

## **CAUTION!**

Installation of the TSP Inline Fuel Pump requires the installer to handle gasoline. It is imperative that all work is carried out in a well-ventilated area and a fire extinguisher rated for gasoline fires is within easy reach of all personnel working on the fuel system. Extinguish all open flames, prohibit smoking, and eliminate all sources of static electricity or any other source of ignition BEFORE proceeding with installation.

Wear protective clothing, goggles, and gloves rated for gasoline. Contact with gasoline is hazardous to your health; ensure that you are well protected from contact with gasoline.

The Inline Fuel pump is ONLY compatible with gasoline. The Inline Fuel Pump can be used as an in tank pump or an externally mounted pump. Ensure that the wiring to the pump is rated for at least 25 amps and the insulation is rated for automotive use. Use a fused circuit for the pump with a fuse rated at 25 amps.

### **TSP Inline Fuel Pump Kit Contents:**

#### QUANTITY DESCRIPTION

- (1) 200LPH TSP Inline Fuel Pump
- (1) -6 to -8 AN Fitting
- (1) -10 to -8 AN Fitting
- (2) Push Lock 180 degree -8 AN Fittings
- (2) Push Lock 90 degree -8 AN Fittings
- (2) Electrical Ring Terminals
- (2) Terminal post nuts and lock washers
- (2) Terminal post boots
- (1) Instructions

The TSP Inline Fuel Pump is intended for electronic fuel injection systems only. It is not suitable for CARBURETED engines. Fuel Pump designed to be used externally or as an in-tank installation. A pre-filter rated at 100 microns MUST be used (TSP #JM1023). Failure to use a suitable pre-filter will result in premature failure of the pump. TSP-10AN Inlet Filter provides an easy solution for in-tank pump protection.

## **FUEL HOSE ROUTING AND INSTALLATION**

***IMPROPER FUEL HOSE ROUTING AND INSTALLATION DRAMATICALLY INCREASES THE RISK OF FIRE. BE SURE TO FOLLOW THE FOLLOWING GUIDELINES:***

It is important to ensure that the hoses or lines for the fuel delivery system are clean, not kinked, do not pass hot exhaust components and are terminated correctly. Inadequate fuel delivery often is the cause of calibration errors that may be detrimental to engine life. NEVER route fuel hoses through the interior of a car. Whenever possible, use a delivery tube to make the connection from the pump discharge to the filter in the front of the car.

The lines should be rated to withstand at least twice the maximum pressure of the EFI system. When routing fuel lines, it is imperative that they are protected from road hazards and the exhaust system heat. The fuel line should NEVER be routed near battery cables. Use clamps to secure AN hose every 15 inches, or 24 inches if a rigid tube is used. Use the following table will help you determine which hose size is correct for your application.

## **ELECTRICAL REQUIREMENT**

The supply voltage will affect the fuel delivery of the TSP Inline Fuel Pump. The typical electrical system on modern cars is between 13.2 – 14.2 volts. Although the TSP Inline Fuel Pump will run at lower voltages the flow will be lower. Ensure the voltage is 13.5V at the pump. The current requirement is a FUSED circuit capable of conducting 25 amps. Failure to use a fuse WILL cause a fire hazard in the event the pump fails from contamination. The correct wire size will be determined by the length of wire, the wire type and the resistance of any terminals, splices or solder joints in the electrical or ground supply. The ground is equally important and the preferred ground is to route the ground wire to a star ground source that is directly attached to the battery negative post. The minimum wire gauge is 14 gauge. TXL wire. Twelve feet (12') of TOTAL CIRCUIT length (power & ground) 12 gauge is required and Twenty feet (20') 10 gauge is required.

Before wiring the pump to the electrical system make sure the polarity is correct. Connecting the pump with reverse polarity will damage the pump and will void the warranty. The pump has markings in the discharge end cap at the fitting boss to indicate polarity, Red is positive (+) and Blue is negative (-). Post installation inspection

BEFORE starting the engine, ensure there are no leaks at any point in the fuel system. This pump is capable of generating more than 125 PSI fuel pressure so excellent fuel system integrity is required. Check every connection point visually and mechanically. While the system is powered up, move fuel hoses to ensure all fittings are seated correctly.

## **WARRANTY**

All Top Street Performance products are sold with a one (1) year warranty and expire one (1) calendar year from date of sale.\* Top Street Performance will replace any product that is found to be defective in material and/or workmanship. If replacement product is not available at time of warranty claim, Top Street Performance will issue store credit for the original purchase price. Transportation charges for replacement parts or products will be covered by Top Street Performance (within the United States only). Transportation charges for initial return of alleged defective product to Top Street Performance will not be covered. Claims will be approved only after product has been inspected and deemed defective by Top Street Performance.

This warranty covers product relative to defective material and/or workmanship only. Top Street Performance is not responsible for labor charges, lost profits, injury to person(s), damage to property, towing charges, storage charges, substitute transportation, or lodging. Top Street Performance will not approve claims caused by problems resulting from non TSP parts, improper installation (including installation in application(s) for which product was not designed), lack of required routine maintenance, improper storage of product, incidental damage, or an act of God. If item is found to be damaged out of the box, Top Street Performance is to be notified immediately. Any claims caused by the installation of an item known to be damaged will not be covered.