

# **COMMANDO**

**MODEL FM-870**  
REMOTE ENGINE STARTER  
WITH ALARM SYSTEM  
OWNER'S MANUAL

<b>TABLE OF CONTENTS:</b>					
<b>A. REMOTE TRANSMITTER OPERATION</b>	.....				
4					
<b>B. BUTTON LOCK</b>	.....				
4					
<b>C. LED DISPLAY</b>	.....				
5					
<b>D. CHIRP INDICATOR</b>	.....				
5					
<b>E. PARKING LIGHT</b>	.....				
5					
<b>F. ALARM OPERATION CONDITION</b>	.....				
5					
<b>G. ACTIVE ARMING – ARM &amp; LOCK</b>	.....				
5					
Defective Sensor Reminder					
Silent Arming / Disarming					
Shock Sensor By-Pass					
<b>H. PASSIVE ARMING</b>	.....				
6					
Passive Arming with Passive Door Locking					
Passive Arming By-Pass					
<b>I.           ACTIVE                   DISARMING                   –                   UNLOCK                   &amp;</b>					
<b>DISARM</b>	.....6				
Tamper Disarming					
Pathway Illumination					
Two Steps Door Unlock					
Automatic Re-Arm					
<b>J. DISARMING WITHOUT A TRANSMITTER</b>	.....				
6					
Overrides the Alarm without Password Pin Code					
Overrides the Alarm With Password Pin Code					
<b>K. VALET MODE</b>	.....				
7					
Enter Valet Mode					
Exit Valet Mode					
<b>L. CAR LOCATOR</b>	.....				
7					
<b>M. PANIC FUNCTION</b>	.....				
7					
<b>N. TRIGGER THE SYSTEM</b>	..... 8				
Clear The Trigger Icons and Melody Sound					
Stop The Melody Sound Only					
Noise Abatement Circuit					
<b>O. ANTI CAR- JACKING</b>	.....				
8					
Active Anti Car Jacking					
Passive Anti Car Jacking					
Trigger The Anti Car Jacking Mode					
Override The System To Turn Off Anti Car Jacking					
<b>P. SYSTEM'S TRIGGER CHECK</b>	.....				
9					
<b>Q. SYSTEM'S STATUS CHECK</b>	.....				
9					
<b>R. DRIVER PAGING (OPTIONAL)</b>	.....				
9					
<b>S.           DOME                   LIGHT                   CONVENIENCE                   DELAY                   &amp;</b>					
<b>SUPERVISION</b>	.....9				

T. IGNITION CONTROL THE DOOR LOCK/UNLOCK. ....9  
 U. TRUNK RELEASE (CHANNEL 3) OUTPUT .....10  
 V. CHANNEL 4 TIMER CONTROL OUTPUT .....10  
 W. CHANNEL 5 TIMER CONTROL OUTPUT ..... 10  
 X. CHANNEL 6 TIMER CONTROL OUTPUT ..... 10  
 Y. POWER ON MEMONRY: ..... 10

**REMOTE START OPERATION:**

A. TO REMOTE START THE VEHICLE ..... 10  
 Safe Start (Child safety mode)  
 B. TO OPERATE THE VEHICLE WHILE RUNNING ON THE REMOTE START ..... 11  
 C. TEMPORARY STOP FEATURE ..... 11  
 D. TIMER / TEMPERATURE START ..... 11  
 3 Hours Timer Start With Temperature-Control Off  
 3 Hours Timer Start With Temperature-Control  
 Daily Timer Start  
 Exit the Timer Start  
 E. TEMPERATURE CHECK ..... 12  
 F. TO TURN OFF THE REMOTE START .....12  
 G. SHUT-DOWN INPUT FOR REMOTE STARTER ..... 12  
 H. DISABLING THE REMOTE START SYSTEM ..... 12

**LCD REMOTE TRANSMITTER:**

A. BATTERY REPLACEMENT ..... 13  
 B. THE REMOTE LCD ICONS WITH FUNCTION ..... 13  
 C. PROGRAMMING OF THE LCD REMOTE TRANSMITTER ..... 14  
 1. Screen Lamp ON  
 2. Power Save Mode  
 3. Clear The Flash Icon and Melody Sound  
 4. Stop The Melody Sound.  
 5. Button Lock  
 6. Vibration / Melody Mode  
 7. Enable / Disable Bi Sound While Pressing Button:  
 8. Low Battery Indication.  
 9. Set Up Fixed Count Down Timer  
 10. Out Of The Range Check  
 D. TIMER SETTING ..... 15  
 1. Timer Setting.  
 2. Alert Alarm Timer Setting  
 3. Count Down Timer Setting  
 4. Time Set-Up For "Daily Timer Start"

**WARNINGS:**





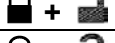
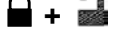








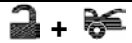
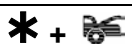
As with any product that performs automatic functions, there are certain safety precautions that you must practice and be aware of.

1. Keep the transmitter out of children’s reach.
2. Do not leave anyone in the vehicle while running on remote control.
3. Alert servicing personnel that the vehicle can be started automatically.
4. Do not start the vehicle by remote while it’s in an enclosed area or garage.
5. Always apply the parking brake and lock the vehicle as you exit the vehicle.
6. The vehicle windows must be rolled up.

7. Should the unit malfunction, disconnect the fuse until the problem is corrected.
8. The use and operations of this system is the sole responsibility of the operator.
9. Some areas may have local ordinances that prohibit leaving a vehicle running on public streets.
10. Do not start the vehicle by remote while the standard transmission vehicle is parked at a steep place.

