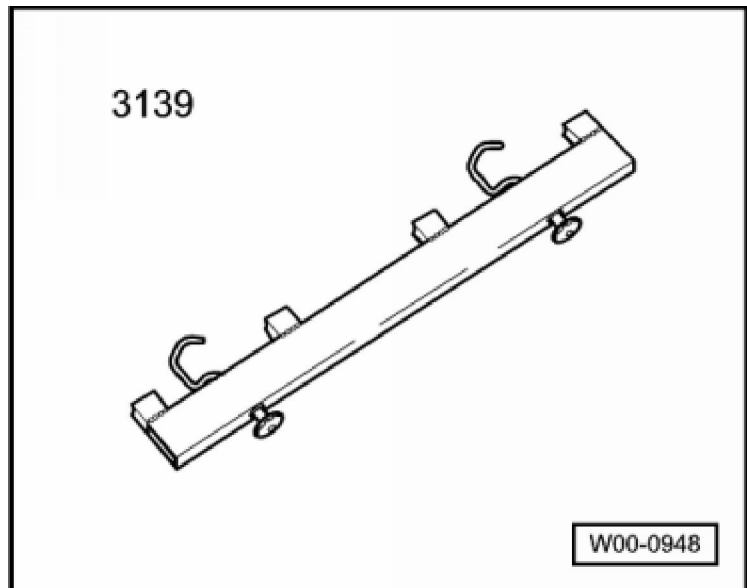


Driveshaft, Adjusting

Special tools and workshop equipment required

- t Alignment fixture -3139-



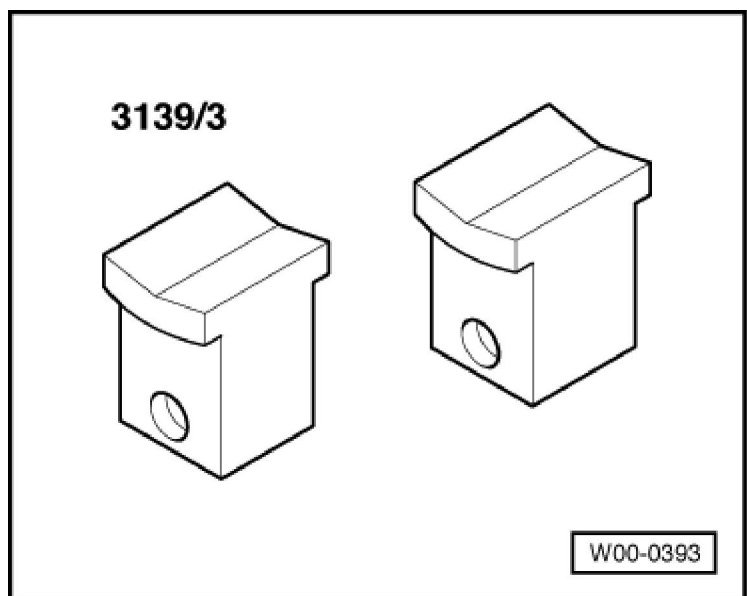
- t Spacing device -3139/3-

Work procedure

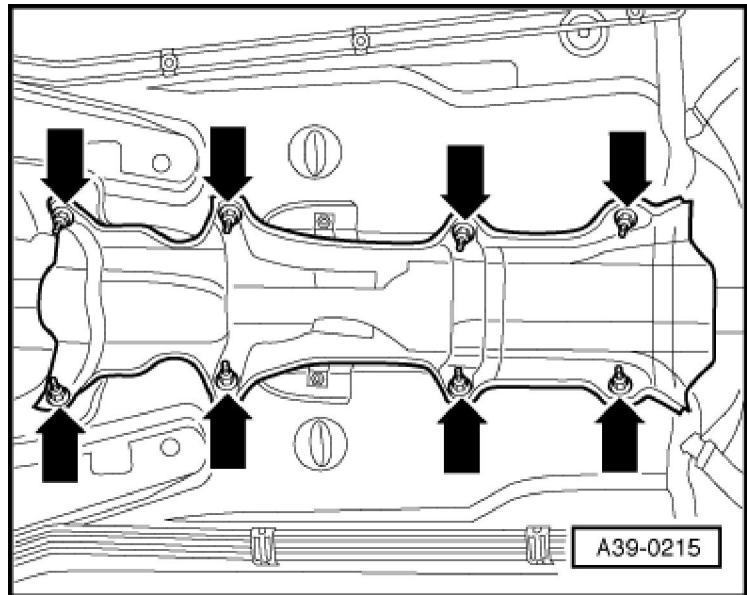
- See notes [Chapter „Driveshaft, Servicing“](#).

