SMARTKEY SYSTEM

Alibaba Model : ALI-ST800

A User Guide of *Alibaba*

* Warranty services are not available if your Smart key is installed by non-qualified agencies.

For some vehicle types, costs may be added due to separate parts.

Warranty services are guarantied only if you use only DOWONTEC parts.

* The types and functions of this product can change to improve performance without any notice.

DOWONTEC

DOWONTEC

Please, read this user guide carefully, be acquainted with the instructions for right uses, and keep it for reference.

Remote Controller ⟫

Start Button ⟫

Digital Key ⟫

Experience our state of the art smart system ST800

We offer our deepest gratitude for choosing ST800
Dowon-tech products are manufactured using our latest advanced technology and highest quality control.
Dowon-tech always strive to create the best smart system in the world.
To meet the highest expectation and highest customer standards.

Dowon-tech ST800 smart system is the product with its perfected design and integrated technology. Combined integration and high end electrical components makes it the best.

ST800 is a ISO9001 certified product.

ST800 offers most secured security.

Keyless engine start button with smart keyless entry offers the convenience and luxury.
Dowon-tech smart system ST800 is the future of smart system.

Please, read "Warnings and Instructions for Safety" before use.
This user guide includes a product warranty.

▶ Warning Signs

<table>
<tr>
<td>⚠ **Danger**</td>
<td>This sign informs you of supplementary descriptions and instructions. You must observe the instructions while handling the product.</td>
</tr>
<tr>
<td>⚠ **Warning**</td>
<td>User must comply with danger instructions to avoid any possible damage to property and any possible accidents may occur.</td>
</tr>
<tr>
<td>**Notice**</td>
<td>If you do not observe this warning instructions, this may cause human accidents such as death, serious injury or damage to property.
Kindly observe and follow the instructions.</td>
</tr>
</table>

⚠ Danger

▶ This manual is used only as a guidence, vehicle owner shall be liable for all the responsibilities, and the company shall not be responsible for any losses or damage thereof, and all types of criminal and civil charges.

▶ This factory passcode is programmed on every ST800.

▶ Kindly regenerate your own passcode after installation to maximize your vehicle security.

▶ Do not operate remote engine start feature or turbo timer feature.

▶ While inside the car. This may cause sudden engine stop.

▶ To fully utilize the Smart keyless entry feature, owner must carry ST800 smart key fob at all times.

▶ ST800 is prone to heavy impact, in case of car accidents, malfunctions, kindly visit your nearest dealer of installer to utilize your warranty and A/S.

▶ If any problem occurs due to improper installation of ST800.

▶ The actual installer will be held responsible. The customer must read and double check.

▶ The warranty service from customer warranty card.

▶ Customer must test every feature to make sure the installation was done correctly and to make sure every feature is usable. If you locate any feature not working kindly take it to the nearest dealer.

▶ ST800 is not designed to be water proof, avoid any liquid contact with ST800 main unit and remote.

▶ Keep away the remote controller from children and infants so that they can not operate.

▶ Do not use a genuine alarm basically installed into you car along with this product.

▶ Do not use this product for the purposes other than uses described in this user guide.

▶ For warranty services, visit the dealer where you purchased this product, or warranty service agencies nationwide regardless of payable or free service.

⚠ Warning

▶ Make sure this product is installed by the installers DOWONTEC/VOLTLINE Co., Ltd. certifies and designate.

▶ This guide for a user and installment includes remote operations, 24 hours-start reservation, digital shortcut keys- start.

▶ If you do not observe the following instructions, it is very dangerous since your car can move during remote-start and turbo start.

  * For a manual transmission vehicle, if its engine starts not in a state of [N], the vehicle may rush forward/ backward, make sure to check up the following instructions.

> **Check 1 : Remote Start Reservation**   (Refer to 12P)
> Check up whether the engine stops after the following procedure: Touch the button when you get off your car after driving in state of TURBO OFF, check up the engine operating display in a state of POWER OFF (Red Window OFF, Text Window OFF at high speed), make sure the gear is located in "N"(Neutral)," operate the parking brake, get off your car, close the door from the outside, and check up the engine stops when you enter ALERT(DOOR LOCK)
>
> **Check 2 : Door Detection State**
> Enter ALERT using the remote controller, open all the doors, check up whether WARNING function normally works.

* In case your car is a manual transmission one, make sure to cancel REMOTE CONTROL RESERVATION when you park in a state of other gear locations, not N(Neutral).   (See 12P)

* In case your automatic-transmission car starts not in a state of "P" and "N," check up your car the same as the manual transmission car.

* Do not shift the transmission gear in your car in a state of remote-start reservation.

▶ In case of a manual transmission car, make sure the "L" terminal of the generator detects START ON , and you set up your car in "L" terminal.

▶ For your safety, do not try REMOTE START at the slope place.

▶ When you use a turbo function, make sure your car does not move and you do not shift the transmission gear since START has been set up more than 1 minutes after driving.

▶ For safe use, when you entrust, or transfer your car to other persons, make sure you car is in a state of SYSTEM OFF—all functions of the system stop. (See 10P)

▶ When you transfer your car with this product installed, make sure to hand in the remote controller and user guide to a transferee. The transferee ensures that the car is checked at warranty service agencies nationwide. Read this user guide carefully for safe uses.

Smat Key (LFID) System?

Whining proximity to your vehicle, the smart fob will wirelessly communicate with the main unit of ST800 using LFID (Low frequency identification) and deactivate your security system, unlocking the doors. After you have entered your vehicle, the immobilizer bypass module will send a signal to your factory immobilizer unit, allowing the vehicle to be started with a push of a button.

Dowon-tech smart system ST800 Alibaba

Perfect harmony of "keyless go" and "keyless smart entry" smart system

* Keyless Go : Push the engine start button to ignite your engine without having to use your key.
* Keyless Enter : Automatically Lock/unlock your vehicle provided with a smart key fob within proximity range.

Dowon-tech ST800 smart system is created by our DW-tech elite team using our most advanced technology. We have designed the masterpiece smart system that offers most convenient luxury features such as keyless go and smart entry. digital key feature.

ST800 is designed from customer prespective.
ST800 can finish the job, allow ST800 alibaba to do the rest.