**OPERATION:**

**A. REMOTE TRANSMITTER OPERATION:**

Transmitter Button	System Function	Remark
	Lock Doors & Arm System	
	Panic function	Press and Hold for 3 seconds.
	Car Locator	Under armed mode
	Arm and Delete The 2 Stage Shock Sensor.	Press twice within 3 seconds
	Silent Arming / Disarming	Ignition in "off" position.
	Active Anti Car-Jacking Mode	Ignition in "on" position press and hold for 2 seconds
	Unlock Doors & Disarm System	
	Two Steps Door Unlock & Disarm System	Press twice within 3 seconds.
	Trunk Release (Channel 3)	Press and Hold for 2 seconds
	Passive Arming By-pass	While the system Disarmed.
	Button Lock	Press within 3 seconds and Hold  button for 2 seconds
	Activate or Turn Off The Remote Start	Press twice within 3 seconds.
	Channel # 4 Timer Output (4)	
	Channel # 5 Timer Output (5)	
	Channel # 6 Timer Output (6)	

**LCD DISPLAY TRANSMITTER OPERATION ONLY:**

Transmitter Button	System Function	Remark
SET -  (C)	System's Trigger Record Check	Press within 3 seconds
SET - SET -  (C)	System's Status Check	Press within 3 seconds
SET -  ()	Button Lock	Press within 3 seconds and Hold  button for 2 seconds
SET -  ()	Optional Driving Pager	Press within 3 seconds
SET -  ()	Monitor Indoor Temperature	Press within 3 seconds
SET - * ()	Daily Timer Start	Press within 3 seconds
SET	LCD screen lamp turns on for 5 seconds.	Press and hold for 1 second
SET - SET- SET	Clear the Flash Icon and Melody Sound on the LCD Screen Transmitter	Press within 3 seconds

**Warning :**

Press the \* button two times when the battery compartment is empty, then insert the new battery.

**B. BUTTON LOCK:**

It is useful if you want to disable the transmission function of the remote control temporarily to prevent from any inadvertent pressing of buttons by others.

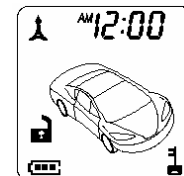
1. The regular remote control transmitter:

Press the button first, within 3 seconds press and hold the () button for 2 seconds to activate or cancel the button lock function. The "Red LED" will pause flash for few seconds to indicate the remote control transmitter is on "Button Lock" mode while press the transmitter button.

2. The 2-way remote control transmitter:

Press the SET button first, within 3 seconds press and hold the () button for 2 seconds to activate or cancel the button lock function.

The icon will displayed on the LCD screen to show the LCD remote transmitter is on "Button Lock".



**C. LED display:**

LED	Function
Off	Disarmed
Slow Flash	Armed
Flash	Passive Starter Disable
Fast Flash	Passive Arming
On (Solid)	Valet Mode

LED	Function
	Zone 1 / Warn-Away Trigger
2 flashes... pause	Zone 2 / Trigger on Trunk/Hood
3 flashes... pause	Zone 3 / Trigger on Door Switch
4 flashes... pause	Zone 4 / Trigger on Shock Sensor
5 flashes... pause	Zone 5 / Trigger on Ignition Switch

**D. CHIRP INDICATORS:**

Chirp	Function
1 chirp	Arm
2 chirps	Disarm
3 chirps	Defective Reminder
4 chirps	Disarm / Triggered
6 chirps	Car Locator

**E. PARKING LIGHT:**


Parking light	Function
1 flash	Arm
2 flashes	Disarm
3 flashes	Disarm / Triggered
12 flashes	Car Locator
Constant On	Under Remote Start

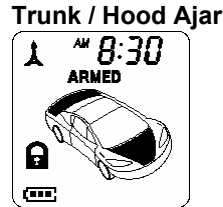
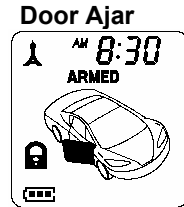
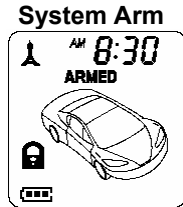
**F. ALARM OPERATING CONDITION:**

	Siren / Horn	Parking Light	LED	Doors	Starter	Dome Light
1. Arming	1 or 3 Chirps	1 Flash	Slow Flash	Locking	Disable	
2. Disarming	2 or 4 Chirps	2 or 3 Flashes		Unlocking		Turns on for 30 -second
3. Trigger	Alarming	Flashes	Slow Flash		Disable	Flashes

4. Passive Starter Disable			Fast Flash		Disable	
5. Panic	Alarming	Flashes				Flashes
6. Car-Jacking	Alarming	Flashes			Disable	Flashes
7. Car Locator	6 Chirps	12 Flashes		Locking		



**G. ACTIVE ARMING – LOCK & ARM:**


1. Press  button on the transmitter.
2. The siren will chirp once and parking light will flash once indicating that the system is now armed. The vehicle door will lock upon arming when interfaced with the security system.



**Clear The Flash Icon:**  
 Press the **SET** button 3 times within 3 seconds will clear the flash icon on the LCD screen transmitter.

**DEFECTIVE SENSOR REMINDER:** If the siren sounds 3 chirps, then you have left a door, trunk, or hood lid ajar. (See Alarm Feature “I - 4 Programming)

**SILENT ARMING / DISARMING:** Press the transmitter  and  button at the same time will arm or disarm your security system, No chirp sound will be heard, arm / disarm confirmation will be through the vehicles parking lights only.




**SHOCK SENSOR BY-PASS:** Press the  button on the transmitter two times within 3 seconds will arm the security system and by-pass the shock sensor. The system will chirp one additional time to confirm the sensor bypass mode was activated. The sensor bypass feature is programmed to activate for one arming cycle only. The security system will return to normal operation during the next arming cycle.

**H. PASSIVE ARMING**


Active arming / disarming is controlling your security system via the remote transmitter. This security system is equipped with an optional Passive Arming feature, which allows the security system to arm 30 seconds after the last door is closed. Operation is as follows.

