

## SERVICE CAMPAIGN BULLETIN

TITLE:	Vehicle Software Update to Platform 4.2
CAMPAIGN REFERENCE	03V
DOCUMENT NUMBER:	13 M 001
AFFECTED VEHICLES:	Sports Series
SITUATION:	Quality Engineering at McLaren Automotive have released a new software platform for the Sports Series The customer benefits of this software are: Improve functionality of nose lift operation Improve HVAC temperature control Improve AIS IRIS to prevent system freeze Introduction of Gen2 12v battery software
PROCEDURE:	It is necessary to update the software and replace the TPMS module on all 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
Front Wiper Motor (FWM)	13A6451CP.02 LHD 13A6452CP.02 RHD
Intelligent Battery Sensor (IBS)	13M1080CP.12
Instrument Cluster (IC)	13M1646CP.04
Body Controller (BC)	13M1276CP.06
Security Body Controller (SBC)	13M1275CP.07
Switch Control Unit Gateway (SCUG)	13M0487CP.04
Door Module Left (DML)	13M0778CP.04
Door Module Right (DMR)	13M0779CP.04
Heating Ventilation and Air-Conditioning (HVAC)	13M0489CP.08
Electronic Stability Program (ESP)	13M0932CP.08
Seat Control Module Left (SCML)	13N2632CP.10
Seat Control Module Right (SCMR)	13N2632CP.10
Powertrain Chassis Control Unit (PCCU)	13M0829CP.07
Engine Control Module (ECM)	13M1465CP.03 570S European/ROW 13M1340CP.03 570S Federal 13M1470CP.03 540C European/ROW 13M1469CP.03 540C Federal
Head Unit (HU)	13MA053CP.01 Europe 13MA054CP.01 ROW 13MA055CP.01 China 13MA056CP.01 Japan



## Removal:

1. CA-RM-01A001-00-001 - Secure/Lift vehicle on platform .

Care Point: Right hand wheel arch liner only.

- 2. CA-RM-04B005-01-001 Remove/Install wheel Rear .
- 3. CA-RM-03A076-02-001 Remove/Install wheel arch liner Rear .

4. CA-RM-07M002-12-001 - Remove/Install control unit/antenna - Tyre Pressure Monitoring System (TPMS)

#### Installation:

5. Install the components in reverse order.

6. Remove the battery access cover to allow access to the 12 volt battery.

#### **Requirements:**

**Care Point:** In order to avoid personal injury and damage to the vehicle, do not connect the positive terminal (+) of the charger 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.

7. Connect Deutronic battery charger to the 12V battery and leave it connected during software reprogramming procedure. 8. Connect the McLaren Diagnostic System (MDS) to the vehicle.

**Care Point:** If the VCI is connected to the MDS via the USB cable please ensure the wireless interface is disabled in the VCI Manager.

Care Point: Both the driver and passenger windows must be in the fully open position during software reprogramming procedure.

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

Care Point: The key must be positioned in the driver's seat front pocket (1).





## **TPMS configuration**

	SBM13DAC7GW000054 model M/2016 Coupe_5705 M838T	
Home Portal	tehicle information () Diagnostic Toolbox ()	
Context EHPAS	Identification Actual Values DTCs 2	
ESP FWM Base		
HU_02 HVAC	Name TPMS Configuration	
	Programme VN	
PCCU SAS		
SBC 1		
SCMR SCUG		
TPMS TO Available		

9. Select TPMS (1), then Sequences (2), select TPMS Configuration (3). Proceed by selecting the arrow button (4).

10. Select Program VIN (5). Proceed by selecting the arrow button (4).

## FWM Software Update:

Care Point: FWM\_Base may be displayed in italics.

11. Select FWM (1), then Reprogramming (2), the correct software level for the vehicle will be displayed (3). Proceed to the software download by selecting the arrow button (4).

			SBM13DAC7G model MY2016 Coup	W000054 be_570S M838T		X		
Home Portal	Ve	ehicle Information 🔘	Diagnostic To	oolbox 🕖			$\frown$	
Context BC	4	Identification	E:McL Actual Values	DICs	Actuators	543E1	2	Reprogramming
DML DMR 1		Filename: 134	A5424CP 02		gramming can be	e started		
ECM EHPAS		Preparing: Erasing: Depregramming:			0%			
ESP		Transfer rate:			076		(	
HU_02 HVAC								
IBS Base								
ORC PCCU								
SAS SBC	Ţ							



## **IBS Software Update:**

**Care Point:** *IBS\_Base* may be displayed in italics.

12. Select IBS (1), then Reprogramming (2), the software level 13M1080CP.12 will be displayed (3). Proceed to the software download by selecting the arrow button (4).

