

## VCDS (VAG-COM) Logging Guide

### Safety

Safety is extremely important. Logging may involve high speeds so only do logs when it's safe to do so. The best place to take logs is on a dyno (rolling road), although many people do logs on public roads. We are not liable for anything that happens when you do logs!

### General

- Most logs are done in 3<sup>rd</sup> gear Wide-Open-Throttle (WOT) from 2000 RPM (gas/petrol) or 1500 RPM (diesel) to redline.
- For cars equipped with automatic transmission, try forcing 3<sup>rd</sup> gear in "manual mode" if possible. WOT at low RPM can cause the transmission to downshift automatically. To stay in gear, apply only partial throttle at low RPM and then WOT at around 3000 RPM. With a little practice you can find what works best.

### Measuring Blocks to Log

Logging instructions are available in the following pages.

<b>VAG 1.8T, 2.7T, &amp; 2.0T</b>	<ul style="list-style-type: none"> <li>• 003+115+020 (log three at once)</li> <li>• 003+118+031 (log three at once)</li> </ul>
<b>VAG Non-Turbo Gas (Petrol)</b>	<ul style="list-style-type: none"> <li>• 003+020+031 (log three at once)</li> <li>• 003+021+031 (for the second ECU if applicable, i.e. Audi R8 V10)</li> </ul>
<b>VAG TDI 1996-2003 Or any VE TDI</b>	<ul style="list-style-type: none"> <li>• 001 • 003 • 004 • 008 • 011</li> </ul> <p><i>log only one at a time.</i></p> <p>With the engine turned off (leave the key "on"), log the following group for a few seconds to measure atmosphere pressure:</p> <ul style="list-style-type: none"> <li>• 010</li> </ul> <p><i>we do take into account the altitude/elevation of each TDI we tune!</i></p>
<b>VAG TDI 2004-2007 Or any PD TDI</b>	<ul style="list-style-type: none"> <li>• 001+003+004 (log three at once)</li> <li>• 008+011 (log two at once)</li> </ul> <p>With the engine turned off (leave the key "on"), log the following group for a few seconds to measure atmosphere pressure:</p> <ul style="list-style-type: none"> <li>• 010</li> </ul>
<b>VAG TDI 1996-2007 with aggressive tune or large turbo</b>	<p><b>Log all the TDI blocks listed above AND the following:</b></p> <p>WOT from approximately 40km/h (25mph) to 140km/h (90mph) starting in 3<sup>rd</sup> gear (you can shift into 4<sup>th</sup> during this run):</p> <ul style="list-style-type: none"> <li>• 007+011+006 (log three blocks at once)</li> </ul> <p><i>before taking this log, cool down your intercooler by driving at very low engine load for several minutes. This includes cruising at a steady speed on level road or downhill.</i></p> <p><b>4<sup>th</sup> gear</b> WOT from 1,250 RPM to redline. Take it 2 times. This log is important for optimizing boost control in the entire RPM range.</p>

- 011

If you have a US-spec 2004-2005 Passat TDI, then please also log this group:

- 067

**VAG TDI 2009+  
Common Rail TDI**

Log these blocks in 3<sup>rd</sup> gear:

- 001+003+004
- 008+011+099

## Why take VCDS Logs?

Your vital engine data (such as boost, fuel quantity, timing, MAF, etc.) is recorded as you drive. They help us ensure that there are no problems with your engine before tuning, and to ensure that it is performing optimally after a tune. Although installing any tune without logging is possible (aka "tuning blindly"), using logs help bring the best out of your engine.


## What do I need?

You need a VAG-COM cable or OBD2 logger and a laptop. Official VAG-COM cables can be purchased at <http://www.ross-tech.com>.

## Step-by-Step Logging Guide

Ensure that the VAG-COM cable is connected to your car and your laptop. Open the VAG-COM software.

**1. Click the Select button:**



VAG-COM Main Screen  
Release 504.1-UD  
7770 Codes Loaded

Select Control Module  
Select an individual Control Module such as Engine, ABS, Airbag, etc.

Auto-Scan  
An automatic scan of all controllers for Fault Codes

Control Module Finder  
Scan an address range for ISO9141 compliant control modules.


OBD-II Functions  
Generic OBD2 Mode. Retrieve and clear faults and freeze frame, obtain live data.

Applications  
Features consisting of several basic commands, like transport mode.

Program Options  
Select Comm Port, Set Debug and Protocol Options, etc.

Buttons: Select, Auto-Scan, Control Module Finder, OBD-II, Applications, Options, About, Exit

**2. Click the Engine button:**



VAG-COM Release 504.1-UD: Select Control Module  
Select Control Module

Common | Drivetrain | Chassis | Comfort/Conv. | Electronics 1 | Electronics 2

01-Engine | 02-Auto Trans | 03-ABS Brakes | 08-Auto HVAC  
09-Cent. Elect. | 15-Airbags | 16-Steering wheel | 17-Instruments  
18-Aux. Heat | 19-CAN Gateway | 22-AWD | 25-Immobilizer  
35-Centr. Locks | 37-Navigation | 45-Inter. Monitor | 46-Central Conv.  
55-Xenon Range | 56-Radio

Direct Entry  
Address Word (01-7F):  Go! Go Back

3. Click the **Meas. Blocks** button:



4. Select a block (or blocks) to log. Refer to the list of blocks near the top of this document.



5. Click the **Log** button (shown in step 4, circled).

6. Click the **Start** button to begin logging:

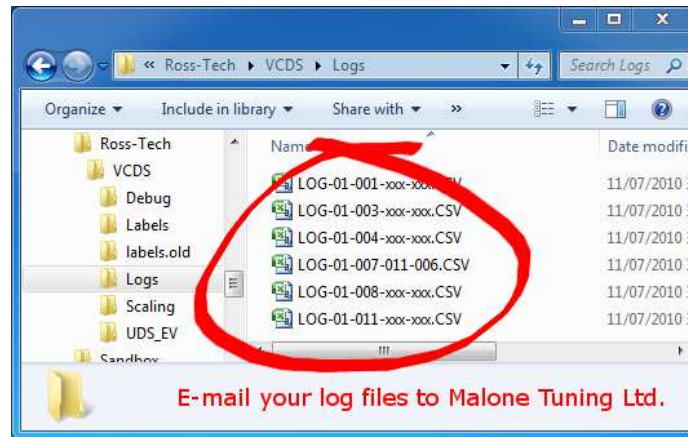


7. Click the **Stop** button at the end of your run:



8. Repeat steps #4-7 until you complete all groups.

After you complete logging you can find your log files in **C:\Ross-Tech\VCDS\Logs\** or in **C:\Program Files\VAG-COM\Logs\**:



Email the log files to Malone Tuning Ltd. for a free analysis.

Optional: Archive all log files into one ZIP or RAR file to make e-mail attachment easier.