



SERVICE BULLETIN

**GENERAL SERVICE GUIDELINES FOR
ABS/EBS DTC'S, LANE DEPARTURE
WARNING, STEERING ANGLE
SENSOR LEARNING AND ABS/EBS
MODULE PROGRAMMING**

**GROUP: 0-GENERAL
TECH TIP NO: 24-001
DATE: 1/10/2024**

SUBJECT VEHICLES: 2021- Current Model Year L and XL Series Trucks Equipped with Lane Departure and/or Stability Controls (ESC), assembled at the Mineral Wells, West Virginia, USA assembly plant.

Note: This technical service bulletin is provided as technical information and is not authorization for a warrantable repair.

OVERVIEW:

This TechTip was assembled with the most common service procedures to help technicians determine which diagnostic tool to use when performing general ABS/EBS diagnosis, Lane Departure Warning (LDW) diagnosis, Steering Zero Point Learning and ABS/EBS Module Programming.

1. ABS Module Diagnosis – **Wabco Toolbox**
2. Steering Zero Point Learning – **DX3**
3. Lane Departure Warning Learning (LDW) – **Wabco Toolbox**
4. ABS/EBS Module Reprogramming – **DX3**

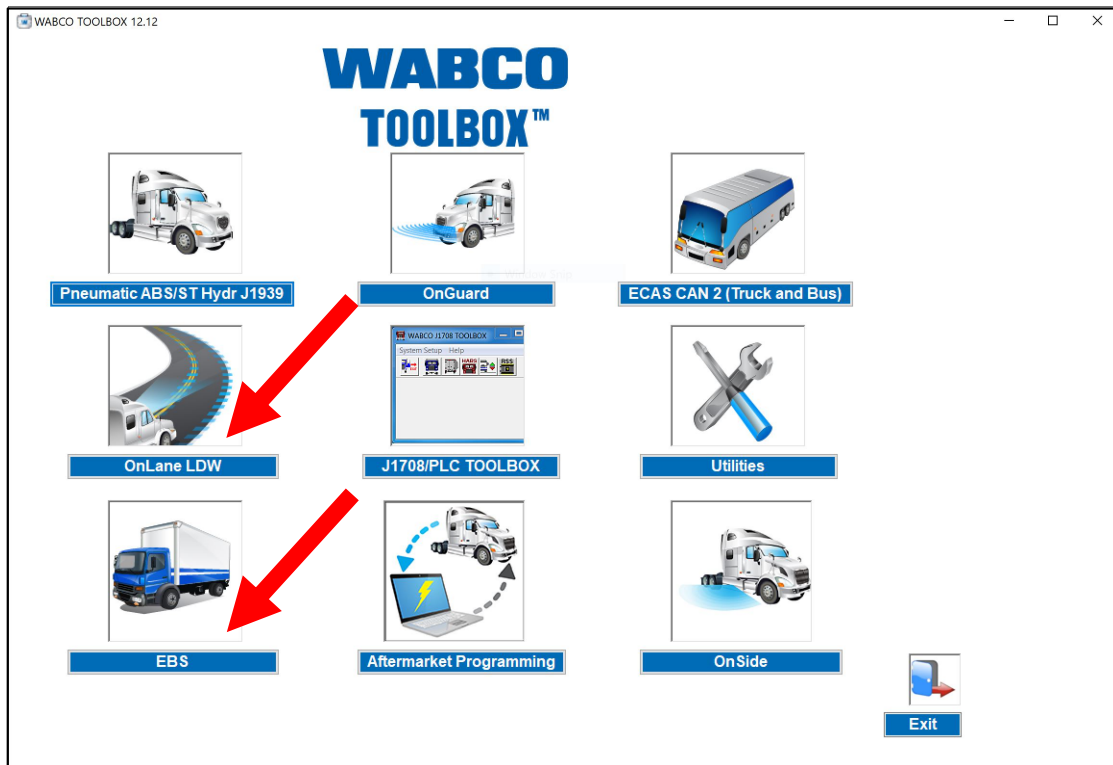


General ABS/EBS/LDW Brake Diagnosis Use Wabco Toolbox

1. Connect to the ABS/EBS or Onlane LDW module using Wabco Toolbox for diagnosis and reading Diagnostic Trouble Codes “DTC’s”

IMPORTANT

It is recommended that the latest version of Wabco Toolbox is always used. If parameters or data is missing, update Wabco Toolbox as needed.

