

## **Exhaust Cat-Back 2009-2013 GM 1500**

(117030020, 117030030, 117033030)

### ***Installation Guide***





## **DISCLAIMER OF LIABILITY**

Performance products can increase horsepower above and beyond factory specifications. Additional horsepower creates more stress on the drive-train components, which could result in drive-train failure.

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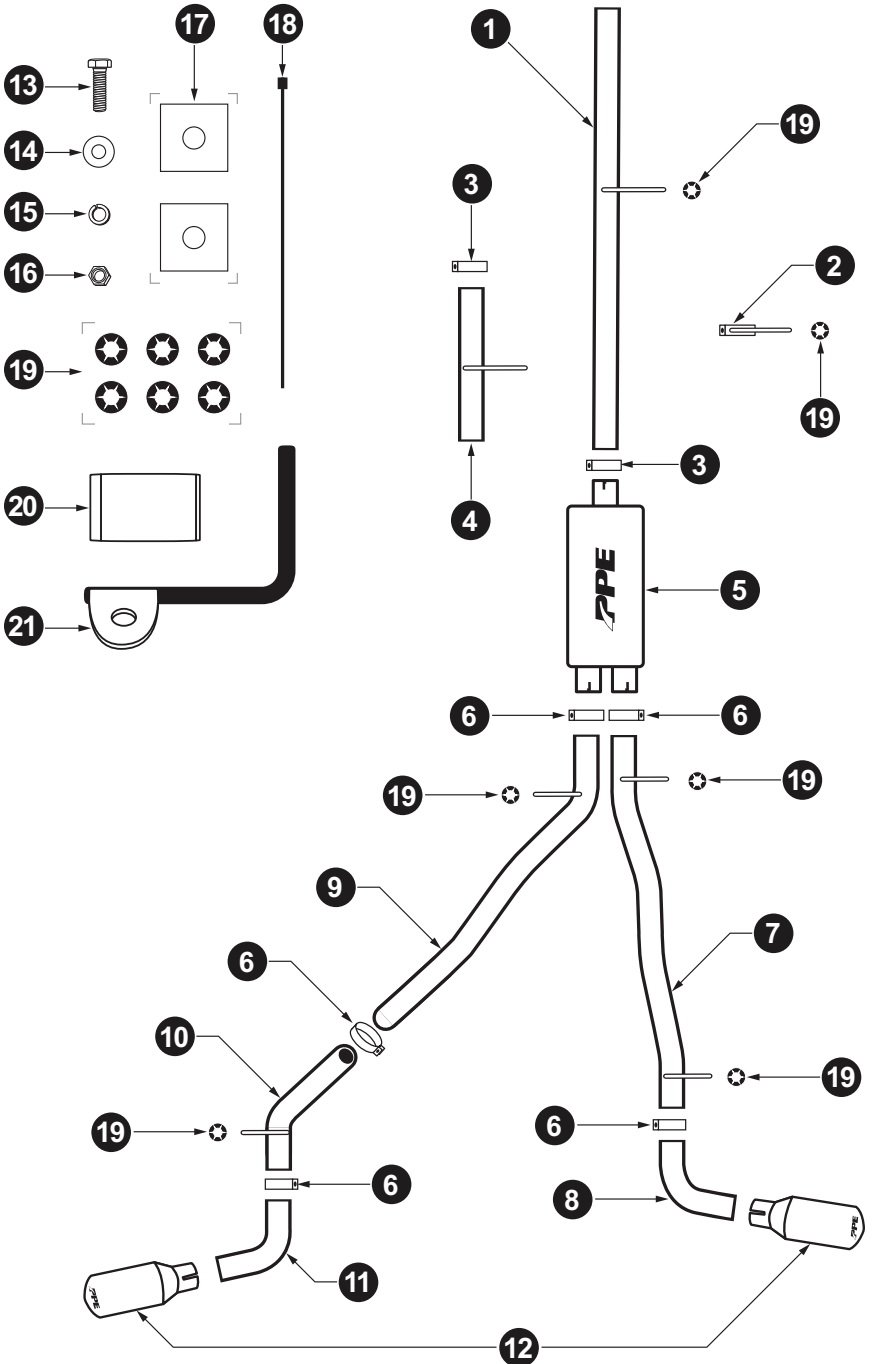
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- 1 *Inlet Pipe*
- 2 *3.0" Stainless Steel Hanger Clamp (1)*
- 3 *3.0" Stainless Steel Clamps (2)*
- 4 *Extension*
- 5 *Muffler*
- 6 *2.5" Stainless Steel Clamps (5)*
- 7 *Passenger Side Front Tailpipe*
- 8 *Passenger Side Exit Pipe*
- 9 *Driver Side Front Tailpipe*
- 10 *Driver Side Rear Tailpipe*
- 11 *Driver Side Exit Pipe*
- 12 *Exhaust Tips (2)*
- 13 *3/8" - 16 x 1.25" Bolt*
- 14 *3/8" Flat Washer*
- 15 *3/8" Lock Washer*
- 16 *3/8" - 16 Z Nut*
- 17 *Backing Plates (2)*
- 18 *Zip Tie*
- 19 *Lock Washers (6)*
- 20 *Rubber Hanger*
- 21 *Left Frame Hanger*



