



AEROMOTIVE
Part # 11805
5/8" Pickup & 1/2" Return
INSTALLATION INSTRUCTIONS

CAUTION:

Installation of this product requires detailed knowledge of automotive systems and repair procedures. We recommend that this installation be carried out by a qualified automotive technician.

Installation of this product requires handling of diesel. Ensure you are working in a well ventilated area with an approved fire extinguisher nearby. Extinguish all open flames, prohibit smoking and eliminate all sources of ignition in the area of the vehicle before proceeding with the installation.

When installing this product, wear eye goggles and other safety apparel as needed to protect yourself from debris and sprayed diesel.

Aeromotive system components are not legal for sale or use on emission controlled motor vehicles.

This kit contains the following parts:

1 ea 3/4" Pickup Tube
1 ea Bottom Plate Baffle
1 ea Intank Return Assembly

1 ea Basket
1 ea Foam Core
1 ea Boxed, Pickup Tube Assembly

WARNING!



Always be aware of flammable situations. Drilling and grinding can be potential ignition sources. Extinguish all open flames, prohibit smoking and eliminate all sources of ignition in the area of the vehicle and workspace before proceeding with the installation. Ensure you are working in a well ventilated area with an approved fire extinguisher nearby.

WARNING!



Installation of this product requires modification to a fuel tank, failure to satisfy all safety considerations will result in fire, explosion, injury and/or loss of life to yourself and/or others.

WARNING!



Mechanical and hydraulic lifting devices can tip over or lower accidentally due to incorrect maneuvering or technical errors. A falling object can cause injury and/or loss of life to yourself and/or others. When working under the vehicle always use stands and ensure that the ground or floor is stable and level. Never crawl under a vehicle which is only supported by a jack.

CAUTION:



Make sure all batteries are disconnected before starting installation. Most diesel truck have two 12v batteries.

1. Before removing the fuel tank from the vehicle, mark the tank where there is adequate room between it and the bed. These locations will be used to determine the best spot for the feed and return tubes. Remove the fuel tank from the vehicle and place it on the ground. Remove the factory fuel level sending unit and set aside (careful not to damage it and note the orientation of the float arm). Choose a location that's close to the factory tank opening because you have to reach the backside to install a nut. Before drilling your holes make sure the factory fuel level arm will not come in contact with the Aeromotive baffled pickup assembly (**Location marks are examples only**). Failure to do so will result in the gas gauge not working. **FIGURE 1-1**

