Two-way car alarm with remote control

KEETEC TS 8000

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[none]

[none]

Systems description

■ System description
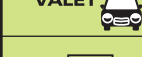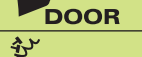
○ KEETEC TS 8000 is car alarm with 2-way trasmission assigned for vehicles with 12V power supply. The system senses doors, hood, trunk of vehicle. TS 8000 has a shock sensor and possibility for additional sensor connection. The system is protected by hopping code of second generation. The car alarm cut start of engine at vilation of any sensed zone and triggers the alarm by sound and optical alerting. The vehicle status is possible to monitor on display of LCD transmitter with range to 2000m. If the vehicle is violated, the display informs violated zone by sound, optical and vibration alerting. The LCD transmitter controls also central lock and trunk and allows remote start of vehicle. KEETEC TS 8000 is applicable for installation to all type of vehicle (petrol, diesel, TURBO engine, LPG engine) with manual and automatic gear. The duration and the start time of remote start is possible set-up. The system has many other function written in this manual.

■ LCD transmitter description

- illuminated LCD display
- vehicle status and range display
- violated input display
- sound signalling (ON/OFF)
- vibration signalling (ON/OFF)
- time, alarm-clock, timer (ex. for parking)
- buttons blocking
- function SMART activation
- interior temperature of vehicle display
- remote start time display
- driver calling display
- valet mode display
- turbo protection display
- program menu
- system control
- battery in trasmitter - 1,5V AAA

[none]

Button No	Icon	Operation: 1times (one second)	2times (Double click)	Two seconds	Page
1	🔒	Arming / Disarming Lock / Unlock	Arming/Disarming (No chirp mode)	Panic mode	7
2	⏻	Stick reservation	Remote start OFF Convenience start (IG ON)	Remote start ON	9,10,17
3	🚗	Car finder (Arm mode)	Shock sensing OFF (Two stage sensing OFF)	Trunk unlock	7,8
4	Ⓜ	Vehicle status confirmation	Temperature check	Parking timer mode	8,16

5	LCD Lamp ON 1time Ⓕ	Continues Setting mode	2 seconds	HoL	Button hold ON Ⓕ	14
			4 seconds	Atb	Automatic buttons locking Ⓕ	
			6 seconds	SIG	Signal check ON ●	
			8 seconds	bur	Buzzer OFF	
			10 seconds	ALm	Alarm setting ON	
			12 seconds	CLOCK	Current time setting	15
			14 seconds	ALARM	Alarm time setting	
			16 seconds	START	Start time setting	
		3times (Program setting mode)	Button 4	Ⓜ	Move to next menu	19
			Button 3	🚗	Move to next function	
			Button 2	⏻	Setup OFF or selection	
			Button 1	🔒	Setup ON or selection	
			Button 5	Ⓕ	Setup finish	

1+2	🔒 + ⏻ 2 seconds	Vehicle selection mode (within 30 sec from turn ignition OFF)			12
		Button 1	Normal vehicles	Standby time setting for 4 seconds	
		Button 2	Diesel vehicles	Standby time setting for 8 seconds	
		Button 3	Special vehicles	Standby time setting for 8 seconds Re-Lock setting after remote start	
		Button 4	LPG	LPG function setting(30seconds delay)	

1+4	🔒 + Ⓜ(✳) 2 seconds	Repeat start operation (8times / 24 hours)	RPM setting (in valet mode)	13
5+3	Ⓕ + 🚗 2 seconds	LCD back light (ON / OFF)		16
5+4	Ⓕ + Ⓜ 2 seconds	Vibration mode (ON / OFF)		
5->1	Ⓕ ▶▶ 🔒	Alarm of siren at shock sensor violation (ON/OFF)		
5->3	Ⓕ ▶▶ 🚗	AUX-1output (One way transmitter: Press button 4✳ for 2 seconds.)		17
5->4	Ⓕ ▶▶ Ⓜ	AUX-2 output (One way transmitter: Press button for 4 ✳ for 2 times)		17
5->2	Ⓕ ▶▶ ⏻	Time remote start (ON/OFF)		12
1+3	🔒 + 🚗 2seconds	Learning (1-way trasmitter) / Factory setting		20

Icons of LCD

Icon	Description	Icon	Description
ARM	Door lock(Arming) Signal check ON	CLOCK	Adjustment mode of current time
DIS ARM	Door unlock (Disarming)	ALARM	Adjustment mode of alarm time
RUN START	Remote start	START	Adjustment mode of automatic start time
TRUNK	Trunk unlock	VALET zzz	Valet mode
DOOR	Door open		Battery status
SHOCK	Shock sensing		Blink icon
CALL	Call indicator (Knock)	F	Button hold Function mode
ALARM	Wake-up alarm setting ON	AM PM	Time, Temperature, Program menu
AUTO START	Automatic start setting ON	TIMER	Timer mode
	Siren OFF (When shock sensing)		RF transmit
BZ	Buzzer OFF	START	Progressing time of the remote start
ACCESS	Smart access ON	AUX1	AUX-1
TURBO	Turbo ON	AUX2	AUX-2
TEMP	Temperature Start ON	°C	Temperature
ERR	Signal error	V	Vibration mode ON

