



## **722 Car Alarm 2 way**

Dear customer,

Thank you very much for your purchasing of the 2 way car alarm products we manufactured.

1. This product is designed to install on all 12V universal vehicle. The system possesses multi-functions. For your understanding about the product, read the instruction carefully to implement its features fully.
2. If the system manual shows note like “refer Alarm function RF programmed”, this function becomes effective only after installation of additional equipment as is required by the system and also needed to be program.
3. Besides the functions described in the manual, the system can also support the following products:
  - A) Engine Start Module: When combined with engine start module, it is possible to remote control and monitor of vehicle like engine start or shutdown (effective range about 1000 meters).
  - B) GSM Module (Mobile Phone Module): When combined with GSM module, if the vehicle is in an abnormal condition, system will automatically notify two-way remote. Moreover, it will send a short message (SMS) and make a phone call to inform car owner about car condition. On the phone, GSM module will automatically play voice message which tells

car owner's car condition. Of course, from outside call in to the machine go through the voice message guide to make command such as system arm/disarm, door lock/unlock, engine start/ shut down etc... You even can use short message (SMS) to control system. The system can be programmed to hold 4 different sets of phone numbers to inform car owner. Because of using the telephone net, car owner at anytime and anywhere to know car condition.

C) Satellite Tracking Module (GSM/GPS/GIS): When combined with satellite tracking module, all the above functions in (B) GSM Module would be included in the system. Moreover, car owner can use short message (SMS) to notify location of the car. Because the system includes GIS (Geographic Information System), car owner can use the short message displays in mobile phone in order to find out the location of the car. Message also told owner car status such as if the car is on the move or not and with report of speed of the car (km/hr). When car had been lost, the message would be able to trace it. This function helps car owner to search car back without the need of E-map, PDA and other people's assistance.

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## Genius Car Alarm



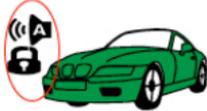
**2- way LCD transmitter**



**One way transmitter**

The 2-way LCD transmitter displays more the 20 different screen to provide real-time indications for feature activation and system status. The different display indication are shown below for reference

## Genius Car Alarm

		
1. Disarm	2. Audible arm	3. Silent arm
		
4. Shock trigger bypass	5. Button locked	6. Warn-away trigger
		
7. Shock trigger	8. Door open	9. Hood open
		
10. Trunk open	11. Valet mode	12. Anti-carjack
		
13. Ignition key on	14. Auto immobilize	15. Auto arm
		
16. Brake pedal	17. Engine running	18. Fixed auto start
		
19. Receiver indicator	20. Low battery	

## Transmitter control quick function table

The two-way and one-way remotes' function table

- Indicates “Press and release” of specified button
- For 2 way remote, it indicates “ Press and hold specified button” for 1 second (LCD vibrates and beeps) for level shift
- For one way remote, it indicates “ Press and hold specified button” for 1 second (LED lights green) for level shift
- • (S1 ) Indicates “Press button twice within 1 sec”.

Function	□1  □	□2  □	□3  □	
	□4  □	□5  □		
Arm (Lock)	1 •			Ignition OFF
Disarm (Unlock)	2 •			Ignition OFF
Lock	1 •			Ignition ON
Unlock	2 •			Ignition ON
All Shock Sensor by pass	1 •• (s1)			At armed
Valet Mode On/ Off	1 □ □ 1 •			At disarm mode
Audible /Silent choice	4 •			Ignition OFF
Remote Engine Start& shutoff	2 □ □ 2 • need ESM			Ignition OFF
Fixed auto start	2 □ □ 1 • need ESM			Ignition OFF
Stop and go	2 • □ 1 •			Ignition ON
Check status	3 •			Any time
Car Finder	3 •• (s1 )			Any time
Trunk Release	3 □ □ 3 •			Any time
Panic	1 with 2 □			Ignition OFF
Remote Anti carjack On	1 with 2 □			Ignition ON
Remote Anti carjack Off	2 •			Any time
Immobilize On/Off	2 □ □ 3 •			Any time
Last door arm On/Off	2 □ □ 4 •			Any time
Button lock On	1 with 4 □ (press and hold 1sec)			Any time
Button lock On	2 with 4 □ (press and hold 1sec)			Any time
Adjust shock sensor	4 □ □ 4 •			At disarm
Reset/lamp	5 •			Other function

## Multi-function switch quick function table

		Function	Multi-function switch	Process	
Ignition must be ON		To turn on anti-hijack stand-by	Press 1 time switch LED and parking light one time	System enters anti-carjack stand-by. If triggered by door, Anti-carjack first stage is initiated	
		To turn off anti-hijack stand-by	Press 1 time switch again	LED and parking flash three time or If ignition is turned off, anti-carjack standby mode was cleared	
		At anti-hijack at first trigger stage turn off	Hold switch 3 sec siren chips	If ignition turn-off is followed by siren chirps. Anti-carjack mode was cleared	
		At anti-hijack at full stage trigger turn Off	Hold switch 3 sec siren chips	If ignition turn-off is followed by siren chirps. Anti-carjack mode is cleared, but still in arm/lock mode	
		At normal time Valet mode On/Off	Hold switch 3 sec siren chips	If ignition turn-off is followed by siren chirps Valet mode On/OFF	
	Manual disarm	Then open car door		Press 3 times , siren chips	Ignition off siren chips = Manual disarm system. If ignition turn-off is followed by siren chirps. Manual disarm is done.
	Manual arm			Press 3 times, siren chips	If ignition turn-off is followed by siren chirps.. Then 20 sec later, system enters arm mode..

Function	Multi function switch	Process
Immobilize active reset Off	Press 1 time switch	Disable Immobilized function
Reset new PIN code	Press 4 times, siren chips	Ignition ON □ Press 1 times siren chips = Set 1 <sup>st</sup> new PIN code □ Press 1 times siren chips = Set 2 <sup>nd</sup> new PIN code
Alarm function programmable	Press 5 times, siren chips	If ignition turn-off is followed by siren chirps. System enters alarm function programmable stage.
Start function programmable	Press 6 times, siren chips	If ignition turn-off is followed by siren chirps. System enters start function programmable stage.
Learn codes of new remote.	Press 7 times, siren chips	Ignition On is followed by siren chirps system enter learn codes mode.
Reset to alarm function factory default	Press 9 times siren chips	Ignition On is followed by siren chirps. Press switch one time, system chirps, press remote button □  □ System resets function to factory default
Reset to start function factory default	Press 10 times siren chips	Ignition On is followed by siren chirps. Press switch one time, system chirps, press remote button □  □ System resets function to factory default

Ignition must be OFF

◆ **Remote door lock/arm (audio and mute) alert**

1. When system enters arm mode, alter LED flashes to avoid thief break in. If car under security system, door, trunk, hood, ignition, brake and shock sensor would be guarded. If system had been triggered, engine can't start by using the key and siren chirps and 2-way remote gets triggered message simultaneously.
2. Press and release button  1  Siren chirp once (or no chips if in mute mode) with parking light flash. The car door is locked and system enters arm mode. Refer picture No.2 or 3
3. **Window auto roll up**  After the main system enters arm/lock.it auto roll up the electronic powered window (an accessory is require refer Alarm function RF programmed 6 times ).
4. **Defective zone bypass**  If system enters arm mode. the system siren sounds long chirps 4 times and/or the remote unit sounds alarm. The main system detects a defective zone somewhere as the case of un-closed.(The remote shows triggered zones on its LCD). The system will automatically bypass the defective zone and enter arm mode. After the defective zone is corrected. The system enters full arm mode.

