



## 05-09 Mustang UPR Blu Thunder 3650 Shifter

### Stock Shifter Removal

1. Put the car in neutral.
2. Push the shift boot out of the retainer for the shifter knob and remove the shift knob.
3. Carefully pull up on the outer edges of the shift boot base and slide it up over the shift handle.
4. Remove the inner dust boot by pulling it up out of the floor pan opening and over the shifter stick.
5. Next you need to work under the car so either using a lift raise the car up or using a floor jack and jack stands to raise and support the car.
6. Locate the shifter linkage where it attaches to the shifter and using a 13mm wrench remove the hex nut that secures the linkage.
7. Use a 10mm wrench to remove the front bolt that secures the shifter arm beam to the transmission.
8. Use a 10mm wrench or socket and remove the two hex nuts that hold the rear shifter mount to the floor pan.
9. Back inside car you can now remove the shifter. This will take some patience, as it is very long.
10. Place the stock shifter and Blu Thunder shifter next to each other on a work surface.
11. Remove the two plastic bushings from the linkage arm on the stock shifter and place them into the new shifter.
12. Remove the two metal-flanged sleeves from the front rubber bushings in the stock shifter and place them into the new urethane bushings in the new shifter.
13. Remove the metal bracket for the rear rubber mount and place to the side for use later.

### Blu Thunder Installation

1. From inside the car, carefully insert the Blu Thunder shifter through the opening in the floor.
2. From under the car attach the front shifter arm to the transmission using the factory bolt, do not tighten yet.
3. Take the metal bracket removed earlier from the stock shifter and put it around the new urethane rear bushing and align it with the two metal studs and put two hex nuts on that were removed earlier, tighten but do not over tighten as you can break the studs.
4. Tighten the bolt holding the front of the beam to the transmission using a 10mm wrench.
5. Lubricate the plastic bushings where it attaches to the shifter linkage and make sure the long side of the arm is facing the driver side, then put the linkage through the arm and reinstall the hex nut and tighten with 13mm wrench. Loctite is recommended on this nut.
6. At this point the car can be safely put back on the ground.
7. From inside the car attach the provided shifter arm to the shifter base using the provided hardware.
8. Shifter Stop Adjustment. Start by backing off of the stop bolts so they won't make contact with the shifter arm. Pull the shifter arm back into 2<sup>nd</sup> gear and adjust the back bolt so that it just touches the shifter arm then back it off ¼ turn and tighten the jam nut. Repeat this step for 3<sup>rd</sup> gear. Check 4<sup>th</sup>, 5<sup>th</sup> and Reverse to make sure stop bolts are not making contact with the shifter arm.
9. Reinstall the inner shifter boot into the floor and make sure that boot seals around the shifter base.
10. Reinstall the center console shifter boot/bezel. The boot can be pushed down around the handle or reattached to the retainer on the shift knob.
11. Install the new shift knob and slide the boot into retainer groove.

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