

SERVICE CAMPAIGN BULLETIN

CAMPAIGN REF: 01P

TITLE : Vehicle software update to platform 10.2

DOCUMENT # : 11 M 041

AFFECTED VEHICLES : 12C Coupe

SITUATION : Quality Engineering at McLaren Automotive have released a new software platform for the 12C.

The most noticeable customer benefits of this software are:

- Increase in engine power to 625PS
- Programmable Intake Sound Generator (ISG)
- Headlights linked to rain sensor (automatic)
- Easy-exit seat return via the instrument cluster (electric seats only)
- Meridian sound system equaliser settings (Meridian Surround Sound)
- Overall improved software updates throughout the vehicle
- Bluetooth connectivity and satellite navigation functionality

PROCEDURE : It is necessary to update the software on all affected vehicles within your Aftersales car parc, both when carrying out Pre-Delivery Inspections (PDI) and at the next service centre visit

MODULE	NEW SOFTWARE PART NUMBERS
Switch Control Unit Gateway (SCUG)	11M1290CP.06
Instrument Cluster (IC)	11M1180CP.25
Electronic Park Brake (EPB)	11M0190CP.04 11M0935CP.04
Body Controller (BC)	11M1215CP.12
Security Body Controller (SBC)	11M1075CP.18
Heating Ventilation and Air-Conditioning (HVAC)	11A4742CP.16
Door Module Left (DML)	11M1071CP.11
Door Module Right (DMR)	11M1070CP.11
Seat Control Module – Left (SCML)	11N2321CP.03
Seat Control Module – Right (SCMR)	11N2320CP.03
Head Unit / IRIS (HU)	11M1370CP.02 11M2167CP.02 11M2431CP.01
Electronic Stability Program (ESP)	11M1125CP.04

Steering Angle Sensor (SAS)	11M1099CP.04
Powertrain Chassis Control Unit (PCCU)	11M0938CP.22 European/ROW 11M2166CP.09 Federal
Engine Control Module (ECM)	11M2493CP.05 European/ROW 11M2490CP.04 Federal 11M2502CP.04 Federal
Satellite Navigation	11M2440CP.05 North America 11M2446CP.06 Australia/New Zealand 11M2451CP.05 Singapore/Malaysia 11M2853CP.03 Middle East (English language) 11M2854CP.04 Middle East (Arabic language) 11M2453CP.02 South Africa 11M2438CP.05 West/East Europe 11M2436CP.05 West Europe

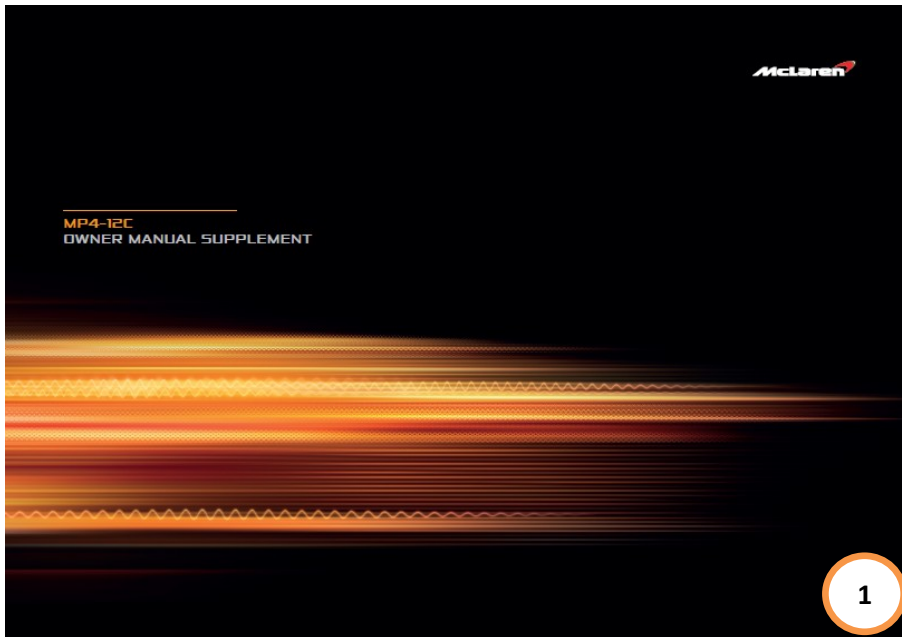
Care point: This campaign supersedes 11 M 039 "Vehicle software platform update to 9.0"

Care point: It is necessary that the following campaigns listed are carried out before 11 M 042 "Vehicle software update to platform 10.2":-

- 11 A 032 "Replacement of both door latches" or 11 A 033 "Replacement Left-Hand door latch" or 11 A 034 "Replacement Right-Hand door latch"
- 11 B 005 "Replacement of displacement sensors brackets and drop link rods"
- 11 M 045 "Diversity Tuner Retrofit (including bumper antenna)" or 11 M 046 "Diversity Tuner Retrofit"
- 11 A 030 "HVAC drain tube modification"
- 11 M 037 "Replace vehicle key electrics"

Care point: The Platform 9.0 'Owner Manual Supplement' (1) must be placed in the vehicle once the campaign has been carried out. This only applies to vehicles that have not had 11 M 039 "Vehicle software platform update to 9.0" carried out previously. The customer must also be informed of the new driver / passenger door opening functionality.

Care point: The Owner' Manual Supplement' (1) includes information relating to the new IEE OCS system functionality. This system is not fitted to vehicles built prior to 31st May 2012. Customers should refer to their main Owner' Manual should they require information relating to the OCS system on their vehicle.



'Owner Manual Supplements' (1) have been supplied directly to dealers previously for campaign 11 M 039 "Vehicle software platform update to 9.0".

Care point: A 'customer certificate' will be sent directly to the dealers. The Vehicle Identification Number must be entered into the document and supplied to the customer.

Care point: A EU compliance document will be supplied to you by your Regional Aftersales Manager (if applicable), this document must also be presented to the customer.

This is to certify that McLaren MP4-12C chassis number

has been upgraded to Model Year 2013 specification by an Authorised McLaren Retailer including

Standard Equipment

- McLaren M838T engine upgraded to 625PS (455PS)
- McLaren 7-Speed SSG transmission improved with new calibration
- Programmable intake sound generator (ISG)
- Radio and antenna updates to improve reception
- Bluetooth telephone and contacts
- Auto activation of headlights improved to include rain-detection
- General software updates throughout the vehicle systems

Optional Equipment (where fitted to the vehicle as part of the original specification)

- Easy-exit electric seat function expanded to provide seat return via menu stalk
- New audio equaliser settings (part of Meridian upgrade) - Pure, Expanded & Extreme
- IRIS satellite navigation


Antony Sherif
Managing Director

Greg Levine
Sales and Marketing Director

CONFIRMATION OF CERTIFICATE

TO WHOM IT MAY CONCERN

The Undersigned:

Hereby certifies that the engine of the presented car, McLaren MP4-12C, has had an engine power upgrade, using:

- Platform 10 software 625PS upgrade

After modification it is equal regarding emissions, sound level and power output of all McLaren MP4-12C vehicles as described in EC type-approval number : e11*2007/46*0232*04

ENGINE

Working principle:	Positive ignition, four stroke, twin-turbo forced induction
Number and arrangements of cylinders:	8 in a 90° V
Capacity cm ³ :	3798cc
Fuel:	Petrol (unleaded)
Maximum power output:	460kw @ 7500

SOUND

	Stationary dB (A)	Drive-by dB (A)
Coupe Standard muffler	93.6 @ 3750	74
Coupe Sports muffler	100 @ 3750	74
Spider Standard muffler	93.6 @ 3750	73
Spider Sports muffler	100 @ 3750	74

EXHAUST EMISSIONS

Test procedure	Type 1
CO	525.0
HC	44.2
NOx	22.4
HC + NOx	N/A

CO₂ EMISSIONS/FUEL CONSUMPTION

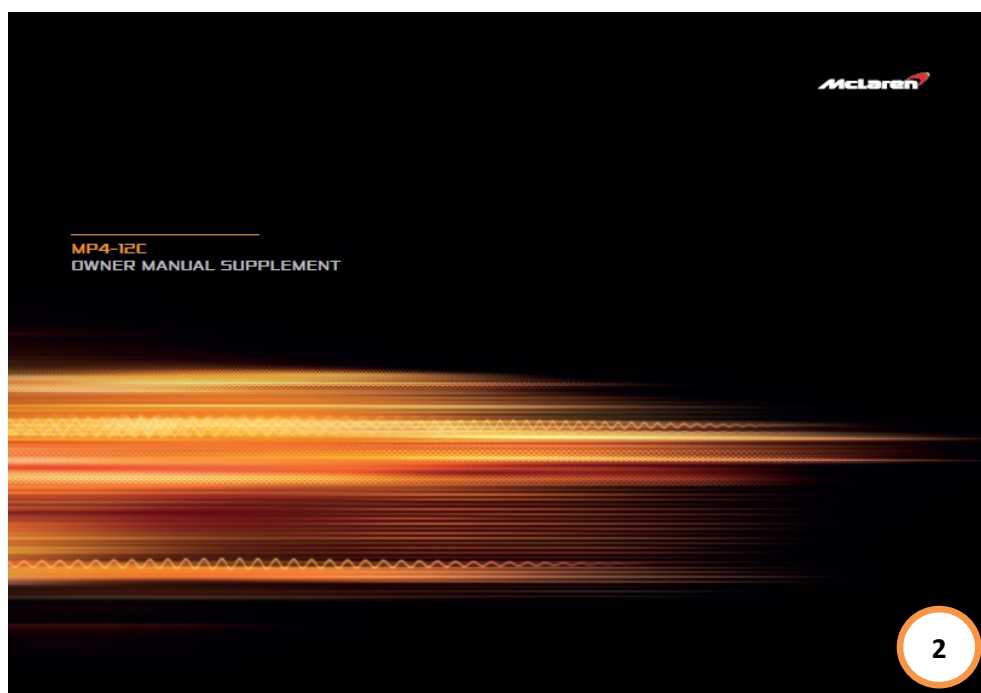
Number of the base directive as applicable to EC type-approval ECE R101.01		
	CO ₂	l/100Km
Urban	438	18.5
Extra-urban	187	7.8
Combined	279	11.7

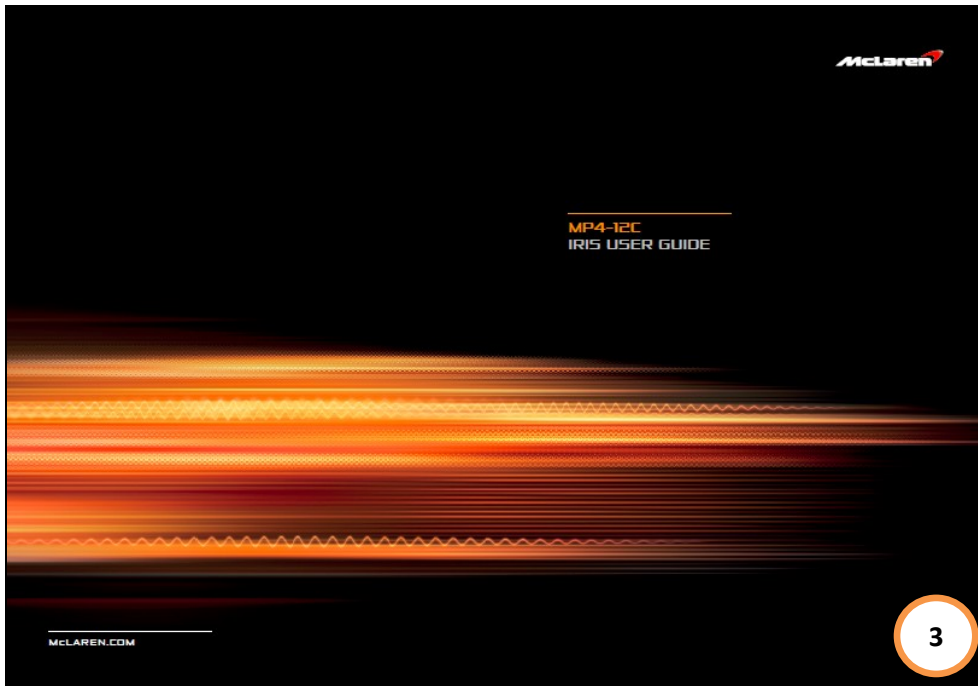
Place: McLaren Technology Centre, Woking, Surrey

Discussion

Care point: The 'Owner' Manual Supplement(2) includes information relating to the 2013 Model Year system functionality.The IRIS User Guide (3) includes information relating to functional operation for the Bluetooth connectivity and satellite navigation that has been added to customer vehicles with this platform update.

Care point: The 'Owner' Manual Supplement (2) and IRIS User Guide (3) must be placed in the vehicle along with the customer certificate for all markets and the compliance document for all EU vehicles. These manuals and customer certificates will be sent directly to dealers.





Care point: The Steering Angle Sensor (SAS) update is only required on vehicles that have not had campaign 11 M 034 or 11 M 036 previously carried out.

Care point: The Electronic Stability Program (ESP) and Electronic Park Brake (EPB) update is only required on vehicles that have not had campaign 11 M 039 previously carried out.

REMOVAL:

1. Please refer to AA-RM-02A02-03-004 - Remove/Install luggage bin – rear.

Care point: In order to avoid personal injury and damage to the vehicle, do not connect the positive terminal (+) to the negative terminal (-). Ensure that the connections are secure. Do not place any metal objects near the battery when charging and do not place the Deutronic battery charger directly onto the battery unit.

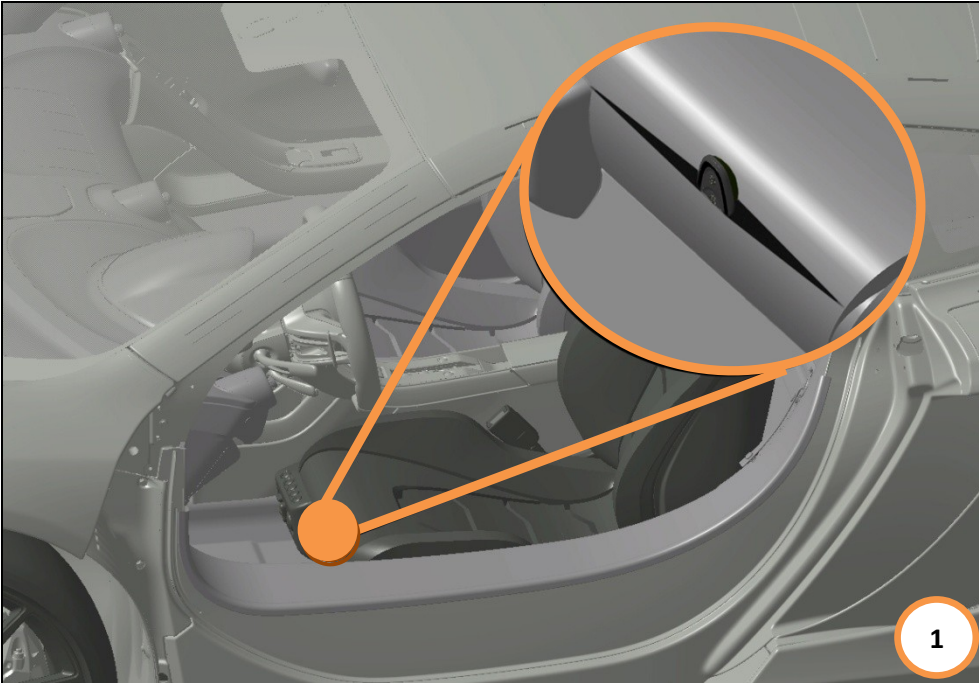
2. Keep the battery on charge, using a Deutronic battery charger during the software downloading procedure.

Care point: Both the driver and passenger windows must be in the fully open position during software downloads.

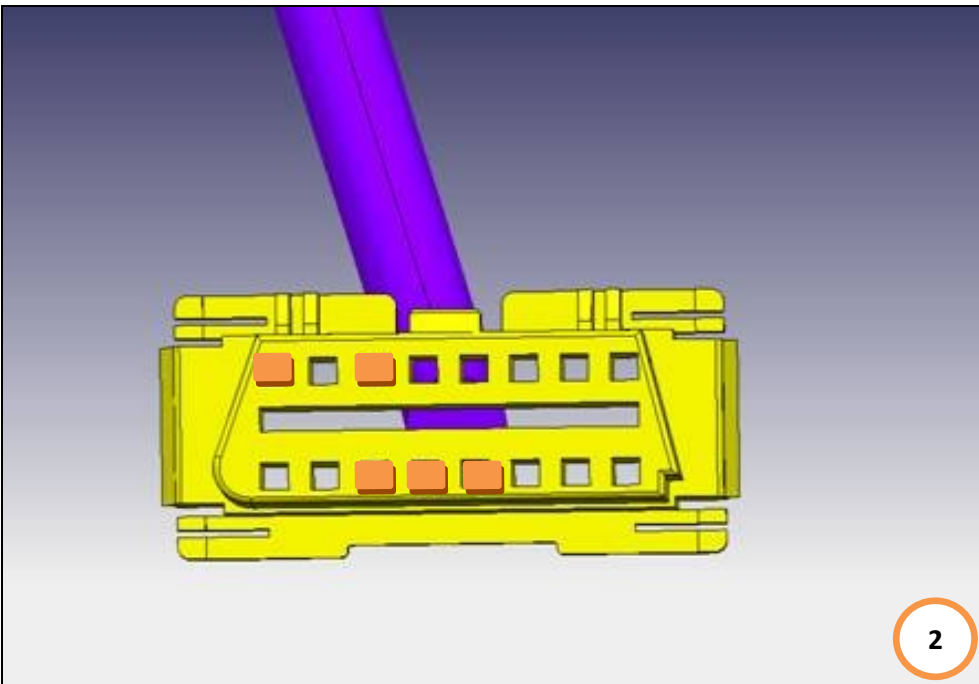
Care point: All software downloads require the vehicle to be in ignition state 5.

Care point: During the software download process, it is normal for the instrument cluster displays to extinguish temporarily.

Care point: The key must be positioned in the driver's seat front pocket, picture below (1).

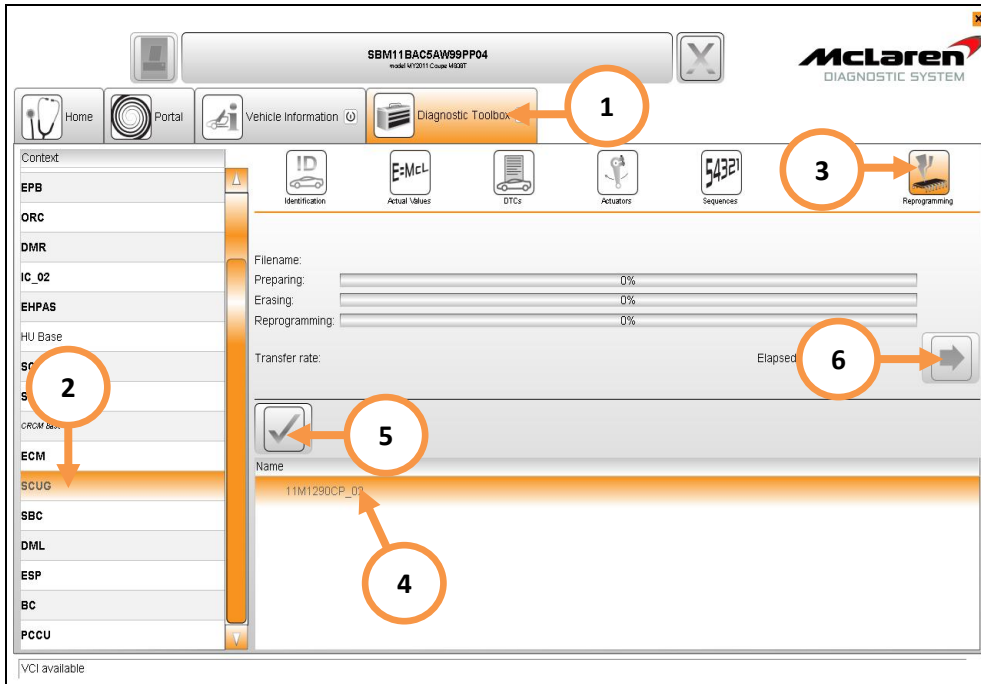


3. Check OBD connector pins 4, 5, 6, 14 and 16, as highlighted below are secure. Loose pins can cause module software download errors. If any of the pins are found to be loose these should be closed up before module reprogramming is carried out (2).



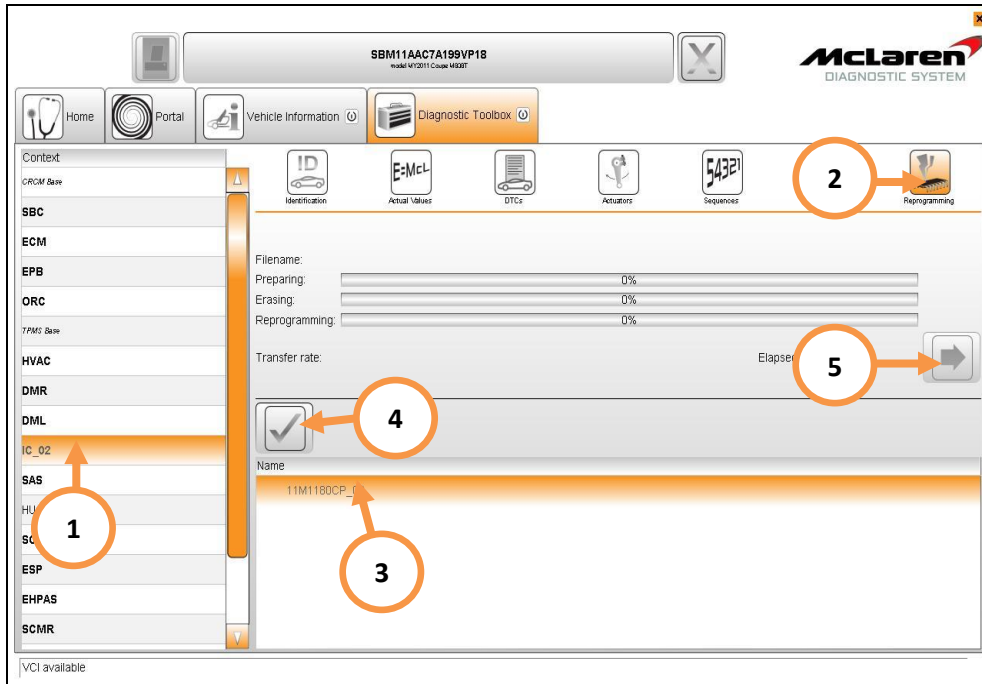
SCUG SOFTWARE UPDATE:

1. Connect the McLaren Diagnostic System (MDS) to the vehicle.
2. Proceed to the Diagnostic Toolbox (1), select SCUG (2), then Reprogramming (3), select the software level 11M1290CP.06 (4), then proceed to the software download by selecting the tick button (5), followed by the arrow button (6). Select 'YES' to initiate programming.

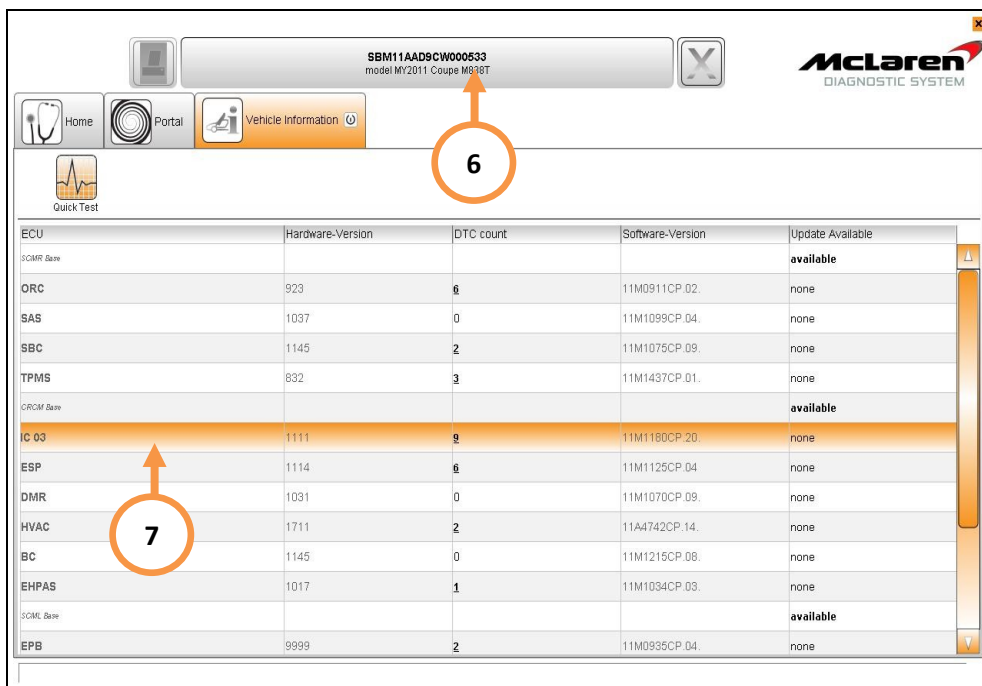


IC SOFTWARE UPDATE:

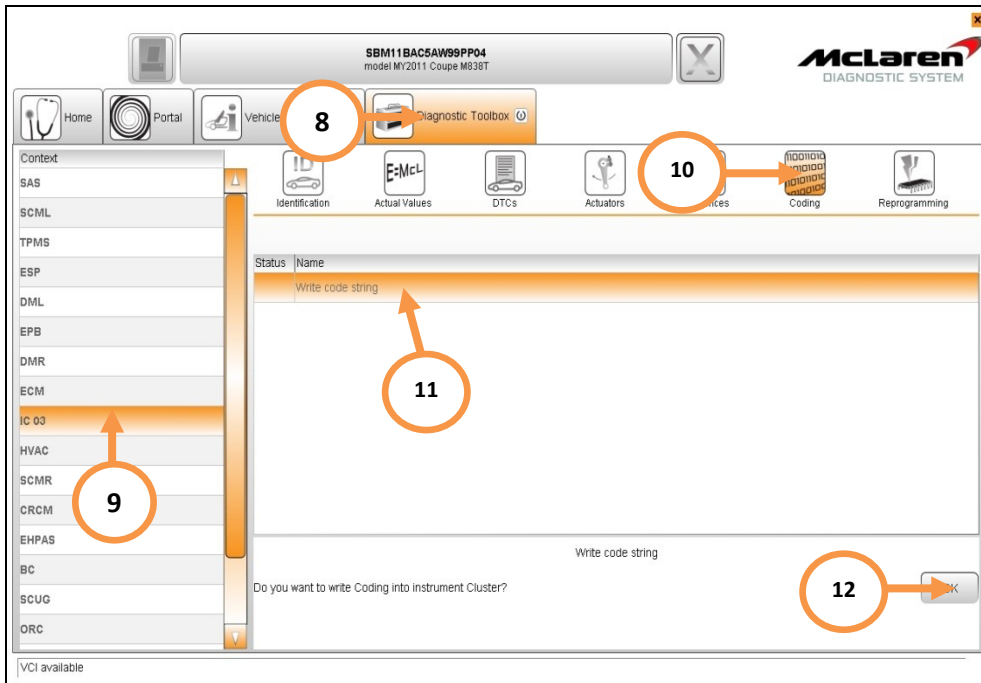
3. Select IC_02 (1), then Reprogramming (2), select the software level 11M1180CP.25 (3), then proceed to the software download by selecting the tick button (4), followed by the arrow button (5). Select 'YES' to initiate programming.



