

# WIZARD

## **User Manual**



## PLEASE NOTE

**WIZARD** interfaces have been carefully designed and tested to comply with OBDII protocols. 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.

While Drew Tech's testing and the experiences of thousands of **WIZARD** 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 **WIZARD**:

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

Please report any issues or concerns to our Technical Support Department at <a href="mailto:support@drewtech.com">support@drewtech.com</a> or (734)222-5228 option 3. 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.

### **COPYRIGHT & TRADEMARKS**

Copyright 1999-2015 M2K, All Rights Reserved. **WIZARD** is a registered trademark of M2K All other trademarks and brand names are the property of their respective owners.

#### LIMITED WARRANTY

M2K guarantees that every **WIZARD** is free from physical defects in material and workmanship under normal use for one year from the date of purchase.

IN NO EVENT SHALL M2K'S or Drew Technologies' Inc 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. M2K 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. M2K 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:

M2K	Drew Technologies, Inc.
17779 Main Street	3915 Research Park Dr
Suite C	Suite A10
Irvine, CA 92614	Ann Arbor, MI 48108

## **FCC STATEMENT**

The wireless module has been tested and found to comply with the FCC part 15 and IC RSS-210 rules. These limits are designed to provide reasonable protection against harmful interference in approved installations. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference may not occur in a particular installation. This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Modifications or changes to this equipment not expressly approved by the part responsible for compliance may render void the user's authority to operate this equipment.

Modular Approval, FCC and IC FCC ID: X3ZBTMOD3 IC: 8828A-MOD3

In accordance with FCC part 15, the SPT2632C1A.AT2 is listed above as a modular transmitter device

## INTRODUCTION

Thank you for choosing **WIZARD**! The **WIZARD** will allow you to re-flash modern vehicle controllers to stock as well as perform dealer level diagnostics on select manufacturer's vehicles.

This Quick Start Guide covers the initial setup, features, and common questions. This manual is always available at <u>www.M2Kinc.com</u>. Information for individual manufacturers can be found in the J2534 Toolbox 3 application.

## **KIT CONTENTS**

- WIZARD Interface
- Vehicle Communication Cable
- USB Cable
- Installation CD with Setup Files, Device Drivers, and User Manual
- Optional BMW Adapter Kit



## GETTING TO KNOW WIZARD



LED Status lights:

	Solid Red	Blinking Red	Solid Green	Blinking Green
Power LED	-	Firmware error-Call	Device Startup In	Device is Functioning
		Tech Support	progress	
Protocol LED	-	-	Connected to	Connected & communicating
			Vehicle	with Vehicle
Vehicle Connection LED	Cable Not	-	Cable Ok and	-
	connected or		Vehicle power	
	Cable error		detected.	
USB LED	Install issue-	-	Connected to PC.	-
	Call Tech			
	Support			

## **DRIVER INSTALLATION**

- Insert the CD included with your *WIZARD* into your PC. You will need to have an internet connection to get the latest drivers. If your PC does not have a Disk Drive, please go to <a href="http://www.drewtech.com/downloads/index.html">http://www.drewtech.com/downloads/index.html</a> to get the *WIZARD* Installer.
- Run the Setup application, check the box next to "I accept the terms..." and click install.

👷 Drew Technologies Product Installer		X
DREW TECHNOLOGIES		
Welcome to the Drew Technologies Driver Installer. Note: For the latest drivers, please make sure you have an active internet connection.		
END-USER LICENSE AGREEMENT IMPORTANT-READ CAREFULLY: This End-User License Agreement ("EULA") agreement between you (either an individual or a single entity) and the J253 Manufacturer ("MANUFACTURER") for the use of MANUFACTURER software hardware product(s) accompanying this EULA, which includes, but is not lim computer software, programming hardware, License files and may include " electronic documentation, associated media, and printed materials ("SOFTW PRODUCT"). By installing, copying, or otherwise using the SOFTWARE PROD I accept the terms in the license agreement.	is a legal 34 Device and ited to, online" or VARE DUCT or any	*
PRODUCT INSTALLER Install	Ex	it

• The Setup application will install the *WIZARD* Drivers, the J2534 Toolbox 3 and the DrewTech Tech2Win driver on your PC.



