



With proper installation, your new Billy Boat Exhaust system will last a lifetime. While installation of this product is very simple and straight forward, there are a couple areas that need some attention.

#1- Secure vehicle to wheel lift.

#2- With the car safely lifted and chocked, remove the 22 bolts securing the aluminum plate that covers the X-pipe and set the plate aside.

#3- To loosen the rear fascia remove the six bolts located on the bottom rear of the vehicle. Then remove the two bolts located in the window that the tips reside in. Pull gently on the center (place both hands on opposite sides of the tip window) of the rear fascia until the clips release.

#4- Unbolt the flanges located at the front of the factory center pipe. Then remove the bolts that hold the rubber hanger mount located at the rear of the center pipes. Loosen clamps on rear of center pipe. Pull center pipe back off the donuts at the front of the exhaust system. Lower center pipe down and pull forward off the front of the mufflers and set aside.

#5- Disconnect actuator wires from actuators. (Depending on the model of the car there are either 2 or 4 actuators. Non-NPP systems have 2.) Loosen and remove bolts that hold the muffler cans together. To remove the mufflers, unbolt the rubber hangers from car then pull the hangers through the rubber mounts and lower the mufflers down and unwrap from over the axle. You may have to move the mufflers to one side or the other to get them out. (When removing the mufflers, have another person pull gently on the rear fascia to provide enough space to pull the mufflers out.)

#6- Remove stock actuators from stock system and secure to your new Billy Boat system along with rubber hangers from stock system. (Loctite is advised but not required to secure the bolts in actuators to ensure a secure fit.)

#7- Position the new muffler/axle hoop system into place. Then insert the mounting hook into the factory rubber hanger. Mate the muffler/axle hoop system to the center pipe (Billy Boat X-Pipe if used) in the reverse order of removal and just tighten them enough to still allow for movement while aligning the system. \*But do not tighten them completely.

#8- With all components in place, align the tips and once you have achieved the alignment tighten the bolts that hold the cans together. Keeping in mind that it will take some time to align them correctly.

#9- Then start by secure the bolts that hold the X-pipe then tighten the flanges in front of the system first and then the nuts, bolts and clamps connecting the muffler sections making sure everything is still in alignment.

#10- After the system has been correctly aligned, locate the rear fascia back into the clips and replace all of the bolts that were removed then re-secure the aluminum plate that covers the X-pipe.

#11- Fire the car up and take it for a spin around the block making sure there are no rattles.

#12- After logging on a few hundred miles re-torque your work.

Tools needed for installation:

Jack/Jack Stands, 17mm & 18mm Socket or Wrench, 15mm Socket and Wrench, 13mm Socket and Extension

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#### Billy Boat Exhaust Safety

**SAFETY:** Appropriate disassembly, assembly methods and procedures are essential to ensure the personal safety of the individual performing the kit installation. Improper installation due to the failure to correctly follow these instructions could cause personal injury or death. Read each step of the installation manual carefully before starting the installation.

- Always wear safety glasses for eye protection.
- Place the ignition switch in the OFF position.
- Always apply the parking brake when working on the vehicle.
- Block the front and rear tire surfaces to prevent unexpected vehicle movement.
- Operate the engine only in well-ventilated areas to avoid exposure to carbon monoxide.
- Do not smoke or use flammable items near or around the fuel system.
- Use chemicals and cleaners only in well-ventilated areas.
- Batteries can produce explosive hydrogen gas which can cause personal injury. Do not allow flames, sparks or flammable sources to come near the battery.
- Keep hands and any other objects away from the radiator fan blades.
- Keep yourself and your clothing away from moving parts when the engine is running.
- Do not wear loose clothing or jewelry that can be caught in rotating or moving parts.

**VEHICLE SUPPORT WARNING:** Should the purchaser decide to install this exhaust product at home, be warned that car or light duty truck/van "bumper" jacks are intended for emergency use only. The use of frame contact jack stands in conjunction with a floor jack as main support is highly recommended to minimize accidental dropping of a vehicle while the installation proceeds. We recommend the use of a shop hoist if possible. Please use caution!