

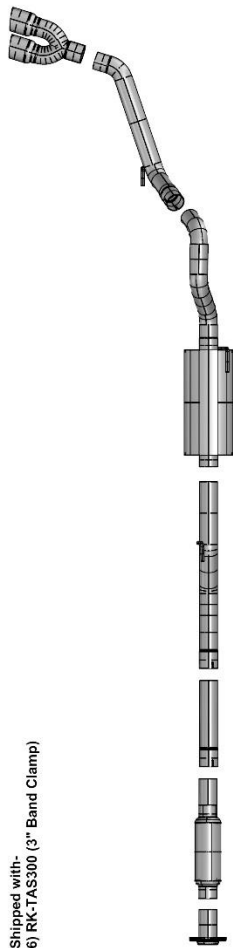
## **2015+ Ford F150 5.0L Coyote Headers and Exhaust Installation Instructions**



**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.**

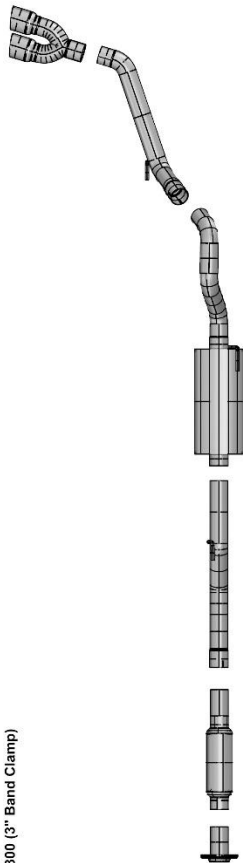
# System Layout

**2015+ F150  
5.0L Coyote**



Shipped with:  
6) RK-TAS300 (3" Band Clamp)

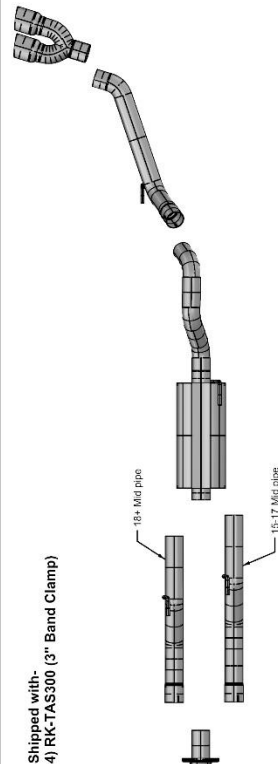
156.8" Wheelbase - Super Crew w/ 6.5' Box



Shipped with:  
5) RK-TAS300 (3" Band Clamp)

141.1" Wheelbase - Regular Cab w/ 8' Box  
145" Wheelbase - Super Cab w/ 6.5' Box  
145" Wheelbase - Super Crew w/ 5.5' Box

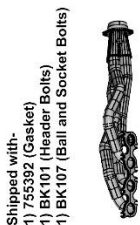
13614100 - 3" Catback 15+, 141.1 to 156.8" (Polished Tips)  
13514110 - 3" Catback 15+, 141.1 to 156.8" (Black Tips)



Shipped with:  
4) RK-TAS300 (3" Band Clamp)

122.4" Wheelbase - Regular Cab w/ 6.5' Box

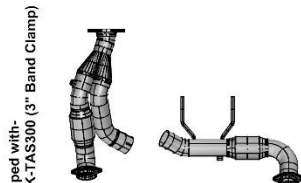
13614000 - 3" Catback 15-17 (Polished Tips)  
13614010 - 3" Catback 15-17 (Black Tips)  
13614050 - 3" Catback 18+ (Polished Tips)  
13614060 - 3" Catback 18+ (Black Tips)



Shipped with:  
1) 755392 (Gasket)  
1) BK101 (Header Bolts)  
1) BK107 (Ball and Socket Bolts)



13612200 - 1 3/4" x 3" Headers  
13612400 - 1 7/8" x 3" Headers



Shipped with:  
1) RK-TAS300 (3" Band Clamp)

13613101 - 3" x OEM Off Road Y-Pipe  
13613201 - 3" x OEM Called Y-pipe  
13613301 - 3" x OEM Green Y-Pipe



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

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

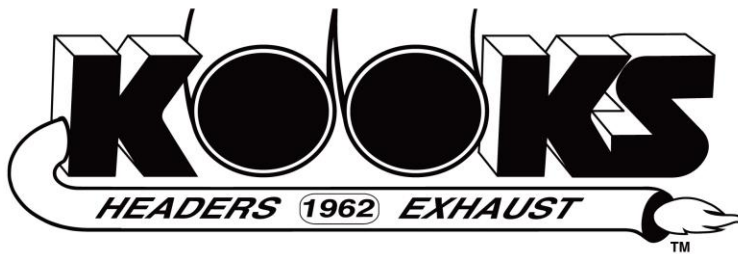
**To install this system, the following tools are suggested:**

- 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
- O<sub>2</sub> Socket (or Wrench)
- Gasket Scraper
- Metric Wrench Set
- T-40 Torx Bit
- Exhaust Hanger Pliers (groove joint pliers)
- Standard Screwdriver Set
- Safety Glasses
- Paint Pen or Marker
- Vehicle Service Manual
- Thread Locker
- Penetrating Oil
- Anti-seize
- Zip Ties

