



# PORTMAN

PORTMAN ELECTRONICS (DONGGUAN) CO., LTD.

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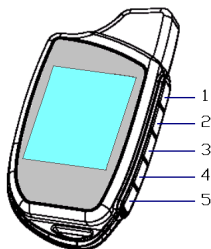
RX12 receiver  
Operation/ Installation Manual

RX12

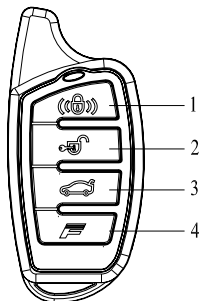
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01/13/2010  
Version 1.9

T35 (Two way)



T36 (One way)



T35 (Two way)	T36 (One way)	Functions	Conditions
Press button 1 once		Arm and lock doors Car finder with sound Stop alarm temporarily Remote lock doors	Disarmed and Ignition OFF Armed Sounding While driving
Press and hold button 1 for 2 sec.		Remote Panic	Anytime
Press button 2 once		Disarm/unlock Stop alarm temporarily Remote unlock doors	Armed Sounding While driving
Press and hold button 2 for 2 sec.		All door unlock/disarm	Arming
Press and hold button 3 for 2 sec.		Open trunk (Channel 1 output)	Anytime
Press button 4 once then press button 1 within 3 sec.		Active anti car hijacking	While driving
Press button 4 once then press button 2 within 3 sec.		Channel 2 output	Anytime
Press button 4 once then press button 3 within 3 sec.		Channel 3 output	Anytime
Press button 4 once then press button 4 within 3 sec.		Channel 4 output	Anytime

Press and hold button 4 for 2 sec.		Remote start on/off	When start procedure ready
Press button 1 + 4 once together		Arm with bypass shock sensor	Disarming and ignition OFF
Press button 3 + 4 once together		Manual active ready mode	Ignition on & disarming & handbrake on
Press button 5 once then press button 1 within 3 sec.	Press button 1 + 3 once together	Silent arm	Disarmed and ignition OFF
Press button 5 once then press button 2 within 3 sec.	Press button 2 + 3 once together	Silent disarm	Arming
Press button 5 once then press button 3 within 3 sec.	Press and hold button 1 + 3 for 2 sec	Silent arm with bypass ext. sensor	Disarmed and ignition OFF
Press button 5 once then press button 4 within 3 sec.	Press and hold button 3 + 4 for 2 sec	Timer start on/off	When start procedure ready
Press button 5 once then press button 5 within 3 sec.	Press button 2 + 4 once together	Valet mode on/off	Disarming
Press button 5 once then press and hold button 1 for 2 sec. within 3 sec. (only T35)		No alarm arm mode	Disarmed and ignition OFF
Press button 5 once then press and hold button 2 for 2 sec. within 3 sec. (only T35)		Car temperature monitor	Anytime
<b>Press button 1+5 once together (only T35)</b>		<b>Transmitter power on</b>	<b>Transmitter power off</b>
		<b>Transmitter power off</b>	<b>Transmitter power on</b>

Press button 5 once then press and hold button 5 for 2 sec. within 3 sec. (only T35)	Unit Program mode on	Ignition off & disarming & door open
Press and hold button 5 for 2 sec. (only T35)	Unit Program mode off	Ignition off & disarming & door open
	Transmitter program mode on/off	Anytime
Press button 4 once then press button 5 once within 3 sec. (only T35)	System status check	Anytime

Special function for T35

- Press button 1+5 to turn on /off transmitter power**
- In disarm mode, if the transmitter without any operation within 1~9 days, transmitter will chirp bi-bi-bi----for 5 times, then turn off the power**, in this time, press button 1+5 to turn on /off transmitter power, if the transmitter in arm mode, the transmitter power can not be turned off.
- If any button has been pressed exceed 10 seconds, transmitter will long chirp bi---bi--bi--- for 3 times, then light the icon (button 1 or 2 or 3 or 4 or 5) to indicate which button has locked.

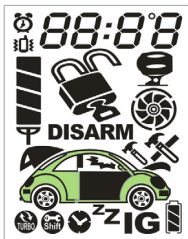
### T35 BACKLIGHT:















Button	Functions	Color
1 once	Arm and lock doors Car finder with sound Stop alarm temporarily Remote lock doors	Green
1 for 2 sec.	Remote Panic	
2 once	Disarm/unlock Stop alarm temporarily Remote unlock doors	
2 for 2 sec.	All door unlock/disarm	
3 for 2 sec.	Open trunk (Channel 1 output)	










4 -> 1 within 3 sec.	Active anti car hijacking	Blue
4 -> 2 within 3 sec.	Channel 2 output	
4 -> 3 within 3 sec.	Channel 3 output	
4 -> 4 within 3 sec.	Channel 4 output	Green
4 for 2 sec.	Remote start on/off	
1 + 4 once	Arm with bypass shock sensor	Red
3 + 4 once	Manual active ready mode	
5 -> 1 within 3 sec.	Silent arm	Blue
5 -> 2 within 3 sec.	Silent disarm	
5 -> 3 within 3 sec.	Silent arm with bypass ext. sensor	
5 -> 4 within 3 sec.	Timer start on/off	
5 -> 5 within 3 sec.	Valet mode on/off	
5 -> 1 for 2 sec. within 3 sec.	No alarm arm mode	
5 -> 2 for 2 sec. within 3 sec.	Car temperature monitor	
5 -> 5 for 2 sec. within 3 sec.	Unit Program mode on	Green
5 for 2 sec.	Unit Program mode off	
1+4 for 2 sec. (only T35)	Transmitter power on	Red
	Transmitter power off	Red
5 for 2 sec. (only T35)	Transmitter program mode on/off	Green
4 -> 5 within 3 sec. (only T35)	System status check	Blue

While the backlight was turned on, if without any action on T35 but alarm signal was received from unit, the Green backlight will turn on (green→blue→red.....)

## ICON:



ICON	Explanation
	Indicates that you car is locked
	Indicates that you car is unlocked
	Indicate that your siren is turned on when locking /unlocking or alarm
	Indicate that your remote-pager is sending signals to the controller unit
	Indicate that the shock sensor is turned off
	Indicate that the shock sensor has been triggered
	Indicate alarm clock mode is on
	Indication time hour, minute (24Hr)
	Vehicle's interior temperature Celsius / Fahrenheit units
	Indicate your vehicle is in arm mode
	Indicate your vehicle is in disarm mode
	Indicate if you are in valet mode
	Indicate that vibration mode is on
	Indicate channel output. (CH2, CH3, CH4... output function)

	Indicate that your trunk is open
	Indicate that your hood is open
	Display remaining battery life
	Indicate that your vehicle door is open
	Indicate the turbo mode is on
	Indicate function transfer and setting mode
	Indicate the ignition key on trigger
	Indicate your vehicle is in remote-start mode
	Indicate timer start mode is on

## TWO WAY TRANSMITTER T35 SETTING FUNCTION

Button	Function	Setting
Press 5 for 2 sec.	Enter Program mode	Anytime
Press 5 once	Enter time of hour setting	Press button 1 for time add Press button 2 for time reduce
Press 5 once	Enter time of minute setting	Press button 1 for time add Press button 2 for time reduce
Press 5 once	Temperature's unit °C & °F setting	Press button 1 for set °C Press button 2 for set °F
Press 5 once	Alarm clock ON/OFF	Press button 1 for alarm clock on Press button 2 for alarm clock off
Press 5 once	Enter clock hour setting	Press button 1 for time add Press button 2 for time reduce

Press 5 once	Enter clock minute setting	Press button 1 for time add Press button 2 for time reduce
Press 5 once	Setting backlight ON/OFF	Press button 1 to turn on backlight Press button 2 to turn off backlight
Press 5 once	Vibration motor ON/OFF	Press button 1 for vibration on Press button 2 for vibration off
Press 5 once	Arm/disarm siren chirp ON/OFF	Press button 1 for siren chirp on Press button 2 for siren chirp off
Press 5 once	Setting shock sensor bypass ON/OFF	Press button 1 for shock bypass on Press button 2 for shock bypass off
<b>Press 5 once</b>	<b>Auto power-off setting</b>	<b>Press button 1 for day increase</b> <b>Press button 2 for day reduce</b>
Press 5 for 2 sec.	Exit Program mode	Program mode

## TWO WAY TRANSMITTER T35 SETTING OPERATION:

Anytime Press 5 for 2 sec., the transmitter will enter program setting mode, then the ICON of the time clock, alarm clock, shock bypass, temperature unit, siren and vibrate, backlight LED will begin to flash.

