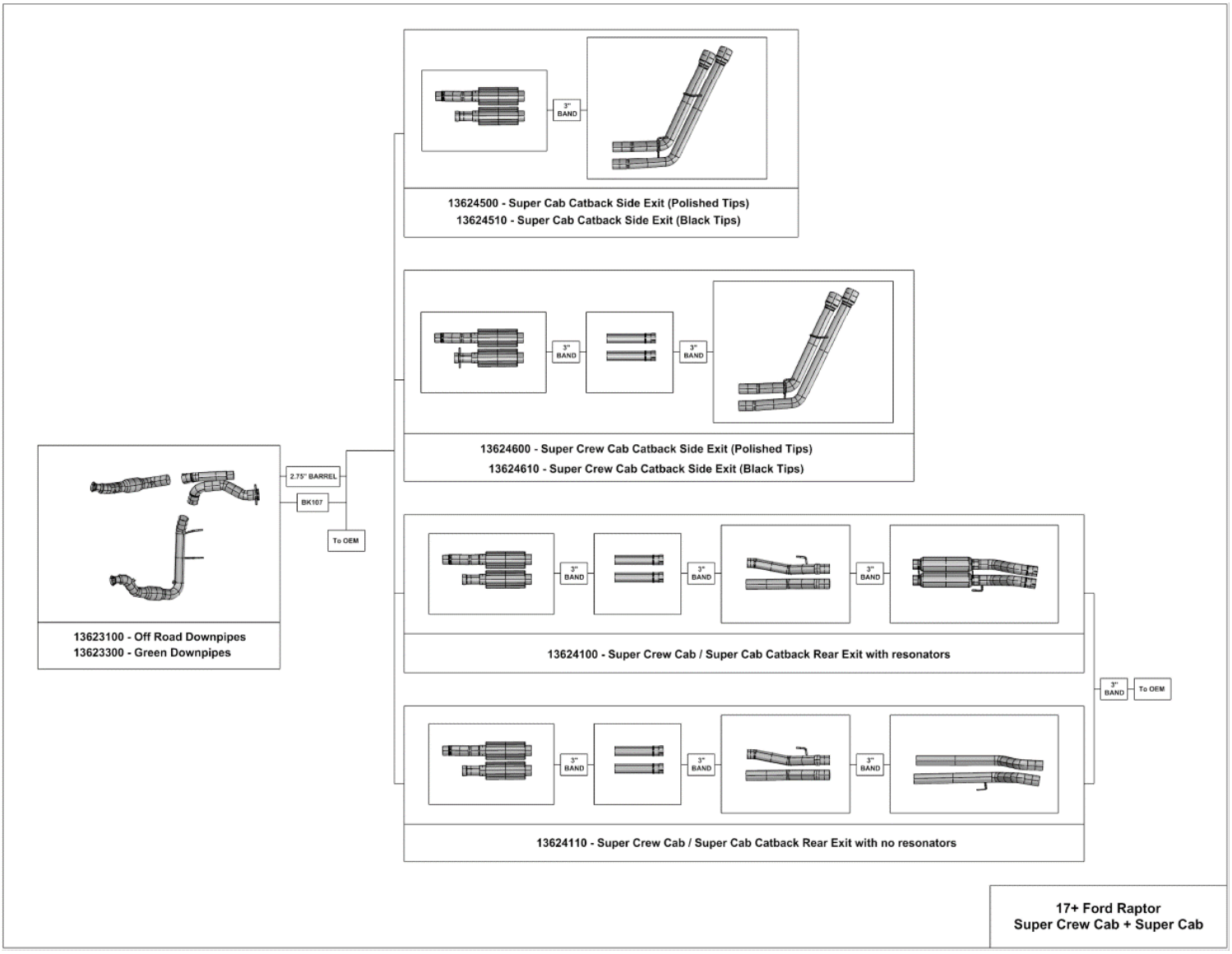
2017+ Ford Raptor
Downpipe and Catback Installation Instructions
Rear Exit and Side Exit

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



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 ($^1/_4$" & $^3/_8$" Drive)
- Metric Socket Set ($^1/_4$" & $^3/_8$" Drive)
- Extensions ($^1/_4$" & $^3/_8$" Drive)
- Pry Bar Set
- O_2 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

Downpipe Removal

The Kooks 17+ Raptor system shares the factory connection points. If you are only installing a catback then skip these steps and look at Catback exhaust removal process.

STEP 1. Label all O2 sensors and remove
STEP 2. Lubricate all hangers and rubber isolators
STEP 3. Remove nuts connecting downpipe to turbos. Keep these because they will be re-used.
STEP 4. Loosen clamp on driver side downpipe
STEP 5. Remove 2 bolts at ball and socket connection. Keep these because they will be re-used if installing downpipes only.
STEP 6. Loosen barrel clamp at rear of passenger side downpipe
STEP 7. Remove drivers side downpipe first, then passenger side.