Once the setup application has finished, Connect the USB cable to your *WIZARD* and to the PC.
 Once you have gotten a message in the lower right hand corner that the device has been installed, click Activate My device. Then Click Exit.

Drew Technologies Product Installer		×
DREW TECHNOLOGIES		
Successfully installed Please plug in your device and wait for windows to inform you that your device is read	dy to be u	ised.
This Drew Technologies product requires activation to function; Please press the button below to quickly activate your product (Internet Requ	ired).	
Activate My Device		
	Exit	

• The activator application will open after clicking Activate My Device in the setup application. Click the Activate My Device! Button.

💠 Drew Technologies Activation Window		×
DREW TECHNOLOGIES		
Welcome to the Drew Technologies Device Activator		
Devices sold by Drew Technologies require activation to ensure continued award winning so in class quality, and critical maintenance updates. Activating your device does not take long done quickly over the internet.	upport, best and can be	
Press the button below to begin. Please ensure you have an active internet connection.		
Activate My Device!		

- The WIZARD uses the CarDAQ Plus 2 Drivers. Select the CarDAQ Plus 2 during activation and in the J2534 Toolbox as well as any other OEM application to use the WIZARD.
- Select the interface you want to activate and click Continue.

++ Drew Technologies Activation Window	×
DREW TECHNOLOGIES	
Select The Device To Be Activated:	
Select The Device To Be Activated:	Ì
CarDAQ-Plus 2	
Continue	

• Enter your information and Click Continue.

🕂 Drew Technologies /	🔄 Drew Technologies Activation Window							
DREW TECHNOLOGIES								
To Activate	To Activate Your Device, We Need To Know More About You							
We use this activat	tion information to	activate your product's warranty; Without it, your product is unprotected.						
First Name:	Dave	Last Name: Baartman						
Country:	USA							
Company:	Drew Technolog	ies Inc						
Address:	3915 Research P	ark Dr. Suite A10						
City:	Ann Arbor							
State:	MI							
Phone:	Phone: 734-222-5228							
Continue								

• Select your type of business and level of programming experience, then select the OEMs you are planning to support. Click Continue once you are done.

💠 Drew Technologies Activation Wind	ow		X
I DREW TECH	HNOLOGI	IES	
Tell us about your bi	usiness		
Describe your Buisness:	Aftermarket Repair Sh	op	•
Reprogramming Experience:	Beginner		•
Supported OEM's: V Acur Audi BMV Chry Ford GM	ra \ Honda i \ VW V \ Mini rsler \ Fiat Group Group Group Continu	Allison Caterpillar Cummins Dana Detroit Diesel John Deere	4 <u>III</u> >
INSTALLER			

• Unplug your **WIZARD** from your PC and click OK.

Last Che	Last Checks				
i	Before We Begin				
	Lets take a second and do some final checks.				
	Remove the device from the computer. Press OK when the device is removed.				
	<u>O</u> k				
🚺 Fi	nal Checks; Step 1				

• Plug your *WIZARD* back into your PC, and click OK.

Last Che	Last Checks				
i	Before We Begin				
	Plug in the device to the computer. Press OK when ready.				
	<u>O</u> k				
Final Checks; Step 2					

• Your device has been successfully activates, click close application.

💠 Drew Technologies Activation Window		×				
Device Activation Status: Success.						
Your Device Has Been Activated Successfully. Please press close, and proceed to use the device						
Close Application						

The **WIZARD** uses the CarDAQ Plus 2 Drivers. Select the CarDAQ Plus 2 in the J2534 Toolbox as well as any other OEM application to use the **WIZARD**.

## J2534 TOOLBOX 3

• Double Click the J2534 Toolbox 3 Icon on the Desktop.



• Select your CarDAQ-Plus 2 from the drop down and click Auto Login.



• The Toolbox will open with 6 tabs available. The first is General. It has news, current OEM concerns, and training broadcast invitations. The sales tab is connected to the Drew Tech website.