		SBM13DAC7G model MY2016 Coup	W000054 e_570s M838T				
Home Portal	Vehicle Information	Diagnostic To	oolbox 🕖			$\frown$	
Context BC		E:McL	DICs	Artuators	54321	2	Reprogramming
DML				ogramming can be	e started		repogramming
ECM EHPAS	Preparing: 13M Erasing:	1080CP_10	<u> </u>	0% 0%			
ESP 1	Reprogramming:			0%		4	
HU_02 HVAC							
IBS Base							
ORC							
PCCU							
SAS	V						



### IC Software Update:

Care Point: Ensure that you have read 13S001 Instrument Cluster (IC) reprogramming via USB method .

**Care Point:** During the IC programming phase a "Post Condition Failed" message will illuminate, please ignore the message as it does not affect the programming of the module.

Care Point: The IC will need to be reprogrammed twice during this update.

13. Select IC (1), then Reprogramming (2), select software level 13M1642CP.02 (3). Proceed to the software download by selecting the arrow button (4).

		SBM13DAC7GW000054 model MY2016 Coupe_570S M838T			м	:Laren
Home Portal	Vehicle Information	Diagnostic Toolbox (0)				INDSTIL SYSTEM
Context BC Base DML Base	Identification	E:McL Actual Values DTCs	Actuators	54321 Sequences	2	Reprogramming
DMR Base ECM Base	Filename:					
EHPAS Base	Preparing: Erasing: Reprogramming:		0% 0% 0%		$\sim$	
ғим ғы ни ва	Transfer rate:			E	ela 4	
HVAC Base	Name	$\frown$				
ORC Base	13M1642CP_02	<b>-</b> (3)				
SAS		$\smile$				
VCI available						



14. In the next screen you will be asked to select between CAN or USB.

15. Select USB to reprogram the IC via USB to proceed (5).

		SBM13CAB8F model MY2015 Coup	W000001 a_540C M838T		X		
Home Port	/ehicle Information 0	Diagnostic To	olbox 🔘				
Context BC Base	ID	E=MCL			54321	חוסווססו הסוסוסוכו חוסווסוסו	2
Base	Identification	Actual Values	DTCs	Actuators	Sequences	Coding	Reprogramming
ML Base							
DMR Base	Filename: 13M	0783CP_05		00/			
CM Base	Erasing:			0%			
HPAS Base	Reprogramming:			0%			
WM Base	Transfer rate:					Elapsed Time:	
HU Base	It is possible to update	e Software to this module	e via two different met	hods, either standard V	/CI over CAN download	or Ethernet to USB.	The USB download
IBS Base	McLaren Special Too download to remove i	13S0588CP.01 to delive t from your local network	er the data direct to th and access the addit	te IC, to use this metho ional vehicle USB socke	d you will need to briefly et; the location will vary	y reconfigure your M between vehicles. F	DS tablet c ollow SIS
c	CA-RM-07M002-09-0	01 - Remove/install instr	ument cluster (IC) for	additional information			5
ORC Base	CAN download metho	d will take approximately	4 hours				
PCCU Base	USB download metho	d will take approximately	6 minutes	a this constants			
SAS	Please use the buttor	is delow to select which	process you will use to	or this update			CAN
SBC Base							
SCML Base							

16. Once reprogramming has completed Programming failed will be displayed (6).

			SBM13DAC7G model MY2016 Coup	W000054 e_570S M838T		X		
	tal	Vehicle Information	Diagnostic To	oolbox O				
Context			[T-Mc]		C3	[[52]]	110011010	1
BC Base			E-MILE		~~	2426	10101010	
DML Base		Identification	Actual Values	DTCs	Actuators	Sequences	Coding	Reprogramming
DMR Base					Programming fa	iled		
ECM Base		Filename: 13M	1642CP_02					
		Preparing:			100%			
EIII Ao base		Reprogramming:			100%			ð
ESP base								
WM Base		Transfer rate: 943	440 / 943440 bytes - 38	75 bytes/sec			Elapsed Time: 0	0:04:47
HU Base								
HVAC Base								
IBS Base								
IC								
ORC Base	L							
PCCU Base								
SAS								
SBC Base								6
000 0000	V							



17. Select Reprogramming (7), select software level 13M1646CP.04 (8). Proceed to the software download by selecting the arrow button (9).

