















Quick Reference	
Door lock/status check/illumination	Press button 
Door unlock	Press button 
Remote engine start/shut down	Press button 
Emergency panic alarm activation/ turn off	Press button  for 4 sec.
Vibration mode	Press <b>PROG</b> button for 3 sec.
Garage door open(optional??)	Press <b>PROG</b> <input type="checkbox"/> button 
CH2	Press <b>PROG</b> <input type="checkbox"/> button 
Indoor temperature check (Not available in US Model)	Press <b>PROG</b> <input type="checkbox"/> button 
Proximity door lock function On/Off	Press <b>SET</b> button for 3 sec.
Vehicle finding	Press <b>SET</b> <input type="checkbox"/> button 
Programmed engine start function ON/OFF	Press <b>SET</b> <input type="checkbox"/> button 
Trunk release	Press <b>SET</b> <input type="checkbox"/> button 
Personal alarm On/Off	Press <b>SET</b> <input type="checkbox"/> <b>MODE</b>
Temporary hold of System function (Valet)	Press <b>SET</b> <input type="checkbox"/> <b>PROG</b> for 3 sec.
Mute Chirp(One time Only)	Press <b>MODE</b> <input type="checkbox"/> button  ,  or 
Button lock of Remote Control	Press <b>MODE</b> <input type="checkbox"/> button  for 2 sec.
Clock time correction	Press <b>MODE</b> button for 3 sec. <input type="checkbox"/> Press <b>PROG</b> one time <input type="checkbox"/> <b>SET</b> <input type="checkbox"/> Press <b>SET</b> again for Hour <input type="checkbox"/> <b>PROG</b> <input type="checkbox"/> Press <b>SET</b> for Minute, and <b>MODE</b>
Engine start time setup	Press <b>MODE</b> button for 3 sec. <input type="checkbox"/> Press <b>PROG</b> two times <input type="checkbox"/> <b>SET</b> <input type="checkbox"/> Press <b>SET</b> again for Hour <input type="checkbox"/> <b>PROG</b> <input type="checkbox"/> Press <b>SET</b> for Minute, and <b>MODE</b>
Personal alarm time setup	Press <b>MODE</b> button for 3 sec. <input type="checkbox"/> Press <b>PROG</b> three times <input type="checkbox"/> <b>SET</b> <input type="checkbox"/> Press <b>SET</b> again for Hour <input type="checkbox"/> <b>PROG</b> <input type="checkbox"/> Press <b>SET</b> for Minute, and <b>MODE</b>
System Programming 1 (In disarming status)	Press <b>MODE</b> button for 3 sec. <input type="checkbox"/> Press <b>MODE</b> one time again <input type="checkbox"/> Press <b>PROG</b> <input type="checkbox"/> times <input type="checkbox"/> Press <b>SET</b> button, and <b>MODE</b>
System Programming 2 (In disarming status)	Press <b>MODE</b> button for 3 sec. <input type="checkbox"/> Press <b>MODE</b> two times again <input type="checkbox"/> Press <b>PROG</b> <input type="checkbox"/> times <input type="checkbox"/> Press <b>SET</b> button, and <b>MODE</b>

## Vehicle Alarm & Engine Starter System

**Vehicle Alarm & Immobilizer**  
**Remote & Programmable Engine Start**  
**Lifestyle Enhancing Convenience features**  
**LCD screen illumination**  
**Vibration of Remote Control**

.....  
**INTRODUCTION**

Congratulation on your purchase of the *BOOMERANG* Vehicle Alarm & Starter System!  
The *BOOMERANG* System features state-of-the-art technology for maximum safety and satisfaction.

*BOOMERANG* invites you to experience a totally new revolution in vehicle security, safety and convenience by allowing you interactive communication with your vehicle in audible and visible way. The *BOOMERANG* System provides 24 hours a day surveillance for your vehicle by giving you instant visual & audio warning through your intelligent Remote Control, in the event of illegal provocation or tampering of your armed vehicle.

Please read this manual carefully before using your System so that you are fully familiar with the operation of this latest version of Two-Way System and can take the full advantage of every marvelous feature provided by *Boomerang* System.

Proper wire connections and components placement are essential for optimum System performance. Due to expertise and complexity required for proper installation of the *Boomerang* System, we highly recommend that the installation be done by an authorized dealer.

Thank you.

### **Brief look at each device**

#### **1-1. Main control module**

This module is a main computer of the Vehicle Alarm System. It is usually installed under the bottom of the vehicle dashboard.

#### **1-2. Communication module**

Transmits and receives RF signals with the Remote Control. Status LED Lamp and a Valet button is built into the Module.

At the left side is a tuning screw for adjusting the range of Proximity door unlock sensing. (□ See 6-9, page 26??) It mounts to the window blind of the driver's seat with a clip.

#### **1-3. Shock sensor**

It senses the impact to the vehicle body. When an impact is applied to the vehicle, The sensor signals the Main Control Module to set off the Horn/Siren alarm sound and to activate the Remote Control's audio and visual warning signals.

#### **1-4. Siren**

If installed, alarm sound is set off from the siren when the vehicle is attacked. You can select your personal sound from five different modes. (□ See 8-1. page 29???)

#### **1-5. Paging / Temp. Sensor (optional-Not available I US model)**

tapping impact to the Remote Control (for paging the driver), and a temperature sensor which takes the temperature of the passenger compartment for display on the LCD screen of the Remote Control.

**Brief look at each device**

**1-6. Remote Control**

The Remote Control consists of TX/RX electronic circuits, LCD screen, quartz clock, melody buzzer and a vibrator.

Three rectangular buttons at the bottom of the LCD screen are used to program the System. The three lower round buttons are used to operate each function of the System.

**Antenna**

**LCD screen**

**MODE**

Selection of programming Mode  
Mute chirp sound  
Personal alarm

(A)

Door lock  
Arming/Disarming  
Vehicle finding  
Garage door open  
System's status check  
Emergency Panic Alarm  
Illumination On/Off  
Button lock(??)

**PROG**

Selection of programmable features On/Off  
Vibration mode  
System Valet

(T)

Door unlock  
Trunk release  
Temperature check


**SET**

Selection of second function  
Proximity function On/Off

(E)

Engine Start  
Engine Start setup(?)