■ Door lock(Arming) / Panic

Close the door — Press the button — 1 x 🎵 — Light 1x — Door lock and arming — ARM Display
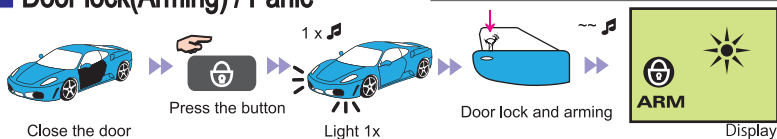
◉ Delay of input activation (doors contacts, ignition) is
Setting in range 5-45 sec. of system activation (function 3-8).
Default delay: 5 sec.
If doors are opened, starts sound alerting after expiry of delay.

ARM DOOR ~~ 🎵 **PANIC**

Display
(Remote engine start can´t be operated if the door is opening)

Press the button for 22 sec — Siren operation for 30sec

Panic alarm:
In case of emergency you can let people know the emergency status by flashing the parking lights and siren.

■ Door unlock (Disarming)

Press the button — 2 x 🎵 — Light 2x — Door unlock and Disarming — DIS ARM Display
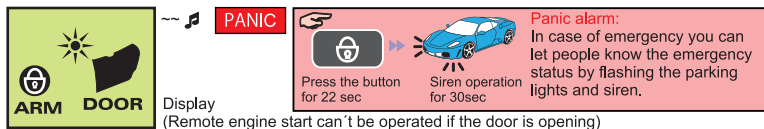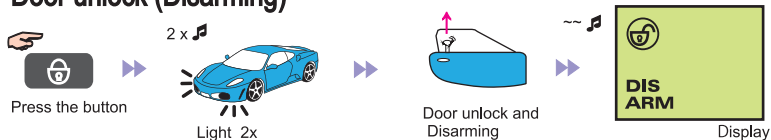
◉ If you don´t open the door within 30sec, after the disarming, the vehicle enters alarm mode again with the door is automatically locked.

◉ Mute arm / disarm: Press 2x button: 🔘 (within 1 sec.).

■ Trunk unlock (Car finder)

Press the button for 2 sec. — Trunk unlock — **TRUNK** Display

◉ The shock sensor will turn OFF after trunk open by transmitter (when system is armed). The shock sensor will turn ON after trunk closing.
◉ **Car finder function**: If you press the trunk button for 1sec in arm mode, you can confirm current status of vehicle with "Beep" sound and light.

■ Driver calling(Knock)

3 x ♫

~~ ♫

CALL

Knock the driver call sensor ,
on the winshield of the vehicle

Display

◉ After arm delay time(5 - 45 seconds), this function is operated after 20 seconds
Driver calling is stopped at the remote engine start.

■ Shock sensing

~~ ♫

SHOCK

Shock sensing

The siren output for 30 sec
(weak schock:Warning)

Display

Press the button
to stop the siren

◉ After arm delay time (5 - 45), thus function is operated after 20 seconds.
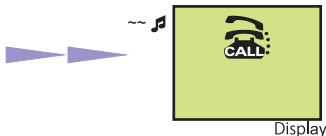Arm delay time default:5 seconds, See the table 3-8.)
◉ Shock sensing OFF: If you want shock sensor is OFF(1time) you need to press
the trunk button　　 2times in arm mode.
◉ weak shocks sensing OFF: press 2x button
strong shocks sensing OFF: press 2x button again

Shock sensing is stopped at the remote engine start.

■ When input is triggered

TRUNK

When the input is
triggered in the
arming mode

The siren output
for 30sec

ARM　DOOR

ARM

ARM

Door trigger

Trunk trigger

Hood, brake, Ig trigger

◉ The alarm repeated 3x at each
inputs violation.

Press the button
to stop the siren

■ Checking the vehicle status

M

~~ ♫

LCD back light
ON

ⅠⅠⅠ ERR

Press the
button

Current status of vehicle
is marked by icon

◉ ⅠⅠⅠ ERR This icon is turned on when
it can´t receive reception after operate transmitter.

Manual reservation mode (function 1-5 - OFF)
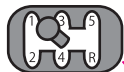
Keep stick shift on neutral position after driving

Press the button

Remove the ignition key

Open and close the door (The engine will remain be running)

ARM
Vehicle prepared for remote start.

System arms

1 x
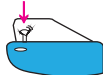
Door lock and arming

Press the button

◎ Reservation mode will OFF automatically:
- If the key is moved out of the ignition and any doors are opened.
- If the door will open before reservation mode finish reservation mode will cancel of safety reasons).

■ Getting on the vehicle during remote start

A remote start is operating

Press the button

Door unlock and Disarming

Getting on the vehicle (The engine will remain be running for 1 minutes)

Notice

NOTICE

1. You must notice not to turn the ignition key to an "ST" location in getting on the vehicle during remote start
2. Beware that start turn off within 1min if you not turn the ignition key to an "ON" but turn to an "ACC"

ACC ON
OFF
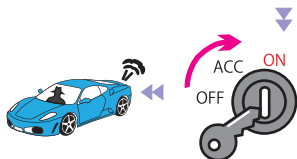
Turn on the ignition key within 1min to an "ON" location

◎ Engine start safety mode: If you press the brake pedal at the remote start, engine start program wil be completed with engine turn off.
(This function will be only operated in case brake sensing wire is connected.)

