

Tool Guardian™

The Latest Innovation in Technology

Installation Guide



The image shows a yellow-bordered card with a green header and footer. The header contains the 'TOOL GUARDIAN™' logo with a globe icon, the company name 'GUARDIAN SYSTEMS', and the address '2817 Basswood Rd., Manitowoc, WI 54220 - (800) 330-7413'. The main body of the card is green and lists five features, each preceded by a white checkmark in a square: 'Low Battery Voltage', 'Vibration Detection', 'Arm/Disarm Keychain', 'Alarm Call in Seconds', and 'Internet History & Control'. The footer is white and contains the ESN number '310640101003223' in a black box, followed by the contact information 'info@guardianwireless.com - www.guardianwireless.com'.

TOOL GUARDIAN™
GUARDIAN SYSTEMS
2817 Basswood Rd., Manitowoc, WI 54220 - (800) 330-7413

- ✓ Low Battery Voltage
- ✓ Vibration Detection
- ✓ Arm/Disarm Keychain
- ✓ Alarm Call in Seconds
- ✓ Internet History & Control

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 **Guardian Systems**
Your Wireless Security System Leader

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Introduction

Congratulations on your Guardian Systems purchase! This manual will help you install and use your new Tool Guardian. If, for any reason, the instructions in this manual are not clear, please feel free to call us at 1-800-330-7413 for assistance.

Installation

Checking the Box Contents

Make sure that the following items are found in your box:

- A transmitter box
- A power supply
- An arm/disarm switch
- A vibration sensor
- An antenna

Note: If you ordered the battery back-up add-on, you should also make sure you received one of these.

If you do not find any one of the above items, double check the packaging, as some of these are small and easily missed. If, after having double checked the packaging, you still do not find the above items, please contact us.

Locating the Transmitter Box and Battery Back-up Box

Consider the following when locating your control box and battery back-up:

- **Signal Strength:** The Tool Guardian uses GSM cellular technology to communicate alarms and other information to our servers, and the included antenna will have to be mounted in a way that will guarantee signal. This may require drilling a hole in the back or bottom of the tool chest.
- **Power Source:** The control box will require a 120 volt AC outlet in order to plug in the 15 volt DC power adaptor included. This adaptor power the box (or recharges the battery back-up). Finding a way to run this into the tool chest will be necessary as well.

- **Drawer Space:** The Tool Guardian has been designed to take up as little space as possible, however, it will require a bit of drawer space in a drawer somewhere in the tool chest. This is so it can be hidden from criminals. The drawer you locate the unit in should be deep enough for the transmitter box (and the battery back-up if included).
- **Wiring:** The Tool Guardian has some wiring that will have to be run through the inside of your box. This includes the wiring for the arm/disarm switch, the power adaptor, and the antenna. Make sure you have safe spaces to run wires where they will not get rubbed, pinched, or shorted to the box.

Mounting the Switch, Sensor, and Wiring the Tool Guardian

Locating the wires and arm/disarm switch

Consider the following when locating the wiring harness and arm/disarm switch:

- **Movement:** The wires for the arm/disarm switch have been designed to allow you to install them with enough slack to let you open and close the drawer the Tool Guardian is installed into. If the wires are not long enough, they can be extended, however, insulated connectors should be used. Make sure to run the wires in such a way as to account for this kind of movement without pinching, rubbing, or shorting the wires. The wires for the power supply can also be extended, but, be very careful as to the polarity of the wires. Crossing the polarity can damage the unit (or the battery back-up) and cause you to lose time while we repair it. The antenna cannot be extended. If you find it too short, please contact us to find out how you can get a longer one.
- **Placement:** The arm/disarm switch must be placed right next to the locking mechanism, preferably next to the arm that comes off of the lock on the front. Finding a place in the mechanism that will operate the switch plunger on the box is very important. If this switch is not working properly, you will have false alarms from the system whenever you open or move your box. The antenna must be placed so that the unit gets a signal. If you are in an area with a strong GSM signal, the antenna may work from inside the box just fine. If you are not, you may have to run the antenna out through a hole in the tool chest. The tool chest will have to be placed close enough to a 120 volt AC outlet to plug in the charger. If you want the charger to be used while the tool chest is locked, then you will have to run the wires out of the chest through a hole as well.