		SBM13DAC7G model MY2016 Coup	W000054 e_570S M838T		X		
Home Portal	Vehicle Information	Diagnostic To	olbox 🔘			$\frown$	
Context BC Base		E:McL Actual Values	DTCs	Actuators	54321 Sequences	7	Reprogramming
DML Base DMR Base							
ECM Base	Filename: Preparing:	1		0%			
EHPAS Base ESP Base	Erasing: Reprogramming:			0% 0%		1	
FWM Base	Transfer rate:					eia 9	
HU Base HVAC Base							
IES Base	Name						
IC ORC Base	13M1642C	P_02					
PCCU Base	13M1646C	P_04	Ů				
SAS SBC Base							
VCI available							

18. Repeat steps 14 to 15 and Programming failed will be displayed again as mentioned at step 16.

#### Post Reprogramming requirements:

19. IC software level confirmation needs to be performed. Confirm the IC software levels are the same as the screenshot below (10). If they are the same proceed to step 20. If they are incorrect raise a technical request with IC software level information.

		AU1707	X
	SBM13DAC7GW000054 model MY2016 Coupe_570S M8381	T	
Home Portal	Vehicle Information		
Context			
BC Base			
DML Base	Identification Actual Values DTC	s Actuators Sequences	Coding Reprogramming
DMR Base			
ECM Base	Name	Value	
EHPAS Base	Identification Block Read	1519, 1410, 1626	6, 0, 13M1646CP.04., Pektron, 1446
ESP Base	Application Software ID	P0754W01U_	
FWM Base	VIN	SBM13CAB8FW0	000001
HU Base	McLaren S12 Application Part Number	13M1646C	P 04
HVAC Base	McLaren o 12 Application 1 ar Number	1011104001	1.04.
IBS Base	McLaren Emerald Application Part Number	13M1641C	P.04.
IC	McLaren Emerald Kernel Part Number	13M1640C	P.01.
ORC Base	McLaren_Emerald_UBoot_Part_Number	13M1639C	P 01
PCCU Base		.544100501	
SAS			
SBC Base	V		10
VCI available			



20. Once the reprogramming has been completed successfully the wireless function must be enabled once again if you are using the VCI wireless.

- 21. Disconnect all the cables from the vehicle and keep them in a safe place.
- 22. Install components in reverse order and allow vehicle to sleep for 15 minutes before proceeding to next step.
- 23. Select Coding (11), followed by the arrow key (12) to write the new IC coding string.



24. Select Sequences (13), select Set configuration defaults (14) then select the arrow button to proceed (15). 25. Select Align Vehicle Configuration (16), followed by the arrow key (15).

	SBM13DAC7GW000054 model MY2016 Coupe_570S M838T	
Home Portal	Vehicle Information () Diagnostic Toolbox ()	
Context BC		
DML DMR	iuerimicatorii Actual values DTCS Sequences	
ECM EHPAS	Name Align Vehicle Configuration	
ESP	Enter last Service data	
FWM Base	Programme VIN Read Last Service data	
HVAC	Service Indicator Reset	
IES Base	Set configuration defaults 4 14	
ORC	Transport Mode	
PCCU SAS		
SBC	<b>V</b>	



## BC Software Update:

26. Select BC (1), then Reprogramming (2), the software level 13M1276CP.06 will be displayed (3). Proceed to the software download by selecting the arrow button (4).

	SBM13DAC7GW000 model Mr2016 Coupe_570	0054 IS Ma3eT		
Home Portal Context	Vehicle Information () Jenification Actual Values Filename: 13M1276CP_04 Freparing: Erasing: Reprogramming. Transfer rate:	CO DTCs Aduators gramming can bu 3 05 05 05 05	Les started	
SBC	7			

27. Select Sequences (5), then Programme VIN (6), then select the arrow button to proceed (7).

	SBM13DAC7GW000064 model M/2016 Coupe_570S M838T	
Home Portal	Vehicle Information () Diagnostic Toolbox ()	
Context BC	Identification Actual Values DTCs 5 Sequences	hibalian platalar hibalian valian Codi Codi Reprogramming
DMR		
ECM EHPAS	Name Parking Sensor Diagnostic Activation	
ESP FWM Base	Align Vehicle Configuration Programme VIN	
HU_02 HVAC		
IES Base	6	
ORC PCCU		
SAS SBC	-	





28. Select Align Vehicle Configuration (8), followed by the arrow key (9).



## SBC Software Update:

29. Select SBC (1), then Reprogramming (2), the software level 13M1275CP.07 will be displayed (3). Proceed to the software download by selecting the arrow button (4).

