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USER'S GUIDE

Two-Way FM Remote

M101AS

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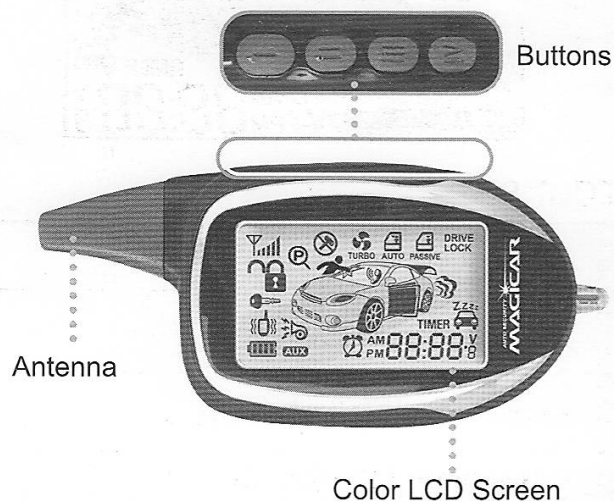
By Youngshin Electronics Co., Ltd.

YOUNGSHIN
Electronics Co., Ltd.

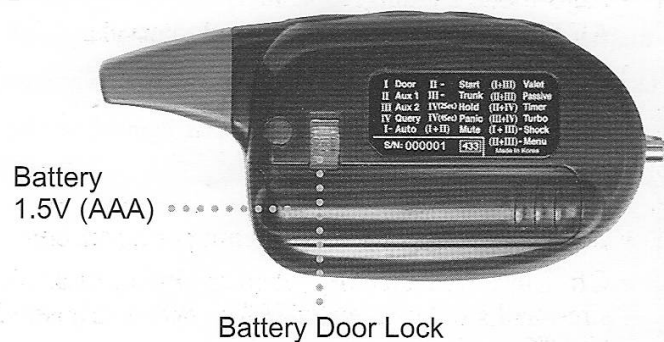
Before using your Magicar system, please take some time to familiarize yourself with it.

◎ Remote Description

【Front】



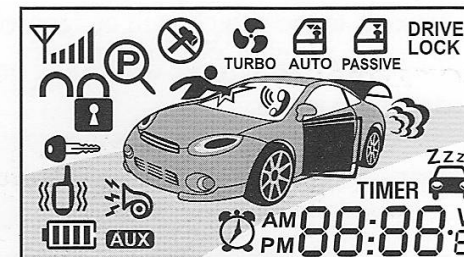
【Back】



◎ Technical Specification

Application Frequency	433.92Mhz	Weight	33.5g (without Battery)
Frequency Stability	± 2ppm/year	Transmitting Output	10 mW
Exterior	86 x 39 x 20 (mm)	Operating Temperature	-15°C ~ +50°C

◎ MAGICAR LCD Screen



◎ LCD ICONS

TIMER	• Timer Function On
	• Turbo Function On
	• Passive Function On
	• Auto-mode 1 (Range: XX feet) AUTO Icon on. • Auto-mode 2 (Range: XX feet) AUTO Icon flashes at 1.5 second intervals. • Auto-mode 3 (Range: XX feet) AUTO Icon flashes at 0.5 second intervals. • Auto-mode OFF AUTO Icon is not displayed.
	• On - Siren will chirp when arming or disarming. • Off - Siren will not chirp when arming or disarming. The siren will still be activated if the alarm is triggered or PANIC mode is activated.
	• On - Remote will vibrate (when applicable), and give audible confirmation. • Off - Remote will only vibrate (when applicable), no audible confirmations will be given.

Note

Each icon will be displayed while the function it corresponds to is operating. The screen may be hard to see in direct sunlight.

	- On - Impacts to the vehicle will be ignored by the alarm. - Off - Impacts to the vehicle, depending on the severity, will trigger the alarm.
	Alarm Clock On
	Car finder function(Distance between remote and vehicle is indicated by number and buzzer sound.)
DRIVE LOCK	Ignition Control Door Lock.
	Doors locked/unlocked.
AUX	AUX mode on
	Door open.
	Remote Start Availability Indication
	Trunk open.
	This icon displays the signal strength while transmitting or receiving.
	Display of remaining remote control battery life.
	Impact to the vehicle is detected.
	Indicates that someone is using the RPS to page you from your vehicle.
	Car Call function using the RPS is on.

	Valet mode is on, only the door lock function will be available.
	Indicates that the vehicle is currently remote-started.
	Used while displaying temperatures and other features.
	Parking lights are flashing.
V	Voltage display.
88:88	Displays current time, remote start runtime, remaining turbo mode time inside temperature of the vehicle, battery voltage of the vehicle, start reservation time, failure of signal transfer.



Note

- ▶ Each icon will be displayed while the function it corresponds to is operating.
- ▶ The screen may be hard to see in direct sunlight.

● Functions of Buttons

Buttons		Function	Description
1	I	0.5sec	ARM/DISARM
		2sec	EXTENSION
2	II	0.5sec	AUX #1
		2sec	START/STOP
3	III	0.5sec	AUX #2
		2sec	TRUNK
		Tap Twice	BACK LIGHT ON
4	IV	0.5sec	QUERY
			Car Check function
			- 1st tap: Vehicle temperature.
			- 2nd tap: Voltage of vehicle battery.
			- 3rd tap: Voltage of remote battery.
			In valet mode, it shows valet
5	[I+II]	2sec	BUTTON HOLD
			Button hold on/off
		4sec	PANIC
			Panic mode(for 90sec)
		Tap Twice	PARKING TIMER
			Parking timer on/off
6	[I+III]	0.5sec	MUTE
		2sec	Siren chirp on/off
7	[I+IV]	0.5sec	PROGRAM #1
		2sec	Main controller option #1
8	[I+III]	0.5sec	VALET
		2sec	Valet mode on/off
9	[I+III]	0.5sec	SHOCK ON/OFF
		2sec	Shock sensor on/off
10	[I+III]	0.5sec	DRIVE LOCK
		2sec	Drive lock(Ignition door lock) on/off
11	[II+III]	0.5sec	PROGRAM #2
		2sec	Main controller option #2
12	[II+III]	0.5sec	PASSIVE ON/OFF
		2sec	Passive arming on/off
13	[II+IV]	0.5sec	MENU
		2sec	Entering into Remote menu
14	[II+IV]	0.5sec	TIMER ON/OFF
		2sec	Timer starting reservation on/off
15	[III+IV]	0.5sec	AUTO ON/OFF
		2sec	Auto door on/off
16	[III+IV]	0.5sec	TURBO ON/OFF
		2sec	Turbo function on/off
17	[III+IV]	0.5sec	AUX ON/OFF
		2sec	AUX mode on/off

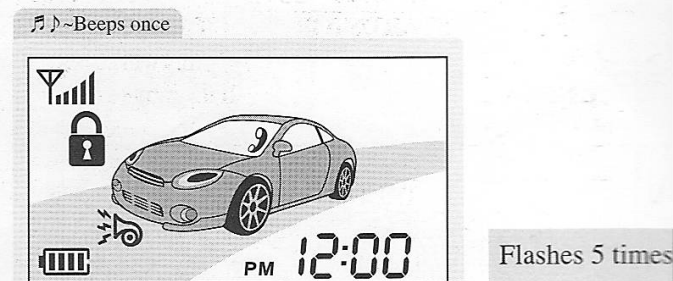


- Note**
- ▶ 0.5 sec: press shortly (between 0.5 and 1.0 sec.)
 - ▶ — : press until a car responds (longer than 2 sec.)
 - ▶ +: Press two buttons at the same time.
 - ▶ Performing the same button functions again will toggle the various modes between on and off.

