



**18864 HELLCAT™ Swap Tank  
66-67 GTX/Charger  
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 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.

The enclosed Aeromotive fuel tank/pump assembly utilizes an outlet cap terminating with one female ORB-6 supply port, and one female ORB-6 return port. **Two male ORB-6 to AN-6 Male Flare straight fittings are REQUIRED for proper fitment into this application. If controlling the pump with pulse width modulation the return port must be plugged with an -6 ORB port plug. See below.**

**Carbureted or EFI Application**

- Supply – Male ORB-6 to AN-8 Male Flare straight fitting (i.e. Aeromotive P/N 15649 or equivalent).
- Return – Male ORB-6 to AN-8 Male Flare straight fitting (i.e. Aeromotive P/N 15649 or equivalent). Male -6 ORB port plug (i.e. Aeromotive P/N 15626)
- AN-08 (1/2") hose should be used on supply and return lines (return line only used if pulse width modulation is not used to control the fuel pump).

Factory ventilation will be retained as per OEM spec.

The fuel pump used in this tank is the Aeromotive Stealth 525 (part # 11170).  
525 Stealth Fuel Pump Specifications:

Fuel pump flow:	470 LPH @ 40 psi and 13.5V
Current Draw:	17 amps @ 40 psi and 13.5V
Continuous operating psi range:	3psi to 80 psi with carb or EFI bypass regulator
Continuous current draw range:	15-23 amps at pressures from 3psi to 80 psi
Pump internal By-Pass / Max Pressure:	105 psi maximum, dead-head pressure

To ensure proper pump function and fuel pump service life, we strongly recommend the following:

- **Use of correct fuel line size as stated above.**
- **Installation of 10 micron post-filter between tank outlet and pressure regulator. (i.e. P/N 12350).**
- **Fuel pump wiring should be 10 gauge wire and triggered with a relay rated at a minimum of 30 amps (Aeromotive fuel pump wiring kit 16307).**
- **A high flow, return style regulator must be used if pulse width modulation is not used to control the fuel pump (EFI – 13134 (with 75-120 psi spring installed). Carb – 13204, 13304, or 13220). OEM style filter/regulator combos are NOT recommended, having proven unable to handle the high flow pumps, causing premature pump failure.**

Failure to follow the above recommendations 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!

Tank sending unit used in your new Aeromotive Gen 2 Stealth tank is 73-10 Ohm reading.  
Tank Capacity: 19gal

### CAUTION:



Aeromotive Components, including the Stealth Fuel Tanks with the patented Foam and Bladder Baffle assembly, have been thoroughly tested for use in common pump gas, non-oxygenated racing gas, ethanol including E85 from corn, and petroleum based (not-bio) diesel fuel. Blending fuels and/or additives, including cleaners, stabilizers or octane boosters, cannot be tested and could result in damage to Phantom system components or other components in the fuel system. These failures cannot be anticipated and may not be covered under warranty. Contact the Aeromotive Tech Department with any questions on blending of fuels and/or use of additives.

The following steps are typical of most installations:

1. Once the engine has been allowed to cool, disconnect the negative battery cable and relieve the fuel system pressure.
2. Raise the vehicle and support it with jack stands.
3. Referring to the appropriate vehicle service manual for instructions, drain, disconnect any electrical and fuel component connections and remove the OEM fuel tank.
4. Install the new Aeromotive fuel tank in the vehicle and make all the appropriate connections.
5. If not using PWM to control the pump, mount the appropriate, high flow EFI or Carbureted bypass pressure regulator, as near the engine as possible, and mount it such that the feed and return lines avoid the headers and exhaust system.
6. Mount a high flow fuel filter between the fuel pump outlet and the bypass pressure regulator in a location that is easy to get to in order allow a trouble free filter inspection and service once per year.
7. Plan a safe route and secure the appropriate sized AN-8 (1/2") feed and return lines (if return line is used).

