TS1-MFT 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	CH3	P11K1	See function program
Activate Channel 4	CH4	P11K2	See function program
Activate Channel 5	CH5	P11K3	See function program
Activate Channel 6	CH6	P11K4	See function program
Remote engine start	hold 2 sec	P1K4	
Remote engine shut down		P1K4	
Arm with engine running	ENGINE RUN	P8K1	Engine run (by ignition key)

Outside view:

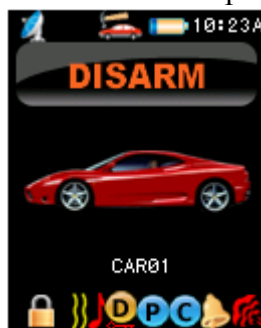**LED**

TS-1

ARM

DISARM

KEY

DISARM

CAR01

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**

DISARM

CAR01

p0

PAGE ONE:

P1K1

P1K2

P1K3

P1K4
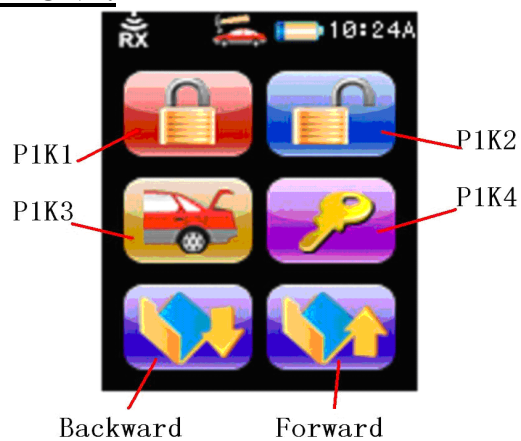
Backward   Forward

Press Forward or Backward button display other page

Other PAGES:

p0, p1, p2, p3, p4, p5, p6

p7, p8, p9, p10, p11

p21, p22a, p22b, p22c, p23, p24a, p24b

p31, p33, p41, p42, p43, p44a, p44b
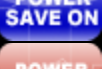
p61a, p61b, p61c, p72, p91, p92

Button define is same as PAGE ONE,such as : P11K3 is CH5 button in p11

**When transmitter received the car alarming will play trigger movies and sound voice:
The move will be stopped,if the key pressed**

Cancel count down: set count down =00:00
Cancel alert time: set alert time =00:00
Cancel PIN code: set PIN code =000000

Button in other page function table:

Buttons	Key	Explain	Buttons	Key	Explain
PARK TIME	P2K1	Set park time	CAR 3	P6K3	Set currently car to 3rd and set car name
PARK AREA	P2K2	Set park position	CAR 4	P6K4	Set currently car to 4th and set car name
COUNT DOWN	P2K3	Set count down time		P7K1	LOCATE/FIND
TRIG	P2K4	Trigger record	LOGO	P7K2	Set car loge in p0
ALERT SET	P3K1	Set alert time		P7K3	Set English menu
12H 24H	P3K2	Set time display		P7K4	Set Spain menu
VIBR. MELODY	P3K3	Set VIBR. Melody and key tone	ENGINE RUN	P8K1	Engine run
DEMO	P3K4	Show DEMO	VOLT	P8K2	Get vehicle battery volt
BACK LIGHT	P4K1	Set backlight	STATUS	P8K3	Status check
LIGHT DELAY	P4K2	Set light delay	C OUT	P8K4	Get the outside temperature
TIME SET	P4K3	Set currently time	DAILY START	P9K1	Set daily start
PIN SET	P4K4	Set handset PIN code	CNT DN. START	P9K2	Set count down start time
1 OPEN CLOSE	P5K1	Open/close garage1	POWER SAVE ON	P9K3	Set power save on
2 OPEN CLOSE	P5K2	Open/close garage2	POWER SAVE OFF	P9K4	Set power save off
3 CLOSE	P5K3	Close Garage		P10K1	Silent arm key
3 OPEN	P5K4	Open Garage		P10K2	Silent disarm key
CAR 1	P6K1	Set currently car to 1st and set car name		P10K3	Arm without ZONE
CAR 2	P6K2	Set currently car to 2nd and set car name		P10K4	car jack key

POWER SAVE ON **In saving mode, the HHU can't remote and receive either**

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 to name the 1st transmitter.

CLEAN   PAGE DOWN   CONFIRM

- **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 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 ![icon] button to select different transmitter ![1] ![2] ![3] ![4] which you want to LOCATE.