● Button Functions

Locking/Arming the vehicle and alarm. ①

If the system is unlocked/disarmed, pressing button I for a half second will lock the doors and arm the alarm. This function will still operate even while the vehicle is remote started. The remote and vehicle will beep once.



1. Arming

- Red LED of Car Call sensor flashes, and the doors, shock sensor and Car Call are monitored.

2. Door Trigger

- If the alarm is armed and a door is opened, the alarm will be triggered, playing the siren and flashing the parking lights for 30 seconds. (Even if the Siren is turned off.)

3. Shock Sensor

- If the shock sensor detects a heavy impact to the vehicle after 30 seconds of alarm being armed, the alarm will be triggered, playing the siren and flashing the parking lights for 9 seconds. The remote will be notified of the impact and will beep rapidly while displaying the impact icon; a person hitting the windshield. The siren will not play at this time if the Siren Chirp has been turned off.
- In the case of a light impact, the siren will chirp four times, and the remote will display the impact icon.

4. RPS (Remote Paging Sensor)

- If the RPS sensor is triggered while the alarm is armed, the remote will be paged and will display the RPS icon.



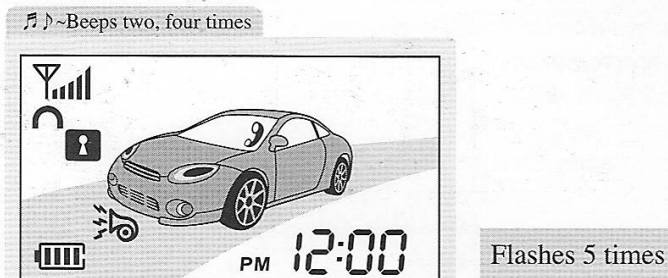
Caution!

- Siren may go off if you arm the vehicle while the hazard lights are on.

● Button Functions

Unlocking/Disarming the vehicle and alarm.

If the system is locked/armed, pressing button **I** for a half second will unlock the doors and disarm the alarm. This function will still operate even while the vehicle is remote started. The remote and vehicle will chirp twice.

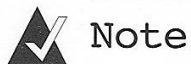


1. Disarming

- The door(s) will be unlocked the RPS LED will stop flashing, and the following details will be indicated according to the number of chirps and parking light flashes:
 >> Twice: No trouble while the system was armed.
 >> Four times: Alarm was triggered by strong impact or a opened door.

2. Auto Rearm

- If a door has not been opened within 30 sec. of disarming the alarm, the doors will be relocked and the alarm will arm. This feature is meant to protect against an accidental disarm of the system. To prevent the rearm process, simply open a door within 30 sec. of disarming the alarm. The system will not arm again until given the command through the remote.



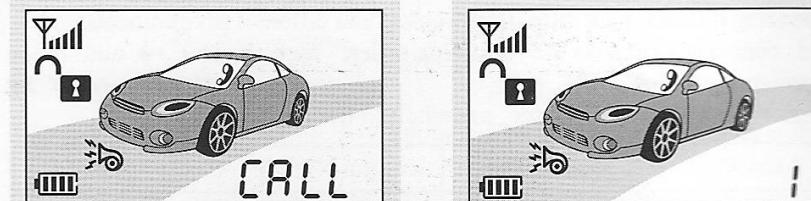
Note

- ▶ In the alarm has been triggered, press button **I**. The siren will stop, but the alarm will still be armed. The system will not respond for the first few seconds after the alarm was triggered, this is because it is still trying to send a signal out to the remote during that time.
- ▶ Press button **I** again to disarm the alarm.

● Button Functions

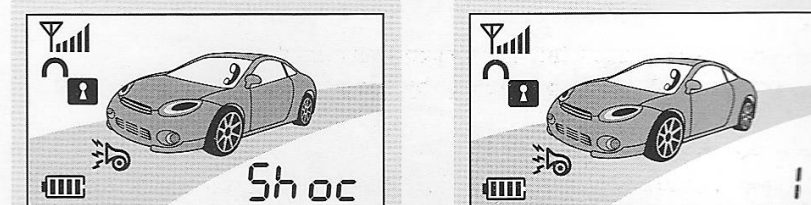
3. RPS Car Call Display

- When disarming, if the RPS was triggered while the system was armed, the numbers of times it was triggered will be displayed.



4. Function of Shock Alarm

- When disarming, if the Shock Sensor was triggered while the system was armed, the numbers of times it was triggered will be displayed.



◎ Button Functions

AUTO Mode (ON/OFF) —

Pressing button **I** for 2 sec. will turn on Auto mode. With Auto mode, the vehicle will unlock/disarm when the remote is getting closer, and lock/arm when the remote is far away.

1. Automatic door lock/unlock function starts.

- Operating distance may differ from vehicle and different environments.

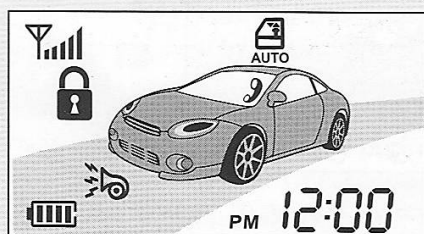
This function works on the following order: "auto mode 1" → "auto mode 2" → "auto mode 3" → "OFF"

Press button **I** again for 2 sec. to switch to the next mode.

Auto Mode 1	Short distance	Icon on.
Auto Mode 2	Long distance	Icon flashes in 1.5 second intervals.
Auto Mode 3	Long distance	Icon flashes in 0.5 second intervals.
OFF	No operation	Icon off.

- Auto mode 3 suspends AUTO mode when it senses consecutively arming/disarming signals.
- The suspension above is cancelled by pressing button **I** once.

♪♪~Beeps once



Flashes 5 times

2. When the door is locked

- ♪♪~dodoreremimifafamimireredodo

3. When the door is unlocked

- ♪♪~beep beep beep beep



Note

- Due to varying vehicles and environments, there may be a small area of distance in which the system thinks the remote is far enough away to lock, and, close enough to unlock. If your remote is within this area, the system will repeatedly arm and disarm. To avoid this situation, try placing your remote farther away from the vehicle.
- Auto mode will drain your remote battery faster than normal.
- Weather and temperature differences will affect the operation distance of Auto mode.

