

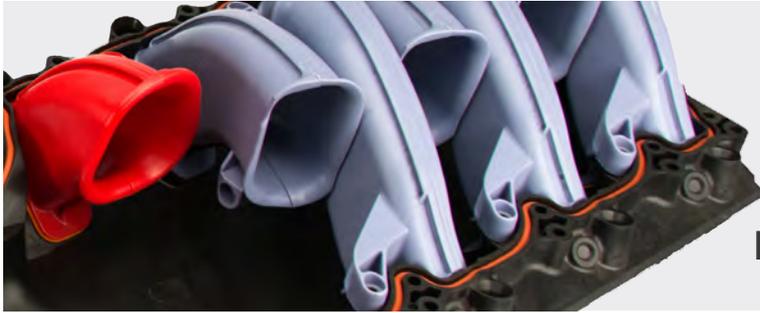


# The Leading Name In Fuel Air Spark Technology

**EFI SYSTEMS • FUEL SYSTEMS • INTAKE MANIFOLDS • IGNITION SYSTEMS**

[WWW.FUELAIRSPARK.COM](http://WWW.FUELAIRSPARK.COM) • EFI HELP™ 1.877.334.8355

# Hot Products



PG.46

**LSX<sup>R</sup> INTAKE  
RUNNERS**



PG.3

**EZ-EFI<sup>®</sup> FUEL**



PG.34

**XDi DUAL-SYNC  
DISTRIBUTORS**



PG.35

**IGNITION  
CONTROLLERS**

**TECHNICAL ASSISTANCE** is available through a variety of sources:

Toll Free EFI HELP™: 1.877.334.8355

Website & Chat: [www.fuelairspark.com](http://www.fuelairspark.com)

Email: [tech@fuelairspark.com](mailto:tech@fuelairspark.com)

Twitter: @CPGTech

**EFIHELP™**  
**877.334.8355**

Technical and Sales Personnel are available from 8:00 a.m. to 5:00 p.m. CST, Monday through Friday and from 9:00 a.m. to 4:00 p.m. CST, Saturdays. FAST™ is closed on legal holidays.



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## Incredibly Advanced. Seriously EZ.

In the past, carburetor-to-EFI conversion was no picnic. At the very least, you needed a laptop and significant tuning experience. But thanks to FAST™ engineers utilizing thirty years of experience in fuel injection strategy, those days are over. With the EZ-EFI® Self Tuning Fuel Injection Systems, you get EFI technology that does all the work for you. Simply hook it up, answer the basic Setup Wizard questions on the included hand-held display, and the system tunes itself as you drive. As the most popular self tuning EFI systems on the market today, FAST™ EZ-EFI® systems have thousands of successful installs.

FAST™ offers two EZ self tuning systems. First is the original EZ-EFI®, now known as EZ-EFI® Fuel, with more advanced features than the first generation EZ-EFI®, as well as providing better fuel distribution and airflow for systems up to 650 horsepower. Second is EZ-EFI® 2.0 Fuel + Ignition that builds from the proven EZ-EFI® foundation, adding the ability to control ignition, eight progressively staged fuel injectors with 1200 horsepower capability and the most advanced and intuitive Setup Wizard on the market.

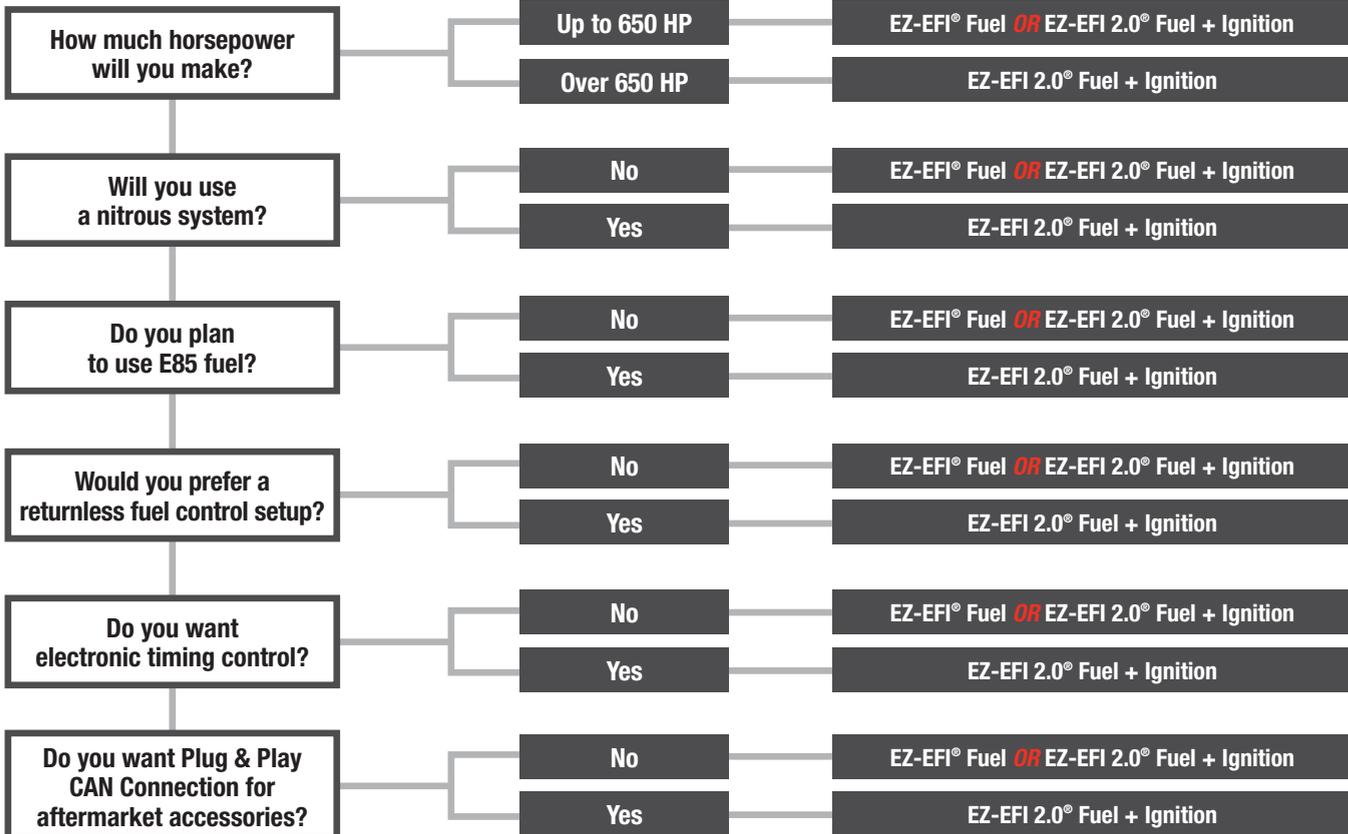
With both systems available, along with numerous master systems comprised of the base EZ-EFI® Fuel/EZ-EFI® 2.0 Fuel + Ignition kits and other FAST™ components, you're sure to find exactly what suits your specific application's needs to convert from a carbureted setup to electronic fuel injection. Don't worry, it's never been EZ-ier.

### EZ-EFI® Advisor

Answer each question below for help deciding which system serves your needs.

#### QUESTIONS

#### APPROVED SYSTEMS





# EZ-EFI® FUEL SELF TUNING FUEL INJECTION SYSTEM



**NEW DESIGN**

The next generation of the world's simplest self tuning fuel injection system is here. Designed for all applications making up to 650 horsepower, the EZ-EFI® Fuel system easily bolts onto any carbureted or multi-port application in a single afternoon, making it the easiest EFI system you will ever install. Simply hook up the system, answer the questions from the improved Setup Wizard on the color touchscreen hand-held unit, and the system will tune itself as you drive.

The hand-held includes a variety of display dashes, a clean and easy to use interface and an LED indicator that can alert users to errors (including overheating) or be used as a shift light. An updated wiring harness features a premium loom, added protective fuses and a streamlined design, while the ECU hardware has been updated to provide added protection against electrical/ignition noise and hardware damage.

FAST™ EZ-EFI® Fuel now features a die cast and black powder-coated four injector throttle body with integrated fuel rails. It provides even better fuel distribution and more airflow than the original, and *NO manifold replacement is needed*. In addition to matching any 4150-style carbureted manifold, the EZ-EFI® Fuel Self Tuning Fuel Injection System also works with your original carb-style throttle linkage and features OEM sensors, including standard GM versions available at any auto parts store. What's more, it works with all ignition setups – including HEI. EZ-EFI® Fuel can be installed easily in an afternoon and is a “must have” for your street rod or muscle car.

For more aggressive applications, the EZ-EFI® Dual Quad Upgrade Kit is capable of supporting 1200+ horsepower engines with dual quad carburetor-type manifolds. In addition, the Multi-Port Retro-Fit EZ-EFI® allows owners of multi-port fuel injected applications to experience the benefits of EFI with no limit on horsepower because the system is based on each customer's supplied injectors. Meanwhile, the EZ-EFI® Jeep Kit with Inline or In-Tank Fuel Pump Kit is engineered specifically to work with the unique requirements of 1972-1991 Jeep CJ/YJ 4.2L, 6-cylinder applications.



- Standard single throttle body system handles up to 650 HP
- 4150 throttle body works with original carb-style linkage & uses all OEM sensors
- NO tuning experience or laptop needed; intuitive Setup Wizard guides you through the start-up process & the system tunes itself
- Works with any ignition setup – including HEI
- Carb replacement, dual quad, multi-port, & Jeep specific systems available
- Built-in diagnostics & “limp mode” provide maximum engine protection in the event of trouble
- Made in the USA

## Base Kit Includes:

- Engine Control Unit (ECU)
- Color Touchscreen Hand-Held Unit w/ Mount
- 650 HP-Capable Throttle Body w/ Integrated Fuel Injectors, Sensors & Rails
- Fully Mesh Wrapped Wiring Harness w/ Added Protective Fuses
- Wide-Band O<sub>2</sub> Sensor
- Installation Hardware
- Chrome EZ-EFI® Badge

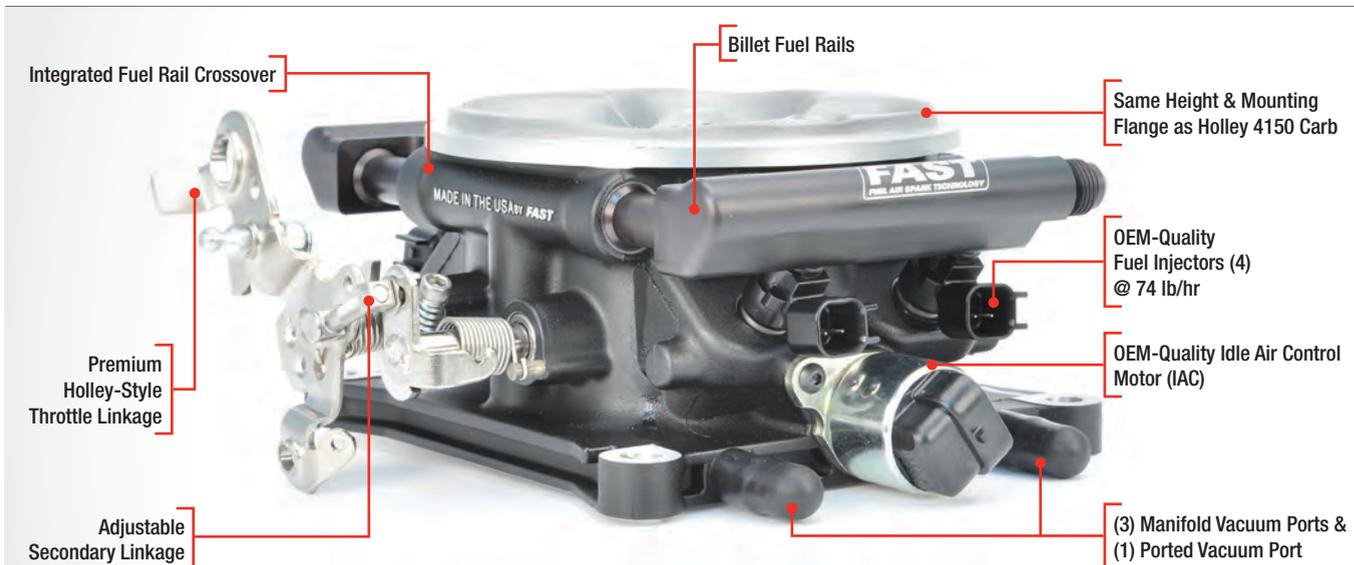


Watch  
The Video!

# EZ-EFI<sup>®</sup> FUEL COMPONENTS

## ECU

- No software necessary; intuitive self-learning system will work with only a few simple questions answered in the hand-held's Setup Wizard & one throttle screw adjustment
- Capable of driving up to eight high-impedance fuel injectors in a bank-to-bank configuration
- Utilizes the Bosch LSU 4.2 wide-band O<sub>2</sub> sensor for closed loop control of the engine's air/fuel ratios
- Built-in diagnostics for easy troubleshooting
- Can control electric fuel pump, electric cooling fan & A/C line to raise idle RPM when A/C is turned on
- Weatherproof enclosure
- Nominal dimensions: 6"W x 3.5"H x 1.5"D



## Throttle Body

- Direct bolt-on carb replacement with throttle body dimensions similar to Holley & other popular carburetors, including a Holley-style throttle linkage & 4150 square flange intake bolt pattern
- Includes injectors & fuel rails supporting up to 650 HP
- Advanced dyno-based design for proper fuel distribution in single & dual plane manifolds
- Lightweight aluminum construction
- Throttle body ships assembled with OEM-quality sensors & injectors



**Color Touchscreen Hand-Held Unit**

- Provides the only necessary interface to the ECU
- Setup Wizard guides you through start-up process
- Screens for viewing live running data
- Includes advanced tuner area where fuel can be adjusted or fine tuned for economy & best power
- Can be disconnected & stowed after initial setup



Flange-to-Flange Height = 3.25"

# EZ-EFI® FUEL KITS



#30226-06KIT

## EZ-EFI® Fuel Base Kit

Regardless of brand or engine size, the EZ-EFI® Fuel Base Kit bolts onto any 4150-style carbureted manifold, works with the original carb-style throttle linkage and includes all OEM sensors. **The EZ-EFI® Fuel Base Kit includes fuel injectors, fuel rails, a clearly labeled wiring harness, hand-held device, sensors, ECU and 4150 throttle body, which mounts onto any 4150 flange intake manifold.**

EZ-EFI® Fuel Self Tuning Fuel Injection System Base Kit

30226-06KIT

## EZ-EFI® Fuel Master Kit With In-Tank Fuel Pump Kit

The EZ-EFI® Fuel Master Kit is now also available with an In-Tank Fuel Pump Kit. This kit includes a high pressure pump that is perfect for performance applications. Always primed and automatically cooled by the fuel in the tank, the pump is easily capable of supporting fuel flow for applications with up to 650 horsepower. The fuel system parts are designed to offer as much flexibility as possible for the broadest range of applications.

EZ-EFI® Fuel Self Tuning Fuel Injection System Master Kit w/ In-Tank Fuel Pump Kit

30447-06KIT



**Best Choice For Most Setups**

#30447-06KIT

## EZ-EFI® Fuel Master Kit With Inline Fuel Pump Kit

The EZ-EFI® Fuel Master Kit With Inline Fuel Pump Kit includes all of the same components as the EZ-EFI® Fuel Base Kit but also includes an inline fuel pump kit that is able to support applications making up to 650 horsepower.

EZ-EFI® Fuel Self Tuning Fuel Injection System Master Kit w/ Inline Fuel Pump Kit

30227-06KIT



#30227-06KIT

## In-Tank vs. Inline

Inline fuel pumps are easier to install than in-tank fuel pumps because the fuel tank does not have to be removed. However, there are several advantages to running an in-tank fuel pump versus an inline fuel pump. FAST™ engineers recommend an in-tank fuel pump when possible.

### IN-TANK FUEL PUMP ADVANTAGES INCLUDE:

- Always Primed
- Runs Quieter
- Runs Cooler
- Method Used By All OEMs
- Required For Returnless Fuel Systems (EZ-EFI 2.0® Fuel + Ignition Only)

For individual fuel pump kits, see page 55.



# EZ-EFI® FUEL KITS

## EZ-EFI® Fuel Multi-Port Retro-Fit Kit

The EZ-EFI® Fuel Multi-Port Retro-Fit Kit allows owners of existing factory or aftermarket multi-port fuel injected applications to experience the benefits of an EZ-EFI® Fuel system with no limit on horsepower because the system is based on each customer's supplied injectors. The kit comes with everything needed to convert factory or aftermarket EFI systems into a complete FAST™ EZ-EFI® Fuel system.

EZ-EFI® Fuel Multi-Port Retro-Fit Kit	302000-06
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#302000-06

## EZ-EFI® Dual Quad Upgrade Kit

For more aggressive street rods and muscle cars, the EZ-EFI® Fuel Dual Quad Kit is capable of supporting 1200 horsepower engines. This system is an upgrade kit to the existing EZ-EFI® Fuel kits\* and adds several additional parts, including a second unique throttle body, harness and linkage for use with existing dual quad carburetor-type manifolds.

\* Must be used in conjunction with an EZ-EFI® Kit: #30226-06KIT, #30227-06KIT or #30447-06KIT.

EZ-EFI® Fuel Dual Quad Upgrade Kit	304155-06
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#304155-06

## EZ-EFI® Marine

FAST™ EFI systems are ready to take to the sea with the self-tuning EZ-EFI® Marine kit that features the proven performance and reliability that comes standard in all FAST™ EZ-EFI® systems. The marine system upgrades the poor cold starting and rough idle often associated with boat engines running a carburetor, while improving overall performance and drivability.

The marine option is available as a complete kit that includes a blue ECU specific to the marine application, color touchscreen hand-held, specialized O<sub>2</sub> sensor bung and a die cast 4150-style, four-injector throttle body that supports up to 650 horsepower. It easily bolts on to engines using a 4150-style carburetor while allowing users to keep running their current ignition system. Also available are kits that include an inline fuel pump kit and a special adapter plate that allows for a simple bolt-on installation in a Mercury Marine wet exhaust system without any welding (fits most applications from the early 1980s to 2002).

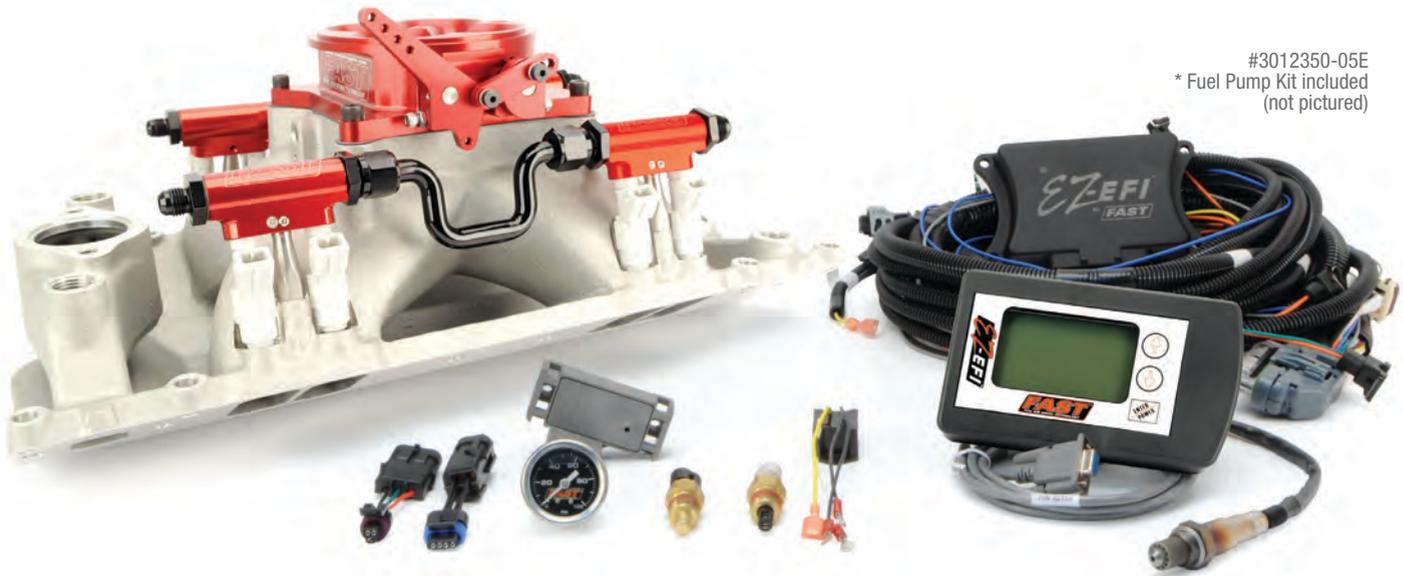
EZ-EFI® Marine Base Kit w/ Universal O <sub>2</sub> Installation Kit	30362-06KIT
EZ-EFI® Marine Master Kit w/ Universal O <sub>2</sub> Installation Kit & Inline Fuel Pump Kit	30363-06KIT
EZ-EFI® Marine Base Kit w/ Mercury Marine O <sub>2</sub> Installation Kit	30364-06KIT
EZ-EFI® Marine Master Kit w/ Mercury Marine O <sub>2</sub> Installation Kit & Inline Fuel Pump Kit	30365-06KIT



Mercury Marine O<sub>2</sub> Adapter

# EZ-EFI®

## MULTI-PORT / SIDEDRAFT FUEL INJECTION KITS



#3012350-05E  
\* Fuel Pump Kit included  
(not pictured)

### Multi-Port Fuel Injection Kits

Engineers at FAST™ have developed complete bolt-on EZ-EFI® Multi-Port Electronic Fuel Injection Kits that allow anyone to install a multi-port injection setup on Small and Big Block Chevy and Small Block Ford engines that were originally carbureted. These kits can be used on anything from mild street rods and muscle cars to 1,000 horsepower all-out race cars. EZ-EFI® Multi-Port Electronic Fuel Injection Kits include carefully matched components, including the EZ-EFI®, hand-held device, single plane EFI intake manifold, throttle body, Precision-Flow™ Fuel Injectors, fuel rails, fuel pump kit, all necessary sensors and clearly labeled wiring harnesses. These kits add style and function to any engine.

	Red Throttle Body	Polished Throttle Body
EZ-EFI® Fuel Injection Kit – SBC Up To 550 HP	3012350-05E	3012350-05EP
EZ-EFI® Fuel Injection Kit – SBC Up To 1,000 HP	3012350-10E	3012350-10EP
EZ-EFI® Fuel Injection Kit – BBC Up To 550 HP	3011454-05E	3011454-05EP
EZ-EFI® Fuel Injection Kit – BBC Up To 1,000 HP	3011454-10E	3011454-10EP
EZ-EFI® Fuel Injection Kit – BBC Tall Deck Up To 1,000 HP	3011572-10E	3011572-10EP
EZ-EFI® Fuel Injection Kit – SBF Up To 550 HP	3031302-05E	3031302-05EP
EZ-EFI® Fuel Injection Kit – SBF Up To 1,000 HP	3031302-10E	3031302-10EP
EZ-EFI® Fuel Injection Kit – 351W up to 550 HP	3035351-05E	3035351-05EP
EZ-EFI® Fuel Injection Kit – 351W up to 1,000 HP	3035351-10E	3035351-10EP

### EZ-EFI® Sidedraft Induction System

EZ-EFI® Sidedraft EFI Systems combine proven FAST™ electronic fuel injection technology with Inglese™ sidedraft styling. Designed to work with the FAST™ EZ-EFI® System that supports up to 650 hp, they give customers a value-priced alternative to buying a full eight-stack system by adapting to an existing conventional four-barrel intake manifold. These adapter manifolds feature all necessary components, including integrated sensors, fuel rails and linkage, and easily bolt on to any engine using a single or dual plane 4150 flange 4-barrel intake. EZ-EFI® Sidedraft Systems make the same power as the standard four-barrel FAST™ EZ-EFI® throttle body with no loss in drivability. They are the ideal solution for adding both EFI performance and stunning looks to any hot rod or street machine.



EZ-EFI® Sidedraft Induction System NG4087E

#NG4087E

The EZ-EFI® GM LS Engine Transplant Kits allow anyone to easily run a GM LS Gen III/IV engine and transmission outside of the original vehicle and factory controller. These FAST™ kits are the perfect no-headache solution for transplanting late model engines into street rods, muscle cars or other projects. Everything is covered, from fuel and spark to engine and electronic transmission. Optional package stages allow you to select the right level of kit based on your individual needs.



#302002L

**EZ-EFI® Engine Kit**

The Engine Kit combines the revolutionary self tuning EZ-EFI® with the bolt-on XIM™ Coil-Per-Cylinder Ignition System to provide LS applications with the easiest, most advanced self-tuning electronic fuel injection system available.

