



INSTALLATION INSTRUCTIONS

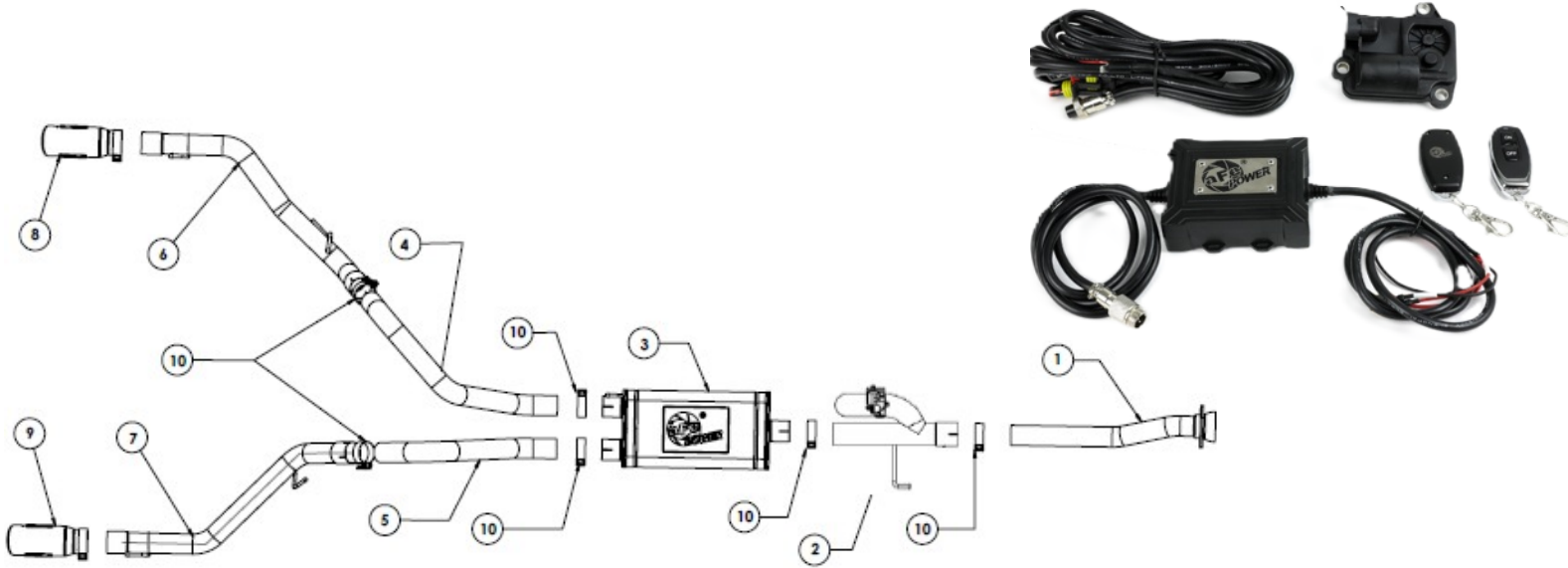
MAKE: Ford
MODEL: F-150 Tremor
YEAR: 2021-2026
ENGINE: V6-3.5L (tt) EcoBoost / V8-5.0L

Gemini XV Cat-Back Exhaust

49-33160 (Black Tips)

49-33160-P (Polished Tips)

CAB: Crew Cab/Short Bed (145.4" WB) with 5-1/2' Bed
NOTE: Fits with factory dual exhaust cut out bumper



Item	Description	Part Number	Quantity
1	Front-Pipe	05-245118	1
2	Mid-Pipe	05-245078	1
3	Muffler Assembly	05-245084	1
4	Over-Axle Driver Side	05-245712	1
5	Over-Axle Passenger Side	05-245713	1
6	Tailpipe, Driver Side	05-245714	1
7	Tailpipe, Passenger Side	05-245715	1
8	EXH Tip 3 In x 4-1/2 Out x 12L Bolt-On Left Blk	49T30452-B12	1
8	EXH Tip 3 In x 4-1/2 Out x 12L Bolt-On Left Pol	49T30452-P12	1
9	EXH Tip 3 In x 4-1/2 Out x 12L Bolt-On Right Blk	49T30451-B12	1
9	EXH Tip 3 In x 4-1/2 Out x 12L Bolt-On Right Pol	49T30451-P12	1
10	Clamp, Band: 3"	05-41055	6
11	Motor, Exhaust Valve: 12 Volt Controller,	05-70042	1
12	Exhaust Valve: Normal	05-70041	1
13	Ties, Nylon Cable: 12" in. Black	05-60167	15

aFe POWER recommends professional installation on this product. Thoroughly inspect the aFe POWER exhaust system to make sure there is no damage from shipping (if damage is noted, immediately contact aFe POWER customer service). Allow time for your vehicle to cool down prior to installation. When working on your vehicle proceed with caution. Wear protective safety equipment; eye goggles and gloves to ensure a safe installation.

Install band clamps to proper torque specifications of 40-45 ft-lb.