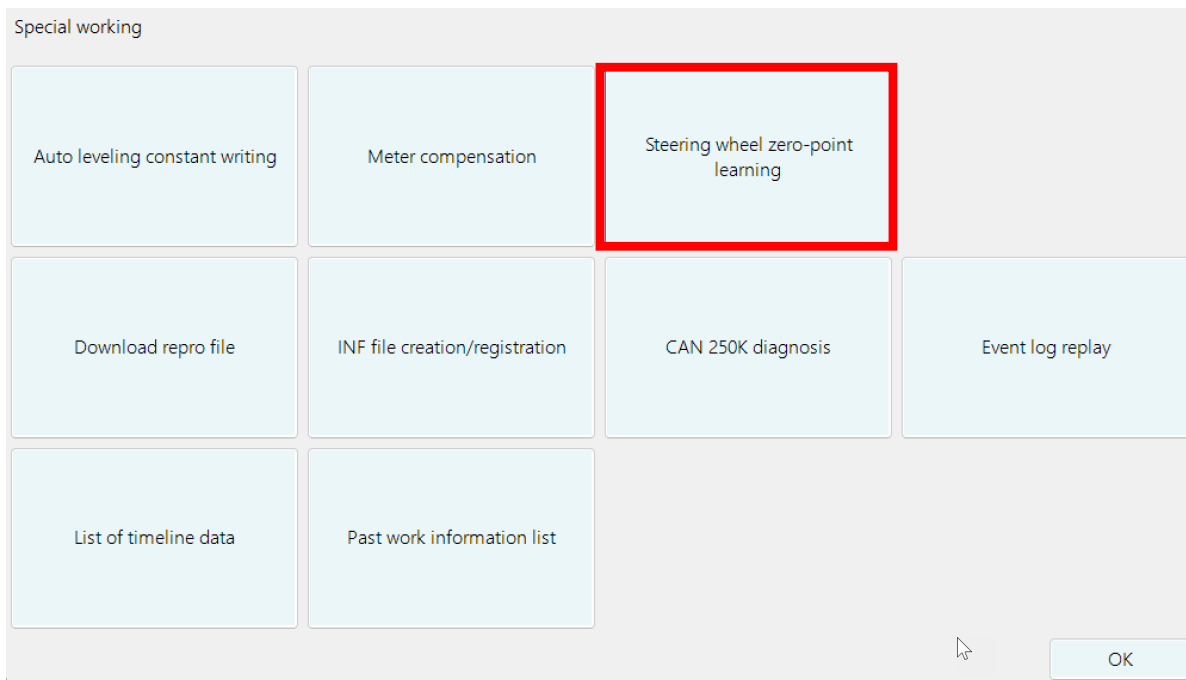


Steering Wheel Zero-Point Learning Use DX3

1. Using DX3, connect to the truck and read out all modules.
2. From the DX3 Home page, select **Special Working**



3. Select **Steering Wheel Zero-Point Learning** and follow DX3 instructions.



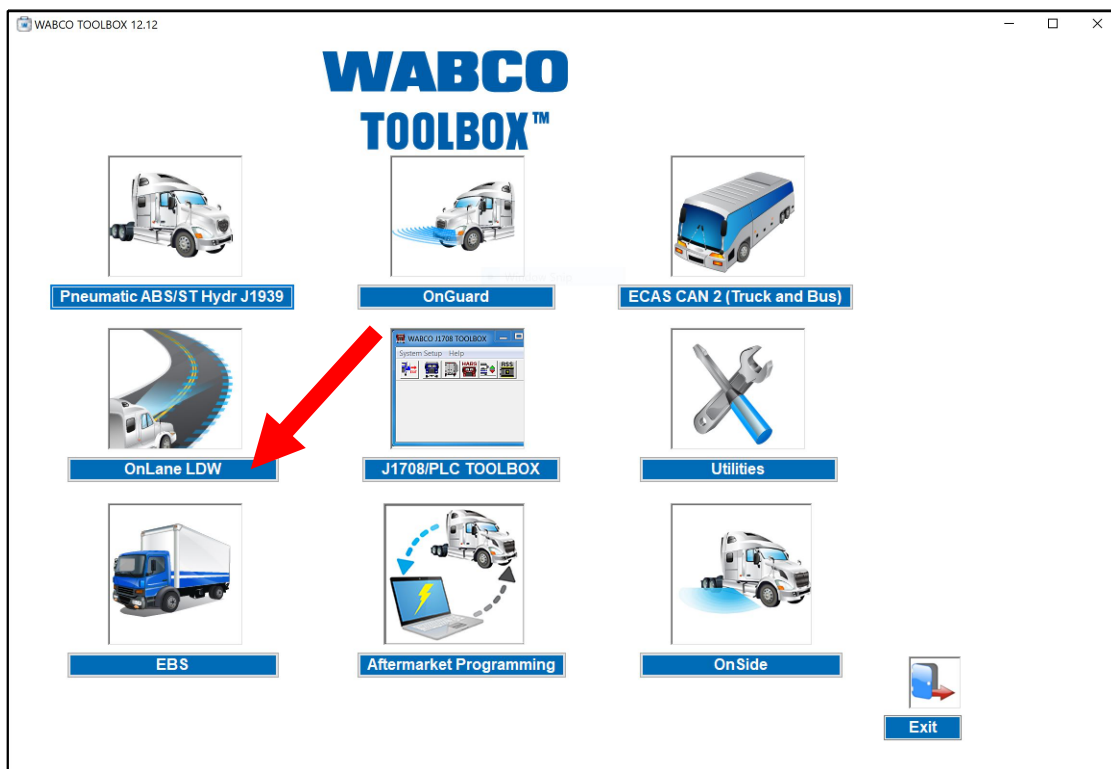
