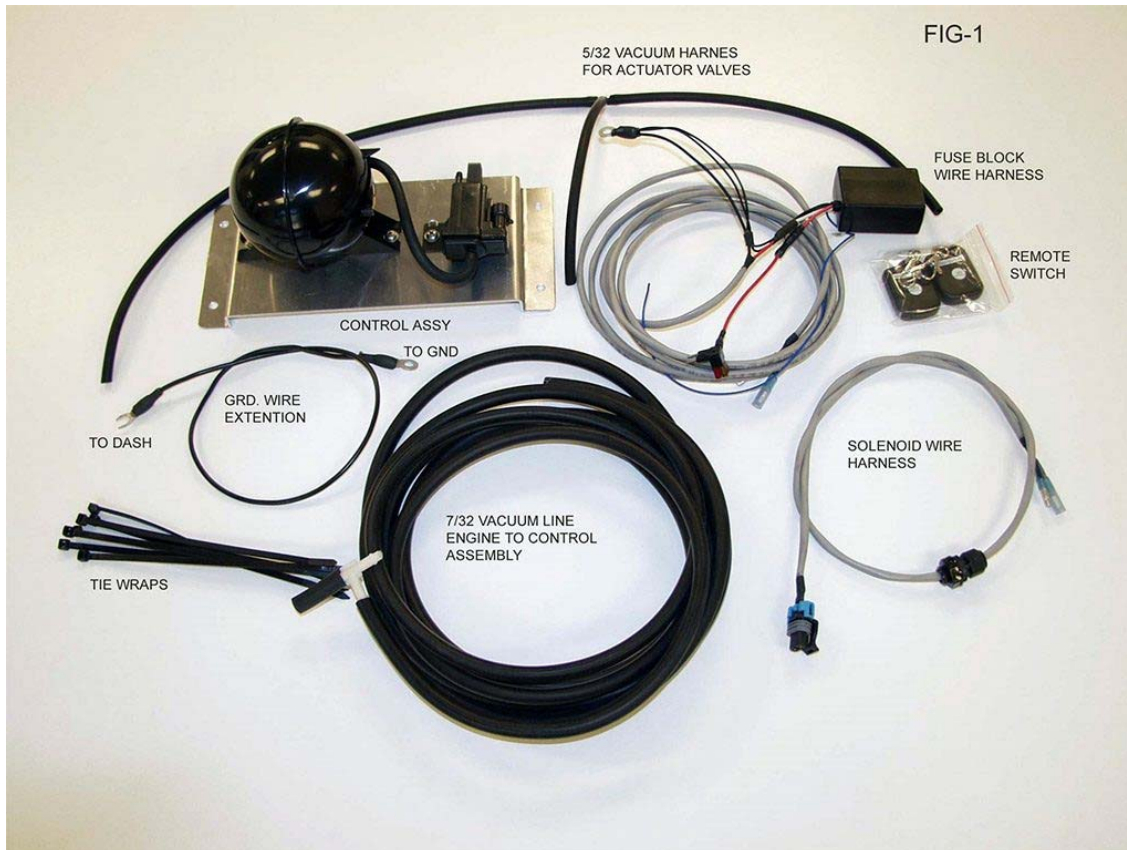


With proper installation your new Billy Boat Exhaust system will last a lifetime. While installation of this product is very simple and straight forward, there are a couple areas that need some attention.

1. Make sure vehicle is secured to a wheel lift and negative battery cable is disconnected. The complete Fusion control kit is shown in Figure 1. Before proceeding open kit and inspect all components.



2. With the hood opened, locate the vacuum ports on the rear of the intake manifold under the electrical connector as seen in the mirror in (Figure 2A), Note. It may be necessary to use a small mirror to see this .....