							X
		SBM13DAC7G model MY2016 Coup	W000054 e_570S M838T		X		
Home Portal	Vehicle Information	Diagnostic To	oolbox (0)				
Context EHPAS		E=MCL			54321	2	
ESP		Actual values	DICS	Actuators	Sequences	3	Reprogramming
FWM Base	Filonomo: 42M	107500 09	2	ogramming can be	e started		
HU_02	Preparing:	12/3CP_05		0%			
HVAC	Erasing:			0%			
IBS Base 1	Reprogramming.			0%			
IC	Transfer rate:					4	
ORC							
PCCU							
SAS 🔶							
SBC							
SCML							
SCMR							
SCUG							
TPMS	V						

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

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

32. Select Sequences (5), then Programme VIN (6) then select the arrow button to proceed (7). The programme VIN procedure will force a sleep cycle to occur after the programming is complete.

		×
	SBM13DAC7GW000064 model M72016 Coupe_5705 M338T	
Home Portal	Vehicle information () Diagnostic Toolbox ()	
Context		7
EHPAS		11111
ESP		
FWM Base		
HU_02	Name	
HVAC	Set ECU Configuration	
IBS Base	Read ECU Configuration	
IC	Key Programming	
ORC	Un-pair Immobilizer	
PCCU	Alarm History	
SAS	Align Vehicle Configuration	
SBC	Key Test	
SCML	LF Antenna Continuity Test	
SCMR	Programme VIN - 6	
scug		
TPMS		



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

	34. Select Align Vehicle Configuration	(8), followed by the arrow key (9).
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			SBM13DAC70 model MY2016 Cou	GW000054 pe_570S M838T		X		
Home Portal	<b>Z</b>	ehicle Information	Diagnostic T	oolbox 🕡				
Context EHPAS	4		E=McL		Advatara	54321	הסווססו סססוסוסו וססווסוכ ווסווסוכ	Record
ESP FWM Base			Actual values	Dics	Addators	Sequences	9	
HU_02		Name						
HVAC IES Base		Set ECU Configuration Read ECU Configuration	on					
IC		Key Programming						
PCCU		Un-pair Immobilizer Alarm History		$\frown$				
SAS		Align Vehicle Configura	ation 🔸	8				
SBC		Key Test	Test	$\smile$				
SCMR		Programme VIN						
SCUG								

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

## SCUG Software Update:

36. Select SCUG (1), then Reprogramming (2), the software level 13M0487CP.04 will be displayed (3). Proceed to the software download by selecting the arrow button (4).

							X
		SBM13DAC7GV model MY2016 Coupe	V000054 _570S M838T				
Home Portal	Vehicle Information	Diagnostic Too	olbox 🔘			$\frown$	
Context EHPAS		E=McL			54321	2	
ESP	Identification	Actual Values	DTCs	Actuators	sequences		Reprogramming
HU_02	Filename: 13M Preparing:	0487CP_02	3	0%			
HVAC IBS Base	Erasing: Reprogramming:		$\sim$	0% 0%		(	
	Transfer rate:					4	
PCCU 1							
SBC							
SCML SCMR							
SCUG TPMS							



	-	SBM13DAC7GW000054 model M1/2016 Coupe_570S M838T			
Home Portal	rehicle Information () Diagnostic Tool	box (0)	$\frown$	6000000	
BC 4	ID E:Mal		5	0101010	2
DML	Identification Actual Values	DTCs Actuators		Coding Rep	rogramming
DMR		$\frown$	<u> </u>		
ECM	Status Name				
EHPAS	Write_code_string	6			
ESP	Write_VIN				
FWM					
HU_02					
HVAC					
IBS					
IC					
ORC Base					
PCCU					
SAS					
SBC					
SCML					
SCMR					
scug					
TPMS					

37. Select Coding (5), then Write\_code\_string (6), then select the arrow button to proceed.

38. Select Sequences (5), select Steering Column Calibration (6) then select the arrow button to proceed (7).

	SBM13DAC7GW000054 model WY2016 Coupe_5705 M838T	
Home Operation of the second s	Hame Steering Column Calibration Steering Column Calibration 6	Reprogramming



## DML Software Update:

39. Select DML (1), then Reprogramming (2), the software level 13M0778CP.04 will be displayed (3). Proceed to the software download by selecting the arrow button (4).

							×
		SBM13DAC7G model MY2016 Coupe	W000054 e_570S M838T		X		
Home Portal	Vehicle Information ①	Diagnostic To	olbox 🛈				
Context BC	ID Corr	E=MCL		<b></b>	5432	2	
DML	Identification	Actual Values	DTCs	Actuators	Sequences	uing	Reprogramming
DMR				gramming can be	started		
ECM	Filename: 13M	0778CP_02	3	0%			
EHPAS	Erasing:			0%			
ESP 1	Reprogramming:			0%			
FWM Base	Transfer rate:					4	
HU_02							
HVAC						$\sim$	
IBS Base							
IC							
ORC							
PCCU							
SAS							
SBC							
	-						

40. Select Sequences (5), select Align Vehicle Configuration (6), followed by the arrow key (7).41. Select Window Calibration (8), followed again by the arrow key (7).

