

Manual 26754 (Revision NEW, 4/2009) Original Instructions

MotoService Software Installation Guide

MotoHawk Control Solutions [Old MCS Publication Number 9700-1002]

Installation Guide



Read this entire manual and all other publications pertaining to the work to be performed before installing, operating, or servicing this equipment.

Practice all plant and safety instructions and precautions.

Failure to follow instructions can cause personal injury and/or property damage.



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Warnings and Notices

Important Definitions

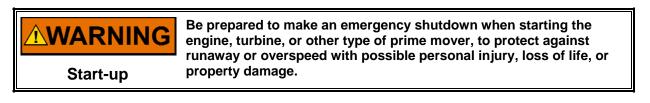


This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

- **DANGER**—Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
- **WARNING**—Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
- **CAUTION**—Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- **NOTICE**—Indicates a hazard that could result in property damage only (including damage to the control).
- **IMPORTANT**—Designates an operating tip or maintenance suggestion.

WARNINGThe engine, turbine, or other type of prime mover should be
equipped with an overspeed shutdown device to protect against
runaway or damage to the prime mover with possible personal injury,
loss of life, or property damage.Overspeed /
Overtemperature /
OverpressureThe overspeed shutdown device must be totally independent of the
prime mover control system. An overtemperature or overpressure
shutdown device may also be needed for safety, as appropriate.

WARNING Personal Protective Equipment	The products described in this publication may present risks that could lead to personal injury, loss of life, or property damage. Always wear the appropriate personal protective equipment (PPE) for the job at hand. Equipment that should be considered includes but is not limited to: • Eye Protection
	 Eye Protection Hearing Protection Hard Hat Gloves Safety Boots Respirator
	Always read the proper Material Safety Data Sheet (MSDS) for any working fluid(s) and comply with recommended safety equipment.



• WARNING Automotive Applications On- and off-highway Mobile Applications: Unless Woodward's control functions as the supervisory control, customer should install a system totally independent of the prime mover control system that monitors for supervisory control of engine (and takes appropriate action if supervisory control is lost) to protect against loss of engine control with possible personal injury, loss of life, or property damage.

NOTICE

To prevent damage to a control system that uses an alternator or battery-charging device, make sure the charging device is turned off before disconnecting the battery from the system.

Battery Charging Device

Electrostatic Discharge Awareness

NOTICE Electrostatic Precautions	 Electronic controls contain static-sensitive parts. Observe the following precautions to prevent damage to these parts: Discharge body static before handling the control (with power to the control turned off, contact a grounded surface and maintain contact while handling the control). Avoid all plastic, vinyl, and Styrofoam (except antistatic versions) around printed circuit boards. Do not touch the components or conductors on a printed circuit board with your hands or with conductive devices. To prevent damage to electronic components caused by improper handling, read and observe the precautions in Woodward manual 82715, Guide for Handling and Protection of Electronic Controls,
	Printed Circuit Boards, and Modules.

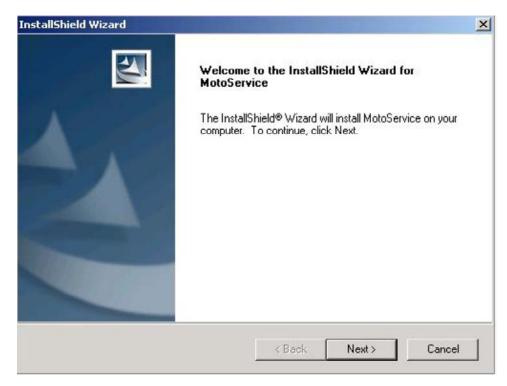
Follow these precautions when working with or near the control.

- 1. Avoid the build-up of static electricity on your body by not wearing clothing made of synthetic materials. Wear cotton or cotton-blend materials as much as possible because these do not store static electric charges as much as synthetics.
- 2. Do not remove the printed circuit board (PCB) from the control cabinet unless absolutely necessary. If you must remove the PCB from the control cabinet, follow these precautions:
 - Do not touch any part of the PCB except the edges.
 - Do not touch the electrical conductors, the connectors, or the components with conductive devices or with your hands.
 - When replacing a PCB, keep the new PCB in the plastic antistatic protective bag it comes in until you are ready to install it. Immediately after removing the old PCB from the control cabinet, place it in the antistatic protective bag.

MotoService Software Installation Guide

This document provides a step by step process for installing MotoService software for the first-time user.

