

SERVICE CAMPAIGN BULLETIN

TITLE:	Clutch Oil Cooler Return Hose Replacement
CAMPAIGN REFERENCE:	03D
DOCUMENT NUMBER:	11 G 014
AFFECTED VEHICLES:	650S and 625C Coupe and Spider
SITUATION:	Quality Engineering at McLaren Automotive have identified that a number of McLaren vehicles have left production fitted with a clutch oil cooler return hose that is potentially at risk of failing due to not able to withstand the pressure and heat required which will result in a split at the hose and loss of coolant.
PROCEDURE:	Please follow the procedure outlined in this document to replace the necessary parts.

Preparation work:

1. Please refer to AA-RM-02A04-04-007 - Lift vehicle on lifting platform
2. Please refer to AA-RM-02A04-04-008 - Remove/Install Floor Panel – Transmission
3. Please refer to AA-RM-02A04-04-001 - Remove/install Floor panel –Engine/fuel tank
4. Please refer to AA-RM-02A04-04-004 - Remove/install Floor panel – Rear Diffuser

Care Point: When the coolant fluid is drained it is not required to drain the coolant from the front LTR circuit, therefore please ignore Steps 3-5 of the Drain fluid – coolant instructions.

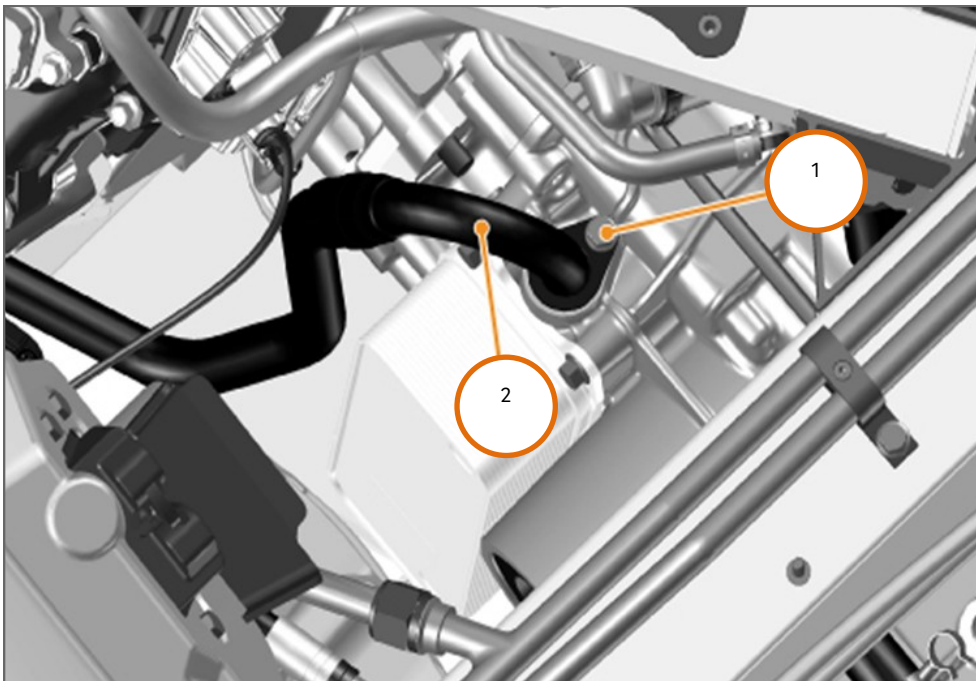
Care Point: The coolant drained from the coolant circuit should be re-used therefore it has to be handled correctly to avoid contamination. Please use clean catchment container and check fluid is clean and clear before reuse.

Care Point: If there is residue at the bottom of the container after drain or the coolant is discoloured or the vehicle has experienced overheat or contaminated with oil, then the coolant must be replaced.