The first setting item is HOUR, using button 1 or button 2 to adjust up and down the HOUR. After setting the HOUR, Press button 5 once to minute setting, the operation is the same as HOUR setting. Then the time clock setting is over, press button 5 once will enter the temperature unit setting, press button 1 set the temperature unit is °C, press button 2 set the temperature unit is °F, After the temperature unit setting, press button 5 once to alarm clock setting. If the alarm clock is setting ON, then auto entry the time clock setting, the procedure is the same as time clock setting. After the alarm clock setting, press button 5 once will enter the backlight LED setting; press button 1 to set the backlight LED function will ON, press button 2 set the backlight LED function will OFF (The backlight LED will not light when any button be pressed). After the backlight LED setting, press button 5 once will entry the vibration setting, press button 1 set the vibration function will ON (every trigger, the transmitter motor will continue running), press button 2 set the vibration function will OFF (every trigger, the transmitter motor will not running). After the vibration setting, press button 5 once will entry the sound setting, press button 1 set the sound



function will ON (the unit arm/disarm with chirp), press button 2 set the sound function will OFF (the unit arm/disarm without chirp). After the sound setting, press button 5 once will entry the shock bypass setting, press button 1 set the shock bypass function will ON (the unit arm with shock bypass), press button 2 set the shock bypass function will OFF (the unit arm without shock bypass), **press button 5 once will entry auto power off within the preset day, press button 1 to increase power-off day or button 2 to reduce power-off day. (PF:00 means the transmitter has set without auto power-off function, PF:01~PF:09 means auto power off is 1~9 day).**


### TAKE TIME SETTING FOR EXAMPLE (FOR T35)

Press 5 for 2 sec. to enter timer-setting mode, press button 1 for time add, press button 2 for time reduce, press button 5 to choose sub-setting, e.g. clock, hour, minute  
 In clock setting mode, when clock set with any number but not “0”, the timer setting is valuable, or else timer setting is invaluable.

### THE FUNCTION SETTING FOR USING THE TRANSMITTER (FOR T35)

Ignition OFF, disarming and door open, press and hold button 5 -> 5 for 2 sec. within 3 sec, the unit will enter function selection mode. If press and hold button 5 -> 5 for 2 sec. within 3 sec and don't enter the function selection mode successfully, T35 will chirp for 5 times to indicate the failure. At the same time, the Icon will show “FAIL” for 5 sec to indicate the reason for failure. After the 5 sec, the T35 screen will return to normal status.

### ICON FOR INDICATION OF THE FAILURE AS BELOW:

ICON	Explanation
	RF communication failed
<b>ARM</b>	The unit is not in disarming mode

When both the transmitter of T35 and main unit enter in to the function selection mode successfully, the siren will chirp 3 times to indicate that the main unit is under function selection mode. Transmitter T35 also will chirp 3 times to indicate the good condition of communication. At the same time, the LCD will show as below:





"F1 : 01" means : already in the menus of the function selection and show the First Status in the menus 1.

### FUNCTION AS BELOW:

Button	Functions	Indication
1 once	Return to the above function selection page	"F1 : 13" Show the function code if success , for example: "F1 : 13"
2 once	Go to the next function selection page	"F1 : 02" Show the function code if success , for example: "F1 : 02"
3 once	Skip to the menus of the function selection in next page (can be circulatory)	"F2 : 01" Show the function code if success , for example: "F2 : 01"
Hold 1 for 2 sec.	Turn the chose function to factory default and the main unit will operate this indication	If success, siren chirp once, flash "SUC" for 3 times If failure, siren chirp twice, flash "FAIL" for 3 times
Hold 2 for 2 sec.	Turn the chose function to the second setting and the main unit will operate this indication	If success, siren chirp once, flash "SUC" for 3 times If failure, siren chirp twice, flash "FAIL" for 3 times
Hold 3 for 2 sec.	Turn the chose function to the third setting and the main unit will operate this indication	If success, siren chirp once, flash "SUC" for 3 times If failure, siren chirp twice, flash "FAIL" for 3 times

Hold 4 for 2 sec.	Turn the chose function to the Four setting and the main unit will operate this indication	If success, siren chirp once, flash “SUC” for 3 times If failure, siren chirp twice, flash “FAIL” for 3 times
Hold 5 for 2 sec.	Exit the function choosing mode	The siren will chirp 4 times to indicate that the main unit already get out function selection mode. Transmitter T35 also will chirp 4 times, flash “SUC” for 3 times to indicate the goods condition of communication. At the same time, the LCD returns to the normal status.

## CANBUS FUNCTION

1. ARM IN +: This input wire is normally connected to the vehicle’s CANBUS interface. The system will enter arming mode when it detected arming signal from the CANBUS interface.
2. DISARM IN +: This input wire is normally connected to the vehicle’s CANBUS interface. The system will enter disarming mode when it detected disarming signal from the CANBUS interface.
3. Hood trigger -: This input wire is normally connected to the vehicle’s CANBUS interface. The system will alarm in arming mode when it detected hood trigger signal from the CANBUS interface.
4. Ignition input +: This input wire is normally connected to the vehicle’s CANBUS interface. If it detected ignition trigger signal from the CANBUS interface, then the system will alarm in arming mode, and the system will enter driving mode in disarming mode.
5. Door trigger -: This input wire is normally connected to the vehicle’s CANBUS interface. The system will alarm in arming mode when it detected door trigger signal from the CANBUS interface.
6. Trunk trigger -: This input wire is normally connected to the vehicle’s CANBUS interface. The system will alarm in arming mode when it detected trunk trigger signal from the CANBUS interface.

## PC SETUP FUNCTION

When unit is in disarming & Door open status, Select the correct COM port number, and then set the following functions

Setting	Value
Lock/unlock timer	0.5 seconds
Lock time	Same as J1
Unlock pulse	1 pulse
Arm/disarm with chirp	On
Arming delay time	3 seconds
Last door arming	On without lock
Auto re-arm	On without lock
Automatic door lock	On
Automatic door unlock	On
Alarm period	8 cycles
Smart immobilized	On
Siren alarm duration	30 seconds
Emergency override way	Simple way
Anti car jacking function	Off
Anti car jacking mode	Mode C
Programmable L1 output	Trunk (Channel 1) output
Programmable L2 output	Channel 2 output
Programmable L3 output	Channel 3 output
Programmable L4 output	Dome light output
Trunk (Channel 1) output	Momentary output
Horn timing	10ms
Ignition control dome light	On
Channel 2 output	Momentary output
Channel 3 output	Momentary output
Channel 4 output	Momentary output
Vehicle model	Automatic gear
Manual gear reservation	Manual set
Engine checking on/off	Engine checking on
Check mode when start	Voltage checking type
High/low voltage check level	High voltage check level
Cranking time	1.0s
Gasoline/Diesel	Gasoline 2s warm-up time
Remote timer start	12H
Warm-up duration	10 MIN
Parking light output during running	Flash
Turbo mode	Off
External module type	Idata
Crank time mode of tachometer checking type	4 Cycle tachometer sens

COM: COM5    Exit

Default    Apply    Request    Exit

Default: to use factory default setting

Request: read out the setting in the current page.

Apply: transfer the setting to unit in the current pages.

Exit: exit PC-Setup program.

## **BASIC CAR ALARM FUNCTION DESCRIPTION**

### **CODE LEARNING**

- a. When in disarmed mode.
- b. Turn ignition ON, press Valet Switch 10 times within 8 seconds, siren will chirp 3 times, system will enter code-learning mode.
- c. Press any button on the transmitter, the siren will chirp accordingly for confirmation as soon as the transmitter is learned. For example, if the first transmitter is learned, the siren will chirp once. If the second transmitter is learned, the siren will chirp twice, etc...
- d. Up to 3 transmitters can be programmed.
- e. If one of the transmitters is programmed, the other transmitters must be reprogrammed within 8 seconds. Turn ignition OFF or 8 seconds later, system will exit code- learning mode.