Each graphic icon displayed on the LCD screen and each different melody/beep tone emitted from the Remote Control gives you both visual & audio information on the vehicle's status, every operating status / process of the System or System's present status.

The LCD screen is illuminated for approximately five seconds when you press button  or if the vehicle is tampered with. To make sure of each button pressure, each distinctive melody/beep sounds whenever you press the buttons.

**Points to noted for your better use**

**2-1. About Two-Way transmission**

The System uses two-way signal transmission, so the time required for communication takes longer than usual when communicating remotely either to operate the System or to check the operation result . That's because a large amount of information (bytes of signals) is exchanged between the TX part and RX part of the System with one press of a button.

communication, may also delay the signal transmission. For instance, if a signal from TX part is sent to the RX part of the Main Control Module while it is in sleep mode, the RX part may not recognize the signal sent by TX part for a few seconds until the RX part is in wake up mode and vice versa.

For the same reason, when you shut down any of the System's operation and get no response with your first press of a button, we recommend pressing the button again after waiting several seconds.

Do not press and hold down the button of the Remote Control heavily or frequently even when there are no immediate response. Instead, we highly recommend you to press button **A**, occasionally, when operating the System to check the present actual status of the System.

You can easily verify if you are in or out of range by pressing button **A** in arming status. If a melody sound is emitted when you press button **A**, you are within the communication range. If several beeps are emitted, you are out of communication range.

If the System is interfered by stronger radio frequency signals, sources of high voltage electric power or obstacles like tall buildings, the transmission range may get shorter as the System uses low out put power.

## 2-2. Battery replacement

The Remote Control is powered by a 1.5V type LR03 AAA alkaline battery. When the battery power begins to weaken, ?? icon displays on the LCD screen.


When the old battery is replaced to new one, three beeps sound from the Remote Control, the LCD screen is illuminated for approximately five seconds and the Remote Control vibrates and the clock on the LCD screen returning to AM12:00 after displaying all icons.

Correct the time and be sure to press button **A** one time in arming status before using.

Even if the battery is replaced, your programmed set value or ID remains unchanged. By pressing button **A** after battery replacement, the Remote Control automatically reads and memorizes all the previously set information saved in the Main Control Module.

## 2-3. About LCD screen

The LCD screen on the Remote Control displays graphic icons or figures. It provides you visual information on any trigger of the sensors and around the clock surveillance of your armed vehicle as

If you press button  the LCD screen illuminates for approximately five seconds. You can program each function by checking corresponding graphic icon or figures displayed on the LCD screen.

**Arming Mode**

Your vehicle is in arming mode.

**Personal Alarm**

You have set morning call alarm.

**Valet Mode**

All the functions are temporarily on hold.

**Vibration Mode**

Remote Control vibrates when the System is triggered.

**Programmable Engine Start**

At the set time, engine Starts automatically

**Trunk Release**

**Door Open Warning**

Doors are illegally opened.

**Door Lock**

Doors are locked.

**Hidden Alarm**

The alarm status is reported only to your Remote Control

**Mute Chirp Sound**

A short siren sound, emitted when operating, is silenced

**Battery Change**

You have to replace the battery of Remote Control.

**Communication Range**

You are within the range of communication

**Temperature Monitor**

(Not available in US model)

You can check indoor temperature of your vehicle

**Shock Sensor triggered**

There is a second impact applied to the body of your vehicle

**Engine Start**

Your vehicle's engine is running


**Door Unlock**

Doors are unlocked.

**Remote control functions**


**3-1. Door lock & arm the Vehicle**

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2. Press button .
3. With one chirp sound, turn signal lights flash one time.
4. Doors are locked and vehicle shall be in arming status in approximately ten seconds.

one chirp  
       
 one flash

Lock     Flash     Eyeball moves to right  
 and left in arming status

**To shut down the alarm sound, press button  or ?? .  
 It is recommended to press the button in between beeps on the Remote Control to make sure of shut-down.**

In the event that you lock the doors with the Remote Control while any of the doors are not closed completely, a little longer chirp sound will be emitted and alarm sound will be activated approximately ten seconds later although the doors are locked.


In arming status, the red Status LED lamp indicator on the Communication Module flashes once in a second, showing that the System is actively protecting your vehicle.



- If an optional relay is connected to the dome light, the dome light continues flashing while alarm is being activated.

**IMPORTANT !**

Make sure that, before arming the vehicle, the switch on dome light is at the position where it is interlocked to be turned on whenever the doors are opened.  
 Otherwise, the alarm functions will not work correctly.

### 3-2. Door unlock & disarm the Vehicle

1. Press button  in arming status.
2. Turn signal lights flash two times with two chirp sounds.
3. Doors are unlocked and vehicle is disarmed.

If you program ????, only the driver's door is unlocked with one press of button . With another press of button , all other doors are unlocked.

two chirps  
 two flashes  
 Unlock

If you do not open the vehicle within approximately 30 seconds after disarming the vehicle with the Remote Control, the doors lock again automatically and the vehicle returns to arming status.

If the turn signal lights flash four times with four chirp sounds when you unlock/disarm the vehicle with the Remote Control, it means that one of the doors was forced to open while you were out of transmission range.

If the turn signal lights flash three times with three chirp sounds when you unlock/disarm the door with the Remote Control, it means that the Shock Sensor was triggered while you were out of transmission range.

**2 stage door unlock**

It requires a simple programming of the System to enable the feature and consult with your dealer.??

1. When you press button T in arming status, only the driver's door is unlocked.
2. When you press button T again, all other doors are unlocked.

**3-3. Trunk release**


1. Press button SET.
2. Press button  and the trunk opens.

????????????????  **You can open trunk even in arming status.**

Even in arming status or when the vehicle is remotely starting, the trunk can be opened with your Remote Control. The Shock Sensor is bypassed for one minute after opening the trunk and so long as you close the trunk within one minute after pressing the button, the impact of trunk shut-down will not trigger the Shock Sensor. However, during above sequence, the door trigger or other sensors are ready to activate normally.

**3-4. Emergency panic alarm**

If you feel threatened at any time, you can trigger Horn/Siren alarm sound from anywhere within the Remote Control's range, even from within the vehicle and while in driving, whether or not the System is armed.


