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## 1. PACKAGE CONSTITUENTS

순번	품명	수 량	비고
1	BS-1200R	1 EA	REMOTE CONTROLLER
2	BATTERY	2 EA	Lithium batteries (CR2032)
3	BS-1202G	1 EA	MAIN CONTROL UNIT
4	BS-1200R	1 EA	STARTER RELAY UNIT
5	BS-1200E	1 EA	EXPANSION CONTROLLER
6	SHOCK SENSOR	1 EA	
7	ANTENNA	1 EA	
8	SIREN	1 EA	

## 2. ALARMING SIGNALS OF EACH FUNCTION

Function	signals	SIREN				LIGHT		
		beep	beep (2times)	beep (3times)	beep~	1time	2times	blinking
O P E R A T I O N	DOOR LOCK		●				●	
	DOOR UNLOCK	●				●		
	TRUNK	● (Auto Mode)						
	IDENTIFYING LOCATION	● (Just 1 Time)						● (2snd, 12 Times)
	REMOTE START ON & OFF		●				●	
	CONFIRM REMOTE START (LASTING 15 MIN. BEFORE RECOGNIZING REMOTE)							● (4 snd Interval)
A L A R M	SHOCK, INTRUSION				● (30 snd)			● (30 snd)
	NOTIFY ALARM RUN (AFTER REMOTE RECOGNITION AND UNLOCK)		●					
	NOTIFY POWER MALFUNCTION (AFTER REMOTE RECOGNITION AND UNLOCK)			●				
	NOTIFY ENGINE START (AFTER START WITHOUT KEY)	● (2 snd, 15 Times)						
S E T T I N G	FUNCTION STOP		● (Disable)	● (Enabled)				
	MANUAL OPERATION MODE		● (Disable)	● (Enabled)				
	REMOTE ID INPUT (START/STOP)	● (Start)	● (Stop)			● (Input Start)		
	CONFIRM ID INPUT (AFTER SUCCESSFUL INPUT )					● (3 Times, Deleted)	● (Input Completed)	

### 3. OPERATION OF FUNCTIONS

#### 3-1. OPERATION OF REMOTE CONTROLLER

- Door is unlocked automatically when the Remote holder comes within the recognition area.
- Door is locked automatically when the Remote holder goes far from the recognition area after pre-defined time.

Recognition area depends on installation situation, battery consumption, and the other conditions as the case may be.

#### 3-2. SELECTION OF OPERATING MODE

##### 1) AUTO OPERATION MODE

###### ① Recognition Mode

- The mode of door lock operated automatically when the Remote holder is out of recognition area.
- Alarm operates when abnormal shock and unallowed intrusion is sensed.
- In this mode, remote engine start and location identification function can be operated.

###### ② Confirming Mode

- The mode of door unlock operated automatically when the Remote holder is within the recognition area.
- Door lock operates when the Remote is not detected after being searched for repeatedly.
- In this mode, door lock and trunk opening can be operated with the buttons on Remote.

###### ③ Driving Mode

- The mode which the metal key is inserted in Confirming Mode.
- Repeated searching for Remote is stopped and only the button functions on Remote operate.
- Door lock (or unlock) and trunk opening can be operated with the buttons on Remote.

##### 2) MANUAL OPERATION MODE

###### ① The active mode of alarm

- The mode of door lock operated with the button of [LOCK] on Remote.
- Shock and intrusion can be detected.
- In this mode, remote engine and location identification function is operated.

###### ② The passive mode of alarm

- The mode of door unlock operated with the button of [UNLOCK] on Remote.
- Trunk can be opened with the button of [TRUNK] on Remote.
- In this mode, remote engine start and identifying of location can be operated.

## 4. INTRODUCTION TO FUNCTIONS

### 4-1. BASIC FUNCTIONS

#### 1) AUTO DOOR LOCK

- Door is locked or unlocked as the Remote holder goes away from or comes closer to the car.
- The area door lock function is operated can be adjusted within 5 meters by you.
- Even after Remote is recognized, it is detected repeatedly for door lock function.
- This function does not operate when the door is opened or when the metal key is inserted.

