

## SERVICE ACTION

Reference number:	SA-03-1481	Issued: 13 May, 2021
Subject:	Process to Update the V8 ECM Software	
Model(s):	DB11 V8 and Vantage	
VIN Range:	Refer to the separately published list of affected Vehicle Identification Numbers (VINs)	
Applicable to:	USA & Canada	
Distribute to:	After Sales Manager Executive Manager Service Manager Sales Manager	Warranty Staff Technician(s) Parts Staff

### Reason for this Service Action

This service action gives the process to check the ECM\_V8 calibration ID, and if necessary update the Engine Control Module (ECM) software for V8 engines.

The workshop procedure has the parts that follow:

- Part A - Check the ECM\_V8 Calibration ID
- Part B - Update the ECM\_V8 Software

### Workshop Procedure

**CAUTIONS:** CONNECT THE AMDS 2.0 EQUIPMENT TO AN ELECTRICAL SUPPLY WHEN YOU DO THE PROCEDURE THAT FOLLOWS. IF THE LAPTOP BATTERY VOLTAGE DECREASES DURING THE SOFTWARE UPDATE, THE UPDATE CAN FAIL AND CAN CAUSE DAMAGE TO THE MODULE.

**YOU MUST CONNECT A BATTERY CHARGER TO THE VEHICLE BEFORE YOU DO DIAGNOSTIC PROCEDURES. IF THE VEHICLE BATTERY VOLTAGE DECREASES DURING THE PROCEDURE, THE SOFTWARE UPDATE CAN FAIL AND CAN CAUSE DAMAGE TO THE MODULE.**

**Notes:** *Make sure that the vehicle has a minimum of half a tank of fuel before you do this procedure.*

*Make sure that the AMDS 2.0 software has updated to the latest version. The AMDS 2.0 software will need a good Internet connection (minimum broadband speed of 2 Mbit/second) to make sure that the software is updated correctly.*

*A high output battery charger (minimum of 80 A) is necessary to meet the demand of the radiator cooling fan. The battery charger must also be compatible with Absorbent Glass Mat (AGM) type batteries.*

**Part A - Check the ECM\_V8 Calibration ID**

1. Insert the vehicle key in the Electronic Ignition Switch (EIS).
2. Set the ignition to on, but do not start the engine.
3. Connect the Vehicle Communication Interface (VCI) to the vehicle by using the Diagnostic Link Cable (DLC).
4. Start the AMDS 2.0 software and, if necessary, update to the latest version.
5. Select "DTC/OBD" then select "Read DTC/Part Nos" (refer to Figure 1).

