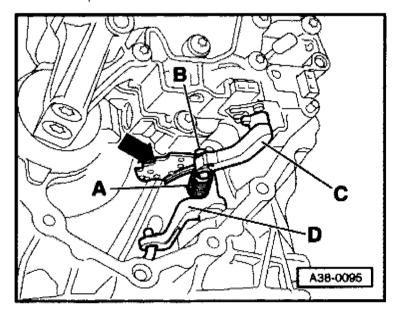
Hydraulic control module, removing and installing



- Observe general repair notes → Chapter.
- Rules for cleanliness when working on automatic transmission
- Always replace a dirty or faulty hydraulic control module.

Removing

- Remove end cover → Rep. Gr.38 or with removed transmission --- Chapter.
- Remove Transmission Control Module (TCM) -J217- → Chapter.
- Pull slider for selector lever position -Cdownward out of bearing hole of hydraulic control module.
- Disengage spring -A- from selector shaft -D-.



Remove bolts -arrows- and remove hydraulic control module.

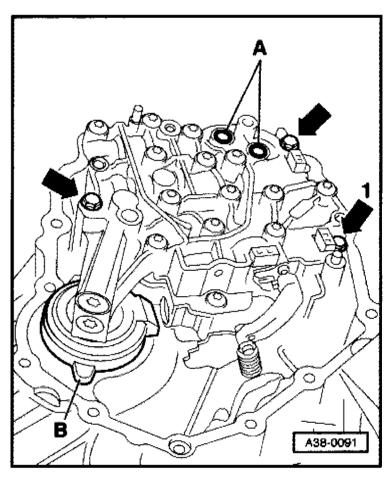
Installing

Install in reverse order, paying attention to the following:

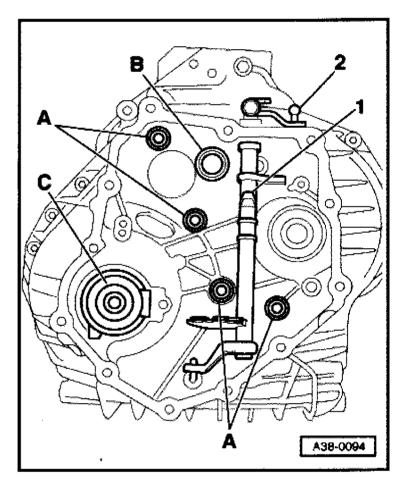


Note

Replace seals and O-rings.



- Replace axial sealing elements -A- (qty. 4) and -B-.
- Coat axial sealing elements with ATF before installing.
- Axial sealing elements -A- must be inserted into mounts with smaller diameter facing transmission.
- Install cover -C-, while doing so note locating tab.
- Locating tab on rear side of cover must be inserted into small hole on transmission surface.
- Push lever for selector shaft -2- completely toward front until it stops so that shifting eam -1- stands almost vertically (with slight tilt toward right).

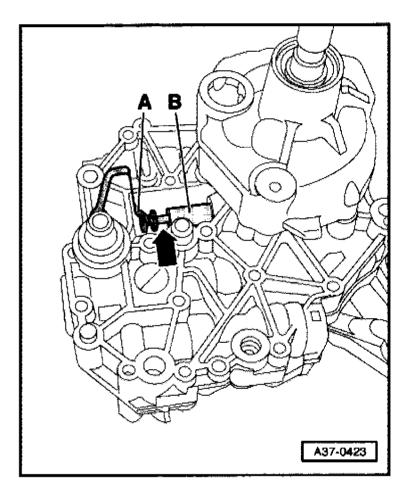


- Press control piston -B- on rear side of hydraulic control module completely inward (left) until it engages into assembly spring -A-.
- Insert hydraulic control assembly into transmission. Align unit properly to fit without jamming.



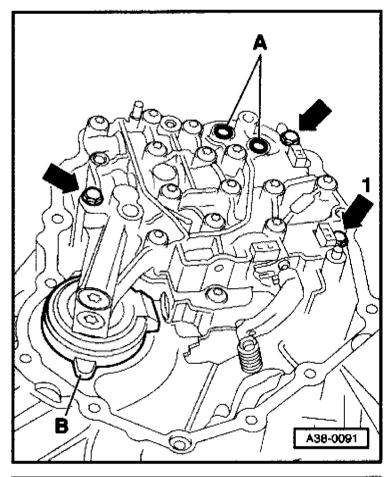
Note

When installing control module, make sure that shifting cam (item 1 in Fig. A38-0094 → Anchor) engages into free groove -arrow- on control piston -B-.