### **ARMING**

- a. Press button 1.
- b. Siren will chirp once. Parking lights will flash once.
- c. Disables engine starter.
- d. The doors will be locked after 0.5 seconds or 3.5 seconds. (see function selection J1-1)
- e. Two-way transmitter LCD screen will display arm and lock icon and chirp once.
- f. LED will flash slowly
- g. After 3 seconds, all the sensors are armed. If the alarm shock sensor is triggered within 3 seconds, the siren will chirp twice and the circuit will be by-passed. Alarm will rearm by itself only when the sensor is stable for 2 seconds.
- h. If doors, trunk, hood are not closed enter arm, siren will chirp 5 time and the transmitter LCD screen will display doors, trunk, and hood open icon.

### **ARMING WITH BYPASSING SHOCK SENSOR**

- a. Press button 4 and button 1 together once
- b. Siren will chirp once then long chirp once and parking light will flash once, the system is entry in armed mode, all sensors will be bypassed in this arming cycle.
- c. Two-way transmitter LCD screen will chirp once and display arm, lock and shock bypass icon.

## **SILENT ARMING**

- a. In disarming state, press button 3 and button 1 once together on T36 or press button 5 once then press button 1 once within 3 seconds.
- b. Parking light will flash once.
- c. Disables engine starter.
- d. Door will be locked at 0.5seconds or 3.5 seconds (See Function Selection J1-1).
- e. Two-way transmitter LCD screen will display arm and lock icon.
- f. After 3 seconds, all the sensors are armed. If the alarm shock sensor is triggered within 3 seconds, the siren will chirp twice and the circuit will be by-passed. Alarm will rearm by itself only when the sensor is stable for 2 seconds.
- g. LED will flash slowly.

## **SILENT ARMING WITH BYPASSING SHOCK SENSOR**

- a. In disarming state, press and hold button 3 + 1 together for 2 seconds on T36 or press button 5 once then press button 3 once within 3 seconds.
- b. Parking light will flash once, the system is entry in silent armed mode, all sensors will be bypassed in this arming cycle.
- c. Two- way transmitter LCD will display arm and chirp once, lock and shock bypass icon.

## **HIDDEN ALARM ARMING (ONLY FOR T35)**

- a. First press button 5 then press and hold button 1 for 2 seconds within 3 seconds
- b. Siren will chirp twice and parking light will flash twice, the system will entry in no alarm arming mode.
- c. In this arming mode, the siren and parking light will not alarm if any sensor will be triggered, but the system will remain send trigger signal to the transmitter.

## **ALARM PERIOD AND SOUNDING CYCLE**

- a. While arming, if any detector is triggered, the siren will sound 30 seconds (max) and the parking light will flash 30 seconds (max).
- b. For any single trigger, the siren will sound one cycle only. (One cycle is: sound 30 seconds and stop 3 seconds.)
- c. For the same arming period, and for each single detector, the system can only be triggered (single trigger) at most 8 times.

- d. For each individual detector, the number of sounding cycle can be accumulated in the same arming period. (E.g. If open the door, and let the siren sound 5 cycles, and close the door, the siren will stop sound, then if open the door again, it can only sound 3 cycles.)
- e. After 8 cycles, the triggered detector will be bypassed. This detector will not be triggered again in the same arming period.
- f. The system is disarmed; the all the detector is return normal status.

## **TRANSMITTER DISPLAY REPORT WHEN SYSTEM TRIGGER**

- a. The system is in arming status.
- b. If the shock sensor is warned triggered, the unit will send the information to transmitter, the transmitter LCD screen will display shock sensor warn trigger icon and piezo will continue sound.
- c. If the shock sensor or ext sensor is fully triggered, the unit will send the information to transmitter, the transmitter LCD screen will display shock sensor full trigger icon and piezo will continue sound.
- d. If the door is triggered, the unit will send the information to transmitter, the transmitter LCD screen will display door trigger icon and piezo will continue sound.
- e. If ignition has been triggered, the unit will send the information to transmitter, the transmitter LCD screen will display ignition trigger icon and piezo will sound continually.
- f. If the trunk is triggered, the unit will send the information to transmitter, the transmitter LCD screen will display trunk trigger icon and piezo will continue sound.
- g. If the hood is triggered, the unit will send the information to transmitter, the transmitter LCD screen will display hood trigger icon and piezo will continue sound.
- h. The transmitter alarm display (icon flash and piezo sound) will continuously for 30 seconds (max), within 30 seconds, press button 1 or button 2 will stop alarm.

## **DISARMING**

- a. Press button 2.
- b. Siren will chirp 3 times, parking lights will flash 3 times. If siren chirps 4 times and parking lights flash 4 times, which means the alarm has been triggered during arming state.
- c. Press button 3 and button 2 together once on T36 or press button 5 once then press button 2 once within 3 seconds on T35, the system will silent disarming, only parking light will flash indication.

- d. Doors will be unlocked after 0.5 seconds or 3.5 seconds (see function selection J1-1).
- e. If somewhere was triggered, the LED will flash to indicate as following:
 

Quick flash 2 times after a pause	Shock sensor or ext sensor full trigger
Quick flash 3 times after a pause	Door trigger
Quick flash 4 times after a pause	Trunk trigger
Quick flash 5 times after a pause	Hood trigger
Quick flash 6 times after a pause	IGN trigger
- f. Two-way transmitter LCD screen will display the triggered zone icon and unlock icon.
- g. Dome light will be ON for 30 seconds (if selective dome light output), and will be OFF when ignition ON.

### **AUTOMATIC REARMING (SEE FUNCTION SELECTION J1-7)**

After disarm, the system will be re-armed automatically or re-arm with door lock after 30 seconds if the ignition does not turn ON or the door is not open.

### **LAST DOOR ARMING (SEE FUNCTION SELECTION J1-6)**

- a. Turn ignition ON, then OFF and close the last door. After 30 seconds, the system will arm automatically or arm with door lock.
- b. If one of the doors is opened during the above mentioned 30 seconds periods, system will postpone enter arming mode till all doors are closed.

### **SMART IMMOBILIZATION (SEE FUNCTION SELECTION J1-11)**

- a. When ignition is turned to OFF for 2 min, if the alarm is not armed, the engine will be cut automatically and cannot be restarted. LED will be ON for 0.5 seconds and then OFF for 3 seconds, and circle.
- b. Exit auto-immobilization mode: when ignition OFF, press button 2 once, Or please perform OVERRIDE PROCEDURE.

### **2-STAGE SENSOR**

- a. If car receives a light shock, siren will chirp five times and parking lights will flash once for warning purpose.
- b. If car receives a heavy signal, siren will sound and parking lights will flash for 30 seconds immediately.





## **DOOR LOCK CONTROL (WHILE DRIVING)**

- a. Press button 1 to lock doors. The doors can be locked.
- b. Press button 2 to unlock doors. The doors can be unlocked.

## **AUTOMATIC DOOR LOCK (SEE FUNCTION SELECTION J1-8)**

When the system is disarming and the ignition turn from OFF to ON, door will lock after 15 seconds or door will lock with footbrake is press first.

## **AUTOMATIC DOOR UNLOCK (SEE FUNCTION SELECTION J1-9)**

When the ignition turns from ON to OFF, doors will automatically unlock.

## **SECOND UNLOCK (SEE FUNCTION SELECTION J2-4)**

If the system is selection second unlock on, press and hold button 2 for 2 seconds, the second unlock will output 300mA negative signal.

## **OPEN TRUNK (CHANNEL 1 OUTPUT) (SEE FUNCTION SELECTION J2-3 /J2-8)**

- a. Anytime, press and hold button 3 for 2 seconds will to open trunk (channel 1 output) (with 300mA negative output).
- b. The two-way transmitter LCD screen will display channel 1 output icon.
- c. If the system is in arming at this time, the trunk trigger, ext sensor is by-pass till the channel output off. After 4 seconds, the system is in arm mode again.

## **CHANNEL 2 OUTPUT (SEE FUNCTION SELECTION J2-4 /J2-11)**

- a. Anytime, first press button 4 once then press button 2 once within 3 seconds will to remote channel 2 output (with 300mA negative output).
- b. The two-way transmitter LCD screen will display channel 2 output icon.
- c. If the system is in arming at this time, the trunk trigger, ext sensor is by-pass till the channel output off. After 4 seconds, the system is in arm mode again.

### **CHANNEL 3 OUTPUT (SEE FUNCTION SELECTION J2-5 /J2-12)**

- a. Anytime, first press button 4 once then press button 3 once within 3 seconds will to remote channel 3 output (with 300mA negative output).
- b. The two-way transmitter LCD screen will display channel 3 output icon.
- c. If the system is in arming at this time, the trunk trigger, ext sensor is by-pass till the channel output off. After 4 seconds, the system is in arm mode again.