① When owner is recognized,

Operation			
	Release door lock	Beep (1 time)	Light blink (1 time)

② When owner is not recognized

Operation			
	Door will be locked	Beep (1 time)	Light blink (2 time)

#### 2) DOOR LOCK (UNLOCK) WHEN STARTED (STOPPED)

- Door lock is operated with ignition on when the metal key is inserted.
- When you turn ignition off or when you pull out the key, door lock is released automatically.

Door lock function is not properly operated in case of some cars.

#### 3) REMOTE ENGINE START

① Function of remote engine start

- The function of starting engine with Remote at distance
- It's a convenient function for cooling(warming up) the car during summer(winter) in advance.
- The distance remote engine start is operated depends on car condition, battery consumption, and the other conditions as the case may be.
- Engine started by Remote is running 15 minutes, and then if owner is not recognized or if the metal key is not on, engine is stopped. Remote engine start is tried 3 times to succeed in.
- After remote engine start, when owner is recognized and the door is opened, you can hear beep every other two seconds if you do not insert the metal key within 30 seconds, and then engine is stopped another 30 seconds after that with two times beep.

make sure metal key should be inserted. After remote engine start and then door open, if key is not inserted, engine will be stopped.

- Remote engine start(tried three times repeatedly in case of failure)

Operation				
Push button 1 snd		2 times beep	2 times beep	(Engine start) Blinking(every other 4 snd) for 15 minutes

- Remote engine stop

Operation				
Push button 1 snd		2 times beep	2 times beep	Vehicle engine stop

## ② Heater, air-conditioner

- Remote engine start is normally operated in summer or in winter adjust inner temperature.
- Heater and air-conditioner work well only when they are set properly in advance.
- Heater and air-conditioner are operated 2 seconds after remote engine start.

## ③ Confirming remote engine start

- When remote engine start is operated properly, light blinks for 15 minutes at 4 second intervals.
- If remote engine start is not confirmed, check your car first manually, and then contact A/S center near you.

## ④ Cautions

- If you open door with the metal key without being recognized by Remote after remote engine start, engine will be stopped and the alarming beep will sound.
- Remote engine start is tried up to three times in case of failure for old cars in winter.  
(It includes a warming-up function for diesel automobiles.)
- After remote engine start, when owner is recognized and the door is opened, you can hear beep every other two seconds if you do not insert the metal key within 30 seconds, and then engine is stopped another 30 seconds after that with two times beep.
- Heater and air-conditioner work well only when they are set properly in advance.

## 4) IDENTIFYING LOCATION

- The function of identifying location at distance with Remote

- Light will blink when you push the button on Remote, if the car is within the recognition area.
- Operating the function

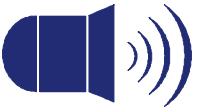
Operation			
	Short push	1 time beep	12 times blink

## 4-2. ADDITIONAL FUNCTIONS

### 1) ALARM FOR SHOCK AND INTRUSION

- The function of notifying shock and unauthorized intrusion with alarm and light blinking.
- After the intruder closes the door, the locking device operates automatically.
- The alarm will operate thirty seconds.
- After alarm operates, when the Remote holder comes closer, the alarm will stop.

#### ① operation of alarm

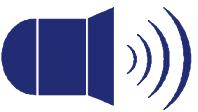
Operation				
	Intrusion	Beep 30 seconds	Blink 30 seconds	Automatic lock

#### ② stop of alarm operation

- Alarm will be stopped with the [UNLOCK] button on Remote or with the recognition of Remote.
- Alarm will stop after 30 seconds.

### 2) NOTIFICATION OF ALARM RUN

- When the Remote holder is recognized after the alarm starts, the door lock will be released and the fact of shock or unauthorized intrusion will be notified by sound.

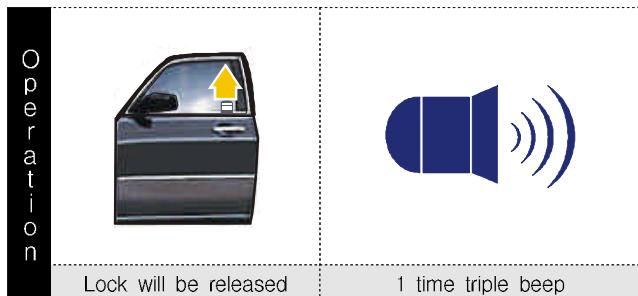
Operation		
	Door lock release	2 times double beep

### 3) IMMOBILIZING IGNITION

- The function to prevent theft.
- When the intrusion alarm is working, it prevents the engine from being started.
- This start kill function will be released when the Remote holder comes closer or when he push the button [UNLOCK] on Remote.