EZ-EFI® Engine Kit	302002
EZ-EFI® Engine Kit w/ In-Tank Fuel Pump	302002T
EZ-EFI® Engine Kit w/ Inline Fuel Pump	302002L



#302002-TCU

**EZ-EFI® Engine Kit with EZ-TCU™**

This kit combines the EZ-EFI® and XIM™ with the EZ-TCU™ for easy control of electronic GM 4-speed and TCI® 6-speed transmission shift points, shift firmness & shift speed, all without a laptop or tuning experience.

EZ-EFI® Engine Kit w/ TCU	302002-TCU
EZ-EFI® Engine Kit w/ TCU & In-Tank Fuel Pump	302002T-TCU
EZ-EFI® Engine Kit w/ TCU & Inline Fuel Pump	302002L-TCU

\*See pg 60 for complete information on the EZ-TCU™

# EZ-EFI® GM LS ENGINE TRANSPLANT KITS



#302003

## EZ-EFI® Engine & Manifold Kit

The Engine & Manifold Kit adds the FAST™ LSX<sub>RT</sub>™ Intake Manifold, Big Mouth Throttle Body™ and fuel rails to the Engine Kit. This kit uses advanced fuel injection technology to easily provide additional 30+ horsepower gain with show quality looks.

EZ-EFI® Engine & Manifold Kit	302003
EZ-EFI® Engine & Manifold Kit w/ In-Tank Fuel Pump	302003T
EZ-EFI® Engine & Manifold Kit w/ Inline Fuel Pump	302003L



#302003L-TCU

## EZ-EFI® Engine & Manifold Kit with EZ-TCU™

For a complete powertrain control package, the Engine & Manifold Kit with EZ-TCU™ offers the most advanced self tuning engine management system on the market today. This kit combines the EZ-EFI®, XIM™, EZ-TCU™, LSX<sub>RT</sub>™ Manifold, Big Mouth Throttle Body™ and fuel rails for full control of GM LS Gen III/IV engines and GM electronic 4-speed transmissions.

EZ-EFI® Engine & Manifold Kit w/ TCU	302003-TCU
EZ-EFI® Engine & Manifold Kit w/ TCU & In-Tank Fuel Pump	302003T-TCU
EZ-EFI® Engine & Manifold Kit w/ TCU & Inline Fuel Pump	302003L-TCU



### XDi Street HEI Distributors

The FAST® XDi Street HEI Distributor is packed with high-performance features, making it the perfect choice for any Small and Big Block Chevy engine. Featuring a powerful 6-amp ignition module that drives a custom-wound performance coil up to 50,000+ volts, it provides the hot spark needed for maximum horsepower. These distributors also come equipped with a heat-treated steel gear that is compatible with popular camshaft materials. While perfect as a drop-in, ready-to-run distributor, additional lightweight advance springs and an adjustable vacuum advance are included for those who like to custom tune for extra power and throttle response.

XDi HEI Street Distributor - Chevrolet V8 Engines	303051
XDi HEI Street ONLY - Fits Most 4-in HEI Distributors	303050
XDi HEI Street Ignition Kit - Includes Module, Coil, Rotor & Black Cap	1000-2514



### EZ-EFI® Cable Mount Kit

The EZ-EFI® Cable Mount Kit is designed to work with and allow adjustability for automatic transmission TV cables, it is also specifically marked for the unique TV cable setup of GM 700R4 transmissions. The kit, built to be more accurate and stable than generic versions found in auto supply stores, features a proper tension double spring design to ensure accurate throttle closing and maximize the performance of any FAST™ EZ-EFI® system. The adjustable geometry of the linkage kit is also specifically engineered to ensure proper wide open throttle actuation.

\* Includes all necessary hardware to install and adjust, and includes a comprehensive selection of cable mounting brackets to cover all major cables, applications and brands.

EZ-EFI® Cable Mount Kit	304147
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### EZ-EFI® Fuel Hand-Held Upgrade Kit

This kit is for the upgrade of the original EZ-EFI® hand-held unit to a color touchscreen unit and includes the hand-held, harness, harness adapter and a suction cup mount.

EZ-EFI® Fuel Hand-Held Upgrade Kit	170633-06KIT
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*When Every Detail Matters,  
FAST™ Is Always The*  
**TRUSTED CHOICE**

**& WE WORK  
WEEKENDS**  
*Saturday Tech Office  
9AM - 4PM CST.*



FUEL



AIR



SPARK



TECHNOLOGY



# EZ-EFI 2.0<sup>®</sup> Fuel + Ignition SELF TUNING FUEL INJECTION SYSTEM



#30400-KIT

**The next generation of the revolutionary self tuning EZ-EFI<sup>®</sup> has been upgraded with more features than ever before. Yet it maintains its ease-of-use that doesn't require a laptop or tuning experience.**

As with the EZ-EFI<sup>®</sup> Fuel, simply hook up the system, answer the Setup Wizard questions on the hand-held, and EZ-EFI 2.0<sup>®</sup> Fuel + Ignition tunes itself as you drive. Its eight-injector, die cast throttle body features late model OEM sensors for accuracy and durability, supports up to 1200 horsepower (the highest on the market), includes optional ignition timing control and is able to run E85 fuels while competing versions cannot. It flows more air than the first generation EZ-EFI<sup>®</sup> throttle body due to an improved inlet, while a new secondary shaft throttle stop adjustment provides even more precise idle airflow adjustment and balance.

Meanwhile, an industry exclusive and unique-to-FAST<sup>™</sup> integrated fuel pulse damper creates precise fuel control. The EZ-EFI 2.0<sup>®</sup> Fuel + Ignition also incorporates needle-bearing supported shafts instead of bushings and an integrated fuel rail design with crossover for tighter packaging. Setup includes the market's fewest connection wires, including a high quality wiring harness that is encased in a sleek mesh-type loom.

The EZ-EFI 2.0<sup>®</sup> has an updated hand-held as well, featuring the industry's first color touchscreen. Self-powered through the ECU rather than requiring an outside power source, it shares the same mounting points as the Garmin Nuvi GPS, meaning there are nearly limitless mounting options (suction cup mount is included with all kits). Serving as the Setup Wizard initially, it then becomes an electronic gauge screen. The hand-held has various advanced features including screen hide/sleep function, expanded diagnostics and data screens, plus intuitive navigation.

The FAST<sup>™</sup> EZ-EFI 2.0<sup>®</sup> Fuel + Ignition works with either generation of EZ-EFI<sup>®</sup> throttle body, multi-port systems and Inglese<sup>™</sup> throttle bodies and is compatible with multiple fuel pump options including in-tank, inline, high horsepower inline, return style and returnless style\*. Electronic fuel pressure measurement is standard on all kits, and each one works with a wet nitrous system, providing built-in nitrous timing retard and special nitrous AFR targeting. The EZ-Ignition<sup>™</sup> features an EZ-Solution<sup>™</sup> option, meaning that it can work with most common ignition systems, while precision control requires a FAST<sup>™</sup> distributor or crank trigger.

\* FAST<sup>™</sup> engineers only recommend returnless operation when using FAST<sup>™</sup> In-Tank Fuel Pump Systems.

- Higher flowing and higher HP-capable throttle body for engines making up to 1200 HP
- Maintains ease-of-use that doesn't require a laptop or previous tuning experience
- Able to run E85 fuels as opposed to competitor versions
- Fuel pulse damper creates precise fuel control
- Features market's fewest connection wires, including sleek wiring harness and mesh-type loom
- Hand-held features a color touchscreen and shares the same mounting points as Garmin Nuvi GPS for almost limitless mounting options
- ECU includes LED diagnostic feature with on-board diagnostics and EZ-Test<sup>™</sup> Indicator Lights
- Works with both EZ-EFI<sup>®</sup> or Inglese<sup>™</sup> throttle bodies and multi-port systems
- Compatible w/ multiple fuel pump options
- EZ-Solution<sup>™</sup> option to allow integration with most common ignition systems

## Base Kit Includes:

- Engine Control Unit (ECU)
- Color Touchscreen Hand-Held Unit w/ Mount
- 1200 HP-Capable Throttle Body w/ Integrated Fuel Injectors, Sensors & Rails
- Fully Mesh-Wrapped Main Harness
- Fuel Pressure Adapter Block & Sensor
- Wide-Band O<sub>2</sub> Sensor
- Installation Hardware
- Chrome EZ-EFI<sup>®</sup> Badge



1.877.334.8355

13

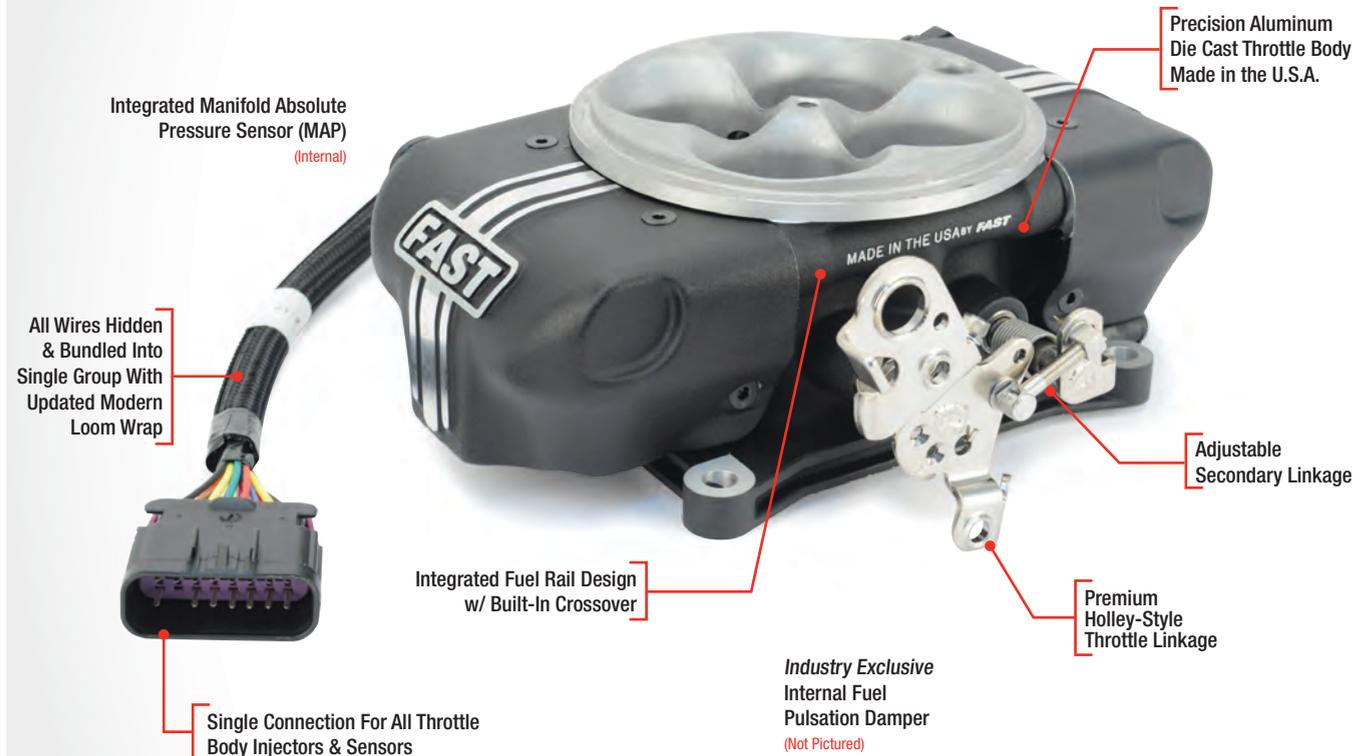
# EZ-EFI 2.0<sup>®</sup> Fuel + Ignition COMPONENTS

## ECU

- No software necessary; self-learning system works with a few simple questions answered in the hand-held's Setup Wizard & one throttle screw adjustment
- Features include on-board diagnostics for troubleshooting
- EZ-Solution™ option to work with most common ignition systems
- EZ-Ignition™ is plug & play or user tunable
- Ignition strategy uses electronic vacuum advance, idle trim and full resolution ignition curve
- Nominal dimensions: 7.5"W x 4"H x 2"D



## Throttle Body





# EZ-EFI 2.0<sup>®</sup> Fuel + Ignition COMPONENTS

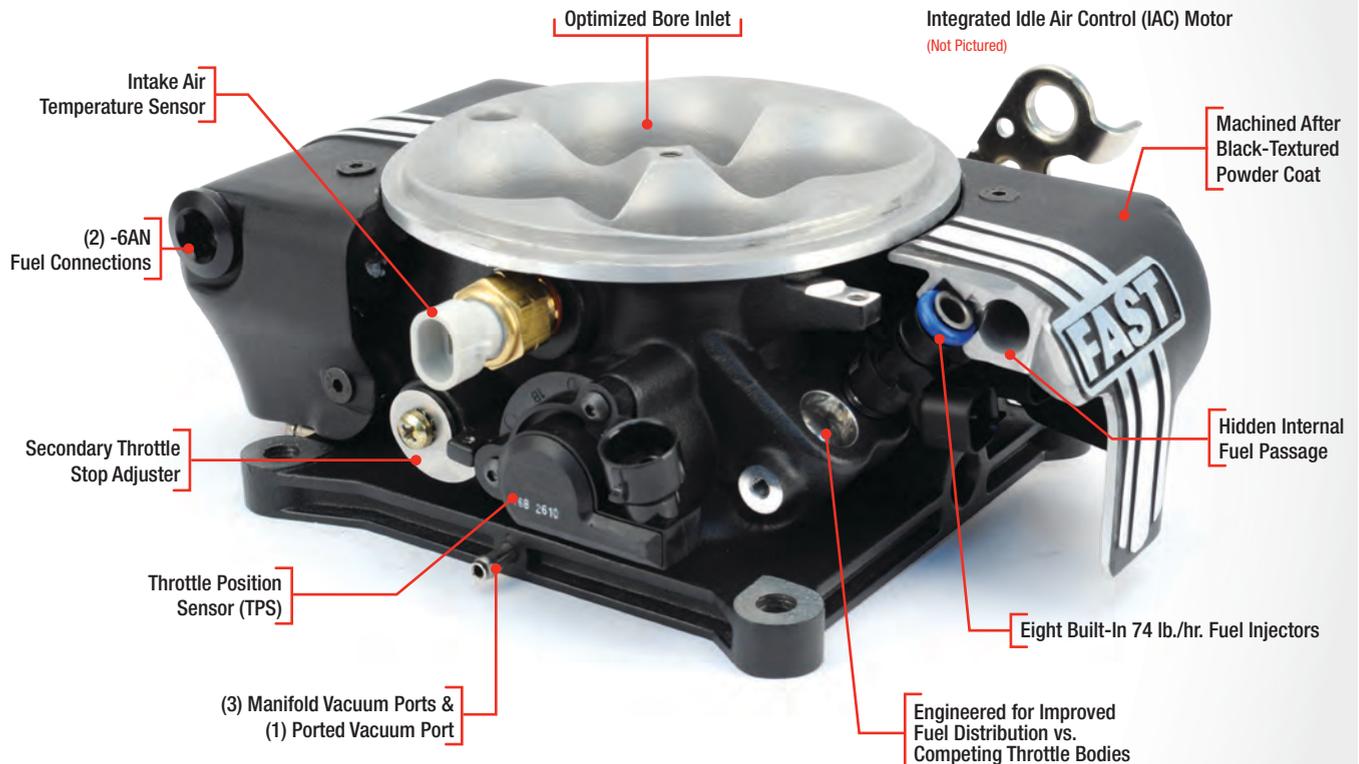


## Hand-Held Unit

- Provides the only necessary interface to the system's ECU
- Can be disconnected after initial setup
- Self-powered through ECU – no other connection necessary
- Includes screen hide/sleep function, expanded diagnostics, expanded data screens and intuitive navigation
- USB-Equipped for update and upgrade capability (not pictured)



## Throttle Body CUTAWAY VIEW



Flange-to-Flange Height = 3.25"

1.877.334.8355

# EZ-EFI 2.0<sup>®</sup> Fuel + Ignition COMPARISON

## EZ-EFI 2.0<sup>®</sup> vs. The Other Guys

See the chart below for a direct comparison between the FAST<sup>™</sup> EZ-EFI 2.0<sup>®</sup> Fuel+Ignition, MSD Atomic, Holley Terminator and Edelbrock E-Street EFI systems. A "✓" signifies that the company listed at the top of the column DOES include the particular feature listed while an "✗" signifies that it does NOT include it.

\*Information current as of October 14, 2015.

Features	FAST <sup>™</sup>	MSD	Holley	Edelbrock
<b>Horsepower Capacity Of Throttle Body</b> Determined primarily by fuel flow capacity using gasoline (E85 will be less)	1200 HP	620 HP	600 HP	600 HP
<b>Throttle Body Airflow</b> FAST <sup>™</sup> EZ-EFI 2.0 <sup>®</sup> Fuel+Ignition has unobstructed bores and a properly designed inlet bellmouth to allow for more airflow, which results in more power and efficient operation	1150 CFM	950 CFM	950 CFM	1000 CFM
<b>Progressively Staged Control Of Eight Fuel Injectors</b> FAST <sup>™</sup> EZ-EFI 2.0 <sup>®</sup> Fuel+Ignition turns on four injectors at idle and phases in all eight as fuel requirement demands, allowing one system to idle properly and still support high horsepower applications	✓	✗	✗	✗
<b>Color Touchscreen Hand-Held Included Standard</b> No laptop is required and an optimally sized hand-held makes for easy and intuitive installation. After initial setup, the hand-held makes for a color touchscreen dash (gauge cluster).	✓	✗	✗	✓
<b>Hand-Held Mounting Bracket Kit Included Standard</b> Includes suction cup and articulating mount, allowing hand-held unit to be clipped in place	✓	✗	✗	✓
<b>Diagnostic LED Lights Built Into ECU</b> FAST <sup>™</sup> EZ-EFI 2.0 <sup>®</sup> Fuel+Ignition has a full array of LEDs built in for at-a-glance diagnostics	✓	✗	✗	✗
<b>Optional Returnless Fuel Control</b> Enables a single fuel line connection with no return line or regulator necessary	✓	✓	✗	✓
<b>Hassle-Free Returnless (No Temperature Limitations Or Rubber Line Requirements)</b> Works in hot weather/temperatures and with steel fuel lines	✓	✗	✗	✗
<b>Compatible W/ Nitrous</b> Enables use of nitrous and allows user to retard timing and/or enrich fuel	✓	✓	✗	✗
<b>Capable Of Controlling Ignition Timing</b> Enables electronic and tunable control while improving idle control – the original EZ-EFI <sup>®</sup> did not include this feature	✓	✓	✓	✗
<b>Offers Plug-And-Play Distributor</b> No distributor lockout or rotor phasing required; no adapter harness required	✓	✗	✗	✗
<b>Ignition Control Works W/ Most Stock Or Aftermarket Distributors</b> Enables customer to use readily common distributors if desired	✓	✓	✗	✗
<b>Adjustable Idle Trim Ignition Control Option</b> Able to adjust idle timing control to help fine tune idle speed control	✓	✗	✗	✗
<b>Vacuum Advance Ignition Control Option</b> Able to utilize vacuum advance if desired to fine tune spark control for measured vehicle load based on MAP	✓	✓	✗	✗
<b>Standard Replacement OEM Sensors</b> Commonly available factory OEM sensors are best option	✓	✗	✓	✓



# EZ-EFI 2.0<sup>®</sup> Fuel + Ignition COMPARISON

Features	FAST™	MSD	Holley	Edelbrock
<b>Number Of Wire Connections</b> Fewer connections result in an easier install. These are the number of connections required to start the system. <i>* Timing control is not included in this number, although FAST™ EZ-EFI 2.0<sup>®</sup> Fuel+Ignition still requires fewer connections even if timing control is utilized</i>	10	11	11	17
<b>Integrated Fuel Pulse Damper</b> Smooths fuel pressure and enables better and more consistent fuel delivery for improved idle and optimum returnless fuel delivery performance	✓	✗	✗	✗
<b>Electronic Fuel Pressure Sensor</b> Reads fuel pressure full time – this is much easier than looking under the hood at a mechanical gauge	✓	✓	✗	✓
<b>CAN System For Plug-And-Play Aftermarket Gauges/Accessories</b> Compatibility with other FAST™ components, as well as aftermarket gauges	✓	✗	✓	✗
<b>Universal Multi-Port Compatibility</b> (W/ LS, TPI, Ford 5.0 & Aftermarket Port Injection Manifolds) Enables use on various engines and setups	✓	LS Only	Limited	✗
<b>Able To Update Via USB Ports W/ Included Cables</b> If updates are available, consumers are able to update easily with provided cables. No additional cards, readers or cables are required.	✓	✗	✗	✓
<b>Hand-Held Can Be Locked To Selected Gauge Screen(s) On Start-up</b> After initial setup, the hand-held unit can be set to always start on the screen selected by the user. Users can select the desired start-up screen and change it at any time.	✓	✗	✗	✗
<b>Controls One Or Two Electric Cooling Fans</b> Options are available to control fans based on coolant temperatures. If a vehicle has two fans, they can be staged for different temperatures. The original EZ-EFI <sup>®</sup> did not include this feature.	✓	✓	✓	✓
<b>Officially Tuned &amp; Compatible W/ E85</b> No guessing or tuning required – simply select E85 and fill up	✓	✗	✗	✗
<b>Single Button Switch Between Gasoline &amp; E85</b> Switch modes with one button, no tuning necessary	✓	✗	✗	✗
<b>Built-In Fuel Pump Manual Control &amp; Test Screen</b> Controls the fuel pump with the hand-held for diagnostics. Users will not have to deal with wires, relays or jumpers. Simply use the hand-held. It can be used to test the fuel system at any time.	✓	✗	✗	✗
<b>Plug-And-Play EZ-TCU™ Electronic Transmission Control Unit</b> Plug-and-play with the FAST™/TCI <sup>®</sup> EZ TCU™ and able to use the same sensors from EZ-EFI <sup>®</sup> without splicing or adding redundant wires	✓	✗	✗	✗
<b>Number Of Sensor Readouts On Single Screen</b> FAST™ EZ-EFI 2.0 <sup>®</sup> Fuel+Ignition has all sensors readable on a single master screen, which eliminates the need to scroll through various screens to read all data	21	7	6	19
<b>Adjustable Secondary Shaft On Throttle Body</b> Enables precise and individual adjustment of both throttle shafts for improved idle characteristics	✓	✓	✓	✗
<b>Matching Die Cast Valve Covers &amp; Air Cleaner Available</b> Featuring the FAST™ logo, these matching die cast and powder coated accessories complete the look	✓	✗	✗	✗

# EZ-EFI 2.0<sup>®</sup> Fuel + Ignition KITS

## EZ-EFI 2.0<sup>®</sup> Fuel+Ignition Base Kit

The EZ-EFI 2.0<sup>®</sup> Fuel+Ignition Base Kit includes the ECU, hand-held unit, throttle body, main harness, electronic fuel pressure kit and appropriate sensors. A hand-held mounting bracket kit also ships with each system.

EZ-EFI 2.0<sup>®</sup> Fuel+Ignition Self Tuning Fuel Injection System, Base Kit  
w/ 4 BBL Throttle Body (For Distributor Ignition)

30400-KIT



#30400-KIT



**Best Choice For Most Setups**

#30401-KIT

## EZ-EFI 2.0<sup>®</sup> Fuel+Ignition Master Kit w/ In-Tank Fuel Pump Kit

The EZ-EFI 2.0<sup>®</sup> Master Kit is now also available with an In-Tank Fuel Pump Kit. This kit is an EZ-EFI 2.0<sup>®</sup> Fuel+Ignition Base Kit that includes a Walbro 450 LPH high pressure pump that is perfect for performance applications. Automatically cooled by the fuel in the tank, the pump easily flows enough fuel at 60 psi to support 1200 horsepower applications and is the highest flowing volume in-tank pump currently on the market. Recommended by FAST<sup>™</sup> engineers for all returnless applications.

EZ-EFI 2.0<sup>®</sup> Fuel+Ignition Self Tuning Fuel Injection System, Master In-Tank Pump Kit  
– Return/Returnless, w/ 4 BBL Throttle Body (For Distributor Ignition)

30401-KIT

## EZ-EFI 2.0<sup>®</sup> Fuel+Ignition Master Kit w/ Inline Fuel Pump Kit

Includes everything in the EZ-EFI<sup>®</sup> Base Kit, plus a Walbro 255 LPH high pressure pump and all necessary fuel lines, fittings and regulator.

