

SERVICE BULLETIN

Reference number:	SB-07-1376	Issued: 18 September, 2020
Subject:	Improvements to the Manual Gear Selector	
Model(s):	Vantage AMR	
Applicable to:	All Dealers	
Distribute to:	Head of Business After Sales Manager Service Manager Sales Manager	Warranty Staff Technician(s) Parts Staff

Reason for this Service Bulletin

It is possible that the manual transmission on Vantage AMR vehicles has poor gear engagement. This is because of wear in the spherical bearing. A new part must be installed if a customer has a problem with unsatisfactory gear selection. This bulletin gives instructions to replace the shifter lever with an integrated bearing and to modify the gear selector for improved engagement.

Workshop Procedure

The workshop procedure for this bulletin consists of three parts:

- Part A – Shifter Tower
- Part B - Shifter Cables
- Part C – Shifter Baseplate

Part A – Shifter Tower

1. Remove the shifter tower (refer to steps 1 thru 7 of Workshop Manual Procedure 07.06.AA).
2. Remove the four screws that attach the travel stop to the shifter tower (refer to Figure 1).

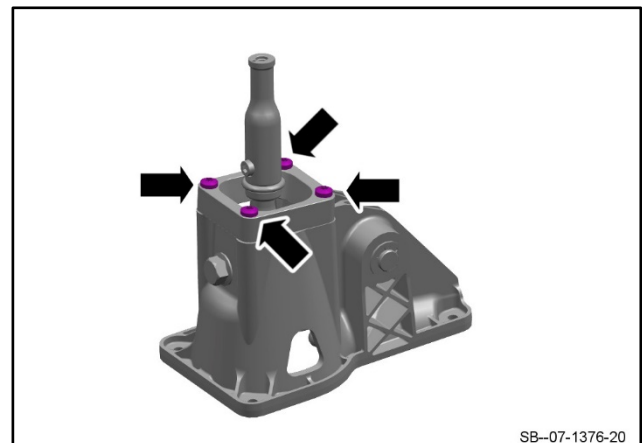


Figure 1

SB-07-1376-20

3. Remove and discard the travel stop (refer to Figure 2).

CAUTION: TAKE CARE AS THE O-RING WILL BE GREASY AND GREASE MAY MARK THE INTERIOR OF THE VEHICLE.

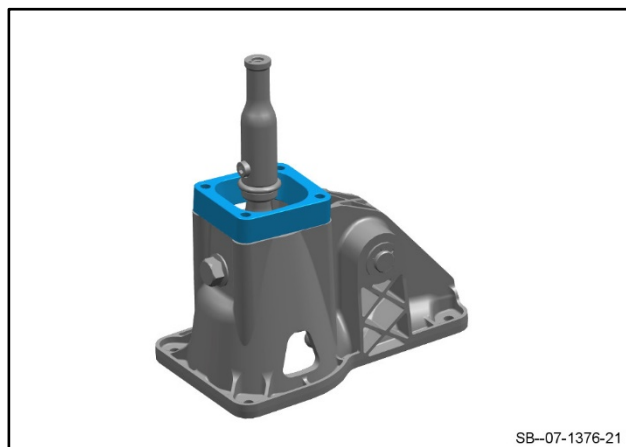


Figure 2

4. Remove the screw that attaches the extension for the gear selector (refer to Figure 3).

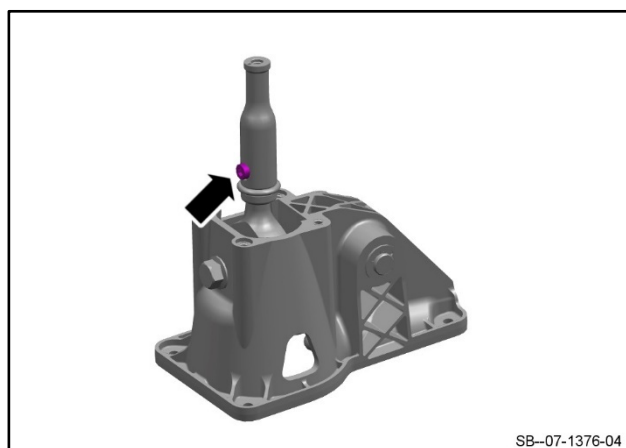


Figure 3

5. Remove the extension for the gear selector (refer to Figure 4).

CAUTION: TAKE CARE NOT TO DAMAGE THE O-RING WHEN YOU REMOVE THE EXTENSION FOR THE GEAR SELECTOR.

