

SERVICE CAMPAIGN BULLETIN

CAMPAIGN REF : 007

TITLE : IRIS reception and operational stability issues

DOCUMENT # : 11 M 012

AFFECTED VEHICLES : 12C Coupe

SITUATION : Quality Engineering at McLaren Automotive have identified poor radio reception and software stability concerns on affected vehicles.

PROCEDURE : Follow the procedure below in order to rectify these concerns.

REMOVAL :

1. Please refer to A-RM-02A02-03-004 - Remove/Install luggage bin - rear
2. Please refer to A-RM-05M01-01-001 - Disconnect/Connect battery ground line
3. Please refer to A-RM-05M04-01-013 - Remove/Install lower control panel
4. Please refer to A-RM-05M04-01-007 - Remove/Install Start/Dynamic control panel
5. Please refer to A-RM-06N02-01-002 - Remove/Install tunnel console - upper

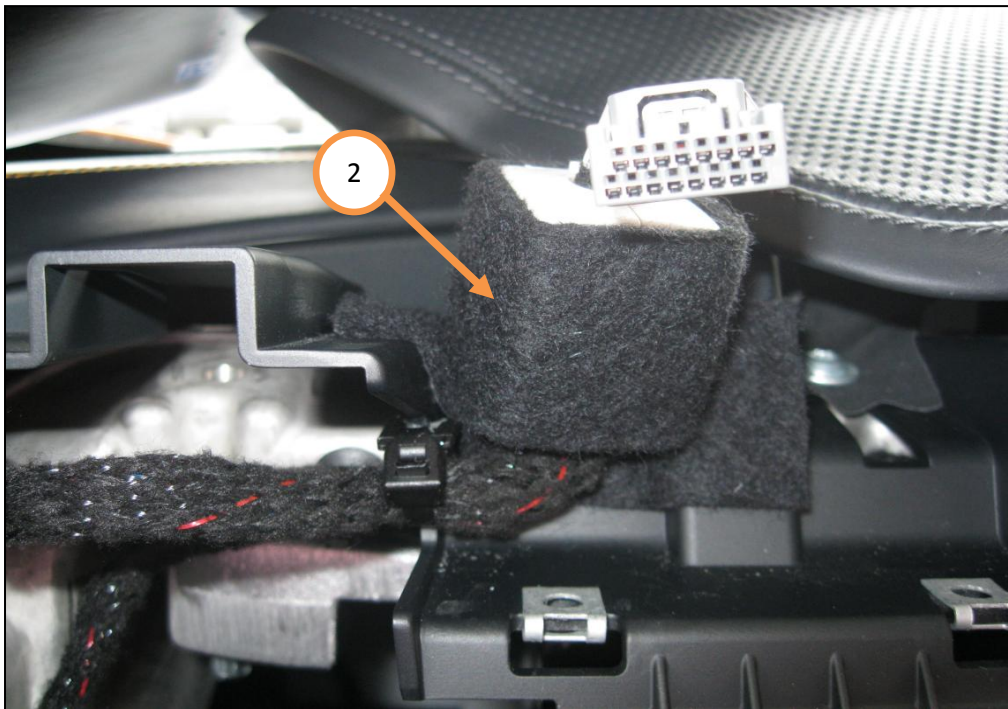
6. Please refer to A-RM-06N01-01-007 - Remove/Install facia - upper console
7. Please refer to A-RM-06N02-01-001 - Remove/Install tunnel console - lower
8. Please refer to A-RM-05M04-01-005 - Remove/Install head unit/HW High Line 1-Din IRIS
9. Please refer to A-RM-05M04-04-01-016 - Remove/Install instrument cluster
10. Please refer to A-RM-06N02-01-005 - Remove/Install HVAC shroud
11. Please refer to A-RM-05M03-01-005 - Remove/Install control unit – Heating Ventilation and Air-Conditioning (HVAC)
12. Please refer to A-RM-05M03-01-01-010 - Remove/Install control unit – switch (SCUG)
13. Please refer to A-RM-05M04-01-011 - Remove/Install – USB connection panel

Care Point: Ensure care is taken not to damage the leather on the instrument cluster cover when working in this area.

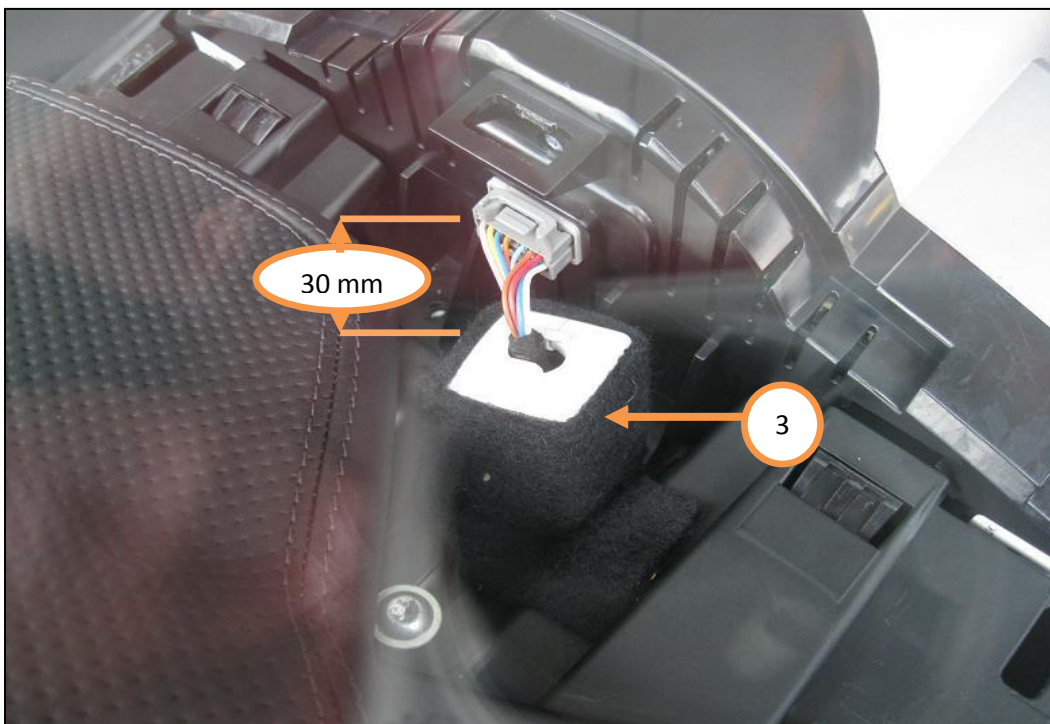
14. Apply 120mm of felt tape to the facia assembly as shown (1).



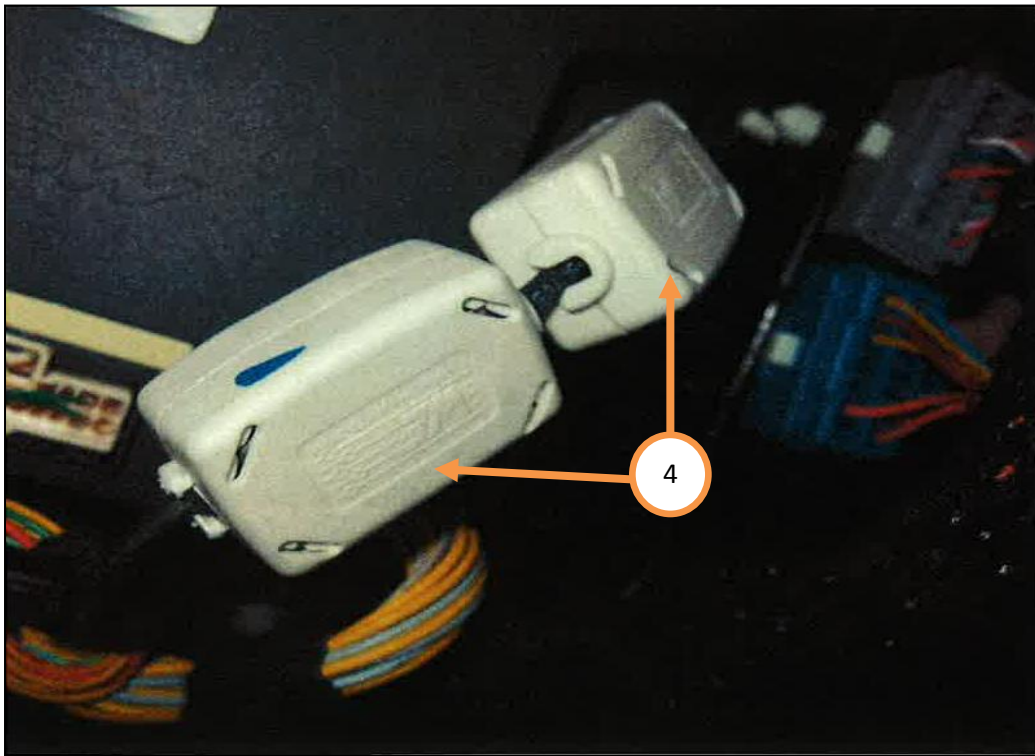
15. Fit ferrite (11M1420) to the instrument cluster leads (2). Fit approximately 30mm back from the rear connector.