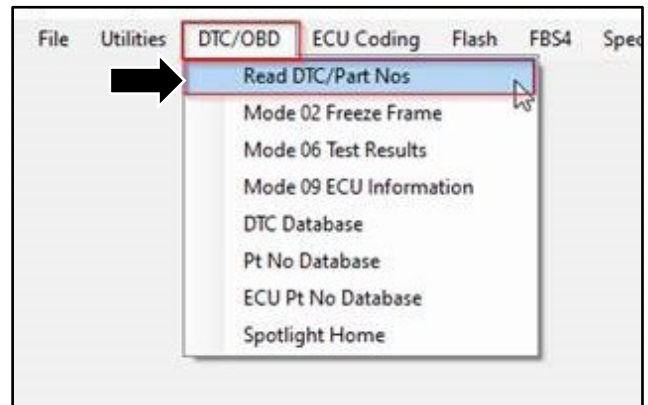


Figure 1

6. Select "ECM\_V8" then click "OK" (refer to Figure 2).

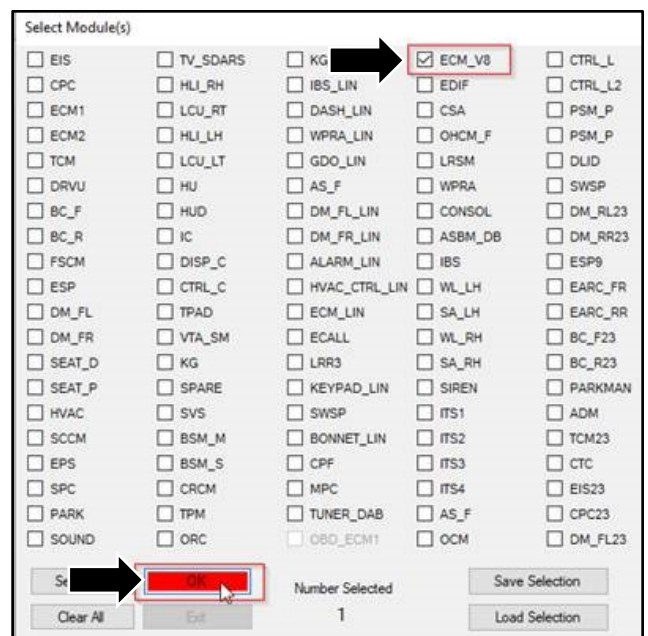


Figure 2

7. Select "Pt. Numbers" (refer to Figure 3).

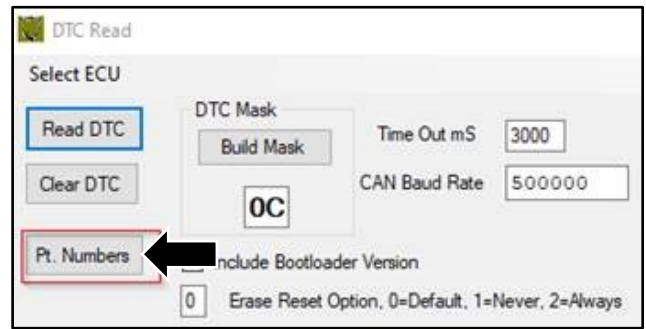


Figure 3

8. The calibration ID will show at the bottom of the read for the ECM\_V8 (refer to Figure 4).

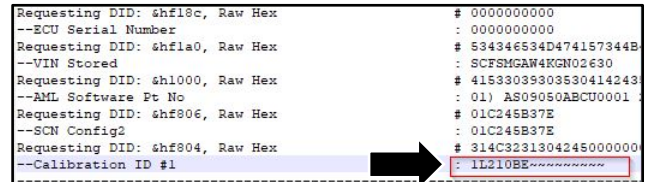


Figure 4

9. If the calibration ID's are as follows the workshop procedure is complete. Go to step 11.
  - Vantage: 1L210BE or later
  - DB11 V8: 2C210BE or later
10. If the calibration ID's are different to step 9 do Part B - Update the ECM\_V8 Software.
11. Set the ignition to off.
12. Disconnect the VCI from the vehicle and shut down AMDS 2.0.

**Part B - Update the ECM\_V8 Software**

- 13. Before you update the ECM in AMDS 2.0 you must do a read and save of the injector coding.
- 14. In AMDS 2.0 click "Special Apps" (refer to Figure 5).



Figure 5

- 15. Select "ECM\_V8" then "OK" (refer to Figure 6).

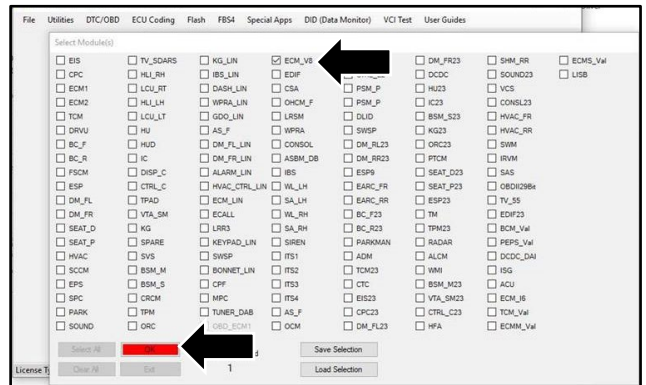


Figure 6

- 16. Select "Read from EMS" (refer to Figure 7).