Running the wiring and installing the switch and sensor

Follow these suggestions for running the wiring harness. As each installation is different, we can only suggest how to run it. You may need a wire or string to use to fish the wires through tight spaces in the tool chest.

- First, locate the locking mechanism and remove any drawers directly below it to expose the mechanism. The mechanism should have some sort of arm, as in Figure 1.



Figure 1

- Determine how the mechanism works by locking and unlocking the tool chest while watching the mechanism. This will give you an idea of where to place the switch. Keep in mind that the switch plunger must be pressed in when the unit is locked, and not pressed when the unit is unlocked.

- Now that you have a location for the arm/disarm switch, run the arm disarm wires through the tool chest. If you have empty walls, such as the ones in Figure 2, these are ideal places to run the wires.



Figure 2

- After you have run the wires, mount the switch in your chosen location with the provided double-sided foam tape. See Figures 3 and 4 for an example of a final installation in both unlocked and locked positions.

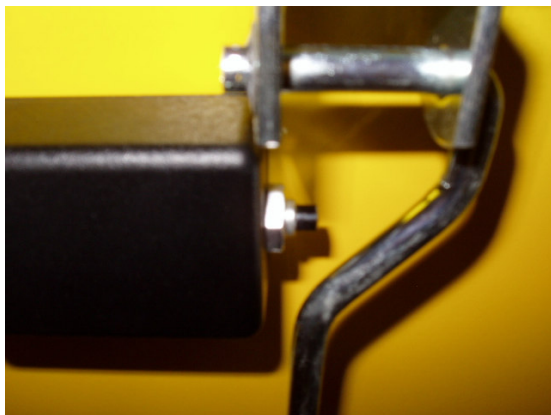


Figure 3: Unlocked Position



Figure 4: Locked Position

- Install the vibration sensor in the drawer along with the transmitter box (and battery back-up, if purchased). When installing the vibration sensor, always mount it upright so that the bottom of the sensor (the side with the tape) is facing the bottom of the drawer.
- Now, wire up the transmitter box as in Figure 5 on page 5. Make sure you orient the box so that the lid is up. Incorrect connection of the power supply could result in damage to the system. The arm/disarm switch and

the vibration sensor are not polarized. When using the battery back-up box, always connect the power supply to the battery back-up, and the battery back-up to the transmitter box.

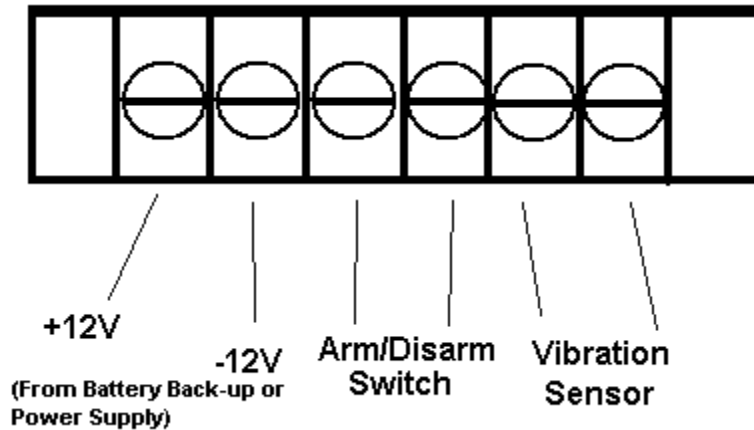


Figure 5

System Operation

Operating the System Locally

The Tool Guardian is armed and disarmed locally by using the locking mechanism of the tool chest itself. Once armed, the unit will sound an alarm every time the tool chest feels significant vibration, such as someone moving the chest or someone attempting to pry open the drawers. The unit is also able to report loss of power from the battery back-up and low battery level. The total running time on batteries alone will be no less than 24 hours.

