



# FUEL INJECTORS

FJ Series Part Numbers

*Durable. Fuel Efficiencies. Performance.*

*Delphi Fuel Injectors.*

*Innovation for the Real World.*

## PRODUCT HIGHLIGHTS

- Comprehensive coverage includes throttle body, central port and multi-port fuel injectors. Injectors are also sold individually – not in sets – to allow for greater variety of selling options
- Improved fuel economy and minimal fuel leakage during vehicle idle due to extremely low drip tip
- Accurate metering even during extreme temperature and condition (-40°F to 230°F). Tailored to deliver pressurized, atomized fuel to each cylinder in precise proportions required
- Optimal performance due to extra fuel filtering protection to eliminate contaminants
- Reduced noise when engine is running
- Wide range of domestic applications due to compatibility with different ethanol and alcohol fuel blends



## FEATURES

## BENEFITS

Multec Two injectors inject fuel with smaller droplet size	Improved engine output and fuel economy due to vaporizing fuel more efficiently and optimizing combustion
Six-hole orifice on multi-port fuel injector and throttle body injector	Fast engine starts with controlled metering
Reduced spray variation, accurate fuel spray pattern	Better emissions and cold start capabilities
No internal seal rings	Minimized leakage
Recessed fuel exit	Minimized possible plugging
Thermally isolates fuel from engine	Eliminates engine hesitation due to vapor lock by drawing manifold heat away from the fuel rail

## WHY DELPHI

- Delphi injectors are original equipment tested and calibrated in real world applications for exact fit and finish.
- Delphi injectors are durability tested to 150,000 miles.
- Delphi provides mounting clips with almost every injector.
- Delphi has built its fuel injectors to stringent OE requirements to meet federal emissions and fuel economy standards.
- Delphi was the first to use stamped director plates for spray and flow control, and the first to develop durable injectors for ethanol.
- Delphi stamped director plates resist deposit build up longer.
- Delphi's Multec 3.5 E85 flex fuel injector can run on fuel mixture of 100 percent gasoline or fuel blends of up to 85% ethanol.
- Delphi also provides fuel injectors for motorcycles, scooters, all terrain vehicles, lawn equipment and gasoline powered generators.

## DID YOU KNOW?

- Marine fuel injectors provide a higher flow and output than passenger vehicles to accommodate the larger engine displacement.
- Using performance injectors at higher than recommended supply pressures can result in reduced performance.



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## Central Port Injectors

- Reduced EVAP emissions because heat is not transferred to the fuel tank
- Superior engine control in extreme climates using a single electrical connection
- Decreased noise and enhanced engine control during transmission shifts due to its compact, lightweight design
- Each CPI nut kit includes a fuel delivery and fuel return line from the CPI system and chassis fuel lines



### FEATURES BENEFITS

Engine control Module control	Controls the length of time the injector is activated, when a fuel pulse is delivered down a flexible line to the poppet nozzle
Quiet operation	No audible injector noise when engine is running
Thermal insulation of fuel injection system	Reduced EVAP emissions due to heat not being transferred to the fuel tank
Built-in fuel pressure regulator	Enhances engine control during transmission shifts and passing

## Manifold Port Injectors

- Superior engine control in extreme climates using a single electrical connection
- Eliminates replacement or cleaning of poppet nozzles on sequential central port injector (SCPI) due to contaminants in today's fuel

### FEATURES BENEFITS

Compact size and lightweight	Increased fuel economy due to reduction in overall vehicle weight
Sealed design	Eliminates need to clean or replace poppet nozzles due to gasoline deposits
Engineered to be compatible with most fuels	Removes sensitivity to different gasoline blends
Thermal insulation	Better cold starts because less heat penetrates fuel system
Single electrical connection	Simplifies installation

## Performance Injectors

Ten non-application specific performance injectors offering varying degrees of maximum fuel flow and pressure. Line also includes OE racing injectors.



### FEATURES BENEFITS

Incremental static flow	Accurate fuel spray distribution ranges from 30 -95 lbs/hr
Compatible with alcohol fuels	Improved hot fuel handling and fast engine starts
Low tip drip	Improved engine starts, reduced emissions due to reduced tip leakage
Compatible with typical engine controller	Easy installation

## Marine Injectors

Marine injectors, ranging from the 7.4 liter Multec One inboard to the 8.1 liter inboard Multec Two mini injector. Subjected to 60 hour water, salt and antifreeze spray tests during development to verify contaminant protection.



### FEATURES BENEFITS

Viton seal materials	Gas and air leak elimination
Compatible with any marine fuel blend	Internal components are resistant to harsh marine environment and conditions
Compatible with typical engine controller	Easy installation
Accurate fuel spray distribution	Smooth engine operation due to consistent cylinder performance