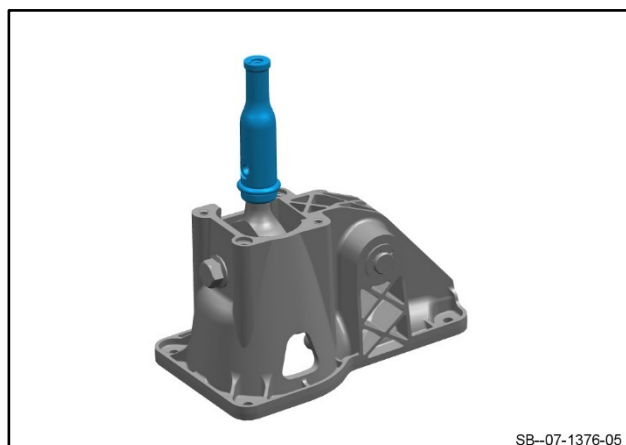


Figure 4

6. Remove the circlip (refer to Figure 5).

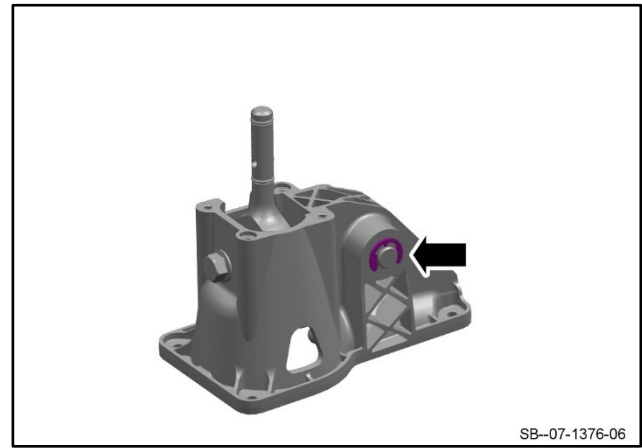


Figure 5

7. Remove the shifter assembly (refer to Figure 6).

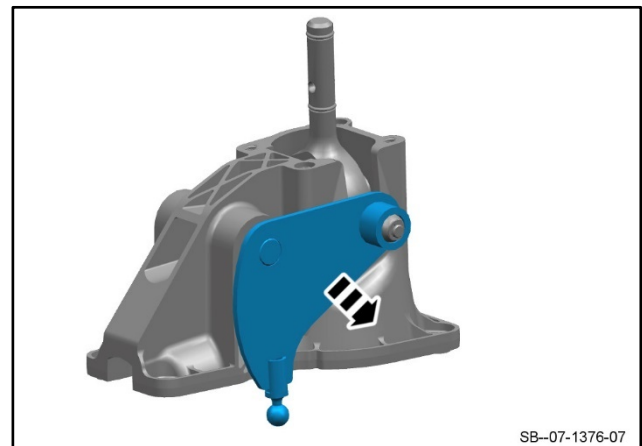


Figure 6

8. Remove the retaining bolt for the gear selector lever (refer to Figure 7).

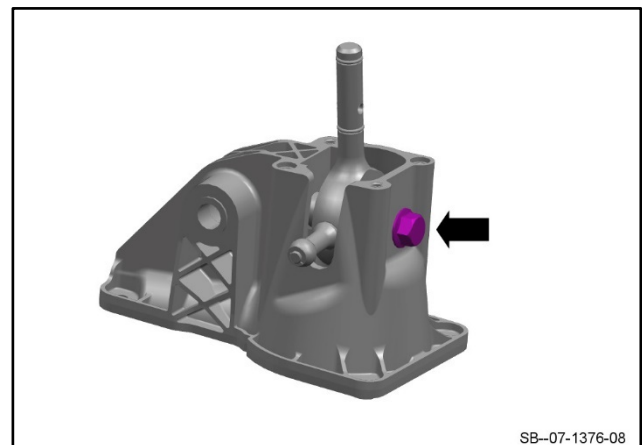


Figure 7

9. Remove and discard the gear selector lever (refer to Figure 8).

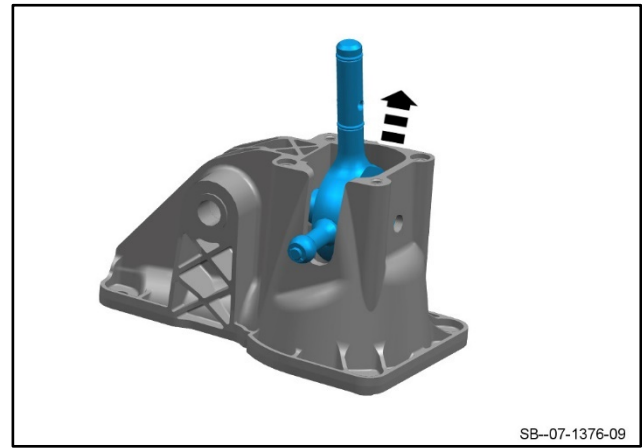


Figure 8