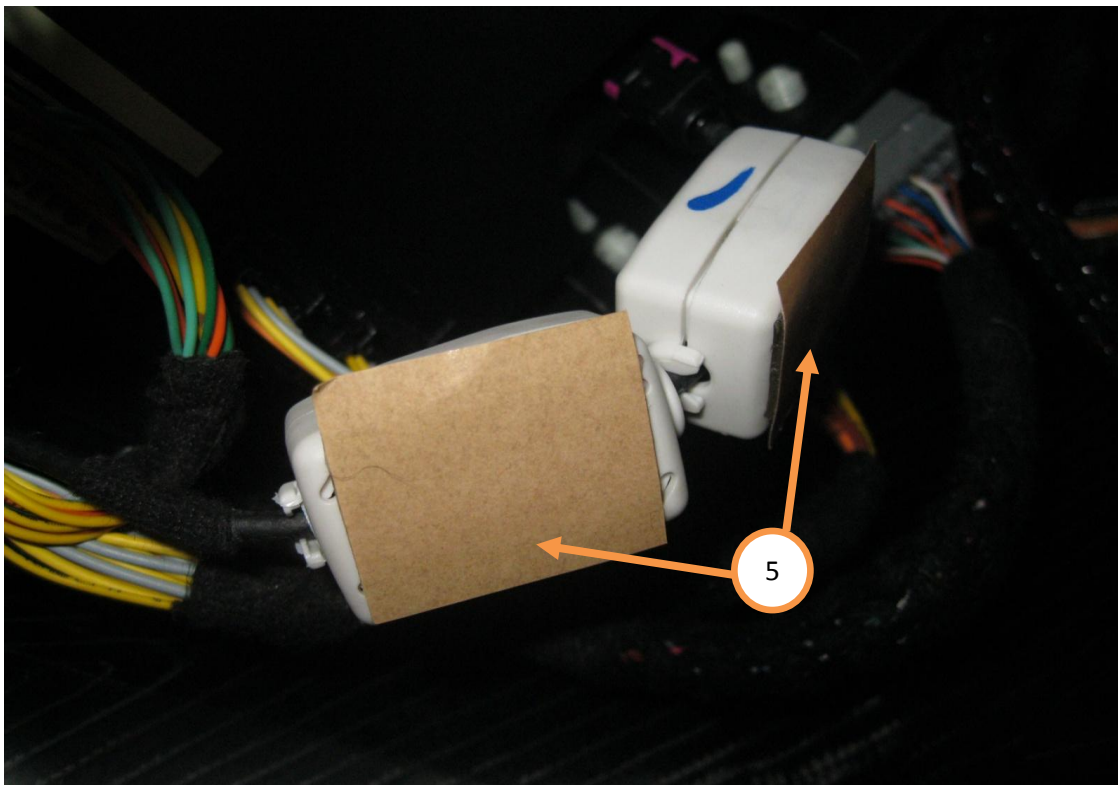
An example of the installed condition viewed through the windscreen, showing the installed ferrite with attached felt tape is shown below (3).



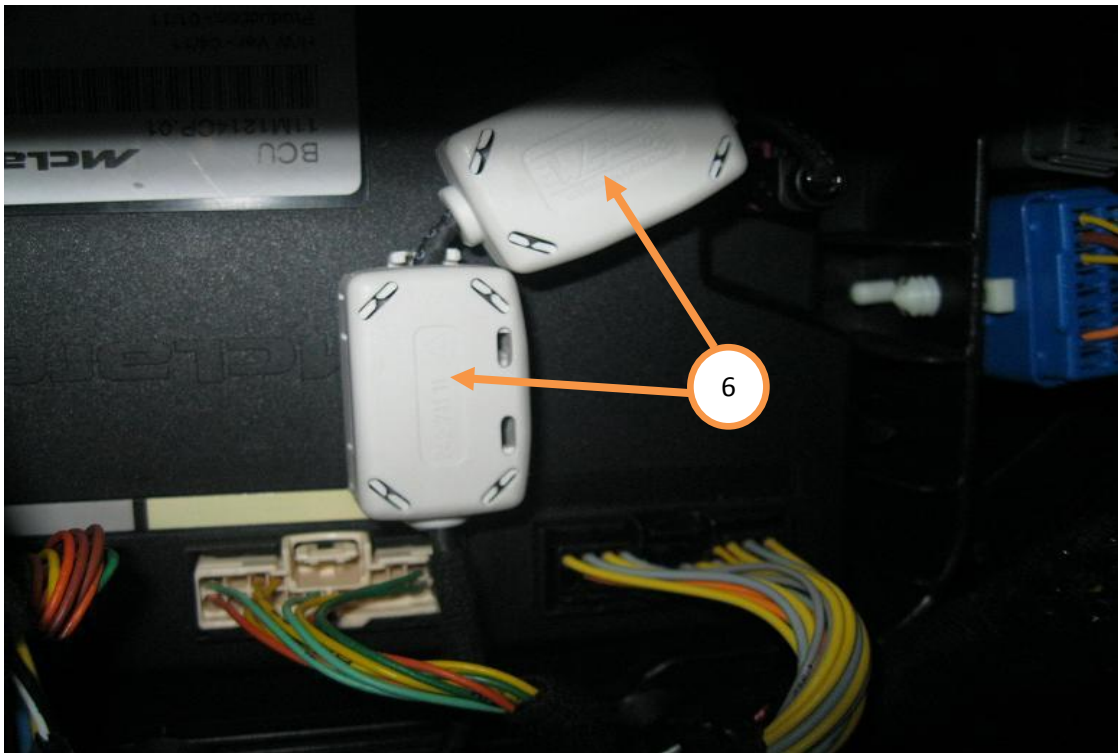
16. Attach two ferrites (11M1419CP) to central locking antenna (4). The antenna is a black cable located under the Body Control Unit (BCU). Locate the first connector approximately 30mm away from the connection to the BCU.



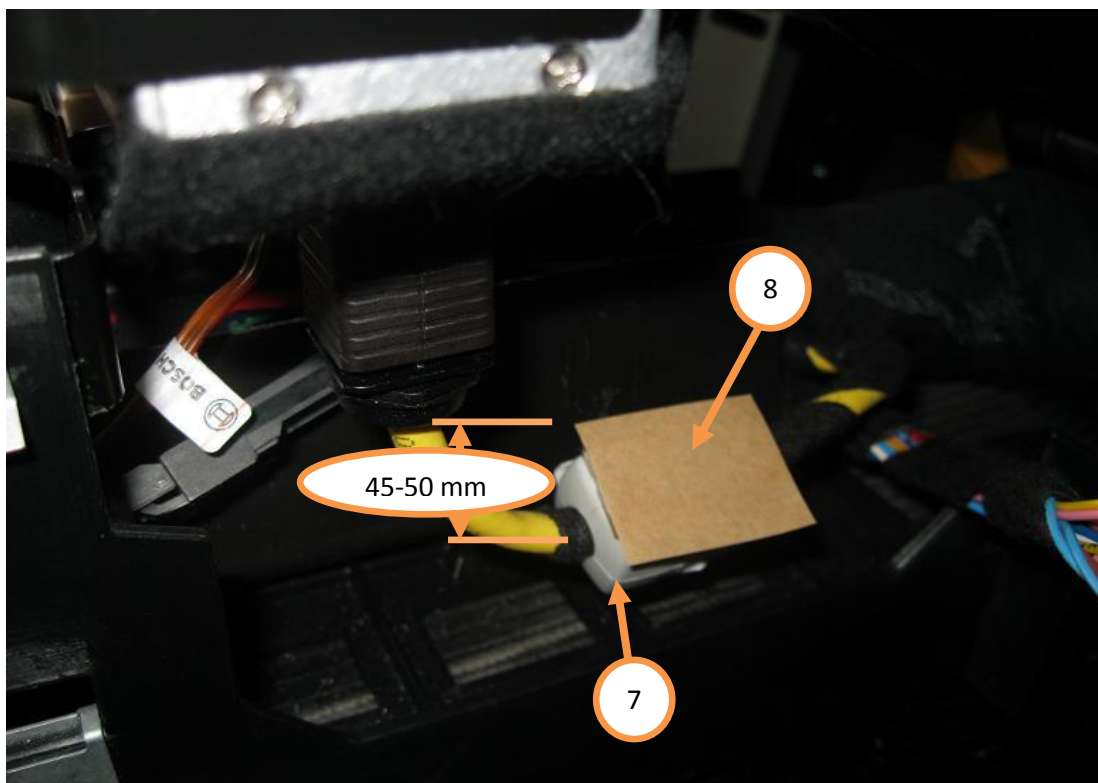
17. Apply perm elastic tape to each ferrite (5).



