



Haynes
shows you how

BMW 3-Series and Z4 (99-05) Includes 2006 325ci/330ci Coupe and Convertible models Haynes Online Manual.

2 Gear selector components - removal and installation

Shift lever

Note:

A new shift lever bearing will be required on installation.

1 Raise the vehicle and support it securely on jackstands.

2 Remove the knob from the shift lever by pulling it sharply upwards. **Note:** *Do not twist the knob or damage will result to the turning lock.*

3 Carefully pry the shift lever boot from the center console, and withdraw the boot over the shift lever. Where applicable, also remove the foam insulation.

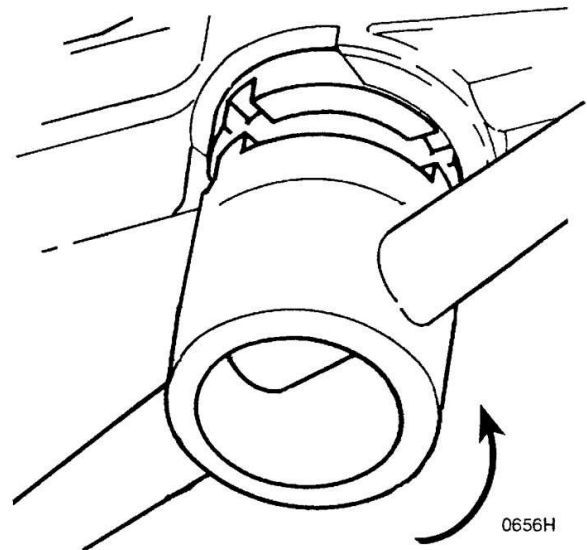
4 Working under the vehicle, pry the securing clip from the end of the gear selector rod pin. Withdraw the selector rod pin from eye on the end of the shift lever, and recover the washers (see illustration).

2.4 Slide the retaining clip from the selector rod pin



5 It is now necessary to release the shift lever lower bearing retaining ring from the gear selector arm. A special tool is available for this purpose, but two screwdrivers, with the tips engaged in opposite slots in the bearing ring can be used instead. To unlock the bearing ring, turn it a quarter-turn counterclockwise (see illustration).

**2.5 Turn the bearing ring counterclockwise
- special tool shown**



6 The bearing can now be pushed up through the housing, and the shift lever can be withdrawn from inside the vehicle.

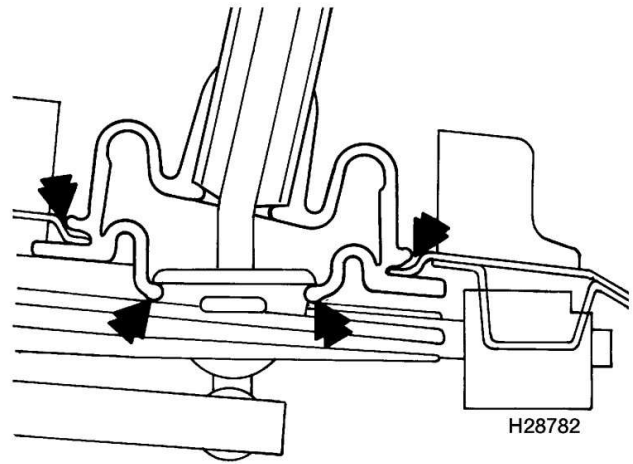
7 If desired, the bearing can be removed from the shift lever ball by pressing it downwards. To withdraw the bearing over the lever eye, rotate the bearing until the eye passes through the slots provided in the bearing.

8 Install a new bearing using a reversal of the removal process. Ensure that the bearing is pressed securely into position on the shift lever ball.

9 Reinstall the lever using a reversal of the removal process, bearing in mind the following points.

- A. Grease the contact faces of the bearing before installing.
- B. Lower the shift lever into position, ensuring that the arrow on the shift lever grommet points towards the front of the vehicle.
- C. Make sure that the shift lever grommet is correctly engaged with the gear selector arm and with the opening in the vehicle floor (see illustration).
- D. When engaging the bearing with the selector arm, make sure that the arrows or tabs (as applicable) on the top of the bearing point towards the rear of the vehicle.
- E. To lock the bearing in position in the selector arm, press down on the top of the bearing retaining tab locations until the tabs are heard to click into position.
- F. Grease the selector rod pin before engaging it with the shift lever eye.

