





















Touch-Screen 2-Way Alarm & Starter Operation Manual

Remote Function Table:

Remote command	Buttons	Key	Conditions
Arm		P1K1	
Disarm		P1K2	
Lock		P1K1	Ignition on
Unlock		P1K2	Ignition on
Silent Arm		P0K1	
Silent Disarm		P0K2	
Car Finder		P1K1	Arm state
Anti-Hijack		P0K4	Ignition on
Panic	 hold 2 sec	P0K4	Ignition off
Two Stage Unlock	 hold 2 sec / press times	P1K2	See function program
Shock By Pass		P1K1	
Activate Channel 1	 hold 2 sec	P1K3	See function program
Activate Channel 2	 hold 2 sec	P1K1	See function program
Activate Channel 3		P11K1	See function program
Activate Channel 4		P11K2	See function program
Activate Channel 5		P11K3	See function program
Activate Channel 6		P11K4	See function program
Remote Engine Start	 hold 2 sec	P1K4	
Remote Engine Shut down		P1K4	
Arm with Engine Running		P8K1	Engine run (by ignition key)

Outside View:



LED lights on when user did not notice that system had been triggered

Main Page:

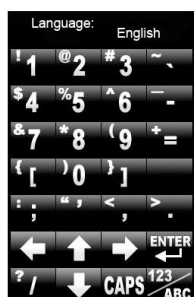
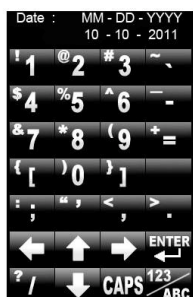
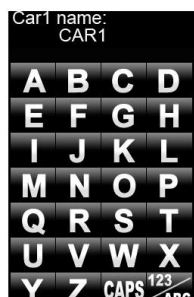
Press KEY to display Page 0: **press anywhere in touch area to display page one**



Page One:



Press Forward or Backward button display other page



Cancel Count Down: **set count down =00:00**

Function Table for the button in other pages:

Buttons	Key	Explain	Buttons	Key	Explain
	P1K1	Arm			
	P1K2	Disarm		P4K5	Compass
	P1K3	Trunk		P4K6	Infrared remote control
	P1K4	Remote engine start		P5K1	Set currently car to 1 st
	P1K5	Silent arm key		P5K2	Set currently car to 2 nd
	P1K6	Silent disarm key		P5K3	Set currently car to 3 rd
	P2K1	Activate Channel 3		P5K4	Set currently car to 4 th
	P2K2	Activate Channel 4		P5K5	Set car loge in p0
	P2K3	Activate Channel 5		P5K6	Set car name
	P2K4	Activate Channel 6		P6K1	Locate/Find
	P2K5	Arm without ZONE		P6K3	Engine run
	P2K6	Car jack key		P6K4	Get vehicle battery volt
	P3K1	Open/close garage1		P6K5	Status Check
	P3K2	Open/close garage2		P6K6	Get the outside temperature
	P3K3	Close Garage		P7K1	Set park time
	P3K4	Open Garage		P7K2	Set park position
	P3K5	IR remote control switch		P7K3	Set count down time
	P3K6	IR remote control switch		P7K4	Trigger record
	P4K1	Set daily start		P7K5	system set
	P4K2	Set count down start time		P7K6	Show DEMO

Attention:

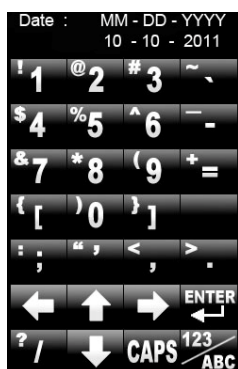
Power save on in saving mode, the HHU can't remote and receive either



can enter the setting page, to change the following settings

Date : MM-DD-YYYY 10-10-2011	date	Power save : OFF	power save: ON/OFF
Time mode : 24H	time mode 24H/12H	Melody : ON	Melody: ON/OFF
Language: English	language	Key beep : ON	Key beep: ON/OFF
Set time: HH:MM 12:00	set time	Shock : ON	Shock: ON/OFF
Back light 1-5 5	back light	Power off Y/N? N	power OFF N/Y
Light delay : 4-19 08	light delay	Compass reset N	compass reset N/Y
Alert : HH:MM 12:00	alert time	Pin code switch: OFF	Pin code switch ON/OFF
Alert switch: OFF	alert switch ON/OFF	pin in 1st: *****	Pin code change

Press can switch option, press can switch on/off



Infrared ray remote control instructions

Can learn 4 different infrared ray remote control

Learning method:

1. First choose item



2. Press and the upper left corner will display Learn, then press other button to learn the corresponding function

EX: First press to learn power, then press , it will display **S** 1ST on the top

3. TS11 and learning infrared ray remote control, the infrared ray must in 8MM

4. Press the corresponding function button of infrared ray remote control, on the top of TS11 will display **S** 2ST and beep a sound


5. Then press once the corresponding function button of infrared ray remote control, TS11 will beep a sound, means learning successfully, TS11 will display FALL if learning fail.

