User's Guide

**Two-Way FM Remote** 

M902F





www.magicar.com



**USER'S GUIDE** 

RF2WN

By Youngshin Electronics Co., Ltd.



# Congratulations

Congratulation for your becoming a member of Magicar family.

Thank you for choosing Magicar M902F, a state-of-the-art Two Way alarm renot start system for your vehicle.

We, Youngshin Electronics Co., Itd., are constantly performing research and development in order to make your vehicle more safe and confortable. Security and confort, that's what Youngshin Electronics Co., Itd. is all about.

When you insert a battery in the remote, the LCD will show each icon one by one with music play.

#### IMPORTANT INFORMATION

1. In order to auto-start your manual transmission car, you must first set the Magicar 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.

To not set the reservation mode while someone is inside of the vehicle. It will be dargenous to use the system if the door pin switch is not in good working order.

#### 2. NEUTRAL SAFETY SWITCH

Your vehicle should starts only in Racked or in Natural position with the key. If the vehicle starts in any other position, it is very dargerous to choose the automatic transmission mode. Youngshin shall not be responsible for any changes or consequences resulting from failure to choose the manual transmission mode for these vehicles.

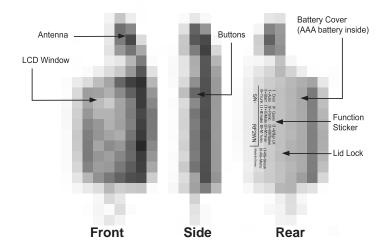
- The serial number of the menote is required for the warranty.Please make sure your remote has the serial number.
- 4. You may be changed for repair if the damage is resulted from the Act of God, abuse or improper care of the product.
  The Youngshin's warranty does not cover any of the optional accessories, such as, external relays or door actuators.
- This product is intended only for Auto Security.Any other use is not allowed.
- \* We are not responsible for any injuries or damages resulting from your failure to comply with the above requirements.

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### Description of Remote Appearance

The model name, RFZWN, stands for 2 Way FM 4 Button Remote.



### MAGICAR COLOR LCD

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

Auto

#### LCD Icons

Ican	Expl <i>a</i> nation	
	Indicates if Recording & Play on Voice Module (Optional) are on croff.	
Auto	Indicates if the Ato Lock/ What mode is an ar off. ( Icon fleshes for larger range.)	
Timer	Indicates if Timer Mode is an ar off.	
Turbo	Indicates if Turbo Start Mode is on or off.	
Passive	Indicates if Pessive Arming Mode is an ar off.	
3M	Indicates that the Snok Sensor has been triggered.	
	Indicates that Shock sensor is turned on or off.	
ZZzz	Indicates if you are in Valet Mode.	
7, =	Indicates if your car parking lights are flashing.	
	Indicates that your car sinen is turned on or off when you look or unlook the vehicle.	
1	Indicates if RE is on croff.	
	Indicates that someone is paging you from your vehicle.	
Tall	Indicates that your renote pager is transmitting signals to the controller unit.	
<b>((</b>	Indicates if Vibrator is on or off.	
	Display if your car is look or unlook	
	Displays remaining battery life.	

Ian	Explanation			
1. Time Clock. 2. Inside Temperature of the vehicle 3. Remainder of the engine running time. 4. Remainder of the battery power.				
	Indicates if Ignition look/tilook is on or off.			
	Displays if your door is open.			
<b>)</b>	Displays if your vehicle has auto-started properly or ignition on.			
	Displays if your trurk is open.			

# Remote-Pager Button Functions

	Buttan	PressedFor	Function
1	I	1/2 sec	AlamMode - on/off, RS - on/off, Sinen Off, Starter Kill (Arti-Grind) - on/off
2	I -	2 sec	Auto Arming turned On. (Auto icon will be turned on).
3	I -	2 sec	Longer range Auto Arming On. (Auto icon Flashes.)
4	I -	2 sec	Auto Arming turned Off.
5	(III+IV)-	2 <b>sec</b>	Recording & Play on Voice Module (Optional)
6	II	1/2 sec	AUX 1
7	Ш	1/2 sec	AUX 2
8	IV	1/2 sec	Query Function