◆ **Remote door unlock/disarm**

1. When system enters disarm, security system will disable.
2. Press and release button  2  The main system will unlock the door. Siren chirps 2 with flashes of parking light  
(Or no chips if select "Smart Siren" mode. Refer RF programmed 8 times). Refer picture No.1
3. **Dome light**  After the main system enters disarm/unlock or while in arm mode. If the alarm is triggered. The dome light will automatically turn ON. This can illuminate the car's interior for owner's checking need and is also a warning against theft. (an

accessory is require refer Alarm function RF programmed 6 times).

4. **Security diagnostic report and stage disarm** After the main system enters disarm if siren chirps 4 times or remote unit makes 4 buzzer sounds. This indicate the system detected some defective zones (The triggered zones will appear in the remote LCD). And need press and release button . The main system will unlock the door. The alert LED flashes until turn on ignition by key.

Purpose: To indicate if the vehicle has been triggered in arm mode

5. **Auto relock** After the main system enters disarm if the door is not opened within 30 sec after it is unlocked by the remote unit, the main system will automatically lock/arm itself (refer Alarm function RF programmed 7 times) .

Purpose: Avoid system enters disarm abnormally (for example, accidentally press remote button.) Moreover, system will automatically enter arm mode again.

6. **Door auto lock/unlock upon ignition**

5-1) In disarm/unlock into the car. When the ignition key is turned to "ON" all the car doors close and pedal brake is depressed.will immediate auto lock door.(refer Alarm function RF program 2 )

5-2) Before leaving the car. If the ignition key is turned to "OFF" with the key all the car doors will unlock.

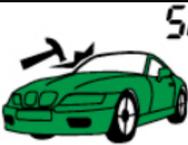
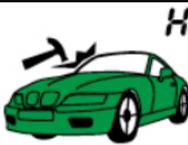
Purpose: When driving, door enters auto lock/unlock according to this feature has been set up or not.

## ◆ Shock Sensor by pass

1. The sensor by pass feature is the system armed the shock sensor will ineffective.
2. The system must be in arm mode then press and release button  $\square 1 \text{ } \square \text{ } \square$  twice. The main system shock sensor all stage becomes ineffective. Refer picture No.4

Purpose: Car park in a noisily environment.

## ◆ How to adjust internal shock sensor sensitivity

		
21. Ready to accept light impact	22. Ready to accept heavy impact	23. Failure and jump out

1. Sensor can only be adjusted under the disarm mode.
2. To enter sensor adjustment mode, press & hold  $\square 4$  (👉) first, then press and hold  $\square 4$  (👉) again, system will sound 2 long beeps.
3. When LCD displays icon (Refer picture No.21) following system's 1 long beep, exert light impact on to the car. System will sound one short beep to confirm this setting is done.
4. Again exert heavy impact on to the car when icon (Refer picture No.22) is shown. If system sounds 2 short beeps, this setting is done.
5. System will automatically jump out the sensor adjustment mode in the end.
6. During any process of sensor adjustment under 2 conditions below, the settings will be nullified
  - A) If "light impact" is not received by the system within 10 sec while picture No.21 displays. The system will sound 4

beeps and LCD display icon (Refer picture No.23) to notify “ nullify”.

- B) If “heavy impact” is weaker than “light impact”, the system does not recognize this and will nullify this process. Excert “heavy impact” again.

7. If sensor sensitivity needs re-adjustment, follow the above procedure from step 2 to 5.

### ◆ **Auto arm & (without or with lock) upon closing Last door**

1. The auto arm feature allows the system to arm automatically without user intervention.
2. Press and hold button 2  for level shift ,then Press and release button 4  to select On/Off Auto arm. If select it in ON mode the LCD remote will show it. Refer picture No.15
3. When auto arm mode is ON Close all the doors first. Then turn ignition to OFF. Open the door to leave out and close it. Siren will sound as confirmation the system has entered 10 sec countdown before auto arming is activated.(auto arm with door-lock or without locking refer Alarm function RF program 4 ).

Purpose: Without using hand to control remote, the system enters arm mode itself.

4. At below situation the auto arm function will disable.
  - A) If the car any door is opened while the ignition is form ON to OFF .
  - B) During into 10 sec countdown the door close twice.

Purpose: Remind user that system enters auto arm and door has been lock.

### ◆ **Remote alarm audible/mute mode**

1. When remote system, the siren can be selected audible/mute mode  
Refer picture No.2 or 3.
2. **Ignition must be at OFF position.** Press and release button  to select the audible or mute alert modes.
3. If system choose “audible mode”, siren sounds different chirps depending on remote command.
4. If system choose “mute mode”, siren will not response with sound against any remote command except for car search.

### ◆ **Remote valet ON /OFF mode**

1. When valet turn ON, the system’s all functions are inoperative except for the remote door lock/unlock and trunk releases and check search car remain operable
2. The system must be in disarm mode. Press and hold button  for level shift ,then Press and release button  to select On/Off valet On or OFF. If select it in ON mode the LCD remote will show it. Refer picture No.11

Purpose: Avoid others to make unnecessary commands. For example, friends or repairer play your remote.

### ◆ **Remote check car status**

1. Press and release button  to check the current car status. The parking light flashes 3 times.
2. The current car status will show on remote LCD.

### ◆ **Remote car search**

Press and release twice button  The system siren chirps 6 times with 6 flashes light to help easily locate the car.

## ◆ Remote active channel # 1

Press and hold button  for level shift ,then Press and release button  To active channel #1 (for example) trunk release. The parking light will flash. Refer picture No.10 (refer Alarm function RF program 9 ).

Purpose: User can use this function in order to control car equipments.

## ◆ Remote panic

1. **Ignition must be at OFF position.**
2. Press and hold  with  button together , the parking light flashes 3 times and siren chirps 3 times. The system auto into arm and lock mode.

Purpose: To panic and avoid trespass.

## ◆ Remote anti-carjack

1. **Ignition must be at ON position.**
2. Press and hold  with  button simultaneously. The system will enter full stage of anti-carjack mode.
3. While the remote anti-carjack is being activated, press and release button  button to disable this function.

Purpose: Engine will shutdown and can not start any more when car has been robbed.

## ◆ Switch-controlled anti-carjack standby and cancel

1. **Turn ON/OFF anti-carjack at standby mode**
  - 1-1) **To turn ON anti-carjack standby mode** Ignition must be at ON and with all the doors closed ; if push multi function switch one time ,the system will enter anti-carjack standby mode.
  - 1-2) **Disable anti-carjack at standby mode** Just turn off ignition

without opening the car door. The system will jump out of anti carjack standby mode.

