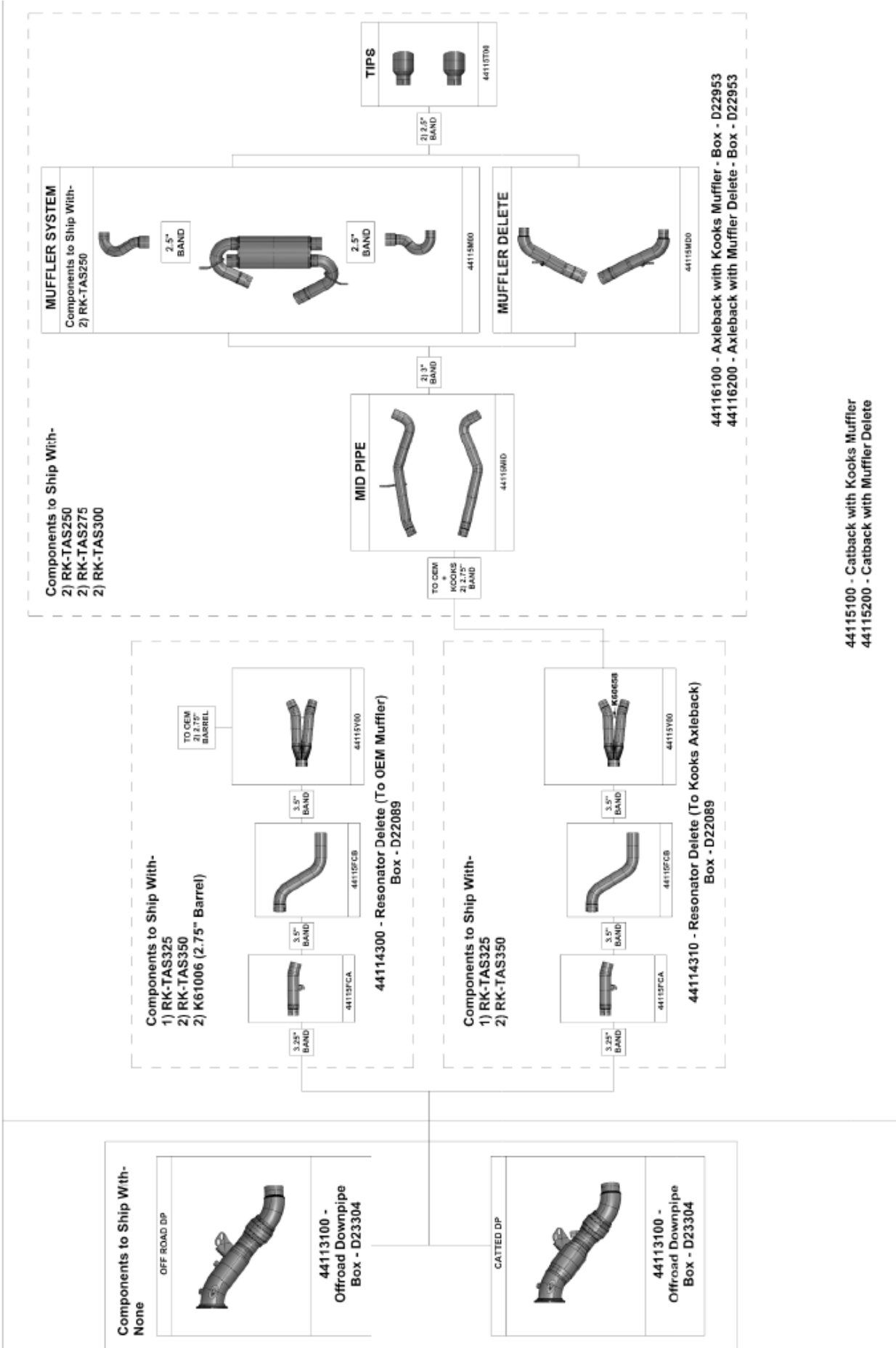


## **2020 Toyota Supra GR Installation Instructions**

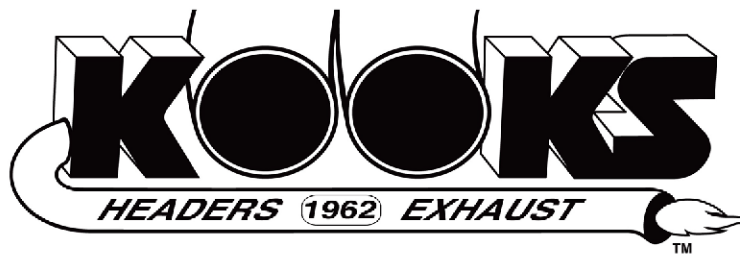


**Thank you for your purchase, we appreciate your business.  
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Toll free at 1-866-586-KOOK or contact your local dealer.**