10. Use a drill with an 8 mm drill bit to increase the size of the four holes shown (refer to Figure 9).

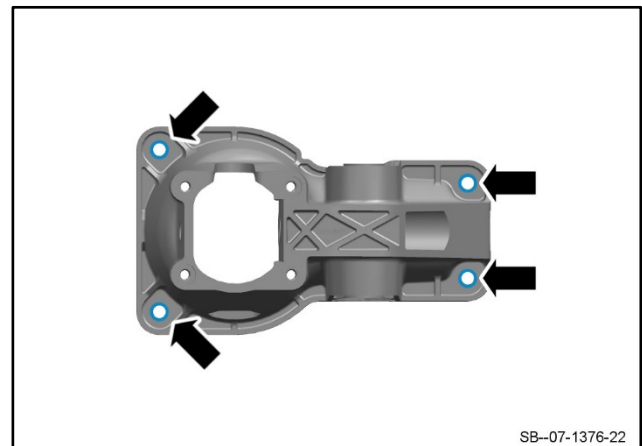


Figure 9

11. Install the new gear selector lever into the shifter tower (refer to Figure 10).

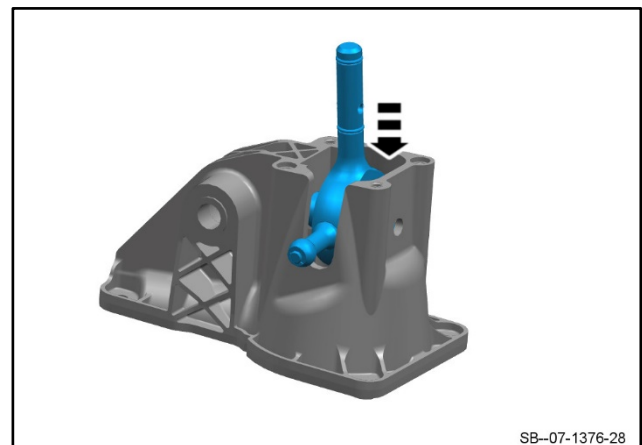


Figure 10

12. Put the new travel stop into position (refer to Figure 11).

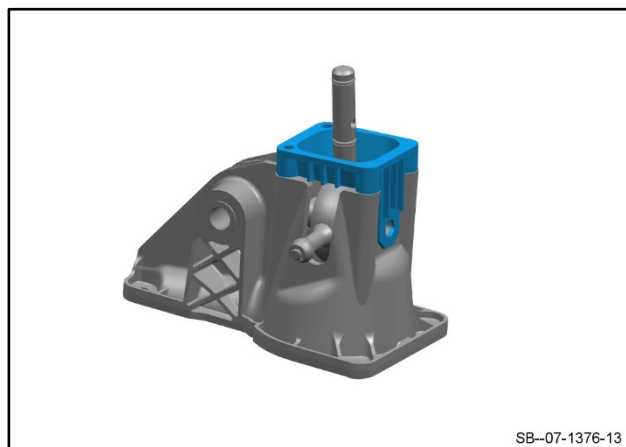


Figure 11

13. Install, but do not fully tighten, the two screws that attach the travel stop to the shifter tower (refer to Figure 12).