1. Turn the ignition to the “OFF” position and exit the vehicle.
2. After all entrances are closed, the security system LED will flash fast for 30 seconds. If you reopen any door / hood / trunk, the security system LED will stop flashing. It will begin flashing again once the vehicle all entrances are closed.
3. After 30-second timer has elapsed, the security system will automatically “ARM”. The siren will chirp [1] time and the parking lights will flash [1] time.

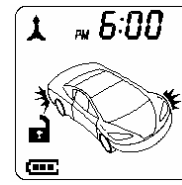
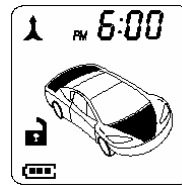
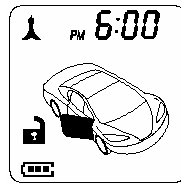
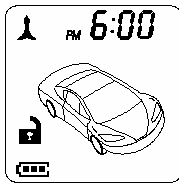
**PASSIVE ARMING WITH PASSIVE DOOR LOCKING** (See Alarm Feature “I - 2” Programming):  
 The vehicle doors will automatically lock after passive arming cycle has been completed.

**PASSIVE ARMING BY-PASS:** While the system disarmed, Press the  buttons twice, the security will respond with [1] chirp and LED will turn “ON”. The security system will remain in this temporarily state for as long as you wish. To exit passive by-pass, press the transmitter  or  button and the system will return to normal status.

**I. ACTIVE DISARMING – UNLOCK & DISARM:**

1. Press  button on the transmitter.
2. The siren will chirp twice and parking light flash twice to indicating that the security system is now disarmed. The vehicle’s door will unlock and dome light turns on for 30 seconds upon disarming when interfaced with the security system.

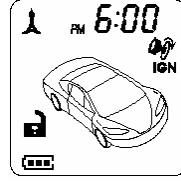
**System Disarm      Doors Trigger      Trunk/Hood Trigger      Warn away Trigger**



**Shock Sensor Trigger**



**Ignition Trigger**




**Clear The Flash Icon:**

Press the **SET** button 3 times within 3 seconds will clear the flash icon on the LCD screen transmitter.

**TAMPER DISARMING:** If alarm triggered, upon disarm the system, siren chirp 4 times, parking light flash 3 times.

**PATHWAY ILLUMINATION** (See Alarm Feature “II - 3” Programming): This feature turns the parking light “ON” for 30 seconds upon a unlock signal and for 10 seconds upon the lock signal.

**TWO STEPS DOOR UNLOCK** (See Alarm Feature “III - 2” Programming): This feature will independently unlock the driver’s door only when disarming the security system. Pushing the  button a second time within 3 seconds will unlock the other doors.

**AUTOMATIC RE-ARM** (See Alarm Feature “I - 3” Programming): If this feature is selected, the security system will automatically re-arm itself in 60 seconds after disarming with remote transmitter. Automatic rearm will cancel if any door is opened before the 60 seconds timer has elapsed.

**J. DISARMING WITHOUT A TRANSMITTER** ( Alarm Feature III - 1 Programming )

**OVERRIDES THE ALARM WITHOUT PASSWORD PIN CODE:** (Factory Default Setting)

The Override function may be used if the remote transmitter is lost or inoperative.

1. Enter the vehicle and turn the ignition switch to 'ON' position. (Alarm will sound.)
2. Within 10 seconds push and release the valet switch

The alarm will stop sounding and enter the disarm mode. You can now start and operate the vehicle normally.

**OVERRIDE THE ALARM WITH PASSWORD PIN CODE:** (Alarm Feature III - 1 Programming)

Unlike valet switch easily found, and defeated, this security system allows the consumer to program a password pin code. Offering a higher level of security.

1. Enter the vehicle and turn the ignition switch to 'ON' position. (Alarm will sound.)
2. Within 5 seconds, enter your chosen the first digit code by press and release the Valet Switch.  
(When finished above procedures, system's siren stop alarming, parking light stop flashing, but the vehicle can not be start and drive away.)
3. Within 15 seconds of the last digit code enter (the 1st code), turn the Ignition Switch “OFF” and then “ON”.
4. Within 15 seconds, enter your chosen of the second digit code by press and release the Valet Switch.
5. Turn the ignition switch “OFF” position.

[4] Chirps form siren/horn, [3] flash from parking light to indicate the system was disarmed.

Note 1: You must override the alarm within 60 seconds. If not, the system will automatically re-arm.

**EXAMPLE: To Override The System With The Password Code 83, you would;**

1. Enter the vehicle and turn the ignition switch to 'ON' position. (Alarm will sound.)
2. Within 5 seconds, Press and Release the Valet Switch 8 times  
(When finished above procedures, system's siren stops alarming, parking light stop flashing, other sensor stop trigger, but the vehicle can not be start and drive away.)
3. Within 15 seconds of the last digit code enter (the 1<sup>st</sup> code), turn the Ignition Switch “Off” and then “ON”.
4. Within 15 seconds, Press and Release the Valet Switch 3 times
5. Turn the Ignition Switch to “Off” position.

[4] Chirps form siren/horn, [3] flash from parking light to indicate the system was disarmed.

**K. VALET MODE: (System in Disarm or Valet mode)**

The valet switch allows you to temporarily bypass all alarm function, eliminating the need to hand your transmitter to parking attendants or garage mechanics. When the system is in valet mode, all alarm

function and remote start function are bypassed, however the remote panic feature and remote door locks will remain operational. To use the valet mode, the system must first be disarmed either by using you remote transmitter, or by operating the Manual override sequence.

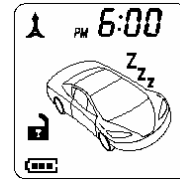
**Enter Valet Mode:**

1. From the disarmed condition, turn the ignition to "ON" position.
2. Push and hold valet switch for 2 seconds until the LED turns on. The LED will remain on as long as the system is in 'valet mode'.

**Remote Door Lock**



**Remote Door Unlock**



**Exit Valet Mode:**

1. Return to normal operation, turn ignition 'on'.
2. Push and hold valet switch for 2 seconds, The LED will turn off indicate the system are exiting the valet mode.