◎ Light blink for 15 minutes after remote start and the engine start turn off automatically after the 15minutes. (Progress time is marked to icon.) The buzzer sound is outputted from the transmitter when the remaining start is 5min. (If you want change start run time, see 3-1 of the program menu.)

◎ Engine start turn OFF: Press the button twice ⏻
  The start turn OFF with 2 chirps in the vehicle.

◎ Start condition: All sensing (Door, trunk, brake, hood) must be normally operated. If start isn´t operated at once, starting repeatedly your car 4times by increase each 0.3 seconds.

■ Remote start triggering

Keep stick shift on "P" or "N" after driving

Press the button for 2sec

The engine start is operated after 4sec(see program 3-2, 3-3)

1 x 🎵   3 x 🎵

Display

■ Reservation mode for vehicles with manual gear

Before remote start, the reservation mode is necessary to trigger in vehicles with manual gear.The vehicle is protected before engine start with speed.

◎ Automatic reservation mode: start allways at engine OFF
◎ Manual reservation mode: reservation mode setting

Automatic reservation mode (function 1-5 - ON)

Keep stick shift on neutral position after driving

Remove the ignition key

1 x 🎵

Light 1x (The engine will remain be running)

Open and close the door (The engine will remain be running.)

Finish the configuration

ARM

System arms

1 x 🎵

Door lock and arming (Engine turn off)

Press the button
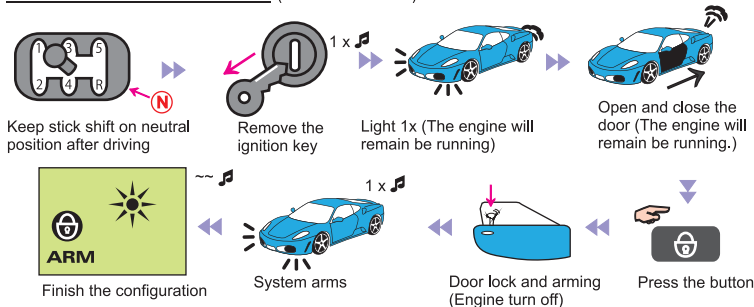
■ Start reservation of the LPG vehicle (Optional)

- In Summer: The reservation ist the same as normal vehicle kinds´s
- In winter: Remaining gas in gas line is frozen if the temperature falls below the zero.
  For prevention it, you had better do as follows.
  (This function is operated when you install LPG gas velb ON/OFF relay.)
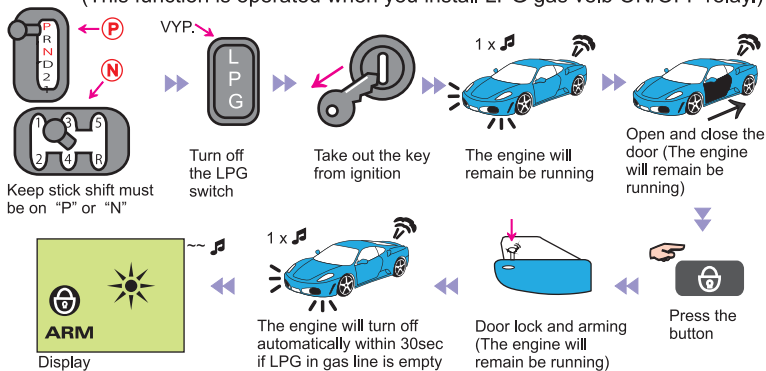
Keep stick shift must be on "P" or "N"

Turn off the LPG switch

Take out the key from ignition

1 x 🎵 The engine will remain be running

Open and close the door (The engine will remain be running)

Display

ARM

The engine will turn off automatically within 30sec if LPG in gas line is empty

Door lock and arming (The engine will remain be running)

Press the button

■ Getting on the vehicle during LPG start

A remote start is operating

Press the button

Door unlock and disarming

Getting on the vehicle

Notice

1. You must notice not to turn the ignition key to an "ST" location in getting on the vehicle during remote start
2. Beware that engine start turn off within 1min if you not turn the ignitionkey to an "ON" but turn to an "ACC"
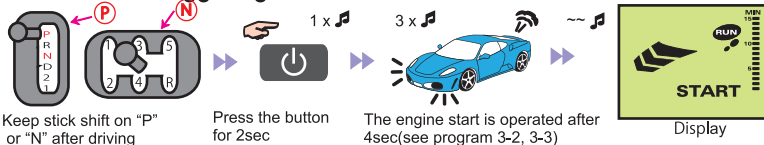
⚠ NOTICE

ACC ON
OFF ON.