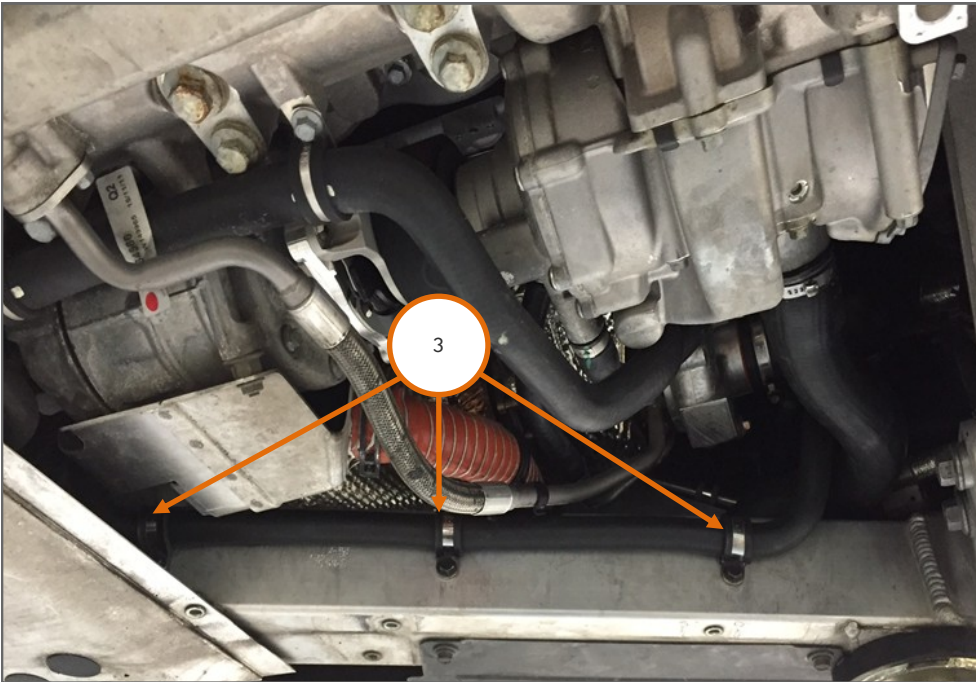
5. Please refer to AA-RM-03L01-01-005 - Drain/fill fluid – Coolant

Removal:

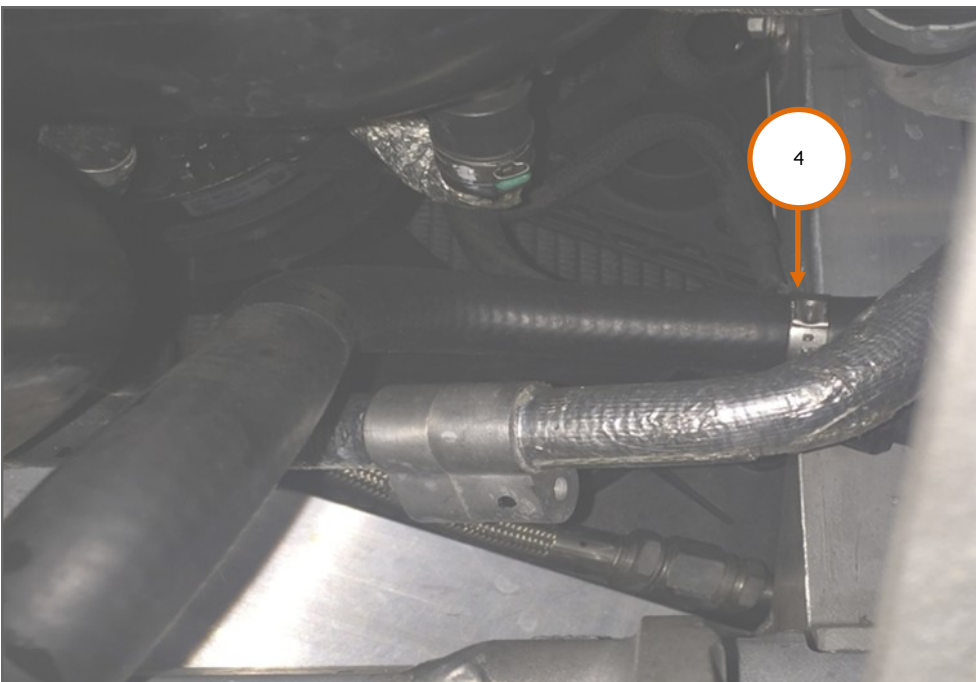
6. Remove bolt (1) M6 x 16 6Nm.
7. Detach the clutch cooler return hose (2) from the transmission.



