

SERVICE CAMPAIGN BULLETIN

CAMPAIGN REF : 013
TITLE : Software update
DOCUMENT # : 11 M 021
AFFECTED VEHICLES : 12C Coupe

SITUATION : Quality Engineering at McLaren Automotive have released new a software update to improve vehicle functionality and customer satisfaction. Customer benefits include:

- Fuel range calculation operates to empty with improved algorithm.
- Improved low fuel warning accuracy with additional very low fuel message.
- Erroneous low coolant messages eradicated.
- Option to choose date in MM/DD format included.
- Increased stability and power management of the IRIS system, with the introduction of Traffic Programme (TP) to the radio section.
- Co-ordination of the date within the IRIS system and Instrument Cluster improved.

PROCEDURE : It is necessary to install the software updates on all affected vehicles. The latest software requirements are listed below:

MODULE	NEW SOFTWARE PART NUMBERS
Switch Control Unit Gateway (SCUG)	11M1290CP.02
Electronic Stability Program (ESP)	11M1125CP.03
Instrument Cluster (IC)	11M1180CP.11
Steering Angle Sensor (SAS)	11M1099CP.03

Care point: Ensure 11 M 012 “IRIS reception and operational stability issues” bulletin is not outstanding. This bulletin needs to be performed prior to this software update in order to take full effect.

Care point: It is necessary to perform this work directly before 11 M 020 “Software and rework requirements (8.2.2)” bulletin is performed.

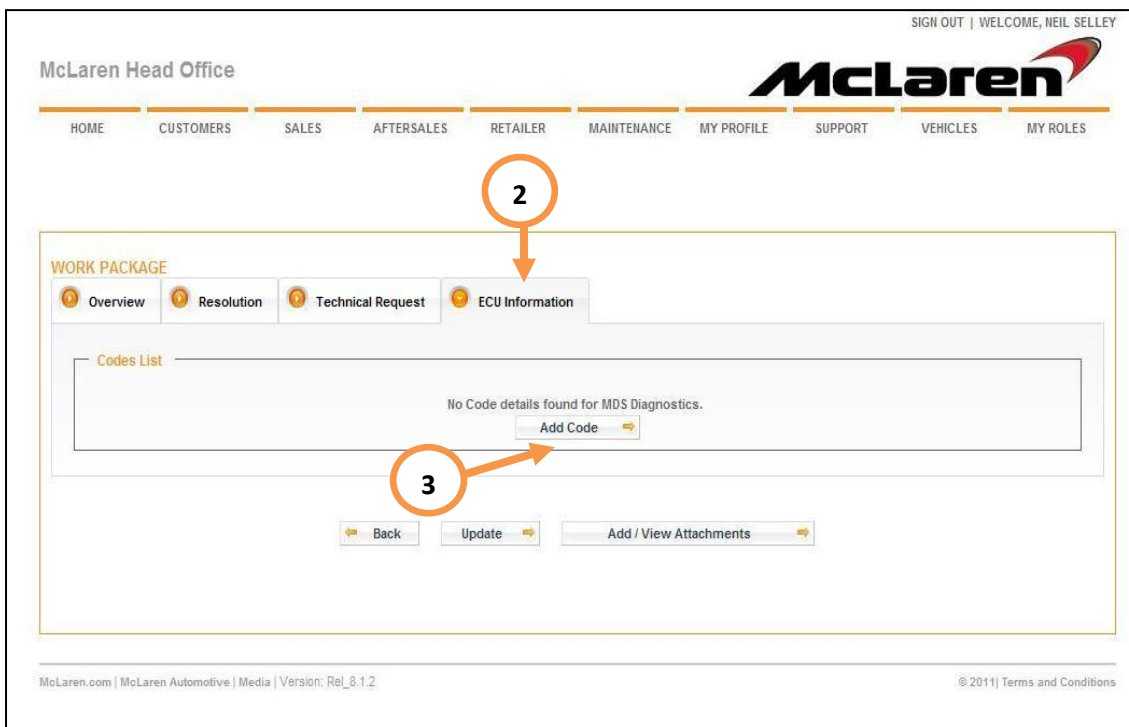
WORK PACKAGE SECTION

Care point: Always refresh internet explorer before opening another work package.

1. A work package must be created prior to commencing work on each vehicle. McLaren Automotive will send an e-mail to relevant personnel within the dealer network which contains data that must be entered within the work package. Find the VIN number of the vehicle that you are going to work on and the coding string, short text and long text will be alongside (1).

	A	B	C	D
1	VIN Number	Coding String	Short Text	Long Text
2	SBM11AAC1BW000001	310104190101010101030101030200000007010102000101000100010000000104010001	SBM11AAC1BW000001	Press OK to Code IC
3	SBM11AAA3CW000002	310104190101010101030101030200000007010102000101000100010000000104010001	SBM11AAA3CW000002	Press OK to Code IC
4	SBM11AAC5BW000003	310104190101010101030101030200000007010002000101000100010000000104010101	SBM11AAC5BW000003	Press OK to Code IC
5	SBM11AAC7BW000004	310104190101010101030101030200000007010002000101000100010000000104010101	SBM11AAC7BW000004	Press OK to Code IC
6	SBM11AAC9BW000005	310104190101010101030101030200000007010002000101000100010000000104010101	SBM11AAC9BW000005	Press OK to Code IC

