



## INSTALLATION MANUAL FOR THE IN-LINE APPLICATION OF THE FITCH® FUEL CATALYST

CERTIFIED TO EPA. CERTIFICATION  
STANDARDS" UNDER 40CFR85.2114  
& CARB EO # D352-1

### WARNINGS

- Use of a certified mechanic is highly recommended
- Read complete instructions prior to installing
- Do not smoke or be near open flame while installing
- Fuel system is under pressure. Wrap all fittings with a rag or paper towel when separating or cutting to absorb fuel spill. Eye and hand protection are required.
- Contact APSI for any questions at 888-881-2774

### IMPORTANT NOTES

For installations on all engines, disconnect battery leads and put both leads together for at least 30 seconds prior to installation. After installation reconnect the battery leads and drive the vehicle over 50 mph (80kph.) for a minimum of 10 minutes (if convenient). This procedure will reset the computer's memory on fuel-injected engines, to more rapidly sense the treated fuel. **For diesel and all other gasoline engines, disconnecting the battery is good safety practice.**

Before installation of the Fitch unit the vehicle should be checked to ensure that it is in good running condition, as it will not compensate for existing electrical or mechanical defects.

**FITTINGS AND SEALANT:** For all models use fittings appropriate to match the fuel system on the engine. Plastic fuel lines require compression fittings with internal reinforcements. Ensure you are using high-pressure hose when required. The Fitch units are equipped with the following thread sizes and adapters that use an o-ring or flare seal that do not require any thread sealants (other sizes are available or contact your local hydraulic or truck part fittings supplier):

**F50, F100, F200, F300 UNF straight thread, 9/16-18. Male O.R.B. tube adaptor to a #6 JIC 37° flare.**

**F400, F500, F750, F1000 UNF straight thread, 7/8-14. Male O.R.B. tube adaptors to a #10 JIC 37° flare**

**LOCATION:** Be certain that the location selected has sufficient clearance and that the fuel lines will be free from obstruction and abrasion. Do not mount the unit closer than eight (8) inches (200mm) to any electrical device such as alternators, generators, or pumps as the electromagnetic field they produce can disrupt the efficient functioning of the Fitch® unit. Do not mount the unit closer than eight (8) inches (200mm) to any heat source such as exhaust pipes or exhaust manifolds, catalytic converters or mufflers. **NOTE THE DIRECTION OF THE FUEL FLOW INDICATOR ARROW ON THE UNIT. ALL UNITS MUST BE MOUNTED VERTICALLY WITH FUEL GOING IN THE BOTTOM.** This will allow trapped air to escape and prevent air lock as well ensure all the catalyst surface is in constant contact with fuel. The Fitch unit should be mounted in the fuel supply line, not the return line (unless specified), on the low-pressure suction side of the fuel pump in diesel applications. In gasoline applications the unit can be fitted before or after the fuel pump as in many cases the fuel pump is in the tank. The fuel must be filtered prior to entering the Fitch in-line unit. **All Fitch units are pressure tested and Coast Guard accepted to 600 PSI.**

**CONNECTION:** Inquire with APSI for any installation questions and if there may be an installation kit available for your vehicle. **CAUTION: engines with fuel injection must use EFI minimum rated 30R9 hose only.** Install the fittings to each end of the Fitch unit and tighten. **For diesel engines, we recommend filling the canister with fuel after installing the inlet line, this will prevent air from entering the system.** Use the mounting clamps provided or suitable alternatives; secure the unit in the selected location. Ensure that the clamps are tightened. Check all fuel connections and when satisfied turn the key to on and check for leaks. Then start the engine and let run for several minutes while checking carefully for any leaks again.

