

OVERHAUL

DISASSEMBLY

NOTE: Before performing any service on throttle body assembly, it is essential that throttle body be placed on a holding fixture (J-9789-118, BT 30-15 or equivalent) to prevent damage to throttle valve. Disassembly of each throttle body unit is the same. **DO NOT** interchange components between front and rear units.

Fuel Meter Cover

1. Remove 5 cover-to-meter body screws and lock washers. Lift off fuel meter cover with fuel pressure regulator assembly (rear unit) or accumulator assembly (front unit) attached.
2. **DO NOT** remove fuel meter cover gasket at this time. See **Fig. 6** . Remove fuel pressure regulator (rear unit) or accumulator (front unit) dust seal from fuel meter body.

WARNING: **DO NOT** remove 4 screws attaching pressure regulator (accumulator) to fuel meter cover. The regulator (accumulator) includes a spring under heavy tension which may cause personal injury if released. Fuel meter cover and pressure regulator (accumulator) are serviced as an assembly only. **DO NOT** immerse assembly in any type of cleaning solvent.

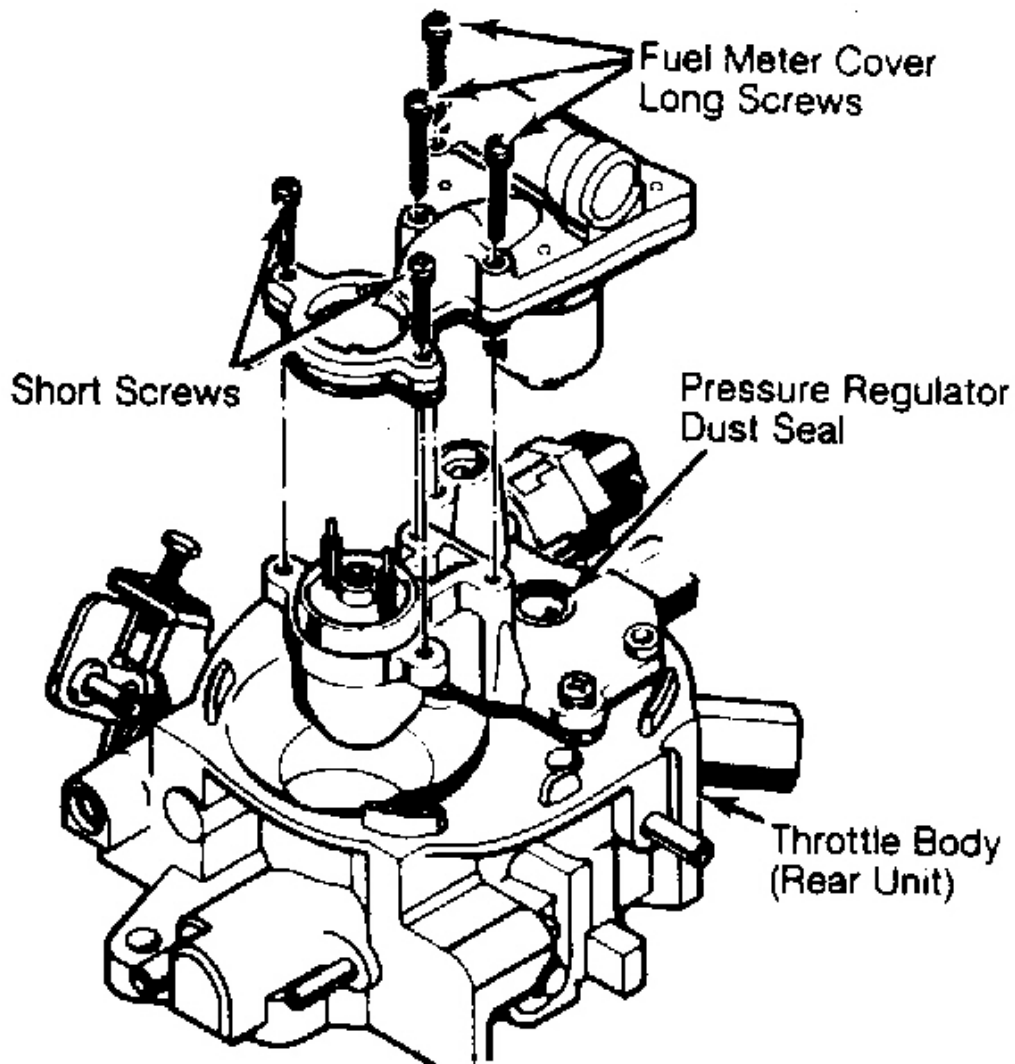


Fig. 6: Removing Fuel Meter Cover Assembly Do not remove fuel meter cover gasket at this time.