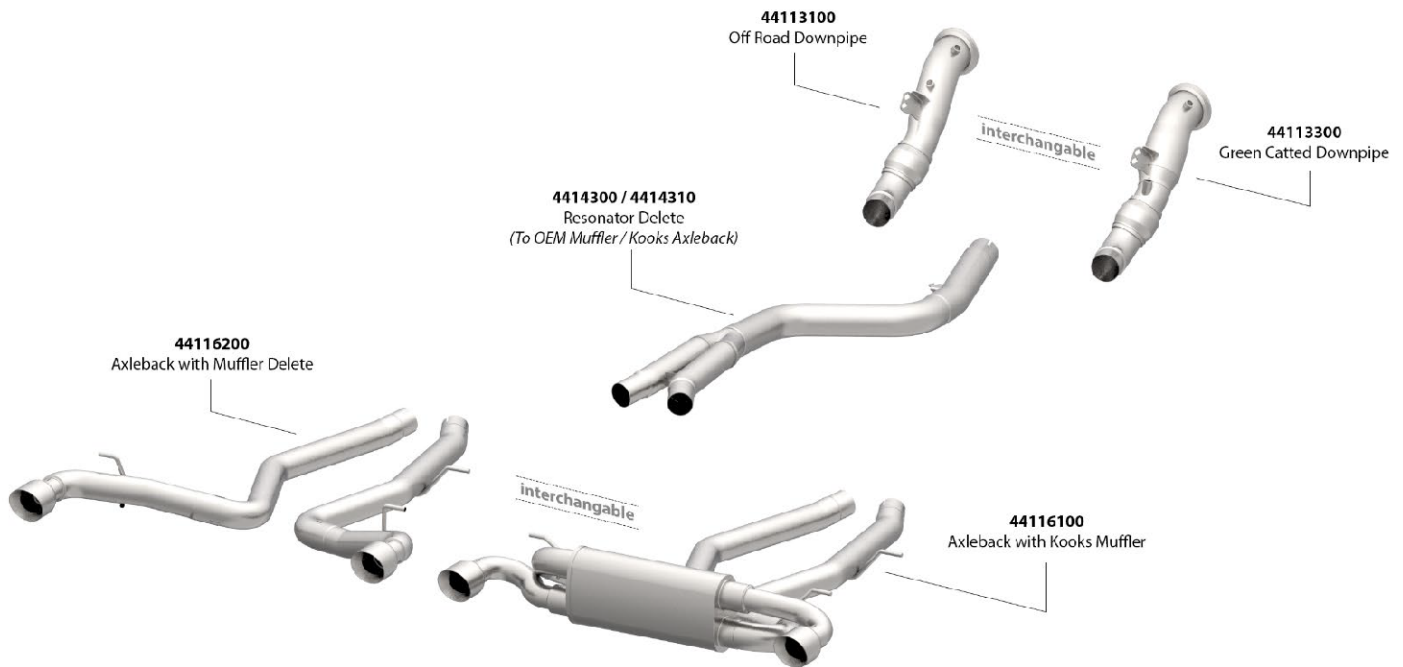
# System Layout



## 2020 Toyota Supra (install)



### Available options



### PART NUMBERS:

**44113100 – Off road Downpipe**

**44113300 – Green Catted Downpipe**

**44115100 – Cat back with Kooks Muffler** *(includes Resonator Delete & Axle back system)*

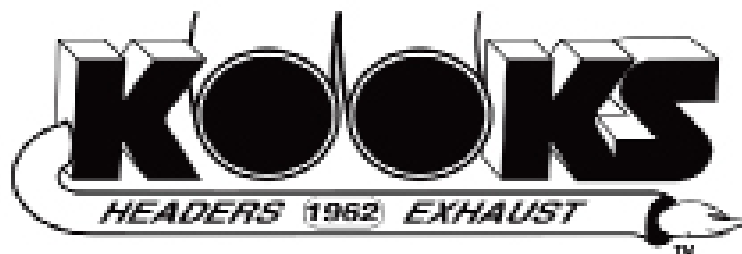
**44115200 – Cat back with Muffler Delete** *(includes Resonator Delete & Axle back system)*

**44114300 – Resonator Delete (To OEM Muffler)**

**44114310 – Resonator