EZ-EFI 2.0<sup>®</sup> Fuel+Ignition Self Tuning Fuel Injection System, Master Inline Pump Kit  
– Return Only, w/ 4 BBL Throttle Body (For Distributor Ignition)

30402-KIT



#30402-KIT

### In-Tank vs. Inline

Inline fuel pumps are easier to install than in-tank fuel pumps because the fuel tank does not have to be removed. However, there are several advantages to running an in-tank fuel pump versus an inline fuel pump. FAST<sup>™</sup> engineers recommend an in-tank fuel pump when possible.

#### IN-TANK FUEL PUMP ADVANTAGES INCLUDE:

- Always Primed
- Runs Quieter
- Runs Cooler
- Method Used By All OEMs
- Required For Returnless Fuel Systems  
(EZ-EFI 2.0<sup>®</sup> Fuel + Ignition Only)

*For individual fuel pump kits, see page 55*



# EZ-EFI 2.0<sup>®</sup> Fuel + Ignition KITS

## EZ-EFI 2.0<sup>®</sup> Fuel+Ignition Master High Horsepower Kit w/ Inline Fuel Pump Kit

Similar to our Master Kit with Inline Fuel Pump Kit, but this includes the FAST<sup>™</sup> Race Fuel System, Part #307500, allowing it to handle performance applications making **up to 1200 HP**. The race fuel system includes fuel pump, pre-filter, post-filter, Y-block and fuel regulator, as well as the system fittings and wiring harness. Constructed of aluminum and stainless steel to ensure years of reliable service.

EZ-EFI 2.0 <sup>®</sup> Fuel+Ignition Self Tuning Fuel Injection System, Master High Horsepower Inline Pump Kit – Return Only, w/ 4 BBL Throttle Body (For Distributor Ignition)	30403-KIT
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## EZ-EFI 2.0<sup>®</sup> Fuel+Ignition Multi-Port Retro-Fit Kit

The EZ-EFI 2.0<sup>®</sup> Fuel+Ignition Multi-Port Retro-Fit Kit allows owners of existing factory or aftermarket multi-port fuel injected applications and intake manifolds to experience the benefits of an EZ-EFI 2.0<sup>®</sup> system with no limit on horsepower because the system is based on each customer's supplied injectors. Kit comes with everything needed to convert factory or aftermarket EFI systems into a complete FAST<sup>™</sup> EZ-EFI 2.0<sup>®</sup> Fuel+Ignition system.

EZ-EFI 2.0 <sup>®</sup> Fuel+Ignition Multi-Port Retro-Fit Kit (For Distributor Ignition)	30404-KIT
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## EZ-EFI 2.0<sup>®</sup> Fuel+Ignition LS Self Tuning Engine Control Kit

FAST<sup>™</sup> engineers have developed the simplest plug-and-play, self tuning engine control system on the market for LS engines. The FAST<sup>™</sup> EZ-EFI 2.0<sup>®</sup> Fuel+Ignition LS Self Tuning Engine Control Kit is the easiest way to get your LS transplant up and running without all the complex PCM flashing and harness reworking required with the stock unit. This kit features all of the advantages of the award-winning EZ-EFI 2.0<sup>®</sup> system, plus it includes the EZ-LS<sup>™</sup> Ignition Controller and utilizes stock or aftermarket LS injectors, sensors and coils. With the included ignition controller, the user can easily get running or optionally adjust timing.

EZ-EFI 2.0 <sup>®</sup> Fuel+Ignition GM LS Engine Transplant Kit (For LS Coil-Per-Cylinder Ignition)	30405-KIT
GM EZ-LS <sup>™</sup> Ignition Controller Kit	301312E



#30403-KIT

#30404-KIT

#30405-KIT

**SEE PAGE 33 FOR MORE INFORMATION.**

# EZ-EFI 2.0<sup>®</sup> Fuel + Ignition MULTI-PORT FUEL INJECTION KITS



#30412-05T

## EZ-EFI 2.0<sup>®</sup> Fuel+Ignition Multi-Port Fuel Injection Kits

FAST<sup>™</sup> also offers complete bolt-on EZ-EFI 2.0<sup>®</sup> Fuel+Ignition Multi-Port Electronic Fuel Injection Kits that allow anyone to install a multi-port injection setup on Small and Big Block Chevy and Small Block Ford engines that were originally carbureted. These kits can be used on anything from mild street rods and muscle cars to 1,000 horsepower all-out race cars. EZ-EFI 2.0<sup>®</sup> Fuel+Ignition Multi-Port Electronic Fuel Injection Kits include carefully matched components, including the EZ-EFI 2.0<sup>®</sup> Fuel+Ignition, hand-held device, single plane EFI intake manifold, throttle body, Precision-Flow<sup>™</sup> Fuel Injectors, fuel rails, in-tank or inline fuel pump kit, electronic fuel pressure kit, all necessary sensors, clearly labeled wiring harnesses and the distributor.

\* 1,000 HP Kits do NOT include fuel lines and fittings.

EZ-EFI 2.0 <sup>®</sup> Fuel Injection Kit – SBC Up To 550 HP, In-Tank	30412-05T	EZ-EFI 2.0 <sup>®</sup> Fuel Injection Kit – BBC Tall Deck Up To 1,000 HP, Inline	30411T-10L
EZ-EFI 2.0 <sup>®</sup> Fuel Injection Kit – SBC Up To 1,000 HP, In-Tank	30412-10T	EZ-EFI 2.0 <sup>®</sup> Fuel Injection Kit – SBF Up To 550 HP, In-Tank	30431-05T
EZ-EFI 2.0 <sup>®</sup> Fuel Injection Kit – SBC Up To 550 HP, Inline	30412-05L	EZ-EFI 2.0 <sup>®</sup> Fuel Injection Kit – SBF Up To 1,000 HP, In-Tank	30431-10T
EZ-EFI 2.0 <sup>®</sup> Fuel Injection Kit – SBC Up To 1,000 HP, Inline	30412-10L	EZ-EFI 2.0 <sup>®</sup> Fuel Injection Kit – SBF Up To 550 HP, Inline	30431-05L
EZ-EFI 2.0 <sup>®</sup> Fuel Injection Kit – BBC Up To 550 HP, In-Tank	30411-05T	EZ-EFI 2.0 <sup>®</sup> Fuel Injection Kit – SBF Up To 1,000 HP, Inline	30431-10L
EZ-EFI 2.0 <sup>®</sup> Fuel Injection Kit – BBC Up To 1,000 HP, In-Tank	30411-10T	EZ-EFI 2.0 <sup>®</sup> Fuel Injection Kit – 351W up to 550 HP, In-Tank	30435-05T
EZ-EFI 2.0 <sup>®</sup> Fuel Injection Kit – BBC Tall Deck Up To 1,000 HP, In-Tank	30411T-10T	EZ-EFI 2.0 <sup>®</sup> Fuel Injection Kit – 351W up to 1,000 HP, In-Tank	30435-10T
EZ-EFI 2.0 <sup>®</sup> Fuel Injection Kit – BBC Up To 550 HP, Inline	30411-05L	EZ-EFI 2.0 <sup>®</sup> Fuel Injection Kit – 351W up to 550 HP, Inline	30435-05L
EZ-EFI 2.0 <sup>®</sup> Fuel Injection Kit – BBC Up To 1,000 HP, Inline	30411-10L	EZ-EFI 2.0 <sup>®</sup> Fuel Injection Kit – 351W up to 1,000 HP, Inline	30435-10L

## EZ-EFI<sup>®</sup> Cable Mount Kit

The EZ-EFI<sup>®</sup> Cable Mount Kit is designed to work with and allow adjustability for automatic transmission TV cables, it is also specifically marked for the unique TV cable setup of GM 700R4 transmissions. The kit, built to be more accurate and stable than generic versions found in auto supply stores, features a proper tension double spring design to ensure accurate throttle closing and maximize the performance of any FAST<sup>™</sup> EZ-EFI<sup>®</sup> system. The adjustable geometry of the linkage kit is also specifically engineered to ensure proper wide open throttle actuation.

\* Includes all necessary hardware to install and adjust, and includes a comprehensive selection of cable mounting brackets to cover all major cables, applications and brands.

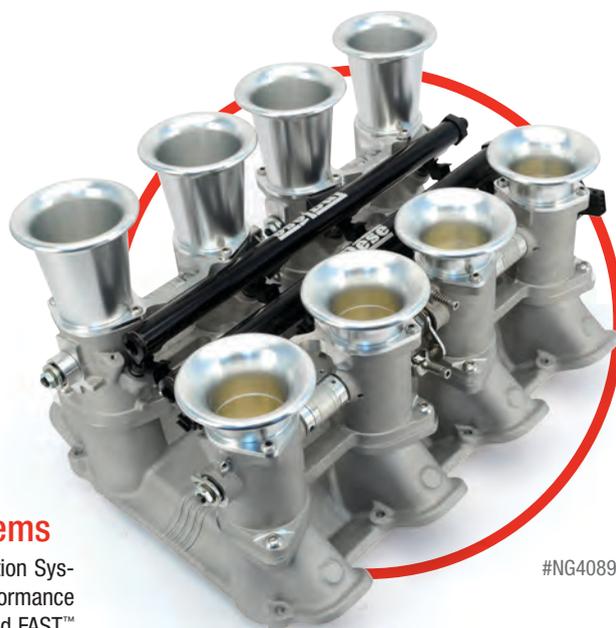


#304147

EZ-EFI <sup>®</sup> Cable Mount Kit	304147
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# EZ-EFI 2.0<sup>®</sup> Fuel + Ignition INDUCTION KITS



#NG4089E

## EZ-EFI 2.0<sup>®</sup> Fuel + Ignition 8-Stack Induction Systems

FAST™ and Inglese™ have partnered to create EZ-EFI 2.0<sup>®</sup> Fuel + Ignition Induction Systems that blend the classic stylings of Weber carburetors with the high-tech performance of electronic fuel injection. These technically advanced systems employ advanced FAST™ EZ-EFI<sup>®</sup> Fuel + Ignition electronics and our exclusive cast aluminum 50/58mm IDA-style throttle bodies. Delivering increased performance, cold starts and drivability for street rods and muscle cars with engines up to 1,000 HP, Inglese™ EZ-EFI 2.0<sup>®</sup> Fuel + Ignition 8-Stack Systems use custom-engineered, low profile fuel rails that sit below the stacks and between the throttle bodies for a much cleaner look.

### As Cast

Small Block Chevy 50mm IDA EZ-EFI <sup>®</sup> Induction System	NG4006E
GM LS w/ Cathedral Port Heads (LS1/LS2/LS6/4.8/5.3/6.0), IDA	NG4089E
GM LS w/ Rectangle Port Heads (LS3/L92/L99/L76), IDA	NG4090E
Small Block Ford 50mm IDA EZ-EFI <sup>®</sup> Induction System	NG4008E
Windsor Ford 50mm IDA EZ-EFI <sup>®</sup> Induction System	NG4010E
FE Ford 58mm IDA EZ-EFI <sup>®</sup> Induction System	NG4068E

## Complete System Includes:

- Fully Assembled 8-Stack Induction System
- Throttle Bodies
- 1.5" Tall Billet Stacks
- Chrome-Top Air Filters (Press-On Style)
- Billet Fuel Rails
- 33 lb./hr. Fuel Injectors
- Throttle Linkage
- FAST™ Self Tuning EZ-EFI 2.0<sup>®</sup> Fuel + Ignition ECU w/ Wide-Band O<sub>2</sub>
- All Necessary Wiring

## EZ-EFI 2.0<sup>®</sup> Fuel + Ignition Sidedraft Induction Systems

Inglese™ Sidedraft EFI Systems combine proven FAST™ electronic fuel injection technology with radical Inglese™ sidedraft styling. Designed to work with FAST™ EZ-EFI 2.0<sup>®</sup> Fuel + Ignition Systems, they give customers a value-priced alternative to buying a full eight-stack system by adapting to an existing single or dual plane 4150 flange four barrel intake manifold. The Inglese™ Sidedraft system offers radical styling and excellent drivability for engines making up to 650 HP. The Inglese™ Dual Sidedraft system offers even more radical styling and power. They are the ideal solution for adding both EFI performance and stunning looks to any hot rod or street machine.

EZ-EFI 2.0 <sup>®</sup> Fuel + Ignition Sidedraft Induction System	NG4088E
EZ-EFI 2.0 <sup>®</sup> Fuel + Ignition Dual Sidedraft Induction System	NG4088DSE



#NG4088E

**Inglese**

Call Inglese™ toll free at 1.866.450.8089 or visit [inglese.com](http://inglese.com) to order your custom system.

1.877.334.8355

# A NEW ERA IN IGNITION

*With A Full Line Of Components  
From The Trusted Leader In EFI Technology*

Ask About Our  
New Ignition Catalog



IGNITION



DISTRIBUTORS



COILS

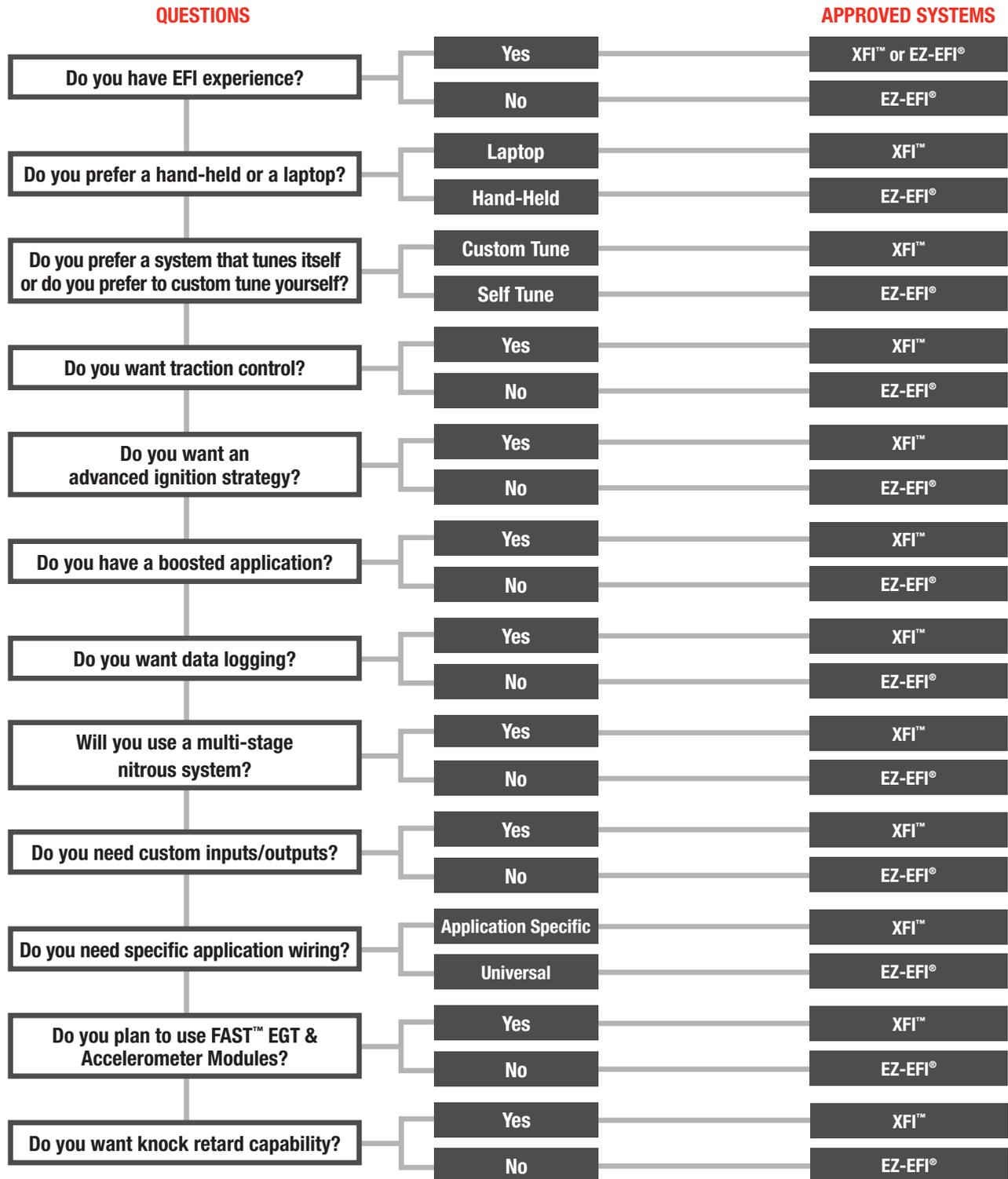


PLUG WIRES



# XFI™ & EZ-EFI® WHICH IS RIGHT FOR ME?

Which EFI system is right for you? If you're unsure whether or not you need to choose one of the FAST™ EZ-EFI® Self Tuning Systems or one of the more advanced XFI™ Systems, answer the questions below to help determine which type of FAST™ EFI system is the best choice for you.



If you choose to use an EZ-EFI® system, see page 2 for further help selecting the proper system. If you choose to run an XFI™ system, see pages 24-25 to select the correct setup.

For more advanced tuners, FAST™ offers both the XFI 2.0™ and XFI Sportsman™ Fuel Injection Systems. Use the chart below to determine the features you need for your application, and then select the system that is best suited for you based on the corresponding “✓” or “✗”.

Features	XFI 2.0™	XFI Sportsman™
Internal Datalogging	✓	✓
Laptop Datalogging	✓	✓
Supports Boosted Applications	✓	✓
Boost Control	✓	✗
Wet Nitrous Application	✓	✓
Dry Nitrous Application	✓	✗
Multi-Stage Nitrous Control	✓	✗
Progressive Nitrous Control	✓	✗
Gasoline Or E85 Fuel	✓	✓
Methanol	✓	✓
Plug-And-Play CAN Communication for Optional Accessories – EZ-TCU™, XIM™, EZ-LS™ and XFI™ eDash	✓	✓
Plug-And-Play CAN Communication for Optional Accessories – EGT Module, Accelerometer Module, 3rd Party Gauges, Racepak, Dash/Data Logger	✓	✗
Compatible w/ FAST™ Dual-Sync & MSD Inductive Pickup Distributors, As Well As FAST™ Or MSD Crank Triggers	✓	✓
Compatible w/ Coil-Per-Cylinder Applications When Used With FAST™ XIM™ Or EZ-LS Ignition Modules	✓	✓
Advanced Ignition Capability – Buick DIS, GM HEI, Ford Thick Film, GM Optispark	✓	✗
Standard Ignition Compatibility – 2x, 3x, 4x IPU & Discrete	✓	✓
Patented Transbrake Creep Control	✓	✗
Intelligent Traction Control	✓	✗
Sequential Fueling Capability	✓	✗
Individual Cylinder Corrections	✓	✗



Features	XFI 2.0™	XFI Sportsman™
Multi-Stage Rev Limiters	✓	✗
Store Multiple Tunes Onboard	✓	✗
Low Impedance Injectors	✓	✗
High Impedance Injectors	✓	✓
RS-232 Serial Communication Compatible	✓	✗
USB Compatible	✓ (Adapter Included)	✓
Knock Retard Capability	✓	✗
AC & TCC Clutch Control	✓	✗
NTK Wide-Band O <sub>2</sub>	✓	✗
Bosch Wide-Band O <sub>2</sub>	✗	✓
Application Specific Harnesses	✓	✗
Universal Harness	✓	✓
Adaptive Learning	✓	✓
Proven C-COM Software	✓	✓
Scaleable 3D Fuel & Spark Tables	✓	✓
Load Indexed Speed Density Fueling Strategy for Accurate Fueling At All Elevations	✓	✓
Compatible with FAST™ XFI™ eDash	✓	✓
Remote Internet Tuning	✓	✓
Custom Programmable Digital Output	✓ (4 Available)	✗
Digital Inputs	✓ (8 Available)	✓ (1 Available)

# XFI Sportsman™ ENGINE MANAGEMENT SYSTEM

NOW FEATURES  
INTERNAL DATA LOGGING



Scan For Demo Video  
of C-Com® Software

### Base Kit Includes:

- Waterproof ECU
- Wide-Band O<sub>2</sub> Sensor
- Multi-Port Wiring Harness
- Fuel Pressure Sensor Kit
- C-Com® Software

## XFI™ Sportsman Engine Management System

Designed for muscle car, late model street and sportsman drag racing engines, along with boosted and individual runner throttle body applications, the FAST™ XFI™ Sportsman Engine Management System is a bank-to-bank, fully software-tunable EFI setup. It requires a laptop for tuning and uses FAST™ C-Com® software, which comes packaged along with the necessary USB connectivity cable. A user-configurable auxiliary input channel is included as well. The system offers both load-indexed Speed Density or Alpha-N fuel strategies; most users will use Speed Density but the Alpha-N option is specifically added to serve sportsman drag racers looking for absolute consistency.

The FAST™ XFI™ Sportsman System features full tables to monitor fueling, acceleration fuel, timing and air/fuel targets, while full function data logging is also included. It supports both naturally aspirated and boosted applications up to 5 BAR, is compatible with wet nitrous and has nitrous timing retard control. Built-in CAN network support for the EZ-TCU™, EZ-LS™ and XIM™ means users can easily plug and play those components with the included CAN wire. The FAST™ XFI™ Sportsman Engine Management System also features a Bosch wide-band O<sub>2</sub> sensor, utilizes built-in diagnostic LEDs, a waterproof ECU enclosure and includes a premium, mesh-type, wire loom multi-port harness.

Compatible with return and returnless fuel systems, XFI™ Sportsman is designed for use with high-impedance injectors, and works with a variety of multi-port systems or either generation of the FAST™ EZ-EFI® throttle body. XFI™ Sportsman is configurable to work with FAST™ distributors, FAST™ crank triggers, EZ-LS™, XIM™ or the RPM/tach signal from an aftermarket CD ignition box, XFI™ eDash, HEI big cap distributor or included tach adapter.

XFI Sportsman™ EFI System	303000
XFI Sportsman™ EFI System w/ 4150 Throttle Body	303001

*Kit now available w/ 4150  
8-injector throttle body.*

- **Easy-to-use programmable & custom-tunable unit fits perfectly between EZ-EFI 2.0® & XFI™ segments**
- **Utilizes FAST™ C-COM® software – comes packaged along w/ necessary USB connectivity cable**
- **Utilizes Speed Density & Alpha-N fuel strategies; Alpha-N included just for sportsman drag racers**
- **Features Internal Data Logging, as well as full tables to monitor fuel**
- **Supports N/A & boosted applications up to 5 bar, works w/ nitrous & features nitrous timing retard control**
- **CAN network support for EZ-TCU™, EZ-LS™ & XIM™ for plug & play w/included CAN wire**
- **Compatible w/ multi-port systems & either generation EZ-EFI® throttle body**
- **Designed for muscle car, late model, boosted, individual runner throttle body & sportsman racing engines**
- **Nominal dimensions: 7.5"W x 4"H x 2"D**



# XFI Sportsman™ ENGINE MANAGEMENT SYSTEM



NOTE: Photos shown are representative of usage only. Air hat & blower not included.

## XFI Sportsman™ Blow-Through Supercharger EFI System

Blow-through applications that are traditionally carbureted now have the option to utilize an EFI setup. This XFI Sportsman™-based system replaces the carburetor with an easy-to-install EZ-EFI 2.0™ throttle body. It supports up to 15psi of boost and 1000 horsepower on gasoline, making it twice as powerful as any other single throttle body blow-through product on the market today.

The eight-injector, die cast throttle body features late model OEM sensors for accuracy and durability and includes ignition timing control. A secondary shaft throttle stop adjustment provides extremely precise idle airflow adjustment and balance.

XFI Sportsman™ Blow-Through Supercharger EFI System 303001BT

### Kit Includes:

- XFI Sportsman™ ECU
- EZ-EFI 2.0® Fuel + Ignition Throttle Body w/ TPS, 74# Injectors, 2 BAR MAP Sensor, Intake Air Temp Sensor and IAC
- Wide-Band O<sub>2</sub> Sensor
- Throttle Body Wiring Harness
- Fuel Pressure Sensor Kit
- C-Com® Software

## XFI Sportsman™ Roots Blower Dual Quad EFI System

A complete EFI system for a 2x4 blower setup is now available in one part number. This kit is designed to replace outdated carburetor technology on top of a Roots-style blower in either street or strip vehicles. It includes two EZ-EFI® Fuel four-barrel throttle bodies, with the rear version including TPS and IAC sensors. Each throttle body has four 74lb./hr. injectors. The system includes all necessary sensors, Internal Data Logging and C-Com software. It supports up to 15psi of boost and 1000 horsepower at the crank on gasoline..

