

# 2015 + FORD MUSTANG GT350

## Exhaust Installation Instructions



**Thank you for your purchase, we appreciate your business.  
If additional assistance is needed, please contact Kooks Headers and Exhaust  
Toll free at 1-866-586-KOOK or contact your local dealer.**



**Do not attempt this installation if proper safety equipment isn't available to you - seek the assistance of a professional installer.**

**Read and understand all instructions before beginning.**

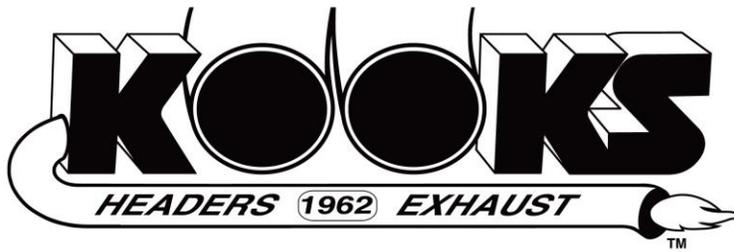
**To install this system, the following tools are suggested:**

- Vehicle Lift or Jack and 4 Jack Stands
- Engine Cradle
- Ratchet Set ( $\frac{1}{4}$ " &  $\frac{3}{8}$ " Drive)
- Metric Socket Set ( $\frac{1}{4}$ " &  $\frac{3}{8}$ " Drive)
- Extensions ( $\frac{1}{4}$ " &  $\frac{3}{8}$ " Drive)
- Pry Bar Set
- $\frac{7}{8}$ " O<sub>2</sub> Socket ( $\frac{7}{8}$ " Wrench)
- T-40 Torx Bit
- Gasket Scraper
- Exhaust Tubing Cutter or Saw
- Metric Wrench Set
- Standard Screwdriver Set
- Safety Glasses
- Paint Pen (Marker)
- Service Manual
- Thread Locker
- Anti-seize
- Zip Ties
- WD-40 (Penetrating Oil)

**Vehicle Preparation**

**\*\*Raise and Support Vehicle (Refer to Owner's Manual for specified jacking points) \*\***

**\*Always disconnect the battery before performing this type of work on any vehicle\***



## FACTORY EXHAUST REMOVAL

### **Note:**

- **Kooks Full Exhaust for '15+ Mustang GT350 requires installation of Kooks Headers**
- **Refer to Kooks Header installation instructions for removal of OEM manifolds & catalytic converters**

#### STEP 1. Battery

- Disconnect the battery if not already done.

#### STEP 2. Exhaust Valve Actuators

- Disconnect the weather-pack connector for each of the (2) exhaust valve actuators located on the muffler assemblies.

#### STEP 3. Factory Exhaust

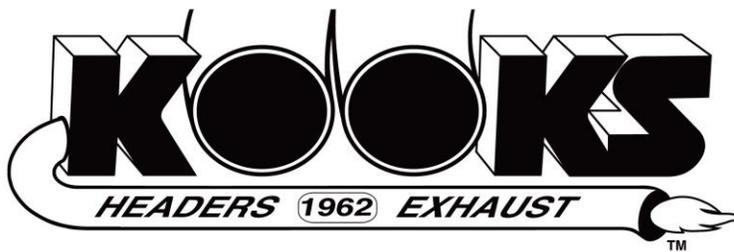
- Refer to Kooks header installation instructions for removal of the OEM manifolds and catalytic converters.
- With the OEM catalytic converters removed, the exhaust can be removed in one section.
- Support the front portion of the exhaust near the x-pipe, locate the forward exhaust hanger mounts (directly under the rear axle) and remove the bolts that attach them to the chassis. Keep track of these for later.
- Once the forward exhaust mounts are unbolted, support the rear of the exhaust and remove the rear hanger mounting bolts – (2) per mount. Keep track of these for later.
- The exhaust system can now be dropped out from underneath the car in a single section.
- With the exhaust out from under the car, remove the exhaust valve actuator motors and spring couplers. **NOTE: observe the installed orientation of the spring couplers. These will be reinstalled on the Kooks exhaust.**
- Before removing the (4) exhaust isolator brackets from the hangers, mark each of them to note their location. These will be placed on the Kooks exhaust during installation.