Delete (Kooks Axle back)**

**44116100 – Axle back with Kooks Muffler**

**44116200 – Axle back with Muffler Delete**



**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.**

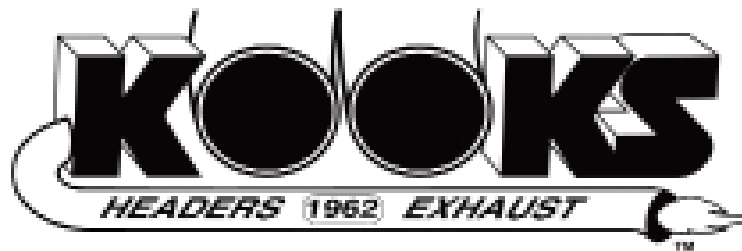
**To install this system, the following tools are suggested:**

- 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\***



## **Stock Exhaust Removal Process**

### **Step 1: Battery**

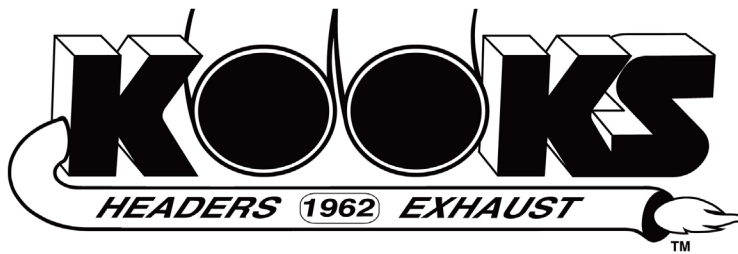
- Disconnect the negative and positive terminals of the battery