XFI Sportsman™ Roots Blower Dual Quad EFI System 303002RB

### Kit Includes:

- XFI Sportsman™ ECU
- (2) EZ-EFI® Fuel Throttle Bodies w/ TPS, 74# Injectors, and IAC
- External 2 BAR MAP Sensor
- External Intake Air Temp. Sensor
- Wide-Band O<sub>2</sub> Sensor
- Multi-Port Wiring Harness
- Fuel Pressure Sensor Kit
- C-Com® Software

# XFI 2.0™ FUEL INJECTION SYSTEMS



Compatible with all common ignition types, including GM HEI, LT1, LS1, -2, -6, -7 DIS, Ford EDIS (4.6L & 5.4L), and Chrysler 5.7L, 6.1L Hemi applications.

FAST™ engineers designed the revolutionary XFI 2.0™ with improved and expanded functions, capabilities and adjustability. In addition, they upgraded the user interface for power adders, including advanced forced induction, progressive controllability and other advanced racing specific strategies and features. Faster processing means no more flat spots in the power curve or settling for “close enough.” With a cutting edge self tuning option, this is the one EFI system with easy-to-use features and completely configurable capabilities that accurately balances fuel and spark, allowing you to fine tune and precisely control like never before.

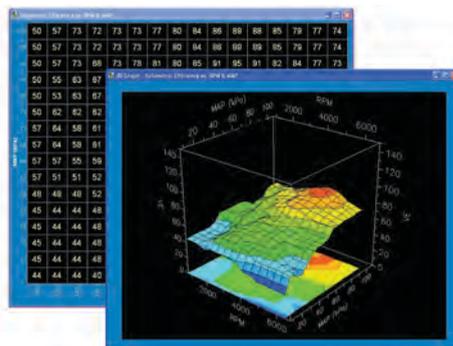
## Advanced Forced Induction, Power Adder & Race Controls

The Advanced Forced Induction, Power Adder and Race Controls include two separate, fully programmable sequential rev limiters for staging or boost building with six options for activation, four priority assignments and a user selectable sequential or random mode for rev limiting. The Advanced Forced Induction Controls include a time based boost controller, user selectable fixed VE and/or fixed timing for boost building and staging repeatability. Expanded Progressive Power Adder Controls include configurations for both wet or dry applications; separate tables for power adder solenoid control and fuel control for perfect dry power adder tuning; user adjustable solenoid pulse frequency for optimum solenoid controllability; choice of fixed target air/fuel or standard air/fuel table for correction; and a dry power adder fuel delay in milliseconds for correcting rich spikes on activation. No other system matches the power and adjustability of XFI 2.0™.

## Self Learning Auto Tuning VE Table\*

The Self Learning Auto Tuning VE Table is an automated process option that makes for quick and easy fuel mapping with the XFI 2.0™. However, this option can be turned off should the user prefer to do the tuning manually. The self learning mode can also be used to speedily and accurately populate a base tune and then turned off for more fine tuning or custom control by the user – it’s all up to you when and how you want to use it. The C-Com® software features enable conditions to turn it on/off automatically and also has an overall enable/disable feature.

\* XFI 2.0™ C-Com® software requires suitable PC computer for use.



The VE table is shaped & refined by self learning capabilities.



XFI 2.0™ features are now standard on all newly purchased XFI™ units; an inexpensive XFI 2.0™ firmware upgrade can also be purchased to update your existing XFI™ without the expense of purchasing a completely new system. Call 1.877.334.8355 or visit [www.fuelairspark.com](http://www.fuelairspark.com) for more information. Updated covers are also available.



# XFI 2.0™ FUEL INJECTION SYSTEMS

## Hardware

The XFI 2.0™ uses the latest in flash microprocessor technology to deliver a significantly faster processing speed. It processes, analyzes and adjusts four times faster than previous EFI systems. In addition, a surface mount component circuit board and billet ECU enclosure give the XFI 2.0™ superior durability. To simplify installation, FAST™ offers engine-specific wiring harnesses with clearly labeled connections.

## Software Advances

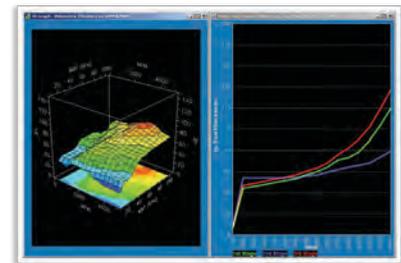
The C-Com® XFI™ Windows-based software is easy to navigate and incorporates field-flashable capabilities that enable you to download the latest software updates via email or directly from the FAST™ website. Your system will stay current without ever needing to remove the XFI 2.0™ from your vehicle.

XFI 2.0™ provides a host of upgrades including individual cylinder correction referenced to RPM. This feature allows for very fine cylinder-by-cylinder tuning of an engine throughout its entire RPM band. Dynamic Fuel Pressure Correction also allows for user-enabled correction for fuel pressure changes in real time. XFI 2.0™ includes the added ability to interface with the cost-effective FAST™ EZ-LS™ Ignition Controller, while comprehensive, user-programmable dwell settings for EZ-LS™ and XIM™ applications allow the user to finely tune the dwell time to match the ignition coils that are being used. Other spark features include increased resolution for power adder ramp retard, a timing offset table supporting alternative fuels by their Fuel Energy Constant and a high-RPM, spark-cut rev limiter.

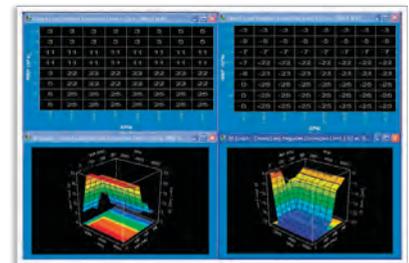
XFI 2.0™ provides a second communication port to allow for simultaneous use of the FAST™ XFI™ eDash and C-COM® software, while new calibration parameters are designed to initiate a minimum oil pressure shutdown. In addition, a dedicated real-time baro sensor supports live corrections of barometric pressure for altitude changes. Finally, the progressive power adder fuel and nitrous solenoid duty cycles have been merged into one table to allow for more convenient tuning.

## Technology

The XFI 2.0™ features Qwik Tune™ Technology that allows ECU programming without a laptop. Preprogram up to four different EFI MAPs. You can optimize one setting for everyday driving, others for racing conditions and still another for improved fuel economy. Simply select the tune-up you need with the flip of an in-car switch. Other features include on-board diagnostics, EZ Test™ Indicator Lights, 5 bar MAP sensing and controls for your power adder and torque converter.



Easy-to-navigate C-Com XFI™ software contains the advanced features demanded by professionals, yet allows first-time EFI users to tune with confidence.



## Standard Features

- Built-in wide-band O<sub>2</sub> sensor
- Fully sequential and/or bank-to-bank capability
- Individual cylinder correction
- Fan and fuel pump control
- Dynamic scaling of vectors in 2D & 3D tables
- Scalable TPS, air temp, water temp & calibrations
- 1, 2, 3 and 5 bar capability
- Spare definable inputs/outputs for auxiliary fan control, EGT monitoring, etc.
- Torque converter lock-up control
- Air conditioning wide-open throttle cutout
- Boost control
- Enhanced 4 stage power adder controls
- Multiple calibration stored in ECU w/ switching capability
- L-key function for easy steady-state table correction using wide-band
- On-board diagnostics
- Fuel and oil pressure logging
- Adjustable injector timing
- Adjustable battery voltage injector opening correction table
- Fixed timing test mode for easy verification of ignition timing accuracy
- Spark vs. coolant temp offset table
- Configurable target air/fuel offset table vs. coolant temp table: more accurate warm-up enrichment
- Selectable safety feature deactivates power adders in event of fault code
- Automatic and manual TPS calibration modes
- Additional transbrake control features
- Improved on-board diagnostics
- Nominal dimensions: 8.25"W x 5.25"H x 1.5"D

# XFI 2.0™ FUEL INJECTION SYSTEMS

## Option Features

### Internal Data Logging (IDL)

The internal memory-based data logging option provides comprehensive data from all vehicle sensors and powertrain controllers. IDL allows recording of up to 24 input channels and sensors to instantly assemble a comprehensive, real-time picture of exactly what is going on under the hood of your vehicle. Newly expanded controls feature a separate arming input option. It doesn't require additional hardware and is an affordable option compared to purchasing an external data logger.

### Intelligent Traction Control™ (ITC)

Intelligent Traction Control™ solves the problem of lost traction that results from trying to put too much engine power to the ground with too little tire by using state-of-the-art predictive software in conjunction with the most sophisticated electronics in the industry. The feature includes user adjustable delay to ignore erroneous starting line activation data and separate output wire activation upon ITC triggering. Intelligent Traction Control™ is not legal in all sanctioning bodies/classes; check your rulebook before ordering this upgrade.

### 16 Injector Option

The 16 injector option is available for already existing XFI™/XFI 2.0™ units by sending in your engine control unit and also for brand new XFI™ purchases. This allows the XFI 2.0™ injector drivers to operate up to 16 injectors and includes the injector Y adapter.



16 Injector Harness

### XFI 2.0™ Marine

Specifically designed for marine applications, the XFI 2.0™ Marine features a waterproof housing and several system upgrades engineered specifically to maximize the power potential of a boat engine.

- ECU is o-ring and conformally sealed for marine use
- User defined pressure and temperature alarm sets off sirens, lights or any other preferred alert when problems arise
- Upgraded user interface for power adders including advanced forced induction and progressive controllability
- Revolutionary self tuning option combines easy-to-use features and completely configurable capabilities
- Nominal dimensions: 8.75"W x 5.5"H x 1.5"D



## COMPLETE OR CUSTOM?

Choose a complete XFI 2.0™ kit for your application OR buy individual components specifically designed to work together to customize your own system.

COMPLETE XFI 2.0™ SYSTEMS  
ON PG 31

**-OR-**

INDIVIDUAL COMPONENTS  
BEGIN ON PG 32



# XFI 2.0™ ELECTRONIC FUEL INJECTION KITS



#3012350-10

## XFI 2.0™ Electronic Fuel Injection Kits

FAST™ offers bolt-on XFI 2.0™ Kits to install fully sequential EFI on Small and Big Block Chevy and Small Block Ford engines from mild street rods to 1000 HP all-out race cars. XFI 2.0™ Fuel Injection Kits include carefully matched components, including the XFI 2.0™, Dual-Sync Distributor, a single plane aluminum intake manifold, 4 barrel throttle body, proper size Precision-Flow™ Fuel Injectors, aluminum fuel rails, fuel pump kit, all necessary sensors, professional quality wiring harnesses with labeled connectors and the FAST™ EFI Installation & Tuning DVD.

\* Kits may vary by application. Call for specific kit contents.

**Notes:** Minor machine work or clearancing to the intake manifold may be required, depending on the cylinder heads used. Naturally aspirated horsepower figures.

	Red Throttle Body	Polished Throttle Body
XFI 2.0™ Kit – SBC Up To 550 HP	3012350-05	3012350-05P
XFI 2.0™ Kit – SBC Up To 1,000 HP	3012350-10	3012350-10P
XFI 2.0™ Kit – BBC Up To 550 HP	3011454-05	3011454-05P
XFI 2.0™ Kit – BBC Up To 1,000 HP	3011454-10	3011454-10P
XFI 2.0™ Kit – BBC Tall Deck Up To 1,000 HP	3011572-10	3011572-10P
XFI 2.0™ Kit – SBF Up To 550 HP	3031302-05	3031302-05P
XFI 2.0™ Kit – SBF Up To 1,000 HP	3031302-10	3031302-10P
XFI 2.0™ Kit – Ford Windsor Up To 550 HP	3035351-05	3035351-05P
XFI 2.0™ Kit – Ford Windsor Up To 1,000 HP	3035351-10	3035351-10P

## EFI Crate/Transplant Engine Management Kits

For owners of fuel injected crate/transplant engines, FAST™ presents a solution to allow easy conversion to aftermarket EFI for late model GM and Chrysler engines. Kits are tailored to perfectly match the specific brand and model of crate engine being converted and include a FAST™ XFI 2.0™ system, an XIM™ Ignition Module, cable-driven 92mm high-flow throttle body, and all necessary plug and play wiring.

- Kit allows easy conversion to more powerful aftermarket EFI for late model GM and Chrysler applications
- Includes XFI 2.0™, XIM™ Ignition Module, cable-driven throttle body and all necessary wiring
- Provides flexibility to precisely tune your engine for performance upgrades using aftermarket components

EFI Crate/Transplant Kit For GM LS1/LS6	301009 <sup>1</sup>
EFI Crate/Transplant Kit For GM LS2 – 2005 Only	301010
EFI Crate/Transplant Kit For GM LS2/LS3/LS7 – 2006 & Up	301011

<sup>1</sup> Part #301009 does not include throttle body.



#301010

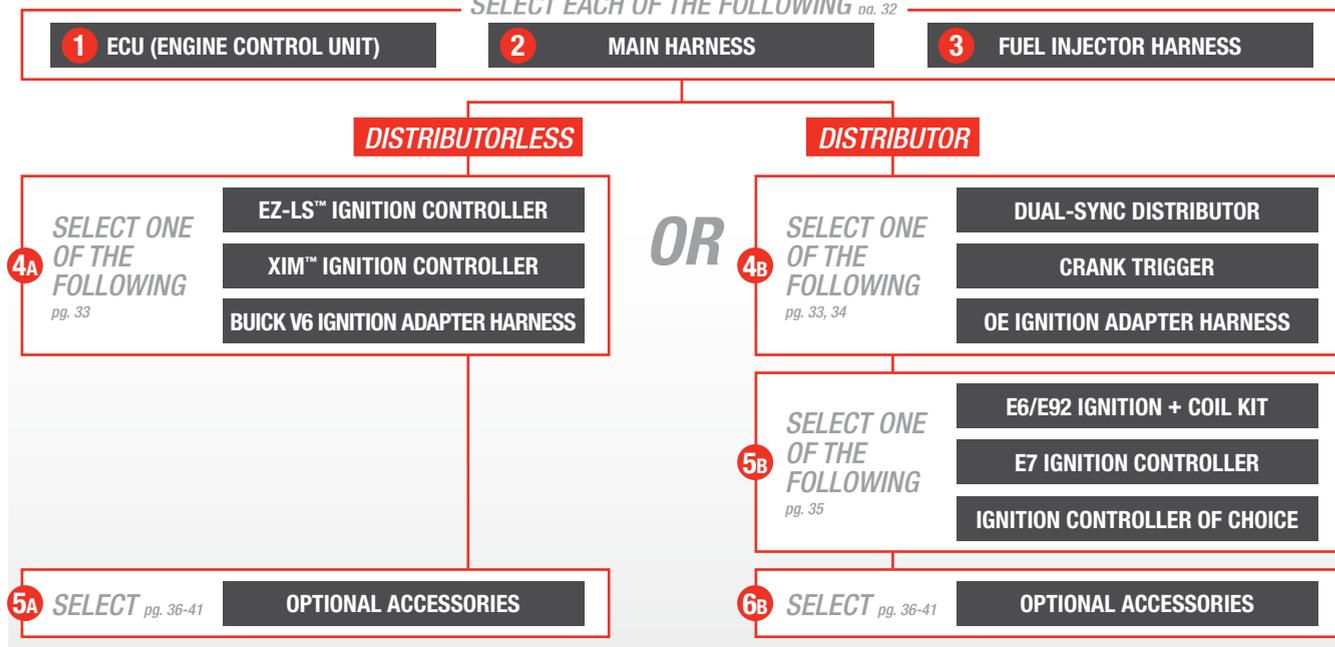
EFI Crate/Transplant Kit For Chrysler 5.7L Hemi	301012
EFI Crate/Transplant Kit For Chrysler 6.1L/6.4L Hemi	301013
EFI Crate/Transplant Kit For Ford 5.0 4V Modular	301014

\* Kit contents may vary by application. Call for specific kit contents.

# XFI 2.0™ BASE COMPONENTS

**HOW TO ORDER AN XFI™ 2.0 SYSTEM:** Answer each question below for help deciding the best setup for your needs.

SELECT EACH OF THE FOLLOWING pg. 32



## 1 XFI 2.0™ ECU (Engine Control Unit)\*

XFI 2.0™ ECU	301000
XFI 2.0™ ECU (For 16 Injectors Including Fuel Injector Y Adapter)	301001
XFI 2.0™ ECU w/ Internal Data Logging	301003
XFI 2.0™ ECU w/ Internal Data Logging (For 16 Injectors Including Fuel Injector Y Adapter)	301004
XFI 2.0™ ECU w/ Intelligent Traction Control™	301005

\* All XFI 2.0™ ECUs include (1) NTK O<sub>2</sub> sensor.

XFI 2.0™ ECU w/ Intelligent Traction Control™ – Black ECU (For 16 Injectors Including Fuel Injector Y Adapter)	301006
XFI 2.0™ ECU w/ Internal Data Logging & Intelligent Traction Control™ – Black ECU	301007
XFI 2.0™ ECU w/ Internal Data Logging & Intelligent Traction Control™ (For 16 Injectors Including Fuel Injector Y Adapter) – Black ECU	301008
XFI 2.0™ Marine ECU – Blue ECU	301015

## 2 XFI 2.0™ Main Harnesses

GM TPI	301100
GM LT1/Carb Conversion	301101
GM LS1, -2, -3, -6, -7, -9, Trucks	301108
Chrysler 5.7L, 6.1L, 6.4L Hemi	301104

Universal (Flying Lead Harness w/ Weatherpack Connectors)	301105
Rear Engine Dragster/Boat (Short Main Lead)	301106
ECU Main Connector Kit (Connectors Only, No Wires)	301000K

## 3 XFI 2.0™ Fuel Injector Harnesses

	Firing Order	Injector Type Connector*	
SBC, BBC, LT1	18436572	Minitimer	301200
Small/Big Block Chevy (4/7 Swap Cam)	18736542	Minitimer	301201
GM Gen III LS1, LS6 (See Injector Type for Proper Selection)	18726543	Minitimer	301202
GM Gen III LS2, LS3, LS7 (See Injector Type for Proper Selection)	18726543	USCAR	301209
Ford 5.0L Coyote	15486372	USCAR	301210
Ford 4.6L, 5.0L, 5.4L, 5.8L	13726548	Minitimer	301203
Ford 289, 302, FE, 429, 460	15426378	Minitimer	301204
Chrysler (Except 5.7L, 6.1L)	18436572	Minitimer	301200
Chrysler 5.7L, 6.1L, 6.4L Hemi	18436572	USCAR	301208
Y Adapter For Multiple Injector Applications	NA	NA	301205
Buick V6	165432	Minitimer	301206
4 Cylinder (Partially Completed Harness)	User Determined	Minitimer	301207

\* See pg. 43 for details.

# XFI 2.0™ BASE COMPONENTS



## 4A EZ-LS™ Ignition Controller

With simplified wiring and tuning flexibility, the EZ-LS™ delivers proven ignition control for LS engine swaps. It works perfectly with EZ-EFI 2.0® Fuel+Ignition XFI 2.0™ and XFI Sportsman™, and utilizes a simplified plug-and-play wiring harness and compact, waterproof ECU. This kit is engineered to use stock LS crank and cam sensors and doesn't require tuning. For those that desire greater tuning control, the EZ-LS™ can be custom-tuned via the EZ-EFI 2.0® hand-held or XFI™ C-Com® software connected to an XFI 2.0™ system.

\*Works with all 1997-Current GM coil-near-plug ignition systems and both 24x/58x tooth retractor wheels. Not compatible with LS truck-finned coils. Wiring harness included. Requires use of EZ 2.0™, XFI 2.0™, or XFI Sportsman™. (Does NOT work with original EZ-EFI™ or carburetors)

EZ-LS™ Ignition Controller Kit w/ Harness	301312E
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## XR-1A High-Output Ignition Coil Set

The XR-1A High-Output Ignition Coil Set is designed specifically for high-compression naturally aspirated, boosted or nitrous-equipped applications making more than 1,000 horsepower. The spark energy of these coils is comparable to CDI (capacitive discharge ignition) systems without the need to convert. The Smart Coil design requires no ignitor module. It delivers up to 44,000 volts, 103mJ of energy, and supports a maximum of 19 amps of current and 17 volts. Works with all OEM equipment, as well as FAST™ products that support coil-near-plug applications. Able to be used in coil per cylinder applications.

Set of (8) Coils w/ Connectors	30260-T8
Set of (8) Coils ONLY (No Connectors)	30260-8
Single Coil w/ Connector	30260-T1
Single Coil ONLY (No Connector)	30260-1

## 4A XIM™ Ignition Controller

(Connector Kits Consist Of Connectors, Terminals & Seals Only – No Wires)

The XIM™ Ignition Module lets you easily install the EZ-EFI 2.0® Fuel+Ignition, XFI 2.0™ or XFI Sportsman™ on many distributor-less ignition-type EFI engines. It's a simple plug-and-play installation with factory type connectors that plug into your factory sensors. Also available are standalone ignition modules for coil-per-cylinder carb applications or original EZ EFI™ that enable programmable control of the late model coil-per-cylinder ignition systems, independent of the fuel delivery method or any factory computer. Nominal dimensions: 7.25"W x 6"H x 2"D.

	Kits*	Standalone**
XIM™ Ignition Module (No Harness)	305008	–
GM LS1/LS6 XIM™ Kit w/ Harness	301311	3013112
GM LS2/LS3/LS7 XIM™ Kit w/ Harness	301312¹	3013122
GM LS1/LS2/LS3/LS6/LS7 XIM™ Connector Kit	301311K¹	–
Ford 5.0 Coyote Coil-On-Plug XIM™ Kit w/ Harness	301317	3013172
Ford Modular Coil-On-Plug XIM™ Kit w/ Harness	301313	3013132
Ford Modular Coil-On-Plug (Includes XIM™) Alternate Coil Option	301313A²	–
Chrysler 5.7L EFI Hemi XIM™ Kit w/ Harness	301316	3013162
Chrysler 5.7L EFI Hemi XIM™ Connector Kit	301316K	–
Chrysler 6.1L EFI Hemi XIM™ Kit w/ Harness	301314	3013142
Chrysler 6.1L EFI Hemi XIM™ Connector Kit	301314K	–
Universal XIM™ Connector Kit	301315K	–
LS2, LS7 Cam Pickup Adapter Harness	301415	–
LS2, LS7 Crank Pickup Adapter Harness	301416	–
GM Gen III/IV L92 Truck-Style Coil	30256-8¹	–

\* For use w/ EZ-EFI 2.0®, XFI 2.0™, XFI Sportsman™  
 \*\* For use w/ original EZ-EFI® or carb applications

¹ Includes #301145 & #301416.  
 ² Must use part #30256-8.

## 4B XFI 2.0™ Ignition Adapter Harnesses & Connector Kits

(Connector Kits Consist Of Connectors, Terminals & Seals Only – No Wires)

These adapters allow a common ECU and main harness to adapt to a wide variety of ignition strategies.

	Complete Harness	Kits
Inductive Pick-Up (IPU – 2-wire MSD-Type Distributor or Crank Trigger)	301300	301300K
Hall Effect	301301	301301K
4A Buick V6 (Early)	301307	NA
GM HEI	301302	301302K
GM LT1 (Long Connector)	301304	NA
Ford TFI	301308	301308K

# XFI 2.0™ BASE COMPONENTS

**MADE  
IN USA**



#305007

## 4B XDi Dual-Sync Distributors

FAST™ XDi Dual-Sync Distributors are an easy, drop-in, plug-and-play solution for fully sequential high performance V8 EFI engine applications. Featuring reluctors and pick-ups that have been properly aligned right out of the box, they eliminate the need to set crankshaft reference angles or manual rotor phasing before installation. FAST™ Dual-Sync Distributors also feature housings that are CNC-machined from high-quality 6061-T6 billet aluminum. Using high output magnetic pick-ups to generate high capacity, noise resistant, discrete switching signals to and FAST™ XFI™ and EZ-EFI 2.0® Fuel Injection System, these distributors deliver extremely precise ignition timing and extra long life.

Small/Big Block Chevrolet Distributor	305005	RB Engine (426-440) Chrysler Distributor	305013
Big Block Chevrolet (Tall Deck) Distributor	305017	Pontiac Distributor	305016
Small Block Ford Distributor	305007	Oldsmobile Distributor	305018
Ford Windsor Distributor	305009	Replacement Distributor Cap & Rotor	305014
FE Ford Distributor	305010	Replacement Distributor Cap	305014C
Ford 351C-460 Distributor	305015	Replacement Distributor Module	305014M
Small Block Chrysler Distributor	305011	Replacement Distributor Rotor	305014R
B Engine (383-400) Chrysler Distributor	305012		

## 4B Crank Triggers

The FAST™ Crank Trigger is a magnet free device with a durable wheel constructed from high strength steel. With a .125" wheel, it requires less space than competitors' aluminum versions. The FAST™ inductive sensor is also much smaller than others on the market and is hermetically sealed with the connector molded into the body. This long lasting sensor is used by OEMs both on and inside the motor and provides accurate timing. Compatible with XFI 2.0™, XFI Sportsman™, EZ-EFI 2.0® Fuel+Ignition or for use with other aftermarket EFI/ignitions.