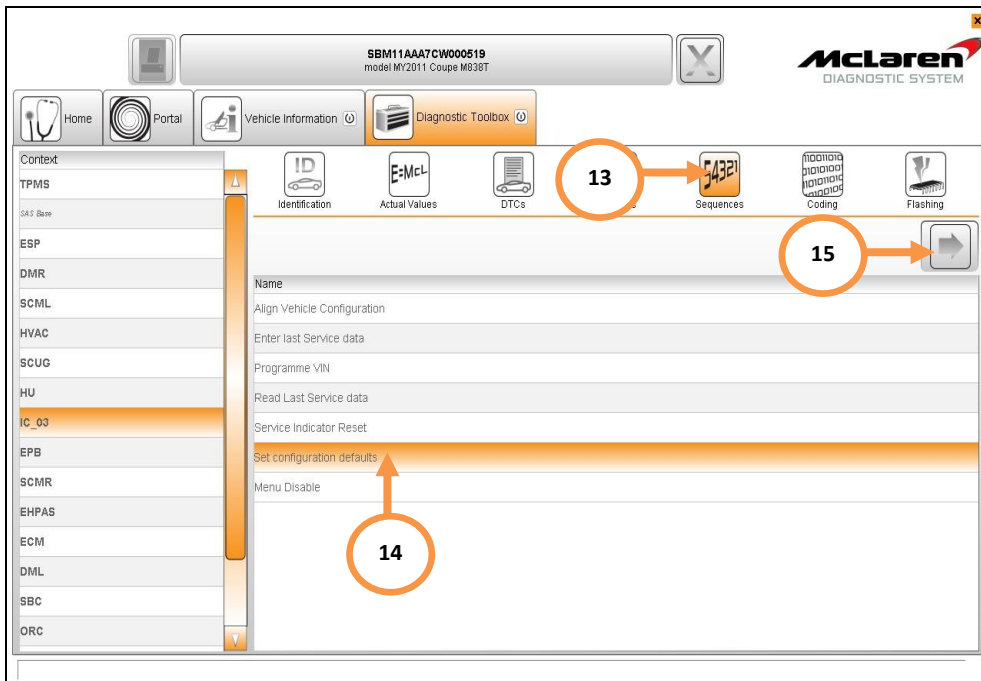
4. Once the download is successful select the chassis button (6) to re-enter the scan now page. It is necessary to re-scan the vehicle and IC_03 will now be displayed (7).



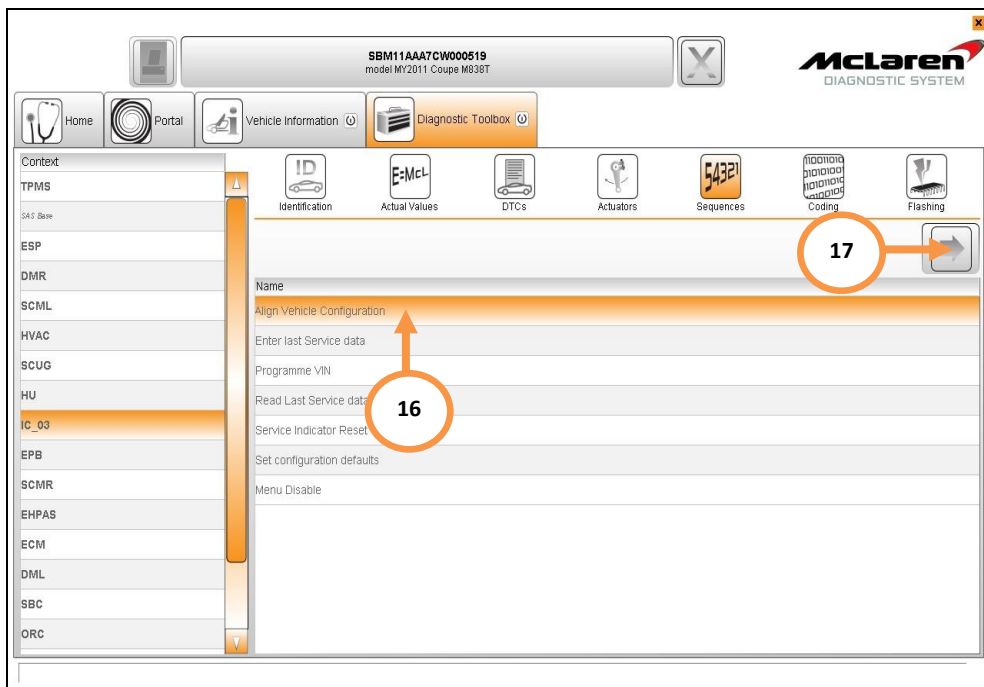
5. Once the vehicle has been re-scanned proceed to the Home screen and select the Diagnostic Toolbox (8), select IC_03 (9), select coding section (10), select Write code string (11). Click OK to continue (12).



6. Select Sequences (13), select set configuration defaults (14) then select the arrow button to proceed (15).



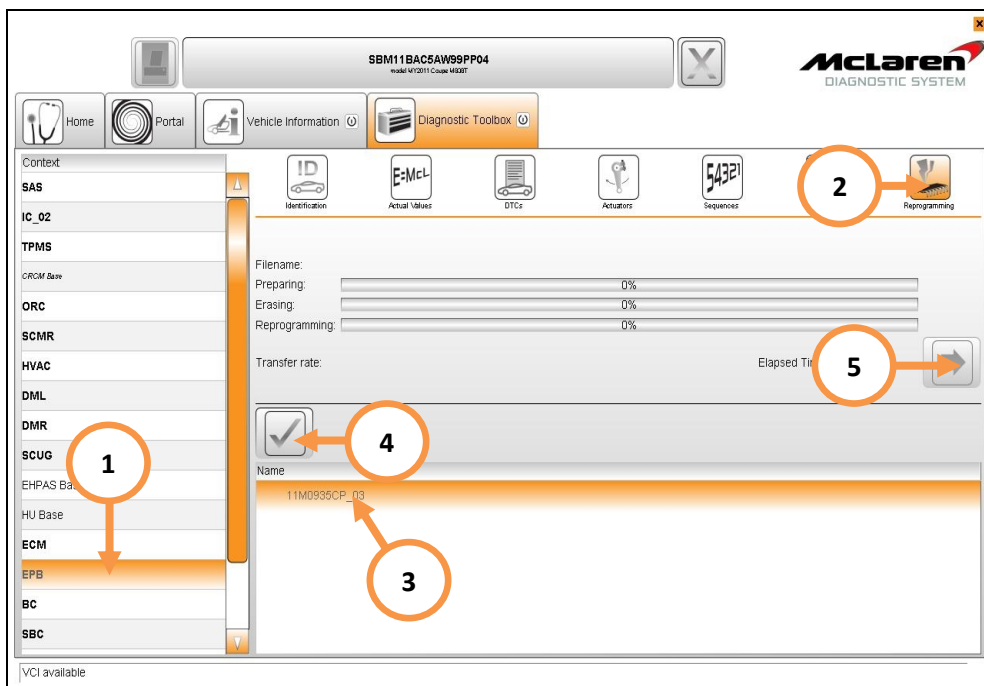
7. Select Align Vehicle Configuration (16), followed by the arrow key (17).



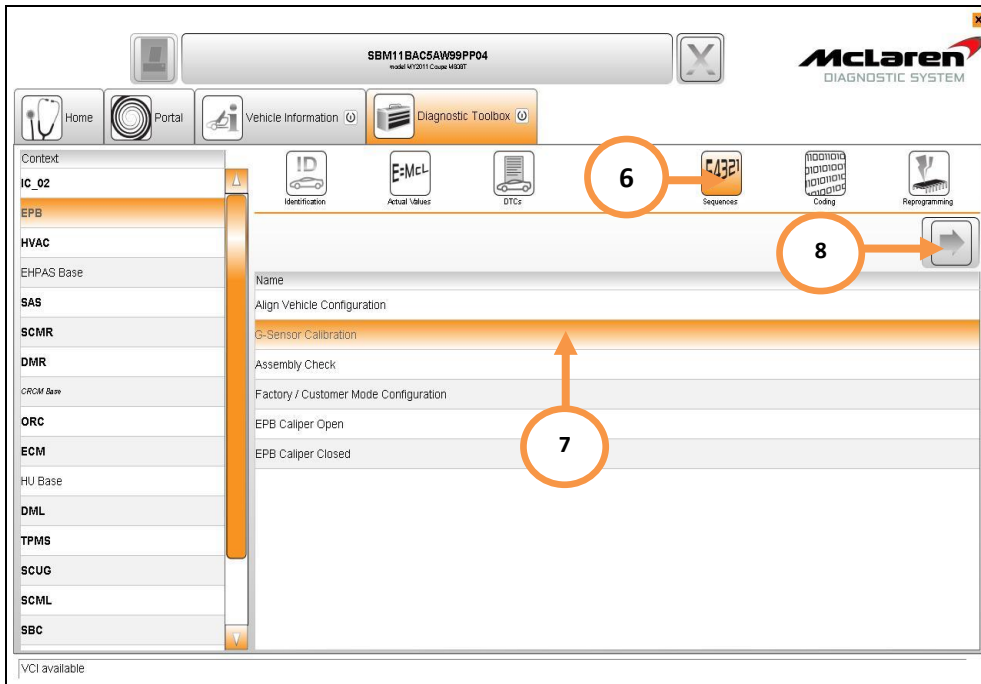
EPB: SOFTWARE UPDATE

Care point: The Electronic Park Brake (EPB) update is only required on vehicles that have not had campaign 11 M 039 previously carried out. Proceed to step 10 if not required.

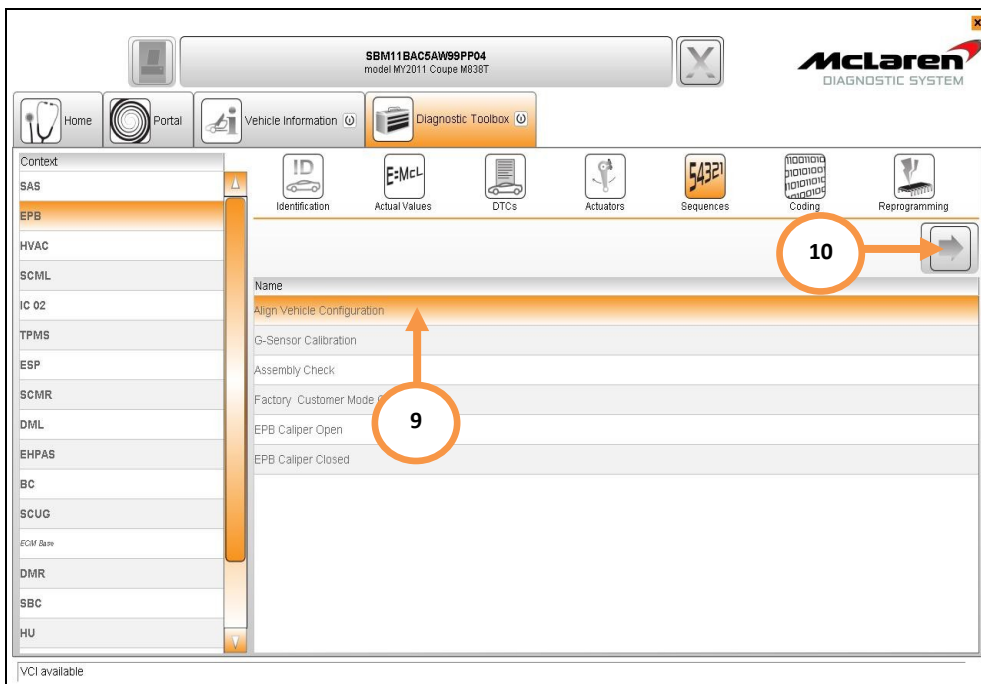
8. Select EPB (1), then Reprogramming (2), select the software variant applicable (3), proceed to the software download by selecting the tick button (4), then arrow button to proceed (5). Select 'YES' to initiate programming.



9. Select Sequences (6), select G-Sensor Calibration (7) then select the arrow button (8) to perform the G-Sensor calibration routine.

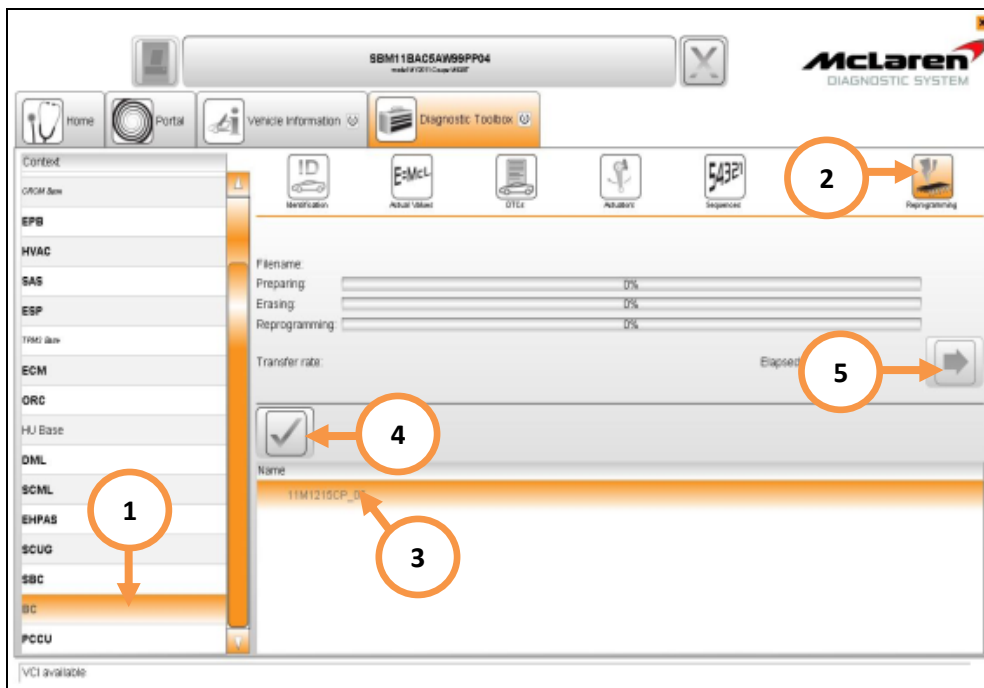


10. Select Align Vehicle Configuration (9), followed by the arrow key (10).

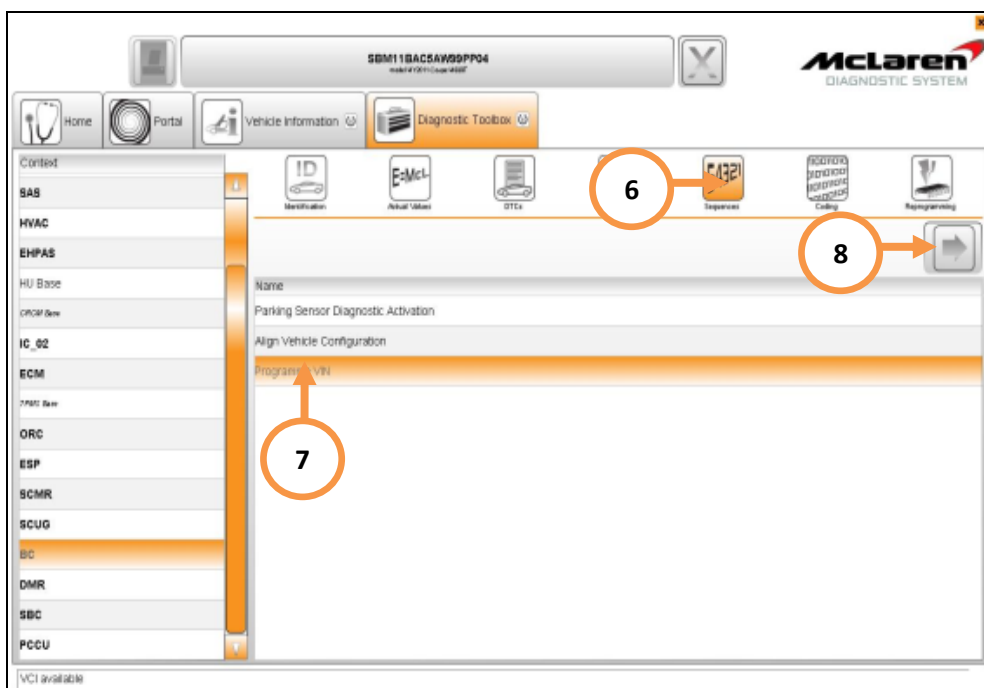


BC SOFTWARE UPDATE:

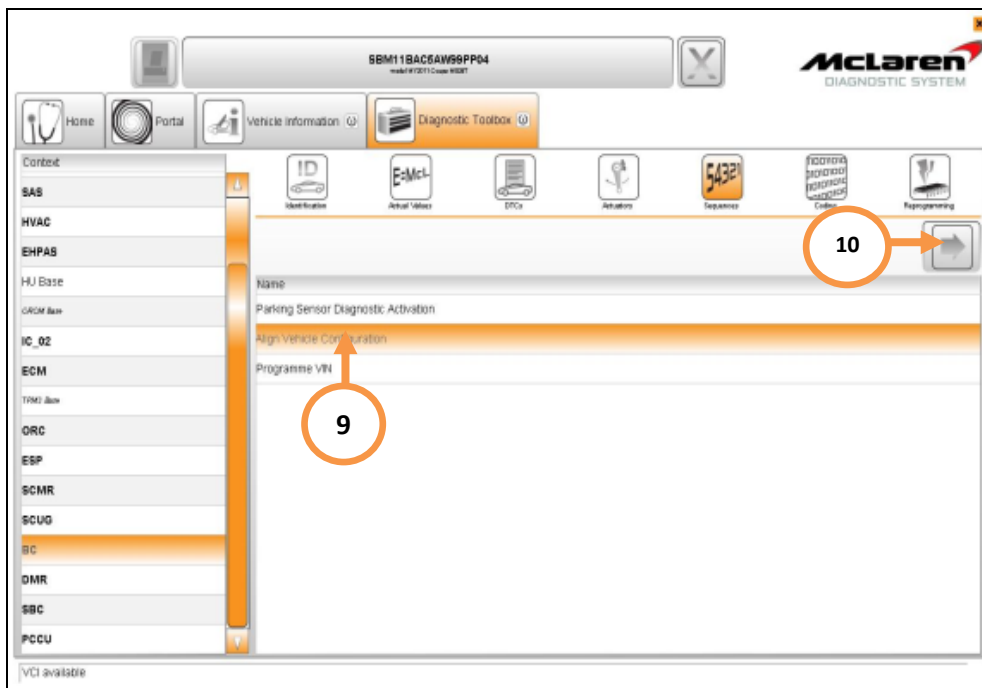
11. Select BC (1), then Reprogramming (2), select the software level 11M1215CP.12 (3), then proceed to the software download by selecting the tick button (4), followed by the arrow button (5). Select 'YES' to initiate programming.



12. Select Sequences (6), then Programme VIN (7), then select the arrow button to proceed (8).



13. Select Align Vehicle Configuration (9), followed by the arrow key (10).



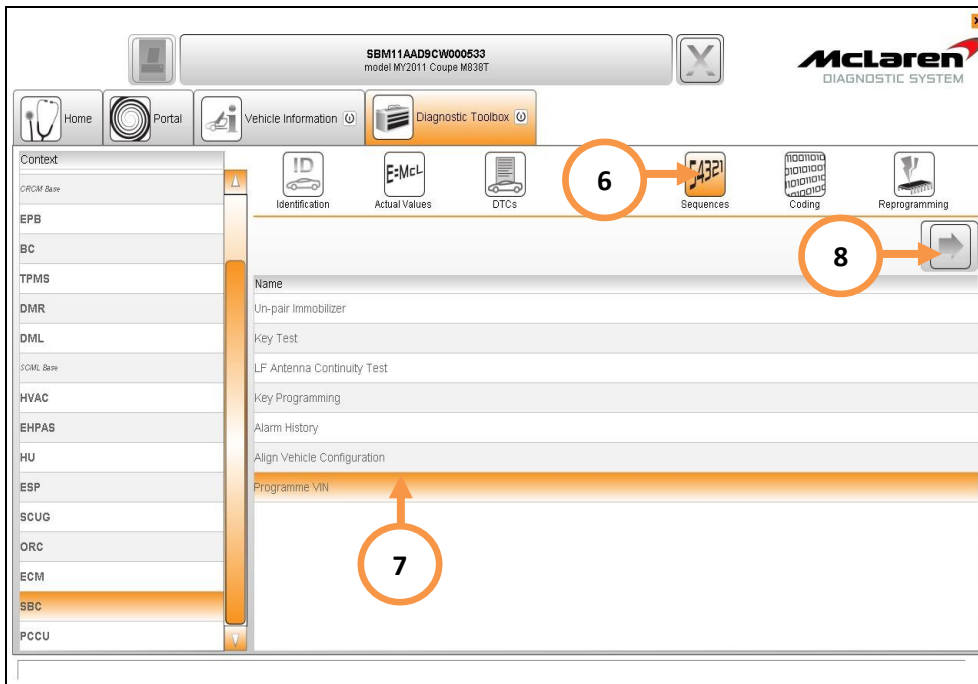
SBC SOFTWARE UPDATE:

14. Select SBC (1), then Reprogramming (2), select the software level 11M1075CP.18 (3) then proceed to the software download by selecting the tick button (4), followed by the arrow button (5). Select 'YES' to initiate programming.

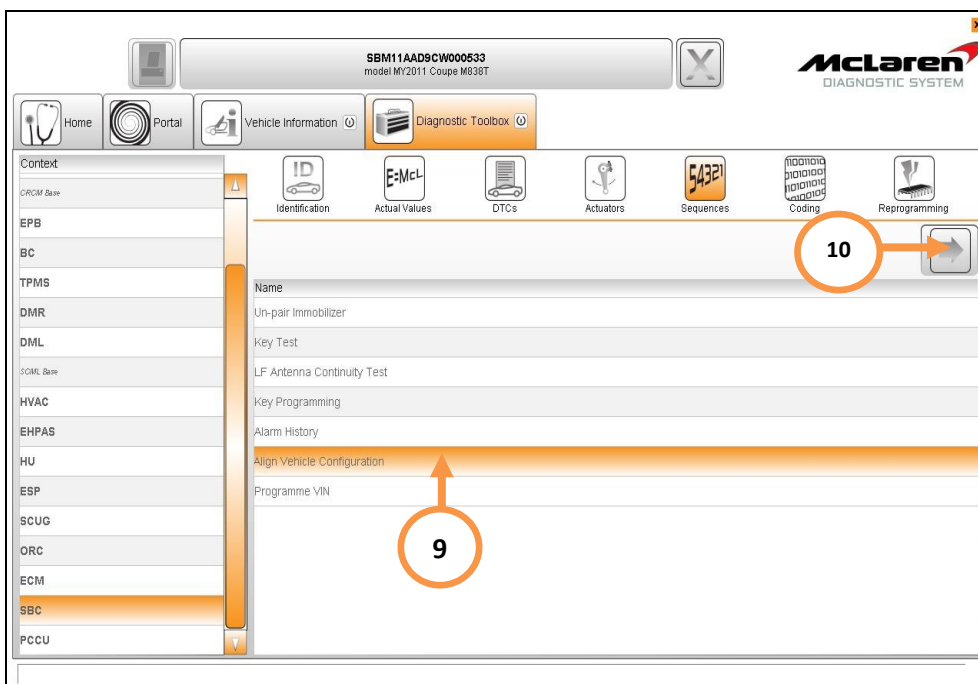


15. When the software download has been successfully completed, programming will force a sleep cycle to occur.

16. After one minute, press the unlock button on the key and then establish the vehicle into ignition state 5 before following the next steps.
17. Select Sequences (6), then Programme VIN (7) then select the arrow button to proceed (8). The programme VIN procedure will force a sleep cycle to occur after the programming is complete.
18. Press the unlock button on the key and then establish the vehicle into ignition state 5 before following the next steps.



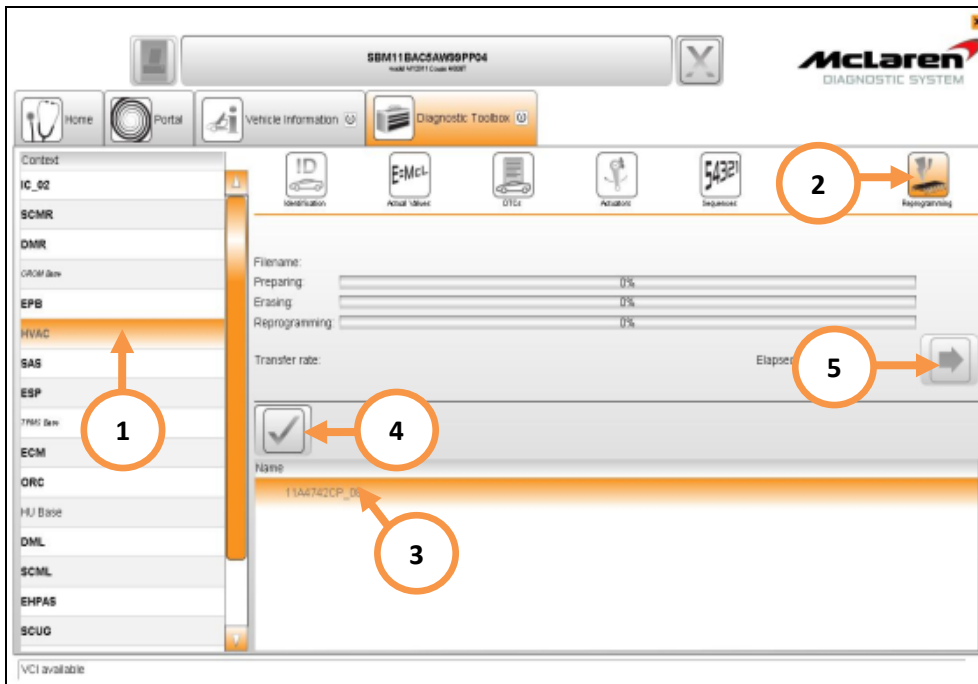
19. Select Align Vehicle Configuration (9), followed by the arrow key (10).



20. Press the unlock button on the key and then establish the vehicle into ignition state 5 before following the next steps.

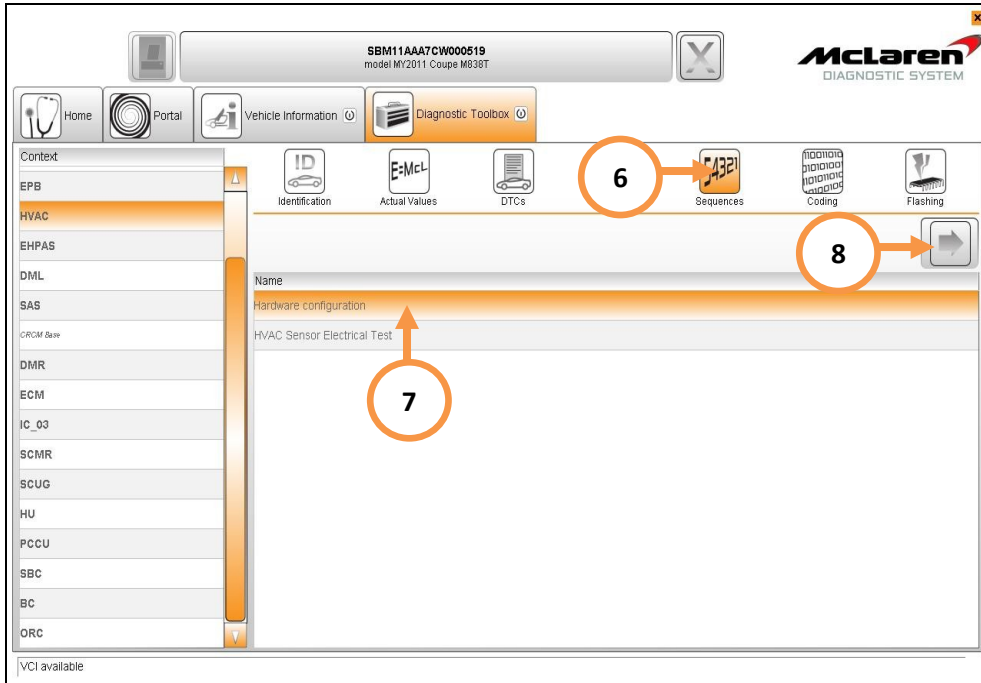
HVAC SOFTWARE UPDATE:

21. Select HVAC (1) then Reprogramming (2), select the software level 11A4742CP.16 (3), then proceed to the software download by selecting the tick button (4), followed by the arrow button (5). Select 'YES' to initiate programming.

