



HA-FM11

ALARM MANUAL



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THIS INSTRUCTION MANUAL IS IMPORTANT.
PLEASE READ IT BEFORE INSTALLING THE UNIT.



HA-FM 11 – Owner’s Guide

Congratulations on the purchase of your state of the art vehicle security system. This system has been designed to provide years of trouble-free operation.

HA-FM 11 is a reliable car alarm system, which provides 2 designs to prevent the car thieving. The first design is to use the loud siren. When any illegal intrusion happens, the siren will sound loudly to warn the intruder. The second design is to use an immobilisation system to disable the engine start. With the peripheral devices, the system can provide the following main protection:

- Ignition trigger: illegally turn IGNITION ON, the alarm will be triggered.
- Boot trigger: illegally open the boot, the alarm will be triggered.
- Door trigger: illegally open the door, the alarm will be triggered.
- AUX trigger: it can be used on any other additional sensor, e.g. bonnet trigger. Illegally open the bonnet, the alarm will be triggered.
- Ultrasonic / Microwave trigger: moving inside the car, the alarm will be triggered.
- Dual zone shock sensor: this sensor is mounted in the vehicle & designed to pick up impacts to the vehicle or glass.

This guide should help you to get the most out of your system. Please take the time to read it prior to using the system.

Installation point to remember

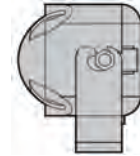
This product represents many years of research and development. It is very sophisticated and should be installed by experienced security installers only. Please do not attempt installation of this product without reading this guide. The system has been designed to provide the ultimate in security, coupled with limitless convenience and expansion options.

Do not disconnect the battery if the vehicle has an anti-theft coded radio. If equipped with an air bag, avoid disconnecting the battery if possible.

IMPORTANT! *Many airbag systems will display a diagnostic code through their warning light after they lose power. Disconnecting the battery requires this code to be erased, a procedure that can require a trip to the dealer.*

Deciding on component locations

Locations for the siren



Some things to remember about mounting the siren:

- Keep it away from heat sources, such as radiators, exhaust manifolds, turbochargers and heat shields.
- Mount it where a thief cannot easily disconnect it, whether the hood is open or shut. Both the siren and its wires should be difficult to find. This usually involves disguising the wire to look like a factory harness.
- When possible, place the siren on the same side of the vehicle as the control module, where its wires will reach the control module's wires without extending them. Always run the wires through the centre of a grommet, never through bare metal!
- Point the siren down so water does not collect in it.

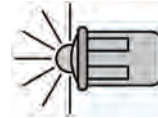
Locations for the control box



Some things to remember about where to mount the control module:

- Never put the control module in the engine compartment!
- The first step in hot wiring a vehicle is removing the driver's side under-dash panel to access the starter and ignition wires. If the control module is placed just behind the driver's side dash it can easily be disconnected.
- When mounting the control module, try to find a secure location that will not require you to extend the harness wires. Keep it away from the heater core (or any other heat sources) and any obvious leaks.
- The higher the control module is in the vehicle, the better the transmitter range will be. If you put the control module under a seat or inside a metal dashboard, range will suffer.
- Some good control module locations: above the glove box, inside the centre console, above the under dash fuse box, above the radio etc.

Locations for the status LED



Things to remember when positioning the Status LED:

- It should be visible from both sides and the rear of the vehicle, if possible.
- It needs at least ½" clearance to the rear.
- It is easiest to use a small removable panel, such as a switch blank or a dash bezel. Remove it before drilling your ½" hole.

Locations for the HAWKGUARD shock sensor

Some things to remember about where to mount the shock sensor:

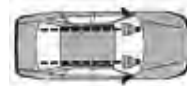
- Never put the shock sensor in the engine compartment!
- Find a spot close to the control module so that the wires do not need to be extended. Keep it away from the heater core (or any other heat sources) and any obvious leaks.

How the shock sensor is mounted is the most important factor in its performance. We recommend 2 methods:

- using double-sided tape or hook-and-loop fastener to mount to a trim panel or an air duct, or
- Wire-tying to a wire harness.

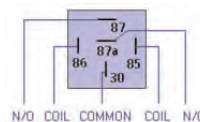
Locations for the HAWKGUARD Ultra Sonic Sensors

Ultrasonic cells should be placed on the left and right side as high as possible so to obtain the best performance.



Inappropriate adjustment for the Ultrasonic sensor may lead to a false alarm. To prevent the false alarm, make sure the sensitivity of ultrasonic sensor is in an appropriate degree. An over adjustment is usually the main reason to cause false alarm.

Locations for the Immobiliser relay



If Immobiliser relay or its connections are immediately visible upon removal of the under-dash panel, they easily can be bypassed. Always make the relay and its connections difficult to discern from the factory wiring! Exposed yellow butt connectors do not look like factory parts, and will not fool anyone! For this reason, routing the Immobiliser relay wires away from the steering column is recommended.

Finding the wires you need

Now that you have decided where each component will be located, you're going to find the wires in the car that the security system will be connected to:

IMPORTANT: *do not use a 12v test light to find these wires! Use a digital multi meter for all testing.*

Obtaining constant 12v



We recommend two possible sources for 12v constant: the (+) terminal of the battery, or the constant supply to the ignition switch. Always install a fuse within 12 inches of this connection. If the fuse also will be powering other circuits, such as door locks, a power window module, headlight control system etc, fuse accordingly.

Finding the 12v switched ignition wire



The ignition wire is powered when the key is in the run or start position. This is because the ignition wire powers the ignition system (spark plugs coil) as well as the fuel delivery system (fuel pump, fuel injection computer). Accessory wires lose power when the key is in the start position to make current available to the starter motor.

How to find (+) 12v ignition (ACC) with your multi meter:

1. Set to DCV or Dc voltage (12v or 20v is fine).
2. Attach the (-) probe of the meter to chassis ground.
3. Probe the wire you suspect of being the ignition wire. The steering column harness or ignition switch harness is an excellent place to find this wire.
4. Turn the ignition key switch to the run position. If your meter reads (+) 12v, go to the next step. If it doesn't, probe another wire.
5. Now turn the key to the start position. The meter display should stay steady, not dropping more than a few tenths of a volt. If it drops close to or all the way to zero, go back to Step 3. If it stays steady at (+) 12v, you have found an ignition wire.

How to find Starter wires 12volts ONLY in crank position

Testing a starter wire is very simple. Start by locating the suspected wire in the vehicle. Next, take your meters black lead and connect it to ground. Next, connect the red lead to the wire you believe is the starter wire. Crank the vehicle. The meter should ONLY show 12V when the key is in the crank position. There should be 0 volts in all other positions. Starter Wires are used in Remote Car Starter Installations.



Using the above testing guidelines, you can test any wire. When testing an accessory like a horn or Interior light in the vehicle, simply activate the accessory with your meter leads in place to get the meter reading. The meter should only read power and ground on accessory items when they are activated.

Finding the door pin switch circuit



The best places to find the door switch wire are:

- At the pin switch: when testing the pin switch, check wire to ensure that it “sees” all the doors. Often, the passenger switch will cover all the doors even if the driver’s switch will not.
- At the interior light: this may not be your best choice if the vehicle has delayed interior light supervision, but it will work in many Hondas, or any vehicle with completely diode-isolated pin switches.

Once you have determined the wire colour, the easiest place to connect to the wire is often at the kick panel, at the windshield pillar, or in the running board. When an easy location is not available, running a wire to the interior light itself is often best solution.

How to find a door pin switch trigger wire with multi meter:

1. Set to DCV or Dc voltage (12v or 20V is fine).
2. In most Fords, fasten the (-) probe of the meter to chassis ground. In most other cars, fasten the (+) probe of your meter to (+) 12v constant.
3. Probe the wire you suspect of being the door trigger wire. If the meter reads (+) 12v when any door is opened, you have found a trigger wire.

Making your wiring connections

There are two acceptable ways of making a wire connection – solder connections and crimp connectors. When properly performed, either type of connection is reliable and trouble-free. Regardless of whether you solder your connections or you use mechanical-type crimp on connections are mechanically sound and that they are insulated.

Cheap electrical tape, especially when poorly applied, is not a reliable insulator. It often falls off in hot weather. Use good quality electrical tape or heat shrink.