Insert the CD into the CD tray. The disk will automatically start. A series of dialog screens will appear that will typically require only a confirmation click (next) to continue the installation process.



Click on NEXT.

stallShield Wizard			2
License Agreement Please read the following license agreement	carefully.		N-24
Press the PAGE DOWN key to see the rest	of the agreement.		
company, as described in Section 2.8, by clicking the "I ACCEPT" or "NEXT" button, represent and warrant that you have the authority to accept these terms on behalf of the company. If you do not accept these terms, or if you d not have the authority to accept these term click "I DO NOT ACCEPT" or "CANCEL".	6		*
Do you accept all the terms of the preceding setup will close. To install MotoService, you tallShield			No, the
	< Back	Yes	No 1

After reading the License Agreement click on YES.

InstallShield Wiz	zard			X
Customer Info Please entery	rmation your information.			24
User Name:				
My Name				
Company Nan	ne:			
My Company				
Install this app		ises this computer (all use	(5)	
InstallShield			1 r	1
		< Back	Next >	Cancel

Fill in the above information if required and click NEXT.

nstallShield W	izard			
Setup Type Choose the s	setup type that bes	t suits your needs.		
Please selec	t a setup type.			
Complete		ures will be installed. (Rec	quires the most disk sp	pace.)
C Custom	Choose which p advanced users	rogram features you wan!	t installed. Recomme	nded for
- Destination	n Folder n Files\MotoTron\I	ActoService\		Browse
stallShield				0104456
sidilərindilə ——		< Ba	ick Next>	Cancel

Use the default settings and click NEXT. Advanced users can proceed accordingly.

stallShield Wizard		<u></u>
Start Copying Files Review settings before copying files.		24
Setup has enough information to start co change any settings, click Back. If you copying files.		
Current Settings:		
Install the following Table Databases: D:\ECUFiles\TDBDLL\VARSPEEDF D:\ECUFiles\TDBDLL\VARSPEEDF Install the following display layouts: D:\ECUFiles\Displays\MI_4_Diagnos Configure the following ports: SECM-1	RAAE.dll	
		-
<		*
tallShield		×

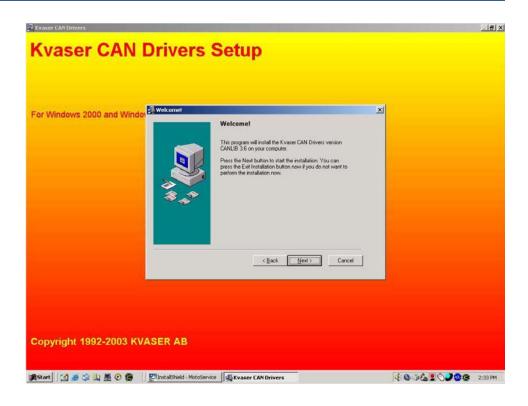
This screen indicates the location of the typical user files and where they are installed. Click NEXT.



The USB to CAN communication drivers will now be installed.

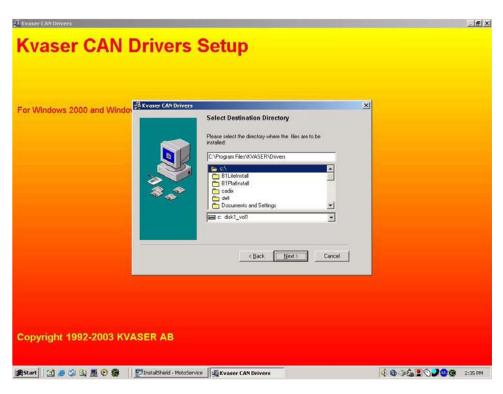
Kvaser CAN Drivers	X
Kvaser CAN Drivers Setup	
For Windows 2000 and Windows XP	
To windows 2000 and windows AF	
View README file?	
The READANCE file contains important information about the software and the installation.	
Do you want to read this information now?	
Yes No	
Copyright 1992-2003 KVASER AB	
😹 Start 🔯 🔏 🕼 🦉 🚱 🖉 🖉 InstaliShield - MotoService 🕺 Kvaser CAN Drivers	4 9 4 2:32 PM

If you would like to read the README file click on YES, otherwise click NO to proceed.