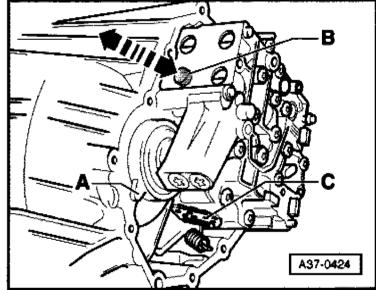


- Install screws -arrows- hand-tight. Screw arrow 1- is shorter than the other two screws.
- Check that cover is mounted properly.
- Locating tab -B- must be inserted into hole intended for it on the transmission.

Check function of control piston

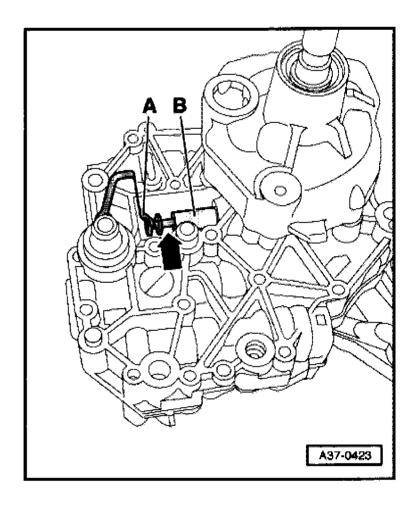


- Move selector shaft at detent plate -C- or at lever for selector shaft several times toward left and right.
- When doing this, control piston -B- must travel outward and inward accordingly -arrow-.



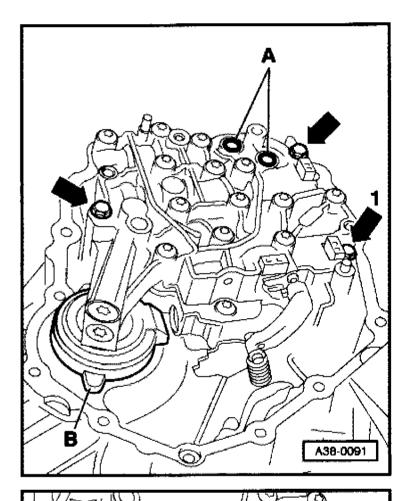
If control piston does not move, shifting cam has not engaged into groove -arrow- at control piston on rear side of hydraulic control module. In this case:

 Remove hydraulic control module once again and insert again. www.europeantransmissions.com



Tighten bolts -arrows-.

Installing slider for selector lever position

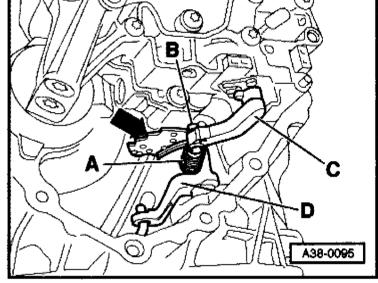


- Connect roller -B- with collar downward onto slider for selector lever position -C-.
- Engage spring -A- into selector shaft -D- and slider for selector lever position.
- Slide slider for selector lever position into bearing hole in housing of hydraulic control module.

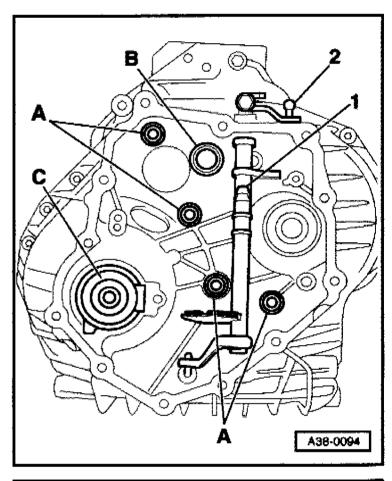


Note

For the sake of illustration, transmission is shown without hydraulic control module.



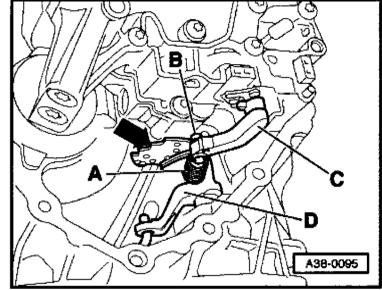
 Shift lever for selector shaft -2- toward front and rear until stop:



- Detent plate -arrow- moves toward front or toward rear.
- When doing this, it must allow the roller -B- to be engaged in the individual notches.
- Slider for selector lever position -C- moves in steps toward front or rear.
- Roller must be installed with collar facing downward so that it cannot be pulled off upward.
- Clean selector shaft → Chapter.
- Install Transmission Control Module (TCM) -J217- with new O-rings

 — Chapter.
- Install end cover → Rep. Gr.38.