2. Open a work package within the dealer portal and within the ECU information section (2) select add code (3).



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WORK PACKAGE

Overview Resolution Technical Request **ECU Information**

Codes List

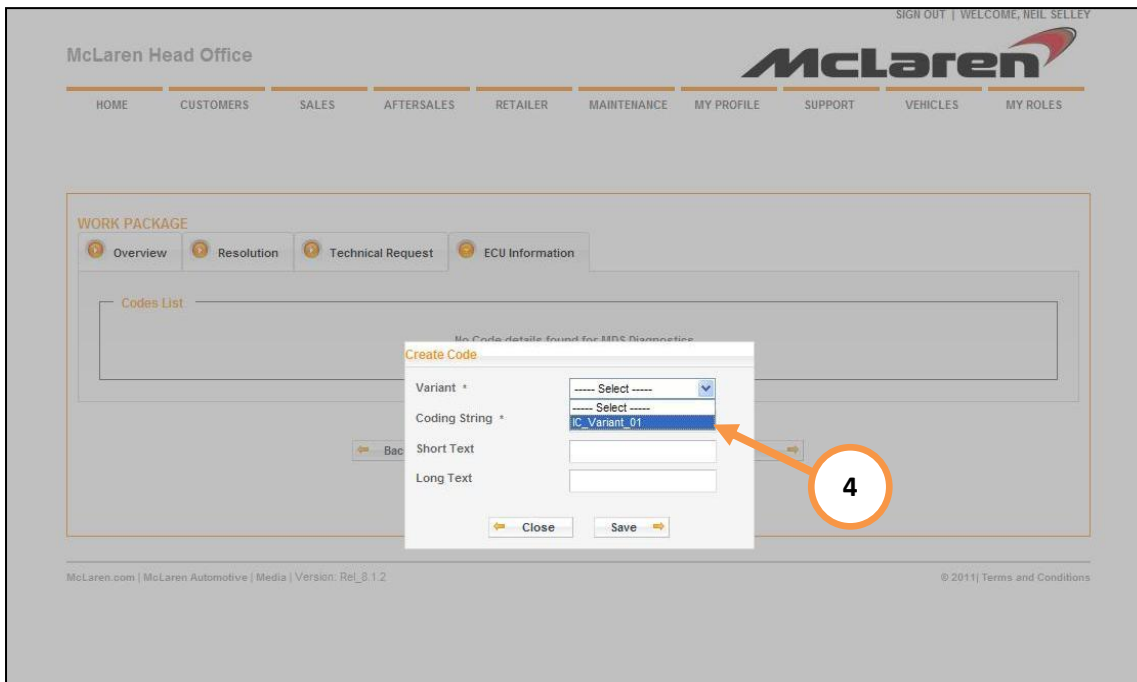
No Code details found for MDS Diagnostics.

Add Code

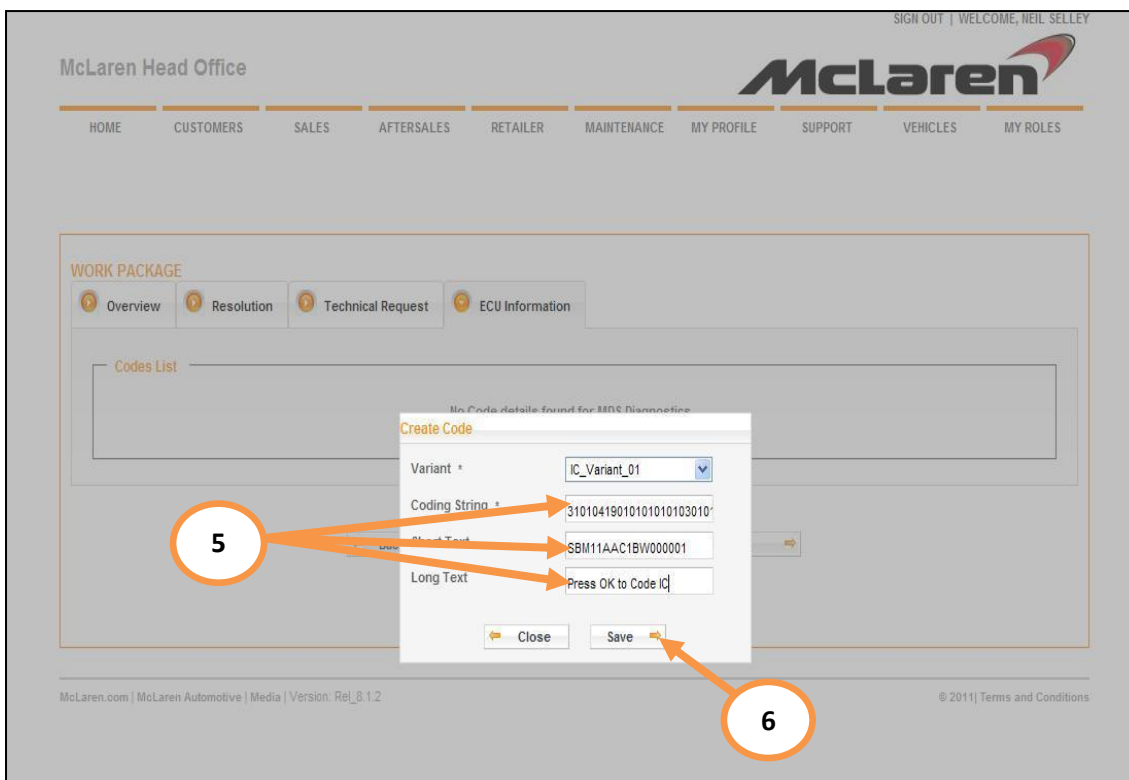
Back Update Add / View Attachments

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3. Add the coding string IC_VARIANT_02 displayed in the drop down menu (4).



4. Populate the coding string with the data provided and copy and paste the short text and long text fields from the details in the e-mail (5). Click save once completed (6).



5. Once the coding list field has been populated select the update button (7)

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WORK PACKAGE

Overview Resolution Technical Request **ECU Information**

Codes List

Coding List	Short Text	Long Text	Action
310104190101010103010103020000000701010200010100	SBM11AAC1BW000001	Press OK to Code IC	

1 Record(s) found, displaying 1 Record(s). Page 1 / 1.

[Add Code](#)

[Back](#) [Update](#) [Add / View Attachments](#)

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REMOVAL :

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

Care point: In order to avoid injury and damage to the vehicle do not connect positive terminal (+) to negative terminal (-). Ensure 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.