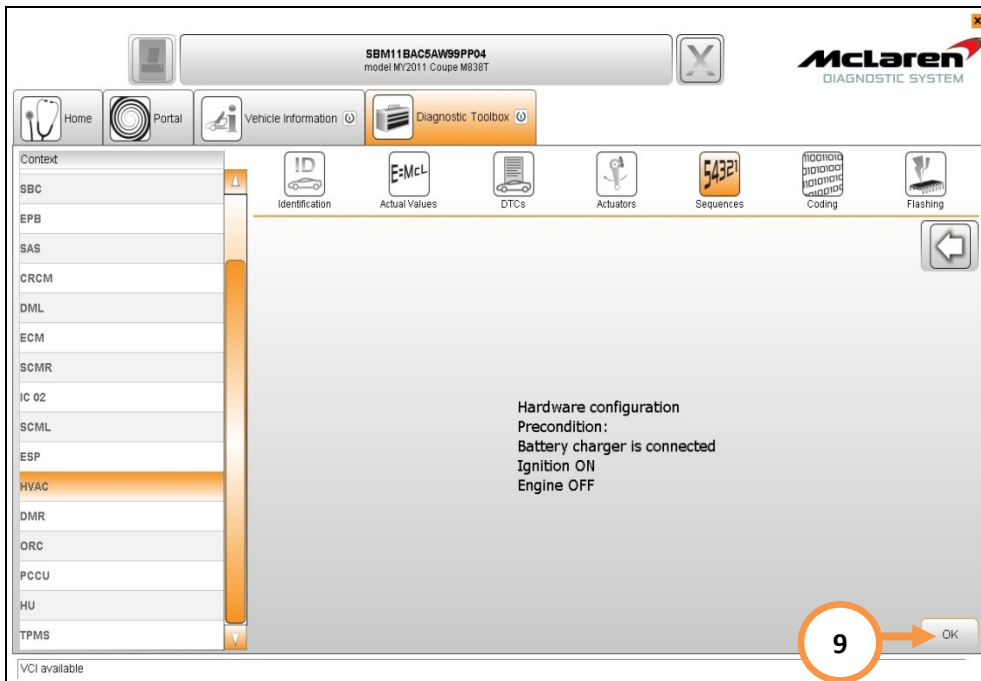


22. After the HVAC has been updated, the HVAC display panel may show the CAL symbol while the system performs a self calibration. When completed, the CAL symbol will disappear from the display.

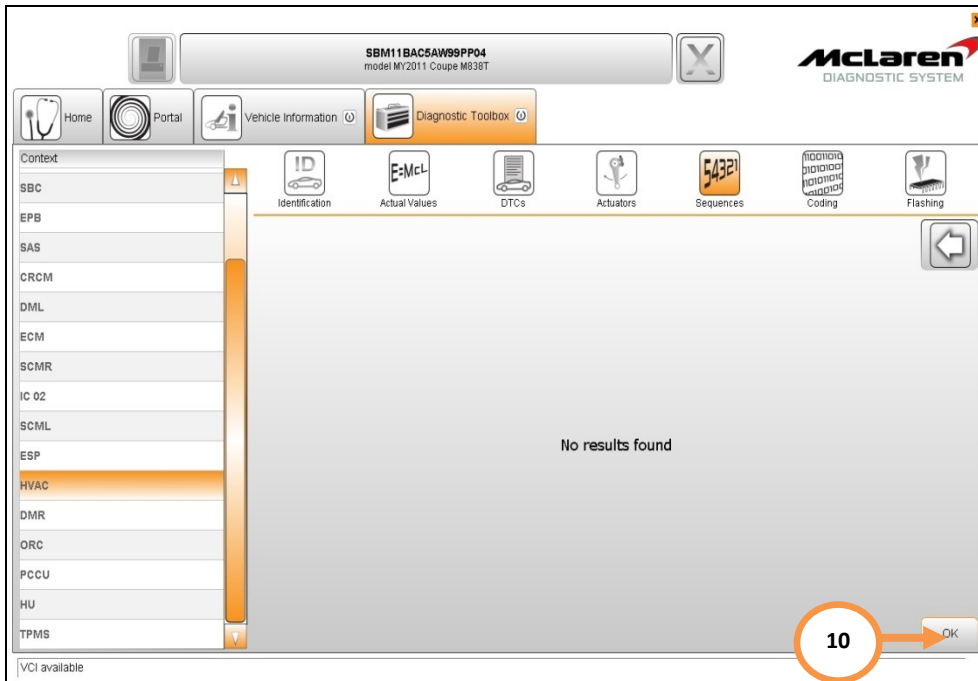
23. Select Sequences (6), then Hardware configuration (7), then select the arrow button (8) to proceed.



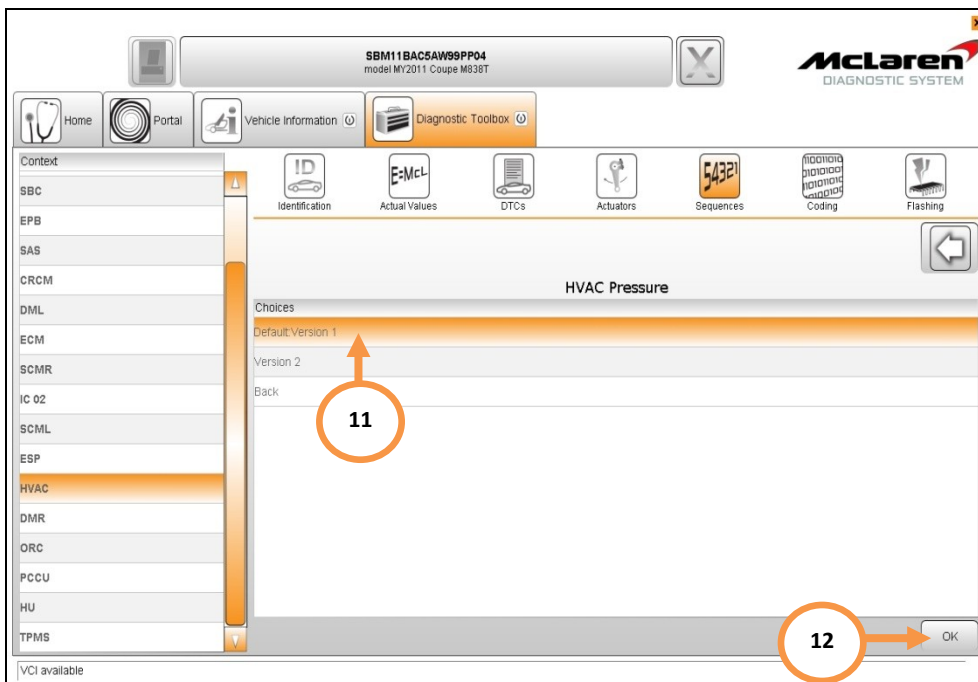
24. The following screen will appear, select OK (9).



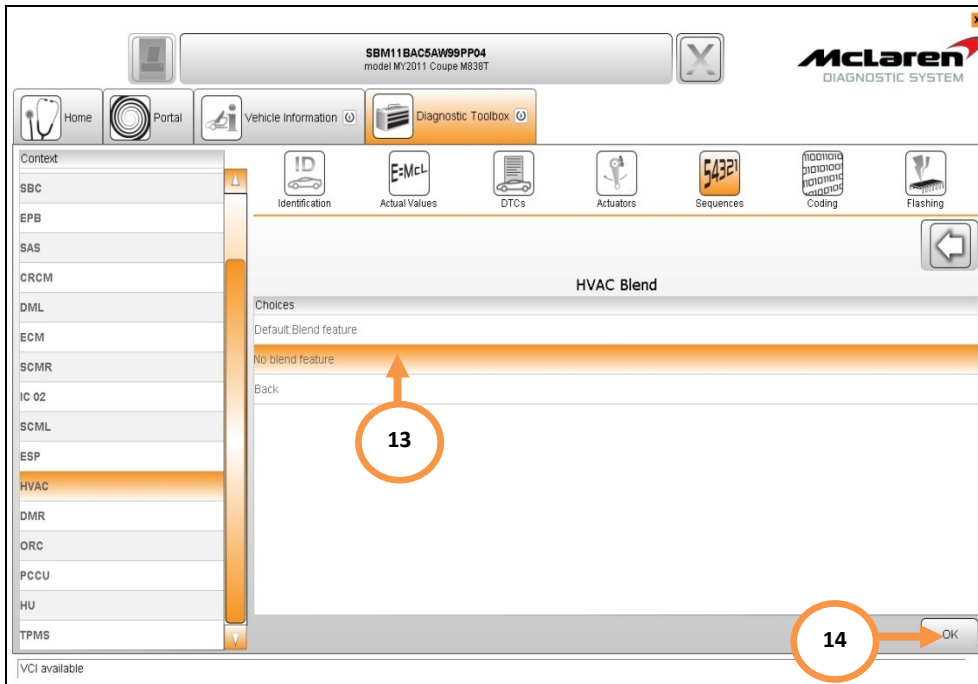
25. No results found will be displayed as the HVAC module has no stored configuration data. Select OK (10).



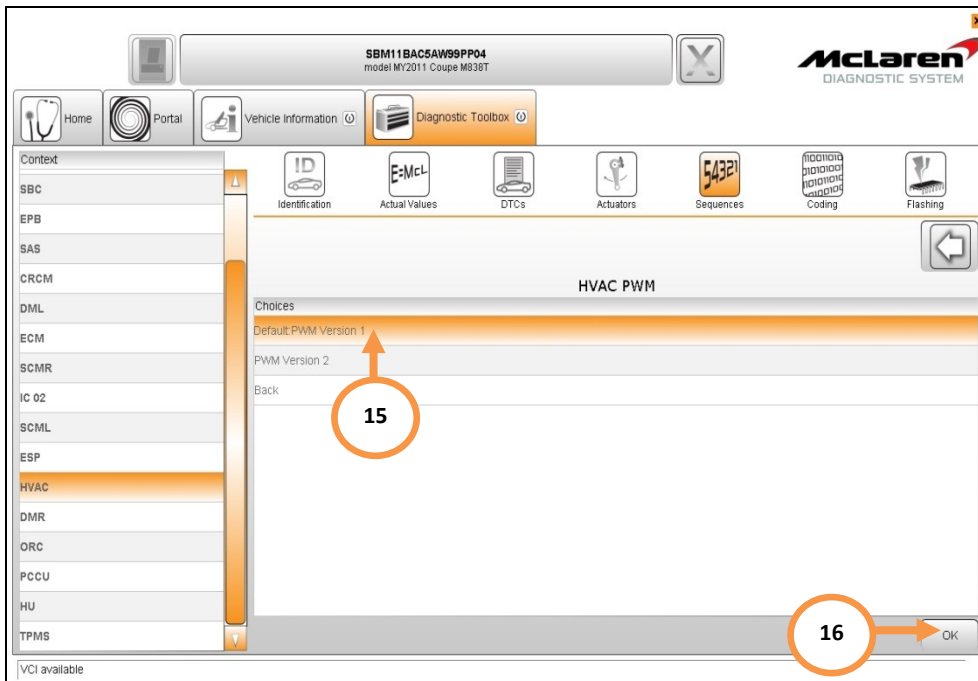
26. Select Default Version 1 (11) then select OK (12).



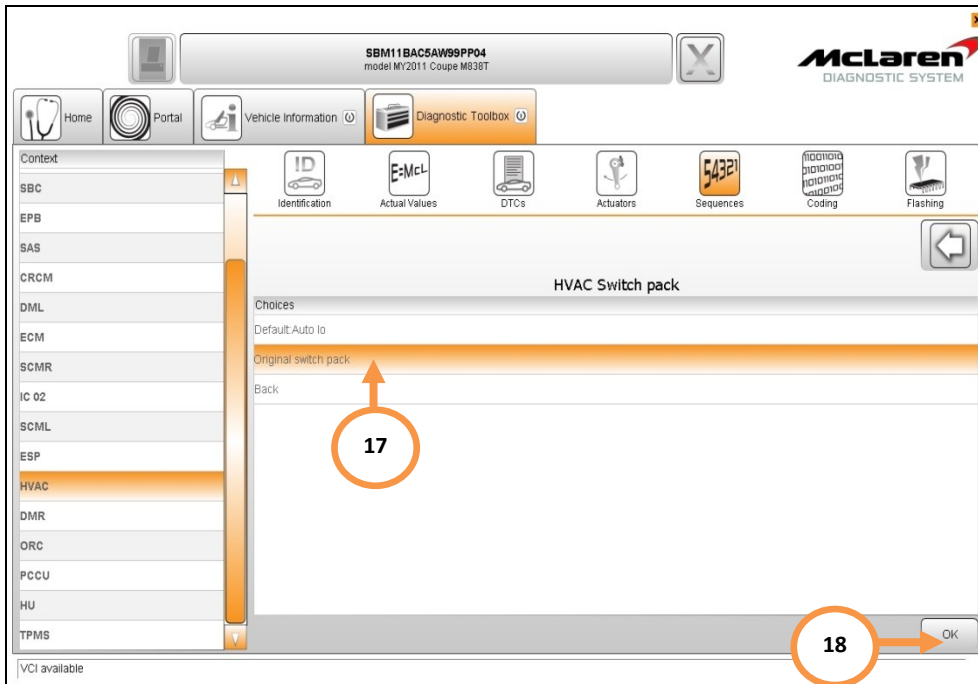
27. Select No blend feature (13) then select OK (14).



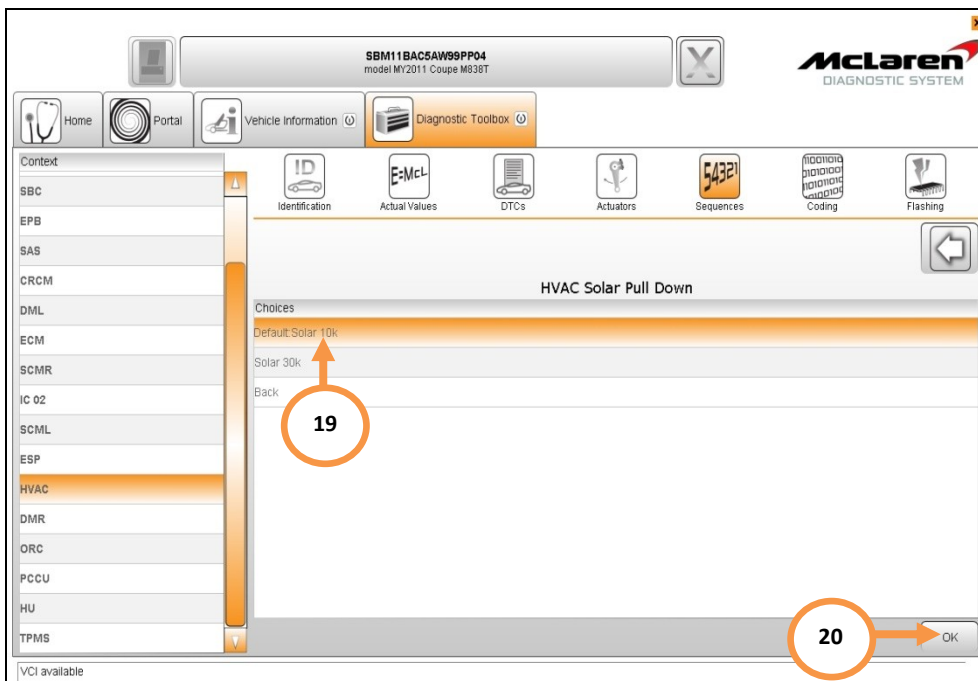
28. Select Default PWM Version 1 (15) then select OK (16).



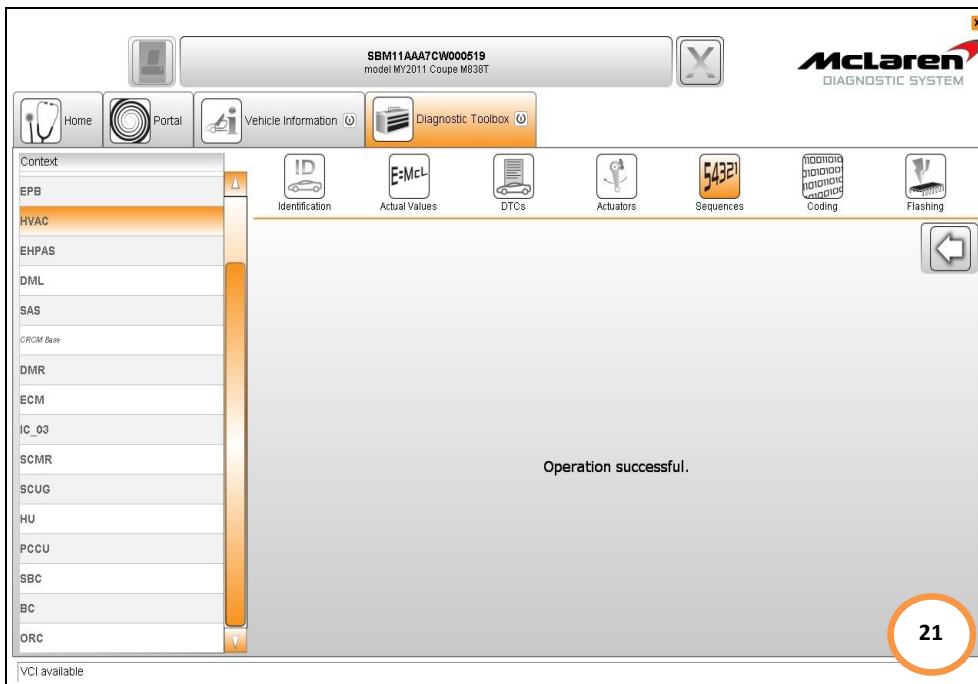
29. Select Original switch pack (17) then select OK (18).



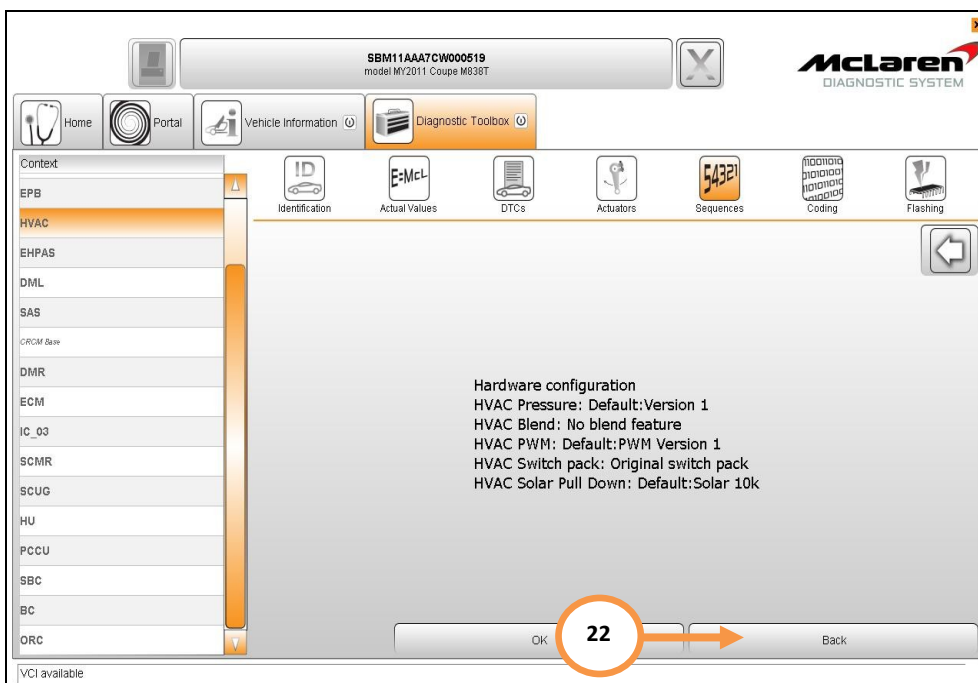
30. Select Default Solar 10K (19) then select OK (20).



31. Operation successful will be displayed (21).

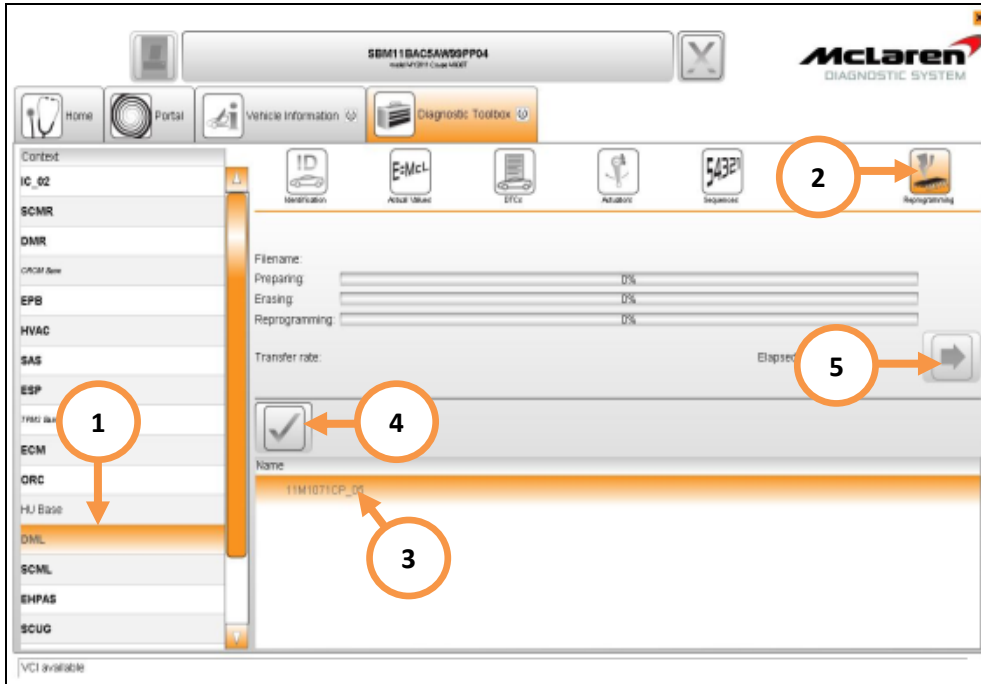


32. Repeat steps 23 and 24 to confirm the hardware configuration is correct as below. Select Back to abort the sequence (22).

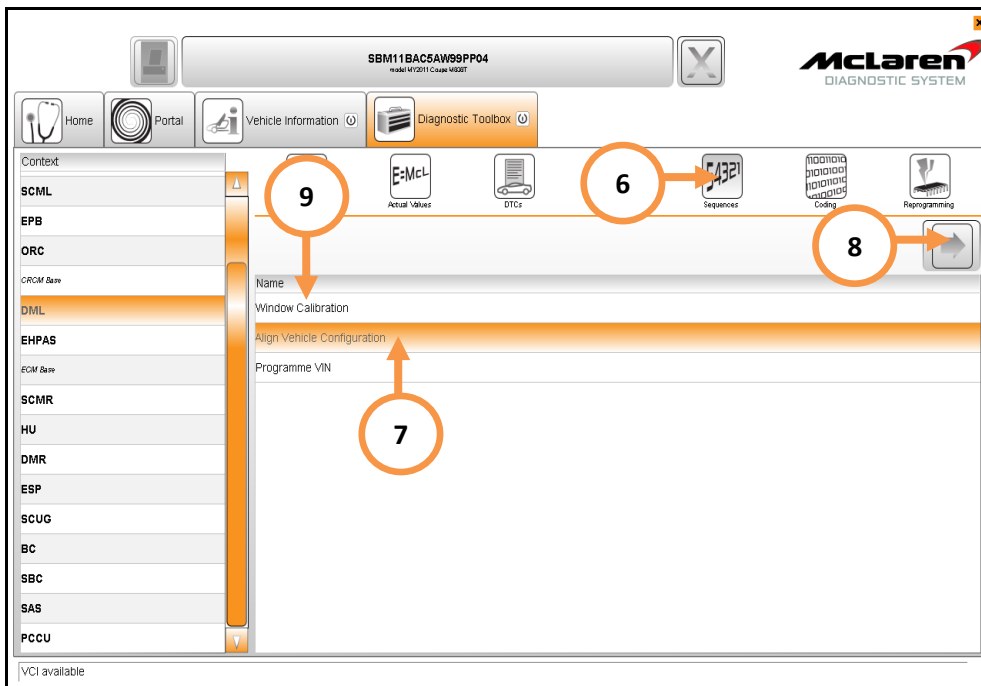


DML SOFTWARE UPDATE:

33. Select DML (1), then Reprogramming (2), select the software level 11M1071CP.11 (3) then proceed to the software download by selecting the tick button (4), followed by the arrow button (5). Select 'YES' to initiate programming.



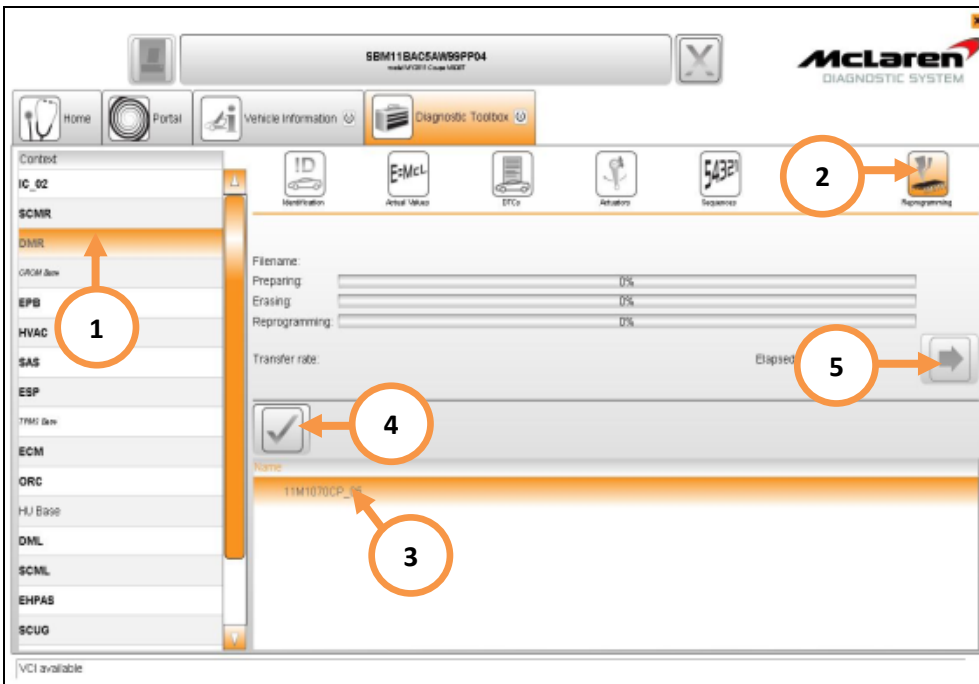
34. Select Sequences (6), select Align Vehicle Configuration (7), followed by the arrow key (8).



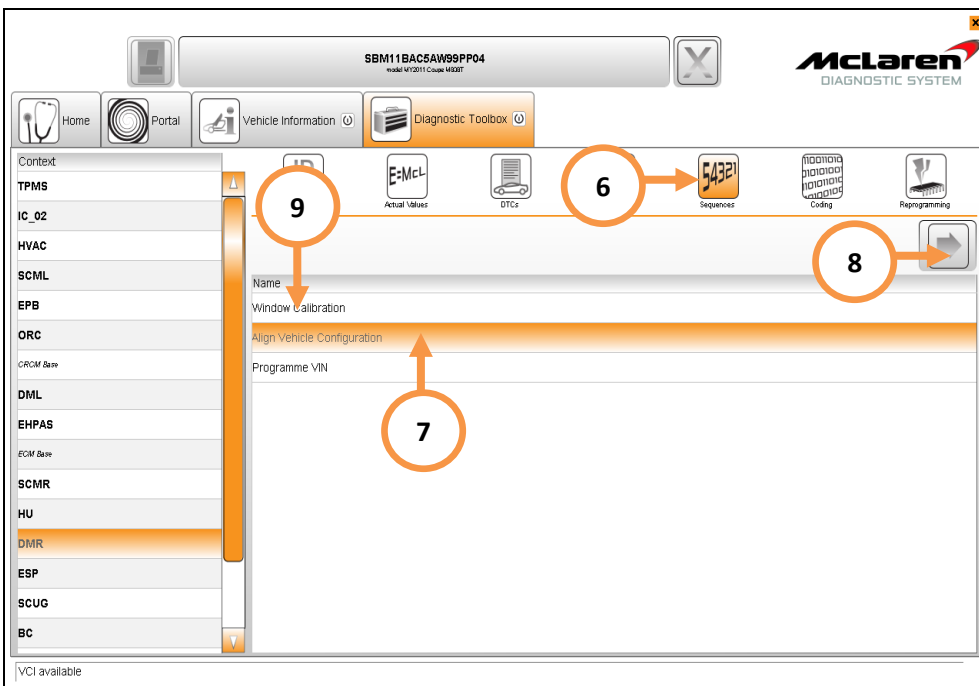
35. Select Window Calibration (9), followed by the arrow key (8).