**L. CAR LOCATOR**

Under armed mode, press the button to active car locator function. The siren will chirp 6 times. The parking light will flash 12 times, for you to easily locate your car.

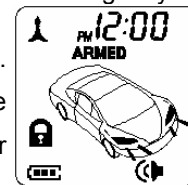


**M. PANIC FUNCTION: (See Alarm Feature I - 7 Programming.)**

The transmitter can be used as a remote panic switch to manually trigger the alarm in case emergency.

1. Press and hold the button for 3 second. The alarm will immediately sound.
2. During panic mode, the normal function of this transmitter button will be suspended.

The transmitter and buttons can be used to lock and unlock the door (if the option is installed), however once the button is pressed, the vehicle's starter disable device, (where installed) will be enable allowing the vehicle to start.



3. To stop the alarm, press and hold the transmitter or button on the transmitter again for 3 seconds. Also if any transmitter button other than or button is pressed and released, the panic mode will be turned off immediately.
4. If the button is not pressed, the alarm will automatically stop after 60 seconds.

**N. TRIGGER THE SYSTEM**

When armed, your vehicle is protected as follows:

1. Light impact will trigger the warn-away signal.
2. Heavy impacts / Doors open / Hood open / Trunk open / Turn on the ignition key will trigger the programmed sequence.

The starter disable relay (if installed) prevents the vehicle's starter from cranking. The siren, horn, parking lights, and dome light will turn on to alerting of an intrusion for 60 seconds. Then it will stop and automatic reset and re-arm. If the one of sensors or detectors still active, the alarm system will sound a maximum of 3 times of 60 seconds cycles.

**Doors Trigger**



**Trunk/Hood Trigger**



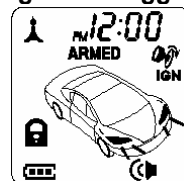
**Warn-away Trigger**



**Shock Sensor Trigger**



**Ignition Trigger**



**CLEAR THE FLASH ICON AND MELODY SOUND:** While triggering the alarm the LCD screen will alert user through melody sound and flashing trigger icon, press the **SET** button 3 times within 3 seconds will clear the flash icon and stop melody sound on the LCD screen transmitter.

**STOP THE MELODY SOUND ONLY:** While triggering the alarm the LCD screen will alert user through melody sound and flashing trigger icon, press any button on the LCD remote transmitter to stop melody sound only

**NOISE ABATEMENT CIRCUIT:** Your system has “Noise Abatement Circuit”. It prevents annoying repetitive trigger sequences due to faulty door pin switches or environmental condition such as thunder, jackhammers airport noise, etc.



Here’s how “Noise Abatement Circuit” works: The alarm triggers five times. Each time, the same sensor or switch is triggering the alarm. “Noise Abatement Circuit” will interpret this pattern of triggers as false alarm. After the fifth trigger, “Noise Abatement Circuit” ignores, or bypasses, that sensor or switch until the other sensor or switch is trigger.

“Noise Abatement Circuit” covers doors (Hood/Trunk) differently: If the alarm is triggered by an open door for three full cycles, the doors will be bypassed until the trigger ceases.

**O. ANTI CAR- JACKING**

**Warning:** If you don't need the car jacking function in this alarm system, be sure to set car jacking feature “OFF”. This system is default setting all car-jacking “OFF”. (See Alarm Feature I - 6 Programming.)

**ACTIVE ANTI CAR JACKING:**

1. Press and hold the transmitter  and  button at the same time for 2 seconds while the vehicle's ignition is ON. The parking lights will turns on for 1.5 seconds to indicate this enter.
2. Once the system is armed, If you are forced from the vehicle, the system will trigger when the door is opened and closed while the ignition is “ON”.

**PASSIVE ANTI CAR- JACKING:**

It operate as below:

1. Turn the ignition switch to “ON” position, the system will arm.
2. Once the system is armed, If you are forced from the vehicle, the system will trigger when the door is opened and closed while the ignition is “ON”.

**TRIGGER THE ANTI CAR -JACKING MODE:**

3-timer circuits will function as follows:

First timer:

- a. 50 seconds after the system has been triggered. The siren will start chirping for 15 seconds.
- b. During this 15 seconds period of chirping, you will be alerting to push the valet switch once to turn off the car-jacking feature.
- c. If not, it will enter second timer car jacking.

Second timer:

65 seconds after the system has been triggered. The siren starts alarming and the parking light starts flashing.

Third timer:


- a. 90 seconds after the system has been triggered
- a. The siren still alarming and the parking light flashing, and
- b. The starter disable will activate to prevent the vehicle from starting.
- c. It will remain active until the vehicle's battery power exhausted.

**OVERRIDE THE SYSTEM TO TURN OFF ANTI CAR- JACKING:**

Turn the ignition switch from OFF to ON, and within 10 seconds push valet switch, the siren will stop and the system disarmed


**Note:** If you use password pin code to double protect the vehicle security, you will need to use it to completely disarm the system.

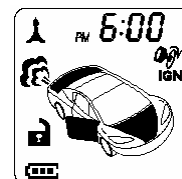
**P. SYSTEM’S TRIGGER CHECK**

Press the transmitter **SET** first, within 3 seconds press  (**C**) button. It responds with one melody sound and all trigger’s records will immediately displayed on the LCD screen.



**Q. SYSTEM’S STATUS CHECK**

When you want to check the system’s present status through the LCD screen, Press the transmitter **SET** button twice, within 3 seconds press  (**C**) button. It responds with one melody sound, the LCD screen should be illuminated.



**R. DRIVER PAGING**




It is useful the event that someone wants to page the driver of the parked vehicle.

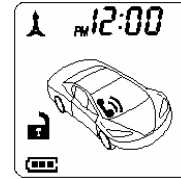
### Indoor Driving Paging

Under the ignition switch "off" condition, press and hold the valet switch for 2 seconds to page the driver, one chirp sound shall be emitted from the vehicle and the paging melody sound continues sounding from you Remote LCD Transmitter and "📶" indication flashes on the LCD screen.

