



VICTOR JR. AND SUPER VICTOR EFI INTAKE MANIFOLDS

For Big Block Chevrolet

Catalog #29025, 29045, 29165, 29275

INSTALLATION INSTRUCTIONS

PLEASE study these instructions carefully before beginning this installation. Most installations can be accomplished with common tools and procedures. However, you should be familiar with and comfortable working on your vehicle. If you do not feel comfortable performing this installation, it is recommended to have the installation completed by a qualified mechanic. If you have any questions, please call our **Technical Hotline at: 1-800-416-8628**, 7:00 am - 5:00 pm, Pacific Standard Time, Monday through Friday or e-mail us at Edelbrock@Edelbrock.com.

IMPORTANT NOTE: Proper installation is the responsibility of the installer. Improper installation will void your warranty and may result in poor performance and engine or vehicle damage.

DESCRIPTION: Edelbrock EFI intake manifolds make it a simple process to convert to electronic fuel injection for competition engines. Injector bosses have been precisely positioned and machined for excellent fuel spray patterns and maximum horsepower. Match with an Edelbrock throttle body and Pro-Tuner EFI engine management system to complete your EFI conversion. **NOTE: These manifolds are not intended, nor legal, for street use on pollution-controlled vehicles. It is the responsibility of the end user to verify conformity to a particular racing association's rules regarding manifold dimensions, aligning to a template, etc.** Individual manifold descriptions are listed below:

- PN 29025:** Victor Jr. 454-R EFI (Up to 7500 RPM). Fits standard deck-height Big Block Chevy engines with rectangular port cylinder heads.
- PN 29045:** Victor Jr. 454-O EFI (Up to 7500 RPM). Fits standard deck-height Big Block Chevy engines with large-oval port cylinder heads.
- PN 29275:** Super Victor BBC EFI (Up to 8500 RPM). Fits standard deck-height Big Block Chevy engines with rectangular port cylinder heads.
- PN 29165:** Super Victor BBC EFI Tall Deck (Up to 8500 RPM). Fits tall-deck Big Block Chevy engines with rectangular port cylinder heads.

ACCESSORIES & INSTALLATION ITEMS: Major recommendations are listed below. However, due to the variety of applications, additional equipment may be required for your specific vehicle.

GASKET RECOMMENDATIONS: The as cast manifold runners for rectangular port cylinder heads (29025, 29165, & 29275) fit well to a Fel-Pro # 1211 intake gasket. The port exits can be port matched to a Fel-Pro 1275 if desired. Manifolds for oval-port cylinder heads (29045) work well with an Edelbrock #7203 intake gasket.

THROTTLE BODY RECOMMENDATIONS:

| Intake Manifold | Throttle Body | Description |
|-----------------|---------------|---|
| 29025* | 3878 | 1000 CFM (1.75" Bores) Standard Flange with Delphi/GM IAC |
| 29045* | 38783 | 1000 CFM Standard Flange with Hitachi Linear IAC*** |
| 29275** | 3879 | 1600 CFM (2" Bores) 4500 Series Flange with Delphi/GM IAC |
| 29165** | 38793 | 1600 CFM with Hitachi Linear IAC*** |
| | 3888 | 2000 CFM (2.25" bores) with Delphi/ GM IAC |
| | 38883 | 2000 CFM with Hitachi Linear IAC*** |

- * If using tall injectors, such as AC Rochester 2.65" o-ring spacing injectors, then a throttle body spacer may be needed in order for the throttle body linkage assembly to clear the top of the fuel rail. If using shorter injectors, such as Pico injectors, the need for the spacer may be eliminated. Clearance is dependent on which Throttle Body and fuel rails are being used. Edelbrock offers spacers such as our one-inch carburetor spacer, #8710 which may be used. See our Catalog for details.
- ** A one inch throttle body spacer is provided with these manifolds. The spacer must be used in order to prevent throttle body linkage interference with Edelbrock fuel rails or possibly other fuel rails being used.
- *** Throttle body with Hitachi Linear IAC is required when using Edelbrock/MotoTron ECU.

FUEL RAIL KIT RECOMMENDATIONS: Edelbrock Big Block Chevy EFI Fuel Rail Kit #3633 is recommended.

NOTE: Intake Manifold #29025 and Fuel Rail Kit #3633 may be purchased together under part #29026. Manifold 29275 & Fuel Rail Kit #3633 may be purchased as #29276. Manifold 29165 & Fuel Rail Kit #3633 may be purchased as #29166.

Fuel Rail Kit includes the following:

- 2 Machined fuel rail extrusions (Ends tapped for 3/8" NPT)
- 4 Fuel rail bracket stands
- 4 1/4-20 x 1/2" socket head bolts
- 4 1/4-20 x 1-1/4" hex head bolts
- 8 1/4" flat washers
- 4 1/4" lock washers
- 4 1/4-20 hex nuts

MANIFOLD TORQUE: Torque all manifold bolts circled in Figure 1 to 25 ft./lbs. **See Figure 1 for proper sequence.**

FUEL INJECTORS: It is important to select the appropriate electronic injectors for optimum performance. The injectors must not only match the fuel demands of an engine, but they must also meet the electronic commands of the engine control unit (ECU).

FUEL INJECTOR INSTALLATION: Apply a small amount of O-Ring Lubricant (Brake Assembly Lube) to the injector o-rings prior to assembly, and press the injectors firmly into the intake manifold. Make sure to also lubricate the o-rings before pressing the fuel rail onto the fuel injectors.

NOTE: After the fuel rail system is fully assembled, each fuel injector should rotate freely in its bore.

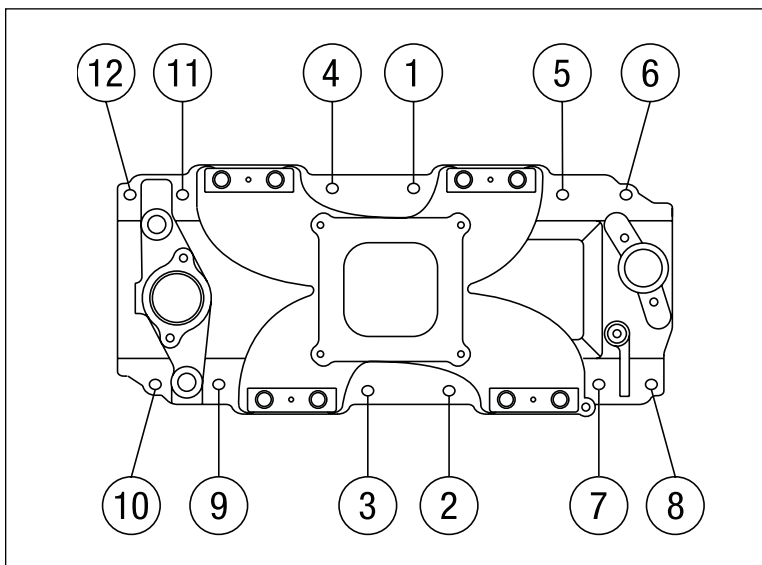


Figure 1 - Bolt tightening sequence, tighten bolts to 25 ft./lbs.



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