Ignition key ON within 1min

LPG switch ON

◎ Engine start safety mode: If yoy press the brake pedal at the remote start, engine start program will be completed with engine turn off.
(This function will be only operated in case brake sensing wire is connected)

■ Time reservation start setting
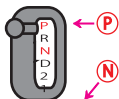
Keep stick shift on "P" or "N" after driving
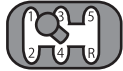
Open and close the door

Press the button

Door lock and arming

Press the button

Press the button

Time reservation start setting

Cancle of time reservation start function

or
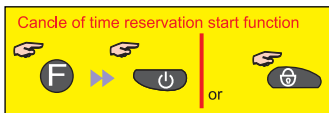
◎ Use the function after start time setting (See 15 page start time setting).This function is operated only one time after the setting for the safety.
It is convenient if you use in the situation which remote control isn´t operated.)
◎ In this case of the stick vehicle, you can setting only after reservation.

◎ Icon **AUTO START** turn ON, if automatic start is setting.

■ Vehicle selection mode

ACC ON
OFF
Ignition key OFF

Press the door and start button simultaneously for 2sec within 30sec after ignition off

3 x 🎵

Enter:
to the vehicle kinds selection mode

2 x 🎵

ACC ON
OFF
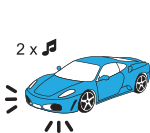
The setting is finished if the ignition key ON

Petrol engine   1 x 🎵
- remore start delay: 4 sec

Diesel engine   2 x 🎵
remote start delay: 8 sec

Others   3 x 🎵
- remore start delay: 8 sec
- Doors locking after remote start

M LPG   4 x 🎵
- Delay at reservation mode
activation: 30 sec

■ Auto turbo function

ACC ON
OFF
1 x 🎵
Ignition key OFF

Open and close the door

Press the button

ARM TURBO
Display

◎ This function is assigned for vehicles with turbo
◎ engine.Turbo protection before heating and next damage – the engine stays run and after arming turbo will cooled.

Press the button 2times if you want that engine turn off immediately

The engine turn off after 2mins

◎ Function ON is displayed by icon **TURBO**
Duration setting of engine run: 1-10 minutes, program menu 3-7
Attention: If the system is controled by original transmitter of vehicle then arming is not possible during engine run (for turbo protection).

■ Repeat start operation

This function is operated in arm mode

🔒 + M

Press the door and M button simultaneously for 2sec in arm mode

AUTO START
Auto start setting

If this function is set, start will automatically operated total 8times for 24hours. And set function will cancel at the disarm.

◎ This function is operated each every 3hours between 24hours.
Engine run duration is depend on function setting 3-1.

■ Valet mode (Emergency deactivation)

ACC ON
OFF
Ignition ON

Press and hold the button for more than 5sec
Valet ON/OFF
See Digital code valet mode of 19 page

~~ 🎵
VALET 💤
Display

The function is normally functioned if you repeat again. (Valet icon is off on the display)

ON: 1 x 🎵
OFF: 2 x 🎵

◎ In the case of the valet mode, you can operate only door lock/ unlock and trunk open by transmitter.
◎ Use this function when you leave your car to other person that don´t know how to use this tranmitter.
◎ Code valet mode using, see page 23.
◎ This process is used also for emergency system deactivation.

Setting mode

■ Button hold

👉 **F** ▶▶

Press the button for~~ 🎵 1x
2 sec   Remove your hand
when *HoL* is marked

⊙ If the button hold mode is ON,
F is displayed and user can operate only
F or **M** button
⊙ If you want to cancel it, press the **F** button
for 2sec one more time (**F** is OFF)

■ Automatic buttons locking

👉 **F** ▶▶

Press the button for~~ 🎵 1x
4 sec   Remove your hand
when *Atb* is marked

⊙ If the the automatic buttons locking is ON,
the display shows icon **F** and active
buttons are only **F** and **M**

⊙ If would you like OFF blocking, press button
F again over 4 sec.

■ Signal check

👉 **F** ▶▶

Press the button for ~~ 🎵 2x
6 sec   Remove your hand
when *Si 6* is marked

⊙ If the signal check mode is ON,
● is displayed and the transmitter check
the communication condition by commuting
with main control unit each every 60 min.
⊙ If you want to cancel it press the **F** button
for 6 sec. (● is off).
⊙ If the signal can not receive, the ▋▋▋ERR icon
will be displayed with buzzer sound.

■ Buzzer ON/OFF

👉 **F** ▶▶

Press the button for ~~ 🎵 3x
8 sec   Remove your hand
when *bur* is marked

⊙ If the buzzer is OFF, (BZ) is displayed and the
transmitter do not output any sound.
⊙ Mute mode is signalized on the display by icon
(BZ)
⊙ If you want to cancel it, press the **F** button for
8 sec. ((BZ) is OFF)

■ Alarm ON/OFF

👉 **F** ▶▶

Press the button for ~~ 🎵 4x
10 sec   Remove your hand
when *ALm* is marked

⊙ If the alarm is ON, ALARM is displayed and the
melody is outputted at setting time.
⊙ If you want to cancel it, press the **F** button
for 10 sec (ALARM is OFF)

◎ Transmitter will return automatically to current time if you don´t press the button for 10sec after setting mode.