- Never twist-and-tape the wires together without soldering
- Never use “fuse Taps”, as they can damage fuse box terminals

System Main Features

1. Arm/lock the door/window up (if optional module HA-64 has been installed)
2. Disarm/unlock the door
3. Trunk release
4. Remote car finding/check the status of car
5. Emergency calling
6. Anti-hijacking
7. Door unlock property reminds (programmable).
8. Re- alarm (programmable)
9. Auto alarm (programmable)
10. Central locking system automation
11. Valet/ Maintain mode (programmable)
12. Emergency alarm release
13. Code learning/delete old code.
14. LED indicator
15. Power off memory
16. Secured Remote engine start-up
17. Manual or Automatic transmission
18. Petrol or Diesel engines

Chapter 1: Package Contents


Component	Quantity
Control unit	1 pcs
LCD remote fobs	2 pcs
Siren	1 pcs
Shock sensor	1 pcs
Engine immobiliser relay	1 pcs
LED indicator	1 pcs
Antenna	1 pcs
Fitting/User manual	1 pcs
Relevant wiring harness	some
USB charging lead (5v)	1 pcs
By-pass module (option)	0 pcs
GSM GPS module (option)	0 pcs

Please note that: the place where the antenna goes, car location, radio wave interference, above all may influence the control distance.

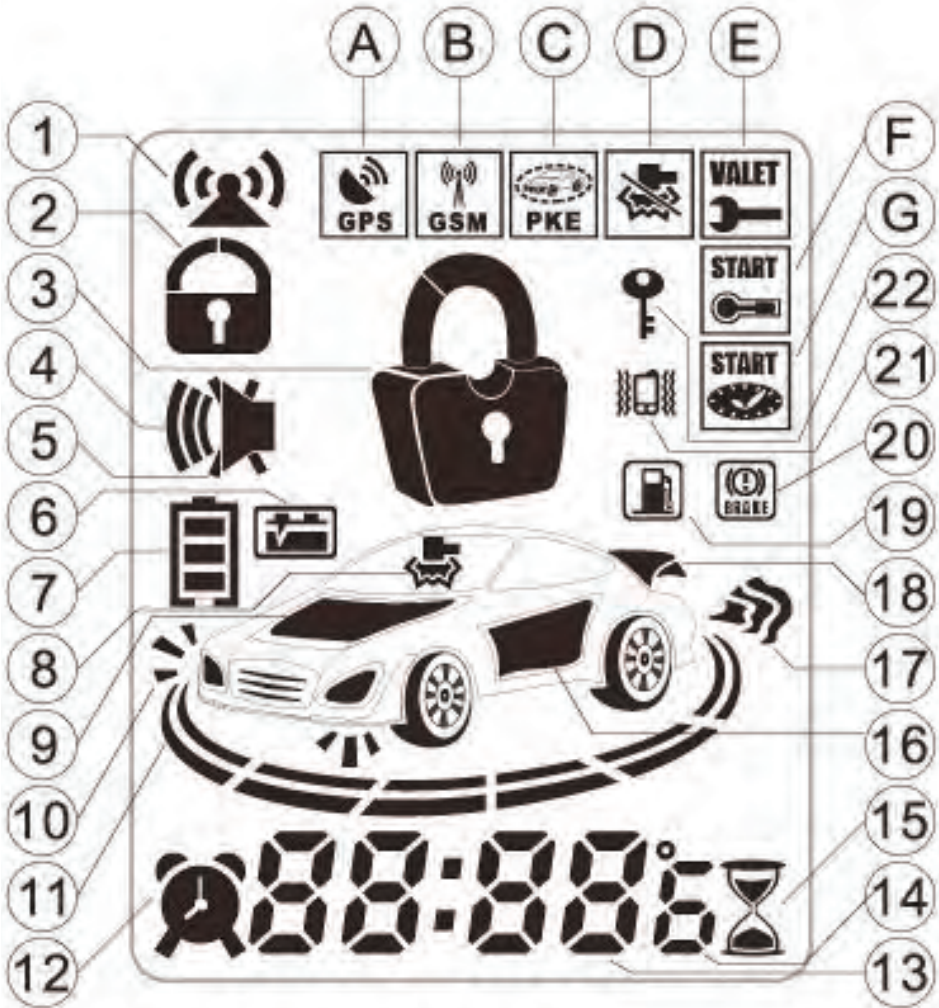
Chapter 2: Technology performance








1. FSK communication technology, anti-interference, long control distance.
2. 64 bit hopping code, code will not repeat every time, anti-scan and anti-intercept specification.
3. The transmitter with quick response system.
4. Alarm detects and reminds, such as: side door, ACC, foot brake.
5. Mute arm function.
6. Vehicle real-time situation awareness and remote car finding function.
7. Emergency call and anti-jacking function.
8. Shock warning, emergency warning if switch is triggered.
9. Pause the warning will not turn off arm status.
10. Prevent from no-ending warning with alarming cycle limited function.
11. Valet /maintain mode.
12. Alarm memory function if powered off.
13. Additional function for LCD transmitter such as setting the time, clock, and countdown
14. LCD transmitter dynamic display car status
15. LCD transmitter with sound & shock warning mode
16. LED indicator display car warning status
17. More programmable function for the icon
18. Suitable for petrol and diesel vehicle
19. For manual car, timed remote engine start.
20. Turbo function






























Chapter 3: LCD Safety Warnings

1. To prevent from extrusion: do not press screen of the remote.
2. To prevent from water damage: keep away from humid environments.
3. To disable location: If you stay in an airport, please make the LCD transmitter power is off to prevent from interference of the aircraft.
4. Radio wave and temperature interference: When the transmitter is close to the radio wave device or if the temperature is too low or high, control distance may be affected
5. Charge for power: if the icon  shows on the remote, the power is too low.
6. Maintenance: Do not open the remote or change the component yourself, please contact with the dealers if you have any questions.

Chapter 4: The Instruction of the screen's icon for LCD transmitter



- A.  GPS mode (reserved)
- B.  GSM mode (reserved)
- C.  PKE mode (reserved)
- D.  Shock sensor disable
- E.  Valet/maintain mode
- F.  Low temperature engine start
- G.  Set time for remote engine start








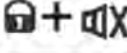
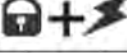
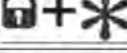
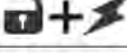
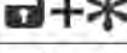
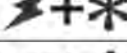
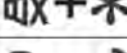

1.  Command sending indicate
2.  Central door locked indicate ( lock,  unlock)
3.  Arm / disarm status ( arm,  disarm)
4.  Sound and light warning model
5.  Mute disarm model
6.  Ignition (ACC) to ON
7.  Battery level indication
8.  Shock sensor warning
9.  Car engine hood
10.  Direction light ON
11.  Arm status
12.  Clock
13.  **88:88** Time
14.  Temperature/voltage indicate ( Celsius  Fahrenheit  voltage)
15.  Countdown timer
16.  Side door open
17.  Engine start
18.  Trunk release
19.  Oil meter
20.  Car hand brake not pull up
21.  Mute & vibration model
22.  LCD Keypad lock mode

Chapter 5: Function of LCD remote control button

1. Button operation description

Operation	Meaning
Quick press	pressing the button in 0.5s
Press and hold	pressing the button over 3 s
Double press	pressing the button two time
Continuous press	press the button many times
Synchronous press	press two or three button at the same time

2. Function menu of LCD transmitter button

Button	Time	Function	
Single button	 0.5s	Sound & light alarm setting, lock the door	
	 3s	Sound & light car searching , emergency calling if car is running	
	 0.5s	Disarm, unlock the door	
	 3s	Trunk release & LCD transmitter power ON	
		0.5s	mute arm status setting , central door locked;
		3s	car searching with light flash ; it's anti-hijacking function if car is running
		0.5s	Check car's status, temperature and voltage.
		3s	Emergency call
		0.5s	Indicate the electricity percent;
		3s	Exit/enter time adjustment mode (time, clock, countdown)
	Combined button	 0.5s	Lock up /release the button
		 0.5s	Mute and shock mode ON/OFF
 0.5s		Exit/enter the cursor setting mode	
 0.5s		Centigrade/Fahrenheit switching	
 0.5s		Exit/enter time adjustment mode (time, clock, countdown)	
 0.5s		Count down setting	
 3s		Transmitter learning code	
 3s		Transmitter ON / OFF	

Chapter 6: Programmable function of screen Icons

1. Button operation description










The icons	The function setting			ACC/ON	Footbrake	Factory setting
1. 	Reserved	-	-	-	-	-
2. 	Reserved	-	-	-	-	-
3. 	Reserved	-	-	-	-	-
4. 	Shock sensor disable	OFF	ON	-	-	OFF
5. 	Valet/maintain mode	OFF	ON	✓	-	OFF
6. 	Reserved	-	-	-	-	-
7. 	Reserved	-	-	-	-	-
8. 	Reserved	-	-	-	-	-
9. 	Reserved	-	-	-	-	-
10. 	Reserved	-	-	-	-	-
11. 	Side door detection delay	OFF	ON	✓	-	ON
12. 	Reserved					
13. 	Direction light warning after door open	OFF	ON	✓	-	OFF
14. 	Power off when set the anti-hijacking mode	OFF	ON	✓	✓	OFF
15. 	Reserved	-	-	-	-	-
16. 	Pneumatic lock mode	OFF	ON	✓	✓	OFF
17. 	set the auto alarm/re-alarm	OFF	ON	✓	✓	ON
18. 	Reserved					
19. 	In arm reminding	OFF	ON	✓	-	ON

Note: The (✓) means need turn the ACC to ON or hold the foot brake. The (-) means to ignore.

