Module that will be replaced.

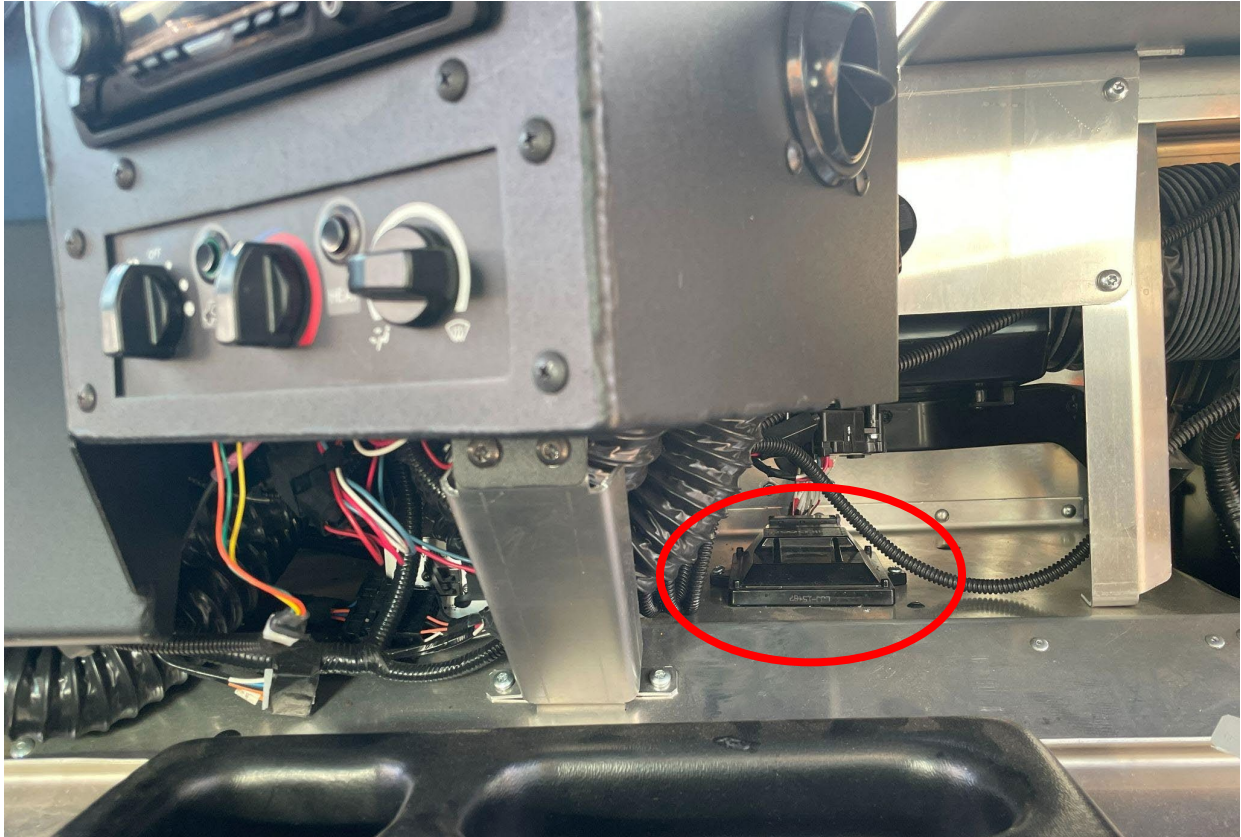


Image 2-1: Locate the old Wilwood EPB Module to be Replaced

3. Remove the current Wilwood EPB Module.

- On the current EPB Module, pull the purple security lock and unplug the module.
- Remove the two (2) self-tap screws with a 7mm socket wrench and set the screws aside (they will be re-used).
- Remove the current Wilwood EPB Module from the base of the underside of the passenger-side air vents.

