



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

This product is not legal for sale or use on emission-controlled vehicles except when used as a direct replacement part matching OEM specification.

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!



etc.

Installation of this product requires modification to a fuel tank/ the fuel system, failure to satisfy all safety considerations will result in fire, explosion, injury and/or loss of life to yourself and/or others. All fuel system components **MUST** be located as far from heat sources as possible, like exhaust, engine block,

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.

WARNING!



The fuel system is under pressure. Do not open the fuel system until the pressure has been relieved. Refer to the appropriate vehicle service manual for the procedure and precautions for relieving the fuel system pressure.

CAUTION!



When installing this product always wear safety glasses and other appropriate safety apparel. A drilling operation will cause flying metal chips. Flying metal chips can cause eye injury.

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. Careless installation of this product can result in damage to the product, injury or loss of life to yourself and/or others.

Compatible Fuels:

Pump Gas
Race Gas
E85
Alcohol/Ethanol

Parts Included:

1 ea ¾" 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

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**

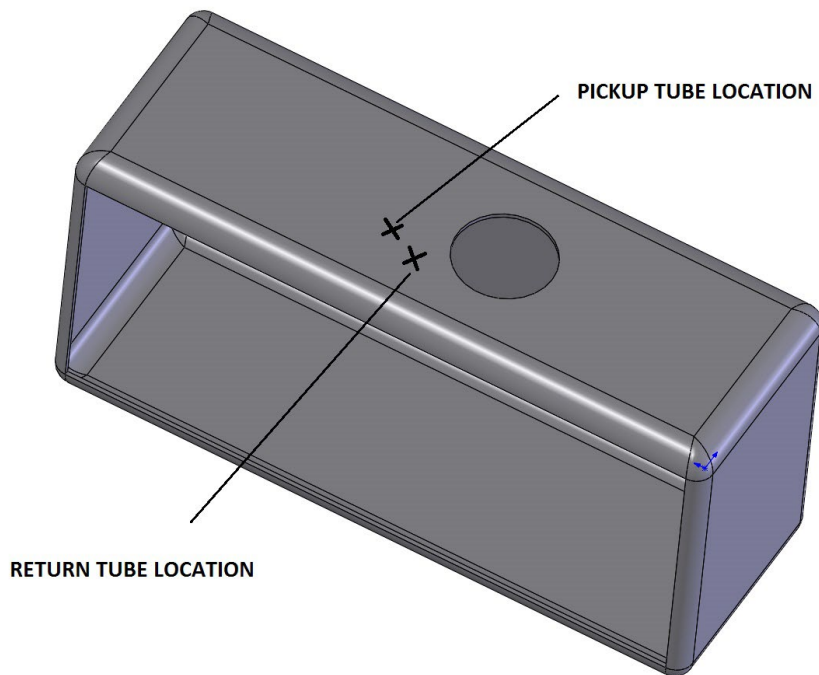


FIGURE 1-1

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.

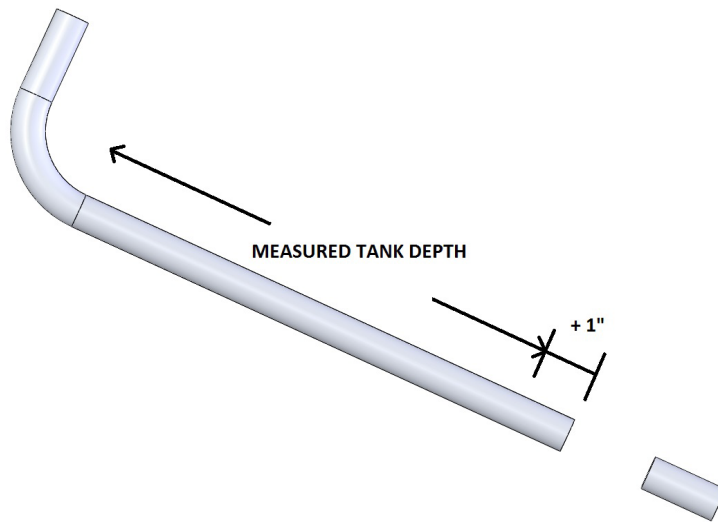


FIGURE 1-2

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.