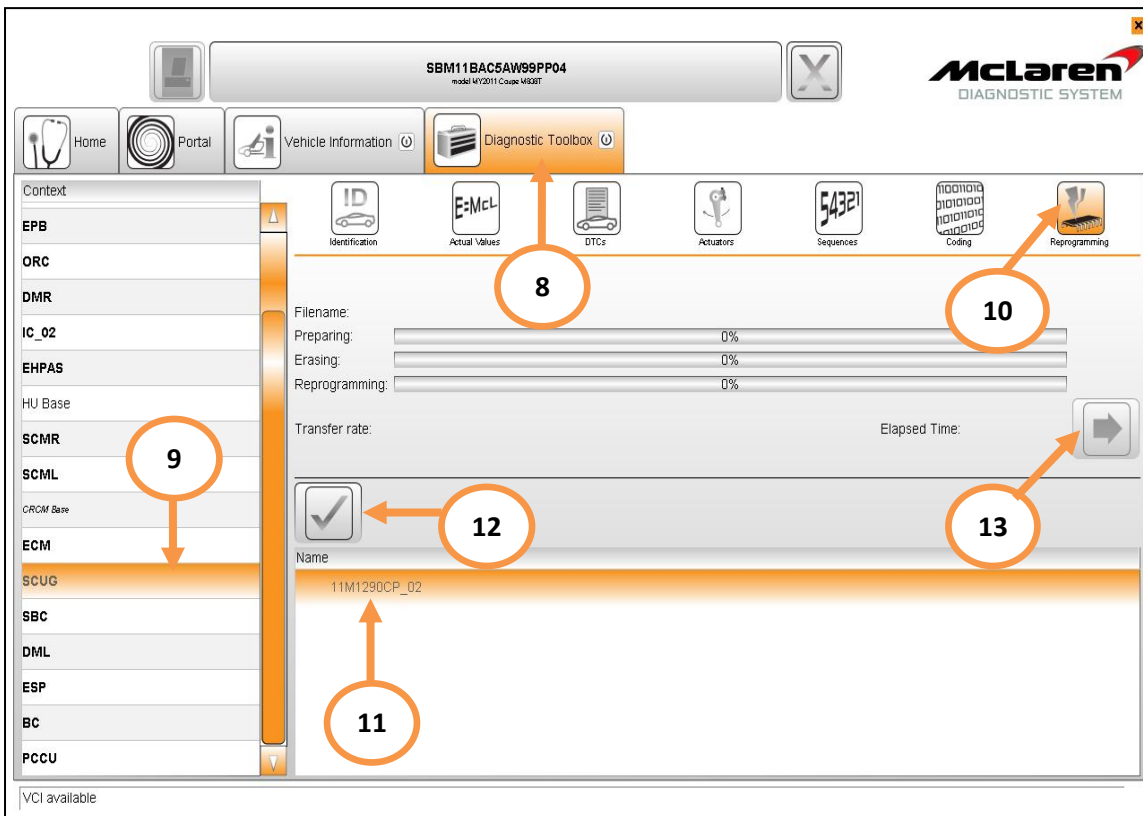
7. Keep battery on charge, using Deutronic battery charger, during the downloading procedure.

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

Care Point: During software download process it is normal for the instrument cluster lights to extinguish temporarily.

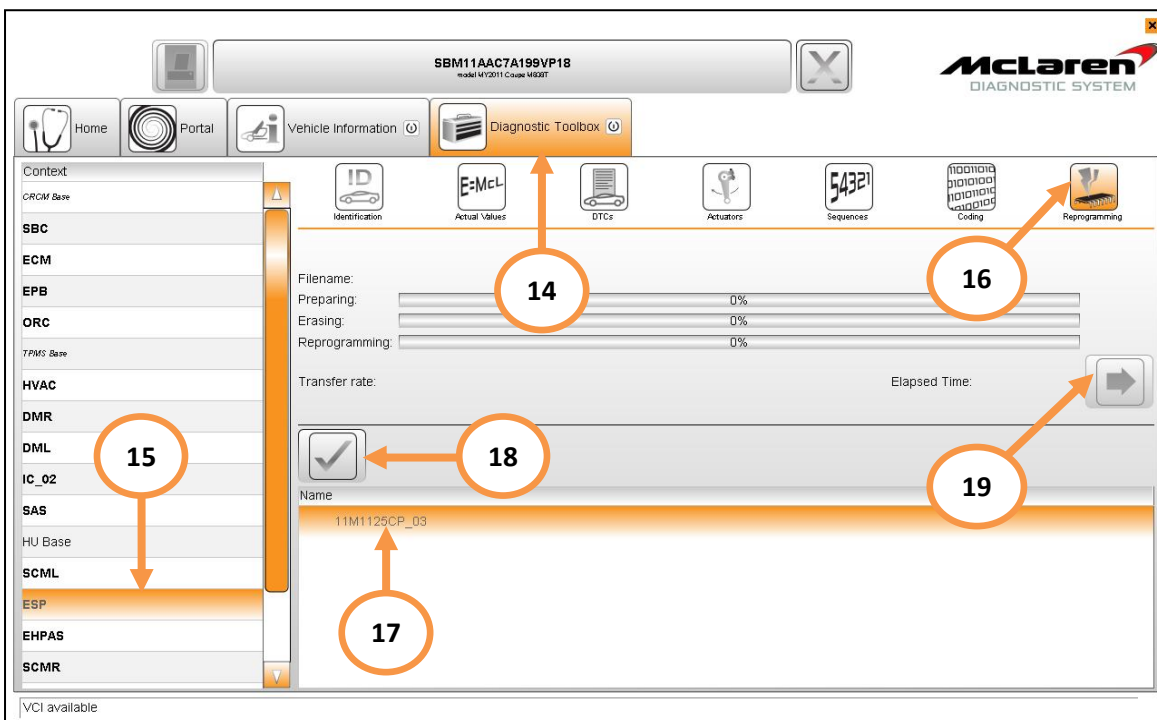
SWITCH CONTROL UNIT GATEWAY SOFTWARE

8. Within MDS proceed to the Diagnostic Toolbox (8). Select SCUG (9) then reprogramming (10). Select the software level 11M1290CP.02 (11) and proceed to the software download by selecting the tick button (12) followed by the arrow button (13).