1. Press and hold down the button  for approximately four???????? seconds.
2. Horn/Siren continues sounding and turn signal lights of the vehicle continue flashing.

**To turn off the panic alarm sound, press button  again.**

**Be careful not to press and hold down the button SET inadvertently**

**3-5. Vehicle finding**

It is useful when you try to find your vehicle in a congested parking lot or in the dark at night.

1. Press button SET of the Remote Control.
2. Press button  of the Remote Control.
3. Turn signal lights flash and the Horn/Siren alarm each sound 10 times respectively.

### 3-6. Vibration mode

This is useful when you are in a noisy place and it is difficult to hear beep sound from the Remote Control. In this mode, the Remote Control vibrates if your vehicle is tampered with.

1. Press and hold down button **PROG** for approximately three seconds.
2. The Remote Control will be in vibration mode and, on the LCD screen, the ??? icon displays.

**To return to sound mode, press and hold down button PROG for approximately three seconds.**

### 3-7. Indoor temperature check (Not available in US model)




It is useful when you want to check the temperature in the passenger compartment before cooling or heating of your vehicle.

1. Press button **PROG**.
2. Press button **T** and the temperature displays on the LCD screen for approximately five seconds.

### 3-8. Mute chirp sound

The Horn/Siren chirp can be muted when placed in this mode.

You'd better turn off the chirp sound not to disturb your neighbors, for instance, if you operate the System late at night in a residential area.

- (A). If you want the chirp sound muted in one operation only, Press button **MODE** one time before pressing button   or . The chirp sound is silenced in that one operation only.


- (B). If you want the chirp sound mute always whenever you operate the System, program the System to

disable the chirp sound. (  See ??8-2, page 30)  
?? icon displays on the LCD screen.

### 3-9.Button Lock mode

If you wish to disable the signal transmission function from the Remote Control, you may implement this function, to lock out any other button operation.

It prevents from any inadvertent pressing of buttons by others.



1. Press button **MODE**.
2. Press button  for approximately two seconds.

**To release locked buttons, repeat above steps.**



the buttons are totally inoperative in Button Lock mode While in Valet Mode, you can press buttons to operate remote door lock/unlock or trunk release function. Even in the Button Lock mode, the System's status or any sensor's trigger in your vehicle is normally delivered to the Remote Control.

### 3-10. System's status check

When you want to check the System's present status on the LCD screen, press button  approximately two seconds in **arming status**. With one melody sound, the LCD screen illuminates approximately five seconds. By pressing button A approximately two seconds, you can also check if your Remote Control is within range of transmission or not. If within the range, a light melody sound emits with  icon displayed on the LCD screen. If you are out of range, five warning beeps emits.

### 3-11. Personal alarm call

If you set time and activate the alarm mode, the melody continues sounding, when the time arrives, for approximately 30 seconds to remind you of the appointment time or to wake you up.

After set the time you want,

( See 7-3, page ???28)

1. press button **SET**.

2. press button **MODE** and a clock icon displays on the LCD screen.


See 7-3, page ???28 to set the alarm.

In 'CA ON' mode, the Remote Control sounds the melody alarm automatically at the set time everyday.

In 'CA OF' mode, Remote Control sounds the melody alarm only one time after your pressing the **SET** button then the **MODE** button.

### 3-12. Garage door open(optional)

This mode is convenient when you approach your garage as you can open the garage door remotely without the need of exit from your vehicle.

- Press **PROG** button and then, press button .

To use this function, the vehicle should be equipped with optionally supplied RX module while a door open motor (?) should be installed to the garage door. For the details, consult with your dealer.

### 3-13. System valet mode

This mode is convenient when you handing over your vehicle to other persons as in the valet mode, the System's function will be on temporary hold.

However, the functions like remote door lock/unlock or trunk release continue to work normally. There are different ways of setting temporary hold of the System's function ;

**You can set valet mode on the Remote Control**

1. Turn the Ignition Key to 'ON' position in



2. Press button **SET**.
3. Press button **PROG** for approximately three seconds.
4. With a chirp sound, **???** icon displays on the LCD screen.

**To cancel or release from the valet mode, repeat above steps. With two chirp sounds, the System returns to normal status.**

## **Alarm functions**

### **4-1. Alarm by door, hood or trunk open sensing**

The System goes into arming status if you lock the doors after exit from your vehicle and arm the System with Remote Control after the elapsed preset delay time. (□ See 9-4, page ???) In arming status, if the doors/hood/trunk are opened without using Remote Control, the Horn/Siren alarm sounds and the turn signal lights continue flashing while the System immediately reports the triggered alarming status to the Remote Control. On the LCD screen, 'door', 'Hood' or 'OPEN' indication is displayed according to the triggered point with simultaneous icon flash **???**, **???** or **???** respectively and warning beeps continue sounding from the Remote Control.

1. To shut down the alarm sound from the vehicle, press button .
2. To shut down the warning beeps from the Remote Control, press button  again.
3. It is recommended to press the button while the beep sound from the Remote Control is between beeps.

### **4-2. Alarm by shock sensing**

If any external impact is applied to the body of your vehicle, the Horn/Siren alarm sets off and turn signal lights continue flashing while the System immediately reports the triggered alarm status to the Remote Control.

**???** icon flashes on the LCD screen and warning beeps continue sounding from the Remote Control.

1st stage - **????** Icon      2nd stage - Outline of vehicle  
Icon flashes with **????** icon

#### **□ Dual-stage shock sensing**

When any lighter impact is applied to the vehicle, Horn/Siren alarm sets off for approximately five seconds and turn signal lights continue flashing to warn away any potential intruders. If heavier impact is applied again, Siren/Horn alarm shall blast off for the duration of your set time. (□ See 9-5, page ???36) The dual-stage sensing feature may reduce 'false' alarm.

### **4-3. Hidden alarm (alarm sound Off)**

If you program the alarm sound mode to Off mode [Ho OF] (□ See 8-1, page ??29), the vehicle's Horn/Siren will be silenced and turn signal lights will not flash even if any of the sensors are triggered in the arming status. However, loud warning beeps continue sounding from the Remote

about the emergency state of the triggered alarm.