PS: Every different function buttons will need to re-operation once.



1. Arm




Press button  once, system will chirp once, parking lights flash once, lock the doors, starter disabled, window close output 30 sec. (if CH4 programmed), status LED start to flash slowly,

Will chirp 4 times and parking lights flash 4 times if door or hood or trunk isn't closed well while arming, and will not detect the door (hood, trunk) open until there are full closed well. The system can be triggered 5 second after armed if choosing "off" in program feature 3. In other case see program feature table description.

Shock sensor can be triggered after armed in program feature 3.

2. Disarm




Press button  once, system will chirp and flash twice, unlock the door, turn on dome light, LED flash rapidly 30 sec. (if rear arm function ON and off when door or trunk open or ignition turn ON). IF system was alarmed in arm mode (except warning zone of shock sensor) then if disarm siren chirps 4 times.

IF system was alarmed in arm mode, Transmitter will chirp 4 times and show triggered detail record include trigger zone name, time, date.


3. Silent Arm



Press button , system will arming without chirp.

4. Silent Disarm





Press button , system will disarm without chirp.

5. Alarm Mode

The siren will sound, parking lights flash 30 sec. if door or hood or trunk is opened or ignition key is turned on or triggered main zone of shock sensor. If triggered warning zone of shock sensor siren chirps 6 times.



To stopping alarm press button  or .

Number of alarm hasn't to be more than 5 times for each zone.


6. Trigger Zone Display

When system is alarming or after disarming, if the LED quick flashes several times and then 1 second pauses, it indicates the system has been triggered, and the times the LED flashes indicate the zone that was triggered, as below:

- Twice: AUX 4 PIN 1 heavy trigger
- 3 times: AUX 4 PIN 2 heavy trigger
- 4 times: TRUNK
- 5 times: DOOR
- 6 times: HOOD
- 7 times: IGN


7. Arm without zone




Press button , once to set arming, siren chirp, parking lights flash once, build in shock sensor will be bypassed, other sensor is normal. Aux sensor 1 and sensor 2 will be bypassed, other sensor is normal.

8. Arm with Engine Running




While engine is running and the key at ignition ON position press button , parking lights flash, transmitter will have music about 1 sec; pull up the handbrake then take out ignition key.



The engine will keep running! Open the door, and close all doors). Press button  system will chirp once, parking lights flash once. Engine will be running 15, 30, 45 or unlimited time period (according the program features 28) then shut down and system. Shock sensor is bypassed at this period. Or the engine will be shut down if open the door without disarm by the transmitter.



Press button  once to shut down engine. Parking flash once for confirm. Engine also shut down when alarm.

9. Auto Rearm

System will be rearm and relock if no any door (or trunk) opens or ignition key turn on within 30 seconds after disarmed. It's programmable function – see program features 5

10. Passive Arming / Arming Reminder



Ignition is off after driving, open the door, leave out and close it. the system will automatically armed after 30 sec. Passive arming still no lock door. It's programmable function – see program features 6

11. Immobilizer


At immobilizer mode system automatically enter starter disable relay (w/o arm) after 30 sec from ignition turn off. At this mode LED flash when ignition ON.

12. Two-Stage Unlock




Press button  will unlock driver's door only. Hold button  for 2 seconds or press




button  twice (see program feature 10), will unlock the passenger's doors (activate "2nd stage Unlock Output"). If programmed.


13. Lock



When system is disarmed and ignition key is on, press  button will lock the doors.

14. Unlock


When system is disarmed and ignition key is on, press  button will unlock the driver's door.

Hold button  will unlock the passenger's doors (activate "2nd stage Unlock Output").


15. Lock / Unlock Door upon Ignition

If this function programmed (program feature 2) car's doors lock automatically when ignition turn on and unlock when ignition turn off.


16. Car Finder

When system is armed, press button  simultaneously one time, siren will chirps 6 times and parking lights flash 6 times.