Fuel Injector

1. With fuel meter cover gasket in place, use a screwdriver to carefully pry the injector from the fuel metering body. Carefully lift injector out with a twisting motion. Remove fuel meter cover gasket. See **Fig. 7**.

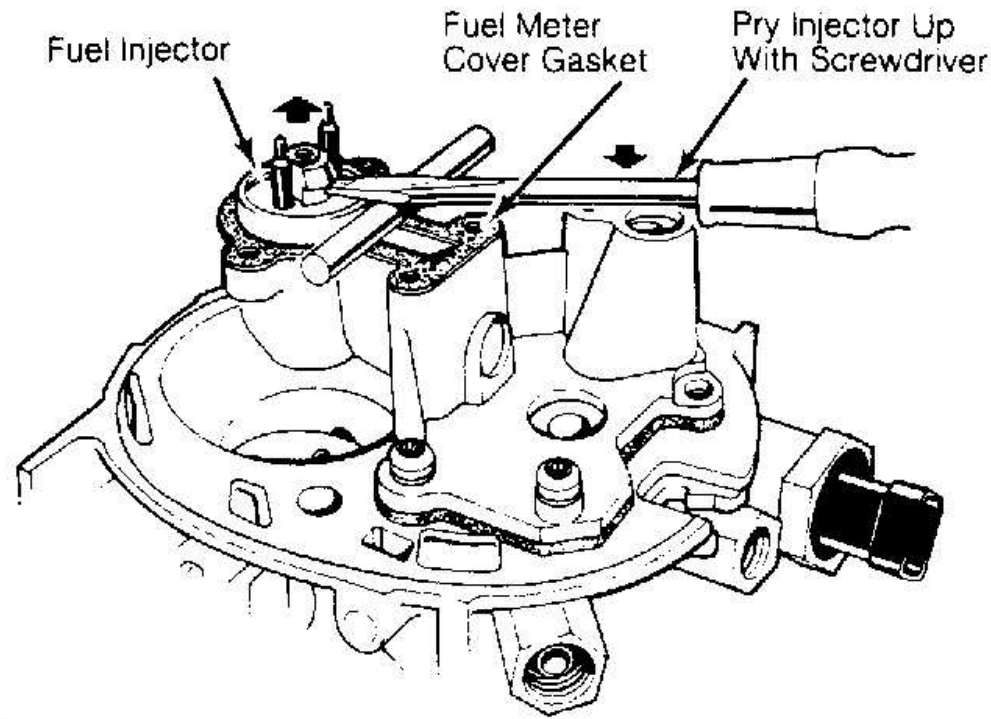


Fig. 7: Removing Fuel Injector Assembly Keep fuel meter cover gasket in place until injector is removed to prevent damage to casting.

CAUTION: Use care in removing injector to prevent damage to electrical connectors, fuel filter and nozzle. Injectors are serviced as complete assembly only and are not interchangeable between front and rear units.

- Carefully rotate injector filter back and forth to remove from base on injector. Remove large "O" ring and steel back-up washer on top of injector cavity in fuel meter body. Remove small "O" ring at bottom of injector cavity.

Fuel Meter Body

Remove fuel inlet and outlet nuts and gaskets from fuel meter body. Remove air cleaner stud (if equipped). Remove 3 fuel meter body-to-throttle body screws and lock washers. Remove fuel meter body and gasket.

Throttle Body

- Disassembly of throttle body unit for immersion in cleaning solvent requires removal of TPS (rear unit)

and IAC assemblies. Throttle valve screws are staked in position and should not be removed. If necessary to remove TPS, continue as follows:

2. Invert throttle body assembly and place on clean, flat surface. Remove TPS attaching screws from rear unit. Remove lock washers, retainers and TPS from throttle body.
3. Remove IAC assembly and gasket from each throttle body. Remove and discard IAC gaskets. Any residue of thread locking compound on the IAC threads should be allowed to remain.

CAUTION: Three different designs of IAC valve are used. Replacement valves must be of the same design.

CLEANING & INSPECTION

1. Clean all metal parts in a cold immersion-type cleaner and blow dry with compressed air. Inspect mating casting surfaces for damage that may prevent gasket sealing.
2. **DO NOT** immerse TPS, IAC, fuel meter cover (with regulator or accumulator), fuel injector, or rubber parts and diaphragms in cleaner.

REASSEMBLY

Throttle Body

1. Invert throttle body on clean, flat surface. Pintle position in the IAC assembly must be checked prior to installation in throttle body. Measuring from gasket mounting surface of IAC assembly to point of pintle.
2. Distance must not exceed 1 1/8" (28 mm). If not to specification, push pintle inward. Slight side-to-side motion may be helpful. Install IAC assembly with new gasket.
3. Install TPS on rear throttle body with throttle valves in the normal closed idle position.

