



## Introduction: Volkswagen Diesel 1.9 and 2.0 TDi with PD (Pumpe Düse)



Coverage of TDI Training Seminar 2010:

- 1998 thru 2004 TDI - ALH Series.
- 2005 and newer PD (Pumpe Düse).
- Overview with the BEW - BHW - BKW (Pumpe Düse) systems.
- Data Block Diagnostics Interpretation.
- Basic settings, readiness monitors and adaptations.
- TDI system theory and principles.
- Field expertise, generation overview and shortcuts to diagnostics.
- Live Diagnostic Data Blocks
- 400+ page Diagnostic manual included with Seminar

This seminar will introduce and aid the shop owner – technician to understand and maintain all Volkswagen diesel engines from the AHU, IZ, ALH to the new PD engines. In this training session, all aspects of diagnostics, repair and maintenance will be at your finger tips.

**VW and Audi training with technical support**  
**Call 1-866-245-7602 Email: [esatinc@esatinc.ca](mailto:esatinc@esatinc.ca)**

This seminar is designed to offer field experience and a training manual that will help solve maintenance issues, diagnosis and drivability problems.

Included are diagnostic component testing, adjustments and adaptations for all Volkswagen passenger vehicles like the Golf, Jetta and Passat.

With this seminar, timing belt and start of injection adjustments are illustrated with tooling and specifications using a VAG style scan tool.



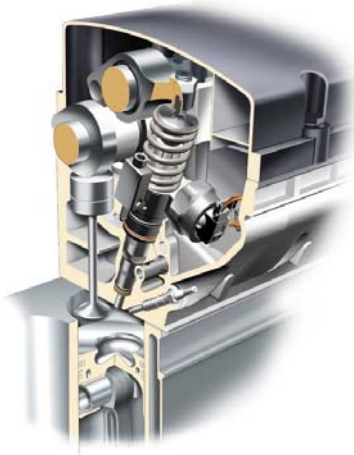
The first goal of this seminar is to instruct and train the modern day technician to service and repair the VW diesel engines with confidence and eliminate costly come backs.

The second goal is to increase customer retention with tested knowledge and competent diagnostic skills.

The third goal is to prepare the modern technician for the new, clean and quite diesel production engines coming to North America.

Live diagnostics includes:

- Start of injection adjustments
- MAF monitoring and defect analysis
- Turbo charger testing
- Cold start starting analysis
- Glow plug monitoring and adjustments
- EGR testing and adaptations
- Data block interpretations
- Using the VAG style scan tool



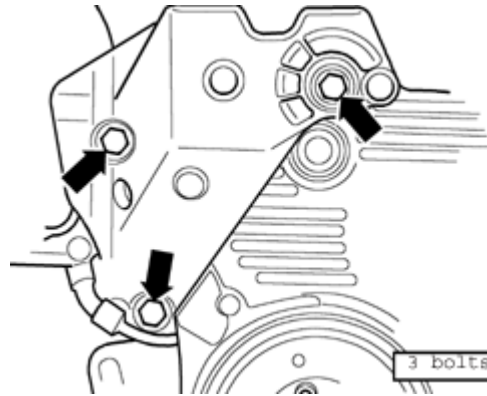
Feel free to visit the ESAT Inc web site and join the technicians forum.

<http://www.esatinc.ca>

**“there are no answers, it’s the choices that are made” AF**

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This seminar will help guide the technician and shop owner on better decisions for parts purchases during routine service. The following example is the engine mount bolt replacement when ever the mount is replaced.



Failure to replace these bolts will cause the rear engine web to break and the engine will drop.

Intepreting data correctly will aid in those mysterious lack of power complaints.

Display group 000 (decimal displayed value)									
Engine idling									
Read measuring value block 0 →									
◀ Indicated on display									
x	x	x	x	x	x	x	x	x	x
1	2	3	4	5	6	7	8	9	10
		◀ Display fields		Specification		Corresponds to			
		Mass air flow		69 to 117		230 to 390 mg/H			
		Fuel temperature		91 to 201		20° to 80° C			
		Intake air temperature		182 to 50		10° to 100° C			
		Engine coolant temperature		80 to 35		80° to 110° C			
		Barometric pressure		Not relevant		-			
		Manifold absolute pressure		Not relevant		-			
		Injection quantity		15 to 45		3 to 9 mg/stroke			
		Accelerator pedal position		0		0 %			
		Start of injection		0 to 88		3° ATDC to 4° BTDC			
		Engine speed		37 to 43		780 to 903 RPM			



Secure Payment options.



**Seminar Date:**

**Host Facility:**

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