- Ultra durable CNC-machined aluminum bracket with clearly labeled precision timing marks
- Magnet-free, ultra-thin .125" steel wheel
- Small OEM-quality inductive sensor provides unrivaled accuracy while saving space
- Includes all required mounting hardware; plug-and-play with any aftermarket EFI system



\* Mount brackets included with some part numbers, call us at 1.877.334.8355 for specific components.

Small Block Chevy Crank Trigger For 7.00" Balancer	301270	Big Block Chevy Crank Trigger For 8.00" Balancer	301180
Small Block Chevy Crank Trigger For 8.00" Balancer	301280	Small Block Ford Crank Trigger For 6.562" Balancer	303565



# XFI 2.0™ BASE COMPONENTS



## 5B E6/E92 Digital CD Ignition & Coil Kit

This E6 Digital CD Ignition Box was engineered to provide a solution for a digital electronic CD ignition that would work flawlessly with FAST™ EFI components. It features multiple spark functionality, meaning the engine will fire multiple sparks per cylinder while the engine is below 3000 RPM. The multiple-spark feature provides a more complete burning of the fuel in the combustion chamber, resulting in a smoother running engine and better fuel economy. The FAST™ E6 Digital CD Ignition Box is electronic fuel injection friendly and specifically designed to work with all FAST™ EFI Systems. The engineers at FAST™ also designed the E6 Digital Ignition box to be fully compatible with all carbureted applications.

Available to work directly with the FAST E6 ignition box or any other modern ignition system is the E92 E-Core Ignition Coil. It is able to provide up to 70% more output than standard OEM coils due to the computer-designed, robust gauge windings. This results in less resistance and better heat dissipation for improved higher RPM performance. The FAST™ E92 E-Core Ignition Coil is completely over-molded to ensure maximum protection from rust and corrosion. The over-molded design also allows the unit to be significantly lighter than the standard OEM component. A full kit that includes both the E6 Digital CD Ignition Box and the E92 E-Core Ignition Coil is available or parts may be purchased separately.

- Features multiple-spark technology for more complete burning of fuel in combustion chamber
- Multiple-spark function results in smoother running engine and increased fuel economy
- Engineered to support all FAST™ EFI systems and all carbureted applications

E6/E92 Digital CD Ignition & Coil Kit	306401
E6 Digital CD Ignition Box	306425
E92 E-Core Ignition Coil	308250

## 5B E7 Ignition Controller

This high-output, race-specific digital unit is a high-energy, high-RPM, fully environmentally protected capacitive ignition. It is designed to allow the full performance of a race engine where high-compression, nitrous oxide and boosted applications are common. The ignition includes two built-in rev limiters, a tach output and 20 degrees of start/retard for less wear and easier starting. The fully digital design allows for much higher speed and accuracy of spark timing and rev limits than analog systems. The controller's composite enclosure saves weight, while an aluminum-finned, extruded heat sink improves heat dissipation. Provides 160 MJ of energy output. This unit is perfect for drag, circle track and boat race applications.

E7 CD Ignition Controller	307222
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# EFI Components & Accessories

## DASHES

### XFI 2.0™ eDash

Developed to make harnessing the power of FAST™ XFI™ systems even easier, the XFI™ eDash lets users view multiple sensors in real-time and make popular adjustments without any software, laptops or switches. This direct plug-and-play unit is compatible with all FAST™ XFI 2.0™ and XFI Sportsman™ units and offers an attractive, modern electronic digital dash that is small and compact, yet very readable. The full-color, touchscreen hand-held doesn't require a laptop or software as the unit automatically senses the EFI system to which it is attached. The unit features multiple live data sensor screens, which include various electronic digital dashes highlighting combinations of commonly used sensors. Includes a suction cup and articulating quick-release mount, making dash or window mounting easy.

FAST™ XFI 2.0™ and XFI Sportsman™ Systems REQUIRE a laptop for initial tuning; XFI™ eDash is for use after initial tuning is complete.



- Displays up to 20 different live sensor values at one time
- User can select start-up screen that will display each time unit restarts
- Unit logs both minimum and maximum sensor readings to allow easy recording of information
- Includes suction cup and articulating quick-release mount for easy window mounting
- Works with XFI 2.0™ and XFI Sportsman™

XFI 2.0™ eDash

301517

### On-The-Fly Adjustment Options (w/ XFI 2.0®)

Pick From Up To 4 Street Or Race Tunes  
Power Adder (eg. Nitrous) On/Off  
Torque Converter Clutch Lock-up MPH (w/ EZ-TCU™)  
Adaptive Learn Trim Adjustments

### XFI™ Touchscreen Dash/Data Logger

With its state-of-the-art monitoring and data logging capabilities, the XFI 2.0™ Touchscreen Dash/Data Logger can assemble a comprehensive, real-time picture of up to 25 separate input channels and allows for fine tuning of the TCU through the dashboard without a laptop. It features a 6-inch, fully programmable LCD touchscreen display and has the ability to display its data in a multitude of scales, units and gauge configurations. Its backlit display can be user-customized at the touch of a finger or stylus. Engineered to work with any level of vehicle modification from stock to all-out race, the XFI™ Touchscreen Dash/Data Logger is able to monitor and display output, including frequency (RPM, wheel speed, etc.), analog input and sources that require programmable input parameters such as MAP and MAF. As a data logger, the unit has a 2 MB memory module\* that will store up to one hour of data.

\* Example based on 8 analog inputs, 2 speed inputs, and transmission controller and XFI™ ECU outputs recorded at a rate of 5 samples/second.



- 8 analog inputs, 2 speed inputs, & programmable input parameters
- Logged data is viewable through display screen or downloadable via USB into C-COM® XFI™ or other popular Windows based programs for convenient data manipulation and analysis
- 2 PWM outputs configurable for a variety of accessories, including relays, shift lights, nitrous or boost control solenoids, etc.
- CAN (Control Area Network) communication allows all engine data from XFI 2.0™ to be transferred to the dash via 2 wires
- Works with XFI 2.0™ but NOT XFI Sportsman™

XFI 2.0™ Touchscreen Dash/Data Logger

301417

Classic FAST™ To Dash Adapter Cable

301442

FAST™ GPS Module For Use With Touchscreen Dash

301445



# EFI Components & Accessories

## MODULES

### XFI™ Exhaust Gas Temperature (EGT) Module

The XFI™ EGT (Exhaust Gas Temperature) Module from FAST™ allows XFI™/XFI 2.0™ owners to monitor up to 8 EGT sensors without requiring the use of the 8 spare auxiliary XFI™ inputs. The XFI™ EGT Module utilizes a small, thin cable to communicate through a high speed CAN connection.

XFI™ EGT Module	301418
XFI™ EGT Module Kit w/ Harness, Fittings & Thermocouples	301405
Single 12" Probe – 1/4" Diameter	30137
Single 18" Probe – 1/4" Diameter	30138
Single 24" Probe – 1/4" Diameter	30139
Single 36" Probe – 1/4" Diameter	30140
Single 48" Probe – 1/4" Diameter	301425
Weld-In EGT Fittings – 1/8" NPT	301443
EGT Fitting Caps	301444



#301418

### XFI™ 3-Axis Accelerometer Module

The XFI™ 3-Axis Accelerometer Module gives you the ability to read g-forces for acceleration/deceleration, vertical motion and turns. This module, designed to communicate with the C-Com® XFI™ software, allows an individual to test and improve launches, braking and cornering. Great for off-road, road racing, drag racing and street performance vehicles.

XFI™ 3-Axis Accelerometer Module	301419
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#301419

### Bump Stager

Available as a complete kit, the Bump Stager lets drag racers carefully pulse the transbrake. This enables the vehicle to move forward slowly during staging, creating a higher degree of repeatability than racers are able to achieve manually. The complete kit comes with everything needed for use in the box, and a built-in 20-amp driver removes the hassle of wiring an external relay for most applications.

- Includes variety of adjustment options including ramp in/out times, output frequency & shift-light control
- Kit comes with everything needed in box
- Designed for all automatic transmission vehicles with installed transbrake solenoid, creating universal functionality

Bump Stager	30322
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# EFI Components & Accessories

## OPTIONAL

### Upgrade Options

(Available As A Conversion Service To Existing Or Older XFI 2.0™ Units)

XFI 2.0™ Update	301020	Internal Data Logging Option	301423
XFI 2.0™ Update w/ Enclosure	301021	Intelligent Traction Control™ Option	308027
		16 Injector Option	308028

### Optional Harnesses & Connector Kits

(Connector Kits Consist Of Connectors, Terminals & Seals Only – No Wires)

	Complete Harness	Kits		Complete Harness	Kits
Power Adder	301400	301400K	CAN Retro-Fit	301412	301412K
Flash	301401	301401K	CAN Interconnect Cable	301413	NA
Analog Input	301402	301402K	CAN Terminating Resistor Set	301414	NA
VSS & Auxiliary Shaft	301403	301403K	Single Pressure Sensor Kit 0-100 psi (w/ Precision Sensors)	301408 <sup>1</sup>	NA
Switching Outputs (Terminated To Push Into Connector Directly)	301404	NA	Single Pressure Sensor Kit 0-200 psi (w/ Precision Sensors)	301420 <sup>1</sup>	NA
Fan & Fuel Pump	301406	301406K	Single Pressure Sensor Kit 0-1500 psi (w/ Precision Sensors)	301421 <sup>1</sup>	NA
Dual Pressure Sensor Kit 0-100 psi (w/ Precision Sensors)	301407 <sup>1</sup>	301407K <sup>1</sup>	MSD Crank Trigger to XFI™ Harness	307045	NA
Single Pressure Sensor Kit (w/ OE Style & Mount)	301410	NA	MSD Cam Trigger to XFI™ Harness	307046	NA
Qwik Tune™ Calibration Selector Switch	301409	NA			

<sup>1</sup> Includes 307602 sensor(s).

### Connector Cables

5 ft. PC To ECU Cable	308019
25 ft. PC To ECU Cable	308014
USB To Serial Converter Cable	307044



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# EFI Components & Accessories

## SENSORS

### Sensor Kits

FAST™ has once again taken the lead in simplifying your conversion to EFI with our sensor kits. In each kit you receive every sensor you'll need. Our kit comes complete with excellent, high-quality sensors in a wide variety of styles to cover GM or Ford-style throttle position and 1, 2, 3 and 5 bar MAP sensors.

Ford 1 Bar/14.5 psi	307049	GM 1 Bar/14.5 psi	307053
Ford 2 Bar/29.0 psi	307050	GM 2 Bar/29.0 psi	307054
Ford 3 Bar/43.5 psi	307051	GM 3 Bar/43.5 psi	307055
Ford 5 Bar/72.5 psi	307052	GM 5 Bar/72.5 psi	307056

#### Sensor Kits Include the Following:

Ford		GM	
TPS	307005	TPS	307006
CTS	307003	CTS	307003
ATS	307004	ATS	307004

#### And (1) MAP of Choice:

1 Bar	307007	3 Bar	307009 <sup>1</sup>
2 Bar	307008 <sup>1</sup>	5 Bar	307047 <sup>2</sup>

<sup>1</sup> Includes replacement matching connector body to retro-fit existing 301100 or 301101 main harness.

<sup>2</sup> Includes 5 bar adapter.

### Relays

For switching any high current or high load device.

20-AMP Relay (EZ-EFI®)	307010	75-AMP Relay	307019
30-AMP Relay	307011	Digital 20-AMP Relay	307043

### Throttle Position Sensor (TPS)

The throttle position sensor bolts to the throttle blade shaft and relays throttle opening/closing information to the system ECU. The TPS is constructed of high resistance material with a sensitive rotator for accurate throttle position measurement.

Throttle Position Sensor – Ford	307005
Throttle Position Sensor – GM	307006
Throttle Position Sensor – GM LT1 (EZ-EFI® & EZ-EFI 2.0®)	307028
Throttle Position Sensor – GM LS	54020
TPS Adapter Harness – Early To Late GM	308022
TPS Adapter Harness – Early To Late GM	308030

### Coolant Temperature Sensor (CTS)

Coolant Temperature Sensor – 3/8" NPT	307003
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### Air Temperature Sensor (ATS)

These sensors monitor incoming air temperature for the ECU system. This information helps the ECU inject the proper amount of fuel into the system.

Air Temperature Sensor – 3/8" NPT	307004
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# EFI Components & Accessories

## SENSORS

### 5 Wire Oxygen Sensor

For wide-band, closed-loop applications. Sensor can read air/fuel ratios from 9:1 to 16:1.

Replacement Wide-Band O <sub>2</sub> Sensor (EZ-EFI®, EZ-EFI 2.0®, XFI™ Sportsman or Air/Fuel Meter)	170408
5 Wire Wide-Band Oxygen Sensor LHA-Type (XFI™, XFI 2.0® or XFI 2.0™ Marine)	301422
5 Wire Wide-Band Oxygen Sensor Mating Connector Kit (XFI™, XFI 2.0® or XFI 2.0™ Marine)	301422K
300 Series Stainless Steel Oxygen Sensor Fitting (Weld-In Bung)	30168
300 Series Stainless Steel Oxygen Sensor Fitting Plug	30169
300 Series Stainless Steel Oxygen Sensor Fitting & Plug Kit	307018



### Precision Pressure Sensors

Compatible with XFI™ and the FAST™ Touchscreen Dash/Data Logger and designed for harsh automotive environments, these pressure sensors allow you to monitor vital pressures throughout your powertrain. Fuel, oil and nitrous pressure are just a few examples. Constructed from a stainless steel body with 1/8" NPT thread, each sensor is supplied with a sealed mating connector and terminals.

Single Pressure Sensor Kit 0-100 PSI	307062	Single Pressure Sensor Kit 0-1500 PSI	307064
Single Pressure Sensor Kit 0-200 PSI	307063		

For complete kit with XFI™ specific harness, see page 35.



### OE-Style Fuel/Oil Pressure Sensors

0-100 PSI Sensor – Replacement Sensor, M16x1.5 Thread, 0-5V	30428
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For complete kit with XFI™ specific harness, see page 35.



### Manifold Absolute Pressure Sensors (MAP)

These sensors monitor intake manifold vacuum to measure the amount of load being placed on the engine. MAP sensors relay engine load output to the ECU, which in turn adjusts fueling for optimum performance and economy.

MAP 1 Bar Sensor, LS1 Style	307029	MAP 3 Bar Sensor	307009 <sup>1</sup>
MAP 1 Bar Sensor	307007	MAP 5 Bar Sensor	307047 <sup>1,2</sup>
MAP 2 Bar Sensor, LS1 Style	307002	Adapter Harness – LS Sensor to Early GM Harness	308029
MAP 2 Bar Sensor	307008 <sup>1</sup>	Adapter Harness – Early GM to LS Sensor Harness	308031

<sup>1</sup> Includes replacement matching connector body (to retro-fit existing 301100 or 301101 main harness).

<sup>2</sup> Includes 5 bar adapter.

### Idle Air Control Motor (IAC)

The idle air control allows the ECU system to control engine idle speed by controlling air-flow around the throttle body blades.

IAC GM TPI Style	307014
IAC GM LT1/LT4 Style	307015
IAC GM LS1 Style	307059
Remote IAC Valve Adapter w/ Filter	307016 <sup>1</sup>
IAC Housing (Adapts Ford to GM)	307022 <sup>2</sup>
IAC Adapter Harness – Early Harness To Late GM IAC	308023
IAC Adapter Harness – Late GM to Early Harness	308032

<sup>1</sup> Includes #307014 TPI-style IAC.  
<sup>2</sup> Use with #307014 TPI-style IAC.



### XFI™ Driveshaft Speed Sensor Kit

The XFI™ Driveshaft Speed Sensor Kit from FAST™ accurately measures driveshaft speed to provide better data for the traction control unit. Two magnets are fitted to the collar around the pinion yoke, which attaches to the driveshaft. When the magnet passes the pickup, it sends a signal to the XFI™ unit. The XFI™ uses that signal to calculate driveshaft RPM and also driveshaft acceleration. As a result, the XFI™ Driveshaft Speed Sensor Kit provides a much more accurate data reading than attempting to determine driveshaft speed solely through engine RPM. Perfect for drag race applications, this unit also provides an MPH reading, which allows the XFI™ to calculate miles per gallon.

XFI™ Driveshaft Speed Sensor Kit – 2.1875	301436	Replacement Speed Sensor Pickup	301438
XFI™ Driveshaft Speed Sensor Kit – 1.875	301437	Replacement Speed Sensor Trigger Magnet	301439



### Boost Control Solenoid

Allows XFI 2.0™ to control boost.

XFI™ 3-Port Boost Control Solenoid	301440
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# EFI Components & Accessories

## FUEL INJECTORS



### Precision-Flow™ Fuel Injectors

FAST™ Precision-Flow™ Fuel Injectors deliver the outstanding idle quality, unparalleled flow consistency and durability essential for high performance EFI engine applications. Engineered to yield faster throttle response, reduced clogging and superior fuel atomization, Precision-Flow™ Fuel Injectors are manufactured to the tightest tolerances in the industry.

FAST™ also offers Precision-Flow™ Fuel Injectors specifically for GM Gen IV engines. They are the highest flowing injectors available for these applications and are uniquely designed for direct installation into LS2 and LS3/LS7/L76/L92/L99-style engines. Available in two different height configurations and a wide range of flow rates, the injectors are correctly sized (shorter than common LS1/LS6 injectors) and feature the correct EV6/USCAR connector, enabling a hassle-free plug-in operation.

\* Low-impedance injectors can not be used with OEM computers.

### Choosing your Precision-Flow™ Fuel Injectors

1. Take your target peak horsepower and multiply by

- 0.5 for naturally aspirated
- 0.6 for supercharged
- 0.625 for turbocharged

2. Take that figure and divide by the number of cylinders.

3. Divide by .9 (for 90% duty cycle).

This will give you the lb./hr. you will need from each injector.

**Example:** 520 horsepower, naturally aspirated V8  
(520 x 0.5=260), (260/8=32.5), (32.5/.9=36)

This application would require 36 pound per hour Precision-Flow™ Fuel Injectors (Part #303600).

If the formula gives you a number that is not one of the injector sizes, the general rule is to move up to the next largest size.



The FAST™ R&D Fuel Flow Bench is a custom built fuel injector dyno that is unequaled. Designed by FAST™ engineers, the one-of-a-kind system allows for advanced testing and development of an injector's flow capabilities.

### STAY CONNECTED

Take your pick – Facebook, Twitter, our e-newsletter or one of our forums. You'll receive insider information on new products, specials and free giveaways via social media, as well as access to our highly trained technical staff and our ever expanding library of how-to videos.

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# EFI Components & Accessories

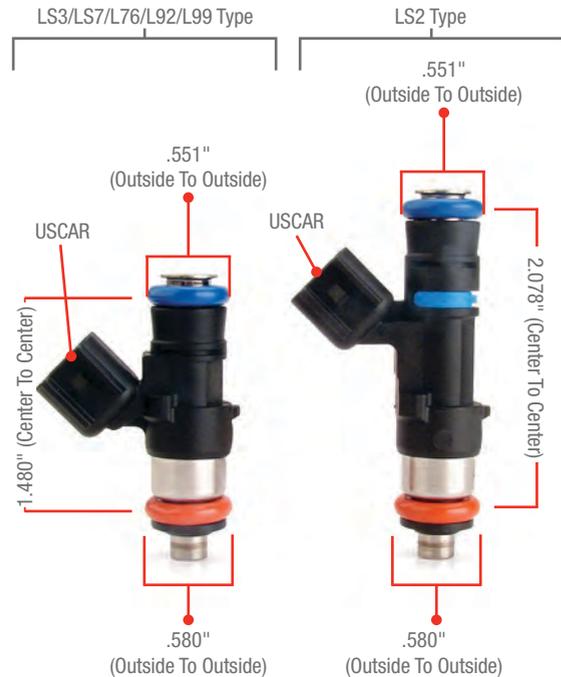
## FUEL INJECTORS



### Fuel Injectors, Minitimer Connector<sup>1</sup> Style

36 lb./hr. (378cc/min) High-Impedance Single Injector	303600
60 lb./hr. (630cc/min) High-Impedance Single Injector	306000
220 lb./hr (2310 cc/min) Low-Impedance Single Injector	30355-1

<sup>1</sup> All injectors flow rated at 43.5 psi/3 Bar.



### Fuel Injectors, USCAR Connector<sup>2</sup> Style

LS2-Type 33 lb./hr. (346.5cc/min) High-Impedance Single Injector	30332-1
LS2-Type 46 lb./hr. (483cc/min) High-Impedance Single Injector	30462-1
LS2-Type 57 lb./hr. (598.5cc/min) High-Impedance Single Injector	30572-1
LS2-Type 85 lb./hr. (892.5cc/min) High-Impedance Single Injector	30859-1
LS3/LS7/L76/L92/L99-Type 39 lb./hr. (409.5cc/min) High-Impedance Single Injector	30397-1
LS3/LS7/L76/L92/L99-Type 50 lb./hr. (525cc/min) High-Impedance Single Injector	30507-1
LS3/LS7/L76/L92/L99-Type 65 lb./hr. (682.5cc/min) High-Impedance Single Injector	30657-1
LS3/LS7/L76/L92/L99-Type 85 lb./hr. (892.5cc/min) High-Impedance Single Injector	30857-1

<sup>2</sup> All Injectors flow rated at 58 psi (Stock OE LS operating pressure).

## Fuel Injector Adapter Harnesses & Connector Kits

FAST™ Fuel Injector Adapter Harnesses and Connector Kits enable easy retro-fitting of both new and old style electronic fuel injectors. New style fuel injectors can be used on vehicles equipped with older-style Minitimer connectors. Retro-fitting a Minitimer injector into a USCAR harness is also possible with a different adapter harness. Connector kits, complete with terminals, seals and plugs, are available as well, allowing direct re-termination of existing harnesses with the correct connectors, either Minitimer or USCAR.

Minitimer Type Connector Kit	170599-1
USCAR Type Connector Kit	170600-1
Minitimer To USCAR Type Connector	170603-1
USCAR To Minitimer Type Connector	170604-1

\* Each connector & kit are also available in packs of 8. Simply change the -1 to -8.



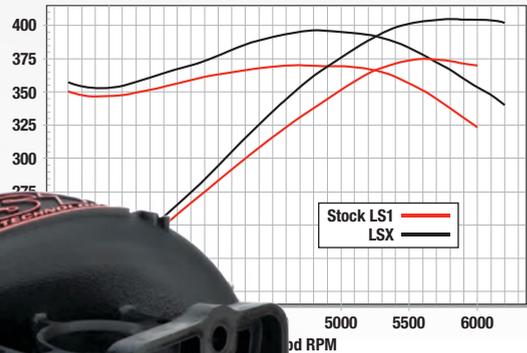
# Intake Manifolds & Throttle Bodies

## LSX™ 92mm INTAKE MANIFOLD



#54039B

Standard Temperature Pressure  
LSX, Stock LS1



**50-STATE LEGAL  
CARB EO# D-279-9**

### LSX™ 92mm Black Intake Manifold *Patent No. 7,021,263 B1*

The patented LSX™ 92mm Black Intake Manifold from FAST™ is the only three-piece Gen III (cathedral port) composite manifold proven to deliver increased performance without compromising bottom-end drivability or high-RPM power. Available for both street and racing applications, the new black intake manifold is an easy bolt-on installation for GM Gen III (LS1, -2 & -6) engines and is designed to work with the FAST™ Big Mouth 92mm Throttle Body™. This intake manifold maintains the performance gains achieved over stock intakes with no loss in drivability or low RPM torque. While the manifold delivers terrific performance right out of the box, it can be ported by the customer for even more flow. As requested by previous LSX™ customers, the intake features the added benefits of corrosion-free stainless steel assembly bolts, an improved throttle body sealing flange with o-ring gasket and threaded insert throttle body mounts that provide increased durability.

- Improved throttle body sealing flange and o-ring gasket
- High-quality polymer materials resist the “heat sink” effect of aluminum
- Maximizes potential of other engine performance upgrades such as cylinder heads
- Designed to work with FAST™ Big Mouth and Big Mouth LT Throttle Bodies™ (92mm)
- Includes stainless steel bolts, threaded insert throttle body mounts and necessary mounting hardware



LSX™ 92mm Black Intake Manifold

Manifold	Upper Shell	Lower Shell
54039B	54039BUS	54039BLS

The LSX™ 92mm Intake Manifold uses FAST™ Billet Fuel Rails (Part #54023) and either a Big Mouth Throttle Body™ (Part #54092) or Big Mouth LT Throttle Body™ (Part #54090).