Make use of digital key entry system to utilize all the features ST800 has to offer without using the smart key fob.
Now you can use ACC / KEY ON, and KEYLESS GO with our super slim push start button.

Experience our revolutionary smart system ST800.
The complete new concept smart system.

Dowon-tech Alibaba ST800

Smart Remote FOB

Slim Keyess Push Botton

Digital Speaker

Digital Key Pad

LF Antenna

RF Antenna

Shock Sensor

Wire and Harness

ST800 Smart MainUnit

User Guide And Installation Manual Wiring Diagram, Smart Function Card

[Table of Operations by the Remote Controll]

N/O	Operation	Operation Condition	Operation by the Remote Controller Key
1	Door Lock	–	🔒
2	Door Unlock	–	🔓
3	Door Open	–	⚡~
4	Engine Start On/off	–	⚡~
5	Emergency Siren	–	🔒~
6	Car State Check	–	🔒~
7	Car No Sound	–	🔒 + 🔒
8	System Stop	–	🔒 + ⚡
9	Smart Pause	–	🔒 + ⚡~
10	Turbo Operating	–	⚡ + ⚡~
11	24 Hours–start Reservation	–	🔒 + ⚡~
12	Manual Transmission–Remote Manual Reservation	Before Engine Off	⚡ + ⚡
13	Aux 1 Operating	When Installing Options	⚡ / ⚡ (Double Click)
14	Aux 2 Operating	When Installing Options	⚡ / ⚡ (Double Click)
15	Password Initializing	After Opening The Door	🔒 + ⚡~ / ⚡~
16	Digital Key Detection Control	After Opening The Door	🔒 + ⚡~
17	Smart Communication Test	Under Smart Communication	🔒 + 🔒~
18	Smart Speed Adjustment	Desired Speed	⚡~

(+)Simultaneous Press, (~) Press More Than 2 Seconds, (–),(/) Next Key Operation

1). Alert Entry [Door Lock] 🔒

Keyless Entry Function : The doors are locked in a state of POWER OFF when you carry the remote controller, and when you are away from your car, the doors are automatically locked and the car enters ALERT.

Remote Controller Press Alert : Shortly press LOCK button in a state when the doors are locked, and the doors are locked and the car enters ALERT.

Response : (Flickering 1 time / Siren 1 time / Lock Melody~↘)

Alert

The display for alert state will flash digital key installed insde your vehicle. which means your vehicle is in impact detecting state.
This will sense any impacts coming from outside and force entry.

Intrusion Detection

ST800 will detect any unlock with out using the authorized remote If anyone teies to open the door without the authorized remote the digital siren and indicator will operate for 30seconds even when you have turned off the siren.

Intrusion Detection

Whenever your vehicle detects any impacts in a state of ALERT, the digital siren and indicator will operate for 10 seconds.
When you have set the smart features and vehicle sound off feature only the indicator will flash without any siren.

Warning Cancellation

If you press LOCK button when the siren operates due to impacts and intrusions, the siren stops and the doors are locked.

Notice * (Smart Key–Reminding Function) Even if you close the doors outside or inside you car where Smart Communication system is connected, the doors are automatically unlocked if the Smart Communication is maintained for more than 15 seconds.

* If you touch ENT on your digital car key after SMART PAUSE or SMART OFF, the doors are locked even through there is a remote controller inside your car and you car enters ALERT. (See 11P)

⚠ Danger

* If you close the doors in a state when they are opened, your car cannot enter ALERT, in which case the siren and flashing light operate 3 times.
* If you close the door in a state when initial password has been set up, the alarm and flashing light operate 5 times (Make sure to change the password of your digital key before use).
* If you do not cancel ALERT after installing this product and using the genuine remote controller, the alarm operates when you open the door right using this product after a car is delivered.

2). Alert Cancellation [Door Unlock] 🔓

Keyless Enter Function [Keyless Enter] : If you assess your car after carrying the remote controller, since ID certification is automatically processed, ALERT state is cancelled, and the door is opened.

Remote controller Press Alert : Shortly press LOCK button in a state when the doors are locked, and the ALERT state is cancelled and the doors are unlocked.

Response : (Flickering 2 times / Siren 2 times / Unlock Melody~↗)

Alert Cancellation

It is possible to see there were the following states depending on the number of operations of the siren and blinker as Door Lock is cancelled.

* 2 times : There were no problems during parking.
* 4 times : There were impacts and door open during parking.

Alert Restoration

If the door is not opened (no-board) after 30 minutes pass in a state of Alert Cancellation, the door is automatically locked, and restored into alert state.

3). Trunk Open ✋~

If you press TRUNK button more than for 2 seconds, the truck is opened.

Response : (Blinker 2 times / Siren 2 times / Open Melody-~↗)

---

* If you open the trunk using the trunk button in a state of Alert, the temporary alert is cancelled, and if closing it, you car automatically enter Alert.
* A cable-typed trunk, not an electric button-one, is impossible to operate in this system.
* Since the work for the trunk detection line is optional, working expenses are added.

4). Remote Start ⚡~

REMOTE START ON
If you press the REMOTE button for more than 2 seconds, the engine will start after warming-up time.

Response : (Blinker 1 time / Siren 1 time / Start-completed Melody~~↗)

⚠ Warning

* To drive your car in remote control, step on the brake, make sure to check up the state of POWER ON using START button (red window on and off), and maintain this state.
* When operating a car in remote start, make sure a user dose not shift the transmission gear into other states (states not in Neutral).

REMOTE START OFF

If you press REMOTE button again for more than 2 seconds in remote start, the engine stops.(In this case the remote start reservation for a manual transmission car is maintained)

Response : (Blinker 2 times / Start-completed Melody~~↘)

START OFF outside for a Parked Car

If you press REMOTE button for more than 2 seconds in a state of parking gear after driving your car, the engine stops. Then, the door is locked, and you car automatically enters Alert.

Response (Blinker 2 times / Start-completed Melody~~↘)

Remote Start Failure-Response

Siren	Blinker	Cause
3 times	1 time	Engine Starting using the Genuine Key
3 times	2 times	Genuine Key ON
3 times	3 times	Door Open
3 times	4 times	Trunk, Hood Open
3 times	5 times	Parking not Detected
3 times	6 times	Engine Start Impossible
3 times	7 times	Manual Transmission Car not Reserved

5). Emergency Siren 🔒~

If you press LOCK button for more than 2 seconds, the door is locked, and the siren and blinker operate for 30 seconds.
In case of Vehicle Sound OFF also, the siren operates for 30 seconds during self-emergency.