17. Trunk Release (Channel 1)

Press and hold 2 sec. button , channel 1 will active for 0.8 sec., When system armed shock sensors and trunk trigger will bypass until 10 sec after trunk closed.


18. Channel 2

Hold button  for 2 seconds to activate channel 2. See programmable function (program feature 10).


19. Channel 3

Press  to activate channel 3, remote Output pulse time of channel 3 is programmable function (program feature 11).


20. Channel 4

Press  to activate channel 4, remote Output pulse time of channel 4 is programmable function (program feature 13).

21. Channel 5

Press  to activate channel 5, remote Output pulse time of channel 5 is programmable function (program feature 15).


22. Channel 6



Press  to activate channel 6, remote Output pulse time of channel 6 is programmable function (program feature 16).

23. Panic

In arm or disarm mode and ignition key is off.




Hold button  for 2 seconds , system enter panic mode. System arm (with doors locking), siren

will sound and parking lights flash for 30 sec. Press button  or  during 30 sec to stopping alarm mode. (System stays at arm mode).

24. Anti-Hijack Mode

Ignition must be ON and all doors closed.



Press button  , (or press override button once then open and close door) to activate anti-hijack mode. Parking lights flash once, LED start to flash rapidly. To deactivate anti-hijack mode press button



or enter PIN-cod.

After 30 sec system enter arm with alarm modes, stopping alarm and disarm by transmitter is disable. To deactivate anti-hijack mode enter PIN-cod only or follow up override steps.

25. Valet Mode

At valet mode system can be remote door lock / unlock, activate channels. No any protect function.

Enter and exit Valet mode procedure:

Be sure the system is disarmed.

Turn the ignition key on.

Press and hold the valet switch for 3 seconds.

The siren will chirp once to enter valet or twice for exit.

The LED will turn on solid indicating the system is in valet mode, or turn off indicating

26. Override

Enter the vehicle

Turn the ignition key on.

Press and hold the valet switch for 3 seconds.

The siren will stop sounding.

The starter defeat is deactivated.

27. PIN Code Procedure

Pin-code consists of two digits. To disarm system with out remote transmitter or deactivate Anti-hijack mode use PIN-code procedure.

Pin-code consists of two digits: X, Y. Factory default 1:1 (X=1, Y=1)

To disarming:

- turn ignition ON
- press override button (X) times
- turn ignition OFF then ON
- press override button (Y) times
- turn ignition OFF

After that system disarms.

Note: System will automatically get out of PIN-code procedure if no pressing within 20 sec after last one.

28. PIN Code Setting

To change PIN-code:

- turn off ignition and the system is disarmed.
- Press the valet switch 4 times.
- Turn ignition on.
- The siren will chirp 4 times.
- press override button once
- siren chirps one time
- press button of transmitter to enter first digit of PIN-code:



- siren confirm selecting digit (1...4 chirps)
- press override button once
- siren chirps two times
- press button of transmitter to enter second digit of PIN-code:



- siren confirm selecting digit (1...4 chirps)

After 20 sec or turning off ignition system will get out the PIN-code setting procedure, parking lights flash 4 times.

29. Manual Arm

Turn ignition off, press override button 3 times. Then open and close all doors. System auto arms in 10 sec with out door closing. If used manual arm mode and any zone triggered system turn alarm mode in 20 sec delay.

30. Turbo Timer

Turbo timer is programmable function (feature program 25)

If function on:

- pull up hand brake while engine is running
- turn ignition key off and take out the key (engine is still running)
- engine will run for the programmed duration




To stopping engine press button  once. Parking flash once for confirm.


If you chose the Smart key function ,there's has start/ stop button pulse in arm mode and in the disarm mode, there's no start/ stop button pulse

31. Manual Transmission Car Safety Setting Procedure (for engine start)

If you are going to leave the vehicle the following procedure must be performed (It is need for safety engine auto start):

- ignition key is on, engine running
- pull up hand brake

- press and hold 2 sec. button , parking lights flash once
- turn ignition key off and take out the key (engine is still running)
- get out the vehicle and close the door
- after close the door, system shut down engine.

- system shut down engine 1 minute later button  pressing or immediately after arming (and door locking) by remote.

This procedure must be performed each time before getting out the vehicle. Open door will cancel the setting.

32. Learn Tachometer (RPM)

- turn off ignition
- press override button 7 times
- turn on ignition
- parking lights flash and siren chirps 7 times
- press override button 6 times
- siren chirps 2 times


Start the vehicle with the key. while the engine is running, the parking will flash. if don't, please check tachometer wire connection.