4. Once learning has completed, confirm no DTC's returned. It will be necessary to use Wabco Toolbox to check and clear brake related DTC's.

Lane Departure Warning (LDW) Relearn Use Wabco Toolbox

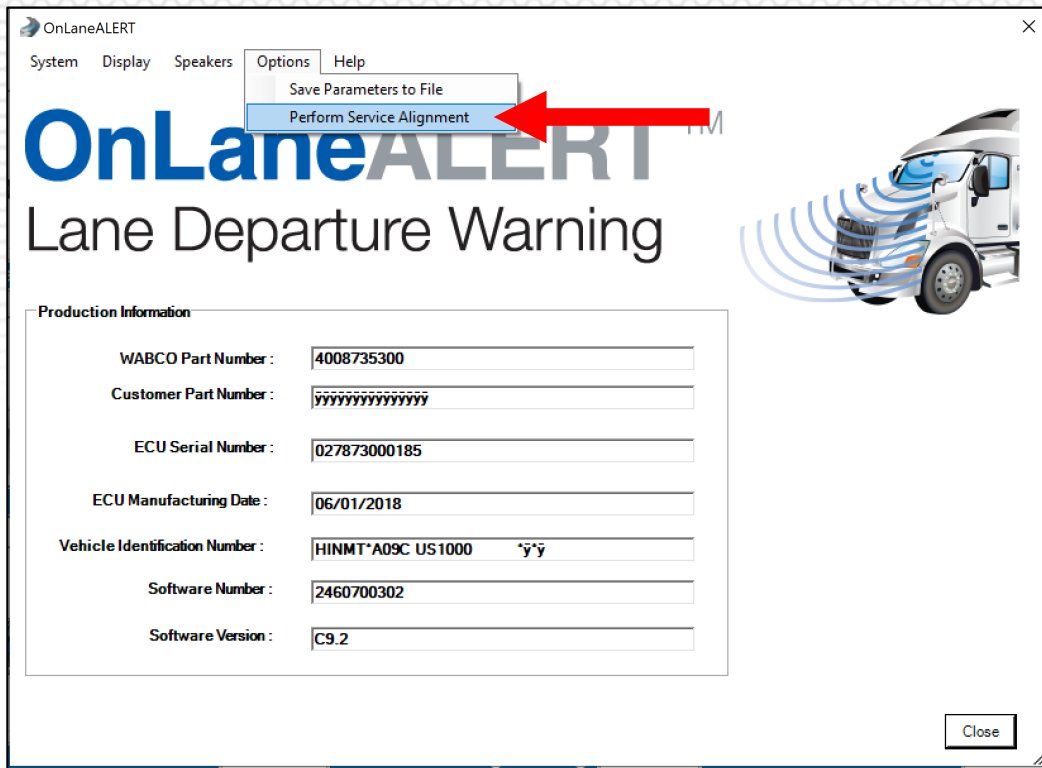
1. Using Wabco TOOLBOX™ select OnLane Lane Departure Warning (LDW).