### 4) ALARM FOR POWER MAL-FUNCTION

- The alarm will sound when Remote battery decreases below a datum point.
- It is notified by alarming sound when the Remote holder is recognized and the door lock device is released.

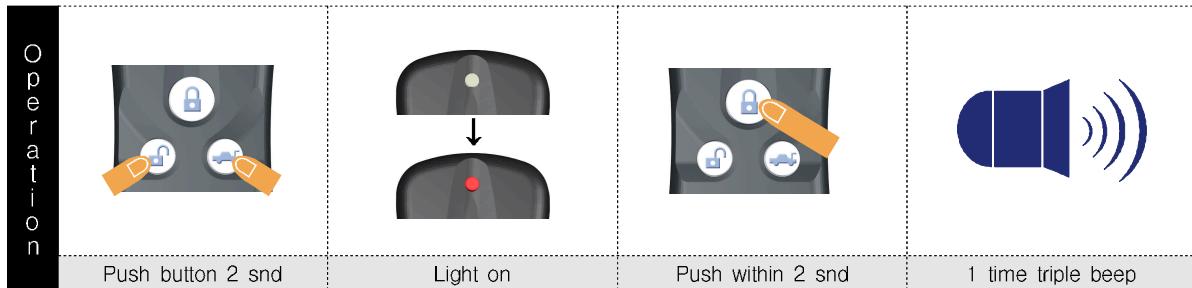


### 4-3. FUNCTION OF OPTIONAL MODE

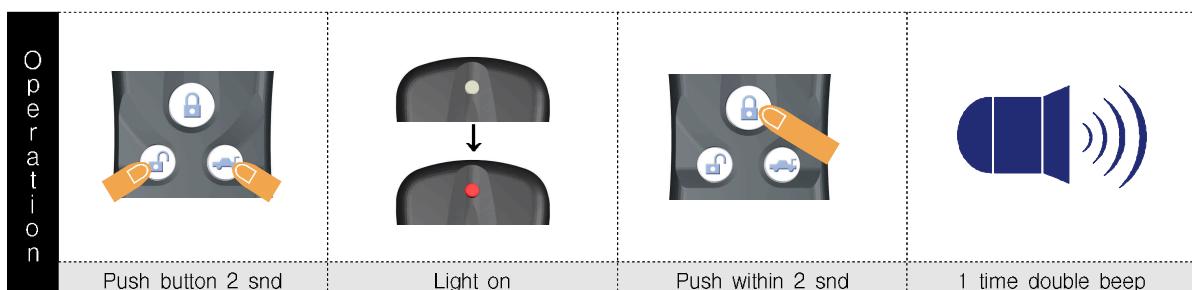
#### 1) MANUAL OPERATION MODE

- Automatic door lock function will be passive when selecting manual mode.
- Only buttons will operate each function in manual mode.
- [LOCK] button on Remote will operate the lock function.
- [UNLOCK] button on Remote will operate the unlock function.
- The default mode of Remote is set to auto.
- Mode can be selected only when Remote is recognized.

