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Coding Information

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Title: eCE Bus and eMV Calibration Release Information

Applies To: eCE Bus and eMV

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

02/29/2024 - Initial Article Release - V10000
03/12/24 eMV V11000 Release
07/29/24 V10000 RC4 Release

DESCRIPTION

eCE Bus and eMV Truck calibration release information.

Current EV Bus VCU Calibrations.

eCE Bus									Production Only w/V2G	Service/Production w/PP w/V2G	Service/Product w/ 20kW SDS
		V7201A 12/16/21	V7201B 07/11/22	V8000A 8/18/22	V8000B 11/16/22	V9000A 02/22/23	V9000 RC1 5/15/23	V9000 RC2 02/22/23	V10000 RC3 12/16/24	V10000 RC3 2/28/24	V10000 RC4 7/22/24
H03/ H04 eCE Bus (V2G + non V2G)	Long Wheel Base	EBLVGA	EBLVGB	EBLVHA	EBLVHB	EBLVJA	EBLVJB	EBLVJC	EBLVKA	EBLVKC	EBLVKD
H03/ H04 eCE Bus (V2G + non V2G)	Short Wheel Base	EBSVGA	EBSVGB	EBSVHA	EBSVHB	EBSVJA	EBSVJB	EBSVJC	EBSVKA	EBSVKC	EBSVKD

V10000 RC3 Released in production and in SDS 2/28/24.

Charging Improvements:

- Eliminated charger plug in time dependency .
 - 90 second wait time after key off before plugging in the charger has been eliminated.
 - Improve charging performance for scheduled and sequential charging.
- Automatic charge gun / inlet unlocks after charge completes.
 - Reduces the user impulse or need to use the emergency release cable to release the charge gun.
 - Improves ease-of-use when the vehicle is fully charged and in sleep mode.
- Multiple charge sessions without cycling/ removing the charge gun.
 - Restart a charging session without removing and re-inserting the charge gun.
 - Improve charging performance for scheduled and sequential charging.
- Reduced charging idle time.
 - Reduces the time the vehicle will enter sleep mode after a charge session has stopped.
 - Improved energy efficiency
- Updated charge port LED indicators.
 - See chart below.
 - New charge port door decal coming soon.

Other Improvements:

- DTC 523585 - 9 Battery Management System A-CAN Communication Abnormal Update Rate
 - Reduce false faults.
 - Improved communication debounce time.
- V2G (Vehicle to Grid) Enabled
 - This calibration also supports V2G on vehicles equipped with V2G components and hardware.

Parameter Changes:

- New Parameter D025 000 - Vehicle to Grid
 - Default - Disable

- Only enabled on vehicles with V2G hardware
- Dealer / Fleet - Read Only

V10000 RC4 Released in production and in SDS 7/22/24

- Electric Heater - 10 kW and supports 20 kW
 - New - 20 kW heater with strategy and component robustness improvements.
 - Current - 10 kW heater strategy and component robustness improvements.

Current eMV VCU Calibrations

eMV							Production w/Modine Comp	SDS 3/11/24 Production/Service ePTO	
	V7201A 12/16/21	V7201B 07/11/22	V8000B 11/16/22	V9000A 02/22/23	V9000B 5/15/23	V9000C 02/22/23	V9000 RC3 1/30/24	V11000 RC5	
H07 eMV Truck Emerson A/C Cmpr	ECLVGA	ECLVGB	ECLVHA	ECLVJA	ECLVJB	ECLVJC		ECLVLB	
H07 eMV Truck Modine A/C Cmpr							EDLVJA	EDLVLB	

V11000 Released in production and in SDS 3/11/24

Improvements:

- DTC 523585 - 9 Battery Management System A-CAN Communication Abnormal Update Rate
 - Reduce false faults.
 - Improved communication debounce time.

New Features:

- ePTO
 - Supports ePTO with specific ePTO feature and hardware.
 - 87 new ePTO related fault codes
 - 34 new ePTO programmable parameters. [Parameter List Here](#)

Identifying and updating VCU Calibration using Service Diagnostic Solutions (SDS)

1. Connect with SDS with Key On
2. Right Vehicle Panel - the current VCU calibration ID can be viewed by expanding the VCU module.
3. If an updated calibration is available the Update Module Software Button at the top right panel will be available.
4. Click the Update Module Software button. Figure 1 #1
5. Select the Calibration update: Figure 1 #2
6. Click Update. Figure 1 #3
7. Follow all on-screen instructions.
8. After updating the calibration, clear all fault codes and cycle the ignition key.

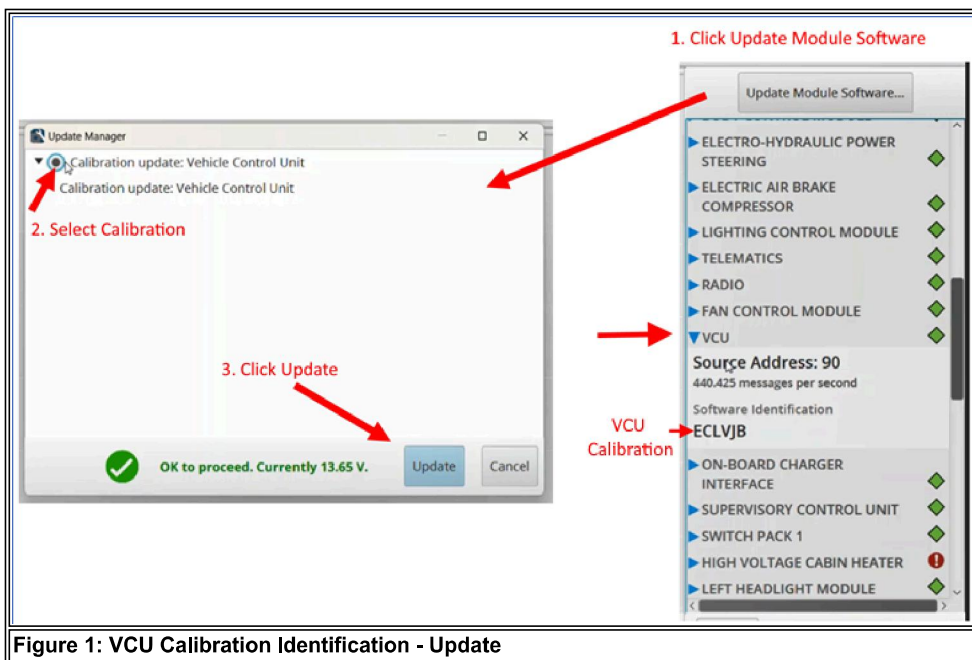


Figure 1: VCU Calibration Identification - Update

New V10000 Charge Port LED Label

LED Color	State of Charge	State (not for label)
BLUE	Charging plug is successfully connected and unlocked OR charging plug is ready to be removed	Initiation
AMBER-flashing	Vehicle not ready to charge. Parking brake must be set and driver mode selector must be in Neutral (N).	Warning
AMBER	Charging plug is connected but charger is not active	Plugged
WHITE	Charging communication in progress	Handshake
GREEN-pulsing	Low power charge mode is active to sustain High-Voltage (HV) auxiliaries (if equipped)	Low Power Mode
GREEN-flashing	Charging in progress	Charging
GREEN	Charging complete	Charging Complete
PURPLE-flashing	Discharging in progress (if equipped)	Discharging
PURPLE	Discharge complete (if equipped)	Discharge Complete
RED	A vehicle or charger error has been detected	Error

Figure 2: Charge Port LED Label

WARRANTY INFORMATION

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

OTHER RESOURCES

[Master Service Information Site](#)

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