

FLOWMASTER™

AMERICAN THUNDER™ SYSTEM #17342

**2001-2006 CHEVROLET SUBURBAN/GMC YUKON XL
½ TON - 5.3L ENGINE (DOES NOT FIT Z71 MODELS)
Also fits: 2002-2006 CHEVROLET AVALANCHE (D.O.S.)**

12/07/05

Removal:

1. Raise the vehicle and support securely with stands.
2. Support the muffler with a stand and using a hacksaw or sawsall, cut the stock exhaust system just in front of the muffler. Then separate the two wire hangers on the tailpipe from their rubber mounts on the vehicle and carefully lower the muffler and tailpipe from the vehicle.
3. Using a 15mm wrench, remove the two nuts at the flanged connection just behind the catalytic converter. Separate the wire hanger from the rubber mount in front of the muffler and carefully lower the inlet pipe and set aside.

Installation:

1. Place inlet pipe/resonator assembly #15125 in position behind the flange that is welded to the back of the catalytic converter. Connect the wire hanger to its rubber mount, and re-install the factory nuts on the flange connection. Do not fully tighten to allow for adjustment.
2. Connect the inlet of muffler #530312 to the rear of resonator assembly #15125. Use a stand to support the muffler. Install the provided 3" clamps to this connection and tighten enough to hold in place but still allow for adjustment.
3. Slide tailpipe #16403 over the rear axle and into the right side muffler outlet. Connect the wire hanger to the rubber mount and install a 2½" clamp onto the muffler outlet, tighten enough to hold but still allow for adjustment.
4. Take frame hanger #247HA and bolt it to the frame on the drivers side towards the rear of the vehicle, just past the shock and stabilizer arm. It is an oval hole towards the top of the frame that goes through both sides of the frame. Slide the 3/8"x4" bolt through the 247HA hanger then through the frame from the outside to the inside. On inside of frame secure hanger with spacer plate #HA226, 3/8" flat washer, 3/8" lock washer and 3/8" nut all provided in parts kit, make sure the hanger is pointing out and that it is straight up and down, tighten down securely. Then place rubber mount #HA168 onto the end of the hanger rod.

5. Place left front section of tailpipe #16500 into the left side muffler outlet and slide hanger rod into the rubber mount. Then take rear section of tailpipe, #16406, and maneuver it up above the rear end and slide the slip-fit end over the back of front section #16500. Rotate pipe and slide the hanger rod into the bottom hole of the rubber mount previously installed. Then place a 2½” clamp onto the slip-fitted end of pipe. Tighten enough to hold in place, but allow for adjustment.
6. Take the two stainless tips, #ST339 and slide them on over the ends of the tailpipe’s. Tighten the hose clamps enough to hold, but allow for adjustment.
7. Adjust the position of all pipes and muffler to provide a satisfactory fit. **A minimum 3/4" of clearance** around all parts of the system should be maintained; while also keeping suspension travel and vibration in mind.
8. Tighten all clamped connections down securely. For a "cleaner" installation, the connections can be welded and the clamps removed. After the system is secure, slide the hanger keepers onto the end of the hangers welded to the resonator assembly and tailpipes. These keepers will prevent the hangers from slipping out of the rubber mounts.

PACKING LIST FOR KIT #17342

<u>Qty</u>	<u>Description</u>	<u>Part#</u>
1	Resonator Assembly	15125
1	Muffler	530312
1	Right Tailpipe	16403
1	Left. T.P. Front Sec	16500
1	Left T.P. Rear Sec.	16406
2	Stainless Tips	ST339
1	Parts Kit	PK407
1	Muffler Clamp	MC300G
3	Muffler Clamp	MC250S
1	Frame Hanger	247HA
1	Rubber Mount	HA168
1	Spacer Plate	HA226
1	3/8"x4" Bolt	HW220
1	3/8" Flat Washer	HW303
1	3/8" Lock Washer	HW309
1	3/8" Nut	HW103
1	½”Hanger Keepers	HW503
4	7/16" Hanger Keepers	HW502
1	8-½” Nylon Cable Tie	HW504

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5.3L, V8. 1/2 TON ONLY (DOES NOT FIT Z71 MODELS)
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