IMPORTANT

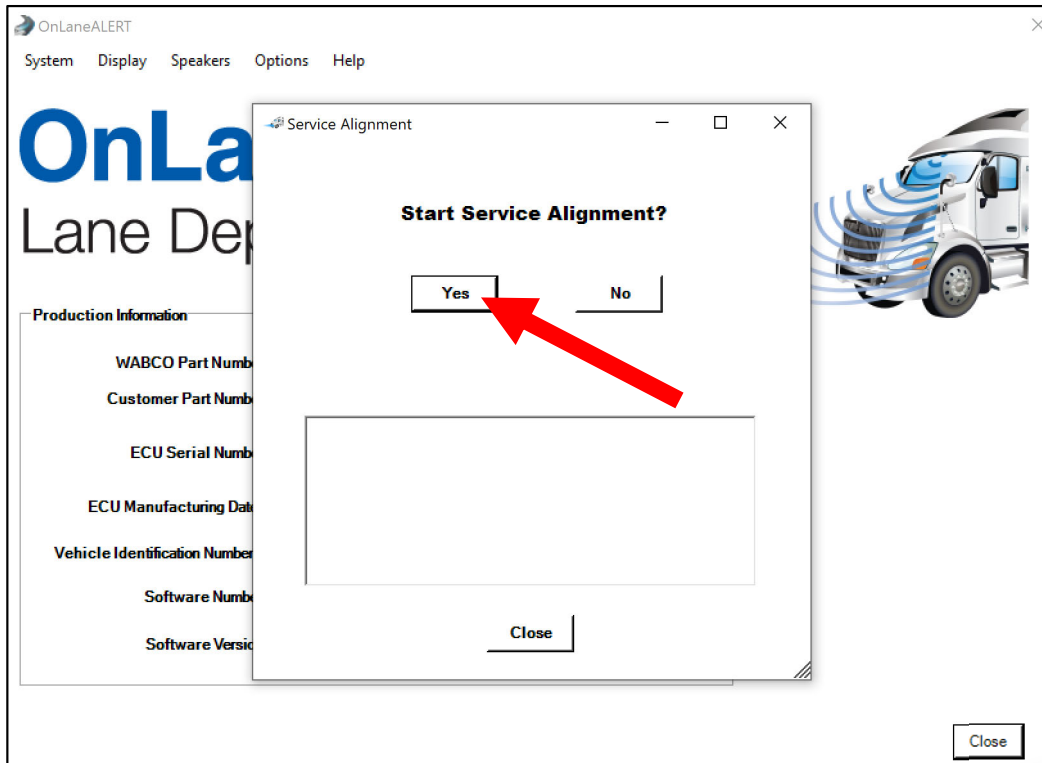
Make sure the latest version of Toolbox software is being used.



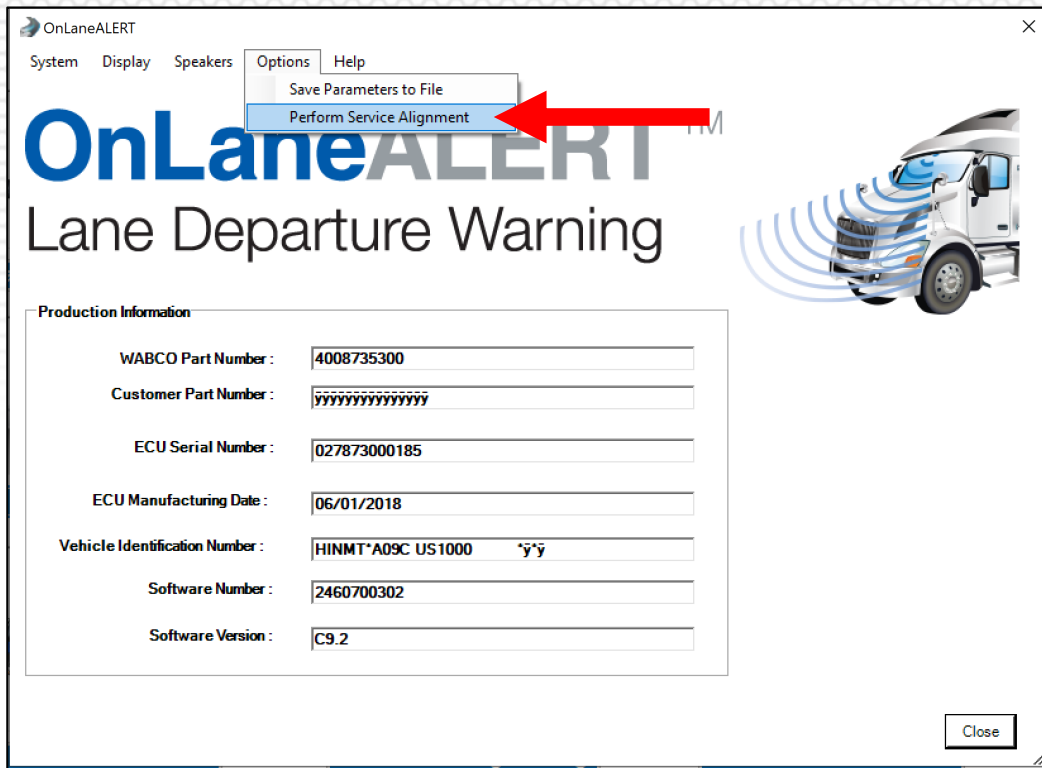
2. Select Perform Service Alignment in the Options menu.