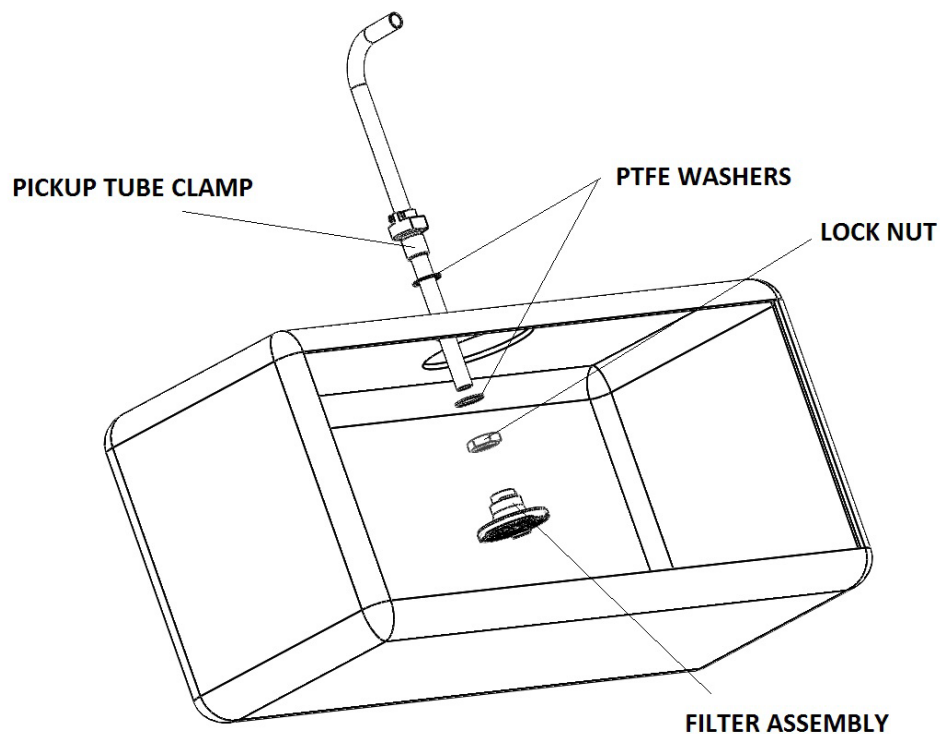


FIGURE 1-3

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

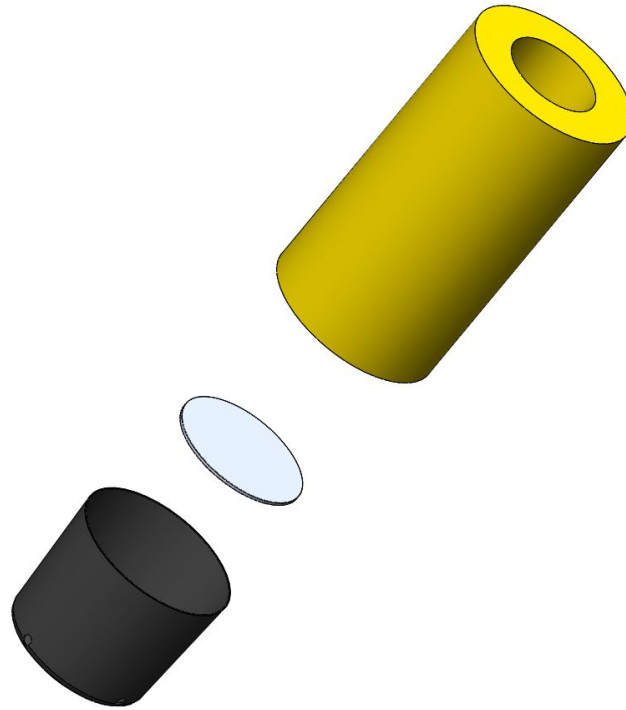


FIGURE 1-4

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**

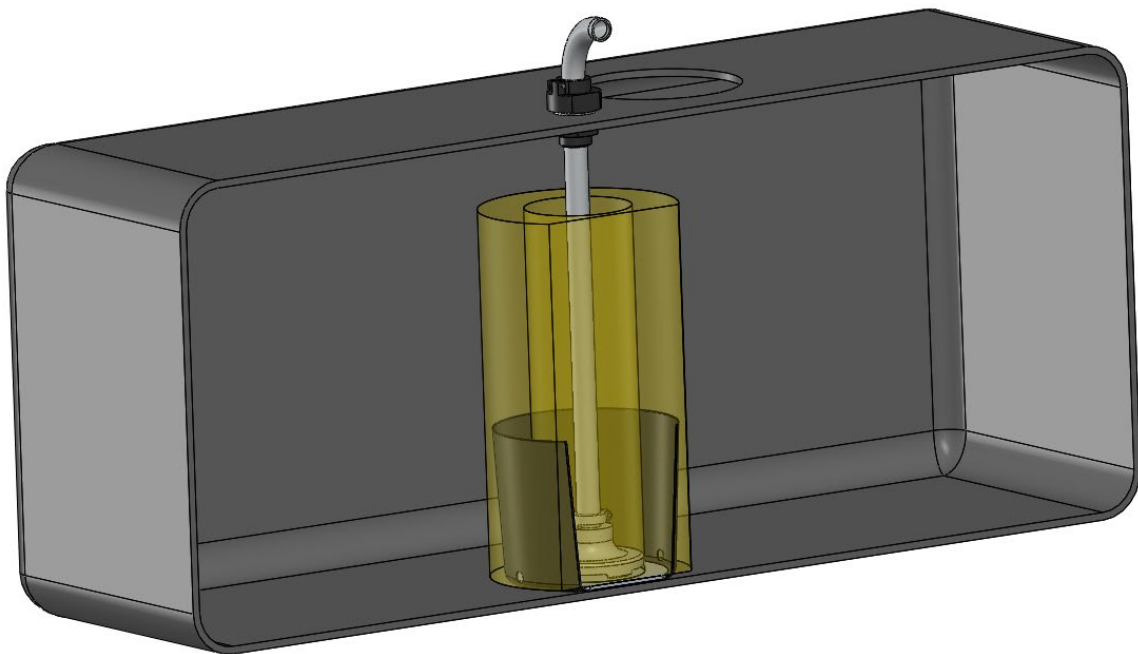


