

Bronco Raptor H-Pipe

Part No. 90R310, 90R312

King Of The Hill & Extreme H-Pipes



Warranty Information

IMPORTANT – The warranty on this product is VOID if the product is not properly installed, or has been modified or altered in any way. If you believe that modification will be required to fit an MRT Exhaust System on your vehicle, **please contact** MRT for assistance **BEFORE** making any modifications to the system.

Time to Install: 90 Minutes

Tools needed –Socket Wrench Set

Supplied Hardware – 2x 2 ½ Band Clamp

Valve Motion Control Hardware Kit

2x ¼" 20x1 Hex Bolts

2x ¼" Flat Washers

2x 7/16" Spacers

2x ¼"-20 nuts

We recommend disconnecting your battery during the installation process.

Removing the factory muffler:

Step #1 – Locate the mid muffler under your Bronco Raptor. At the outlet of the muffler disconnect the electrical sensor from the exhaust valve mechanisms.



Figure 1 – Stock Muffler



Figure 2 – Exhaust Valve Mechanism Location

Step #2 – Begin to loosen the exhaust inlet connection points at the exhaust flanges. You will also want to remove the exhaust hang point from the inner frame removing the two bolts holding it in place (Pictured Below).



Figure 3 – Exhaust Inlet Flanges

Step #3- Locate and loosen the clamps connecting the mid muffler outlets to the over axle section of the stock exhaust.



Figure 4 – Stock Muffler- Left Outlets – Right Inlets

Step #4- Remove exhaust hangers from the rubber isolators on the vehicle and take the muffler off the vehicle.

Step #5- Once the stock muffler has been removed the valve actuators need to be removed from the muffler. Video of this step can be found here - <https://youtu.be/gjcAOI0YwwQ> at the 2:20 mark.

Step # 6- Install the valves onto the new exhaust system following the steps in the video linked above. Insert the two provided metal disks into the proper locations within the valve motion control plate kit. Once in place the disks should turn freely.



Step #7- Install the original exhaust valve mechanisms onto the valve motion control kit using the provided hardware. Using the provided bolts, feed the bolts through the bottom of the control kit. Once the bolt is protruding from the control kit place the provided nut and washer onto the bolt. The valve mechanisms will go over the bolt. Once in place use the other washer and nut onto the bolt to secure the mechanisms in place. If this step is not followed properly, you can run the risk of receiving a check engine light. It is **HIGHLY RECOMMENDED** to view the installation video above.

Step #8- Begin assembling the H-Pipe placing the passenger side lead tube onto the inlet with clamp loosely placed on the pipe.



Step #9- Begin installing the new exhaust system by placing the exhaust hangers into the rubber isolators. After the exhaust is almost in place, reinstall the driver side inner frame hang point.

Step #10- Once the hang points are in place you can adjust the exhaust to meet both inlet flanges and rear over axle tubing clamp points.

Step #11- Tighten down the bolts at the flanges and the clamps attaching to the over axle tubes.

Step#12- Once the new H-Pipe has been installed reconnect the wiring harness to the exhaust valve modules.

Installation is now complete. It is now time to go for a test drive. We suggest driving for a minimum of 20 minutes to allow the exhaust to expand and contract. After the test drive when

your exhaust has cooled down recheck your clamp and retighten if needed.

If you have any questions about the installation process, please email sales@mrt-direct.com or call 734-455-5807