Website Login and Event Viewing

Every alarm the Tool Guardian transmits is recorded in our database and available to you by logging in at:

<https://www.guardianwireless.com/members/logon.asp>

Logging In

Members Log On

Username Password

Figure 6

After going to the above address, you will be presented with a logon screen. There, you may enter the username and password that you received in the letter that was included with your system. After you enter your information and click the “Log On” button, you will be redirected to your system’s events page.

The Events/History Page

Recent Events / History

Welcome.

You have the following messages. To view archived history please select a month and year:

January 2007 **Go**

Time Stamp (CST)	Alarm	Alarm Details	Map Details
7/19/2006 8:00:31 PM	Status	Disarmed,Relay 1 Off,Relay 2 Off,Battery Voltage: 15.44 v, Bilge Pump Cycle: 0, Duration: 0 Min.	
7/18/2006 8:00:30 PM	Status	Disarmed,Relay 1 Off,Relay 2 Off,Battery Voltage: 15.28 v, Bilge Pump Cycle: 0, Duration: 0 Min.	

Total Rows: 2

Figure 7

The events page is capable of showing all of the messages your unit has ever sent. The default is to show you the alarms and system messages for the current month and year, however, you can change this by selecting a different month and/or year and clicking the nearby Go button, as highlighted in yellow in Figure 7.

The Control Page

Control

Welcome,

You can remotely control the following:

Coordinates

Previous 10 remote control actions		
Time	Action	Result
1/4/2008 12:40:11 PM	Remote Lock	SUCCESS
11/24/2007 6:53:29 PM	Remote Unlock	SUCCESS
11/21/2007 10:54:04 AM	Status	SUCCESS
10/31/2007 12:47:50 PM	Status	SUCCESS
10/31/2007 11:23:08 AM	Status	SUCCESS
3/7/2007 9:41:59 AM	Status	SUCCESS
2/7/2007 3:50:50 PM	Status	SUCCESS
1/25/2007 3:37:08 PM	Status	SUCCESS
1/25/2007 3:34:44 PM	Relay 1 Off	SUCCESS
1/25/2007 3:33:58 PM	Status	SUCCESS

Figure 8

The control page, shown in Figure 8, is where you can control your unit, without being physically present with a key fob to do so. The control page shows you a history of the ten most recent messages you have sent to your unit. You also have the Status command. To use the command, simply select the command and click on the Send button. Then, after confirming the command, a progress bar will display, showing you it will take 30 seconds to process your command.

Your request will take approximately 30 seconds.



Figure 9

After the 30 seconds are up, you will be redirected to the events page where you will be able to see the result of the Status command.

The Preferences Page

Preferences / Account

Welcome,

You currently have 19 messages left.

Owner's Information	
First Name	<input type="text" value="Demo"/>
Last Name	<input type="text" value="Unit"/>
Address1	<input type="text" value="500 S. 16th Street"/>
Address2	<input type="text"/>
City	<input type="text" value="Manitowoc"/>
State	<input type="text" value="WI"/>
Postal Code	<input type="text" value="54220"/>
<input type="button" value="Update"/>	<input type="button" value="Cancel"/>

Emails	
Email 1	<input type="text" value="gwsales@guardianwire"/>
Email 2	<input type="text" value="sales@guardianwireles"/>
<input type="button" value="Update"/>	<input type="button" value="Cancel"/>

Phone Numbers	
Call Order Phone Number	
Phone1	<input type="text" value="9202426320"/>
Phone2	<input type="text"/>
Phone3	<input type="text"/>
<input type="button" value="Update"/>	<input type="button" value="Cancel"/>

Figure 10

The preferences page, shown in Figure 10, is where you will find displayed your name, address, and telephone numbers. You may not edit your username; however, you may edit your password, address, and contact information, such as phone numbers. To edit your phone numbers, simply click in one of the boxes shown in Figure 10, and enter the number, starting with area code, without any punctuation.

For example, the phone number (123) 555-0123 would be entered 1235550123. You may enter any three phone numbers, however, you may not enter 911 or any law enforcement agency phone number, as doing so is not permitted by law.

