



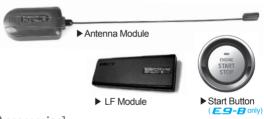
High Quality Starter and Alarm Systems

We sincerely appreciate you purchasing our vehicle starter and alarm systems. Our starter and alarm systems are produced with strict quality control and international standards, and includes a series of test including; extreme temperature, shocks, vibration and dropping. As a result, we are certain that you will be completely satisfied with our products.

Please read this manual carefully prior to using your new system. Please keep this manual accessible for future use.

[Remote Outside Name]









▶ Remote Case

▶ Computer USB Connector

Safety Information

※ Please take these safety precautions.

- Please read our Limited Warranty and Disclaimer information located at the back of this manual prior to using.
- It is not recommended installing this systen into a convertible vehicle with a manual transmission.
- We are not responsible for any injury or other liability resulting from the wrongful use of this system
- When using remote start, place the gear in the Parked or Neutral position, and set the Emergency brake or Foot brake
- In manual transmission vehicles; Do Not remote start in any position other than Neutral. We are not responsible for any damages or consequence resulting from this.
- The transmitting (TX) and receiving (RX) varies depends on the radio signal environment. Range and response time will vary.
- In the unlikely event of a defective product, do not open, repair or modify the system. Ask the seller for repair or replacement.
- We shall not be responsible for any theft or damage to your vehicle, since this is a subsidiary and convenient system only.
- Please note that some functions described in this manual are optional functions and may not be available on this model

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[OLED displays]



ACAUTION

Use of this system is for car start and alarm purpose only.

Since this system is a precise instrument that is fragile and susceptible to damage from external shock, do not drop the unit, and keep it away from children. Do not keep the remote near excessive humidity or water, as it is not water proof.

LCD Icon	LCD Function
H	Reservation mode (Manual transmission only)
Door Lock (Arm)	
ò	Door Unlock (Disarm)
≱ ▶	Panic Mode
((d)	Vibration
2	Trunk open
	Door open
*	Shock off
(Reservation Start



1.00.1	100 5 "	
LCD Icon	LCD Function	
	Remote Start	
$\mathbf{Z}^{\mathbf{Z}^{\mathbf{Z}}}$	Valet	
PASSIVE	Passive	
TURBO	Turbo	
AM00:00 Clock		
Owner call mode is set /Someone Calling Can owner		
	Driving door lock(Ignition Lock)	
m	Battery Meter	
1/2	Shock	
AUTO	Smart Door	
	Siliait Dooi	



2Way	1Way	Press(sec)	Function
	û	0.5	Door Lock(Arm)
ı	B	0.5	Door Unlock(Disarm)
II	7	0.5	AUX1
III	•	0.5	AUX2
IV	g -	0.5	Query Function (include : Temp. Battery volt. parking time check)
-	6 -	2	Panic Mode
11-	7-	2	Remote Start ON/OFF
-	~ −	2	Trunk Open
IV-		2	Vibration ON/OFF
+	6 + 6	0.5	Mute ON/OFF
+	1 + 7	0.5	Valet ON/OFF
+ V	1 + 🗪	0.5	Driving Door Lock ON/OFF
+	9 + 7	0.5	Passive ON/OFF
+ \/	+ 🗪	0.5	Shock Sensor ON/OFF
(+)-		2	Current Time Change
(+)-		2	Reserve Time Change
(+ V)-	(h + 🗪)	2	Option Mode 1
(+)-		2	Smart Door ON/OFF
(+ V)-		2	Reservation Start ON/OFF
(+ \/)-	(P +)-	2	Turbo ON/OFF
IV		5	Power ON/OFF
		5	Option Mode 2



- * 0.5 sec.: Press the button for 0.5 second.
- * 2 seconds(-): Press the button for 2 seconds till it operates at your vehicle
- * +: Press 2 buttons simultaneously.

1. Lock/Unlock (Arm/Disarm)

1-1 Door Lock(Arm)



You can lock and arm your vehicle by pressing button I for 0.5 second. The siren chirps and the parking lights flash once each. Also, the sidemirror

is being folded.(Optional installation)



The remote chirps 7 times, and blinks we icon on the remote to warn that the battery of your vehicle discharges, if you lock the doors while the tail lights are turned on during arming.

1-2 Door Unlock (Disarm)



You can open and disarm your vehicle by pressing button I for 0.5 second

The siren chirps and the parking light flash twice each.

Also, the sidemirror is being unfolded(Optional installation).