Therefore, in secret, you can immediately detect any unauthorized violation to your armed vehicle. This will also eliminate potential 'false' alarms which can be a nuisance in a residential area.

#### **4-4. Engine start disable in arming status (optional)**

If this optional feature is incorporated, the vehicle's engine will not start, in arming status, even with your ignition key. No prior set up is required if the option is installed as part of System installation in the vehicle. Consult with your nearby dealer.

#### **4-5. Auto rearming**

The doors are locked automatically and the System returns to arming status by itself if,


- the doors happened to be unlocked by pressing the button of the Remote Control inadvertently or
- you do not open the door within approximately 30 seconds after disarming the vehicle with your Remote Control.

#### **4-6. Auto lighting of dome light (optional)**

The dome light stays turned on for approximately eight seconds after you unlock the doors with the Remote Control. It is convenient when you approach your vehicle in the dark at night.

When the Horn/Siren alarm is set off, the dome light in the vehicle also flashes to draw added attention of the passers-by. To enable this function, consult with your nearby dealer.

#### **4-7. System trigger check**

If any sensors have been triggered and the Horn/Siren alarm activated while you were beyond the RF transmission range, the corresponding icons flash on the LCD screen and warning beeps emit when you press button  of the Remote Control within the RF transmission range.

Hood has been opened.

Doors have been opened

Trunk has been opened

1st stage shock sensor has been activated

2nd stage shock sensor has been activated



In the event that the door pin sensor is triggered after activation of shock sensor etc. is activated, all the corresponding icons are displayed. However, if the door pin sensor is triggered before other sensors, other icons are not displayed except the 'door' icon as the door trigger is assumed to be the most emergent condition.

## **Engine start function**

### **5-1. Remote engine start**

1. Press button  in arming status.


2. With one chirp sound, turn signal lights flash one time to confirm that the starter motor will start in approximately six seconds.
3. With three chirps, engine starts to run. During the remote start time, turn signal lights continue flashing every two seconds. From the Remote Control, an icon showing the gas emission flashes on the LCD screen and melody sound emits every two minutes to remind you of running engine.

**To shut down the engine, press button . Or unlock and lock the doors by pressing button  of the Remote Control.**

**IMPORTANT!**

Never activate the remote start System in an enclosed area as it can be very hazardous to your health due to the vehicle exhaust.

Blower fan, air conditioner or heater starts to operate approximately one minute after engine start. Before your last exit from your vehicle, make sure that the control switch of the air conditioner or heater is turned on to your desired temperature and the blow fan should be turned on too in advance.

The remote started engine will shut down automatically when your set time is elapsed (  See 9-2, page 734 for programming engine running time) even if you do not shut down the running engine.

If the engine has failed to run at first attempt, the System repeats cranking up to three times with approximately three seconds delay between each attempt.


If you open a door with the ignition key while the engine is remotely or programmed starting, the engine will shut down and the Horn/Siren alarm will be set off.

While the engine is running remotely, the System senses the door pin switch's trigger although the shock sensor's trigger is bypassed.

**5-2. Engine start memorizing for standard transmission vehicles**

The System senses the neutral transmission gear position and there is no prior setup required.

The System in the standard transmission vehicles runs as following process to sense and memorize the neutral transmission gear position before you exit the vehicle. However, if the vehicles are of automatic transmission gear, this process is omitted.

1. The engine will continue running for further one minute even after you pull off the ignition key from the key cylinder.
2. Exit from the vehicle within one minute after pulling off the ignition key. The engine continues running, which is normal operating process.
3. Close all the doors and press button  of the Remote Control to

4. The engine shuts down immediately and the System is now ready for next remote (or programmable) engine start.


If the doors are opened after above process, the prior memorization for the next remote or programmed engine start sequence is deleted and the function would not work until you repeat above process again.

**To cancel above prior memorization process for the remote or programmed engine start sequence,**


**(A). Method 1**

Pull off the ignition key while the driver's side door is opened and the dome light stays turned on. Then, the engine shuts down immediately and prior-memorization for the next engine start is cancelled.

**(B). Method 2**

Pull off the ignition key before your exit from the vehicle and then press button  of the Remote Control while you are inside the vehicle. Then, the engine shuts down immediately and prior-memorization for the next engine start is cancelled.


**5-3. To enter the vehicle after starting engine**

1. Press button  while the engine is running.
2. The doors are unlocked, the System is disarmed and the flashing turn signal lights stops simultaneously.

If you enter the vehicle while the engine is running and turn the ignition key to 'ON' position within one minute after unlocking the doors, you do not need to crank the starter motor again for driving.

If you do not turn the ignition key to 'ON' position within one minute after unlocking doors, the engine shuts down.




While engine is running    Press button     Door are unlocked

Enter into vehicle



Turn The Key To 'On'

**5-4. Programmed engine start**

morning or when the vehicle is parked beyond the range of the Remote Control. To set or cancel the function, your vehicle should be within the range of transmission from the Remote Control and also should be in arming status with all the doors locked.

1. Before set-up of programmed engine start, you should set your time for engine start. (□ See 7-2, page ??27)
2. Press button SET in arming status with all the doors locked.
3. Press button  and your set time for the next engine start flashes for approximately three seconds on the LCD screen.
4. After setup, ?? icon stays displayed on the LCD screen.

**To cancel the programmed engine start function,**

1. Press button SET and then, button  and ?? icon disappears on the LCD screen or
2. Press button .

**To shut down the running engine during the remote engine start sequence, press button .**

□ To change the programmed engine start time, (□ See 7-2, page ??27) and set a new time.

□ The pre-memorized time for the engine is not changed or deleted unless you do not change the programmed engine-start time. (□ See 7-2, page ??27)

□ Programmed engine start function is activated in the same condition as those in remote engine start. (□ See 5-1, page ??? 20)

## Convenience features

### 6-1. IG auto door lock & unlock

Approximately three minutes after turning the ignition key to the 'ON' position, the doors are automatically locked. When you turn off the engine, the doors are unlocked immediately.

The red status LED lamp on the Communication Module starts blinking when the IG door lock sequence starts. It stops blinking when the doors are locked approximately three minutes later.