Perform adjusting work with extreme care because a poorly adjusted driveshaft is often the cause of vibrations and rumbling noises.

- If present, remove cross member below exhaust system.
- Remove rear part of exhaust system from clamping sleeve(s): [Engine Mechanical; Rep. Gr.26](#)



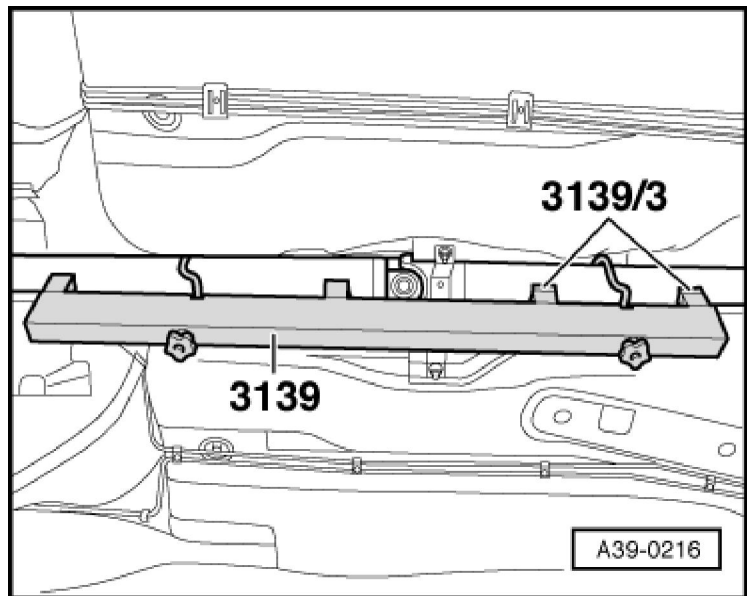
- Remove heat shields for driveshaft from body - arrows-



- Attach alignment fixture -3139- with adapters -3139/3- and tighten plastic nuts.

i Note

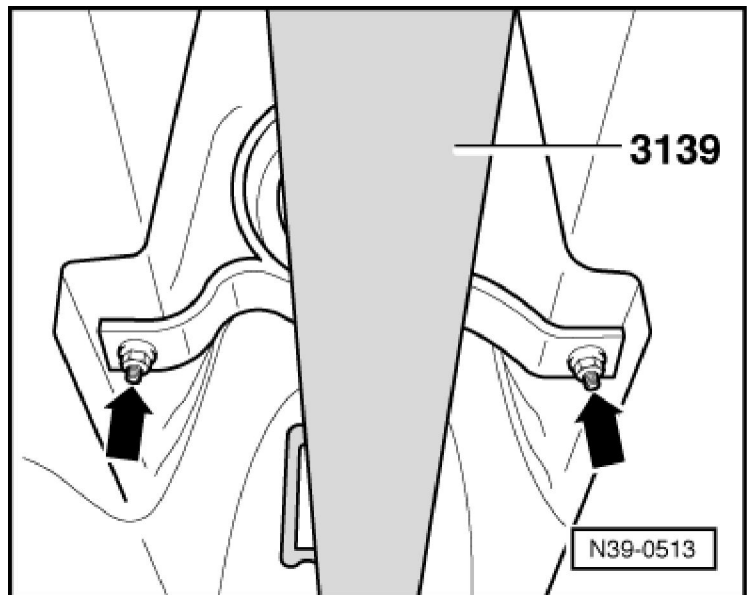
Never install assembly appliance onto balance plates.