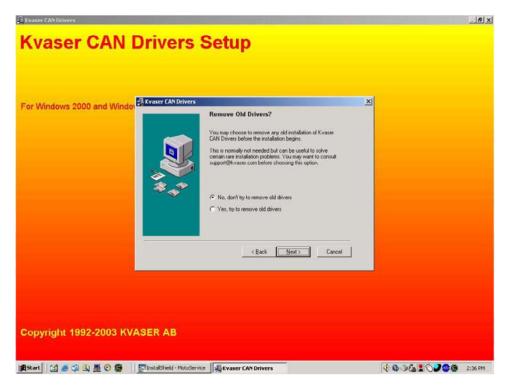


r Windows 2000 and Windo	Traser CAN Driver	A Note on Compability This note is of interest mainly to customers in Sweden, Finland, Norway and Denmark. If you have purchased CANalyzer, CANoe, CANape or similar software from Xvaser and wort to continue to use to together with Kvaser hadrware, please be sure to read the README file BERTORE you initial this simp schkage. If you are using CANalyzer/CANape/elc but herven't purchased it from us. or it you are using CANcedS, you can safely initial this package.	×	
opyright 1992-2003 KV		View the Readme file		

Click NEXT.



2 Kvaser CAN Drivers		×
Kvaser CAN Drivers Setup		
For Windows 2000 and Windor		
Select Start Menu Group		
Enter the name of the Start Menu group to add Kvaser CAN Drivers		
🔍 🖉 🗖 Don't create a Start Menu group.		
KVASER CAN Drivers		
Accessories Administrative Tools		
APC Best Software, Inc		
Cisco IP SoltPhone		
Claritel Dell Accessories		
FedEx Ship Manager ICD Groupware Client		
<back next=""> Cancel</back>		
Copyright 1992-2003 KVASER AB		
🏨 Start 🔯 🎓 🏟 🖳 🧮 📀 🍘 🛛 🕎 InstalShield - MotoService 🖓 Kvaser CAN Drivers	403410788	2:36 PM



Kvaser CAN Drivers	Drivers Setup	
For Windows 2000 and Wind	Ready to Install You are now ready to install the Kyaser CAN Dr You are now ready to install the Kyaser CAN Dr Piest the Stati Install button to begin the installa- Back button to reenter the installation information	tion or the
	(Back	Cancel
Copyright 1992-2003 Kነ ଶ୍ରହଙ୍କୀ 🛙 🗃 🔿 ଓ 🗸 🗮 ତ 😵	ASER AB	€©©&\$O ₽©© 2:37 PM

Kvaser CAN Drivers Setup	JdX
For Windows 2000 and Windows XP	
Enclating More residence the CAR down: The market a there instance.	
	Initialiting XL Degleg like C sinth/DOV/Hoysees/d2-alime/slaam ge 16/05 Caucel
Copyright 1992-2003 KVASER AB	A MIN T RANK OF A MANAGEMENT

Kvaser CAN Drivers	.ex
Kvaser CAN Drivers Setup	
For Windows 2000 and Windows XP	
Installation Complete Image: Complete and the diversity of the	
🏨 Start 🔄 😹 🔕 🤮 😨 🛞 🖉 🕎 🖉 🖉 🖉 🖉 🖉 🖉 🖉 🖉 🖉 🖉 🖉 🖉 🖉	€ ● 26 2 ○ 200 PM

Click OK.

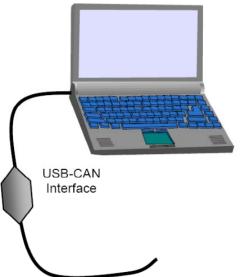
InstallShield Wizard		×
Setup Status		
MotoService Setup is p	performing the requested operations.	
Question C:\E O	uld you like a copy of the display file shortcut(s) on you	r Desktop?
InstallShield ————		Cancel

If you would like the installer to create a shortcut for the vehicle display file on your desktop then click on YES otherwise select NO to continue.

InstallShield Wizard	
	InstallShield Wizard Complete
	Setup has finished installing MotoService on your computer.
	K Back. Finish Cancel

Click FINISH.

Insert the USB connector from the CAN interface into an available USB port of the computer.



Windows will now find the new hardware it has detected and continue installing the remaining driver software.

Found New Hardy	vare n Rugged
Found New Hardwar	e Wizard
	Welcome to the Found New Hardware Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy
	Can Windows connect to Windows Update to search for software? Yes, this time only Yes, now and every time I connect a device No, not this time
	Click Next to continue.

< <u>B</u>ack

Next>

Select the choice "No, not this time" and click NEXT.

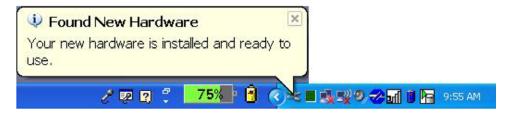
Cancel







Click FINISH.