	Button	PressedFor	Function	
9	ΙΙ -	2 sec	Auto-start Function - on/of f	
10	III -	2 sec	Trurk Release	
11	IV-	2 sec	Panic, Press I to shut of f Sinen.	
12	(I + II)	1/2 sec	Siren Chirps for Lock/Uhlock-on/of f	
13	(I+II)	1/2 sec	Vallet Mode - on/of f	
14	(I+IV)	1/2 sec	Ignition look - on/of f	
15	(II+III)	1/2 sec	Passive Arming - on/of f	
16	(II+IV)	1/2 sec	Timer Start Mode - on/off	
17	(Ⅲ+IV)	1/2 sec	Turbo Mode - an/aff	
18	- (II+II)	2 <b>sec</b>	Shock Sensor - on/off	
19	(I+II) -	2 sec	Programing Menu 1 - Installer Only	
20	(I+ <b>I</b> V) -	2 sec	Programing Menu 2 - Installer Only	



### Note:

I button Proceeds in (1) → (3) → (1) ..... reportedly.

# At (2), Auto the icon will flash.

#### 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	Pr o9 Beep sound for confirmation	
SIEP 2	(1)	1/2 sec	Time setting is on. The numbers flash. Beep Sound.	
STEP 3	(I)	1/2 sec	Change time.	
	(II)	1/2 sec	Change minutes.	
STEP 4	(II+III) -	2 sec	Time setting is off. Beep sound. You may continue for motion aption.	

### (2) RPS & Vibrator on or off select between 'Grid' From temp.

	Buttan	PressedFor	Function
STEP 1	(II+III) -	2 sec	<b>Pro9</b> Beep sound for confirmation
	(Ⅲ)	1/2 sec	ON/OFF RES an ar off, beep sound for confirmation.
STEP 2		1/2 sec	((1))) ON/OFF Vibrator on or off, beep sound for confirmation.
	(I+IV)	1/2 sec	Select between 'F and 'C

**Note:** The step 2 has to be completed within 15 seconds.

# [I]Door Lock



If the doors are closed and unlooked, you can look and arm the vehicle by pressing Button [I] for a  $\frac{1}{2}$  second. The sinen chirps and the parking lights flash once to confirm the look and arming.

# [I]Door Unlock



If the doors are closed and looked, you can unlook and disamn the vehicle by pressing Button [I] for a  $\frac{1}{2}$  second. The sinen chirps and the parking lights flash twice to confirm the unlook and disamn. If you hear four chirps and 4 flash of the parking lights, that means the alarm went off while the vehicle was armed.

# [I-] Auto Arming



You can turn this function on or off by pressing Button [I] for 2 seconds. When set to Auto aming, your security system will arm automatically after all the car doors are closed, your remote is away from the vehicle by more than 50 to 100 ft and 15 seconds have passed since the last Auto Disarm. Your system will disarm automatically if your remote comes within 50 to 100 ft radius from the vehicle.

Setting Auto Arming Function.

Each time you press  $\, I \,$  button for 2 seconds :

First time: Auto icon is turned on.

Second time: Auto icon flashes - for larger range.

Third time: Ato ican is turned off.

#### [II-] Auto-Start Function

Press Button [II] for 2 seconds to auto-start an automatic transmission engine. Upon receipt of the signal from the remote, the system will confirm the receipt by a chirp. Amorual key in the ignition is required to drive the car.

Insert your key in the ignition and turn the key to On position within 20 second after you open the door of vehicle. The engine will shut off in 20 seconds after opening the door if you do not insert the key and turn to On position.

Do not coark the starter while the vehicle is numing.

The engine will non 15/25/45/5 minutes and then shut off.

If your mente-pager has a problem starting the vehicle, Magicar will try 2 additional times. If the engine does not start after the third attempt, please call your authorized Magicar dealer.

shows the remainder of the engine running time.

# Reservation Mode (manual transmission only)

It is the safety system to avoid Auto-Starting when the transmission gear is not in the natural position.

#### Automatic Reservation

After arriving at your destination, when remove your key from the ignition, the chars will be unlocked and the engine will remain running for 2minutes. While the engine is running, if you open and close the chars, the engine will be off and then the Reservation Mode will be completed.

However, some of vehicles will not be set the Reservation Mode as per the above procedure. In this case, please set it following the Manual Reservation.

#### Manual Reservation

If you press Button II for 2 seconds before removing the key from the ignition, the Siren will drip one time and the car parking lights flash one time. After that, the engine will be running for 2 minutes, even you remove the key from the ignition. After the procedure, when the driver exits the vehicle and close the door, the engine will be shut off, and then the Reservation Mode will be completed.