DMR SOFTWARE UPDATE:

36. Select DMR (1), then Reprogramming (2), select the software level 11M1070CP.11 (3), then proceed to the software download by selecting the tick button (4), followed by the arrow button (5). Select 'YES' to initiate programming.



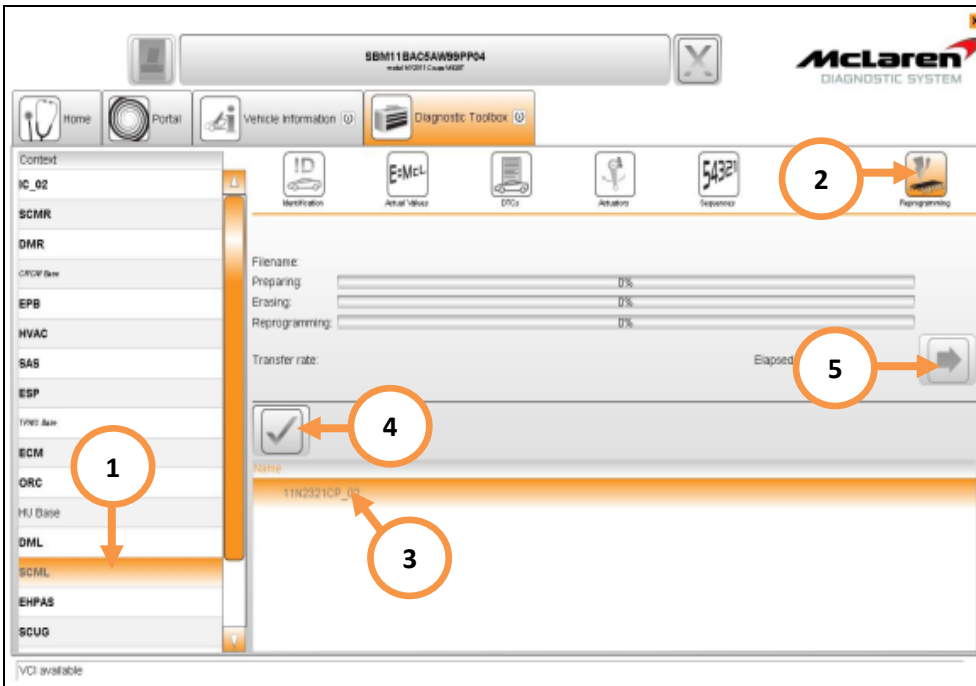
37. Select Sequences (6), select Align Vehicle Configuration (7), followed by the arrow key (8).



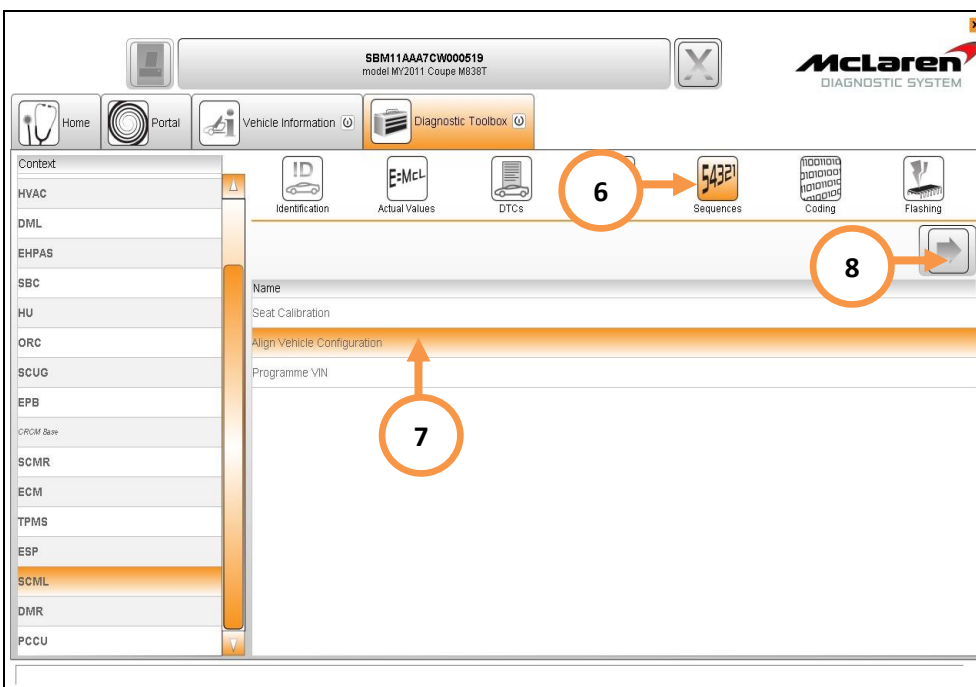
38. Select Window Calibration (9), followed by the arrow key (8).

SCML SOFTWARE UPDATE:

39. Select SCML (1), then Reprogramming (2), select the software level 11N2321CP.03 (3), then proceed to the software download by selecting the tick button (4), followed by the arrow button (5). Select 'YES' to initiate programming.

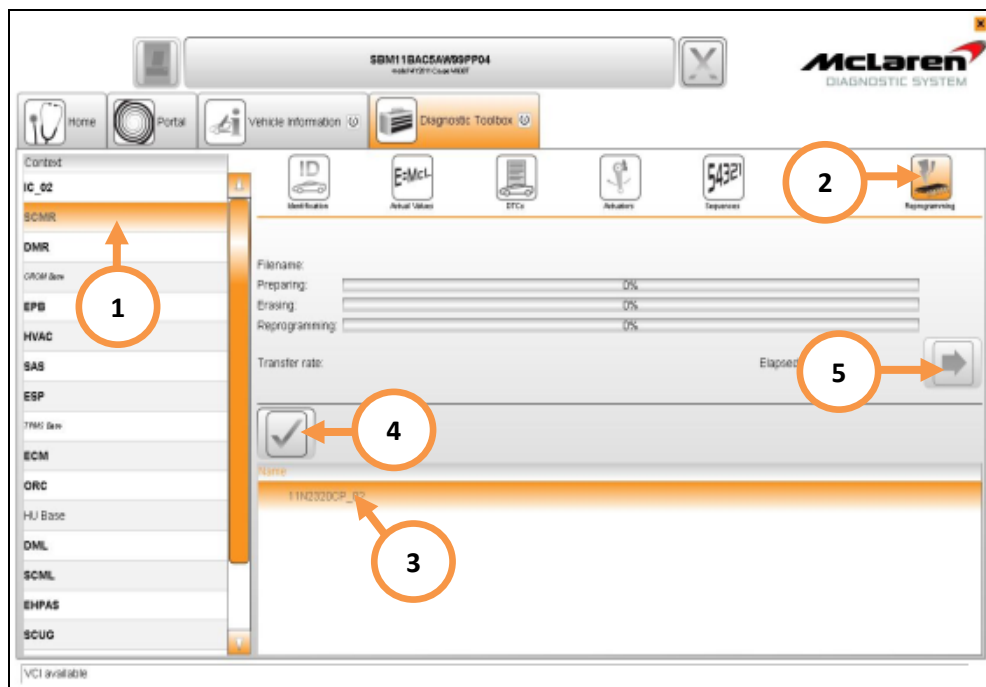


40. Select Sequences (6), select Align Vehicle Configuration (7), followed by the arrow key (8).

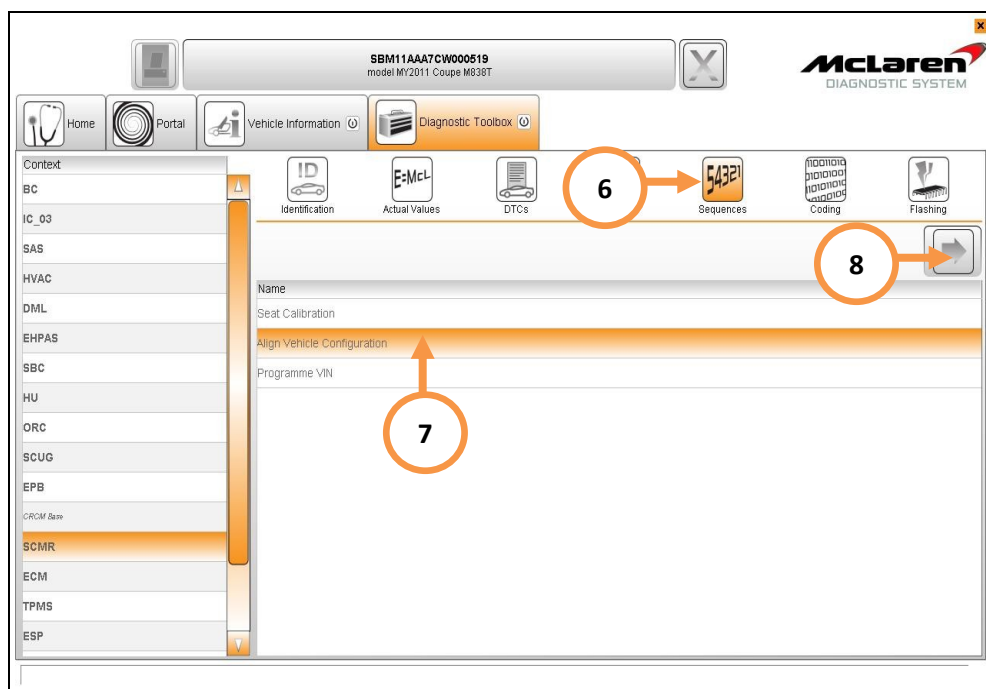


SCMR SOFTWARE UPDATE

41. Select SCMR (1), then Reprogramming (2), select the software level 11N2320CP.03 (3), then proceed to the software download by selecting the tick button (4), followed by the arrow button (5). Select 'YES' to initiate programming.



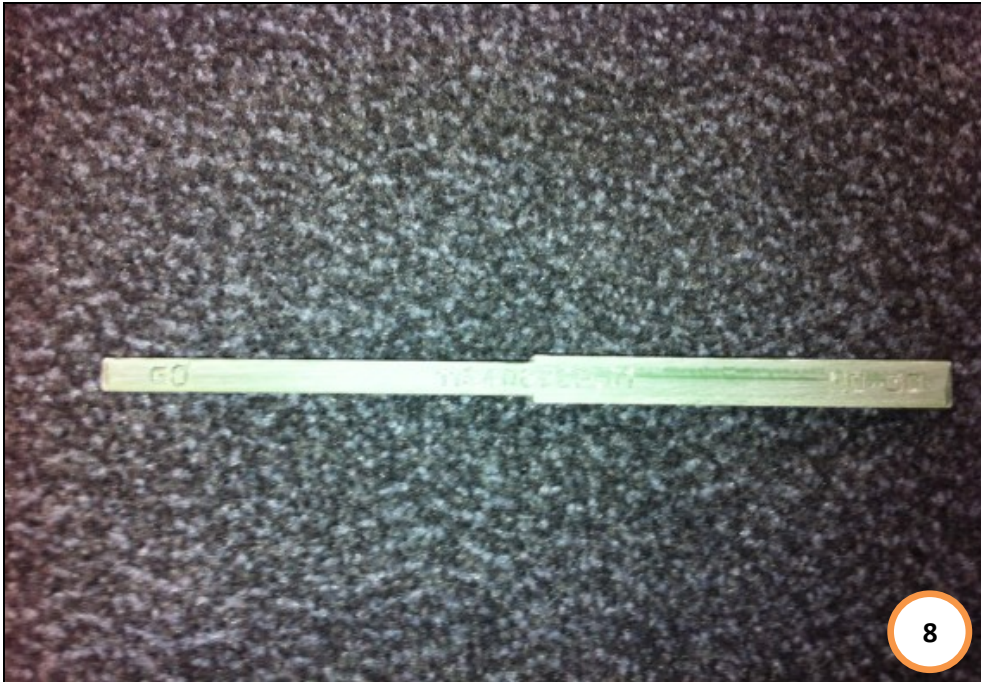
42. Select Sequences (6), select Align Vehicle Configuration (7), followed by the arrow key (8).



43. Check the seat memory function, if OK proceed to step 55, if not OK, carry out the seat calibration procedure below.

Care point: Ensure the vehicle is in ignition state 5 before calibrating seats.

Care point: It is necessary that the seat gauge 11S4089CP (8) is used to perform the seat calibration process.



44. Ensure the seat is positioned in approximately a mid-mid position and the seatback is vertical.

45. Move the seat rearwards into its most rearward position.

46. Move the seat forwards by approximately 50mm.

47. Move the seat rearwards once more until it is in its most rearward position.

48. Move the seat downwards into its most downward position.

49. Move the seat upwards into its most upward position.

50. Move the seat downwards once more until it is in its most downward position.

Care point: The seatback angle can be adjusted backwards and forwards any number of times as long as the seat remains in its rearmost lowest position.

Care point: The seat calibration gauge **must** be placed in the smallest gap between the seatback and the B-Pillar trim in order for the calibration to be performed correctly.

51. Adjust the backrest angle until the desired gap between the seatback and the B-Pillar has been achieved using the seat gauge. The gap **must not** be narrower than the smaller end of the calibration tool (9). The tool should move freely between the seatback and the B-Pillar.



52. The gap **must not** be wider than the widest end of the calibration tool (10). If the seat is in the correct position the tool should not be able to fit between the seatback and the B-Pillar.

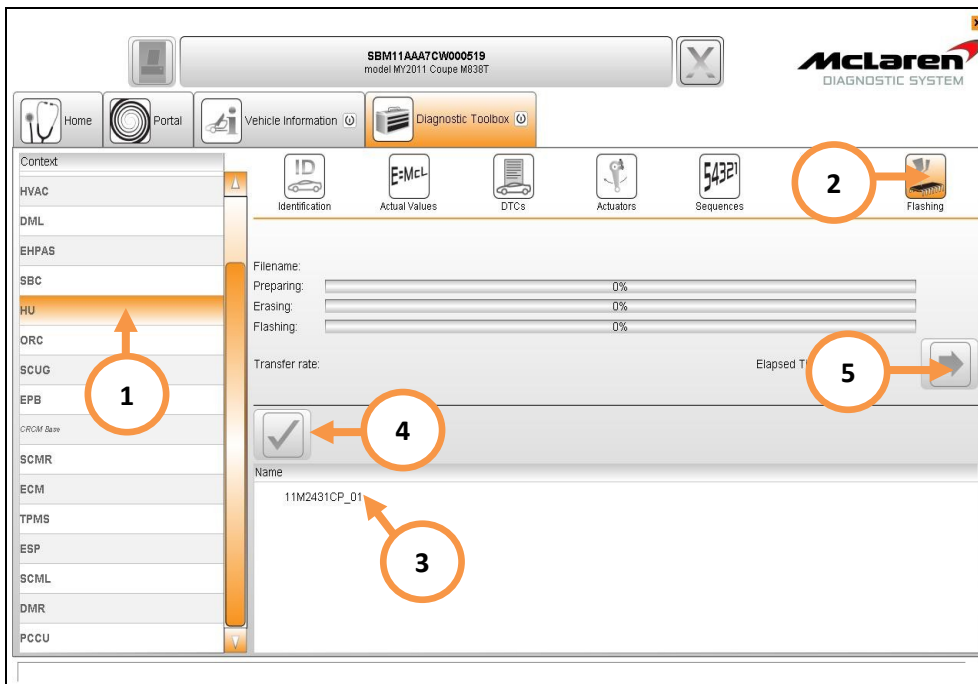


53. Press and hold down the heater and memory buttons on the seat switch pack simultaneously for approximately 5 seconds until a cluster sound is heard. Then move the seat to the mid-mid position.

54. If the cluster sound is heard no further action is required. If no cluster sound is audible repeat the calibration process from steps 44 to 53.

HU SOFTWARE UPDATE:

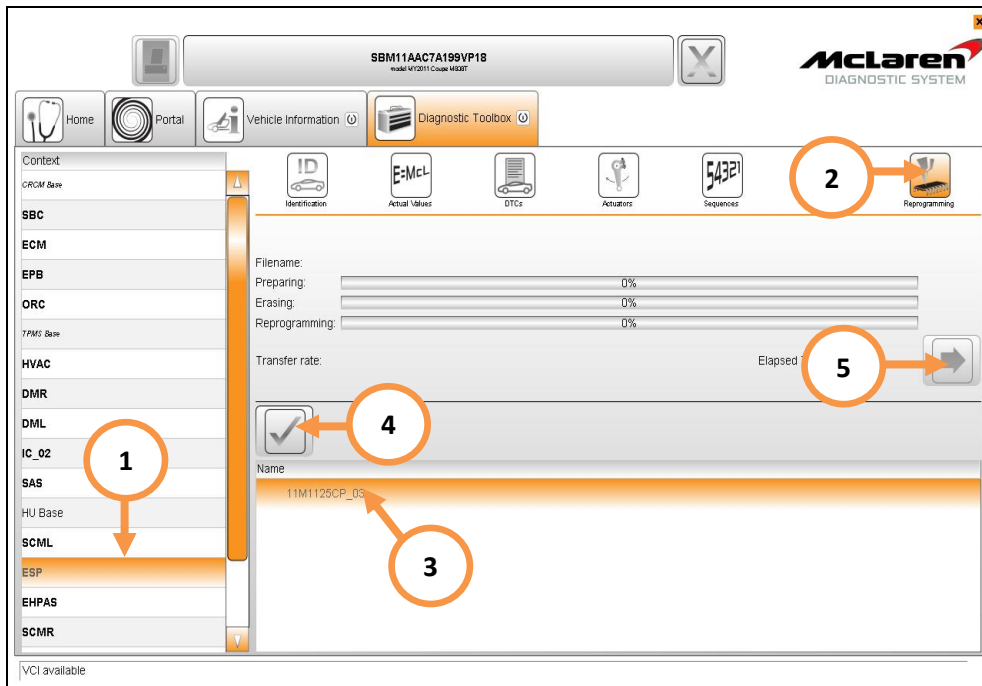
55. Select HU (1), then Reprogramming (2), select the software variant applicable (3) then proceed to the software download by selecting the tick button (4), followed by the arrow button (5). Select 'YES' to initiate programming.



ESP SOFTWARE UPDATE:

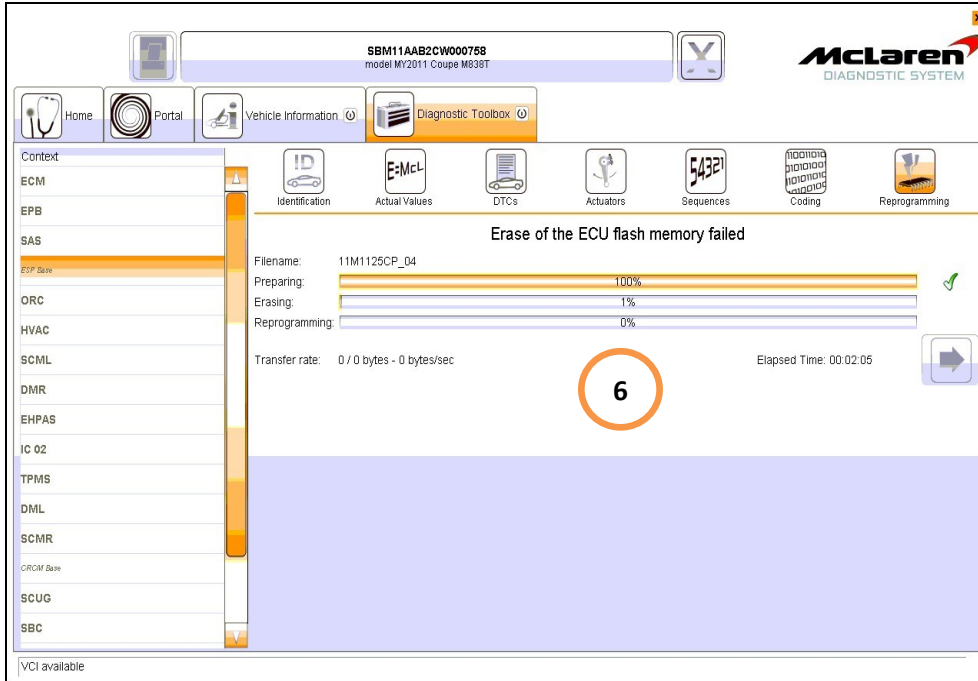
Care point: The Electronic Stability Program (ESP) update is only required on vehicles that have not had campaign 11 M 039 previously carried out. Proceed to step 63 if not required.

56. Select ESP (1), then Reprogramming (2), select the software level 11M1125CP.04 (3), then proceed to the software download by selecting the tick button (4), followed by the arrow button (5). Select 'YES' to initiate programming.

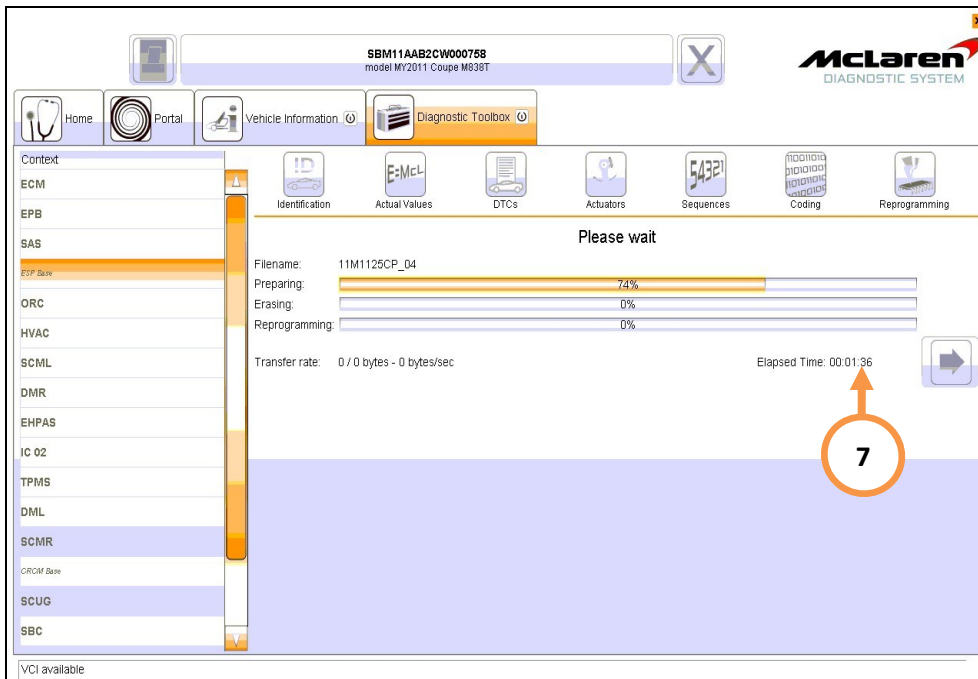


57. If the download is successful proceed to step 63.

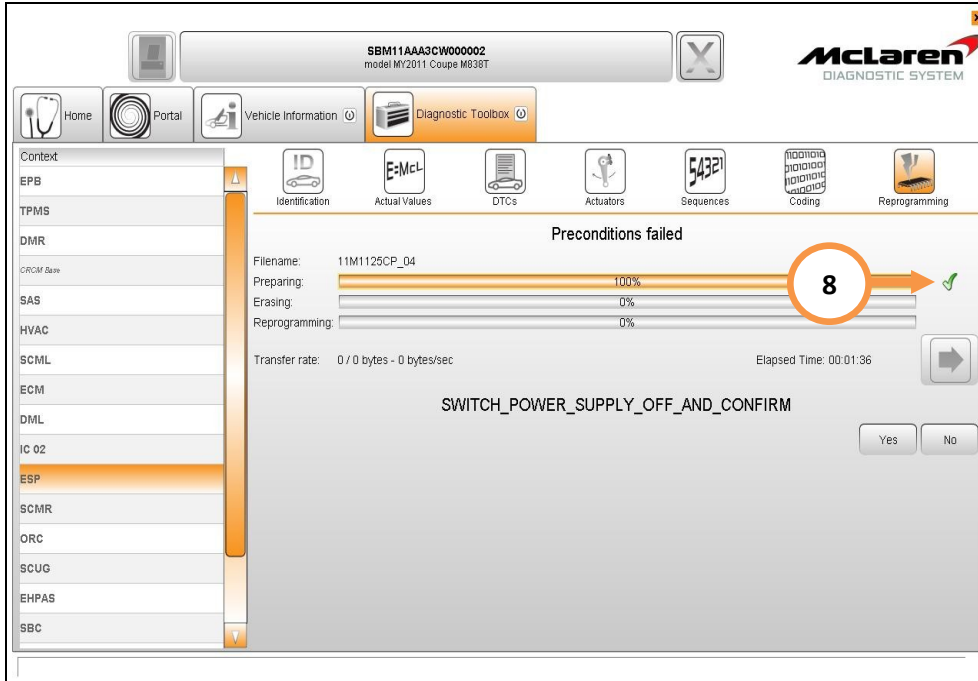
58. After the preparation phase of the download the system may inform the operator that the “Erase of ECU Flash Memory Failed”. In this circumstance the ESP control unit will require a power cycle (6).



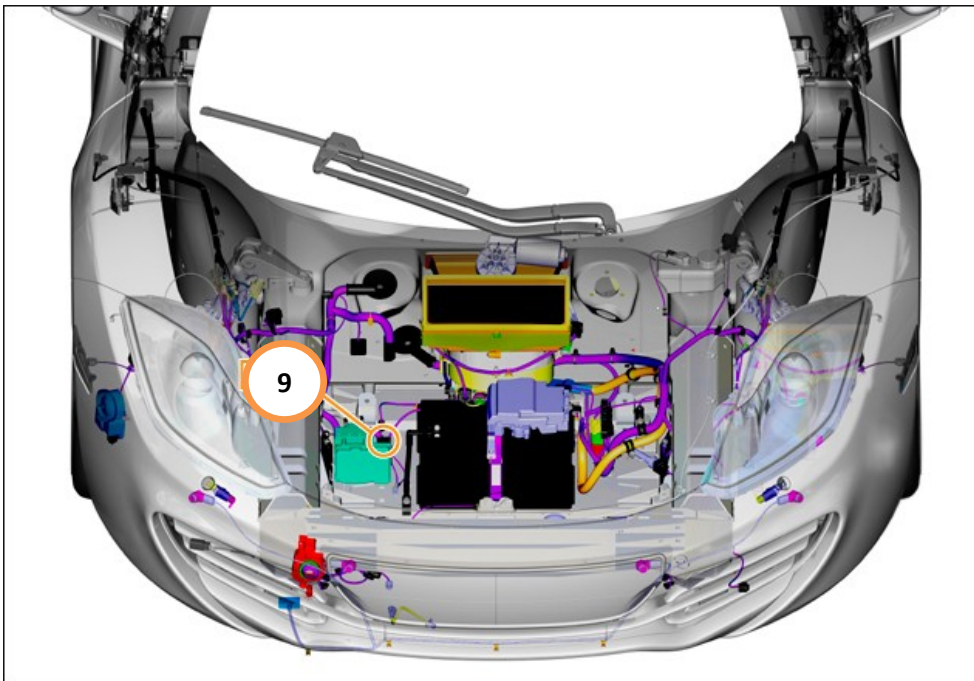
59. Proceed and reflash the ESP module, when the Elapsed Time is between 1.20 to 1.28 seconds (7), disconnect the ESP connector (9) and wait for 5 seconds before reconnecting. The “Preconditions failed” will now be displayed. Proceed to step 61.



