



SHORT SHIFTER KIT INSTALLATION INSTRUCTIONS

PART NUMBER D550-1004

APPLICATION: 1984-88 325e (E30)
1990-91 318is (E30)
1990-93 318iC (E30)
1987-91 325i/is/iX (E30)
1987-93 325iC (E30)
1988-91 M3 (E30)
1992 318i, 325i (E36)
1993-95 318i/is, 325i/is (E36)
1994-95 318iC, 325iC (E36)
1995-99 M3, M3C (E36)
1996-98 318 i/is/iC, 328i/iC (E36)
1999 323i/iC, 328i/iC (E36)
1999-00 323i/ci, 328i/ci (E46)
2001-06 325i/ci/iT (E46)
2001-06 M3, M3C (E46)
1996-00 528i/iT, 540i (E39)
2001-03 525i, 530i, 540i (E39)
2000-03 M5 (E39)

PARTS LIST

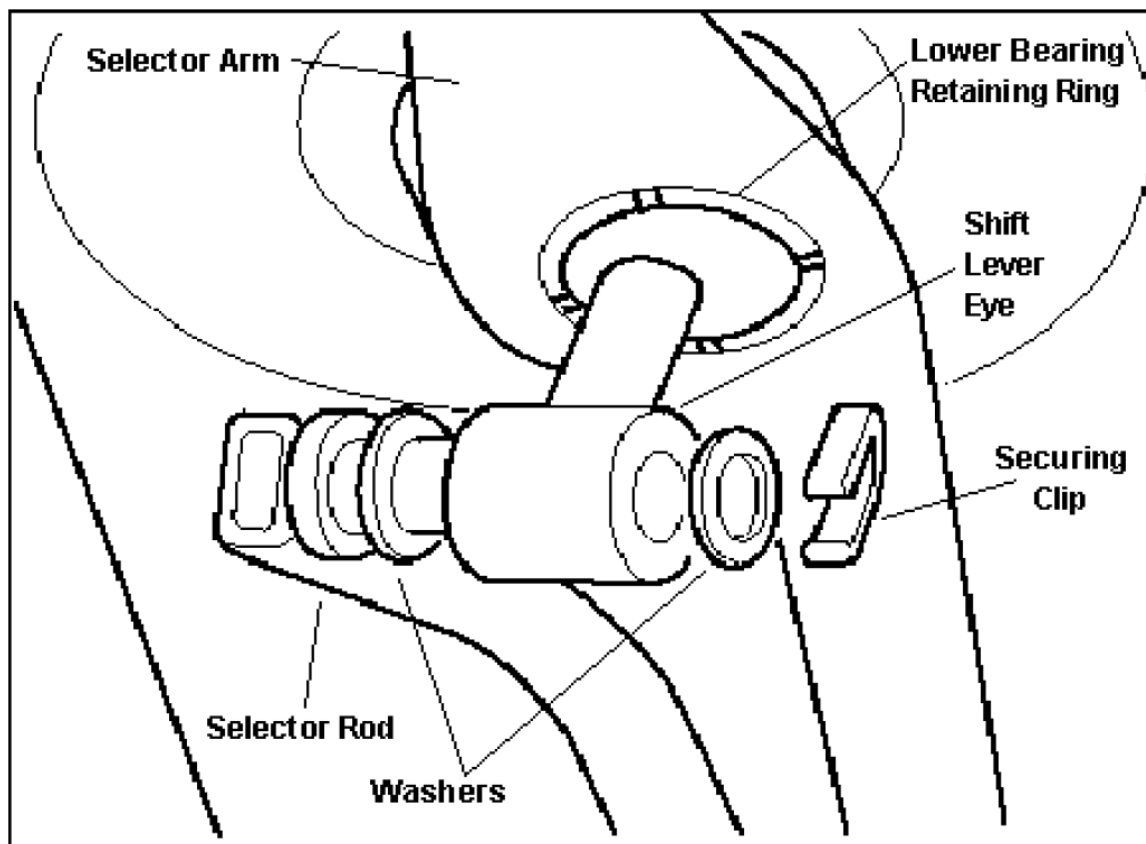
1	Short Shift Lever
1	Large Snap Ring
1	Small Spiral Retaining Ring
2	Teflon Bushings
1	Tie Wrap
1	Lithium Grease Packet
2	O-Rings (extra)
1	M3 Adapter Ring

