SERVICE CAMPAIGN BULLETIN

CAMPAIGN REF:	023
TITLE :	Line Pressure Sensor Incorrect Wake Time
DOCUMENT # :	11 G 005
AFFECTED VEHICLES :	12C Coupe and Spider

SITUATION :

Quality Engineering at McLaren Automotive have been informed by the Dual Clutch Transmission (DCT) supplier, that a batch of incorrectly programmed Line Pressure Sensors have been installed which have been fitted in production vehicles or supplied to Unipart. Performing a quick start can cause the Diagnostic Trouble Code (DTC) P0843 Line pressure signal high to log. Engineering have released software to prevent this DTC from being incorrectly logged.

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.

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.

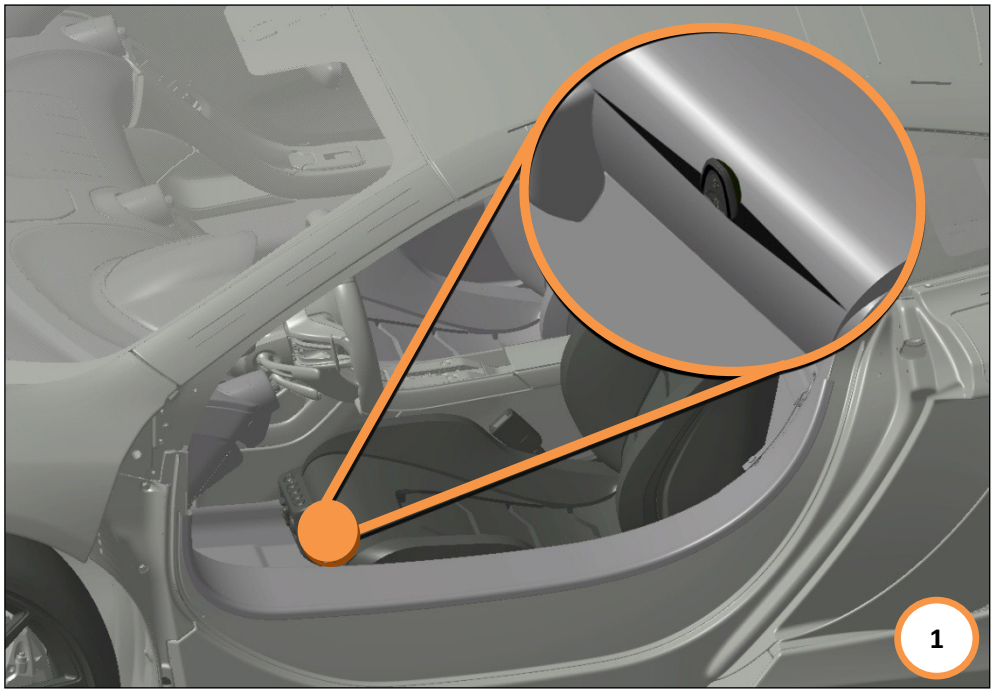
Care point: During the software download process, it is normal for the instrument cluster displays to extinguish temporarily.

Care Point: Ensure vehicle lift is in the lowered position before reprogramming the PCCU. Suspension Displacement Sensor Calibration will fail to complete if the system is not fully lowered.

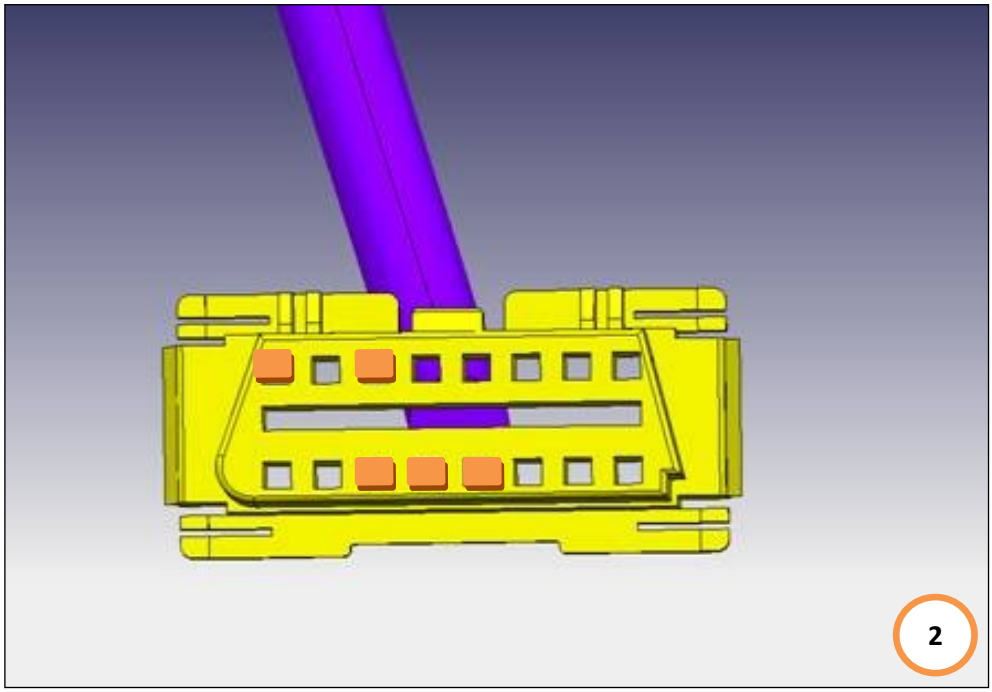
Care point: The vehicle must be positioned on a two post ramp and in the fully lowered position.

Date released: 14 May 2013

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



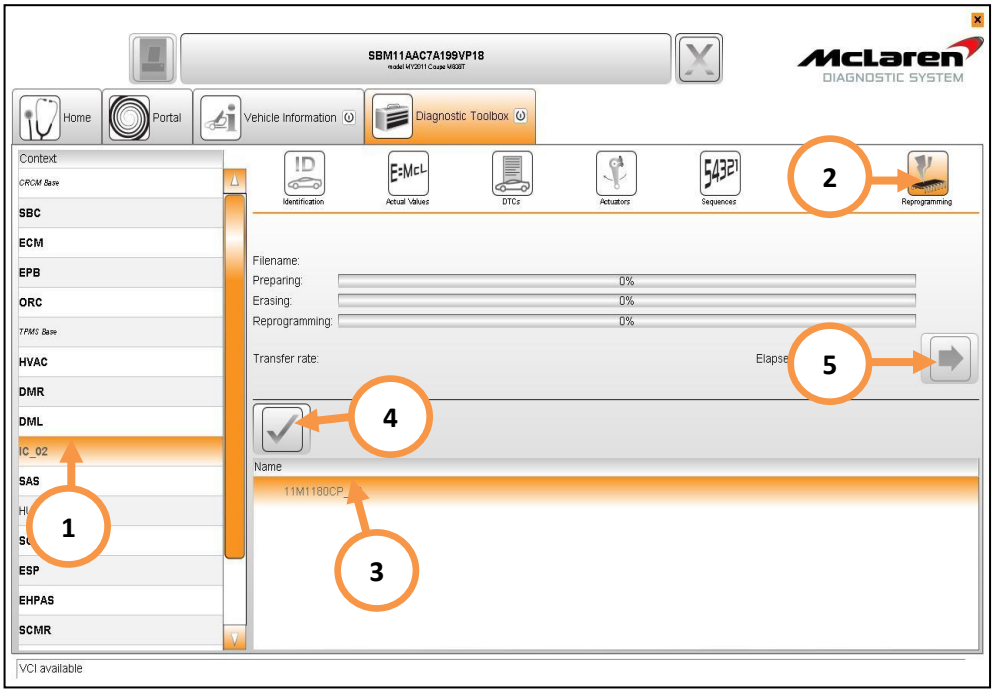
3. Check OBD connector pins 4, 5, 6, 14 and 16, as highlighted below are secure. Loose pins can cause module software download errors. If any of the pins are found to be loose these should be closed up before module reprogramming is carried out (2).