## 2. To trigger anti-carjack mode

2-1) **Triggering of anti carjack first stage mode** During anti-carjack standby mode. If the door is opened and close, the system enter anti-carjack trigger first stage mode. The parking light flashes for 30 sec to show first stage mode is initiated but the siren did not chirps the engine is running normally at this stage. If first stage mode didn't interrupted on time, the system will enters second stage anti-carjack mode. Refer to picture No.12

2-2) **Enter second stage of anti-carjack mode** Follow first stage system will auto into anti-carjack second stage mode the parking light flashes with siren chirps for 30 sec when this stage initiates. Engine will keep on running. If this stage is not interrupted, full anti carjack function will be triggered.

2-3) **To disable first and second stage anti-carjack mode** Press and release remote button  or (press and hold multi function switch 3 sec. the siren chirps then turn ignition OFF). The system will jump out of anti carjack mode.

3. **Enter full stage of anti-carjack mode** Follow second stage system will auto into anti-carjack full triggering stage mode. system have A-B kind of state.(refer alarm RF programmed 11 ).

A) **Anti-carjack safe mode** The parking light flashes with siren alert which time if brake pedal is depressed the engine runs chokes for 45 sec then shuts down the engine. If in this time the ignition still at ON position the parking light and siren continuous flashes and alert.

Note Select safe mode the main unit orange/violet wire needs connect to pedal brake switch

B) **Anti-carjack auto mode** The parking light flashes with

siren alert the **engine runs chokes** for 45 sec then shuts down the engine. If in this time the ignition still at ON position the parking light continuous flashes and siren alert.

**4. To disable full stage of anti-carjack mode** The system have A B kind of way to turn OFF full stage of anti-carjack ( refer alarm RF programmed 5 to controlled by secure PIN code or not ).

A) For system uncontrolled by PIN code Press and release remote button  button (or) press & hold multi function switch for 3 sec. Turn ignition OFF when siren chirps. Anti-carjack triggering mode is disabled but system still remains in arm mode.

B) For system controlled by secure PIN code Anti-carjack triggering can only be done by means of secure PIN code. Refer to secure PIN code procedure.

### ◆ Stop and go

1. To identify engine is running by key and ignition at ON position
2. Open the door then get off the vehicle and don't close the door.
3. Press and release button  then close all the car doors.
4. Press and release button  of the remote. The system enters arm/lock mode bypassing shock sensor and ignition.

**( If the system doesn't enter arm mode within 15 seconds, the stop and go feature will not be available.)**

Purpose: Car is under security system when user leave car in short period of time and engine is still running.

## ◆ **Auto-immobilizer mode ON/OFF**

1. Under this mode feature engine start by the ignition key is disabled
2. Press and hold button  for level shift ,then Press and release button  to select ON/OFF auto-immobilizer mode. The LCD remote shows only valet ON mode if valet is selected ON.  
Refer to picture No.14
3. At auto-immobilizer ON mode the system automatically enters immobilizer mode (engine defeat relay is activated) after 30 sec from ignition OFF.
4. The immobilizer mode will indicated by dash LED whenever the ignition is turned ON.
5. **To clear immobilizer activated mode** Press and release button  of the remote unit (or) turn the ignition OFF first and then push the “1’ time the multi function switch.

Purpose: The engine start is disabled even with the ignition key. This feature give protection to car if car owner forgets to do command when leaving his car.

## ◆ **Alarm indication**

1. In arm mode If the car detects any impact, the shock sensor’s first stage is triggered. Parking light will flash. Refer to picture No.6
2. If the heavier impact is detected by the main system. the siren blurts for 27 sec with parking light flashing for the same time.  
Refer to picture No.7
3. If the trigger is caused by other means like door-open, trunk/hood open or ignition “ON”. The siren blurts 30 sec with parking light flashing for the same time and the engine run is disabled. Refer to picture No.8 9 10 13.
4. While the alert is being triggered in arm mode, press and release

button  once to terminate alarm triggering The 2<sup>nd</sup> press and release of button  makes the main system enter unlock/disarm mode. The alert LED flashes until turn on ignition by key.

### ◆ Manual disarm

- 1 When remote had lost or broken use manual disarm function to cancel arm mode.
- 2 Need to be confirmed that system is settled in which of following situations in order to set up this function. The system have A/B kind of way to manual arm or disarm system ( depend alarm RF programmed 5 to controlled by secure PIN code or not ).
  - A) **For system uncontrolled by secure PIN code** While system at arm mode If user want to manual to “disarm” system . Turn the ignition key to ON position and need open the door. Push “3” time the multi function switch. Then turn off ignition the siren will chirp to indicate become disarm.
  - B) **For system controlled by secure PIN code** Refer use PIN code procedure.

### ◆ Use PIN secure code procedure

1. The system had to programmed to secure PIN code mode before if want to using PIN code procedure to manually disarm and to deactivate the anti-hijack in finally stage active mode. If didn't programmed to PIN code mode that can't using PIN code to disarm system.
2. The system default PIN code digit number is

1 <sup>st</sup> digit code	2 <sup>nd</sup> digit code
(X) time	(Y) time

## ◆ How to use PIN code to disarm the system

- 3-1) Turn the ignition to ON position and it is necessary to open car door.
  - 3-2) Press and release the multi function switch (**X**) times (**X** is “1” as the factory default or the new 1<sup>st</sup> digit if reassigned)
  - 3-3) Turn the ignition OFF. Then turn ON the ignition again.
  - 3-4) Press and release the multi function switch (**Y**) times (**Y** is “1” as the factory default or the new 2<sup>nd</sup> digit if reassigned)
  - 3-5) Turn the ignition OFF. After the system verifies PIN codes, it disarms itself.
3. The PIN code can be re-assigned by the car owner. Refer to the procedure to enter PIN setting mode and re-assign a new PIN code if desired.

## ◆ How to change PIN code for security need

1. First ignition had to turn at OFF position.
  2. Press and release multi function switch “4” times then turn the ignition ON which is followed by 4 siren chirps.
  3. Press multi function switch once then siren a chirp to confirm into set new PIN 1<sup>st</sup> digit code (**X**) time. To using remote to set first digit code refer below.
- 3-1) To assign PIN code digit number at “1” time. Press and release  button remote unit. The siren 1 chirp to confirm.
  - 3-2) To assign PIN code digit number at “2” time. Press and release  button remote unit. The siren 2 chirp to confirm.
  - 3-3) To assign PIN code digit number at “3” time. Press and release  button remote unit. The siren 3 chirp to confirm.
  - 3-4) To assign PIN code digit number at “4” time. Press and release  button remote unit. The siren 4 chirp to confirm.