Notice   This siren is an assistant means you can use when you feel a threat to your own safety, and you look for your car in parking lot.

6). Car State Check 🔒~

If you press UNLOCK button for more than 2 seconds, the siren and blinker flicker. The number of flickerings tells you the state of your car.

Siren	Blinker	Car State
3 times	3 times	Remote, Turbo ON/ALERT
1 time	1 time	Remote, Turbo OFF/ALERT
4 times	4 times	Remote, Turbo ON/ ALERT Cancelled
2 times	2 times	Remote, Turbo OFF/ ALERT Cancelled

7). Vehicle Sound OFF 🔒+🔓

Vehicle Sound OFF Setting (No Siren / Melody)
If you shortly press LOCK button and UNLOCK button at the same time, Vehicle Sound OFF-Function is set up.   **Response : (Blinker 1 time)**

Vehicle Sound OFF - Cancelation
If you shortly LOCK button and UNLOCK button again at the same time, Vehicle Sound Offfunction is cancelled.
Response : (Blinker 2 times / Siren 2 times)

When a stop function of the following system is recovered, the set non-sound function is also be canceled.

8). System Stop 🔒+⚡

System Stop Setting
If you shortly press LOCK button and REMOTE button at the same time, SYSTEM STOP function that stopping all the functions of the alarm is set up.   **Response : (Blinker 1 time / Siren 1 time)**

* In this case all the functions of the remote controller except for LOCK and UNLOCK functions stop.

System Stop Cancellation
If you shortly press LOCK button and REMOTE button again at the same time, SYSTEM STOP function is canceled and all the functions are restored.   **Response : (Blinker 2 times / Siren 2 times)**

* During SYSTEM STOP cancellation, all setting states are restored into the ones before SYSTEM STOP, and in a state when the doors are locked, your car automatically enters ALERT.

⚠ Danger

* In case you entrust your car to other persons, make sure you set up into SYSTEM STOP to prevent accidents due to inexperienced manipulation.
* In a state when being set up into SYSTEM STOP, the alarm does not operate even if forced entries or impacts occur.

9). Smart Pause 🔒+⚡~

Smart Function Pause Setting
If you press LOCK button and REMOTE button for 2 seconds at the same time, SMART function temporarily stops.
Then, if you cancel ALERT using the remote controller, SMART function automatically is restored.   **Response : (Blinker 1 time / Siren 1 time)**

Smart Pause Function Cancellation
If you press LOCK button and REMOTE button again for 2 seconds at the same time, smart function pause is cancelled.
Response : (Blinker 2 times / Siren 2 times)

10). Turbo Function 🔧+⚡~

Turbo Function Setting
If you press LOCK button and TRUNK button for 2 seconds at the same time, TURBO function is set up.
Since TURBO function detects parking, it operates only while you drive your car. This function is provided to automatically stop the engine after idling during the turbo time set up from the time you touch ENGINE button.   **Response : (Blinker 1 time / Siren 1 time)**

⚠ **Warning**

* To drive your car again in TURBO START, step on the brake, make sure to check up the state of START button ON (red window on and off), and maintain this state.
* When you set up TURBO function, make sure your car does not move since START is maintained during set-up time even if a user touches ENGINE button after driving, and do not shift the transmission gear into other states (states not in Neutral).

Turbo Function Cancellation

If you press LOCK button and TRUNK button again for 2 seconds at the same time, TURBO function is cancelled.

Response : (Blinker 2 times / Siren 2 times)

11). 24 Hours-Interval START Reservation 🔓 + ⟿~

24 Hours Start Reservation Setting

* To use this function, set up the time you want into the current time in setting up the digital key. (See 23P)
* If you press LOCK button and REMOTE button for more than 2 seconds at the same time, 24 hours-start reservation for starting the engine at the desired time is set up.
* However, a manual transmission vehicle operates only if Remote Start is reserved.

Setting Display : (Status on and off 2 times in a state of ALERT)
Response : (Blinker 1 time / Siren 1 time)

24 Hours-Start Reservation Cancellation

* If you press LOCK button and REMOTE button again for more than 2 seconds at the same time, 24 hours – start reservation state is cancelled.
* Even if you cancel reservation start, the set up time is not deleted. Make sure the complete cancellation is conducted in digital key setting.
Response : (Blinker 2 time / Siren 2 times)

12). Manual Transmission Vehicle [Remote Start Reservation]

Automatic Reservation (How to set up) Cancellation

Step 1 : Shift the transmission gear into N before ENGINE OFF

Step 2 : Touch START button, and turn off the vehicle power. However, the engine continuously operates.

Step 3 : Get off your car in 1 minutes, and close the doors. If the remote controller is away (Smart Set-up) or you lock the doors, the remote-start reservation is set up.

Manual Reservation (How to set up) 🛵 + ⟿

To set up manual reservation, before vehicle POWER OFF after the 1st step, shortly press TRUNK button and REMOTE button at the same time.
Then, the blinker and siren operate 1 time.
Touch START button in 5 minutes and turn off vehicle power.
Apply the same steps as the automatic reservation.

Remote Start Reservation (How to cancel)

* If you press REMOTE button of the remote controller for more than 2 seconds before opening the car door, the engine stops and the reservation is cancelled.
* If you open the doors, hood, and trunk (option) of your car after Remote Start Reservation is completed, the reservation is cancelled.
* If you set up SYSTEM STOP, the reservation is cancelled.

⚠ **Warning**

Since your car can move at slope places, make sure to cancel remote-start reservation.

1). ACC 〉 KEY ON 〉 OFF Power Switch

Keyless Go : To enter vehicle power when operating your car using the button, carry the remote controller so that ID certification of the smart remote controller can be processed.

In a state of not stepping on the brake	Button touch 1 time	ACC ON 〉 Blue Window On and Off
	Button touch 1 time	KEY ON 〉 Red Window On and Off
	Button touch 1 time	ACC, KEY OFF

Notice
* In the initial state after installing the product, SMART function has been set up.
* If you operate the button or brake in a state of not carrying the remote controller, the warning sound is generated .
* When touching ENT after inputting a serial number, the button operation is available within 15 seconds. In case of radio trouble and losing a remote controller (e.g.: military zone/missing a remote controller), use it.