◎ Button Functions

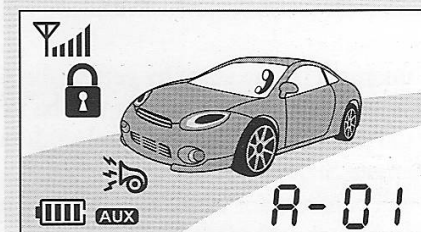
AUX Mode Entry (ON/OFF) [+] —

As you enter AUX mode, the **AUX** icon will be displayed. If an auxiliary channel triggered within 60 sec., Aux mode will be cancelled. An auxiliary channel can be programmed for a pulsed, latched, or timed latch output. You can use them to open windows, turn on lights, activate heated seats, and other features. Please follow instructions.

1. AUX 1 (optional)

- After entering AUX mode, AUX 1 output will be triggered, if button **II** is pressed for 0.5 sec.
- While operating AUX 1, the remote control will indicate that AUX 1 is operating.

♪♪~Beeps once

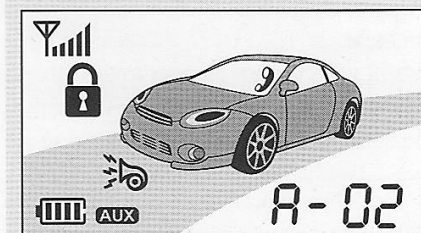


Flashes 5 times

2. AUX 2 (optional)

- After entering AUX mode, AUX 2 output will be triggered, if button **III** is pressed for 0.5 sec.
- While operating AUX 2, the remote control will indicate that AUX 2 is operating.

♪♪~Beeps once



Flashes 5 times



Note

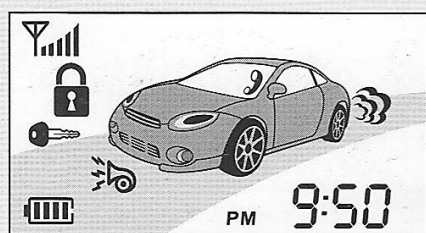
- Options that utilize auxiliary outputs generally cost extra for installation.

● Button Functions

Remote Start (ON/OFF)

The vehicle will start and run for a preset time if button **II** is pressed for 2 sec. If the vehicle is a diesel, the system will pause for a moment after turning on the ignition to allow time to glow plug warm-up. (If needed.)

 ~Beeps three times



The remaining time is 9min. and 50 sec.

- Vehicle will be armed (if unarmed before start) by getting the signal from remote.
- If the vehicle fails to start, a second and third attempt will be made.
- Remote Start will run for the preset time (10, 25, 3, 5min.). If button **II** is pressed again for 2 sec. Remote Start will shut off.
- The remote start running will continue for 20sec after a door opens. The car key needs to be in On position within the 20 seconds.
- After the vehicle has been remote started, the remaining run-time will be displayed on the screen.
- If the timer goes 1 minute, the remote will warn your with (beep) that the vehicle is about to shut off.



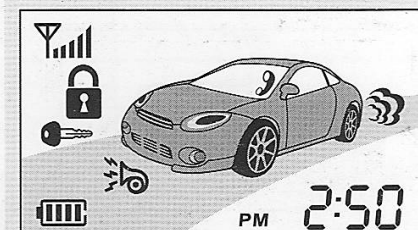
Caution!

- Remote starting should be avoided while people are inside the vehicle.
- You will need to turn the key to the ON position in order to drive the vehicle. Turning the key past the ON position could cause damage to the vehicle starter.

1. Extension of Remote Start Timer

- During the running time, if you press button **I** for 2 sec. "Start-Again" will scroll across the screen once and the timer will be reset to the preset time.

 ~Beeps three times after resetting the runtime.

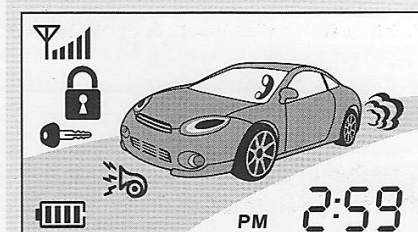


The remaining runtime will be reset.

2. Remote Start Display

- If the remote start confirmation is not received by the remote for different reason pressing any button within range of the vehicle will update the remote and show remaining run time.

 ~Beeps three times after resetting the runtime.

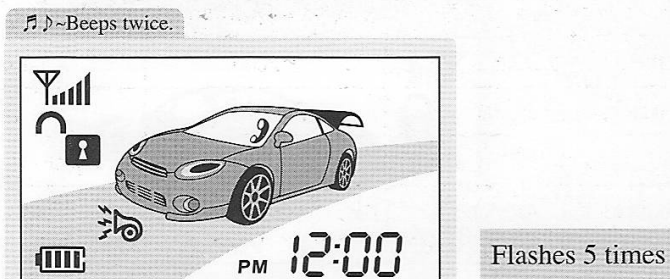


Flashes 5 times

● Button Functions

Trunk Release

The trunk will be opened/unlocked, if a button **III** is pressed for more than 2 sec. If the alarm is on, it will disarm and unlock the doors as well.



- If the vehicle has not a trunk actuator, it may be convenient to put the system in Valet mode if you are going to be in the trunk doing work for an extended period of time.
- If the vehicle trunk release is a cable type and not electric, extra installation steps will be required to make the remote trunk release functional.
- On vehicles with a trunk actuator, if the trunk is opened more than 20 sec. while the vehicle is remote started, the remote start will be cancelled and the vehicle will shut off.

Note

- ▶ If trunk sensor is installed in a manual transmission vehicle, opening trunk will cancel the remote start reservation.
- ▶ Installation of a trunk open sensor or connection of the sensor wire will generally cost extra as it is an optional feature.

● Button Functions

Query Function

If button **IV** is pressed for 0.5 sec., the remote and vehicle will respond with beeps/chirps and parking light flashes to report the status of the vehicle.

Division	Car Inspection	Remote Control Operation
Armed, Remote Start OFF	1~Peep	1~Beep Beep Beep
Disarmed, Remote Start OFF	1~Peep Peep	1~Beep Beep
Armed, Remote Start ON	1~Peep Peep Peep	1~Beep Beep Beep Beep Beep
Disarmed, Remote Start ON	1~Peep Peep Peep Peep	1~Beep Beep Beep Beep

1. When armed:

- The icons of door lock, shock and Car Call flash.

2. When disarmed:

- The icon of unlock flashes. Door will be opened.

3. Car's Indoor Temperature Indication

- Internal temperature of vehicle will be indicated with °C.
(However, the temperature indicated is the temperature of where a sensor is located and if temperature sensor doesn't exist, FAIL will be indicated)
- The temperature sensor can be located in a specific location per a customer's request by using the extended cable if needed. (Option)

4. Car's Battery Voltage Check

- In checking the conditions of a car, the battery voltage of a car can be checked with the numbers, if a **IV** button is pressed for 0.5 second, once.