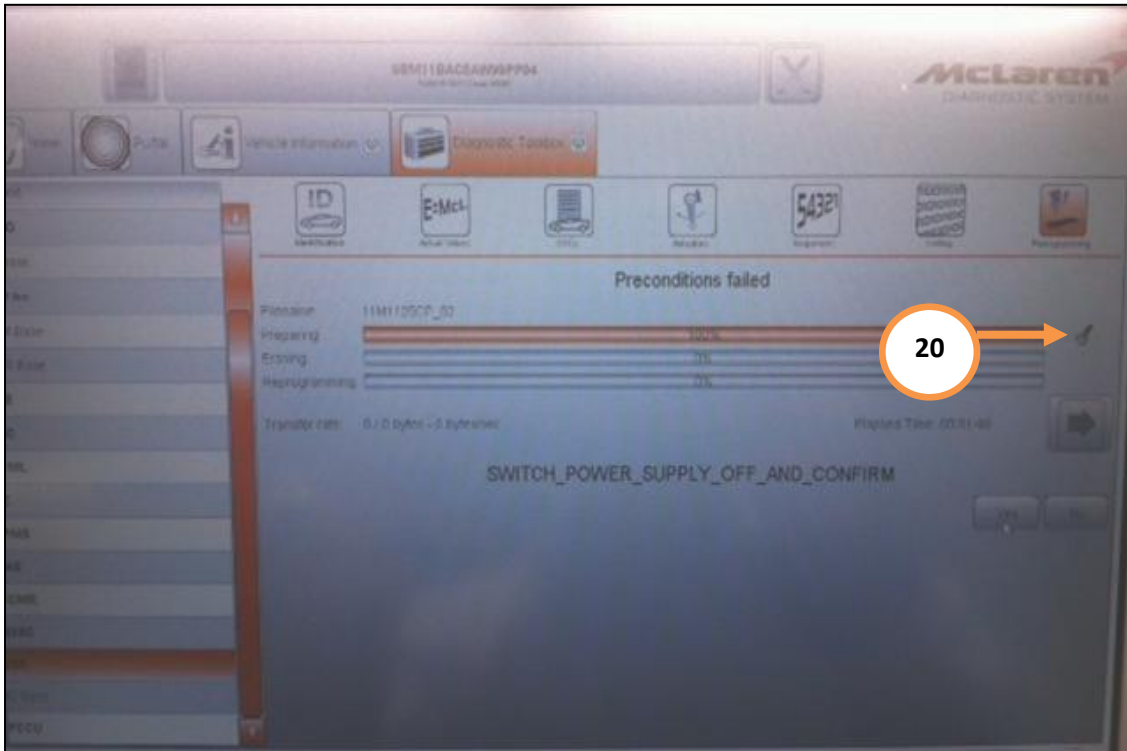


ESP SOFTWARE

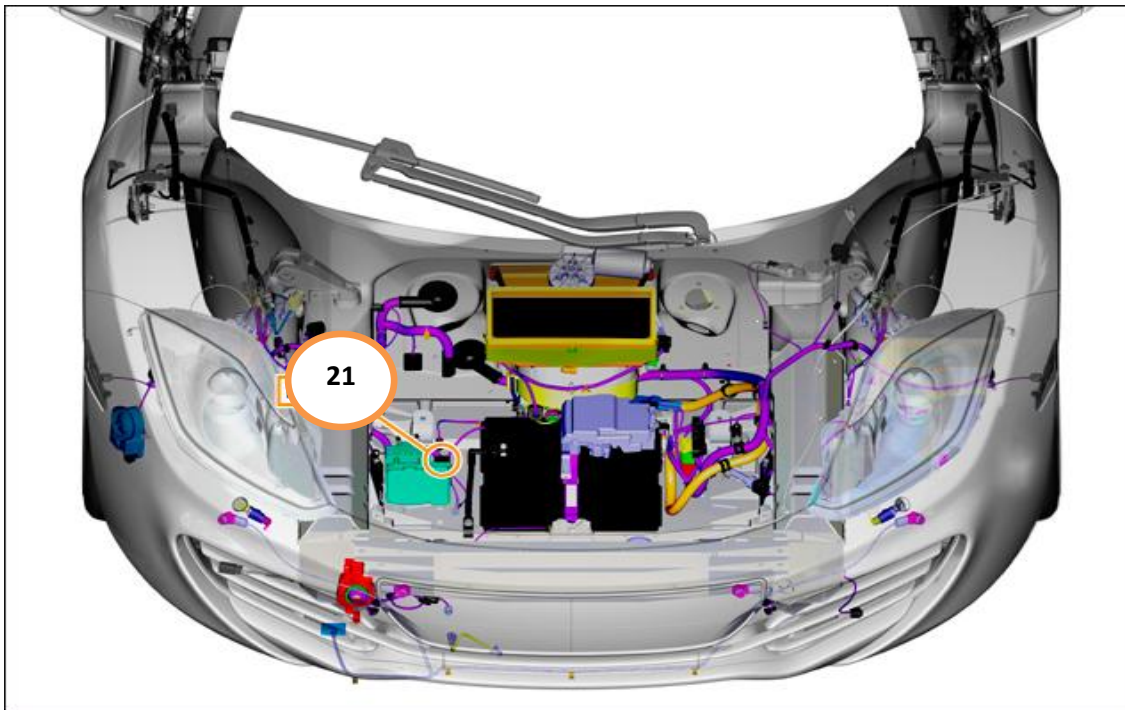
- Within MDS proceed to the Diagnostic Toolbox (14). Select ESP (15) then reprogramming (16). Select software level 11M1125CP.03 (17) and proceed to the software download by selecting the tick button (18) followed by the arrow button (19).



