



OUTLAW[®]

S E R I E S

ITEM	PART NO.	DESCRIPTION	QTY.
1	86776S	RIGHT INLET PIPE HYBRID	1
2	86775S	LEFT INLET PIPE HYBRID	1
3	15197S-620	OUTLAW MUFFLER	1
4	86741S	RIGHT OVER-AXLE PIPE	1
5	86740S	LEFT OVER-AXLE PIPE	1
6	86743S	RIGHT TAILPIPE	1
7	86742S	LEFT TAILPIPE	1
8	TB932S	EXTENSION PIPE	2
9	86745S	SIDE EXIT PIPE	2
10	86746S	REAR EXIT PIPE	2
11	ST461B	TIP, STAINLESS STEEL	2
12	MC250BS	CLAMP, STAINLESS, 2-1/2"	10
13	HA572	FRAME HANGER	1
14	HW204	BOLT, 5/16-18 x 1"	1
15	HW102	NUT, 5/16-18	1
16	HW302	FLAT WASHER, 5/16" x 1-1/4"	2
17	HW308	LOCK WASHER, 5/16"	1

ATTENTION:

REAR EXIT TAIL PIPE ADAPTORS (10) WILL NOT WORK WITH RETRACTABLE REAR BUMPER STEP OR SOME AFTERMARKET FABRICATED BUMPERS

Installation Instructions

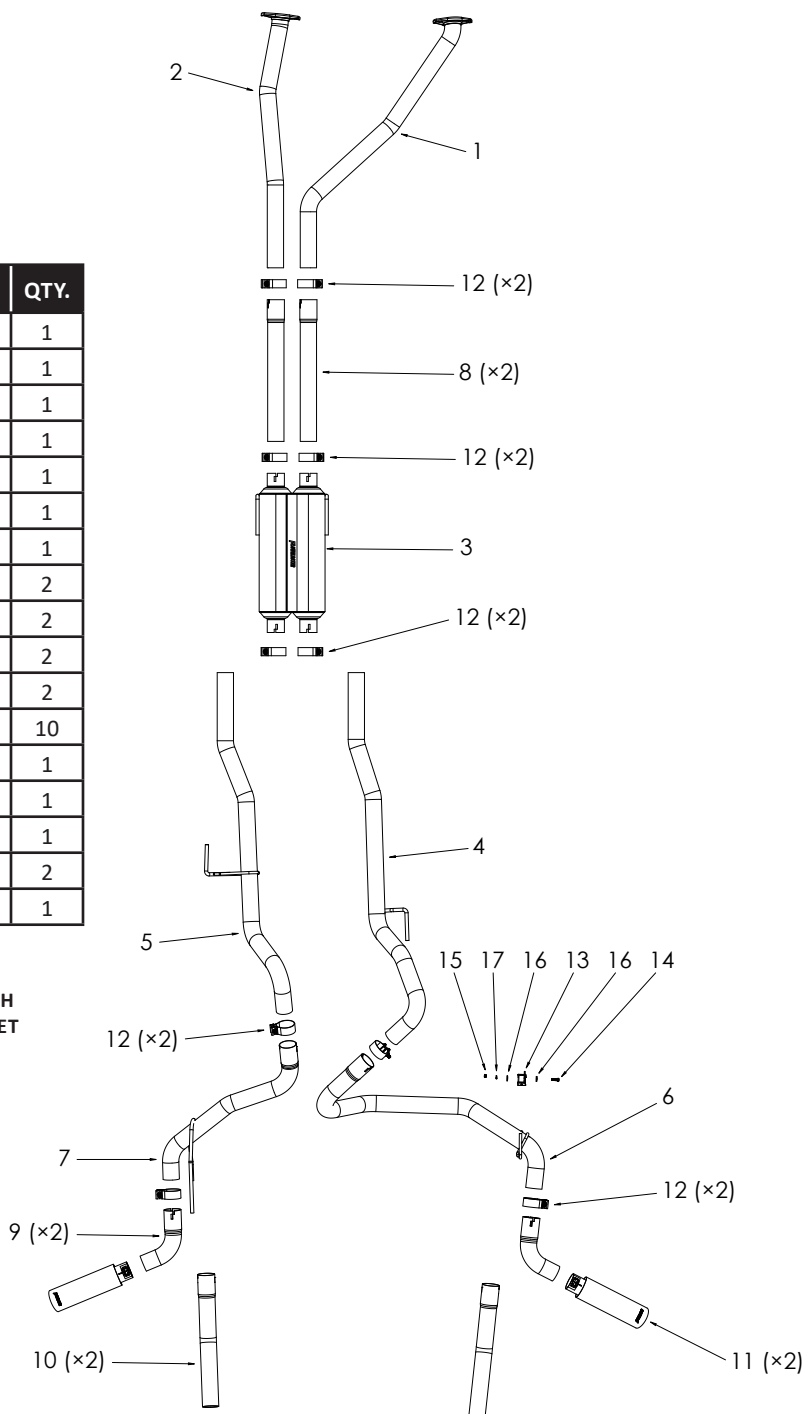
818139

2022-2025 TOYOTA TUNDRA
WITH 3.4L ENGINE

2- or 4-WHEEL DRIVE

145.7 IN., 157.7 IN., and 164.6 IN. WHEELBASE

See "Applications" tab on the product web page for specific applications.



NOTES

- Installation requires moderate mechanical skill. If this job is beyond your abilities, seek the services of a qualified technician.
- If you do not understand any part of these instructions, please call Flowmaster Technical Support at (866) 464-6553 for assistance.