Various Programming Modes:





Note: Do not enter programming mode next to the Antenna

2. The instruction of the icons operation: (How to enter Programming Mode)





- a. 1st step: base on above menu, to make sure switch ON ignition (ACC), and hold the foot brake,
- b. 2nd step: Press the button + at the same time, enter the icon setting mode. Icon setting mode will exit within 10s if no buttons pressed.
- c. 3rd step: quick press the button  to choose the desired icon , the desired icon will flash.
- d. 4th step: If need to set the parameter, quick press the  or , then press the button  to set up
Or press the button  to exit. Main unit sound “DU” means it has exit. The “DU DU” sound means it has set. LCD transmitter sounds “Di” to indicate it is exit, and “DI DI” to indicate it is set.
- e. 5th step: Setting will exit automatically if no operation over 10s, or Press the button + to exit.

Through above operation from the above menu, it can realise the programmable function as below:


(1) Shock sensor's sensitivity adjustment



Choose the icon , then press the button  or , the digital on screen will change between 1-3. Digital “1” is high shock sensor. Digital “2” is medium shock sensor . Digital “3” is Disable shock sensor totally . If shock sensor Disable, icon “” will keep display on screen.

(2) Valet mode / Maintain mode










Turn the ignition (ACC) to ON, choose the icon , quick press the button  to enter valet/maintain mode, or quick press the button  to exit valet mode. When enter into the valet mode, the LED indicator will stay ON, the screen show icon . Then it only can lock or unlock the car from transmitter. This function is use in car washing or car need repair, prevent from any fault warning.

(3) Inductive engine start in low temperature




Ignition (ACC) turn to ON, choose the icon , press button

, the digital is change between $-5^{\circ}\text{C}\sim-30^{\circ}\text{C}$, press  to enable this function or press  disable it .













(4) Timed engine start





Choose icon , timed engine start function is disable if the LCD screen show , press , screen will show time (etc ), then press  or  to set the time, press  can change hours from minutes, press  enable timed engine start function or press  cancel the function. Engine will start at desired time when timed engine start enabled.

(5) Diesel engine mode

Ignition (ACC) turn to ON, press foot brake, choose icon , press  enable diesel engine car mode or press  cancel. If select Diesel model, need to connect to the pre-heat light sensing then it work, the engine ignition time will match diesel car automatically.

(6) Automatic transmission vehicle model / Engine detect select / remote safe start

Ignition(ACC) turn to ON, press foot brake, choose icon , if screen show  means smart engine function is disable, press  button, remote control will show number (etc ), then press  set hours or press  set the minutes; press  select manual car or automatic car model or  cancel. If the car is automatic car, select automatic transmission vehicle model (hours number is  or ), no need safe start, if car is manual car, must select manual model, (hours number is  or ), manual car need safe engine start .

Engine status detect model: can select external or system distinguish automatically, if select external distinguish, need to engine status checking wire connect to + or oil light connect to +, (hours number is ~), this method is more accuracy; if select system distinguish automatically model, you can no connect the engine status checking wire (hours number is ~). System will judge the engine is start or not according data, but this method is not accuracy enough.

Remote Engine start with Automatic gear / Remote Engine start with Manual gear

For manual gear car, need to follow safety procedure before remote engine start.

Procedure for engine start with Automatic gear:

minutes number set as : 1, park the car, pull the handbrake before engine cut off, don't step the foot brake, remove ignition key, let the engine keep running, open car door within 2 minutes, close car door, engine cut off automatically, Remote engine start procedure set successfully.

Procedure for Remote Engine Start Manual Gear:

Minutes set as : 2, park the car, pull the handbrake before engine cut off, don't step the foot brake, long press ⚡ button 3 seconds, remove ignition key, let the engine keep running, open car door within 2 minutes, close car door, engine cut off automatically, Remote engine start procedure set successfully.

Digital function set form

Bit	hours				minutes	
Digital	1:	2:	3:	4:	: 1	: 2
Function	manual car	automatic	manual car	automatic	pull the handbrake, don't step the foot brake, take the key out, engine keep running status	pull the handbrake, don't step the foot brake, long press ⚡ button 3 seconds before take the key out, engine keep running status
model	Engine status detect by external distinguish		Engine status detect by system automatically			

(7) Set the ignition time and pre-heat time before remote engine start

Ignition (ACC) turn to ON, press the foot brake, choose icon ⚡, show the 2:10 in screen, press ⏸ set the ignition time (hour's position) or press ⚡ set the pre-heat time (minute's position), press the button ⏻ to enable the engine start function or press ⏻ to disable the function.








Ignition time: select the right ignition time is good for remote engine start the car, should increase the ignition time if the car engine is difficult start.

Pre-heat time: After car engine start success, engines keep pre-heat 5-35 minutes








Engine start function ON/OFF: If you no need remote engine start function, after press ⏻ cancel it, system will prohibit this function, If need activate the function, press ⏻ after ignition time and pre-heat time setting success.

Bit	Hours					minutes	
Digital	1	2	3	4	5	-	5~35
Ignition time (Petrol car)	0.6s	0.8 s	1s	1.2 s	1.6s	Adjust ignition time automatically according to temperature	Engine keep pre-heat 5~35 minutes after car engine start
Ignition time (diesel car)	3s	4s	5s	6s	7s		




(8) Side door detection delay

Ignition (ACC) turn to ON, choose icon , if screen show icon , means side door detect delay is disable, press  button, transmitter will show the number (such as 15), press  button (add) or  button (minus) to adjust the time, the time can adjust in 5~50 seconds, press  enable the function and press  cancel. After car arm set success, some car door signals need delay of a period of time, then it reset. In case of malfunction warning, please set a right car door delay detect time to avoid malfunction warning.

(9) Turbo charge




Ignition (ACC) turn to ON, step foot brake, choose icon , if the screen show , it means Turbo charge function is disable, press  button, the screen will show number (etc. 3); quick press  button (add) or  (minus), the number is change from 1~5, it means the time engine keep running is 1~5 minutes after engine cut off, press  enable this function and press  disable. This function is for the car with turbo charge.

(10) Direction light warning after door open

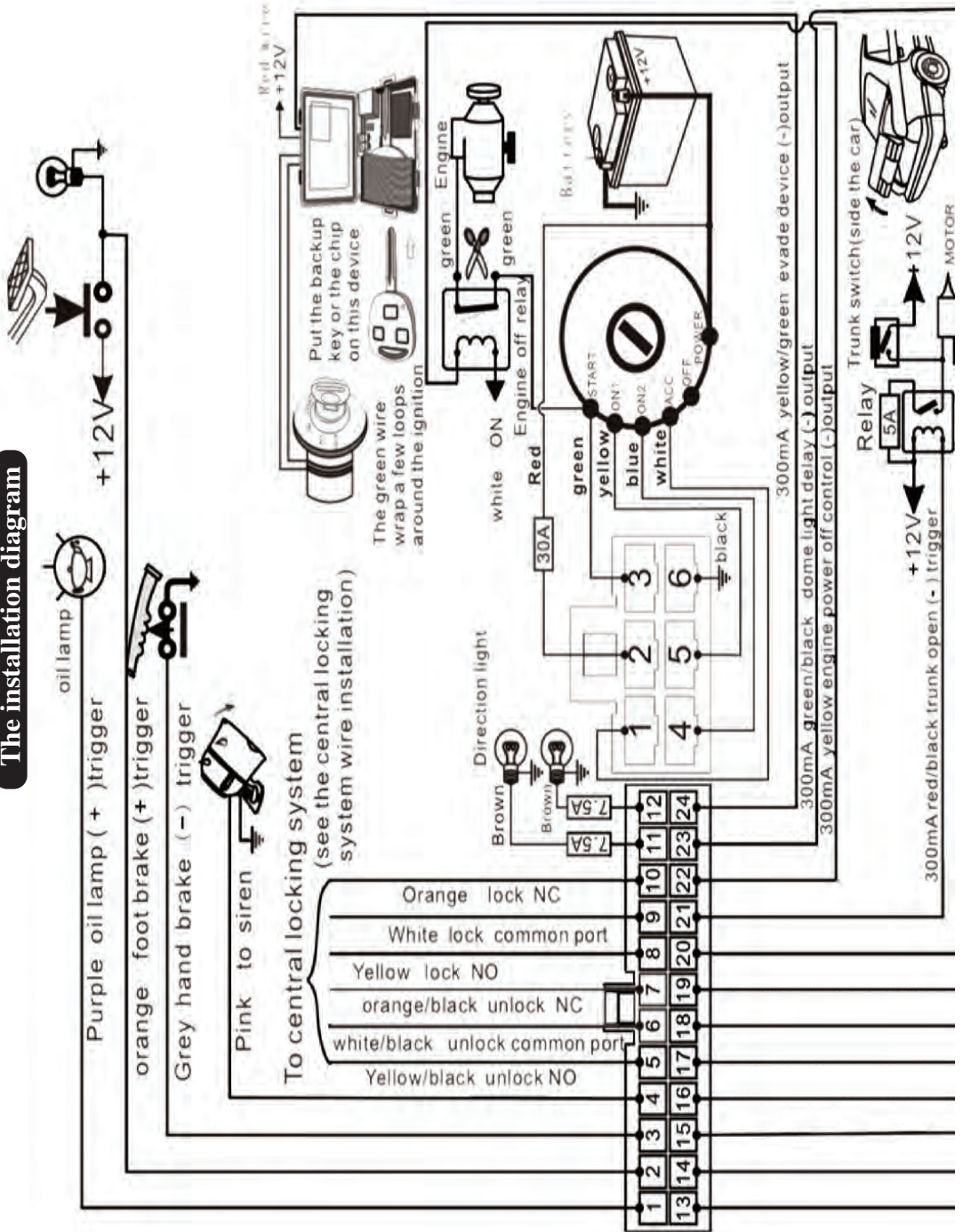
Turn the ignition (ACC) to ON, choose the icon , and quick press the button  to activate the function, or press the  button to deactivate it. After the function activate, the direction light would flash for 30 seconds to warning the passing car if open car door.