##### ① Selecting manual mode



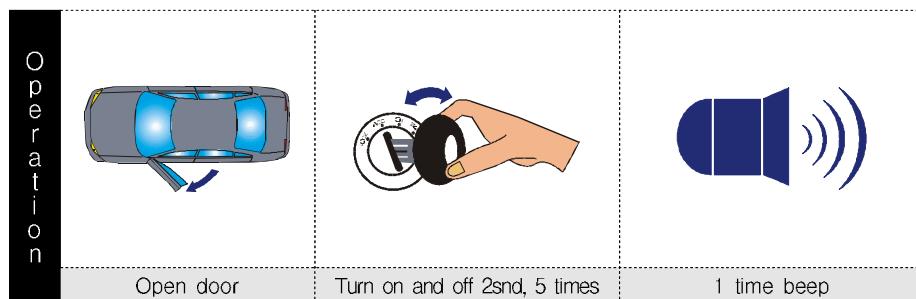
##### ② Release manual mode



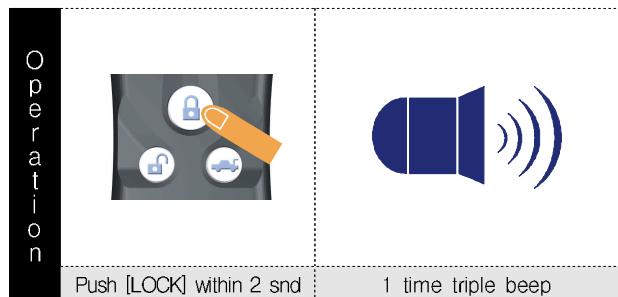
## 2) FUNCTION STOP

- This mode will stop all the functions.
- This mode can be selected for the cases of lending the car to others or for repairing it at A/S center.
- Pay attention to the fact that door lock and alarm function will stop under this mode.
- This mode can also be selected only when the Remote is recognized.
- To select this mode, turn the metal key on and off five times for 2 seconds each time with car door opened, and then use the Remote. To release this mode also, do the same procedures.

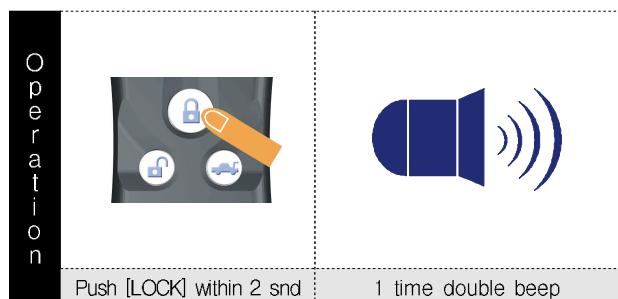
### ① First steps



### ② Operating mode disabled

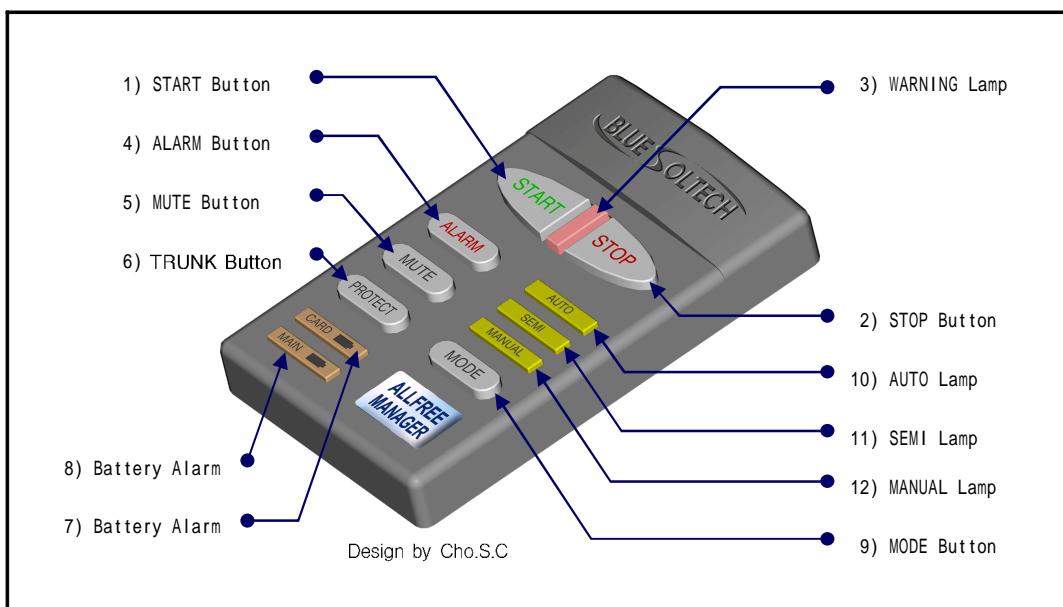


### ③ Operating mode enabled (after step ①)



## 5. EXPANSION CONTROLLER

### 5-1. Products Appearance and Functions



#### 1) START Button

Use to start vehicle after confirming Remote Controller

#### 2) STOP Button

Use to shut off the vehicle

#### 3) WARNING Lamp

Warning status indication and fault indication when functional failure of Expansion Controller