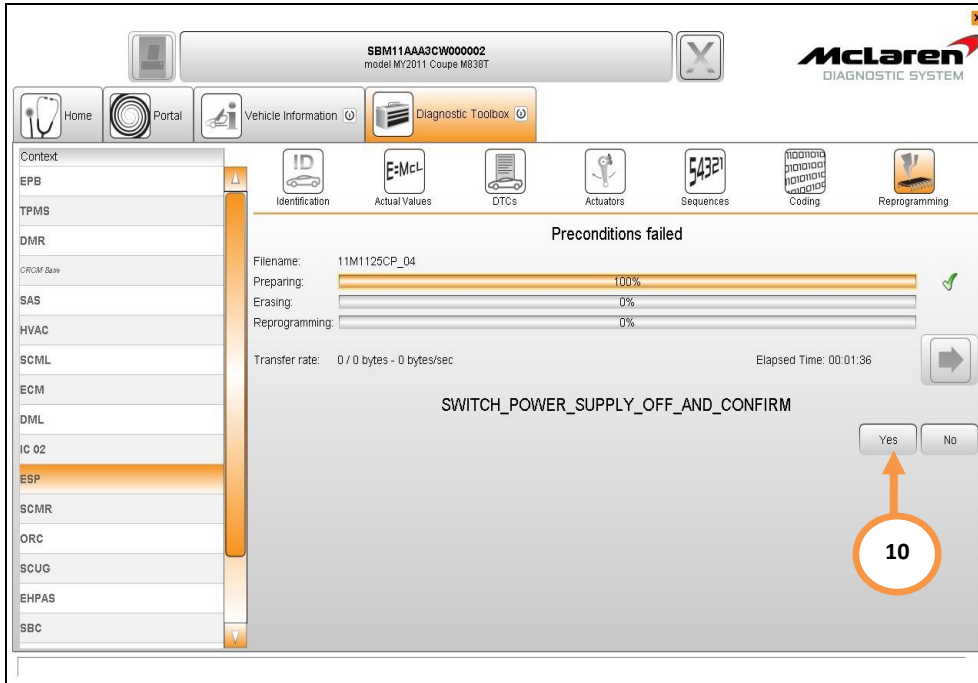
60. After the preparation phase of the download the system may inform the operator that the “Preconditions failed”. In this circumstance the ESP control unit will require a power cycle (8).



61. Disconnect the ESP connector (9) and wait for 5 seconds before reconnecting.



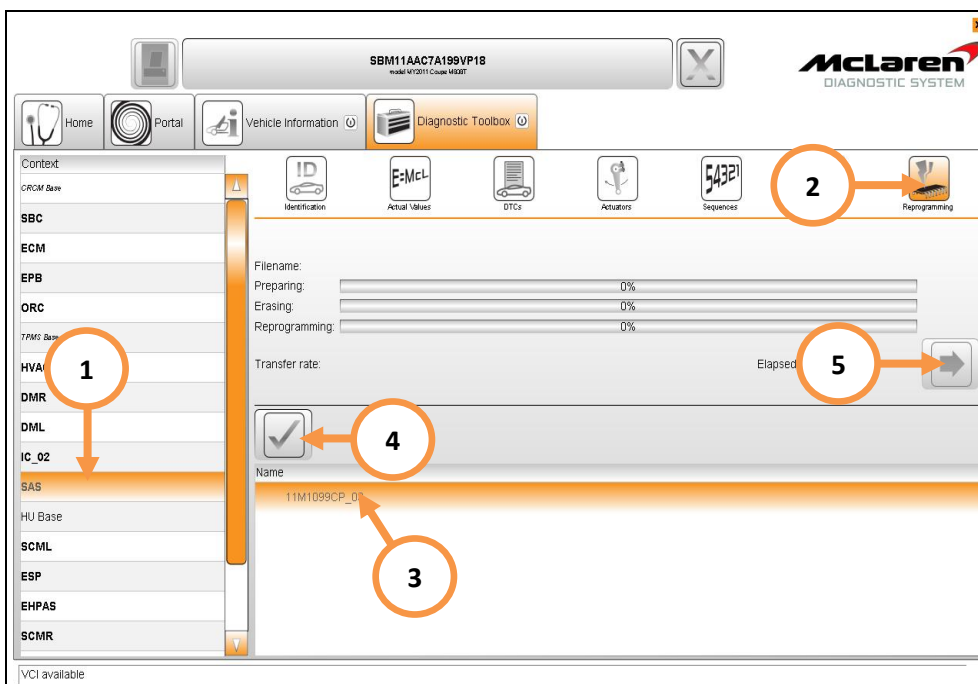
62. Press the YES button within 5 seconds of reconnecting the ESP connector in order to complete the software download (10).



SAS SOFTWARE UPDATE:

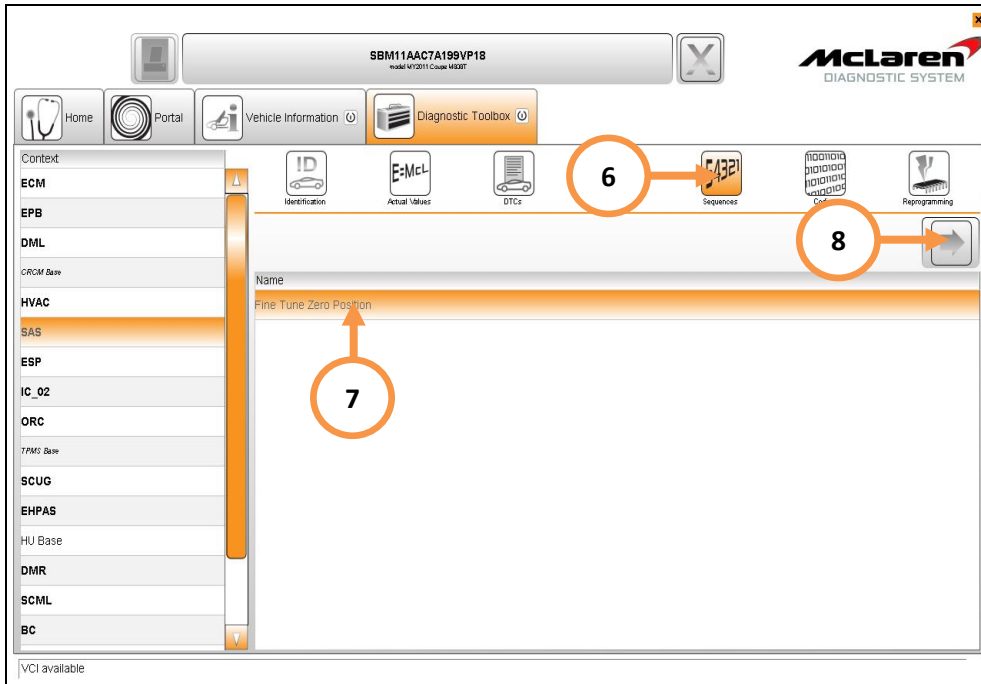
Care point: The Steering Angle Sensor (SAS) update is only required on vehicles that have not had campaign 11 M 034 or 11 M 036 previously carried out. Proceed to step 67 if not required.

63. Select SAS (1), then Reprogramming (2), select the software level 11M1099CP.04 (3) then proceed to the software download by selecting the tick button (4) followed by the arrow button (5). Select 'YES' to initiate programming.



Care point: Ensure that the front wheels are pointing in the straight ahead position before continuing.

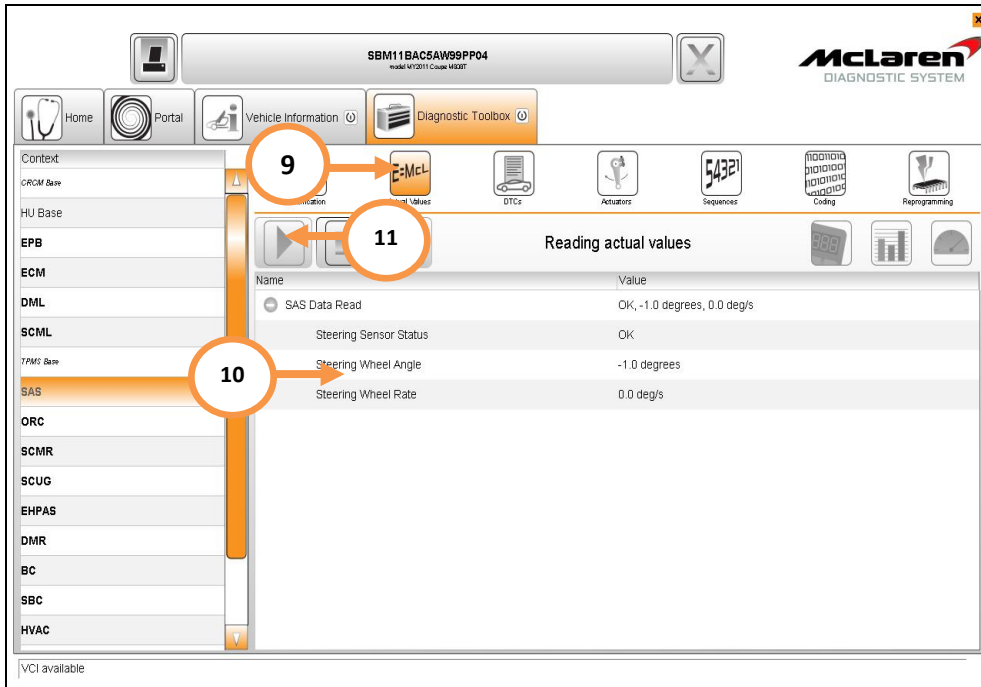
64. Once the software has been installed you will be required to fine tune the zero position. Within the SAS section select Sequences (6), select Fine Tune Zero Position (7), and then press the arrow button (8).



Care Point: HVAC DTC's U015500 CAN Missing IC and B1A3700 Kept Awake may not delete, these can be ignored.

65. Check for any stored Diagnostic Trouble Codes (DTC's) within the DTC's section. If there are any stored codes, proceed to clear them from the memory.

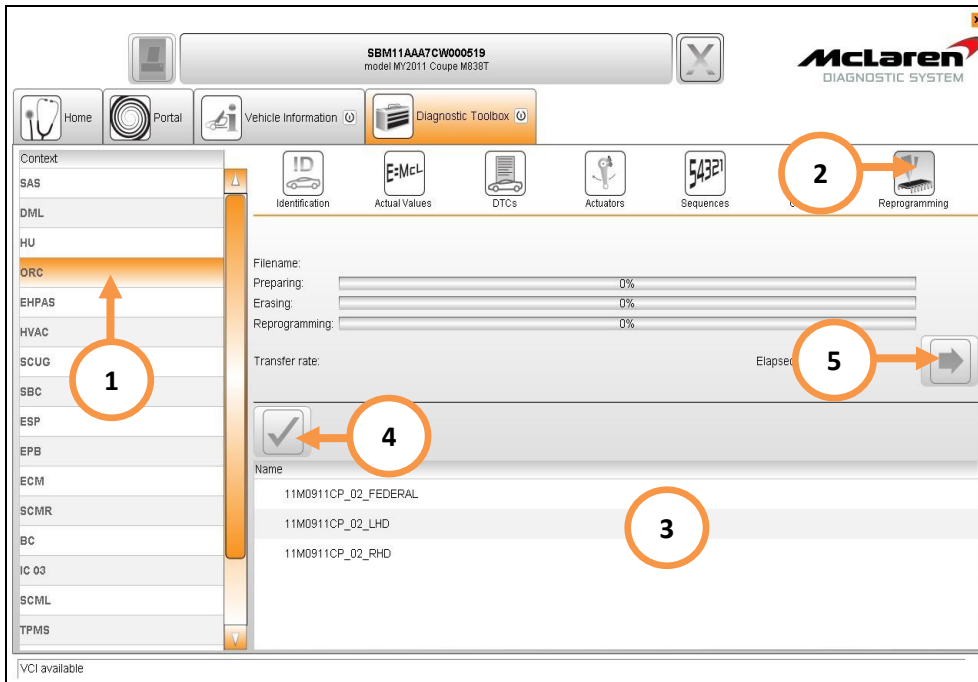
66. Start the engine, select Actual Values (9), followed by SAS Data Read (10), select the play button to access the required data screen (11), turn the steering wheel left and right to full lock. Check that the value reading is zero when the steering is central. Check the fault memory to identify if the DTC's have repeated.



Care Point: DTC B1BE14A Occupant Restraint Controller Car Config mismatch may be logged, if logged proceed to ORC software update, if the DTC is not logged proceed to step 68.

ORC SOFTWARE UPDATE

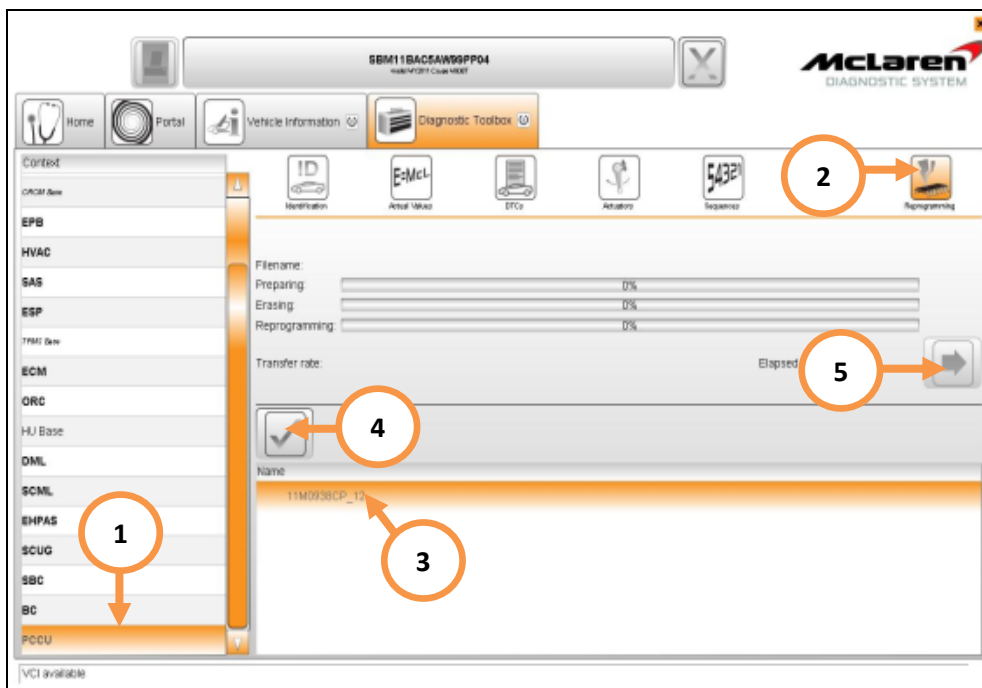
67. Select ORC (1), then Reprogramming (2), select the software variant applicable to the vehicle (3) then proceed to the software download by selecting the tick button (4), followed by the arrow button (5). Select 'YES' to initiate programming.



PCCU SOFTWARE UPDATE

Care point: During the downloading sequence the system may state preconditions or post conditions failed. These are erroneous messages and can be ignored. Only a programming failed message should be noted as a legitimate failure.

68. Select PCCU (1), then Reprogramming (2), select the software variant applicable to your market (3) (by referring to the software table on page 2), then proceed to the software download by selecting the tick button (4), followed by the arrow button (5). Select 'YES' to initiate programming.

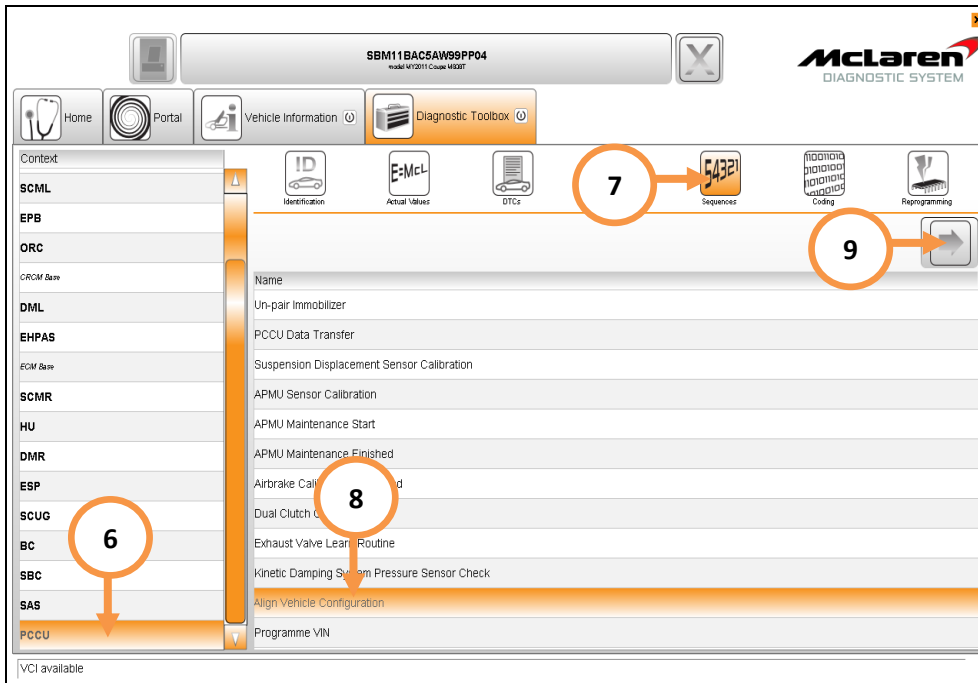


Care Point: Once the PCCU has been updated the new software level installed will display a global software level of 11M0938CP.19.

Care Point: HVAC DTC's U015500 CAN Missing IC and B1A3700 Kept Awake may not delete these can be ignored.

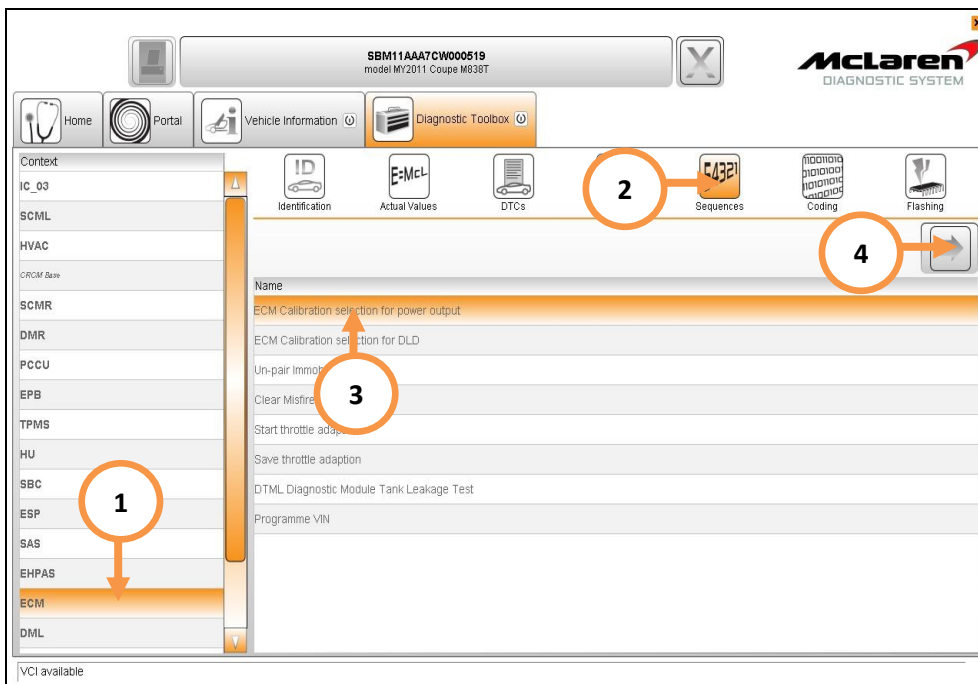
69. Cycle the ignition (on off on) and wait for 30 seconds. Place the vehicle into a sleep mode, and then establish the vehicle back into ignition state 5. Clear any DTC's before continuing on with the procedure.

70. Select PCCU (6), then Sequences (7), select Align Vehicle Configuration (8), followed by the arrow key (9).

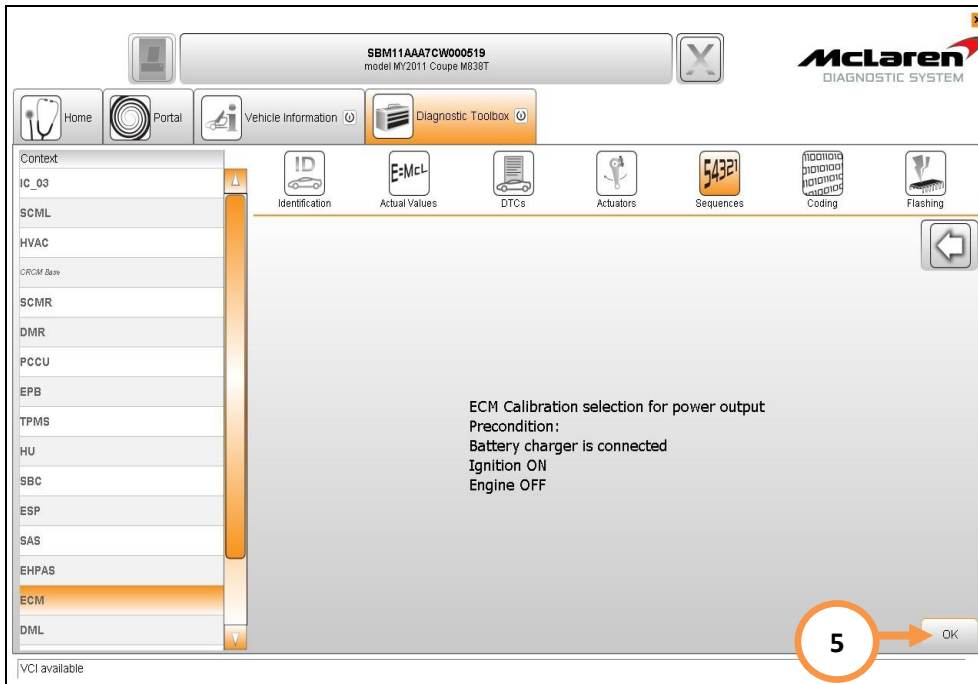


ECM SOFTWARE UPDATE

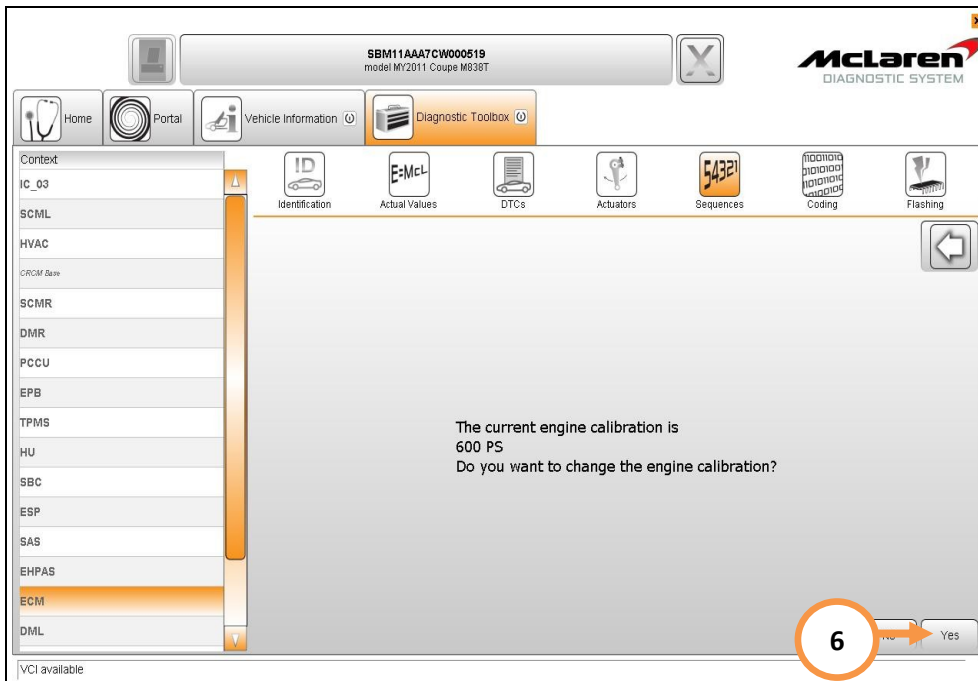
71. Select ECM (1), then Sequences (2), select ECM Calibration selection for power output (3), followed by the arrow key (4).



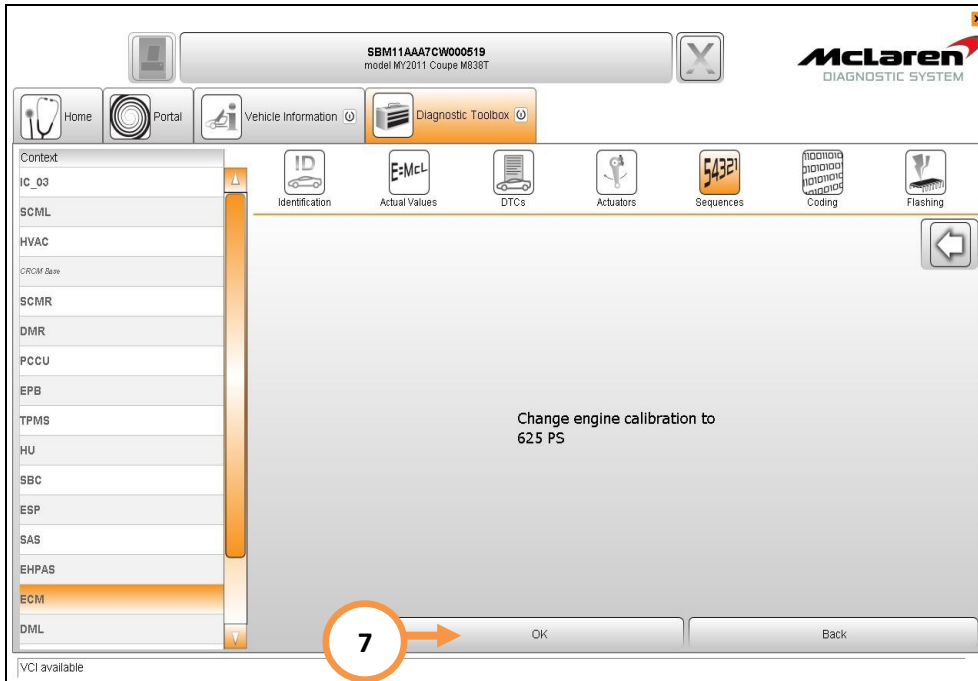
72. Ensure the preconditions are met and then select OK (5).



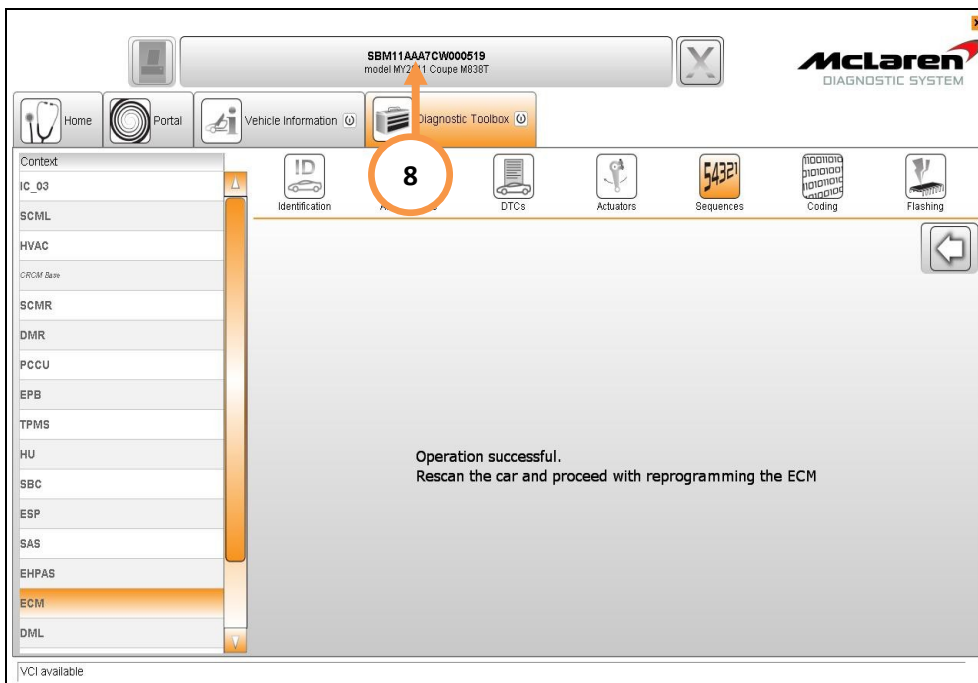
73. The next screen will advise the current engine calibration. Select Yes to proceed (6).