Press  on transmitter to record the RPM. Chirp once to confirm.

Press  on transmitter to exit the RPM learn mode. chirp 4 times and flash 4 times

Warning: Before learn Tachometer, please be sure the engine is warming up and engine RPM is slow down to idle running, otherwise will learn incorrect idle RPM that will make “ Keep engine running” not work well.

33. Remote Engine Start

Press and hold 2 sec. button  to remote engine start, parking light flash twice to confirm. If engine isn't started up from first, the system will automatically total start the engine 4 times. Cranking time (program feature 20) of each next attempt will be increased by 0.2 sec.

If start is successful. parking lights flash 3 times
Engine runs during “running time”. Then shut down automatically.

To stopping engine press button  once. Parking flash once for confirm.

Engine auto start isn't available in case of:

- engine is running
- hood is open
- hand brake isn't activated
- Mid-gear procedure isn't executed (for manual gear only)

When remote start is fail, siren chirps 4 times.

Engine Stop diagnostic:

LED flash 2 times, HOOD OPEN

LED flash 3 times, HAND/PEDAL BRAKE ERROR

LED flash 4 times, MANUAL GEAR CAR NO MID GEAR PROCEDURE

LED flash 5 times, IGN ON or RPM is run.
LED flash 6 times, RPM TOO SLOW OR HIGH
LED light always, VALET MODE NO START
LED flash 8 times, DIESEL WAIT TIME OUT
LED flash 9 times, TRY 4 TIMES FAIL
LED flash 10 times, do not start if less than 11.5V.

34. Code-Learning of remote transmitter

There are only four transmitters may be learned in system's memory.

Codes of learned remote transmitters will be erased each time the learning mode is activated.

To activate leaning codes mode:

-Turn the ignition on, off, on, off and leave on.
The siren will chirp.

-Press and hold the Valet/Override switch.
The siren will chirp 3 times.

-Release the Valet/Override switch.



- press button of first remote transmitter
- siren chirps and remote transmitter beeps once



- press button of second remote transmitter
- siren chirps and remote transmitter beeps two times



- press button of third remote transmitter
- siren chirps and remote transmitter beeps 3 times



- press button of fourth remote transmitter
- siren chirps and remote transmitter beeps 4 times

After 20 sec or turning off ignition system will get out the transmitter learning procedure, The siren will chirp 3 times.

When the new transmitter learning process is successfully,
any previous/lost transmitter will be deleted from the memory of the system.

Attention!



To learning a new transmitter, please remember to learn the old transmitters together in the same time.

Otherwise the old transmitter code will be deleted from the memory of the system, can only receive the signals from pager but have no remote control function.

35. Functions Programming

1. Turn Ignition Key to the OFF
 2. Press Program / Valet button 3 times,
 3. Turn Ignition Key to the ON position
 2. after a few seconds the unit will flash the lights and Siren Chirps 3 times.
 3. Push the valet/program button [again] the number of times that corresponds to the option number desired (1 thru 28). You must get a light flash and chirp after each button press.
 4. When you reach the desired programming level, Press button #1, #2 #3 or #4 to change the option level. The siren and horn will confirm with 1-4 chirps. **The remote control will confirm program option selection on top right corner of display.** Example option #6 button 4 shows *06--4
 5. Turn Ignition OFF and check for changed features.
- Note:** The Program Mode Exits automatically after 20 seconds (lights flash 4 times on exit).

#	Option Description	TX Button #1 Factory Default	TX Button #2	TX Button #3	TX Button #4
1	Door Locks	0.8 Second Door Lock & Unlock	3.5 Second Door Lock & Unlock	0.8 Second Lock , 0.8 Second double Unlock	0.8 Second double Lock , 0.8 Second double Unlock
2	Auto Lock	Ign ON with lock, Ign OFF with unlock	Ign ON and activate footbrake with lock , Ign OFF with unlock	Ign ON with lock , Ign OFF without unlock	Ign ON without lock, Ign OFF without unlock
3	Arm Delay	15 Sec. Delay	30 Sec. Delay	45 Sec. Delay	0 Sec. Delay
4	Siren Chirps	siren chirps when arm, disarm	siren no chirps when arm, no chirps when disarm		
5	Auto Rearm	OFF	Auto rearm on without lock	Auto rearm on with lock	
6	Passive Arming	passive arming off	Passive arming on without lock	Passive arming on with lock	
7	Immobilizer Mode	OFF	ON		
8	Carjack Protection	OFF	Carjack Protection = ON		
9	Channel 1 Output	trunk release each output 1s when active.	each output 30s when active.	latched output	latched output and reset with IGN on
10	Channel 2 Output	2 nd Unlock Hold button 2 2second to active	2 nd Unlock Press button 2 2 times to active	OEM DISARM pulse o/p	each output 30s when active.
11	Channel 3 Output	dome light Channel 3	latched output and reset with IGN on	each output 1s when active.	*time output when active.
12	Channel 3 Time : 1 to 255 sec.	-1 Second	+1 Second	Default 12 Sec	+20 Second (attn: this row only available if row 11-4 is selected)
13	Channel 4 Output	Horn Honk Channel 4	window close Each output 1s , When arming .	OEM REARM pulse o/p	*time output when active.
14	Channel4 Time : 1 to 255 sec.	-1 Second	+1 Second	Default 12 Sec	+20Secomd (attn: this row only available if row 13-4 is selected)