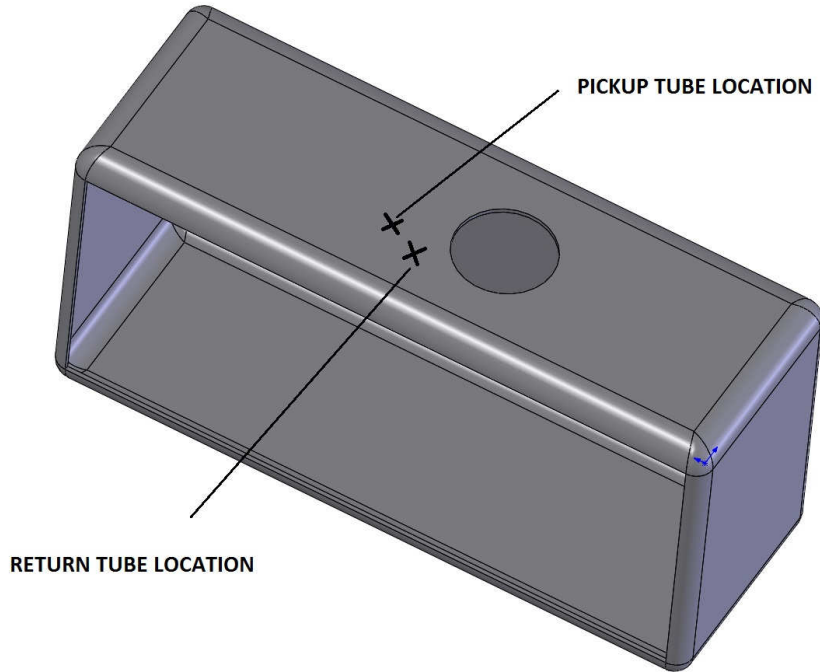


FIGURE 1-1

2. Find a spot on the tank suitable for the pickup tube assembly. Make sure you have enough room for the 100 micron pre-filter and baffle assembly inside the tank (tank wall clearance and factory basket clearance). Drill a 1" hole for the pickup tube assembly (clean out all debris after drilling hole).
3. Measure the depth of the tank through the hole you just drilled. Add 1" to the measurement and cut the pickup tube.

FIGURE 1-2

NOTE: The tube will be longer than needed and is a built in cushion. You can shorten the pickup tube to better fit your vehicle.

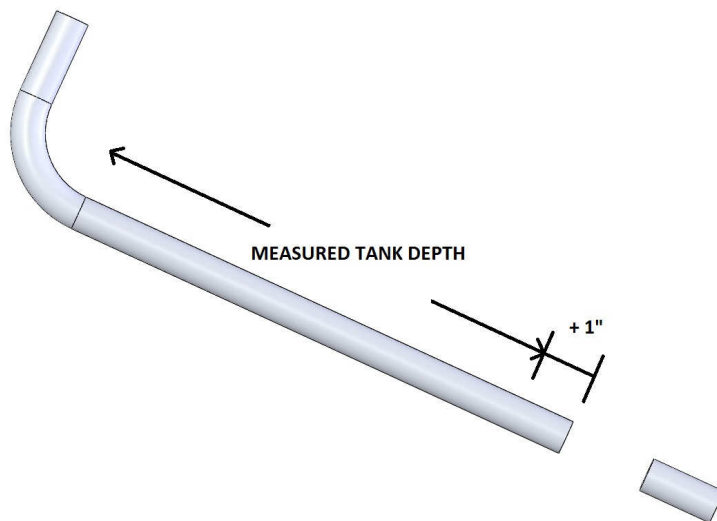


FIGURE 1-2

4. Insert the pickup tube assembly as illustrated in **FIGURE 1-3**. Place one PTFE washer, lock nut and filter assembly into tank using the factory fuel module (**do not tighten anything yet**). Lightly oil the pickup tube and insert it thru the pickup tube clamp. There will be some resistance because of the two sealing o-rings. Lube the end of the tube and push it into the filter assembly and tighten the filter clamp (tube can be tilted toward the factory open to aid in assembly). Now tighten the pickup tube clamp lock nut.