The IG lock function will be disabled if you turn on the ignition key while the doors stay open. Therefore, be sure to turn on the ignition key after closing all the doors to enable the I.G. lock function.

If the vehicle has factory-equipped speed sensing door lock system, you should make sure to disable the function by programming the System to [dr OF] mode. (□ See 8-3, page ??30)

This is useful in the event that someone wants to page the driver of the parked vehicle.

If someone tries to page you by tapping the Paging (knock) Sensor which is usually mounted on the bottom part of the front window, the paging melody sound continues sounding from your Remote Control and 'CALL' indication flashes on the LCD screen.

1. To shut down the paging melody sound from the Remote Control, press button ?? or .
2. It is recommended to press the button while the melody sound from the Remote Control is on hold.

- When tapping the Paging(knock) Sensor, one chirp sound emits from the vehicle.
- The function works only in arming status.

#### **6-2. Automatic recharge of vehicle's battery**

With this feature selected to 'bA ON' in the System Programming 1 mode ( See 8-6, page ??32), the System runs the engine automatically for the preset time in arming status in the event that the vehicle's battery voltage drops below 11V to prevent the vehicle's battery from complete discharge. The function operates only one time until the next start of the vehicle's engine.

#### **6-3. Operational error warning**

The Remote Control emits warning beeps if you operate the System inadvertently, for instance, by pressing the engine-start button of the Remote Control while the vehicle is in disarming status or when pressing buttons beyond the transmission range.

#### **6-4. Cold weather start**

This function protects the vehicle's engine from the severely cold weather. No extra setup is required if programmed according to the process in the System Programming 2 mode. ( See 9-3, page 35??) After setup, simply park your vehicle after arming the System and the engine will start running and shut down automatically for the set time at every 1 hour, 2 hours or 3 hours' interval according to your set time.

#### **Not available in US model ..... 6-5. Temperature check**

You can monitor, from the LCD screen, the present indoor temperature of the passenger compartment before cooling or heating your vehicle. ( See 3-7, page 15??)

#### **6-5. Turbo engine charge**

To protect the engine and assure efficient shut-down of vehicles with Turbo engines, this function continues running the engine for an additional 1 or 3 minutes even though you remove the ignition key and lock the doors after exit from your vehicle. ( See 9-1, page ??34)

#### **Not available in US model ..... 6-6. Use of one-way Remote Control**

The System can be controlled by the one-way Remote Control separately supplied. Refer to article in page 42 & 43 for the details of available function and memorize the code to the System according to the code memorizing process before using it.

#### **6-6. Proximity door unlock**

If you set this function to 'Ad ON' mode in the System Programming 1 mode ( See 8-7, page 32??), doors are unlocked automatically when you approach near the vehicle even without pressing the button of the Remote Control. If you do not open the door within approximately 30 seconds after the doors are unlocked, the doors will lock again automatically.

The range of proximity differs depending on the environment around the vehicle. The optimum

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of the Communication Module. If you turn the screw clockwise, the range of activation gets longer; turn counter-clock wise, the range gets shorter.

#### **IMPORTANT!**

As far as you stay within the range of proximity from the vehicle with your Remote Control, the sequence of automatic unlock and lock continues repeating with approximately 15 seconds interval whether or not your Remote Control is outside or inside the vehicle. Therefore, your discreet use of this feature is absolutely required.

To disable this function, press and hold down the **SET** button approximately three seconds. To enable this function again, press and hold down the **SET** button approximately three seconds and with one beep, it returns to proximity door unlock mode.

### **Clock time setup**

#### **7-1. Correction of time (Ex. to PM 3:20)**

- Press and hold down **MODE** button for three seconds and 'STEP' indication is displayed with one beep sound.
- Press **PROG** button one time and 'Hour' indication flashes.
- Press **SET** button. 'AM12:00' indication is displayed and figure '12' flashes for hour correction.
- Press and hold down **SET** button until figure 'PM 3:00' shows.
- Press **PROG** button and figure '00' flashes for minute correction.
- Press and hold down **SET** button until figure '20' shows.
- Press **MODE** button to save your selection and return to normal screen.

Time can be set up both in arming or disarming status.

#### **7-2. Time setup for programmed engine start (Ex. to AM 6:20)**

- Press and hold down **MODE** button for three seconds and 'STEP' indication is displayed with one beep sound.
- Press **PROG** button two times and 'Prog' indication flashes.
- Press **SET** button. 'AM12:00' indication is displayed and figure '12' flashes for hour setup.
- Press and hold down **SET** button until figure 'AM 6:00' shows.
- Press **PROG** button and figure '00' flashes for minutes setup.
- Press and hold down **SET** button until figure '20' shows.
- Press **MODE** button to save your selection and return to normal screen.

#### **7-3. Time set-up for personal alarm(Ex. to AM 6:15)**

- Press and hold down **MODE** button for three seconds and 'STEP' indication is displayed with one beep sound.
- Press **PROG** button three times and 'CALL' indication flashes.
- Press **SET** button. 'AM12:00' indication is displayed and figure '12' flashes for hour setup.
- Press and hold down **SET** button until figure 'AM 6:00' shows.
- Press **PROG** button and figure '00' flashes for minutes setup.



- Press **MODE** button to save your selection and return to normal screen.

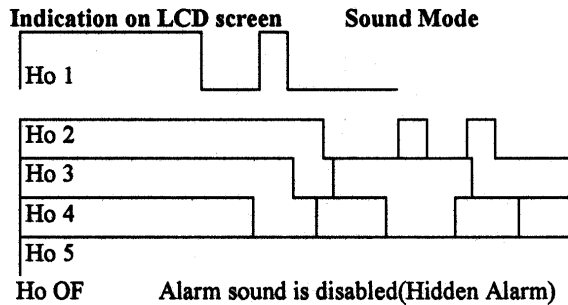
### System programming 1

The System programming process works only *in disarming status* and within the RF transmission range. Depending on the circumstances or your preference, you can select, disable or change various functions and function mode of the System. The programmed value is memorized to the Main Control Module and is not deleted even if you replace the battery in the Remote Control as long as you do not initialize the System.

