

## 79-93 MUSTANG SPINDLE MODIFICATION FOR COBRA/GT SYSTEMS INSTRUCTION MANUAL

VEHICLE MAKE: FORD  
 MODEL: MUSTANG  
 YEARS: 79-93 WITH STOCK SPINDLES

PRODUCT: 79-93 SPINDLE MODIFICATION KIT  
 INSTRUCTION REVISION: REVISION A  
 REVISION DATE: 4 APRIL, 2023



**READ NOTES BELOW BEFORE CONTINUING WITH SPINDLE MODIFICATION.**

**Items included in spindle modification kit:**

- (x2) 5/16-18 x .750 bolts
- (x2) Alignment bushings for 5/16-18 x .750 bolts
- (x1) 27/64 Cobalt drill bit
- (x1) 1/2-13 UNC hand tap

**Recommended supplementary items:**

- Appropriately sized tap wrench
  - Appropriate corded or cordless drill
  - Appropriate cutting fluid
  - Corded or cordless reciprocating saw with a metal blade
- OR**
- Corded or cordless angle grinder/circular saw with metal cutoff blade



- It is recommended to thoroughly read this instruction manual before beginning the spindle modification process. If any portion of the modification process is unclear, contact a FOXBODY BRAKES technical service representative. Failure to follow the instructions detailed within this manual could result in improper fitment and/or function of the brake system and/or any of its components for which this modification is necessary.
- All installations/modifications assume adequate mechanical skill and a factory service manual for the vehicle which the installation/modification is being performed.
- Any installation requiring the removal of a wheel to gain access requires use of appropriately rated jack stands.
- A selection of tools sufficient to complete the installation/modification is assumed and is the responsibility of the individual to have in his/her possession before attempting the installation or modification.
- A professional wheel alignment is required for any system in which the vehicle spindles have been removed and replaced/reinstalled. Follow factory prescribed procedures unless otherwise indicated.
- This manual details the spindle modification for one side of the vehicle. Complete the modification for both sides of the vehicle, following the instructions detailed within this manual.

## SPINDLE CLEANUP AND INSPECTION

FOXBODY BRAKES recommends a thorough cleanup of the vehicle spindles. **It is not necessary to remove the spindles from the vehicle for this modification.** It is recommended to replace spindles that show signs of significant damage/wear.

1. Carefully remove any existing brake components from the vehicle spindle, including factory dust shields.
2. Inspect the factory dust shield mounting holes for any signs of significant damage/wear and/or debris. If significant damage is present in these areas, it is recommended to replace the spindle. If debris is present in these areas, it is recommended to clean the area with a **soft/medium** utility brush and warm water to prevent damage to the area.
3. Inspect the spindle pin for signs of significant damage/wear and/or debris. If significant damage is present, it is recommended to replace the spindle. If debris is present, it is recommended to clean the area with a **soft** utility brush and warm water to prevent damage to the area.
4. Inspect all ball joints and spindle attachment points for signs of wear/damage. Replace worn/damaged components as necessary.

## SPINDLE CLEARANCE

1. Mark the areas to be removed for clearance of the new brake system. Refer to the photos below for the areas to be removed.
2. Carefully remove the marked areas with a Corded or cordless angle grinder/circular saw with a metal cutoff blade. Take care not to damage any areas surrounding the vehicle spindle.
3. Grind any sharp corners left from step 2 to prevent damaging the soft brake lines upon installation.



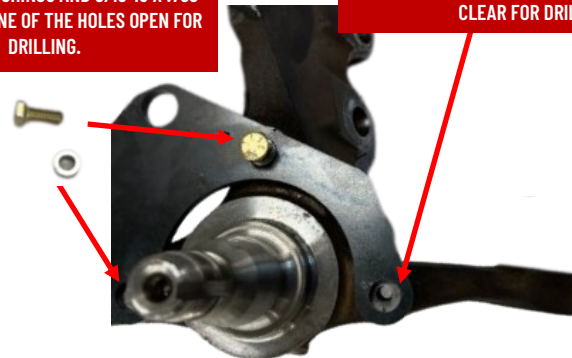
CAREFULLY REMOVE THE MARKED AREAS WITH A CORDED OR CORDLESS RECIPROCATING SAW WITH A METAL BLADE OR A CORDED OR CORDLESS ANGLE GRINDER/CIRCULAR SAW WITH A METAL CUTOFF BLADE. TAKE CARE NOT TO DAMAGE ANY AREAS SURROUNDING THE VEHICLE. GRIND ANY SHARP

## DRILLING THE DUST SHIELD MOUNTING HOLES

1. Mount the steel base bracket to the spindle using the alignment bushings and 5/16-18 x .750 bolts provided with this kit. This will be used as a guide to drill and tap each dust shield mounting hole, one at a time. It is necessary to leave one of the dust shield mounting holes clear for drilling. Refer to the photo on the right for mounting orientation.
2. Apply an appropriate cutting fluid to the drill bit.
3. Carefully drill the open dust shield mounting hole with an appropriate corded or cordless drill and the 27/64 drill bit. **It is recommended to place the corded or cordless drill on a low rpm setting to prevent excessive heating and/or binding of the drill bit.**

TEMPORARILY INSTALL THE BASE BRACKET TO THE SPINDLE WITH THE PROVIDED ALIGNMENT BUSHINGS AND 5/16-18 X .750 BOLTS. KEEP ONE OF THE HOLES OPEN FOR DRILLING.

LEAVE ONE OF THE DUST SHIELD MOUNTING HOLES CLEAR FOR DRILLING.



## TAPPING THE DUST SHIELD MOUNTING HOLES

1. Apply an appropriate cutting fluid to the 1/2-13 UNC hand tap.
2. Carefully hand tap the previously drilled hole with an appropriately sized tap wrench. Ensure the tap is started straight in the drilled hole. Complete one full turn at a time, and turn the tap wrench left then back right to help clear any chips. Repeat this process until the tap lead is all the way through the drilled hole.
3. Install one of the 1/2-13 x 1.25 bolts provided with the new brake system into the tapped hole and remove the 5/16-18 bolt and bushing from the top mounting hole.
4. Drill and tap the top mounting hole, following the instructions outlined above. Do the same for the third mounting hole, following the outlined instructions.

TAP THE HOLE THAT WAS PREVIOUSLY DRILLED. ENSURE THE TAP IS STRAIGHT INSIDE THE HOLE.