- Apply penetrating oil generously to clamps, fasteners, pipes, and hanger rods for ease of disassembly.

REVIEW THE INSTRUCTIONS & VERIFY THE KIT CONTENTS

Take a moment to read and understand these instructions before installing your Flowmaster American Thunder exhaust kit.

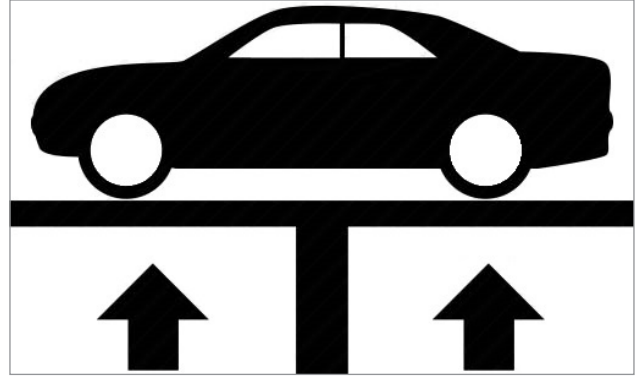
Use the parts drawing and list to verify your kit's contents. In the unlikely event that any parts are missing, please contact Flowmaster Technical Support for replacements.

REMOVE THE FACTORY EXHAUST SYSTEM

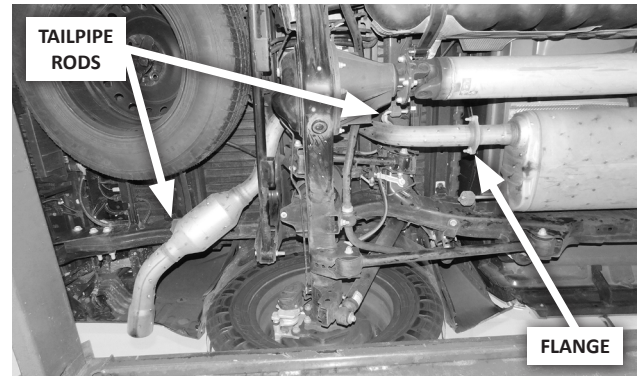
WARNINGS

- **AVOID BURNS!** Exhaust systems get extremely hot. Allow the vehicle to cool down fully before starting work.
- **AVOID SERIOUS INJURY OR DEATH BY CRUSHING!** Never work under a vehicle that is supported by jacks.
- **EXHAUST SYSTEM COMPONENTS ARE HEAVY!** Use jack stands to support them, both when removing the stock system, and when installing your new kit.

1. **Raise the vehicle to working height on a lift.** If you do not



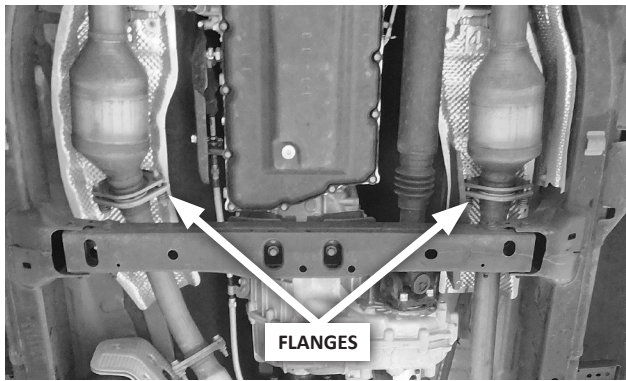
have a lift, securely support the vehicle on jack stands.



2. **Remove 2 nuts at the tailpipe flange.** Disengage tailpipe rods from rubber isolators (2 places).
3. **Lower the spare tire for clearance,** and remove the



tailpipe from the vehicle.