Troubleshooting Guide

- **The transmitter box doesn't arm when I lock the tool chest:** First, make sure you have the switch installed correctly. If the plunger (the little black part) of the switch does not get pressed when you lock the tool chest, then it won't be armed. It may have just come loose or the foam tape may be bad, just replace the tape and reposition the sensor. If the sensor appears to be mechanically working, make sure there is no damage to the wires and that the wires are tightly screwed to the terminal strip on the transmitter box. If you cannot get it to work, and everything checks out mechanically and electrically, make sure that you have a GSM signal at the location of the antenna by holding your cell phone down by the antenna. The clear insulated end is the actual antenna, and there needs to be signal present there. If no signal is present, you may have to put the antenna through a hole out the tool chest, or if this is already the case, move the tool chest to a new location that has a signal. If you are still having problems with arming/disarming, please call Guardian Systems at 1-800-330-7413 for further assistance.
- **I tripped the sensor, but I didn't receive any notifications:** First, check that you have set up your phone numbers, emails, and SMS text message recipients correctly by logging into your secure account at www.guardianwireless.com. Second, check that the transmitter box has power. Third, make sure you have the box locked and that the arm/disarm switch is working (see above). Forth, make sure the sensor is mounted upright. If the sensor is not oriented correctly, it will never indicate that it is out of alarm, so it will never have a chance to actually go into alarm. If you still do not receive an alarm message after the second attempt, please call 1-800-330-7413 for further assistance.
- **My question isn't answered in this troubleshooting guide:** Please call 1-800-330-7413 and we will do our best to help you out. We are open from 8:00 AM to 4:30 PM CST.

FCC NOTE

This device complies with FCC Rules Part 15.

Operation is subject to the following conditions:

This device may not cause harmful interference

This device must accept any interference that may be received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Guardian Systems, LLC. can void the user's authority to operate the equipment.

Warranty Information

LIMITED WARRANTY. Guardian Systems warrants to the original retail purchaser, that if a Product is found to be defective in material or workmanship, within one year from the date of purchase, Guardian Systems shall, at its sole and absolute discretion, repair or replace it with a new or reconditioned Product of the same or more recent model in exchange for the defective Product. This limited warranty applies only if proof of purchase presented at the time claim is made.

This limited warranty does not cover and is void with respect to: (i) physical damage to the surface of the Product, including cracks or scratches; (ii) cosmetic damage; (iii) any Product which has been improperly installed, repaired or modified; (iv) any Product which has been subject to misuse (including any Product used in conjunction with hardware electrically or mechanically incompatible), abuse, physical damage, abnormal operation, incorrect line voltage, improper handling, neglect, lightning, electrical surges, exposure to excessive moisture or dampness or extreme changes in climate or temperature; (v) any Product damage due to accident, fire, flood, and/or other acts of God, improper commercial use or damage that occurs in shipping; (vi) any Product on which factory-installed Product access numbers or serial numbers have been removed, altered or rendered illegible; (vii) consumables (such as batteries). Transportation to and from the authorized service center is the customer's responsibility.

EXTENDED LIMITED WARRANTY. If you have purchased our Extended Limited Warranty, we will extend the Limited Warranty explained above for the term on a year to year basis. The Extended Limited Warranty will be available in One, Two or Three year increments. Extended warranty is available upon purchase of the unit or within the last thirty days of the initial warranty term. You must notify us by telephone, e-mail or written notice at least 30 days before the end of the then-current yearly term to sign up for the extended warranty.

WARRANTY EXCLUSIONS. The limited warranty and, if purchased, the extended limited warranty do not apply if we determine upon inspection that any of the following conditions caused the need for service: A. Damage resulting from accidents, Acts of God, alterations or misuse; B. You fail to properly follow the operating or installation instructions; C. Trouble in a telephone line or due to interruption of power; D. Repairs needing batteries; E. Ordinary maintenance or wear and tear; F. Alterations to your premises; or G. Alterations to the system made at your request, or made necessary by a change to your premises, damage to your premises or the alarm system, or for any other cause beyond our control.



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