5. Remote Control's Battery Check

- After checking the voltage of a car, the battery voltage of a remote control can be checked with the numbers, if a **IV** button is pressed for 0.5 second, once.

Changes of Menu

The menu will change from "indoor temperature check" → "battery voltage check" → "the remainder of a remote control battery check" in order, if a **IV** button is pressed.

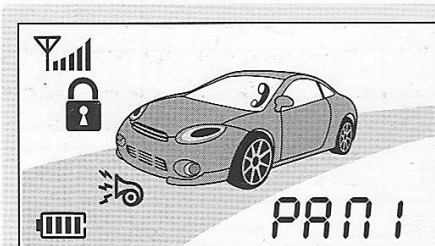
Note

- ▶ These functions should be operated within transmitting and receiving range of the vehicle.

● Button Functions

Panic Mode **IV** — four seconds

If button **IV** is held for more than 4 sec., Panic mode will be initiated. The doors will lock, the parking lights will flash and the siren will play for 1 min. and 30 sec. "PANIC" will scroll across the remote screen for 30 sec.



Flashes for 30 seconds.

- In operating self-emergency, remote control will be turned off, in the case of remote wakeup.
- In operating self-emergency, a siren will operate for 1 min 30sec, in the case of car silence.

Canceling Panic Mode

- To cancel Panic mode, press button **I** for 0.5 sec.



Note

- ▶ You can use this feature to draw attention to you and your vehicle if you are attacked or otherwise threatened.

Siren Chirp ON/OFF **I** + **II**

By pressing buttons **I** + **II** for 0.5 sec, at the same time, the siren chirps from the vehicle will be muted. To un-mute the siren chirps, press buttons **I** + **II** for 0.5 sec. again.

Exception

- The siren will still play in these situations:
- If the alarm is triggered by opening the trunk or a door.
The siren will still be silent if the alarm is trigger via the shock sensor.
- If Panic mode is activated.

● Button Functions

Valet Mode ON/OFF **II** + **III**

Activate Valet mode by pressing buttons **I** + **III** for 0.5 sec. at the same time. (Valet mode can also be activated with the ignition key as well, see page 36.) Valet mode will put the system to sleep and almost all functions will be disabled. Remote lock/unlock, code unlock, remote option programming, and the query function still operate.



Warning!

- When the system is in Valet mode, the alarm is not active, even when the doors are locked. Any starter or ignition kill systems that have been installed will be disabled as well.

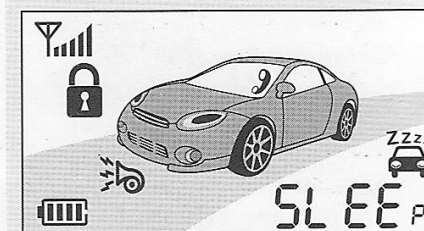
1. Valet Mode OFF

- Pressing buttons **I** + **III** for 0.5 sec. at the same time again will turn Valet mode OFF, which restores all functions to the remote.

2. Valet Mode Display

- The only functions available will be:
 1. Button **I** for 0.5 sec. (lock/unlock)
 2. Buttons **I** + **III** for 0.5 sec. (Valet OFF)
 3. Button **IV** for 0.5 sec. (Query Function)
 4. Button **III** double press. (EL Lamp ON)
 5. Buttons **II** + **III** for 2 sec. (Remote Set-Up)
- If any other functions are attempted, the remote will beep three times and "SL" will scroll across the screen to indicate that the system is in Valet mode.

Beeps three times.



Flashes 5 times



Warning!

- If you loan your vehicle to someone who is not familiar with this CompuStar system, you may want to use Valet mode to avoid any problems they might have by accidentally activating various features.

● Button Functions

Shock Sensor ON/OFF [II + III] —

- To turn off the shock sensor, press buttons **I + III** for 2 sec.
- The shock sensor is turned off if the [] icon is displayed on the LCD of the remote.
- This mode is useful if you will be parked in a loud or high traffic area such as an airport. Turning the shock sensor off will help prevent false alarms.

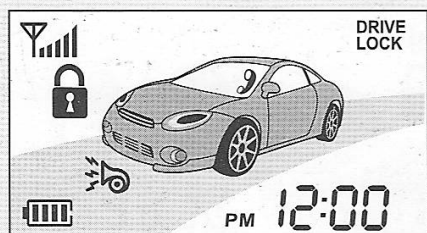
Drive Lock (Ignition control door lock) ON/OFF I + IV

Drive lock icon "[]" will be displayed on remote control, by pressing **I+IV** buttons for 0.5 sec at the same time, and the doors will be locked in 30 seconds after ignition is turned on.

1. Drive Lock OFF

- Drive lock will be OFF, and drive lock icon will be turned off, again by pressing **I+IV** buttons for 0.5 sec at the same time.
- Drive Lock function is not activated:
 - ◁ during remote start,
 - ◁ a door opens within 30 seconds after ignition is turned on,
 - ◁ a door is open when the vehicle is started with key.
- Doors will be unlocked when ignition is turned off. (See page 39 for the procedure in setting up or canceling this option.)

♪ ~Beeps once



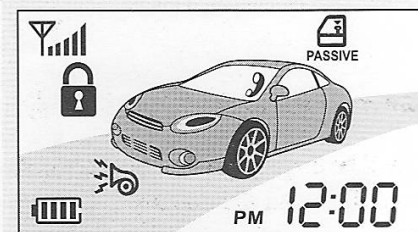
Flashes 5 times

● Button Functions

Passive Arming ON/OFF II + III

Passive Arming, which will lock/arm the vehicle if it is disarmed, after 30sec, turned ON by pressing buttons **II+III** at the same time, it operates under the following conditions.

♪ ~Beeps once



- While ignition is off, the door is open and
- When the alarm is d

Flashes 5 times

Instant Locking:

- After remote start reservation is complete in a manual transmission vehicle.
- In the case of turbo function ON, after the door is open and closed following removal of Key

1. Passive Arming OFF

- To turn off Passive Arming, press buttons **II+III** buttons at the same time for 2 sec. The siren will beep twice and the parking lights will flash.



Caution!

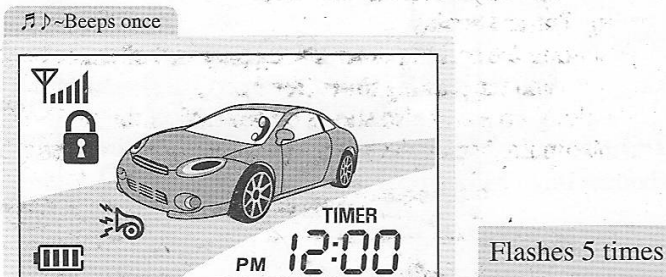
- If Passive Arming is ON, the doors will be locked automatically, the remote should be taken with you when you leave the vehicle so that it does not get locked inside.
- If you will be staying in the vehicle for an extended period of time without the engine running, you should turn Passive Arming off so that it does not become a nuisance.