Torque specification



Component	Nm
Hydraulic control module to transmission housing	10

Transmission Control Module (TCM) -J217-, removing and installing



Note

- Observe general repair notes → Chapter.
- Rules for cleanliness when working on automatic transmission
 → Chapter.

Removing

- Remove end cover from → Rep. Gr.38 or with removed transmission → Chapter.
- Remove bolts -arrows- and pull out Transmission Control Module (TCM) -J217without canting it.
- Remove twin lip oil seal -A- from Transmission Control Module (TCM) -J217-.



Note

When setting aside the Transmission Control Module (TCM) -J217-, make sure that sensors on the control module are not damaged.

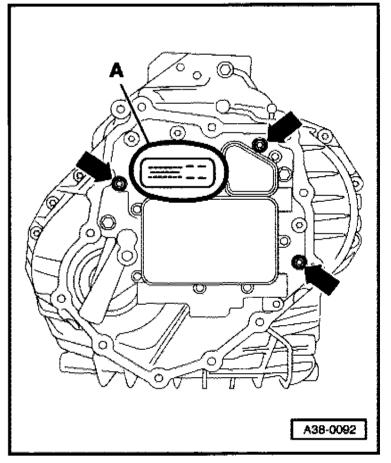
Installing

Install in reverse order, paying attention to the following:

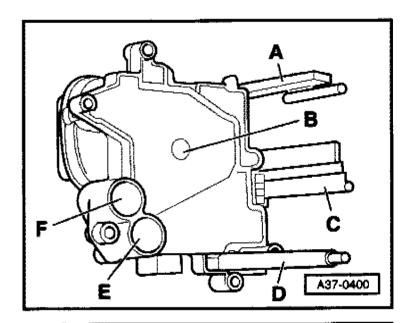


Note

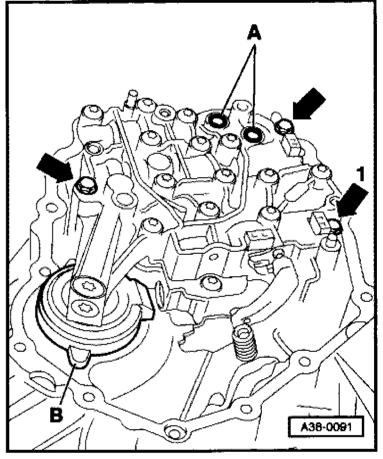
Replace seals and O-rings.



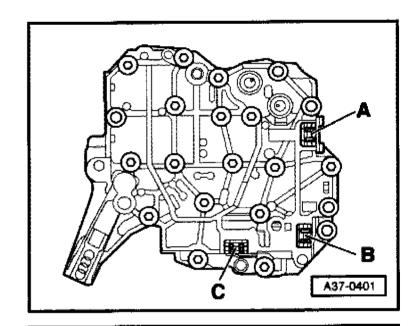
- If necessary, clean sensors -A-, -C- and -D- of dirt and metal shavings.
- Clean selector shaft → Chapter.



- Before installing Transmission Control Module (TCM) -J217-, coat new O-rings -A- on hydraulic control module with ATF.
- Install Transmission Control Module (TCM) -J217- without canting it.



 Harness connectors -A-, -B- and -C- on rear side of control module must engage on hydraulic control module.



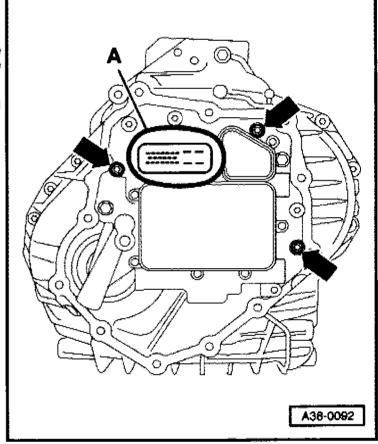
- Tighten bolts -arrows-.
- Install end cover → Rep. Gr.38.

After connecting Transmission Control Module (TCM) -J217-, the following work steps must be performed:

- Complete coding for new Transmission Control Module (TCM) -J217-.
- Perform adaptation for Transmission Control Module (TCM) -J217-.

Use Vehicle Diagnosis, Testing and Information System -VAS 5051 A- for this.

Torque specification



Component	Nm
Transmission Control Module (TCM) -J217- to hydraulic control module	10