#### Note:

In Noise Sensing mode, it is happened that some largs on fascial board of vehicles are turned on for 3 seconds. However, it is a regular Reservation process.



#### Warning:

Rr Manal transmission vehicles, the main cortroller has to be set "Manal transmission option" when Magicar systems are installed. Younghin Electronics Co., Itd. is not responsible or liable for any damages that were occurred when you set "Auto transmission option" to Manal transmission vehicles. Please carefully drack it out again and confirm it from your installer.

If the engine is started on the status of not "Ranking" or "Neutral" positions in Automatic transmission vehicles, you should dreck out the Reservation Mode same as the Manual transmission vehicles.

### Canceling Reservation Mode

- 1 After completion of Reservation Mode, if the chars or trunk char are still be opened, the Reservation Mode will be cancelled.
- 2 If the key is pulled out from the ignition, the engine will be still rurning and Magicar system will be in the procedure of Reservation Mode. During that procedure, if the button II is pressed more than 2 seconds, the engine will be stagped and the Reservation Mode will be cancelled at the same time.
- 3. The Reservation Mode will be cancelled, if you enter the Valet Mode.



#### Waming:

The reservation mode for Auto starting must be canceled, that is because the vehicle may be able to move down on inclination.

#### Diagnosing Problems with Auto-Start

Error Number (# of times parking lights flæh)	Enror Resson
1	Engine On
2	Key On
3	Door Open
4	Trunk Open
5	Reservation Off (Manual Transmission Only)

#### [III-] Trunk Release

Press Button [III] for 2 seconds in order to unlook and release your trunk door. The installation of this mode is available only if your vehicle has a trunk actuator. Note that the trunk release function will not only release the trunk but will unlook all the doors as well.

If the truck sensing wine has been corrected, the reservation will be carcelled when you open the truck in the manual transmission mode.

# [IV] Query Function

Query Function allows the owner to visually monitor the status of your car by looking at the remote-pager MagiGIO ICD icons.

Press Button [IV] for a  $\frac{1}{2}$  second to activate the Query Function. You will receive one of the following response if you are within the transmitting distance:

	LCD	Siren in the vehicle
Armed, engine not nunning	Beep, Beep, Beep	drirp
Disamed, engine not running	Beep, Beep	dip, dip
Armed, engine running	Beep/Beep, Beep/Beep, Beep/Beep	diirp, diirp, diirp
Disamed, engine ruming	Beep/Beep , Beep/Beep	dirp, dirp, dirp, dirp

Query tells you the inside temperature of the vehicle.

It tells you the temperature with either 'F or 'C'

Query tells you the battery voltage also.

Press IV for Query. Press are more time within 6 seconds, it will tell you the battery 's voltage.

(EX) For example, if the battery voltage is 12.6 V, it will show 12.5

### [IV-] 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 sinen will activate and the parking lights will flash for 90 seconds. Panic mode will stop the remote start. In order to disengage Panic Mode, press Button [I] for a  $\frac{1}{2}$  second. Then, press Button [I] for a  $\frac{1}{2}$  second to unlock/disammyour vehicle.

### [I+II] Siren Chirp Delete for Arm/Disarm ON /OFF

With this programming, the speaker icon in the ICD will disappear and sinen dring is deleted.



#### Note:

Sizen will up off if door sensor, shock sensor, or period mode is activated.

### [I+III] Valet Mode

The only feature operating in valet mode is the keyless entry function and optional auxiliary functions. Valet Mode is very useful when weshing your vehicle or having it serviced.

### [(I+III)-] Dual Stage Shock Sensor

Press Buttons (I+III) for 2 seconds to activate or deactivate the del stage shock sensor. The del stage shock sensor will activate in 30 seconds after the Magicar alarm mode is armed. When the del shock sensor is engaged, the newterpager security alerts will be triappered 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 of times

Heavy impact to your vehicle will activate the **second stage shock sensor** and the car siren will chirp for 10 seconds and the parking lights will flash for 10 seconds. The remote-pager will be notified audibly and a hammer icon will blink in the LCD. Press Button I for a 1/2 second to turn off the second stage shock sensor sirens and flashing lights.

### [I+IV] Ignition Lock

This programmable option enables your vehicle to automatically look the doors in 30 seconds after the vehicle has been started with a key while all the doors are closed.

In addition, the vehicle will automatically unlock the doors upon pulling the key out from the ignition.