• The Diagnostics tab has basic Diagnostic functions, as well as links, information and videos about all OEMs that currently provide Diagnostics via J2534.

1234-100 BOK					The second		
File Tools Help Log Off					CarDAQ-Plun 2		
General Salas	Diagnostics V Flashing V Support V Training						
Select a feature below							
Fostures *		Tavat	10E24 Informa	tion			
Gevenic Diagnostics (0068) *		Toyota	a J2554 informa	uon			
A-0	Current Issues						
HLA .	No Current Issue's concerning Toyota.						
	Taustala 12524 Canabilitian						
Le-N *	Toyota's J2534 Capabilities						
9Z #	Toyota allows dealer level diagnostics and reflashing with J2534 devices.						
Toyota	Access to key codes and immobilizer/smart reset capability is available pending your men Professional Registry	nbership to the NAS	TF Vehicle Security Professiona	Registry. To view details on how to be	come part of the regisity click here: NASTE Vehicle Security		
Website Toyota Information Toyota/Lexu(Scio	Toyota's Subscription Details						
DI BIYING VIDIO	Subscription Type	Standard	Professional Diagnostic	Security Professional*			
	g 2 Day	\$15	\$55	\$55			
	Monthly	\$75	NA	NA			
	Yearty	\$400	\$995	\$995			
		This mass a tro-day	rices upper at reidrophy, Pacific Time on the last day o subscription may actually provide generic than 46 bours	f your turn. If walk to access.			
	A Standard TIS toborigino provides access to the technical information likeary for all Toyota, Soin, diagnore, and repair II Joyota, Levan, or Sinn, As general nells, model coverage begins with the 29 A <b>Professional Diagnostic</b> . IIS subscription provides the same access to the technical information like Professional Diagnostic absorbing in the same access to the technical information. Note: Techniram coffmare registration is limited to one PC per and professional level aubscription. Y <b>4 S Security Professional TIS subscription provides the same access provides with the Professional you must be a current member of the NASTE Vehicle Security Professional Registry. For more details</b>	and Lexus vehicles mu 90 model year with sor rary provided with the diagnostics and vehich ou must purchase add Diagnostic subscription and requirements, clici	ekteed in North America. A Standars ne information, like Technical Service teprogramming capability Foressional reprogramming capability For more tional peofessional level subscriptions along with access to vehicle security three.	I subcription allows vehicle model and year is Balletins, available back to 1987. Diagnostic rubocription also allows use at Te Minimuzion on scutosch and vehicle repropr to use Techstream software on additional PC information, including key codes and immobil	pecific publication searches for the information needed to maintain, chubeam software and all current ECU calibration files. Package a maning, <u>click here</u> s retrimant ceset capability. Before you can parchase this subscription level,		
Volkswagen	Touste Technical Summert						
Volvo	Toyota rechnical Support						
4	Toyota Technical support is contacted via E-mail form by clicking here: Toyota Support Fo	cm					
Haavy Duty *	System Requirements						
Burope *	T d b a al TT is a state of the	a					
and the second sec	A second s	and a second	142 C				

• The flashing Tab has contains the information pertaining to OEM J2534 reflashing including links, information, walkthroughs, and some helper functions.

ill j2534 ToolBox		
File Tools Help Log Off		CarDAQ-Plus 2
General Sales	Diagnostics Flashing Support Training	
Select a manufacturer below:		
Manufactures «		
4.6 8	12534 ToolBox	
	File Tools Help Lon Off	
Acura	Contract of the second	
AUDI	General Hashing Disgnotos Suppor	
AUDI	Select a manufacturer below	
BMW	AG (A)	
Chrysler	Acuta	
Eard	Extensiblemation Circle on the mean data downs at	
	the left to see more options. The	
Weoste	"Flashing", "Diagnostics", and	
Ford F40	Support taos at the top work this way.	
EMP Walkthrough	AUDI	
Videos		
@ Read Part Number	BMW	
	H La 8	
	92 1	
1		
GM		
H-La ¥		
Le-N ¥		
5-Z ¥		

• The Support tab has functions to check driver installation, vehicle communication, update your device, create debug logs, and contact Technical Support.