#### 4) ALARM Button

Use to notify emergency situation to surrounds (warning horn and indication lights are operated together)

#### 5) MUTE Button

ON and OFF for confirming sound of functional operation for vehicle

#### 6) TRUNK Button

Use to open vehicle trunk

#### 7, 8) BATTERY Alarm

Battery power indication of vehicle and remote controller

#### 9) MODE Button

Use to change the Operation Mode, such as Auto Mode, Semi Mode

#### 10) AUTO Lamp

Indication lamp of Auto Mode operation

#### 11) SEMI Lamp

Indication lamp for Semi Mode operation

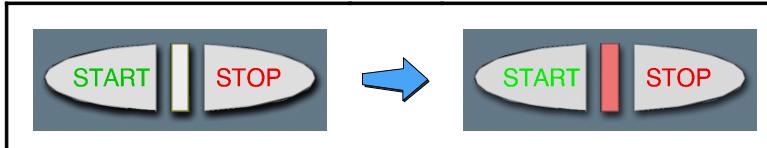
#### 12) MANUAL Lamp

Indication lamp of Manual Operation

## 5-2. Function of Expansion Controller

### 1) Engine Start

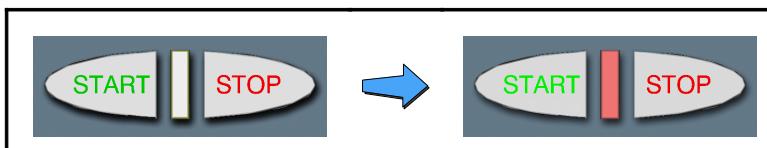
- Function to start vehicle without the relation of vehicle key position, it repeat 3 times if failed.
- It should be pressed over 1 second to start and to avoid the pressing by mistake during driving.
- Each vehicle requires some different preheating time, it is started at the proper preheating time.



**It should be driven by the vehicle key inserted.** If not, it will be stopped in 30 seconds after auto start.

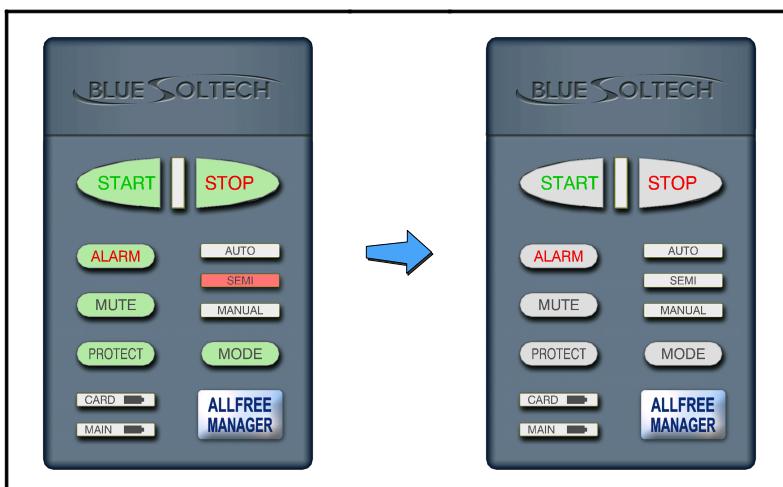
### 2) Engine Stop

- Function to stop by Expansion Controller. After engine stop, Door Lock is released automatically.

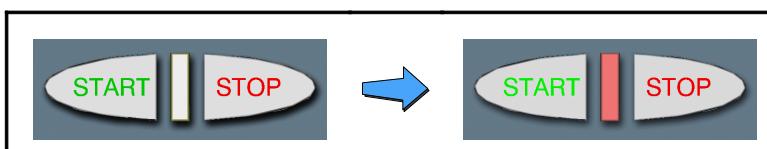


### 3) Warning Lamp

- Button Illumination and Status Indication Lamp is OFF automatically, when beyond the vehicle sensing range of Remote Controller.