  Then press the button ![icon] 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 ![icon]+* 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 ![icon] button to select different transmitter ![1] ![2] ![3] ![4] which you want to FIND.

  Then press the button ![icon] 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.

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 A-3. In other case see program feature table description.

Shock sensor can be trigged after armed in program feature A-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 rearm 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 trigged 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 F-3) 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 B-1.

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 B-2

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 C-2), 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 [icon] button will unlock the driver's door. Hold button [icon] will unlock the passenger's doors (activate "2nd stage Unlock Output").

15. Lock / Unlock door upon ignition

If this function programmed (program feature A-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 [icon] 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 [icon] , 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 [icon] for 2 seconds to activate channel 2. See programmable function (program feature C-2).

19. Channel 3

Press [icon] to activate channel 3, remote Output pulse time of channel 3 is programmable function (program feature C-3).

20. Channel 4

Press [icon] to activate channel 4, remote Output pulse time of channel 4 is programmable function (program feature C-4).

21. Channel 5

Press [icon] to activate channel 5, remote Output pulse time of channel 5 is programmable function (program feature D-1).

22. Channel 6

Press [icon] to activate channel 6, remote Output pulse time of channel 6 is programmable function (program feature D-2).

23. Panic

In arm or disarm mode and ignition key is off.

Hold button [icon] for 2 seconds , system enter panic mode. System arm (with doors locking), siren will sound and parking lights flash for 30 sec. Press button [icon] or [icon] during 30 sec to stopping alarm mode. (System stays at arm mode).

24. <u>Anti-hijack mode</u>

Ignition must be ON and all doors closed.

Press button ![icon], (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 ![icon] 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. <u>Valet mode</u>

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. <u>Override</u>

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. <u>Pin code procedure</u>

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:

- 1 , - 2, - 3, - 4
- 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:

- 1 , - 2, - 3, - 4
- 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 F-2)
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. <u>manual   transmission car safety setting procedure   (for Engine start)</u>

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. <u>Learn tachometer (RPM)</u>
- 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. <u>Remote engine start</u>

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 E-2) 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 fall, 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. <u>Learning codes of remote transmitters</u>

    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. **Programming functions**

FEATURE "A" PROGRAMMING
- turn off ignition
- press override button 3 times
- turn on ignition
- parking lights flash and siren chirps 3 times
- push the Valet Switch 1 times.
- one long chirp with 1 short chirps is heard.
  You are now in the start feature "A" programming mode.
- press and release the transmitter button corresponding
  to the feature you want to program.

Exit feature programming: After 20 sec or turning off ignition system will get out the feature programming setting procedure, parking lights flash 4 times.

Press Transmitter Button	one chip LED 1 pulse Default setting	two chip LED 2 pulse	three chip LED 3 pulse	four chip LED 4 pulse
A1	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
A2	Ign ON with lock, Ign OFF with unlock	Ign ON without lock, Ign OFF with unlock	Ign ON with lock , Ign OFF without unlock	Ign ON without lock, Ign OFF without unlock
A3	ARM delay 15s	ARM delay 30s	ARM delay 45s	ARM no delay
A4	siren chirps when arm, disarm	siren no chirps when arm, no chirps when disarm		

FEATURE "B" PROGRAMMING

      - turn off ignition
      - press override button 3 times
      - turn on ignition
      - parking lights flash and siren chirps 3 times
      - push the Valet Switch 3 times.
      - one long chirp with 3 short chirps is heard.
          You are now in the start feature "B" programming mode.
      - press and release the transmitter button corresponding
         to the feature you want to program.

Exit feature programming: After 20 sec or turning off ignition system will get out the feature programming setting procedure, parking lights flash 4 times.

Press Transmitter Button	one chip LED 1 pulse Default setting	two chip LED 2 pulse	three chip LED 3 pulse	four chip LED 4 pulse
B1 🔒	Auto rearm off	Auto rearm on without lock	Auto rearm on with lock	
B2 🔓	passive arming off	Passive arming on without lock	Passive arming on with lock	
B3 🚗	Immobilizer mode off	Immobilizer mode on		
B4 🔑	Anti-jack off	Anti-jack on		

FEATURE "C" PROGRAMMING

- turn off ignition
- press override button 3 times
- turn on ignition
- parking lights flash and siren chirps 3 times
- push the Valet Switch 5 times.
- one long chirp with 5 short chirps is heard.
    You are now in the start feature "C" programming mode.
- press and release the transmitter button corresponding
    to the feature you want to program.