#### 8-1. Alarm sound(Ho) mode selection

By selecting your personal alarm sound mode, you can easily tell whether the alarm sound activated is from your vehicle or not. Or, you can make the alarm sound off (*Ho OF*) to enable the **Hidden Alarm** function. ( See 4-3, page ??18)

- Press **MODE** button for three seconds and '*STEP*' indication is displayed with two beep sounds.
- Press **MODE** button once again. With one beep sound, '*SySI*' indication is displayed.
- Press **PROG** button one time and '*Ho 5*' indication is displayed.
- Whenever you press **SET** button, '*Ho 1*' to '*Ho OF*' indication is displayed in turn. Select your desired sound mode from among '*Ho 1*'  '*Ho OF*'.
- Press **MODE** button to save your selection and return to normal screen.



#### 8-2. Chirp sound mute(So) On/Off

Chirp sound, a short sound emitted from the Horn/Siren of your vehicle when you operate the System with the Remote Control, can be enabled or silenced.

- Press **MODE** button for three seconds and '*STEP*' indication is displayed with two beep sounds.
- Press **MODE** button once again. With one beep sound, '*SySI*' indication is displayed.
- Press **PROG** button two times and '*So OF*' indication is displayed.
- Press **SET** button to select from '*So ON*' or '*So OF*'.

### 8-3. Ignition auto door lock(dr) On/Off

If the vehicle has a factory-equipped speed-sensing door lock system, you should not use the IG lock function of this System. Disable it by setting the program to '*dr OF*'. (□ See 6-1, page 24??)

- .Press **MODE** button for three seconds and '*STEP*' indication is displayed two beep sounds.
- .Press **MODE** button once again. With one beep sound, '*SySI*' indication is displayed.
- .Press **PROG** button three times and '*dr ON*' indication is displayed.
- .Press **SET** button to select from '*dr ON*' or '*dr OF*'.
- .Press **MODE** button to save your selection and return to normal screen.

### 8-4. Passive Arming(PA) On/Off

If you program the Passive arming to 'ON' mode, the System automatically arms approximately 30 seconds after shutting down the engine, exiting from the vehicle and closing the doors even if you do not press the button on your Remote Control.

- .Press **MODE** button for three seconds and '*STEP*' indication is displayed two beep sounds.
- .Press **MODE** button once again. With one beep sound, '*SySI*' indication is displayed.
- .Press **PROG** button four times and '*PA ON*' indication is displayed.
- .Press **SET** button to select from '*PA ON*' or '*PA OF*'.
- .Press **MODE** button to save your selection and return to normal screen.

### 8-5. Passive door lock(PL) On/Off

If you program the Passive door lock(PL) to 'ON' mode, the doors of the vehicle automatically lock approximately 30 seconds after shutting down the engine, exiting the vehicle and closing the doors even if you do not press the button on your Remote Control.

- .Press **MODE** button for 3 seconds and '*STEP*' indication is displayed with two beep sounds.
  - .Press **MODE** button once again. With one beep sound, '*SySI*' indication is displayed.
  - .Press **PROG** button five times and '*PL ON*' indication is displayed.
  - .Press **SET** button to select '*PL ON*' or '*PL OF*'.
  - .Press **MODE** button to save your selection and return to normal screen.
- 
- The Passive door lock function works only when you program the Passive arming function to 'ON' mode.(□ See 8-4, page 31??)
  - If you open the doors again after closing them, the passive locking sequence is cancelled.
  - If you set to '*PL ON*', one chirp sound emits with one flash of turn signal lights and the doors are locked, approximately 25 seconds later, with three chirp sounds.

### 8-6. Vehicle's battery recharge(bA) ON/OFF

This enables or disables the function of automatic recharge of the vehicle's battery.

- .Press **MODE** button for three seconds and '*STEP*' indication is displayed with two beep sounds.
-

'SySI' indication is displayed.

- . Press **PROG** button **six times** and 'bA OF' indication is displayed.
- . Press **SET** button to select from 'bA OF' or 'bA ON'.
- . Press **MODE** button to save your selection and return to normal screen.

#### ????????8-7. Proximity door unlock(Ad) On/Off

This enables or disables the function of proximity door unlock function.

- . Press **MODE** button for 3 seconds and 'STEP' indication is displayed with two beep sounds.
- . Press **MODE** button once again. With one beep sound, 'SySI' indication is displayed.
- . Press **PROG** button **seven times** and 'Ad OF' indication is displayed.
- . Press **SET** button to select from 'Ad ON' or 'Ad OF'.
- . Press **MODE** button to save your selection and return to normal screen.

#### 8-8. Personal alarm function(CA) On/Off

If you activate this function, melody alarm from your Remote Control continues sounding for approximately 30 seconds when your set time arrives. In 'CA ON' mode, Remote Control gives off the melody alarm automatically at the set time everyday.

In 'CA OF' mode, Remote Control gives off the melody alarm only one time.

- . Press **MODE** button for 3 seconds and 'STEP' indication is displayed with two beep sounds.
- . Press **MODE** button once again. With one beep sound, 'SySI' indication is displayed.
- . Press **PROG** button **seven times** and 'CA OF' indication is displayed.
- . Press **SET** button to select from 'CA OF' or 'CA ON'.
- . Press **MODE** button to save your selection and return to normal screen.

#### Not available now.....8-9. Home security control function(HS) On/Off (optional - to be released)

The Home Security System compatible to this System is yet be released. Contact with your nearby dealer for further information. When you install the Home Security System, you can activate the system with your Remote Control by setting to 'HS ON' to control the compatible Home Security System.

- . Press **MODE** button for 3 seconds and 'STEP' indication is displayed with two beep sounds.
  - . Press **MODE** button once again. With one beep sound, 'SySI' indication is displayed.
  - . Press **PROG** button **nine times** and 'HS OF' indication is displayed.
  - . Press **SET** button to select 'HS ON' or 'HS OF'.
  - . Press **MODE** button to save your selection and return to normal screen.
-

## Technical support

### Shut-down of battery power to the System

If an unexpected error occurs or when the alarm activates without definite reasons, remove the fuse as in the following steps to block the vehicle's power supply to the System.