● Button Functions

Timer Start Reservation ON/OFF [II + IV]

Timer start reservation is activated by pressing buttons **II + IV** at the same time for 0.5 sec if timer has been set up. Once activated, the vehicle will start by itself at preset time in every 24 hours.

(See page 38-Timer Start Set-Up)



※ However, for a manual transmission vehicle, the remote start reservation is required for this function to work.

1. Timer Start Reservation

- To turn off Timer Start, press buttons **II + IV** buttons at the same time for 0.5 sec. The siren will beep twice and the parking lights will flash.



Note

- The, timer start reservation and turbo mode functions are not turned from the factory, (see page 39), these options must be turned on before use.

● Button Functions

Parking Timer ON/OFF [II + IV] —

1. Parking Timer

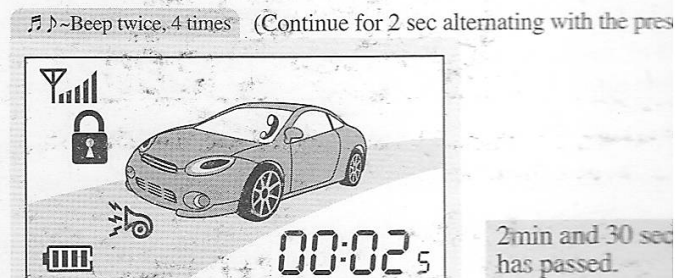
- The Parking Timer can be used to monitor the time passed while driving or be parked.

2. Parking Timer Set-up

- By pressing buttons **II + IV** for more than 3sec at the same time, the parking timer will be set up and the remote will beep.

3. Parking Timer Display

- After starting the parking timer, the display will alternate between the present (for 1 sec.) and the parking timer (for 2 sec.)
- The parking time will also shows on tenth of a minute "0~9(one tenth of 60 s)
- The maximum display time of the parking timer is 99 hours 59 min.



4. Parking Timer Release

- Parking timer will be turned off with a chirp from the remote, if buttons **II + I** pressed for more than 2 sec, while the parking timer is on.

Turbo Function ON/OFF [III + IV]

Turbo function can be turned on by pressing buttons **III + IV** for 0.5 sec. With mode active, the vehicle will stay running after the key has been removed from ignition

- In the case that Key is removed and the door is locked, wakeup will maintain turbo function set-up time, however, a car whose auto alarming function is ON be immediately locked.
- In the case that turbo operating time is set-up for 1 min, wakeup will maintain while, if Key is removed, but the door unlocked/locked doesn't work.
- To stop the vehicle from running via the Turbo Timer, press button **II** for more than 2 sec. (In the case of a manual transmission vehicle, remote start reservation will be maintained.)

● Button Functions

- In the case the door is unlocked in the middle of turbo operating, engine will shut off in 20 seconds assuming that owner will be ready to drive the vehicle.

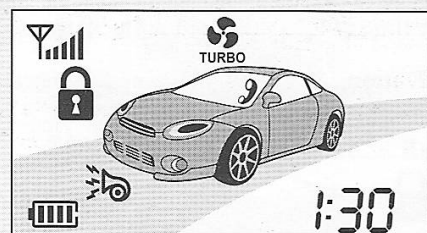
1. Turbo Function OFF

- Turbo Timer will be turned off with a chirp from the remote, if buttons **III + IV** are pressed for 0.5 sec.
- If you pressing button **III + IV** while engine is running by Turbo Timer, both engine and Turbo Mode will be turned off

2. Check Function of Turbo Time

- The remaining time is displayed, and turbo icon will flash

♪ ~Beep twice, 4 times (The remaining time of turbo will be displayed for 1 minute and 1/2 sec)

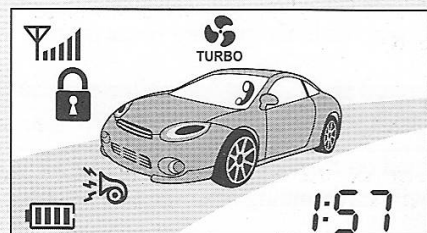


Flashes 5 times

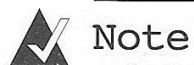
3. Turbo Time Extension

- Pressing button **I** for more than 2 sec. while the turbo timer is operating will extend the run time, as "Turbo Again" is scrolled across the display.

♪ ~Beep twice, 4 times (1:57 will be displayed when 2 minute Turbo Timer is activated)



Flashes 5 times



Note

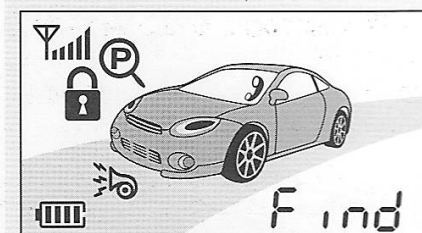
- A turbo timer is designed for vehicles with turbo chargers. After hard use, the turbo housing will be very hot and allowing the vehicle to idle for a few minutes will cycle more oil through the turbo while it cools.
 - Turbo Function works differently with LPG option vehicles.
- Warning! Since engine is running without key with this Turbo Mode, the driver should make sure that the vehicle's gear is in neutral.

● Button Functions

Car Finder Mode **IV** Double Tap

Use this function if it is not easy to find your vehicle in a crowded place such as a parking lot, etc.

♪ ~Beep twice, 4 times



Flashes 5 times

1. Car Finder Mode Activation

- Tap button **IV** twice to activate this mode. The remote will sound a beep. In the case of communication failure, "FAIL" will be displayed and Car Finder mode will be activated.

2. Car Finder Display

- The distance between cars shall be indicated with numbers (25 to 1) and beep sounds (1 to 5).
- >>> The farthest distance will be indicated by 25 and 1 beep and the nearest will be indicated by 1 and 5 beeps.

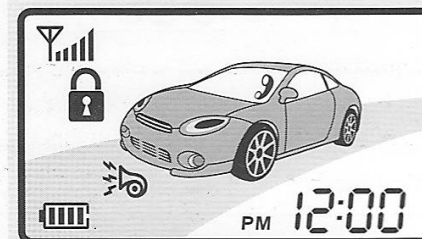
3. Car Finder Mode Cancellation

- Car Finder mode will be cancelled, and "Car-Find End" will be scrolled across the display, if a button is pressed or a signal is sensed from a car. (i.e.: alarm trigger, car call)

EL Lamp **III** Double Tap

If it is hard to see the screen because of low light conditions, tap button **III** twice. EL Lamp will be turned on.

♪ ~Beep



EL Lamp turned on

Flashes 5 times

● Button Functions

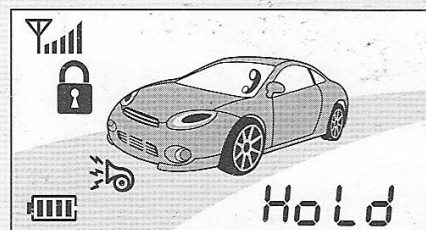
Button Hold Function — 2 sec

This function prevents accidental button presses while carrying your remote.