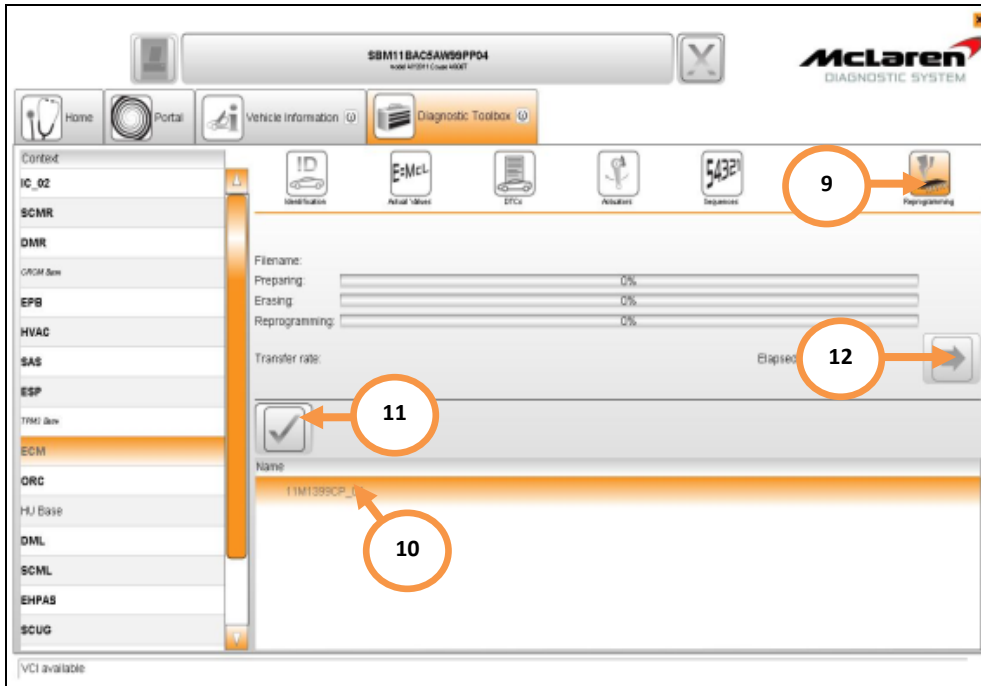
74. Select OK (7).



75. Operation successful will be displayed; select Rescan the car to proceed (8).



76. Select ECM Reprogramming (9); select the software variant applicable to your market (10) (by referring to the software table on page 2), then proceed to the software download by selecting the tick (11) followed by the arrow button (12). Select 'Yes' to initiate programming.

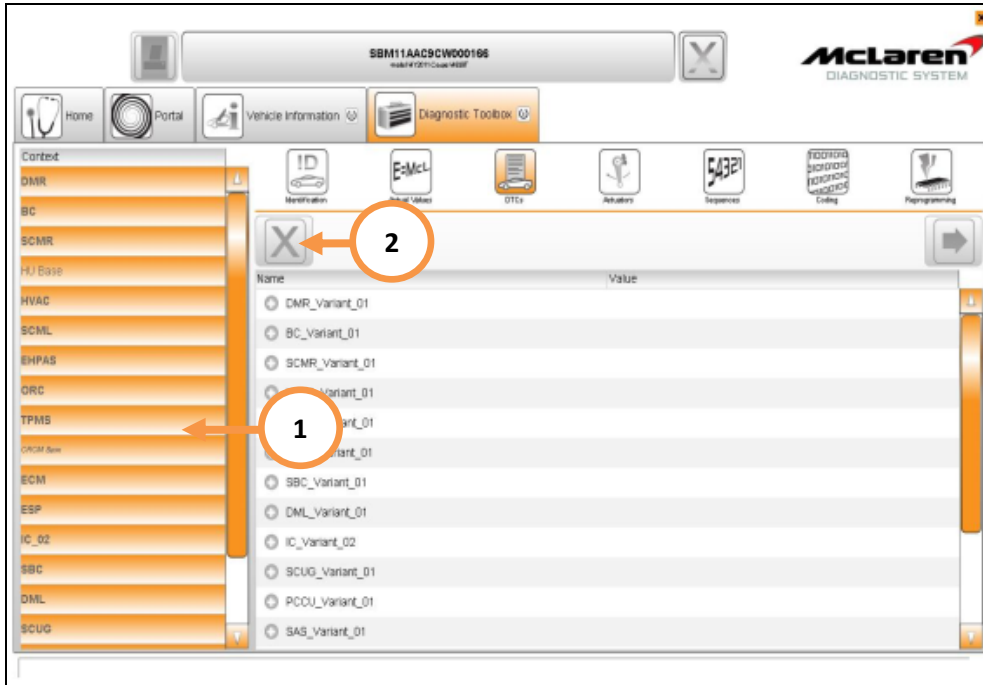


Care point: ECM DTC's must only be cleared in ignition state 5.

77. Cycle the ignition (on off on) and wait for 30 seconds. Place the vehicle into a sleep mode, and then establish the vehicle back into ignition state 5.

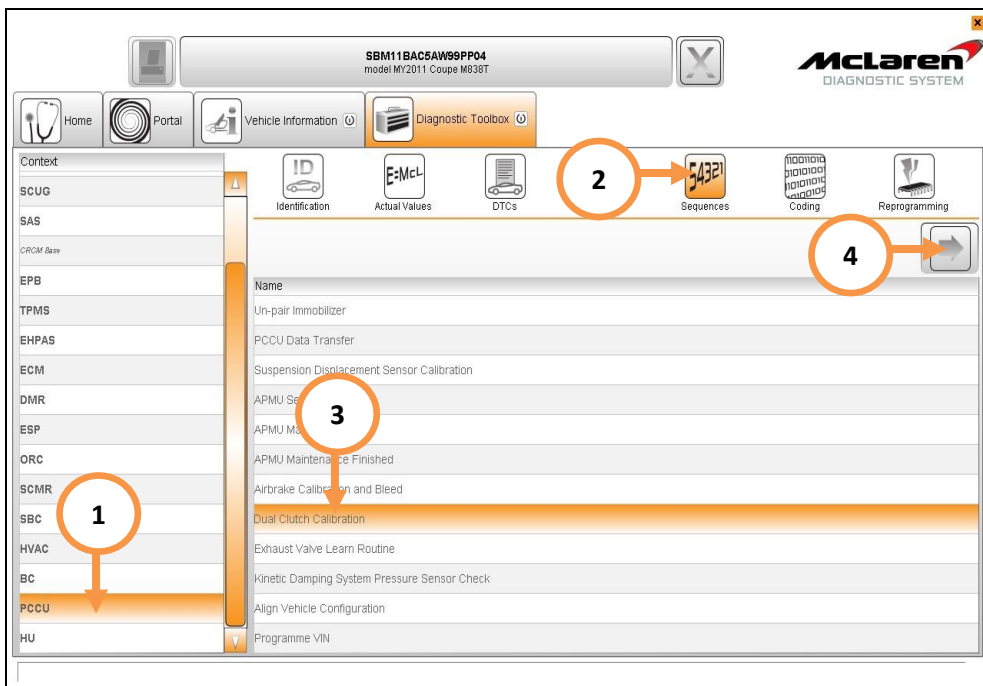
Care Point: HVAC DTC's U015500 CAN Missing IC and B1A3700 Kept Awake may not delete these can be ignored.

78. Select and highlight all items within the context fields (1) and perform a global clear of all DTC's (2).

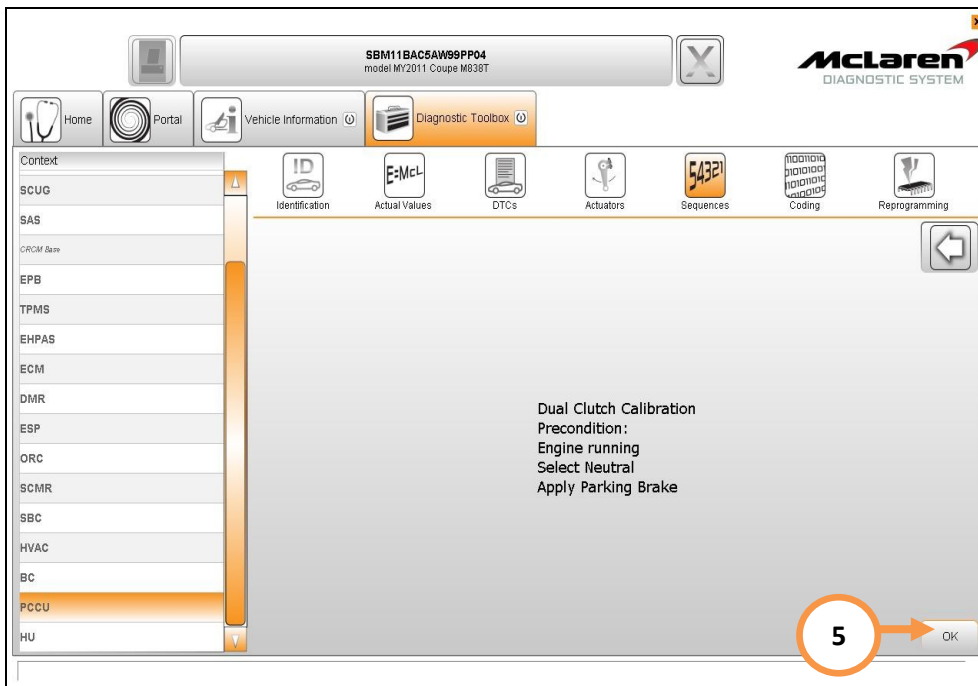


79. Press the stop/start button with the brake pedal depressed to start the engine and allow to idle.

80. Select PCCU (1), then Sequences (2), select Dual Clutch Calibration (3), followed by the arrow key (4).

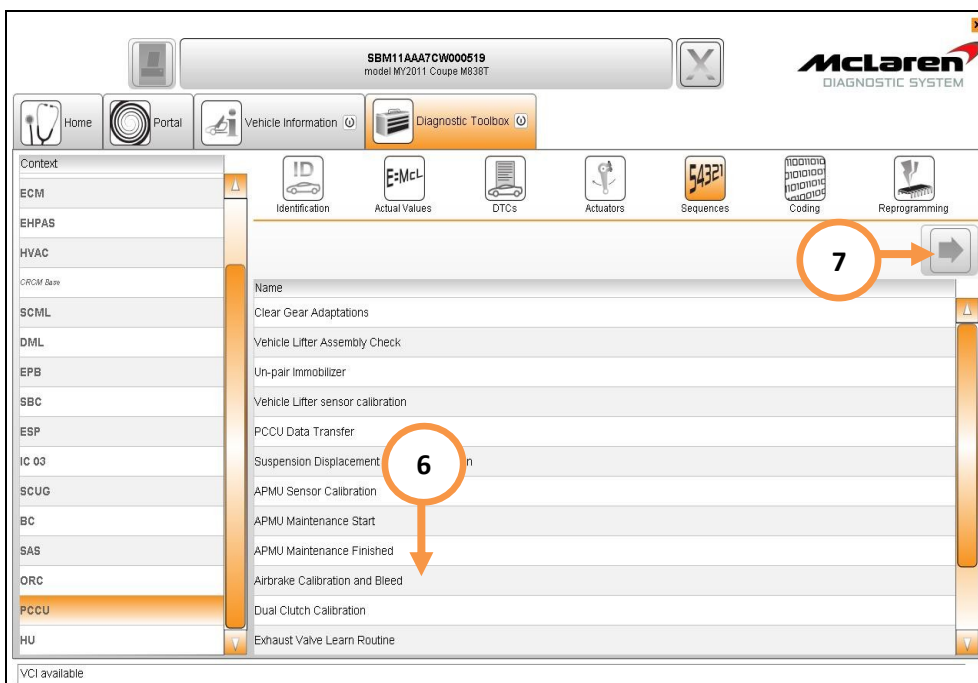


81. Ensure the preconditions are met and then select Ok (5).



82. Dual Clutch Calibration will now be performed.

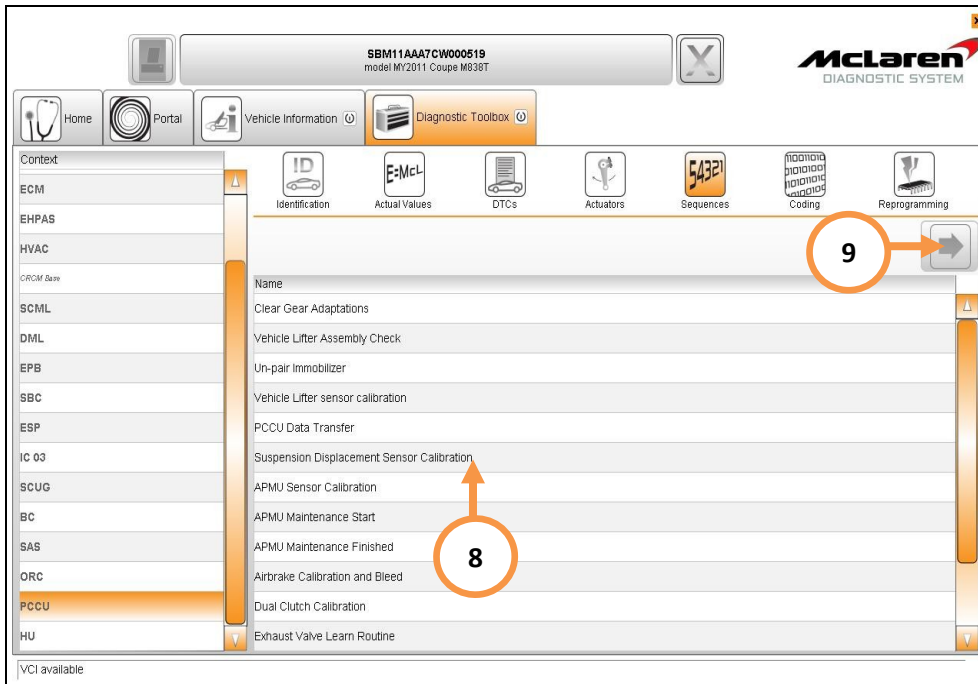
83. Select Airbrake Calibration and Bleed (6), followed by the arrow key (7).



84. Airbrake Calibration and Bleed will now be performed.

Care Point: The vehicle must have the suspension in the full droop position to perform Suspension Displacement Sensor Calibration.

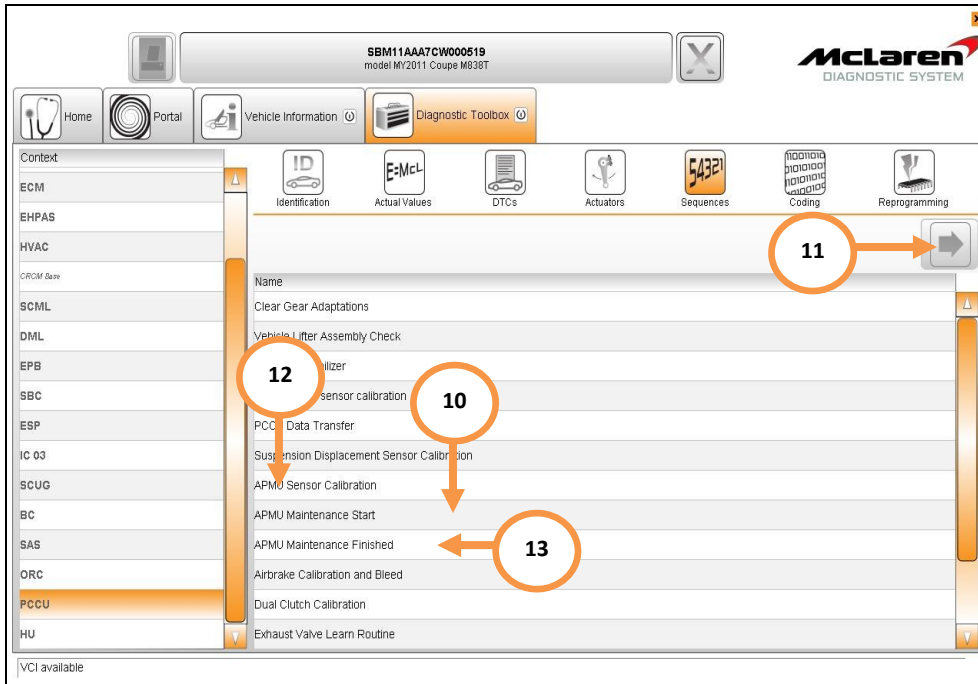
85. Select Suspension Displacement Sensor Calibration (8), followed by the arrow key (9) and then refer to Service Information Bulletin 11 B 007.



86. Suspension Displacement Sensor Calibration will now be performed.

Care point: The vehicle must have the suspension in the full droop position whilst the APMU sensor calibration is performed.

87. Select APMU maintenance Start (10), followed by the arrow key (11).



88. The APMU will now be put into maintenance mode.

89. Select APMU Sensor Calibration (12), followed by the arrow key (11).

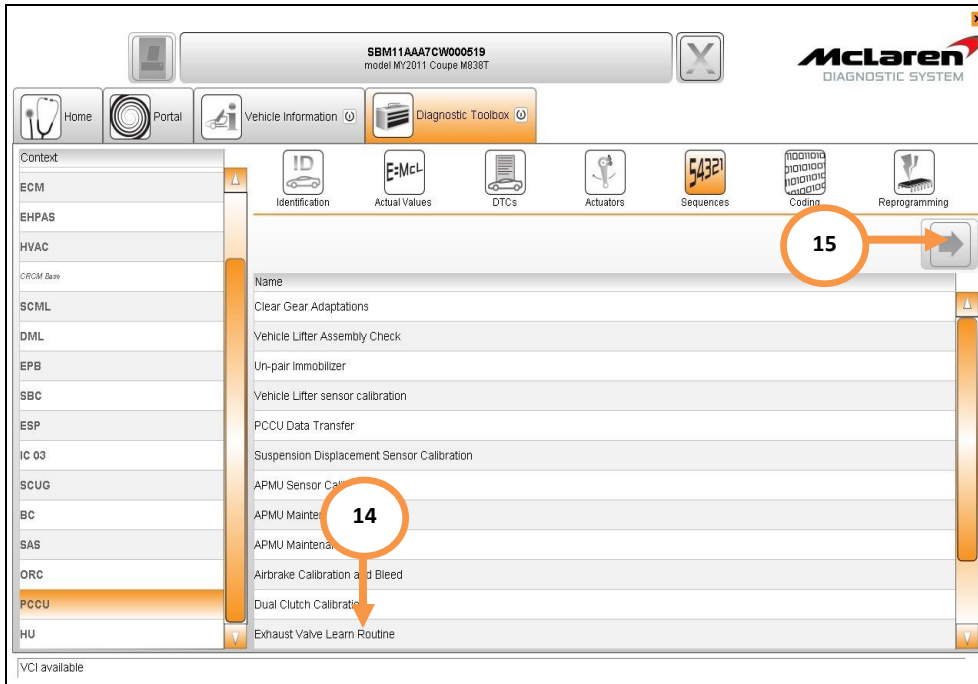
90. The APMU Sensor Calibration will now be performed.

91. Select APMU maintenance Finished (13), followed by the arrow key (11).

92. The APMU will now be taken out from maintenance mode.

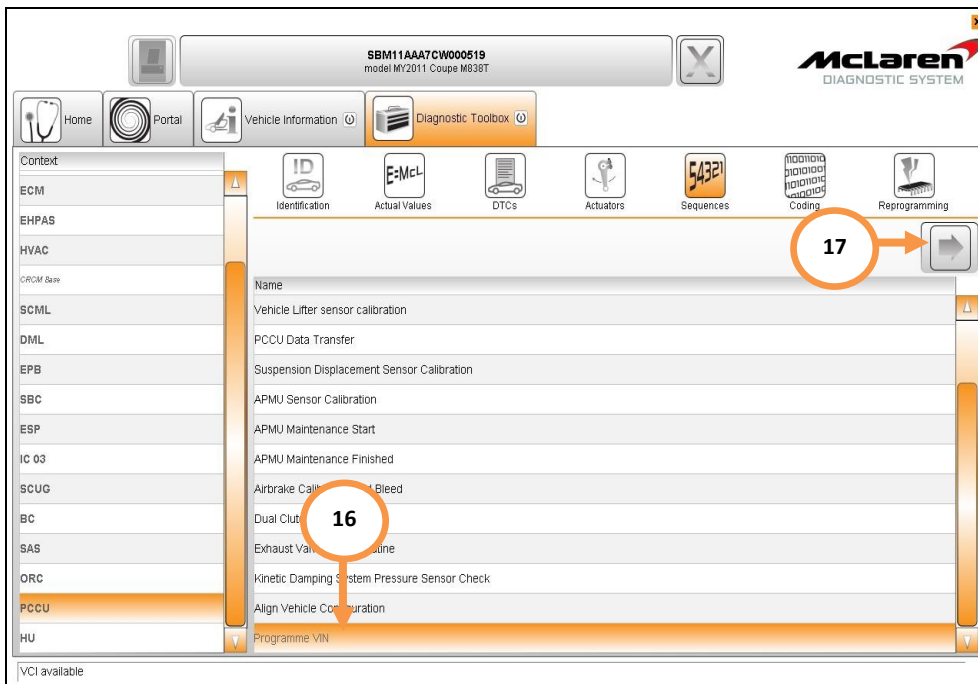
Care Point: The Exhaust Valve Learn Routine is only required on vehicles that are fitted with the exhaust valves.

93. Select the Exhaust Valve Learn Routine (14), followed by the arrow key (15).



94. The exhaust valve learn routine will now be performed.

95. Select Programme VIN (16), followed by the arrow button to proceed (17).

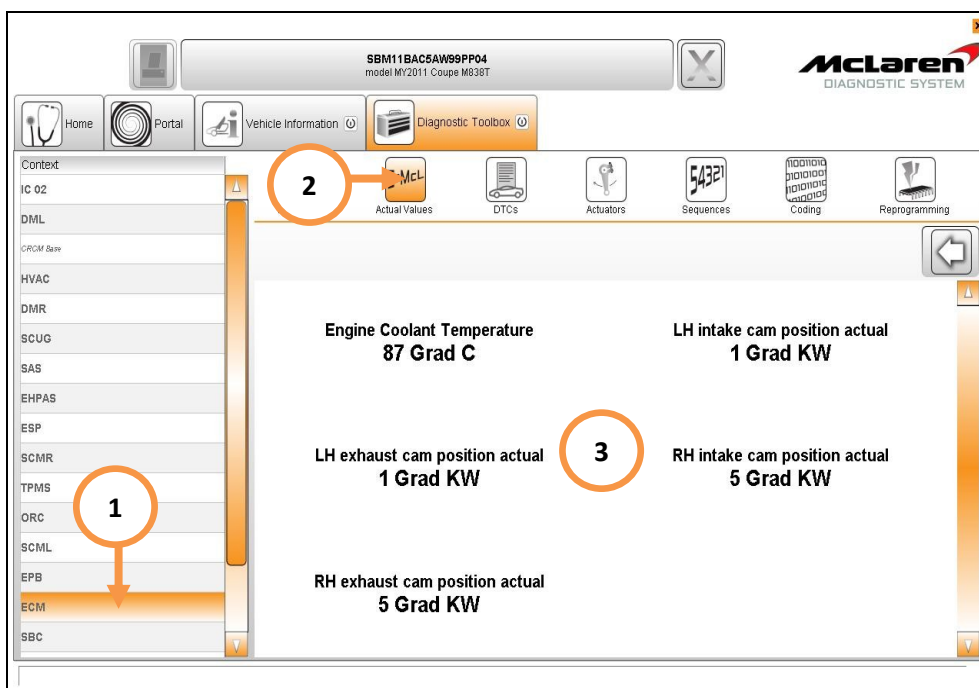


96. Press the stop/start button with the brake pedal depressed to start the engine and allow to idle until fully warm.

Care point: The Air conditioning must be switched on and the engine coolant temperature must be above 80 degrees C before proceeding with the camshaft adaption procedure.

97. Select ECM (1), then Actual Values (2), select the following values as per the screenshot below (3), then select the play button to access the required data screen.

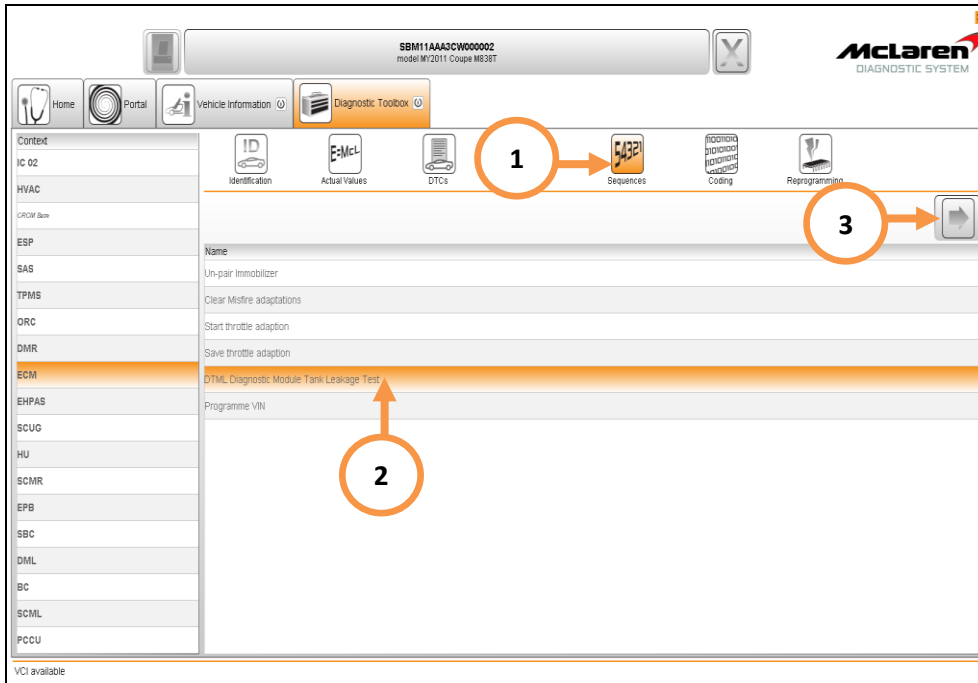
98. The inlet and exhaust camshaft values should be between 1 and 4, both values will fluctuate slightly. If all values are correct no further action is required proceed to step 100. If any values are incorrect proceed to step 99 to carry out the camshaft adaption.



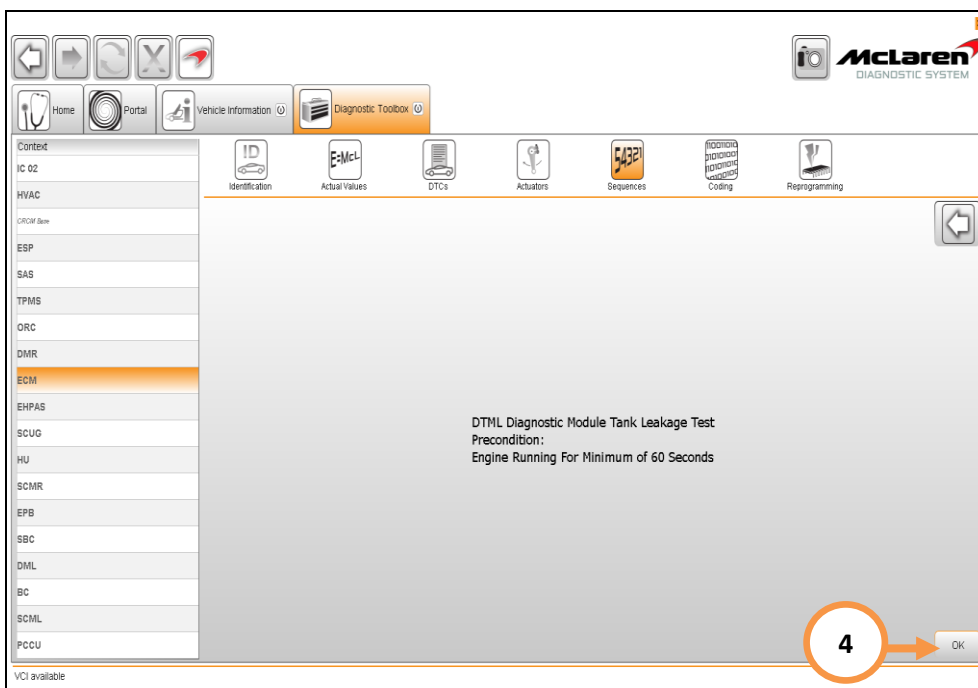
99. Switch the engine off, wait 30 seconds, restart the engine and recheck the values. Repeat this procedure until the target values are achieved.