15	Channel 5 Output	Accessory	30 Second Timer	latched output and reset with IGN on	1 Sec. Pulse
		"Start button" 0.8 sec. output (this mode not available for user programming & activating automatically when set 19 "Engine type" = Smart key car")			
16	Channel 6 Output	IGN3 output	latched output	latched output and reset with IGN on	1 Sec. Pulse
17	Disarm with Trunk Pop	a) Disarm when trunk pop b) Shutdown engine when disarm*	a) Disarm when trunk pop b) Shutdown engine when disarm*	a) Disarm when trunk pop b) Shutdown engine when disarm*	a) Disarm when trunk pop b) Shutdown engine when disarm*
		a) No b) No	a) Yes b) No	a) No b) Yes*	a) Yes b) Yes*
		* The idea of "Shutdown engine when disarm" function is to prevent car stealing by advanced electronic gear. So, if you remotely started a car, and a thief fits a code & disarms your system, however the car will stop engine.			
18	Push-Button Start Car waiting for diesel engine to warm-up	Algorithm "A" **	Algorithm "A"***	Algorithm "B"***	Algorithm "B"***
		**Algorithm "A" & Algorithm "B" of Pink & Pink/white power wires – see attached diagrams. Algorithm "B" of Pink & Pink/white power wires – they keep active maximum up to 30 sec. (waiting for diesel engine to warm-up) & deactivates upon rcv "engine running" signal or after 30 sec. This Algorithm "B" may be useful for diesel cars, who's time gap between "warm-up plugs" & "engine start" is unknown for us and may be different depending on weather et.c..			
19	Diesel Glow Plug Delay & Engine start/stop Input	Gasoline engine. (glow plug input can be used for external engine start/stop)	Diesel engine delay: min 10 sec., max 120 sec. (The glow plug wire must connect to negative diesel wait light)	Diesel engine delay: fixed 10 sec. (glow plug input can be used for external engine start/stop)	push-button start change IGN2 O/P to be foot brake output (glow plug input can be used for external engine start/stop)
		+ Concerning shut down or not shut down the engine			
		-If the engine is disarmed & opened the door, and then the handbrake release or remotely  button press, then no need to shut down (no "Start button" pulse).			
		-If the engine is disarmed but not opened the door, then continue running until time up or  button pressed, then shut down (give "Start button" pulse).			
		If the car triggered, immediately shut down (give "Start button" pulse).			
20	Maximum Crank Time	0.8 Seconds	1.2 Seconds	1.6 Seconds	3.6 Seconds Only for RPM.
21	Engine Monitoring	detects engine running by increasing low level of power voltage	detects engine running by increasing hi level of power voltage	detects engine running by R.P.M. (Tach) *Please do NOT cut the light blue loop wire	detects engine running by Alternator(generator) * Please also cut the light blue loop wire
22	Battery Low Start Voltage Level	OFF	11.5V	11.6V	11.7V
23	ACC Output	When remote start success	When hood temperature 50°C	When hood temperature 70°C	5 min before engine shut down
24	Turbo Timer	OFF	1 Minute	3 Minutes	6 Minutes
25	Arm with Engine Running	15Minutes	30Minutes	45Minutes	No limit.