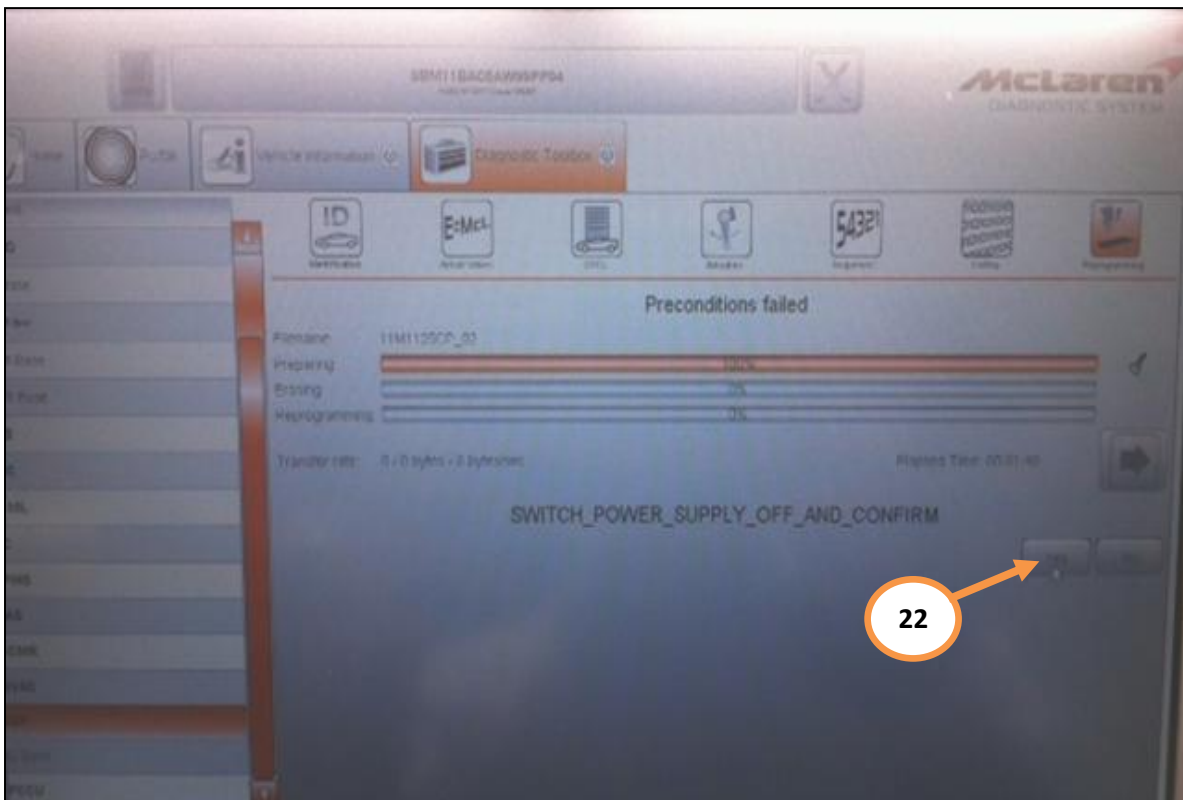
10. If the download is successful proceed to point 13. After the preparation phase of the download the system **may** inform the operator that the “Preconditions failed”. In this circumstance the ESP control unit will require a power cycle (20).



11. Disconnect the ESP connector (21) and wait for 5 seconds before reconnecting.



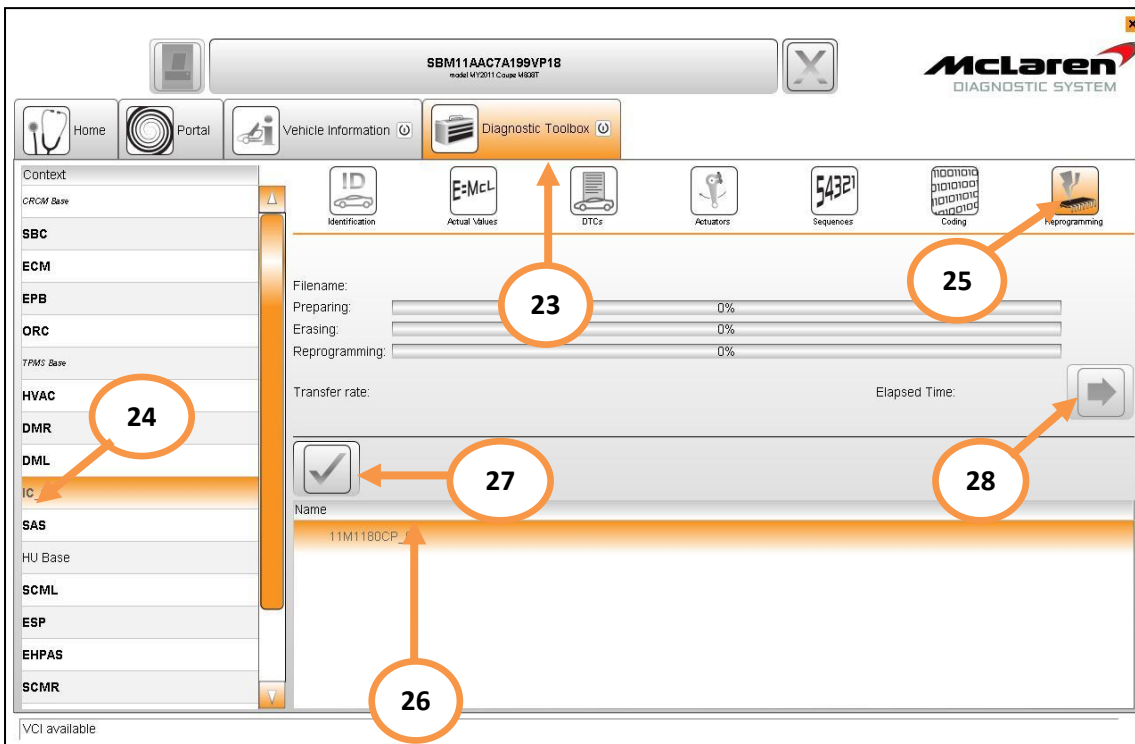
12. Press the YES button within 5 seconds of reconnecting the ESP connector in order to complete the software download (22).