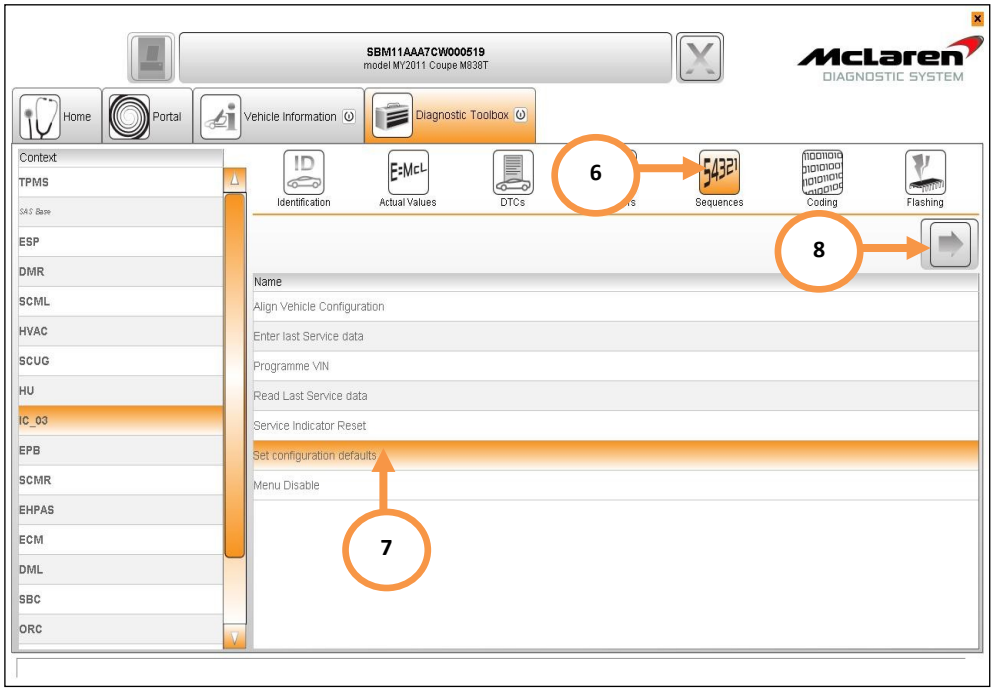
IC SOFTWARE UPDATE:

1. Connect the Mclaren Diagnostic System (MDS) to the vehicle.

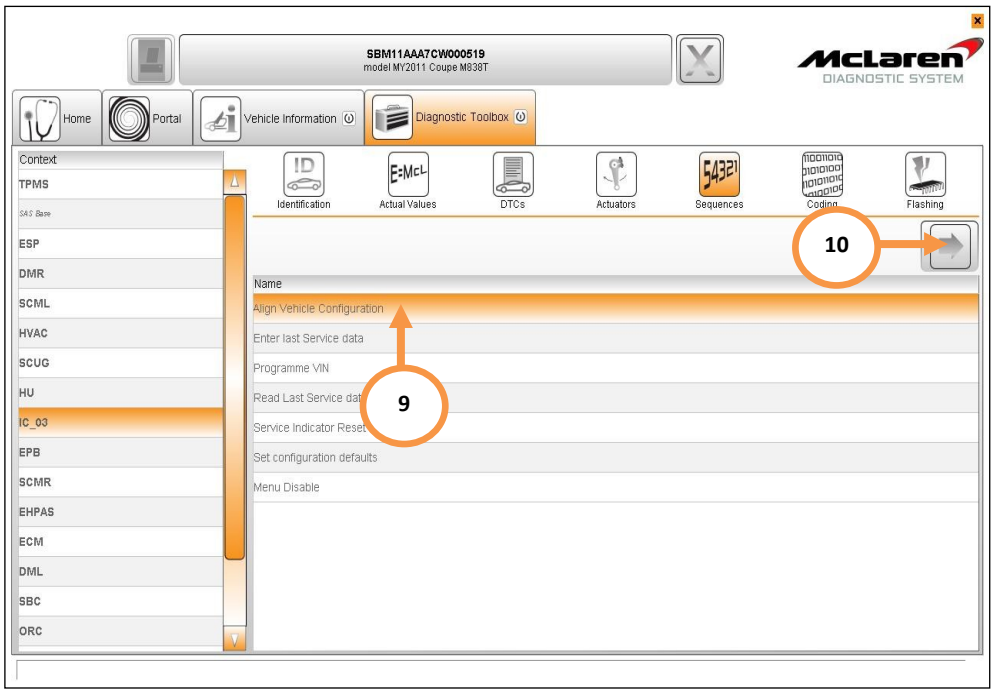
2. Select IC_03 (1), then Reprogramming (2), select the software level 11M1180CP.24 (3), then proceed to the software download by selecting the tick button (4), followed by the arrow button (5). Select ‘YES’ to initiate programming.