## KOOKS EXHAUST INSTALLATION

**\*\*All hardware should be tightened to factory specifications\*\***

#### STEP 1. Kooks Headers

- Align supplied gasket and start all of the top header bolts. Do not start the passenger side rear header bolt.
- Align headers on top header bolts and start remaining header bolts.
- Lower engine enough to allow for tightening of headers without header interfering with vehicle floor.
- Tighten headers to factory exhaust manifold torque specs, working from the center out in a circular pattern.



## STEP 2. Engine Mounts

- Apply thread locker to engine mount hardware.
- Lower engine onto engine mounts and center it in the vehicle.
- Tighten all engine mount hardware to factory spec.

## STEP 3. Starter

- Align Starter and start all three mounting bolts; then tighten bolts.
- Reinstall starter wires back in their original location. **\*\*Do Not over tighten\*\***

## STEP 4. Kooks Connection Pipes & X-Pipe

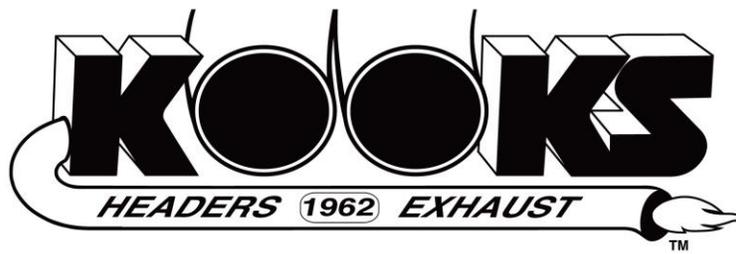
- Attach (1) connection pipe assembly to a header - doesn't matter which – and fasten loosely.
- Slide a supplied 3" band clamp over both inlets of the X-pipe assembly; the bolts should be pointing down and to the front/inside.
- Note orientation of X-Pipe: longer outlet leg must be on the Driver side when installed.
- With some means of support ready, raise X-Pipe assembly into place and slip over outlet of the installed connection pipe. Hold X-Pipe in position.
- Take the other connection pipe and slide its outlet into the other X-pipe inlet; rotate it up into position with the header. Attach loosely with supplied 2-bolt flange hardware.

## STEP 5. Kooks Mid-Pipes

- Slide the supplied 2-3/4" x 3" L barrel clamps over the factory exhaust at the cut location, with the bolts to the inside and facing down. These will be tightened later.
- On each of the Mid pipes, slide a 3" band clamp over the expanded end.
- Install the shorter Mid pipe on the left side exhaust, and the longer one on the right. When installed correctly, the outlet ends will align with the cut location of the factory exhaust.
- Slide the 2-3/4" barrel clamps over the outlets of the Mid pipes, centering their width over the pipe junction; do not tighten. This is a butt-joint and the pipes should meet end-to-end when the system is installed correctly.

## STEP 6. Mounting Actuator motors

- Reusing the factory spring couplers, install the exhaust actuators onto the Kooks muffler assemblies.
- Install the spring couplers first, in the same orientation as they were removed from the OEM exhaust. The hooked end of the coupler must be positioned between the two roll-pin locators on the actuator mount for it to function as required (and not set off a check engine light). See picture below.
- Once in position, fasten each actuator with the supplied 10-32 X 3/4" machine screws.



#### **STEP 7. Tightening Exhaust**

- Once all of the exhaust components are installed, adjust their position:
  - Ensure all slip-joints are seated past the notches.
  - Ensure fitment clearance is maximized.
  - Ensure barrel clamps are positioned correctly at OEM exhaust connection joint.
- Working from front to back, tighten connection hardware and clamps to spec.

#### **STEP 8. Battery and Battery Tray**

- Reinstall Inner Panel and Tighten Bolts.
- Align the Battery Tray and Tighten Bolts.
- Replace the Battery and Battery Hold Down Strap.
- Connect the Positive Battery Cable.
- Assure all steps have been completed and connect the negative Battery Cable.

#### **STEP 9. Inspection**

- Start Engine and check for any Exhaust Leaks.
- Allow Vehicle to complete one heat cycle (Heat to temp and allow for cooling).
- Re-torque Header Bolts and Header Hardware.