### Outdoor Driving Paging

If someone tries to page you by tapping the paging (knock) sensor (optional) which is usually mounted on the bottom part of front window, the paging melody sound continues sounding from you Remote LCD Transmitter and "📶" indication flashes on the LCD screen.

1. Press the transmitter **SET** button first, within 3 seconds press  (📶) button to activate outdoor driver paging function, It responds with chirps of the vehicle, a melody sound and "📶" indication flashes on the LCD screen to confirm the function is on.
2. When tapping the paging (knock) sensor, one chirp sound shall be emitted from the vehicle and the paging melody sound continues sounding from you Remote LCD Transmitter and "📶" indication flashes on the LCD screen.
3. Turn on the ignition switch; OR press the  button to arm the system; OR press the  button to disarm the system, this outdoor driver paging function will exit.



### S. DOME LIGHT CONVENIENCE DELAY & SUPERVISION


The alarm with a unique feature which will turn on your vehicle dome light as following:

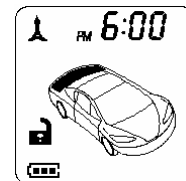
1. Upon disarming, the interior light will remain on for 30 seconds.
  2. If the vehicle is intruded, the interior light will flash for the same duration as the siren.
- Note: Turn on the ignition switch or arm the alarm will turn off the dome light.

### T. IGNITION CONTROL DOOR LOCK/UNLOCK. (See Alarm Feature II – 2 Programming).



If the vehicles door locks have been interfaced to the security system, the system will automatically lock the vehicle's doors when the ignition is turned "ON" and /or unlock the vehicle's doors when the ignition is turned "OFF".

### U. TRUNK RELEASE (CHANNEL 3) OUTPUT.



Press and hold  button on the transmitter for two seconds to remote control the trunk release or other electric devices.





### V. CHANNEL 4 TIMER CONTROL OUTPUT (See Alarm Feature III – 5 Programming.)

Press the transmitter  (4) and  (4) button at the same time to active Channel 4 function. Channel 4 is user-programmable timer output. You may program the built-in timer to send a ground signal for any time duration from 1 second to 120 seconds. For instance, this timer output may be used to turn on the headlight, power window or sunroof. (Factory defaults setting at momentary output.)

### W. CHANNEL 5 TIMER CONTROL OUTPUT (See Alarm Feature III – 6 Programming.)

Press the transmitter  (5) and  (5) buttons at the same time to active Channel 5 function. Channel 5 is user-programmable timer output. You may program the built-in timer to send a ground signal for any time duration from 1 second to 120 seconds. For instance, this timer output may be used to turn on the headlight, power window or sunroof. (Factory defaults setting at momentary output.)

### X. CHANNEL 6 TIMER CONTROL OUTPUT (See Alarm Feature III – 7 Programming.)

Press the transmitter  (6) and  (6) buttons at the same time to active Channel 6 function. Channel 6 is user-programmable timer output. You may program the built-in timer to send a ground signal for any time duration from 1 second to 120 seconds. For instance, this timer output may be used to turn on the headlight, power window or sunroof. (Factory defaults setting at momentary output.)

### Y. POWER ON MEMONRY:

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

## REMOTE START OPERATION:

### A. TO REMOTE START THE VEHICLE:

When you want to start your vehicle,


1. Press \* button twice on the transmitter.
2. The parking light will activate to indicate the remote start received the signal.
3. The engine will start approximately 5 seconds.
4. Once the engine is running, after couple seconds the parking light will turn on again and climate controls will activate and adjust the vehicles interior temperature to your preset setting. (While the vehicle is running, the "minutes" digit on the LCD screen will flash and the will indicate count down timer based on the 5, 10, 20 or 30 minute run time set up by your installation center.)
5. The vehicle will run for 5 to 30 minute cycle and automatically shut down. (When the unit shuts off the count down timer will turn off and the transmitter will play a melody.)

NOTE: The Remote Start Unit will not start the vehicle if any one of the following conditions exists:

1. The hood is opened.
2. The brake pedal is pressed.
3. Move the optional remote start enable toggle switch to OFF position. (If installed)
4. The gear selector is in any gear other then "PARK" or "NEUTRAL"

**SAFE START (Child safety mode)** (See Start Feature I – 5 Programming.)

Factory defaults setting to press the \* button twice on the transmitter to start the vehicle. Programming this feature to eliminate an accidental remote start, when kids enter this transmitter, it requires:

The user press the transmitter  and \* buttons at the same time to start the vehicle.

#### Activate Remote Start



#### Engine Running



### B. TO OPERATE THE VEHICLE WHILE RUNNING ON THE REMOTE START:

To operate the vehicle while engine running on the remote start.

1. Insert the ignition key and turn it to "ON" (not the start) position.
2. Press the brake pedal.

Note: If the brake pedal is pressed before the key is in the ON position, the engine will shut down.

### C. TEMPORARY STOP FEATURE:

This feature allows the vehicle to remain running after the key has been removed from the ignition. This feature is useful for occasions when you wish to exit and lock the vehicle for short periods of time, but would like to leave the motor running and the climate control on.

1. Before turning off the engine, press the \* button twice on the transmitter and the LED indicator will flash 3 times to confirm enter.
2. Turn the ignition key to OFF position. (The engine will stay running.)
3. The engine will run until the pre-programmed time elapsed or shutdown input is received.

### D. TIMER / TEMPERATURE START:

This unit can be programmed to start and run the engine every 3 hours or punctually at the same time next morning. The engine will run for the programmed running time and then shut down.

**IMPORTANT:** Timer Start should be used only in open areas, Never start and run the vehicle in on enclosed space as a garage or carport.

**3 hours timer start with Temperature-control OFF:** This feature is design for an extreme cold climate usage. The system will auto start the vehicle every 3 hours, to prevent engine freezing and hard to start. A MAXIMUM OF SIX CYCLES CAN OCCUR.