8. Un-do the bolts of all P-clips bolted to the frame (3).



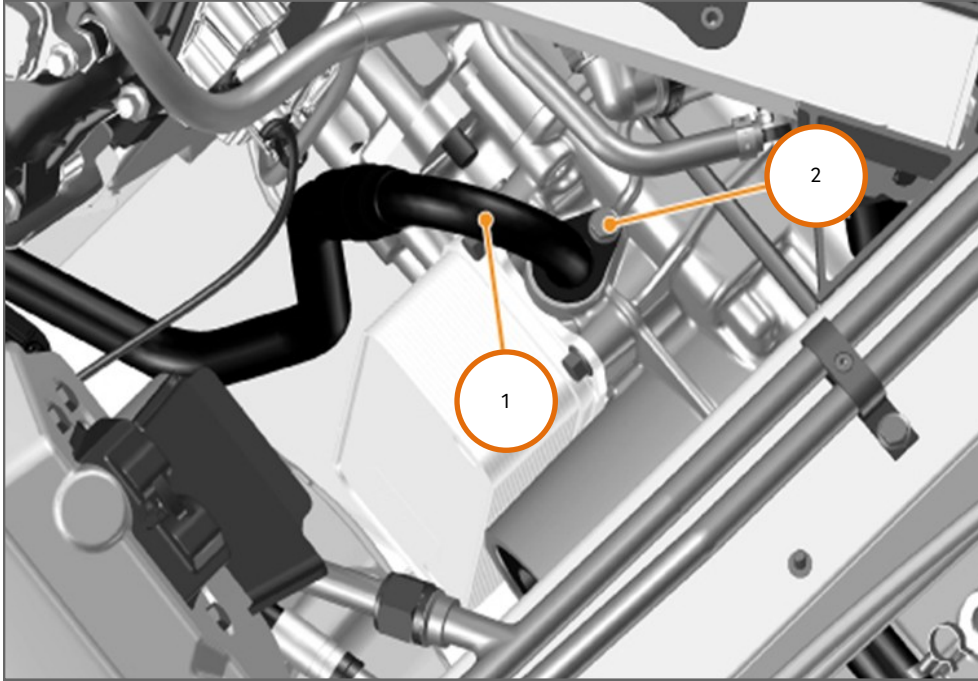
9. Remove the Oetiker clip from the other end of the hose (4) and detach the clutch cooler return hose.



Installation:

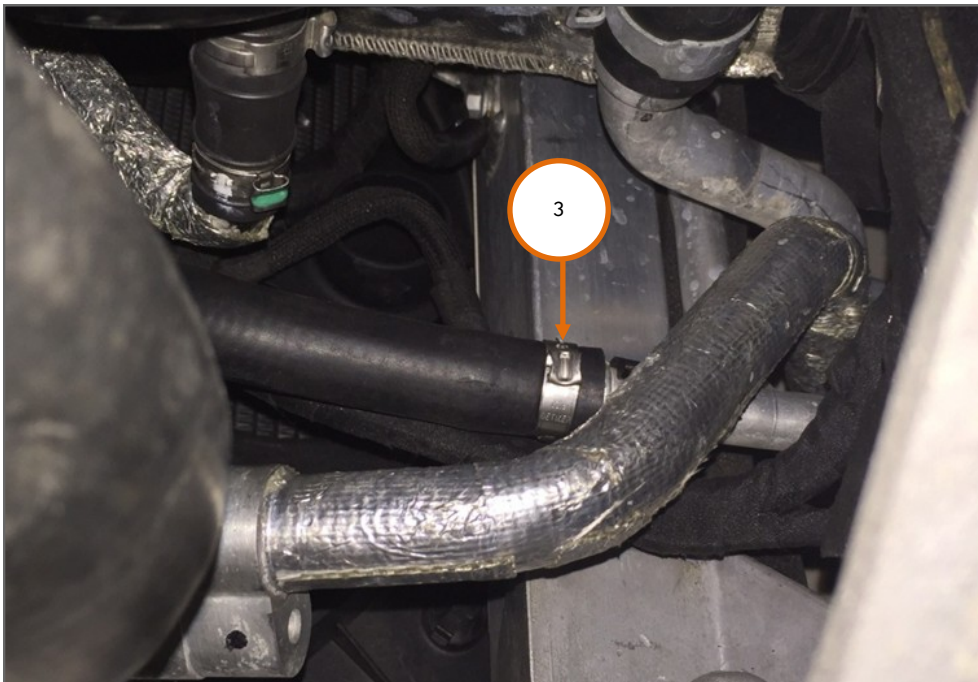
Care Point: Always lubricate the end of the hose with P80 THX during installation.