2). Automatic Engine Start

| *(P) Parking Gear *Step on the Brake | Button Touch 1 time | Engine Start 〉 Red Window On and Off at High Speed | Engine Start Completed 〉 Red Window On and Off Maintained |

* To execute Automatic Start, check up ID certification state, and automatic recognition of warming-up state of LPI or diesel engines. (Automatic Recognition Process 〉 Red Window On and Off)
* If you touch the button again while executing Engine Start, the engine stops.
* If you touch the button for long for the button operation, you can operate it as long as pressing START button. (Convenient for cold start)

⚠️ **Warning**
* Make sure to step on the brake for your safety until the engine start is completed when you executing automatic start.
* Before automatic engine start, make sure to confirm the gear states of (P) and (N).
* For automatic engine start of a manual transmission vehicle, make sure to shift the transmission gear into (N), or to step on the clutch.

3). Forced-Engine Start

This function allows you to operate Engine Start using the button only. If you touch the button for more than 4 seconds, the forced-engine start is executed.
In this case, make sure you touch the button for long until the engine start is completed.

⚠️ **Warning**
* For your safety when executing Engine Start, make sure to step on the brake until the Engine Start is completed.
* Before Engine Start, make sure to check up the gear state of (P) and (N).
* For automatic Engine Start of a manual transmission vehicle, make sure to shift the transmission gear into (N), or to step on the clutch.

4). Engine Stop

Engine stop operates on the conditions of parking gear (P) and neutral (N). The vehicles in which (P) and (N) are detected through the parking detection line can operate in even neutral gear transmission (N).

| (P) Parking Gear | Button Touch 5 times | Engine Stop 〉 Red Window On and Off |

5). Forced-Engine Stop

This function allows you to stop the engine even in a state of R, N, or D running, not a parking transmission gear (P).
In case of emergency or for parking in a row, you can turn off the engine in a state of neutral (N), using this function.
If you touch the button for more than 4 seconds stepping on the brake, the engine stops.

6). Glow Coil, LPI Detection before Start

During automatic-start, this function generates Start after detecting real warming-ups on diesel and LPI vehicles.

* The above states are directly detected on the instrument board, and this function is applied to diesel and LPI vehicles only(NO applicable to gasoline vehicles).
* Some vehicles are not available to the detection. In this case, designate warming-up time before Start in setting the digital key. **(See 26P)**

7). ACC Power Door cut

Even after the engine stop, the ACC power remains for one minute, which is a function to have sufficient time so that the related electric outfitting device can be protected and the electric outfitting device after getting off can be controlled.

In addition, it is a convenient function since it helps get off your car at dark places. This function operates only after the engine stops, which is used to open the door for you to get off. The ACC power is automatically turned off y by the button operation.

| ACC Pause State after the Engine Stops | ➡ | Door Open, or Button Touch 1 time | ➡ | ACC OFF |

Notice   It is possible to set up and cancel this function.   **(Installment Guide 8P)**

8). Remote Start–Auto–Maintenance Function

This function is designed to automatically maintain Start only if you step on the brake when you operate a car by Remote, or Turbo Start.

| Remote Starting Turbo Starting | ➡ | Step on the Brake after getting into the Car | ➡ | Check up Red Window On and Off | ➡ | Vehicle Running is Available |

* When you get off the vehicle in which a turbo function has been set up and the manual transmission vehicle in which remote reservation has been set up, touch the button, and make sure to check up the engine operation (red window on and off, text window on and off at high speed) in a state of POWER OFF.

⚠ **Warning**

To operate the vehicles which are starting by Remote, or Turbo Start, step on the brake, check up the state of POWER ON of the button(Red Window On and Off), and maintain this state.
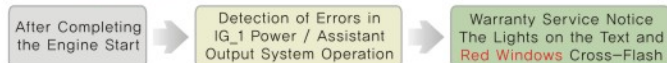
9). Manual Key Operation

The system of this product is designed to operate the engine with the genuine key in case of emergency, and to let the genuine key operate, cancel ALERT, and turn the key the same way as a vehicle is delivered.

10). Self–Diagnosis

For safe drive, the output system of this product is equipped with the assistant output one built in.
When the assistant output system operates, the lights on the text window and red window cross–flash.

| After Completing the Engine Start | ➡ | Detection of Errors in IG_1 Power / Assistant Output System Operation | ➡ | Warranty Service Notice The Lights on the Text and Red Windows Cross–Flash |

⚠ **Danger**

If the light continuously cross–flashes, the assistant output system operates and informs you of the need of warranty services. In this case, stop driving your car, and request warranty services.

11). LED Displays on the Button Window

Button LED Display Window	Operation Status
All Lights–out	Enters the alert state (Do not use the buttons)
	Warning occurs (Do not use the buttons)
Text Window's Light–out	Buttons allowed (Carry the remote control with you when setting up SMART)
Blue Window's Light–out	ACC ON
Red Window's Light–out	KEY (IG–1) ON
Text Window's Light–out	In a state of stepping on the BRAKE (Auto–Start allowed)
Red Window's Light–out at High Speed	In a state of progressing with "START" (In the process of observing all conditions for START)
Red Window's Light–on after Light–out at High Speed	"START" completed (The engine operating)
Red Window's Light–on and Texts–out	In a state of running (Selection of functions available)
Text Window's Light–out at high speed	Remote Control and Turbo Start Operating (Lights–out after Entering ALERT)
The Lights on Text and Red Windows Cross–Flashes	Notices the Necessity of Warranty Services

Digital Key Technology

The digital key is installed inside vehicle glasses and designed as a touch type for detecting a human body and for easy installment.

This technology is an innovative one that allows you to easily operate your car using one digital car key for a shortcut key function, and to select specific functional programs in all functions for various settings.

How to Operate a Digital Shortcut Key
[After recognizing Smart Communication]

* Smart function is set up, and the operation is available if you carry the remote controller with you.
* This function is very convenient since you can perform a variety of operations such as remote start on/off, and door lock/unlock, as well as you can operate the trunk without a remote controller.

1). Door Lock

If you touch [ENT] in a state when all doors are locked outside your car and lock devices are cancelled, the doors are locked and your car enters ALERT.

