



Installation Instructions for: **SYSTEM #817529**

1998-09 FORD RANGER V6

3.0L / 4.0L · V6 ENGINE · EXTENDED CAB, SHORT BED

**AMERICAN
THUNDER**

409S Stainless Steel

1) Begin by spraying a penetrating lubricant onto the front flange bolts as well as the rubber hangers that support the factory exhaust system. Then, using a hacksaw or sawzall cut the tailpipe just behind the muffler. Remove the hanger at the rear of the tailpipe from the rubber mount on the vehicle and lower the tailpipe from the vehicle.



2) Using a 15mm socket, loosen the bolts at the front flange connection behind the catalytic converter; keep the hardware to reuse with the Flowmaster system.



3) Support the muffer with a stand and remove the two hangers on the muffer from the rubber mounts on the vehicle. Lower the muffer assembly from the vehicle.



4) Connect the two hangers at the rear of inlet pipe **#16695S** to the rubber mounts on the vehicle and support the front of the pipe with a stand.



5) Using the factory bolts, springs and flag nuts, connect the **#16695S** inlet pipe to the flange behind the catalytic converter. Tighten securely.



6) Place a 2½" band clamp onto the inlet of the muffer and place onto the rear of inlet pipe **#16695S**, support the muffer with a stand. The muffer will be in a vertical position with the inlet at the top. Tighten the clamp enough to hold but still allow for adjustment.



7) Using a ½” socket, loosen the nut on the inside of the frame to remove the factory tailpipe hanger. You will then mount the included #**421HA** frame hanger to the oval hole in the frame. First place a #**HA168** rubber hanger onto the bottom of hanger #**421HA**, then place the hanger assembly into position and place the included 3/8” bolt thru the hanger and frame. Then place the #**HA226** back-up plate followed by the flat washer, lock washer and nut on the inside of the frame and tighten securely into place. Repeat this step with the left frame hanger #**422HA**.



8) Place a provided 2½” clamp onto both of the muffler outlets. From the rear of the axle, place the left tailpipe #**16696S** over the axle and into the lower muffler outlet. Connect the wire hanger at the rear of the pipe to the rubber mount installed in the previous step. Tighten the clamp enough to hold but still allow for adjustment.



9) From the rear of the axle, place the right tailpipe #**16697S** over the axle and into the upper muffler outlet. Connect the wire hanger at the rear of the pipe to the rubber mount installed in step 6 above. Tighten the clamp enough to hold but still allow for adjustment.



10) Place the ST396 stainless tips onto the ends of the tailpipes and adjust to the desired location. Tighten the nut on the clamp to secure the tip in place.

11) Adjust the position of all pipes and muffler to provide a satisfactory fit. Be sure to maintain an adequate clearance around all parts of the system to avoid rattles or damage to heat sensitive components. Once you’re happy with the fit, tighten all connections down securely. For a cleaner appearance and more secure installation, we highly recommend welding all slip-fit connections.

PACKING LIST

<u>Qty</u>	<u>Description</u>	<u>Part#</u>
1	Inlet Pipe Assembly	16695S
1	Muffler Assembly	8525561-Z
1	Left Tailpipe Assembly	16696S
1	Right Tailpipe Assembly	16697S
2	Stainless Tip	ST396
1	Parts Kit	PK586
1	Right Frame Hanger	421HA
1	Left Frame Hanger	422HA
3	2½” Band Clamp	MC250BS
6	7/16” Hanger Keepers	HW502
2	Rubber Mount	HA168
2	Back-up Plate	HA226
2	3/8” x 1” Bolt	HW208
2	3/8” Nut	HW103
2	3/8” Flat Washer	HW303
2	3/8” Lock Washer	HW309



Installation diagram for:

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