	SBM13DAC7GW000054 model M/2016 Coupe_5705 M38T	
Home Portal	ehicle Information 💿 Diagnostic Toolbox 🕡	
Context BC L DML	8 EMCL Joines DTCs 5 Sequences	ficoniona piconiona inclination rationation Reprogramming
DMR ECM	Name	
ESP FWM Base	Window Calibration Align Vehicle Configuration 6	
HU_02 HVAC		
IES Base		
ORC CU		
SAS SBC		



## **DMR Software Update:**

42. Select DMR (1), then Reprogramming (2), the software level 13M0779CP.04 will be displayed (3). Proceed to the software download by selecting the arrow button (4).

		SBM13DAC7G model MY2016 Coupe	W000054 e_570S M838T				McLaren
Home Portal	/ehicle Information ()	Diagnostic To	olbox 🛈				DIAGNOSTIC SYSTEM
Context BC	ID	E=McL Actual Values	DTCs	Actuators	54321 Sequences	2	Reprogramming
DML DMR	Filename: 13M	1779CP 02	3	gramming can be	started	<u> </u>	
ECM EHPAS	Preparing:	5/1301_02	Ĵ	0%			
ESP FWM Base 1	Transfer rate:			0%		(	
HU_02 HVAC							
IES Base							
ORC PCCU	J						
SAS SBC							

43. Select Sequences (5), select Align Vehicle Configuration (6), followed by the arrow key (7).44. Select Window Calibration (8), followed again by the arrow key (7).

		X
	SBM13DAC7GW000054 model MY2016 Coupe_5705 M838T	
Home Portal	Vehicle Information	
Context		
BC	Identi Values DTCs Sequences	Reprogramming
DMR		
ECM		
EHPAS	Name Window Calibration	
ESP	Align Vehicle Configuration	
FWM Base	Programme VIN	
HU_02		
HVAC		
IBS Base		
IC		
ORC	-	
PCCU		
SAS		
380	<u>.</u>	



## HVAC Software Update:

45. Select HVAC (1) then Reprogramming (2), the software level 13M0489CP.08 will be displayed (3). Proceed to the software download by selecting the arrow button (4).

							(	3
		SBM13DAC7G model MY2016 Coup	W000054 e_570S M838T		X			•
Home Portal	Vehicle Information	Diagnostic To	oolbox 🔘					
Context BC		E=MCL			54321	2		
DML DMR		Actual values	Dics	ramming can be	e started	<u> </u>	Keprogramming	-
ECM	Filename: 13M Preparing:	0489CP_04		0%				
EHPAS	Erasing:			0%				
ESP	Reprogramming.			0%				
FWM Base	Transfer rate:						4	
HU_02								1
HVAC								
IBS Base								
IC								
ORC								
PCCU 1								
SAS								
SBC								
L								-

#### ESP Software Update:

46. Select ESP (1), then Reprogramming (2), the software level 13M0932CP.08 will be displayed (3). Proceed to the software download by selecting the arrow button (4).

				X
	SBM13DAC7 model MY2016 Co	7GW000054 upe_570S M838T		
Home Portal	Vehicle Information () Diagnostic	Toolbox 🔘		
Context BC			<b>54321</b> 2	
DML DMR		mming can	be started	g Reprogramming
ECM EHPAS	Filename: 13M0932CP_03 Preparing: Erasing:	0%		
ESP FWM Base	Reprogramming:	0%	(	
HU_02				
IBS Base				
PCCU SAS				
SBC				



Care Point:- If either seat modules does not flash successfully do not attempt to reflash again, raise a technical request.

### SCML Software Update:

**Care Point:** Both doors must be closed and the seat must not be operated during reprogramming, failure to do this will cause the seat to no longer function.

47. Select SCML (1), then Reprogramming (2), the software level 13N2632CP.10 will be displayed (3). Proceed to the software download by selecting the arrow button (4).



48. Select Sequences (5), select Seat Calibration (6), followed by the arrow key (7).

			×
	SBM13DAC7GW000054 model MY2016 Coupe_570S M838T	X	
Home Portal	Vehicle Information 💿 Diagnostic Toolbox 💿		
Context EHPAS		<b>54321</b>	
ESP FWM Base		Sequences	
HU_02	Name		
HVAC	Seat Calibration 🗲 6		
IBS Base			
IC			
ORC			
PCCU			
SAS			
SBC			
SCML			
SCMR			
scug			
TPMS			



#### SCMR Software Update:

**Care Point:-** Both doors must be closed and the seat must not be operated during reprogramming, failure to do this will cause the seat to no longer function.