- Open the door with ignition key or with other methods.
- Check the bottom part of the dashboard (usually over the brake pedal) to find the Main Control Module.
- Locate the heavy-gauge six strip wire which comes out from the Main Control Module and connects to the power supply wire of the vehicle.
- Identify a RED and RED/WHITE wire from a six strip of wire in which a black fuse holder is connected in the middle.
- Remove the fuse from the fuse holder.

You can drive the vehicle normally even if the System's function is temporarily on hold by removing the fuse from the fuse holder.

## System programming 2 mode

### 9-1. Turbo charger(Tb) mode selection

To protect the engine of vehicles equipped with a turbocharged engine, you can program the engine to continue running for 1 or 3 minutes even after you remove the ignition key and lock the doors. You can select the turbo charge run time from 1 minute (*Tb 1*) or 3 minutes (*Tb 3*). Or, turn off the Turbocharger mode using (*Tb OF*).

- Press **MODE** button for three seconds and '*STEP*' indication is displayed with two beep sounds.
- Press **MODE** button twice again. With one beep sound, '*SyS2*' indication is displayed.
- Press **PROG** button one time and '*Tb OF*' indication is displayed.
- Press **SET** button to select '*Tb 1*', '*Tb 3*' or '*Tb OF*'.
- Press **MODE** button to save your selection and return to normal screen.

### 9-2. Engine running time(En) selection

You can select engine running time duration of 5 minutes(*En 5*), 15 minutes(*En 15*) or 25 minutes (*En 25*).

- Press **MODE** button for three seconds and '*STEP*' indication is displayed with one beep sound.
  - Press **MODE** button twice again. With one beep sound, '*SyS2*' indication is displayed.
  - Press **PROG** button two times and '*En 5*' indication
-

- . Press **SET** button to select '*En 5*', '*En 15*' or '*En 25*'.
- . Press **MODE** button to save your selection and return to normal screen.

### 9-3. Cold weather start mode(CS) selection

After programming the function, beep will be emitted from the Remote Control, to remind you of your setup mode. One beep sounds whenever you press the button .

- One beep from the Remote Control when you press the button means that your selection is one hour engine start interval.(CS 1)
- Two beeps means two hours engine start interval.(CS 2)
- Three beeps means three hours engine start interval.(CS 3)
- . Press **MODE** button for three seconds and '*STEP*' indication is displayed with two beep sounds.
- . Press **MODE** button twice again. With one beep sound, '*SyS2*' indication is displayed.
- . Press **PROG** button three times and '*CS OF*' indication is displayed.
- . Press **SET** button to select '*CS 1*', '*CS 2*', '*CS 3*' or '*CS OF*'.
- . Press **MODE** button to save your selection and return to normal screen.

### 9-4. Setup of alarm time(Sh) triggered by shock sensor

The System is designed to activate with the sequence of 1st stage and 2nd stage shock sensor trigger separately. When the 1st stage sensor is triggered, chirp sounds for five seconds. In the 2nd stage shock sensor trigger, the alarm can be activated for the duration of 10(*Sh10*) ,20(*Sh20*), 30 (*Sh30*) or 60 seconds(*Sh60*) according to your mode selection.

- . Press **MODE** button for three seconds and '*STEP*' indication is displayed with one beep sound.
- . Press **MODE** button twice again. With one beep sound, '*SyS2*' indication is displayed.
- . Press **PROG** button four times and '*Sh 10*' indication is displayed.
- . Press **SET** button to select '*Sh 10*', '*Sh 20*', '*Sh 30*', '*Sh 60*' or '*Sh OF*'.
- . Press **MODE** button to save your selection and return to normal screen.
- If you set to '*Sh OF*', all the shock sensor triggers are disabled.

## Technical support

### System programming P3 mode – Step 1

This program setup process is required when you want to make the ;

- System setup in Valet mode
- Password change to other figures (The factory-set default password is '33')
- Code of the Remote Control memorized or to erase the code already entered
- System initialize

Before entering into above program setup mode, you should enter a default password (33) and make the System in Valet mode as in the following steps;

1. Turn the ignition key to 'ON' position.

ten seconds after the dashboard illuminates. press the program button (Valet button) three times as the first digit of the default password of the System is '3'.




3. Turn the ignition key to 'OFF' position.
4. Turn the ignition key to 'ON' position again.
5. Enter the second digit of the default password. press the program button (Valet button) three times as the second digit of the default password of the System is '3'.
6. Turn the ignition key to 'OFF' position.
7. With one beep sound, the default password is entered and the System is set into Valet mode.

If an unexpected error occurs or when the alarm activates without definite reasons in the System in Valet mode as in above steps and consult with your security dealer.

- To return to normal mode from the Valet mode,  
simply repeat above steps and with two beeps, the System returns to normal mode.


## System programming P3 mode – Step 2

### (A) P3-1 : Password change (ex. To change the password to figure '54')

1. Turn the ignition key to 'ON' position in the Valet mode (after completing above Step 1.)
2. Press the program button three times within ten seconds after the dashboard illuminates. And again without pause, press and hold down the program button until a long beep sound emits.
3. After pressing the program button one time, depress the brake pedal one time.
4. Press button  of the Remote Control five times to change the 1st digit to '5'.
5. Press button  of the Remote Control four times to change the 2nd digit to '4'.
6. Press button  of the Remote Control.
7. Turn the ignition key to 'OFF' position.
8. With one longer beep sound, the new password '54' is entered.

### (B) P3-2 : Memorization of the Remote Control Code

The System memorizes up to three codes of different Remote Control.

1. Turn the ignition key to 'ON' position in the Valet mode (after completing above Step 1.)
2. Press the program button three times within ten seconds after the dashboard illuminates. And again without pause, press and hold down the program button until a long beep sound emits.
3. After pressing the program button two times, depress the brake pedal one time.  
At this time, you can check the number of codes entered in the System.  
If one code is entered, the System emits one beep sound after a longer beep sound.  
If two codes are entered, the System emits two beep sounds after a longer beep sound.  
If three codes are entered, the System emits three beep sounds after a longer beep sound.
4. Press button  of the new Remote Control to memorize the code of it.
5. Turn the ignition key to 'OFF' position.
6. With one longer beep sound, the new code of a new Remote Control is memorized.