1. Button Hold Set-up

- To activate the Button Hold function, press button **IV** for 2 sec. The remote will beep and display "Hold" on the screen.

 ~Beep once



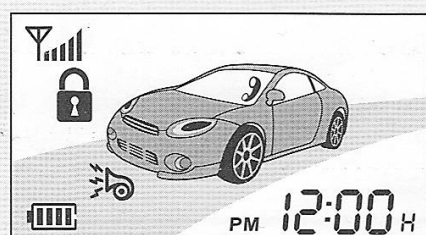
Flashes 5 times

2. Button Hold Cancellation

- To cancel the Button Hold function, press button **IV** for 2 sec. again while the Button Hold function is active. The remote will beep twice, and the normal functions will return to the remote.

3. Button hold Display

- Normally, Button Hold operation is indicated on the right side of the screen as an "H"



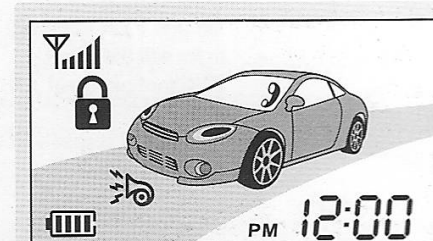
Note

- The Button Hold function will be cancelled if you activate Panic mode by pressing button **IV** for 4 sec.

● Option Functions

Warning of vehicle battery drain.

If the vehicle is locked (armed) with a taillight on, the parking lights will flash and siren will chirp 7 times



One flashing light

Trunk Open Sensor

With this sensor installed and the alarm armed, the alarm will be triggered if the trunk is opened. The siren will be activated and the parking lights will flash.

Wakeup Interception Function

With this option installed: If the door is forced open, while the vehicle is armed, the vehicle will not start with either the remote or key.

Preheating Sensor

For remote starting diesel vehicles, the system monitors Wait to start lights to the engine.



Note

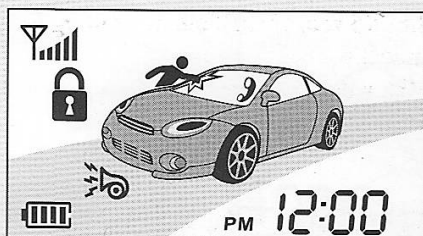
- Options will generally cost extra for installation and parts.

◎ Set-up and Other Functions

Shock Sensor Trigger

If the alarm is armed and the shock sensor is triggered by an impact to the vehicle, the following sequence will occur:

♪♪~Beeps for 9 sec



■ **CAR** : The siren will activate and the parking lights will flash for 9 sec.

■ **Remote control** : Vibration/theft indication sound.

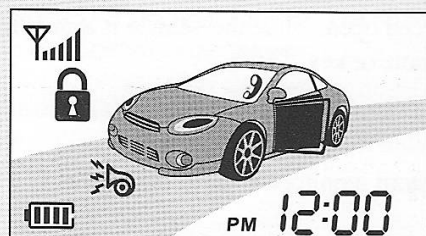
Remote will beep at 4 second intervals until a button is pressed.

Flashes 5 times

Theft Function (Door, trunk, or hood trigger.)

If the alarm is armed and the door, trunk, or hood is opened, the following sequence will occur:

♪♪~Beeps for 30 sec



■ **CAR** : The siren will activate and the parking lights will flash for 9 sec.

■ **Remote control** : Vibration/theft indication sound.

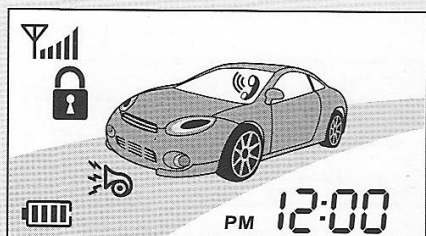
Remote will beep at 4 second intervals until a button is pressed.

Flashes 5 times

Car Owner Calling Function

If the alarm is armed and the RPS function is turned on, when a person knocks on the RPS sensor, the remote will be paged and will ring like a telephone and vibrate.

♪♪~Beeps



■ **CAR** : The vehicle LED changes from red to green.

■ **Remote control** : Vibration/telephone ring. (4 times)

Remote will beep at 6 second intervals until a button is pressed.

Flashes 5 times

◎ Set-up and Other Functions

Code Unlock Function

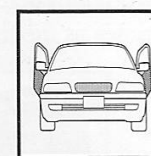
Enter the four numbers (1111~9999) as a password, by using a RPS sensor, and the correct pass code will unlock the doors, without either remote control or Key. ("0" should be avoided for a password.)

- Each knock in a set needs to be done within 1.5 sec. of each other. Waiting longer than 1.5 sec will switch to the next set of knocks.
 - Green LED should be checked at the first knock.
- Conditions for Entering the Password the First Time

Conditions for Entering the Password the First Time



Doors
Unlocked



Door
Open



Key On
Engine



Note

- ▶ If you enter the wrong password more than 5 times within 30 min, this function will not be available for 24 hours. (The remote will still operate during this 24 hour period.)
- ▶ If you give up in the middle of entering the password, it will not count toward the wrong entry count of 5.

Knocking (For door open or entering the password.)

The password should be entered under the, "car conditions for entering a password" (see page 28).

① Knock on the RPS sensor 10 times

The Green LED will flash at the first knock.

② Red LED flashes fast

The next knock shall be done within 1.5 sec.

③ Knock as many times as the first password number, and then check to see if the red LED flashes. (Knock as many times as the first password number)

After 1.5 sec

Green LED will flash at the first knock.



Red LED flashes as many times as the number of the first set of knocks.

After the first set

The second, third, and fourth password numbers should be entered the same as above.

(As the password has four numbers.)

④ After entering the final set

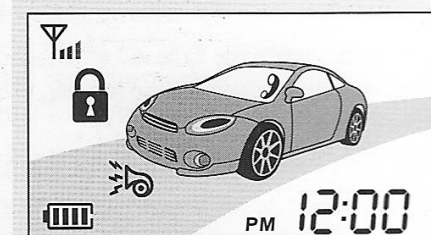
The parking lights will flash, signaling that the password has been entered.

Unlocking the doors using the RPS

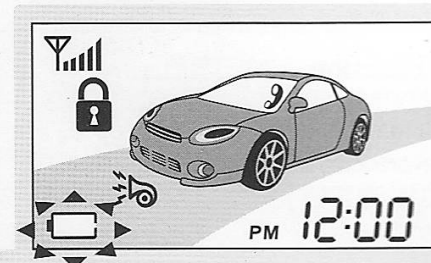
To unlock the doors using the RPS, the code must be entered correctly, matching the code you specified initially. The remote will be paged and will show that the doors have been unlocked.