FIGURE 1-5

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

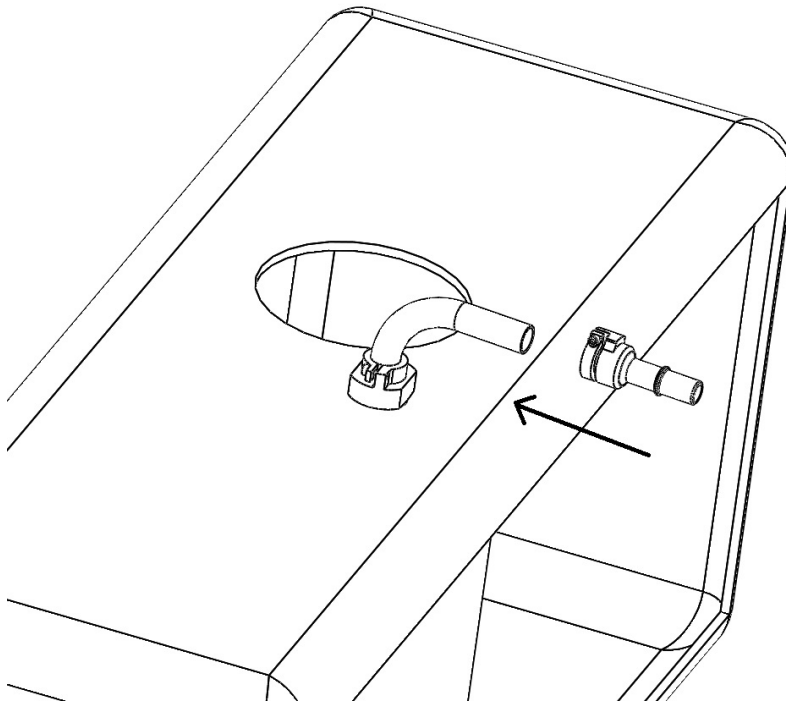


FIGURE 1-6

8. 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.
9. 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**