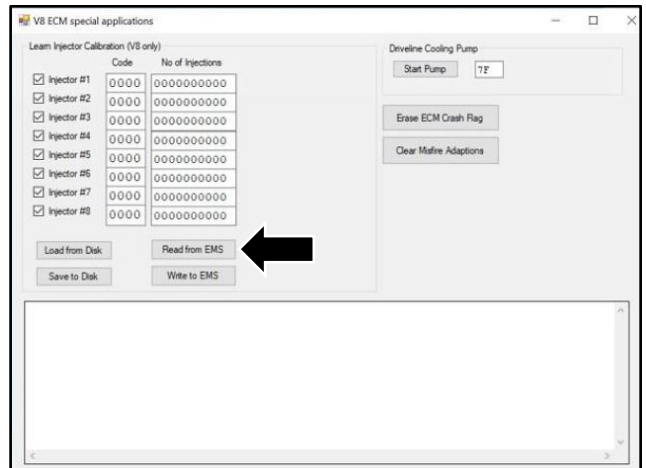


Figure 7

17. Select "Save to Disk" to store the injector coding (refer to Figure 8).

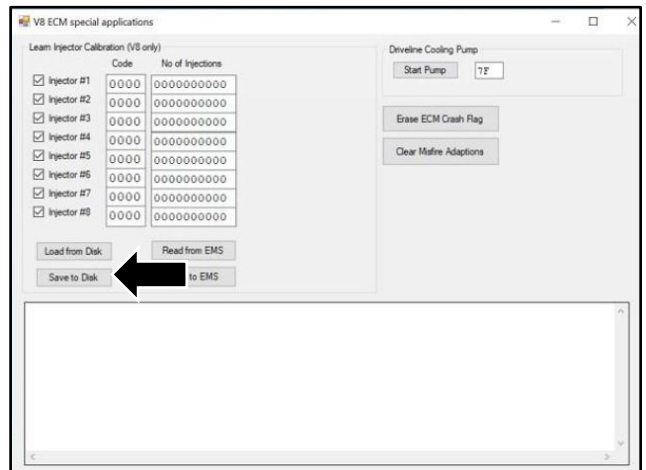


Figure 8

18. Select "Flash" (refer to Figure 9).



Figure 9

19. Select "ECM\_V8" and click "OK" (refer to Figure 10).

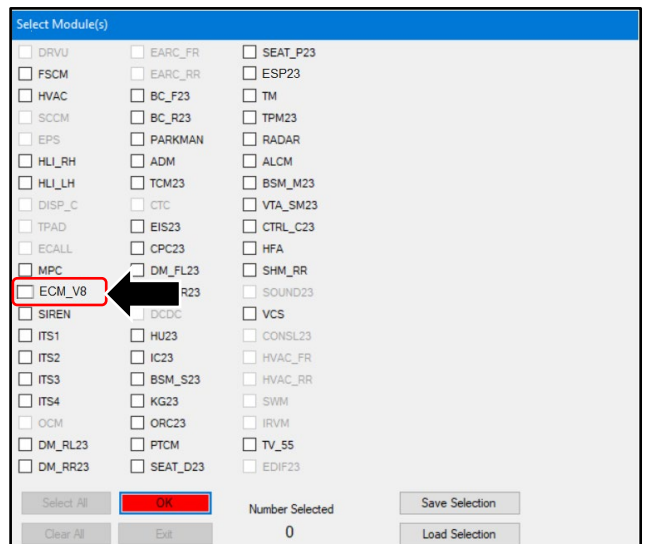


Figure 10

20. Select "Flash Download" (refer to Figure 11).

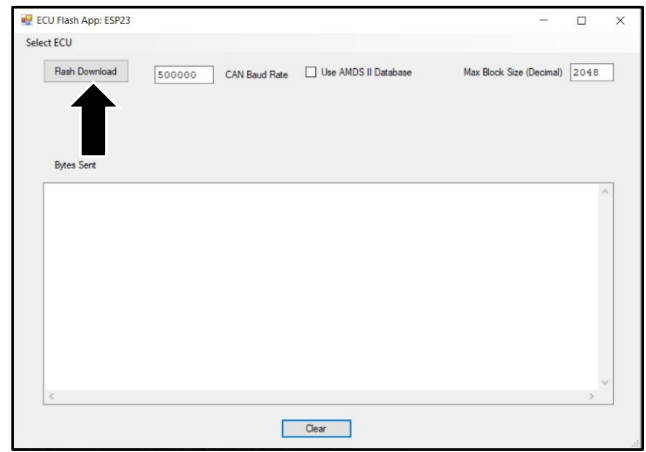


Figure 11

21. When the software update is complete, close the "Flash" window.

**Note: The update is complete when "Post-programming sequence completed OK. VCI Disconnected. DRVU reset OK" is shown.**

22. After you have flashed the ECM do a check to make sure the injector codes are shown. Select "Special Apps" (refer to Figure 12).