**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**

If installing catback follow steps 1 through 4

If installing headers and y-pipe follow steps 5 through 21

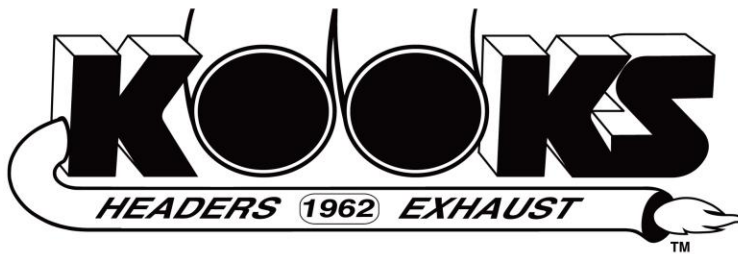
- STEP 1.** Loosen the factory exhaust at the 2 bolt flange (2) 10 mm bolts. Bolts will be re-used during install.
- STEP 2.** Loosen clamp at slip fit connection point (behind the 2 bolt flange connections point) and remove the front section of the pipe with resonator between the 2 bolt flange connection and slip joint.
- STEP 3.** Remove exhaust from all hangers – WD-40 helps to lubricate hangers
- STEP 4.** Remove catback from truck

### **Catback removal complete**

- STEP 5.** Remove skid plate on left side of transmission cross member (4) 8 mm bolts

**\*\*\*STEP 6 to 15 are required if you are planning to save the factory exhaust\*\*\***

- STEP 6.** Remove (12) 10 mm bolts from front drive shaft
- STEP 7.** Remove (2) 6 mm bolts holding left and right heat shields to transmission cross member
- STEP 8.** Support transmission and transfer case with jack stands
- STEP 9.** Remove (2) 12 mm nuts from transmission mount.
- STEP 10.** Remove (4) 12 mm bolts and nuts from cross member and remove cross member
- STEP 11.** Remove (1) 10 mm bolt from left Y pipe hanger
- STEP 12.** Loosen clamp on left head pipe
- STEP 13.** Unplug all O2 sensors
- STEP 14.** Remove (2) 10 mm nuts from left and (2) 10 mm nuts from right head pipes and remove head pipes
- STEP 15.** Reinstall cross member and mount and tighten



- STEP 16.** If you are not planning to save the old exhaust, you can cut hangers from Y-pipe to simplify removal of manifold pipes.
- STEP 17.** Remove remaining (2) 6 mm bolts from right heat shield and slide heat shield back toward the rear of the vehicle.
- STEP 18.** Remove starter and wires (1) 6 mm nut (2) nuts and (3) 8 mm bolts
- STEP 19.** Remove right and left side heat shields on manifolds (3) 6 mm bolts two per side
- STEP 20.** Remove (16) 10 mm nuts, 8 per side from manifolds and remove manifolds
- STEP 21.** Remove all (16) 10 mm studs from heads

## **KOOKS EXHAUST INSTALLATION PROCESS**

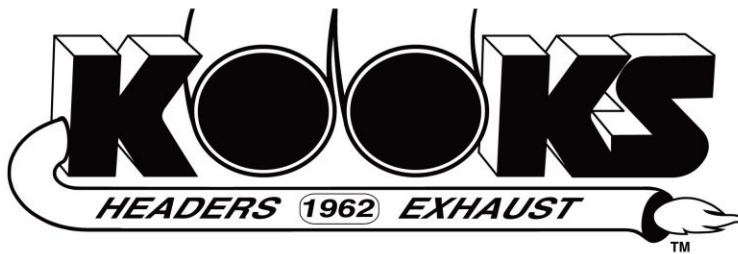
If installing headers and y-pipe follow steps 1 through 9

If installing catback follow steps 10 through 11

Always follow steps 12 through 15

- STEP 1.** Install Kooks Headers using supplied hardware. Tighten to factory torque specs.
- STEP 2.** Re-install starter
- STEP 3.** Re-install right heat shield
- STEP 4.** Re-install (1) 6 mm bolt back in left heat shield at cross member
- STEP 5.** Install Kooks Y-pipe. See system layout for how parts are assembled
- STEP 6.** Re-install all skid plates
- STEP 7.** Remove O2 sensors from old pipes and re-install in new pipes. Note that an O2 extension is provided for use with the left and right rear O2 sensors – install now. These sensors will have two external nubs removed from the male end. You may have to file off the two nubs on the male end of the mating male wire end so it can slip into the female end of this extension.
- STEP 8.** Secure the wires away from the driveshaft
- STEP 9.** Connect to factory exhaust at 2 bolt flange, re-use factory hardware.

**Headers and y-pipe install complete**



**STEP 10.** Loosely install Kooks Catback with supplied clamps. See system layout for how parts are assembled.

**STEP 11.** Adjust fitment for maximum clearance and looks. Be sure to have adequate clearance around all wires, hoses and lines. If anything is in contact with the exhaust system it will melt. Make sure to have at least ½” of clearance and wrap any suspect areas with DEI thermal barrier wrap. Tighten all clamps.