4. Remove and retain 4 screws and springs at the 2 catalytic converter flanges.



5. Disengage muffer rods from rubber isolators (3 places), and remove muffler and pipe assembly from vehicle. Remove and retain 2 flange gaskets. Return the spare tire to its stowed position.

INSTALL YOUR FLOWMASTER EXHAUST SYSTEM



6. Before installing clamps in the following steps, remove their nuts, apply anti-seize compound to the bolt threads, and re-install the nuts.

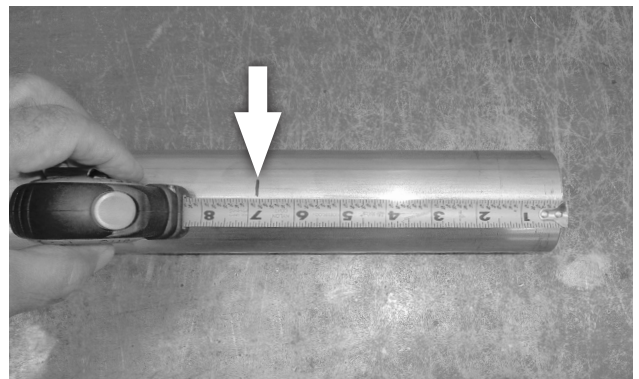
NOTE: All pipe-to-pipe slip-fit connections must seat 3" deep. All pipe-to-muffler connections must seat 2" deep. Mark the male ends of each pipe in advance, to ensure proper insertion during assembly.



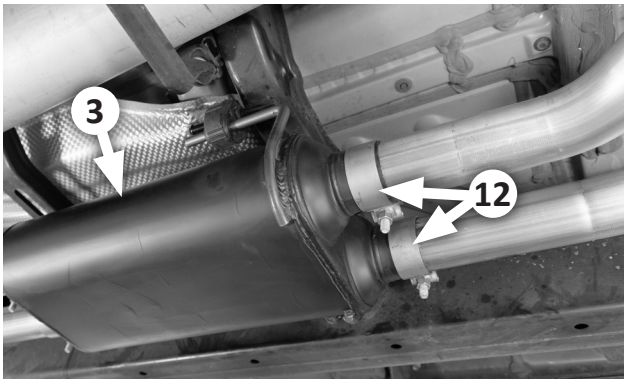
7. Attach left (2) and right (1) inlet pipes to factory exhaust with the 2 stock gaskets, and 4 screws and springs, ensuring that both pipes are oriented properly.

CAB	BED	WHEELBASE	EXTENSION PIPES
Double	8.1 ft	164.6 in	Use as received
CrewMax	6.5 ft	157.7 in	Cut back 6-7/8"
Double	6.5 ft	145.7 in	Not used
CrewMax	5.5 ft		

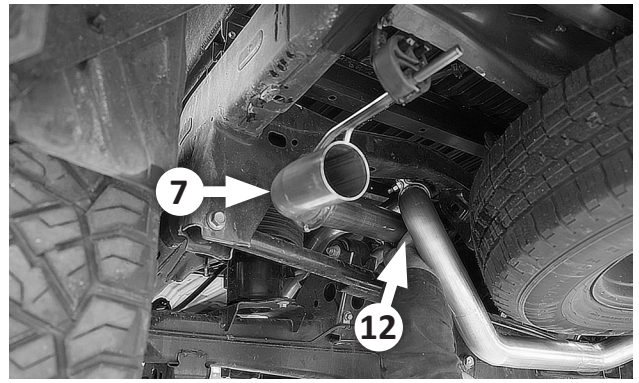
8. Determine if your truck requires the two extension pipes (8). If not, skip to Step 11.



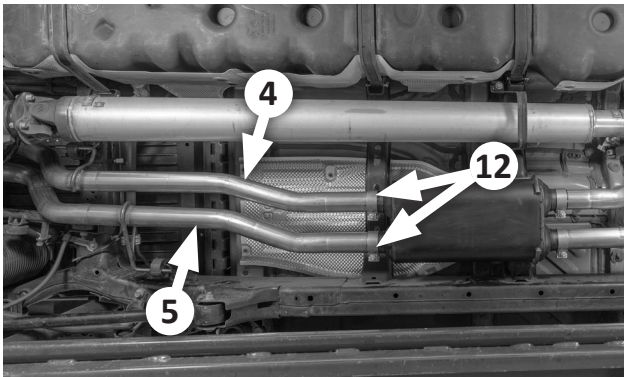
9. If applicable, cut 6-7/8" off the muffler-end of the extension pipes.
10. If applicable, slip a clamp (12) over each extension pipe, and install them on the inlet pipes. Verify 3" of insertion, and snug the clamps slightly (just enough to allow final adjustment later).



