

2WAMR Two-Way AM Remote

USER'S GUIDE

FCC ID : O44J2WAMR

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.

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2WAMR

Young Shin Electronics, Inc.
www.magicar.com

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Safety Information

Please take these safety precautions into consideration under the following conditions:

1. Servicing the vehicle

When servicing your automobile (i.e. changing the oil, washing your car), the Young Shin Electronics, Inc 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 Young Shin Electronics, Inc, you may want to put the vehicle in Valet mode. This will prevent the borrower from accidentally activating the Young Shin Electronics, Inc auto-security system.

3. For manual transmission vehicles

If the Young Shin Electronics, Inc 2WAMR is installed in a manual transmission vehicle, extra precautions are required because the Young Shin Electronics, Inc does not monitor the gear shift :

Important! Under normal circumstances, Reservation Mode is cancelled when a door or hatchback opens. Please verify that the opening of any door or hatchback cancels Reservation Mode. If any of the doors or hatchback are not monitored by Young Shin Electronics, Inc because of improper installation or a faulty dome light switch, do not use the Young Shin Electronics, Inc and take your vehicle immediately to the dealer for repair. Do not set Reservation Mode if the window(s) are open or if there is anyone inside the vehicle, this includes animals. Remote start installation in a manual transmission vehicle with a convertible top is not recommended.

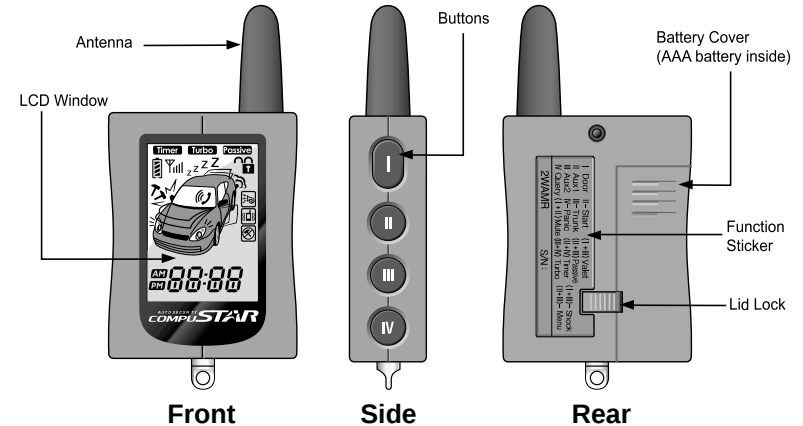
Remote-Pager : 2WAMR w/LCD

The model name, 2WAMR stands for **Two Way Amplitude Modulated Remote with Liquid Crystal Display**.

This transmitter allows you to activate multiple functions by pressing different combinations of the 4 buttons on the unit.

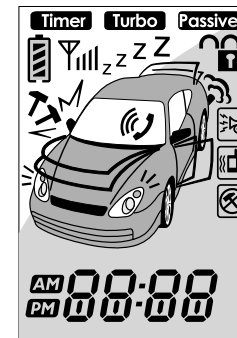
Description of Remote Appearance

The model name, 2WAMR, stands for **2 Way 4 Button Remote**.

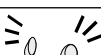


GLO color LCD

The remote-pager comes with GLO 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 GLO LCD indicating what your vehicle is currently doing.



LCD Icons

Icon	Explanation
	Indicates if Timer Mode is on or off.
	Indicates if Turbo Start Mode is on or off.
	Indicates if Passive Arming Mode is on or off.
	Displays remaining battery life.
	Indicates that your remote-pager is transmitting signals to the controller unit.
	Indicates if you are in Valet Mode.
	Display if your car is lock or unlock
	Indicates that the Shock Sensor has been triggered.
	Displays if your Trunk is open.
	Indicates if RPS is on or off.
	Indicates that someone is paging you from your vehicle.
	Displays if your vehicle has auto-started properly or ignition on.
	Displays if your door is open.
	Indicates that your car siren is turned on or off when you lock or unlock the vehicle.
	Indicates if Vibrator is on or off.
	Indicates that Shock sensor is turned on or off.
	Displays if your Hood is open.
	1. Time Clock. 2. Remainder of the engine running time.
	Indicates if your car parking lights are flashing.

Remote-Pager Button Functions

	Button	PressedFor	Function
1	I , I -	1/2 sec	Alarm Mode - on/off, RPS - on/off, Siren Off, Starter Kill (Anti-Grind) - on/off
2	II	1/2 sec	AUX 1
3	III	1/2 sec	AUX 2
4	IV	1/2 sec	Query Function
5	II -	2 sec	Auto-start Function – on/off
6	III -	2 sec	Trunk Release
7	IV -	2 sec	Panic, Press I to shut off Siren.
8	(I + II)	1/2 sec	Siren Chirps – on/off
9	(I + III)	1/2 sec	Valet Mode – on/off
10	(II + III)	1/2 sec	Passive Arming – on/off
11	(II + IV)	1/2 sec	Timer Start Mode – on/off
12	(III + IV)	1/2 sec	Turbo Mode - on/off
13	(I + III) -	2 sec	Shock Sensor – on/off
14	(I + II) -	2 sec	Programming Menu 1 - Installer Only
15	(I + IV) -	2 sec	Programming Menu 2 - Installer Only

Note : " — " Represents pressing the button for 2 seconds.