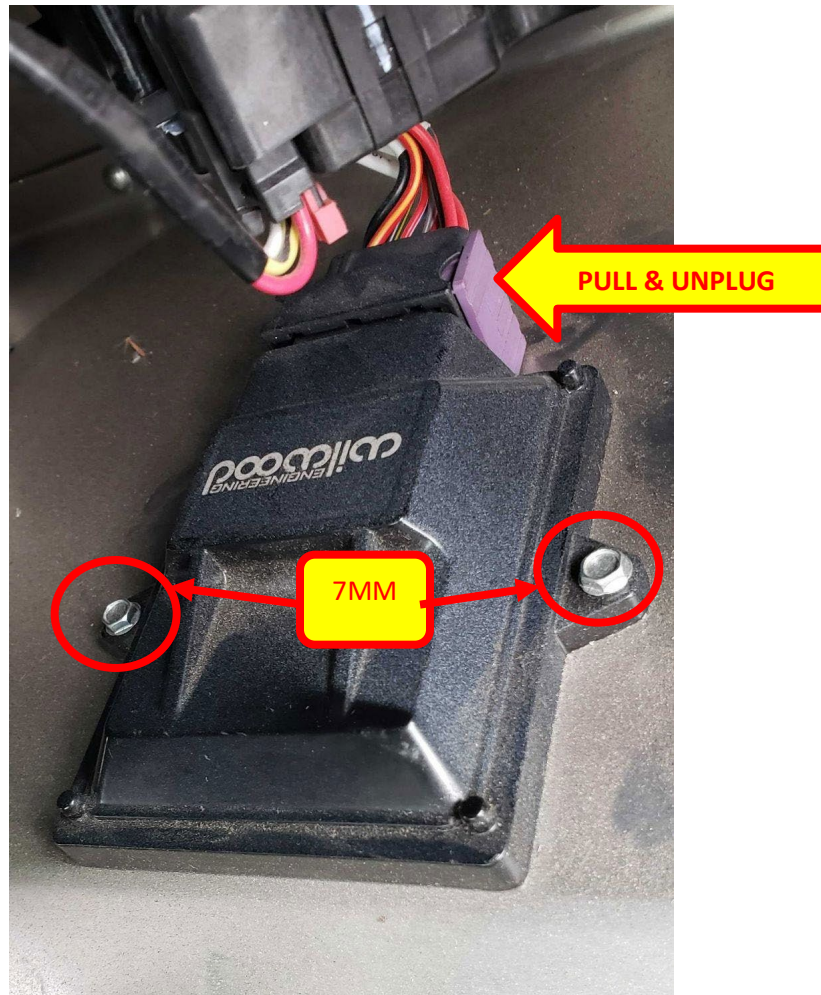


Image 3-1: Remove the Wilwood module

4. Locate the new Wilwood EPB Module that will be the replacement.

- It will be marked in one of three ways, as described below:
 - with the part number XXX-A-15487 or XXX-R-15487 stamped at the top of the module as shown in image 4-1 below;
 - with a green “A” as shown in Image 4-2 below; or
 - stamped with an “R” either before or after the SN as shown in Image 4-3 below.



Image 4-1: Replacement Module with etched “A” marking

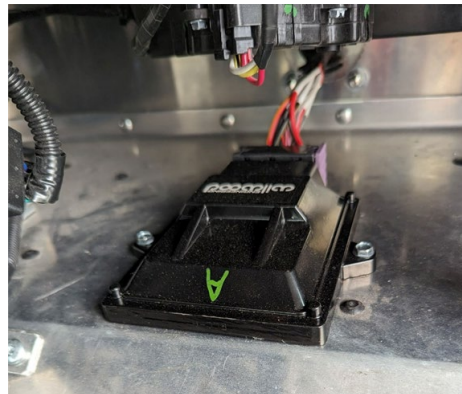


Image 4-2 Replacement Module with green paint “A” marking



Image 4-3 Replacement Module with stamped “R” marking

5. Install the new replacement Wilwood EPB Module.

- **Attach the replacement EPB Module to the base of the underside of the passenger-side air vents. Plug the module back in and re-insert the purple security lock.**
- **On the replacement EPB Module, insert the two (2) self-tap screws and hand tighten with a 7mm socket wrench.**
- **Verify that the new replacement Wilwood EPB Module is securely attached.**