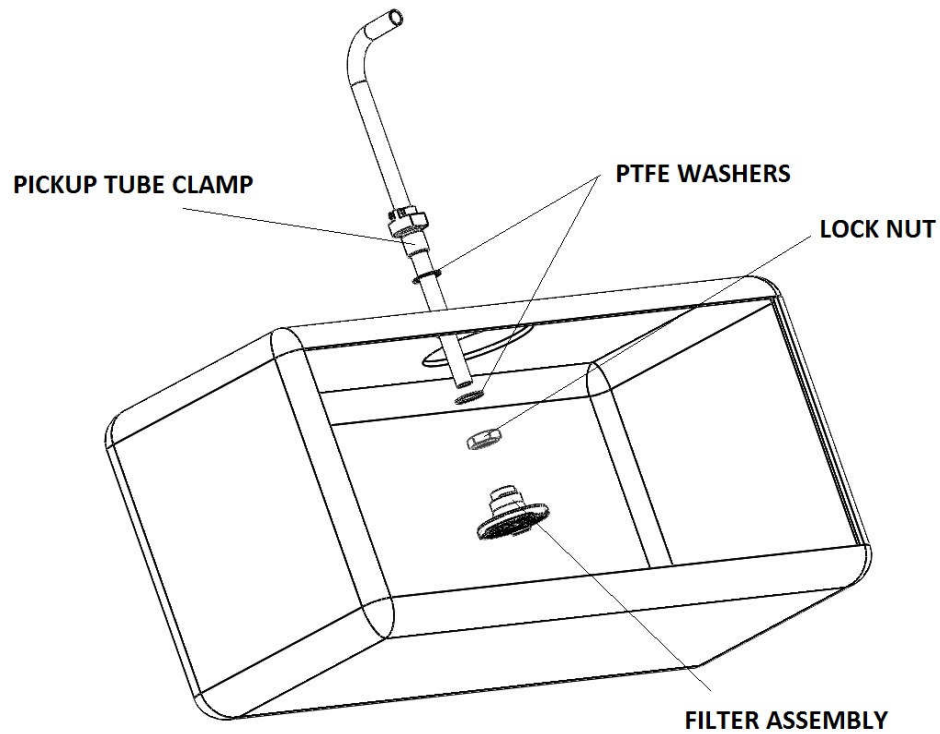


FIGURE 1-3

5. Assemble the baffled pickup assembly and insert it into the tank. **FIGURE 1-4**

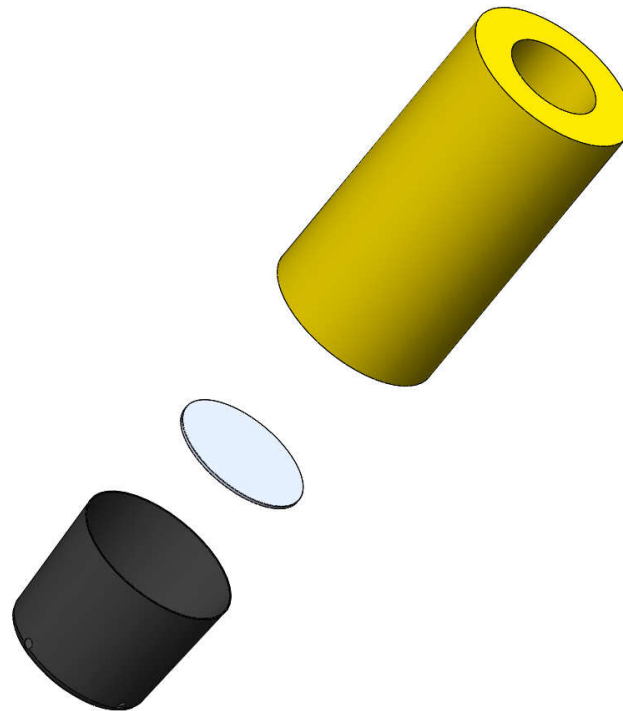


FIGURE 1-4

Note: The round bottom plate can be trimmed to fit down in the tank or cut in half and assembled in the tank.

6. Push the pickup tube assembly down into the baffle until the filter rest on the bottom plate. Position the outlet toward the middle of the vehicle and tighten the tube clamp on top of tank. **FIGURE 1-5**

