



***Drew
Technologies, Inc.***

Mongoose Quick Start Guide



PLEASE NOTE

Mongoose interfaces have been carefully designed and tested to comply with OBDII protocols, which are used on most 1996 and newer cars and light trucks sold in the USA. However, some vehicle models are not in full compliance with these protocols for various reasons. In addition, the computer control systems or sensors on any given vehicle may be malfunctioning or out of specification.

Vehicles manufactured for use outside of the USA may not comply with OBDII protocols, even though an SAE J1962 connector is located in the vehicle. Connection to vehicles manufactured for use outside of the USA is AT YOUR OWN RISK. Drew Technologies will not be held responsible for ANY direct, indirect or consequential damage that arises as a result of connecting to such a vehicle.

Before installing Mongoose, we recommend visiting this website for service information: www.nastf.org.

While Drew Tech's testing and the experience of thousands of Mongoose users have shown the unit to be safe and reliable, there is an inherent risk in using any product that may potentially affect the operation or drive-ability of your vehicle.

If you are concerned about the operation of your vehicle at any time while using Mongoose:

- * Pull off the roadway immediately or as soon as it is safe to do so.
- * Disconnect Mongoose from the OBDII port.
- * Consult a licensed mechanic or automobile service center.

Report any issues or concerns to our Technical Support Dept. at support@drewtech.com. We are open Monday through Friday, 9:00 a.m. to 5:30 p.m. Eastern Time. We maintain an active database of the feedback we receive, and your comments can help us continuously improve the product.

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IMPORTANT INFORMATION

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Copyright 1999-2010 Drew Technologies, Inc., All Rights Reserved. Mongoose, CarDAQ, DashDAQ, ScanDAQ, and CarDAQ2534 are registered trademarks of Drew Technologies, Inc. All other trademarks and brand names are the property of their respective owners.

LIMITED WARRANTY

Drew Technologies, Inc. guarantees that every Mongoose is free from physical defects in material and workmanship under normal use for one year from the date of purchase.

IN NO EVENT SHALL DREW TECHNOLOGIES, INC.'S LIABILITY EXCEED THE PRICE PAID FOR THE PRODUCT. DREW TECHNOLOGIES SHALL BE EXEMPT FROM ALL OTHER CLAIMS WHETHER BASED UPON DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT, ITS ACCOMPANYING SOFTWARE, OR ITS DOCUMENTATION. Drew Technologies, Inc. makes no warranty or representation, expressed, implied, or statutory, with respect to its products or the contents or use of this documentation and all accompanying software, and specifically disclaims its quality, performance, merchantability, or fitness for any particular purpose. Drew Technologies, Inc. reserves the right to revise or update its products, software, or documentation without obligation to notify any individual or entity. Please direct all inquiries to:

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Introduction

Thank you for choosing Mongoose! This “PassThru” vehicle interface lets you use your PC to communicate and perform ECU diagnostics and reprogramming on many modern vehicles.

The Mongoose is an SAE J2534-compliant device at a low cost. It provides a direct connection to a laptop or desktop computer via a USB2.0 full-speed connection. All of the electronics are contained in the OBD-II connector shell, making it a compact and rugged vehicle communications tool.

The Mongoose is powered by the USB connector, so there’s no need to re-start the Mongoose if it is unplugged from a vehicle.

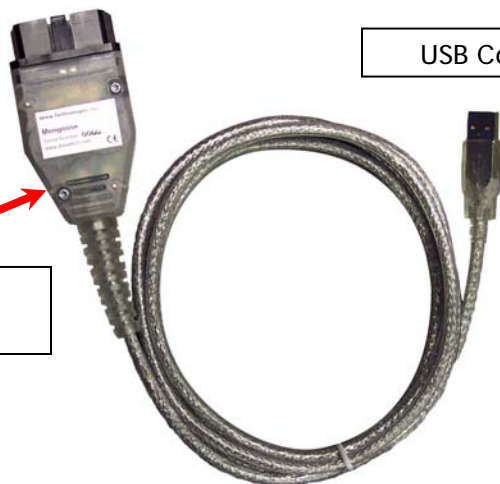
Getting to Know Mongoose

Your package includes a Mongoose, this Quick Start Guide, and a CD that includes drivers and the Drew Technologies J2534 Toolbox.