# Intake Manifolds & Throttle Bodies

## LSX™ 102mm INTAKE MANIFOLDS

**50-STATE LEGAL  
CARB EO# D-279-9**



### LSX™ 102mm Intake Manifold Patent No. 8,567,366

#146102B Shown with #54103

FAST™ engineers teamed up with airflow specialists at RHS® to develop polymer intake manifolds for rectangular port GM LS3 and LS7 engines and cathedral port LS1/LS2/LS6 engines. Testing on a near stock 500c.i. LS7 engine with a Big Mouth 102mm Throttle Body™ produced gains of 16+ horsepower and 26+ rear wheel horsepower. The LSX™ 102mm Intake Manifold features a revolutionary modular design that allows for fast and easy disassembly and features the ability to remove individual runners for porting.

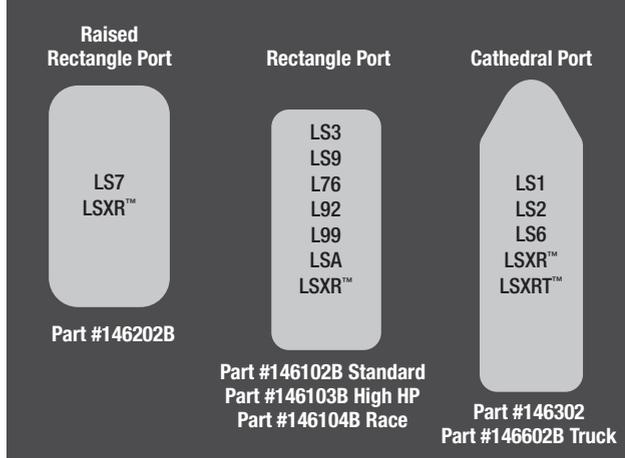
Constructed from the same advanced polymer material as the original FAST™ LSX™ 92mm Intake Manifold, but now in the popular black color, the LSX™ offers a host of benefits over aluminum aftermarket intakes, including lighter weight, increased strength and improved heat dissipating characteristics. While the LSX™ features a 102mm air inlet that is perfectly suited to the FAST™ Big Mouth 102mm Throttle Body™, for maximum convenience it can also be used with OEM or aftermarket 90mm or 92mm throttle bodies. Other features include integrated nitrous bungs and perfect bolt-on fitment that allows the use of factory accessories without modification or clearance concerns. Fits most C5 and C6 Corvettes without modification.

Now available for LS3, L76, L92 and L99 rectangle port applications are High Horsepower and Race versions of the LSX™ Intake Manifold. With shorter and straighter runners than the original LSX™, the High HP intake can make up to 20+ more horsepower than the original while the Race intakes have proven to make up to 35+ more horsepower. Runner sets can also be purchased separately - see page 46.

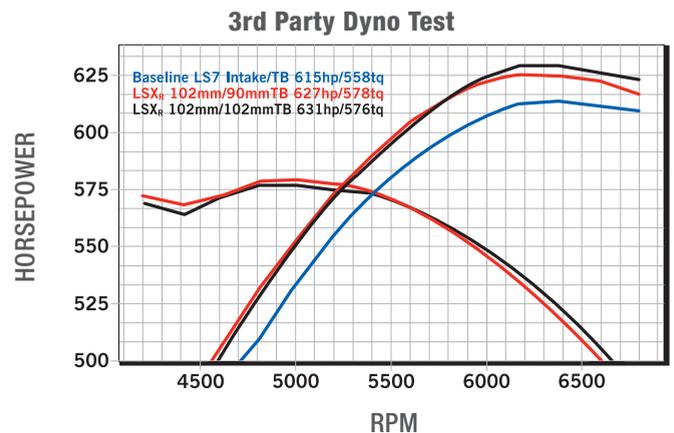
	Manifold	Upper Shell	Lower Shell
LSX™ 102mm <b>STANDARD</b> Intake Manifold – Rectangle Port, See Chart Below	146102B	146000B	146001
LSX™ 102mm <b>HIGH HP</b> Intake Manifold – Rectangle Port, See Chart Below	146103B	146000B	146001
LSX™ 102mm <b>RACE</b> Intake Manifold – Rectangle Port, See Chart Below	146104B	146000B	146001
LSX™ 102mm Intake Intake Manifold – Raised Rectangle Port, See Chart Below	146202B	146000B	146201
LSX™ 102mm Intake Intake Manifold – Cathedral Port, See Chart Below	146302B	146000B	146301

<sup>1</sup> See chart on page 48 for fuel rail options.

### LS Port Identification



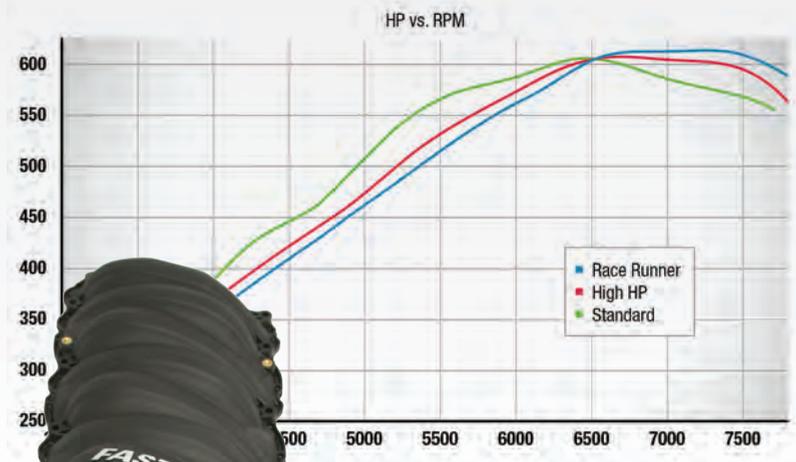
**SEE PG 46 FOR NEW RUNNER SET OPTIONS**



# Intake Manifolds & Throttle Bodies

## LSX<sub>R</sub>™ / LSX<sub>RT</sub>™ INTAKE RUNNERS

**MAXIMIZE  
HORSEPOWER**



### LSX<sub>R</sub>™ / LSX<sub>RT</sub>™ Interchangeable Intake Runners

High Horsepower and Race versions of the LSX<sub>R</sub>™ Intake Runners are designed specifically for LS3, L99, L76 and L92 engines that are built for high performance applications. The High HP Runner Set is based on Daytona prototype intakes that are shorter and straighter than previous market offerings, specifically to improve high-RPM horsepower and torque in vehicles with added performance modifications. The High HP version has been proven to make 20+ additional horsepower over the original LSX<sub>R</sub>™ manifold with a 500-1000 RPM shift up in peak horsepower on LS3 performance engines.

The Race Runner Set features the shortest and straightest runners that rival aluminum four-barrel intakes for horsepower potential. This setup utilizes a race runner engineered for all-out high-RPM performance and is ideal for vehicles with serious performance modifications and race converters. The Race Version can provide up to a 35+ horsepower gain over the original LSX<sub>R</sub>™ with a 500-1000 RPM upward shift in peak hp for all out race vehicles.

The runners are interchangeable and available in kits so LS3 manifolds ONLY may be configured with Standard, High HP or Race runners.



**MAXIMIZE HORSEPOWER WITH  
INTERCHANGEABLE INTAKE RUNNER SETS**

	Runners Only	Manifold & Runner Set
LSX <sub>R</sub> ™ 102mm <b>STANDARD</b> Intake Manifold & Runners – LS3 Car	146053	146102B
LSX <sub>R</sub> ™ 102mm <b>HIGH HP</b> Intake Manifold & Runners – LS3 Car	146070	146103B
LSX <sub>R</sub> ™ 102mm <b>RACE</b> Intake Manifold & Runners – LS3 Car	146071	146104B
LSX <sub>R</sub> ™ 102mm Intake Manifold & Runners – LS7 Car	146253	146202B
LSX <sub>R</sub> ™ 102mm Intake Manifold & Runners – LS1 Car	146353	146302B
LSX <sub>RT</sub> ™ 102mm Intake Manifold & Runners - LS1 Truck	146653	146602B

- Standard runners work with stock or mild vehicles
- High HP & Race runners are shorter & straighter than conventional runners to improve high-RPM hp
- High HP option makes 20+ HP over original LSX<sub>R</sub>™ manifold, Race setup makes 35+ HP
- Interchangeable runners allow manifold to be configured as original, High HP or Race



# Intake Manifolds & Throttle Bodies

## LSX<sub>RT</sub><sup>™</sup> 102mm INTAKE MANIFOLD



#146602

25 HP BOLT-ON  
GAINS FOR 1999 & UP  
4.8L/5.3L/6.0L GM  
TRUCKS

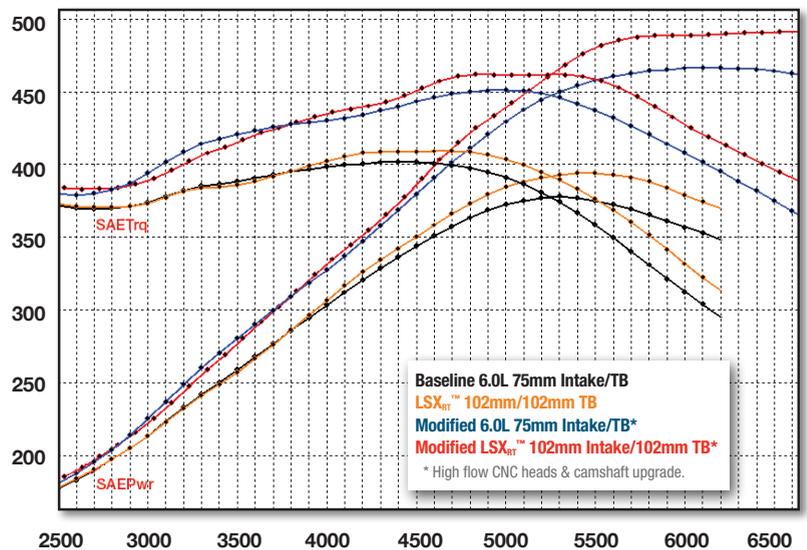
**50-STATE LEGAL  
CARB EO# D-279-9**

### LSX<sub>RT</sub><sup>™</sup> 102mm Intake Manifold *Patent No. 8,567,366*

Designed specifically for GM 4.8/5.3/6.0L cathedral port truck engines and cathedral port LS1, -2, -6 race applications where hood clearance is not a concern, the FAST<sup>™</sup> LSX<sub>RT</sub><sup>™</sup> 102mm Intake Manifold follows the path chartered by the original FAST<sup>™</sup> LSX<sup>™</sup> Gen III Intake. It features a modular design that allows for easy porting and disassembly and a runner design that yields an incredible 25 peak horsepower gain over the stock intake, on a stock 6.0L engine with a Big Mouth 102mm Throttle Body<sup>™</sup>. Extensive testing led to a runner design that is longer and less restrictive and gives the user the ability to remove individual runners from the manifold for modification.

The LSX<sub>RT</sub><sup>™</sup> is constructed from a proprietary precision injection molded black polymer which offers many benefits, including lighter weight, greater strength and lower heat soak propensity. While it features a 102mm air inlet that was designed for the FAST<sup>™</sup> Big Mouth 102mm Throttle Body<sup>™</sup>, it can also be used with OEM electronic 78/90mm or aftermarket 90/92mm throttle bodies (three-bolt electronic throttle bodies require an adapter). Other features include integrated nitrous bungs and a precise bolt-on fit that permits the use of factory accessories and OEM fuel/emission connections without adjustments or clearance issues. Some GM truck models may require the FAST<sup>™</sup> 92mm or 102mm throttle body.

- Designed for use with FAST<sup>™</sup> 102mm Big Mouth Throttle Body<sup>™</sup>
- 102mm inlet also works w/ OEM electronic 78/90mm or aftermarket 90/92mm throttle bodies for high flow and minimal restriction (three-bolt electronic throttle bodies require an adapter)
- Advanced polymer material is strong, lightweight and cools intake charge for enhanced power
- Big gains in rear-wheel HP yet retains factory fitments and under-hood clearance requirements



	Manifold	Upper Shell	Lower Shell
LSX <sub>RT</sub> <sup>™</sup> 102mm Intake Manifold	146602B <sup>1</sup>	146100B	146601
LSX <sub>RT</sub> <sup>™</sup> /LSX <sub>RT</sub> <sup>™</sup> Throttle Body Adapter Plate			146029-KIT <sup>2</sup>

<sup>1</sup> See diagram on page 48 for fuel rail options.

<sup>2</sup> Allows use of OEM electronic throttle body.

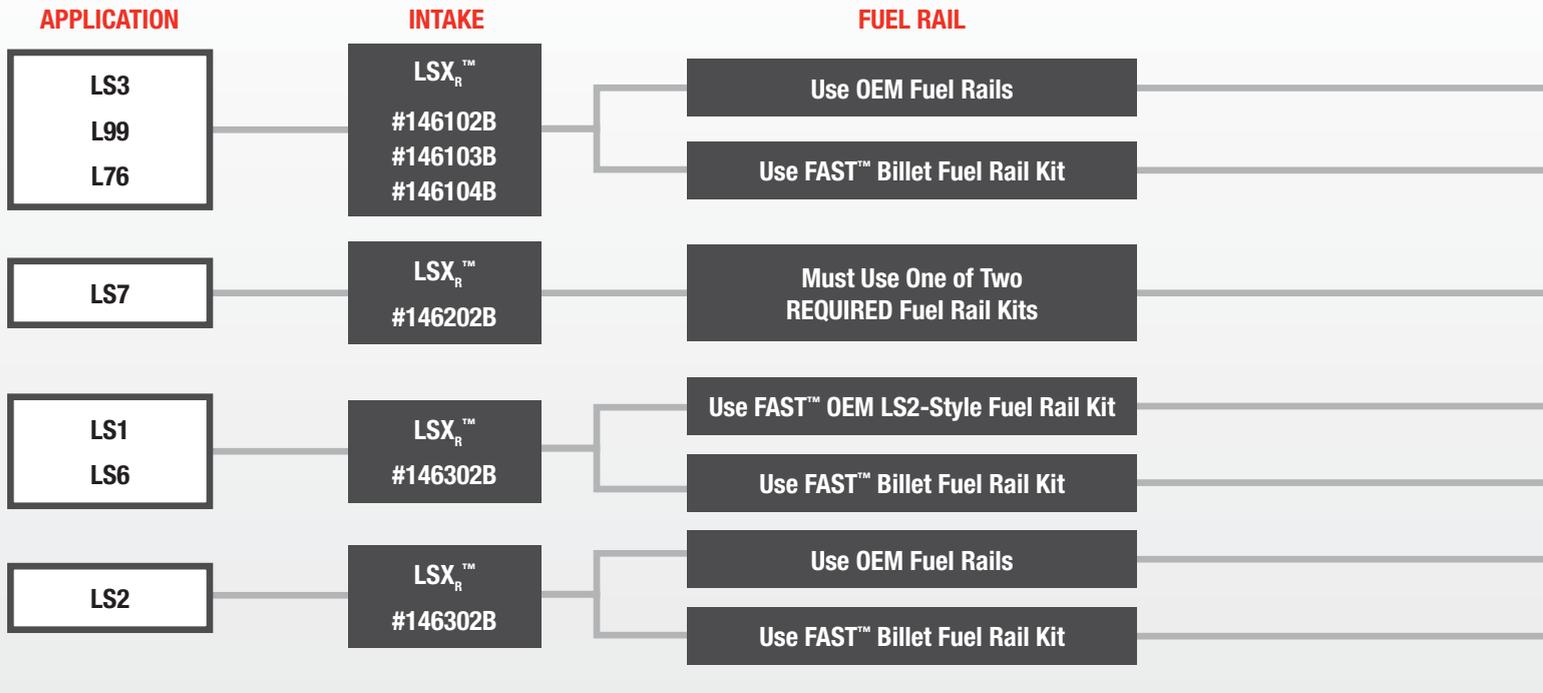
Replacement runners can be purchased separately - see page 46.

# Intake Manifolds & Throttle Bodies

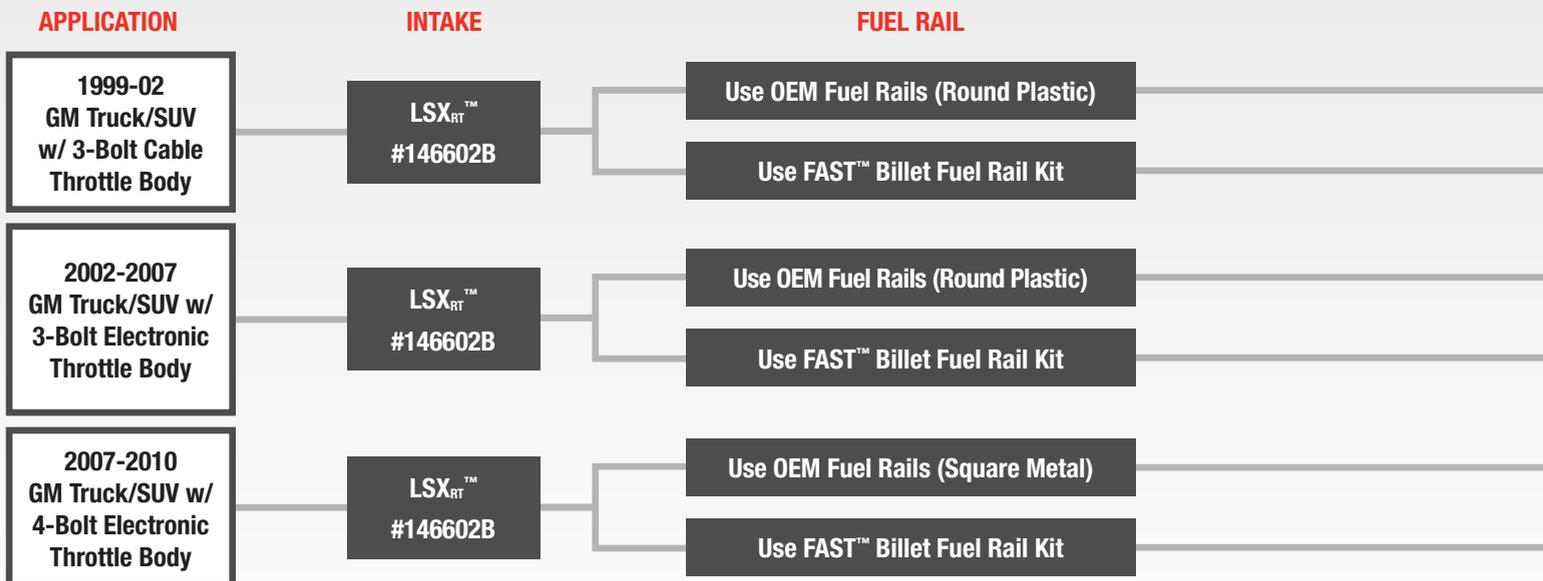
## 102MM INTAKE MANIFOLD OPTIONS

Having trouble determining which FAST™ Intake Manifold is the right one for your application? The diagram below can help. Find your LS application in one of the application boxes below and follow the lines to determine the proper intake manifold part number, along with fuel rail options and other required and optional accessory pieces. Please refer to these diagrams as some parts are REQUIRED with the installation of a FAST™ Intake Manifold.

### LSX<sub>R</sub>™ 102mm Intake Manifold (Rectangle, Raised Rectangle & Cathedral Port)



### LSX<sub>RT</sub>™ 102mm Intake Manifold (Cathedral Port)



<sup>1</sup> Requires injector lower o-ring swap (included w/ manifold).

<sup>2</sup> Except Corvette, call FAST™ for recommendations.

<sup>3</sup> Except 1997-1998 Corvettes.

<sup>4</sup> Permanent modification to OEM fuel rail required.

<sup>5</sup> For use w/ OEM GM Truck/SUV injectors & FAST™ LS2 Injectors.

<sup>6</sup> Requires injector lower o-ring swap when using OEM injectors (included with manifold).

<sup>7</sup> Excludes '06 Trailblazer SS, some cowl modifications required.

<sup>8</sup> Includes '06 Trailblazer SS, some cowl modifications required.

<sup>9</sup> Requires GM Purge Solenoid #12581282 (not sold by FAST™).

\* LSX<sub>R</sub>™ applications must use OEM injector length



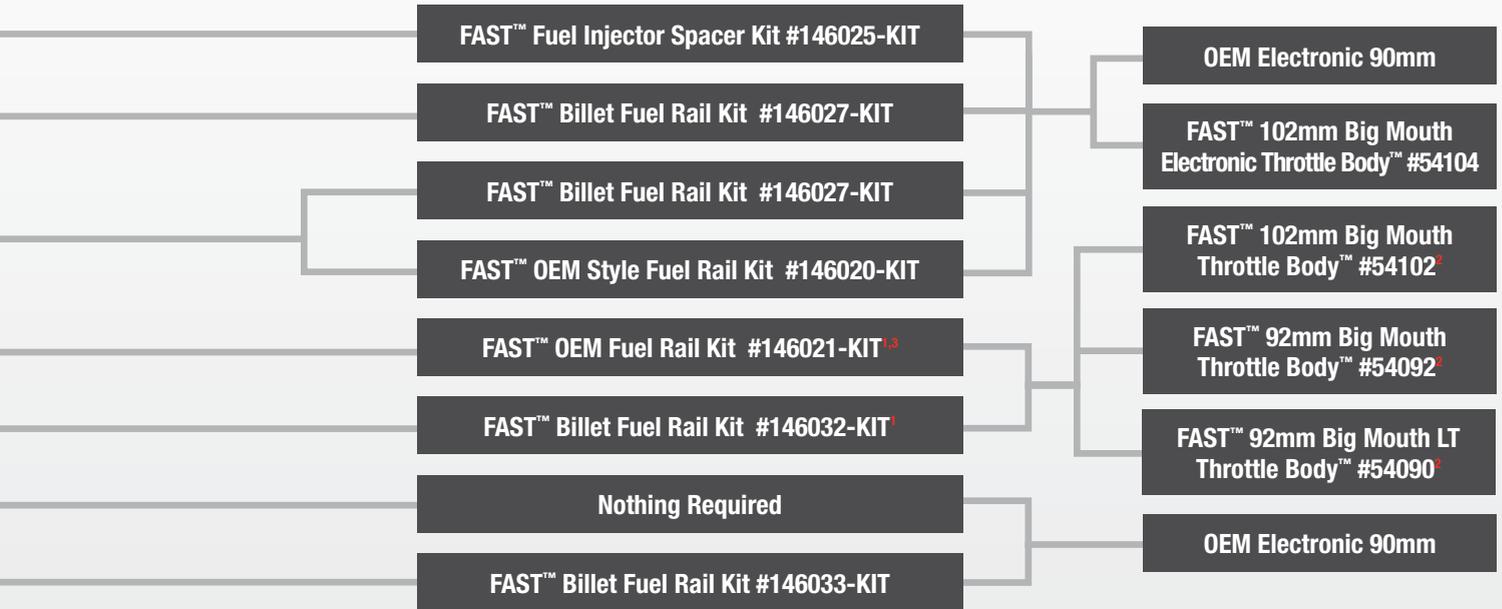
# Intake Manifolds & Throttle Bodies

## 102MM INTAKE MANIFOLD OPTIONS

### LSX<sub>R</sub>™ 102mm Intake Manifold (Rectangle, Raised Rectangle & Cathedral Port)

#### FUEL RAIL KIT

#### THROTTLE BODY



### LSX<sub>RT</sub>™ 102mm Intake Manifold (Cathedral Port)

#### FUEL RAIL KIT

#### THROTTLE ADAPTER PLATE

#### THROTTLE BODY



# Intake Manifolds & Throttle Bodies

## FUEL RAILS



### LSX™/LSX<sub>R</sub>™/LSX<sub>RT</sub>™ Fuel Rails

FAST™ LSX™/LSX<sub>R</sub>™/LSX<sub>RT</sub>™ Fuel Rails feature a larger internal diameter that dampens the pulses and provides increased fuel volume, ensuring that your injectors never run dry. In addition, they yield better fuel distribution and ultimately greater horsepower. Featuring high strength billet, lightweight, red or black\* (specific applications) anodized aluminum construction (does not include Part #146020-KIT or Part #146021-KIT), FAST™ fuel rails deliver performance in addition to a show car quality appearance.