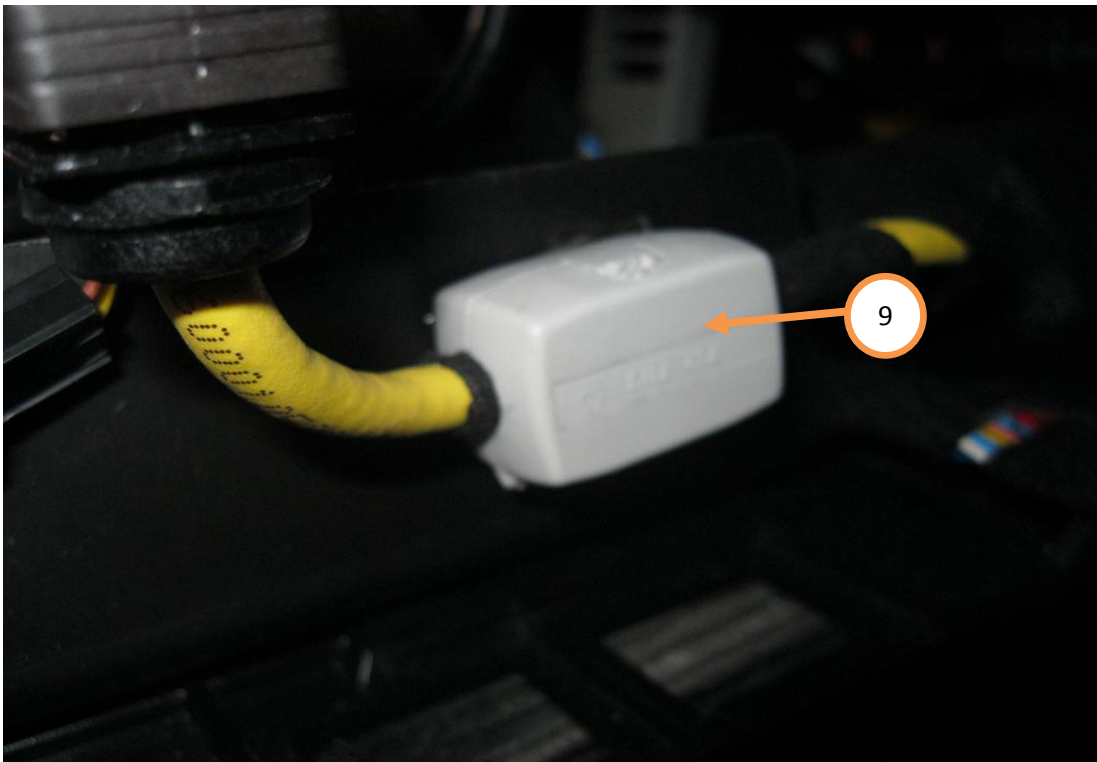
18. Attach Ferrites to the underside of the BCU ensuring that they are sufficiently retained by the adhesive tape (6).



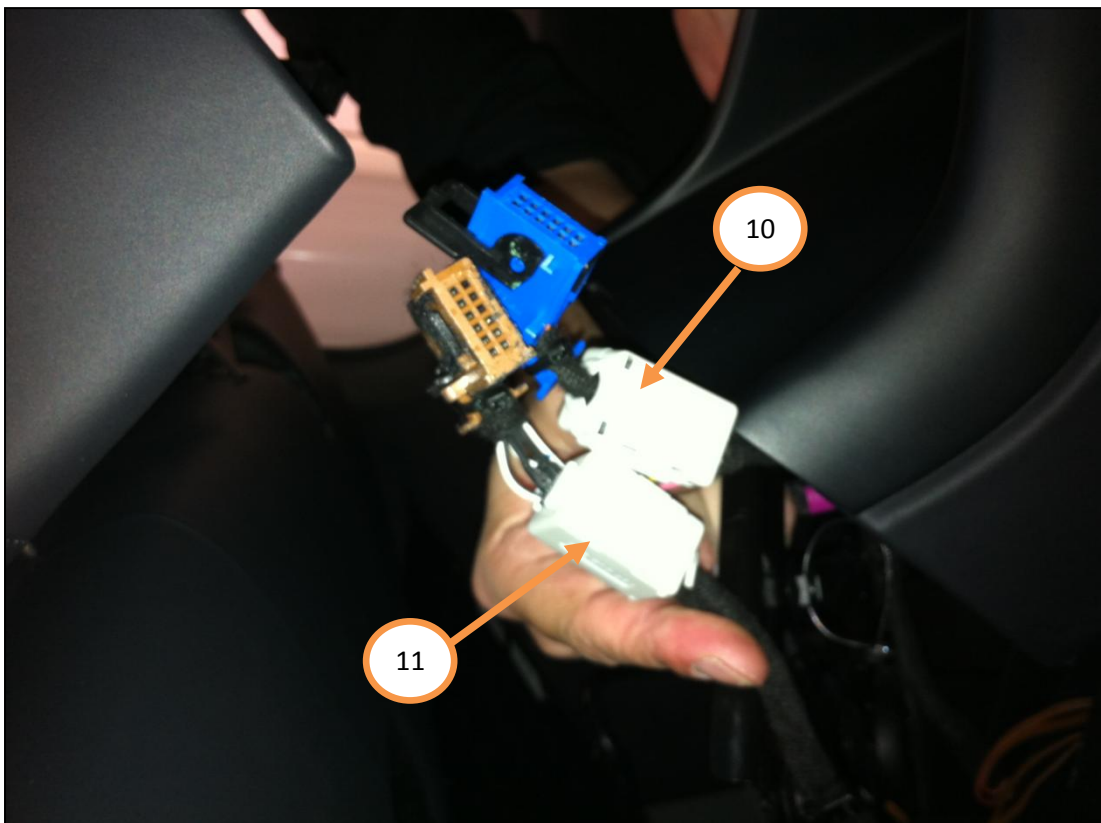
19. Attach Ferrite (11M1422CP) to the RJ45 cable leading to the head unit. The ferrite should be fitted approximately 45-50mm away from the connector (7). Once this has been performed apply perm elastic tape to the ferrite (8).



20. Attach the ferrite to the harness trunking; ensure that the ferrite is sufficiently retained. (9)

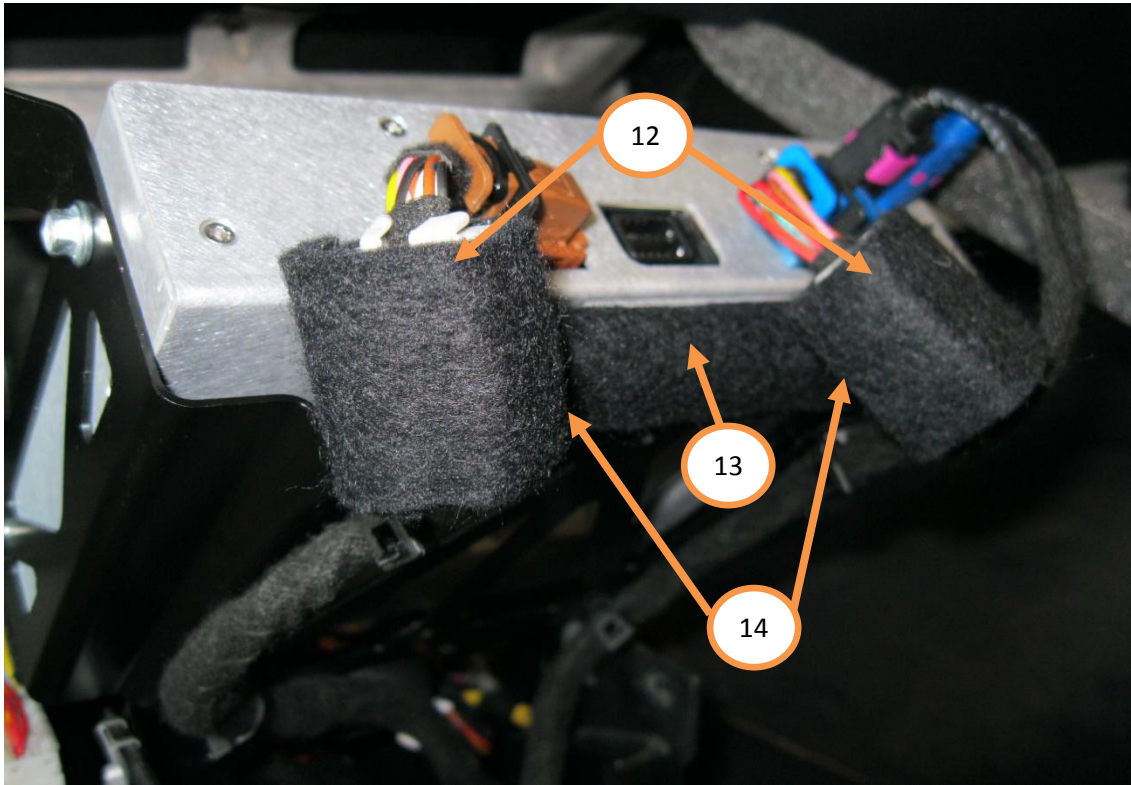


21. Attach ferrite (11M1422CP) to each of the IRIS branches, 1-Din blue connector branch (10) and brown connector branch (11).