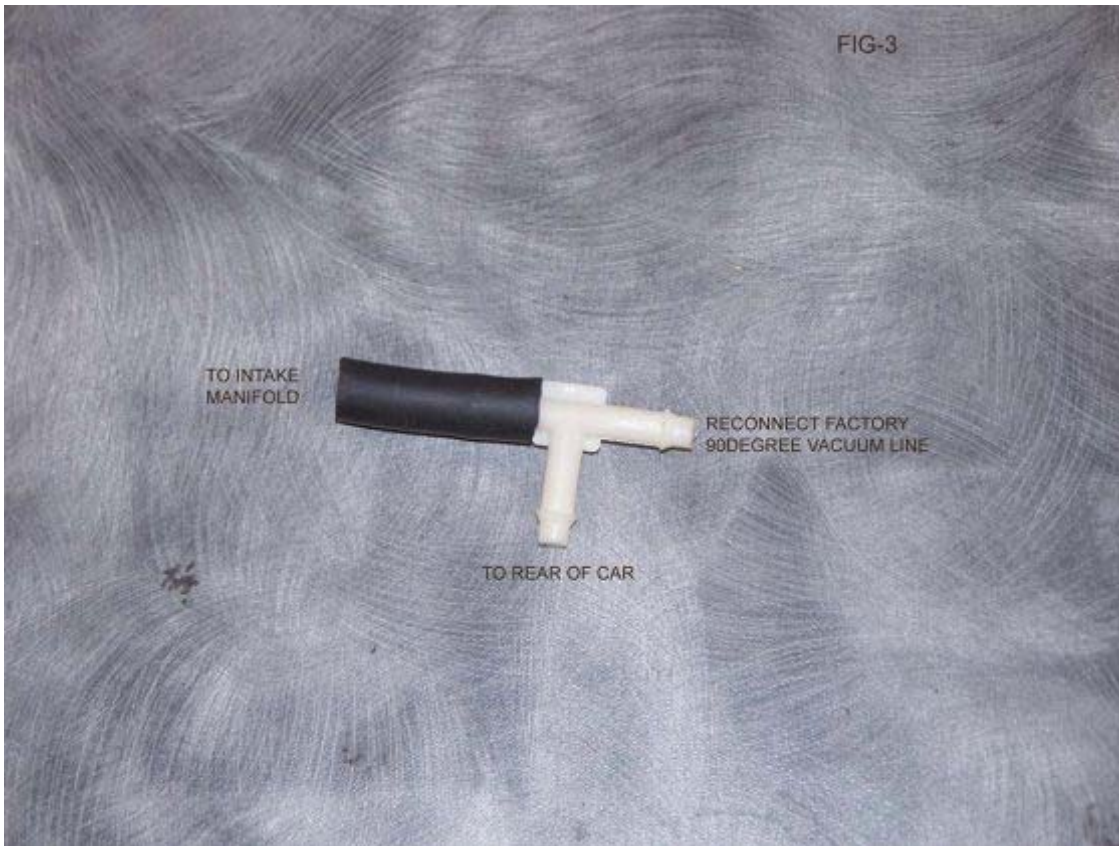


The large port pointing towards the driver side is for the brake booster and should not be altered. Under the electrical connector pointing towards the passenger side there is a smaller port with a vacuum line connected to it (Figure 2B).



Carefully remove the 90-degree vacuum fitting from the port. Take the supplied vacuum tee with the small piece of vacuum

line (Figure 3) and connect it to the port on the intake manifold (note. One of the two remaining ports should be pointing towards the pass side of the car and the other one downwards).



Next reconnect the 90-degree vacuum line you removed earlier to the side of the tee pointing towards the pass side of the car. Take the long 7/32 vacuum line supplied and connect to remaining port on the tee pointing downward and run the vacuum hose down between the firewall and the rear of the engine.

3. Raise vehicle and locate vacuum hose and route thru the center tunnel under the automobile, (Note: Using some type of a steel wire such as a coat hanger may make this easier to run thru the tunnel). After exiting the tunnel run the vacuum line up over the rear end following the parking brake cable (Figure 4) towards the center of the rear of car. Using the supplied zip ties secure the vacuum line behind the engine and to the parking brake line at the rear of the car as needed and let remaining line hang for now.



4. Lower the vehicle to begin the installation of the Fusion control assembly. Open passenger side door and remove floor mat. Pull down on passenger side floorboard to access fuse block. Locate fuse position #22 (Figure 5A) and insert fuse adapter into fuse block (Figure 5B).