2). Door Unlock

If you touch [ENT] again with the remote controller, the doors are unlocked again and the alert state is cancelled.

3). Remote Start ON/OFF

If you touch [A] → [ENT] with the remote controller in a state of parking gear and when all the doors are locked, remote start operates.
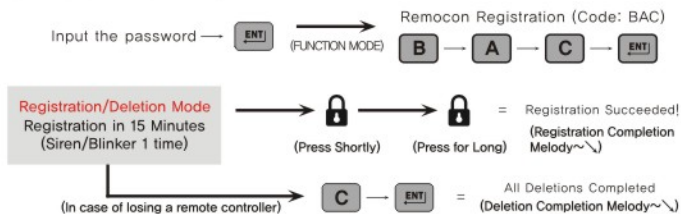
If you touch [A] → [ENT] with the remote control in a state when Remote and Turbo Starts have been set up, Engine Start turns off.

4). Trunk Open

If you touch [B] → [ENT] with the remote controller, the trunk is opened.

How to Register the Remote Controller

It is possible to register 3 remote controllers to the maximum.
When the product is manufactured, the initial password is designated to be 1111~4 digits. When you register a remote controller, pass the password in a state of Vehicle Power OFF. When you lose a remote controller, the function to delete all-registered remote controllers is provided. Please, read through the following method for registering and deleting a remote controller for safe use.

Input the password → [ENT] (FUNCTION MODE) → Remocon Registration (Code: BAC) [B] → [A] → [C] → [ENT]

Registration/Deletion Mode
Registration in 15 Minutes
(Siren/Blinker 1 time) → 🔒 (Press Shortly) → 🔒 (Press for Long) = Registration Succeeded! (Registration Completion Melody~\)

(In case of losing a remote controller) → [C] → [ENT] = All Deletions Completed (Deletion Completion Melody~\)

* To register a remote controller additionally, press all LOCK buttons 1 time, respectively, which you will use in registration/deletion mode stage, and press the remote controller that you registered last again.

Notice If you register the remote controller gain, the data of the remote controller registered is automatically deleted.

Digital Key Sensitivity Setting 🔒 + ♒ ~

* After installing the digital key, it is possible to set up the touch sensitivity depending on the thicknesses and elements of vehicle glasses.
* When the product is manufactured, the touch sensitivity is set up into 4 steps.
  1. On the condition of Vehicle Power OFF and in a state when the doors are opened, it is possible to set up the sensitivity of the digital key using the remote controller only.
  2. If you press OPEN button and TRUNK button for more than 2 seconds at the same time, the siren and blinker flicker 1 time and your car enters set-up mode. In this case, if you press the below buttons for 0.5 seconds in 30 minutes.

  🔒 1 step : touch sensitivity (strong)   ⚡ 2step   ⚡+♒ 3step   ♒ 4step   🔒 5step(weak)

  3. and press OPEN button and TRUNK button for long for more than 2 seconds at the same time, the set-up of touch sensitivity is completed.
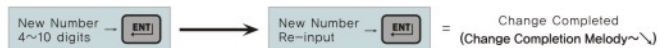
(Sensitivity Set-up Melody~\)

Password Change

For the safety of your valuable car, make sure to change the password after installing the product.
When you designate new password, it is possible to use 4 ~ 10 digits. The installer must inform a user of the method for changing the password so that he can change it himself. Please understand the following method for changing to change the password with the numbers that only you know by selecting as many as digits.

> When the product is manufactured, the initial password is designated into 1111 —4 digits.
> To change the password, you need to pass the initial password. Thus, there is no need to carry the remote controller with you. Change the password in a state of Vehicle Power OFF.

1. To change the password, make sure to enter FUNCTION MODE after passing the initial (previous) password.
2. If you touch PASSWORD CHANGE(code: CAD) and ENT after entering FUNCTION MODE, you will enter CHANGE MODE.

(1111) Input the Initial Password + [ENT] (FUNCTION MODE) → C → A → D → [ENT] (CHANGE MODE entered)

New Number 4~10 digits → [ENT] → New Number Re-input → [ENT] = Change Completed (Change Completion Melody~↘)

3. If you touch only ENT when input errors occur while changing the password, or after completing CHANGE, the current step returns to the previous one.
4. When an error is made more than 5 times while you change the password, the digital key stop operating for 2 minutes.

Password Initializing

This function is needed when you don't remember the password 🔒+🔑~

1. The initialization of the password is available using a registered remote controller only.
2. This password initialization is available in a state of Vehicle Power OFF and on the condition that the vehicle doors are opened.

If you press LOCK button and TRUNK button for more than 2 seconds at the same time after you open the vehicle doors, the siren and blinker blink 1 time.
Then, if you press Ⓢbutton for long for more than 2 seconds in 3 seconds, the password changes into the initial one 1111 with success melody.
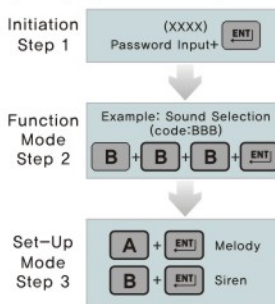
(Initialization Success Melody ~~↗)

How to Set Up and Operate the Digital Key

When the product is manufactured, the initial set-up values have been set up to be applied to vehicles. For the convenience use, read trough the following directions for use. Since this set-up is used after the password is certified, it has nothing to do with carrying a remote controller.
Set up the digital key in a state of Vehicle Power OFF.

1. To set up all individual functions, make sure to pass the password ad enter FUNCTION MODE.
2. To enter SET-UP MODE, refer to the table of digital key functions after entering FUNCTION MODE, touch 3 digits – alphabet code of the function to be set up in order.
3. If you touch the function you want in SET-UP MODE, and press ENT, set-up is completed.
4. As the set-up is completed, the current step automatically returns to the function mode. In this case, it is possible to enter other SET-UP MODE without inputting the password.

[Example] How to Set up Sounds using the Digital Key

Initiation Step 1: (XXXX) Password Input+ [ENT]

Function Mode Step 2: Example: Sound Selection (code:BBB) B + B + B + [ENT]

Set-Up Mode Step 3: A + [ENT] Melody / B + [ENT] Siren

Returning to the Previous Step
* Touch ENT
* When 30 minutes pass in each mode, and in case of DOOR LOCK, OPERATION, VEHICLE POWER ON, the current step returns to the initial step prior to the password input.