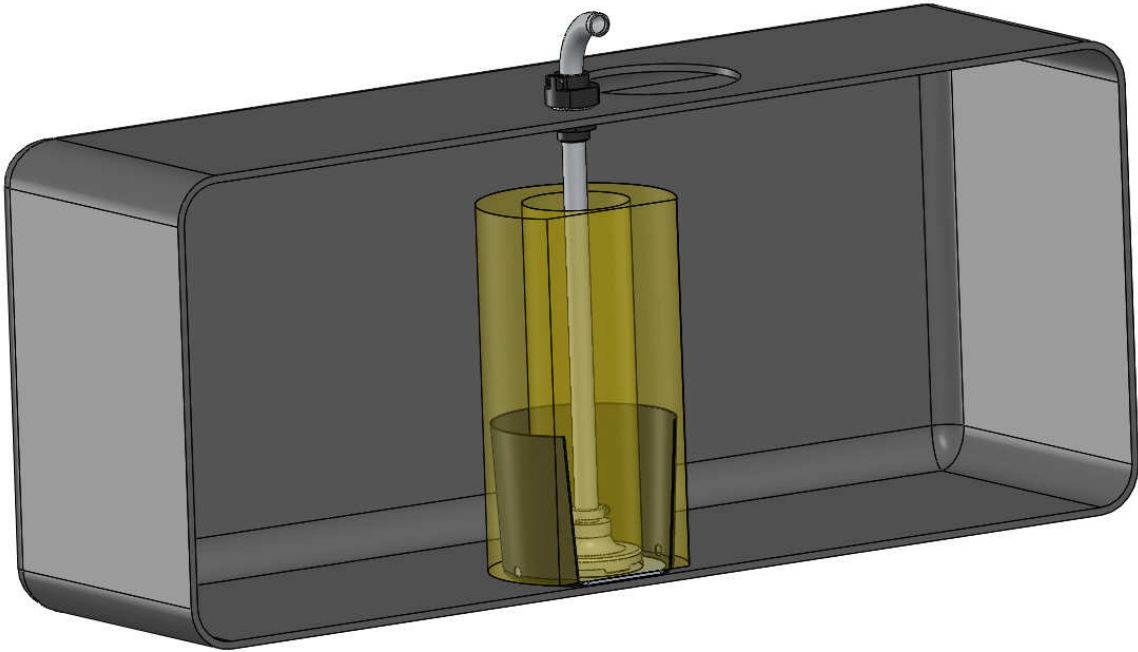


FIGURE 1-5

7. Attach the 5/8" J2044 connector onto the pickup tube. Use light oil to ease the installation, tighten clamp. **FIGURE 1-6**

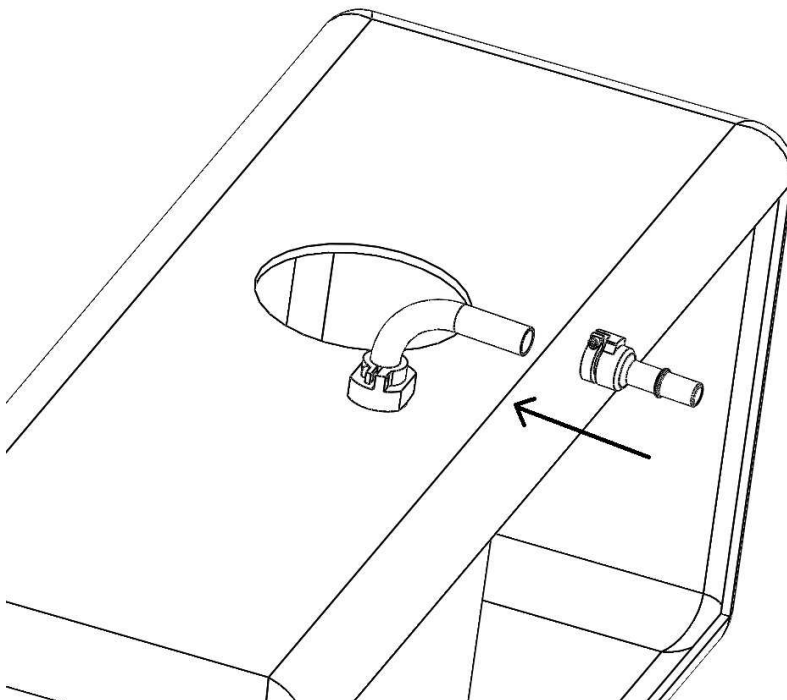


FIGURE 1-6

- Find a location on the tank approximately 2.5-3" away from the pickup tube. Mark this spot and drill a $\frac{3}{4}$ " hole for the return tube assembly.
- Measure from the top of the hole you just drilled to half way down the black Aeromotive basket. Cut the return tube assembly to length. Insert it into the tank as shown in **FIGURE 1-7**