Care point: Ensure that the ferrite is applied to the area covered by the harness tape and not the wires themselves.

22. Apply felt tape to 1-Din bracket and around each ferrite (12). The ferrite should be placed at the first point where the harnesses tape starts, leaving about 3-5mm of harness tape. (13) The ferrites and felt tape have been shown with the head unit/HW High Line 1-Din IRIS fitted in order to highlight the correct positioning. The removed unit is to be replaced, as outlined in the installation section of the bulletin. Ensure that the tape applied to the head unit bracket forms the interface between the bracket and the two ferrites (14).



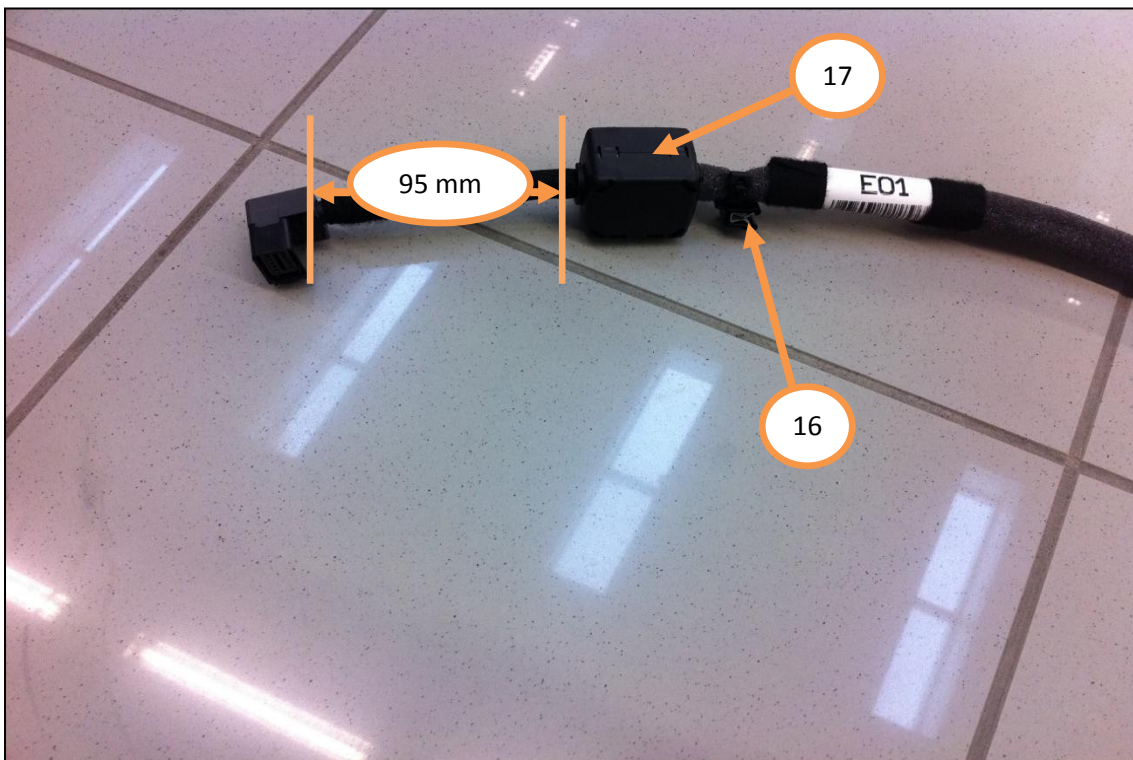
Care point: Be careful not to damage leather components in this area as the HVAC bracket has relatively sharp edges.

23. The image is displayed below of the fitted ferrites and felt tape attached to the IRIS branches with the connectors inserted into HVAC control unit (15).

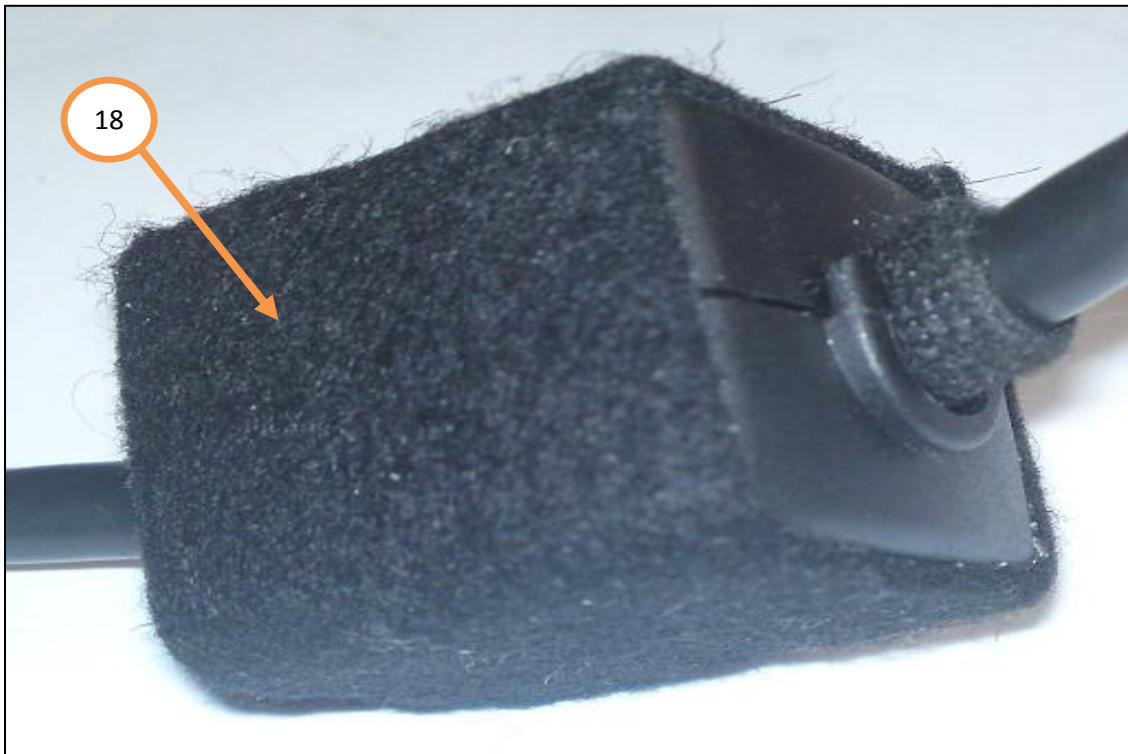


Care point: Ensure that the ferrite is closed firmly.

24. Remove existing edge clip from the new IRIS display wiring harness (16). Apply 4 turns of felt tape 95mm from the display end connector. Fit ferrite (11M0420) ensuring that the display connector is covering the felt tape (17).