Exit feature programming: After 20 sec or turning off ignition system will get out the feature programming setting procedure, parking lights flash 4 times.

Press Transmitter Button	one chip LED 1 pulse Default setting	two chip LED 2 pulse	three chip LED 3 pulse	four chip LED 4 pulse
C1	CH1 For trunk release each output 1s when active.	CH1 for channel output each output 30s when active.	CH1 for channel output =latched output	CH1 for channel output = latched output and reset with IGN on
C2	CH2 for 2nd Unlock Hold button 2 2second to active	CH2 for 2nd Unlock Press button 2 2 times to active	CH2 for OEM DISARM pulse o/p	CH2 for channel output each output 30s when active.
C3	CH3 For dome light	CH3 for channel output = latched output and reset with IGN on	CH3 for channel output each output 1s when active.	CH3 for channel output each output 30s when active.
C4	CH4 For Car HORN output	CH4 For window close Each output 1s , When arming .	CH4 for OEM REARM pulse o/p	CH4 for channel output each output 30s when active.

FEATURE "D" PROGRAMMING

- turn off ignition
- press override button 3 times
- turn on ignition
- parking lights flash and siren chirps 3 times
- push the Valet Switch 7 times.
- one long chirp with 7 short chirps is heard.
  You are now in the start feature "D" programming mode.
- press and release the transmitter button corresponding
  to the feature you want to program.

Exit feature programming: After 20 sec or turning off ignition system will get out the feature programming setting procedure, parking lights flash 4 times.

Press Transmitter Button	one chip LED 1 pulse Default setting	two chip LED 2 pulse	three chip LED 3 pulse	four chip LED 4 pulse
D1 🔒	CH5 For ACC output	CH5 for channel output =30s pulse	CH5 for channel output = latched output and reset with IGN on	CH5 for channel output =1s pulse
	"Start button" 0.8 sec. output (this mode not available for user programming & activating automatically when set E1 "Engine type" = Smart key car")			
D2 🔓	CH6 For IGN3 output	CH6 for channel output =latched output	CH6 for channel output = latched output and reset with IGN on	CH6 for channel output = 1s pulse
D3 🚗	a) Disarm when trunk pop b) Shutdown engine when disarm* a) No b) No	a) Disarm when trunk pop b) Shutdown engine when disarm* a) Yes b) No	a) Disarm when trunk pop b) Shutdown engine when disarm* a) No b) Yes*	a) Disarm when trunk pop b) Shutdown engine when disarm* a) Yes b) Yes*
D4 🔑	Algorithm "A" **	Algorithm "A"**	Algorithm "B"**	Algorithm "B"**

* 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.

**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..

FEATURE "E" PROGRAMMING

- turn off ignition
- press override button 3 times
- turn on ignition
- parking lights flash and siren chirps 3 times
- push the Valet Switch 9 times.
- one long chirp with 9 short chirps is heard.
    You are now in the start feature "E" programming mode.
- press and release the transmitter button corresponding
    to the feature you want to program.

Exit feature programming: After 20 sec or turning off ignition system will get out the feature programming setting procedure, parking lights flash 4 times.

Press Transmitter Button	one chip LED 1 pulse Default setting	two chip LED 2 pulse	three chip LED 3 pulse	four chip LED 4 pulse
E1	Gasoline engine. The glow plug wire (diesel wait light) not use.	Diesel engine. The glow plug wire must connect positive diesel wait light. (*min 10 sec., max 120 sec.)	Diesel engine. The glow plug wire must connect negative diesel wait light. (*min 10 sec., max 120 sec.)	**Smart key car** Select smart key CAR IGN2 change to foot brake output
E2	Cranking time 0.8 s	Cranking time 1.2 s	Cranking time 1.8 s	Cranking time 3.6 s Only for RPM.
E3	detects engine running by increasing low level of power voltage	detects engine running by increasing hi level of power voltage	detects engine running by RPM type l*Please do NOT cut the light blue loop wire	detects engine running by Alternator(generator) * Please also cut the light blue loop wire
E4	Each time remote engine running 5 minutes	Each time remote engine running 10 minutes	Each time remote engine running 15 minutes	Each time remote engine running 20 minutes

+ 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).