### **CHANNEL 4 OUTPUT (SEE FUNCTION SELECTION J2-6 / J2-13)**

- a. Anytime, first press button 4 once then press button 4 once within 3 seconds will to remote channel 4 output (with 300mA negative output).
- b. The two-way transmitter LCD screen will display channel 4 output icon.
- c. If the system is in arming at this time, the trunk trigger, ext sensor is by-pass till the channel output off. After 4 seconds, the system is in arm mode again.

### **PANIC MODE**

- a. Anytime press and hold button 1 for 2 seconds. The siren will sound and parking lights will flash for 30 seconds
- b. The two-way transmitter LCD screen will display siren icon and sound.
- c. Press button 1 or 2 to stop the panic.

### **CAR FINDER**

- a. The system is armed.
- b. Press button 1: siren will chirp 6 times, the parking lights will flash 12 times. At the same time, the door will lock.
- c. Press button 2 to stop car finder and disarm.

### **SYSTEM'S STATUS CHECK**

Anytime press button 4 once then press button 5 once within 3 seconds, the system's present status and current temperature will be shown on two-way transmitter LCD screen for five seconds.

## POWER ON MEMORY

This security system is equipped with circuitry that will allow the unit to remember its alarm status if the power is lost and then reconnected.

## VALET MODE

- a. The system is disarming, turn ignition ON, within 8 seconds press and hold valet switch 3 seconds for once or press button 2+4 once together on T36 or press button 5 twice within 3 seconds on T35.
- b. LED will be constantly ON, the parking light will flash once.
- c. The two-way transmitter LCD screen will display valet mode icon, which indicates that system enters valet mode.
- d. In VALET mode, siren will chirp once and parking lights will flash once when lock the door, and siren will chirp twice and parking lights will flash twice when unlock the door.
- e. In Valet mode, there is no arm and trigger alarm function, and it cannot enter smart immobilization and anti car jacking.
- f. Leave valet mode: press button 2+4 once together on T36 or press button 5 twice within 3 seconds on T35.
- g. LED will be OFF, and the parking light will flash twice which indicates that system exit valet mode.

## ANTI CAR JACKING (SEE FUNCTION SELECTION J2-1, 2)

The system provides 3 ways to enter anti-car jacking mode.

For MODE A, there are three ways to enter anti carjacking:

- a. When ignition ON, first press transmitter button 4 once then press button 1 once within 3 seconds to activate the anti carjacking.
- b. When ignition ON, after the door is opened, the system will enter anti carjacking. Within 10 seconds, pressing button 1 once of the transmitter will bypass the action of opening the door, and the system will exit anti carjacking mode. And the parking will flash once and siren will chirp once. Or perform **Emergency disarming to exit the anti car jacking mode, that is to say, Within 71 seconds press and hold valet switch once for one second to exit anti jacking mode.**

- c. After turning ignition ON, the system will enter anti carjacking mode at once. Within 10 seconds, pressing button 1 once of the transmitter will bypass the action of turning ignition ON, and the system will exit anti carjacking mode. And the parking will flash once and siren will chirp once. **Or perform Emergency disarming to exit the anti car jacking mode, that is to say, Within 71 seconds press and hold valet switch once for one second to exit anti jacking mode.**

For MODE B, there are two ways to enter anti carjacking:

The above b and a ways are available for mode B.

For MODE C, there is one way to enter anti carjacking:

The above a way is available for mode C.

## **WHEN THE SYSTEM ENTERS ANTI CARJACKING MODE**

- From the beginning to 15 seconds, nothing happen.
- From 16 to 30 seconds, the LED will blink slowly.
- From 31 to 45 seconds, the LED will blink fast and the siren will chirp once per 2 seconds.
- Form 46 to 70 seconds, the LED will blink fast and the siren will chirp once per seconds.
- After 71 seconds, the siren will sound and the parking light will flash continuously. The arming wire will output negative 300mA current.
- After turn ignition OFF, the siren will sound and the parking lights will flash for 3 minutes before they stop.
- Turn ignition ON again without exiting anti carjacking mode, the siren will sound and the parking lights will flash continuously again.

**TO EXIT:** perform **Emergency disarming to exit the antijacking**

**Note: when system entered anti car jacking, the transmitter cannot control the unit.**

**Emergency disarming** (See Function Selection J1-13)

Please refer to its instruction for emergency disarm the system as following:

### **1. SIMPLE WAY :**

**Please turn ignition ON, press and hold valet switch once for 1 second. Siren will chirp 4 times and the parking lights will flash 4 times, which indicates that the system is disarmed.**

## 2. 2ND WAY:

Please refer 2-pin code override procedure:

### 2-PIN CODE OVERRIDE PROCEDURE:

- a. Turn ignition ON, press valet switch 5 times within 8 seconds.
- b. After 8 seconds, the LED should stay ON solid for 5 seconds, after the 5 seconds LED begins to flash.
- c. When the LED flashes the 1st number of the 2-pin code, turn ignition OFF. Then turn back ON to wait for LED to flash the 2<sup>nd</sup> number of the 2-pin code. When the LED flashes the 2<sup>nd</sup> number of the 2-pin code, turn ignition OFF. When complete, siren will sound 4 times and **the parking lights will flash 4 times** to indicate system override, **which indicates that the system is disarmed.**
- d. If LED flashes over 12 times, it means the program exits override procedure.
- e. If failed the override procedure, will need to turn off the ignition and return to step a.

### PROGRAM PERSONAL 2 PIN CODE (FACTORY DEFAULT SETTING 1,2)

Pin code program procedure: (system disarmed)

- a. Turn ignition ON, press valet switch 5 times within 8 seconds.
- b. After 8 seconds, the LED should stay ON solid for 5 seconds, after the 5 seconds LED begins to flash.
- c. To change the factory pin code setting. Turn ignition OFF after the LED flashes the 1st pin code. Then turn ignition back ON to wait for LED to flash the 2<sup>nd</sup> pin code. When the LED flashes the 2<sup>nd</sup> number of the 2-pin code, Turn ignition OFF, If the pin code recognition failed, the system will exit pin code setting automatically.
- d. Then turn ignition ON, and set the pin code as the LED flashes your selected 1<sup>st</sup> pin, then turn ignition OFF. Siren will sound with number of times to indicate new pin code for the system. Follow the same method for the 2<sup>nd</sup> pin code. The new 2-pin code will be recorded in EEPROM IC when completed.

NOTE: If the 2<sup>nd</sup> pin code setting is incorrect then the system will default pin code setting. The PIN code should be within 1~9, 0 is not acceptable, wrongly input will exit the mode.

## REMOTE ENGINE START FUNCTION DESCRIPTION

### RPM LEARNING (SEE FUNCTION SELECTION J3-4)

- When the system is disarming and ignition ON, press valet switch 6 times within 10 seconds, the parking lights will flash twice to indicate that system has entered the RPM learning mode.
- Start the engine, when the RPM level is stabilized, press and hold valet switch till the parking lights will flash twice and the siren will chirp twice, which indicates the RPM value has been memorized successfully.

NOTE: The unit remote start defaults check mode is Voltage mode; before the system entry the RPM learning mode, user must connect the vehicle RPM wire to the unit and function selection must select the start check mode is RPM mode.

### TURBO MODE (SEE FUNCTION SELECTION J3-11)

- The turbo mode is used for protect the engine.
- Before the ignition is turned from ON to OFF (ignition must be ON more than 10 seconds), the engine will not shutdown immediately, but continue remain running for 3 minutes.
- The engine will stop running immediately if step foot brake or release hand brake.

### Reservation procedure for manual gear car (See Function Selection J3-1, J3-2)

- If the car is the manual gear car, the unit must to perform the reservation procedure before the remote engine start, the reservation procedure has two setting mode selection.
- The manual setting mode operation is following:
- When the engine running, before you turn ignition OFF to stop the engine, pulls up the hand brake, release the foot brake.
- Gear keeps in Empty position.
- Press button 3+4 once together.
- Turn ignition OFF, the engine will still remain running for 2 minutes. Within 2 minutes, open and close the door, the parking light will flash twice indicate that the reservation procedure is successful.

- g. In auto pre-set setting mode, when the engine running, Engine will automatically running 2 minutes after ignition off as reservation. Within 2 minutes, open and close the door, the parking light will flash twice indicate that the reservation procedure is successful.
- h. If reservation produce is failed, or within 2 minutes no any action, the parking light will flash four times indication, then you must perform the step again.
- i. Turn ignition ON, or open the hood, or press the foot brake, or pull down the hand brake will cause the unit to exit the reservation mode.