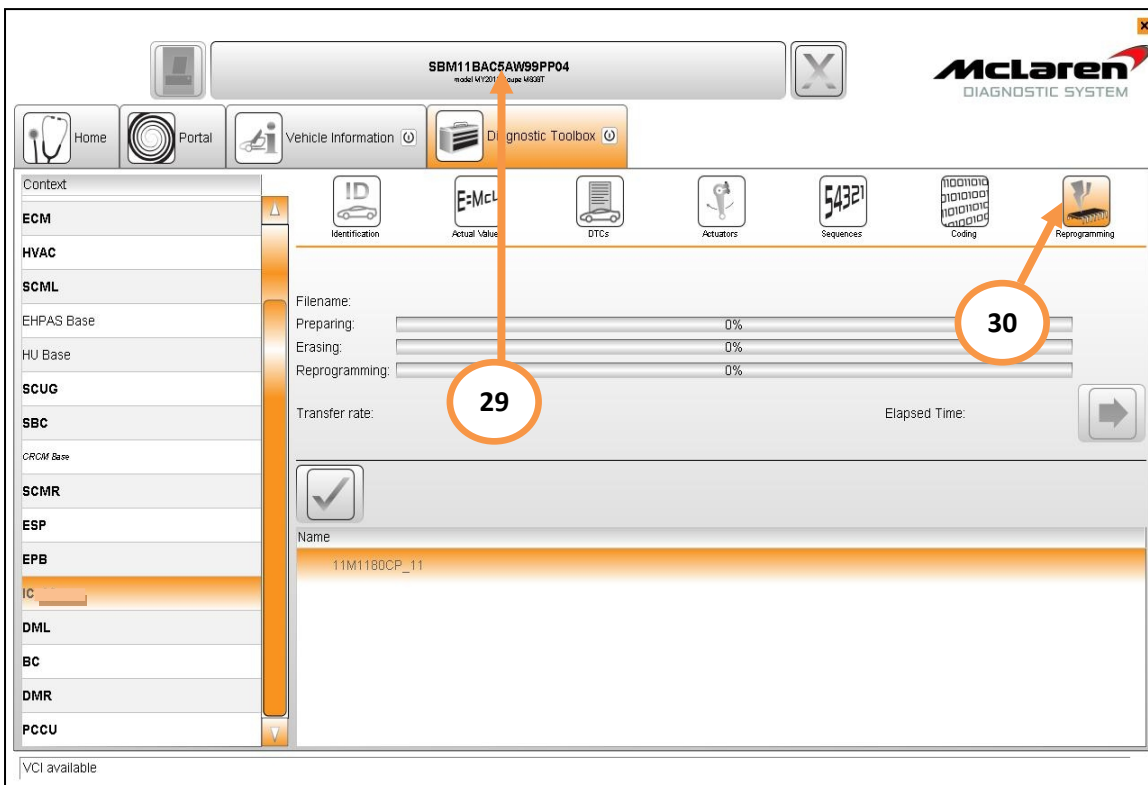
INSTRUMENT CLUSTER SOFTWARE

Care point: Software update to the Instrument cluster will improve accuracy of fuel range indicator. Therefore 11 M 004 "Fuel range indicator inaccurate" bulletin can be reversed.

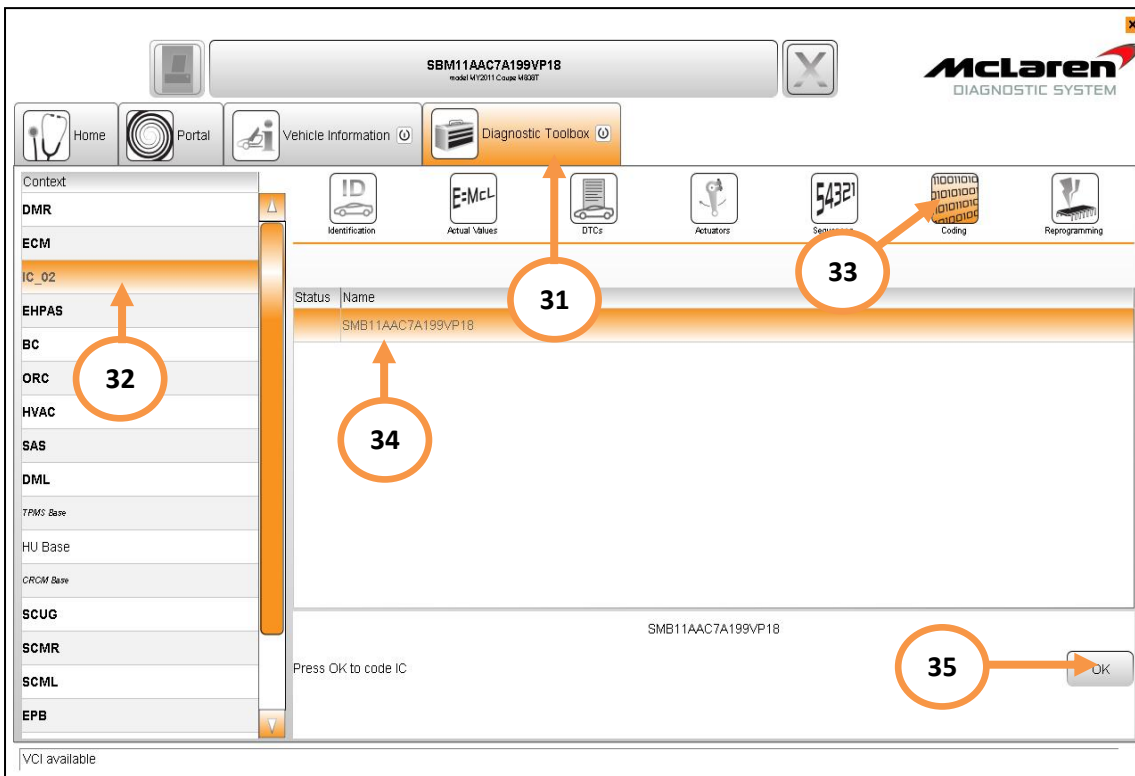
13. Within MDS proceed to the Diagnostic Toolbox (23). Select IC (24) then reprogramming (25). Select software level 11M1180CP.08 (26) and proceed to the software download by selecting the tick button (27) followed by the arrow button (28).