4. Press multi function switch once again then siren 2 chirps to confirm into set new PIN 2<sup>nd</sup> digit code (Y) time. To using remote to set first digit code refer below.
  - 4-1) To assign PIN code digit number at “1” time. Press and release  button remote unit. The siren 1 chirp to confirm.
  - 4-2) To assign PIN code digit number at “2” time. Press and release  button remote unit. The siren 2 chirp to confirm.
  - 4-3) To assign PIN code digit number at “3” time. Press and release  button remote unit. The siren 3 chirp to confirm.
  - 4-4) To assign PIN code digit number at “4” time. Press and release  button remote unit. The siren 4 chirp to confirm.
5. Turn the ignition to OFF finish set PIN code process.
6. You are advised to note down the new PIN codes for your future reference.

Purpose: User can having his/her own PIN code for security need.

### ◆ Learn codes of the new remote transmitter

1. Ignition had to at OFF position.
2. Press multi function switch  7 times. Then immediate turn ignition to ON position. The siren & LED indicator will “7” chips and burn the mean is system into learn newly remote mode process.
3. Press and release newly remote button  &  simultaneously till the siren chirps 1 time confirming code learning is completed.
4. Then other remote did process 3. To allow the main system learn coding of each transmitter. (Maximum 4 remotes can be learned by the system).
5. The system will automatically jump out of learning mode if no signal is received within 6 sec. from the last signal or turn OFF ignition.

Note□The pre-memorized coding will be erased each time the learning mode is activated. Re-do the code learning in this case.

### ◆ **Reminder of allowed number of remotes**

Security reason. This allows you to know how many remotes are memorized up to date.

Turn ignition to ON position. Press and release button□3□ of remote and observe LED flash pattern. For example 2 times of flash Indicates that system has already learned 2 remote units.

Purpose: Allow car owner knows how many remotes are memorized up-to-date (Avoid others to make copy of the remote by using original remote).

### ◆ **PIN Switch test for alert L E D**

1. The system must be in disarm mode with the ignition ON
2. If all the switches are in good condition, opening of any of car door, trunk or hood can make the LED flash. The LED turns off when they are closed.

Purpose: Remind driver that which district is unusual.

## ◆ Indicator alert L E D table

Different standby modes	Ignition at OFF position LED blinking	Ignition at ON position LED blinking
System in arm mode	* * * * * *	
Immobilization active		Burn on
Valet mode ON	Burn on	
Engine start	Burn on	
Fix time auto start	** ** * *	
Hijack trigger first stage mode		* * * * *
Reminder allowed number remotes		Depend how many unit and flash that
Any zoon Pin switch test		If any zoom trigger will * * * * * * *

## ◆ Hopping code transition

This system's transmission uses hopping code technology that ensures total prevention from being counterfeited by code grabbers.

Purpose: Avoid others from being counterfeited by code grabbers

## ◆ Low battery indicator for transmitter

When low battery icon displays on the remote LCD, its battery is about to exhaust. Insert the new battery □Alkaline battery of size AAA is recommended □Refer picture to No.20

### ◆ **Monitoring standby indication**

1. If the LCD shows flashing antenna, the remote is monitoring the car. Refer to picture No.19
2. After 1 minute from the system disarm, the remote stops monitoring and its antenna disappears from LCD.

Purpose: User can monitor any condition happens for the car.

### ◆ **Out-of-range indication**

When operator the remote's function button and sound low tone the mean is the remote out of range from the car.

Purpose: User knows if the remote function or monitoring is out-of-range or not.

### ◆ **Transmitter's button locked/unlocked**

1. Press and release button  with  the remote's key pad is locked.. Refer to picture No.5
2. Press and release button  with  the remote's key pad is unlocked.

Purpose: Avoid kids play remote and accidentally press remote button.

### ◆ **Transmitter light**

Press and released  the remote light will burn few second.

## ◆ Other Remote Control Functions

The LCD remote control unit has basic features of (a) EL backlight (b) different time indication of Real time, alarm clock, count-down timer and follow the procedure as below

Operation of keys	Functions	Notes
Press $\text{5} \text{ F}$	Backlight ON (automatic turn-off after few sec)	
Press and hold $\text{5} \text{ F}$ 3 secs	Entry/exit of adjust mode by hour, confirmed by 2 beeps, exit by 1 beep.	<b>While in each time entry mode:</b> Press $\text{3} \text{ ⏮}$ to choose "ON" or adjustment upwards Press and hold $\text{3} \text{ ⏮}$ for quick adjustment upwards Press $\text{4} \text{ ⏭}$ to choose "OFF" or adjust downwards Press and hold $\text{4} \text{ ⏭}$ for quick adjustment downwards
Press $\text{5} \text{ F}$ 1 times	Minute entry (adjust mode)	
Press $\text{5} \text{ F}$ 2 times	Hour entry (to adjust start clock)	
Press $\text{5} \text{ F}$ 3 times	Min entry (to adjust start clock)	
Press $\text{5} \text{ F}$ 4 times	ON/OFF choice for start clock	
Press $\text{5} \text{ F}$ 5 times	Hour entry (to adjust countdown timing)	
Press $\text{5} \text{ F}$ 6 times	Min entry (to adjust countdown timing)	
Press $\text{5} \text{ F}$ 7 times	ON/OFF choice for countdown timing	
Press and hold 1 sec $\text{1} \text{ 🔒/z} + \text{4} \text{ ⏭}$	LCD Remote Control button lock ON	
Press and hold 1 sec $\text{2} \text{ 🔓} + \text{4} \text{ ⏭}$	LCD Remote Control button lock OFF	

## **Additional engine start module is required to using below function**

### **◆ Remote engine start and shutdown for auto gear car**

1. Pre-condition for to allow this features is
  - 1-1) The car must be in neutral gear or parking mode
  - 1-2) Hood must be closed. Refer to picture No.9
  - 1-3) Don't depress pedal brake. Refer picture to No.16
  - 1-4) Valet needs off mode. Refer picture to No.11
2. Press and hold button  for level shift ,then Press and release button  to remote engine start (or) shutdown. Refer picture to No.17

Purpose: In winter, remote engine start will help car to warm up; however, in summer it will turn on air condition system.

**How to shift to key-controlled engine run afterwards the remote engine run is done.**

**After engine run by remote unit, driver gets inside and inserts the ignition key. Turn it to ON position and then step on the brake. When parking light flashes 4 times and LCD screen displays Key icon, the engine run is being controlled by key. Turning the ignition to OFF can shut down the engine.**

- 2-1) When remote engine start and the door was closed system will enter arm and lock mode automatically.( refer start RF programmed 4 times ).

Purpose: Security system is activated when remote engine start.

- 2-2) The parking light flashes slowly while the engine is running.( refer start RF programmed 6 ).

- B) Engine will automatically shutdowns after its programmed runtime is over for example 5 minutes(refer start RF programmed 2 ).

3-1) While at arm mode and remote engine shutdown. The system will auto relock again For the car with the factory-installed device of auto door-unlock upon ignition.( refer start RF programmed 7 ).

