

CompuStar 2WSSR

Two-Way Spread Spectrum Remote

USER'S GUIDE

By Firstech, Inc

Website: www.compustar.org



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Spread Spectrum Technology

This groundbreaking technology uses a transmitted signal that is spread over a wide frequency band and the transmitter abruptly changes (or hops) the frequency in accordance with a pseudo random sequence. With this revolutionary technology, the FCC has allowed Firstech, Inc. to use 28X more power than any of the transmitters currently marketed in the US and in most case 56X the power. We are using 560K uV/m in contrast to most transmitters' power of 5 K to 20K uV/m. The result is that our range is extended up to 1.25 miles. The FCC allows massive power usage because the spread spectrum technology makes it possible for many transmitters to communicate without interfering with each other.

For the first time in the history of the auto security industry, Firstech has achieved a remarkable technological break-through in utilizing a FCC-approved Spread Spectrum and 900 Mhz Technology.

Introduction

Thank you for choosing CompuStar, a state-of-the-art Two-Way alarm/remote start system for your vehicle that uses Spread Spectrum Technology (SST). We, at Firstech, Inc., are constantly performing research and development to make you and your vehicle safe and more comfortable. Security and comfort, that's what Firstech, Inc. is all about.

CompuStar 2WSSR system consists of the following two devices:

Controller: This 5 inch by 3.5 inch by 1 inch rectangular black box is the "brain" of the CompuStar 2WSSR system and is installed underneath the dashboard of your vehicle. Upon receipt of a digital signal from the antenna, the controller can perform car tasks such as remote keyless entry, auto-start and security alerts.

Remote-Pager: This device allows the user to activate multiple functions of the CompuStar 2WSSR controller such as auto-start, keyless entry and security features by pressing a combination of 4 buttons on the unit for up to a 1.25 miles distance. Also, the unique color LCD display called CompuGLO allows the user to visually, audibly and through vibration, monitor the security status of your car at all times.

Limited Lifetime Consumer Warranty

Firstech, Inc warrants to the original purchaser that this product shall be free of defects in material and workmanship under normal use and circumstances for the period of time that the original owner of this product owns the vehicle in which it is installed; except that the remote controller unit for the period of one year from the date of installation to the original owner of this product. When the original purchaser returns the product to the retail store where it was purchased or pre-paid postal to Firstech, Inc., 801 E. 82nd Ave Suite 1 Anchorage, Alaska 99518, USA within the warranty period, and if the product is defective, Firstech, Inc. will at its option repair or replace such.

TO THE MAXIMUM EXTENT ALLOWED BY LAW, ANY AND ALL WARRANTIES ARE EXCLUDED BY THE MANUFACTURER AND EACH ENTITY PARTICIPATING IN THE STREAM OF COMMERCE THEREWITH. THIS EXCLUSION INCLUDES BUT IS NOT LIMITED TO, THE EXCLUSION OF ANY AND ALL WARRANTY OF MERCHANTABILITY AND/OR ANY AND ALL WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND/OR ANY AND ALL WARRANTY OF NON-INFRINGEMENT OR PATENTS, IN THE UNITED STATES OF AMERICA AND/OR ABROAD. NEITHER THE MANUFACTURER OF ANY ENTITIES CONNECTED THEREWITH SHALL BE RESPONSIBLE OR LIABLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGES FOR LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE. NOTWITHSTANDING THE ABOVE, MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR THE CONTROL MODULE AS DESCRIBED ABOVE. Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights, and you may also have other rights, which vary State to State.

Firstech, Inc. is not RESPONSIBLE OR LIABLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGES FOR LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE that may or may not resulted from the operation of Compustar. NOTWITHSTANDING THE ABOVE, MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR THE CONTROL MODULE AS DESCRIBED ABOVE.

Your Warranty

The product's warranty is automatically void if its date code or serial number is defaced, missing or altered. This warranty will not be valid unless you have completed the registration card and mailed it to Firstech, Inc., within 10 days after the purchase to the address listed on the registration card.

Important Information

Congratulations on the purchase of your high-tech vehicle security system and remote auto-starter. This system has been designed to provide years of trouble-free operation. Due to the complexity of the system, it must only be installed by an authorized CompuStar dealer for full warranty and technical support. Installation of this product by anyone other than an authorized dealer voids the warranty.

