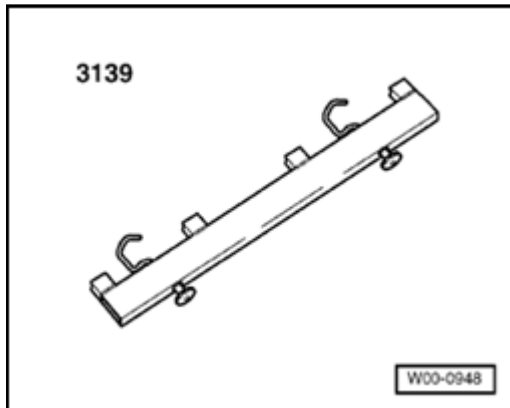


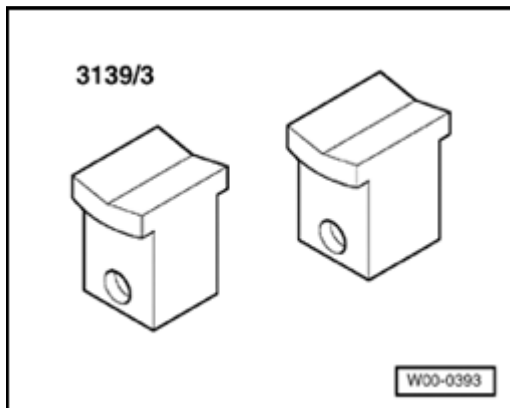
**Audi > C5 > 1998-2005**  
**5 Spd. Automatic Transmission 01L All Wheel Drive**  
**39F - Driveshaft, servicing**

**Driveshaft, adjusting**

**Special tools, testers and auxiliary items required**



\* Alignment fixture 3139



\* Spacing device 3139/3

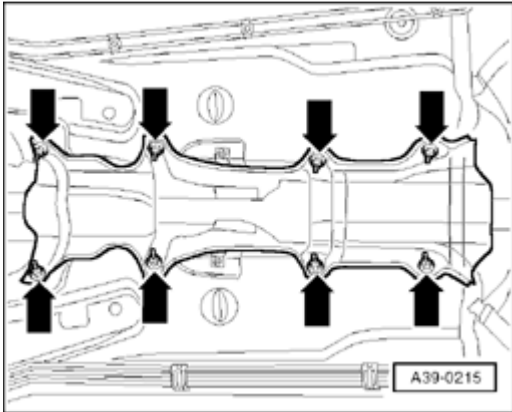
**Work procedure**

- See notes ⇒ [Driveshaft, servicing](#) .

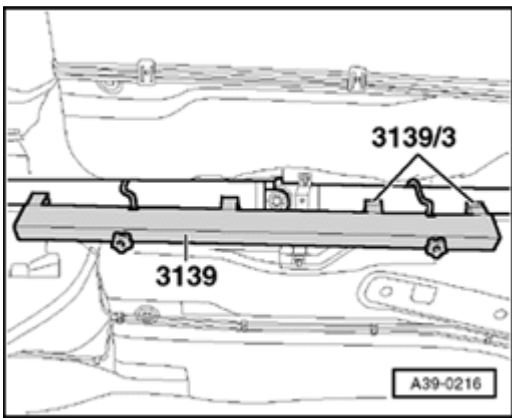
Perform adjusting work with extreme care because a poorly adjusted driveshaft is often the cause of vibrations and rumbling noises.

- If present, remove cross member below exhaust system.

- Remove rear part of exhaust system from clamping sleeve(s) ⇒ Engine Mechanical - Repair Group 26 .



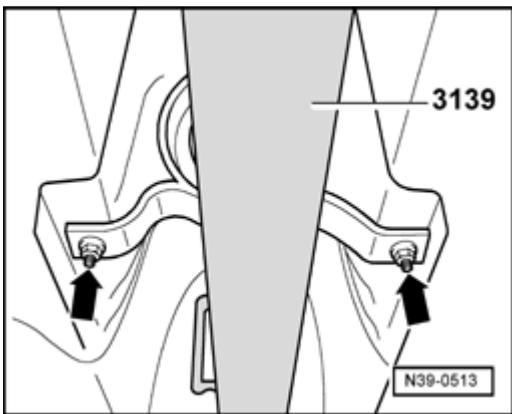
- Remove heat shields for driveshaft from body - **arrows** - .