### ◆ **Remote engine start or shutdown for manual gear car**

1. The following procedures are for system enters stop and go feature
2. Let engine run by ignition key. **Door must close. Brake pedal is depressed and press and release button, system ignition relay will active.**
3. The key turn ignition off while the engine is still running (Engine goes on running at this stage by system).
4. Then open the car door. Get off and re-close the door
5. Press and release button 1  the system to make system enter arm/lock (Engine will automatically shut off at this stage).The system's start is operable afterwards. If there is any mistake in the procedures, the system's engine start is disabled.
6. Press and hold button 2  for level shift ,then Press and release button 2  to remote engine start (or) shutdown. Refer picture to No.17

Purpose: Manual gear car owner can safely remote engine start.

### ◆ **Fixed time auto-start**

1. Press and hold button 2  enter deep command first. Then press and release button 1  again to select fixed auto-start time ON/OFF.
2. During the auto-start time ON mode, the engine will automatically start at time interval beginning from mode initiation (Example for time interval as 24-48-4-12 hours refer start RF programmable 3 ). Refer picture to No.18
3. After fixed auto-start mode is on, if brake pedal had stepped, this

function would be disabled and ICON would disappear. User has to re-set the function in order to turn on fixed auto-start mode again.

Purpose: This can auto-start to do battery charging for car if it would be left over a long period without driving

### ◆ Extra engine running timer

1. RF programmed the function needs turn on.
2. Let engine run by ignition key. **Door must close. Brake pedal is depressed and press and release [2]  button, system ignition relay will active.**
3. Turn the ignition off while the engine is still running (Engine goes on running at this stage by system).
4. Then open the car door. Get off and re-close the door
5. Press and release [1]  button the system to make system enter arm/lock (Engine goes on running at this stage by system refer start RF programmable 1).

Purpose: While engine hi-speed running and immediately turn off to protect the engine life.

## ◆ Main system wire guide

### 1. **Red wire: 12v (+) positive input.**

- 1) Locate the 12v wire of the ignition switch and connect it with this. This supplies (+) 12V power with over 15 amps current , regardless of position of battery.
- 2) The short red wire is connected door lock black /red harness if triggered by (+).

### 2. **Black wire: ground (-) input.**

Connect this wire to the ground. The short black wire is connected door lock black /red harness if triggered by (-).

### 3. **Blue wire: channel output (-) to dome light or window roll up (Refer to alarm RF Program 6<sup>th</sup> )**

This wire circuit can be programmed for different mode options as below.

Mode 1 and 2 for dome light□

While remote disarming, this wire provides 20/30sec of (-) 300mA to turn the dome light through the external relay.

Mode 3 and 4 for roll up window□

While remote arming, this wire provides 20/3030sec of (-)to roll up power window through the external relay.

### 4. **Black/Yellow wire: start or ignition killer output (-)**

#### 1. N/C( Normally Close Mode)□(Refer to alarm RF Program 10<sup>th</sup>)

If this mode is chosen, there is negative output at arm and immobilized time. But there is no negative output when the system enters remote engine start even system in arm mode.

#### 2. N/O( Normally Open Mode)□

If this mode is chosen, there is no negative output at arm and immobilized time. But there is negative output when the system enters remote engine start even system in arm mode.

Note□

- A) If system is pre-installed without remote start module, use this wire to kill the car's start motor or ignition.
- B) If system is pre-installed with remote start module, use this wire to kill the car's ignition wire.

### **5. Orange/violet wire input**

Pedal break switch's : Normally rear brake light trigger negative (-) while pedal break become positive (+) connect to orange/violet . This wire needs installation effective function below

System use pedal break to do ignition upon on auto door lock.

System use pedal break to do anti-hijack programmed safe mode

System installation start module to do allowed or not allowed engine start.

### **6. Blue/Red wire: door switch trigger (+) (alarm RF Program 3<sup>rd</sup>)**

While the door open switch trigger (+) connect with the Blue/Red. If the door closed the trigger not immediate disappear need programmed

### **7. Orange/White wire: trunk pin switch (-) trigger input**

While trunk open switch trigger that connect with the orange/white wire.

### **8. Green/Black wire: direction light (+) output at 7.5 A**

Output 12V(+) by internal relay for the direction light.

### **9. Green/Yellow wire: direction light (+) output at 7.5 A**

Output 12V(+) by internal relay for the direction light.

### **10. Yellow wire: for ignition (+) input**

Connect to ignition switch area that shows + 12V when the ignition key is turned to "ignition" and "start" position wire.

### **11. Grey wire: Siren output (+) 1.5 A (Refer to alarm RF Program 8<sup>th</sup>)**

The main system feeds different (+) 12v of 1.5A for alert signal directly connect with siren or use an additional relay to connect with the horn.

### **12. Yellow /Black wire: Active channel 1 output (-) of 300ma (Refer to alarm RF Program 9<sup>th</sup>)**

Remote To active channel #1 this wire pulse output. The pulse time would be programmed.

### **13. Blue/Black wire: door pin switch trigger (-) input**

While the door open switch trigger (-) connect with the Blue/Black. If the door closed the trigger not immediate disappear need programmed

### **14. Orange/Gray wire: hood pin switch trigger (-) input**

## ◆ Alarm function RF program

1. Let ignition at OFF position
2. Press multi function switch 5 times,
3. Immediately turn ignition ON. The siren sounds 5 chips & LED indicator flashes to indicate function RF programmable mode is activated.
4. While in the active programming mode. Each press on multi function switch is followed by one siren chirp & one LED flash and each fifth press is followed by a long chirp. Chirping pattern enables the programmer to know which features active mode he has achieved.
5. When the desired function changeable level is reached, press the related button for function selection. Siren chips 1~ 4 times for confirmation. Refer to below Alarm function RF program table.(as shown in the Default change by remote's button column). The factory default is described in the V shaded background.
6. After 10 sec or turning off ignition, system will automatically jump out RF feature programming.

## ◆ Restore RF alarm function to factory default

1. Let ignition at Off position
2. Press multi function switch 9 times
3. Immediately turn ignition. On The siren sounds 9 chips & LED flashes to confirm system's entry into standby RF function to factory default setting.
4. Press multi function switch 1 time The siren chips again .Then use remote button 1 to get the system restore RF features to the factory default.