Care point: The fuel level must be above $\frac{1}{4}$ before you proceed to the Diagnostic Module Leakage Test (DMTL).

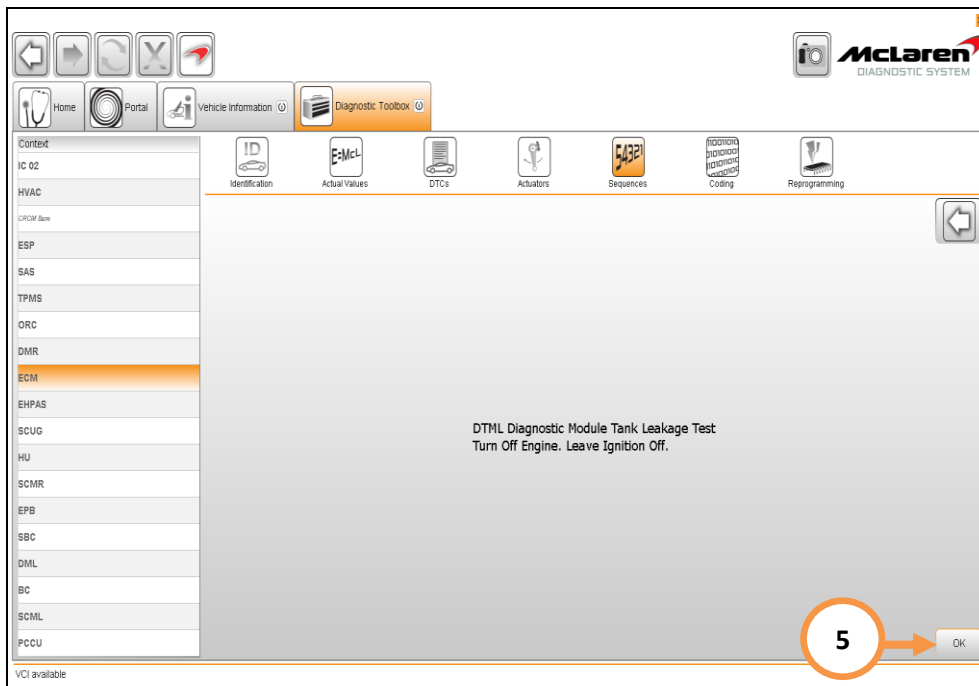
100. Select Sequences (1), then DMTL-Diagnostic Module Leakage Test (2), followed by the arrow button to proceed (3).



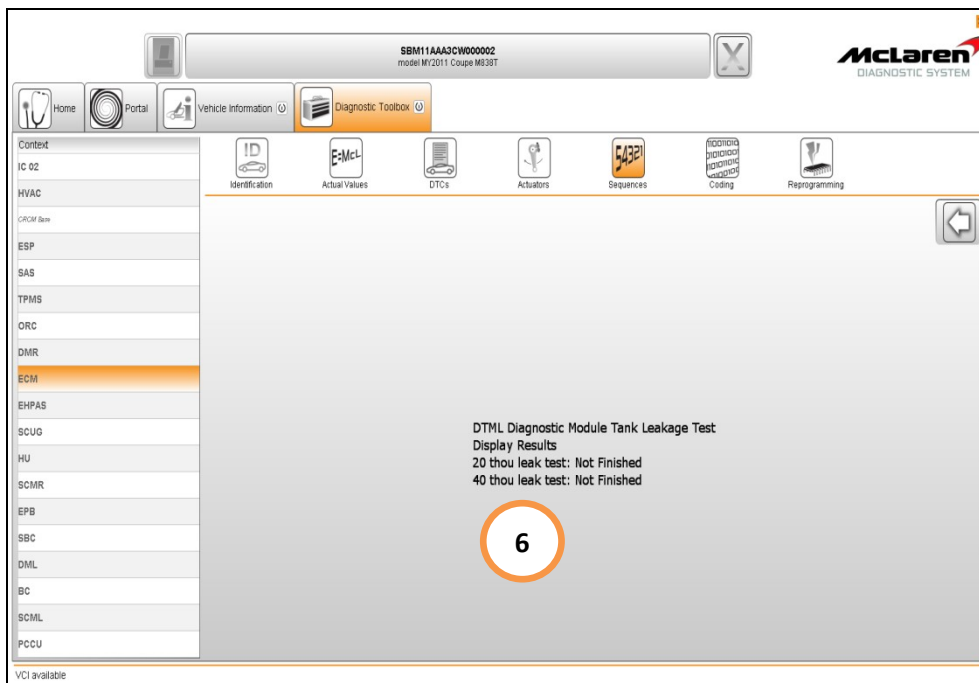
101. Follow the preconditions and run the engine for 60 seconds and then select Ok (4).



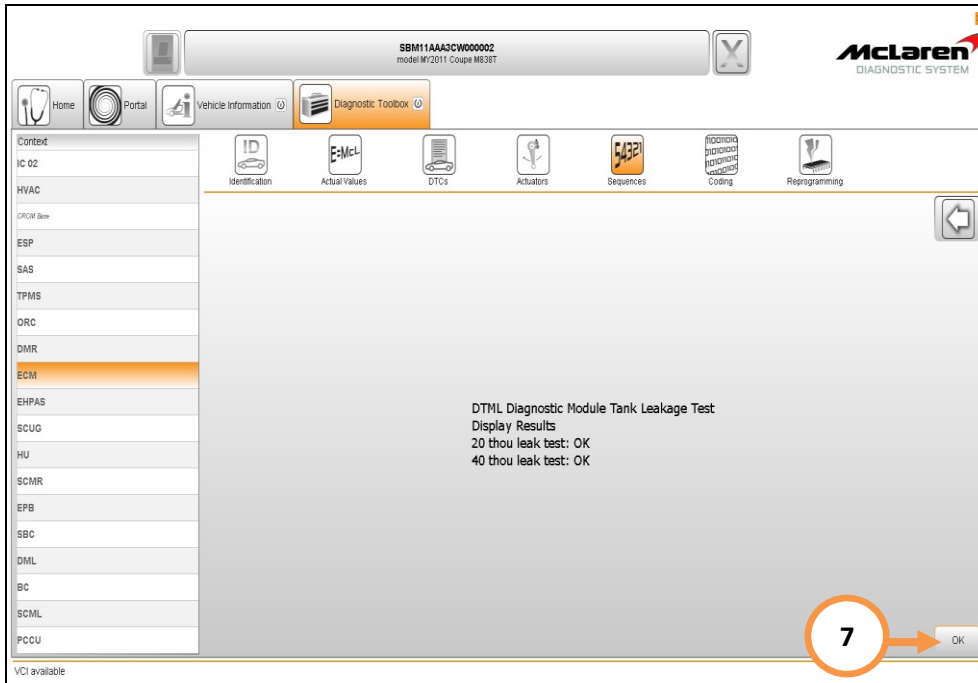
102. Follow the instructions on the next screen and then select Ok (5).



103. The DMTL test will now run and can take up to six minutes to complete the 20 thou and 40 thou leak test (6).



104. When the 20 thou and 40 thou leak tests have completed the screen below will be displayed, then select Ok (7).



105. End the current MDS session to allow session feedback to be sent and stored at McLaren.

IRIS UPDATE

Care point: IRIS software downloads requires the vehicle to be in ignition state 5.

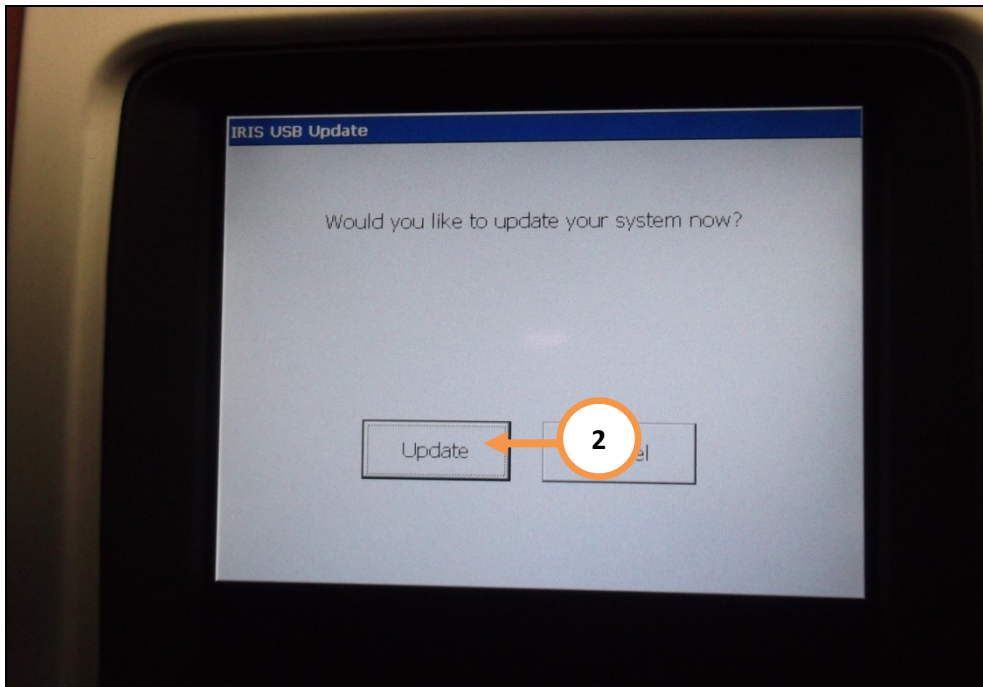
106. Ensure the IRIS is powered up to the home screen and the radio is off.

Care point: The USB drive must be engaged with the gold contact points facing downwards.

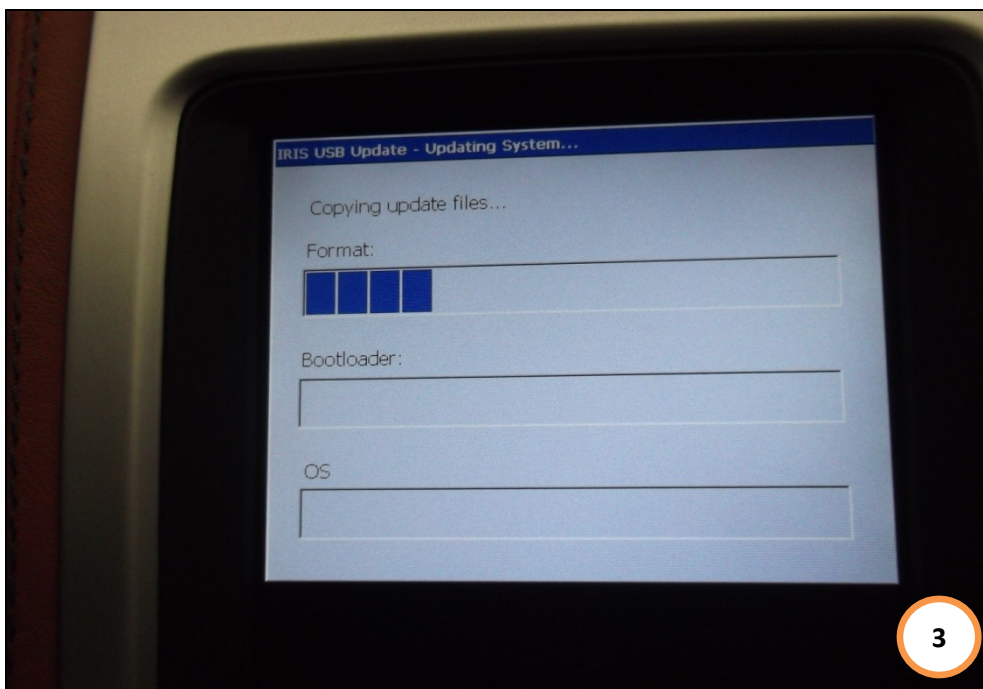
107. Insert the USB drive 11M2518CP.08 into the USB socket (1), then press and hold the centre IRIS button for approximately five seconds until the McLaren logo screen appears. This will trigger the software download process..



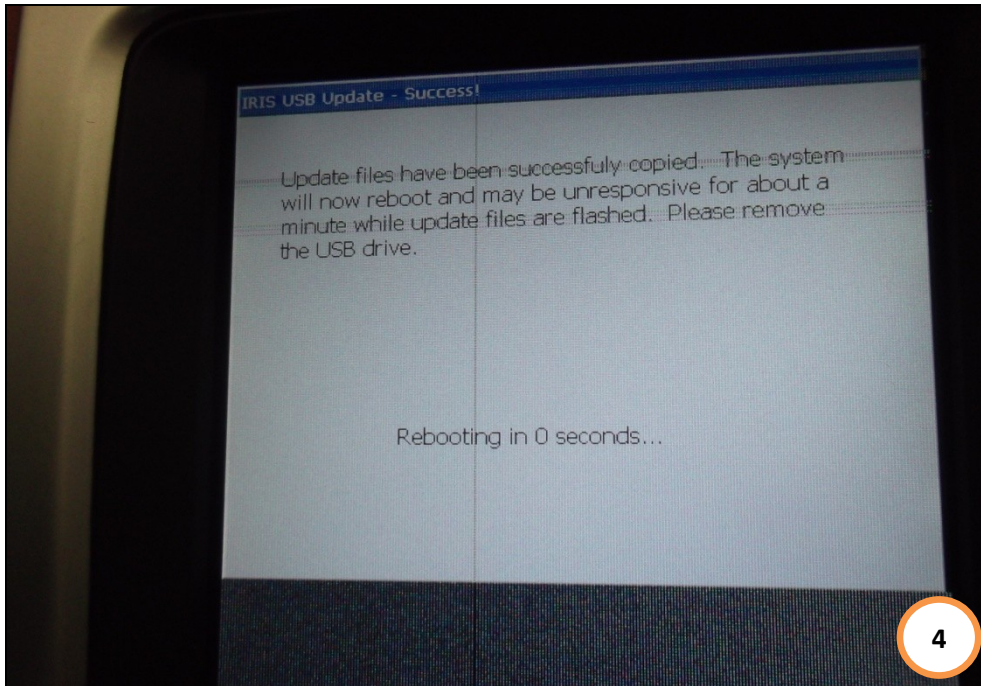
108. The following screen will be displayed, select Update (2).



109. The following software download screen will be displayed whilst the update is being carried out (3).

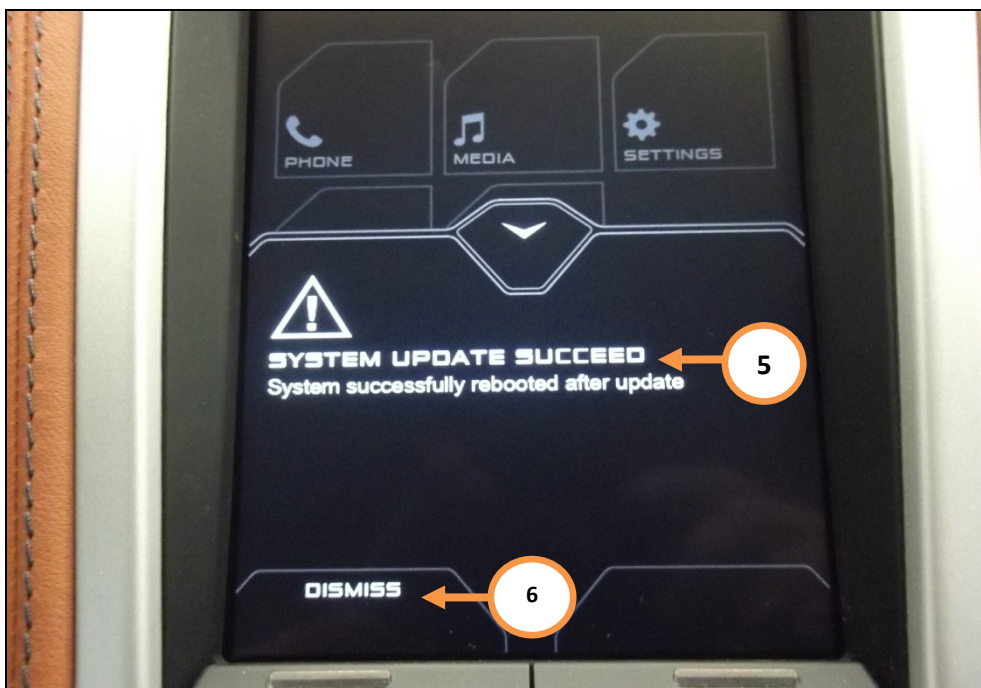


110. Once the update has completed the following screen will be displayed (4), remove the USB drive.

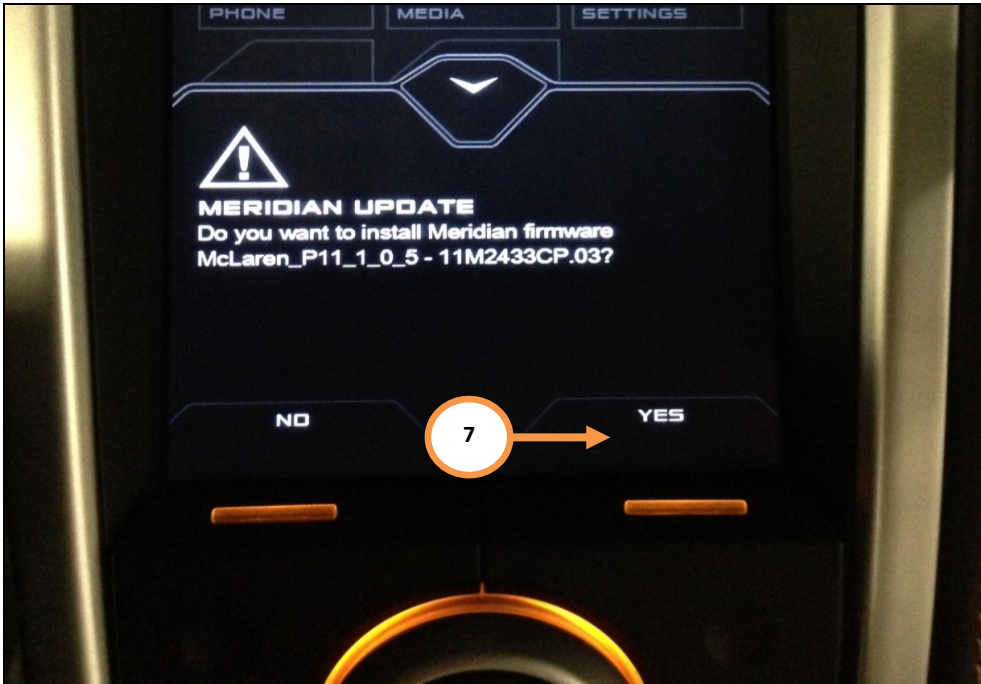


Care Point: The system reboot can take up to three minutes and during this period the screen may appear blank or contain lines.

111. Once the reboot has completed the following screen will appear (5), select Dismiss (6)

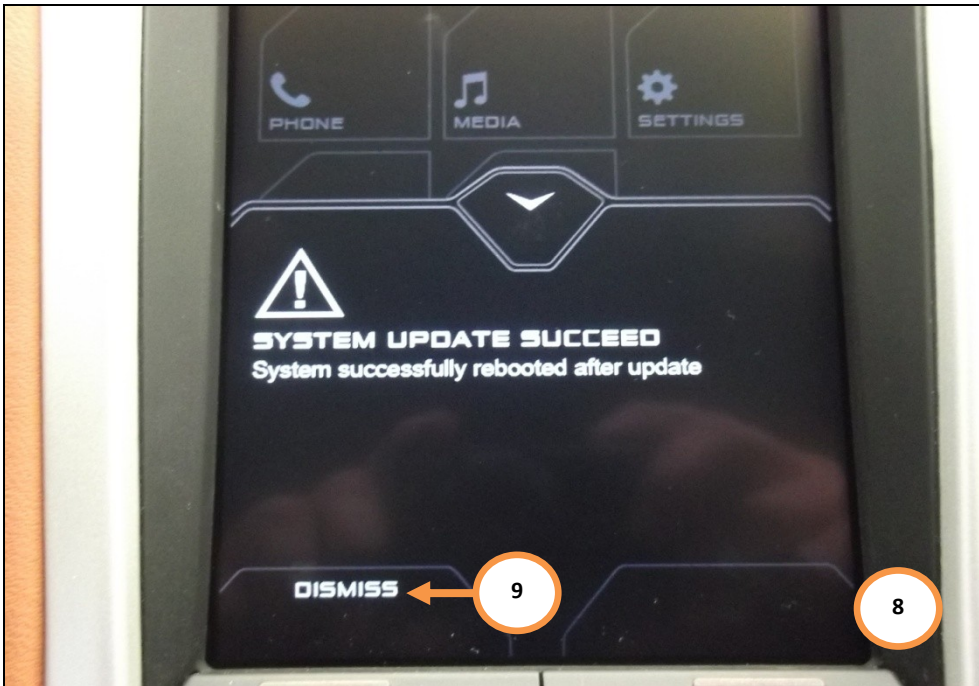


112. Press and hold the centre IRIS button for approximately five seconds until the McLaren logo screen appears to reset the unit and return normal functionality.
113. Insert the USB drive 11M2433CP.03 in to the USB socket and the following screen will appear, select Yes (7).



Care Point: The system reboot can take up to three minutes and during this period the screen may appear blank or contain lines.

114. Once the update has completed and the unit has rebooted, the following screen will be displayed (8), select Dismiss (9) and remove the USB drive.



115. Switch the Ignition off and wait until the Start/Stop button illumination has extinguished, wait a further one minute and then establish the vehicle into ignition state 5 before following the next steps.

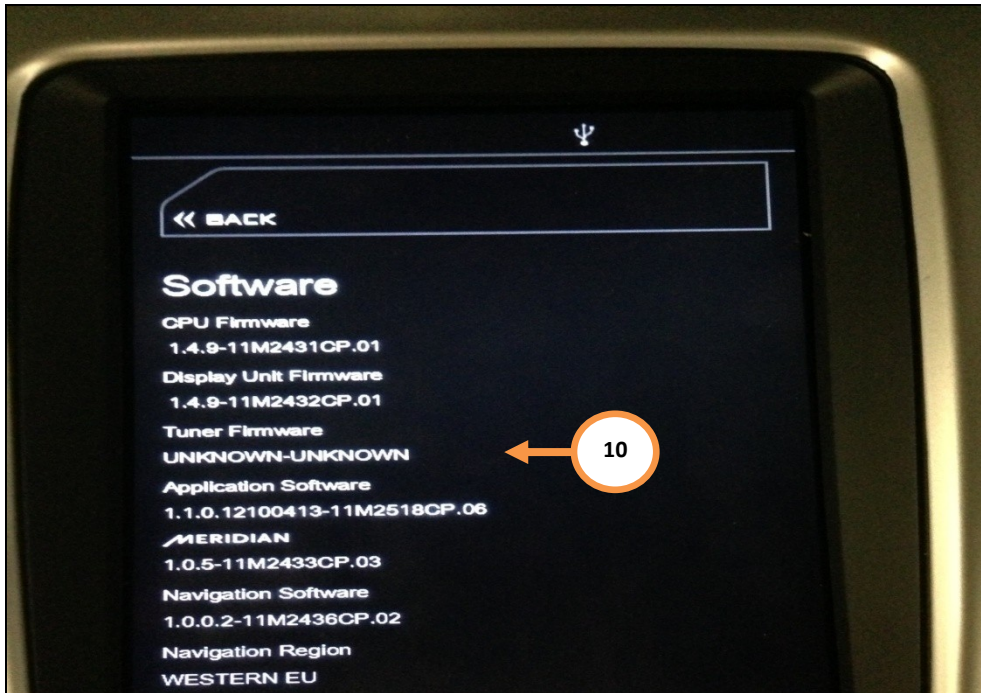
Care Point: Different level of Tuners will be supplied to dealers. Early level Tuners will require software installation, later level Tuners **do not**. The different levels of Tuners can be seen in the pictures below and should have been noted which level was fitted during initial installation.





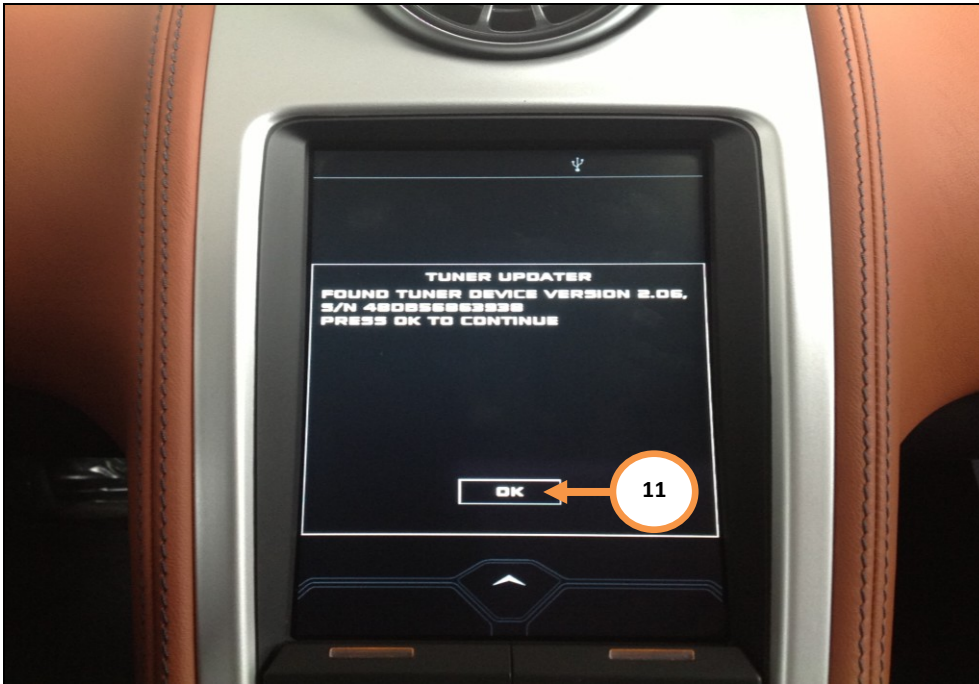
Care point: If the vehicle has been fitted with an early level Tuner, read steps 123 to 125 and then return to step 115 before you proceed with software installation. If a later level Tuner is installed proceed to step 127.

116. Proceed to Home/Settings/About/Software and check the Tuner Firmware is displayed and does not display UNKNOWN-UNKNOWN(10). If Ok proceed to step 123, If UNKNOWN-UNKNOWN is displayed proceed to step 117.