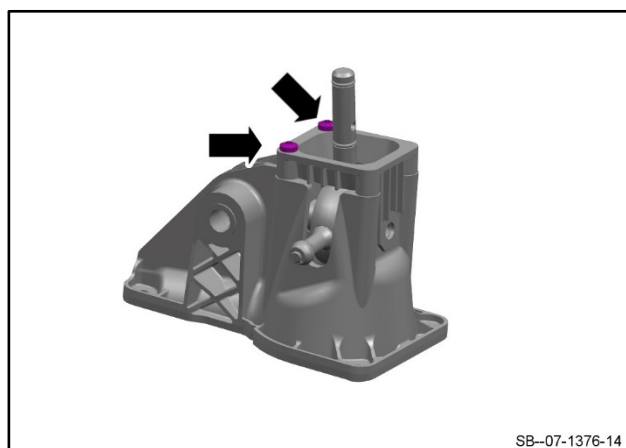


Figure 12

14. Install and torque the retaining bolt for the gear selector lever to 8 Nm (refer to Figure 13).

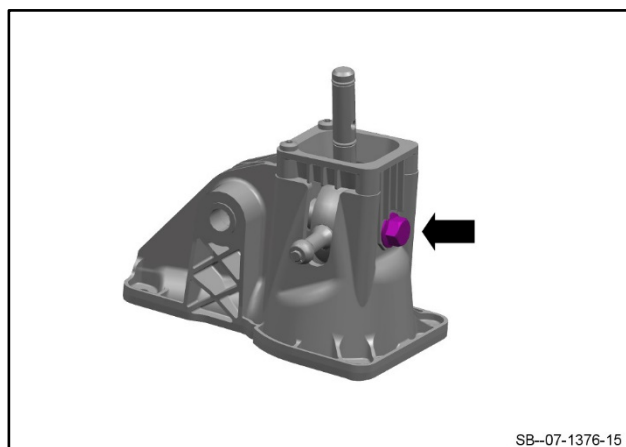


Figure 13

15. Torque the two screws that were installed in step 13 to 4 Nm.

16. Install the shifter assembly (refer to Figure 14).

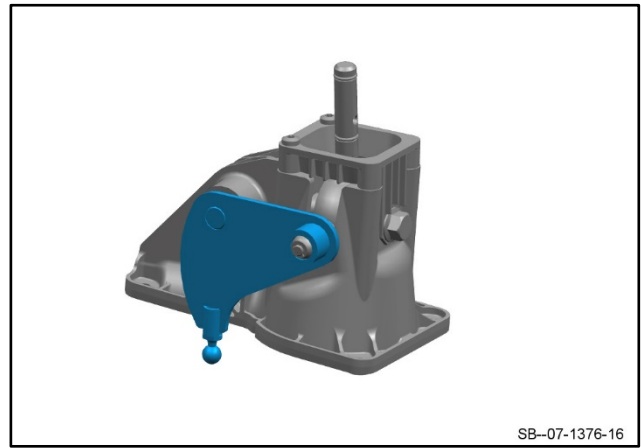


Figure 14

17. Install the circlip (refer to Figure 15).

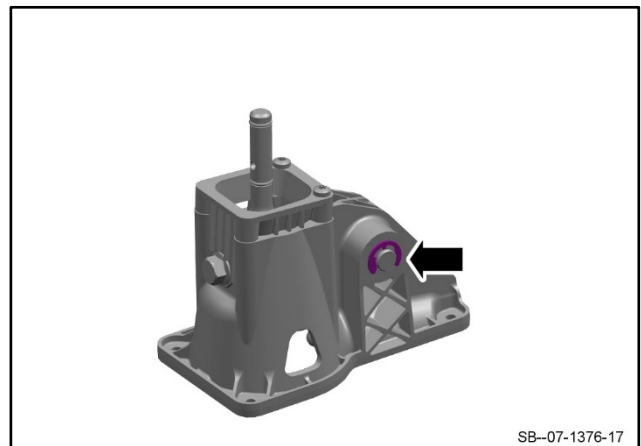


Figure 15