## REMOTE START OPERATION

Remote start activation: The following inputs will activate the Remote Start sequence and if a successful start enters the 'RUN' mode.

Transmitter activation: the transmitter button 4 is press and hold 2 seconds when the ignition is OFF.

**REMOTE START 'RUN' MODE:** The 'RUN' mode begins when the unit has recognized a successful start.

- a. RUN time: The unit will keep the engine running for a maximum of 10 minutes (5, 20,30min option) from the time of a successful start. The same time, the two-way transmitter LCD screen will display running time and countdown running time.
- b. The unit will exit the 'RUN' mode less than 10 minutes (5, 20,30min option) from the time of a successful start ONLY by Remote start de-activation input.

**EXIT REMOTE START:** The following inputs & operations will cause the unit to exit the 'RUN' mode and will not attempt to start again until the unit receives a remote start activation input.

(if reservation procedure is successful, then if user: 1 pull down the handbrake; 2 press the foot brake; 3 open the hood, the reservation procedure will canceled when remote start.)

- a. Transmitter de-activation: the Transmitter button 4 is press and hold 2 seconds of each other
- b. The unit has reached the end of the 10 minute 'RUN' time (5, 20,30min option).
- c. The unit detects a RPM signal at 8 times the programmed value (if RPM detect mode).

- d. Voltage input: in voltage mode the unit detects the voltage is drop 1.0V for more than 5 consecutively seconds during 'RUN' time (if voltage detect mode).
- e. Unsuccessful start attempts: Three consecutively unsuccessful start attempts.

## **TIMER START MODE OPERATION**

- a. Timer mode activation: Anytime, press and hold button 3+4 together for 2 seconds on T36 or press button 5 once then press button 4 once within 3 seconds on T35.
- b. The parking lights will flash 4 times as confirmation of activating 'Timer mode'.
- c. Timer mode start interval: The operator has the option to have the unit start every 12 or 1or 3 or 6 hours. Factory default is 12 Hour intervals. To select 12 or 1or 3 or 6 hour automatic start timer in feature programmable.
- d. When timer modes start successful, the two-way transmitter LCD screen will display the "time". NOTE1: This feature cannot be activated when the ignition is ON or the unit is in the 'RUN' mode.

NOTE2: 3 Unsuccessful starts attempts will count as 1 successful start. The unit will attempt to start again at the next Timer mode start interval.

**EXIT TIMER MODE:** The following inputs & operations will cause the unit to exit the 'TIMER' mode.

- a. Press and hold button 3+4 together for 2 seconds on T36 or press button 5 once then press button 4 once within 3 seconds on T35.
- b. (+) Input on the foot brake input wire
- c. (-) Input on the hand brake input wire
- d. (-) Input on the hood pin wire
- e. The ignition is ON while the unit is NOT in the 'RUN' mode.
- f. The unit has called the Remote Start activation option additional times.
- g. 'RUN' mode is exited due to RPM signal 8 times programmed value (if RPM detect mode).

## **DIAGNOSTICS MODE**

When the engine stop running. Than the parking light will flash "N" times indicate the reason for shutdown.

The indications are as follows:

- 1Flash 10(5, 20, 30) min run timer expired or transmitter activation input.
- 2Flashes Low or No RPM signal received.



- 3Flashes hand brake input shut down.
- 4Flashes foot brake or open hood input shut down.
- 5Flashes High RPM signal over speed shut down
- 6Flashes RPM has not learned.
- 7Flashes voltage not raised or voltage has drop
- 8Flashes manual gear car not perform the reservation procedure

## **RETURN TO FUNCTION FACTORY DEFAULT SETTING**

- a. In disarming status, turn Ignition OFF to ON 4 times, and ignition will stay in on position.
- b. Press valet switch 12 times then press once again and hold it until 6 chirps with a long chirp is hearing then release the valet switch.
- c. The all-programmable feature returns to factory default setting.

## **FUNCTION SELECTION**

- a. The function selection is programmable. Please follow the procedure.
- b. In disarming status, turn ignition on (must 5 seconds longer after last ignition off).
- c. Within 8 seconds, press valet switch 3 times, then press once again and hold it for 3 seconds. System will chirp once to indicate entering function menu 1 selection, if not releasing the valet switch and hold on for 6 seconds, system will chirp twice to indicate entering function menu 2 selection, if still hold on for 9 seconds, system will chirp three times to indicate entering function menu 3 selection.
- d. After entering manuals, presses Valet Switch to select the function to be changed within 20 seconds, system will chirp each time when Valet Switch is pressed and released.
- e. When reach the times of selected function, press button 1 once or button 2 once or button 3 once or hold button 4 for 2 seconds (or press button 2 once to select variable value 1, press button 2 once again to select variable value 2, press button 2 once again to select variable value 3) of the remote control to select. The siren will chirp once when button 1 confirms the factory value, the siren will chirp twice when button 2 is the optional variable value 2. The siren will chirp three times when button 3 confirms the optional variable value 3, the siren will chirp four times when button 4 for 2 seconds confirms the optional variable value 4.
- f. When exceed 20 seconds or turn ignition off, system will have a long beep and leave function selection mode.

## FEATURE MENU 1:

Function selection		Pre set value (1 chirp)	Variable 1 set-up (2 chirps)	Variable 2 set-up (3 chirps)	Variable 3 set-up (4 chirps)
J1-1	Lock/unlock timer	0.5 seconds	3.5 seconds		
J1-2	Lock time	Same as J1	15 seconds	30 seconds	
J1-3	Unlock pulse	1 pulse	2 pulse		
J1-4	Arm/disarm with chirp	On	Off		
J1-5	Arming delay time	3 seconds	30 seconds		
J1-6	Last door arming	On, without lock	Off	On with lock	
J1-7	Auto re-arm	On, without lock	Off	On with lock	
J1-8	Automatic door lock	On	Off	Lock with footbrake	
J1-9	Automatic door unlock	On	Off		
J1-10	Alarm period	8 cycles	No limit		
J1-11	Smart immobilized	On	Off		
J1-12	Siren alarm duration	30 seconds	60 seconds		
J1-13	Emergency override way	Simple way	2 pin code way		
J1-14	Default setting	On			

## FEATURE MENU 2:

Function selection		Pre set value (1 chirp)	Variable 1 set-up (2 chirps)	Variable 2 set-up (3 chirps)	Variable 3 set-up (4 chirps)
J2-1	Anti car jacking function	Off	On		
J2-2	Anti car jacking mode	Mode C	Mode B	Mode A	
J2-3	Programmable L1 output	Trunk (Channel 1) output	CH1 output and disarm	Output pulse after start	Output pulse during crank

J2-4	Programmable L2 output	Channel 2 output	Second unlock output	CH2 output and disarm	Output pulse before start
J2-5	Programmable L3 output	Channel 3 output	Horn output	CH3 output and disarm	Output pulse after shutdown
J2-6	Programmable L4 output	Dome light output	Channel 4 output	CH4 output and disarm	Remote start status output
J2-8	Trunk (Channel 1) output	Momentary output	Latched output	Latched output and reset with ignition ON	30 seconds timed
J2-9	Horn timing	10ms	50ms	20ms	30ms
J2-10	Ignition control dome light	On	Off		
J2-11	Channel 2 output	Momentary output	Latched output	Latched output and reset with ignition ON	30 seconds timed
J2-12	Channel 3 output	Momentary output	Latched output	Latched output and reset with ignition ON	30 seconds timed
J2-13	Channel 4 output	Momentary output	Latched output	Latched output and reset with ignition ON	30 seconds timed
J2-14	Default setting	On			

**FEATURE MENU 3:**

Function selection		Pre set value (1 chirp)	Variable 1 set-up (2 chirps)	Variable 2 set-up (3 chirps)	Variable 3 set-up (4 chirps)
J3-1	Vehicle model	Automatic gear	Manual gear		
J3-2	Manual gear reservation setting	Manual set	Auto pre-set		
J3-3	Engine checking on/off	Engine checking on	Engine checking off		
J3-4	Check mode when start	Voltage checking type	Tachometer checking type		
J3-5	High/low voltage check level	High voltage check level	Low voltage check level		
J3-6	Cranking time	1.0s	0.6s	0.8s	2.0s
J3-7	Gasoline/Diesel	Gasoline 2s warn-up timer	Diesel 15s warn-up timer	Diesel 30s warn-up timer	Diesel 45s warn-up timer
J3-8	Remote timer start	12H	1H	3H	6H
J3-9	Warm-up duration	10 MIN	5MIN	20MIN	30MIN
J3-10	Parking light output during running	Flash	Steady on		
J3-11	Turbo mode	Off	On		
J3-12	External module type	Idata	Fortin	GP300	
J3-13	Crank time mode of tachometer checking type	4 Cycle tachometer sensing	Smart tachometer sensing	2 Cycle tachometer sensing	
J3-14	Default setting	On			

## **FEATURE MENU 1 EXPLANATION:**

### **J1-1. LOCK/UNLOCK TIMER**

Pre-set: After press arm/disarm, the door is locked/unlocked output 0.5 seconds.