Congratulations on being selective enough to use a Dinan short shifter kit. We have spent many hours developing this kit to assure that you will receive maximum performance and durability with minimum difficulty in installation. Please take the time to read these instructions and call us if you have any difficulties during the installation.

NOTES:

- a) We highly recommend that you first read and fully understand these instructions before beginning the installation.
 - b) Some mechanical skill is required to install this kit. If you feel that you do not have the requisite skill or tools, please arrange for a qualified repair facility to perform the installation.
 - c) Do not work on vehicles supported by a jack only. Use secure jack stands!
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1. Remove the knob from the shift lever by pulling it sharply upwards.
2. Unclip the shift lever boot from the center console and remove the boot over the shift lever. Where applicable, remove the foam insulation. Remove the rubber boot holding the shifter.
3. Raise and support the vehicle. The vehicle should be raised so there is at least 2 feet of ground clearance for ease of installation and safety. Make sure the vehicle is rigidly and securely supported – do not use jacks alone!
4. Working under the vehicle, pry the securing clip from the end of the gear selector rod pin. Remove the selector rod pin from the eye on the end of the shift lever, and set aside the washers and the securing clip as they will be reused. See Figure below.

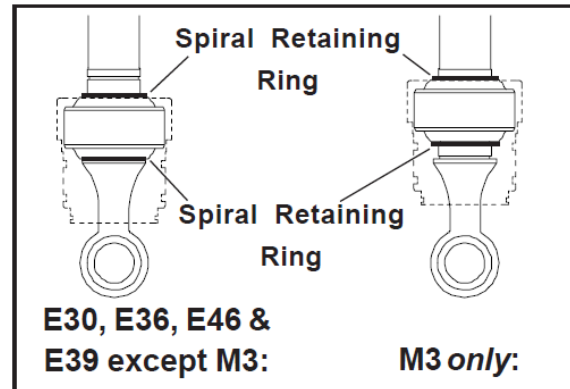


5. It is now necessary to release the shift lever lower bearing retaining ring from the selector arm (see Figure above). A special BMW tool is available for this purpose, but two screwdrivers, with the tips engaged in opposite slots in the bearing ring can be used instead. To unlock the bearing ring, turn it a quarter-turn counterclockwise.
6. The bearing can now be pushed up through the housing, and the shift lever can be withdrawn from inside the vehicle.

For non-M3 applications, please skip to Step 8.