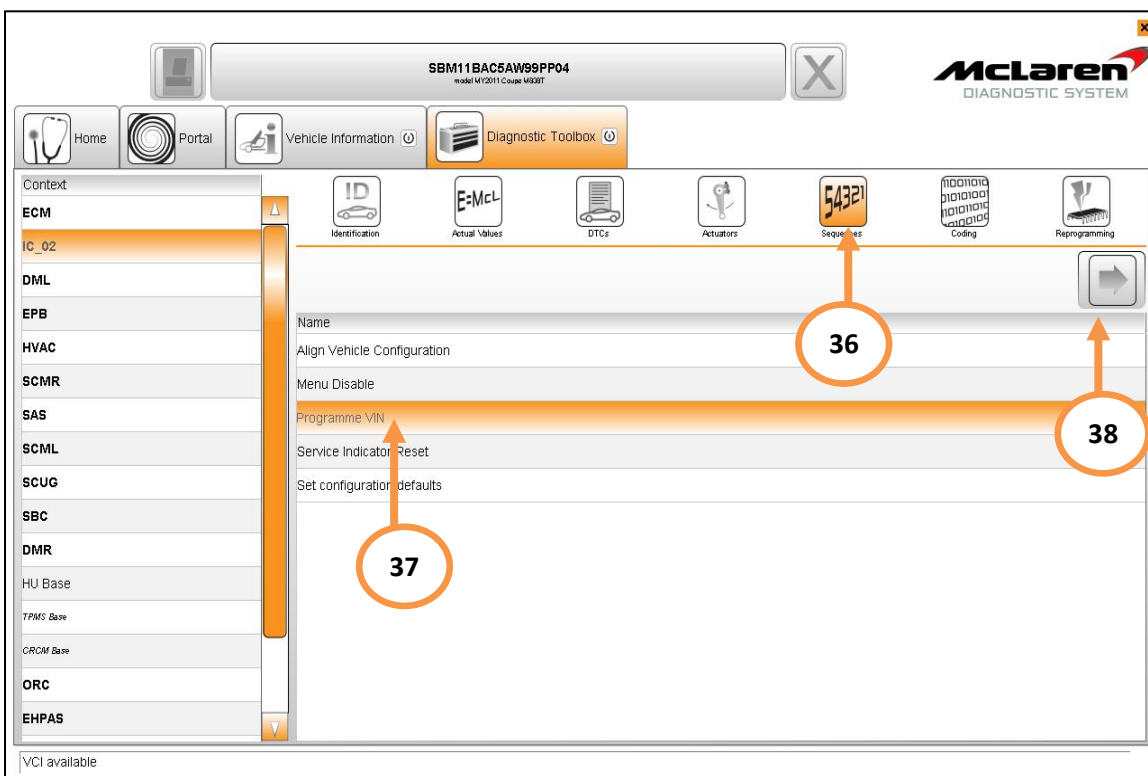
14. Once the download is successful enter the reprogramming section (29) and select the chassis button (30) to re-enter the scan now page. It is necessary to re-scan the vehicle.



15. Once the vehicle has been re-scanned proceed to the Diagnostic toolbox (31). Select the Instrument Cluster button which will have changed to IC-02 (32). Enter the coding section (33). Check the VIN number displayed is correct and select (34). Click OK to continue (35).

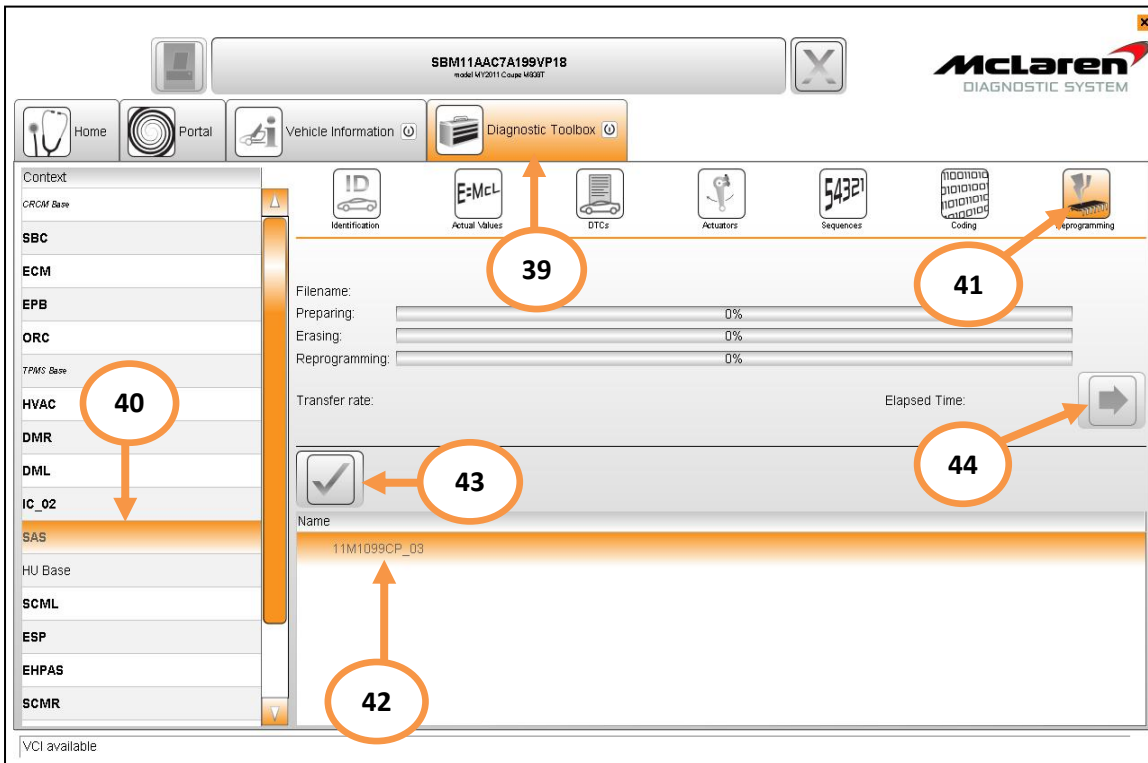


16. Once the download is successful enter the Sequences section (36) and proceed to Programme VIN (37). Click arrow button when complete. (38).