Variable 1: After press arm/disarm, the door is locked/unlocked output 3.5 seconds.

### **J1-2. LOCK TIMER**

Pre-set: same as J1.

Variable 1: After press arm the door is locked output 15 seconds.

Variable 2: After press arm the door is locked output 30 seconds.

### **J1-3. UNLOCK PULSE**

Pre-set: After presses disarm the door is unlocked output one pulse.

Variable 1: After presses disarm the door is unlocked output two pulse.

### **J1-4. ARM/DISARM WITH CHIRP**

Pre-set: Arm/Disarm will have chirp indication.

Variable 1: Arm/Disarm will not have chirp indication.

### **J1-5. ARMING DELAY TIME**

Pre-set: delay 3s.

Variable 1: delay 30s.

### **J1-6. LAST DOOR ARMING**

Pre-set: Turn ignition ON to OFF and close the last door. After 30seconds, the system will arm itself without lock.

Variable 1: Delete this feature.

Variable 2: Turn ignition ON to OFF and close the last door. After 30seconds, the system will arm itself with lock.

## **J1-7. AUTO RE-ARM**

Pre-set: The system is disarming without ignition ON or open the door. After 30seconds, the system will arm itself without lock.

Variable1: Delete this feature.

Variable2: The system is disarming without ignition ON or open the door. After 30seconds, the system will arm itself with lock.

## **J1-8.AUTOMATIC DOOR LOCK**

Pre-set: When the ignition turns from OFF to ON, doors will lock after 15 seconds.

Variable1: When the ignition turns from OFF to ON, door will not lock.

Variable2: When the ignition turns from OFF to ON, door will lock with press the footbrake first.

## **J1-9.AUTOMATIC DOOR UNLOCK**

Pre-set: When the ignition turns from ON to OFF, doors will unlock immediately.

Variable1: When the ignition turns from ON to OFF, door will not unlock.

## **J1-10.ALARM PERIOD**

Pre-set: the system can only be triggered at most 8 times.

Variable1: the system's triggered times is no limited.

## **J1-11.SMART IMMOBILIZE**

Pre-set: this feature exists.

Variable 1: Delete this feature

## **J1-12. SIREN ALARM DURATION TIME**

Pre-set: the system is triggered; the siren and parking light will alarm 30 seconds.

Variable 1: the system is triggered; the siren and parking light will alarm 60 seconds.



## **J1-13. EMERGENCY OVERRIDE WAY**

Pre-set: simple way.

Variable 1: 2 pin code way

## **J1-14. DEFAULT SETTING**

Pre-set: Return the feature menu 1 to the factory set-up.

## **FEATURE MENU 2 EXPLANATION:**

### **J2-1. ANTI CAR-HIJACKING**

Pre-set: Delete anti car-hijacking feature.

Variable 1: Follow procedure to enter anti car-hijacking mode.

### **J2-2. ANTI CAR-HIJACKING MODE SELECT**

Pre-set: entry anti car-hijacking way is mode C.

Variable 1: entry anti car-hijacking way is mode B.

Variable 2: entry anti car-hijacking way is mode A.

### **J2-3. PROGRAMABLE L1 OUTPUT SELECT**

Pre-set: Trunk (channel 1) output.

Variable1: Trunk (channel 1) output and disarming

Variable2: output pulse after start. The wire will provide a 1 seconds -300mA pulsed ground output after the vehicle is started under control of the remote start unit. Typically this wire will be used to re-lock the vehicle doors if the doors unlock automatically when the factory anti-theft system is disarmed.

Variable 3: output pulse during crank. The wire will provide a -300mA ground output while the starter output of the remote start unit is active. This output can be used to activate the Crank Low/Bulb Test wire found in some GM vehicles. This wire is also referred to as the ECM wake up wire in some Chrysler vehicles.

## **J2-4. PROGRAMMABLE L2 OUTPUT SELECT**

Pre-set: channel 2 output.

Variable1: seconds unlock output.

Variable2: channel 2 output and disarming

Variable 3: output pulse before start. The wire will provide a 1 seconds -300mA pulsed ground output 1.5 seconds before the remote start unit activates as well as when the transmitter is used to unlock the system to prevent false triggering of the factory alarm when the remote start unit engages or when the system is used to unlock the doors.

## **J2-5. PROGRAMMABLE L3 OUTPUT SELECT**

Pre-set: channel 3 output.

Variable1: horn output.

Note: horn output honk time is by J2-9 feature selection. Alarm output is on 10ms, off 200ms.

Variable2: channel 3 output and disarming

Variable 3: output pulse after shutdown. The wire will provide a 1 seconds -300mA pulsed ground output after the remote start unit shuts down. This output will occur regardless of whether the circuit times out or is manually terminated. Typically this output will be used to re-lock/re-arm the vehicle if the doors unlock automatically when the ignition circuit transitions to off or the factory anti-theft system is disarmed.

## **J2-6. PROGRAMMABLE L4 OUTPUT SELECT**

Pre-set: dome light output: when the system is alarming, the dome light ON as parking light. When disarm, dome light will ON until ignition ON (max 30 seconds).

Variable1: channel 4 output.

Variable2: channel 4 output and disarm

Variable 3: status continuant output when remote start.

## **J2-8. TRUNK (CHANNEL 1) OUTPUT MODE SELECT**

Pre-set: Momentary output: Anytime, press button 3 for 2sec. the CH1 will output-300mA constantly. Until the button 3 of transmitter are released.





Variable1: Latched output: this selection will output a –300mA signal from the channel 1 output as soon as the channel 1 button is pressed and will continue until the button is pressed again.

Variable2: Latched output/reset with ignition ON: this selection will output a –300mA signal from the channel 1 output as soon as the channel 1 button is pressed but will reset or stop when the ignition is turned ON.

Variable3: 30 seconds output: this selection will continue output a 30 seconds –300mA signal from the channel 1 output as soon as the channel 1 button is pressed.

## **J2-9.HORN TIMING SETTING**

Pre-set: If setting horn output, when the system is arm/disarm with horn honk, the horn honk default timing is 10ms.

Variable1: the horn honk timing is 50ms.

Variable2: the horn honk timing is 20ms.

Variable3: the horn honk timing is 30ms.

## **J2-10. IGNITION CONTROL DOME LIGHT**

Pre-set: the dome light will off when ignition turn from off to on position, the dome light will illume (max: 30s) when ignition turn from on to off position.

Variable 1: the dome light will not illume when ignition turn from on to off position.

## **J2-11. CHANNEL 2 OUTPUT MODE SELECT**

Pre-set: Momentary output: Anytime, within 3 seconds press button 4 once then press button 2 once, CH2 will output-300 mA.

Variable1: Latched output: this selection will output a –300mA signal from the channel 2 output as soon as the channel 2 button is pressed and will continue until the button is pressed again.

Variable2: Latched output/reset with ignition ON: this selection will output a –300mA signal from the channel 2 output as soon as the channel 2 button is pressed but will reset or stop when the ignition is turned ON.

Variable3: 30 seconds output: this selection will continue output a 30 seconds –300mA signal from the channel 2 output as soon as the channel 2 button is pressed.



## **J2-12. CHANNEL 3 OUTPUT MODE SELECT**

Pre-set: Momentary output: Anytime, within 3 seconds press button 4 once then press button 3 once, CH3 will output-300 mA

Variable1: Latched output: this selection will output a -300mA signal from the channel 3 output as soon as the channel 3 button is pressed and will continue until the button is pressed again.

Variable2: Latched output/reset with ignition ON: this selection will output a -300mA signal from the channel 3 output as soon as the channel 3 button is pressed but will reset or stop when the ignition is turned ON.