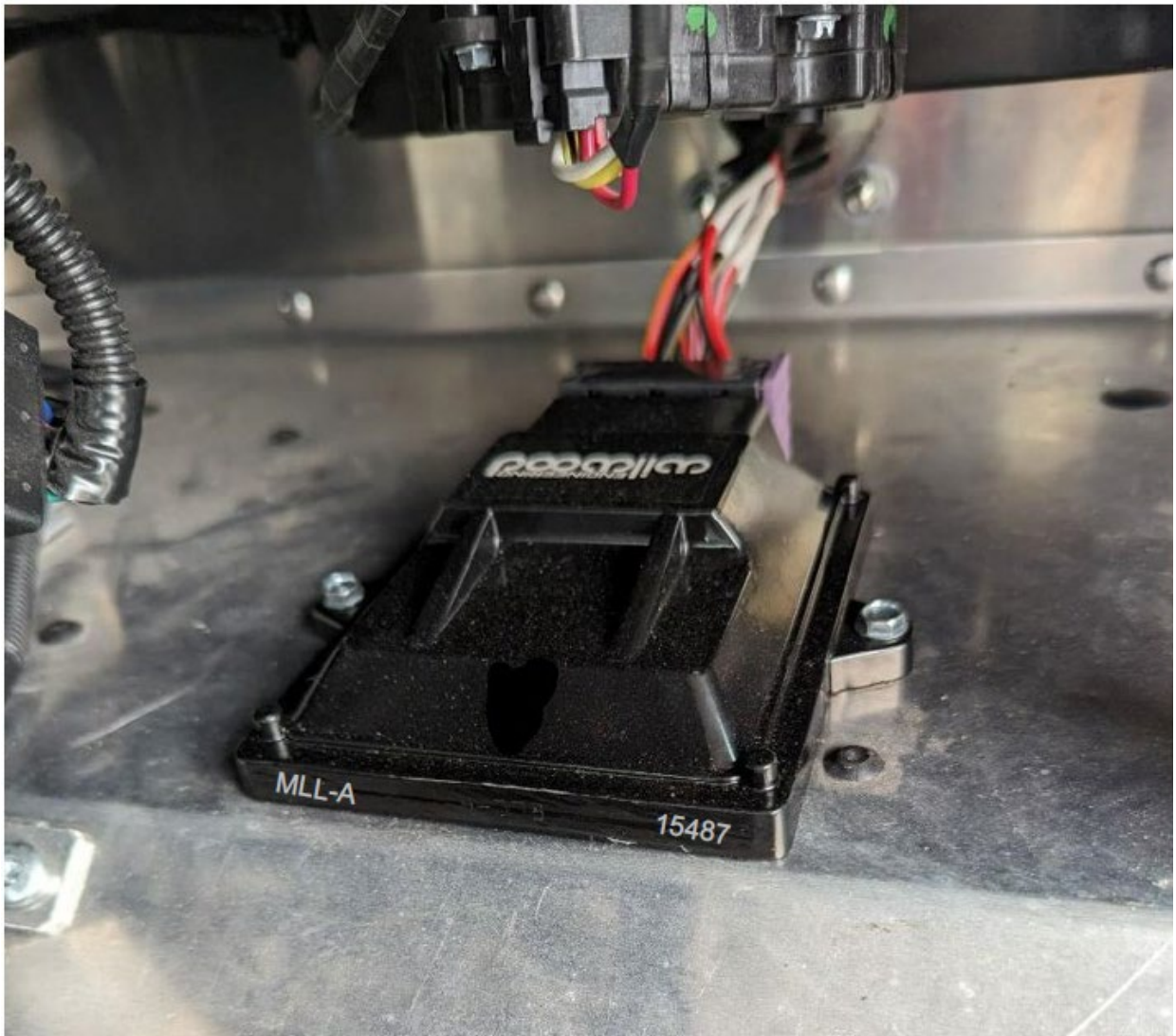


Image 5-1: Replacement Module intact

6. Complete the following steps to ensure that the EPB is fully functional:

- **Cycle from Park to Neutral on the gear shifter twenty (20) times;**
 - **Test drive the vehicle and come to a complete stop ten (10) times;**
 - **Test the EPB on a graded road/hill to ensure that the EPB is fully functional.**
- 7. After confirming that the EPB is fully functional, please refer to the service instructions found within TSB 002-24 Software Update, and complete the required software upgrade for 2021-2022 Xos Step Vans as described therein.**