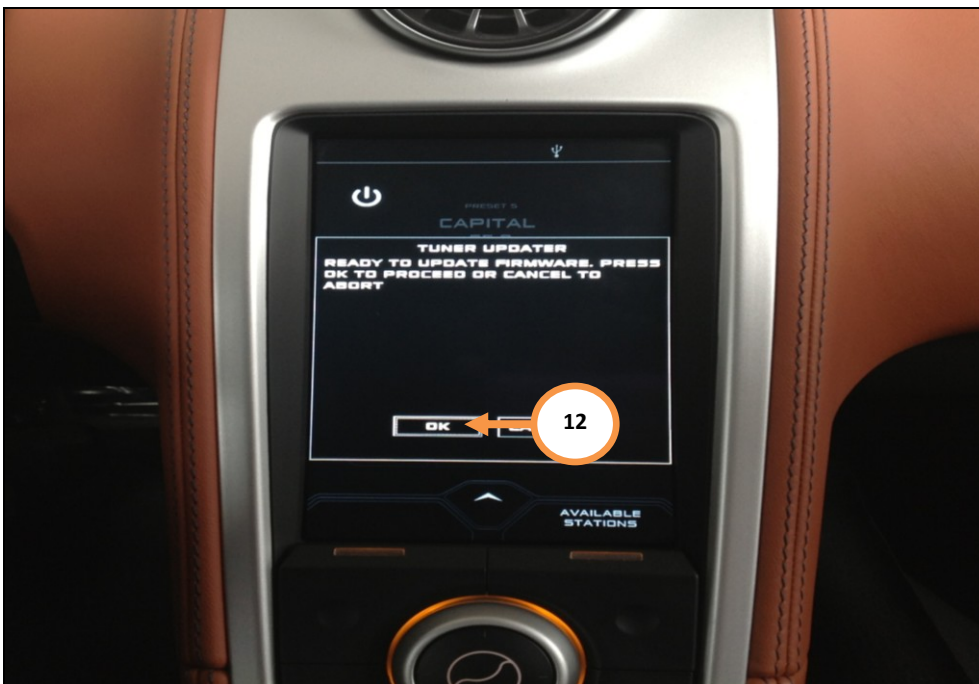


117. Switch the Ignition off and wait until the Start/Stop button illumination has extinguished, wait one minute and then establish the vehicle into ignition state 5 before following the next steps.
118. Re-check Tuner firmware level if UNKNOWN-UNKNOWN is no longer displayed proceed to step 123, if still displayed proceed to the next step.
119. Press and hold the centre IRIS button for approximately five seconds until the McLaren logo screen appears to reset the unit and the normal functionality will return.
120. Re-check the Tuner firmware level if UNKNOWN-UNKNOWN is no longer displayed proceed to step 123, if still displayed proceed to the next step.
121. Switch the Ignition off and wait until the Start/Stop button illumination has extinguished, wait two minutes and then establish the vehicle into ignition state 5 before following the next steps.
122. Re-check Tuner firmware level if UNKNOWN-UNKNOWN is no longer displayed proceed to step 123, if still displayed contact your RAM or Technical Support for further advice..

123. Insert the USB drive 11M2531CP.03 in to the USB socket, the following screen will appear, select Ok (11).



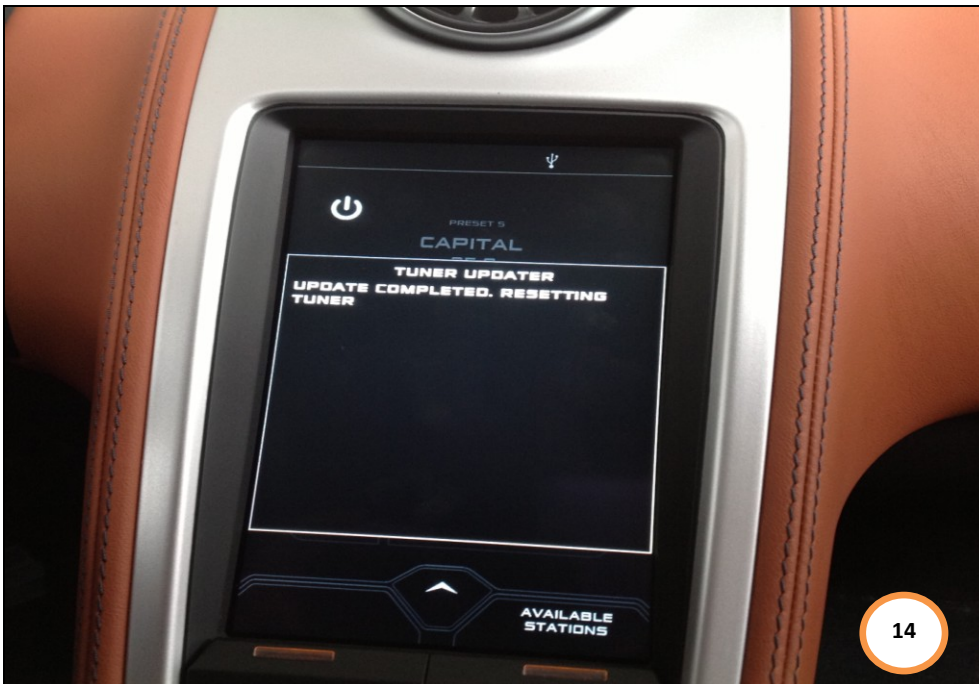
124. The following screen will appear, select Ok (12).



125. Once the update has completed the following screen will be displayed, remove the USB drive and select Ok (13).

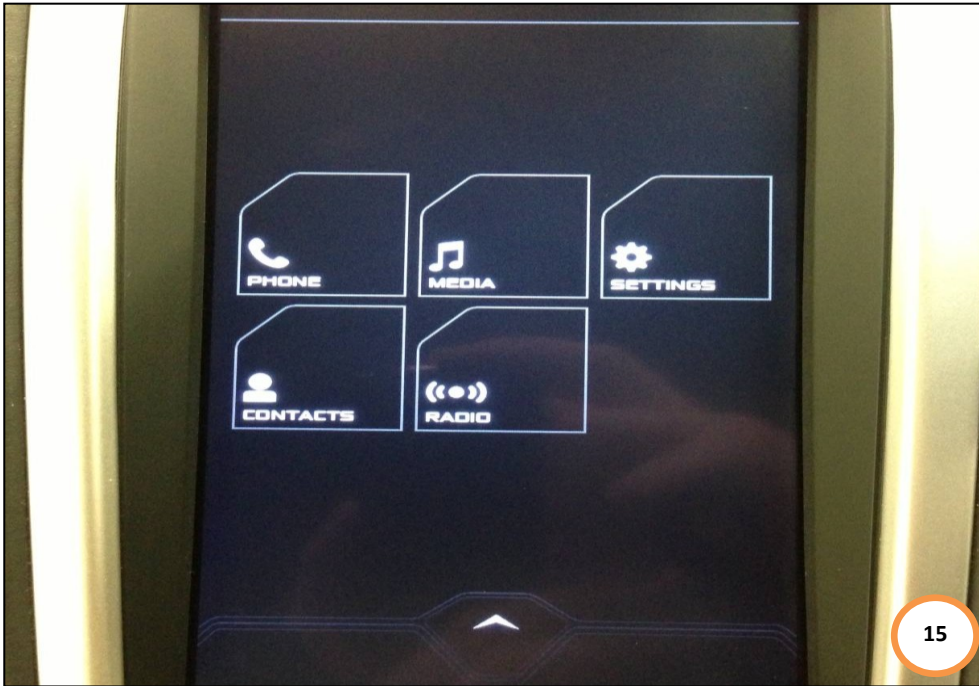


126. The following screen will be displayed (13) and system will revert to the radio display after the tuner has reset (14).



127. EMMC Formatting and Navigation software installation is only required on vehicles built with Meridian Surround Sound, if not required carry out steps 127 to 129 and then proceed to step 139.

128. Select "SETTINGS" on the home screen to enter the settings menu (15).



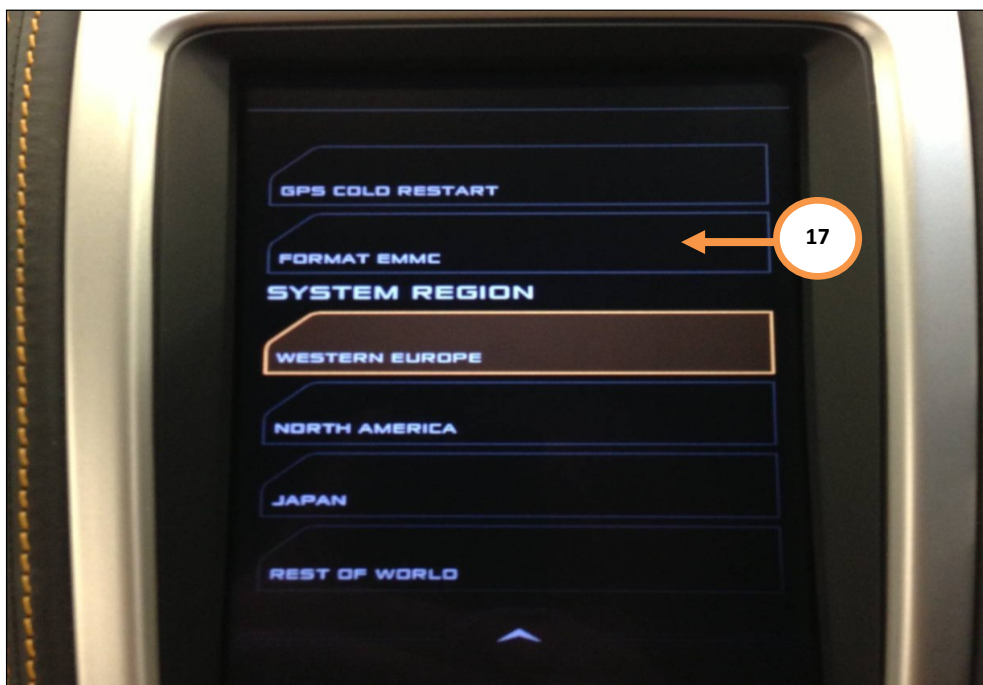
129. Hold down the IRIS mute button and perform the following actions by turning the volume control ring:

- Right two notches on volume control
- Left one notch on volume control
- Right three notches on volume control
- Left two notches on volume control

130. An additional option “DEALER SETTINGS” will appear (16); select this option to enter the dealer settings menu.



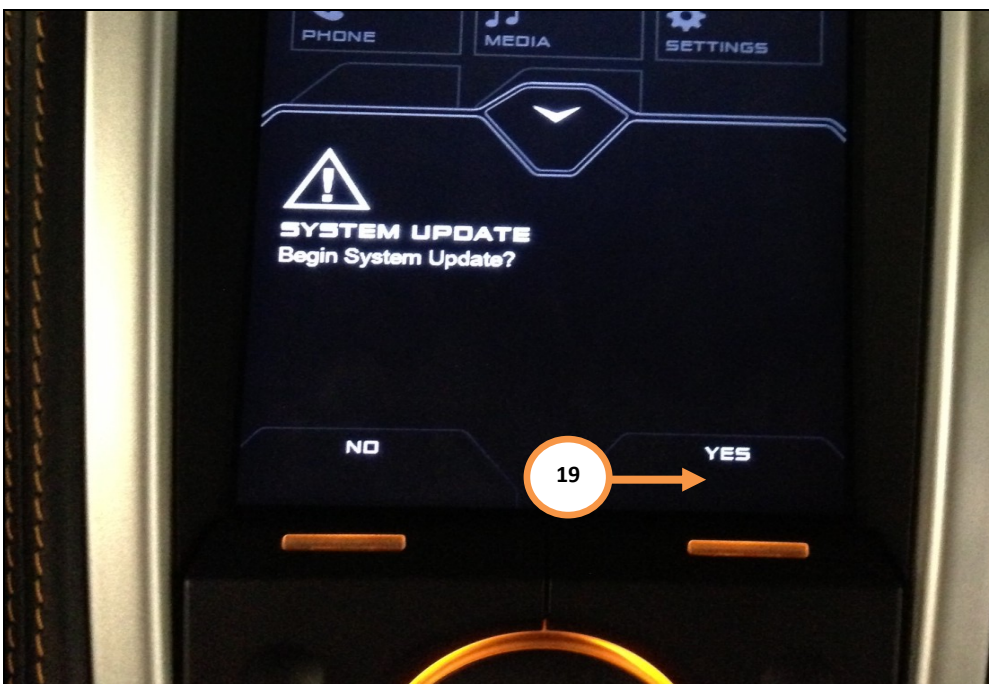
131. Select “FORMAT EMMC” (17).



132. EMMC Formatting in progress will be displayed (18).



133. When the EMCC pop up disappears the formatting has finished.
134. Press and hold the centre IRIS button for approximately five seconds until the McLaren logo screen appears to reset the unit and to return normal functionality.
135. Insert the USB drive that contains the Satellite Navigation software variant applicable to your market (by referring to the software table on page 2), select Yes,(19)

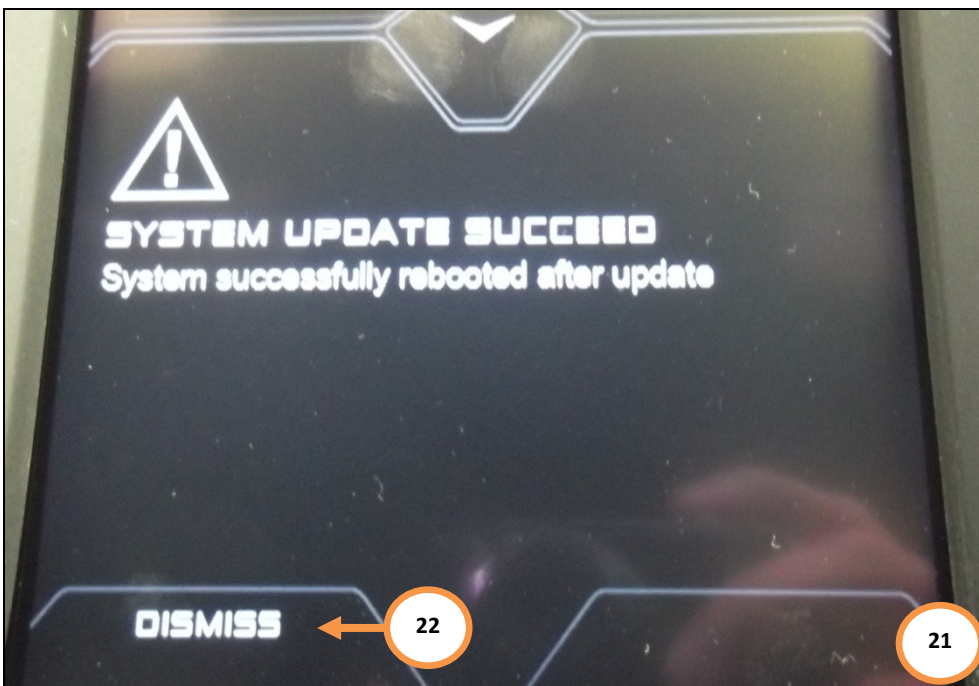


136. The following screen will be displayed (20).

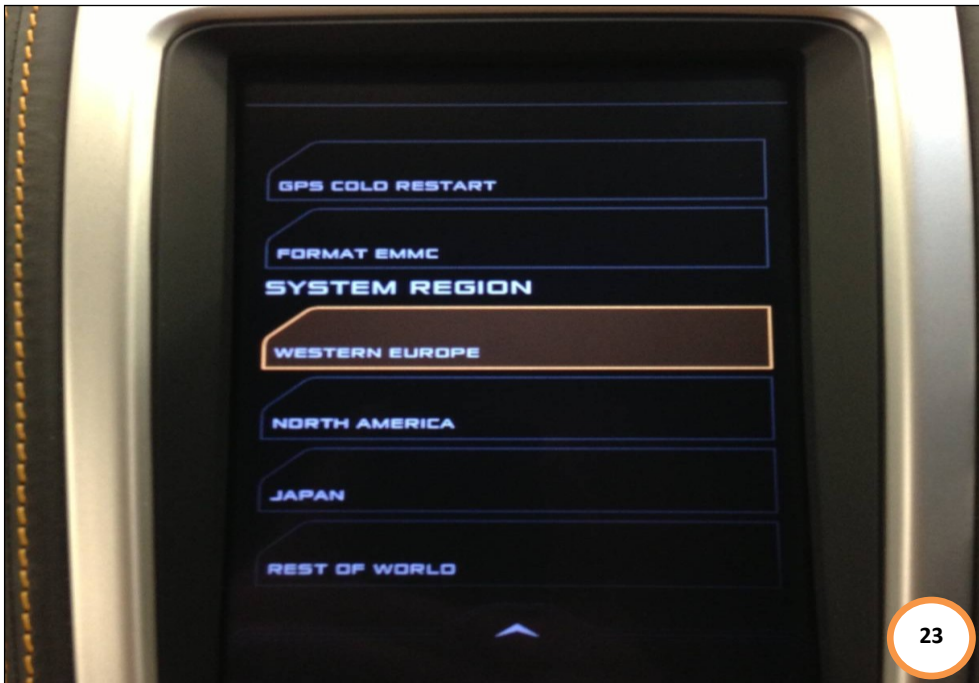


Care Point: The system reboot can take up to three minutes and during this period the screen may appear blank or contain lines.

137. Once the update has completed and rebooted, the following screen will be displayed (21), select Dismiss (22) and remove the USB drive.



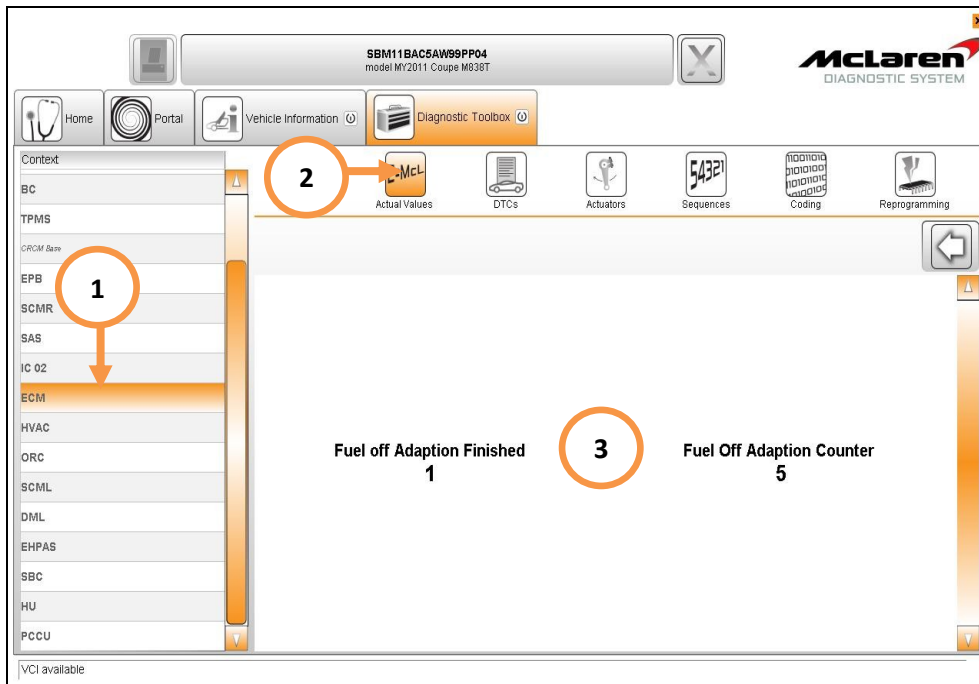
138. Press and hold the centre IRIS button for approximately five seconds until the McLaren logo screen appears to reset the unit and return normal functionality.
139. Repeat steps 127 to 129 on vehicles that have had Navigation software installed.
140. Select the region you require to enable the correct radio frequency for (23), refer to Region information below :-
- WESTERN EUROPE:- Austria, Belgium, France, Germany, Great Britain, Italy, Monaco, Netherlands, Spain, Sweden, Switzerland, Hong Kong, China, Australia, Singapore, Bahrain, Kuwait, Qatar, Saudi Arabia, UAE (Abu Dhabi, Dubai), South Africa and Lebanon.
 - NORTH AMERICA:- USA, Canada and Canada- Quebec.
 - REST OF WORLD:- Do Not select.



141. Press and hold the centre IRIS button for approximately five seconds until the McLaren logo screen appears to reset the unit and return normal functionality.

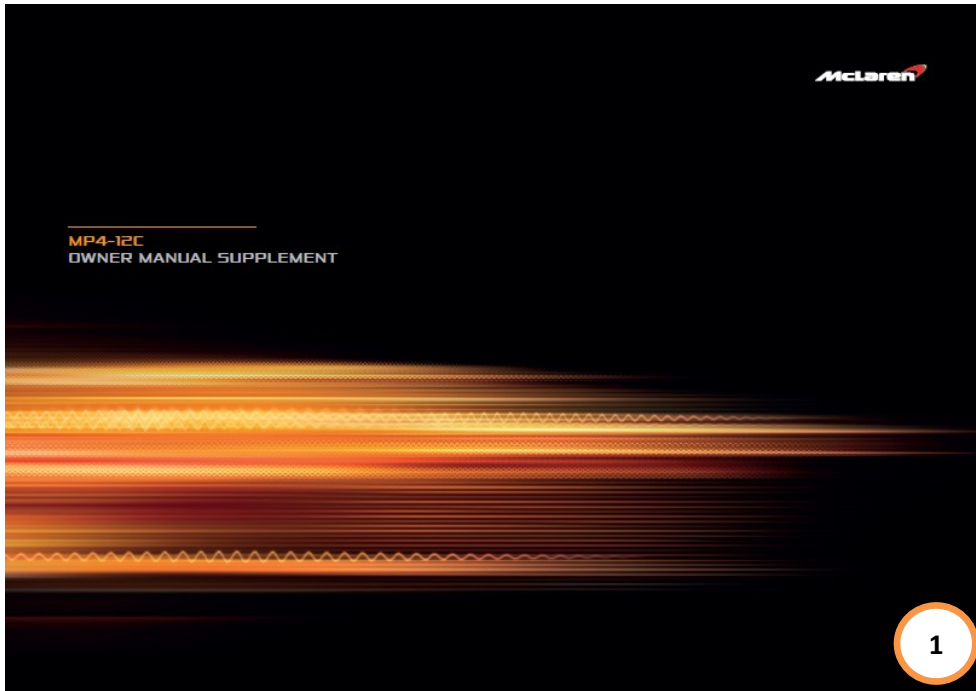
Care point: The VCI must be connected to the MDS with the USB cable to perform the next steps.

142. Start a New MDS session in the MDS Offline mode, refer to Service Information Bulletin 11 S 011 McLaren Diagnostic System (MDS) Offline and proceed to complete the remaining procedures.
143. Select ECM (1), then Actual Values (2), select the following values as per the screenshot below (3), then select the play button to access the required data screen.

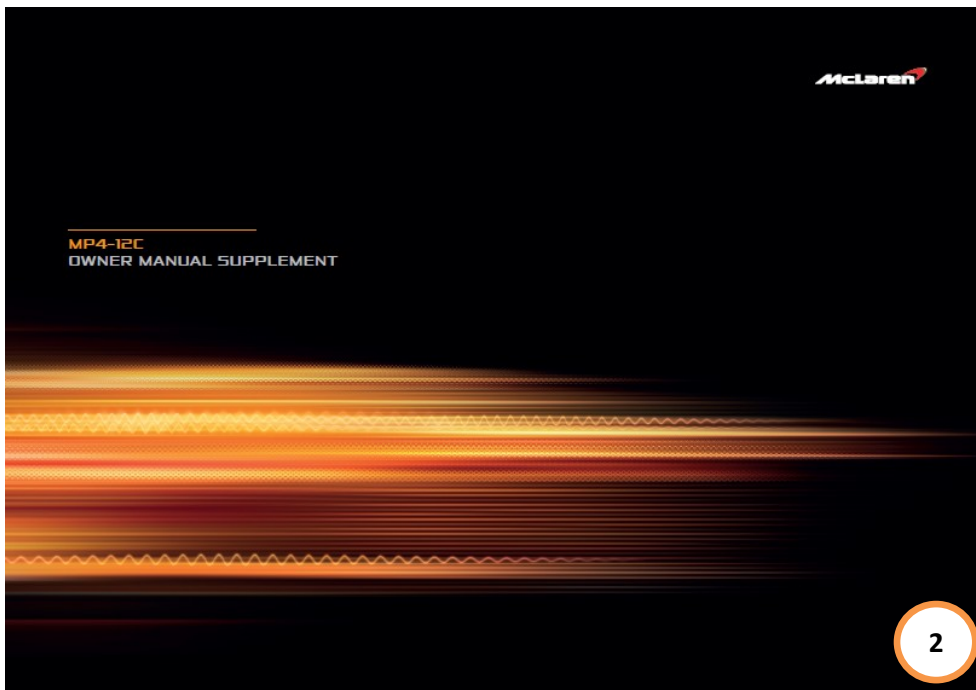


144. Misfire adaptations are performed whilst the car is driven with the gearbox set to manual mode and with the A/C off.
145. Perform eleven successive fuel cuts from above 4000rpm for a 5 second duration (a fuel cut off will occur when the accelerator pedal is fully released).
146. Once the Fuel off Adaption Counter reaches 11, the Fuel off Adaption Finished Counter will display 1, the misfire adaptations have been learned. The Fuel off Adaption Counter will display Zero and then start to count again when further fuel cut offs occur, this is correct operation and no further action is required.
147. Connect a mobile phone via Bluetooth and confirm functionality is Ok.
148. The vehicle requires to be outside for the Satellite Navigation to locate the correct vehicle position on the map this can take up to five minutes. Then enter a destination and drive the vehicle to confirm functionality is ok.

149. Insert the Owner Manual Supplements (1,2), IRIS User Guide (3) into the vehicles book set and provide the customer with copies of the Model Year 2013 Upgrade Certificate (4) and the EU Compliance document (5) (if applicable) .



Care point: The 'Owners' Manual Supplement includes information relating to the new IEE OCS system functionality. This system is not fitted to vehicles built prior to 31st May 2012. The customer should refer to the main Owners' Manual should they require information relating to the OCS system on their vehicle.



Care point: The customer must be informed of the new functionality with the aid of the supplied owners' manual supplements.



MODEL YEAR 2013 UPGRADE

This is to certify that McLaren MP4-12C chassis number

has been upgraded to Model Year 2013 specification by an Authorised McLaren Retailer including:

Standard Equipment

- McLaren M838T engine upgraded to 625PS (4535D)
- McLaren 7-Speed SSG transmission improved with new calibration
- Programmable intake sound generator (ISG)
- Radio and antenna updates to improve reception
- Bluetooth telephone and contacts
- Auto activation of headlights improved to include rain detection
- General software updates throughout the vehicle systems

Optional Equipment (where fitted to the vehicle as part of the original specification)

- Easy-Exit electric seat function expanded to provide seat return via menu stack
- New audio equaliser settings (part of Meridian upgrade) - Pure, Expanded & Extreme
- IRIS satellite navigation

Anthony Sheariff
Managing Director

Greg Levine
Sales and Marketing Director

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CONFIRMATION OF CERTIFICATE

TO WHOM IT MAY CONCERN

The Undersigned:

Herewith certifies that the engine of the presented car, McLaren MP4-12C, has had an engine power upgrade, using:

- Platform 10 software 625PS upgrade

After modification it is equal regarding emissions, sound level and power output of all McLaren MP4-12C vehicles as described in EC type approval number: e11*0007/04/0232704

ENGINE

Working principle: Positive ignition, four stroke, twin turbo forced induction
Number and arrangements of cylinders: 8 in a V8
Capacity (cm³): 3798cc
Fuel: Petrol (ethanol 0%)
Maximum power output: 460kw @ 7500

SOUND

Number of the base directive as applicable to EC type approval ECE R51.02

	Stationary dB (A)	Drive-by dB (A)
Coupe Standard muffler	93.4 @ 2750	74
Coupe Sports muffler	100.0 @ 2750	74
Spider Standard muffler	93.4 @ 2750	73
Spider Sports muffler	100.0 @ 2750	74

EXHAUST EMISSIONS

Number of the base directive as applicable to EC type approval EC 715/2007/03/02/2012

Test procedure:	Type 1
CO	525.0
HC	44.2
NOx	22.4
HC + NOx	N/A

CO₂ EMISSIONS/FUEL CONSUMPTION

Number of the base directive as applicable to EC type approval ECE R101.01

	CO ₂	l/100km
Urban	430	19.5
Extra-urban	197	7.9
Combined	279	11.7

Place: McLaren Technology Centre, Woking, Surrey

Date:

Signed:

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Please contact your Regional Aftersales Manager should you have any questions relating to the information contained in this bulletin.

WARRANTY INFORMATION

DESCRIPTION	RESOLUTION CODE	TOTAL REPAIR TIME
Software platform update	M0M30126A33A4A07	0.1

PARTS INFORMATION

PART DESCRIPTION	PART NUMBER	QUANTITY	ORDER PROCESS
N/A	N/A	N/A	N/A