The owner's guide should help you to get the most out of your system. Please take time to read it thoroughly prior to using this system. Additional replacement copies of this manual are available for downloading at www.compustar.org.

Safety Information

Please take these safety precautions under the following conditions:

1. Servicing the vehicle

When servicing (i.e. changing the oil, washing your car) your automobile, the CompuStar system should be in Valet Mode. There is a safety shutdown switch under the hood that deactivates the remote starter function if the hood is open. However, if the switch has been damaged or the switch has been installed improperly, the vehicle may start when Button II is pressed for 2 seconds even if the hood is open.

2. Loaning your vehicle to others

Whenever you loan your vehicle to an individual who is not familiar with Compustar, please put the vehicle in Valet mode. This will prevent the vehicle loaner from accidentally activating the CompuStar auto-security system.

3. For manual transmission vehicles

If the Compustar 2WSSR is installed in a manual transmission vehicle, extra precautions are required because the Compustar does not monitor the gear shift:

Important! Under normal circumstances, Reservation Mode is cancelled when a door or hatchback opens. Please verify if the opening of any door or hatchback cancels Reservation Mode. If any of the doors or hatchback is not monitored by CompuStar because of improper installation or a faulty dome light switch, do not use the CompuStar and take your vehicle to the dealer immediately for repair.

Do not set Reservation Mode when the window(s) are open or if there is anyone inside of the vehicle including animals.

System Maintenance

This system requires no specific maintenance. Your remote-pager is powered by a single AA battery that will last approximately one month under normal use depending on the make and model of your vehicle. There is a battery icon in the lower right corner of the CompuGLO LCD indicating remaining battery life. When the battery weakens, the operating range will be reduced and the CompuGLO LCD will dim. Contact your authorized CompuStar dealer if you have additional questions.

FCC/ID Notice

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.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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 will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ?? Reorient or relocate the receiving antenna.
- ?? Increase the separation between the equipment and receiver.
- ?? Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ?? Consult your Authorized CompuStar dealer.

REMOTE-PAGER: 2WSSR w/LCD

The model name, 2WSSR, stands for **Two Way Spread Spectrum Remote with Liquid Crystal Display**. This 5-channel transmitter that allows you to activate multiple functions by pressing a combination of 4 buttons on the unit in order to transmit signals.

CompuGLO color LCD

The remote-pager comes with CompuGLO which is a unique color LCD display that visually tells the vehicle owner the security status of your car at all times. There are differing icons that will appear on your CompuGLO LCD indicating what your vehicle is currently doing.



Icon	Explanation
	Indicates if the Shock Sensor is on or off. See page 7.
	Indicate if Turbo Mode is on or off. See page 9.
	Indicates if Timer Start Mode is on or off. See page 9.
	Indicates if Passive Arming Mode is on or off. See page 9.
	Indicates that the second stage shock sensor has been triggered.
	If the icon appears continuously, you are in vibration mode. If the icon blinks, the first stage shock sensor has been triggered. See page 8.
	Indicates if you are in Valet Mode. See page 9.
	Indicates if your car parking lights are flashing.
	Indicates that your car siren is turned on or off when you lock or unlock the vehicle.
	Indicates that someone is paging you from your vehicle.
	Displays if your car is locked or unlocked.
	Indicates if your remote-pager is transmitting signals to the controller unit.
	Displays remaining battery life.
	Displays if your door is open.
	Displays if your vehicle has auto-started properly or ignition on.
	Displays if your trunk is open.

Remote-Pager Button Functions

The user can activate differing functions of CompuStar 2WSSR system by pressing one or two buttons simultaneously [ex. **(I+IV)**] located on the antenna side of your CompuStar remote-pager.

Channel	Button	Press for	Function	Factory Setting
1.	I	1/2 sec	Alarm Mode - on/off	
			RPS – on/off	
2.	II	1/2 sec	Auxiliary Option 1	
3.	III	1/2 sec	Auxiliary Option 2	
4.	IV	1/2 sec	Query Function	
5.	I -	2 sec	Alarm Mode – on/off	
			RPS – on/off	
6.	II -	2 sec	Auto-start Function - on/off	
7.	III -	2 sec	Trunk Release – on/off	
8.	IV -	2 sec	Panic Mode	
9.	(I+II)	1/2 sec	Car Siren for Lock/Unlock-on/off	On