***Note: Be sure to route all fuel lines clear of any moving suspension or drivetrain components, and any exhaust components! Protect fuel lines from abrasion and road obstructions or debris.***

**Note: Per MOPAR HELLCAT™ Engine Kit Instructions; it is highly recommended that a pulse width modulated variable pressure fuel pump and fuel delivery is used with the HELLCAT™ Engine package. The 525 pump installed in the Aeromotive HELLCAT™ swap tank is compatible with pulse width modulation (PWM). A separate fuel pump harness and fuel pump control module (FPCM) is required from MOPAR in order to properly control the pulse width modulation function of the pump. See the 6.2L Supercharged Crate HEMI™ Engine Kit Instruction Sheet for details on this harness and the installation procedure. MOPAR instructions indicate that diagnostic trouble codes may appear if the fuel pump harness and fuel pump control module is not used to control the fuel pump.**

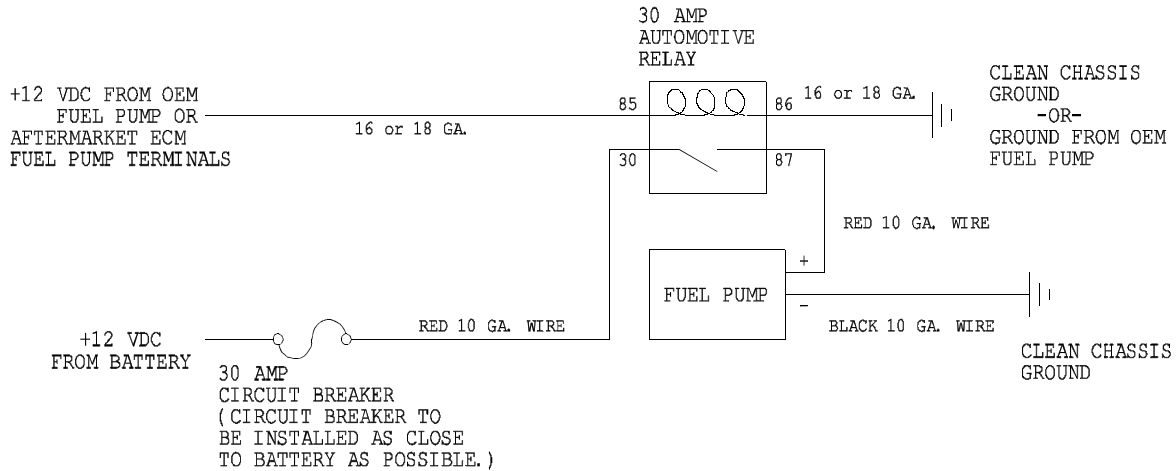
**When controlling the pump with pulse width modulation a bypass fuel pressure regulator is not required and not recommended. This eliminates the need for a fuel return line. The return line port on the fuel tank can be capped with a -6 ORB port plug (PN: 15626) the fuel pressure will be controlled by the fuel pump control module from MOPAR.**

**If not using the suggested MOPAR PWM harness, an EFI bypass fuel pressure regulator will be required for system operation (i.e. Aeromotive 13134 with 75-120 psi spring installed). A return line to the fuel tank will be required if using a bypass regulator. See MOPAR HELLCAT™ Engine Kit Instructions for required fuel system pressure. Note: MOPAR instructions indicate that diagnostic trouble codes may appear if the fuel pump harness and fuel pump control module is not used to control the fuel pump.**

**If not using the suggested MOPAR pulse width modulated harness to control the fuel pump, connect the Aeromotive fuel pump with the following procedure and as shown in the diagram:**

- 8. Connect electrical power (12 VDC) power and ground to the pump. Aeromotive wiring kit P/N 16307 is recommended. Make sure you use stranded, insulated copper wire, in the sizes shown, with matching crimp-type connectors for all connections. *CAUTION: The pump must not be connected directly to the battery. Make connection from tank exterior to clean chassis ground using included ground wire, this is essential to the sending unit function.***

