

SERVICE ACTION

Reference number:	SA-41-1510	Issued: 05 July, 2021
Subject:	Flash the Air Damping Module (ADM)	
Model(s):	DBX	
VIN Range:	Refer to the separately published list of affected Vehicle Identification Numbers (VINs)	
Applicable to:	All Dealers	
Distribute to:	After Sales Manager Executive Manager Service Manager Sales Manager	Warranty Staff Technician(s) Parts Staff

Reason for this Service Action

Aston Martin has found that when Access mode is used on DBX, it is possible that the suspension can stay below the lowest ride height setting at one or more corners. This can occur even after Access mode is disabled or the vehicle is driven again.

Do the workshop procedure that follows to update the ADM module to correct this problem.

Note: When the ADM module has been flashed, "Access" mode will operate at -30mm below the ride height of "GT" mode, not -50mm.

CAUTION: BEFORE YOU FLASH THE ADM MODULE MAKE SURE THE VEHICLE IS NOT ON A RAMP AND REMOVE THE VEHICLE FROM TRANSPORT MODE IN AMDS. IF YOU DO NOT, IT IS POSSIBLE THE MODULE WILL NOT BE CALIBRATED CORRECTLY.

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 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.

1. Set the ignition to on but do not start the engine.
2. Connect the Vehicle Communication Interface (VCI) to the vehicle by using the Diagnostic Link Cable (DLC).
3. Start the AMDS 2.0 software and, if necessary, update to the latest version.
4. Select "Flash" (refer to Figure 1).



Figure 1

5. Select the "ADM" module then click "OK" (refer to Figure 2).

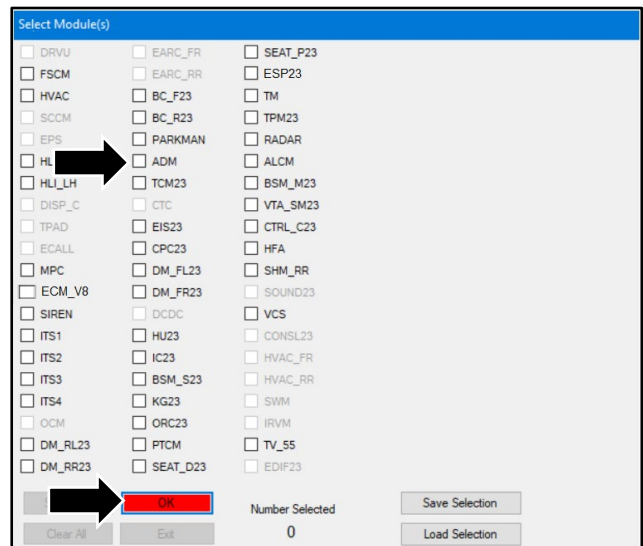


Figure 2

6. Select "Flash Download" (refer to Figure 3).

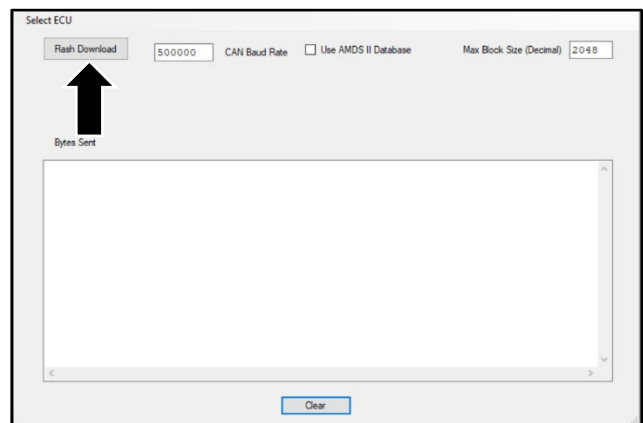


Figure 3

7. When the software update is complete, close the "Flash" window.
Ride height sensor calibration is NOT necessary after the flash.