Fuel Meter Body

1. Place throttle body on holding fixture to avoid damaging throttle valve. Install fuel meter body gasket on throttle body. Cutout portions of gasket must match cutouts on throttle body. Install fuel meter body on gasket.
2. Apply thread locking compound (Loctite 262 or equivalent) on 3 attaching screws. Install lock washers and screws. Tighten screws. Install fuel inlet and outlet nuts with new gaskets.

Fuel Injector

1. Using a slight twisting motion, install fuel injector filter on nozzle end of injector until seated against injector base.

NOTE: Filter is cone-shaped. Large end of filter points up toward injector electrical connectors. Filter should cover raised rib at base of injector.

2. Lubricate all "O" rings with automatic transmission fluid. Push small "O" ring on nozzle end of injector

until seated against injector fuel filter. Install steel back-up washer in top recess in injector cavity of fuel meter body.

3. Install large "O" ring directly above back-up washer. Press "O" ring down in cavity recess until flush with top of fuel meter body casting surface. See **Fig. 8**.

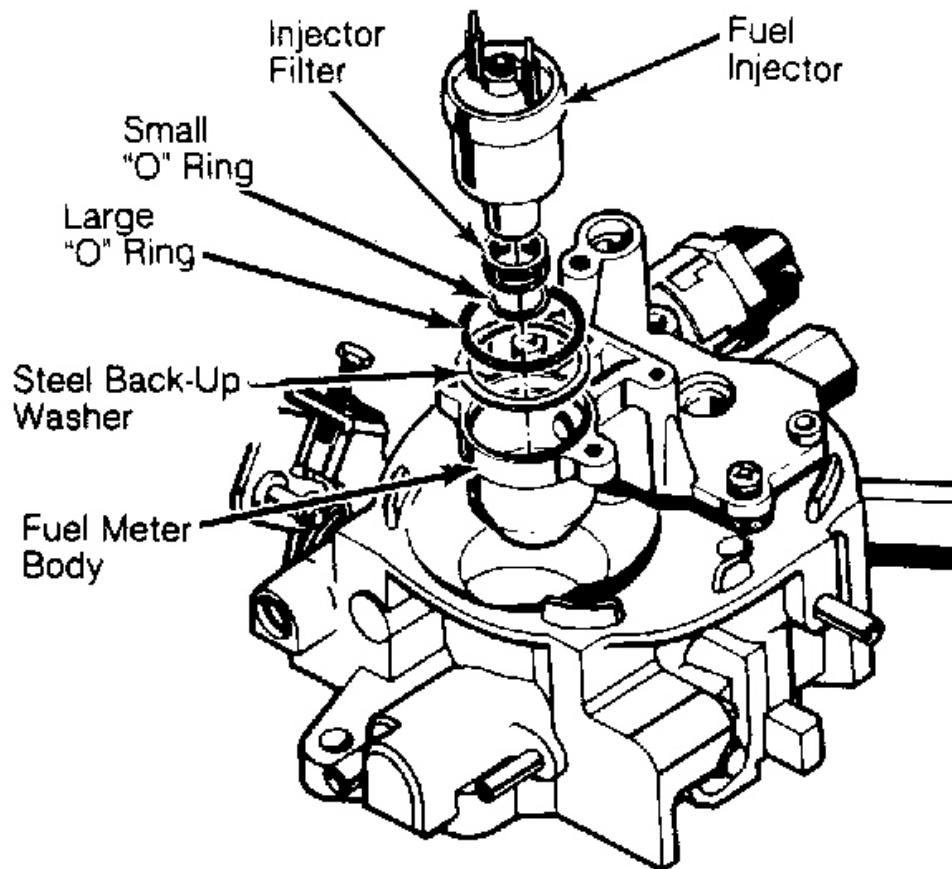


Fig. 8: Installing Fuel Injector Lubricate "O" rings with automatic transmission fluid.

CAUTION: "O" rings and back-up washer must be installed in this manner. **DO NOT** attempt to seat "O" rings and washer after injector is placed in cavity.

4. Using a pushing/twisting motion, install injector in cavity. **DO NOT** interchange front and rear injectors. Align raised lug on injector base with notch in fuel meter body. Push down on injector to center "O" ring in bottom of cavity and to seat injector.