The numbers of remote chirps and parking light flashes indicate the status of your vehicle while parking (Alarm



models only).

- Two chirps and two parking light flashes indicates there were no problems while parking.
- Four chirps and four parking light flashes on the remote indicates there has been an alarm during the arming stage.

▲ Note

When you open the door after the vehicle is disarmed, white LED on start button is turned on. It is turned off 25 seconds ofter the door is closed. (E.9-B only)

2. Passive

2-1 Auto Arming





- ① You can activate this function by pressing button (II+III) simultaneously for 0.5 second. Then, Icon PASSIVE appears on the LCD and this system rearms automatically.
- ② The doors are locked and rearmed 30 seconds after the engines is turned off(When the doors are closed).
- ③ During Valet mode, auto arming mode is not activated.

2-2 Manual Arming

The Icon PASSIVE disappears on LCD and doors are locked and unlocked by remote only, if you press button (II+III)



simultaneously for 0.5 second.

The doors automatically lock and arm, if you don't open the doors more than 1 minute after you disarm by remote.

3. Remote Start

3-1



Press and hold button II, for 2 seconds, the remote chirps and the parking lights flash once each. If it fails, the system automatically repeats remote start a maximum of 3 times.

When the vehicle starts, appears on the transmitter and the remaining engine running

time is displayed on the remote.

The default setting of the engine running time is 15 minutes. You can change it to 25 minutes by using optional settings.

3-2

Open the door, insert the key, and turn it to ON position (press the button until blue LED is On(**E9-B** only)) for normal driving mode.

3-3 Emergency Brake(Option setting)

Manual transmission vehicles need Reservation mode to remote start, In this case, the emergency brake must be ON.



3-4 Preventing Remote Start for your safety

The following cases prevent your vehicle from remote starting for your safety.

- 1 If trunk is open
- ② If hood is open (Exept for E9-B)
- If emergency brake is off (for manual transmission vehicles only)
- 4 If panic mode is activated
- (Refer to 'Valet')

3-5 Diagnose problems with remote start

If there is a problem in remote start, you will hear 3 chirps and the cause for the error will be indicated by the number of chirps and the parking lights flash within 3 seconds, when you try the remote start (Refer to the table).

Vehicle		Remote
Number of chirps or Park light Flash	Cause of error	Reason of fail
1	Engine on	Start
2	Key On	Start
3	Door open	Door
4	Trunk open	Trunk
5	Foot brake on	Foot brake
6	Hood open (Exept for E9-B)	Hood
7	Reservation Off (Manual transmission)	Reservation
8	Emergency brake Off (Manual transmission)	Brake



4. Start Button (E.G-B Only)

Push button Ignition ON/OFF

4-1 Ignition ON



While pressing the foot brake on, press start button for 1 secound. Also, the parking brake (Auto transmission) or the emergency brake (manual transmission) should be on at this stage. You will see the engine get started and on the button, it has the blue colored

light on (Stop).

Once you release the parking brake (Auto transmission) or emergency brake (manual transmission) to drive, the blue colored light is off.

4-2 Ignition OFF



- ① While pressing the foot brake on, press start button for 1 secound. Also, the parking brake (Auto transmission) or the emergency brake (manual transmission) should be on at this stage. you will see the engine is off and the blue Colored Light is off.
- ② In case you are not able to stop the engine due to the problem from the parking brake (Auto transmision) or the emergency brake (manual transmission), on foot brake, press start button for 4 seconds while pressing



the foot brake on. Then the engine will stop.



▲ Note

When the parking brake (Auto transmission) or the emergency brake (Manual transmission) is broken, check whethen the LED light is off (Stop). And then press the start button for about 4 seconds (while foot brake on) to start, until you confirm the engine is running.

- If you want to stop the engine while you are outside of your vehicle.
- 1) check the LED light is oFF ((stop), 2) open the door and press the button II for 2 seconds.

4-3 OFF → ACC → ON → OFF

- 1 ACC: While not pressing the foot brake, press the start button on time, the button gets the green colored light on ACC, which enables you use the air-conditioning and car audio etc.
- 2 ON: If you press one more while not pressing the foot brake, the button gets the red colored light on ON.
- 3 OFF: If you press one more while not pressing the foot brake, the button gets the light OFF.
- * To stop the engine by force : If you are not able to stop the engine by pressing button, please open and close the car door 7times during 15 seconds. Then the engine will stop.





5. Trunk Open



Press and hold button III for 2 seconds to open the trunk. Parking lights will flash twice and the siren will chirp twice.