" () " Represents simultaneously pressing the buttons.

" () - " Represents simultaneously pressing the buttons for 2 seconds.

More Button Functions

(1) Time Setting

	Button	PressedFor	Function
STEP 1	(II+III)–	2 sec	<i>Prog</i> Tones will sound for confirmation
STEP 2	(I)	1/2 sec	Time setting is on. The numbers will flash, and tones will sound.
STEP 3	(I)	1/2 sec	Change hour.
	(II)	1/2 sec	Change minutes.
STEP 4	(II+III)–	2 sec	Time setting is off. Tones will sound.

(2) RPS & Vibration mode on or off

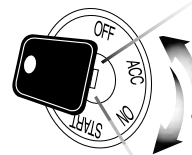
	Button	PressedFor	Function
STEP 1	(II+III)–	2 sec	<i>Prog</i> Tones will sound for confirmation
STEP 2	(III)	1/2 sec	 ON/OFF RPS on or off, tones will sound for confirmation.
	(IV)	1/2 sec	 ON/OFF Vibration mode on or off, tones will sound for confirmation.

Note : Step 2 must be completed within 15 seconds. If not, start over at step 1.

Remote–Pager Learn Routine

The Young Shin Electronics, Inc. system will allow up to three remotes to be programmed to one vehicle. Please perform the following procedure to add or reprogram additional remotes.

Step1 : Activate Valet/Programming mode by manually turning the ignition on and off five times **(between Acc and On)**



with the key within a 7 second period.
The parking light will flash once with successful completion of this step.

Step2 : Within a 7 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. You can continue programming additional remotes. The parking lights will flash two times when the programming mode has expired.

Alarm Mode

You can arm or disarm alarm mode by pressing Button **I** for a 1/2 second.

Press Buttons **(I+II)** for a 1/2second 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 or alarm trigger) 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 the alarm is armed, the starter kill function (an optional feature provided by your installer) is activated. This feature disengages the starter mechanism on your vehicle and prevents it from starting, even with a key.

Note : If you lose your remote after you have armed the vehicle, use your key to open the door. The siren will go off. Turn the ignition on then off, 5 times with your key to shut down the alarm and put the system into valet mode. You can cancel the valet mode with a remote later on.
See : **Valet mode**, on page 10.

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 in 30 seconds after the CompuStar alarm mode is armed. When the dual shock sensor is engaged, the remote-pager will be alerted by the following triggers:

- ▶ Light impact to your vehicle will activate the **first stage** of the shock sensor and the car siren will chirp 4 times in addition to the parking lights flashing 4 times. The remote-pager unit will be notified audibly and the hammer icon will flash on the LCD
- ▶ Heavy impact to your vehicle will activate the **second stage** of the shock sensor and the car siren will sound 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 flash on the LCD.
Press Button **I** for a 1/2 second to turn off the alarm if it has been triggered by the second stage of the shock sensor.

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. For manual transmission vehicles, please use reservation mode.

Press button **II** for 2 seconds in order to turn off an auto-started car.

The engine will run 15 or 25 minutes (25 or 45 min for diesel) depending on preset options at the time of installation and then shut off.

- ▶ **00:00** shows the amount of run-time left in the remote start mode.

Anti-Grind

The anti-grind circuit (an optional feature provided by your installer) prevents you from engaging the starter on a remote-started vehicle.

Diagnosing problems with Auto-Start

If there is a problem in auto-starting your vehicle, the Young Shin Electronics, Inc. system will do one of two things; if it fails for any of the reasons listed in the table below, it will flash the parking lights three times then flash the error number. Otherwise, it will attempt to start the vehicle three times. If, after three times, the vehicle will not start or stay running, the Young Shin Electronics, Inc. system will shut down. In either case, please see your installer to resolve the situation.

Error Number (# of times 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)

Continuation Mode (Automatic transmission only)

While your vehicle is running with your key, 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 out the ignition.

Example: For a quick stop when you don't want to restart the vehicle.

Reservation Mode (manual transmission only)

In order to auto-start your manual transmission vehicle, you must first set the Young Shin Electronics, Inc 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 on **MANUAL TRANSMISSIONS ONLY** and **NOT FOR AUTOMATIC TRANSMISSIONS**.

Reservation Mode must be engaged each and every time you leave your manual transmission vehicle in order to auto-start it.

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 vehicle with people in the it.