Variable3: 30 seconds output: this selection will continue output a 30 seconds -300mA signal from the channel 3 output as soon as the channel 3 button is pressed.

## **J2-13.CHANNEL 4-OUTPUT MODE SELECT**

Pre-set: Momentary output: Anytime, within 3 seconds press button 4 once then press button 4, CH4 will output -300 Ma.

Variable1: Latched output: this selection will output a -300mA signal from the channel 4 output as soon as the channel 4 button is pressed and will continue until the button is pressed again.

Variable2: Latched output/reset with ignition ON: this selection will output a -300mA signal from the channel 4 output as soon as the channel 4 button is pressed but will reset or stop when the ignition is turned ON.

Variable3: 30 seconds output: this selection will continue output a 30 seconds -300mA signal from the channel 4 output as soon as the channel 4 button is pressed.

## **J2-14. DEFAULT SETTING**

Pre-set: Return the feature menu 2 to the factory set-up.



## **FEATURE MENU 3 EXPLANATION:**

### **J3-1. VEHICLE MODE**

Pre-set: Automatic gear car: Without 'ready mode', remote start directly

Variable1: Manual gear car: The 'ready mode' routine has been completed successfully system can remote start

### **J3-2. MANUAL GEAR CAR RESERVATION SETTING MODE**

Pre-set: Manual setting: When the engine running, press button 3+4 once to routine 'ready mode'

Variable1: Auto pre-set setting: When the engine running exceed 10 seconds, ignition OFF will automatically routine 'ready mode'

### **J3-3. ENGINE CHECK SELECTION WHEN REMOTE START**

Pre-set: Engine check ON: remote start successfully, to detect voltage rise or RPM signal. (if voltage rise or RPM signal is interrupted suddenly, the unit will start two times).

Variable 1: Engine check OFF: remote start successfully, to detect voltage rise or RPM signal. (if voltage rise or RPM signal is interrupted suddenly, the unit will not start).

### **J3-4. CHECK MODE WHEN START**

Pre-set: Voltage checking type.

Variable 1: RPM checking type.

### **J3-5. VOLTAGE CHECK LEVEL**

Pre-set: High voltage checks level.

Variable 1: Low voltage checks level.

### **J3-6. CRANK TIME SELECTION**

Pre-set: 1 second.

Variable1: 0.6 seconds.

Variable2: 0.8 second.

Variable3: 2 seconds.

### **J3-7. GASOLINE ENGINE/DIESEL ENGINE**

Pre-set: Gasoline engine without wait-to-start light 2 seconds warm-up timer.  
Variable1: Diesel engine without wait-to-start light 15 seconds warm-up timer.  
Variable2: Diesel engine without wait-to-start light 30 seconds warm-up timer.  
Variable3: Diesel engine without wait-to-start light 45 seconds warm-up timer.

### **J3-8. TIMER REMOTE START**

Pre-set: interval time is 12 hours in timer remote start.  
Variable1: interval time is 1 hour in timer remote start.  
Variable2: interval time is 3 hours in timer remote start.  
Variable3: interval time is 6 hours in timer remote start.

### **J3-9. REMOTE START WARM-UP DURATION**

Pre-set: 10 minutes.  
Variable1: 5 minutes.  
Variable2: 20 minutes.  
Variable3: 30 minutes.

### **J3-10. PARKING LING OUTPUT DURING RUNNING MODE**

Pre-set: keeping flash during running mode.  
Variable1: keeping steady on during running mode.

### **J3-11. TURBO MODE**

Pre-set: Turbo mode selection off.  
Variable 1: Turbo mode selection on.

### **J3-12. EXTERNAL MODULE TYPE**

Pre-set: I data link mode  
Variable 1: Fortin mode;  
Variable 2: GP300

### J3-13. CRANK TIME MODE OF TACHOMETER CHECKING TYPE

Pre-set: the engine remote start detect tachometer signal is 4-cycle pulse of tachometer.

Variable 1: the engine remote start detect tachometer signal is alterable by tachometer pulse frequency.

Variable 2: the engine remote start detect tachometer signal is 2-cycle pulse of tachometer.

### J3-14. DEFAULT SETTING

Pre-set: Return the feature menu 3 to the factory set-up.

### PHYSICAL PARAMETERS

Enclosure dimensions	122*77*22mm
Weight	120g

### ELECTRICAL

DC Supply voltage	12V
DC Tolerance voltage	9V~16V
Current (With RF)	< 17mA
Current (Without RF)	< 10mA

### RF PARAMETERS – T35

Frequency	910~918.4mHz
Battery life	Half a year
TX range (with RX12)	1000Meter
Static current	< 10uA

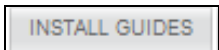
## INSTALLATION GUIDE FOR IDATALINK CONNECTED WITH AM9600

IDATALINK module (ADS-BLADE AL or ADS-BLADE TB) can be selected to work with AM9600 optional, the IDATALINK module can be used for bypass IMMOBILIZER SYSTEM for vehicle, and it can read RPM/DOOR/HAND BRAKE/FOOT BRAKE etc status, the IDATALINK module can remote control arm/disarm OEM alarm, it's valuable for saving vehicle installation time.

The read out status is different for different IDATALINK module match with different vehicle, detailed information please login <http://www.idatalink.com/> and read relevant content.

Download installation manual (example for Nissan vehicle)

1. Login [http://store.idatalink.com/index.php?l=product\\_detail&p=70](http://store.idatalink.com/index.php?l=product_detail&p=70)
2. Select



3. Download



then save it.

Note: quickly to find relative user guide in homepage:



Download IDATALINK explanation:

To download IDATALINK program and buy “ADS-USB” as below picture:

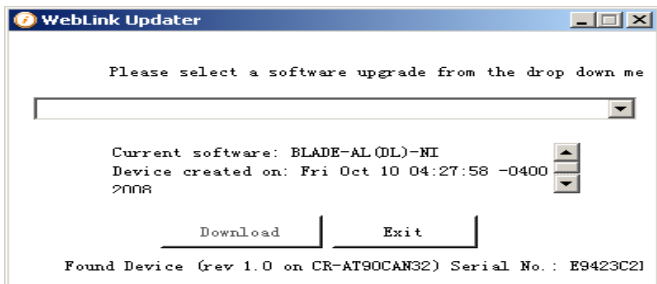




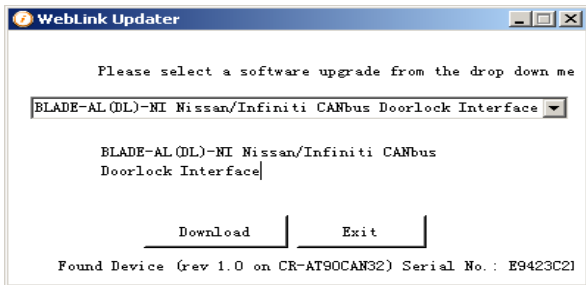
1. download Weblink Updater software: <http://www.idatalink.com/>, select SUPPORT —> then click Weblink plug-in 4.1 to download the software.
2. Install Weblink plug-in 4.1 program
3. While the program has installed, then insert ADS-BLADE AL into AM9600, and make sure the connection is good. Then connect AM9600 (IDATA UPGRADE PORT) to PC through "ADS-USB" (AM9600 do not need power supply)



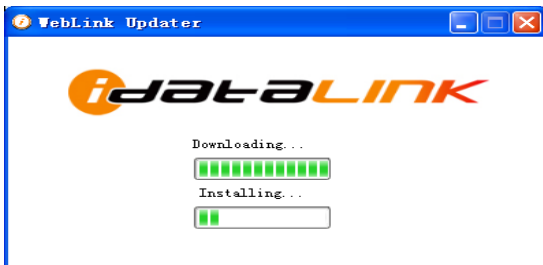
4. to start "ADS Plug in 4.1" in start menu —> select Legacy WebLink 2.0 to quickly search module, while the module has searched out, the below interface will jump out:



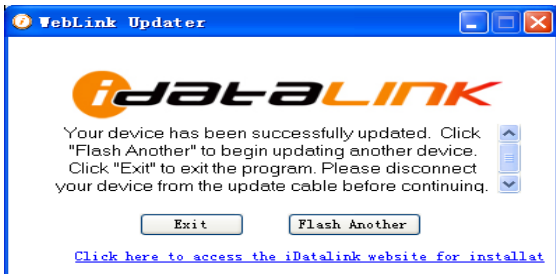
Select "BLADE-AL(DL)-NI Nissan/Infiniti CANbus Doorlock Interface" (keeping internet connection is good)