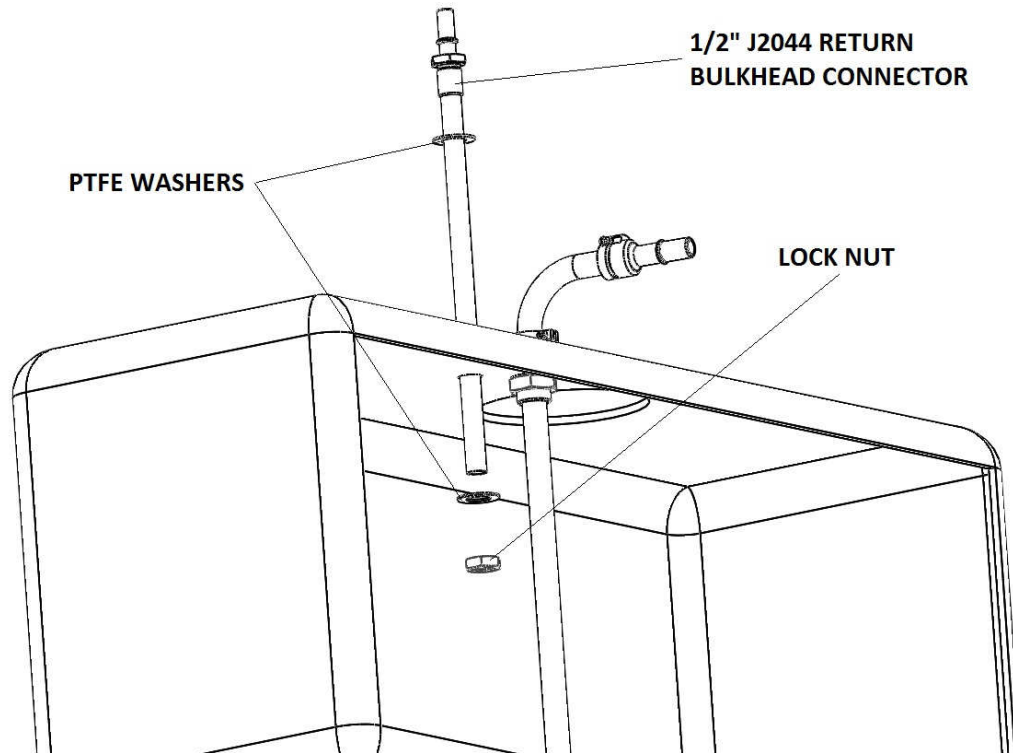


FIGURE 1-7

- As you are inserting the return tube into the tank, guide the tube in between the black rubber basket and yellow foam. Once installed, tighten lock nut inside of tank. **FIGURE 1-8**

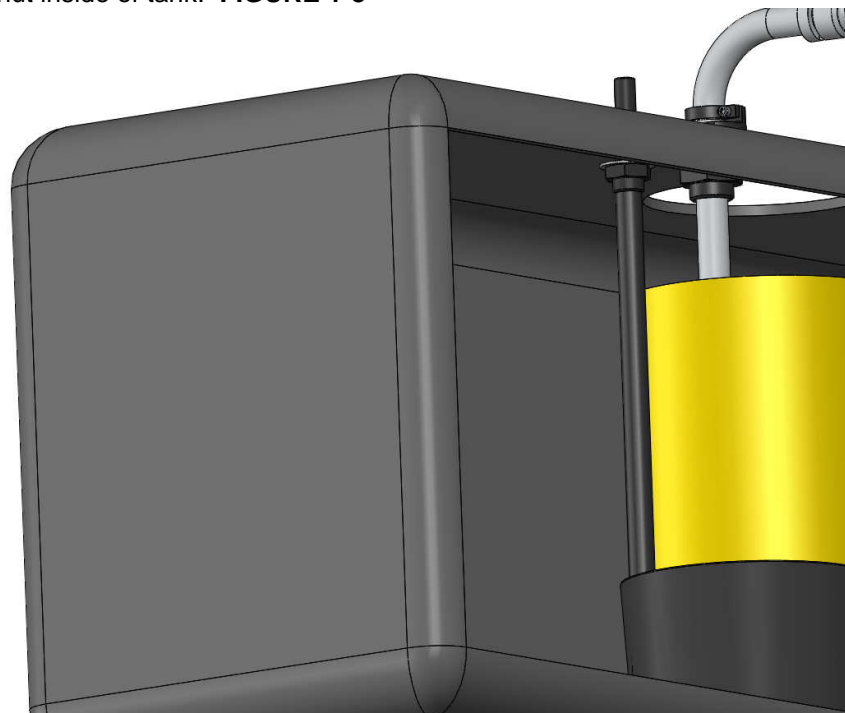


FIGURE 1-8

11. Reinstall the factory pickup assembly noting the position of the fuel level as it was removed. Position the tank under the vehicle and attach the feed and return lines. Place rubber cap over factory feed line connection and secure with tie wrap. Raise tank and position it into place. **FIGURE 1-9**

