

## Acronyms

The following is a list of common acronyms used by UPS.

BARO	Barometric Pressure	BIJ	Injector / Injection
B+	Battery positive	BO	Input / Output
CAN	Controller Area Network	RPA	Rotational
CARB	California Air Resources Board	KS	Knock Sensor
CRP	Crankshaft Position Sensor	KX	Kilohertz
EXT	Exhaust	MAF	Mass Airflow
CRP	Crankshaft Position Sensor	MAP	Manifold Air Pressure Sensor
COOL	Coolant	MAT	Manifold Air Temperature
CYL	Cylinder	MFI	Multipoint Injection / Injected
DEG	Degree	MISC	Miscellaneous
DI	Distributor Ignition	NC	Normally Closed
DIST	Distributor	NO	Normally Open
DLC	Data Link Connector	NTC	Negative Thermal Coefficient
DTC	Diagnostic Trouble Code	OBD	On-Board Diagnostic System
DVOM	Digital Volt Ohmmeter	OPS	Oil Pressure Sensor
ECM	Electronic Control Module	PI	Pul Per Fuel Injection
ECT	Engine Coolant Temperature Sensor	PRAM	Programmable Read-Only Memory
EEPROM	Electrically Erasable Programmable Read-Only Memory	PSI	Pounds Per Square Inch
EEC	Electronic Sea Engine Control	PMW	Pulse Width Modulated
EL	Electronic Ignition	RAM	Random Access Memory
EM	Electromagnetic Interference	REF IN	Reference In (RPM Input)
ENG	Engine	REF LO	Reference Low (Return)
EPA	Environmental Protection Agency (Federal)	RFI	Radio Frequency Interference
E-STOP	Emergency Stop	ROM	Read-Only Memory
GND	Ground	RPM	Revolutions Per Minute
GPH	Gallons Per Hour	SEA	Sea Engine
HC	Idle Air Control Throttle Motor	TACH	Tachometer
IMF	Integrated Air Fuel Module	TBI	Throttle Body Fuel Injection
IAT	Intake Air Temperature Sensor	TCP	Throttle Control Position Sensor
I	Igniter / Ignite	TMAP	Combination MAP and MAP Sensor
IGN	Ignition	TPS	Throttle Position Sensor
INH	Inches of Mercury	V	Volts
		VAC	Volts
		WOT	Wide Open Throttle

## Course Content



- Introduction / Overview
- Safety Brief
- EFI Product Highlights
- MEFI Systems
- Inputs and Outputs
- Ignition Systems
- Fuel Systems
- Power Distribution
- Special Service Tools
- Service Information

**JUN01**

Marine Fuel Injection is an adaptation of automotive EFI systems. The concept of EFI has been around for a long time. Electronic Fuel Injection is bringing a new level of performance and enjoyment to the boating world.

In Years past, Volvo Penta engines were equipped with 2 types of EFI systems, Throttle Body Injection (TBI) and Multipoint Injection (MPI or MFI). Both systems use the same types of sensors and a similar ECM (Electronic Control Module). This course is designed to cover Speed Density Fuel Injection used on all Volvo Penta fuel injected engines through the O2 model year.

Minimum performance requirements for successful completion of this course are:

1. Class exit and final final average score of 80% or higher
2. End of class reorganization of tools and equipment, as directed
3. 100% class attendance

# Volvo Penta Service Training Manual

**JE Gale**



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