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Gemini XV Cat-Back Exhaust

MAKE: Ford

49-33160-B

MODEL: F-150

49-33160-P

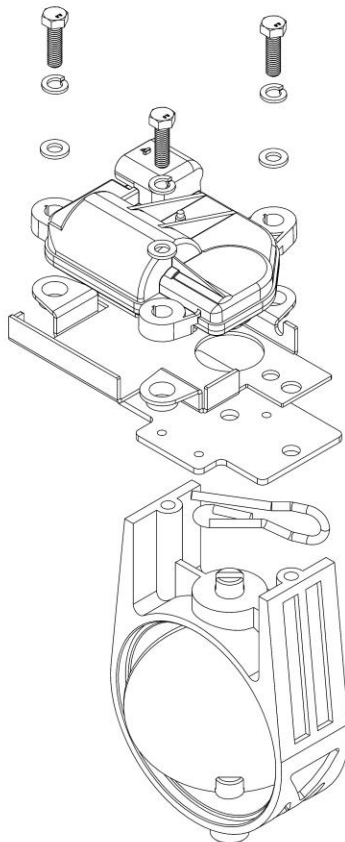
YEAR: 2021-2026

ENGINE: V6-3.5L (tt) EcoBoost/V8-5.0L

CAB: Crew Cab/Short Bed (145.4" WB) with 5-1/2' Bed

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1. **(Read instructions prior to installation.)** It is recommended to not fully tighten the exhaust until it has been fully installed. Leave loose for adjustability.
2. Some exhaust hangers may need to be unbolted.
3. Secure vehicle on jack stands (refer to your manual for specified jack stand positions).
4. For faster installation, spread out the parts of the exhaust alongside your vehicle as shown in the diagram above.
5. Secure the factory exhaust with jack/stands.
6. Remove the factory exhaust. Take caution not to damage the factory front flange, bolts, and isolation mounts.
7. Install the provided (x1) Motor to the valve motor mount using the provided (x3) bolts and spring clip.
8. **Refer to FIG 1 Below**



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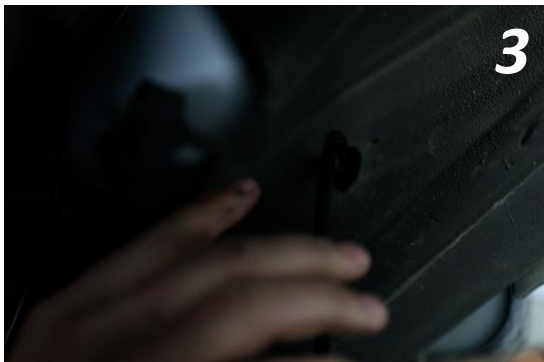
49-33160-B
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1. Insert and install the Front-Pipe Assembly using the factory flange bolts, then secure with provided 3" (in.) Band Clamp. Do not fully tighten.
2. Install Exhaust Motor Valve Assembly and slide hanger onto factory rubber mount isolator, then secure with provided 3" (in.) Band Clamp. Do not fully tighten.
3. Slide the rear hanger of the Muffler Assembly into the factory isolation mount first. Push all the way back until you have the clearance to slide the Muffler Assembly in place.
4. Install both Over-Axle Pipes (Driver & Passenger side), then secure with provided 3" (in.) band clamps. Do not tighten.
5. Install the Right Passenger Side Tailpipe first, then secure with provided 3" (in.) band clamp. Do not fully tighten.
6. Install the Left Driver Side Tailpipe, then secure with provided 3" (in.) band clamp. Do not fully tighten.
7. Install both exhaust tips onto the tailpipes and adjust the tips to your desired position. Do not fully tighten.
8. Position the entire exhaust, tailpipes, and tips. Start fully tightening all clamps from the front flange, working your way to the rear tailpipes. **Note: You may need an extra person to help support, align, and hold pipes in place while you bolt on this exhaust system.**
9. If needed, zip ties are included with your kit to create addition clearance for the Left Driver Side Tailpipe axle breather & brake hoses.

Note: You will need at least 1.5" (in.) of clearance from your spare tire and the left side of the exhaust. If you need addition clearance loosen your spare tire and move it away from the exhaust until you have the required clearance, then tighten spare tire back up.

10. Connect the wire harness to the motor on the exhaust cutout assembly. Run the remaining wire harness inside the frame towards the engine compartment and exit behind the front passenger tire as shown in **FIG 3 & FIG 4** Secure using the provided zip ties.





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11. In the engine compartment, zip tie the control box along the wire harness next to the battery. Run the wire ring terminals to the battery and run the rest of the wire down the back of the firewall to meet the rest of the wire harness. Use provided zip ties to secure the wire. **Refer to FIG 5 and FIG 6**



12. Connect the wire harness together and tuck the remaining wire into the frame. Organize any other loose wire and secure with remaining zip ties.
13. Ensure that all the components of the aFe POWER exhaust system are aligned and are at a safe clearance from all wires, hoses, brake lines, body parts, and tires.
14. Start from the front of the aFe POWER exhaust system and evenly tighten all clamps and fasteners.
15. Start the vehicle and check for any leaks. If any leaks are found, determine cause and repair as necessary.
16. Remove vehicle from jack stands.
17. It is recommended to re-tighten all clamps and hardware after 50-100 miles.