3. Select Sequences (6), select set configuration defaults (7) then select the arrow button to proceed (8).

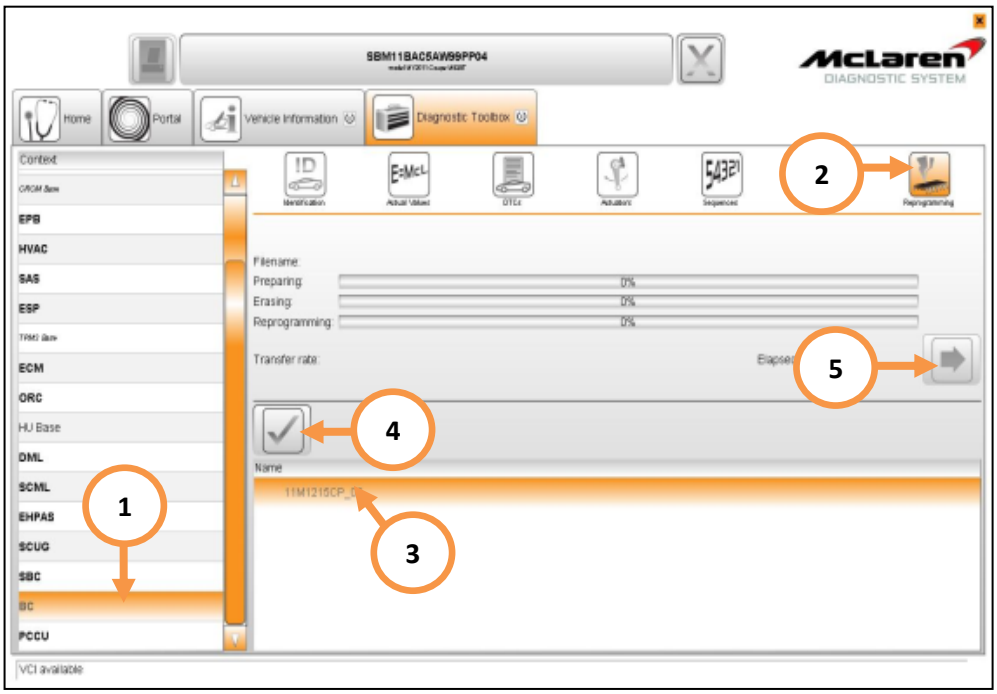


4. Select Align Vehicle Configuration (9), followed by the arrow key (10).

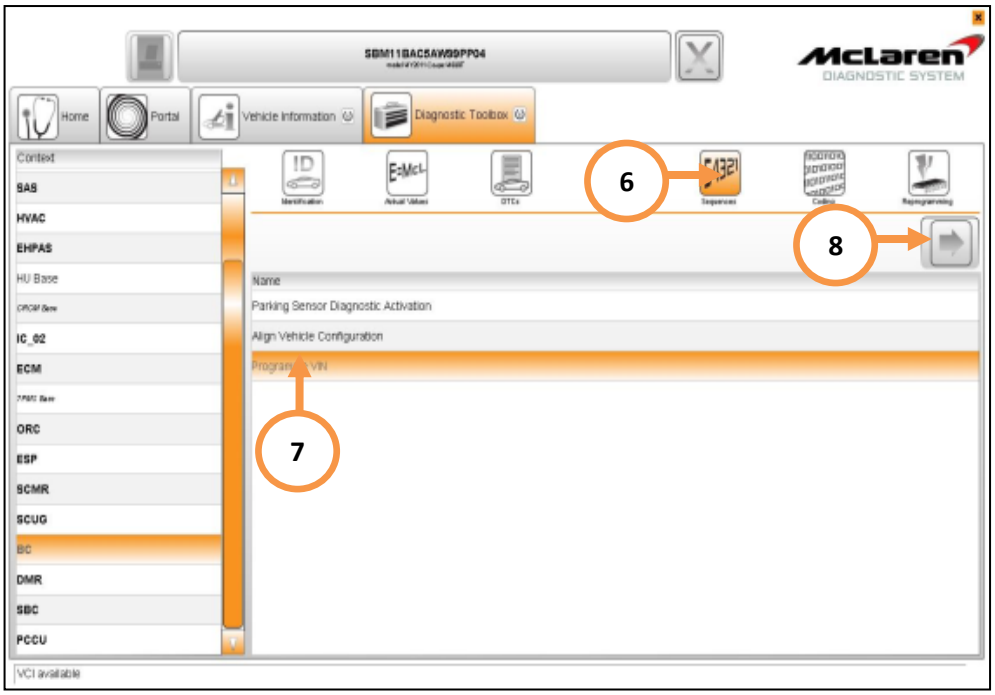


BC SOFTWARE UPDATE:

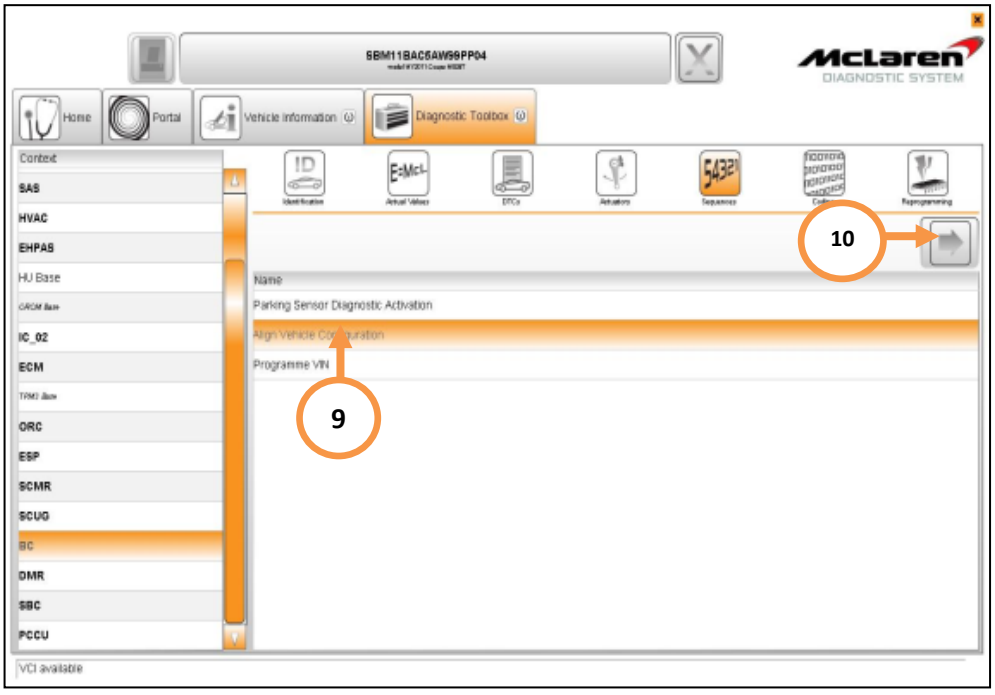
5. Select BC (1), then Reprogramming (2), select the software level 11M1215CP.11 (3), then proceed to the software download by selecting the tick button (4), followed by the arrow button (5). Select 'YES' to initiate programming.



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

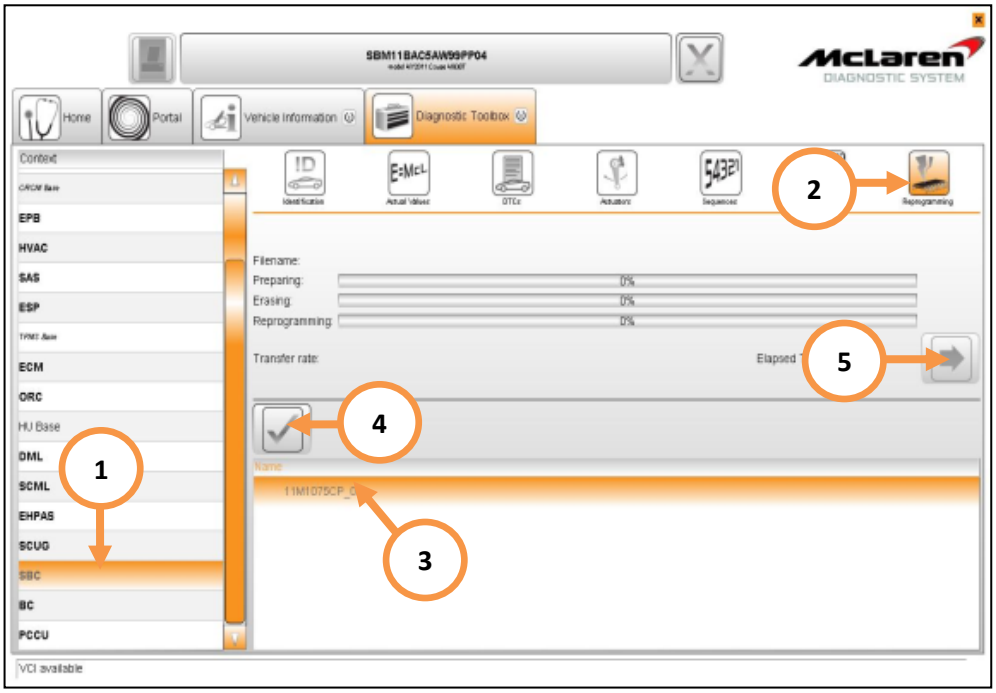


7. Select Align Vehicle Configuration (9), followed by the arrow key (10).



SBC SOFTWARE UPDATE:

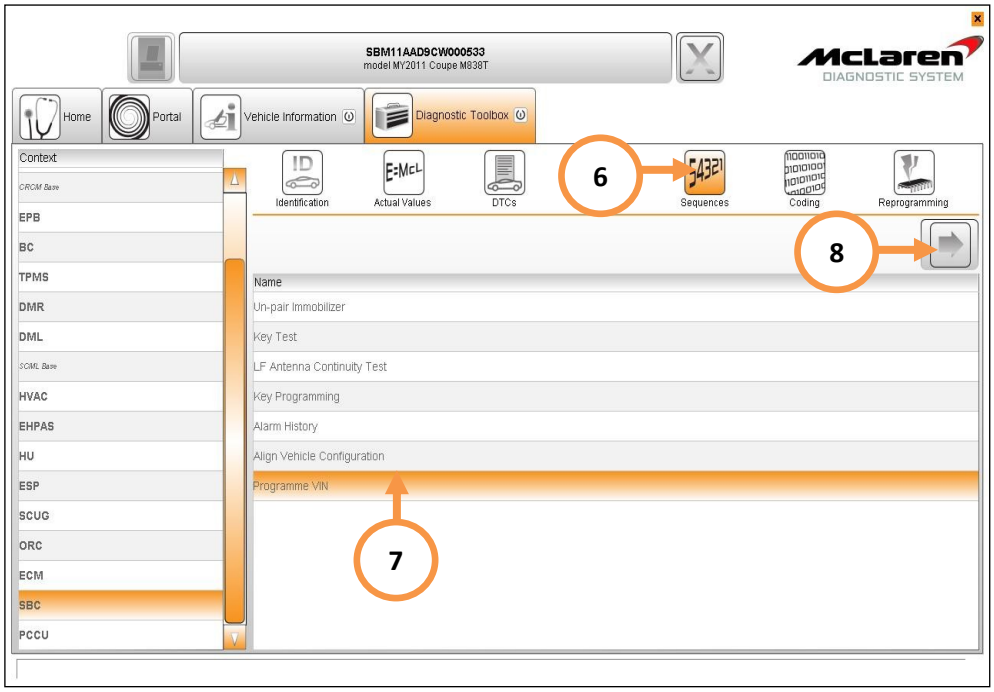
8. Select SBC (1), then Reprogramming (2), select the software level 11M1075CP.17 (3) then proceed to the software download by selecting the tick button (4), followed by the arrow button (5). Select 'YES' to initiate programming.



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

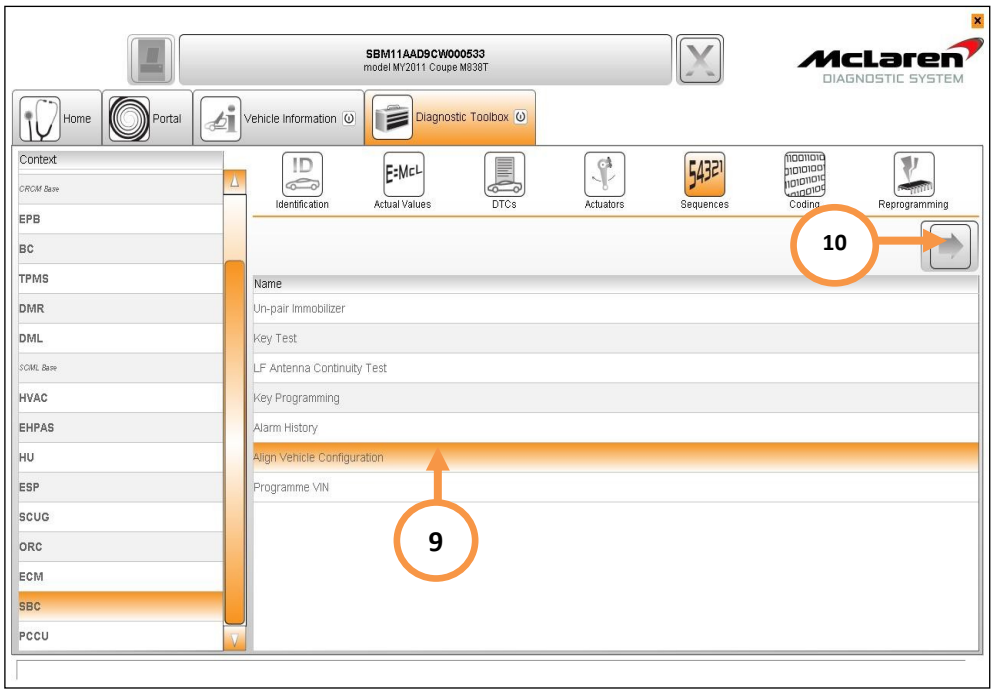
10. After one minute, press the unlock button on the key and then establish the vehicle into ignition state 5 before following the next steps.

11. 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.



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

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



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

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.

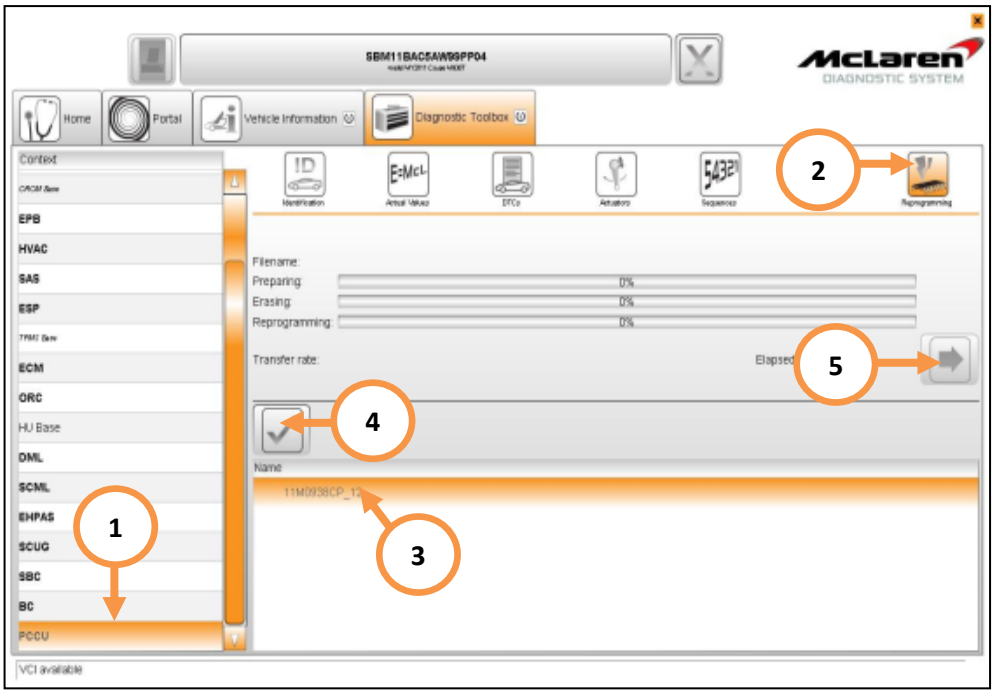
Care Point: Ensure vehicle lift is in the lowered position before reprogramming the PCCU. Suspension Displacement Sensor Calibration will fail to complete if the system is not fully lowered.

Care point: PCCU Degrade will appear after the update on the IC, this can be ignored.

Care Point: The vehicle must not be started until steps 15 to 25 have been completed.

Care point: The vehicle must be positioned on a two post ramp and in the fully lowered position.