Activating Reservation Mode (Manual Transmission only)

- Step1** : After arriving at your destination, and BEFORE TURNING YOUR ENGINE OFF, place the transmission in the Neutral position.
- Step2** : Activate the parking brake.
- Step3** : Remove your foot from the foot brake.
- Step4** : Remove the key from the ignition, and the engine will remain running.
- Step5** : 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 Young Shin Electronics, Inc. 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! When the vehicle shuts off after reservation mode, the Young Shin Electronics, Inc system will lock/arm the vehicle. Take care to not lock your keys inside.

Important! If you try to auto-start the vehicle when reservation mode has not been set, the auto-start feature will not work.

When you press the auto-start button, the remote will beep three times. The car parking lights will flash three times, pause, then flash seven times.

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.

Trunk Release

Press Button **III** for 2 seconds in order to unlock and release your trunk.

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 you to visually monitor the status of your car by looking at the remote-pager GLO LCD icons. Press button **IV** for a 1/2 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/horn will activate and the parking lights will flash. In order to disengage Panic Mode, press button **I** for a 1/2 second. Then, press button **I** for a 1/2 second to unlock/disarm your vehicle.

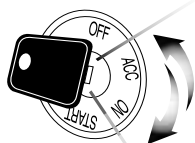
If **Anti-Jacking** option has been programmed (ask your dealer if you would like to have this option) and the Ignition-Kill has been installed, the Panic Mode works as Anti-Jacking if the key is in the ignition. If Anti-Jacking mode is activated while key is in the ignition,

a)The siren will go off for 1.5 minutes, and b) Ignition-Kill will be activated after the first 30 seconds. This is to give a 30 second warning to the hijacker, then to disconnect the ignition to stop the vehicle.

Valet Mode

While the vehicle is in valet mode, only the keyless entry function will be available. Valet Mode is very useful when loaning your vehicle or having it serviced.

In order to enter Valet mode, press Buttons **(I+III)** simultaneously for a 1/2 second. In order to manually enter Valet Mode, insert your key into the ignition and turn the ignition on, then off, **(between ACC and ON)** five times within 10 seconds.



You can exit Valet Mode only by pressing Buttons **(I+III)** simultaneously for a 1/2 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 cancelled automatically after 24 hours or once you start your car with either the key or remote-pager. 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

The Young Shin Electronics, Inc. 2WAMR system has several shut down safety features. The following actions will shut down the engine or prevent the car from auto-starting : Opening the hood, pressing the brake, or if Valet Mode is turned on.

RPS (Remote Paging System)

The optional RPS is a feature that allows an individual to page you by simply tapping on the front windshield of the vehicle. RPS is automatically turned on upon activating alarm mode (pressing button I for a 1/2 second) on the Young Shin Electronics, Inc. 2WAMR .

The RPS module can be activated by tapping a key on the glass, opposite of the sensor, 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 GLO LCD indicating that someone is paging you from your vehicle.

Press Button **I, II, III** or **IV** for a 1/2 second to deactivate the RPS visual and audible paging alerts.

OPTIONAL PROGRAMMABLE FEATURES

These additional programmable features can be programmed to the Young Shin Electronics, Inc. system by your authorized Young Shin Electronics, Inc. dealer.

Ignition Lock

Automatic Transmission Vehicles:

This programmable option will automatically lock the vehicle doors once the key is in the ignition and the brake pedal is pressed. The doors will unlock as soon as the key is removed from the ignition.

Manual Transmission vehicle:

This programmable option will automatically lock the vehicle doors once the key is in the ignition and the brake pedal is pressed. The doors will automatically unlock when the emergency brake is set while the vehicle is running with the key.

Passive Arming

You can turn this function on or off by pressing buttons **(II+ III)** for a 1/2 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 Young Shin Electronics, Inc 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.

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 1/2 second. In this mode, if the emergency brake has been set, the engine will continue to run after the key has been taken out of the ignition. It will run until two minutes after the emergency brake has been set.

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.

This option is ideal for turbo-charged vehicles because it allows the turbo too slowly cool after operation.

OPTIONAL INSTALLATION FEATURES

The Young Shin Electronics, Inc 2WAMR remote-pager has additional features and expansion possibilities that may require additional parts and labor.

Cold Start Mode

If the optional temperature sensor has been installed, Timer Start Mode becomes Cold Start Mode. In this mode, your car will automatically start 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 1/2 second.

Optional Auxiliary 1 & Auxiliary 2

The auxiliary output system is an optional feature that can be tailored for your vehicle by your local authorized Young Shin Electronics, Inc 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.

Limited Lifetime Consumer Warranty

Young Shin Electronics, 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 prepaid postal to Young Shin Electronics, Inc., 3415 S. 116th St Seattle, WA 98168, USA within the warranty period, and if the product is defective, Young Shin Electronics, 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.

Young Shin Electronics, 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 Young Shin Electronics, Inc.

NOT WITHSTANDING 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 Young Shin Electronics, Inc, within 10 days after the purchase to the address listed on the registration card.