◎ Set-up and Other Functions**In Range Display****• In Range Display Method**

If the remote and vehicle are within operating range of each other, the signal strength will be displayed beside the antenna icon on the display.

**Battery Save Function**

When the battery is almost dead and ready to be replaced, the battery icon will flash and Battery Save Mode will operate.

**• Battery Save Mode Operation**

The remote will only receive confirmation signals for button I operations. The other buttons will still function, but they will not receive confirmation signals back from the vehicle.

The transmitting power will be reduced for a close range operation only.

● Set-up and Other Functions

Time information backup

1. It saves time information (current time, start-up reservation time and alarm time) in the status where power has not been supplied to remote (at a time of replacing batteries). If the power is supplied again, users do not have to re-adjust the time information.

2. Remote default is set in the status when the time information backup is released. In order to set up the time information backup for the remote, users need to execute the menu of the remote once or more.

After users execute the menu ((2+3)-), the time information backup is automatically executed.

3. Cautions at a time of replacement of batteries

In order to use the time information backup function more effectively, press button No.4 of the remote before and at a time of the replacement of the batteries (communication with the main not needed at that time) to back up more accurate time information.

Door Open Indicating Function

The parking lights will flash to indicate that the door is open.
(See page 39 - for the set-up procedure for the main options)

● Set-up and Other Functions

GAS(LPG) Option Set-up

※ Burning off gas residue in the system:

• Auto Transmission Car

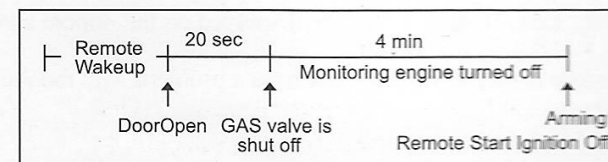
- While engine is running, shut off the gas valve and wait. Then turn off the key, the gas residue was burnt off.
- Activating Turbo Mode will be a convenient way of burning off the gas residue since engine will continue running like a manual transmission vehicle until the residue is burnt off. See below.

• Manual Transmission Vehicle

Turn off the key first then shut off the gas valve. Engine will continue running until the gas residue is burnt off. If you open and close the door while engine is still running, the remote start reservation is also completed.

• Remote Start

After remote start is completed, the ignition wire will continue to be powered for more minutes (or 4 minute and 20 seconds if a door opens while engine is running) by the system to make sure the gas residue is burnt out.



Note

- ▶ In Turbo Mode, if Key is turned OFF but the GAS valve is not shut off, the engine will be turned off in 4 minutes without burning off the gas residue.
- ▶ In Turbo Mode, the remote will show the engine running to burn off the residue.

● Set-up and Other Functions

Remote Start Reservation Mode for Manual Transmission Vehicles

Reservation Mode prevents a manual transmission vehicle from starting in gear if the system has been installed properly.

Automatic(Passive) Reservation

When key is turned off, the doors will unlock and the engine will remain running up to 2 minutes. Within the 2 minutes, if a door opens then closes, the engine will shut off completing the remote start reservation. "[]" icon shall be displayed to confirm the reservation.

Active Reservation

If button II is pressed for more than 2 sec., before the key turned off and removed from the ignition, the parking lights will flash and the siren will chirp one time. The engine will stay running for 2 min. even if the key is taken out of the ignition. Before the 2 min. timer expires, you must get out of the vehicle and shut the door. Once the door closes the engine will shut off and Reservation mode has now been set. The remote start availability icon, "[]" will be displayed on the remote screen.

※ This procedure is for the vehicles that have a problem with the Automatic Reservation procedure.



Note

- ▶ In the process of Reservation mode set up, the display lights in the instrument cluster may be ON for 3 sec after the engine has been turned off. (This is a normal process.)
- ▶ In the process of Reservation mode set up, when the key is removed, the ABS light may be ON/OFF, this is a normal operation.



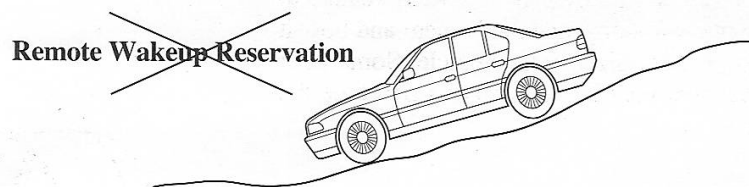
Warning!

- When this product is installed in a manual transmission vehicle it must be set to Manual Transmission Mode. Our company is not responsible for any accident resulting from selecting wrong mode (Automatic Transmission Mode) for a Manual Transmission vehicle. Customer must confirm this with his/her installer and check and inspect by himself/herself.
- Automatic transmission vehicles must be checked in the same manner, ensuring that the vehicle will not start with the key when the transmission is not in either "P" or "N".

● Set-up and Other Functions

Reservation Mode Cancellation in Manual Transmission Vehicles

- After Reservation Mode has been set up, it will be cancelled if either the trunk or a door is opened.
- After driving and removing Key, the engine will stay running for 2 minutes. If button **II** is pressed for more than 2 sec. during this time, Reservation Mode will be cancelled.
- If Valet Mode is ON, Reservation Mode will be cancelled.



Warning!

- On the slopes, a car may move. You should not set up the reservation mode.

Examination of Remote Wakeup Failure

If there is a problem remote starting your vehicle, you will hear three chirps from the remote to indicate that there is a problem. If you go to the vehicle and try again, an error code will be displayed through the parking lights. The lights will flash three times, pause, and then flash a number of times equivalent to the error code number. Example for error code 4, the parking lights will flash three times, pause, and then flash four times.

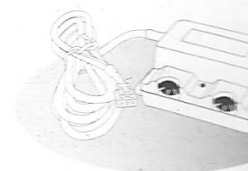
Number of Flashes	Error Explanation
Once	Engine is already running.
Twice	Ignition (Key) is on.
3 times	Door open.
4 times	Trunk open.
5 times	Reservation Mode not set. (Manual transmission vehicles only.)

● Set-up and Other Functions

Setting the Shock Sensor Sensitivity

Controlling Shock Sensor Sensitivity

To adjust the shock sensor sensitivity, locate the shock sensor and adjust the dial on the sensor. The higher the number on the dial, the higher the sensitivity of the sensor.

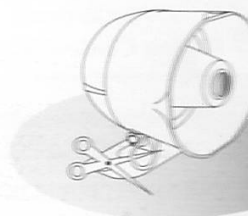


◁The higher the number, the more sensitive

※ Shock Sensor sensitivity can vary from vehicle to vehicle for many reasons including where and how it is mounted, and the size of the vehicle. Some after install adjustment may be necessary to fine tune the sensor.

Control of Siren Sound

In order to increase the volume of the siren, locate the siren, (usually under the hood in the engine bay) and cut the loop of black wire at the base of the siren. Be careful not to cut the thicker black ground wire of the siren.



Entering Valet Mode Using a Key

If the remote has been lost or damaged, you can enter Valet Mode using the ignition key of the vehicle. The following steps must be completed within a limited amount of time, so please read through the instructions before beginning.