LED Indication of Set up States
* To Indicate Function Mode : Maintain LED Lighting
* To Indicate Set-Up State in Set-up Mode : Check it up through LED Light On and Off
Example : Light O and Off at the Interval of 2 seconds in the order of Set-Up A 1 time/Set-Up B 2 times

Notice In Set-Up Mode, there is a wide selection function to choose from A to E. Refer to the Table of Functions(I , II)

Registration after Installment [Use it after inputting the password] (See 19, 20P)

N/O	Set-Up Segment	Alphabet Code after passing the Password	Set-Up A-ent	Set-Up B-ent	Set-Up C-ent	Set-Up D-ent	Set-Up E-ent
1	Function Initiating	D–A–E–ent	User Initiating		Total Initiating		
2	Remocon Registration	B–A–C–ent			Deletion of All-registered Remote Controllers		
3	Password Change	C–A–D–ent	(Initial Password : 1111) Changed Password: Possible to input 4~10 digits				
(Indication of Status)	Light On and Off		Light On and Off at High Speed				

Table of Functions (I)

Functions Set-Up by a User
(Set it up after inputting the password using the digital key)

N/O	Set-Up Segment	Alphabet Code after passing the Password	Set-Up A-ent	Set-Up B-ent	Set-Up C-ent	Set-Up D-ent	Set-Up E-ent
1	Smart Set-Up	A-E-A-ent	36 hours-Smart	48 hours-Smart	ENT Smart	Automatic ALERT in 30 minutes	Cancelled
2	Smart Warning Sound	B-B-D-ent	Set Up	Cancelled			
3	Remote Start Time	C-E-C-ent	20 minutes	10 minutes	3 minutes		
4	24 Hours-Reservation Time	E-E-E-ent	Cancellation	Current Time			
5	Turbo Operating Time	B-D-B-ent	1 minutes	2 minutes	3 minutes	5 minutes	Cancelled
6	Alert Restoring Time	D-C-D-ent	30 seconds	2 minutes			
7	Siren Output	A-B-A-ent	30 second	60 second			
8	Sound Selection	B-B-B-ent	Melody	Siren			
9	Button Lighting	E-A-E-ent	Light Off	Light Off			
10	Rapid Speed Reduction-Light On and Off	E-B-E-ent	Cancellation	Set-Up Step 1	Set-Up Step 2	Set-Up Step 3	Set-Up Step 4
11	Door Open Indication	C-C-E-ent	Cancellation	Set Up			
12	Vehicle Sound Off	E-D-E-ent	Cancellation	Set Up			
13	System Stop	C-C-B-ent	Cancellation	Set Up			
Indication of States		Light On and Off	Light On and Off (Initial Value)	Light On and Off 2 times	Light On and Off 3 times	Light On and Off 4 times	Light On and Off 5 times

1). SMART Setting (A-E-A-ent)

* Keyless enter of SMART functions : It's possible to designate the operation -waiting time of this function as 36/48 hours.
* ENT SMART : The waiting time is cancelled and it is a SMART function which makes the vehicle entering possible through touching 'ent'.
* Automatic alarming after 30 seconds : The function after SMART can be cancelled and it's a function that the door is automatically locked 30 seconds after getting off.

Notice After the waiting time of 36 or 38 hours, it's possible to unlock a door with a remote controller or to enter the vehicle through touching the 'ent' of digital key.

---

2). Smart Warning Sound (B-B-D-ent)

* In a state when Smart function is set up and the door is opened, if Smart Communication is not certified when you use Vehicle Power with the remote controller away or without carrying the remote controller, warning sound is generated 3 times.

3). Remote Start Time (C-E-C-ent)

* Set up start-maintaining time when you start the engine using the remote controller or digital key outside.

4). 24 hours-Reservation Time (E-E-E-ent)

* Using this function, designate the time to start the engine at the same time everyday
* The time designated once is maintained till it is deleted, and you can select the use of this function using the remote controller. (See 12P)
[Example] If you touch Current Time on the digital key, the engine automatically start at 7 AM from the next morning.
* Start-maintaining time depends on the length of time for Remote Start.

5). Turbo Operation Time (B-D-B-ent)

* Using this mode, set up turbo start-maintaining time when turbo-function operates
* In case of a vehicle(diesel engine, etc) in which a turbine has been set up, this mode allows you to set up the time so that the engine can stop after regular time passes, not stopping right away.

Notice Turbo function recognizes parking and operates only after your car runs.

6). Alert Restoration Time (D-C-D-ent)

* If you do not open the door of your car, the sensor judges it to be no-riding and your car enters Alert. This mode allows you to set up the time to return to entering automatic alert.

7). Siren Output (A-B-A-ent)

* This mode allows you to set up the time of the siren operating when an alarm occurs due to impacts on or intrusions into your car.

8). Sound Selection (B–B–B–ent)

* This mode allows you to select a melody and a siren as a response sound.

9). Button Light (E–A–E–ent)

* This mode allows you to designate the text light of the button so that you can turn off it, or maintain the light–off.

10). Rapid Speed Reduction–Light Off (E–B–E–ent)

* This function allows you to prevent accidents with the emergency light automatically turned off 5 times when you step on the brake and the speed rapidly decreases.
* You can designate rapid speed reduction by steps depending on the difference in speed pulse.
  Step 1 : Little difference in speed reduction ~
  Step 4 : Big difference in speed reduction

Notice This function (speed detection) requires optional wiring work.

11). Door Open Indication (C–C–E–ent)

* You can set up the function telling you the door is being opened around with the emergency turned off 2 times when you open the door.
[Example] This function allows you to prevent accidents by informing the motorcycles and vechicles around that the door of your car is opened with the emergency turned off.

12). Vehicle Sound OFF (E–D–E–ent)

* This mode allows you to set up all sounds to turn off except for siren generation when warning occurs.

Notice In this function set–up and restoration are available with the remote controller.

13). System Stop (C–C–B–ent)

* This function allows you set up and restore the function for stopping all systems.

Notice It is possible to set up and restore this function using the remote controller.