18. Put the extension for the gear selector into position (refer to Figure 16).

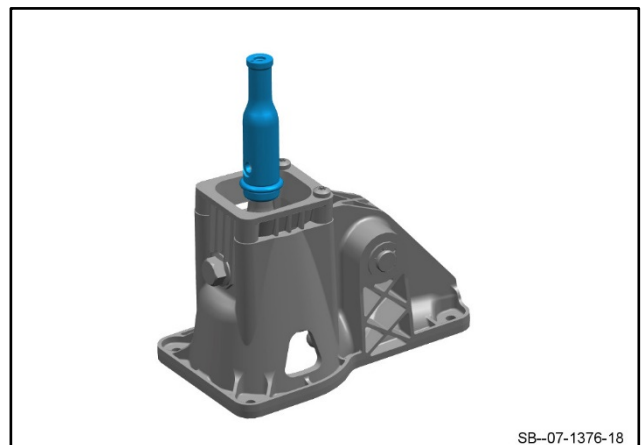


Figure 16

19. Install and tighten the screw that attaches extension for the gear selector (refer to Figure 17).

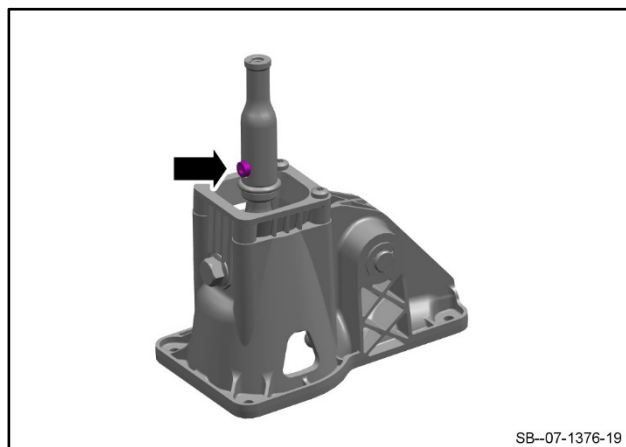


Figure 17

Part B - Shifter Cables

20. Measure and record the distance between the centre of the ball joint (1) and the adjustment nuts (2) and adjust to the dimension shown (refer to Figure 18).

