CompuStar 2WFMR

Two-Way FM Remote

USER'S GUIDE

By Firstech, Inc.

Website: www.compustar.org

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Important Information:
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: Charges or modifications could void the User's authority to operate this device.

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.

Remote-Pager: 2WFMR w/LCD

The model name, 2WFMR, stands for **Two Way Frequency Modulation Remote with Liquid Crystal Display**. This 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
Auto	N/A
Turbo	IndicateS if Turbo Mode is on or off.
Timer	Indicates if Timer Start Mode is on or off.
Passive	Indicates if Passive Arming Mode is on or off.
Hammer	Indicates that the first or second stage shock sensor has bee triggered.
Remote Vibration	Indicates that Shock sensor is by-passed or not.
Zzzz	Indicates if you are in Valet Mode.
Parking Lights	Indicates if your car parking lights are flashing.
Car Siren	Indicates that your car siren is turned on or off when you lock unlock the vehicle.
Phone	Indicates that someone is paging you from your vehicle.
Lock/Unlock	Displays if your car is armed or disarmed.
Transmitting	Indicates if your remote-pager is transmitting signals to the controller unit.
Battery	Displays remaining battery life.
Blinking Battery while engine running	Displays running time left – each bar represents 25% of the running time.
Door	Displays if your door is open.
Exhaust Fumes	Displays if your vehicle has auto-started properly or ignition o
Trunk	Displays if your trunk is open.
Hood	Displays if your hood is open.

Remote-Pager Button Functions

	Button	Pressed For	Function
1.	I	1/2 sec	Alarm Mode - on/off, RPS – on/of Siren Off, Starter Kill (Anti-Grind) 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	Auto Lock On/Off
6.	II -	2 sec	Auto-start Function - on/off
7.	III -	2 sec	Trunk Release – on/off
8.	IV -	2 sec	Panic, Press I to shut off Siren.
9.	(I+II)	1/2 sec	Siren Chirps for Lock/Unlock-on/o
10.	(I+III)	1/2 sec	Valet Mode – on/off
11.	(II+III)	1/2 sec	Passive Arming – on/off
12.	(II+IV)	1/2 sec	Timer Start Mode - on/off
13.	(III+IV)	1/2 sec	Turbo Mode - on/off
14	(I+III) -	2 sec	Shock Sensor – on/off
16.	(I+II) -	2 sec	Programming Menu 1 – Installer (
17.	(I+IV) -	2 sec	Programming Menu 2 – Installer (

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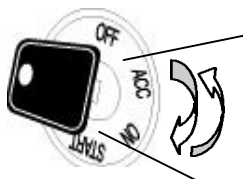- meand pressing the button for 2 seconds.
( ) means simultaneously pressing the buttons
( ) – means simultaneously pressing the buttons for 2 seconds

Remote-Pager Learn Routine

If you replace or add additional remotes, you can program up to three remotes, please perform the following procedure:

Step 1: Activate Valet/Programming mode by manually turning the ignition on and off five times (**between Acc and On**) with car key within a 10 second period. The parking light will flash once with successful completion of this step.

Step 2: Within a 10 second period after cycling the ignition for the 5th time, press button I. The car parking lights will flash once to confirm that the transmitter has been programmed. Continue program the additional remotes. The parking lights will flash two times when the programming mode is expired.

Alarm Mode

You can arm or disarm alarm mode by pressing Button **I** for a ½ second. Press Buttons **(I+II)** for a ½ second to make your car siren mute when arming or disarming your vehicle. 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.

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: If you lose your remote after you have armed the vehicle, use your key to open the vehicle. The siren will go off. Turn on and off ignition 5 times with your key to shut off the siren and turn the system into valet mode. Cancel the valet mode with remote later. See Valet mode.

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

Dual Stage Shock Sensor

Press Buttons **(I+III)** for 2 seconds to activate or deactivate the dual stage shock sensor. 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 the hammer icon shows up a couple times
> 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.

Auto-Start Function

Press Button **II** for 2 seconds to auto-start an automatic transmission engine.

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, CompuStar will try 2 additional times. If the engine does not start after the third attempt, please call your authorized CompuStar dealer.

Flashing Battery Icon during remote start.   The battery icon flashes while engine running. Each of the 4 bars of the battery indicates 25% of the remaining engine running time.

Continuation Mode:
While your vehicle is running with your key, if you press button II for 2 seconds, you are now in the continuation mode. Your engine will continue running for the preset time even if you take your key from the ignition. With this mode, the engine will continue running without key during your quick stop at, for example, a grocery store.

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/E-Brake On
6	Hood Open
7	Reservation Off (Manual Transmission Only)

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 <u>BEFORE TURNING YOUR ENGINE OFF</u>, 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 brake. 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 remote beeps three times, the car parking lights will flash five times and the siren chirps three times. A couple of seconds later, the cause for the error will be indicated by the number of times the car chirps and parking lights flash. See Page 11 for error messages.

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.

Error Messages

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, Emergency Brake Released
6	Hood Open
7	Reservation Off (Manual Transmission Only)

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.

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.
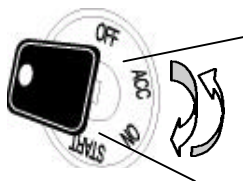
Panic Mode

Press Button **IV** for 2 seconds 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 **I** for ½ second. Then, press Button **I** for a ½ second to unlock/disarm your vehicle.

If **Anti-Jacking** option has been programmed (ask your dealer if you like to have this option) and the Ignition-Kill has been installed , the Panic Mode works as Anti-Jacking if the car key in the ignition. In Anti-Jacking mode is activated while key is in the ignition, a)Siren will go off for 1.5 minutes, and b) Ignition-Kill will be activated after the first 30 seconds.   That is to give warning to the hijacker for the first 30 seconds and then to disconnect the ignition after that to stop the vehicle

Valet Mode

The only feature operating in valet mode is the keyless entry function and optional auxiliary functions. 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. In order to manually enter Valet Mode, insert your car key into the ignition and turn the ignition on and off **(between ACC and ON)** five times within 10 seconds

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.

Also, note that Timer Start Mode becomes ***Cold Start Mode*** once an optional temperature sensor is installed.

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.

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 brake or Valet mode is turned on.

RPS (Remote Paging System)

The optional 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 2WFMR.

The RPS module 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 ⅛ second to deactivate the RPS visual and audible paging alerts.

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 when the brake pedal is pressed after starting the vehicle with a key. In addition, the vehicle will automatically unlock the doors upon pulling the key out from the ignition. However, if the emergency brake wire was installed, the vehicle will unlock upon the emergency brake is set if the engine is still running with the key. This option must be chosen at the time of installation.

Auto Arming –N/A

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 with active 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.

Note:
1. **If you select both Auto Arming and Passive Arming, Auto Arming takes priority over Passive Arming.**
2. **If you select Passive Arming with Active Lock in the programming option, you are also selecting Auto Arming without Auto Lock. Consult your installer.**

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.

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 ½second.

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. 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.