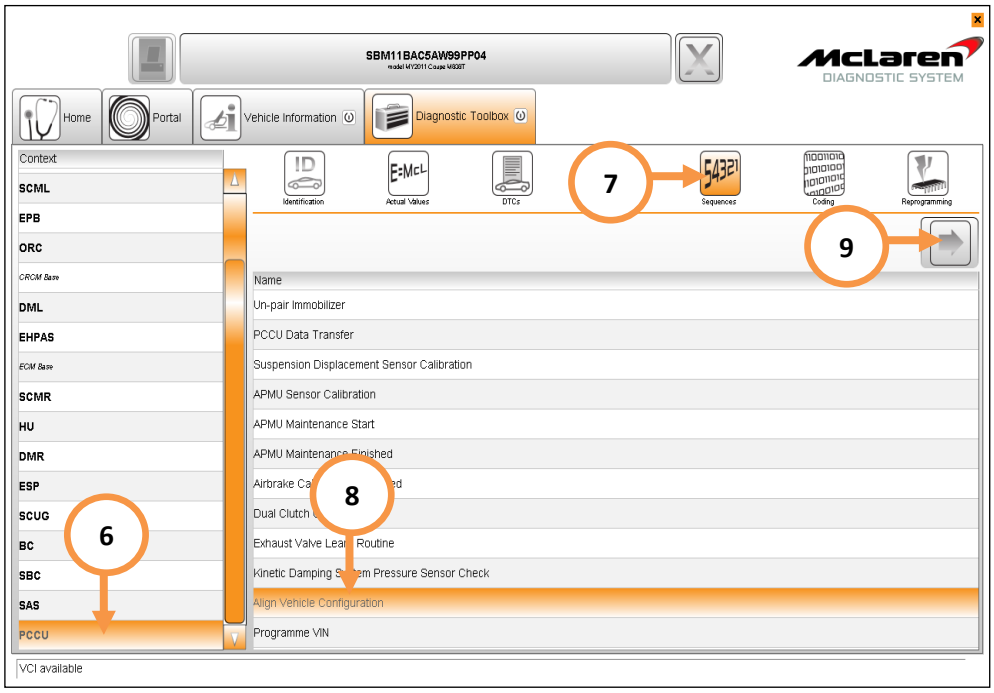
15. Select PCCU (1), then Reprogramming (2), select the software level 11M0938CP.21 (3), then proceed to the software download by selecting the tick button (4), followed by the arrow button (5). Select 'YES' to initiate programming.



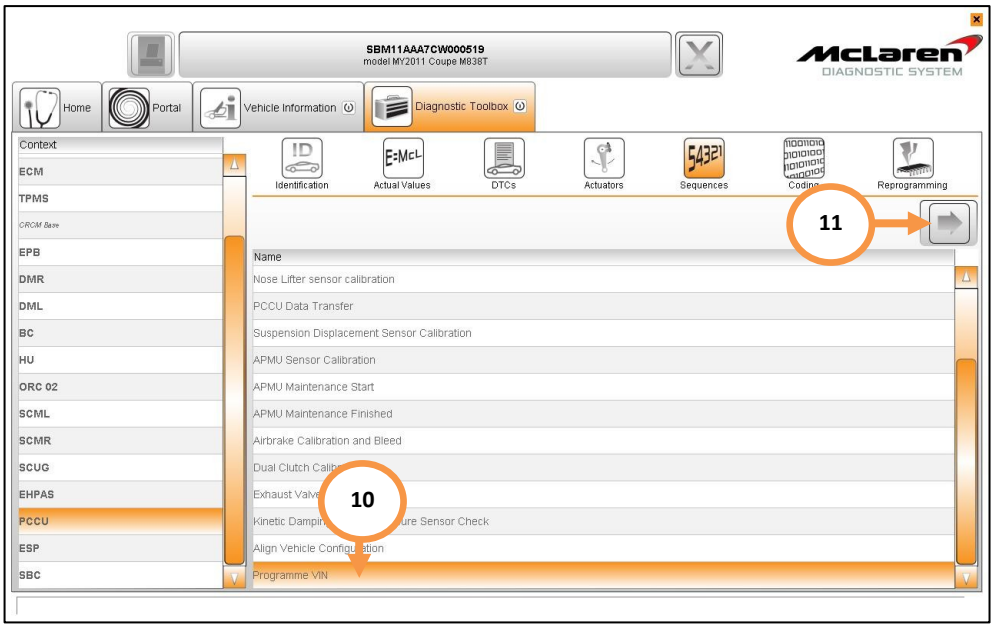
Care Point: HVAC DTC's U015500 CAN Missing IC and B1A3700 Kept Awake may not delete these can be ignored.

16. 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.

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



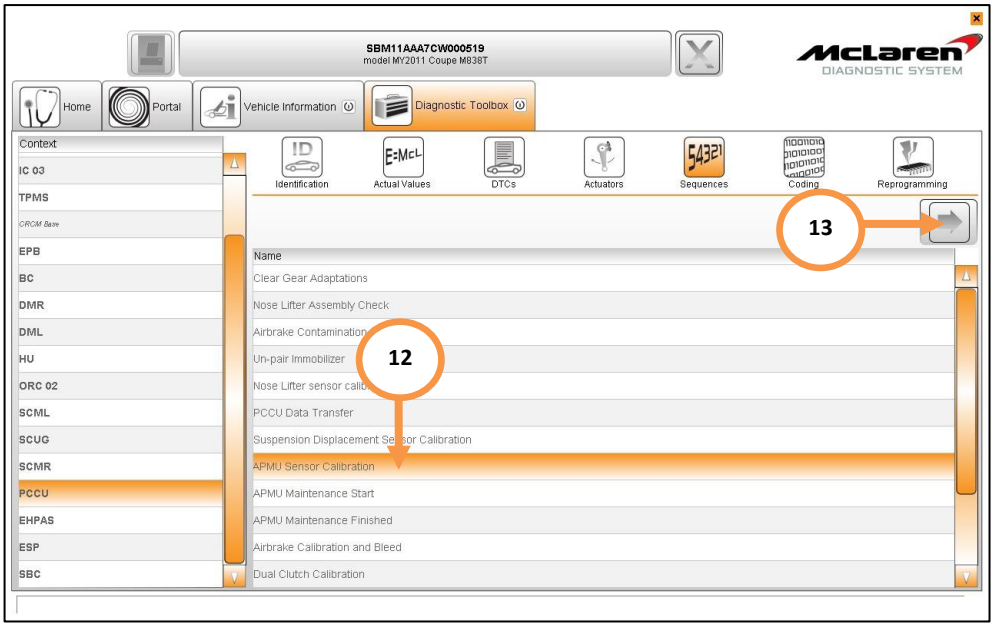
18. Select Programme VIN (10), followed by the arrow key (11).



19. Cycle the ignition (on off on) and wait for 30 seconds.

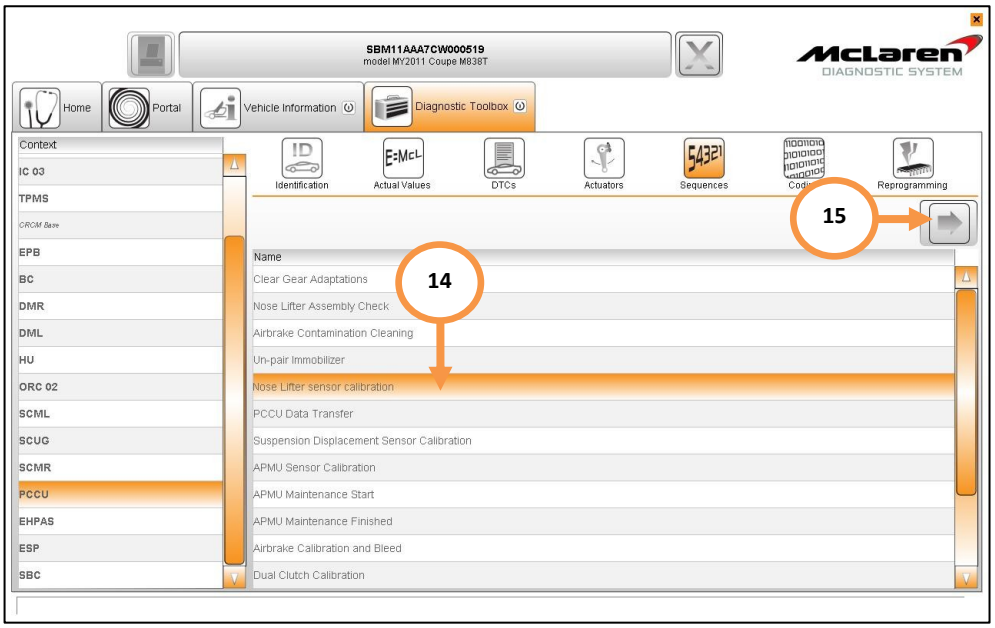
Care point: The vehicle must be positioned on a two post ramp fully lowered whilst performing APMU sensor and Nose Lifter sensor calibrations.