FEATURE "F" PROGRAMMING

- turn off ignition
- press override button 3 times
- turn on ignition
- parking lights flash and siren chirps 3 times
- push the Valet Switch 11 times.
- one long chirp with 11 short chirps is heard.
    You are now in the start feature "F" programming mode.
- press and release the transmitter button corresponding
    to the feature you want to program.

Exit feature programming: After 20 sec or turning off ignition system will get out the feature programming setting procedure, parking lights flash 4 times.

Press Transmitter Button	one chip LED 1 pulse Default setting	two chip LED 2 pulse	three chip LED 3 pulse	four chip LED 4 pulse
F1	ACC output When remote start success	ACC output When hood temperature 50℃	ACC output When hood temperature 70℃	ACC output 5 min before engine shut down
F2	TURBO off	Turbo timer 1 min.	Turbo timer 3 min.	Turbo timer 6 min.
F3	Running time of Arm with engine running 15 min.	Running time of Arm with engine running 30 min.	Running time of Arm with engine running 45 min.	Running time of Arm with engine running no limit.
F4	Temperature-control starting OFF	Temperature-control starting ON at -5℃	Temperature-control starting ON at -10℃	Temperature-control starting ON at -20℃

FEATURE "G" PROGRAMMING

       - turn off ignition
       - press override button 3 times
       - turn on ignition
       - parking lights flash and siren chirps 3 times
       - push the Valet Switch 12 times.
       - one long chirp with 12 short chirps is heard.
           You are now in the start feature "G" programming mode.
       - press and release the transmitter button corresponding
           to the feature you want to program.

Exit feature programming: After 20 sec or turning off ignition system will get out the feature programming setting procedure, parking lights flash 4 times.

Press Transmitter Button	one chip LED 1 pulse Default setting	two chip LED 2 pulse	three chip LED 3 pulse	four chip LED 4 pulse
G1 🔒	Fortin SL Series	ADS OFA Series		

RETURN TO FACTORY DEFAULT SETTING
       - turn off ignition
       - press override button 3 times
       - turn on ignition
       - parking lights flash and siren chirps 3 times
       - push the Valet Switch 13 times.
       - 3 long chirp is heard,

You are now in the "Return to factory default setting" programming mode.

Press and release the transmitter button , there will be a confirmation **1 short chirps** to confirm the system "**feature A,B,C&D programming all return to factory default setting**".

Press and release the transmitter button , there will be a confirmation **2 short chirps** to confirm the system "**feature E&F programming all return to factory default setting**".

Press and release the transmitter button , there will be a confirmation **3 short chirps** to confirm the system "**pin code return to factory default setting**".

Exit feature programming: After 20 sec or turning off ignition system will get out the feature programming setting procedure, parking lights flash 4 times.

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

Set handset PIN code:

P44

Press the PIN SET button enter to the PIN CODE setting page(P44).
First PIN code setting:
1. The top right side of screen will show ***1ST, now press the PIN code you want to set.(Max: 6
digits) Then press the small enter key ⏎ .
2. The top right side of screen will show ***2ND, now press the same PIN code again. Then
press the small enter key.
   System will show SAVE on the top right side of screen and one confirm melody which means a
successful PIN CODE setting.

New PIN code setting: (If you want to change the old PIN code to a new one)
1. ***PIN, press the old PIN code.(Must press the original setting PIN Code firstly)Then press the
small enter key.
2. ***1ST, press new PIN code you want to change. Then press the small enter key.
3. ***2ND, press the new PIN code again. Then press the small enter key.
   Note: ***1ST & ***2ND must enter to the same digits as a double confirmation, if not, system
will show ERROR and out of PIN SET page.

To cancel the PIN code function of handset:
1. ***PIN, press the old PIN code.(Must press the original setting PIN Code firstly)Then press the
small enter key.
2. ***1ST, press PIN code to 000000, then press the small enter key.
3. ***2ND, press PIN code to 000000 again, then press the small enter key.
 System will show SAVE on the top right side of screen and one confirm melody which
means cancelled the PIN code function already.
 (No need to enter the PIN Code before Disarm the system)

Garage door remote module instruction:

一、 Power input：12VDC（positive in negative out）500mA

二、 Normal mode：LED flash once every 2 seconds, if it's output will flash 1second.

三、 Garage door transmitter learning：Under normal mode, press the learn button on the unit enter to the learning mode：

A、 Learning the 1st transmitter, LED flash once every 4 seconds, press the button once for leaning, if the transmitter has been learned the unit will go into next step(LED flash twice every 4 seconds).