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susparfaction being								
10000000000 · · · ·	ll.							
				verkide Check		100 00000		
Support A				oppo chask Canadian		Capy VIN To Cip		
		OBD2 Check Connection						
Device Support	Contractor							
Instal Check								
P Vehicle Check				Communicating with the J2534 dev	ice.			
Dévica Check								
lie Dabug Check	2234Devisitionatian Protocol P							
Sapport Website	# 32534		Vehicle Voltage: 12.8 Volts					
-	AFI	08.14	-					
	DeviceName	Not Applitable	Protocol	Status	12%			
	DLL Vareitor	Library vt. 1.170	11850VPW	Not Active				
		CarDAQ-Plus 2 Fill (0.0.1/9	1:851Pw94	NotActive				
	Pirmyuana Version	BL:5.0.3.3 SN:	1509141	NotActive				
	PAddress	Not Applicable	15014230 SLOW	NotActive				
	SerialNumber		2004/20 HAT	NDC ACTIVE				
			15/15/65 11 0K	Not Artiste				
			SCE8	UserSkipped				
Y uuuu Y			ALIA	User Skipped				
			9016 03090.	UScr Skipped				
	1 							

• The Training tab includes videos of installing and using OEM J2534 applications with Drew Technologies products.

## **DREWTECH TECH2WIN DRIVER**

The DrewTech Tech2Win driver allows technicians to use the **WIZARD** as an interface for the Tech2Win application. If you experience concerns, the first place you can check the status and configuration by following the instructions below:

- Go Start>All Programs>M2K>Tech2WinDriver and open the Drewtech Tech2Win Driver Configuration application.
- Confirm that the driver is installed, which is indicated by a green check mark.

📭 Drewtech Tech2Win Driver Configuration					
About Drewtech Tech2Win Driver Version 1.0.0.26 Copyright © 2012 Drew Technologies, Inc. Location:C: \Program Files (x86)\Drew Technologies, Inc\Tech2Win Driver\DTTech2Win.dll Drewtech Tech2Win Driver Configuration Version 1.0.0.0 Copyright © 2012 Drew Technologies, Inc.					
Tech2Win Status Installed for use with Tech2Win as 'Drewtech Tech2Win Driver' Install Remove					
Channel Dropping          Image: CAN for CAN on Pins 3,11         Image: Drop CAN on Pins 3,11 for Single Wire CAN					
Website Help Exit					

- If there is a red X, click Install. If Install does not work. Close the Configuration tool and right click on the start menu short cut and choose "Run as Administrator." Then click Install once the configuration application is running.
- Depending on which systems you are diagnosing, you will want to check the top or bottom check box under Channel dropping to communicate on either proprietary CAN channel. CAN on 6 & 14 is not affected by this.

## **SPECIFICATIONS**

Supported Protocols

- CAN Bus (capable of ISO 15765, GMLAN, J1939, and ISO14229)
- 2nd CAN (Dual or Single Wire)
- Ford SCP (J1850PWM)
- GM Class2 (J1850VPW)
- KWP2000 (ISO9141/14230)
- Chrysler SCI (J2610)
- Compliant to <u>SAE J2534</u> (Feb 2002) and <u>SAE J2534-1</u> (Dec 2004)
- Compliant to ISO 22900-1 MVCI physical layer
- Programming voltage on J1962 pin 6, 9, 11, 12, 13, 14 or Aux
- Ground pin 9

Physical Specifications/Tolerances:

Name	Value
Input Voltage Range	7VDC to 27VDC
Supply Current	220mA @ 7VDC
	175mA @12VDC
Operating Temperature	+0C to +60C ambient
Storage Temperature	-20C to +85C ambient

## **TECHNICAL SUPPORT**

For technical assistance please contact Drew Technologies or M2K:

### **Drew Technologies Technical Support**

support@drewtech.com
(734) 222-5228 option 3

M2K support@m2kinc.com (949) 333-3800

If technical support finds it necessary for the unit to be returned for repair, you will be asked for your contact information and then provided with a Return Merchandise Authorization number (RMA#). Drew Technologies will use the RMA to track the unit through the repair process. 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.