**3 hours timer start with Temperature-control:** (See Start Feature I – 8 Programming.)

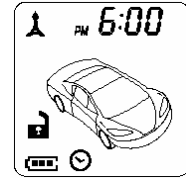
If you installed the optional Temperature Sensor and programmed the temperature ON to operate. The system can be programmed to automatically start the vehicle engine whenever the temperature inside the vehicle reaches or drops below the preprogrammed temperature level. The system will monitor the air temperature every 3 hour and will only start the engine during extreme cold temperatures. There are three temperature level to choose from.

**Daily Timer Start:** The feature is very useful for the driver who wants to run the vehicle punctually at the same time next morning. Before set-up of the "Daily Timer Start", you should set you time for engine start. ( see Timer Setting / Timer set-up for "Daily Timer Start, page 16)

**ENTER:**

1. Press the \* button twice to remote start the vehicle. As soon as the vehicle is running and the parking light have turned on or flashing.




2. Immediately depress the  button once, within 2 seconds
- 3-a. **3 Hours Timer Start:** Rapidly depresses the **\*** button. (or depresses  + **\*** buttons, if you program  + **\*** buttons = Start / Stop button.) The parking light will flash (3) times. The siren or horn chirps (3) times. The vehicle is now programmed to start every (3) hours.
- 3-b. **Daily Timer Start:** Depress the transmitter **SET** button first, within 3 seconds press **\***  button. The parking light will flash (6) times. The siren chirps (6) times. The vehicle is now programmed to start at the real time of the next day.  
Your set time for the next day engine start flashes for approx. 3 seconds on the LCD screen. After 3 seconds the  icon stays displayed on the LCD screen.



4. Press the brake pedal to stop the vehicle running.



**Exit the timer start:**

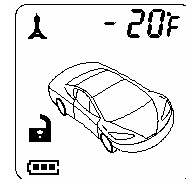
Timer start can be exited manually as follows:

1. Make sure the remote start system is not operating the engine.
  2. Turn the ignition on. The LED and parking light will flash (4) times. The horn chirps (4) times.
- Or
1. Press the **\*** button twice to remote start the vehicle. As soon as the vehicle is running and the parking light have turned on or flashing.
  2. Immediately depress the  button then press and hold the **\*** button for 2 seconds. (or depresses  + **\*** buttons, if you program  + **\*** buttons = Start / Stop button.) The parking light will flash (4) times. The siren or horn chirps (4) times. The vehicle is no longer programmed to start automatically.

**E. TEMPERATURE CHECK (OPTIONAL)**

If you installed the optional temperature sensor, you can monitor, Through the LCD screen, the present indoor temperature of the passenger compartment before cooling or heating your vehicle.

Press the transmitter **SET** buttons first, within 3 seconds press the   buttons, the in-door temperature will be shown on the LCD screen. This reading may be higher than actual ambient temperature due to the greenhouse and is relative only the inside vehicle temperature.



**F. TO TURN OFF THE REMOTE START:**

When the engine is running (by remote start), if you want to stop it,

1. Press **\*** button twice on the remote transmitter under remote start mode.
2. Move the optional remote start enable toggle switch to OFF position. (If installed)
3. Press the brake pedal  
The vehicle will shut down and turn off the parking light to indicate engine stopped.



**G. SHUT-DOWN INPUT FOR REMOTE STARTER:**

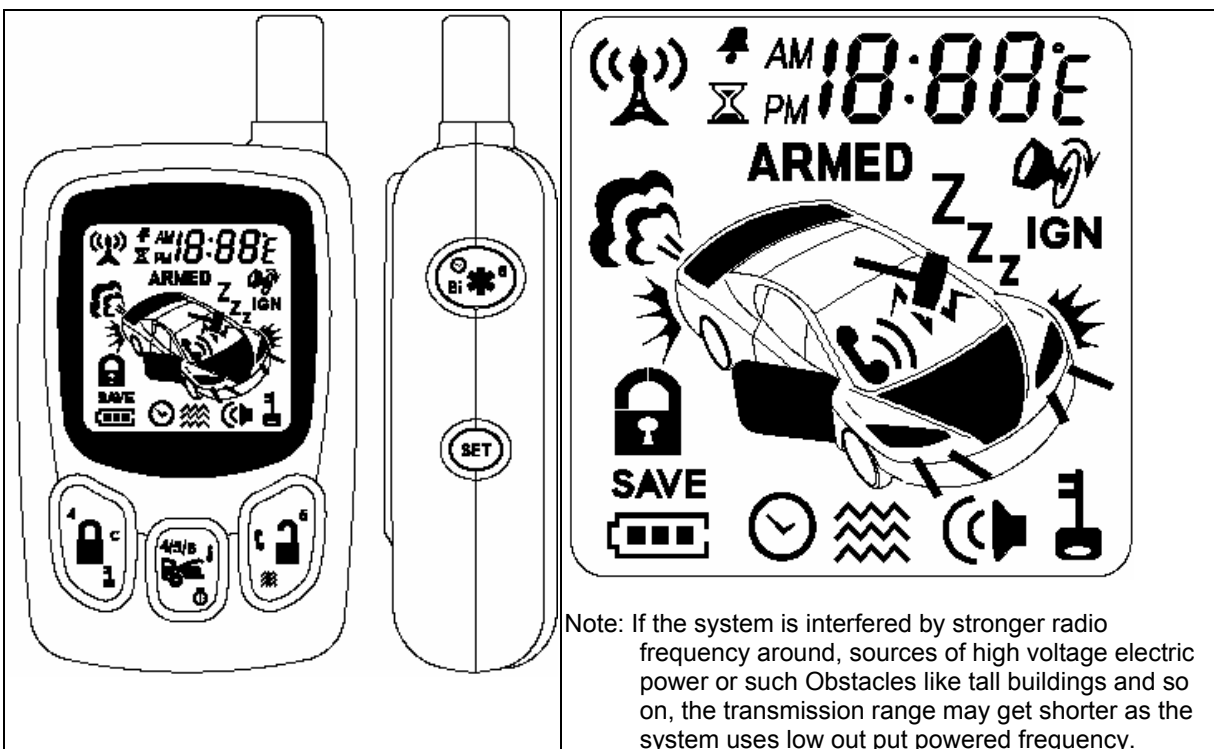
If any of the following conditions exist while the system is operating, the engine will not start or will shut down immediately:

1. The hood is opened.
2. The brake pedal is pressed.
3. Engine is over-revved. {"Tachometer checking type" only}
4. The pre-programmed run time (5 / 10 / 20 / 30 minutes) has elapsed.
5. Press **\*** button twice on the remote transmitter under remote start mode .
6. Move the optional remote start enable toggle switch to OFF position. (If installed)
7. The vehicle refused to start running after {3} unsuccessful attempts.


**H. DISABLING THE REMOTE START SYSTEM:** (If installed)

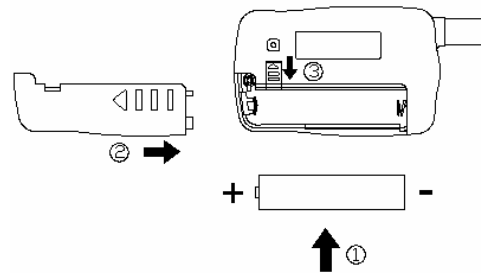
This feature allows your system's remote start unit to be temporarily disabled to prevent the vehicle from being remote started accidentally. This feature is useful if the vehicle is being serviced or stored in an enclosed area. To disable the remote start, move the optional remote start enable toggle switch to the OFF position.

**LCD REMOTE CONTROL TRANSMITTER:**
















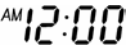
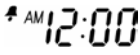






**A. BATTERY REPLACEMENT:**

A 1.5V type AAA Alkaline battery powers the Remote Transmitter. When the power of the battery weakens a  icon shall be displayed on the LCD screen. When the old battery is replaced to new one, there will be beep sounds indicate the power is up and the clock on the LCD screen returns to **AM12:00** after displaying all the icons.










Correct the time by pressing **SET** for 3 seconds before using (See Timer Setting).

**B. THE REMORE LCD ICONS WITH FUNCTION:**

- |   |   |   |  |
|---|---|---|--|
|    | <b>Door Lock</b><br>Your vehicle doors are locked   |    | <b>Door Unlock</b><br>Your vehicle doors are unlocked and the system is Disarmed |
| <b>ARMED</b>  | <b>Armed Mode</b><br>Your vehicle is in armed mode  |    | <b>Valet Mode</b><br>All the function shall be temporarily on hold.              |
|    | <b>Remote Transmission</b><br>You are transmitting the signal to control unit                       |    | <b>In – Range Indicator</b><br>Your are within the remote control range.         |
|    | <b>Door Open Warning</b><br>Doors are illegally opened (Zone 3)                                     |    | <b>Trunk/Hood Trigger</b><br>Trunk or Hood is illegally opened (Zone 2)          |
|    | <b>Shock Sensor Trigger</b><br>Trigger on Shock Sensor (Zone 4)                                     |    | <b>Warn Away trigger</b><br>Trigger on Shock Sensor (Zone 1)                     |
|    | <b>Engine Starting</b><br>Your vehicle engine starting by remote control                            |    | <b>Engine Running</b><br>Your vehicle's engine is running                        |
|   | <b>Timer Control Start</b><br>Engine start automatically at the same time next day or every 3-hour. |   | <b>Temperature Monitor</b><br>Indoor temperature of your vehicle                 |
|  | <b>Time Monitor</b>   |  | <b>Alert Alarm</b><br>You have set morning call alarm                            |
|  | <b>Count Down Timer</b><br>Reminder when time is up for parking                                     |  | <b>Power Save Mode</b><br>Save the battery power                                 |
|  | <b>Vibration Mode</b><br>Remote Control vibrates when the system is triggered                       |  | <b>Button Lock</b><br>Disable the transmission function temporarily              |
|  | <b>Driver paging</b><br>Someone is paging you in front of your vehicle                              |  | <b>Low Battery</b><br>You have to replace the battery of remote control.         |

**C. PROGRAMMING OF THE LCD REMOTE TRANSMITTER:**

Transmitter Button	Description	Operation
<b>SET</b> (1 second)	LCD screen lamp turns on for 5 seconds.	Press and hold for 1 second 1 melody sound to confirm enters.
<b>SET</b> (3 seconds)	Timer Programming Mode.	Press and hold for 3 seconds 2-melody sounds to confirm enter.
<b>SET</b> (5 seconds)	Power Save Mode	Press and hold for 5 seconds 1 melody sound to confirm enters.
<b>SET - SET- SET</b>	Clear the Flash Icon and Melody Sound on the LCD Screen Transmitter	Press within 3 seconds
<b>SET - </b> (2-second)	Button Lock (  ) enable / disable	Press within 3 seconds
<b>SET - </b> (2-second)	Melody / Vibration (  ) Mode	Press within 3 seconds
<b>SET - </b> (2-second)	Program Count Down Timer (  ) (10-Minute / 20M / 30 M /1Hour /1.5H / 2.0H)	Press within 3 seconds cycling *leave the buttons starting count down then  flashes

<b>SET - *</b> (2-second)	Enable / Disable Bi Sound <b>(Bi)</b> While Pressing Button	
---------------------------	---	--

- 1. Screen Lamp ON:** Press and hold the **SET** button one second, with one melody sound and the LCD screen lamp will turns on for 5 seconds
- 2. Power Save Mode:** While the power save mode, the LCD remote transmitter uses “0” current to save the battery power.