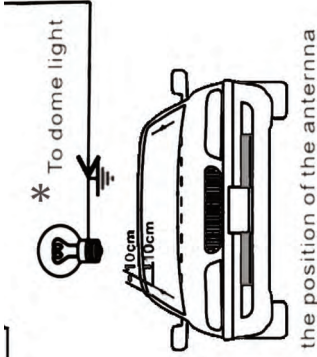
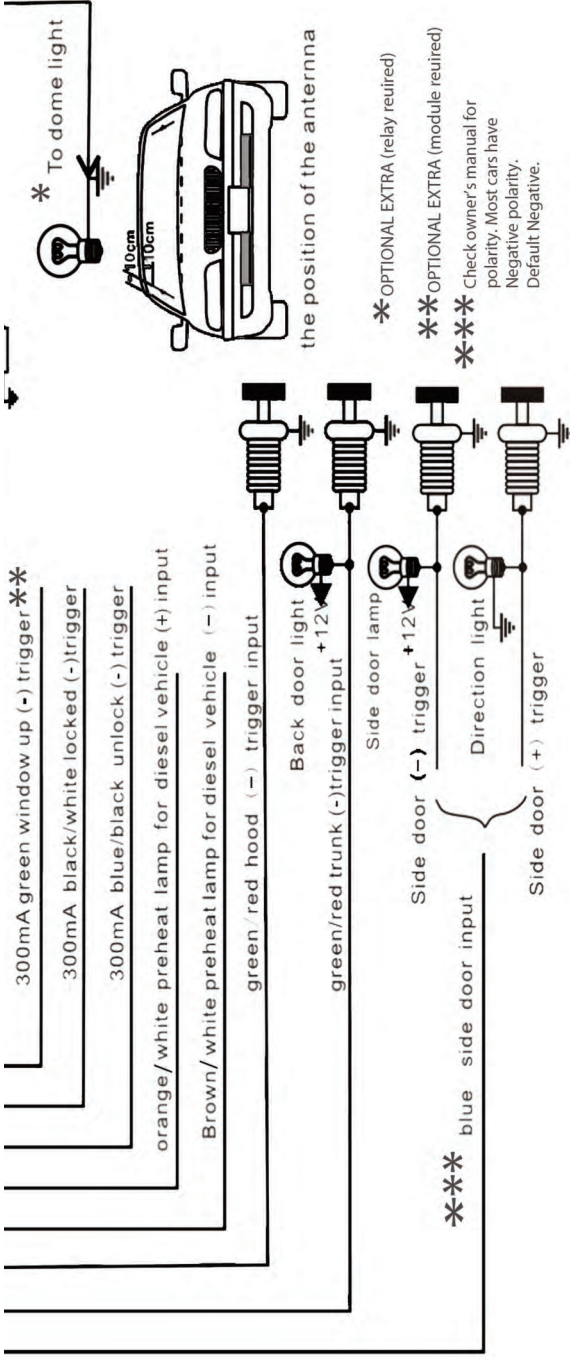
Please note that this function as OFF for factory default.

(11) Anti-hijacking power off function

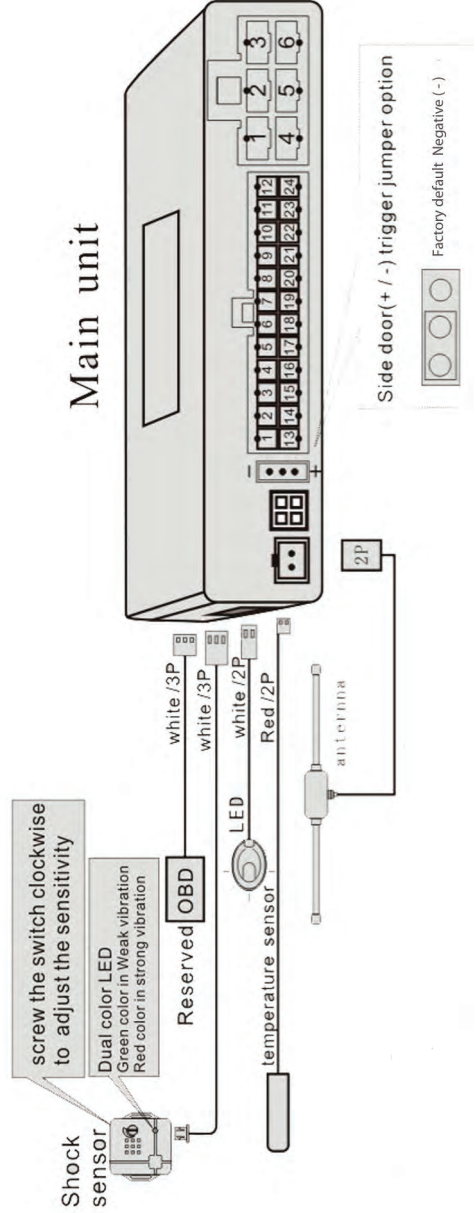
Turn the ignition(ACC) to ON, and press and hold the foot brake, then choose the icon  on the screen, quick press the button  enable anti-hijacking function, press the  button to disable. After activate the function, the engine would be cut off with 30s. Power will not cut off for factory default because it's dangerous if the car are running with high speed.

The installation diagram








Main unit




(12) Pneumatic lock mode

Turn the ignition (ACC) to ON, press and hold the foot brake, choose icon  on the screen, then quick press the button  to enable pneumatic lock mode, or press the button  to disable it. You should choose pneumatic lock mode if your car with pneumatic lock (not electric lock). Central door lock output commend is 3.5s for pneumatic lock, otherwise, 0.5s for electric lock. Factory default 0.5s.

(13) Re-alarm model and Auto alarm model







a) Re-alarm means:

If the system is in arm status, while you press the button , now the car are in disarm status, if the car door not open within 25 seconds, the system would recognise alarm accidentally disarmed then it would in arm automatically. Siren would Sound “DU” once to indicate that has been in arm status. If car original status is mute arm mode, the siren wouldn’t chirp.

b) Auto alarm means:





If car engine switch off and open and close the door, but not press lock button, the system would enter into the mute alarm status automatically after 50 seconds, but the central door lock would not lock up.

Operation:


Turn the ignition(ACC) to ON, press and hold the foot brake, choose the icon , these function are disable if the LCD screen show *OFF*, press , will show *1* on the screen, then quick press  (+) or  (-), the digital is change from *1* and *2*. Digital *1* means activate the re-alarm function; digital *2* means activate the auto alarm and Re-alarm both. Quick press the button  to activate these two functions, press the button  deactivate it.

Chapter 7: Using for the first time (Basic Operations)




(1). Arm/lock the door/window up (if HA-64U Module installed)

Quick press the button  to enter sound & light warning status. It shows icon  on the screen of LCD transmitter. Siren “du” 1 time, direction light flash 1 time, LED indicator flash 1 time. LCD transmitter “di” 1 time. Siren would sound if car is triggered. Quick press the button  to enter mute alarm status, it show  on the screen of LCD transmitter. Direction light flash 1 time, LED indicator flash 1 time. Siren wouldn't sound if car is triggered.




(2) Disarm/unlock the door

Quick press the button  to disarm, the siren would “Du Du” 2 times, direction light would flash 2 times. LCD transmitter “di di” 2 times.



(3) Remote trunk release

Press and hold the button  for 3s to open the trunk, it shows the icon  on screen of remote. When open the trunk, the direction light flash for 3 times. If the car are in arm status before open trunk, the shock sensor would disable for 10 min to prevent form any faulty warning. You can press the button  to enable the shock sensor's function. If the trunk with detecting switch, shock sensor will ON automatically after trunk close.