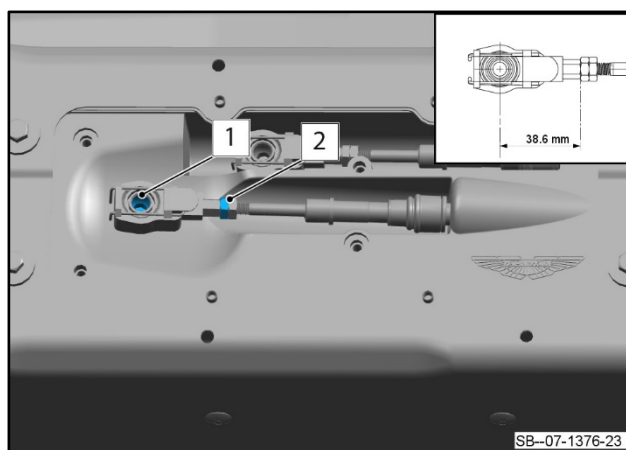


Figure 18

21. Remove the ball joints from the shifter cable (refer to Figure 19).

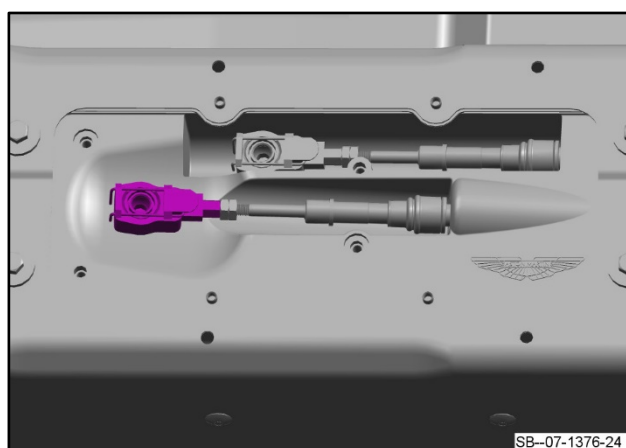


Figure 19

22. Install the new ball joint to the shifter cable (refer to Figure 20). The distance to the centre of the new ball joint to the adjustment nut must be the dimension shown.

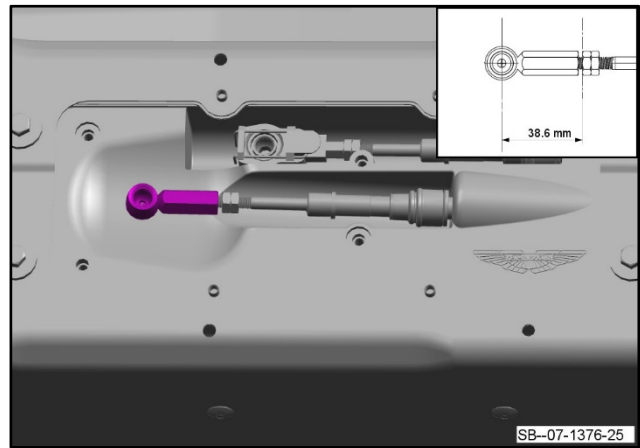


Figure 20

23. Tighten the locking nut to hold the ball joint at the correct position (refer to Figure 21).

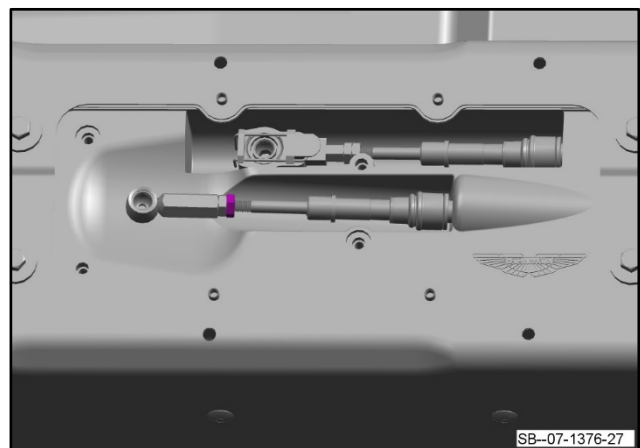


Figure 21

24. Do steps 20 to 23 for the second shifter cable.

Part C – Shifter Baseplate

25. Position the extractor tool over one of the brass inserts and tighten the screw to pull the brass insert out of the base plate (refer Figure 22).

