

Throttle Body Injection (TBI) Single Point

Description:

The Throttle Body Injection (TBI) unit receives its signal from the vehicle Electronic Control Module (ECM) which calculates the required air/fuel mixture based on various engine sensor inputs. Fuel enters the inlet fuel nut and is channeled to the bottom of the injector pod. The injector solenoid is pulse-width modulated to accurately deliver the required amount of fuel to the engine. Unused fuel leaves the pod and passes through the regulator to be returned to the fuel tank. Throttle position is monitored by the Throttle Position Sensor (TPS) and fed back to the ECM. The idle air control valve regulates bypass air around the throttle valve in response to commands by the ECM.



Typical Application:

The Single Point TBI unit provides a precisely controlled air/fuel mixture to satisfy the full range of engine operating conditions.

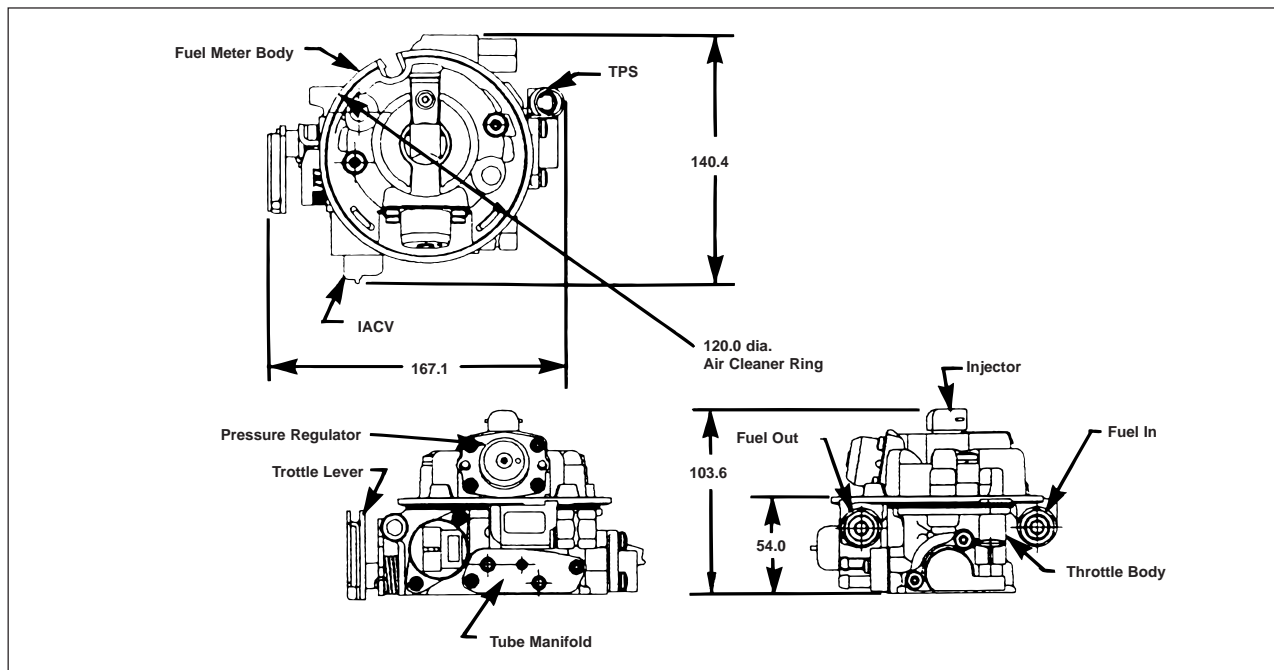
Performance Advantages:

The Single Point TBI is a highly reliable, low cost fuel system that delivers optimum performance, driveability, fuel economy and emissions.

Features	Benefits
<ul style="list-style-type: none">• Integral pressure regulator• Multec Injector• Integral throttle return springs• Lightweight diecast aluminum	<ul style="list-style-type: none">• Low cost system• High reliability• Optimum fuel economy
<ul style="list-style-type: none">• Progressive throttle control• Ratiometric throttle position sensor• Bypass air stepper motor• Ported and full vacuum signals• Alternate fuels compatibility• 75 or 200 kPa operating pressure	<ul style="list-style-type: none">• Vehicle system adaptability• Optimized performance• Optimum converter efficiency
<ul style="list-style-type: none">• Low profile	<ul style="list-style-type: none">• Adaptable to many engine configurations

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Single Point Throttle Body Injection



All measurements in millimeters.

Performance Specifications:	
Bore Size (mm)	32 to 48 (mm)
Air Flow (g/s)	61 to 175 @ 5 kPa
Max IACV Air (g/s)	15.0 max @ 60 kPa
Fuel Flow (g/s)	4.16 to 9.45 @ 75 kPa 6.68 to 15.30 @ 200 kPa
Oper. Temp. Range	-40° to 125°C
Oper. Pressure	75 to 200 kPa
Fuel Recirc. Rate	55 g/s maximum
TPS	Oper. Volts 5.0 +/- 0.1 Resistance 3000 Ω
Attaching Bolt Torque	35.0 Nm maximum
Weight	1.41 kg

Delphi Website:
<http://www.delphiauto.com>

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DE-98-E-072

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