20. Select APMU sensor calibration (12), followed by the arrow key (13).

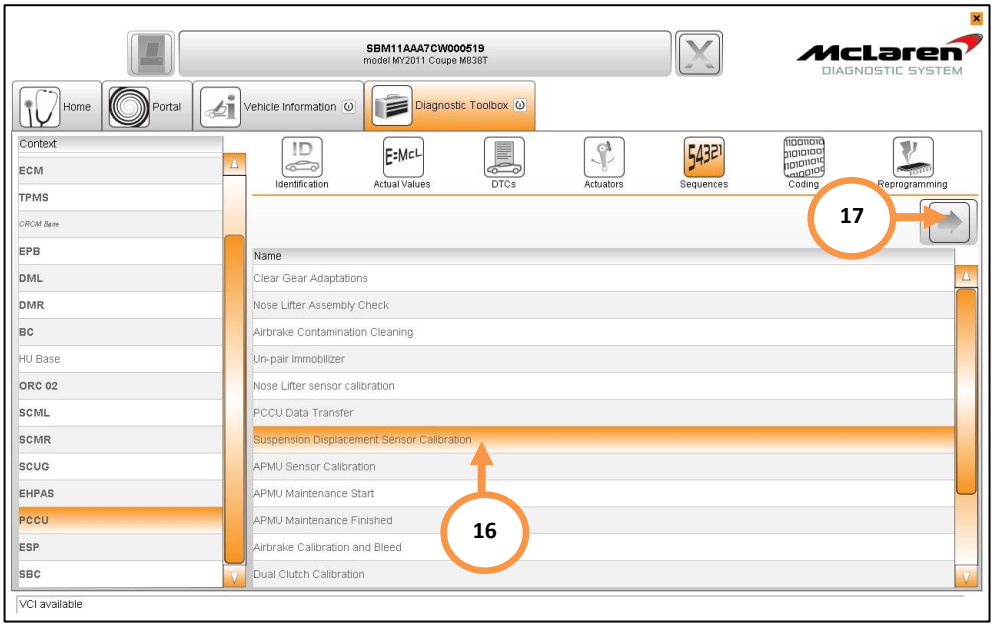


Care point: Step 21 is only required for vehicles fitted with Nose Lift.

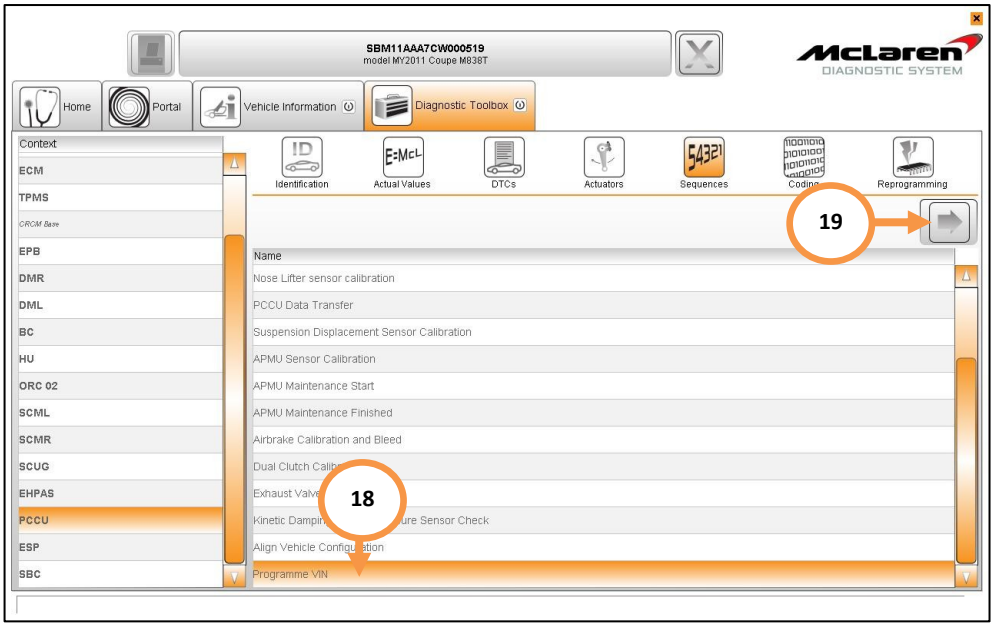
21. Select Nose Lifter sensor calibration (14), followed by the arrow key (15).



22. Select Suspension Displacement Sensor Calibration (16), followed by the arrow key (17) and then refer to Service Information Bulletin 11 B 007.



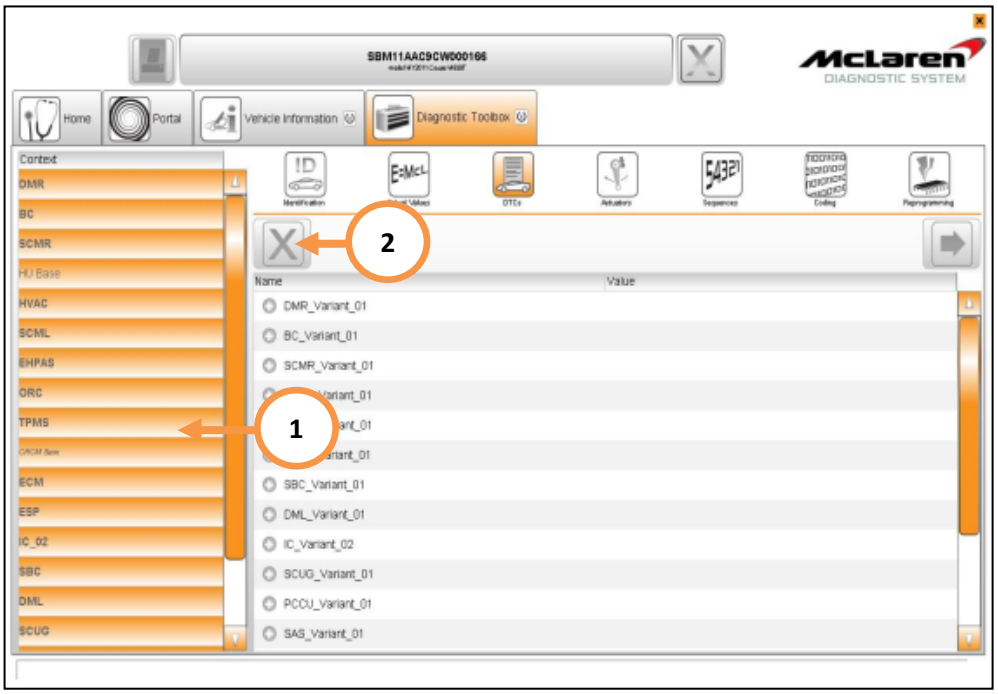
23. Select Programme VIN (18), followed by the arrow key (19).