Vehicle OBDII Connector

USB Connector

Location of LED
Status Lights



Setting up the Mongoose

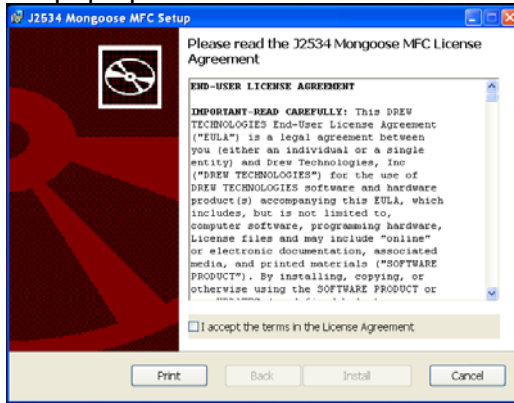
Install the Mongoose software on your computer

NOTE: Mongoose software requires Windows XP, Windows Vista (32 or 64 bit), or Windows 7 (32 or 64 bit).



Do not plug the Mongoose into your computer until you have installed the Mongoose software.

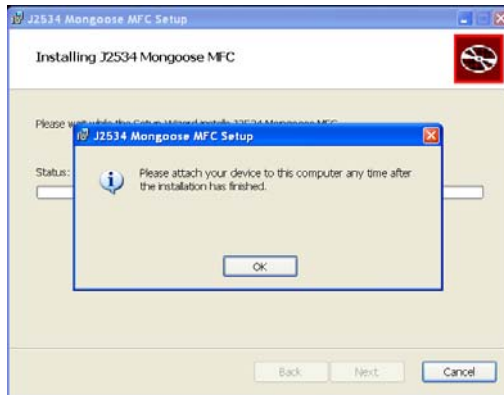
- 1) **Insert the Mongoose CD driver disk into your computer's CD/DVD slot.** From the desktop or the Start menu, click on "Computer", then double click on the CD/DVD drive to view the contents of the disk. Find the Mongoose installer, named "J2534 Mongoose XXX.msi," (XXX indicates the variation of Mongoose: MFC, ISO, etc.) Double click on this file. This screen will pop up:



Read the End-user License Agreement. When you have read and agree to accept the terms, click in the check box next to "I accept the terms in the license agreement," then click "Install."

When the installation is finished, you will see this screen.

Click "OK."



- 2) **Now plug the Mongoose into your computer's USB port.**

VISTA/7: If you are using Windows Vista or Windows 7, a message will pop up indicating the drivers are being installed. Vista/7 users are finished installing at this point and can run the software they will be using with the Mongoose.

Windows XP: If you are using Windows XP, you will see this message after the Mongoose is plugged into your computer's USB port:



Make sure “No, not this time” is selected and click “Next.” This screen appears:



Select “Install the software automatically [Recommended]” and click “Next.” After the progress bar finishes, click “Finish.” Windows XP users are finished installing at this point and can run the software they will be using with the Mongoose.

Updating Mongoose Driver and Firmware

Drew Technologies periodically releases updates to Mongoose

drivers and firmware. Updates are necessary to solve specific problems and to make sure Mongoose is working properly with OEM software. If you are experiencing problems during use, always make sure you have the latest firmware and driver. Instructions for updating Mongoose driver and firmware are located on the downloads portion of the Drew Technologies website here:

<http://www.drewtech.com/downloads/index.html>

Reprogramming

Any SAE J2534 software application can be used with Mongoose to communicate with a vehicle. Visit Drew Tech's website for links to OEM ECU reprogramming applications:

http://www.drewtech.com/support/oem_applications.html

Since SAE J2534 allows multiple devices to be connected at once, you must tell the OEM software application that you are using Mongoose. Each OEM software application has a different way to select the device. Please consult each software application's instructions.