49. Select SCMR (1), then Reprogramming (2), the software level 13N2632CP.10 will be displayed (3). Proceed to the software download by selecting the arrow button (4).



50. Select Sequences (5), select Seat Calibration (6), followed by the arrow key (7).



51. Switch the ignition off and place the vehicle into a sleep mode, and then establish the vehicle back into ignition state 5. 52. Perform a DTC read and clear from all modules.



### PCCU Software Update:

**Care Point:** During the reprogramming of the PCCU 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.

53. Select PCCU (1), then Reprogramming (2), the software level 13M0829CP.07 will be displayed (3). Proceed to the software download by selecting the arrow button (4).



54. Cycle the ignition (off 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.

55. Select PCCU (5), then Sequences (6), select Align Vehicle Configuration (7), followed by the arrow key (8).

	SBM13DAC7GW000064 model M12016 Coupe_5705 M838T	
Home Portal	Vehicle Information () Diagnostic Toolbox ()	
Context EHPAS	I I I I I I I I I I I I I I I I I I I	Reprogramming
ESP FWM Base	8	
HU_02	Name	
IBS Base	Un-pair immobilizer	
IC	Suspension Displacement Sensor Calibration	
ORC	Dual Clutch Calibration	
PCCU	Align Vehicle Configuration 🔶 7	
SAS	Clear Gear Adaptations	
SBC	Set ECU Configuration	
SCML	Programme VIN	
<b>scm</b> 5	Nose Lift Sensor Calibration	
scug	Nose Lift Maintenance	
TPMS	Hydraulic Contamination Cleaning	



	SBM13DAC7GW000054	McLaren
		DIAGNOSTIC SYSTEM
Home Portal	Vehicle Information (i) Diagnostic Toolbox (i)	
Context		
EHPAS	Identification Actual Values DTCs Actuators Sequences	Reprogramming
ESP		
FWM Base		10
HU_02	Name	
HVAC	Extended Snapshot Data	
IBS Base	Un-pair Immobilizer	
IC	Suspension Displacement Sensor Calibration	
ORC	Dual Clutch Calibration	
PCCU	Align Vehicle Configuration	
SAS	Clear Gear Adaptations	
SBC	Set ECU Configuration	
SCML	Programme VIN	
SCMR	Nose Lift Sensor Calibration	
scug	Nose Lift Maintenance	
TPMS	Hydraulic Contamination Cleaning	
·		

56. Select Programme VIN (9), followed by the arrow key (10).

57. Select Dual Clutch Calibration (11), followed by the arrow key (12) and the clutch calibration will be performed.

	SBM13DAC7GW000054 model Mr2016 Coupe_5705 M838T	
Home Portal	Vehicle Information 💿 Diagnostic Toolbox 💿	
Context EHPAS	LI Lidentification Actual Values DTCs Actual or Sequences	ficionica hotoinoo hotoinoo hotoinoo hotoinoo autoinoo Reprogramming
ESP FWM Base		
HVAC	name Extended Snapshot Data	
IC	Un-pair immobilizer Suspension Displacement Sensor Calibration	
ORC	Dual Clutch Calibration 11	
SAS	Clear Gear Adaptations	
SBC	Set ECU Configuration Programme VIN	
SCMR	Nose Lift Sensor Calibration	
TPMS	V Hydraulic Contamination Cleaning	



58. Allow vehicle to sleep fully, then switch the ignition back on and perform a DTC read and clear for all modules.

#### ECM Software Update:

59. Select ECM (1), then Reprogramming (2), the software variant applicable to your market will be displayed (3). Proceed to the software download by selecting the arrow button (4).



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



61. Press the stop/start button with the brake pedal depressed to start the engine and allow it to idle until fully warm. **Care Point:** Vehicles installed with air conditioning must be switched on and the engine coolant temperature must be above 80°C before proceeding with the camshaft adaption procedure.

62. Select ECM (5), then Actual Values (6), select the following values as per the screenshot below (7), then select the play button to access the required data screen.

63. The inlet camshaft values should be between 9 and 12 and exhaust values should be between -9 and -12 both values will fluctuate slightly. If all values are correct no further action is required proceed to step 65. If any values are incorrect proceed to step 64 to carry out the camshaft adaption.





64. 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 1/4 before you proceed to the Diagnostic Module Leakage Test (DMTL).