Table of Functions (Ⅱ)

Program Set Up by an Expert
(Set it up after inputting the password using the digital key)

N/O	Set-Up Segment	Alphabet Code after passing the Password	Set-Up A-ent	Set-Up B-ent	Set-Up C-ent	Set-Up D-ent	Set-Up E-ent
1	Start Detection Selection	C–C–A–ent	L Terminal (Medium)	L Terminal (Upper)	Imaginary Recognition	Voltage Increase (Medium)	Voltage Increase (High)
2	Warming – Up before Smart	C–D–C–ent	0,8 seconds	3 seconds	5 seconds	10 seconds	0,4 seconds
3	Start Output	A–D–A–ent	4 seconds	3 seconds	2 seconds	1 seconds	5 seconds
4	Start Reverberation	D–E–D–ent	0,2 seconds	0,4 seconds	0,8 seconds	0 seconds	0,1 seconds
5	Key Insertion Output	D–C–E–ent	0,2 seconds	0,4 seconds	0,8 seconds		
6	Key Stripping Output	B–E–B–ent	0,2 seconds	0,5 seconds	1 seconds		
7	Manual Transmission –Remote System	D–D–D–ent	Automatic Reservation	Manual Reservation			
8	Door Lock during Running	B–C–B–ent	Cancellation	P Unlock	D Lock + P Unlock	S Lock + P Unlock	S Lock + Key Unlock
9	Door Detection Selection	B–E–C–ent	Door Pin Detection	Indoor Light Detection			
10	Imaginary Door Output	C–B–D–ent	In 1 seconds	In 2 seconds	In 3 seconds	In 4 seconds	In 5 seconds
11	Trunk Output	C–C–D–ent	0,8 seconds	4 seconds			
12	Blinker Output	D–B–D–ent	Normal	Quickly			
13	AUX 1 Output	B–A–B–ent	In 0,8 seconds	3 seconds	7 seconds	Black Box	Escort
14	AUX 2 Output		In 0,8 seconds	3 seconds	7 seconds	연속	Gear Cutoff
15	Alert Entry Time	D–A–C–ent	In 1 second	In 5 seconds	In 15 seconds	In 30 seconds	In 60 seconds
16	Part Start Cutoff	D–C–C–ent	Cancellation	Set-Up			
17	Lever Pressing Output	E–C–B–ent	Cancellation	Set-Up			
18	Remote Relock	C–C–C–ent	Cancellation	In 2 seconds	In 3 seconds	Start In 2 seconds	Start In 3 seconds
19	DOWONTEC Output	E–C–E–ent	Cancellation	In case of using Power	In case of cancelling Alert	Remote controller operation	In case of door–unlock
20	Door lock double output	C–D–A–ent	Cancellation	In case of door–unlock	In case of door–lock	in case of lock and unlock	
21	Shortcut digital key control	A–C–A–ent	Operation	cutoff			
22	AUX designation	A–A–A–ent	non–disgination	S/W_A	S/W_BD	lock or unlock sensor	flickering in case of backing
	Indication of States		Light On	Light On and Off 1 times (Early Stage)	Light On and Off 2 times	Light On and Off 3 times	Light On and Off 4 times	Light On and Off 5 times

1). Start Detection Selection (C–C–A–ent)

* This se–up mode allows you to diversely select Engine Start Operated depending on types of vehicles.
* The initial value has been set up into L terminal(medium) applicable to most of vehicles. In case of some vehicles (including imported ones), since Start Detection is selected by imaginary recognition and voltage increase, apply it referring to a wiring guide for L terminal in an installment manual.

Notice In case of vehicles using a turbo function and a manual transmission–remote automatic reservation function, make sure L terminal is installed

2). Warming-Up before Start (C-D-C-ent)

* This function is designed to delay Start so that all conditions for Start including warming-up and LPI can be sufficiently performed in a state of IG-1.
* The delay of this function is applied similarly in case of remote starting and starting with button, but the 10 second delay is applied only to remote starting.

3). Start Output (A-D-A-ent)

* This mode allows you to set up the maximum time for operating a start motor before Start Detection is recognized when you operate Engine Start.

4). Start Reverberation (D-E-D-ent)

* This mode is the one to set up the time for cutting off a start motor so that it can be extended more after Engine Start is completed.
* This function is suitable for a vehicle in which Start Operated is quickly recognized, such as an old model, etc.

5). Key Insertion Output (D-C-E-ent)   6). Key Stripping Output (B-E-B-ent)

* This function is designed to output such a key signal as a signal through a genuine key when you operate.
* The key output is an essential function when vehicle power operates for Smart recognition, memory seat, and escort functions. 0.2 is applied to most of vehicles as the initial value, but on some vehicle types need to set it up among A~C.
* When a vehicle is delivered, with regard to the vehicle applied fundamentally by SMART, see the lever push output of 30p.

7). Manual Transmission- Remote Start Reservation System (D-D-D-ent)

* This mode allows you to automatically or manually select the procedure for checking up the state of gear-releasing in a manual transmission before you use Remote Start.

A. Automatic Reservation : Check it up every time the engine turns off.
B. Hand-operated reservation : confirm through using the remote controller button only when needed. (See 13P)

8). Door Lock during Running (B-C-B-ent)

* This function automatically operates Door Lock system by detecting vehicle's running, parking gear, and speed.
* The digital key set-up in this function allows you set up automatic Lock during running and automatic Unlock in a state of the parking gear.

[Example] D Lock (Automatic Lock in 5 minutes in a state when the transmission gear slips out of Parking), P Unlock(Parking gear location is automatically released after running), S Lock(Automatic Lock when reaching the speed set up, Key Lock(Automatically unlocked when you stop the engine after running)

* In case of S Lock, you can designate the speed you want. To designate the speed, select S Lock in Digital Key Set-Up, press the TRUNK button for more than 2 seconds when you car reaches the speed you want. Then, the door is locked and the speed is set up into the one you want.

Notice   * In case of the rapid speed reduction − light on and off function also, the emergency light turns on and off after detecting the rapid speed reduction.

⚠ Warning

To designate S Lock speed, make sure to put your car on the lift. (Do not set up the speed during running).

9). Door Detection Selection (B-E-C-ent)

* This mode is provided to detect Door Unlock of your car by selecting all door pins or indoor lights.

Notice   If you set up the time for entering Alarm suitable for the indoor lights −out time, smoother door detection is available.