■ Current time setting

Press the button for 12 sec

Remove your hand when **CLOCK** is marked. (Time cursor icon blinks)

~~ ♪ 5x

AM/PM Hour Min (10) Min (1)

(Time adjustment by an each function switch)

Setup finish

■ Alarm time setting

Press the button for 14 sec

Remove your hand when **ALARM** is marked (Time cursor icon blinks)

~~ ♪ 6x

AM/PM Hour Min (10) Min (1)

(Time adjustment by an each function switch)

Setup finish
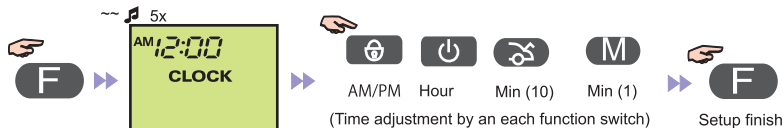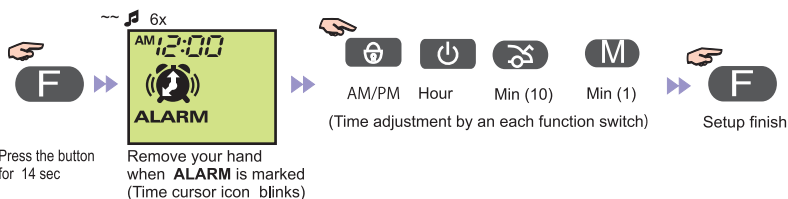
◎ Setting time is inputted in memory.

◎ The icon (🔔) is marked in transmitter when alarm is "ON". (page 14).

■ Start time setting

Press the button for 16 sec

Remove your hand when **START** is marked (Time cursor icon blinks)

~~ ♪ 7x

AM/PM Hour Min (10) Min (1)

(Time adjustment by an each function switch)

Setup finish
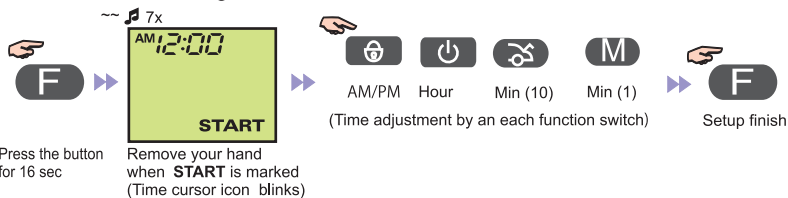
◎ Set up time to need time reservation start (Setting time will memory in the IC.).

◎ Set up by the transmitter when you need the time reservation start (page 12).

Timer function

"1chirp"

M ▶▶ 0:00 TIMER ▶▶ M

Press the button for 2 sec

The start of the timer operation

Press the button for 2sec again (Function finish)
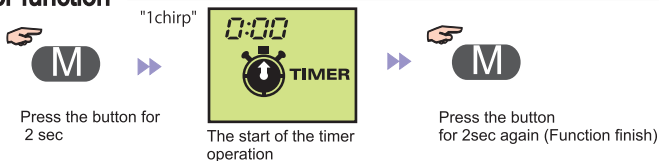
◉ This function is convenient when confirmation of the parking time and driving time. (The timer is marked 12hours to minute).

Siren (ON/OFF)

~ ♪

F ▶▶ 🔒 ▶▶

Press the buttons step by step

Siren OFF

◉ When turned siren off, sound of the shock sensor is only stopped (The state is displayed to the LCD 2-way transmitter).

Temperature check

M ▶▶ 25°c

Press the button 2times

Temperature is displayed to Celsius

LCD Lamp ON/OFF

F + 🚗

Press the F and trunk button simultaneously for 2 sec.

LCD lamp OFF: 1 x ♪
LCD lamp ON: 2 x ♪

Vibration mode

F + M ▶▶ V

Press the F and M button simultaneously

◉ This icon is displayed on when vibration mode is on and buzzer off. (At the door, trunk, hood, brake strong shock sensing)
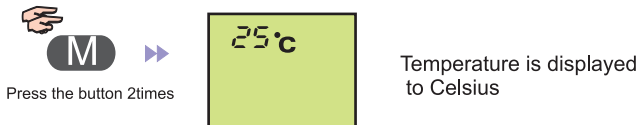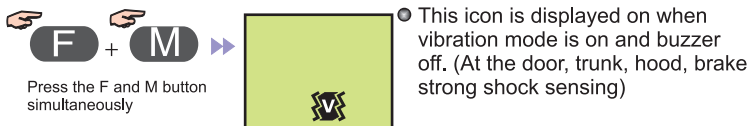
■ Aux-1 output

AUX-1 remote controled additional output, can be used for control of equiments in vehicle (independent car heater...)

☞ F ▶▶ [icon]

Activation (deactivation)

AUX1

AUX-1 will be outputted for 1sec. If you want to output time, change to 3-5 of the program menu.

One way transmitter:
Press button (✳) for 2 sec.

This icon is turned on when you operate AUX1 output.

■ Aux-2 output

AUX-2 remote controled additional output, can be used for control of equiments in vehicle (independent car heater...)