Care point: The DMTL test can take up to eight minutes to complete the 20 thou and 40 thou leak test

65. Select Sequences (8), then DMTL Diagnostic Module Leakage Test (9), followed by the arrow button to proceed (10).

Home Portal	Vehicle Information 💿 🗾 Diagnostic Toobox 💿
Context IC 02	
HVAC CROM Barry	
ESP	Name
SAS	Un-pair Immobilizer
TPMS	Clear Misfre adaptations
ORC	Start throttle adaption
DMR	Save throttle adaption
ECM	DTML Diagnostic Module Tank Leakage Test 🚽 9
EHPAS	Programme VN
SCUG	
HU	
SCMR	
EPB	
SBC	
DML	
BC	
SCML	
PCCU	
VCI available	

66. Perform a DTC read and clear from all modules.

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



## **IRIS AIS Application Software:**

Care Point: The Application Software will be supplied via USB to dealers.

**Care Point:** Do not turn off the engine or change the ignition state during the update process unless stated within this update procedure.

68. Switch the ignition ON to ignition state 5 and start the engine.

69. Make a note of the options displayed on the Home Screen as this information will be required to configure the head unit. 70. Insert the USB drive with the application software into the USB socket (1).



71. Once the USB has been inserted, the system should provide a message stating a USB device has been detected.

- 72. Press the Settings hard button on the IRIS console.
- 73. Select About (2) and then Update Product (3).

*	
SETTINGS	ABOI
WIRELESS & NETWORKS	
MERIDIAN	3
VOLUME SETTINGS	
LANGUAGE & KEYBOARD	<b>BUILD</b> V2.1.51.x
ADVANCED SETTINGS	SERIA
DISPLAY OFF	





74. On the following screen select Update by USB Stick (4). A pop up message will be displayed. Press OK (5) to start the loading operation.



75. The following screen will be displayed (6) and the system will reboot.





76. After the system has rebooted it will search for and check the update file (7). Once the installation has finished the following screen will be displayed (8) and the system will reboot.



77. Following the reboot the system will start to update the individual system components (9), (10). During the update the system may reboot multiple times. This is normal, **do not attempt a manual reset.** 







**Care Point:** In case the system should get stuck on the update screen if one of the component updates has failed, press and hold the home button for 45s to force the system to reboot.

78. Once all components have been updated and the system has fully rebooted, press the Settings hard button on the IRIS console.

79. Select About (11) and then select Versions (12).



80. Confirm that the McLaren Software Part Number matches the Part Number listed in Table at Page 2 of this document.81. Press the Home button on the IRIS console to return to the Home screen and remove the USB drive.

**Care Point:** For vehicles where the Learn Vehicle Model process has been completed previously the option will not be available on the Home screen. In this case go to step 83.

82. Select Learn Vehicle Model (13) from the Home Screen. The system will perform a configuration update and reboot. Wait until the system has fully booted to the Home screen before proceeding to the next step.





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

83. Select HU\_02 (1), then select Sequences (2), select Align Vehicle Configuration (3), followed by the arrow key (4). 84. Select Programme VIN (5), followed by the arrow key (4).



85. Select Head Unit Configuration (6), followed by the arrow key (7).

		X
	SBM11AAA1CW001617 model M12012 Coupe M838T	
Home Portal	Vehicle Information () Diagnostic Toolbox ()	
Context BC Base		
CRCM Base	Identification Actual Values DTCs Actuators Seque	ences Com Reprogramming
DML Base		
ECM Base	Name Alian Vehicle Configuration	
EHPAS	Programme VIN	
EPB	Head Unit Configuration	
HU_02		
HVAC		
ORC Base		
PCCU		
SAS Base		
VCI available		



			SBM11AAA1C model MY2012 C	CW001617 oupe M838T		X		
Home Portal	∕i∫v	ehicle Information	Diagnostic To	oolbox O				
Context BC Base	Δ	Identification	E:MCL Actual Values	DTCs	Actuators	54321 Sequences		Reprogramming
DML Base								
ECM Base EHPAS								
EPB ESP				Hea	d Unit Configura	tion		
HU_02 HVAC				Prec Batt Igni	condition: ery charger is continued on the second sec	onnected		
IC Base ORC Base				Eng	ne Off			
PCCU SAS Base							$\bigcap$	
SBC_02 VCI available	V						8	ок

86. The following screen will appear, select OK (8).

87. Select the relevant country followed by OK (9)

			SBM11AAA3C model MY2012 C	W000002 oupe M838T				
Home Portal	<b>⁄i</b> v	ehicle Information 0	Diagnostic To	oolbox 🕖				
Context BC	Δ	Identification	E:McL	DICS	Actuators	54321 Sequences		Reprogramming
DML								
		Choises			Please select cou	intry		
EHPAS		South Africa						<u> </u>
ЕРВ		Spain						
ESP		Sweden						
HU_02		Switzerland						
HVAC		Taiwan						
IC 03		Thailand						
ORC		ик						
PCCU		United Arab Emirates						
SAS		USA					$\frown$	
SBC_02	V						9	ок
VCI available								



Care Point: The following screen may not appear due to your market has no applicable options, proceed to step 89.