10.	(I+III)	1/2 sec	Valet Mode – on/off	Off
11.	(II+III)	1/2 sec	Passive Arming – on/off	Off
12.	(II+IV)	1/2 sec	Timer Start Mode - on/off	Off
13.	(III+IV)	1/2 sec	Turbo Mode - on/off	Off
14.	(I+III) -	2 sec	Shock Sensor – on/off	On
15.	(II+III) -	2sec	Vibration Mode – on/off	Off
16.	(I+II) -	2 sec	Programming Menu 1	
17.	(I+III) -	2 sec	Programming Menu 2	

Note: () means simultaneously pressing the buttons

Note: () – means simultaneously pressing the buttons for 2 seconds.

Remote-Pager Learn Routine and/or Adding a One Way Remote

Your Antenna Module (ANT-2WSS) has been programmed for your specific remote-pager at the time of installation. If you replace or add an additional ONE WAY REMOTE (ANT-2WSS can be programmed for one remote-pager and 1 one- way remote), please perform the following procedure:

Step 1: Take the AA battery out from the remote-pager.

Step 2: Activate Valet/Programming mode by manually turning the ignition on and off five times with car key within a 10 second period. The parking light will flash once with successful completion of this step.



See the illustration for a typical ignition harness of a vehicle

Step 3: Within a 10 second period after cycling the ignition for the 5th time, insert the AA battery into the remote-pager. The car parking lights will flash once to confirm that the transmitter has been programmed.

Important! Note that you can program only one remote-pager unit for a single antenna module. The new programming will erase any previous remotes that were learned.

Remote-Pager Factory Reset Routine

The remote-pager uses Spread Spectrum Technology (SST). In rare cases, if you press the remote-pager buttons multiple times outside of the transmitting range of the Antenna module, the remote-pager may go out of synchronization. In this case, reset the remote-pager by removing the AA battery and reinsert it back into the remote-pager. Please perform this procedure in close proximity to the vehicle.

USING YOUR SYSTEM

Your CompuStar 2WSSR system has many different modes and functions that can be activated by using your remote-pager unit.

Alarm Mode

You can arm or disarm alarm mode by pressing Button I for a ½ second or 2 seconds. A bolted padlock icon will appear on your CompuGLO LCD indicating that your car is armed and a lock icon will appear showing that your car doors are locked. Also, your car will chirp when you arm or disarm your car.

Press Buttons (I+II) for a ½ second to make your car siren mute when arming or disarming your vehicle. A car siren icon will disappear on the bottom left-hand corner of your CompuGLO LCD indicating that you are in **car siren mute mode**. Keep in mind that your car siren will still activate for all other modes (i.e. panic, alarm, shock sensor) regardless of whether or not your car siren is in mute mode. The car siren will be mute only when arming or disarming your vehicle.

When alarm mode is armed, the following will trigger the remote-pager security alerts:

- ?? Unauthorized car door opening will activate the car siren for 30 to 60 seconds and the parking lights will flash for 60 seconds. The remote-pager will be notified audibly and the door icon will appear in the CompuGLO LCD. Press Button I for a ½ second to turn off the car siren and flashing lights. Repeat this step (press Button I for a ½ second) again to disarm alarm mode.

- ?? Unauthorized trunk door opening will activate the car siren for 30 to 60 seconds and the parking lights will flash for 60 seconds. The remote-pager will beep and the trunk door icon will appear in the CompuGLO LCD. Press Button **I** for a ½ second to turn off the car siren and flashing lights. Repeat this step (press Button **I** for a ½ second) again to disarm alarm mode.

In alarm mode, the **starter kill function** (this maybe an optional feature provided by your installer) is activated. This feature disengages the starter mechanism on your car that prevents you from starting your car even with a manual key when your vehicle's alarm mode is activated.

Note: (Siren duration is 30 to 60 sec depending on the options set at the time of initial installation.)

Dual Stage Shock Sensor

The dual stage shock sensor on the CompuStar 2WSSR can detect between light and heavy impact to your vehicle by sensing vibration produced by differing impacts. Press Buttons **(I+III)** for 2 seconds to activate or deactivate the dual stage shock sensor. A red-bordered indicator box labeled Shock will darken in the top left-hand corner of your CompuGLO LCD showing that your dual stage shock sensor is activated.