FIG-5B

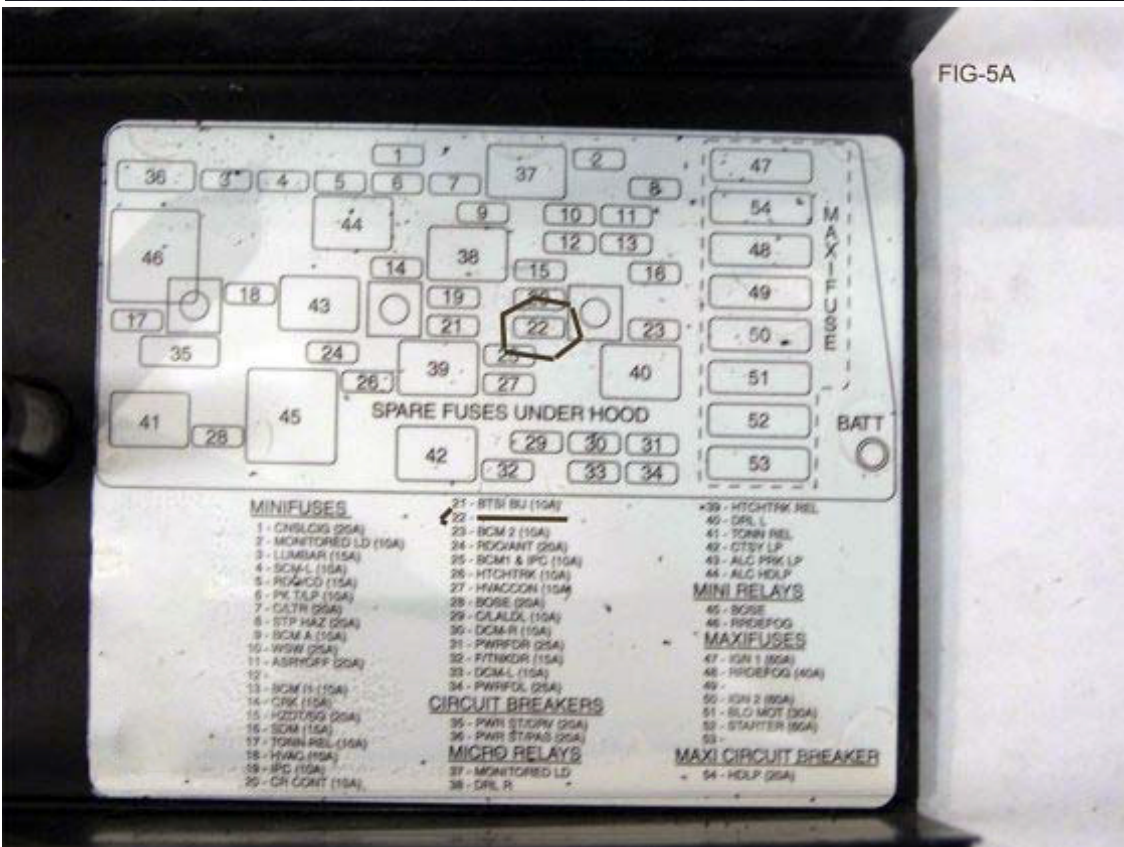


FIG-5A

5. Tuck Fusion control relay under fuse block as shown (Figure 5B). Locate the stud to the bottom right of the fuse block (Figure 5B) and install short ground wire from relay and the solid eyelet on ground wire extension wire (Figure 6) to stud, install and tighten supplied nut.



Route ground extension wire behind right side kick panel up towards the bottom of the dash, loosen bolt shown (Figure 7) and install open end connector and tighten.



Route the blue antenna wire towards the top of the fuse block. Make sure all wires are tucked away, fold back floorboard and re-install mat.