88. Select the relevant radio frequency option, followed by OK (10).

			SBM11AAA1C model MY2012 C	W001617 oupe M838T		X	
Home Portal	V	ehicle Information 0	Diagnostic To				
Context BC Base	Δ	ID	E:McL Actual Values	DTCs	Actuators	54321 Sequences	Reprogramming
DML Base							
DMR Base		-		Please	e select vehicle e	equipment	
ELM		Choices FM/AM					
EPB		FM/AM/DAB					
ESP		FM/AM/SXM					
HU_02							
HVAC							$\sim$
IC 03							10
ORC							
PCCU_02							$\mathbf{\gamma}$
SAS							
SBC_02							OK

89. Is rear view camera fitted, select Yes or No (11).

			SBM11AAA3C model MY2012 Co	W000002 upe M838T		X	
Home Portal	Ve	ehicle Information	Diagnostic To	olbox 🔘			
Context BC	L	Identification	E:McL Actual Values	DTCs	Actuators	54321 Sequences	Reprogramming
DML							
ECM EHPAS							
EPB ESP							
HU_02 HVAC				Is	rear view camer	a fitted	$\frown$
IC 03 ORC							(11)
PCCU							$\checkmark$
SBC_02 VCI available	V						No Yes



Care Point: The screenshot below may not appear due to database stored on the MDS may contain the VIN number.

90. Proceed and select No (12).

								×
			SBM11AAA3C model MY2012 Co	W000002 Dupe M838T		X		
Home Portal	<b>∕i</b>	ehicle Information 0	Diagnostic To					
Context BC	Δ	ID	E=MCL			54321		<b>V</b>
CRCM Base			Actual values	DICS	Actuators	Sequences	Coding	
DML								
ECM								
EHPAS								
EPB								
ESP		Entor DIN to ac	tivato Mel aron T	rack Tolomotry				
HU_02		Have you been	issued with a PI	N to active McL	aren Track Teler	netry please sel	ect Yes or NO	o proceed without
HVAC		activating						$\frown$
IC 03								12
ORC							· · · · · · · · · · · · · · · · · · ·	
PCCU								<b>1</b>
SAS								*
SBC_02	V							No Yes
VCI available								

91. Operation successful will be displayed. Select the back arrow to exit the sequence (13).





Care Point: Performing Factory Data Reset will delete the stored radio stations and paired phones.

- 92. Press the Settings hard button on the IRIS console.
- 93. Select Advanced Settings (14) and then Privacy (15) in order to access the Factory Data Reset.



94. Select Factory Data Reset (16) followed by Reset (17) and then Erase Everything (18).



95. The system will reboot. The Factory Data Reset will be completed once the system has returned to the Standby Screen.96. Wait until the system has fully rebooted, then switch the engine off and ignition back on.



## Adaptions Requirements:

	SBM11AADBCW000533 model#ICD11_Coupe.#838T	X	
Home Portal	Vehicle Information () Diagnostic Toobox ()	ficonorà	1
HVAC SAS	Literatication Actual Values DTCs 2 Sequences	noionoio angenoio Coding	Rez
IC 03	Name		
TPMS CRUI Inc.	Secondary Air Diagnosis		$\smile$
EPB	ECM Calibration selection for DLD		
DMR BC 1	Un-pair Immobilizer Clear Mistrie adaptations		
DML	Start throttle adaption		
ORC	Save throttle adaption		
SCAR, Bare	Programme VIN		
CANR Bare			
scug			
EHPAS			
ESP			
SBC	-		
VCI available	1		

97. Select ECM (1), then Sequences (2), then Clear Misfire adaptations (3), followed by the arrow button (4) to proceed.

98. Select Actual Values (5), select the following values as per the screenshot below (6), then select the play button to access the required data screen.





99. Misfire adaptations are performed whilst the car is driven with the gearbox set to manual mode and with the A/C off. 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).

100. 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.

101. Perform a DTC read and clear from all modules.

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



Warranty Information: Claim an additional 0.50 hours as an additional cost.

# WARRANTY INFORMATION

DESCRIPTION

RESOLUTION CODE

TOTAL REPAIR TIME

Software Platform Update to 4.2

CGMB0302A33I4A07

2.45 hours

## PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY	ORDER PROCESS
TPMS ECU/ANTENNA 433MHZ	13M1506CP	1	Unipart
TPMS ECU/ANTENNA 315MHZ	13M1507CP	1	Unipart

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