If want to exit the learning more, press the learn button once of over 16 seconds system will exit automatically.

B、 Learning the 2nd transmitter, LED flash twice every 4 seconds, press the button once for leaning, if the transmitter has been learned the unit will go into next step(LED flash 3 times every 4 seconds).

If want to exit the learning more, press the learn button once of over 16 seconds system will exit automatically.

C、 Learning the 3rd transmitter, LED flash 3 times every 4 seconds, press the button once for leaning, if the transmitter has been learned the unit will go into next step(LED flash 4 times every 4 seconds).
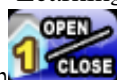
If want to exit the learning more, press the learn button once of over 16 seconds system will exit automatically.

D、 Learning the 4th transmitter, LED flash 4 times every 4 seconds, press the button once for leaning, if the transmitter has been learned the unit will back to the normal mode(LED flash once every 2 seconds). If want to exit the learning more, press the learn button once of over 16 seconds system will exit automatically.

1. Use the single garage button(open/close in one button) can control two garages, press once can open the 1st garage, press again can close the 1st garage. Press once can open the 2nd^{t} garage, press again can close the 2nd garage.

2. Use 2 buttons garage button(open button/ close button) can only control one garage door, press can open garage door, presscan close garage door.

RED/BLACK wire
OPEN/GARAGE2
NO
COM
NO
COM
GREEN/BLUE wire
CLOSE/GARAGE1

learn button

DC12V

38.Wires description

not cut-For auto gear vehicle
cut-For manual gear vehicle

not cut-If select rpm detection
cut-If select generator(alternate) detection

CH 6 "+"IG3 Output

Coil (Tach)

CH5 "-" Aux Output

Black

Light Blue

Temperture Sensor

Hood

Option Sensor 2

Shock Sensor 1

Datalink

CANbus
RS232 or USB

SM200C

Ground Battery   +12V

Ignition Switch

ACC
IG1
IG2
ST

Natral Safty Switch

Starter
M

Closed In Park Or Netural Only

Starter Disable

87
87a
86   30
85

2-Way Transceiver/Antenna

Valet SW

LED

H6 H7 H8   H10 H9 H11 H12

H1   H2   H3   H4

18 17 16 15 14 13 12 11 10
9 8 7 6 5 4 3 2 1

6 5 4
3 2 1

Black < Ground >
Grey/Black < CH6 IG3 O/P >
Purple/White < RPM/Alternator I/P >
White/Black < CH 5 "-" Start button/AUX O/P >
Orange/Gray < "-" Hood Trigger I/P >
Purple/Black < CH 4 "-" Car Horn/Factory Rearm O/P >

Purple < "+" Door Trigger I/P >

Green < "-" Door Trigger I/P >

Purple < + STARTER >
Yellow < + ACC >
Pink < + IG1 >
Red < +12VBATI I/P >
Pink/White < +IG2 >
Red < +12VBAT2 I/P >

CH 4 "-" Car Horn /Factory Rearm O/P

"+" Door SW Input
+12V
"-" Door SW Input   +12V

NC
COM
NO

+12V

CH2 "-" 2ND Unlock /Factory Disarm O/P

Red/White < CH2 "-" 2ND Unlock/Factory Disarm O/P >

White/Blue < CH 3 "-" Dome Light O/P >

Blue/White
Green/White
Blue/Yellow
Green/Yellow
Blue/Red
Green/Red

Unlock COM
Lock COM
Unlock NO
Lock NO
Unlock NC
Lock NC

Central Lock Interface

White/Red < "+" Lamp Power I/P >

White < Lamp R O/P >
White < Lamp L O/P >

Side Lamp
Side Lamp

+12V

87
87a
86   30
85

Trunk release Motor   M

Trunk open Pin Switch

-300mA

Blue < "-" Trunk Trigger I/P >

Grey < CH1 "-" Trunk Release O/P >

Brown < "+" Siren O/P >

Red < SYS +12V I/P >

Brown/White < "-" Start2 O/P >

Orange/Black < Glow Plug I/P >

Orange < "-" Starter Disable O/P >

Black/White < "-" Brake I/P >

Yellow/Red < "-" Disarm O/P >

Siren

Start2 O/P < 300mA >

Glow Plug I/P

"-" Brake Input

"-" Disarm O/P

"+" Brake Input

Orange/White < "+" Brake I/P >