26	Temperature Start	OFF	-5°C	-10°C	-20°C
27	Dataport Protocol	Fortin SL Series	ADS OFA Series		
28	Factory Defaults	Press Button 1 to Reset All Options to Default			

36. Black Loop Wire for Select Type of Transmission

(Automatic gear or Manual gear selection)

not cut – automatic transmission vehicle

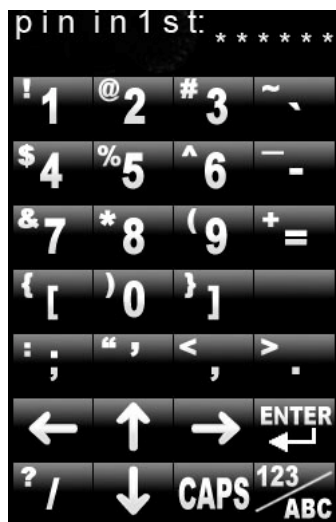
cut – manual transmission vehicle

37. 1 Light Blue Loop Wire for Select rpm or Generator Detection

not cut –if select rpm detection

cut– if select generator detection

38.Set Handset PIN Code:



Press the SYSTEM SET button enter to the PIN CODE setting

PIN code setting:

1. The top of screen will show” pin in 1 st * * * * *”, now press the PIN code you want to set.(Max: 6 digits) Then press the small enter key.
2. The top of screen will show” pin in 2st * * * * *”, now press the same PIN code again. Then press the small enter key.

System will show PIN SAVED on the top of screen which means successful PIN CODE setting.

Open PIN code setting:

1. The top of screen will show” Pin code switch : OFF ”, press the right button will change to “ON” press the enter key.

To cancel the PIN code function of handset:





1. The top of screen will show” Pin code switch : NO ”, press the right button will change to “OFF” press the enter key.

39.Touch-Screen Locate/Find function description


- **Locate/Find page:**

Press the button  to enter the Locate/Find page

- **Select the transmitter:**

Press     button to select different transmitter which you want to Locate/Find/Learning/Name register

- **Register the name for your selected transmitter:**

Press the  name button to register each Locate/Find transmitter name
For example: Select TAG1 to name the 1st transmitter.



Change uppercase/lowercase







Change number/words



ENTER


- **Locate/Find transmitter Code-Learning:**

a. Press     button to select different Touch-Screen transmitter which you want to Learning.


For example:

If you want to transmitter TS1 & TS2 (please mark 1&2 on the 1st & 2nd transmitter to avoid the forgetting) to be Locate/Find each other:

Press the TS1 Locate/Find page  button to select  TS2

you want to do the code-learning, then press  code-learning button.

Then press the TS2 Locate/Find page  button to select  TS1

you want to do the code-learning, then press  code-learning button.




The TS1& TS2 will automatic to do the Locate/Find code-learning each other within 30 seconds.

If learning successful, will display “OK” on the top-right side of the screen also a confirm melody.

Each time only allow 2 transmitters to do Locate/Find code-learning.

Please refer the above example to do the L Locate/Find code-learning for TS1/TS3, TS2/TS3, TS1/TS4, TS2/TS4, TS3/TS4.





b. To do the 1-way transmitter Locate code-learning:

Press the Touch Screen transmitter  code-learning button, within 30 seconds, press one way transmitter button  +  together at the same time.

If learning successful, the Touch-screen transmitter will display “OK” on the top-right side of the screen also a confirm melody.

● **Locate**



a. Press     button to select different transmitter which you want to Locate.



Then press the button  to **Locate**

Activate this function can locate where the missing key is. If there is a successful returned signal receiving from the lost transmitter, will display OK on the top-right side of the handset. If failed, will display LOST.

The transmitter which has been searched will keep beeping and LCD flashing for 60 seconds and also display the name of the call transmitter on the screen.





b. Using 1-way transmitter to Locate Touch-Screen transmitter

Press one way transmitter button  + * together can locate the remote which has been learned.

The TS transmitter which has been searched will keep beeping and LCD flashing for 60 seconds and also display the name (by number or by name depends on the name registration preset) of the 1-way transmitter on the screen.

● **Find**



Press     button to select different transmitter which you want to Find.



Then press the button  to **Find**

Activate this function can trigger the missing transmitter, to be beeping and transmit signal out for 60 seconds.

The finder TS transmitter also will beep and display the range depend on the finder TS how close to the missing transmitter as below:

Distance signals:

Far: Each time beeps twice.

Middle: Each time beeps 3 times.

Near: Each time beeps 4 times.

You can see the distance message (Far/Middle/Near) showed on the display to know whether you are getting closer to the searched transmitter or not.

The transmitter which has been searched will keep beeping and LCD flashing for 60 seconds and also display the name of the call transmitter.

If the transmitter is out of the receive range or have no returned signals from the searched transmitter, system will show “NO FIND” on the display.