1984 Chevrolet Corvette

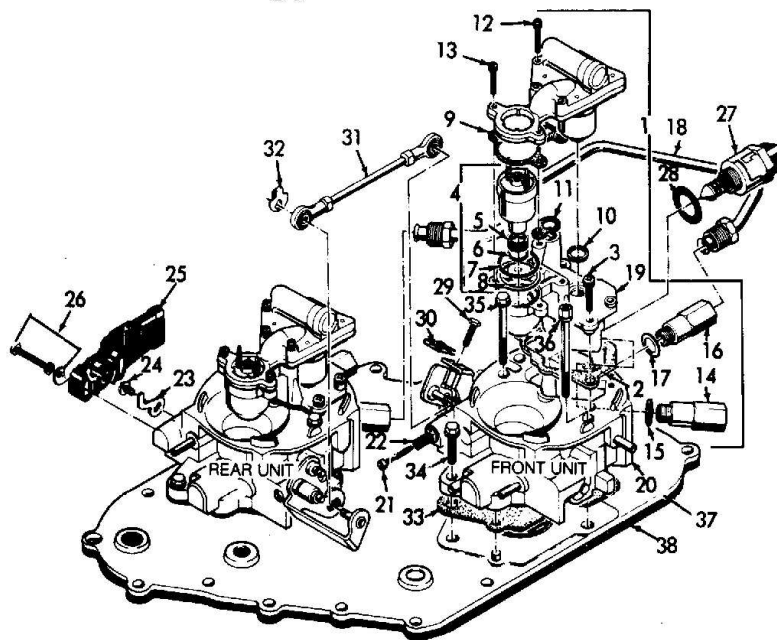
FUEL INJECTION SYSTEM - DUAL UNIT TBI 1984 Fuel Injection GENERAL MOTORS ELECTRONIC - DUAL UNIT

- Injector is correctly installed when lug on injector is seated in fuel meter body notch and electrical connections are parallel to throttle shaft in throttle body.

Fuel Meter Cover

- Install new fuel pressure regulator dust seal in fuel meter body recess in rear unit. Install new fuel return passage gasket. Install new fuel meter cover gasket on fuel meter body.
- Install fuel meter cover with pressure regulator on rear unit. Install fuel meter cover with accumulator on front unit. Apply thread locking compound (Loctite 262 or equivalent) to 5 cover screws. Install lock washers and screws (2 short screws go next to injector).

NOTE: Pressure regulator has a taller regulator "can" than the accumulator assembly.



NOTE: Parts not common between front and rear units are marked - (F)
- Front; (R) - Rear

- | | | | |
|--------------------------------------|--------------------------------|--|---|
| 1. Fuel Meter Assembly | 12. Long Screws (3) | 23. TPS Lever (R) | 31. Throttle Rod Assy. |
| 2. Fuel Meter Body Gasket | 13. Short Screws (2) | 24. TPS Lever Screw (R) | 32. Throttle Rod Clip (2) |
| 3. Attaching Screws (3) | 14. Fuel Inlet Nut | 25. Throttle Position Sensor (TPS) (R) | 33. TBI Mounting Gasket |
| 4. Fuel Injector Assembly | 15. Fuel Inlet Nut Gasket | 26. TPS Retainer Kit (R) | 34. Short TBI Bolts (2) |
| 5. Injector Nozzle Filter | 16. Fuel Outlet Nut | 27. Idle Air Control Valve (IAC) | 35. Long TBI Bolts (2) |
| 6. Small "O" Ring | 17. Fuel Outlet Nut Gasket | 28. IAC-to-TBI Gasket | 36. TBI & Air Cleaner Stud Bolts (2) |
| 7. Large "O" Ring | 18. Fuel Tube | 29. Idle Balance Screw | 37. Inlet Manifold Stud Bolts (2) |
| 8. Steel Back-Up Washer | 19. Fuel Meter Body Assy. | 30. Idle Balance Clip (Service Only) | 37. Inlet Manifold Cover Stud Bolts (2) |
| 9. Fuel Meter Cover Gasket | 20. Throttle Body Assy. | | 38. Manifold Cover Gasket |
| 10. Pressure Regulator Dust Seal (R) | 21. Throttle Stop Screw | | |
| 11. Fuel Meter Outlet Gasket | 22. Throttle Stop Screw Spring | | |

Fig. 9: Exploded View of Model Dual Unit (Crossfire) Throttle Body Assembly (Exploded View of Front Unit is Typical for Rear Unit)

1984 Chevrolet Corvette

FUEL INJECTION SYSTEM - DUAL UNIT TBI 1984 Fuel Injection GENERAL MOTORS ELECTRONIC - DUAL UNIT

TORQUE SPECIFICATIONS

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Application	Ft. Lbs. (N.m)
Fuel Inlet/Outlet Nuts	22 (30)
Idle Air Control (IAC) Assembly	13 (18)
Oxygen Sensor	30 (41)
Throttle Body-to-Manifold Bolts	8-14 (11-19)