Windows alerts you that the new hardware is ready to use.

Insert the USB security token (dongle) into the other available USB port.

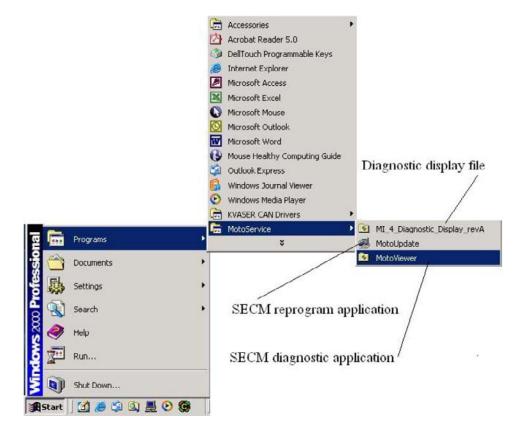


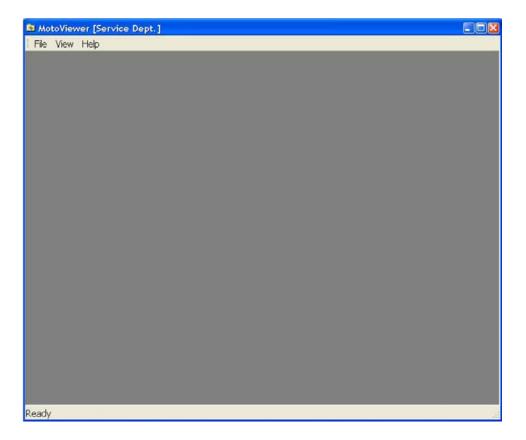
Style 1



Style 2

Connect to the USB-CAN interface cable to the vehicle's diagnostic port. Turn the ignition switch to the 'on' position. Navigate to Windows START button and follow the hierarchy tree to the MotoViewer[™] Icon.



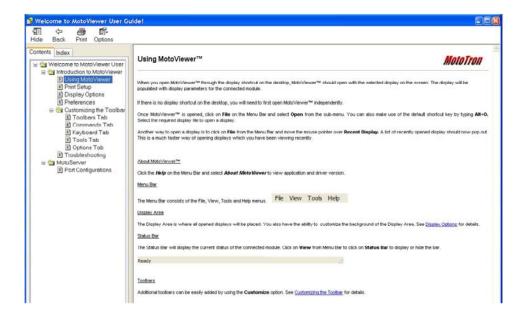


The MotoViewer screen will appear as indicated in the above example. Click on HELP/ contents to see further information if needed.

MotoViewer [Service Dept.]	
File View Help	
Contents	
2 About MotoTune	
Display the help contents	
Display the help contents	



Select on any topic in the Contents directory to see further information.



Frequently Asked Questions

- Q: Why can't I communicate with the module (ECU)?
- A: Make sure the vehicle has power and the keyswitch is in the 'run' position. Verify the terminating resistor (120 ohm) is healthy. Some laptops can't supply enough power through the USB port for the communication cable. Try using an externally powered USB hub to power the comms cable.
- Q: What do I do when I run the MotoUpdate[™] program and I see a message indicating there are no updates available?
- A: First—make sure that you have downloaded from the website all of the latest and up to date versions of the required calibrations or .mfu files.

Second—some versions of Windows incorrectly create the shortcut directing the MotoUpdate program to look in the wrong file folder. This can be easily verified by going to the shortcut for MotoUpdate that you may have created on the desktop. Do a 'right click' on the shortcut and select properties.

Shortcut to N	lotoUpdate.exe Properties	? 🛛		
General Shorton	ut Compatibility Security			
sł	ortcut to MotoUpdate.exe			
Target type:	Application			
Target location:	MotoService			
Target:	n Files\MotoTron\MotoService\MotoUpdate.e	xe"		
Start in:	C:\ECUFiles\Updates\	5		
Shortcut key:	None			
Run:	Normal window	~		
Comment:				
Find Target Change Icon Advanced				
	OK Cancel App	oly		

Select the TAB called "shortcut" and make sure the location called Start in indicates the path of: C:\ECUFiles\Updates\

If the information is not correct, then the MotoUpdate program will never find the update calibrations. The correct path information can be manually typed in, then click on the 'Apply' button, and then click 'OK'. We appreciate your comments about the content of our publications.

Send comments to: icinfo@woodward.com

Please reference publication 26754.



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