10. Install the new clutch cooler return hose (1) to the transmission (2) and torque to 6Nm.

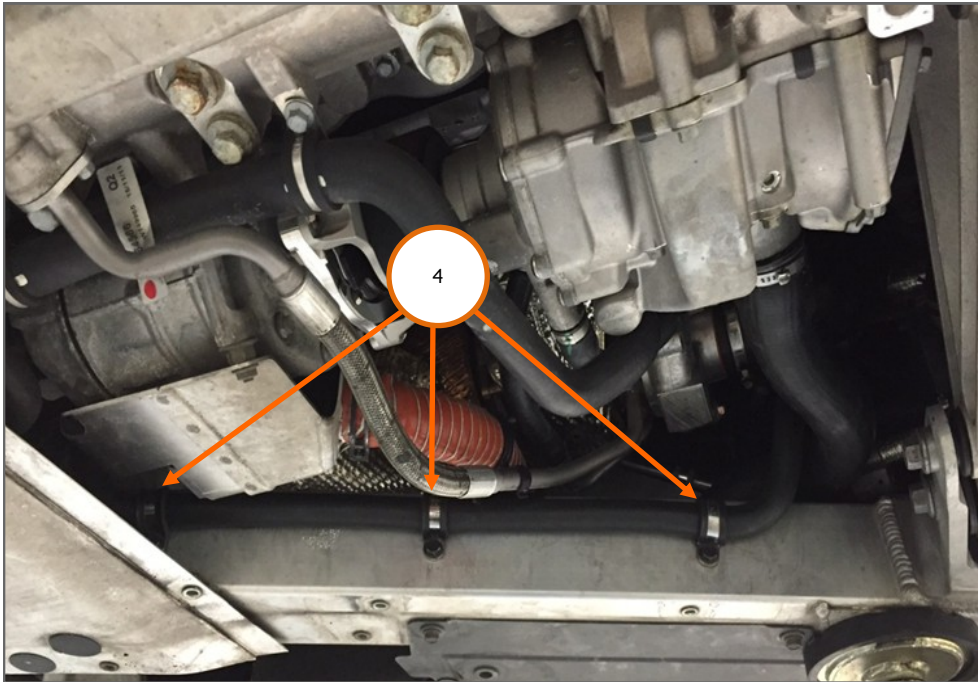


Care Point: The size of the Oetiker clip is 23.5mm.

11. Install the clutch cooler return hose to the solid LTR hose (3).



12. Install the P-clips to the frame (4) and torque to 8Nm.

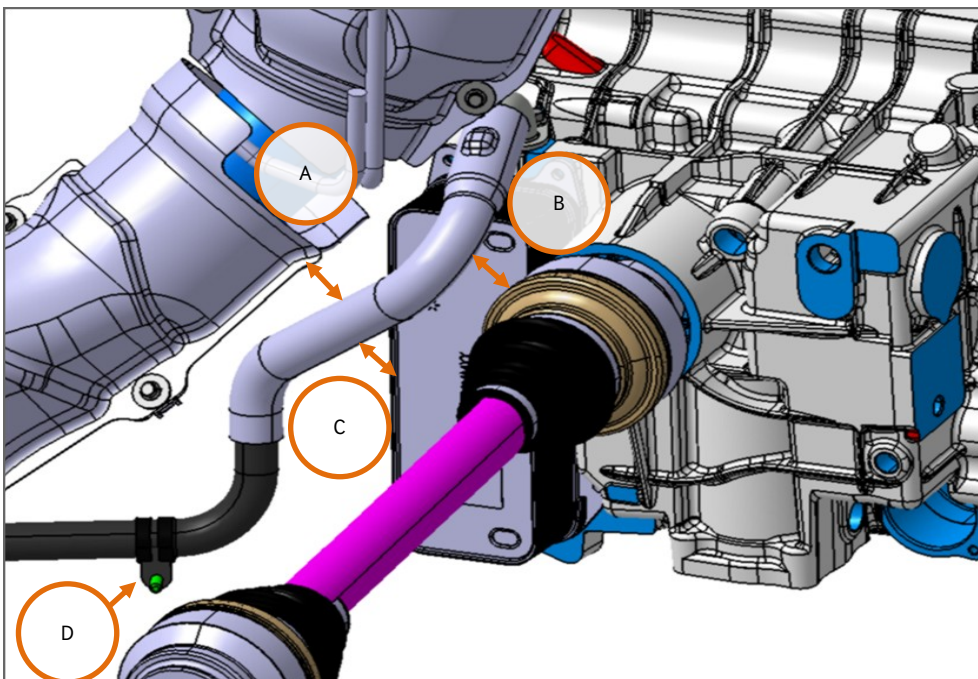


13. When installing the clutch cooler return hose it is mandatory to check and measure the clearances in three different locations.

A– Between the clutch cooler return hose and link pipe heatshield. The minimum clearance should be 15mm. If this cannot be achieved by adjusting the hose clips and end of the hose, please contact McLaren Technical Helpdesk.

B– Between the clutch cooler return hose and the left hand driveshaft. The minimum clearance should be 15mm. If this cannot be achieved by adjusting the hose clips and end of the hose, please contact McLaren Technical Helpdesk.

C– Between the clutch cooler return hose and the edge of the clutch oil cooler. The minimum clearance should be 15mm. A clash here may occur when there is too much hose rear warded of the p-clip at point D. If this cannot be achieved by adjusting the p-clip, please contact McLaren Technical Helpdesk.



14. Please refer AA-RM-03L01-01-005 - Drain/fill fluid – coolant to vacuum fill the coolant.
15. Check for external leaks. If none found no further action is required.
16. Install components in reverse order.

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

WARRANTY INFORMATION

DESCRIPTION	RESOLUTION CODE	TOTAL REPAIR TIME
Clutch Oil Cooler Return Hose Replacement	EOF20120A12C2D01	1.4 hours

PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY	ORDER PROCESS
Clutch Oil Cooler Return Hose	13F0528CP	1	Unipart