The dual stage shock sensor will activate 30 seconds after the CompuStar alarm mode is armed. When the dual shock sensor is engaged, the remote-pager security alerts will be triggered by the following:

- ?? Light impact to your vehicle will activate the **first stage shock sensor** and the car siren will chirp 4 times in addition to the parking lights flashing 4 times. The remote pager unit will beep and a vibration icon will blink in the CompuGLO LCD.
- ?? Heavy impact to your vehicle will activate the **second stage shock sensor** and the car siren will chirp for 30 to 60 seconds and the parking lights will flash for 30 to 60 seconds. The remote-pager will be notified audibly and a hammer icon will blink in the CompuGLO LCD. Press Button **I** for a ½ second to turn off the second stage shock sensor sirens and flashing lights.

Note: You may want to deactivate the dual-stage shock sensor if you park your vehicle where there is significant vibration.

Auto-Start Function

Press Button **II** for 2 seconds to auto-start an automatic transmission engine. You will hear one beep from your remote-pager if there is successful communication with your vehicle. The engine will start and give you a visual confirmation by an exhaust fume icon coming out from the tailpipe on the remote-pager CompuGLO LCD.

Remember that a manual key in the ignition is required to drive the car. In addition, the **anti-grind circuit** (this maybe an optional feature provided by your installer) prevents you from re-cranking the starter on a remote-started vehicle. Press Button **II** for 2 seconds in order to turn off an auto-started car. For manual transmission vehicles, please use reservation mode.

The engine will run 15 or 25 minutes (25 or 40 min for diesel) depending on preset options at the time of installation, and then shut off. If your remote-pager has a problem starting the vehicle, the CompuStar controller will try 2 additional times. If the engine does not start after the third attempt, please call your authorized CompuStar dealer.

Diagnosing problems with Auto-Start

If there is a problem in auto-starting your car, you will hear three chirps when you attempt to auto-start the car. Wait for 2 seconds and the cause for the error will be indicated by the number of times the car chirps and parking lights flash.

Error Number (# of times the car chirps & parking lights flash)	Error Reason
1	Engine On
2	Key On
3	Door Open
4	Trunk Open
5	Brake On
6	Hood Open
7	Reservation Off (Manual Transmission Only)

Panic Mode

Panic Mode allows the owner to draw attention to the car in case of an emergency or in order to easily locate your vehicle in a large parking lot. Press Button **IV** for 2 seconds on the remote-pager to enter Panic Mode. In this mode, the car will arm if not armed already and the siren will activate and the parking lights will flash. In order to disengage Panic Mode, press Button **IV** for 2 seconds. Then, press Button **I** for a ½ second to unlock/disarm your vehicle.

Reservation Mode (manual transmission only)

In order to auto-start your manual transmission car, you must first set the CompuStar system to Reservation Mode before leaving your vehicle. The purpose of Reservation Mode is to leave the transmission gear in the neutral position when you leave your vehicle. Reservation mode is intended for use in MANUAL TRANSMISSIONS ONLY and NOT FOR AUTOMATIC TRANSMISSIONS. Reservation Mode must be engaged each and every time you leave your manual transmission car in order to auto-start the vehicle.

Note: The system is not recommended for vehicles with removable tops.

Important Requirements to activate Reservation Mode

- ?? The transmission must be in the NEUTRAL position.
- ?? The vehicle windows must be rolled up.
- ?? Do not set the reservation mode with people in the vehicle.
- ?? Do not auto-start the car with people in the vehicle.

Activating Reservation Mode (MANUAL TRANSMISSION ONLY)

Step 1: After arriving at your destination, and BEFORE TURNING YOUR ENGINE OFF, place the transmission in the Neutral position.

Step 2: Remove your foot from the foot brake.

Step 3: Activate the parking brake.

Step 4: Remove the key from the ignition. The engine will remain running.

Step 5: Exit the vehicle and close the door within two minutes after activating the parking break. The engine will shut off and reservation mode for the remote starter is now complete.

Your vehicle is now ready for auto-starting. However, the reservation mode will be cancelled if the door is opened or the CompuStar system is put in Valet mode after the reservation has been set. Once cancelled, you will have to start the vehicle with the manual key and repeat the above 5 steps if you want to restore reservation mode.