## REMOVAL

- Step 1** Vehicle off. Raise vehicle on hoist or rack.
- Step 2** Apply penetrating lubricant to the stock rubber hanger mounts and clamp flange bolts, for easier removal.
- Step 3** Cut tailpipe just behind stock muffler outlet. Disconnect hangers from rubber isolators and remove cut tailpipe section.
- Step 4** Remove ball clamp. Set ball clamp aside for later installation. Disconnect hangers from rubber isolators. Remove muffler section. It is recommended to have help removing stock exhaust.

## PREPARATION

- Step 1.** Remove nuts from each of the PPE Stainless Steel Clamps (2, 3, 6). Apply anti-seize to each bolt. Reassemble Clamps.
- Step 2** Refer to chart below for the proper assembly combination that relates to your specific vehicle.

WHEEL BASE	BODY STYLE	BED LENGTH	ASSEMBLY
143 1/2"	Extended Cab	6'5"	Don't install extension
143 1/2"	Crew Cab	5'5"	Don't install extension
157 1/2"	Extended Cab	8'	Install extension

**NOTE:** Every slip-fit connection in this kit must seat 3" deep. Mark related components accordingly so your PPE exhaust system fits properly onto your vehicle.

## INSTALLATION

- Step 1** Place ball clamp (removed step 4) onto inlet pipe (1), then connect it to catalytic converter. Insert hanger into rubber isolator. Tighten clamp to secure but leave loose for now.

**NOTE:** Some early 2009 models, the rubber hanger mount is welded further rearward on frame. In this case, install 3.0" Stainless Steel Hanger Clamp (2) onto inlet pipe. tighten, then insert hanger into rubber isolator.

- Step 2** Place 3.0" Stainless Steel Clamp (3) on muffler (5) inlet then connect muffler to inlet/extension pipe (1 / 4). Place 2, 2.5" Stainless Steel Clamps (6) onto muffler outlets. Tighten clamps to secure but leave loose for now.



- Step 3** *Fasten Left Frame Hanger (21) to vehicle using bolt (13), Backing Plates (17), 3/8" Flat Washer (14), Lock Washer (15) and 3/8" - 16 Z Nut (16). Then hang Rubber Hanger (20) on Frame Hanger (21) end.*
- Step 4** *Route Passenger Side Front Tailpipe (7) over rear axle then connect to muffler outlet. Insert hangers into rubber isolators then tighten 2.5" Stainless Steel Clamp (6). Tighten clamp to secure but leave loose for now.*
- Step 5** *Route Driver Side Front Tailpipe (9) over rear axle then connect to muffler outlet. Insert hanger into rubber isolator then tighten 2.5" Stainless Steel Clamp (6). Tighten clamp to secure but leave loose for now.*
- Step 6** *Fit 2.5" Stainless Steel Clamp (6) over Passenger Side Front Tailpipe (7) Tighten to secure but leave loose for now.*
- Step 7** *Fit 2.5" Stainless Steel Clamp (6) over end of Driver Side Front Tailpipe (10) and install on to Driver Side Front Tailpipe (9). Insert hanger into rubber isolator then tighten 2.5" Stainless Steel Clamp (6). Tighten clamp to secure but leave loose for now.*
- Step 8** *Fit 2.5" Stainless Steel Clamps (6) over ends of Passenger Side Front Tailpipe (7) and Driver Side Rear Tailpipe (10). Install Passenger Side Exit Pipe (8) and Driver Side Exit Pipe (11). Tighten clamps to secure but leave loose for now.*
- Step 11** *Adjust the position of each exhaust component to completely clear other vehicle components and ensure suspension travel will not contact any part of the exhaust.*
- Step 12** *Tighten all exhaust components beginning with the Inlet Pipe (1) and working your way towards the Driver and Passenger Side Exit Pipes (8, 11). Adjust for clearance as needed.*
- Step 13** *Install Exhaust Tips (12) on Driver and Passenger Side Exit Pipes (8, 11). Adjust placement to ensure they don't contact any other vehicle components. Tighten to secure.*
- Step 14** *Install the Hanger Locks (19) on hangers as indicated.*

*Installation complete.*



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