3. Select Yes.



2. Select Perform Service Alignment in the Options menu.

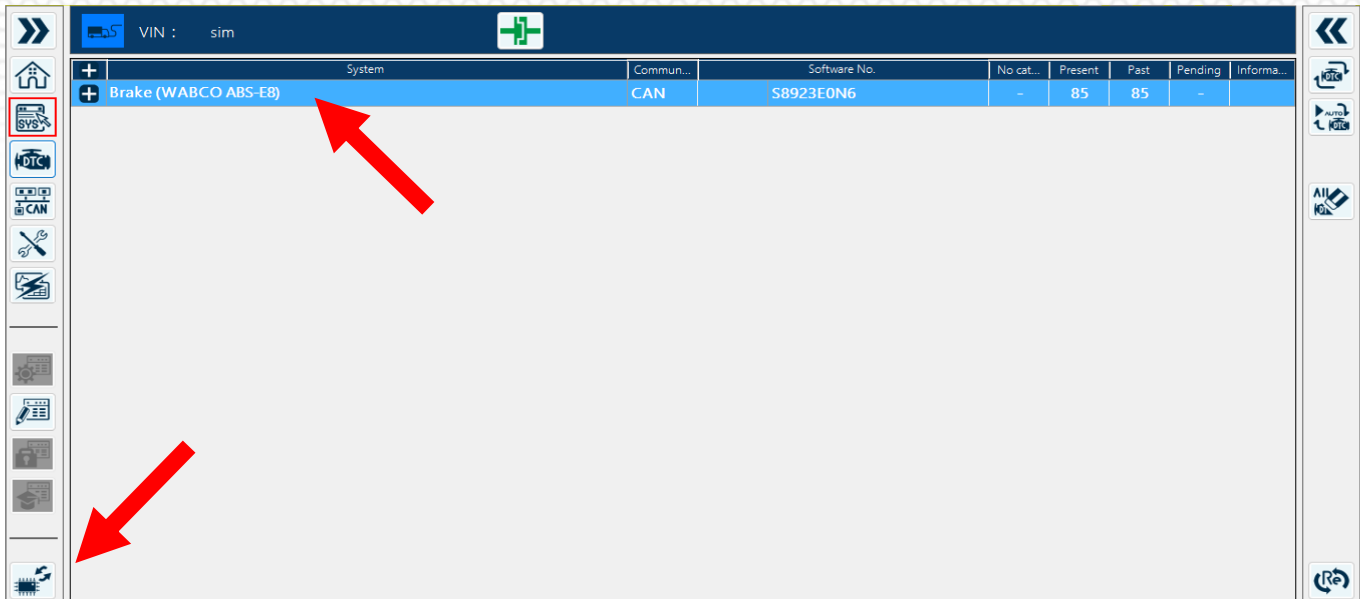


3. Select Yes.

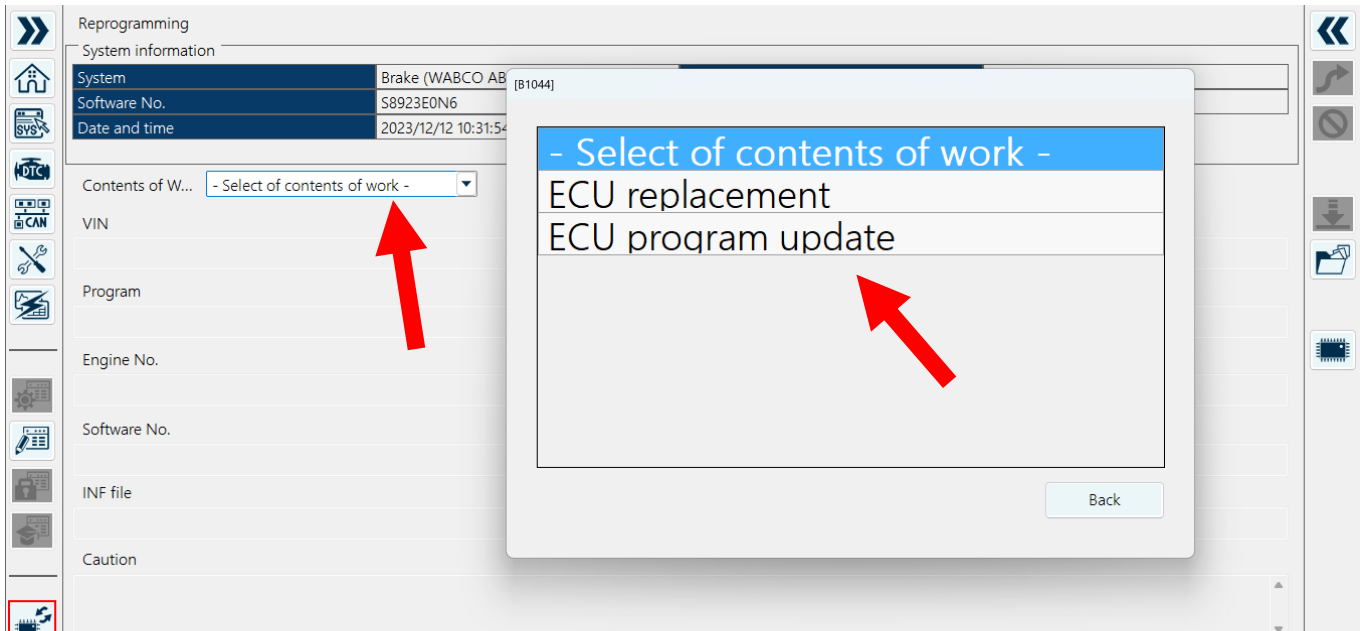


Wabco ABS/EBS Module Programming Use DX3

1. Using DX3, select the Brake module, then click Reprogramming in the lower left of DX3



2. Select Contents of Work



3. Select Download file

The screenshot shows the 'Reprogramming' software interface. A dialog box titled '[R1001]' is open, displaying the text 'Download repro file' and 'Is being downloaded. Please wait for a while.' with a 'Cancel' button. A red arrow points to the download icon in the right-hand toolbar. The background interface shows system information for a 'Brake (WABCO ABS-E8)' system.

System information			
System	Brake (WABCO ABS-E8)	System name	ABS-E8
Software No.	S8923E0N6	PIN	USA831010003
Date and time	2023/12/12 10:32:51		

4. Verify software is correct then click the Next arrow in the upper right

The screenshot shows the 'Reprogramming' software interface after the download process. A red arrow points to the 'Next' arrow icon in the upper right toolbar. Another red arrow points to the 'Software No.' field, which contains the value 'S8923E0N6'. The background interface shows the same system information as in the previous screenshot.

System information			
System	Brake (WABCO ABS-E8)	System name	ABS-E8
Software No.	S8923E0N6	PIN	USA831010003
Date and time	2023/12/12 10:32:51		

5. Verify programming is No Problem, and click Write to ECU, follow DX3 screens to complete programming

Reprogramming
System information

System	Brake (WABCO ABS-E8)	System name	ABS-E8
Software No.	S8923E0N6	PIN	USA831010003
Date and time	2023/12/12 10:34:04		

Contents o... ECU replacement

	rpr file set value	Set value from ECU	Judgment
VIN	sim	sim	■
Engine No.			■
Software No.	S8923E0N6	S8923E0N6	■
Battery check	PC battery	Vehicle battery -	■
Verify result	No problem. Is reprogrammable.		■

Write to ECU