Figure 12

23. Select "ECM\_V8" then "OK" (refer to Figure 13).

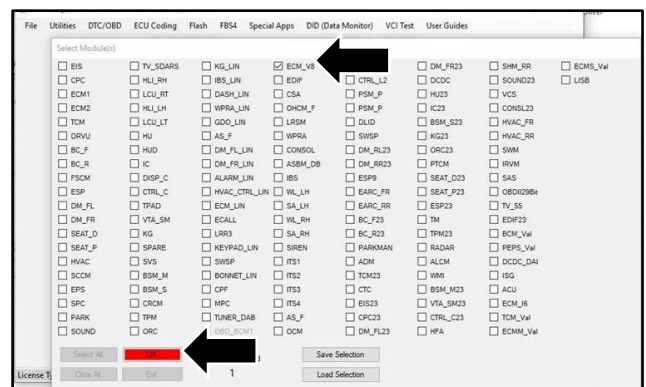


Figure 13

24. If the injector codes from step 16 are shown, select "Write to EMS" (refer to Figure 14).

**Note: If the injector codes are not shown or show: 0000 select "Load from Disk" to load the injector codes from step 17 and then select "Write to EMS".**

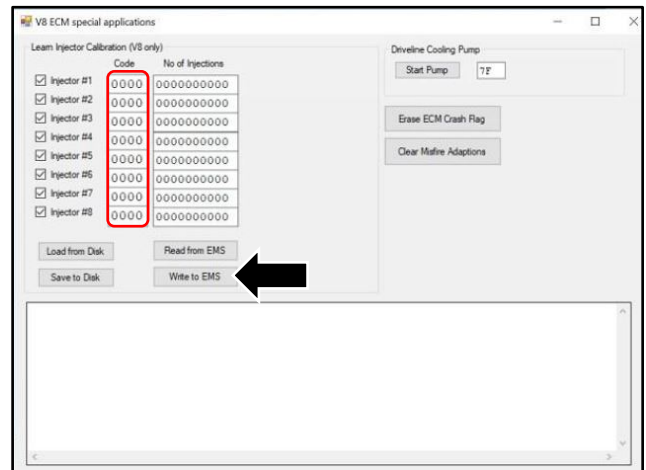


Figure 14

25. Select "DTC/OBD" (refer to Figure 15).

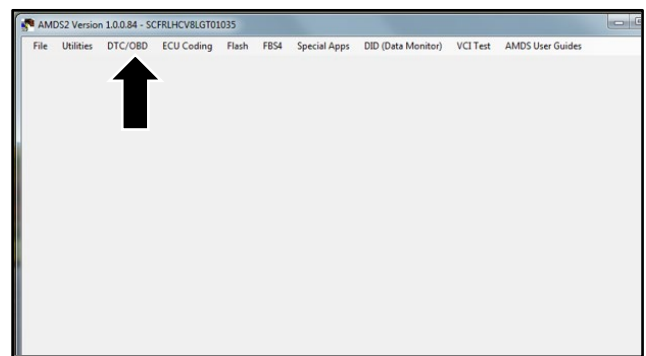


Figure 15

26. Select "Read DTC" (refer to Figure 16).

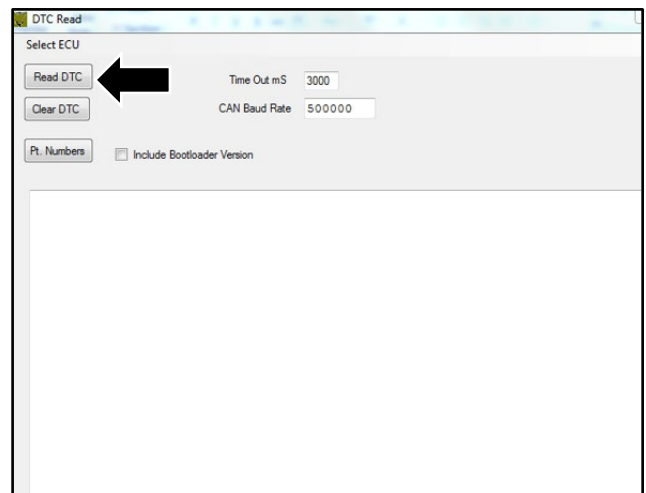


Figure 16

27. Use AMDS 2.0 to do a check and erase DTCs.
28. Set the ignition to off.
29. Wait a minimum of 20 minutes to let the ECM\_V8 fully shut down.
30. Start and let the engine run for 20 seconds.
31. Do the applicable procedure to learn engine misfire corrections, refer to: SB-03-1141.

**Warranty Data****Procedure and Labour Time****Tier A**

Description	Labour Time
Check the ECM_V8 Calibration ID	0.05 hours

**Tier B**

Description	Labour Time
Update the ECM_V8 Software	0.3 hours
Procedure to Learn Engine Misfire Corrections	0.2 hours

If you have any questions related to this document, please refer to the 'Contact Us' link on this webpage, or contact your local Dealer or After Sales Manager.

The English version of this document is written in Simplified Technical English to ASD-STE100™.