1. Turn the key to the "Ignition On" position. When the ignition is on, the lights in the instrument cluster will turn on. In most vehicles this position is two "clicks" forward from the "Off" position.
2. Move the key back one "click" to the "Accessory On" position. The lights in the instrument cluster should turn off.
3. Steps 1 and 2 must be repeated for a total of three times within three seconds. Once this has been done, the alarm will turn off and valet mode will be active.

- Valet Mode can only be turned off through the remote (Press buttons **I + III** for 0.5 sec. at the same time, the siren will chirp and the parking lights will flash twice.)



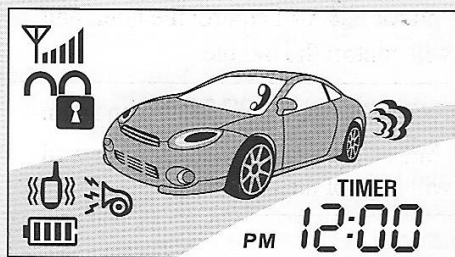
(Key Box)

Menu Options

Set-up of Remote Options [II + III] -

→ Entering the Main Menu

MENU LCD



The remote can be programmed after pressing buttons II + III for more than 2 sec. at the same time.

→ Button Control Method

Function(Menu)	Button			
	I	II	III	IV
Set-up of present time	hour control	minute control	▲ back to the previous menu	▼ back to the next menu
Set-up of timer start reservation time	hour control	minute control		
Set-up of alarm clock time	hour control	minute control		
Set-up /cancellation of alarm clock function	change(basic : cancellation)			
Set-up/cancellation RPS	change(basic : Activation)			
Set-up/cancellation of vibration mode	change(basic : cancellation)			
Change of the temperature unit	change (basic : "°F")	The change of °F or °C		



Note

- ▶ The icon corresponding to the option you are changing will flash on the screen.

→ Menu End Method

- To exit the remote programming menu, press buttons II + III for more than 2 sec.
- The remote will automatically exit the programming menu if 15 sec. pass without a button being pressed.

Function	Button	Application Method
Set-up of Present time	Hour I Minute II	The "88:88" icon flashes. At this time, button I will control the hour, and button II will control the minute.
Set-up of Timer Start Reservation Time	Hour I Minute II	The "88:88" icon, "TIMER" and [9] flash At this time, button I will control the hour, and button II will control the minute.
Set-up of Alarm Clock Time	Hour I Minute II	The [9], "TIMER" and "88:88" icon flash. At this time, button I will control the hour, and button II will control the minute.
Set-up/cancellation of Alarm Clock Function	ON/OFF I	[9] icon flashes Clock display → "on" for alarm clock active, "o" for alarm clock disabled. Toggle this option on and off with button I. When the alarm clock activates at the specified time, to any button for 0.5 sec. to silence the remote.
Set-up/cancellation of Remote Paging Sensor	ON/OFF I	[9] icon flashes Clock display → "on" for alarm clock active, "o" for alarm clock disabled. Toggle this option on and off with button I. RPS Function ON/OFF In order for someone to use the RPS to page your remote, the system must be armed/locked and the RPS must be knocked on twice within 2 sec.
Set-up/cancellation of Vibration Mode	ON/OFF I	[9] icon flashes Clock display → "on" for alarm clock active, "o" for alarm clock disabled. Toggle this option on and off with button I. Vibration Function ON/OFF With the vibration function on, the remote will not make any sound unless the alarm is triggered. With vibration mode off, vibration will be felt during RPS page, or if alarm is triggered.
Fahrenheit Centigrade	Change I	The 'F'/'C' icon flashes. The change of the temperature unit with either 'F'/'C'.

● Menu Options

Set-up of Main Option [I + II] —

You can access Option Table 1 by pressing buttons **I + II** for more than 2 sec. at the same time.

→ Main Option Table

Option	Option Name	Icon that flashes while setting the option.	Option Settings			
1-01	Turbo Mode		Not Used OFF	Running for 2 min 2:00	Running for 1 min 1:00	
1-02	Turbo Mode	TIMER	Not Used OFF	Used ON		
1-03	Remote Start Run Time	 / 	10 min 10:00	25 min 25:00	3 min 3:00	5 min 5:00
1-04	Ignition control door Unlock	 / 	Unlock ON	Remain Lock OFF		
1-05	Reservation Method		Automatic (Passive) Reservation Auto	Reservation is not available when the door is open door	Active Reservation PASS	
1-06	Parking lights flash if door is open when arm	 / 	Not operating OFF	Operating ON		
1-07	Diesel Preheating Time	 / TIMER	3 sec 3.0	5 sec 5.0	8 sec 8.0	12 sec 12.0



Note

- ▶ The red colors are the factory defaults.
- ▶ When you reach an option number, the option will be displayed on the remote screen.

→ Button Functions Once You are in the Programming Menu

Button			
I	IV	III	IV
For 0.5 sec [change the option setting]	 for 2.5 sec [apply the changed options to the main]	 for 0.5 sec [move to the previous option]	 for 0.5 sec [move to the next option]

1. Option Approaching Method

- The word "Option" will be scrolled on remote screen and the remote will beep. buttons **I + II** are pressed for more than 2 sec. at the same time. The parking lights will flash and the siren will chirp once if you have successfully entered the programming menu.

2. Option Move Method

- To move through the option list, use button **III** to move up the list, and use button **IV** to move down the list. The option number and its corresponding icon will be displayed on the remote.

3. Option Set-up Change

- Use button **I** to change the setting of the current option. The current setting will be displayed on the screen.

4. Applying Options to the Main Controller

- After setting all of the options desired, press button **IV** for more than 2 sec. to apply the changes to the main controller. At this time, communication with the main controller is required. If the process is successful, the word "good" will be displayed on the screen.

5. Canceling the Option Programming Mode

- Pressing buttons **I + II** before applying the changes to the main controller will cause the remote to exit the option programming mode without saving any changes.

6. Option Set-up Failure

- If you are not in range of the vehicle when you try to transmit the option change to the main controller, the word "FAIL" will be displayed on the screen and the remote will exit the option programming mode.

Example: If the remote start runtime of option 1-03 is to be set up as 3 min;

- Press buttons **I + II** for more than 2 seconds. (The remote will beep, and scroll: "option set-up entry" across the screen.)
- Press button **IV** for 0.5 sec. (3 times) to select a remote start run time option. (Option 1-03.)
[( / ), flashing, "1-03" Will display for 1 sec. right after the selection of the option.]
- Press button **I** for 0.5 sec. to select the setting you wish to change to. (In this case, until "3:00" is displayed)
- Press button **IV** for more than 2 sec. to apply the option change to the main controller.
- "good" should be displayed on remote.
- ※ Following the above methods, several options can be set up at the same time. You do not need to apply the changes after each option change. You can change all of the options than apply them all to the main controller at once.