



## 11165 INSTALLATION INSTRUCTIONS

### WARNING!

The fuel system is under pressure. Do not open the fuel system until the pressure has been safely and sufficiently relieved. Please refer to the appropriate vehicle service manual for the procedure and precautions necessary to relieve fuel system pressure safely.

To use this pump in your vehicle's fuel system, we recommend the following:

- The Aeromotive 325 Stealth pump is the same physical size as many OEM in-tank pumps. This does not necessarily mean it is suitable for a particular application. Consult the Aeromotive application guide first to determine if a 325 Stealth Pump is recommended for your car, before proceeding with installation.
- With the high flow rate of the Aeromotive 325 pumps, the fuel pump basket or integral in-tank baffling may require modifications to allow sufficient inflow from the main tank. Failure of the basket or baffling to remain full of fuel during high engine load may significantly impede the pump's performance.
- OEM bypass regulators are a part of most OEM "returnless" fuel systems, they're simply in the back of the car, or most commonly, in the tank with the pump. The extreme output of the Stealth 325 may be more flow than the OEM regulator can handle, resulting in false high fuel pressure at idle and low load. Installing a high flow, Aeromotive regulator and return line will allow stable fuel pressure at idle and low load, while allowing the full capacity of the fuel pumps flow at pressure to be available to the engine.
- Installing a new factory down-stream filter is **HIGHLY** recommended when installing this pump, and it should be monitored and serviced as needed to ensure fuel pump performance and service life.
- Your new Aeromotive 325 Stealth Fuel Pump is only one component part of your automobile's complete fuel system. You must ensure the complete fuel system is up to the task of supplying fuel to your engine, or severe engine damage may result. Contact Aeromotive if you have questions regarding how to address your complete fuel system, should you have the need.

Failure to follow the above may result in fuel leakage, bursting of the fuel lines, poor vehicle performance and/or decreased fuel pump life! Improper installation will void all warranties for this product!

### 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 gasoline. 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.

### Compatible Fuels:

Pump Gas; Race Gas

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

## APPLICATION INFORMATION

Aeromotive has published a specific application chart informing what known vehicles have a fuel pump form-factor that is compatible with the new Aeromotive 325 Stealth pumps. Please find this application guide on our website at [www.aeromotiveinc.com](http://www.aeromotiveinc.com) under the Tech Help folder tab and linked on the 325 Stealth Fuel Pump product pages. Further detailed information is available on our website in the 325 Stealth Pump FAQ section, located under the “Tech Help” folder tab.

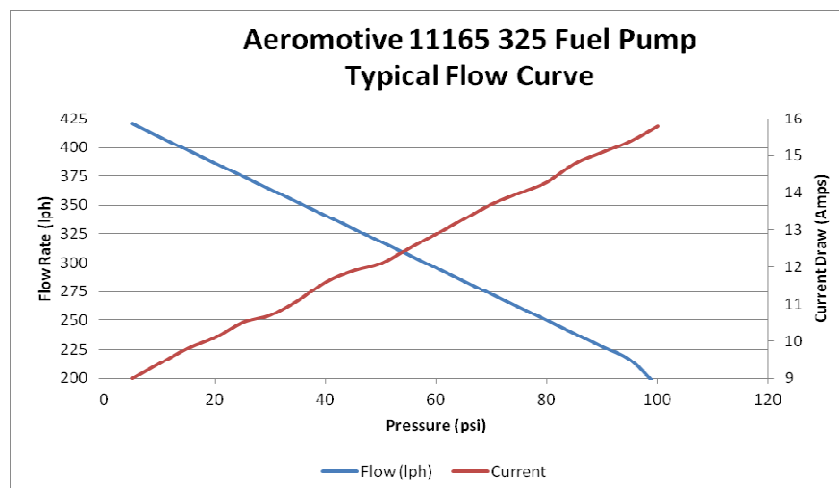
The 325 Stealth Pump, Aeromotive P/N 11165, features integral retention clips on the outlet end cap and has the same form factor as OEM, in-tank fuel pumps found in various make/model vehicles produced after 1998. These vehicles, in order to be compliant with the new EEC (evaporative emission control) Standards that took effect then, are all described as having “returnless” fuel systems.

Today’s “returnless” fuel system got its name from the apparent lack of a return line and/or bypass regulator in the car. In fact, many “returnless” fuel systems have both bypass regulators and return lines, they’re just not visible, often hidden in the fuel tank with the pump. Some “returnless” fuel systems are even more sophisticated, varying fuel pressure by changing pump speed to match changing engine fuel demand. However, even these “pulse-width modulated” (PWM) systems use a bleeder/return valve with high-pressure, blow-off capability. The 325 Stealth Pump features a turbine style pumping mechanism, designed for, and fully compatible with, P/M speed control.