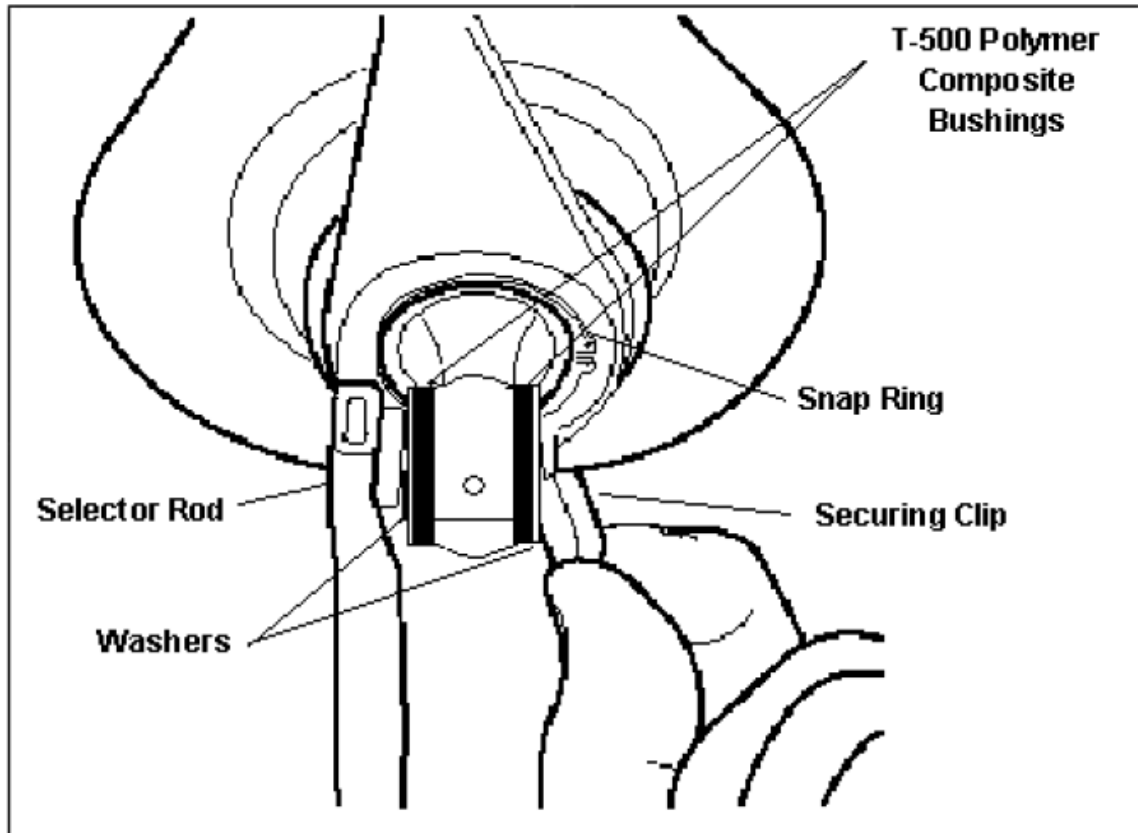
7. These sub-steps are for M3 applications only:

- a) For M3 applications, there are two adjustments that must be completed prior to installation.
- b) First, use two small flat head screwdrivers to adjust (much like a key ring) the spiral retaining rings to the upper groove position. See Figure. Note – it will be necessary to move the top ring above the top groove to the upper portion where the stick bends in order to access the lower ring.
- c) The second adjustment is the installation of the M3 adapter ring. Remove the O-rings on the bottom of the lower pivot cup, noting which is the upper and lower. From the bottom, completely slide the included M3 adapter ring onto the cup. Ensure the outer wall of the adapter ring is parallel with the pivot cup. Replace upper and lower O-rings. If damaged, use included replacement rings. See Figure.



8. Thoroughly clean the inner portion of the gear selector arm housing. Using the supplied lithium grease, generously lubricate this area and the O-rings on the blue shifter pivot extension of the Dinan shifter.

9. Insert the Dinan shifter into the gear selector arm housing. Make sure the blue shifter pivot extension sits flush in the gear selector arm housing (extra O-rings have been supplied if the installed O-rings should become damaged). Install the supplied snap ring into the bottom groove of the shifter pivot extension using external snap ring pliers. Verify that the snap ring has fully engaged the groove of the shifter pivot extension. See Figure below.



10. Using the supplied lithium grease, lubricate the selector rod pin. Gently insert the selector rod pin through the composite bushings in the shifter and install the washers were set aside earlier.
11. Reinstall the securing clip onto the groove of the rod pin. See Figure above.
12. Carefully lower the vehicle and install the rubber boot (seal the boot to the stick using the supplied tie wrap if necessary), the foam insulation, the shifter boot and the shift knob.
13. Slide the shifter through each gear, checking for binding or rough movement. If the shifter does not move smoothly, raise and support the vehicle and check that the washers are properly seated and that the linkage does not bind. **DO NOT** operate vehicle until each gear can be smoothly and fully engaged!
14. Happy Motoring!