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

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

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

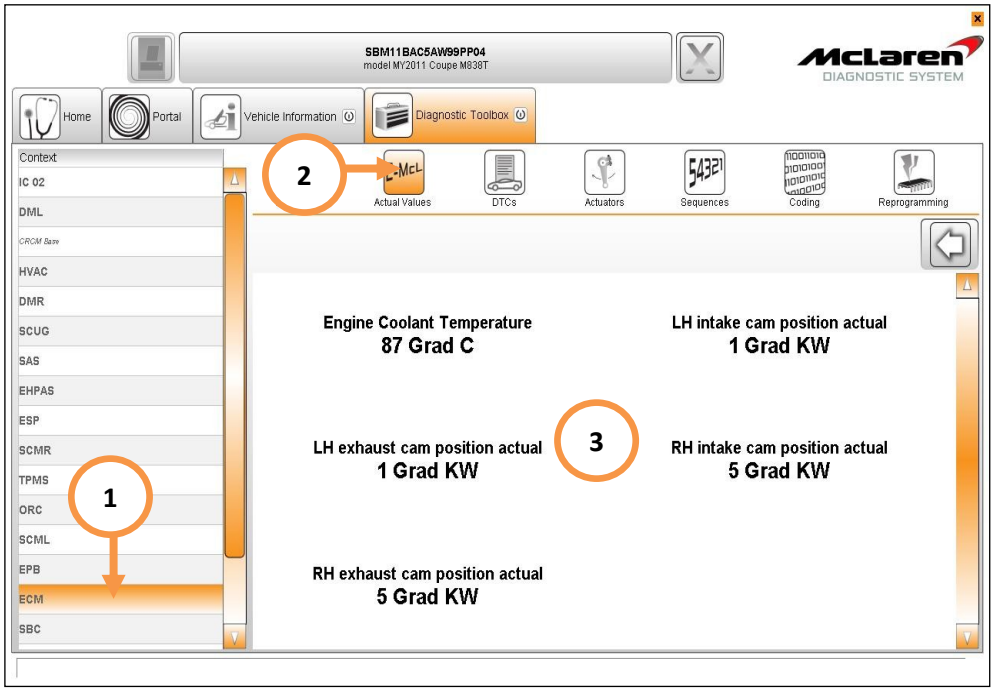


25. Press the stop/start button with the brake pedal depressed to start the engine and allow to idle until fully warm.

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

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

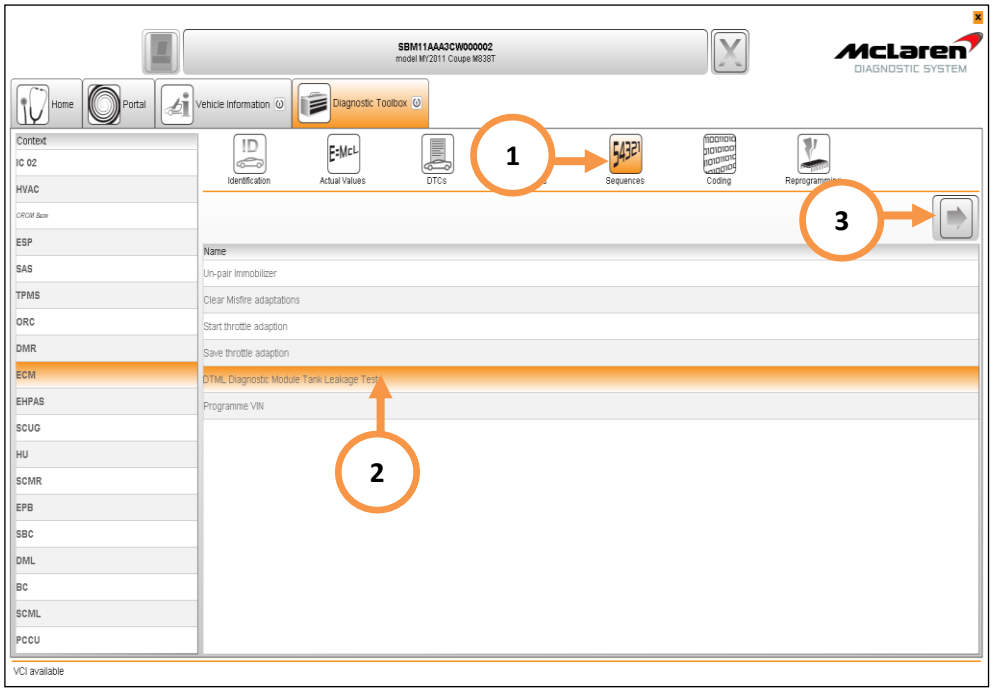
27. The inlet and exhaust camshaft values should be between 1 and 4, both values will fluctuate slightly. If all values are correct then no further action is required so proceed to step 29. If any values are incorrect proceed to step 28 to carry out the camshaft adaption.



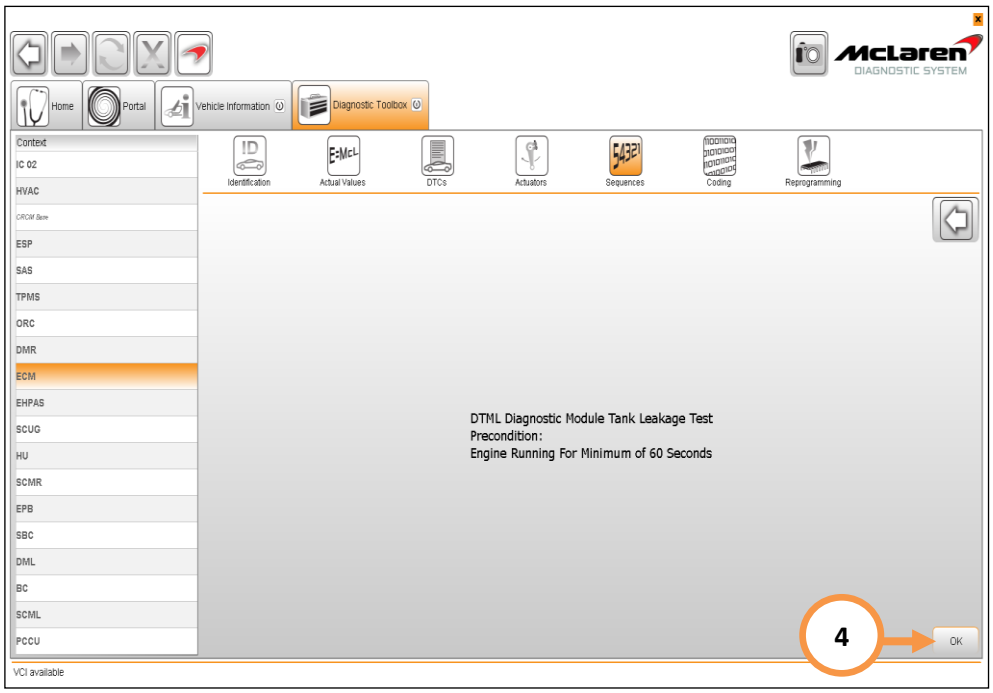
28. Switch the engine off, wait 30 seconds, restart the engine and recheck the values. Repeat this procedure until the target values are achieved.

Care point: The fuel level must be above ¼ before you proceed to the Diagnostic Module Leakage Test (DMTL).