**BREAK-IN PERIOD:** The length of this break-in period depends on the age and condition of the engine. An engine in average condition should take approximately 500 miles, (800 kilometers) or 10 operating hours to achieve maximum benefit from the catalyst. During the break-in period the Fitch treated fuel will be cleaning any excess carbon and resins from the engine and fuel system. It is therefore possible to have higher emissions and/or fuel consumption during this period. The cleaning out of this build up from the engine may initially result in dirtier engine oil than normal since much of the carbon residue cleaned from the combustion chamber ends up in the engine oil pan. After the first oil change however, the engine oil will continue to be much cleaner than before use of the Fitch Fuel Catalyst due to the reduction of oil soot contamination. It is also possible, on high mileage engines, to find the fuel filter will need replacing, as it will accumulate deposits being loosened from the fuel system. A clogged filter will cause poor fuel economy and

lack of power. After the break in period, it may be possible to evaluate your vehicle with lower octane fuel. Drop down one grade at time to ensure proper engine performance.

**SPECIAL NOTE FOR LEADED TO UNLEADED CONVERSIONS:** It is recommended that at least 500 miles, (800 kilometers) or 10 hours be run on leaded fuel with the Fitch installed before converting to unleaded fuel.

**SPECIAL NOTE FOR CARBURETED ENGINES:** For maximum performance of the Fitch, this engine type may be adjusted after 1000 miles; (1600 kilometers) to further enhance the Fitch Fuel Catalyst's benefits (adjust timing, A/F ratio, etc.)

**Reminder:** If the oxygen sensor in engines with electronic fuel management systems is coated with carbon, results with the use of the Fitch may be limited. If this is the case the oxygen sensor should be checked and either cleaned or replaced.

The Fitch Fuel Catalyst will need to be replaced after 250,000 miles (400,000 kilometers), 5,000 operating hours or whichever comes first. The Fitch Fuel Catalyst is recyclable and may be returned to your local distributor upon replacement.

**NOTE: In Line Quick Installation Kits Are Also Available For Most All Domestic Diesel & Gasoline Vehicles – Cars, Trucks, SUVs. These kits include OEM Factory Fittings which facilitates quick and easy installation (not cutting into fuel line required). Call Our Tech Support Line For The Correct Install Kit For Your Vehicle or tips on installation. (888) 881-2774 Toll Free**



**RIGHT OF RETURN, REFUND AND WARRANTY: TY:**

The Fitch® Fuel Catalyst products have a ninety (90) day money back guarantee provided the installation instructions were followed correctly and the return of the product is based either on product defect or dissatisfaction with the product's performance.

The Fitch Fuel Catalyst device is guaranteed to be free from defects in material and workmanship for a period of 250,000 miles (defined by EPA in 40 CFR 85.117), or 5,000 operating hours from the date of installation. The manufacturer warrants that the installation of Fitch Fuel Catalyst product on a vehicle will not cause the emissions noncompliance of the engine on which it is installed for the life of the catalyst from the date of installation

OTHER THAN THE WARRANTIES HEREIN CONTAINED, THERE IS NO OTHER WARRANTY, WHETHER EXPRESSED OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) THAT SHALL EXIST IN CONNECTION WITH THE SALE OR USE OF ANY FITCH FUEL CATALYST PRODUCT.

The Manufacturer assumes no liability for faulty or improper application of its products or resulting from collision or abuse.

All claims under the Manufacturer's warranty must be made during the applicable warranty period and the product claimed defective or non-conforming returned by Buyer. Return the defective device along with dated proof of purchase to the distributor from which the device was purchased so that the distributor may handle your warranty claim in an expeditious manner. Manufacturer will repair, or at its option, replace any defective or non-conforming product and return the repaired or replacement product without charge.

SUCH REPAIR OR REPLACEMENT IS THE EXCLUSIVE REMEDY (WHETHER UNDER THE THEORIES OF BREACH OF CONTRACT OR WARRANTY, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER LEGAL THEORY) AVAILABLE FROM MANUFACTURER AND MANUFACTURER IS NOT RESPONSIBLE FOR DAMAGES OF ANY KIND, INCLUDING INCIDENTAL AND CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OF THIS CONTRACT.

Manufacturer's warranties shall not be enlarged, diminished or affected by, and no obligation or liability shall arise or grow out of Manufacturer's rendering of technical advice or in service in connection with an order or the goods furnished.

Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or exclusions of implied or deemed conditions or warranties, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from jurisdiction to jurisdiction.

Fitch Fuel Catalyst is registered trademark of and is manufactured by:

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Tech Support – toll free (888) 881-2774  
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