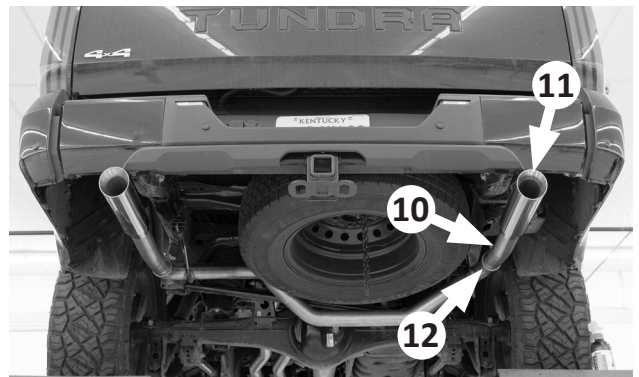
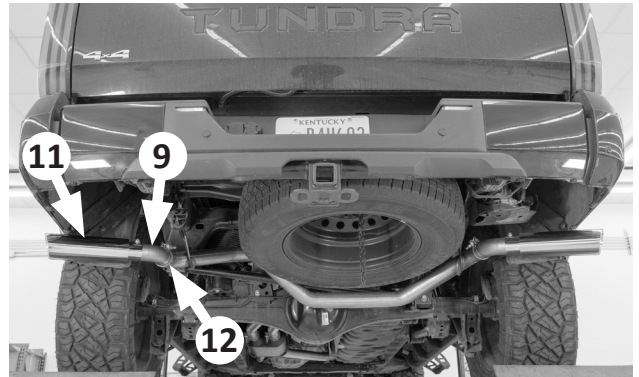
11. Slip two clamps (12) over the muffler's (3) inlets (the end with the hanger rods). Install the hanger rods in the rubber isolators, then install the muffler on the inlet pipes. Verify 2" of insertion, and snug the clamps slightly.



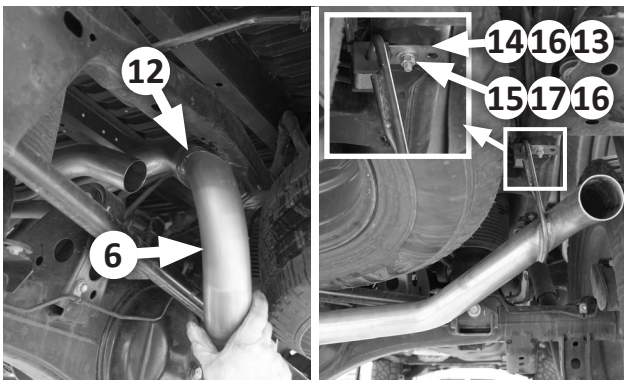
14. Slip a clamp (12) over the left tailpipe (7). Install its hanger rod in the rubber isolator, then slip it over the over-axle pipe. Verify 3" of insertion, and snug the clamp slightly.



12. Slip a clamp (12) over the muffler's left outlet. Move the left over-axle pipe (5) into place, and insert its hanger rod into the rubber isolator. Insert the pipe into the muffler, verify 2" of insertion, and snug the clamp slightly. Repeat the process for the right over-axle pipe (4).



15. Slip a clamp (12) over the end of each side exit (9) or rear exit (10) pipe, and install each exit pipe on its tailpipe. Align each exit pipe as desired, verify 3" of insertion, and snug each clamp slightly. Install a tip (11) on each exit pipe. Align each tip as desired, and tighten its clamp.



13. Slip a clamp (12) over the right over-axle pipe. Install the frame hanger (13) on the right tailpipe (6) hanger rod, with the flat pointing outboard and facing up toward the frame. Slip the tailpipe over the over-axle pipe. Then fasten the bracket to the frame with the bolt (14) and a flat washer (16) against the frame, and the other flat washer (16), lock washer (17), and the nut (15) against the bracket. Verify 3" of insertion, and snug the clamp slightly.

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16. Adjust all components to give 1/2" to 3/4" clearance (about a finger's width) around them, and allowing for suspension travel and vibration. When you are satisfied with the system's clearance and fit, tighten all clamps.
17. Recommended: Tack weld (approx. 1") the slip-fit connections for added security, then paint each weld with a coat of high-temp spray paint to protect against corrosion.



Congratulations, the installation of your Flowmaster American Thunder exhaust system is complete!

KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE

Flowmaster maintains a highly-trained technical service department to answer your technical questions, provide additional product information and offer various recommendations.



FLOWMASTER TECHNICAL SUPPORT: (866) 464-6553