***Note: Route all electrical wires clear of any moving suspension or drivetrain components and any exhaust components! Protect wires from abrasion and road obstructions or debris.***

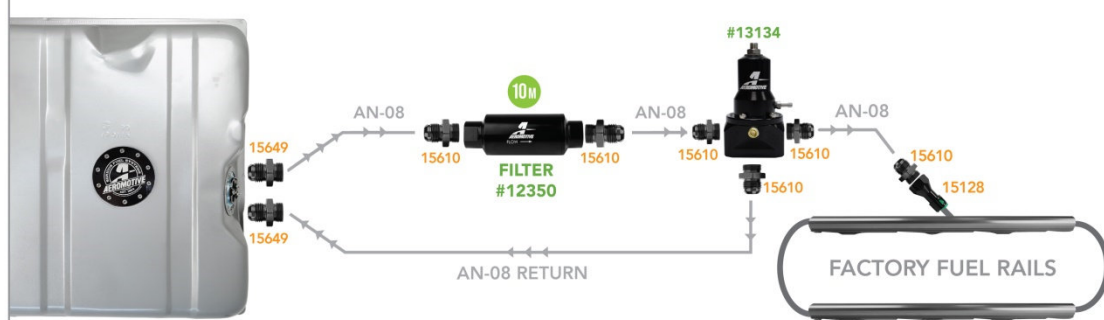


**CAUTION: While performing the following steps, if any fuel leaks are detected, immediately turn the fuel pump OFF, remove any spilled fuel and repair the leak(s) before proceeding!**

9. Turn the fuel pump ON without starting the engine, allow the pump to run for several seconds and check the fuel pressure. If no pressure, turn the fuel pump OFF, wait one minute, then turn the fuel pump ON and recheck the pressure. Repeat this fuel pump OFF and ON procedure until the fuel pressure gauge registers pressure or you detect a fuel leak. If necessary, loosen the fuel line fitting at the pressure regulator to bleed off excessive air in the system. Tighten any fuel line fittings which were loosened and insure that any spilled fuel is cleaned up and removed from the vicinity of the vehicle. If no pressure is registered on the gauge after running the pump for several seconds and you have found no leaks, check all fuel and electrical connections to determine the cause.
10. Once the fuel pressure gauge registers pressure, start the engine. The gauge on the fuel pressure regulator should register between 3 and 12 psi for carb and 35-80 for EFI. Now adjust the fuel pressure regulator to the desired setting. Test drive the vehicle to insure proper operation and recheck the fuel system for leaks. If any leaks are found, immediately discontinue use of the vehicle and repair the leak(s)!

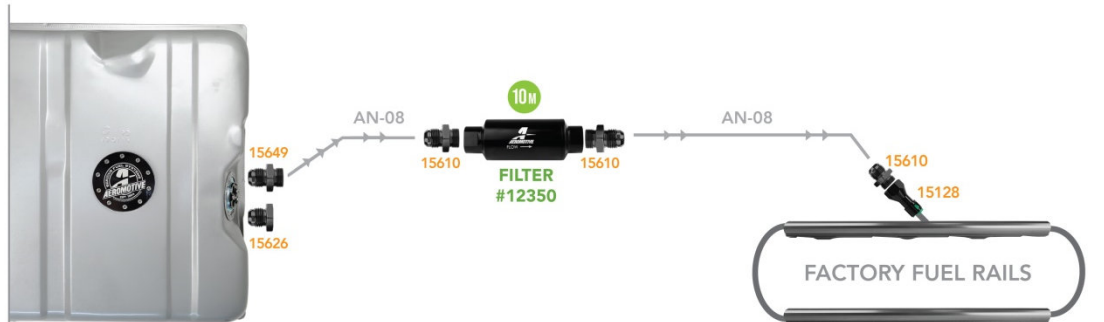
# HELLCAT™ SWAP

RETURN STYLE - FACTORY FUEL RAILS



# HELLCAT™ SWAP

PULSE WIDTH MODULATED - FACTORY FUEL RAILS



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**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](http://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.

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.