### **Step 2: Remove Components**

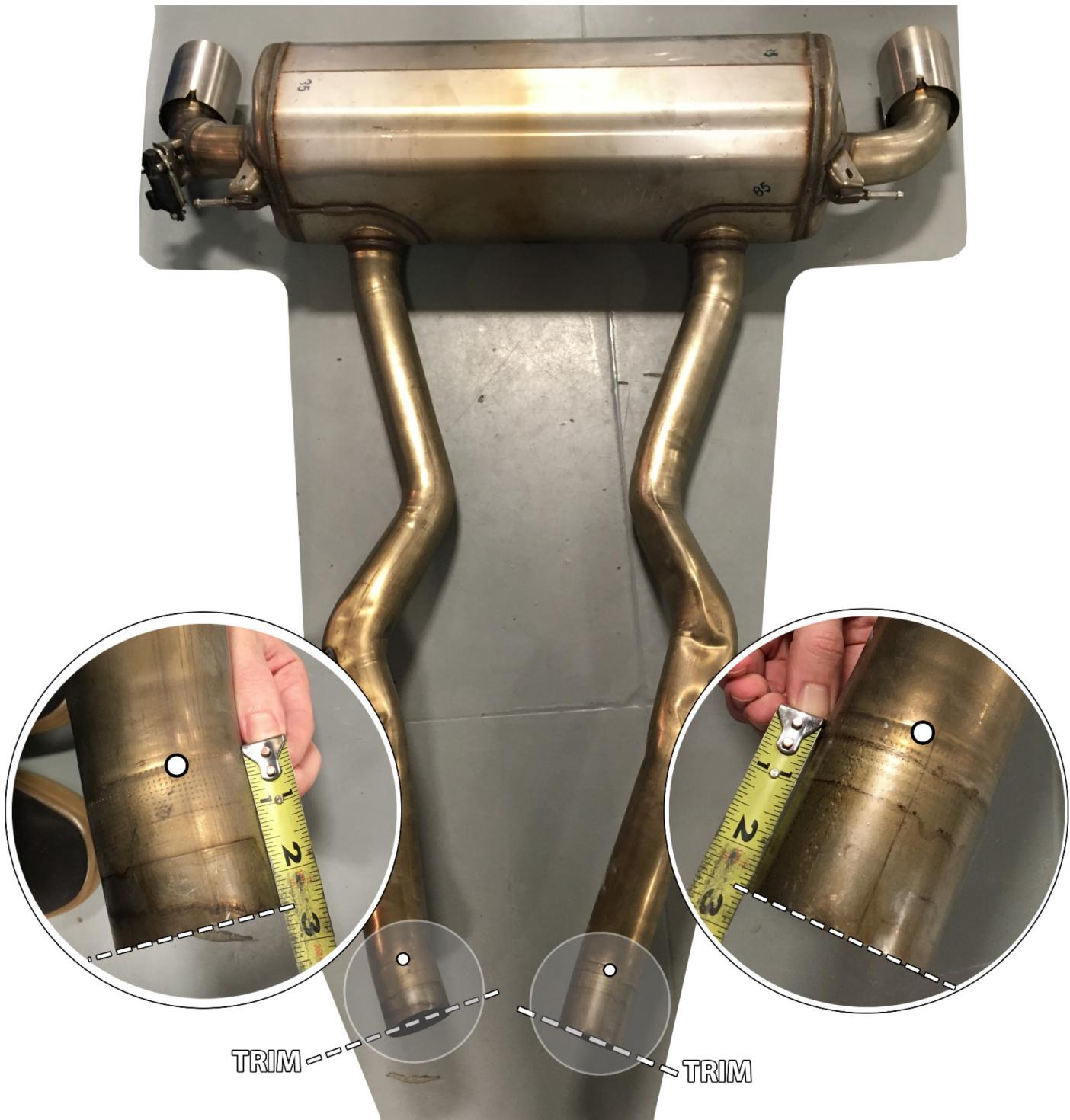
- Remove Engine Covers
- Remove Side Impact Brace (Located at bottom center of vehicle)
- Unbolt (4) hangers
- Disconnect Exhaust Valve at rear passenger side of system
- Unplug both Oxygen Sensors, on Downpipe located on passenger side of vehicle
- Unbolt V-band and remove downpipe
- Remove Components starting at the rear of the vehicle working your way forward.

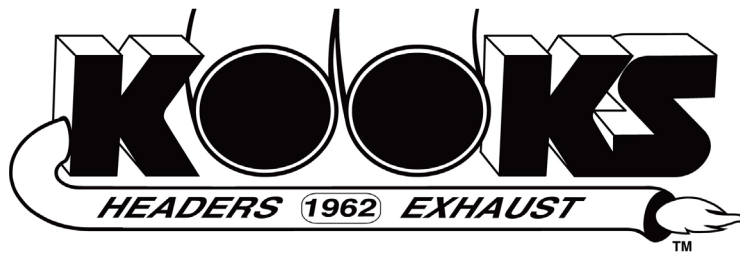
### **Step 3: Correct System Components**

- If using all parts of a KOOKS supplied exhaust system skip this section.
- If maintaining components from the OEM system in conjunction with KOOKS components please see following instructions on where to make modifications for proper fitment.
- If replacing only the OEM downpipe with a KOOKS downpipe (off road or green catted) All OEM items beyond will mount in factory locations with no further modifications required.



