

CompuStar 2WFMRs

Two-Way FM Remote

USER'S GUIDE

By Firstech, Inc.

Website: 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.

Remote-Pager: 2WFMR w/LED

The model name, 2WFMR, stands for **Two Way Frequency Modulation Remote with L.E.D.** This transmitter that allows you to activate multiple functions by pressing a combination of 4 buttons on the unit in order to transmit signals.

Remote-Pager Button Functions

	Button	Pressed For	Function
1.	I	1/2 sec	Lock/Unlock
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	N/A
6.	II -	2 sec	Auto-start Function - on/off
7.	III -	2 sec	Trunk Release – on/off
8.	IV -	2 sec	N/A.
9.	(I+II)	1/2 sec	N/A
10.	(I+III)	1/2 sec	Valet Mode – on/off
11.	(II+III)	1/2 sec	N/A
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	N/A
16.	(I+II) -	2 sec	Programming Menu 1 – Installer Only
17.	(I+IV) -	2 sec	Programming Menu 2 – Installer Only

Note:

- meand pressing the button for 2 seconds.

() means simultaneously pressing the buttons

() – means simultaneously pressing the buttons for 2 seconds

Remote Button Functions

	Button	Press ed For	Function
1.	I		Lock/Unlock
2.	II -	2 sec	Auto-start Function - on/off
3.	III -	2 sec	Trunk Release – on/off

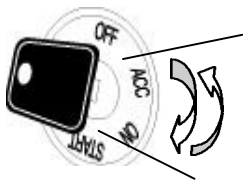
4.	IV		Query Function
5.	(I+III)		Valet Mode – on/off
6.	(II+III)		Passive Locking – on/off
7.	(II+IV)		Timer Start Mode - on/off
8.	(III+IV)		Turbo Mode – On/Off
9.	(I+II) -	2 sec	Programming Menu 1 – Installer Only
10.	(I+IV) -	2 sec	Programming Menu 2 – Installer Only

Note: () means simultaneously pressing the buttons

Remote 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.

Keyless Entree

You can lock or unlock by pressing Button I for a 1/2second.

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 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.

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, wait for few seconds and the cause for the error will be indicated by the number of times the car 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 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 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 car parking lights will flash five 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 __ 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

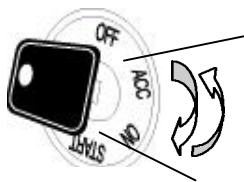
Query Function allows the owner to visually monitor the status of your car. Press Button **IV** for a $\frac{1}{2}$ second to activate the Query Function.

Status of Car	Parking Light Flash
Lock, Engine Off	Once
Unlock, Engine Off	Twice
Lock, Engine On	Three Times
Unlock, Engine On	Four Times

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. 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.

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. In order to enter Timer Start Mode, press Buttons **(II+IV)** simultaneously for a 1/2 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 1WAM4R 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.

OPTIONAL PROGRAMMABLE FEATURES

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

Ignition Lock

Automatic Transmission Vehicle: This programmable option enables your vehicle to automatically lock the doors upon starting the vehicle 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.

Manual Transmission Vehicle or Turbo Mode: This programmable option will lock the doors in 5 seconds after starting the vehicle with a key and the emergency brake is released.

Passive Locking

You can turn this function on or off by pressing Buttons **(II+III)** for a 1/2 second . When set to passive locking, your system will lock automatically 30 seconds after all the car doors are closed.

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).

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 1WAM4R remote 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 ~~1~~second.

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: Changes or modifications could void the authority of the user to operate this device.