(4) Remote car finding/check the status of car

- A. Quick press the button , LCD transmitter would show car's in-time status and voltage
- B. Press and hold the button  3 seconds, sound & light car finding.
- C. Press and hold the button  3 seconds, car finding with light flash.

(5) Emergency calling/Panic mode





When driving the car, Press and hold the button  3 seconds, or press and hold the button  3 seconds, car siren would chirp up for 25s. The direction light is flashing too. You can press any button to cancel panic mode.

(6) Anti-hijacking

When the car in driving, press and hold the button  for 3s, the siren would sound loudly, direction light flashes speedy. Engine would not cut off, it enter the alarming status 25 seconds later. You can program it whether cut off the engine or not after 25s (see section 14th.from the “instruction of the icon”).

(7) Door open reminder (programmable).


In arm status , if the door (hood , trunk) don't lock property, or the hand brake not pull up, after 5 seconds the siren would sound du du du 3 time, direction light flash for 3 time to reminds the user. On the LCD transmitter, it will sound "di di di" three times, and shows the icon as below:

1.  The icon flashing indicate the side door is not closed property
2.  The icon flashing indicate the trunk is not close property
3.  The icon flashing indicate the hood is not close property
4.  The icon flashing indicate the brake is not pull up.

If the door (trunk, or hood) will be closed, the system will not alarming, if still not closed after 15s, siren sound alarm , the direction light flash , and LCD transmitter will flash the place where not close well .

If the issue not solved, the system would keep warning for 4 min.



(8) Re- alarm (programmable)

If the system is in arm status, while you press the button , now the car are in disarm status, if the car door not open within 25 seconds, the system would recognise that's a accidental disarm then it would in arm again automatically. Siren would Sound "DU" once to indicate that has been in arm status. If car original status is mute arm mode, the siren wouldn't chirp.

(9) Auto alarm (programmable):

Car engine switch off and open and close the door, if not press lock button, the system not in arm status, the system would enter into the mute alarm status automatically after 50 seconds, but the central door lock would not lock up.

(10) Central locking system procedure (Ignition locking / unlocking)

When the car in driving, quick press the button , central locking system would be locked. And press the button , the central locking would be unlocked. After car drive 10s , press the foot brake , the central locking system would lock 1 time automatically, it would not be locked if the door is not closed property; if open car door while press the foot brake , after close car door , door will lock up automatically while press the foot brake. After car engine switch off, car door will unlock automatically.



(11) Valet/ Maintain mode (programmable)

When the car needs to be washing or maintain, it can set the function to prevent from any faulty alarming. It can be program from LCD transmitter to set the function, for detail operation, please see the Chapter 6: Programable function of screen icon


(12) Emergency alarm release (Disarming without LCD)

If remote control lost, use key to open car door alarm will sound, you should press and hold foot brake, turn the ignition key from OFF to ON 8 times in 10 seconds. The last time is stay in ON position, 3 seconds later, alarm will deactivate.

(13) New Code learning/delete old codes.

If want to learn the code for the LCD key, please follow the step as below:
In disarm status, open the side door, hold the foot brake, turn the ignition (ACC) from ON to OFF position for 5 times in 10s, and stay in ON position at last, main CPU box will “du du” 2 times, direction light flash 2 times, it means system have enter into code learning mode, please use LCD transmitter press  button + * 3 seconds, or use one way transmitter  3 seconds. If you hear car sound “du”, direction light flash 1 time, transmitter sound with music, it means learning code success. 1 main unit can learn 2 piece of transmitter.

(14) LED indicator

 LED indicator has several type of flashing pattern to indicate different status. If you forget to take the remote, you can also check car status from LED flashing pattern.

The status of the system	The LED flashing pattern
Valet/maintain mode	LED will be on constantly
Disarm mode	LED OFF
Arm status	LED flash 2 times
Has been shock/microwave sensor triggered	LED flash for 3 times
Has been door switch triggered	LED flash for 4 times

(15) Power off memory

If the power is OFF, the system would re-set to original status after power ON.

Status before the power OFF	Status after the power ON
Sound& light warning	Sound& light warning
Mute in arm status	Mute in arm status
Disarm status	Disarm status
Valet/maintain mode	Valet/maintain mode

Remote Engine Start

Warning! Safety first

When properly installed, this system can start the vehicle via a command signal from the remote control transmitter.

Therefore, never operate the system in an enclosed area or partially enclosed area without ventilation (such as a garage). It is the user's sole responsibility to properly handle and keep out of reach from children all remote control transmitters to assure that the system does not unintentionally remote start the vehicle. **THE USER MUST INSTALL A CARBON MONOXIDE DETECTOR IN OR ABOUT THE LIVING AREA ADJACENT TO THE VEHICLE. ALL DOORS LEADING FROM ADJACENT LIVING AREAS TO THE ENCLOSED OR PARTIALLY ENCLOSED VEHICLE STORAGE AREA MUST AT ALL TIMES REMAIN CLOSED.** These precautions are the sole responsibility of the user.

Use of this product in a manner contrary to its intended mode of operation may result in property damage, personal injury, or death. (1) Never remotely start the vehicle with the vehicle in gear, and (2) Never remotely start the vehicle with the keys in the ignition. The user must also have the neutral Safety feature of the vehicle periodically checked, wherein the vehicle must not remotely start while the car is in gear. If the vehicle starts in gear, cease remote start operation immediately and consult with the authorized dealer to fix the problem.

OPERATION OF THE REMOTE START MODULE IF THE VEHICLE STARTS IN GEAR IS CONTRARY TO ITS INTENDED MODE OF OPERATION. OPERATING THE REMOTE START SYSTEM UNDER THESE CONDITIONS MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY. YOU MUST IMMEDIATELY CEASE THE USE OF THE UNIT AND SEEK THE ASSISTANCE OF AN AUTHORIZED DEALER TO REPAIR OR DISCONNECT THE INSTALLED REMOTE START MODULE. HAWK CAR ALARM WILL NOT BE HELD RESPONSIBLE OR PAYS FOR INSTALLATION OR REINSTALLATION COSTS.


Chapter 8: Remote engine start function:

The product with remote engine start, timing engine start, low temperature engine start, with turbo charge function. The engine can't remote engine start in below status:

1. The engine has been in started status or the key put in ON position.
2. Hood has been open
3. Hand brake not pull up.
4. For manual shift car, not make a success appointment.

Procedure for remote engine start (for manual gear shift car)

Make sure to follow procedure for remote engine start every time. That's for safety. The operation is as follows:

1. When park the car (engine still running), it should put shift lever in neutral gear;
2. Pull up the hand brake, and release the foot brake.
3. Press the button  on remote for 3s. Ignore this if it is auto reservation automatically model. For Program please see the detail as section 9 of <Instruction of the icon >.
4. Take out the ignition key, the engine still in running, and keep 2 min
5. Get out the car in 2 min, and close the door, the engine would stop,

To cancel Remote Engine Start Procedure:



1. Hold the foot brake and take out the ignition key.
2. If have make reservation succeed already, put the ignition key to start the engine would cancel it.
3. Open the door would cancel it.

Reservation failure in follow case:

1. After 2 min, the engine cut off automatically
2. Take out the key while hold the foot brake (these two step can do at the same time)

(2) Remote start/stop engine Procedure

If need to remote start engine would need to satisfy below condition:

- a. The ignition key not in ON position
- b. For the manual gear car, need make a safety procedure start.
- c. For automatic shift car, it needs to put the Shift lever to P or N position Press the button  for 3s, the direction light flash for 2 times to enter engine start Mode, after 5s, the engine would be started. If successfully started the car, it show the icon  on screen of remote. The direction light flash for 2 times to indicate the engine has been started. There are 3 chances if the first

time engines start failure. If failure at the fourth time, it would show OFF icon on screen. While remote start the engine in arm status, it need to disarm the car before get into the car, and put the key from ACC to ON, but no need to ignition again, do not forget to hold the foot brake before your drive the car. After remote start the engine, if the user still not get into the car and the time is up, engine would turn off.

(3) Pre-heat the engine before remote start engine (Available for diesel vehicle only)

The function is available for diesel vehicle which need to preheat the engine. It need to set up DIESEL vehicle mode from transmitter. For details please check the Section 8 of <the instruction of the icon setting>. Before install the system, please make sure if the engine need to preheat, and then connect the preheat light response wire base on negative/positive trigger.

(4) Turbo charge engine protection (programable)

The function available for the vehicle with turbo charge engine. The function can keep the engine run for 1 ~ 5 min after taking out the ignition key (can be programmable). When the engine at idle running state, the temperature from turbo charge engine would Low down, to prevent from engine temperature returning after the engine turn off, and effectively reduce oil coking that maybe damage the engine. When taking out the ignition key, the engine would keep running for 1 to 5 min, at the moment, to hold the foot brake, the engine would turn off. That mode fit for manual shift vehicle. For program, please see the chapter 12 of the instruction of the icon.