- Warning Lamp is operated after Status Indication Lamp is OFF, and it notify the operating status of invasion sensing to the outside.



### 4) Panic Alarm



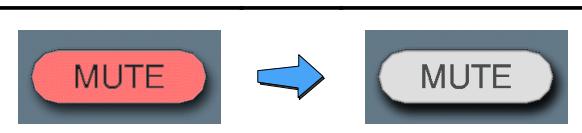
- Use to notify the personal danger or to indicate the urgent situation.
- When press the button, Parking Light is operated for 30 seconds with siren.
- To stop the Panic Alarm, press the <ALARM> button once again.

##### 5) Mute Function

- Confirmation sound does not work during the operation of Door Lock or Remote function.
- It is used at the place of noise disallowance area, such as apartment, public place, to stop the confirmation sound of Door Lock operation.
- Red Light is illuminated on the button during operation of Mute Function.



- When the button is pressed again, Mute Function is released and Red Light is OFF.



##### 6) Trunk Open

- Use to open the trunk
- It should be pressed over 1 second to operate and to avoid the pressing by mistake.

##### 7) Operation Mode

###### ① AUTO MODE

- Use to lock the door, to start the vehicle and drive urgently, in case of a suspicious-looking fellow is accessing or urgent situation to use the vehicle.
- By pressing [MODE] button on the Expansion Controller, make the [AUTO] on Operation Mode illuminated



###### [NOTE]

※ [When press [MODE] button, it is changed from [SEMI] to [AUTO] in order. Set to [SEMI] for normal use.  
[MANUAL] Lamp is not changed by Mode Button.  
The lamp can be ON, when changed to Manual Operation Mode by Remote Controller.

- After confirmed the Remote Controller, it is ready for start and then started automatically when door is opened.
- After start, the warning horn sounds every 2 seconds for 30 seconds and then engine is stopped automatically after 30 seconds.

**Please check the vehicle key is positioned at ON before driving for safety.**

###### ② SEMI MODE

- Locking System is automatically released when Remote Controller is sensed, and start can be achieved by Start Operation Button or vehicle key.
- By pressing [MODE] button on the Expansion Controller, make <SEMI> on the Operation Mode illuminated.



### [NOTE]

※ [When press [MODE] button, it is changed from [SEMI] to [AUTO] in order. Set to [SEMI] for normal use.

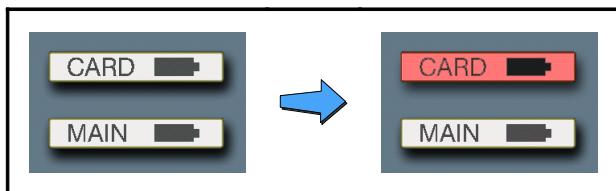
[MANUAL] Lamp is not changed by Mode Button.

The lamp can be ON, when changed to Manual Operation Mode by Remote Controller.

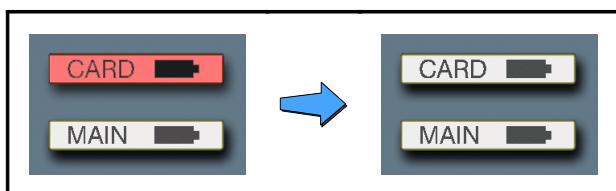
## 8) Power Warning

### ① Remote Controller

- When the battery voltage is consumed below the regular level, indication lamp will be ON.

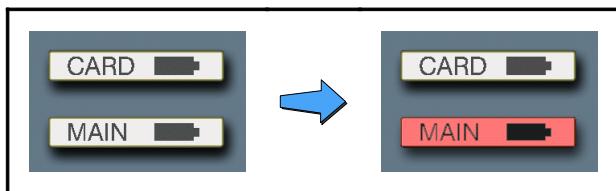


- After warning of battery power, it can be used for some period, but require to replace as soon as possible.



### ② Main System

- When battery voltage is dropped below the regular level, it is confirmed by Remote Controller, and Indication lamp on Expansion Controller works with warning sound, when Door Lock is released.



- When the battery is charged, Indication Lamp is not recovered at once.

The Indication Lamp is OFF, when the Remote Confirmation MODE or driving Mode is changed to Remote Recognition Mode.