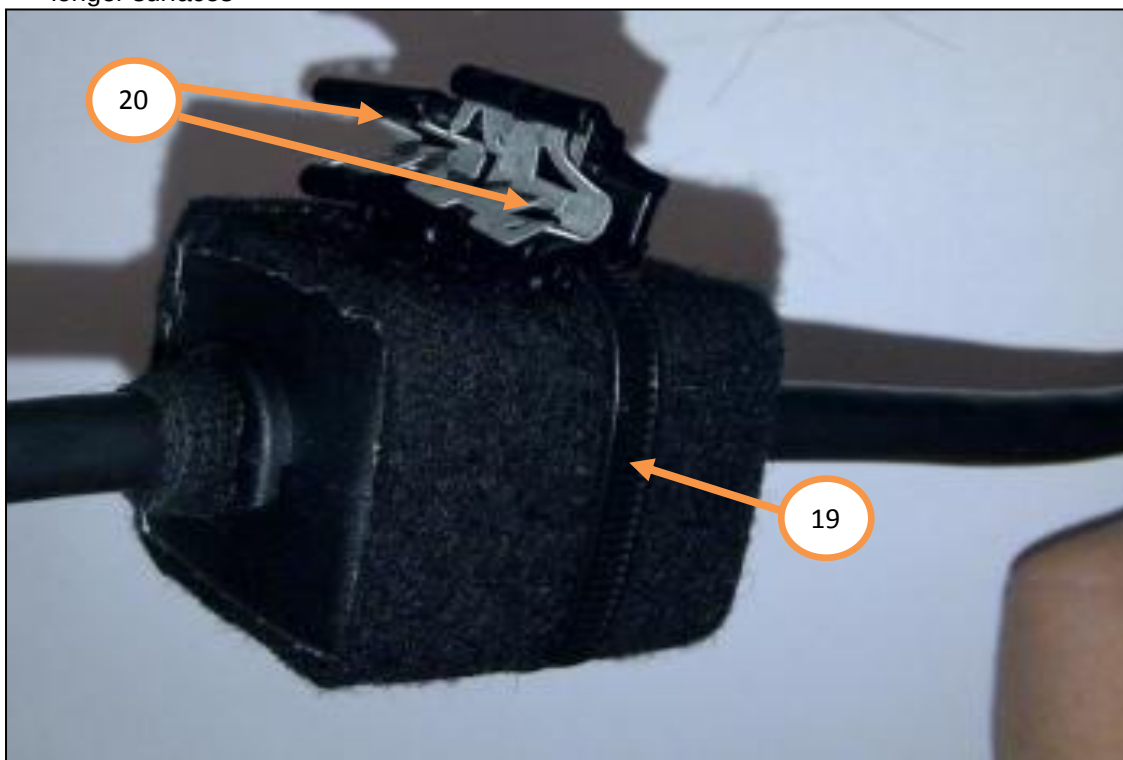


25. Apply one piece of felt tape around the entire ferrite casing on the IRIS display wiring harness (18).

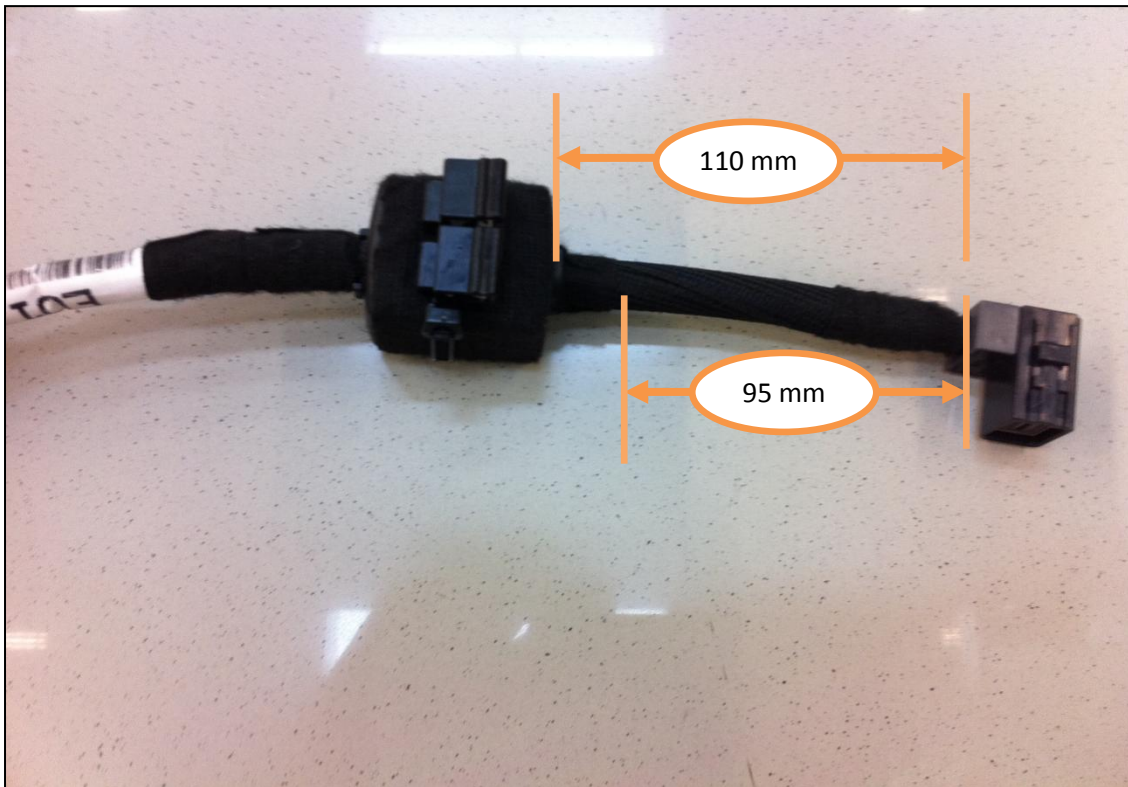


Care point: Apply sufficient force on the edge clip-cable tie to ensure a tight fit around the felt tape.

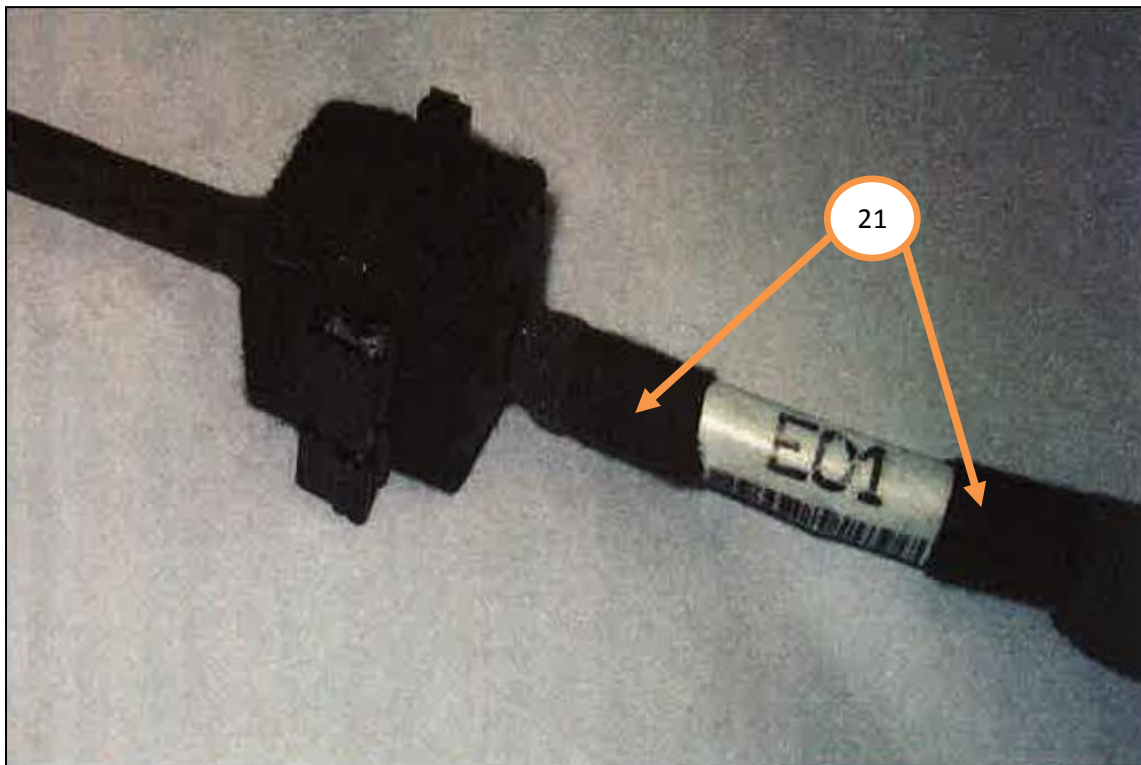
26. Fit edge clip-cable tie (19) around the felt tape and fit two edge clips (20) should be fitted on either one of the longer surfaces