Important! If you try to auto-start the vehicle when reservation mode has not been set or turned on, the auto-start feature will not work. When you press the auto-start button, the car parking lights will flash three times and the door icon in the CompuGLO LCD will be flashing to inform you that reservation mode has not been set.

Canceling Reservation Mode

If you do not want to set reservation mode, shut off the engine before you exit the vehicle. The engine will shut off for the following reasons:

- ?? You did not activate the parking brake or pressed the foot brake when you turned the manual key to the off position.
- ?? You released the parking brake while the engine was running.
- ?? You entered Valet Mode after the Reservation Mode has been completed.

Query Function

Query Function allows the owner to visually monitor the status of your car by looking at the remote-pager CompuGLO LCD icons. Press Button **IV** for a ½ second to activate the Query Function.

Trunk Release

Press Button **III** for 2 seconds in order to unlock and release your trunk door. Note that the trunk release function will not only release the trunk but will unlock all the doors as well.

Vibration Mode

If the vibration mode is turned on, the Remote-Pager will vibrate instead of beep only when one of the entry points or shock sensor inputs is triggered. You can turn vibration mode on or off by pressing Buttons **(II+III)** for 2 seconds.

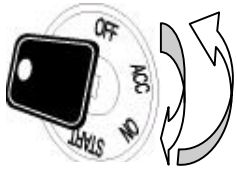
Car Siren

The car siren chirps once for lock and twice for unlock. You can delete this audible chirping by pressing Buttons **(I+II)** for a ½ second and the car siren icon will disappear on the CompuGLO LCD.

Valet Mode

Valet Mode is intended to deactivate most of the features of your CompuStar 2WSSR system especially the security alerts/monitoring and remote starting. The only feature operating in valet mode is the keyless entry function and optional auxiliary functions. This mode allows a valet to operate your car with your authorization without him or her triggering all the security features or remote-starting your vehicle. Also, Valet Mode is very useful when washing your vehicle or having it serviced.

In order to enter Valet mode, press Buttons **(I+III)** simultaneously for a ½ second. The remote-pager CompuGLO LCD will display a ZZZ icon indicating that you are in Valet Mode. In order to manually enter Valet Mode, insert your car key into the ignition and turn the ignition on and off five times within 10 seconds. See the illustration below for a typical ignition harness of a vehicle.



You can exit Valet Mode only by pressing Buttons **(I+III)** simultaneously for a ½ second.

Timer Start Mode

In Timer Start Mode, your car automatically starts every 1.5 or 3.0 hours depending on preset options during the time of installation for a 24-hour period. This mode is deleted automatically after 24 hours or once you start your car with either your manual key or remote-pager. In order to enter Timer Start Mode, press Buttons **(II+IV)** simultaneously for a ½ second.

A red-bordered indicator box labeled Timer will darken on the top of your CompuGLO LCD demonstrating that you are in Timer Start Mode. Press Buttons **(II+IV)** simultaneously for a ½ second to exit Timer Start Mode. Timer Start Mode is automatically cancelled when you start the vehicle with the key or by remote.

Also, note that Timer Start Mode becomes **Cold Start Mode** once an optional temperature sensor is installed. See page 10 for more details.

Important! Timer Start Mode should be used only in open areas. Never start and run the vehicle in an enclosed space such as a garage or carport.

OPTIONAL PROGRAMMABLE FEATURES

These additional programmable features can be programmed to the CompuStar system by your authorized CompuStar dealer.

Ignition Lock

This programmable option enables your vehicle to automatically lock the doors upon pressing the brake pedal after the vehicle has been started with a key. In addition, the vehicle will automatically unlock the doors upon pulling the key out from the ignition. This option must be chosen at the time of installation.

Passive Arming

You can turn this function on or off by pressing Buttons **(II+III)** for a ½ second.

When set to passive arming, your security system will arm automatically 30 seconds after all the car doors are closed. There are two types of passive arming that can be programmed by your CompuStar dealership: (1) passive arming with passive lock and (2) passive arming without passive lock

Passive locking means the door will lock when the system passively arms. In the default factory setting, the system is armed and locked actively which means the system will only arm/lock when the remote-pager is utilized.

Turbo Mode

If this optional Turbo Mode has been programmed at the time of installation, you can turn this feature on and off by pressing Buttons **(III+IV)** for a ½ second.