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

8. Clear any Diagnostic Trouble Codes (DTCs) stored for the “ADM” module.
9. Set the ignition to off.
10. Wait a minimum of 20 minutes to let the modules fully shut down.
11. Set the ignition to on but do not start the engine.
12. In the “DTC Read” window select the ADM module then select “Pt. Numbers”.
Do a check and make sure the software patch level is: **21-24-00** (refer to Figure 4).

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Reading Part Numbers and IDs from: Adaptive Damping Module
Filter set OK for ECUs ADM
Requesting DID: &hf100, Raw Hex      : 003D0101
--Diagnostic Variant                  : 3D
--Diagnostic Version                  : 01
--Diagnostic Session                  : 1, Default
Requesting DID: &hf111, Raw Hex      : 38303037343430314141
--Mercedes Car Group Hardware        : 01) 80074401AA
Requesting DID: &hf121, Raw Hex      : 3830303734343036414338303037343430334143
--Mercedes Car Group Software        : 01) 80074406AC
Requesting DID: &hf150, Raw Hex      : 02) 80074403AC
--Hardware Year/Week/Patch Level     : 133001
Requesting DID: &hf151, Raw Hex      : 01) Year=19, Week=48, Patch Level=1
--Software Year/Week/Patch Level     : 151800151800
Requesting DID: &hf154, Raw Hex      : 01) Year=21, Week=24, Patch Level=0
--Hardware Supplier                   : 02) Year=21, Week=24, Patch Level=0
Requesting DID: &hf155, Raw Hex      : # 00DC
--Software Supplier                   : 01) Vibracoustic
Requesting DID: &hf15b, Raw Hex      : # 00DC00DC
--Fingerprint Software Sig/CRC       : 02) Vibracoustic
Requesting DID: &hf15b, Raw Hex      : # 01000B1506081234567801000B15060812345678
--Fingerprint Hardware HW/SW Match test : 01) Software Valid
--Fingerprint Hardware SW/SW Match test : 01) Hardware/Software Match
--Fingerprint Memory State test       : 01) Software/Software Match
--Fingerprint Last programmed By      : 01) Memory Programmed
--Fingerprint Programming Yr/Mo/Day   : 01) Aston Martin
--Fingerprint Programming Tool Serial No. : 01) 21/6/11
--Fingerprint Software Sig/CRC       : 01) 12345678
--Fingerprint Hardware HW/SW Match test : 02) Software Valid
--Fingerprint Hardware SW/SW Match test : 02) Hardware/Software Match
--Fingerprint Memory State test       : 02) Software/Software Match
--Fingerprint Last programmed By      : 02) Memory Programmed
--Fingerprint Programming Yr/Mo/Day   : 02) Aston Martin
--Fingerprint Programming Tool Serial No. : 02) 21/6/11
    
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Figure 4

13. Make sure there are no DTCs stored for the “ADM” module.
14. Make sure all the suspension modes function correctly.

Note: If the suspension modes do not function correctly, click the “Set Mode” button with “Normal Mode” selected in AMDS – Special Apps - ADM (refer to Figure 5).

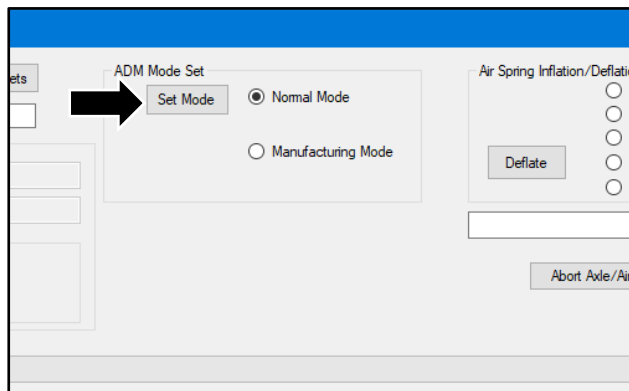


Figure 5

15. Disconnect the VCI from the vehicle and shut down AMDS 2.0.
16. Set the ignition to off.

Warranty Data

Procedure and Labour Time

Description	Labour Time
Flash the ADM module	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™.