- Remove securing nuts -arrows- for intermediate bearing.

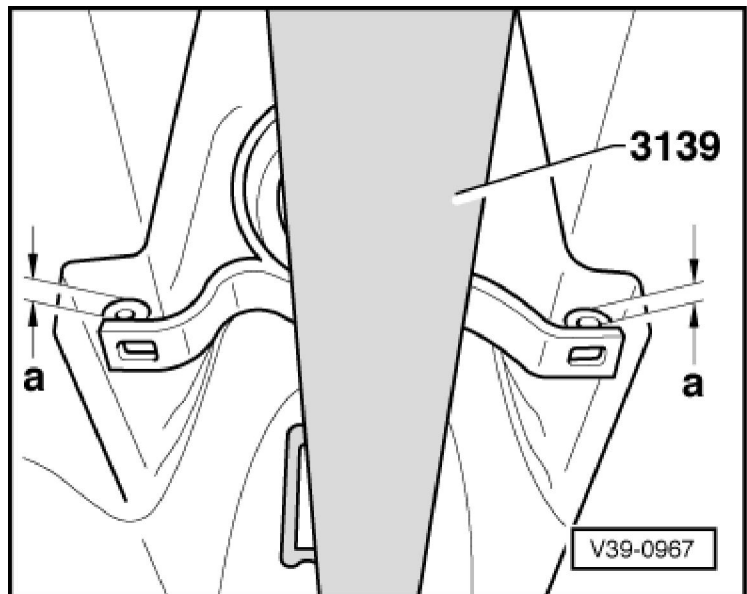
i Note

The stud bolt is not removed!



- Align driveshaft intermediate bearing so that distance -a- (left side) is equal to distance -a- (right side).
- Measure distances -a-.
- Identify shims according to the table. parts numbers [Electronic Parts Catalog](#)

Available shims:

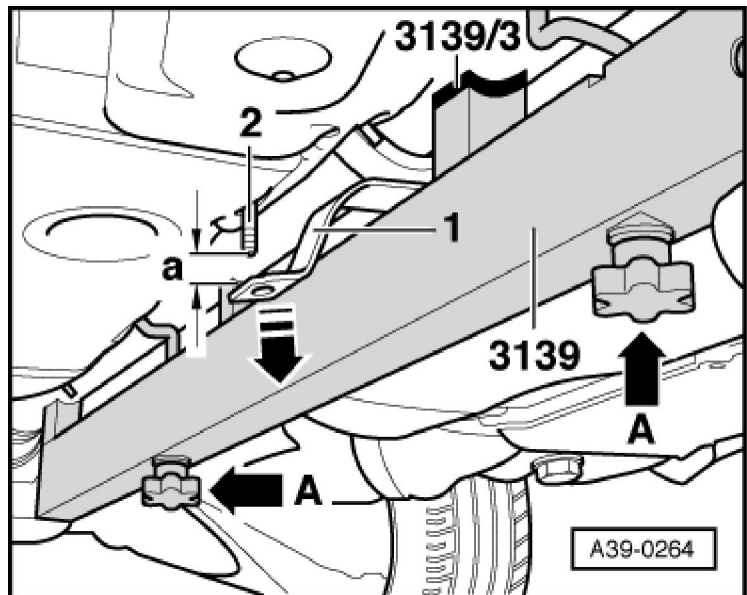


Distance -a- (mm)	Shim thickness (mm)
0 to 3.0	-
3.1 to 5.0	2
5.1 to 7.0	4
7.1 to 9.0	6
9.1 to 11.0	8
11.1 to 13.0	10

Install adjustment shims as follows:

- Loosen plastic nuts on Alignment Fixture - 3139--A arrows- far enough so intermediate