☞ F ▶▶ ☞ M

Activation (deactivation)

AUX2

AUX-2 will be outputted for 1sec. If you want to output time, change to 3-6 of the program menu.

One way transmitter:
Press button (✳) for 2times

This icon is turned on when you operate AUX2 output.

■ SMART acces mode

◉ SMART function provides automatic arming in move away from vehicle and disarming come near to vehicle (function ON/OFF - program menu 4-6)
If you use this function, the transmitter battery life will be short.

ACCESS

■ Convenience start

☞ 2 x 🎵
[power button icon]

Step on the brake and press the button 2times

◉ Comfort start is possible ON, when engine run.
◉ Comfort start is possible ON, when engine run.
It is used when you need keep engine run after locking and arming (engine run duration is depended on function setting in program menu 3-1).
◉ You can use the comfort start, when you want go away from car on short time and you don´t want engine turn OFF.

■ Cold & Hot start

TEMP

◉ Automatic vehicle start at temperature decrease under -20° C or increase +50° C. Minimal temperature is possible to set from -4° to -24° C (function 3-4).

◉ Activate this function in program menu 1-7.

■ Transmitter code learning

This function start in valet mode

Open the door

ACC
ON
OFF

Turn from OFF to ON the ignition key over 8 times

5 x ♪
Clear the all transmitter code and it enters new code input mode

2 x ♪
If you register new transmitter, you will hear 2 chirps, otherwise the transmitter will be valet mode with 3chirps
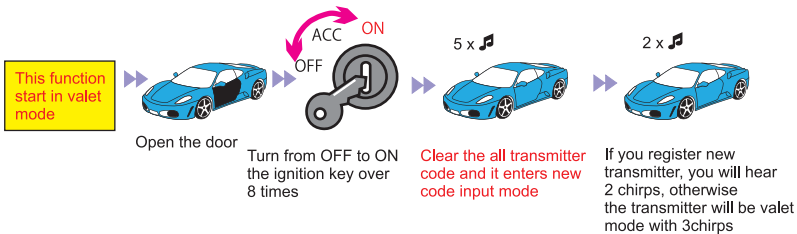
◉ This function is used when you lose transmitter or break down. You can use this function though siren is continually operated.

◉ The transmitter input is possible to each maximum 2pcs both one way and two way transmitter.

■ Low battery indicator

◉ If the operation range of transmitter is shortened or the buzzer sounding was lower than normal, please replace the battery to new one.

◉ You must adjust current time again after battery interchange.

◉ The alkaline battery life is 2-3 months and exchange the battery at once if the icon blinks.

Display
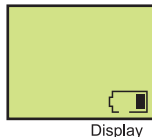
■ 1-Way transmitter description

- system control
- system setting
- battery in transmitter - 2x CR 2016, 3V

(transmitter is not included!)

■ RPS module

Sensitivity setting of RPS module

RPS module button

Operation

1) Arming and locking by RPS module
 1. Press button of RPS module 1x. LED indicator will light up and the display is rotated fast (this function is maintained for 30 sec.)
  If you will press button within 30 sec., process is canceled.
 2. Knock on window (on RPS module) 5x within 30 sec.
  If all doors are closed, the vehicle will arm and lock.
2) Disarming and unlocking by RPS module
 1. Knock on window (on RPS module) 5x within 30 sec.
  (You will activate function „driver calling" by the first knock).
 2. The display will show digits 0 - 9, rotation in 2 sec. When will display the first digit of your code, knock on module. The setting is accepted by flash 5x of this digit. The display will start rotate digits 0-9 again.
 3. Set all 4 digits of code according to step 2. If the code is taken correctly the car alarm is disarmed and doors unlocked.

> ⚠ **ATTENTION:** If you will set incorrect code 5x (during 1 hour), The RPS module displays "U" and all functions of RPS module are deactivated for 1 hour. The functions will retrieve by pressing of button.

3) Security code change
 1. Press button of RPS module 20x. LED indicator will flash 2x.
 2. Knock on window (on RPS module) 5x within 30 sec.
 3. The display will show digits 0 - 9, rotation in 2 sec. When will display the first digit of your code, knock on module. The setting is accepted by flash 5x of this digit. The display will start rotate digits 0-9 again.
 4. Set all 4 digits of code according to step 3. After last digit setting is a new code saved. If you would like change the code, repeat steps 1-4.

> ⚠ **ATTENTION:** The security code sets driver of vehicle. (default security code is "1234".)

■ Program reset

◉ **Program reset of the main control unit:** If you press 🔒 and 🗡 button simultaneously for 2 seconds within 30sec after ignition OFF at the valet mode, all program will default setting

◉ **Program reset of the LCD transmitter:** If you reset main control unit, you must reset of the transmitter. Put battery in with press M button after remove the battery of the transmitter and then all program of the transmitter will default setting.

■ Program setting

◉ Program setting method is different according to transmitter. Two-way and way). Transmitter must be disarm at the program setting.

◉ LCD 2-WAY TRANSMITTER

Step 1: Press the F button 3x

Step 2: You can change to menu of the P-1, P-2, P-3, P-4 by press the M button.