Catback Removal

STEP 1. Lubricate all hangers and rubber isolators
STEP 2. Remove 2 bolts at ball and socket connection.
STEP 3. Loosen barrel clamp at rear of passenger side downpipe
STEP 4. Loosen barrel clamp on driver side and band clamp on passenger side directly after muffler
STEP 5. Loosen band clamps directly over rear axle
STEP 6. Use muffler stand to support weight of rear muffler
STEP 7. Remove front muffler first, then rear muffler.

KOOKS EXHAUST INSTALLATION PROCESS

Downpipe Install

STEP 1. Loosely install drivers side downpipe. Slide 2 hangers into rubber isolators and align flange with turbo studs. Reuse factory nuts.
STEP 2. Slide connection pipe onto the passenger side downpipe with 3” band clamp. Install both pieces through opening while sliding connection onto driver side downpipe with 3” band clamp. Connect passenger side downpipe to the turbo using factory nuts.
STEP 3. If installing Kooks catback then skip to catback install. Connect rear of downpipes to factory exhaust. Reuse factory studs for ball and socket connection. Use 2.75” barrel clamp for passenger side connection.
STEP 4. Adjust system for clearance. Tighten downpipes at the turbos to factory torque.
STEP 5. Tighten slip connections, barrel clamp connection, and ball and socket connection.
STEP 6. Install O2 sensors with anti-seize on threads. Connect sensor to harness.
STEP 7. Test system for leaks. Allow vehicle to complete one heat cycle (heat to operating temperatures and allow for cooling). Re-torque clamps.

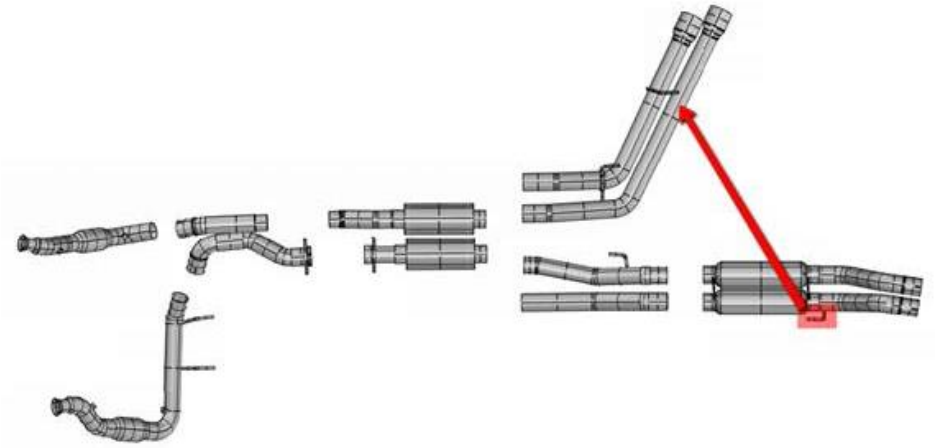
Catback Side Exit Install

STEP 1. Using a muffler stand connect mufflers to downpipe. Use supplied bolts and nuts to connect ball and socket, use barrel clamp to connect passenger side. The inlet of the muffler should have the offset on top.

STEP 2. If you have a Super Crew Cab truck, then you will use the 14.75" long extension pipes. If you have a Super Cab truck these extensions will not be used. Using a 3" band clamp slide extension pipe into mufflers.

STEP 3. Move rubber isolator to correct location-

a. Unbolt rear most rubber hanger and move it to area near the side exit.



b. Hanger will look like this-

STEP 4. Slip side exit exhaust pipe onto extension (or muffler if Super Cab) using 3" band clamps and slide into both hangers.

STEP 5. Adjust system to desired tip location and tighten all band clamps.

STEP 6. Test system for leaks. Allow vehicle to complete one heat cycle (heat to operating temperatures and allow for cooling). Re-torque clamps.

Catback Rear Exit Install

STEP 1. Using a muffler stand connect mufflers to downpipe. Use supplied bolts and nuts to connect ball and socket, use barrel clamp to connect passenger side. The inlet of the muffler should have the offset on top.

STEP 2. If you have a Super Crew Cab truck, then you will use the 14.75" long extension pipes. If you have a Super Cab truck these extensions will not be used. Using a 3" band clamp slide extension pipe into mufflers.

STEP 3. Slide mid pipes (shorter pipes without brackets welded to them) onto extensions using 3" band clamps and slide passenger side into hanger.

STEP 4. Using supplied hardware loosely bolt together rear pipes. Slip rear pipes into mid pipes using 3" band clamps.

STEP 5. Slip rear pipes over factory exhaust using 3" band clamps.

STEP 6. Adjust system for best fitment. Tighten all band clamps and hardware connecting rear pipes together.

STEP 7. Test system for leaks. Allow vehicle to complete one heat cycle (heat to operating temperatures and allow for cooling). Re-torque clamps.

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