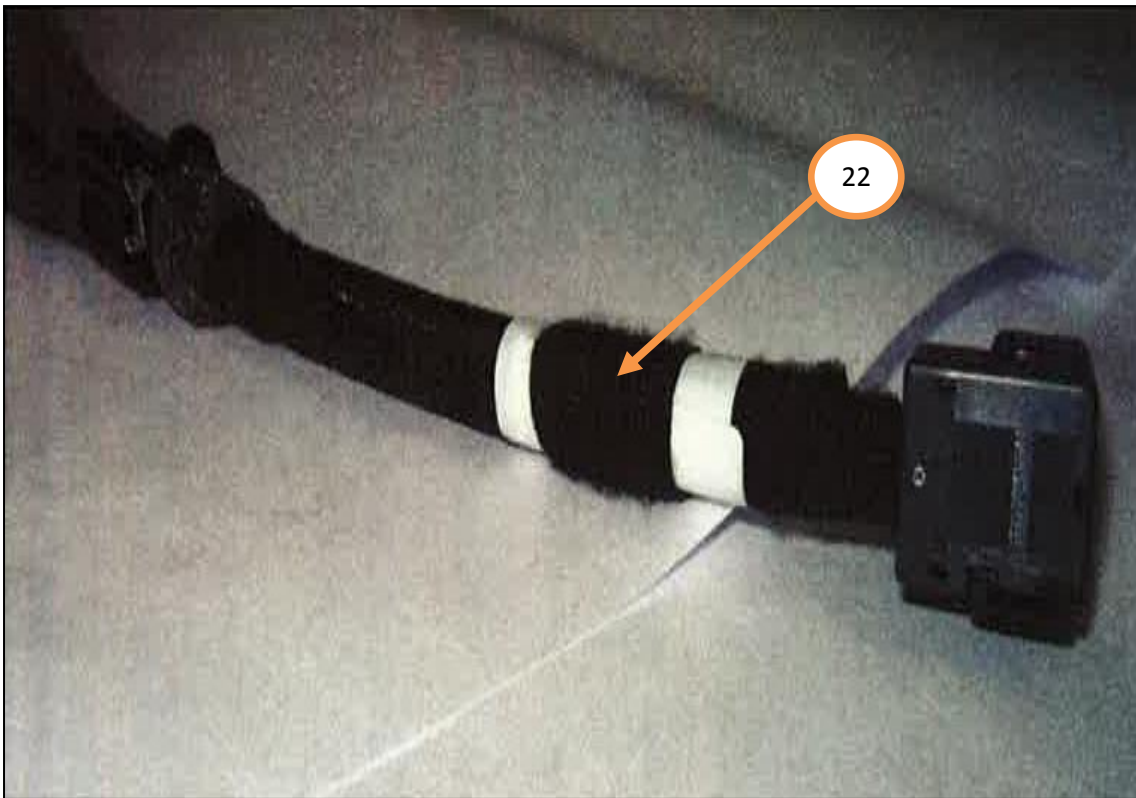
27. The completed section of the IRIS display wiring harness should look as per the image below.



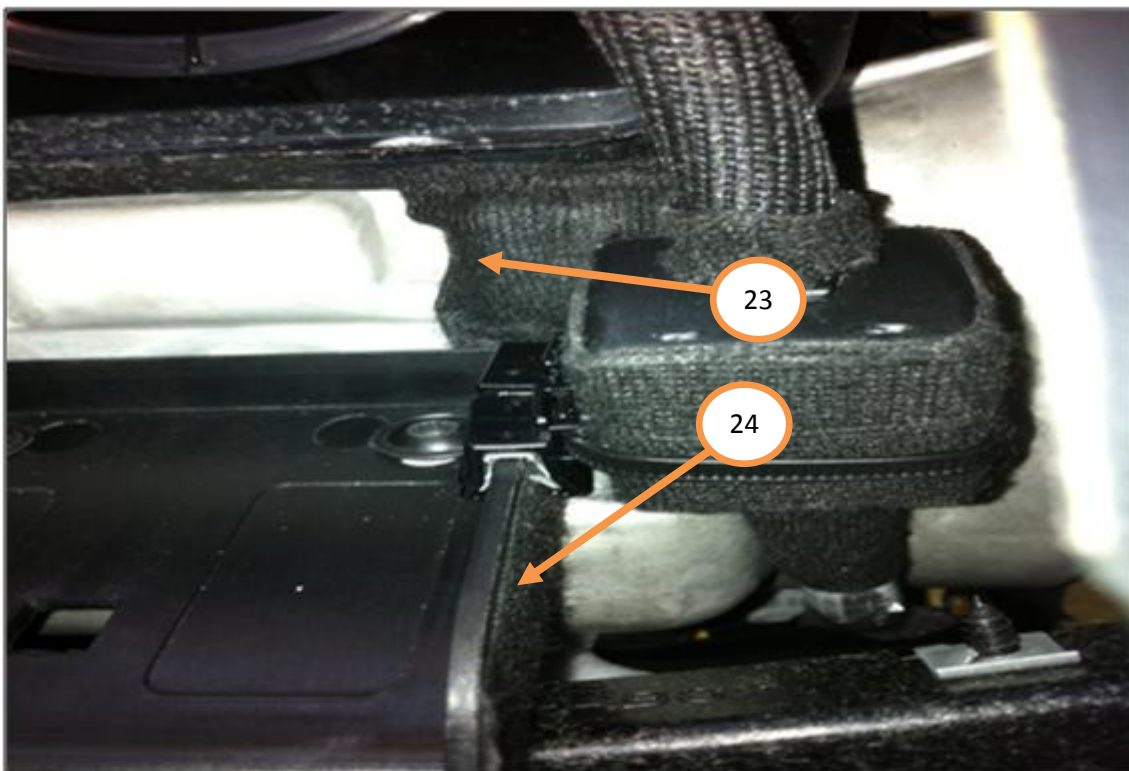
28. Apply felt tape to either end of the ID label (E01). This is the label nearest to the ferrite. (21).



29. Apply felt tape to the 1-DIN label at the other end of the harness and to secure it into position (22).

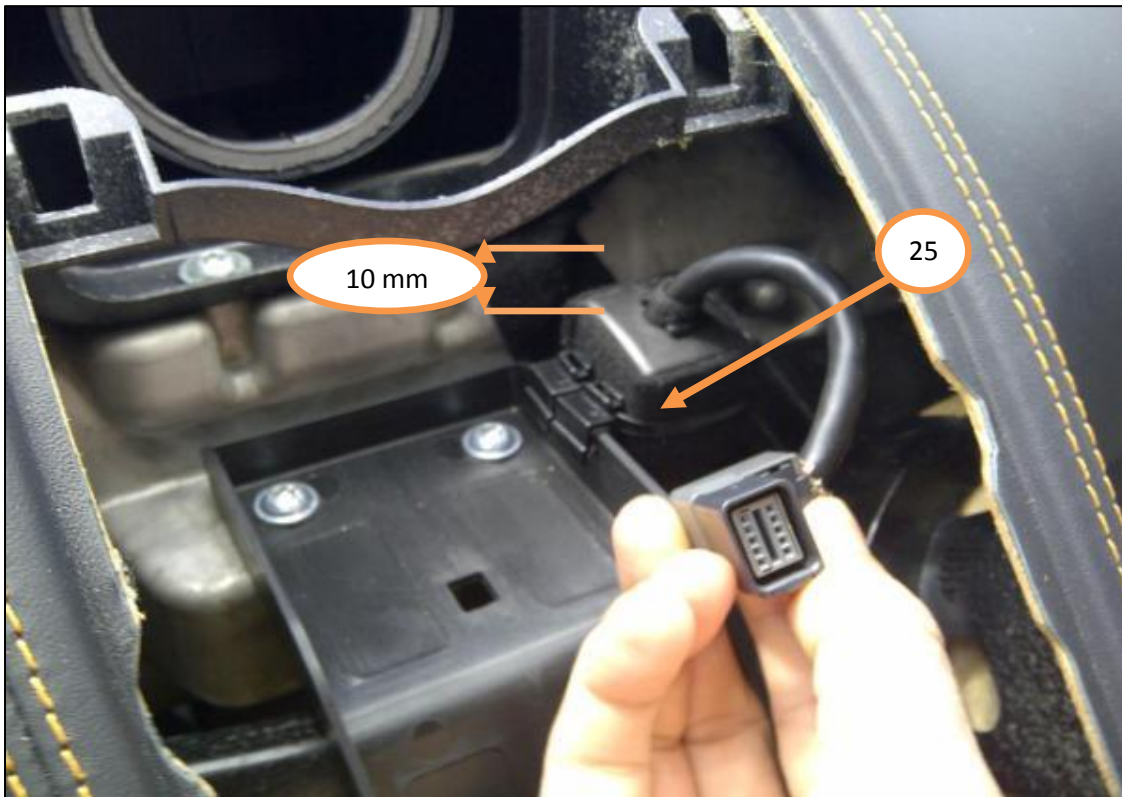


30. The old IRIS display wiring harness can now be removed and replaced with the new unit. Apply felt tape to the facia beam adjacent to ferrite (23). Apply felt tape on the upper tunnel assembly to form an interface between this part and the ferrite (24).