	Red	Black
LSX™ LS1/LS6 Billet Fuel Rail Kit	146035-KIT	146035B-KIT
LSX™ LS1/LS6 Fuel Rails w/o Fittings	54023HDW	—
LSX™ LS1 Fittings, O-Rings & Hardware (No Fuel Rails)	54023FRH	—
LSX™ LS2 OEM Fuel Rail/Injector Adapter Kit	54026	—
LSX <sub>R</sub> ™ LS1/LS6 Billet Fuel Rail Kit	146032-KIT	146032B-KIT
LSX <sub>R</sub> ™ LS2-Style OEM Fuel Rail Kit For LS1/LS6 (Non-Billet)	146021-KIT	—
LSX <sub>R</sub> ™ LS2 Billet Fuel Rail Kit	146033-KIT	146033B-KIT

	Red	Black
LSX <sub>RT</sub> ™ LS3/LS7 OEM Car Fuel Rail Kit (Non-Billet)	146020-KIT	—
LSX <sub>RT</sub> ™ LS3/LS7 OEM Fuel Injector Adapter Kit (No Fuel Rails)	146025-KIT	—
LSX <sub>RT</sub> ™ LS3/LS7 Billet Fuel Rail Kit	146027-KIT	146027B-KIT
LSX <sub>RT</sub> ™ Gen III Billet Fuel Rail Kit	146028-KIT <sup>1</sup>	146028B-KIT <sup>1</sup>
LSX <sub>RT</sub> ™ Round OEM Fuel Rail Bracket Kit (No Fuel Rails)	146030-KIT	—
LSX <sub>RT</sub> ™ Square OEM Fuel Rail Bracket Kit (No Fuel Rails)	146031-KIT	—

<sup>1</sup> For use w/ OEM GM Truck/SUV injectors & FAST™ LS2 Injectors.

\* LSX™/LSX<sub>R</sub>™/LSX<sub>RT</sub>™ parts are NOT interchangeable.



### LSX™/LSX<sub>R</sub>™/LSX<sub>RT</sub>™ Fuel Rail Systems & Accessories

LSX™/LSX <sub>R</sub> ™/LSX <sub>RT</sub> ™ 0-100 EFI Fuel Pressure Gauge Kit	54027
LSX™/LSX <sub>R</sub> ™/LSX <sub>RT</sub> ™ 0-100 EFI Fuel Pressure Gauge (Only)	54027G
LS1 OEM Fuel 3/8" to -6AN Fuel System Conversion Fitting	54028
LSX™/LSX <sub>R</sub> ™/LSX <sub>RT</sub> ™ OEM Fuel Line Conversion Kit (1998-02 LS1 F-Bodies w/ FAST™ Billet Fuel Rails)	54028-KIT
LSX™/LSX <sub>R</sub> ™/LSX <sub>RT</sub> ™ OEM Fuel Line Conversion Kit w/ Fuel Pressure Gauge (Part 54028-KIT w/ Part 54027G)	54028G-KIT
-6AN, 90°/45° End Fuel Supply Line	54028FSL
-8AN, 90° End Crossover For FAST™ Fuel Rails	54028FRC

LSX™ LS1 Only Replacement O-Ring (Single)	540230R-1
LSX™ 8 SAE O-Ring To -8AN Fitting	54023A-1
LSX™ 8 SAE O-Ring To -6AN Fitting	54023B-1
LSX™ 8 SAE O-Ring To 1/8 NPT Fitting	54027A
LSX™ 8 SAE O-Ring Plug & O-Ring	54028P
LSX <sub>R</sub> ™ LS3/LS7/L76/L99 Injector O-Ring	146020COR
LSX <sub>RT</sub> ™ LS3/LS7 OE Fuel Injector Adapter Kit	146025-KIT

<sup>1</sup> Includes 8 SAE o-ring to 1/8 NPT fitting and o-ring for use with FAST™ billet fuel rails.

<sup>2</sup> Includes Part #54028, #54028FSL, #54028FRC and #54028P.

\* LSX™/LSX<sub>R</sub>™/LSX<sub>RT</sub>™ are NOT interchangeable unless listed together.

### Black Anodized Fuel Rails

FAST™ Fuel Rails are machined from high strength aluminum and feature a large 11/16" inside diameter for consistent pressure at each fuel injector. Offered in 18", 24", 36", 48" and 72" lengths, FAST™ has you covered no matter the application.

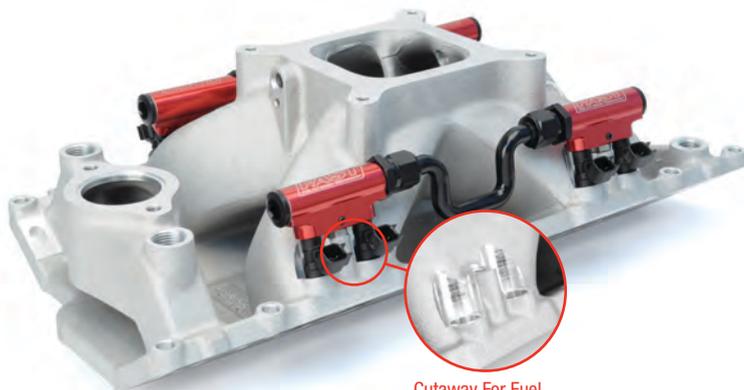
Universal Fuel Rail – 18"	30700218B
Universal Fuel Rail – 24"	30700224B
Universal Fuel Rail – 36"	30700236B
Universal Fuel Rail – 48"	30700248B
Universal Fuel Rail – 72"	30700272B





# Intake Manifolds & Throttle Bodies

## SINGLE PLANE INTAKE MANIFOLDS



#12903-KIT

Cutaway For Fuel  
Injector Clearance



#3035351

### Single Plane Aluminum Intake Manifolds

FAST™ Single Plane Intake Manifolds are designed to produce tremendous horsepower and high RPM torque from 3500-7500 RPM (Big Block Chevy), 4500-8500 RPM (Small Block Chevy, 351W Ford) and 4500-9000 RPM (289/302 Ford). All manifolds accept square bore, four-barrel 4150-style throttle bodies, such as the FAST™ part #307603, and feature a fuel injector boss in each runner that will accept FAST™ high performance injectors.

Small Block Chevy versions of these intake manifolds are engineered specifically to port match fit RHS® Small Block Chevy cylinder heads. Additionally, these manifolds are the only ones designed with a 4150 flange and bolt machining to fit all versions of Small Block Chevy cylinder heads, including classic originals, GM Vortec heads and late model perimeter corner vertical bolt style crate engine heads. They provide the power and strong torque curve throughout the mid-RPM range that is required for performance street, circle track and drag race applications up to 434c.i. The manifolds also feature auxiliary water ports, integral water crossover and dual sided distributor mounting points. Female pipe fittings at all four corners allow external water lines for reverse cooling applications. FAST™ also offers a port fuel injection version of these manifolds. Unlike the competition, the EFI manifold features port angle optimized injector bung mounting and machining features. FAST™ engineers laid the injectors down on an angle that points injectors directly at the valve stem. Additionally, the EFI manifold features integral sensors improving function, fitment and packaging. This is the only 4BBL-type EFI manifold on the market with an air control circuit.

### Fuel Injector Bungs

Designed for do-it-yourself fabricators who make their own multi-port fuel injection manifolds; these aluminum bushings can be welded or epoxied to a single plane, dual plane, tunnel ram or sheet metal manifold.

Fuel Injector Bungs (8-Pack)

307017

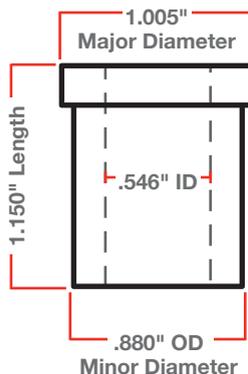
	As Cast
Small Block Chevy Manifold for Carbureted EZ-EFI® Applications	12902
Small Block Chevy Manifold for EFI Applications	12903-KIT <sup>1</sup>
Big Block Chevy Manifold	3011454 <sup>2</sup>
Big Block Chevy 10.2" (Tall) Deck Manifold (Uses 4500/7602 TB)	3011366 <sup>2</sup>
Ford 289/302 Manifold 8.2" Deck	3031302 <sup>2</sup>
Ford 351W Manifold 9.5" Deck	3035351 <sup>2</sup>
FE Ford Manifold	3033390 <sup>2</sup>

<sup>1</sup> Includes fuel rails & hardware.

<sup>2</sup> Minor machine work or clearancing to the intake manifold may be required depending on the cylinder heads used.

### Fuel Rail Kits

Big Block Chevy Fuel Rail Kit	30454
Small Block Ford Windsor Fuel Rail Kit	30351



# Intake Manifolds & Throttle Bodies

## BIG MOUTH THROTTLE BODIES™



#54087



#54104



#54091



#54102



#54095

### Big Mouth Throttle Bodies™

FAST™ Big Mouth Throttle Bodies™ for the LSX™ 92mm and LSX<sub>R</sub>™/LSX<sub>RT</sub>™ 102mm Intake Manifolds increase airflow through a series of innovative design changes and an enlarged throttle opening. These throttle bodies offer increased throttle blade thickness to eliminate deflection commonly found with other throttle bodies, especially those in boosted applications. A smoother operating offset blade pivot improves throttle response, and a beefed up linkage and dual throttle spring mechanism ensure total throttle control. Constructed from billet aluminum, the FAST™ Big Mouth 92mm Throttle Body™ will deliver bolt-on GM Gen III (LS1, -2 & -6) horsepower, while the 102mm version is designed to maximize performance upgrades on all Gen III and Gen IV engines with cable driven throttle bodies.

Also available for LS, Ford Coyote and Chrysler Hemi applications are the Big Mouth LT Throttle Bodies, new & improved versions of the original Big Mouth Throttle Body. With a 92mm throttle bore for LS and 87mm for the Ford Coyote and Chrysler Hemi, each one features black-wrinkle powder coating and all of the same features as the original.

All of the benefits of the 102mm Big Mouth Throttle Body are now available for drive-by-wire applications with the Big Mouth Electronic Throttle Body for GM LS engines. It provides a huge increase in airflow over stock – especially when applications are running a FAST™ manifold. It maintains stock characteristics at idle and is designed to be plug-and-play with the stock L99, LS3 or LS7 ECU, as well as with any LS engine utilizing a FAST™ XFI 2.0™ or XFI Sportsman™ system in conjunction with the FAST™ ETC module.

#### Big Mouth Billet

	W/ TPS & IAC	W/O TPS & IAC
92mm Big Mouth Throttle Body™	54095	54092
102mm Big Mouth Throttle Body™ (No IAC)	54103	54102

#### Big Mouth LT

	W/ TPS & IAC	W/O TPS & IAC
87mm Big Mouth LT Throttle Body™ for Ford Coyote	54087	54086
87mm Big Mouth LT Throttle Body™ for Chrysler Hemi	54089	54088
92mm Big Mouth LT Throttle Body™ for GM LS	54091 <sup>1</sup>	54090 <sup>1</sup>

#### Big Mouth Electronic

102mm Big Mouth Throttle Body™ for GM LS	54104
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#### Sensors

Throttle Position Sensor (TPS)	54020
Idle Air Control Solenoid (IAC)	307059

<sup>1</sup> For LS 4-bolt applications or those equipped with LSX™/LSX<sub>R</sub>™ Intake Manifolds.



# Intake Manifolds & Throttle Bodies

## 4-BARREL THROTTLE BODIES



#304151



#304152



#304154

### 4 Barrel Throttle Bodies

FAST™ 4 Barrel Throttle Bodies incorporate tapered and radiused throttle bores and precisely machined progressive linkage for smooth throttle operation and unparalleled airflow. More airflow equals more horsepower.

- Inward opening throttle blades improve performance by eliminating part throttle directional influence that causes poor air distribution
- Shorter height for better airflow, easier packaging for tight hood clearance and reduced weight

#### Port Injection Throttle Bodies

(No Fuel Injectors/Air Only)

	Natural	Polished	Black
Billet High Flow 4150 Style 4 Barrel, Flows 1375 CFM	307603 <sup>1</sup>	307603P <sup>1</sup>	307603B <sup>1</sup>
Billet High Flow 4500 Style 4 Barrel, Flows 2000 CFM	307604 <sup>1</sup>	307604P <sup>1</sup>	—
Precision Cast Air Only Throttle Body Assembly	304154 <sup>2</sup>	—	—



#307603  
(Includes IAC, TPS & Adapters)

#### Throttle Body Injection Units (Integrated Fuel Injectors Included)

Cast High Flow 4150 Throttle Body Assembly (4 Injector Version - 650 HP)	304152 <sup>3</sup>
Cast High Flow 4150 Throttle Body Assembly (8 Injector Version w/ Harness - 1200)	304151 <sup>3,4</sup>

#### Accessories

EZ-EFI® Cable Mount Kit	304147 <sup>5</sup>
Dual Quad Throttle Linkage Kit (EZ-EFI® Specific)	304110
Billet 4150 Open Style 1" Spacer	30244
Billet 4150 Open Style 1" Spacer (Includes Gasket & Studs)	30246

<sup>1</sup> Includes IAC, TPS and connector adapters.

<sup>2</sup> Includes MAP, IAT, IAC & TPS sensors. Does not include or use injectors or fuel rails.

<sup>3</sup> Includes MAP, IAT, IAC & TPS sensors and 30857-1 injectors.

<sup>4</sup> Harness and mating connector kit included.

<sup>5</sup> Works with 304148, 304149, 304150, 304151.



#307604P<sup>1</sup>  
(Includes IAC, TPS & Adapters)

# Intake Manifolds & Throttle Bodies

## SEALS & HARDWARE

### LSX™ /LSX<sub>R</sub>™ /LSX<sub>RT</sub>™ Seals & Hardware

Big Mouth 92mm/102mm Throttle Body™ Bolt Kit	146019
Complete LSX™ 92mm Manifold Hardware Kit (Includes TB Mounting Hardware)	54018C-KIT
LSX™ Manifold Only Hardware Kit	54018M-KIT
TPS Throttle Position Sensor (Cable Drive Only)	54020
Valley Plate Bolt Kit	54038VB-KIT
LS3 Pulley Spacer Washer	54043PS
LSX <sub>R</sub> ™ O-Ring	54043-302
LSX <sub>RT</sub> ™ O-Ring	54043-602
LSX™ LS1 Replacement Intake Port Seal	54009-8

LSX™ 90mm & 92mm Intake Rope Seal	54022
LSX <sub>R</sub> ™/LSX <sub>RT</sub> ™ Seal Kit	146017
LSX <sub>R</sub> ™ LS7 Manifold Hardware Kit	146019-KIT
LSX <sub>RT</sub> ™ 102mm Manifold Hardware Kit	146018-KIT
LSX <sub>R</sub> ™ 102mm LS3 Intake Port Seal	146003-8
LSX <sub>R</sub> ™/LSX <sub>RT</sub> ™ 102mm LS1/LS6/LS7 Intake Port Seal	146203-8
LSX <sub>R</sub> ™/LSX <sub>RT</sub> ™ 102mm Throttle Body O-Ring Seal	146004
LSX <sub>R</sub> ™/LSX <sub>RT</sub> ™ 102mm Upper To Lower Shell Intake Seal	146005
LSX <sub>R</sub> ™/LSX <sub>RT</sub> ™ 102mm Intake Runner Seal	146006-8

\* LSX™/LSX<sub>R</sub>™/LSX<sub>RT</sub>™ are NOT interchangeable unless listed together.



### Porting Tools & Accessories

When using one of the FAST™ LSX™, LSX<sub>R</sub>™ or LSX<sub>RT</sub>™ 102mm Intake Manifolds, you have the ability to easily port or disassemble the runners due to the intakes' modular design. Porting becomes even easier with our selection of porting tools and accessories.

#### Cartridge Rolls & Mandrels

Cartridge Roll Assortment	POW351705
3 Piece Mandrel Kit – 1", 4" and 8"	POW351510

\* All individual cartridge rolls available in sets of 50 pieces.

\*\* Mandrels also sold individually.

#### Carbide Burrs

1/2" Dia. 2" Cylinder w/ Radius Carbide Burr	POW355302
1/2" Dia. 2" Round Tree Carbide Burr	POW355402
1/2" Dia. 2" Oval Carbide Burr	POW355602
1/2" Dia. 2" Flame Carbide Burr	POW355802
3/8" Dia. 2" Pointed Tree Carbide Burr	POW353502
3/8" Dia. 2" Oval Carbide Burr	POW353602
3/8" Dia. 2" Ball Carbide Burr	POW353702

\* Carbide burrs available in aluminum cut and 6" lengths.



More part numbers available at [www.powerhouseproducts.com](http://www.powerhouseproducts.com)

**FAST™** has taken the next step in making EFI (electronic fuel injection) easier with these **FAST™ Complete Fuel System Kits**. These kits cover all street performance applications and most bracket and super class drag racing categories. The fuel system kit is the perfect product for those switching from carburetion to EFI, building new EFI engines or simply upgrading their current fuel system.

**FAST™ Complete Fuel System Kits** are component-matched systems. With one part number, the **FAST™** kits include everything you need for your state-of-the-art, EFI-equipped high performance engine.



### Inline Race Fuel Systems

FAST™ Race Fuel Systems include fuel pump, pre-filter, post-filter, Y-block and fuel regulator, as well as the system fittings and wiring harness. Best of all, the components used to create the FAST™ Complete Fuel System Race Kits are made of aluminum and stainless steel to ensure years of long, trouble-free service.

1200 HP Forced Induction/1300 HP Naturally Aspirated Race Fuel System Includes: 307500

- |                                  |                                      |                                 |                                     |
|----------------------------------|--------------------------------------|---------------------------------|-------------------------------------|
| • 30 Amp Relay                   | • 750 lb./hr. Pump @ 45 psi/13 volts | • 10 Micron Post-Filter         | • (2) -8AN Fittings & O-Rings       |
| • Circuit Breaker, 10 Gauge Wire | • 3 Port EFI Regulator               | • Y-Block, -10AN Ins, -8AN Outs | • (5) -10AN Fittings & O-Rings      |
| • Terminal Connectors            | • 100 Micron Pre-Filter              | • (1) -6AN Fitting & O-Ring     | • (2) -8 & -10AN Fittings & O-Rings |

1400 HP Forced Induction/1900 HP Naturally Aspirated Race Fuel System Includes: 307501

- |                                  |   |                                 |                                |
|----------------------------------|---|---------------------------------|--------------------------------|
| • 30 Amp Relay                   | • 1000 lb./hr. Pump @ 45 psi/13 volts                                       | • 10 Micron Post-Filter         | • (4) -10AN Fittings & O-Rings |
| • Circuit Breaker, 10 Gauge Wire | • 3 Port EFI Pro Series Regulator, (3) -8AN & (1) -10AN Ins & (1) -10AN Out | • Y-Block, -10AN Ins, -8AN Outs | • (2) -12AN Fittings & O-Rings |
| • Terminal Connectors            | • 100 Micron Pre-Filter   | • (4) -8AN Fittings & O-Rings   |                                |

### In-Tank vs. Inline

Inline fuel pumps are easier to install than in-tank fuel pumps because the fuel tank does not have to be removed. However, there are several advantages to running an in-tank fuel pump versus an inline fuel pump. FAST™ engineers recommend an in-tank fuel pump when possible.

- IN-TANK FUEL PUMP ADVANTAGES INCLUDE:**
- Always Primed
  - Runs Cooler
  - Required For Returnless Fuel Systems (EZ-EFI 2.0® Fuel + Ignition Only)
  - Runs Quieter
  - Method Used By All OEMs

# Fuel Systems

## STREET/STRIP FUEL SYSTEMS



#30401-FK



#30402-FK



#30402-P



#30401-P

### Street/Strip Fuel Systems

Whether you want to install a new inline fuel pump, or retro-fit an in-tank pump into a fuel tank that was originally manufactured without a pump, FAST™ has an easy solution for you. All FAST™ fuel pump kits are designed to work with FAST™ EFI systems flowing the right amount of fuel for the application. Master Kits include the fuel pump system, hose and fittings, while regular kits include the fuel pump system ONLY.

Master In-Tank Fuel Pump Kit (Includes Hose & Fittings)	30401-FK
In-Tank Fuel Pump Kit (Hose & Fittings NOT Included)	30401-PK
In-Tank Fuel Pump Only (1200 HP) w/ Pick-Up Filter & Connector Kit	30401-P

Master Inline Fuel Pump Kit (Includes Hose & Fittings)	30402-FK
Inline Fuel Pump Kit (Hose & Fittings NOT Included)	30402-PK
Inline Fuel Pump Only (650 HP) w/ Mounting Brackets	30402-P



# Fuel Systems COMPONENTS



#30272



#54028



#302530R-10

## Fuel Fittings & Accessories

-8 SAE O-Ring To -8AN Fitting & O-Ring	54023A-1	-6AN High Pressure Fuel Hose	30277
-8 SAE O-Ring To -6AN Fitting & O-Ring	54023B-1	-3 SAE O-Ring To -6AN, Fitting & O-Ring	30253-1
-8 SAE O-Ring To 1/8 NPT Fitting	54027A-1	Replacement -3 SAE O-Ring, Pack Of 10	302530R-10
-8 SAE O-Ring Plug & O-Ring	54028P	-6AN To GM 16mm x 1.5 Or O-Ring, Steel Fuel Filter Fitting Adapter	30196
Replacement -8 SAE O-Ring, Pack Of 10	540230R-10	Factory GM LS1 Fuel Rail Push-On Inlet Adapter Fitting, Converts To -6AN	54028
-6 SAE O-Ring To -6AN, Fitting & O-Ring	30251-1	FAST™ 0-100 psi EFI Fuel Pressure Gauge, 1/8 NPT Rear Inlet (Works w/ All FAST™ Fuel Pressure Regulators)	54027G
-6 SAE Socket Hex Port Plug w/ O-Ring	30273-1	Billet -6AN Inlet/Outlet Mini Filter	30272
-6 SAE O-Ring To -8AN Straight Fitting w/ O-Ring	30281-1	GM OEM EFI Fuel Filter (Steel)	30195
Replacement -6 SAE O-Ring, Pack Of 10	302510R-10	Fuel Injector Bungs, Pack Of 8 (See Page 51 for Specs)	307017
-6AN To -6AN Female Coupler	30274-1	Universal Fuel Rail (See Page 50 for Listings and Specs)	-
-6AN To Push-Lock Nipple, Straight	30275-1		
-6AN 90° Push Lock Fitting	30276-1		



#307030

## Fuel Pressure Regulators

The FAST™ Adjustable Fuel Pressure Regulator is a premium CNC billet regulator designed to exact specifications by FAST™ engineers. The unit features twin -6 SAE feed side ports and one -6 SAE return port on the bottom. The fully adjustable unit is vacuum referenced and utilizes a hex adjustment stud with jam nut. The unit has a 1/8 NPT gauge port as well. The regulator is part of a kit that includes the unit, mounting bracket, 1/8 NPT plug and 1/8 NPT to 3/16" barb. The regulator can be used with a single feed (plug second feed) or with dual feeds. Requires the purchase of port fittings separately (all three ports are -6 SAE o-ring type) and can be selected from the FAST™ fuel fitting section.

30-70 PSI Adjustable Fuel Pressure Regulator, -6 SAE O-Ring Ports (1 Return, 2 Feeds)	307030
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## OEM-Type Fuel Pressure Regulators

Fuel Regulator – 5.0L Mustang	307024
Fuel Regulator – GM 25-60 PSI	307025
Fuel Regulator – LT1 Corvette	307026
Fuel Regulator – LT1 Firebird	307027



## Electronic Fuel Pressure Kit

The Electronic Fuel Pressure Kit provides electronic fuel pressure measurement capability in an easy and affordable kit. It obtains an accurate and instantaneous fuel pressure measurement that can be used to improve fuel delivery accuracy and provide an accurate signal for data acquisition. The kit offers OEM reliability by including a GM OEM sensor designed to function and remain durable in the engine environment. It can measure oil pressure or other fluids in the 0-100 psi range for any application. For use with XFI 2.0™ or other suitable EFI systems.

Kit includes: billet aluminum mounting block with two -8 SAE o-ring type female connections ports, spacer and mounting hardware for easy connection and two -8 to -6 AN fitting

Electronic Fuel Pressure Kit	301410
------------------------------	--------

# Air/Fuel Meters



**FREE  
DOWNLOAD**  
Optional Software  
Available @  
[fuelairspark.com](http://fuelairspark.com)



- Ideal for carbureted & EFI engines
- Available in single or dual sensor units
- Built-in data logging; no laptop required
- Meters for gasoline, diesel & E85 fuels
- PC-based software analysis tool
- RPM-based option

## Air/Fuel Meters

With no laptop required, FAST™ has developed three simple, easy-to-use air/fuel meters for gasoline, diesel and Ethanol/Methanol (E85) fuels. Available in single or dual sensor units, these meters give tuners the power to read two wide-band O<sub>2</sub> sensors individually or to average them together for maximum accuracy of the engine's air/fuel ratio reading. FAST™ Air/ Fuel Meters include several enhanced capabilities, including the built-in data logging function that plays back recorded information on a lighted, full graphical display screen rather than using a laptop computer. Additional features include outputs for external data loggers, digital gauges, and a narrow-band simulator function that allows you to feed your engine's computer a factory signal while using the wide-band sensor for air/fuel measurement.