(5) Under the low temperature to remote engine start

When met a low temperature condition, it can pre-set a temperature value to remote the engine, when the temperature lower than the pre-set value, that detected by the temperature sensor, the engine would start. The function can be program from remote, for details please check the section 6 of <Instruction of the icon setting >

Attention: 1. if the engine starts failure because of some mistake, such as not meeting condition for engine start, the temperature sensor broken, or failure engine. Start for 4 time, or etc. Remote engine start in low temperature automatically cancel. 2. Reply on temperature sensor, the time interval of continuously remote start engine is depending on the frequency of the cooling engine.

(6) Timed remote engine start. (Programmable)





The system has the programable function to timed remote start engine, pre-set it from the remote, for preheating the engine. For details, please check the section 7 of (the instruction of icon setting > Such as, it pre-set the time of 8:00 while the real time is 7:30 that the engine would Auto start in 8:00. And also, if the real time is: 7:30, it pre-set the time of 7:30, that would be started after 24 hours.








Attention: *If the car does not satisfy remote engine start conditions, then engine would not start.*

Important! *It is unsafe to operate a vehicle's motor in a garage or other closed off area. Breathing the exhaust from the vehicle is hazardous to your health. Never activate the remote start in an enclosed space.*


Chapter 9: Alarming function:

1. Shock sensor alarm (programmable)

In arm status, if shock sensor activated, siren will “du du” 10 times (no sound if car in mute arm status), direction light flash, transmitter will “di di” sound, icon  +  flash; If shock sensor activate again in 15 seconds, siren sound 25 seconds (no sound if car in mute arm status), direction light flash, LCD transmitter sound “wu wu wu” alarm sound and vibrate,  +  icon flash. Shock sensor alarm function will invalid if in the status below:

- (1) In arm status, if trunk release, shock sensor function will disable 10 minute, shock sensor function will enable automatically after closing trunk and press  button.
- (2) Avoid false triggering of shock sensor. About detail, please check <<icon program function >> We can set the shock sensor function with transmitter, select the icon , press  (add) button or  (minus), digital 1 means weak shock function, digital 2 means disable the shock function totally. If need shock sensor, press , if no need, press . If disabled shock sensor, the icon  will keep shown in screen.





2. Emergency alarm

In arm status, below behavior all cause alarm: Open bonnet, trunk release, and open car door, step on brakes, ignition (ACC) in ON position, engine start. Siren sound and signal Lamps twinkling 25 seconds, LCD transmitter twinkling, and the position Icon  will twinkling too, LCD transmitter will alarm in cycle if the alarm not release .



Car status picture:




Alarm cycle detail, please see below list:

Alarm trigger type	Icon	Cycle detail	Sound & light arm status	Mute arm status	Max cycle times
Weak shock		sounds for 5s; light twinkling 5s	With siren sound	Mute	8
Strong shock		sounds for 5s; light twinkling 5s	With siren sound	Mute	8
Car door		sounds for 5s; light twinkling 5s	With siren sound	Mute	8
ignition lock button		sounds for 5s; light twinkling 5s	With siren sound	Mute	8


3. Warning pause.(Siren silence during alarm)

In arm status, if car are warning, quick press the button , it can pause the warning, quick press  to release warning.

4. Alarm memory.




In arm status, if shock sensor activated, car door open, press foot brake, ignition (ACC) turn to ON, all these operation will be memory. If press , LCD transmitter will sound “wu wu wu” , On the screen the correspond cursors would flashing for 10s. If open car door, the siren DU DU DU 3 times mean car ever been shock, if the siren DU DU DU DU 4 times means someone has been forced to open car

5. Detection signal shield










In arm status, if any sensor or detection signal (side door, foot brake, trunk, ignition (ACC) to ON) invalid (means the signal is ON long time), the system would warning 4 minutes. If the detection signal would be triggered again, it will also warning for 4 min. If it is alarming because of the detection switch's faulty, press the button  for 3s, that would shield the faulty trigger switch, it would be recover after the switch is okay.



Chapter 10: LCD Transmitter function:



1. LCD Transmitter power ON/OFF

Press and hold the button  +  for 3s to turn ON / OFF the LCD transmitter. The transmitter will enter into sleep status and not work after transmitter power off, if need turn ON, please press  for 3s.




2. Clock/alarm clock/count down

Press the button  +  at the same time or just press  for 3s, the remote control sound “di di” 2 times to enter time adjustment mode. Press the button  means “+”, the digital flash and it would adding a number at pressing 1 times. Keep pressing would keep adding the number. Press the button  means “-”, the digital flash and it would minus a number at press 1 times, keep pressing would keep minus the number. Press the button  means selects the functions from the icon, every pressing on the button 1 time to valid the icon. If exit from the adjustment mode, press the button 3 seconds. Press the button  +  at the same time, or long press  for 3s, means exit from the adjustment mode, or it will exit automatically if no operation 10 seconds.





No.	1	2	3	4	5	6	7	8
function	Set The Time		 Set The alarm clock			 Timing Setting		
	Hour	Min	Hour	Min	OFF/ON	Hour	Min	OFF/ON

Note: The time base on 24-hour system. After set the alarm clock , it would be alarming for 30s when to the pre-set time. Press any button to stop; otherwise it would alarming 30 seconds again for 4 minutes later.  Timing run with count down manner, press the button+to select the time, it can recycle operation.



3. LCD Silent /Vibrations mode.

If you are in meeting, LCD transmitter can set silent/ vibrations model, all the indicate from transmitter only with vibration. Setting method: quick press  and  together, if LCD transmitter with vibration and icon twinkling 2 times, it means silent/vibration model set success. If you hear “di di” sound two times, icon  disappear, means silent/vibration model have cancel.





4. LCD keypad Lock mode

In case of LCD transmitter error operation, you can use keypad lock mode, any button is invalid after setting success. Setting method: quick press  +  button together , if remote control “di” 1 time or vibrate 1 time, and LCD transmitter icon  twinkling, it mean setting success; If remote control “di di ” 2 times or vibrates 2 times, icon  disappear ,it mean keypad lock mode cancel.

5. Centigrade / Fahrenheit setting

The temperature display in LCD transmitter have Centigrade and Fahrenheit 2 model. Setting method: quick press  and  together, if remote control “di” 1 time or vibrate 1 time, LCD display --°C, the temperature is centigrade mode, if remote control “di di ” 2 times or vibrates 2 times, LCD display --°F, temperature is Fahrenheit model.

6. Battery charge indication

Icon  in LCD transmitter show the battery is full, icon  mean battery is low, please charge with (5v) mobile phone charger USB. quick press  button battery charge show in percentage mode, such as:  means electricity is 89%.

Chapter 11: Technical parameters

1. Frequency: 433.92MHz +- 0.05MHz
2. Modulation method: FSK
3. Security code: 64 bit hopping code
4. Main unit technical parameters:

A. Voltage: 12V+-3V	E. Trunk current: 5A
B. Static current: ≤ 7mA	F. Direction light current: 7.5A
C. Siren: 105-125 dB	G. Central door lock output current: 15A
D. Siren current: 3A	
5. LCD transmitter parameters
 - A. Working voltage: 3.7V
 - B. Charging voltage : ≤5V
 - C. Quiescent current : ≤0.03mA

Chapter 12: Trouble-shooting

Issue	Solution
1. The siren sound loudly after install , and can't use transmitter release	<ol style="list-style-type: none"> 1. Check the wire is correct or not 2. Main unit's fuse is cut off or not 3. Check the main unit and transmitter's code is match or not 4. Please make the transmitter learn code again
2. After sound & light arm status setting , touch car lightly , or if there are some other car pass by , the car will warning	Maybe the shock sensors with a high sensitivity, please adjust the sock sensor vibration level, make the sensitivity lower or disable it.
3. Transmitter can set alarm but central door lock can't work	<ol style="list-style-type: none"> 1. Check central door lock wire is broken or not 2. Check the fuse is cut off or not , if fuse cut off , the install method before is wrong 3. Please check wire diagram and install method again
4. After arm status setting , open car door not warning	<ol style="list-style-type: none"> 1. Check side door detect wire connect correct or not 2. Check side door sensor switch is cut off or not
5. After Pneumatic lock function setting , central door lock can't work , other function is no problem	<ol style="list-style-type: none"> 1. Check the central door lock signal output is 3.5 seconds or 0.5 seconds , please set it 3.5 seconds 2. Check the wire connect to central door lock is correct or not
6. No alarm siren sound , or the sound is abnormal	<ol style="list-style-type: none"> 1. Check it's in mute arm status or not 2. Check the wire between main unit and siren is connect well or not , connect correct or not
7. After set arm status , siren sound loudly in 10 seconds	<ol style="list-style-type: none"> 1. Check shock sensor's sensitivity is too high or not , please adjust it 2. Check the wire between side door and foot brake is connect correct or not
8. Control distance very close	<ol style="list-style-type: none"> 1. Check main unit antenna put on a right place or not ; 2. Check there are some object effect the antenna or not , such as high electromagnetic wave 3. Check the battery with low power or not

	4. Check the main unit wire socket and receiver is poor contact or not
9. LCD transmitter no display or the screen is fuzzy	1. Check the transmitter's battery , if electricity is not enough , please charge it 2. Check the transmitter ever damp or suffer strong shock or not , please try to contact with dealer to solve the issue

Chapter 13: Installation instructions:

(1) "Antenna" installation

Install the antenna in the car windscreen corner, stay away from the border as far as possible, if the windshield explosion-proof membrane with metal containing ingredients , it can affect the communication distance, remove parts of the metal Explosion-proof membrane where antenna installation position , it will increases communication distance.