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#### [II+III] Passive Arming/Active Arming

- 1 You can turn this function on or off by pressing Buttons [II+III] for a ½ second. Passive Icon will be highlighted in the ICD. When set to passive aming, your security system will arm automatically 30 seconds after all the car doors are closed. Passive locking means the door will look when the system is passively armed. In the default factory setting, the system is armed and locked actively, which means the system will only arm/look when the remote-pager is utilized.
- 2 If you select both Auto Arming and Passive Arming, Auto Arming takes priority over Passive Arming.
- 3 Under the Manual mode, the Passive arming will look the doors upon reservation. Under the Turbo mode, the Passive arming will look the doors upon closing the doors after the ignition has been turned off.

#### [II+IV] Timer(24 Hours) Reservation

You may reserve the renote starting time by 1) setting up the starting time and 2) turning on Timer icon.

#### **Procedure**

- 1. Time icon should be turned off.
- 2. Set up the starting time. Make sure the current time is correct.
- 3. Turn on Time icon.

	Button	PressedFor	Function
SIEP 1	(II+III) -	2 sec	Pro9 Beep sound for confirmation.
SIEP 2	(II)	1/2 sec	Time setting is on. The numbers flash. Beep sound.
STEP 3	(I)	1/2 sec	Change time.
51111 5	(II)	1/2 sec	Change minutes.
STEP 4	(     +         -	2 sec	Set up completed. Beep sound.

[**III**+**IV**] Turbo Mode



You can turn this feature on and off by pressing Buttons [III+IV] for a  $\frac{1}{2}$  second. Under this mode, engine continues running or 2 minutes after key has been taken out from the ignition. This mode is useful with Turbo vehicles that need to be cooled down after long drive.

### [(III+IV)-] Recording & Play on Voice Module (Optional)

The icon located on the left of Atro is On when pressed III & IV bittors simultaneously for 2 sec and converted to Recording & Play mode of Voice Module. And it can be recorded & played when pressed II and III for 0.5 sec. Bit, in case of not pressing within 60 sec, the Recording & Play mode is off automatically.

#### [II] Aux1

Ax 1 will go at if the bitton II is pressed for 1/2 second.

There are four different types of outputs (Consult your installer) that are used to operate a surroof, a mirror or any other auto accessories.

#### [III] Aux2

Ax 2 will go at if the button III is pressed for 1/2 second. Likewise, it has 4 different types of outputs.



#### Note:

- 1. The duration of the Aux output should be vary depending on the equipments that these outputs operate.
- 2. These Aux outputs are 250 mA outputs. Therefore, please use relays if you carrect these outputs to equipment that uses more than 250 mA. Otherwise, you will denote these output circuitries.
- 3 .Trese Ax functions will require extra installation fees. Please consult your installer.

### Real Time Remote Paging Functions

Types: R.P.S.(Remote Reging System), Theft and Shock Sensing Whenever one of these is triggered, it is reported to the remote with beeps and flashing icons in the ICD. In case when the owner has not been alerted, the remote continues making beeping sounds until turned off.

Theft – one beep every 2 seconds; Shock Sensing – one beep every 4 seconds; R.P.S – one beep every 6 seconds.

These finations will be availed while the vehicle is amed.

### R.P.S (Remote Paging System)



R.P.S is a feature that allows an individual to page the owner of a varicle by simply tapping the R.P.S sensor on the front windhield of the car.

This vibration is detected and your renote-pager will ring four times and a telephone icon will appear on the ICD indicating that someone is paging you from your varicle.

#### Keyless Entry with R.P.S. sensor

With the new patented RPS system, you can open the coor without a key or a newte. **Programming 4 number pass words (1111-9999)** 

Step 1: Yeyon

Step 2: Door Open

Step 3: Knock 10 times. Each time the green IFD will flash once. It should be less than 1.5 seconds between the knocks.

Step 4: The red IND will flash rapidly. If it doesn't, go to the step 1.

Step 5: Efter your 4 number pass words by knocking - each number 1-9.

To enter the first number, knock the same number of times. The interval between the knocks should be less than 1.5 seconds. Then, wait to confirm by containing the number of flash of the red LED. If the red LED flashes a wrong number, go back to the step 1. If the red LED confirms a connect number, contains entering the other 3 numbers.

Step 6: Signal Lights will flash once to confirm the programming.