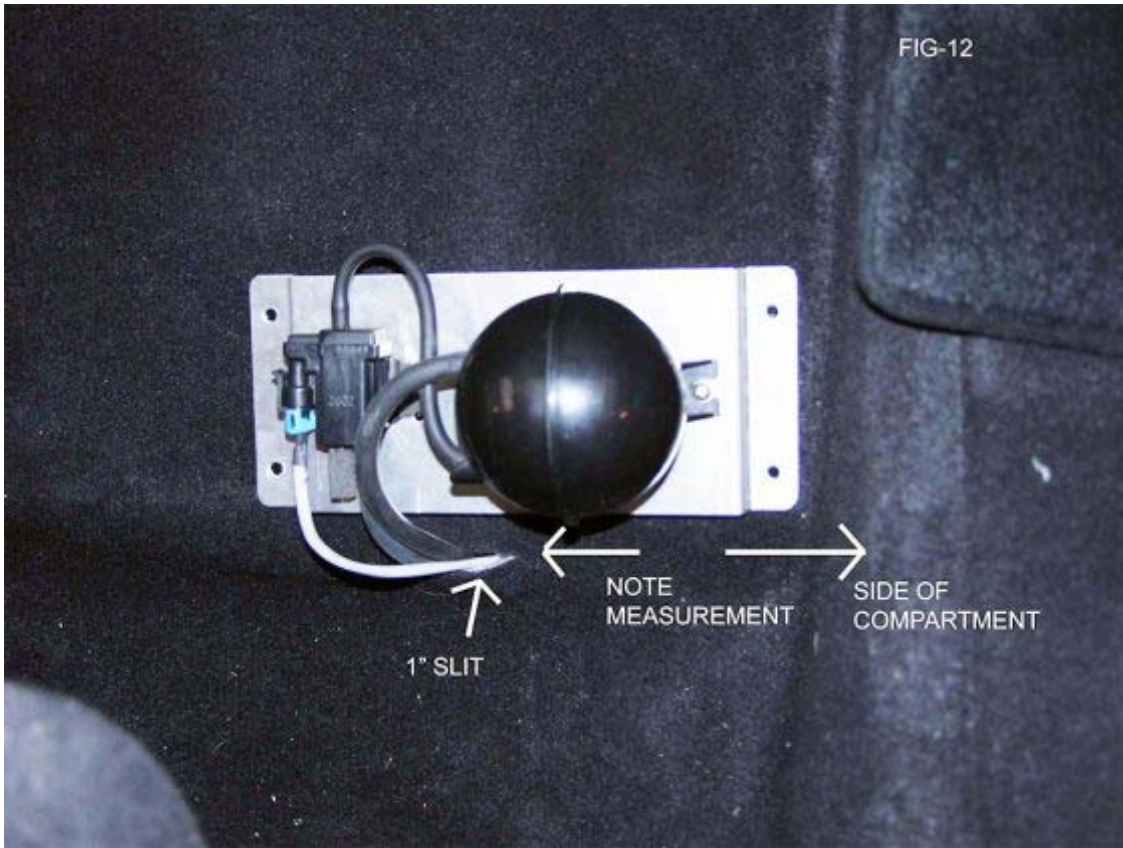
6. Take remaining wire loom and start routing it towards the rear of the car on the passenger side tucking it under the interior trim working towards the rear. Continue tucking wires under interior trim into right rear corner of the car (Figure 8, 9, 10, 11). Open trunk and remove the board covering the center cargo compartment. Continue running wire harness around pass side rear corner of car and towards the center of car.







7. Take the Fusion control assembly with the vacuum solenoid and accumulator and locate it in the cargo area positioning it towards the pass side (Figure 11). Once positioned press firmly on the outside edges of mounting plate securing the Velcro to the carpeting. Take a measurement from the passenger side of the cargo compartment to the center of the Fusion control assembly plate (Figure 12) and note measurement. Do not make slit in carpet at this time.



8. Raise car measure from passenger side of cargo compartment towards the center of the car and make a mark on the vertical part of the compartment above sway bar (Figure 13 Drill one 7/32 hole and one 5/32 hole as shown (Figure 13) being careful not to drill carpeting on inside of cargo compartment.

Next take a small punch or pick and poke a hole thru carpeting.



9. Take the 5/32 vacuum harness for the valves and route the long vacuum hose to the drivers side muffler vacuum diaphragm and the medium length hose to the passenger side muffler diaphragm housing and connect. Make sure that these hoses are routed over the exhaust. Take the short 5/32 hose coming off tee and the 7/32 hose coming from the engine and insert accordingly into the two holes drilled in the cargo compartment.

10. Lower car and locate two holes punched thru carpet. Using a razor blade or knife make a 1" slit in the carpeting (Figure 14) and pull both vacuum hoses thru slit. Plug the 7/32 vacuum line onto the vacuum reservoir and the smaller 5/32 hose onto the solenoid (Figure 14).



11.Route wire harness from solenoid thru slit in carpet (Figure 14) routing the wire harness under the carpet towards passenger side of car and connect the two wires to the harness coming from the fuse block. Reinstall carpet and cargo cover board.

12.Raise car one final time and make sure all vacuum lines are tucked up out of the way from the exhaust system or anything that may cause damage and tie off as needed. Once you are sure all lines are secured your installation is complete and you can lower the vehicle.

#### Fusion Exhaust switch operation.

Now that your install is complete you are ready to test the system. When starting the car, the exhaust valves will normally be open. With the engine running press the “on” button and the valves will close. Press the “off” button and the valves will again open unleashing the beast within.

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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!