Under this mode, engine continues running for 2 minutes after key has been taken out from the ignition if emergency brake was on when the key is taken out. To utilize this mode, the emergency brake sensing wire has to be connected to the emergency brake wire of the vehicle. Consult the authorized dealer for this mode.

OPTIONAL INSTALLATION FEATURES

The CompuStar 2WSSR remote-pager has additional features and expansion possibilities that require additional parts and labor.

RPS (Remote Paging System)

The RPS is a feature that allows an individual to page the owner of a vehicle by simply tapping on the front windshield of the car. RPS is automatically turned on upon activating alarm mode (pressing Button I for a ½ second) on the CompuStar 2WSSR.

The RPS module is a single sensor on the outside edge of your driver's side front window shield that can be activated by tapping a manual key producing a high-frequency vibration. This high-frequency vibration is detected and your remote-pager will beep and a telephone icon will appear on the CompuGLO LCD indicating that someone is paging you from your vehicle. Press Button I, II, III or IV for a ½ second to deactivate the RPS visual and audible paging alerts.

Cold Start Mode

If the optional temperature sensor has been installed, Timer Start Mode becomes Cold Start Mode. Under this mode, your car automatically starts if the temperature of the inside of the vehicle goes below the preset temperature. The minimum interval between the starts will be 1.5 or 3.0 hours depending on preset options during the time of installation. Cold Start Mode is activated or deactivated by pressing Buttons (II+IV) for a ½ second.

Optional Auxiliary 1 & Auxiliary 2

The auxiliary system is an optional car feature that can be tailored for your vehicle by your local authorized CompuStar dealership. The auxiliary feature allows you to customize the buttons on your remote-pager to add more functionality to your car. For example, you can customize your car to have remote power control of your windows, radio, and sunroof in addition to the rooftop on your convertible car. The remote-pager has two outputs (Aux 1 & Aux 2) that can be custom utilized with optional features. Please contact your local authorized CompuStar dealer for more information.

Safety Shut Down Features

CompuStar 2WSSR system has several shut down safety features. The following actions will shut down the engine or prevent the car from auto-starting:

- ?? Opening of the car engine hood.
- ?? Pressing of the car engine break.
- ?? Valet mode is turned on.

Frequently Asked Questions

Is the CompuStar Remote compatible with an existing alarm or auto-start system?

The CompuStar transmitter is not compatible with other systems due to our unique Spread Spectrum frequency modulation. It is proprietary to CompuStar.

Is there a monthly charge for the remote-pager?

No, the CompuStar system is based on Spread Spectrum modulation with up to a 1.25 mile transmitting and receiving distance without a monthly fee.

How can I find the nearest Authorized CompuStar Dealer in my area?

CompuStar dealers have expanded worldwide in over 24 countries. Finding a dealer near you is as easy as a toll-free call to our customer support telephone number at 888-820-3690 or via email to dealerlocator@compustar.org.

What is the warranty coverage on a CompuStar system?

There is a Limited lifetime warranty on the brain as installed by an Authorized CompuStar Dealer (US and Canada Only), and the remote-pager device's warranty is one year from the date of purchase.

What type of battery does the remote-pager use and how long will it last?

The remote-pager uses a standard AA battery and will last typically 1 to 2 months with normal use depending on the frequency of use and features used, i.e.: vibration mode.

Can I buy the CompuStar through the Internet?

All Internet sales of CompuStar are prohibited and all applicable warranties and registration will be voided and no technical support will be offered.

Are the 2W Series, 2000 Series and SST Series compatible with each other?

Unfortunately, the three systems are not compatible with one another due to the advances in the technology and use of additional features.

Will the CompuStar Auto-start system work safely on a manual transmission vehicle?

Yes, the CompuStar system will operate safely on manual transmission vehicles with the proper and professional installation at your Authorized CompuStar dealer. However, this installation procedure is entirely up to the dealer.

Troubleshooting

I cannot turn off Panic Mode's car siren and flashing parking lights.

In order to turn off Panic Mode, press Button **I** for a ½ second to disengage the car siren and flashing parking lights. However, the car is still armed in alarm mode. You must press Button **I** for a ½ second again to disarm alarm mode and unlock your doors.

I cannot turn off Alarm Mode's car siren and flashing parking lights.

In order to turn off Alarm Mode, press Button **I** for a ½ second to disengage the car siren and flashing parking lights. However, the car is still armed in alarm mode. You must press Button **I** for a ½ second again to disarm alarm mode and unlock your doors.