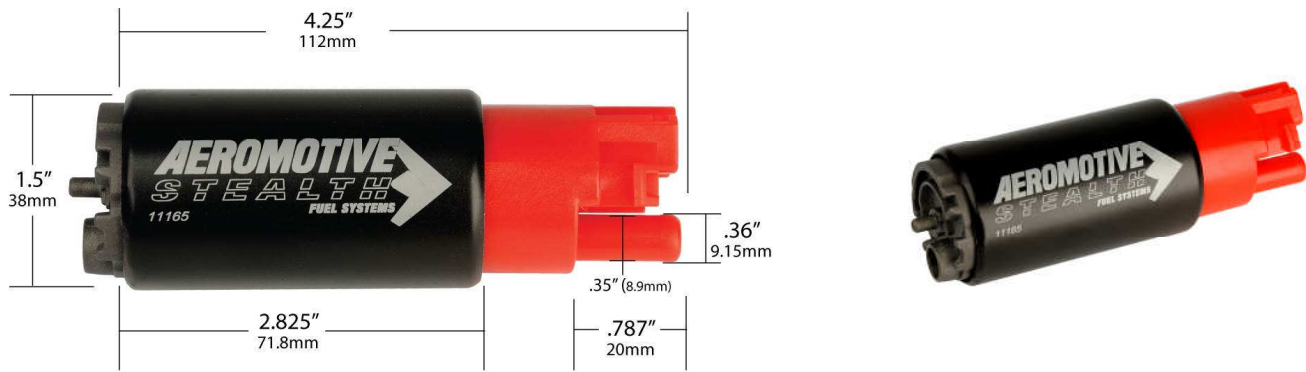
It is important to have a basic understanding of the “returnless” fuel system, and to realize the OEM carefully engineered it to work as a system. With that in mind, we can anticipate when installing a substantially higher flow fuel pump like the 325 Stealth Pump, additional modifications to the rest of the fuel system may be required to handle the increased flow and electrical demand properly.

Common modifications to optimize a returnless fuel system for use with the 325 Stealth Pump may include: Replacement of the OEM fuel filter assembly with an aftermarket, high-flow fuel filter (where possible). Replacement of the stock bypass regulator in the tank with a high-flow adjustable regulator and return line outside the tank. Pulse modulated systems may require reprogramming the OEM ECU/Fuel Pump Driver Module with a new voltage curve suitable for the new, higher flow pump.

**IMPORTANT:** Replacement of the OEM fuel filter with a new, factory replacement fuel filter, along with upgrading the wire gauge/size for the main fuel pump circuit, including power and ground, are strongly recommended modifications when installing the 325 Stealth pump. Optional wiring upgrades to improve electrical supply to the 325 Stealth Pump include P/N’s 16301 and 16307.



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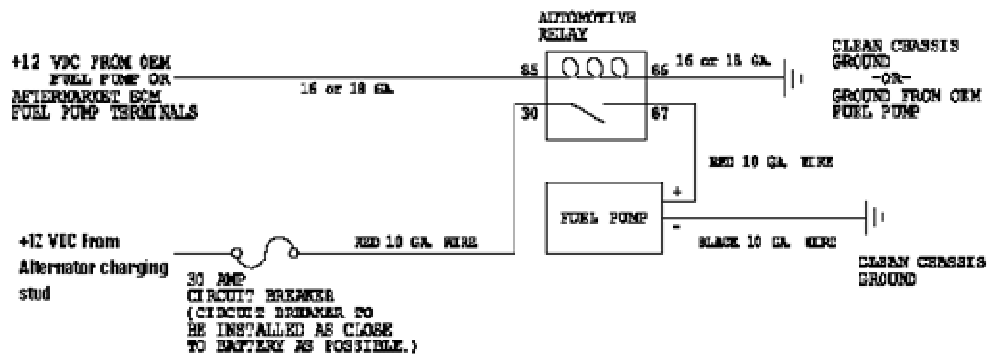
Note: Most applications allow the use of the stock electrical plug with the correct +/- orientation. In the event stand-alone wiring is required, the positive and negative posts are oriented as illustrated below.

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## 11165 Vapor Purge



**Warning:** Note the location of the vapor-purge port / channel openings at the bottom of your new 325 Stealth Fuel Pump, as illustrated above. Be certain to check for and eliminate any restrictions to this port during installation. Failure to do so may cause slow or no priming, resulting in difficulty starting the engine and permanent damage to the fuel pump.



## ***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.

No person, party or corporate entity other than Aeromotive shall have the right to: determine whether or not this Limited Warranty is applicable to any Aeromotive product, authorize any action whatsoever under the terms and conditions of this Limited Warranty, assume any obligation or liability of any nature whatsoever on behalf of Aeromotive under the terms and conditions of this Limited Warranty.

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.