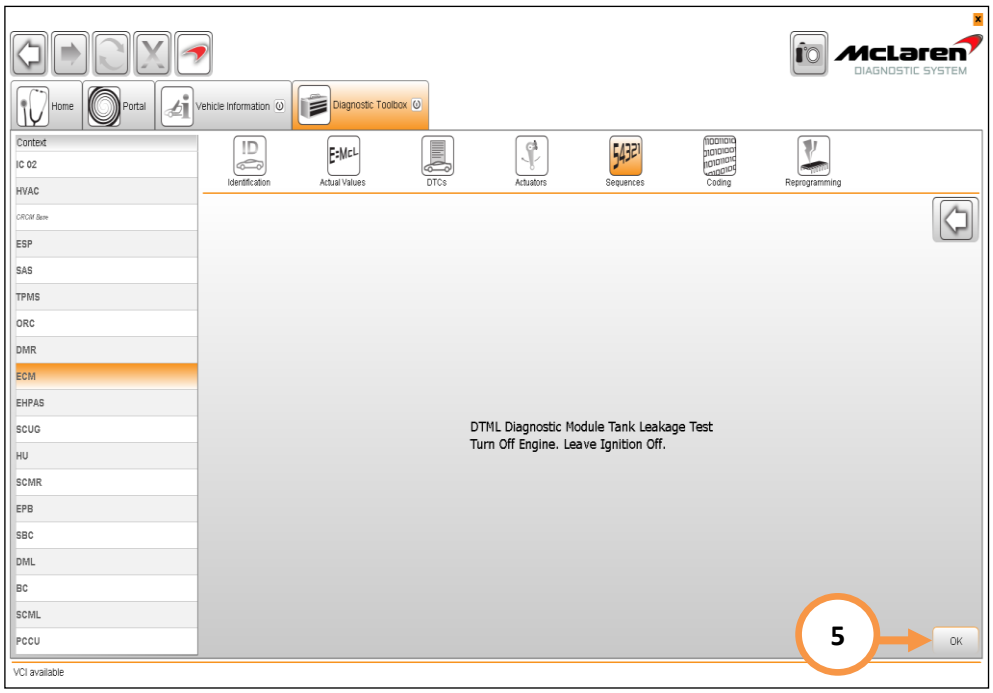
29. Select Sequences (1), then DMTL-Diagnostic Module Leakage Test (2), followed by the arrow button to proceed (3).



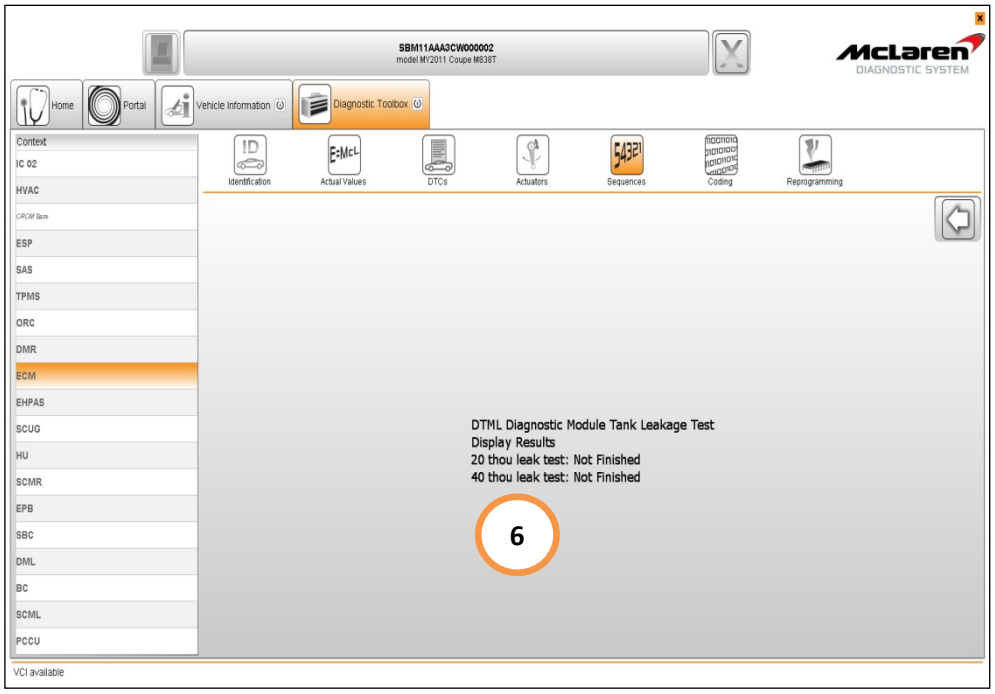
30. Follow the preconditions and run the engine for 60 seconds and then select Ok (4).



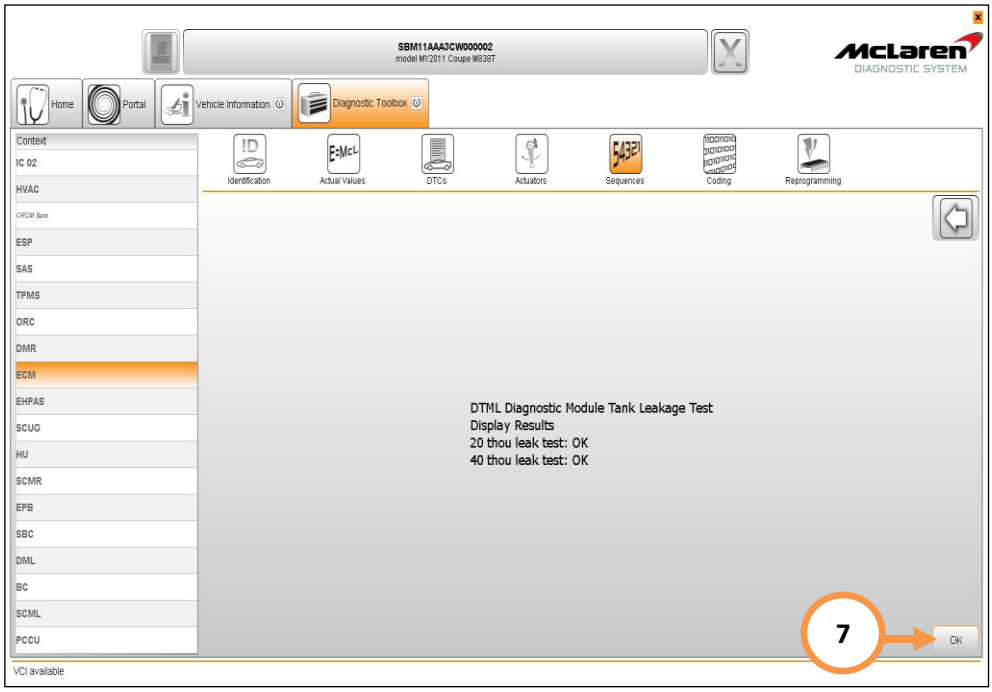
31. Follow the instructions on the next screen and then select OK (5).



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



33. When the 20 thou and 40 thou leak tests have compeletd the screen below will be dispalyed, then select Ok (7).



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

The Gearbox serial numbers have been supplied by Unipart to the Dealers listed below. When installing any of these Gearboxes, a work package must be raised quoting the gearbox serial number.

Unipart Supplied Gearboxes			
Serial Number	**Location**	**Serial Number**	**Location**
3069	McLaren GT Fleet spares	3098	Mclaren Manchester
3077	Mclaren San Francisco	3117	Unipart

Warranty information: Total repair time also includes the time for carrying out Service Information Bulletin 11 B 007.

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 to 11	E0G10158A33B4E07	1.20 hours

PARTS INFORMATION

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