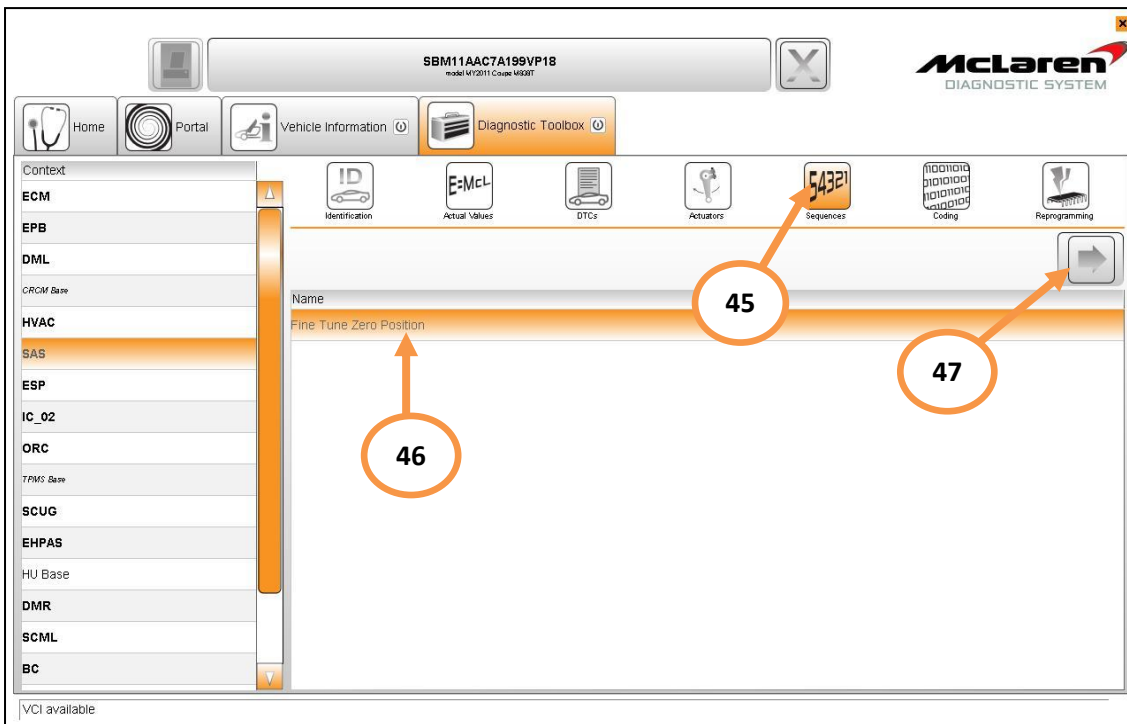
STEERING ANGLE SENSOR SOFTWARE

17. Within MDS proceed to the Diagnostic Toolbox (39). Select SAS (40) then reprogramming (41). Select software level 11M1099CP.03 (42) and proceed to the download by selecting the tick button (43) followed by the arrow button (44).

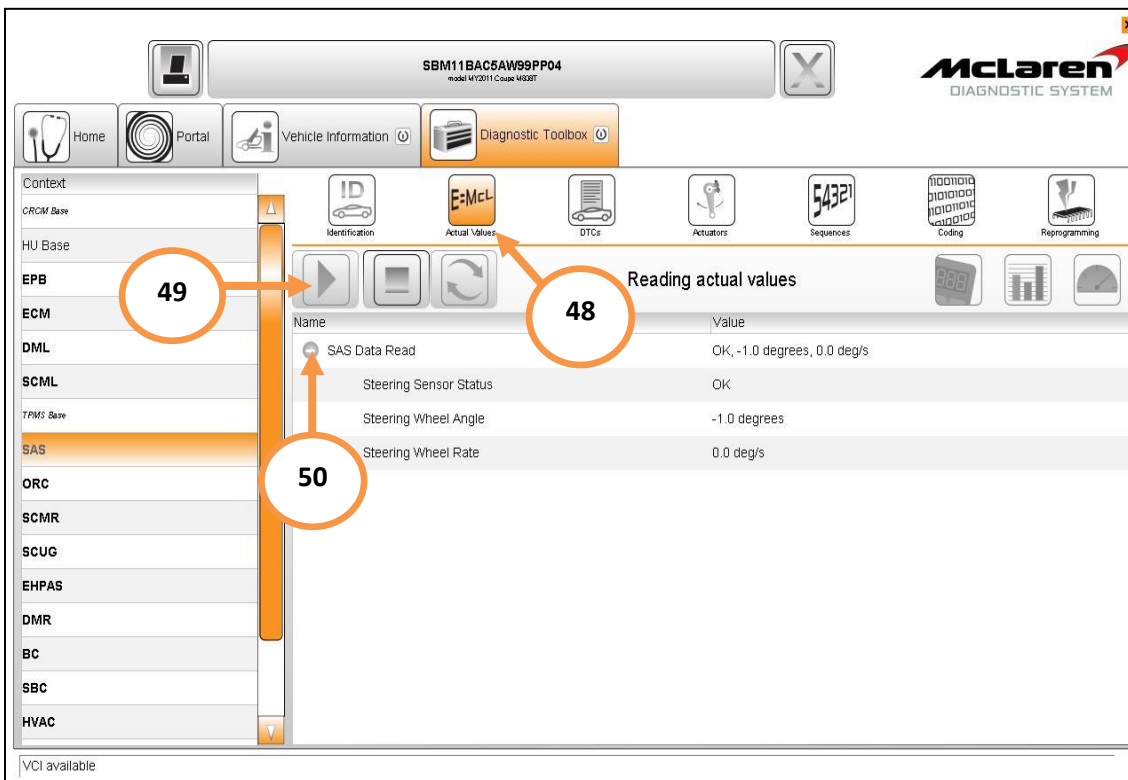


Care point: Ensure front wheels are pointing straight ahead before continuing.

18. Once the latest software has been installed you will be required to fine tune the zero position. Still within the SAS section select the Sequences section (45) and select the Fine Tune Zero Position tab (46) then press the arrow button (47).



19. Check for any stored Diagnostic Trouble Codes (DTC's) within the DTC's section. If there are any stored codes, clear them down.
20. Switch on ignition so engine is running. Select Actual Value (48) followed by the SAS Data Read (49). Select the play button to access the require data screen (50). Turn the steering wheel left and right at full lock. Check that the Value reading is zero when steering is central. Check if DTC's have re-occurred.



21. If DTC's have re-occurred after an ignition cycle it is necessary to contact your Regional Aftersales Manager with the results. Otherwise switch the engine off and ensure the vehicle is still in ignition state 5 in order to continue on with the download process.

Care point: Switch off mains electricity before removing the battery charger.

22. Disconnect Deutronic battery charger.

23. At this point the work can be claimed as a work package. However, it will now be necessary to complete Bulletin 11 M 020 "Software and rework requirements (8.2.2)".

WARRANTY INFORMATION

DESCRIPTION	RESOLUTION CODE	TOTAL REPAIR TIME
Update software platform	E0F101J6A33A4A01	1.0

PARTS INFORMATION

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

The USB drive as be supplied directly from the McLaren Technology Centre at no charge to the dealer.