6. Query Function

Query function allows you to check the statues of your vehicle including car battery voltage, car temperature and parking timer (it indicates how many minutes and hours have passed after the system is armed). By pressing button IV for 0.5 second, it shows the parking timer and then either car temperature or car battery voltage (the other one appears as the same button job is repeated).

Response		
Status	Remote	Siren from the vehicle
Engine Running, Armed	Be, bip Be×4	Chirp×3
Enging is Not Running, Armed	Bip Be×4	Chirp
Enging is running, Disarmed	Be, bip×2 Be×4	Chirp×4
Engine is not running, Disarmed	Bip×2 Be×4	Chirp×2

The icon and chirping sounds indicates the statues. If you are within transmitting distance to receive the signal for shock, theft and easy call function, you will receive the response shown on the table.



7. Panic Mode

Press and hold button I for 2 seconds to activate this mode. Your vehicle will lock the doors if unlocked, the siren will activate, and the parking lights will flash for 90 seconds. This function is used for warning under emergency situations, when you feel you are in danger.

Press and hold button I for 2 seconds to deactivate.

8. Mute



Press button (I+II) simultaneously for 0.5 second to enter this mode, and then on LCD is disappeared and the siren does not operate.

The siren, however, operates in other modes ((example) Panic, Shock, Theft) even in Valet mode

In this mode, Siren does not operate during arming and disarming only.

If you press button (I+II) simultaneously for 0.5 second again, [30] will appear again with siren operate.

9. Valet



Press button (I+III) simultaneously for 0.5 second to enter this mode.

The 2 features operating in valet



mode are Door lock / unlock by pressing button I and Query function by pressing button IV. (All the other functions do not operate temporarily.)

Valet mode is useful when loaning your vehicle or having it serviced (example, car wash, parking lot and auto repair shop).

Press button (I+III) simultaneously for 0.5 second again to exit

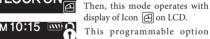


If you want to use this mode manually, insert the key into the ignition and rotate it(press the start button in **E.G-B** model) 4 times between ON & OFF for 4 times within 10 seconds.

Driving Door Lock (Ignition Lock)



Press button (I+IV) simultaneously for 0.5 second to enter this mode.



This programmable option enables your vehicle to automatically lock the doors in 30 seconds after the vehicle has

been started with a key while all the doors are closed.

On the contrary, the vehicle will automatically unlock the doors upon pulling the key out from the ignition.

Please press button (I+IV) simultaneously for 0.5 second again to exit.



11. Shock sensor by-pass

11-1



Press button (III+IV) simultaneously for 0.5 second to deactivate the shock sensor.

You can find the Icon on LCD disappeared to confirm this mode.

This function can be used, when you do not want it.

example) when you sleep in the vehicle, when baby sleeps in the

vehicle, when you let your pet stay in the vehicle.

11-2

Press button (III+IV) simultaneously for 0.5 second again to activate shock sensor.

The Icon on LCD disappears to confirm this.

If your vehicle is shocked while your vehicle is armed and the engine is turned off, your vehicle chirps and sends signal to your remote with the blinking icon on LCD.

12. Smart Door



Press button II+III for 2 seconds, then AUTO icon appers on the LCD. To cancell it, press II+III for 2 seconds once again. The doors are unlocked when the car owner





with the remote approaches the vehicle and locks the vehicle after 10 seconds when the car owner with the remote is far enough away from the vehicle.

* This function is unavailable when the door is open or the vehicle is running.

13. Reserve Time

13-1 Reserve time Change



Press button (I+III) for 2 seconds and then timer flashes.

Press button I for 0.5 second to increase "hour" and press it continually to increase "hour"

continually.

Press button II for 0.5 second to increase "minute" and press it continually to increase "minute" continually.

13-2 Reserve time ON/OFF



If you press button (II+IV) for 2 seconds after setting the timer, the display of timer does not flash to inform you that setting is complete and it displays the current time again.

In case that you do not press any button for 10 seconds, it

automatically displays the current time.



14. Turbo

14-1 (**F** 9 Model)



Press (III+IV) for 2 seconds, then the TURBO icon blinks. In this mode, engine continues to run for a selected time of 30 seconds or 2 minutes after you take the key off

from key box (you can change the setting in Option menu).

This is very useful for turbo charged vehicles to cool down

the mechanical components after driving.