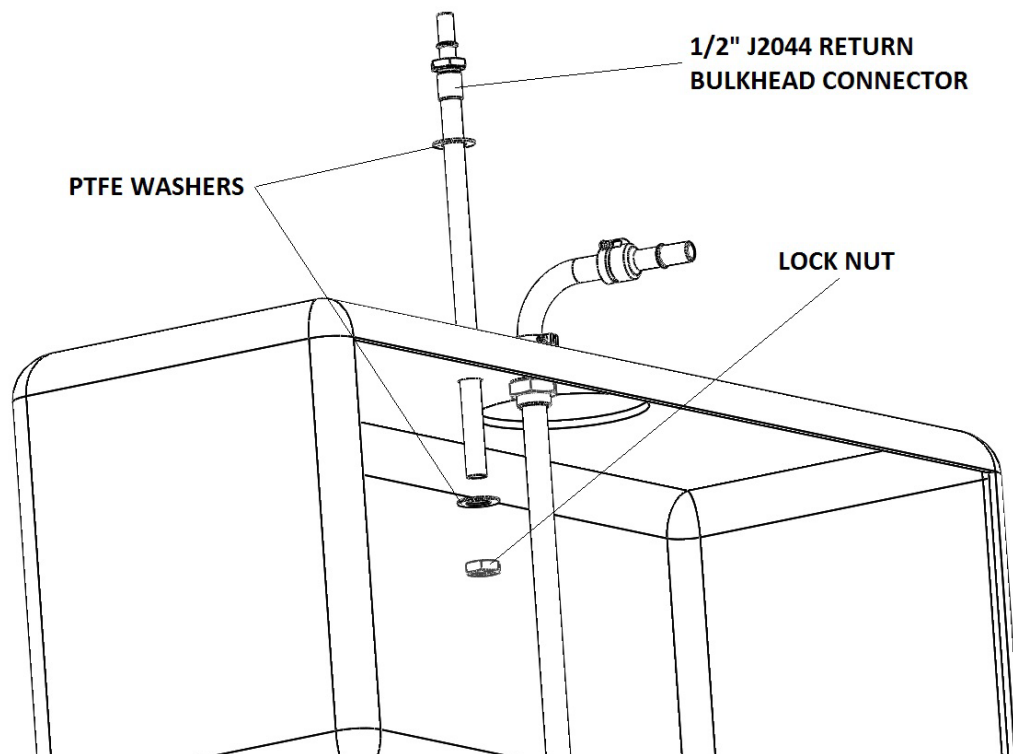


FIGURE 1-7

10. 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**

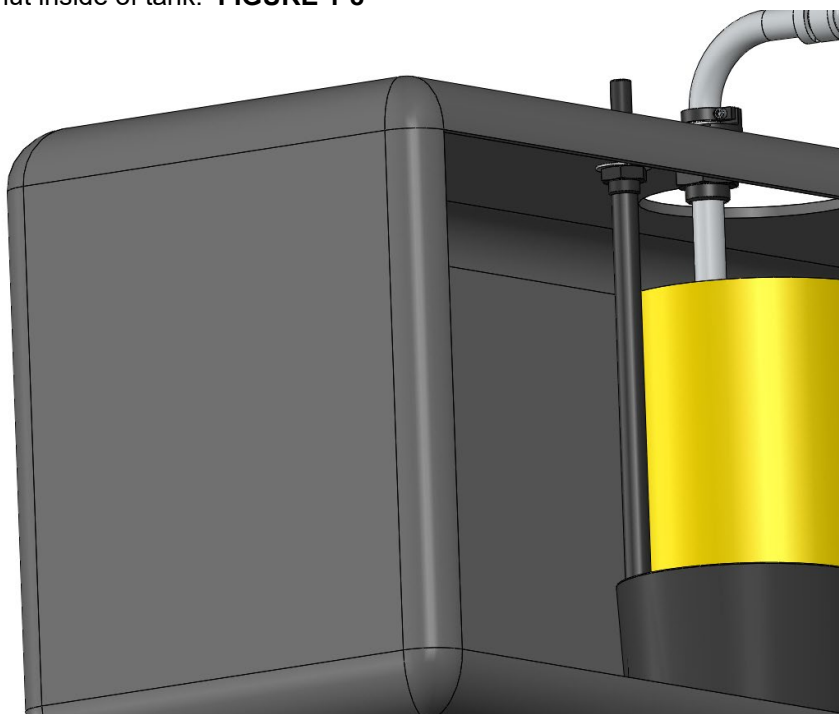


FIGURE 1-8

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**

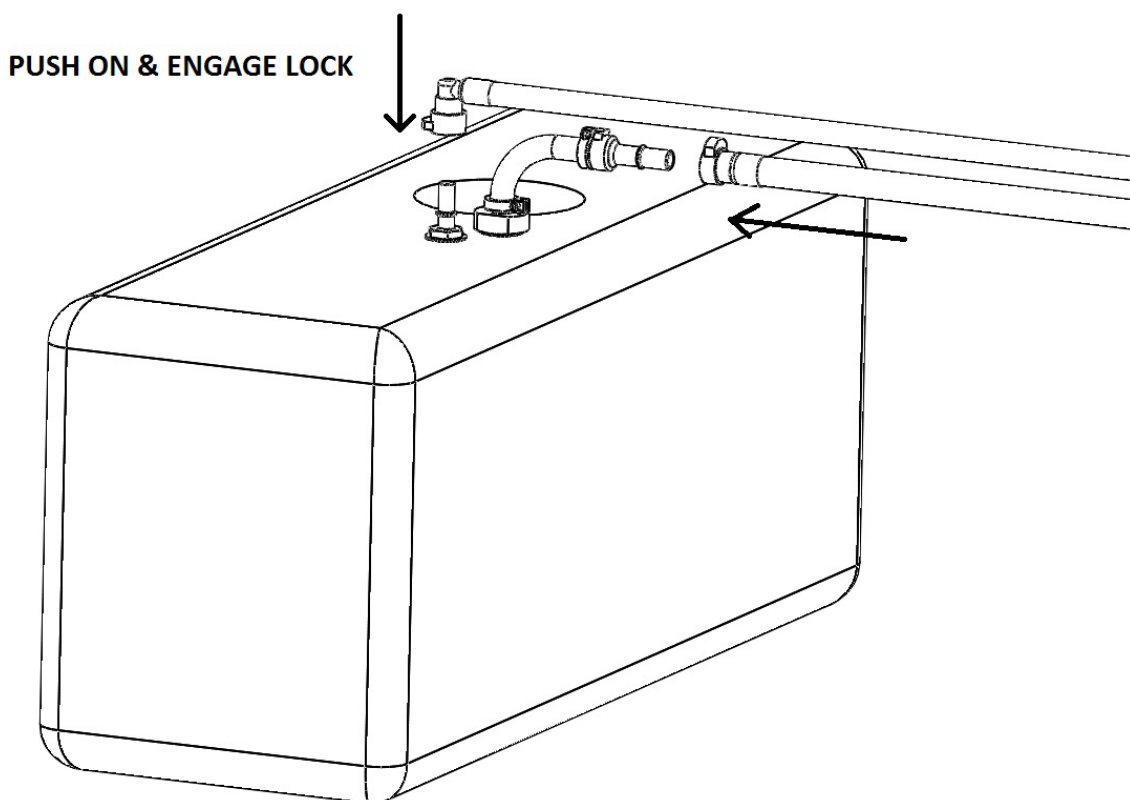


FIGURE 1-9

12. Route line away from moving parts and hot exhaust and secure in place.

Start the vehicle and verify all connections are leak free.

Contact US

RGA NUMBER REQUIRED FOR ALL RETURNS TO AEROMOTIVE.

To obtain an RGA number, please call (913) 647-7300 and ask for the Returns and Repairs department.

- **Shipping & Returns**
Aeromotive Inc.
10955 Mill Creek Road
Lenexa, KS 66219

General Inquiries and Tech Line: (913) 647-7300

General Email: info@aeromotiveinc.com

Tech Email: tech@aeromotiveinc.com

The Aeromotive Tech Lines are open Monday through Friday from 9:30AM to 5:00PM Central Standard Time.



WARNING: This product can expose you to chemicals, including chromium, which is known to the State of California to cause cancer or birth defects or other reproductive harm. For more information, visit: www.p65Warnings.ca.gov

AEROMOTIVE, INC. LIMITED WARRANTY

This Aeromotive Product, with proof of purchase dated on or after January 1, 2003, is warranted to be free from defects in materials and workmanship for a period of one year from the original date of purchase. No warranty claim will be valid without authentic, dated proof of purchase.

This warranty is to the original retail purchaser and none other and is available directly from Aeromotive and not through any point of distribution or purchase.

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.

Aeromotive will examine any product returned with the proper authorization to determine if the failure resulted from a defect or from abuse, improper installation, misapplication or alteration. Aeromotive will then, at it's sole discretion, return, repair or replace the product.

If any Aeromotive product is determined defective, buyer's exclusive remedy is limited in value to the sale price of the good. In no event shall Aeromotive be liable for incidental or consequential damages.

Aeromotive expressly retains the right to make changes and improvements in any product it manufactures and sells at any time. These changes and improvements may be made without notice at any time and without any obligation to change the catalogs or printed materials.

Aeromotive expressly retains the right to discontinue at any time and without notice any Aeromotive product that it manufactures or sells.

This warranty is limited and expressly limits any implied warranty to one year from the date of the original retail purchase on all Aeromotive products.

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This Limited Warranty covers only the product itself and not the cost of installation or removal.

This Limited Warranty is in lieu of and expressly excludes any and all other warranties, expressed or implied. This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.