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

**Note:**

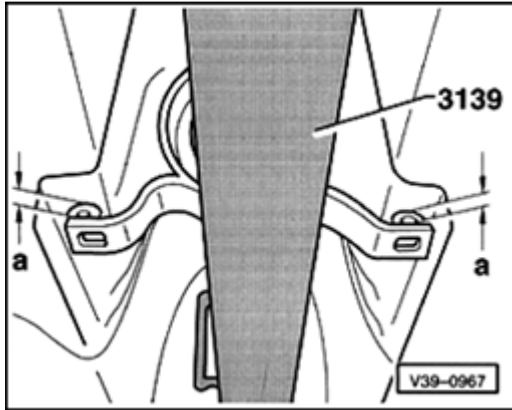
♦ *Never install assembly appliance onto balance plates.*



- Remove securing nuts - **arrows** - for intermediate bearing.

**Note:**

♦ *The stud bolt is not removed!*

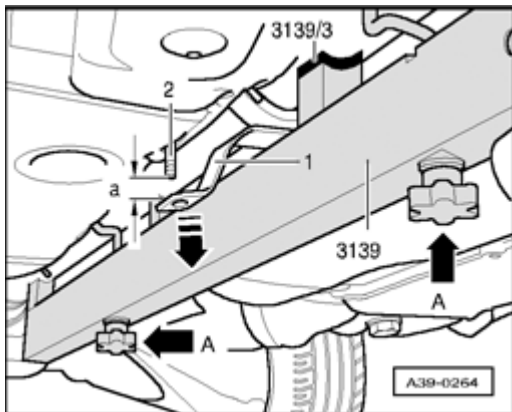


- Align driveshaft intermediate bearing so that distance - **a** - (left side) is equal to distance - **a** - (right side).
- Measure distances - **a** - .
- Identify shims according to the table. Par numbers Parts Catalog .

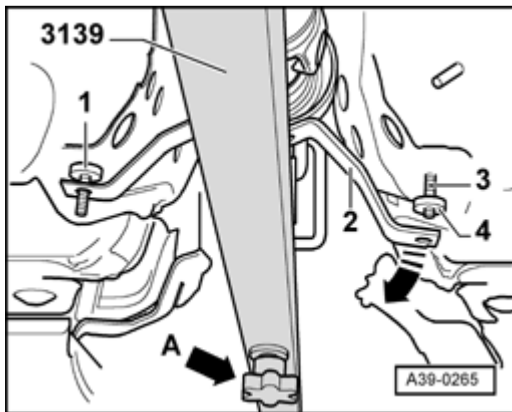
**Available shims:**

| Distance - <b>a</b> - (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                  |

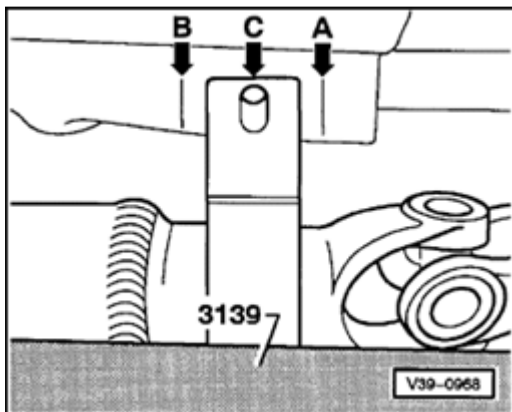
**Install adjustment shims as follows:**



- 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** - :
- 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 .

Installation in reverse order of removal, note the following:

- Position exhaust system free of tension ⇒ Engine Mechanical - Repair Group 26 .

### **Torque specifications**

| <b>Component</b>                                | <b>Nm</b> |
|---|-----------|
| Center bearing to body                          | 25        |
| Front cross member below exhaust system to body | 25        |
| Clamping sleeve nuts                            | 40        |

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