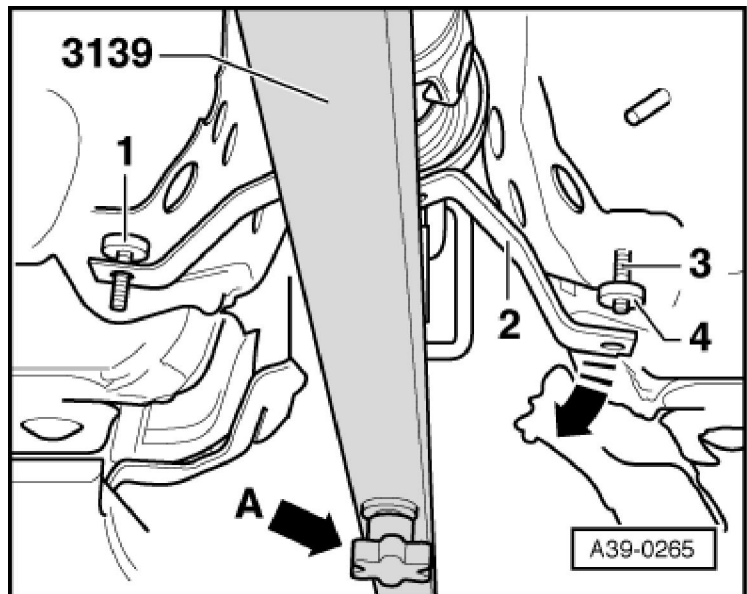
bearing bracket -1- has some clearance -a- to stud bolt -2- on one side.



- Insert determined adjustment shim -1- and swing bracket for intermediate bearing -2- to other side.
- Place second adjustment shim -4- onto stud bolt -3-.
- Tighten both plastic nuts on Alignment Fixture -3139--arrow A- again.

Align drive shaft axially:

- Slide driveshaft with assembly fixture rearward up to limit stop.



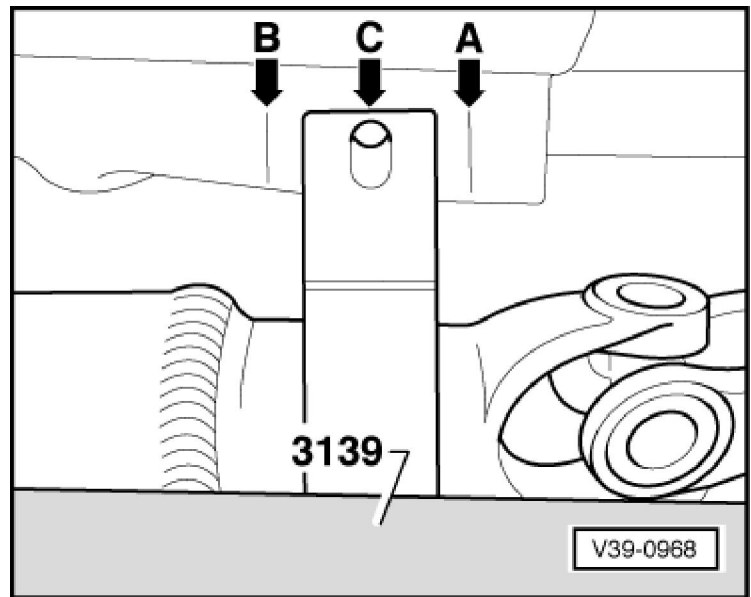
- Mark position of intermediate bearing to body - arrow A-.
- Then, slide driveshaft with Alignment Fixture - 3139- forward as far as stop.
- Mark position of intermediate bearing to body - arrow B-.
- Center driveshaft -arrow C-:
 - 1 Intermediate bearing must be centered between markings -A- and -B-
- Tighten intermediate bearing in centered position to 25 Nm -arrow C-.
- Then remove Alignment Fixture -3139-.

Further installation in reverse order of removal,

note the following:

- Position exhaust system free of tension:
Engine Mechanical; Rep. Gr.26

Torque specifications



Component	Nm
Center bearing to body	25
Front cross member below exhaust system to body	25
Clamping sleeve nuts	40