(2) "LED warning lights" installation

LED warning light should be installed in the car instrument desk surface, the people outside see it easily, so that it can play warning role.

(3) Siren wire connection

Speakers generally installed inside the car hood, avoid high temperature and water vapor; Installing a horn, bell mouth downward sloping, in order to prevent water.

(4) "Trigger positive/negative input" connection

When the car hood and tail gate without recognition switch, need install pin switch to realize detection extra; Regarding side door wire's connect method, see the installation wiring diagram.

(5) "Negative output channel" connection

System has 7 on load capacity of the output of the negative 300 mA (Bypass box-, dome light - , engine cut off - , trunk-, window close - , lock-, unlock-); Need connect to relay in order to large current output, see the installation wiring diagram.

(6) "Main unit" installation

1. Installation position should be below the instrument desk.
2. Connect the cable according to the wiring diagram.
3. Connect the main unit and all wiring harness connector.
4. After confirmed, will harness tied neatly.
5. The host should avoid oil leakage and water leak position to installation, outlet is down, avoid water seepage destroy circuit board.

(7) "Central lock" installation

1. If the car is equipped with electric central door lock, as long as discriminant is positive triggered or negative trigger, reference to central lock wiring principle diagram;
2. The car is equipped with electric central control door lock, but no actuator in driving seat side door (the other three door all have actuator), as long as install a actuator in driving seat side door , please reference to central lock connection diagram , and make the central lock programming work time is 0.5 seconds (Factory default).
3. The original car door lock without actuator , should be install with a set of central lock motor, please reference to central lock wiring diagram .Programming and central lock work time is 0.5 seconds (Factory default).
4. The car is equipped with pneumatic central control door lock; please reference to central lock wiring diagram (figure 5).Programming central lock work time of 3.5 seconds.

(8) "Start test" connection

Purple is used to identify the engine start line is in the starting conditions. When the host Built-in sensors cannot meet the requirement of the engine start detection, can be Programmed to function is set to start line identification; Rev Test line can pick up the lamp, Generators, tachometer, or on the surface of high voltage ignition line around five laps.

Central locking technical diagrams

Diagram A Negative locking

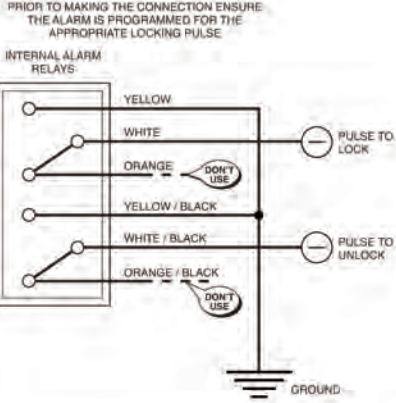


Diagram C Single point locking

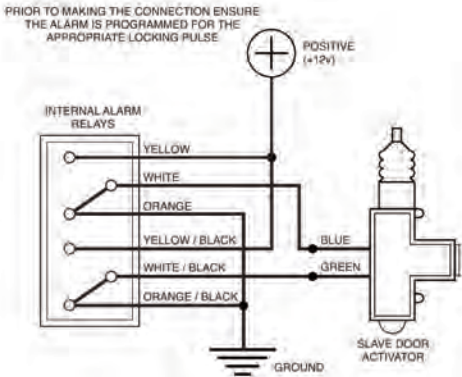


Diagram B Positive locking

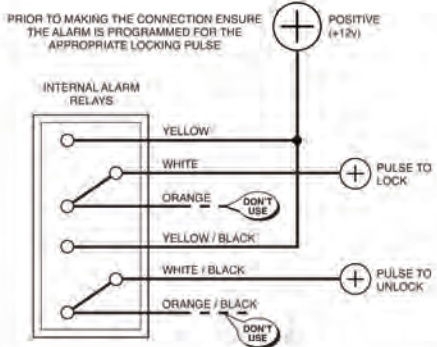
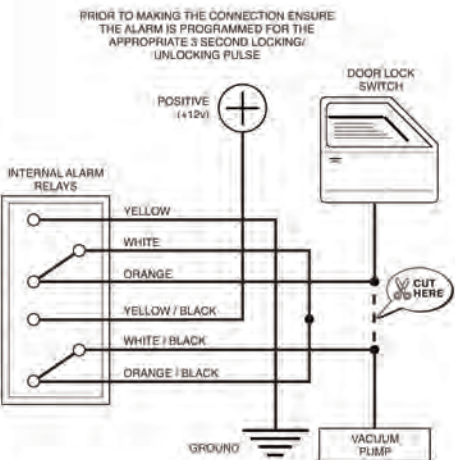
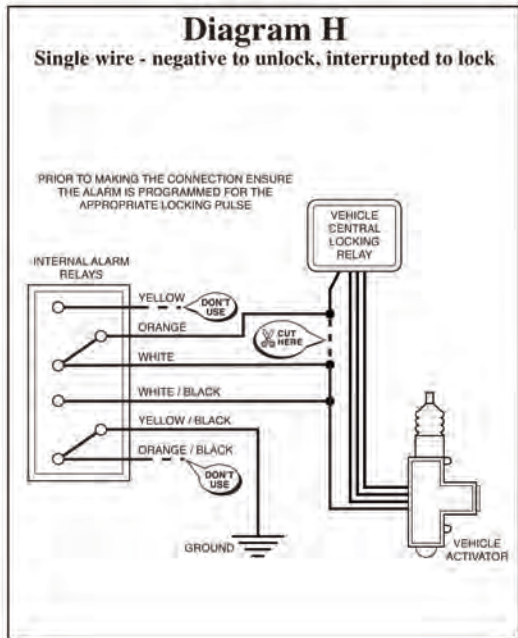
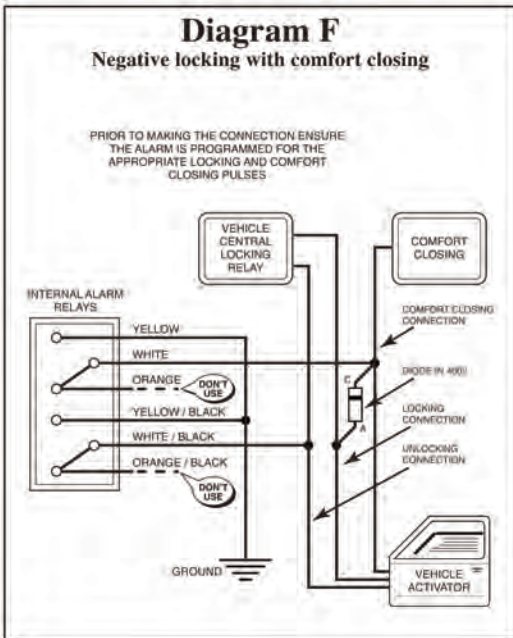
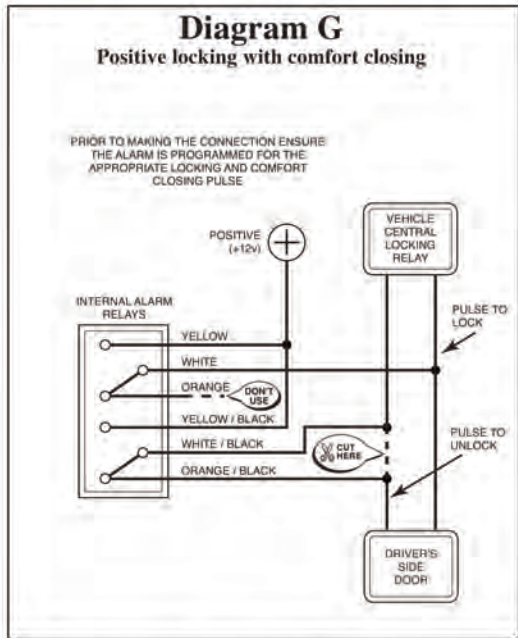
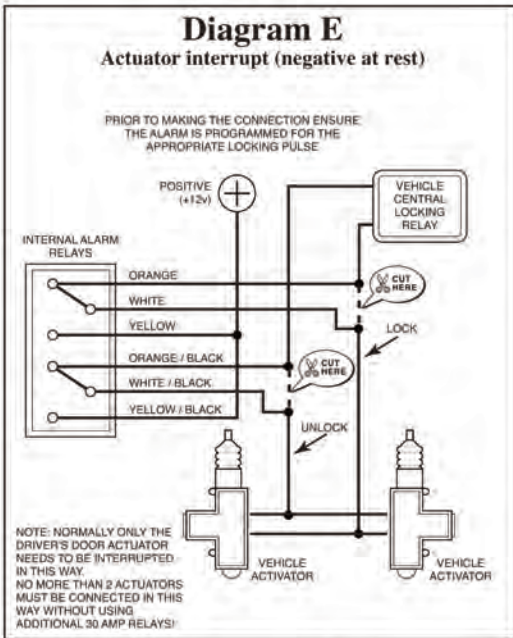