14-2 (F 9-R Model)

Press (III+IV) for 2 seconds, then the icon Turbo blinks. In this mode, engine continues to run for a selected time of 30 seconds or 2 minutes (you can change the setting in Option menu). **

- * Please follow the step on the remote as above.
- While the engine is running, activate the parking brake (auto transmission) or the emergency brake (manual transmission)
- ② While pressing the foot brake on, press start button for 1 second and then release. The remote chirps and the parking lights flash once each.
- ③ The engine keeps running and the start button's LED rotates from greed->red->off.
- 4 Open the door and close
- (5) The engine additionally runs for 30 seconds (or 2 minutes, changed in option)



▲ Note

If you want immediate stop afer drive such as in gas station, please press the food brake on and press start button for 4 seconds. The engine will stop immediately.

15. Power (On/Off)

When remote is not in use for a long time, press button IV for 5 seconds to turn it off. To turn back on, press button IV for 5 seconds once again.

16. Vibration (On/Off)



Press button IV for 2 secounds(Vibration on), and press button IV for 2 seconds again to turn it off.

17. Real Time Remote Paging Functions

Owner Call, Theft report and Shock Sensing report whenever one of these is triggered, it is reported to the remote with beeps and flashing icons on LCD.

In particular, Theft is reported with continuous beeps and with one of the icons such as door, trunk and hood in



consideration that you didn't hear the beeps.

17-1 Owner Call Mode



This mode allows other people to call you by knocking 2 times on the front window of the vehicle.

You can recognize this call on your

remote with 4 times of hell sound

If you press button IV for 0.5 second to confirm it, your vehicle flashes the parking lights once.

17-2 Shock Sensing Report Mode



This function reports to your remote that your shock sensor on the vehicle has been triggered during the arming mode. When the shock sensor is triggered,

your remote makes warning sounds until you press button I to stop the warning.

17-3 Theft Report Mode



The system recognizes any theft, and activates alarm when doors open by force or with the key while the vehicle is armed.

Siren chirps and remote warns continually in theft mode.

The siren in your vehicle operates even in silent siren mode and chirps for 30 seconds.



The duration can be changed to 60 seconds on the optional setting.

Press button I to confirm and stop the report and siren.

18. Auxiliary Output (Optional Installation)

This mode is used to control (on/off) one of the various functions on your vehicle (such as convertible, sunroof, car audio, window and etc.)

18-1 Aux1



It operates by pressing II for 0.5 second and then do it again within 3 seconds to open surroof etc. To close, please do the same process once again.

18-2 Aux2



It operates by pressing III for 0.5 second and then do it again within 3 seconds to open surroof etc. To close, please do the same process once again.



19. Current time Change



Press button (I+II) for 2 seconds and then current time flashes.

Press button I for 0.5 second to increase "hour" and press it continually to increase "hour"

continually.

Press button II for 0.5 second to increase "minute" and press to cancel the setting, press button IV for 0.5 second. If you press button (I+II) for 2 seconds again after setting the current time, the display of current time does not flash to inform you that setting is complete.

In case that you do not press any button for 10 seconds, it automatically displays the current time.

20. Adjusting the sensitivity of shock sensor

Please ask your installer for the location of your shock sensor. You can adjust the sensitivity of the shock sensor by turning the knob on the shock sensor. Turn the knob on the shock sensor clockwise for higher sensitivity and counter clockwise for lower sensitivity.





▲ Note

Do not turn the knob with excessive force, or beyond its limit. Shock sensor is fragile.

Reservation mode (For Manual Transmission Vehicle)

21-1 What is "Reservation mode"?



In order to remote-start your manual transmission vehicle, you must first set up reservation mode before leaving your vehicle. The purpose of leaving the transmission

gear in the neutral position is to prevent your vehicle from moving forward while remote starting. You should set reservation mode each time you turn off your vehicle.

- 1) Important requirements to activate Reservation mode:
- 1 The transmission must be in neutral position
- (2) All doors must be closed
- ③ Do not set the reservation mode with any passengers or pets inside the vehicle
- 2) Remote Start does not operate without setting Reservation mode. If you press and hold button II to remote start your vehicle without setting the Reservation mode, remote chirps 3 times and parking lights flash 3 times. Parking lights will flash 7 times more to let you know that it failed to remote start.



RESERVATION MODE IS NECESSARY FOR YOUR OWN SAFETY.



21-2 Automatic Reservation Mode (Default Setting) (E.g.-B)

How to set Automatic Reservation mode:

- Place the transmission in neutral position before you turn the engine off
- 2 Activate emergency brake
- ③ Press the start button for 1 secound, the engine will keep running. Also the start button's LED rotates from Green→Red→Off.
- (4) Exit the vehicle and close all doors
- ⑤ The engine will automatically turn off and reservation mode is completed

The reservation mode is, however, cancelled if doors are open or valet mode is activated. Once cancelled, you have to start your vehicle with the manual key and repeat the step 1 to 5 to restore the Reservation mode.

