

## Miata Short Shift Lever Installation Instructions

### 90-05 5-speed

PART # MXV6001

**Note:** The Mazda factory repair manual states there should be 80-95cc of oil in the “change control case” or “shifter turret” as it is more commonly referred to. The specified oil is API service GL-4 or GL-5 75W-90 or above 50°F 80W-90, the same oil the main body of the transmission is filled with, however the turret is not fed oil from the main case and therefore must be refilled or replaced by removing the shifter. Installing your short shifter is a great time to replace the old turret oil (if any is present) or simply make sure there is some oil in the turret.

1. Remove shift knob by rotating it counter-clockwise.
2. Remove the center console by first removing the cup-holder/ash tray directly behind the shift lever. Remove the two cross head screws at the front of the console. These two screws are located on the side of the console, just back from where it meets the vertical dash. Next remove the screw from under the cup-holder/ashtray area and then the two screws from the inside floor of the arm rest compartment.



**Illustration 2**

Gently lift the console at the front and pull it forward to release the fuel door/trunk lever(s) from the rear of it. The console will not pull completely free of the car, as it will have some wires attached to the bottom of it. Gently lay the console across the passenger's seat so that you can gain access to the shift lever.

3. Remove the sound deadening material from around the shift lever and the four 10mm headed bolts securing the black rubber dust boot from the transmission tunnel. Using a pair of wire cutters cut the white plastic ring around the neck of the shift boot to release it.



**Illustration 3**

Remove the dust boot to expose the shift lever and the top of the transmission.

4. Remove the three 10 mm headed bolts that retain the inner dust boot and shift lever. Gently pull the lever complete with the dust boot up and off the top of the transmission.



**Illustration 4**

## Installation Instructions

5. Gently pry the yellow plastic socket from the end of the original shift lever and snap it on the end of the new Short-Shift lever.
6. Insert the new Short Shift lever in to the transmission opening taking care to carefully seat the plastic socket into the hole in the gear selector. The lever will not go all the way home in the transmission unless the socket is properly seated. Insure that the slot in the large ball portion of the lever lines up with the alignment pin.
7. Install the new white plastic top washer and spring onto the lever ball. The spring washer will be toward the top with the washer against the ball. Next install the new inner boot and retainer with the three original 10mm headed bolts tightened securely.



**Illustration 7**

8. From the kit, slide the black rubber bushing down the shaft of the lever until it stops against the shoulder above the inner boot.



**Illustration 8**

9. Re-install the outer dust boot with the four 10mm headed bolts. Carefully fit the neck of the dust boot around the new bushing on the lever. Secure the neck

of the boot to the bushing with the Ty-Wrap strap supplied, trimming off the unused tail.



**Illustration 9**

10. Re-install the sound deadening material and the center console. Take care to pass the Fuel door/Trunk levers through the rear of the console first and then re-fasten with the mounting screws. Complete the installation by re-installing the shift knob.



**Illustration 10**