



## Volkswagen and Audi Advanced Data Blocks evaluations for 2012

Volkswagen & Audi On-Board Diagnostic systems use live streaming data that are called Data Blocks. Trying to understand the available information can be a major challenge for most technicians. This training seminar is designed to help you associate the viewable data on the scan tool screen.

This live Data Block seminar will discuss these in depth VAG functions:

01 - Check control module version	02 - Check DTC memory
03 - Output Diagnostic Test Mode	04 - Basic settings
05 - Erase DTC memory	06 - End output
07 - Code control module	08 - Read measured value block
09 - Single reading	10 - Adaptation
11 - Login	15 - Readiness Code
1A - Advanced ID	16 - Security Access

With a VAG style scan tool, the technician can access any installed controller on a VW and Audi and learn to use all of the available functions ie: Throttle control.

	Display fields			
	1	2	3	4
<b>Display group 60: Adaptation of throttle value control module to Engine Control Module (ECM)</b>				
Display	xxx <sup>0</sup>	xx <sup>0</sup>	text	text
Indicated	Throttle valve angle	Throttle drive angle	Operational status	Adaptation status
Range	0 to 90 <sup>0</sup>	0 to 90 <sup>0</sup>	Idle/Part Throt./ Full Throt./Decel/Enrich	ADP.runs/ADP.OK/ ADP.Error
Specified value at idle	0 to 5 <sup>0</sup>	0 to 5 <sup>0</sup>	Idle	ADP.OK

**Take a guess, how many units that can be addressed via a VAG tool?**

The goal of this technical seminar is to aid the technician to comprehend the complexities of the old and new data generations. With these new diagnostic skills, the technician will increase their knowledge curve and productivity.

**Additional Diagnostic coverage:**

- Readiness Generating and Monitoring Diagnostics
  - Misfire Recognition Diagnostics
  - Throttle Valve Control Module (adaptations)
- Charge Pressure Control (Turbocharger testing)
- EVAP Control Diagnostic Data Blocks (forced test)
  - O2 Sensor Diagnostic Data Blocks
- CAN Bus Diagnostic Data Block and analysis
- Airbag (SRS) Diagnostic Data Blocks
- Archive and retrieve all important controller data

This seminar will now empower today’s technician to create readiness monitors without leaving the repair facility. The technician will be able to “test” emissions components before and after a successful repair.

1	2	3	4	5	6	7	8	Display group 086: Readiness code
0	0	0	0	0	0	0	0	Readiness Code Set ( when all 0's appear)
								Three Way Catalytic Converter (TWC)
								TWC Heating (always "0")
								EVAP system and fuel tank leak detection test
								Secondary Air Injection system (always "0")
								Air Conditioning system (always "0")
								Heated Oxygen Sensor (HO2S) control
								Heated Oxygen Sensor (HO2S) heating
								Exhaust Gas Resurculation (EGR) system (always "0")

**The readiness code has generated a PASS!**

**In the shop!**

The mysterious data encryption will be revealed with ALL available VAG tools in mind. No mater the VAG tool, this seminar fits them all.

On all new models and with CAN systems, controllers are “adapted” and configured with Long Coding. Modern PC based scan tools have this option available:

Byte - Number	Value (hexadecimal)	Value (binary)
00	00	00000000
01	8F	10001111
02	8F	10001111
03	02	00000010
04	00	00000000
05	04	00000100
06	20	00100000
07	00	00000000
08	00	00000000
09	12	00010010
10	0C	00001100

**Long coding example for the 2008 Audi TTR**

Address 09: Central Electrics  
 Part No SW: 8P0 907 279 K HW: 8P0 907 279 K  
 Component: Bordnetz-SG H54 2501  
 Coding: F1041E83C0141C00471800001800000000284E075A250802000000000000  
 Shop #: WSC 12345

This seminar is an advanced class that offers the majority of controller data with a 455 page resource manual that includes:

- “K” line and CAN diagnostics.
- VAG function descriptions and their meanings.
- Readiness monitor generating (in shop).
- Label file (comprehension, integration and creation) (VCDS).
- ALL KNOWN Readiness setups for VW and Audi.
- Effective test drives sheets for the 1.8T, 2.8, 2.7, All MMS 410, 411 A B and C.
- Consolidated Data Blocks for Gasoline Engines.
- CAN-Bus and Immobilizer System Generations.
- Data Block analysis for all 1.8T, 2.8, 2.7, 3.7, and 4.2 series engines.

This class is also Laptop driven. All attending technicians and shop owners are issued a CD with over 800 controller labels, Gas analysis software, Volumetric efficiency software, STFT, LTFT software, Fault Codes, Service Reminder Indicator setup, and numerous documents that add up to over 30 meg worth of shop information.

Time	=	Money	This is the way of the future. This is how I teach. This is what you need to learn. There are no answers, it's the choices that are made. (AF)
Training	=	Efficiency	
Efficiency	=	Money	
Knowledge	=	Power	
Power	=	Money	

This seminar includes live data within the power point presentation. Technicians will follow the included resource manual, CD, live data with the presentation.

**This Data Blocks class is a prerequisite to the Volkswagen and Audi CAN (Controller Area Network) seminar.**

**Schedule your reservation for this class by contacting:  
Euro Systems Automotive Training Inc. at 1-866-245-7602  
Reservations and seating is limited.**



Secure Payment options.



**Seminar Date:** February 24 & 25, 2012  
**Host facility:** T.E. Parolin & Sons Motor Car Sales Ltd.  
1864 Seymour Street  
North Bay, On P1B 8G4  
Terry Parolin (Owner)  
705-474-0241  
[jayme@teparolin.ca](mailto:jayme@teparolin.ca)  
<http://www.teparolin.ca/>

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Call 1-866-245-7602 Email:esatinc@esatinc.ca**