I keep banging on my car but my dual stage shock sensor will not work.

First, check to see that the dual stage shock sensor is activated by observing that a red-bordered indicator box labeled Shock that is darkened in the top left-hand corner of your CompuGLO LCD. If the indicator box is not darkened, your dual stage shock sensor is not activated. Turn on the dual stage shock sensor by pressing Button **(I+IV)** simultaneously for a ½ second. Note that the dual stage shock sensor will only activate 30 seconds after the alarm mode is armed. Press Buttons **(I+IV)** simultaneously for a ½ second to deactivate the dual stage shock sensor.

My remote pager is not working. I press all the buttons and nothing happens. I am sure that I am within the transmitting range.

First, check to see if you have enough battery life in remote-pager unit by looking at the battery life indicator icon in the bottom right hand corner of your CompuGLO LCD screen. Replace your battery if indicated. A standard AA battery will last 1 to 2 months depending on usage and the paging mode you choose. i.e.: Vibration mode. You will notice a loss of transmitting distance and backlight function with declining battery life.

Second, take the battery out and reinsert within a 10 second period. You have just reset the computer chip of the remote pager. This may happen sometimes, not always, if you keep pressing the remote pager buttons more than 5 to 6 times outside of the transmitting range.

Third, in rare instances, a power surge and/or electrical shock will disable the CompuStar system when servicing your vehicle. This brief moment of increased electrical power to the CompuStar brain will erase all the programming functions of your system. In this case, you must reprogram the remote-pager unit to "learn" the CompuStar brain. Read page 6 for the remote-pager learning procedure.

Otherwise, the most likely cause is that the radio frequency mechanism inside your remote-pager that transmits the 900 MHz frequency is damaged. Physical damage such as dropping the remote-pager is usually the cause of the crystal not working. In this case, you must get a new remote-pager by contacting your nearest CompuStar authorized dealer for a replacement.

My automatic transmission car is not auto-starting remotely.

Most likely, you did not push Button **II** for the required 2 seconds. Pushing Button **II** for only a ½ second engages the optional auxiliary function instead of auto-start.

Another reason maybe that you are in Valet Mode. If there is a ZZZ icon on your remote-pager unit, you are in this mode and all the functions of the CompuStar 2WSSR are disabled except for keyless entry. Press Button **(I+III)** simultaneously for a ½ second to deactivate Valet Mode.

If there is a problem in auto-starting your car, you will hear three chirps from your remote-pager when you attempt to auto-start the vehicle. After waiting two seconds, the diagnosis for the auto-start error will be indicated depending on the number of times the car chirps and parking lights flash. For example, 4 car chirps and parking light flashes indicates that the car did not auto-start because the trunk was open. Please see page 7 of the user's manual for the error diagnosis table.

My manual transmission car is not auto-starting remotely.

Most likely, you did not push Button **II** for the required 2 seconds. Pushing Button **II** for only a ½ second engages the optional auxiliary function instead of auto-start.

For manual transmission cars, the vehicle must be in reservation mode before you can auto-start your car remotely. If your remote-pager door icon flashes and beeps three times along with your car's parking light flashing three times when you try to auto-start your manual-transmission car, reservation mode has not been set. Please see page 11 of this manual for instructions and important requirements to activate reservation mode. Note that your car will not auto-start if you are in Valet Mode or if your Valet Switch is turned on despite being in reservation mode.

Another reason maybe that you are in Valet Mode. If there is a ZZZ icon on your remote-pager unit, you are in this mode and all the functions of the CompuStar 2WSSR are disabled except for keyless entry. Press Button **(I+III)** simultaneously for a ½ second to deactivate Valet Mode.

If there is a problem in auto-starting your car, you will hear three chirps from your remote-pager when you attempt to auto-start the vehicle. After waiting two seconds, the diagnosis for the auto-start error will be indicated depending on the number of times the car chirps and parking lights flash. For example, 4 car chirps and parking light flashes indicates that the car did not auto-start because the trunk was open. Please see page 7 of the user's manual for the error diagnosis table.

My car is armed in alarm mode and my remote-pager is not working or I do not have my remote-pager. How do I avoid triggering the CompuStar starter kill function so I can drive my car?