Step 3: Choose the function you want by press the trunk button 🗡

Step 4: Choose the program state by press the button 1(ON) 🔒 or button 2 (OFF) ⏻

Step 5: Function you choose will be transmit a main and setting is completed by press the F button.

◉ ONE-WAY TRANSMITTER

One way transmitter can be change only in P-1 and P-2 of the program menu.
Program menu step is marked by chirp sound (ex: Menu 1-1 = 1x 🎵 1-2 = 2x 🎵 ..)

Step 1   Step 2   Step 3   Step 4

ON/OFF: ON.   OFF.
              🔒 or ⏻

Move to next function: 🗡

Move to P2-1: ✳

Ignition key ON   Press the 1 and 3 button simultaneously for 3sec within 30sec after ignition ON   The setting is completed if the ignition key OFF or turn off automatically after 5sec.

Program. menu	LCD Display	P-1 Remote start	Factory default	Optional
			Press button 1 or 2	
1-1	tur	Auto turbo protection	OFF	ON
1-2	StL	Door re-lock after remote start	OFF	ON
1-3	ACC	Trunk output change	OFF	ON
1-4	LPG	LPG reservation mode	OFF	ON
1-5	Atr	Auto reservation mode	ON	OFF
1-6	Het	Glow plug sensing at remote start	OFF	ON
1-7	tEm	Cold & Hot start	OFF	ON
1-8	IGt	Output "ignition 2"at the disarm	ON	OFF

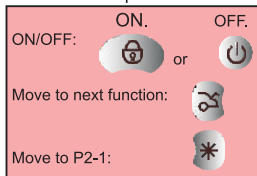| Program. menu	LCD Display	P-2 Basic function	Factory default	Optional
			Press button 1 or 2	
2-1	CCH	Digital code valet mode	OFF	ON
2-2	IGL	Ignition lock/unlock	OFF	ON
2-3	PSA	Passive arming	OFF	ON
2-4	PSL	Passive lock	OFF	ON
2-5	LdA	Last door arming	OFF	ON
2-6	CHP	Chirp sound	ON	OFF
2-7	dUP	Double unlocking pulse	OFF	ON
2-8	dLP	Double locking impulse	OFF	ON

Program. menu	LCD Display	P-3 Timing settings	Factory default	Optional
			Press button 1 or 2	
3-1	Stt	Run time for remote start	2 10 **15** 25 35 45 (Minutes)	
3-2	Std	Remote start delay	**4** 8 12 15 18 20 (Sec.)	
3-3	Sto	Start impulse time	**0.4** 0.5 0.7 1.0 1.4 2.0 (sec.)	
3-4	CSt	Cold start temperature settings	-4 -8 -12 -16 **-20** -24 (°C)	
3-5	Au1	Aux 1 output (LCH=Continue)	**1** 5 10 20 40 LCH (sec.)	
3-6	Au2	Aux 2 output (LCH=Continue)	**1** 5 10 20 40 LCH (sec.)	
3-7	ttt	Turbo time setting	1 **2** 3 5 8 10 (Minutes)	
3-8	Amd	Arm delay time setting	**5** 10 15 25 35 45 (sec.)	

Program. menu	LCD Display	P-4 Advanced functions	Factory default	Optional
			Press button 1 or 2	
4-1	SPo	Siren pulse output	OFF	ON
4-2	AEd	Automatic engine disable	OFF	ON
4-3	Lot	Unlock pulse	0,5 sec.	3,5 sec.
4-4	BPs	Arm reminder	OFF	ON
4-5	dom	Dome light is changed to armed output	OFF	ON
4-6	SAC	SMART acces mode ON/OFF	OFF	ON
4-7	CAS	Locking pulse	as unlock	20 sec.
4-8	Acd	Arm cancel mode at door open	OFF	ON

■ Program menu (P-1) - remote start

◉ **1-1 Auto turbo protection**
If this function is ON, the function maintains engine ON after the door is locked.
The turbo time is possible to change at program menu 3-7.

◉ **1-2 Door re-Lock after** (installation only)
If this function is ON, The car alarm will lock doors automatically after remote
start ending. This function is necessary to activate at vehicles, where the
central lock wil unlock after turn ignition OFF.

◉ **1-3 Trunk output change** (installation only)
If this function is ON, (+) will always output at the remote start (orange wire
NR.3, connector CN2).

◉ **1-4 LPG reservation mode** (optional)
If this function is ON, the engine will turn OFF automatically within 30 sec., if
LPG in gas line is empty when the engine turn OFF.
(This function is operated when you install LPG gas valve ON/OFF relay).

◉ **1-5 Auto reservation mode**
If this function is ON, the reservation mode for remote start run always after turn
ignition OFF (The engine stays ON till last door closing - max. 2 min.).
If this function is OFF, the reservation mode is possible a manual activation
(see user manual - reservation mode for vehicle with manual gear).

◉ **1-6 Glow plug sensing at remote start** (installation only)
If this function is ON, starter motor is operated after glow plug is OFF at the
remote start. For this function is necessary to connect violet wire nr. 11
(connector CN5).