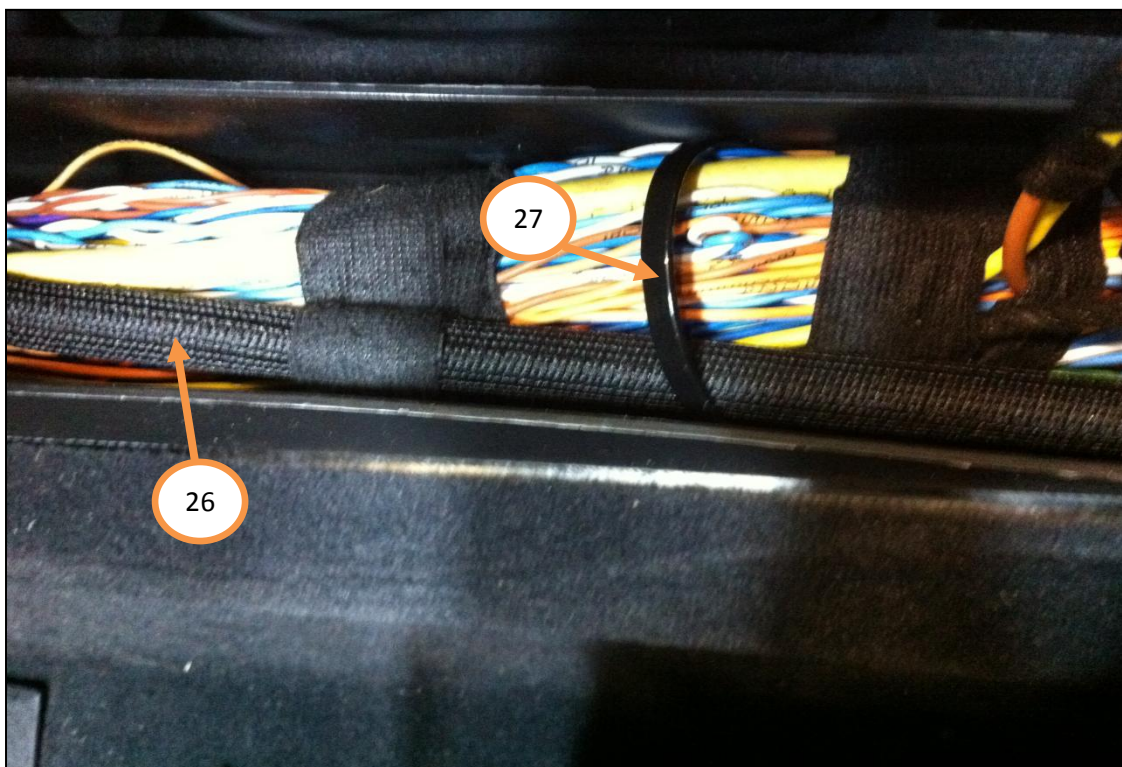


Care point: Ensure there is a 10mm gap between the ferrite and facia beam.

31. Ferrite and cable assembly should be positioned as per the image below. (25).



32. Remove the control panel wiring harness that connects the head unit/HW High Line I-Din IRIS to the auxiliary USB IRIS socket. (26) It is held in place by four cable ties that will have to be cut and replaced when the new wire control panel wiring harness is installed (27).



33. Replace with new control panel wiring harness.

INSTALLATION:

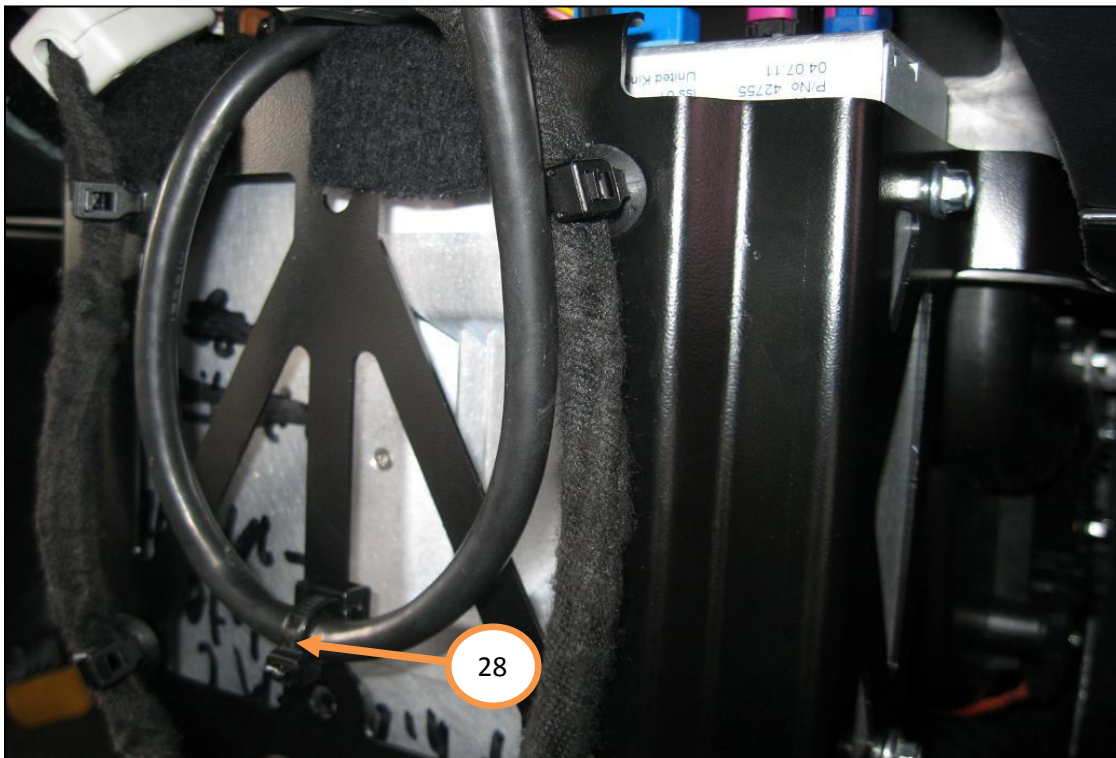
Care point: Ensure that the HVAC control unit is always flashed to the vehicle.

34. Replace HVAC control unit with updated component as per instruction A-RM-05M03-01-005.

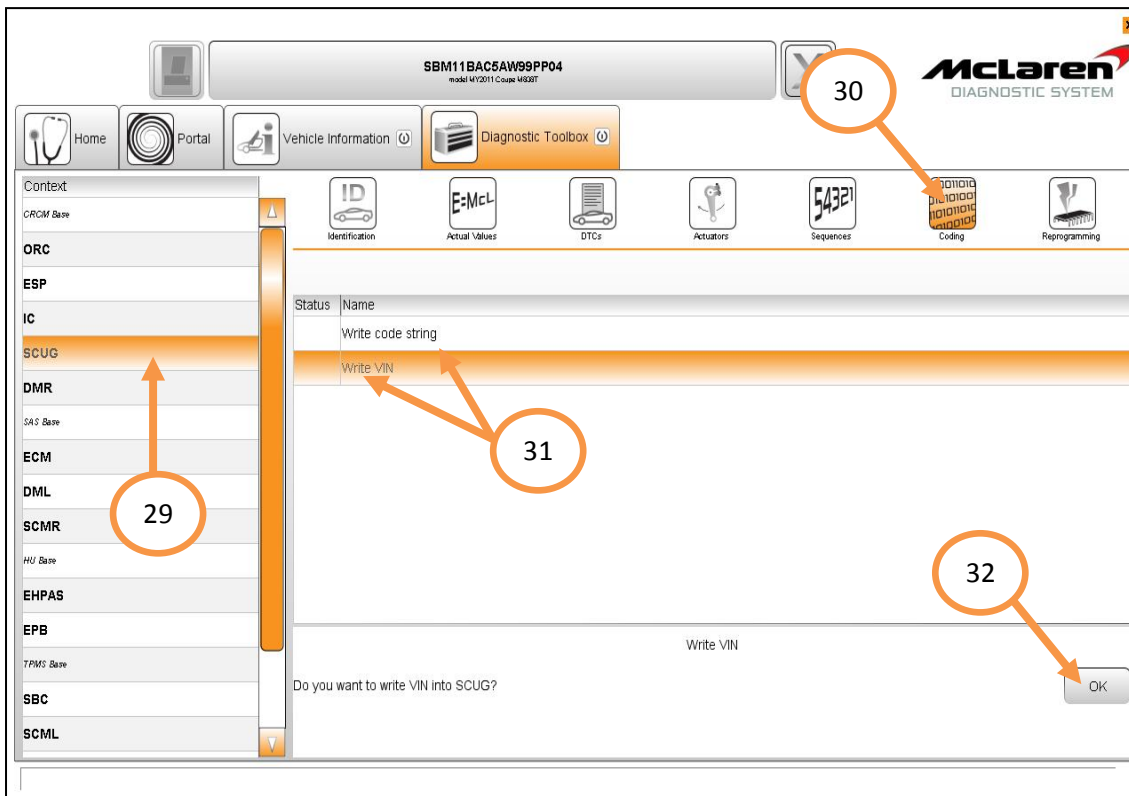
35. Replace Auxiliary USB Connector Unit with updated component as per instruction A-RM-05M04-01-011.