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Alarm function RF program table		Default change by remote's button			
M.F. switch	Features active mode with factory default	01  	02 	03 	04 
1 <sup>st</sup>	Door unlock/lock output current	<input type="checkbox"/> <u>0.8/0.8</u>	<input type="checkbox"/> 3.6/36	<input type="checkbox"/> 0.8 twice /0.8	<input type="checkbox"/> note
2 <sup>nd</sup>	Door lock/unlock upon ignition on/off	<input type="checkbox"/> <u>brake pedal</u>	<input type="checkbox"/> ON	<input type="checkbox"/> Auto Lock off unlock on	<input type="checkbox"/> Off
3 <sup>rd</sup>	Delay door switch time	<input type="checkbox"/> Smart bypass for Dome light	<input type="checkbox"/> <u>for Pin switch</u>	<input type="checkbox"/> Pin switch delay 30 sec	<input type="checkbox"/> Pin switch 45 delay sec
4 <sup>th</sup>	Auto arm or lock upon last door close	<input type="checkbox"/> Without lock	<input type="checkbox"/> <u>With lock</u>	<input type="checkbox"/> With lock	<input type="checkbox"/> With lock
5 <sup>th</sup>	Manual disarm with or w/o pin code	<input type="checkbox"/> <u>Without pin</u>	<input type="checkbox"/> With pin code	<input type="checkbox"/> With pin code	<input type="checkbox"/> With pin code
6 <sup>th</sup>	Blue wire output active	<input type="checkbox"/> <u>Disarm 20</u>	<input type="checkbox"/> Disarm 30	<input type="checkbox"/> Arm 20	<input type="checkbox"/> Arm 30
7 <sup>th</sup>	Auto rearm on/off	<input type="checkbox"/> <u>On</u>	<input type="checkbox"/> Off	<input type="checkbox"/> Off	<input type="checkbox"/> Off
8 <sup>th</sup>	Smart siren or Horn selection	<input type="checkbox"/> Siren	<input type="checkbox"/> <u>Smart siren</u>	<input type="checkbox"/> for Horn	<input type="checkbox"/> for Horn
9 <sup>th</sup>	Yellow/white CH # 1 output pulse time	<input type="checkbox"/> <u>0.8sec</u>	<input type="checkbox"/> 10 sec	<input type="checkbox"/> 30 sec	<input type="checkbox"/> On/off
10 <sup>th</sup>	Start or ignition killer N/C N/O	<input type="checkbox"/> <u>N/C</u>	<input type="checkbox"/> N/O	<input type="checkbox"/> N/O	<input type="checkbox"/> N/O
11 <sup>th</sup>	Remote and Switch-controlled Anti-carjack	<input type="checkbox"/> <u>Safe mode</u>	<input type="checkbox"/> auto mode	<input type="checkbox"/> Off	<input type="checkbox"/> Off

◆ **Alarm Function RF Program Table Explanation**

1<sup>st</sup>. Door lock/unlock output current time

1. Lock - 0,8sec; Unlock - 0,8sec (for electric system)
2. Lock - 3,6sec; Unlock - 3,6sec (for pneumatic system)
3. Lock - 0,8sec; Unlock - 2 pulse of 0,8sec (for 2 stage unlock cars)
4. Lock - 30sec; Unlock - 0,8sec ("comfort" output for Mercedes cars)

2<sup>nd</sup> Door lock/unlock upon ignition ON/OFF

1. All doors must be closed and turn ignition ON. If brake pedal is depressed, system will auto door-lock. It will immediately unlock when the ignition is turned OFF.
2. Car door is locked upon ignition ON. It will immediately unlock when the ignition is OFF.
3. Car door is not locked upon ignition ON. It will immediately unlock when the ignition is OFF.
4. Car door is not lock / unlock upon ignition ON/ OFF.

3<sup>rd</sup> Delay door switch time

1. Detect car's dome light wire Smart Bypass □ Which system into arm the door zoom detect effective will after the trigger disappear. If the triggered connection after 60 sec. the siren will chips 4 times and LCD show door open.
2. Detects door pin switch instantly □ When system enters arm ,system detects door zone immediately .In other word ; after arm if door is opened, the system will auto by pass. Siren chips and LCD displays door open.
3. Detects door pin switch after 30 sec □ When system enters arm ,system detects door zone after 30 second . In other word; after arm if door is opened, the system will auto by pass. Siren chips and LCD displays door open
4. Detects door pin switch after 45 sec □ When system enters arm ,system detects door zone after 45 second . But after 45 sec, if

the triggered zone still exists, the system will auto by pass. Siren chips and LCD displays door open

### 4<sup>th</sup> Last door close with arm and lock

1. Last door close with only arm but without lock.
2. Last door close with arm and door lock.

### 5<sup>th</sup> Manual disarm using with or without pin code

1. Off. Using manual to disarm system.
2. Using manual disarm using pin code (Refer to pin code explanation)

### 6<sup>th</sup> Blue wire output active

1. For dome light□While remote disarming, this wire provides 20sec of (-) 300mA current to turn the dome light ON through the external relay.
2. For dome light□While remote disarming, this wire provides 30sec of (-) 300mA current to turn the dome light ON through the external relay.
3. For window rollup□While remote arming, this wire provides 20sec of (-) 300mA current to roll up the electric window through the external relay
4. For window rollup□While remote arming, this wire provides 30sec of (-) 300mA current to roll up the electric window through the external relay .Auto rearm with off.

### 7<sup>th</sup> Auto rearmed ON/OFF

1. Auto rearmed ON.
2. Auto rearmed OFF.

### 8<sup>th</sup> Siren or Horn chirp time selection□

1. Siren mode□The system enter audio arm mode the siren chip and disarm the siren will chip 2 times, and in silent arm mode. If

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triggered, the siren will not blurt.

2. "Smart Siren " mode □ Choose this mode to allow system in audio arm mode. The siren chips upon disarming will not chips. But into disarm if siren wills 4 chips this mean is during arm mode which zoon trigger report.
3. Choice this mode to allow system in active arm mode as in note 1. Extra relay is required and its triggering is by horn.
4. Choice this mode to allow system in active arm mode as in note 1. Extra relay is required and its triggering is by horn.

9<sup>th</sup> Choice No. 12 Yellow/white wire output pulse time

1. Each output time at 0.8 sec. for trunk release when activated channel # 1.
2. Each output time at 10 sec. for user need activated channel # 1.
3. Each output time at 30 sec. for user need activated channel # 1.
4. Each output time ON/OFF. For user need activated channel # 1.

10<sup>th</sup> Choice No. 4 black/yellow wire's while start or ignition killer active □

1. **N/C( Normally Close Mode) □**

If this mode is chosen, there is negative output at arm and immobilized time. But there is no negative output when the system enters remote engine start even system in arm mode.

2. **N/O( Normally Open Mode) □**

If this mode is chosen, there is no negative output at arm and immobilized time. But there is negative output when the system enters remote engine start even system in arm mode.

11<sup>th</sup> Remote and Switch-controlled Anti-carjack function

1. Safe mode. If this mode is chosen, anti-carjack full trigger is initiated when brake pedal is depressed while in anti-carjack standby mode.
2. Auto mode. If this mode is chosen, anti-carjack full trigger is automatically initiated without the need to depress brake pedal while

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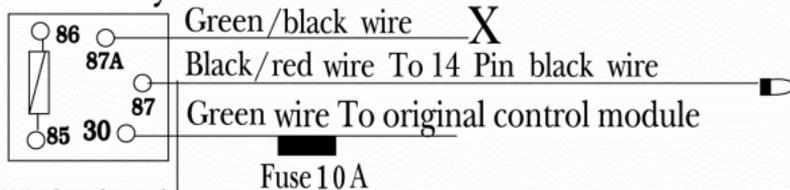
in anti-carjack standby mode.