◉ **1-7 Cold & Hot start**
If this function is ON, engine automatically start if temperature become under -
20° C or more then +50°C at the arm mode. The cold start temperature is
possible set-up from -4 to -24°C (program menu 3-4). The engine ON duration
is depend of function setting 3-1. This function is automatically OFF after total
8x operation.

1-8 Output "IGNITION 2" at the disarm (installation only)
If this function is OFF, output "Ignition 2" is OFF at the disarm during remote start.

■Program menu (P-2) - Basic functions

2-1 Digital code valet mode
If this function is OFF, the valet mode is operated to ON/OFF if you press the valet button for 5 seconds at the ignition key ON.

If this function is ON, set the security code at valet mode activation.
Digital code valet mode activation:
1. Press the switch for 5 seconds when the digital control module is standby mode, and then LED blinks one time and the display segment is rotated fast. (This function is maintained for 30 seconds.).
2. Knock the sensor more than 5 times after get off the car within 30 seconds, then the digital code start count. (If you press the switch again within 30 seconds LED blinks 2 times and digital valet function is canceled).
3. During the numbers automatically count with delay each 2 seconds from 0 to 9, knock the sensor at the registered CODE. Then selected number blinks 5 times and it automatically repeat next number from "0".
4. Select the remainder 3 CODES as upper STEP 3. If you select all CODES in order, valet mode is ON. If you want to cancel the valet mode, press the valet button for 5 seconds at the ignition key ON.

2-2 Ignition lock/unlock
When turned ON, the doors will be locked when step on brake after the ignition is turned ON. The doors will be unlocked when the ignition is turned OFF.
Getting on the vehicle during remote start: Door is locked when ignition key ON and then step on the brake.

2-3 Passive arming
When turned ON, the system will arm automatically after 30seconds if the ignition key is OFF and door open/close.

2-4 Passive lock
When turned ON: When the system is arm by passive arming, door lock will be automatically operated.

2-5 Last door arming
When turned ON, if all door is closed at the disarm, door lock will be operated with arm after 30 seconds.

2-6 Chirp sound
In the default setting, siren of the vehicle will output chirp sound when you operate transmitter.

2-7 Double unlocking pulse (installation only)
If this function is ON, each door unlock = 2 impulses. The function is activated, when unlock impulse is setting on 0,5 sec. (program menu 4-3).

2-8 Double locking pulse (**installation only**)
If this function is ON, each door lock = 2 impulses. The function is activated, when unlock impulse is setting on 0,5 sec. (program menu 4-3). If locking pulse is setting in 20 sec., the first impulse is 0,5 sec and the second is 20 sec.

■ Program menu (P-3) - Timing settings

3-1 Run time for remote start
This function adjusts run time of the vehicle at remote start, cold start and time reservation time.

3-2 Remote start delay
This function adjusts delay at remote start, delay time from turn ignition ON to engine start.

3-3 Start impulse time (installation only)
Time setting of start impulse (at remote start by tach or noise sensing).

3-4 Cold start temperature settings
Minimal temperature setting for start of Cold & Hot program.
The function Cold & Hot start must be ON (1-7).

3-5 Aux 1 output (**installation only**)
Duration of Aux1 output setting. If CLH is adjusted, Aux1 output is constant (the autput will be activated till disarm by transmitter).

3-6 Aux 2 output (installation only)
Duration of Aux1 output setting. If CLH is adjusted, Aux1 output is constant (the output will be activated till disarm by transmitter).

3-7 Turbo time setting
Turbo time setting for auto turbo timer programm (1-1). Default setting is 2 min.

3-8 Arm delay time setting
Arm delay time delay of sensing for doors, trunk, hood and ignition.
Shock sensor will work 20 sec. after delay time.

■ Program menu (P-4) - Advanced functions

4-1 Siren pulse output
In the default setting, siren will be continually outputted for 30 seconds when
alarm is operated. When turned ON : Siren will be outputted to pulse

4-2 Automatic pulse disable
When turned ON, starter kill will be automatically outputted 30 seconds after
ignition OFF with LED blink slowly.
.
4-3 Unlock pulse (installation only)
If this function is ON, unlocking impulse length is 3,5s. If this function is OFF,
unlocking impulse length is 0,5s.

4-4 Arm reminder
If this function is ON, the car alarm will sound 2x, after each open and close
door over 10 sec., it reminds that is OFF. If the function 2-3 or 2-5 is ON, The
reminder doesn´t work.

4-5 Dome light is changed to armed output (installation only)
If this function is ON and car alarm is armed, output for dome light is turned ON
constantly (-) (black wire nr.2, connector CN5).

4-6 SMART access mode ON/OFF
When turned ON, LCD display ACCESS icon. And the main control unit sense
the transmitter when transmitter is near by vehicle, the system will be
automatically disarm (Unlock). If the transmitter is far from vehicle, the system
will be arm. If you use this function, the transmitter battery life will be short.

4-7 Locking pulse
If this function is ON, locking impulse length is 20 sec. If the function is OFF,
locking impulse is the same as unlocking impulse.

4-8 Arm cancel mode at door open
When turned ON, if the door is open, arm is not operated by transmitter. In this
case, you can operate arm after closing the door.