Diagnostics

Mongoose MFC has been validated by Toyota to deliver their Techstream software for full diagnostics and reprogramming. Diagnose and reprogram 1996 to new Toyotas by purchasing a Techstream service subscription at www.techinfo.toyota.com

For other brands, Drew Tech offers DashDAQ-PC software application to read and clear Diagnostic Trouble Codes and datalog generic and manufacturer-specific OBDII parameters. Obtain a free demo of DashDAQ-PC by visiting www.drewtech.com

Specifications and Pin-out

Currently there are five variations of the Mongoose J2534 device:

- **Mongoose MFC (Import)**
- **Mongoose ISO/CAN**
- **Mongoose GM**
- **Mongoose FORD**
- **Mongoose-Chrysler**

Mongoose vehicle connector pin assignments:

Pin #	MFC (IMPORT)	ISO/CAN	GM	FORD	Chrysler
1	PS GND		SW CAN		
2	J1850+		J1850+	J1850+	J1850+
3					
4					
5	GND	GND	GND	GND	GND
6	CAN+	CAN+	CAN+	CAN+	CAN+/SCI
7	K-Line	K-Line		K-Line	SCI
8					
9	PS GND				SCI
10				J1850-	
11					
12	PS 5V				SCI
13				FEPS	
14	CAN-	CAN-	CAN-	CAN-	CAN-/SCI
15	L-Line/PS GND	L-Line		L-Line	SCI
16	VBatt	VBatt	VBatt	VBatt	VBatt

PS GND = Pin Switched to Ground

PS 5V = Pin switched to +5V

Troubleshooting and Support

The Mongoose gets power from your computer's USB port. LEDs inside the OBDII shell indicate the status of the Mongoose.

If the green LED is flashing, this typically means that Windows has found the device and the drivers are installed correctly. If the green light is flashing, but you cannot connect to Mongoose, contact technical support.

If the red LED is on continuously, this usually means that the drivers have either not been installed, or have not been installed correctly. Try reinstalling the drivers.

If no LEDs are lit, this may indicate a failure of the Mongoose device. Try connecting your Mongoose to another computer. If no LEDs light up on Mongoose during this second test, then contact technical support.

If these issues have been addressed and verified, and you are still having trouble, email support@drewtech.com

If all else fails...

Drew Tech is available , Monday through Friday during eastern-time business hours, to answer technical support questions. Please email support@drewtech.com if you need assistance.

If technical support finds it necessary to return the Mongoose for repair, you will be asked for your contact information and provided with a Return Merchandise Authorization number (RMA#) that Drew Technologies will use to track the unit through the repair department back to you. Please write this number on the outside of your shipping box so it can be routed to the correct department. If the necessary repair is not covered by Drew Technologies' warranty, you will be contacted for payment arrangements.

Customer Notes:

Other Drew Tech Products

Drew Technologies has several products available for data acquisition, diagnostics, development, testing, and reprogramming for modern vehicles. Visit www.drewtech.com for more information



CarDAQ-Plus™ - Fully SAE J2534 compliant. Ethernet and USB connectivity to a computer, a built-in operating system for running internal programs, protocol support for all modern vehicles, and six analog inputs.



Mongoose™ - DrewTech's family of low-cost, high-performance PassThru (SAE J2534) vehicle interfaces. Connect any laptop with USB 2.0 directly to the OBD-II (SAE J1962) connector with full-speed performance.



DashDAQ™ - Automotive data acquisition system designed for cabin mount. The DashDAQ displays vehicle parameters on an interactive color touch-screen.



DashDAQ-PC™ - PC software for data acquisition, diagnostics, and gauges. Use with DrewTech's SAE J2534 Interfaces.



AVIT™ - designed specifically for high speed remote data acquisition. AVIT supports common heavy-duty truck protocols and 16 analog high resolution inputs. It can host applications on embedded Linux, and communicate with cellular modems using USB Host. AVIT is used for managing trucks, fleets, and test vehicles on the road.