2.9 The gear lever grommet correctly positioned with the selector arm and vehicle chassis



Gear selector shaft eye

Note:

A new selector shaft eye securing roll-pin will be required on installation.

10 Raise the vehicle and support it securely on jackstands.

11 Disconnect the driveshaft from the transmission flange, and support it clear of the transmission using wire or string. Refer to [Chapter 8](#) for details.

12 Pry the retaining clip from the end of the gear selector rod pin. Withdraw the selector rod pin from the selector shaft eye, and recover the washers.

13 Slide back the locking sleeve, then drive out the roll-pin securing the gear selector shaft eye to the end of the gear selector shaft (see illustration).

2.13 Slide back the circlip and drive out the pin



14 Pull the gear selector shaft eye off the end of the selector shaft.

15 Installation is a reversal of removal, bearing in mind the following points.

- A. Before installation, check the condition of the rubber washer in the end of the selector shaft eye and replace if necessary.
- B. Use a new roll-pin to secure the eye to the selector shaft.
- C. Grease the selector rod pin.
- D. Reconnect the driveshaft to the transmission flange as described in [Chapter 8](#).

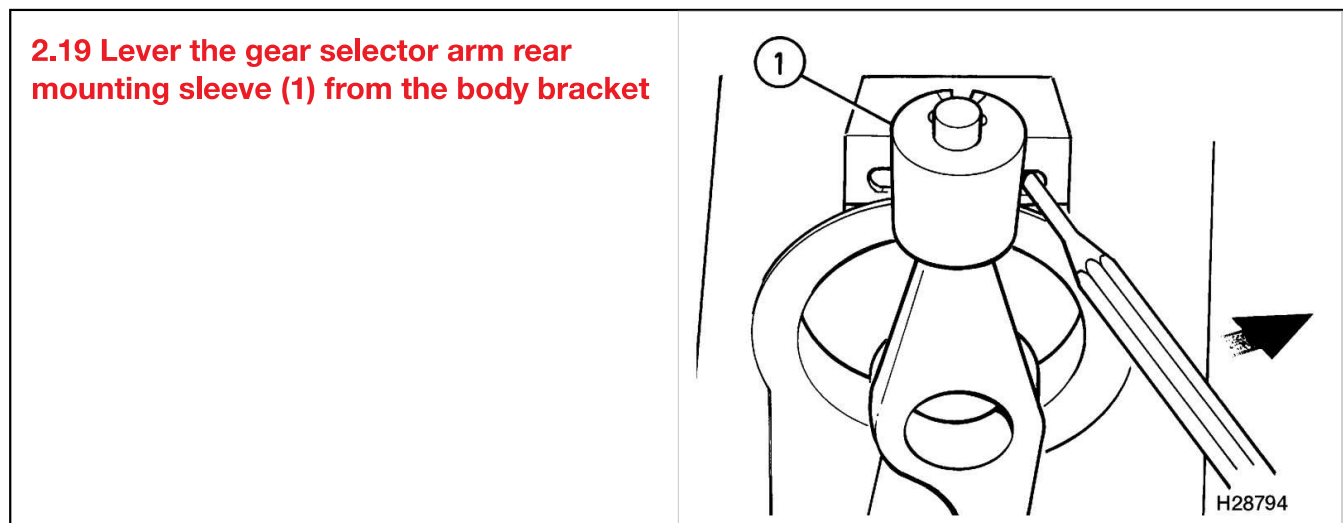
Gear selector arm rear mounting

16 Raise the vehicle and support it securely on jackstands.

17 Disconnect the driveshaft from the transmission flange, and support it clear of the transmission using wire or string. See [Chapter 8](#) for details.

18 Remove the shift lever as described previously in this Section.

19 Using a screwdriver or a small pin-punch, lever the mounting sleeve from the bracket on the body (see illustration).



20 Pull the mounting from the selector arm.

21 Grease the mounting, then push the mounting onto the selector arm, with the cut-out facing the rear of the vehicle, and the arrow pointing vertically upwards.

22 Clip the mounting into position in the bracket, making sure that the mounting is securely located.

23 Reconnect the driveshaft to the transmission flange as described in [Chapter 8](#), then lower the vehicle to the ground.