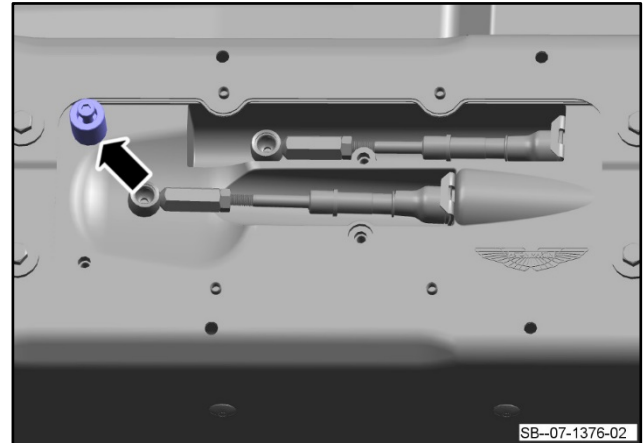


Figure 22

26. Use the extractor tool to remove all four brass inserts from the base plate (refer to Figure 23).

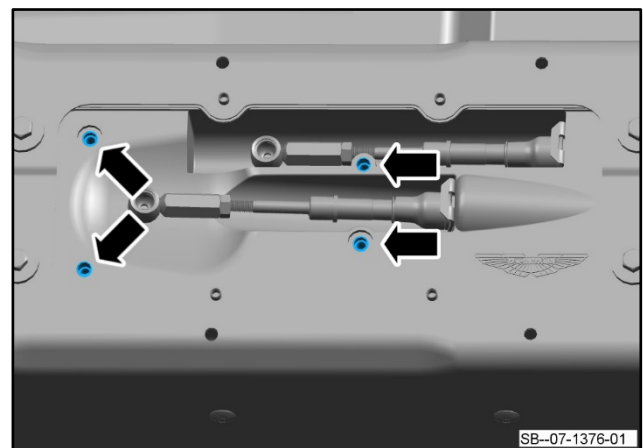


Figure 23

27. Apply applicable protection to the vehicle interior around the work area.

28. Use a drill with a 6.5 mm drill bit to increase the size of the four holes shown (refer to Figure 24). Drill to a depth of 20 mm.

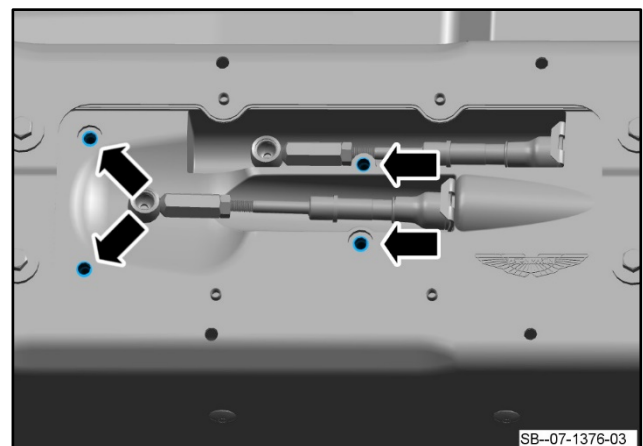


Figure 24

29. Use a M8 x 1.5 tap and tap wrench to apply a thread to the four holes drilled in step 28.

30. Install the gearshift assembly (refer to Workshop Manual Procedure 07.06.AA).

Note: Use the supplied M8 x 1.5 screws supplied for installation step 4 of the Workshop Manual Procedure.

31. If shift performance is still not acceptable, adjust the gearbox honing (refer to Workshop Manual Procedure 07.06.BA).

Part Data

Description	Part Number	Quantity
Service Kit - Manual Transmission Handset	LY63-4A109-AA	1

Warranty Data**Procedure and Labour Time**

Description	Labour Time	ROT Code
Gearshift Assembly Mechanism – Service (as specified)	2.0	07.06.AK

Failure Mode Description

Select the failure modes that follow when you make a claim through the Warranty system:

Subsystem	Location	Component	Mode of Failure
POWERTRAIN	DRIVETRAIN - TRANSMISSION - MANUAL	MANUAL TRANSMISSION - GEAR SELECTION	POOR PERFORMANCE - HARD TO OPERATE

If you have any questions related to this document, please refer to the 'Contact Us' link on this webpage or contact your local Dealer or After Sales Manager.

The English version of this Service Bulletin is written in Simplified Technical English to ASD-STE100™.