3. OFF mode. If this mode is chosen, remote and switch-controlled anti-carjack function are disabled.

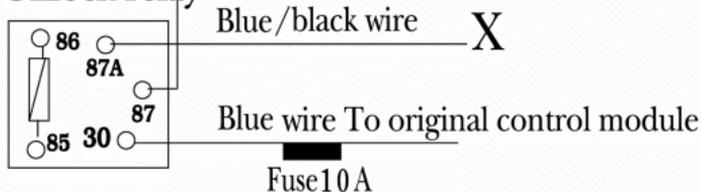
◆ **Door lock wire diagrams**

**Diagram (1) The vehicle must have factory door lock relay control module and "Negative Trigger"**

**Lock relay**

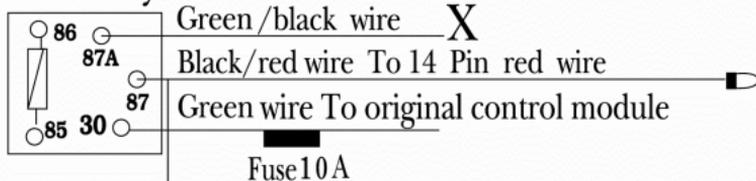


**Unlock relay**

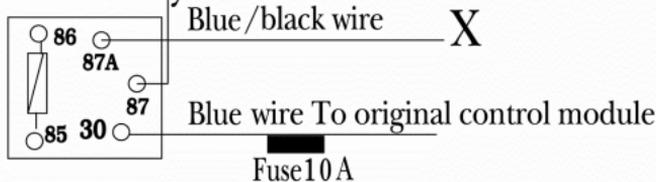


**Diagram (2) The vehicle must have factory door lock relay control module and "Positive Trigger"**

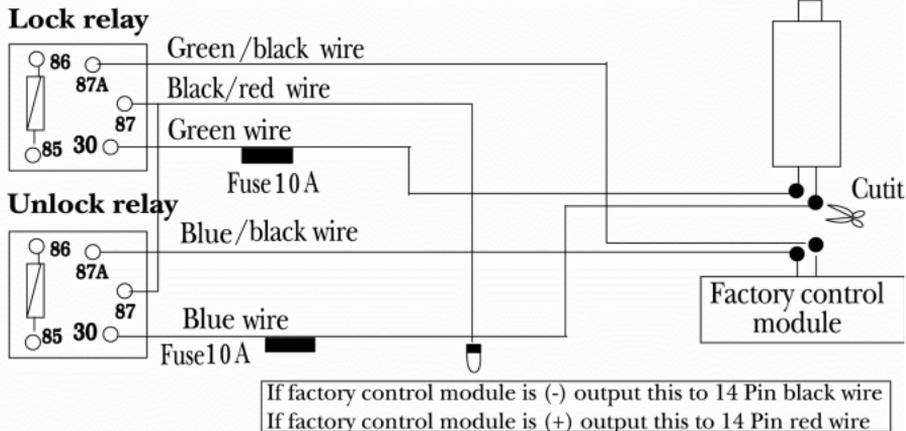
**Lock relay**



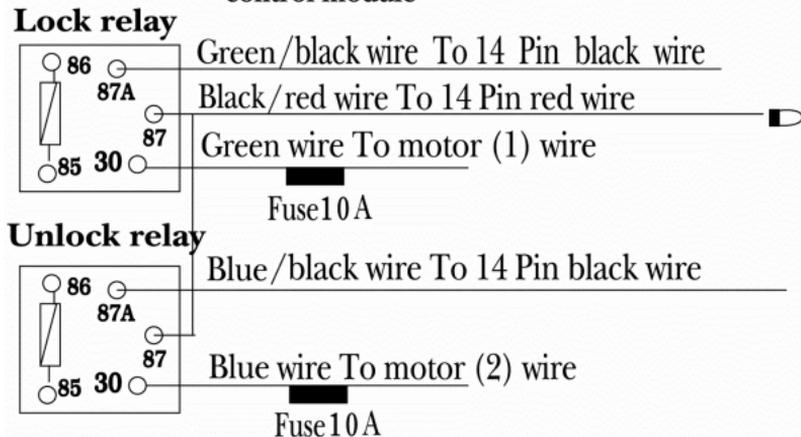
**Unlock relay**



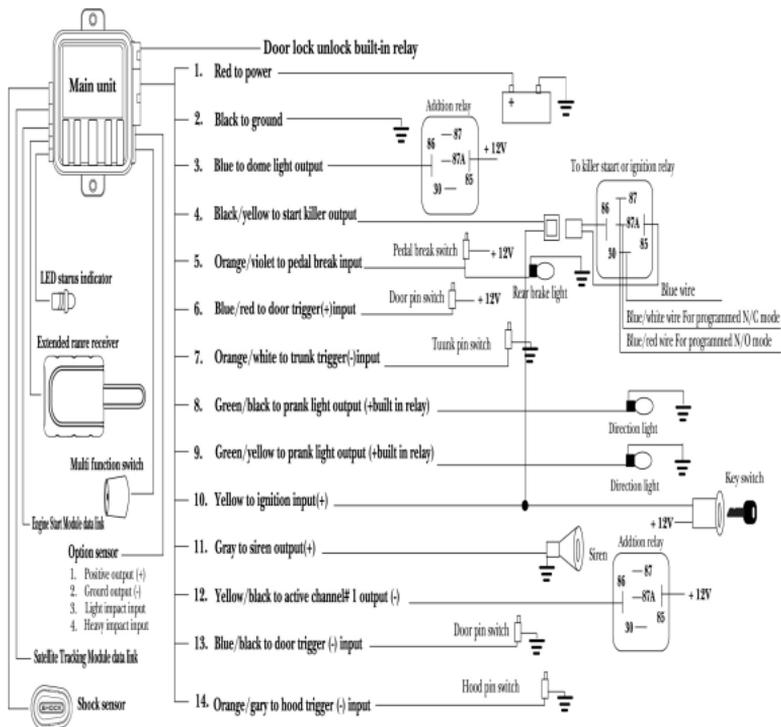
**Diagram (3) For the vehicle with pre-installed door lock relay control module while is fixed behind the control module**



**Diagram (4) for vehicle without re-mstalled door lock relay control module**



## Alarm module wiring diagram



◆ **Start function RF program**

1. Let ignition at OFF position
2. Press multi function switch [6] times
3. Immediately turn ignition ON. The siren sounds 6 chips & LED indicator flashes to indicate function RF programmable mode is activated.
4. While in the active programming mode. Each press on multi function switch is followed by one siren chirp & one LED flash and each fifth press is followed by a long chirp. Chirping pattern enables the programmer to know which features active mode he has achieved.
5. When the desired function changeable level is reached, press the related button for function selection. Siren chips 1~ 4 times for confirmation. Refer to below RF feature program table.(as shown in the Default change by remote's button column). The factory default is described in the shaded background.
6. After 10 sec or turning off ignition, system will automatically jump out RF feature programming.