### (C) P3-3 : Erase of the code of the Remote Control from the System

1. Turn the ignition key to 'ON' position in the Valet mode (after completing above Step 1.)
2. Press the program button three times within ten seconds after the dashboard illuminates. And again without pause, press and hold down the program button until a long beep sound emits.
3. After pressing the program button two times, depress the brake pedal one time and one beep

4. Turn the ignition key to 'OFF' position.
5. With one longer beep sound, the codes entered in the System will be erased.

**(D). P3-4 : Initialization of the System**

If the System is initialized, all the set value of the System returns to factory setup mode and the memorized code of the Remote Control will be deleted too from the System.

1. Turn the ignition key to 'ON' position in the Valet mode (after completing above Step 1.)
2. Press the program button three times within ten seconds after the dashboard illuminates. And again without pause, press and hold down the program button until a long beep sound emits.
3. After pressing the program button four times, depress the brake pedal one time and one beep sound emits.
4. Press button  of the Remote Control
5. Turn the ignition key to 'OFF' position.
6. With one longer beep sound, the System will be initialized.

**IMPORTANT!**

If the Remote Control is lost, be sure to make the System to valet mode (□ See 3-12, page 16) and obtain a new Remote Control as soon as possible from the dealer.  
And then, initialize the System and memorize the code of the new Remote Control to the System lest the lost Remote Control is used illegally to your vehicle by other persons.


**Tips for troubleshooting**

PROBLEM	POSSIBILITY & POINTS TO VERIFY	SUGGESTION
Alarm sound is activated.	The vehicle is violated.	Press button of Remote Control to shut down the alarm sound and check the cause of the alarm trigger.
	In case the Remote Control is lost.	Make the System in valet mode(□ See 3-12, ??p16) and contact nearby dealer.

	and ignition key are lost or you do not know the reason for the malfunction.	connected in the middle of the RED wire from the Main Control Module(□ See?? p37) and contact nearby dealer
All functions of the System do not work.	Verify if the fuse is cut, which is connected in the middle of the RED wire coming from the Main Control Module.	Replace the fuse. (30A, For vehicle use) (□ See 2-6(C)???)
	Verify if the vehicle's battery is completely discharged.	Replace the vehicle's battery.
Alarm Siren (Horn) will not trigger.	Check if the remote door locking function operates normally and if the red LED lamp indicator stays lighted when you turn the ignition key to the 'ON' position.	If yes, the System is in Valet. Disable the Valet mode. (□ See 3-12, p16??)
	Check if the dome light is not turned on when the doors are opened.(If dome light wired)	Make sure that the switch of the dome light is at the position where the dome light is interlocked to be turned on whenever the doors are opened.
	Check if the light bulb of dome light is burned out.	If yes, replace light bulb.

PROBLEM	POSSIBILITY & POINTS TO VERIFY	SUGGESTION
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Remote engine start sequence does not work.	dome light is at the position where it is interlocked to be turned on whenever the doors are opened.	closed or put the dome light switch at the center position.
	For automatic transmission vehicles, check the position of the transmission gear.	Make sure that the transmission gear is at the "P " or "N " position.
	Verify the connection status of BLACK ground wire coming from the Main Control Module.	Connect the wire properly, if not.
Programmed engine start function does not work.	Make sure the ?? icon is displayed on the LCD screen.	Activate the programmable engine start time. (□ See 5-4, p 23??)
Paging sensor is too sensitive		Turn the tuning screw at the rear side counter-clockwise to set the sensitivity lower.
Horn(Siren) continues sounding intermittently	Verify if the sensitivity of The Shock Sensor is optimized.	Turn the tuning screw of the Shock Sensor slowly counter-clockwise to lower the sensitivity.
Remote Control does not work.	Check if ?? icon is displayed on the LCD screen.	Check if three beep sounds are emitted from the Remote Control after removing and inserting the battery into the battery holder.
	Check if the buttons of Remote control are locked	Press MODE□ button 
	If there are no problem □	Re-initialize the System again.

#### Helpful Tips before use

Keep the Remote Control dry.

Do not disassemble the Remote Control.

Be careful not to press the buttons of Remote Control with too much force or frequently as it may cause operational error or temporary drain of the Remote Control's battery.

The transmission range may get shorter , in the event that the System is interfered by stronger radio frequency, sources of high voltage electric power, or obstacles like tall buildings.

If the standard transmission vehicle is parked at a steep location, take great care for the safety of the pedestrians and the vehicle. In such



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### Use of one-way Remote Control

One piece of one-way Remote Control is supplied together with two-way Remote Control. It has only System control functions and the transmission range gets longer if you use the Antenna to the maximum.

One-way Remote Control consists of ROD Antenna, 3 buttons and LED lamp and button press makes different beeps. The LED lamp turns on whenever pressing button

The process of Code memorizing is same as the two-way Remote Control (□ -3, Page 39)

It uses 2 pcs of CR2025 3V lithium battery and it goes usually about 6 months with normal use. If you feel the operating range gets drastically shorter or the beep sound gets weaker, replace the battery.

#### -1. Door lock/arm the System

1. Close doors after exit.
2. press button .

#### 2. Door unlock/disarm the System

Press button to unlock/disarm in arming status.

### Use of one-way Remote Control

#### -3. Remote engine start

Press button ,in arming status, and engine shall be started approximately 6 seconds later.

---

#### **-4. Trunk release**

Press and hold down button for approximately 3 seconds.

#### **-5. Mute chirp sound (one time only)**

Press button before pressing button or to operate the Systems function.

#### **6. Emergency panic siren**

Press and hold down button for approximately 3 seconds

#### **Delete ???.....9-4. Delay time(Sh) setup**

You may need to adjust the delay time for sensor trigger after shutting down the cooling fan runs a different time duration according to vehicle type. You can select from 90 seconds.

- Press **MODE** button for three seconds and '*STEP*' indication is displayed with two beep sounds.
- Press **MODE** button twice again. With one beep sound, '*SyS2*' indication is displayed.
- Press **PROG** button four times and '*ST 20*' indication is displayed.
- Press **SET** button to select '*ST 20*', '*ST 30*', '*ST 60*' or '*ST 90*'.
- Press **MODE** button to save your selection and return to normal screen.