21-3 Manual Reservation Mode (Optional setting)

Please follow the steps $\bigcirc \sim 2$ at 21-2, press the button II for 2 seconds, open and close the door. The next step is same as the rest of 24-2.

22. Easy Door Lock (option)

22-1

The door can be locked or unlocked without remote or the vehicle key. If the 4 digit password is inputted, it arms or disarms the vehicle.

10 blue LEDs display various functions: such as arming,





disarming, valet mode, and emergency status. If anyone knocks twice on the LEDs on the windshield, remote receives the call signal (optional Owner call mode).

22-2 How to input the 4 digit password

- Turn the engine off, and place the car key to the ON position. Open the door and wait until the light moves from number 1 LED.
- ② Number 1 LED will be on for 2 seconds and OFF, and it will repeat on each number from 2 to 0.
- ③ If you knock once while your desired number LED lights up, LED will flash and repeat step 2 above.
- 4 You have to repeat the step 2 and 3 for 3 more times to enter a 4 digit password.

For Example, if your desired password is 2, 3, 4, and 5, then wait until number 2 LED lights up and gently knock on the sensor. After this, number 1 LED will light up and continuously move to next number, and knock on the sensor when number 3 LED lights up. Repeat this process for number 4 and 5 to finish enter your password.

22-3 Door Lock / Unlock

- Wait, the light moves from number 1 LED during lock, unlock or valet mode.
- ② Number 1 LED will be on for 2 seconds and off, number 2 led will be on 2 seconds and off, and it will



continuously move around to 0.

- ③ Knock on the sensor once on your first digit of your password, light will flash once more to confirm the recognition.
- ④ Repeat the step 3 for your second, third and forth number of your password.
- (5) After your forth password, vehicle will lock (if it was unlocked), or unlock (if it was locked).

During Valet mode, doors can lock or unlock only.

In case that the incorrect passwords are inputted more than 5 times, Easy Door Lock will not be functional for 20 minutes.

22-4 LED Display



- ① During Arming: From (9) to (3), the 5 LEDs will sequentially flash five times left to right, and right to left (9-0-1-2-3-2-1-0-9-0). After that, LEDs will be on for 2 seconds each from number 1 to 0, and you can enter your password, while each LED is on for 2 seconds.
- ② If alarm was triggered during the arming mode, LED will flash rapidly in sequence above after the siren duration.
- ③ During the siren duration, all LED will flash simultaneously
- During disarming: (0) Led will flash five times every 3 seconds
- 5 During Valet mode: (0) Led flashes every 10 second.



23. Option Mode 2

You can make option change easily by looking at icons on display.

Button I	Option	Button II	Icon
0	Start Time	15 mins ↔ 25 mins	
1	Turbo Time	30 sec ↔ 2mins	TURBO
2	Siren Dunation	30 sec ↔ 60 sec	≯
3	Preheating Time	$4 \leftrightarrow 7 \leftrightarrow 10 \leftrightarrow 15$	

- When you press the button I for 5 seconds, the siren chirps and the parking lights flash once each.
- 2) Please press the button I for 0.5 second to move to another option
- 3) Please press the button for II for 0.5 second to change the option setting
- 4) Please press the button for III for 2 seconds to save the change. The siren chirps and the parking lights flash once each if the change is saved safely.

24. Car battery voltage check

Please press the button IV for 0.5 second to check car battery voltage. It appears every other time after inside car temperature.



25. Parking timer check

If you press the button IV for 0.5 second, parking timer (hour, minutes) appears first before car temperature, car battery voltage. it indicates how many minute and hours has passed after the system is armed.

26. Charging time alert

iw.	Normal working	
in .	The display is 50% dimmer	
N.	Button vibration not available	
Button vibration not available		
	No reception from car. Transmitting from remote is okay The display is 75% dimmer Battery shortage warning	

27. To check charging statue from the remote

 You can check the charging statue from the remote by lookin at 'CHARGED' or 'CHARGING' which lasts 4 seconds on screen wherever you plug the charging cable to the remote or unplug.





2) As for another way, if you press any button of remote and find battery icon blinks for 5 seconds.

This means the remote is not full charged.

If battery icon cloes does not blinks, that means the remote is fully charged.

28. Reset

Press the reset hole with sharp needle for 0.5 second when the remote shows some problem.





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