

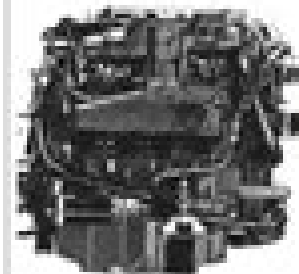
Acronyms

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

BARO	Barometric Pressure	BI	Injector / Injection
B+	Battery positive	BO	Input / Output
CAN	Controller Area Network	BPA	Blip pedal
CARB	California Air Resources Board	KS	Kilohertz
CKP	Crankshaft Position Sensor	KV	Kilovolts
EXT	Exhaust	MAF	Mass Airflow
CRP	Crankshaft Position Sensor	MAP	Manifold Air Pressure Sensor
COOL	Coolant	MAT	Manifold Air Temperature
CYL	Cylinder	MFI	Multiport Injection / Injected
DEG	Degree	MSEC	Millisecond
DI	Distributor Ignition	NC	Normally Closed
DIST	Distributor	NO	Normally Open
DLC	Data Link Connector	NFC	Negative Thermal Coefficient
DTC	Diagnostic Trouble Code	OBD	On-Board Diagnostic System
DWOM	Digital Volt Ohmmeter	OPS	Oil Pressure Sensor
ECM	Electronic Control Module	PI	Past 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 Gas Engine Control	PWM	Pulse Width Modulated
EL	Electronic Ignition	RAM	Random Access Memory
EMI	Electromagnetic Interference	REF IN	Reference In (RPM Input)
ENG	Engine	REF OUT	Reference Out (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	SLR	Slave Engine
ISC	Idle Air Control (Starter Motor)	TACH	Tachometer
IMFIM	Integrated Air Fuel Module	TBI	Throttle Body Fuel Injection
IAT	Intake Air Temperature Sensor	TCP	Throttle Control Position Sensor
I	Ignition (Control)	TMAP	Combination MAP and MAT Sensor
IGN	Ignition	TPS	Throttle Position Sensor
INCH	Inches of Mercury	V	Volts
		VAC	Vacuum
		WOT	Wide Open Throttle

VPI Fuel Injection

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

JUNE

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 Multiport Injection (MPI or MFI). Both systems used 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 05 model year.

Minimum performance requirements for successful completion of this course are:

1. Class quiz and test 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

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Table of Contents Volvo Penta Service Training Manual

1. Understanding the eBook Volvo Penta Service Training Manual
 - The Rise of Digital Reading Volvo Penta Service Training Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Volvo Penta Service Training Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Volvo Penta Service Training Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Volvo Penta Service Training Manual
 - Personalized Recommendations
 - Volvo Penta Service Training Manual User Reviews and Ratings
 - Volvo Penta Service Training Manual and Bestseller Lists

5. Accessing Volvo Penta Service Training Manual Free and Paid eBooks
 - Volvo Penta Service Training Manual Public Domain eBooks
 - Volvo Penta Service Training Manual eBook Subscription Services
 - Volvo Penta Service Training Manual Budget-Friendly Options
6. Navigating Volvo Penta Service Training Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Volvo Penta Service Training Manual Compatibility with Devices
 - Volvo Penta Service Training Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Volvo Penta Service Training Manual
 - Highlighting and Note-Taking Volvo Penta Service Training Manual
 - Interactive Elements Volvo Penta Service Training Manual
8. Staying Engaged with Volvo Penta Service Training Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Volvo Penta Service Training Manual
9. Balancing eBooks and Physical Books Volvo Penta Service Training Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Volvo Penta Service Training Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Volvo Penta Service Training Manual
 - Setting Reading Goals Volvo Penta Service Training Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Volvo Penta Service Training Manual
 - Fact-Checking eBook Content of Volvo Penta Service Training Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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