Gasoline Air/Fuel Meter (Single Sensor)	170401	Diesel Air/Fuel Meter (Single Sensor)	170701
Gasoline Air/Fuel Meter (Dual Sensor)	170402	Diesel Air/Fuel Meter (Dual Sensor)	170702
Motorcycle Gasoline Air/Fuel Meter (Single Sensor)	170501	Ethanol/Methanol Air/Fuel Meter (Single Sensor)	170590
Motorcycle Gasoline Air/Fuel Meter (Dual Sensor)	170502	Ethanol/Methanol Air/Fuel Meter (Dual Sensor)	170608
Dyno Gasoline Air/Fuel Meter (Single Sensor)	170601	Master Tuner Dual Sensor Air/Fuel Meter Kit	170614
Dyno Gasoline Air/Fuel Meter (Dual Sensor)	170602		



#170614

## Replacement Accessories

Threaded O <sub>2</sub> Sensor Bushing (Weld-In)	30168
Replacement Wide-Band O <sub>2</sub> Sensor	170408
Single To Dual O <sub>2</sub> Meter Conversion Kit	170445
Replacement Cable (6 ft. w/ Power Lead)	170462
Replacement Cable (6 ft.)	170463
Replacement Cable (12 ft. w/ Power Lead)	170480
Replacement Cable (12 ft.)	170481
Replacement Cable (22 ft. w/ Power Lead)	170460
Replacement Cable (22 ft.)	170461



# Air/Fuel Meters ACCESSORIES

## Digital Air/Fuel Meter RPM Module

Compatible with all FAST™ Digital Air/Fuel Meters, the FAST™ Air/Fuel Meter RPM Module monitors and records engine RPM data that can be overlaid with air/fuel ratio readings. It can be calibrated with the touch of a button, and the module plugs in-line with your existing O<sub>2</sub> sensor harness. The FAST™ Air/Fuel Meter RPM Module comes with everything you need, including the installation CD, communications cable, USB cable adapter, power source, RPM module, clip-on inductive pick-up and full instructions to get you up and running in no time.

Digital Air/Fuel Meter RPM Module

170536



#170536

## Air/Fuel Ratio Module Kits

FAST™ engineers have developed a kit that makes it easy for anyone to measure an engine's air/fuel ratio. This plug-and-play universal O<sub>2</sub> sensor processing kit allows your data acquisition system or dyno software to record and display air/fuel ratios. Since it uses fully automatic sensor calibration, there's no need for manual "free-air" calibration that competitive units require. Additionally, each sensor kit is a standalone unit, so using multiple kits for measuring all your engine's cylinders is easy. Compatible with FAST™ Digital Air/Fuel Meters.

Air/Fuel Ratio Module Kit

170579

XFI™ Wide-Band Auxiliary Air/Fuel Ratio Module Kit

170577

Air/Fuel Ratio Module Kit (4 Pin AMP Connector)

170636

High Resolution Wide Band O<sub>2</sub> Module

1706472



#170577

## Digital Air/Fuel Meter Interior Mount Kit

When hot-rodding down the street, it's hard to safely read air/fuel data if the meter is sliding around. For easy viewing and safety, the FAST™ Air/Fuel Meter Interior Mount Kit allows you to attach your FAST™ Digital Air/Fuel Meter to the windshield with a removable suction cup system. The suction cup mounts to the meter through adhesive tape; no drilling or gluing required.

Digital Air/Fuel Meter Interior Mount Kit

170493



#170493

## Wide-Band Air/Fuel Gauge Kit

The FAST™ Wide-Band Air/Fuel Gauge Kit combines an economical and extremely accurate 2 1/16" gauge, Bosch wide-band oxygen sensor and standalone sensor control unit that mounts quickly and easily in the interior of any vehicle. Backlit for easy night viewing and wired so it is powered up whenever the engine is running, this kit is not only for serious power tuning but also ideal for monitoring the overall fuel tune of the engine when daily driving or making passes at the track. Kit includes gauge, module, harness, sensor and bung.

Wide-Band Air/Fuel Gauge Kit

170634



#170634

Value Priced!

## EZ Clamp-On Tailpipe Wide-Band Sensor Mount Kit

Made of stainless steel and convenient for quick oxygen sensor tests, this easy-to-use FAST™ kit slides into the tail pipe to prevent welding. The actual O<sub>2</sub> sensor screws into the kit, which includes a rubber cover to prevent damage to polished exhaust tips.

EZ Clamp-On Tailpipe Wide-Band Sensor Mount Kit

170620



# Electronics



## EZ-TCU™ Transmission Controller

For computer controlled transmissions, nothing beats the TCI® EZ-TCU™ Transmission Controller. The EZ-TCU™ allows for maximum electronic control over shift points, shift firmness and shift speed. No software, laptop or tuning experience is required, and power data logging and self diagnostics allow users of every skill level to fully utilize the unit. Simply install it according to the enclosed instructions, and then start the system by answering the simple Setup Wizard questions on the included hand-held unit. It's that easy; the EZ-TCU™ does all the work for you!

The EZ-TCU™ is fully configured and ready to run right out of the box – no tuning necessary. But for those who demand customization, the unit is also optionally fully programmable based on load, speed and RPM. The EZ-TCU™ programming interface is completely intuitive. There is no real expertise needed if you want to custom program your calibration. The EZ-TCU™ is capable of real-time switchable calibrations, which allows for multiple setups. Run one calibration on the way to the track, and then, with the push of a button, have a more aggressive setup ready for the race. The multiple shift modes include full manual mode for using bump switch or paddle shifters.

- Maximum control over shift points, shift firmness and shift speed
- No software, laptop or experience needed
- Completely intuitive programming interface or optional fully programmable based on load, speed and RPM
- Multiple shift modes include full manual mode
- Compatible with popular GM transmissions, including 4L60E, 4L65E, 4L70E, 4L80E, and 4L85E, as well as the TCI® 6x Six-Speed™
- Included hand-held can operate as electronic dash
- Includes transmission control unit, hand-held and wiring harness

EZ-TCU™ Transmission Controller	30282-KIT
EZ-TCU™ Transmission Controller 2009 & 4L65E/70E	30299-KIT
EZ-TCU™ Hand-Held Vehicle Mount Kit	170493

## FAST-FLASH™ Power Programmers

FAST-FLASH™ Power Programmers unlock hidden performance potential for maximum horsepower and torque. Just plug the programmer into your vehicle's OBDII port and answer a few questions. The FAST-FLASH™ automatically reprograms your vehicle's computer for idle quality, air/fuel ratios, ignition timing, shift points and more.

Vehicle	Engine	Year	Part
Chevrolet/GMC Full Size Truck/Van	4.8L, 5.3L, 6.0L	1999-2005	170382
Chevrolet/GMC Full Size Truck/Van, Suburban, Tahoe	5.0L, 5.7L	1996-1997	170383
Chevrolet Full Size Truck	5.0L, 5.7L	1998	170382
Chevrolet Camaro	5.7L	1999-2002	170382
Chevrolet Corvette	5.7L	1999-2002	170382
Chevrolet/GMC Full Size Truck/Van	7.4L	1996-1997	170383
Chevrolet/GMC Full Size Truck/Van	7.4L	1998-2000	170382
Chevrolet Full Size Truck/Van	8.1L	1999-2005	170382
Pontiac Firebird, Trans Am	5.7L	1999-2002	170382
Pontiac GTO	5.7L	2004	170382



#170382



# Miscellaneous ACCESSORIES

## Die Cast Aluminum Valve Covers

FAST™ Die Cast Aluminum Valve Covers are designed both to perform and to create a matching package with the FAST™ EZ-EFI 2.0® and FAST™ Aluminum Air Cleaners. Branded with the FAST™ logo, these black-wrinkle powder coated valve covers are manufactured in the USA and offered for Small Block Chevy, Big Block Chevy and Small Block Ford applications. A tall height is designed to clear aftermarket valve trains, while rails on the sealing flange help locate the gasket (SBC only). The valve covers are perimeter-bolt style, and each kit includes breathers.



#3012001

Also available is the SBC Billet aluminum adapter kit that enables mounting traditional Gen 1 Small Block Chevy valve covers on a Gen III/IV LS engine. Specifically, the adapters work with center bolt LS heads and perimeter bolt traditional SBC valve covers.

Die Cast Aluminum Valve Covers for Small Block Chevy	3012001
Die Cast Aluminum Valve Covers for Big Block Chevy	3011011
Die Cast Aluminum Valve Covers for Small Block Ford	3035001
Small Block Chevy Valve Cover Adapter Kit for LS Engines	NG4011

## Valve Cover Gaskets

RHS® offers high-quality valve cover gaskets that are made from a silicone-reinforced material for superb sealing characteristics and are designed for reliable, leak-free performance, even when used in high-powered race engines.



#1712

Small Block Chevy	.120" Thick Paper w/ Silicone	1709
Big Block Chevy	.120 Thick Paper w/ Silicone	1712
Small Block Ford	.120 Thick Paper w/ Silicone	1715

## Terminal Tools

Weatherpack style terminals offer many significant benefits over conventional terminals, including superior resistance to the elements and a mechanically secure connection. But without the correct tools, they can prove very difficult to assemble and service. This series of terminal service tools from FAST™ is the ideal solution for the removal and installation of many types of Weatherpack connectors and will provide years of dependable service.

Yellow Extractor Tool	307065
Green Extractor Tool	307066
Crimp Tool	307067
Wire Stripper	307068



#307068

#307065

#307067

#307066

# Miscellaneous

## MAXJET™ PRECISION CARB JETS

Often you will hear a racer say, "I made two jet changes, but the engine still didn't run properly." The reason for this relates directly to the jets being used. Other jets are mass-produced with a wide tolerance, then plated. Many of these jets use the same orifice size with the only difference being different angle tapers that supposedly change the flow-rate characteristics. Other jets also use a slot that requires a special, expensive tool to install. Ultimately, these slots become damaged, and that damage creates a turbulence that severely affects the fuel flow by as much as 50 percent.

MaxJet™ Precision Carb Jets are available from 0.050" to 0.120" in gasoline jets and from 0.121" to 0.140" in alcohol jets. Sizes are in 0.001" increments and are compatible with all known racing fuels. MaxJet™ Precision Carb Jets are easily matched to Holley jets; simply find the Holley size that you are currently using on the left and cross over to the MaxJet™ column to find the corresponding part number.



### Gasoline Jets (1/4-32 thread)

0.050-inch – Holley 52	MJ50-2	0.087-inch – Holley 80	MJ87-2
0.051-inch – Holley 53	MJ51-2	0.088-inch – N/A 80.50	MJ88-2
0.052-inch – Holley 54	MJ52-2	0.089-inch – Holley 81	MJ89-2
0.053-inch – Holley 55	MJ53-2	0.090-inch – Holley 82	MJ90-2
0.054-inch – Holley 56	MJ54-2	0.091-inch – N/A 82.25	MJ91-2
0.055-inch – Holley 57	MJ55-2	0.092-inch – N/A 82.50	MJ92-2
0.056-inch – Holley 58	MJ56-2	0.093-inch – Holley 83	MJ93-2
0.057-inch – Holley 59	MJ57-2	0.094-inch – Holley 84	MJ94-2
0.058-inch – Holley 60	MJ58-2	0.095-inch – Holley 85	MJ95-2
0.059-inch – Holley 61	MJ59-2	0.096-inch – Holley 86	MJ96-2
0.060-inch – Holley 62	MJ60-2	0.097-inch – N/A 86.50	MJ97-2
0.061-inch – Holley 63	MJ61-2	0.098-inch – Holley 87	MJ98-2
0.062-inch – Holley 64	MJ62-2	0.099-inch – N/A 87.50	MJ99-2
0.063-inch – Holley 65	MJ63-2	0.100-inch – Holley 88	MJ100-2
0.064-inch – Holley 66	MJ64-2	0.101-inch – Holley 89	MJ101-2
0.065-inch – Holley 67	MJ65-2	0.102-inch – Holley 90	MJ102-2
0.066-inch – Holley 68	MJ66-2	0.103-inch – N/A 90.50	MJ103-2
0.067-inch – Holley 69	MJ67-2	0.104-inch – Holley 91	MJ104-2
0.068-inch – N/A 69.25	MJ68-2	0.105-inch – N/A 91.50	MJ105-2
0.069-inch – N/A 69.50	MJ69-2	0.106-inch – Holley 92	MJ106-2
0.070-inch – N/A 69.75	MJ70-2	0.107-inch – N/A 92.50	MJ107-2
0.071-inch – Holley 70	MJ71-2	0.108-inch – Holley 93	MJ108-2
0.072-inch – N/A 70.25	MJ72-2	0.109-inch – N/A 93.25	MJ109-2
0.073-inch – N/A 70.50	MJ73-2	0.110-inch – N/A 93.50	MJ110-2
0.074-inch – N/A 70.75	MJ74-2	0.111-inch – Holley 94	MJ111-2
0.075-inch – Holley 71	MJ75-2	0.112-inch – Holley 95	MJ112-2
0.076-inch – Holley 72	MJ76-2	0.113-inch – Holley 96	MJ113-2
0.077-inch – Holley 73	MJ77-2	0.114-inch – N/A 96.25	MJ114-2
0.078-inch – Holley 74	MJ78-2	0.115-inch – N/A 96.50	MJ115-2
0.079-inch – Holley 75	MJ79-2	0.116-inch – Holley 97	MJ116-2
0.080-inch – Holley 76	MJ80-2	0.117-inch – Holley 98	MJ117-2
0.081-inch – N/A 76.25	MJ81-2	0.118-inch – Holley 99	MJ118-2
0.082-inch – N/A 76.50	MJ82-2	0.119-inch – N/A 99.50	MJ119-2
0.083-inch – Holley 77	MJ83-2	0.120-inch – Holley 100	MJ120-2
0.084-inch – Holley 78	MJ84-2		
0.085-inch – N/A 78.50	MJ85-2	<b>Alcohol Jets</b>	
0.086-inch – Holley 79	MJ86-2	0.121-inch Alcohol	MJ121-2
		0.122-inch Alcohol	MJ122-2

0.123-inch Alcohol	MJ123-2
0.124-inch Alcohol	MJ124-2
0.125-inch Alcohol	MJ125-2
0.126-inch Alcohol	MJ126-2
0.127-inch Alcohol	MJ127-2
0.128-inch Alcohol	MJ128-2
0.129-inch Alcohol	MJ129-2
0.130-inch Alcohol	MJ130-2
0.131-inch Alcohol	MJ131-2
0.132-inch Alcohol	MJ132-2
0.133-inch Alcohol	MJ133-2
0.134-inch Alcohol	MJ134-2
0.135-inch Alcohol	MJ135-2
0.136-inch Alcohol	MJ136-2
0.137-inch Alcohol	MJ137-2
0.138-inch Alcohol	MJ138-2
0.139-inch Alcohol	MJ139-2
0.140-inch Alcohol	MJ140-2

\* All jets available in single units. Simply change -2 to -1.

### Jet Kits

MJ50-2 to MJ60-2	MJ5060
MJ61-2 to MJ71-2	MJ6171
MJ72-2 to MJ82-2	MJ7282
MJ83-2 to MJ93-2	MJ8393
MJ94-2 to MJ 104-2	MJ94104
MJ105-2 to MJ115-2	MJ105115
MJ116-2 to MJ126-2	MJ116126
.070 – .088 Even Jets Only	MJ1000-KIT
.090 – .108 Even Jets Only	MJ2000-KIT

### Accessories

Large Storage Box	MJ1-5
Nut Driver	MJ1-1
Holder Plates	MJ2-1
Brass Jet Extension	MJEXT-2



# Miscellaneous MERCHANDISE



#30999911  
(Front)

#30999901  
(Back)

#30999929

#30999923

## Apparel

### FAST T-Shirts

	White Shirt	Black Shirt
Logo T-Shirt (Medium)	30999901	30999911
Logo T-Shirt (Large)	30999902	30999912
Logo T-Shirt (XL)	30999903	30999913
Logo T-Shirt (XXL)	30999904	30999914

### EFI T-Shirts

EFI T-Shirt (Small)	30999923
EFI T-Shirt (Medium)	30999924
EFI T-Shirt (Large)	30999925
EFI T-Shirt (XL)	30999926
EFI T-Shirt (XXL)	30999927
EFI T-Shirt (XXXL)	30999928

### Hat

EFI Hat (Flex Fit)	30999929
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#30059



#30046

Fabric Banner (3' x 8')	30059
Contingency Decal (12")	30046
Decal (24")	30338
EZ-EFI® Badge	170655
XFI® Badge	170656



## Frequently Asked Questions

### What is the most common mistake customers make?

The most common problem FAST™ technicians see is the failure to connect power wires directly to the battery. For the best possible electrical noise rejection and immunity, the battery (-) and (+) wires MUST be connected DIRECTLY to the battery terminals. You should not consolidate, splice into other grounds or 12-volt sources or otherwise modify these wires. DO NOT connect to power or ground distribution blocks, fuse blocks, switched ignition power sources, the body or chassis of the vehicle, any part of the engine, transmission or other power or ground sources.

### Should I use an in-tank or inline fuel pump?

Inline fuel pumps are easier to install than in-tank pumps because the fuel tank does not have to be removed. They are placed outside and below the fuel tank rather than inside. However, FAST™ engineers recommend using an IN-TANK fuel pump rather than inline when possible for the following reasons: always primed, run cooler, run quieter, used by OEMs, and allow for a single line returnless fuel setup.

### What are the advantages and differences between the XFI 2.0™ unit and my older “classic” system?

The XFI 2.0™ computer processor is four times faster than the “classic” system, allowing it to control more features simultaneously. It also uses a 104 pin wire harness versus the 60 pin wire harness on the “classic” system. Additionally, performance features that had to be purchased separately with the “classic” FAST™ system are now included with XFI 2.0™ at no additional cost. Just click on the features you want to control in the included tuning software, i.e. four stage power adder control, boost control, traction control, etc. The XFI 2.0™ can also be run in either batch fire or sequential mode.

### How can I upgrade my XFI™ to XFI 2.0™?

Upgrading your original XFI™ requires a flash update to the C-Com® XFI™ Windows-based software and can be e-mailed directly to you. Call a FAST™ technical service rep to have the file emailed. He or she will simply need to know the serial number of your unit. The unit does not need to be sent to FAST™, but if you wish to have your cover updated to reflect the change, the unit may be shipped to FAST™ for replacement for a small fee.

### With the XFI 2.0™ system, do I need a separate data logger?

The XFI 2.0™ can be purchased with or without Internal Data Logging. If purchased without the data logging feature, the XFI™ will record to a laptop when connected. FAST™ also offers an easy-to-use external data logger that simply plugs into the XFI™. The external data logger will record up to one hour of data and does not require the use of a laptop.

### Can I add the Internal Data Logging and/or Intelligent Traction Control™ options to my existing XFI™ ECU?

The answer is yes. Internal Data Logging can be added as a download via e-mail, or FAST™ can send a CD with the necessary option file. To upgrade an existing XFI™ to Intelligent Traction Control™, you will need to send in the ECU, and FAST™ will upgrade it with the option file and a new billet enclosure that clearly identifies the ECU as having this option. You must call first and obtain a Return Authorization Number before sending an ECU in for this upgrade.

### What's the difference between “batch firing” or “bank-to-bank” vs. “sequential” systems? Which do I need?

Batch fire systems fire all the injectors simultaneously. Bank-to-bank systems fire the fuel injectors in “banks”; half of them fire on one engine revolution and the other half fire the next engine revolution. A sequential system fires the fuel injector for each individual cylinder in the firing order of the engine. In most cases, bank firing will be fine, but if you're using an extremely radical camshaft, high boost or over 600 horsepower, you might find sequential to be a slightly better fit. It will usually make marginally more power and help some radical engines idle better.

### What is the Self Learning Auto Tuning VE Table?

The Self Learning Auto Tuning VE Table has two components. The first is a process known as closed loop fuel control. Using feedback from an oxygen sensor in the exhaust stream, it constantly makes fueling adjustments to compensate for different engine conditions. The system works best when operating with well tuned base VE/fuel tables, but it can also help compensate for less than perfect base tables. The Adaptive Learning aspect goes far beyond normal closed loop fuel control. It uses oxygen sensor feedback to adjust the underlying base VE table and significantly reduce the amount of hand tuning required. The whole process can also be turned off to allow for manual tuning.

### Do I need fuel rails, injector spacers or other upgrades to install the LSX<sub>R</sub>™ or LSX<sub>RT</sub>™ Manifold?

This depends on several factors. Refer to the application chart on page 48. FAST™ recommends using FAST™ Billet Fuel Rail Kits for the best appearance and performance.

### Do I need a special type of intake manifold for my EZ-EFI® system?

No. Any manifold you have used with a 4 barrel carburetor will work with this system. It has been tested with dual and single plane intakes. However, as with carburetors, using adaptor plates to adapt a 4 barrel to 2 barrel is not recommended due to poor air and fuel distribution.

# Limited Warranty

## Limited Warranty and Limited Lifetime Warranty

FAST® warrants that its EZ-EFI® and CD Ignition boxes are free from defects in material and workmanship for the lifetime of the product. This **Limited Lifetime Warranty** shall cover only the original purchaser. All other FAST® products are covered by a **Limited Warranty** which covers defects in material and workmanship for a period of **one year** from the date of purchase.

**FAST®'s obligation under this warranty is limited to the repair or replacement of its product.** To make a warranty claim, the part must be returned directly to FAST® at the address listed below with a valid Return Merchant Authorization Number (RMA), freight prepaid. Items covered under warranty will be returned to you freight collect. To obtain an RMA, call 877-334-8355 to report the issue you are experiencing. At that time, FAST® will attempt to trouble shoot your issue.

**It is the responsibility of the installer to ensure that all of the components are correct before installation. We assume no liability for any errors made in tolerances, component selection or installation.**

There is absolutely no warranty on the following:

- A. Any parts used in racing applications or subject to excessive wear;
- B. Any product used in marine applications, unless that product is listed by FAST® as a specific marine product;
- C. Any product that has been physically altered improperly installed or maintained;
- D. Any product used in improper applications, abused, or not used in conjunction with the proper parts.

**There are no implied warranties of merchantability or fitness for a particular purpose.** There are no warranties which extend beyond the description of the face hereof. **FAST® will not be responsible for incidental and consequential damages, property damage or personal injury damages.** Where required by law, implied warranties or merchantability and fitness are limited to terms outline above.

This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.

## Making a Warranty Claim

- A. Contact FAST™ within the warranty period at 3400 Democrat Rd, Memphis, TN 38118 or by phone at (877) 334-8355 Monday – Friday 8:00 a.m. to 5:00 p.m. CST. Before any merchandise is returned for warranty, please contact FAST™ to obtain a Return Material Authorization (RMA). FAST™ will need a specific and detailed description of your problem, along with the type of product and information about you for contact purposes.
- B. Send the merchandise, freight prepaid and insured to FAST™ at the address below, along with dated proof of purchase. All merchandise returned for warranty must be accompanied by an RMA. The purchaser must prepay transportation charges for return of defective parts. FAST™ is not liable for any taxes or duties associated with international shipments.

FAST™ is a proud member of the COMP Performance Group™ family.  
Other CPG companies include:



compcams.com  
1.800.999.0853



tciauto.com  
1.888.776.9824



racingheadservice.com  
1.877.776.4323



zex.com  
1.888.817.1008



inglese.com  
1.866.450.8089



powerhouseproducts.com  
1.800.872.7223



quartermasterusa.com  
1.888.258.8241



proracingsim.com  
901.259.2355

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## The Leading Name In Fuel Air Spark Technology.

FAST™ has long been recognized as the leading developer of advanced electronic fuel injection technology. Year after year, our engineers have created innovative new products never before seen in the EFI performance aftermarket. And with technical assistance that is beyond comparison, FAST™ has been able to build close relationships with customers, many of which have helped our Research & Development team stay on top.

FAST™ continues to drive the aftermarket industry through constant in-house new product development. We don't subcontract out the development of our systems to third party firms. And with a complete line of superior, easy-to-use EFI systems, intake manifolds, ignition systems and other EFI components, FAST™ is committed to bringing the best fuel injection experience to both racers and street enthusiasts everywhere.

**FAST™ NOW OFFERS A FULL LINE OF IGNITION PRODUCTS!**

FAST™

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 [facebook.com/FASTWins](https://facebook.com/FASTWins)

 [twitter.com/FASTEFI](https://twitter.com/FASTEFI)

### Tech Support Options

If you have a technical question, please contact us by one of these Tech Support Options and a FAST™ fuel injection specialist will assist you.



PHONE: 1.877.334.8355



TWITTER: @CPGTech



EMAIL & CHAT: [fuelairspark.com](http://fuelairspark.com)



FORUMS: [CPGNation.com](http://CPGNation.com)



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