◆ **Restore RF start function to factory default**

1. Let ignition at Off position
2. Press multi function switch [10] times
3. Immediately turn ignition. On The siren sounds 10 chips & LED flashes to confirm system's entry into standby RF function to factory default setting.
4. Press multi function switch 1 time The siren chips again .Then use remote button [  ] to get the system restore RF features to the factory

## ◆ Below functions need engine start module

Start function RF program table		Default change by remote's button			
M.F. switch	Features active mode with factory default	<input checked="" type="checkbox"/> 01  	<input checked="" type="checkbox"/> 02  	<input checked="" type="checkbox"/> 03 	<input checked="" type="checkbox"/> 04 
1 <sup>st</sup>	Extra engine running time	<input checked="" type="checkbox"/> <u>Off</u>	<input type="checkbox"/> 1 min	<input type="checkbox"/> 3 min	<input type="checkbox"/> 6 min
2 <sup>nd</sup>	Each time remote running time	<input checked="" type="checkbox"/> <u>5</u>	<input type="checkbox"/> 10	<input type="checkbox"/> 15	<input type="checkbox"/> 20
3 <sup>rd</sup>	Fixed interval auto start	<input checked="" type="checkbox"/> <u>24hours</u>	<input type="checkbox"/> 48 hours	<input type="checkbox"/> 4 hours	<input type="checkbox"/> 12 hours
4 <sup>th</sup>	Remote start with or without lock/arm	<input checked="" type="checkbox"/> <u>On</u>	<input type="checkbox"/> Off		
5 <sup>th</sup>	Remote start park light active.	<input checked="" type="checkbox"/> <u>On flash</u>	<input type="checkbox"/> On steady	<input type="checkbox"/> Off	
6 <sup>th</sup>	In arm mode after remote engine shot off the door will auto lock once.	<input checked="" type="checkbox"/> <u>Off</u>	<input type="checkbox"/> On		

◆ **Start Function RF Program Table Explanation**

1<sup>st</sup>. Extra engine running time

1. Choose this mode if the extra engine running timer is not needed.
2. From the time ignition is turned "OFF" by key, engine will keep on running for 1 min. and turn itself off automatically.
3. From the time ignition is turned "OFF" by key, engine will keep on running for 3 min and turn itself off automatically.
4. From the time ignition is turned "OFF" by key, engine will keep on running for 6 min and turn itself off automatically.

2<sup>nd</sup> Each time remote start running time

1. At this mode., remote engine starts with the engine run for" 5 " min then auto shutoff.
2. At this mode., remote engine starts with engine run for " 10 " min then auto shutoff.
3. At this mode., remote engine starts with engine run for "15 "min then auto shutoff.
4. At this mode., remote engine starts with engine run for " 20" min then auto s shutoff.

3<sup>rd</sup> Fixed interval auto start

1. At this mode., the system auto-starts with "24" hours interval .
2. At this mode, the system auto-starts with "48" hours interval .
3. At this mode, the system auto-starts with "4" hours interval .
4. At this mode., the system auto-starts with "12" hours interval .

4<sup>th</sup> Remote start with or without lock/arm

1. At this mode; if remote engine started with door being closed , the system will automatically enter arm/lock and start engine.
2. At this mode; if remote engine started, the system will not automatically enter arm/lock and start engine.

### 5<sup>th</sup> Remote start park light active

1. If remote engine start the alarm system park light will auto flash.
2. If remote engine start the alarm system park light will auto steady on.
3. If remote engine start the alarm system park light will not active.

### 6<sup>th</sup> In arm mode after remote engine shot off the door will auto lock once .

1. OFF.
2. ON. For car with the factory-installed device of auto door-unlock upon ignition. use this option.

## Engine Start Module wire guide

### ◆ 6 PIN wire

1. **Blue wire** = ACC output (+). The wire becomes active after 10 sec from remote engine run .
2. **Yellow wire** = IGN1 output (+).The wire is active during remote start and engine run
3. **Green wire** = IGN2 output (+) The wire is active depending on slider switch No.3 option
4. **Small Black/yellow wire** = Cut off the car's start wire and connect wire section of key side input (+) with this
5. **Big Black/yellow wire** = Cut off the car's start wire and connect wire section of motor side output (+) with this
6. **Red wire** = Positive power input 30a (+)

**Note:** The thin Black/yellow & thick Black/yellow wires work for anti-grind features

- 1) During remote stat & engine run, these will protect start in case that ignition key is used to start again
- 2) At arm mode, these will disable start motor if ignition key is used to start engine

### ◆ 8 PIN wire

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1. **Black wire**: Connect this to Ground input (-)
2. **Gray/black wire** = This wire will detect the RPM or Oil signal input depending on the slide switch's position .

Switch No.2 select OFF position and system gray/black wire needs connected to car's tachometer the system will depend RPM signal to confirmed engine start successful or not.

Switch No.2 select ON position and system gray/black wire is not connected (open) the system will depend voltage to confirmed engine start successful or not. If the wire connected to generator the system will depend generator signal to confirmed engine start successful or not.

3. **Black/red wire** : This works to disarm factory security output (-). If the car is pre-installed with security device "**like transponder**", this circuit is used to bypass it with the need of other external device.

### ◆ *RPM signal LED*

**Following procedure below, LED flashes proves Gray/black wire finds correct Tach wire**

- 1) Firstly, slide switch #2 to RPM option
- 2) Then slide switch # 6 to ON
- 3) Touch gray/black wire tip to any possible Tach wire's metal part
- 4) Led flashes when gray/black has connection with Tach. Connect them.

**Pre-test for correct wiring that will assure practical remote engine start**

- (a) Firstly connect main wire harness and engine start detect wire with EMS . Press " start engine running test switch" and see if the engine is started. The engine start confirms the wiring is correct.
- (b) Press again "start engine running test switch" to shutdown engine.
- (c) Go on connecting wire between ESM and car alarm module.
- (d) if step (a) test fails, re-check if all wires are properly connected.

◆ **Start engine running test switch**

- 1) Using this switch to test whether the remote start module is installed successful or not.
- 2) If the installation is well done, by pressing this switch one time the remote start module will activate and the engine will run. The second press on this switch the engine will stop. After this procedure, just connect the data wire of remote start module with main unit of car alarm.
- 3) Please check the installed wire if the engine can't run successfully by pressing the switch. Please pay more attention that only the remote start module can do engine running that you can connect remote startmodule with main unit of car alarm.

◆ **Connect alarm system data input/output**

If the Remote Start Module are installed, this connector does inter-communication works between main system.

◆ **Slider switch select function**

1. Voltage mode crank time. OFF = 0.8 sec. ON = 1.8 sec.
2. Engine start sense. OFF = Tach for RPM. ON = Generate or voltage
3. Ignition 2 relay program. OFF= Crank output ON= Crank no output
4. Transmission mode OFF= automatic transmission ON>manual
5. Gas/Diesel mode OFF=Gas ON=Diesel
6. RPM signal LED ON=turn on the RPM LED for Tach location/testing.

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