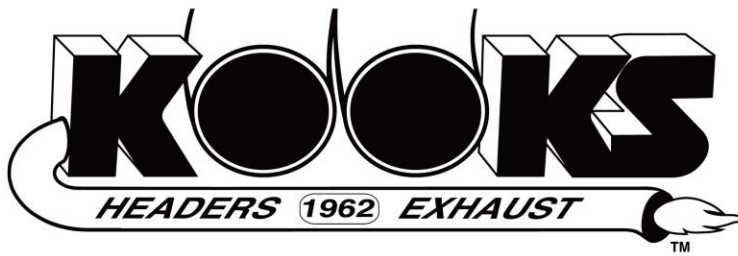
### **Catback install complete**

**STEP 12.** Clean all fingerprints/oil/grease from exhaust prior to starting engine

**STEP 13.** Reconnect battery. Start engine and check for exhaust leaks (tighten clamps as needed)

**STEP 14.** Allow engine to complete one full heat cycle (heat to operating temp, cool to ambient temp)

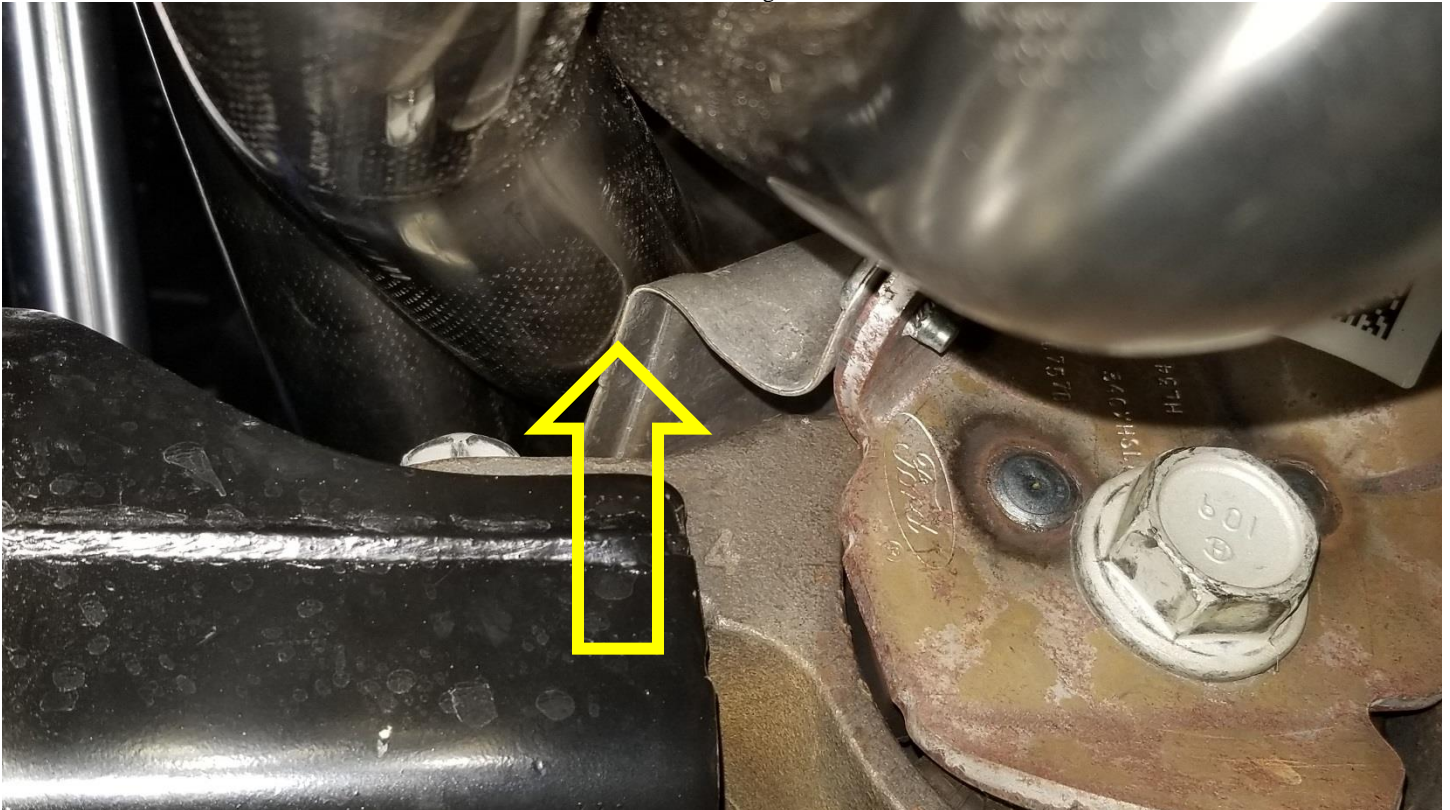
**STEP 15.** Re-torque all connections



**\*\*Note for 2018+ models\*\***

When installing headers on 2018 and up model year F150's, it is recommended that the *driver's side motor mount heat shield* be removed or modified to clear the primary tubes

See Image Below



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