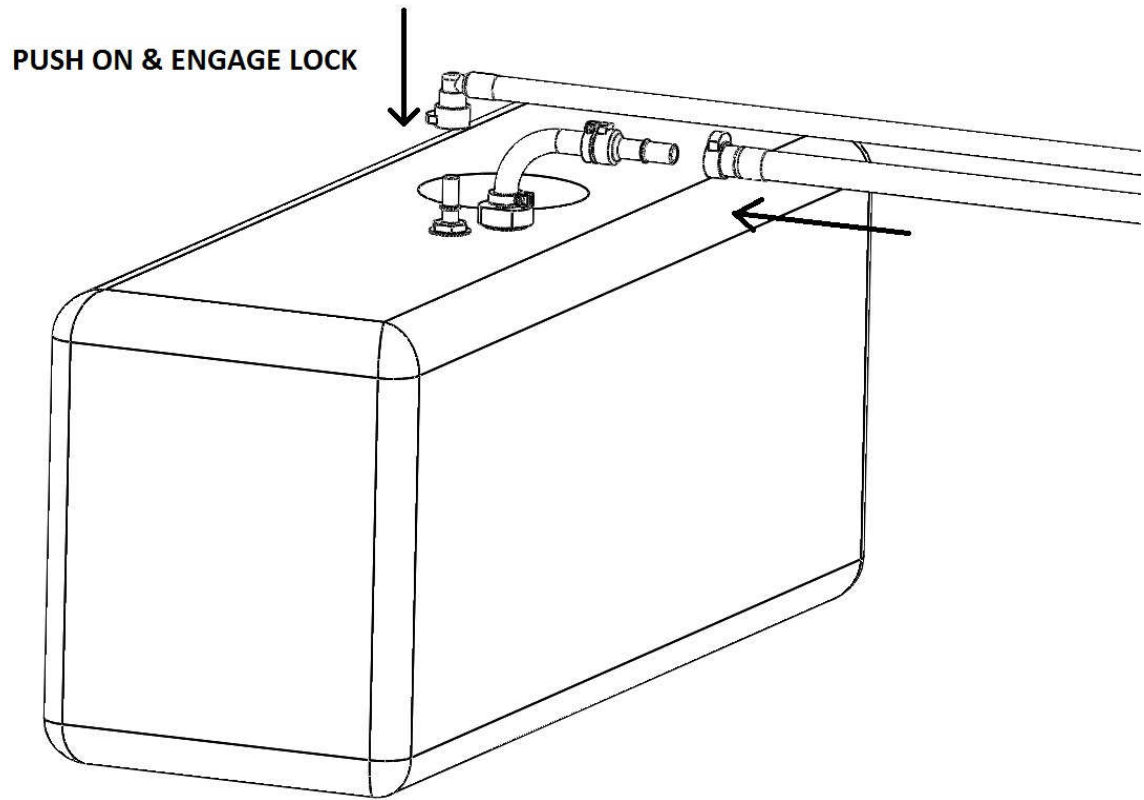


FIGURE 1-9

12. Route line away from moving parts and hot exhaust and secure in place.
13. Start the vehicle and verify all connections are leak free.

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If a defect is suspected, the retail purchaser must contact Aeromotive directly to discuss the problem, possible solutions and obtain a Return Goods Authorization (RGA), if deemed necessary by the company. Please call 913-647-7300 and dial option 3 for the technical service dept. All returns must be shipped freight pre-paid to the company and with valid RGA before they will be processed.

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