10). Imaginary Door Output (C−B−D−ent)

* This function is applied to a vehicle type in which all powers are cut off only if you open the door of your car after turning off vehicle power. It allows you to select the output moment.
* This function enables you cut off the lights and power of your car by outputting the door lock signal after Remote/Turbo Start−OFF.

11). Trunk Output (C−C−D−ent)

* This mode allows you extend the output signal for Trunk Open to 4 seconds so that it can be compatible with a vehicle operated only if you press the genuine trunk switch for long.

12).Blinker Output (D−B−D−ent)

* This mode allows you to select normal speed or quick speed in the flickering speed of the blinker.
* This function is used to maintain smooth operation when you connect an output signal to an emergency light switch.

13). AUX 1 Output (B−A−B−ent)

* This function allows you to operate separate power using the remote controller. This set−up also allows you to select a Few Seconds−Output, or Continual Output, Black Box Function, and Escort Function.

* Black Box Function

When Alert is cancelled, the signal is always output. If impact detection and an alarm are generated duding Alert, date is output for 30 minutes.

* Escort Function

1. If you open the door of your car after turning off Vehicle Power, it will light up your way after getting off your car. If you press REMOCON LOCK button even during lights−on, the lights turn off.

---

2. The lights turn on for 30 minutes when Alert is cancelled before you getting on your car, which welcome a driver, and the lights turn off when SMART button operates during lights−on.

> **Notice** To operate the operation a Few Seconds−Operation and Continual Output Operation, double− click the buttons on the remote controller in 2 seconds looking at the remocon LED window.

14). AUX 2 Output (C−A−C−ent)

* This mode allows you to operate separate power using the remote controller. This set−up also allows you select a Few Seconds−Output or Continual Output.
* Gear Cutoff Function
  If you do not carry the remote controller, or Smart Communication is not certified when you shift the parking gear into the drive one in a state when Smart function has been setup, this function generates a warning sound 3 times and cut off operating the lever of the gear.

> **Notice** The Gear Cutoff Function is applicable to only a vehicle in which a device for fixing an electronic gear level has been basically installed.

15). Alert Entry Time (D−A−C−ent)

* This mode allows you set up the time when your car enters Warning after Door Lock. Set up the time only if necessary−when a driver is away from his car and in case of Door Detection Delay, etc.

16). Part Start Cutoff (D−C−C−ent)

* "Power Shift Module" is applied to the vehicles that have been produced in North America and some vehicles.
  If this function has been set up, the Power Shift Module is controlled to prevent Start from Operating.

17). Lever Pressing Output (E−C−B−ent)

* If you select this function for a vehicle using the Smart Leverkey which is basically applied when it is delivered, it allows you to manually operate the lever by outputting the lever−pressing signal.

18). Remote Relock (C−C−C−ent)

* This function is applied to the vehicle whose locking device has been cancelled by itself when Vehicle Power is on. This function allows yo to lock again the doors of your car by selecting IG1 ON and START COMPLETED during Remote Start.

19). DOWONTEC Output (E−C−E−ent)

* This function is used to connect additional DOWONTEC products to this product. In addition, this function allows you to select the output you want when you use the actual power of the vehicle except for the Turbo and Remote Start functions, or when you cancel an alarm.

20). Door lock double output (C−D−A− ent)

* This function is applied to a vehicle where all the doors are worked after the door lock device switch is outputted 2 times.
  It's possible to select and set 2 time output in case of door lock or door unlock.

21). Shortcut digital key control (A−C−A− ent)

* It's a setting mode to control the use function of digital short key to work only when carrying along with the remote controller.

Notice   This mode can control only the function to work with the shortcut key (remote starting, opening trunk).   (see 18p)

22). AUX designation (A−A−A− ent)

* It's a optional mode designated when linking this product's AUX(−) entry (orange/black color line).
  It's possible to use the additional functions through this sensor line according to selected usage.
* S/W_A(push), S/W_BD(lock) : It means the type of switch and is used along with AUX1.2 output.
* Flickering function in case of backing : It's a function to flicker the emergency lamp by sensing a back lamp.
  (sense polarity +/− conversion required)
* Lock/unlock sense : It's used to some vehicles where a switch of the door−lock device composes of one contact point, and blocks the situation to work double.

(See 7p of the installation manual)

23). Function initialization (D−A−E−ent)

* It's a mode to converse the set program of each function to the initial value same as when producing the products.
  The initialization of A−ent user can initialize only a part of program function table for users.
  The initialization of C−ent is for professional, so initiate after visiting installation agent.

Notice   How to work the entire initiation is available with 2 time continuous initiations within 5 seconds.

$\mathcal{C}$ertificate

of ANALYSIS and QUALITY

Product : SMARTKEY SYSTEM Alibaba

(Model : ALI−ST800, ALI−ST PLUS)

Warranty Period : 1 year since purchase

Purchase Date : (　　) (　　) in (　　　　)

VOLTLINE Co., Ltd. shall warranty its products in accordance with the regulations of customer reward policy.

Free Service (1 year)	The company shall provide its free service when defects of its products or natural troubles occur within a warranty period. Warranty Period: 1 year since purchase (except for the repair period), carrying charge payable by the customer.
Paid Service (3 years)	In case of mishandling, repairing, and remodeling by the customer In case troubles occur due to natural calamities In case of repairing its products at the places other than national branches of VOLTLINE Co., Ltd. DOWONTEC In case a product warranty period has passed In case you have not filled in a product warranty
Others	For warranty services, visit the dealer where you purchased the product, nationwide branches, and agencies. If you have installed the product, it shall be deemed that you have approved and agreed on the installment. The request of the product return is available within 10 days since you purchased. the costs for installing and uninstalling the product shall be paid by the customer.

Installer :　　　　　　　　　Manufacturer :

(Sign)　　　VOLTLINE Co., Ltd.

DOWONTEC/ VOLTLINE Co., Ltd

DOWONTEC

DOWONTEC/VOLTLINE Co.,Ltd.,

[Main office] 9th Floor, Doosan Venturedigm, 126−1 Pyeongchon-dong, Dongan−gu, Anyang−si, Gyeonggi−do
www.dowon-tech.com

The remote controller of DOWONTEC Alibaba can be designed by applying a manufacturer's, or a group's logo.
Please, contact DOWONTEC for your custom-built.