### Keyless Entry with R.P.S sensor

- Step 1: Knock 10 times Each time the green LED will flash once.

  It should be less than 1.5 seconds between the knocks.
- Step 2: The red LED will flash rapidly.
- Step 3: Efter the pass words. To enter the first number, knock the same number of times. The interval between the knocks should be less than 1.5 seconds. Then, wait to confirm by counting the number of flash of the red IED. If the red IED confirms a correct number, continue entering the other 3 numbers. If a wrong number is entered, the RES will send out signals to the remote. Therefore, you go back to the step 1.

Step 4: The door will unlock and remote will show unlock with two beeps.



#### Note:

You may try up to 5 times within 30 minutes. After that, the keyless function will not be available for the next 24 hours or until you wholk the door with the next e-whichever comes first.



### Paging for Shock Sensing

When the shock sensor is triggered by an impact in the vehicle, it is reported to the Renote that will beep and the hanner icon shows up for 7seconds. Press Button [I] for a ½ second to turn off the shock sensor sinens and flashing lights.

### Paging for Theft



When the vehicle is armed, unauthorized car door opening will activate the car sinen the remote will be notified audibly and the door icon will appear in the ICD. The sinen will op off even under the mode.

Press Button [I] for a ½ second to turn off the car sinen and flashing lights. Repeat this step (press Button [I] for a ½ second) again to disammalarm mode.

# Low Car Battery Alert



When the driver exits the vehicle with the parking lights on, it is reported to the remote upon arming (active, passive or auto). The remote will make beeping sounds, Beep, Beep.

#### Starter-Kill Function

In alammode, the starter kill function is activated. This feature disargages the starter mechanism on your car, which prevents you from starting your car even with a manual key when your vehicle's alammode is activated.

# Reporting Door Opening



The vehicle will indicate the door opening by flashing the signal lights. (This is the installer option)

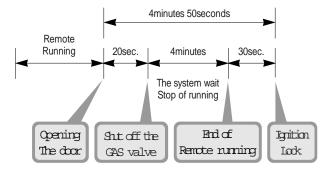
### Propane gas powered vehicles

In the case of propose gas powered vehicles, there is a risk of left over gas (anywhere between the gas tank and the engine cylinder) freezing during winter. Therefore, it needs to burn the left over gas completely before the engine is turned off.

- 1 How to burn the left over ges completely.
  - 1-1 Atometic Transmission Whicle Shits off the Gas Valve switch before turn off the ignition so that the left over gas in the system burst completely. Then, turn off the ignition and take the key out.
  - 1-2 Manual transmission vehicle or turbo mode of the automatic transmission vehicle. In the case of the manual transmission vehicle or turbo mode of the automatic transmission vehicle, turn off the ignition first, shit off gas valve switch and then get out of the vehicle and close the door. The engine will shit off upon the left over gas has been completely burnt.
- **2** In the case of the manual transmission vehicle or turbo mode of the automatic transmission vehicle, if you do not shut off the gas valve switch there will be left over gas in the system after the engine is shut off 4 minutes numing after door closing. And this left gas will be refrigerated at winter, so you have to shut off gas valve switch like above 1-2.
- 3 Driving in short distance after renote-start for a gas powered vehice!

  After the renote-start, if you drive the vehicle for less than 4 minutes and 20 seconds, the engine will continue running for 4 minutes and 20 seconds, that is because of the gas option, that shuts off the gas valve in 20 seconds and shuts off the ignition in 4 minutes after the door opening after renote start.

So in the case of Manual Transmission Véhicle, the system can not beentened to reservation mode in this 4minutes and 20 seconds period.



#### Remote-Pager Learn Routine

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

Step1: Activate Valet/Programming mode by manually turning the ignitionn 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.



Step2: Within a 10 second period after cycling the ignition for the 5<sup>th</sup> 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.

# Adjustable by Magicar Users

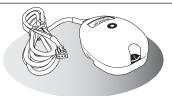
### 1 Adjusting the sensitivity of the shock sensor

It is advised that you may want to know where the shock sensor is located so that you can adjust the sensitivity of the volume depending on your need.



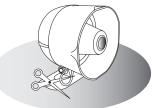
#### Waming:

Please be careful not to turn the volume beyond its limit. The volume can be damaged.



### 2 Adjusting the volume of the siren

The volume of the sizen can be reduced by atting off the jump wire attached to the sizen.



# 3 Adjusting the volume of the R.P.S Sensor

