



CompuStar 2WSSR

By Firstech, Inc

INSTALLATION AND USER'S GUIDE

website: www.compustar.org

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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

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. Press Buttons (II+III) for a ½ second to make your remote-pager mute. A vibration icon will appear continuously on the upper left-hand corner of your CompuGLO LCD indicating that you are in **remote-pager mute mode**.

Remote-Pager 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.



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 VPS - 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	Same as pressing ½ secs.	
6.	II -	2 sec	Auto-start Function - on/off	
7.	III -	2 sec	Trunk Release - on/off	
8.	IV -	2 sec	Panic	Off
9.	(I+II)	1/2 sec	Car Siren (mute) - on/off	On
10.	(I+III)	1/2 sec	Valet Mode – on/off	Off
11.	(I+IV)	1/2 sec	Ignition Lock - on/off	Off
12.	(II+III)	1/2 sec	Passive Lock - on/off	Off
13.	(II+IV)	1/2 sec	Timer Start Mode - on/off	Off
14.	(III+IV)	1/2 sec	Turbo Mode - on/off	Off
15.	(I+III) -	2 sec	Shock Sensor – on/off	On
16.	(II+III) -	2sec	Remote-Pager Beep (mute) - on/off	On
17.	(I+II) -	2 sec	Programming Menu 1	
18.	(I+III) -	2 sec	Programming Menu 2	

Note: () means simultaneously pressing the buttons

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

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.

When alarm mode is armed, the remote-pager security alerts will be triggered by the following:

- 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** is activated. This feature disengages the starter mechanism on your car, which 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 second 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 appear 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 60 seconds. The remote-pager will be notified audibly and a hammer icon will appear in the CompuGLO LCD. Press Button **I** for a ½ second to turn off the second stage shock sensor sirens and flashing lights.

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.

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** prevents you from overcranking 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, CompuStar 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)

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.

CompuGLO Back-Light Mode

Press Button **IV** for 2 seconds to activate light mode. A red-border indicator box named Light will darken in the upper right-hand corner of your CompuGLO LCD indicating that light mode is activated. In this mode, when you press the remote-pager buttons, the CompuGLO LCD will glow. In order to turn off light mode, press Button **IV** for 2 seconds.

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.

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 press 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.

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.
- Valet switch is turned on.

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 or insert the key into the ignition and turn the ignition on and off five times within 10 seconds. The remote-pager CompuGLO LCD will display a ZZZ icon indicating that you are in Valet Mode. In order to exit Valet Mode, press Buttons **(I+III)** simultaneously for a ½ second.

Timer Start Mode

In Timer Start Mode, your car automatically starts every 1.5 hours for 15 to 25 minutes 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 left-hand corner 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.

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.

ADDITIONAL FEATURES

The CompuStar 2WSSR remote-pager has additional features and expansion possibilities.

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.

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 10 of the user's manual for the error diagnosis table.

On a small minority of cars, you maybe equipped with a Valet Switch that is located under the car's dashboard that disables the auto-start system manually when the switch is turned to the on position. Turn the Valet Switch to the off position and your car will auto-start.

INSTALLATION

Please refer the wiring diagram.

1. Dip Switch and Jumper Settings

Dip Switch	Jumper	#1	#2
Off	Cut: Automatic Transmission	Alternator Sensing	15 min run time (25 min diesel)
On	Uncut: Manual Transmission	Tach Sensing	25 min run time (45 min diesel)

2. Transmitter/Receiver Learn Routine

Your remote-pager has been programmed for your specific CompuStar brain at the time of installation.

Step 1: Remove the AA battery from the remote.

Step 2: Activate Valet/Programming mode by manually turning the ignition on and off five times with car key within a 10 second period which is the technically similar to giving the **Green** wire 12V pulse five times. The parking light will flash once with successful completion of this step.

Step 3: Within a 6 second period after cycling the ignition for the 5th time, Insert the batter back to the remote. 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 units (2WSSR) for a single CompuStar brain. You can program another 1 Way remote (1WFMR900Meg).

3. Programming Options with the Remote-Pager

The features of your CompuStar 2000AS system can be changed by utilizing the programming options with your remote-pager. Changing of these programming options is intended be performed by your local authorized CompuStar dealer.

- Step 1:** For Programming menu 1: Press Buttons **(I+II)** for 2 seconds.
For Programming menu 2: Press Buttons **(I+III)** for 2 seconds. The car will chirp once indicating that you are in programming mode.
- Step 2:** Within a 2 second period after choosing your programming menu, press Button **IV** the number of times to go to the option number you want to change. You will hear a chirp and see the parking lights flash each time you press Button **IV**.
- Step 3:** Wait a few seconds. You will hear a number of chirps and see a number of parking light flashes corresponding to the option number you want to change. If the number of chirps or flashes is not what you want, go back to Step 1.
- Step 4:** Press Button **I** for the default factory settings and your car will respond by one chirp and one flash. Press Button **II** for the optional setting and your car will respond by two chirps and two parking flashes.

- If you hear a long chirp, you are going out of programming mode, please go back to Step 1.
- If you want to change more options, go back to Step 1.

Resetting the Programming Options to the factory default settings.

Step 1: Press Buttons (I+II) simultaneously or Buttons (I+III) simultaneously for 2 seconds. Step 1 is confirmed by a car chirp and a one-time flashing of the parking light.

Step 2: Press Button III three times. This is confirmed by a car chirp and parking light flash each time you press Button III. Hence, your car will chirp and parking light flash three times by pressing Button III three times. Your car is now set to the original factory default settings.

Remote-Pager Programming Menu Options

Programming Menu #1 (Auto-Start and Door Lock Options)

	Feature	Factory Default Setting – Button I	Optional Setting – Button II
1-1	Unlock Before, Lock After Starting	OFF	ON
1-2	Door Lock / Unlock Pulse Duration	0.5 sec	2.0 sec
1-3	Min. Crank Time for the Alternator Sensing	0.8 sec	1.0 sec
1-4	Driver's Priority Unlock	OFF	ON
1-5	Double Pulse Unlock	OFF	ON
1-6	Dome Light Factory Rearm	OFF	ON

1-7	Turbo	OFF	ON
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Programming Menu #2 (Security Options)

	Feature	Factory Default Setting – Button I	Optional Setting – Button II
2-1	Cold Start with Temp Sensor	OFF	ON
2-2	Timer Start or Minimim Interval between Cold Starts	3 Hr	1.5 Hr
2-3	Passive Arming	Passive Locking, too	No Passive Locking
2-4	Anti-jacking	OFF	ON
2-5	Ignition Controlled Door Lock	OFF	ON
2-6	Aux 1 Output	.5 sec	Latch
2-7	Aux 2 Output	.5 sec	Latch
2-8	Siren Duration	30 sec	60 sec