36. Replace head unit/HW High Line 1-Din IRIS with updated component as per instruction A-RM-05M04-01-005.

37. Fit edge clip/cable tie to the stowing display cable to prevent it rattling against the centre console trim. (28)



38. Replace Switch Control Unit Gateway (SCUG) with updated component as per instruction A-RM-05M03-01-010. The SCUG will need to be coded via the McLaren Diagnostic System (MDS). Enter the SCUG (29) and proceed to the coding section (30). Highlight the Write VIN section (31) and proceed to write VIN into SCUG (32). It is also necessary to select write code string by following the same steps as the Write VIN section.



39. Install remaining components in the reverse order.

40. Once the work is complete, perform a head unit function check using the following guidelines on the table:

	Test Description	Execution Steps	Expected Result
1	Switch on unit	Vehicle IGN state 5 (via "start" button)	McLaren image followed by standby screen (time in top right corner) or home screen (with icons) depending on last mode.
2	Switch on unit, if unit is in stand by screen	Press the Home button on the Head unit	Home screen (with icons) displayed
3	Check if latest IRIS SW versions are loaded	Press the Setting Button on the Home screen Select About and then Software	- Compare all versions which are displayed with screen image or list given. - If not, flash firmware via production tester, application software via given USB flash drive - Repeat this step to verify all versions are ok
4	USB and iPod connectivity	- Press the Home button on the Head unit - Connect iPod / device with music to USB port to connector unit in storage compartment - Press the Media Button on the Home screen	- Indexing symbol displayed in status line after inserting the iPod / device - Wait until device Name is displayed in Media screen then select the device name - If iPod was playing last time, music will continue to play on the speakers
5	To verify the touch screen response	- Select the device on the source selection screen (if iPod was not in play mode before) - If iPod was in play mode select Browse icon in the now playing screen - Select Songs Button from the list - Flick song list up and down on the touch screen	Song list is displayed and moving with the flicking up and down
6	To verify upper Hard Keys	- Press left upper Hard Key - Press right upper Hard Key	Song list is moving up and down
7	To verify audio play back	Select any song from the song list	Now playing screen displayed and track time is progressing

8	To verify whether Volume Changes	Change Volume Up and Down - Turn the ring Encoder in both the directions and set it to 65	- Volume changes should be observed on the speakers without any distortion. - Music should Play on the speakers without any distortion.
9	To verify lower right Hard key/Mute.	- Press the Lower Right Hard Key (showing Mute Symbol) - Press the same key to un-mute again	- Verify the Audio gets Mute - Verify the Audio gets un-mute.
10	To verify lower left Hard key/Mute.	- Press the Lower left Hard Key (arrow symbol pointing upwards) - Press Radio in MCC	- Verify the MCC window pops up. - Verify the source switched to Radio from Media and Radio
11	To verify radio antenna connection	Press search to go to a known station with reception	Verify audio from this station observed on the speakers
12	To verify the Centre Hard key	- Press the Home button on the Head unit. - Press the Media Button on the Home screen	- Verify the Head unit is back to Home screen. - Verify the Now Playing screen is displayed
13	Remove iPod/device and cable from USB port/car	Unplug cable from USB port	Verify display show source selection screen shows No Source Available
14	Set the unit to default state	Press the Home button on the Head unit	Home screen (with icons) displayed

Please Contact your Regional Aftersales Manager if you have any queries relating to the information contained within this bulletin.

WARRANTY INFORMATION

DESCRIPTION

IRIS/HVAC Update

RESOLUTION CODE

MOM40143A33B9901

TOTAL REPAIR TIME

5.5

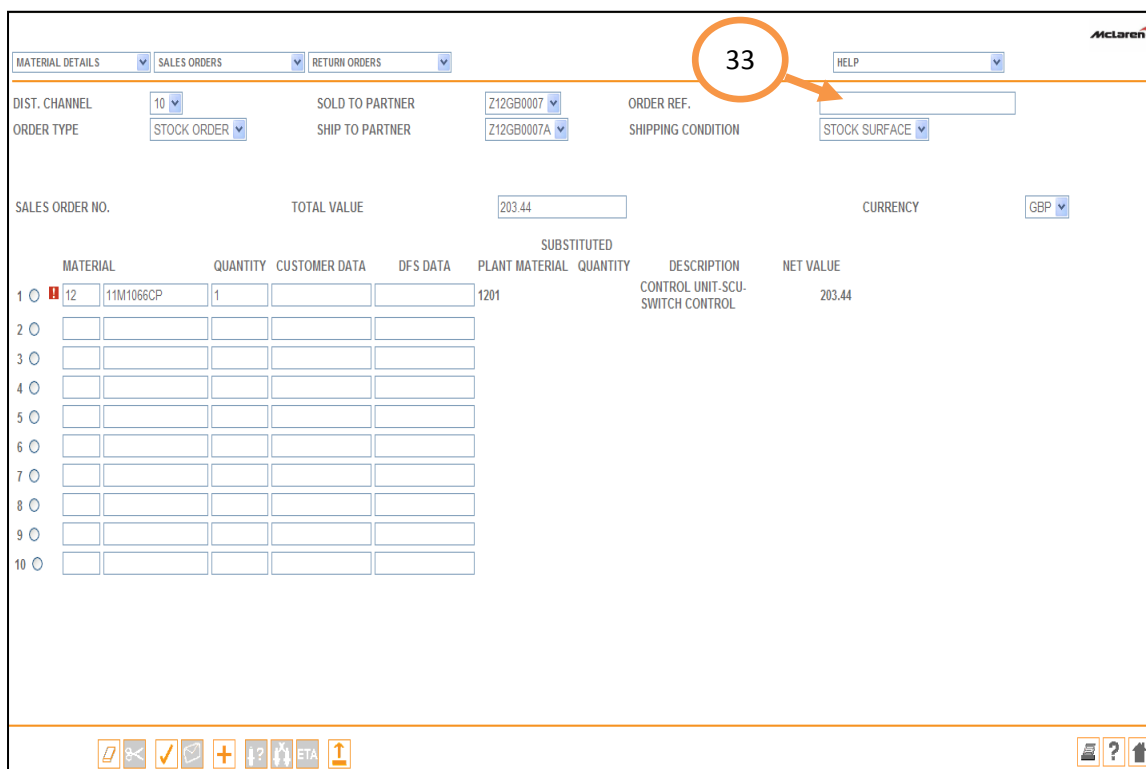
PARTS INFORMATION

PART DESCRIPTION	PART NUMBER	QUANTITY	ORDER PROCESS
Ferrite - Harness - 7427 1111	11M1419CP	2	Order via Unipart
Ferrite - Harness - 7427 1221	11M1420CP	1	Order via Unipart
Ferrite - Harness - 7427 1733	11M1422CP	3	Order Via Unipart
Felt Tape	00RL004	1	Stock Item/Order via Unipart
Edge Clip-Cable Tie	11M1282CP	7	Stock Item/ Order via Unipart
Tape - DB6002 – Permelastic	11M1398CP	3	Order via Unipart
HW High Line 1-Din IRIS MP6	11M1430CP	1	Order via Unipart
Assy Control Panel-Display IRIS MP6	11M1431CP	1	Order via Unipart
Connector Unit USB Aux	11M1432CP	1	Order via Unipart

IRIS MP6

Cleaning cloth- Head Unit Display	11Q0069CP	1	Order via Unipart
Ferrite Clamp EMC	11M1317CP	1	Order via Unipart
Wiring Harness IRIS Display V6	11M1269CP	1	Order via Unipart
Wiring Harness IRIS Control Panel V6	11M1226CP	1	Order via Unipart
Control Unit-SCU-Switch Control Gateway	11M1066CP	1	Order via Unipart
Control Unit HVAC	11M1418CP	1	Order via Unipart

Care point: When placing an order for parts you are required to enter the specific VIN to the Order Reference section.



33

HELP

MATERIAL DETAILS SALES ORDERS RETURN ORDERS

DIST. CHANNEL: 10 SOLD TO PARTNER: Z12GB0007 ORDER REF.: ORDER TYPE: STOCK ORDER SHIP TO PARTNER: Z12GB0007A SHIPPING CONDITION: STOCK SURFACE

SALES ORDER NO. TOTAL VALUE: 203.44 CURRENCY: GBP

	MATERIAL	QUANTITY	CUSTOMER DATA	DFS DATA	PLANT MATERIAL	QUANTITY	DESCRIPTION	NET VALUE
1	11M1066CP	1			1201		CONTROL UNIT-SCU-SWITCH CONTROL	203.44
2								
3								
4								
5								
6								
7								
8								
9								
10								