Unlock the car door with your manual key, which will trigger the car's siren and parking lights. You must manually override the CompuStar security and auto-start functions by putting the car into Valet Mode. This mode will disable all the functions of the CompuStar except for keyless entry.

In order to enter Valet Mode, cycle the ignition key from the off position to the on position 5 times within a 10 second period. You are now in Valet Mode and have disabled the CompuStar 2WSSR security system except for keyless entry.

I keep banging on my RPS (remote paging system) sensor but it is not working.

RPS sensor is usually located on the outside edge of the driver's side front window shield and detects high frequency vibration. Therefore, in order to properly activate RPS, the user must produce a high-frequency sound by tapping with a car key where the RPS sensor is located. Simply pounding on the front windshield with your hand will not produce the required high frequency vibration and therefore will not activate the RPS system.

How do I deactivate my RPS audible and visual (telephone icon) paging alerts on my remote-pager?

Press Button **I, II, III or IV** for a ½ second to deactivate the RPS paging alerts.

My remote pager unit is not beeping audibly when I push the buttons.

Check to see if you are in **remote-pager vibration mode** by observing a vibration icon that appears continuously in the upper left-hand corner of your CompuGLO LCD screen. Press Buttons **(II+III)** for 2 seconds to deactivate vibration mode and the vibration icon will disappear.

My car is not chirping when I arm or disarm alarm mode.

Check to see if you are in silent arm / disarm mode by observing a car siren icon in the bottom left-hand corner of your CompuGLO LCD Screen. Press Buttons **(I+II)** for a ½ second to deactivate the car siren when arming/disarming your vehicle and the car siren icon will disappear. Keep in mind that your car siren will still activate for all other modes (i.e. panic, alarm, shock sensor, etc) regardless of whether or not your car siren is in mute mode.

Limited Lifetime Consumer Warranty

Firstech, Inc Warrants to the original purchaser that this product shall be free of defects in material and workmanship under normal use and circumstances for the period of time that the original owner of this product owns the vehicle in which it is installed; except that the remote controller unit for the period of one year from the date of installation to the original owner of this product. When the original purchaser returns the product to the retail store where it was purchased or pre-paid postal to Firstech, Inc., 801 E. 82nd Ave Suite 1 Anchorage, Alaska 99518, USA within the warranty period, and if the product is defective, Firstech, Inc, will at its option repair or replace such.

TO THE MAXIMUM EXTENT ALLOWED BY LAW, ANY AND ALL WARRANTIES ARE EXCLUDED BY THE MANUFACTURER AND EACH ENTITY PARTICIPATING IN THE STREAM OF COMMERCE THEREWITH. THIS EXCLUSION INCLUDES BUT IS NOT LIMITED TO, THE EXCLUSION OF ANY AND ALL WARRANTY OF MERCHANTABILITY AND/OR ANY AND ALL WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND/OR ANY AND ALL WARRANTY OF NON-INFRINGEMENT OR PATENTS, IN THE UNITED STATES OF AMERICA AND/OR ABROAD. NEITHER THE MANUFACTURER OF ANY ENTITIES CONNECTED THEREWITH SHALL BE RESPONSIBLE OR LIABLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGES FOR LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE. NOTWITHSTANDING THE ABOVE, MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR THE CONTROL MODULE AS DESCRIBED ABOVE. Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights, and you may also have other rights, which vary State to State.

Firstech, Inc. is not RESPONSIBLE OR LIABLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGES FOR LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE that may or may not resulted from the operation of Compustar. NOT WITHSTANDING THE ABOVE, THE MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR THE CONTROL MODULE AS DESCRIBED ABOVE.

Your Warranty

The product's warranty is automatically void if its date code or serial number is defaced, missing or altered. This warranty will not be valid unless you have completed the registration card and mailed it to Firstech, Inc., within 10 days after the purchase to the address listed on the registration card.

Firstech, Inc.
801 E. 82nd Ave.
Bldg. B. Suite 1
Anchorage, AK. 99518
888-820-3690

WARRANTY REGISTRATION

Name: _____.

Address: _____.

City: _____, State _____.

Zip: _____.

Place of purchase: _____.

Date of Purchase: _____.

Model Number: _____.

Purchase Price: _____.

Vehicle Make: _____.

Model: _____.

How did you hear about CompuStar? (ie: Trade publications, Internet, Dealership, Friend, etc.)