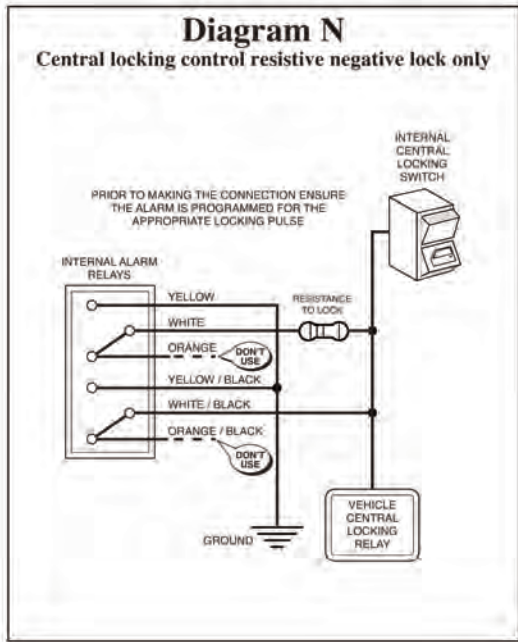
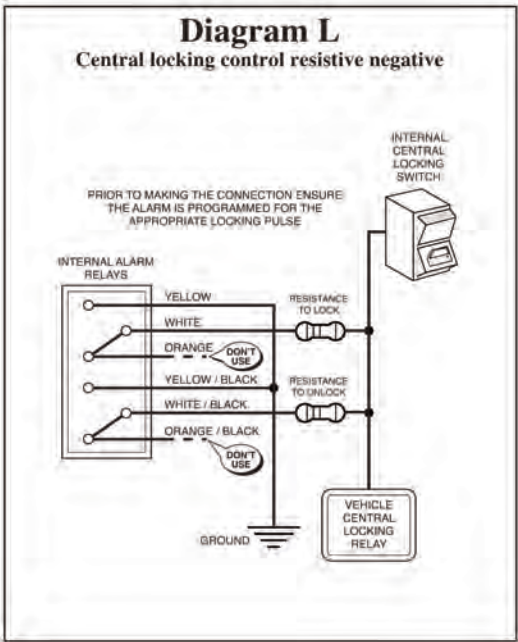
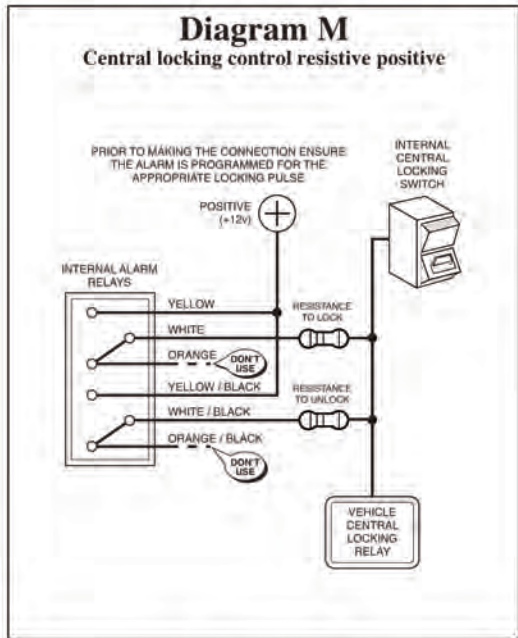
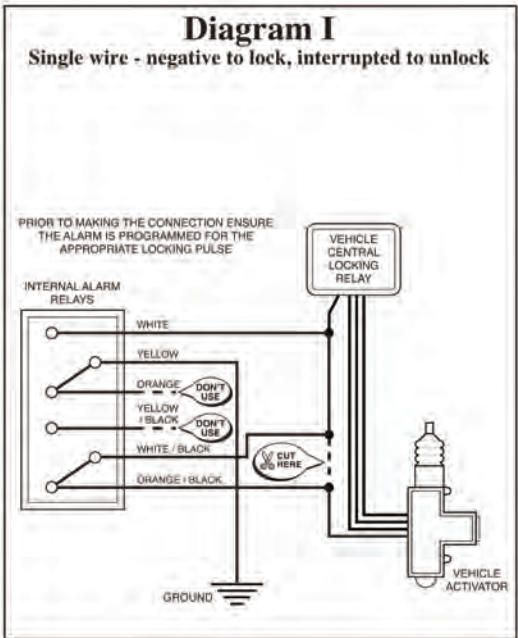
Diagram D Vacuum locking



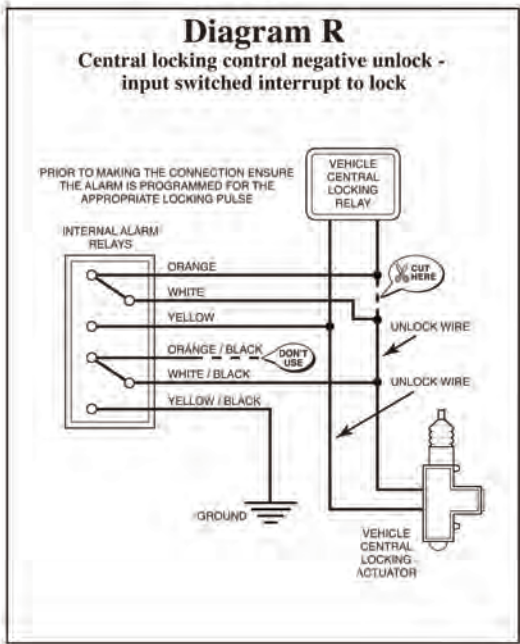
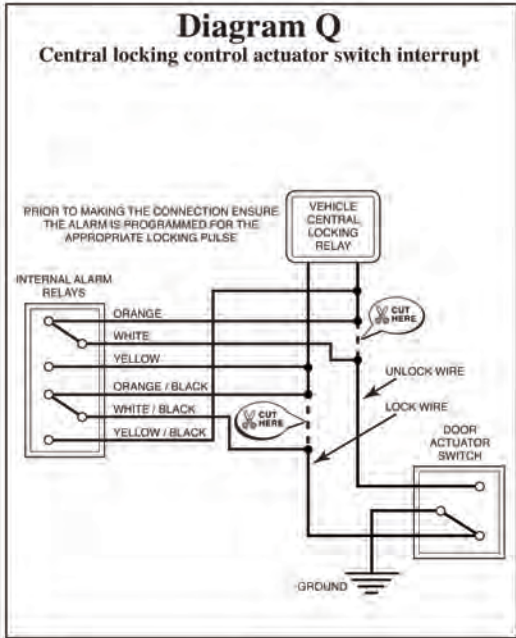
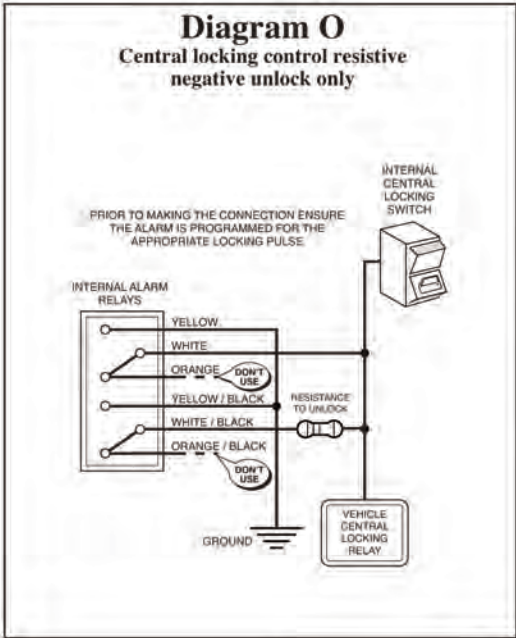
Central locking technical diagrams



Central locking technical diagrams



Central locking technical diagrams



Consumer Warranty

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