- If installing a combination of KOOKS Cat back components along with maintaining either the OEM Muffler or Resonator, the following modification is required to the OEM System:  
**TRIM – 2 ½” from tangent of bend (noted in image as white circles)**





## KOOKS INSTALLATION PROCESS

### STEP 1. Kooks Downpipe

- Install Downpipe (Off Road or Green Catted - *Be sure to re-install Oxygen sensors into downpipe in proper bung location*) by locating the hanger mounting bolts to the slotted Bracket mounted to the downpipe and start nuts onto threads but do not tighten completely at this point. Install V-band onto Turbo and Downpipe connection and tighten to factory torque specs. Then, tighten nuts on slotted bracket to factory torque specs. Then, slide resonator or resonator delete onto the Downpipe outlet. Place Clamp over this joint to hold in place but do not tighten completely. Reconnect Oxygen sensors from inside the engine bay.
- If installing Kooks Resonator Delete, continue to Step 2.
- If using OEM Cat back system, Re-install at this point and continue to Step 6.

### STEP 2. Kooks Resonator Delete

- Connect parts 44115FCA, 44115FCB, and 44115Y00 using supplied bands taking note of the system layout for proper diameter band locations.
- Install Resonator delete assembly by sliding onto Downpipe and installing clamp at joint. Then tighten nut at hanger bracket to factory torque spec.
- If Connecting to OEM Muffler, use supplied Barrel Clamps
- If Connecting to KOOKS Axle back, continue to step 3

### STEP 3. Kooks Axle back with Kooks Muffler (*Requires 2 people*)

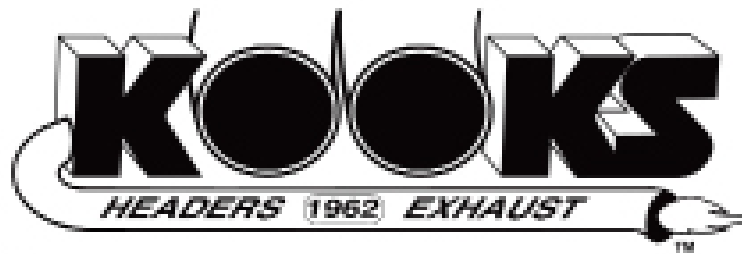
- Place 3" Band clamp over expanded end of both left and right pipes of Muffler. Slide Mid pipes (44115MID) into expanded pipes on Muffler taking note of System layout to insure proper direction. Place 2.5" bands onto muffler short legs, then place Muf-out pipes in proper locations and Tighten to spec (Take note that once the Muffler and Mid pipes are in place they will need adjustment for proper alignment on Vehicle.) Then, place mounting brackets onto Hanger rods, lift into place and slide assembly onto Y-pipe using correct bands noted in system layout. Tighten brackets and clamps to factory torque specs. Continue to Step 5

### STEP 4. Kooks Axle back with Kooks Muffler Delete

- Place 2.75" band over notched end of 44115MID, slip & loosely tighten onto Y-pipe, bolt down hanger on right side. Place 3" Band Clamp over non-reduced and notched end of both left and right Muffler delete pipes (44115MD0). Then, place mounting brackets onto Hanger rods, lift into place and slide onto mid pipes. Tighten brackets and clamps to factory torque specs.

### STEP 5. Exhaust Tips

- Place 2.5" Clamps onto Tips, then Place Tips onto Pipe outlets and tighten clamps to factory torque specs.



**STEP 6. Exhaust Alignment**

- Align the exhaust clear of all obstructions and position tips where desired.
- Tighten all clamps to specified torque.

**STEP 7. Inspect**

- Start Engine and check for any exhaust leaks.
- Allow vehicle to complete one heat cycle (heat to operating temperature and allow for cooling)
- Re-torque clamps.

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