

TKO 500 / TKO 600 Shifter Top and Stop Bolt Kit

Installation Instructions

1. If the transmission is in the car, set the parking brake. Then remove the upper handle, shift boot and the rubber boot-plate on the transmission tunnel to gain access to the shifter.
2. Place the transmission in neutral. Remove the four bolts that hold the shifter top to the shifter base.

Carefully lift the shifter top up off of the base.

Do not lift up the springs. There are shims underneath the springs. If the springs are lifted out of position the shims may turn sideways and fall out of position. If this happens, make sure the shims are flat against the bottom of the springs before reassembling the shifter.

Install the new shifter top on the shifter base. **The end marked FRONT must be positioned towards the engine.**

The TKO 500 & 600 have a reversible shifter, which can be installed with the shift lever at the front or back. If the shifter is ever rotated 180 degrees to reverse the shifter position after the stop bolt kit is installed, the shifter top should be rotated so the word FRONT is towards the engine.

3. SET THE SHIFTER STOPS AS FOLLOWS:

- a) Back off the stop bolts so that the shifter moves freely into all gears
- b) Place the shifter in third gear. **Push forward firmly on the lever while turning the stop bolt in by hand until it contacts the shift lever. Once the stop bolt contacts the shift lever, back off the bolt 1/6 turn, until there is a small air gap (about .010") between the shift lever and the stop, while still applying pressure to the lever.** Pushing on the lever takes all of the slack or play out of the linkage, ensuring you get the proper adjustment.
- c) Hold the bolt with a 1/2" wrench while tightening the jam nut against the shifter top with another wrench.
- d) Double check the space between the shift lever and the stop bolt. **When you push very hard on the shift lever it should barely contact the stop bolt, but when you let go of the lever it should not touch the bolt, but instead have a small air gap between them.**
- e) Place the shifter in second gear and adjust the other stop bolt as outlined above.
- f) Shift the shifter through all gears and double check the stop clearance in each gear. **The shifter must be able to shift freely into all gears without interference from the stop bolts.**

! IMPORTANT! Stops that are set too close to the shift lever may prevent the gears fully engaging, causing serious damage to the transmission. The stop bolts are there to prevent the lever from being over -extended. They should not be engaged during normal operation. When in doubt, leave a little extra space between the lever and the stop bolt.

! IMPORTANT! Whenever the shifter is removed from the transmission the stop bolts must be reset when the shifter is reinstalled.