Then Download



While download has finished, click "EXIT"





## INSTALL TYPE SELECTION

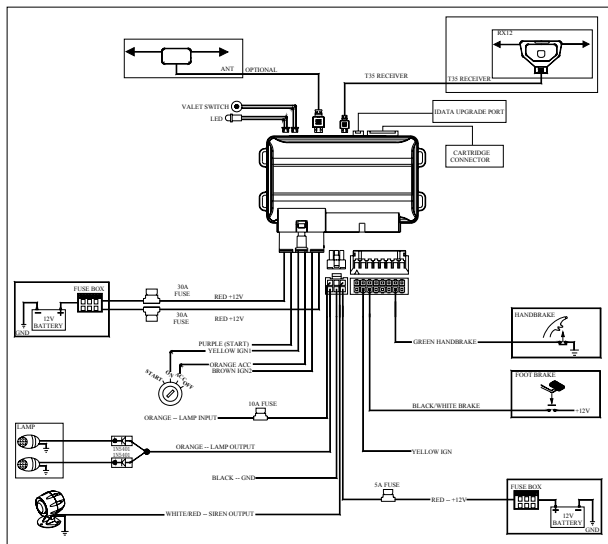
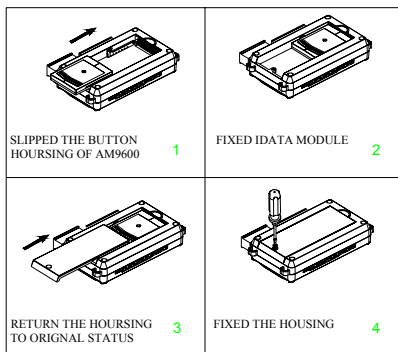
MAKE	MODEL	YEAR	INSTALL TYPE	FEATURES																
				IMMOBILIZER BYPASS	SAFE TAKE OVER	PRIORITY UNLOCK	DOORLOCKS	ARM OEM ALARM	DISARM OEM ALARM	TRUNK/HATCH RELEASE	DOOR STATUS OUTPUT	HOOD STATUS OUTPUT*	TRUNK STATUS OUTPUT	BRAKE OUTPUT**	TACHOMETER OUTPUT	HAND BRAKE OUTPUT				
NISSAN	350Z	03-04	1	*																
	350Z	05-08	1	*	*	*				*	*	*	*							*
	Altima	05-06	1	*	*	*				*	*	*	*							*
	Altima Push To Start <sup>†</sup>	07-09	3	*	*	*				*	*	*	*	*	*	*	*	*	*	*
	Armada	05-08	1	*	*	*				*	*	*	*							*
	Cube	09	1	*	*	*				*	*	*	*							*
	Cube Intelli-Key	09	6	*	*	*				*	*	*	*	*	*	*	*	*	*	*
	Frontier	05-09	1	*	*	*				*	*	*	*							*
	Maxima	04	1	*						*	*	*	*							*
	Maxima	05-08	1	*	*	*				*	*	*	*							*
	Maxima Intelli-key	05-08	2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Maxima Push To Start <sup>†</sup>	09	3	*	*	*				*	*	*	*	*	*	*	*	*	*	*
	Murano	03-04	1	*																
	Murano	05-07	1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Murano Intelli-Key	05-07	2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Murano Push To Start w/o Intelli-key <sup>†</sup>	09	4	*	*	*				*	*	*	*	*	*	*	*	*	*	*
	Murano Push To Start Intelli-Key <sup>†</sup>	09	4	*	*	*				*	*	*	*	*	*	*	*	*	*	*
	Pathfinder	05-08	1	*	*	*				*	*	*	*	*	*	*	*	*	*	*
	Pathfinder Intelli-Key	09	2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Quest	04	1	*						*	*	*	*							*
Quest	05-08	1	*	*	*				*	*	*	*	*	*	*	*	*	*	*	
Rogue	08	1	*	*	*				*	*	*	*	*	*	*	*	*	*	*	

Please refer the installation manual, such as the above picture

For example: model Maxima Intelli-key in the year of 05~08, the previous DOWNLOAD software can be matched with the vehicle and IMMOBILIZER BYPASS/ARM(DISARM) OEM ALARM/DOOR/HOOR/RPM function are supposed. To realize the function, please refer the relevant installation guide and wire connection according to TYPE2 (CARTRIDGE CONNECTOR), the following wires which belong AM9600 must be connect:

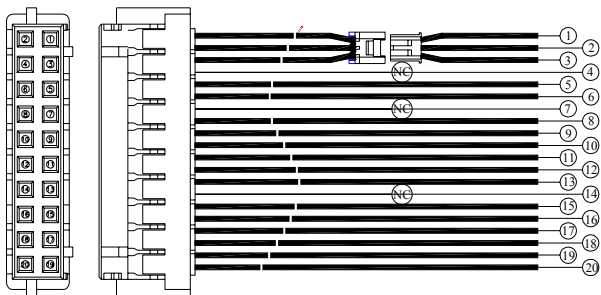
\* ANT/LED/SWITCH need to connect with AM9600. The other wires connection according to user requirements, the operation and explanation refer to the manual of AM9600.

## IDATA MODULE INSTALLATION DRAWING

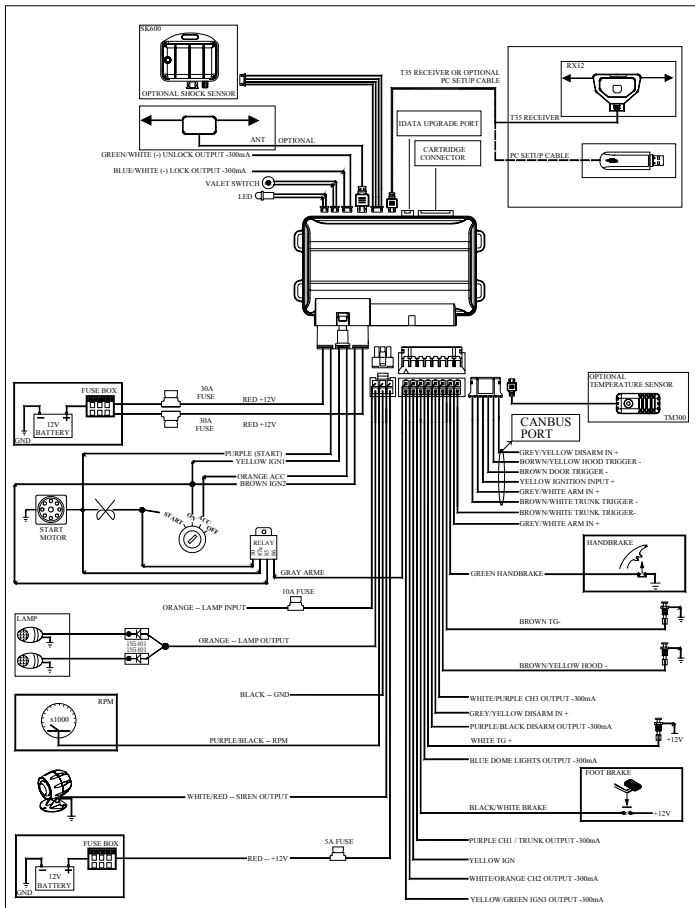


# AM9600 INSTALLATION GUIDE

## CARTRIDGE CONNECTOR



①	WHITE/RED	RELAY (N.C)
②	WHITE/BLACK	RELAY (COM)
③	WHITE	RELAY (N.O)
④	---	---
⑤	PINK/BLACK	POS _ OUT
⑥	PINK	POS _ IN
⑦	---	---
⑧	BLACK	PASS LOCK _ GND
⑨	BROWN/RED	CAN-H
⑩	BROWN/YELLOW	CAN-L
⑪	ORANGE/BLACK	UBP
⑫	ORANGE/WHITE	ISO9141 _ L
⑬	ORANGE	J1850 + / SW - CAN
⑭	---	---
⑮	BLUE/RED	BYPASS _ IN
⑯	BLUE/YELLOW	BYPASS _ OUT
⑰	GREEN/RED	DATA _ OUT _ 1
⑱	YELLOW	ANALOG
⑲	GREY/RED	DATA _ OUT _ 0
⑳	GREY/YELLOW	DATA _ IN _ 0



You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions

- (1) This device may not cause harmful interference and
- (2) This device must accept any interference received, including interference that may cause undesired operation