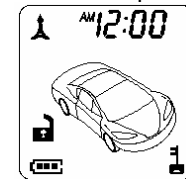
**Entry:** 1. Press & hold the **SET** button for 5 seconds, with one melody sound and **SAVE** icon on the LCD screen to indicate entry the “power save mode”.  
 2. Under the “Active Arming Mode” and Disarm mode. Turn the ignition switch to on, the LCD remote transmitter will automatically entry the “Power Save Mode”



**Exit:** Press any button of the LCD remote transmitter to exit the “Power Save Mode”.

- 3. Clear the Flash Icon and Melody Sound:** Press the **SET** button 3 times within 3 seconds will clear the flash icon and melody sound on the LCD screen transmitter
- 4. Stop The Trigger Melody Sound:** While triggering the alarm the LCD screen will alert user through melody sound and flashing trigger icon, press any button on the LCD remote transmitter to stop melody sound only.

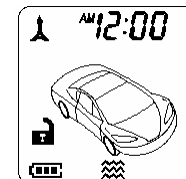
- 5. Button Lock:** It is useful if you want to disable the transmission function of the remote control temporarily to prevent from any inadvertent pressing of buttons by others. Press the **SET** button first, within 3 seconds press and hold the () button for 2 seconds to activate or cancel the button lock function, the icon will displayed on the LCD screen to show the LCD remote transmitter is on “Button Lock”.



**6. Vibration / Melody Mode:**

It is useful when you are in a noisy place and difficult to hear beep sound from the remote control as the remote control in this mode, vibrates itself if your security system is triggered.

Press the **SET** button first, within 3 seconds press and hold the () button for 2 seconds to select the mode of vibration or melody, the icon will displayed on the LCD screen to show the LCD remote transmitter is on vibration mode.



**7. Enable / Disable Bi Sound While Pressing Button:**

It has a short “bi” sound while pressing the button of the LCD screen transmitter

If you want mute the “bi” sound mute always while press button. Press the **SET** button first, within 3 seconds press and hold the **\* (Bi)** button for 2 seconds to disable the “bi” sound.

**8. Low Battery Indication:**

When the power of the battery weakens, it has two short “bi” sound and flash icon while pressing the button of the LCD screen transmitter.

**9. Set Up Fixed Count Down Timer:**

1. Press the **SET** button first, within 3 seconds press and hold the () button for 2 seconds, the LCD screen will shows icon and timer (ie. 0:10) ,

2. Press the () button again showing next order time on the screen ( ie.0:20), press them again (ie.0:30).....and so on.

3. Leave the buttons starting count down then icon flashes

**Note:** 1.The count down period is fixed as 10 minutes, 20 minutes, 30 minutes, 1 hour, 1.5 hours and 2 hours maximum.

2.When count down timer showing 0:00 means to turn off the timer.













3. Press **SET** button for real time indication when the timer is counting down.

**10. Out Of Range Indication:**

1. If within the range, the icon will display on the LCD screen.



2. If you are out of range, the icon will disappear on the LCD screen.

**D. TIMER SETTING:**






	Transmitter Button	Description	Press Transmitter Button
1	Press & Hold the <b>SET</b> button for 3 seconds	<b>Timer Setting</b> (Hour) *Flash digit for adjusting	* for – and  for +
	Press the <b>SET</b> button once	Time setting (Minute) *Flash digit for adjusting	* for – and  for +
2	Press the <b>SET</b> button once.	<b>Alert Alarm Time Setting</b> (Hour) *Flash digit for adjusting	* for – and  for +
	Press the <b>SET</b> button once	Alert Alarm Time Setting (Minute) *Flash digit for adjusting	* for – and  for +
	Press the <b>SET</b> button once	Alert Alarm Setting ON / OFF	* for <b>OFF</b> and  for <b>ON</b>
3	Press the <b>SET</b> button once	<b>Count Down Timer Setting</b> (Hour) *Flash digit for adjusting (Max.19 hours 59 minutes)	* for – and  for +
	Press the <b>SET</b> button once	Count down Timer Setting (Minute) *Flash digit for adjusting	* for – and  for +
	Press the <b>SET</b> button once	Count down Timer Setting ON / OFF	* for <b>OFF</b> and  for <b>ON</b>
4	Press & hold the  button for 2 seconds.	<b>Daily Timer Start Timer Setting</b> Flash  /  icon and “Hours” for adjusting	* for – and  for +

EXIT: Press and hold the **SET** button for 2 seconds or leave it for 10seconds, the system will exit the programming mode.





### 1. Timer Setting: Example to AM10:30



1. Press & hold the **SET** button for 3 seconds, with two-melody sound and the “Hours” digit flashes for adjusting.
2. Press the \* or  button to decrease or increase the “Hour” digit until AM10:xx
3. Press the **SET** button once again then the “Minute” digit flashes for adjusting.
- 4..Press the \* or  button to decrease or increase the “Minutes” digit until AM 10:30
5. Press the **SET** button for 2 seconds with one-melody sound to confirm exit the timer program mode.

### 2. Alert Alarm Timer Setting: Example to PM 6:30








1. Press & hold the **SET** button for 3 seconds, with two-melody sound and the “Hours” digit flashes for adjusting.
2. Press the **SET** button twice, the LCD screen will shows  icon and “Hours” digit is flashes for adjusting.
3. Press the \* or  button to decrease or increase the “Hour” digit until **PM 6:xx**
4. Press the **SET** button once again then the “Minutes” digit flashes for adjusting.
5. Press the \* or  button to decrease or increase the “Minutes” digit until **PM 6:30**
6. Press the **SET** button once again then  icon flashes for alert alarm “ON / OFF” setting
7. Press the  button to start the “Alert Alarm Timer”, and the “ON” icon will show on the LCD screen. Press the \* button to stop the “Alert Alarm Timer”, and the “OFF” icon will show on the LCD screen.
8. Press **SET** button for 2 seconds with one-melody sound to confirm exit the timer program mode.

### 3. Count Down Timer Setting: Example Set count down timer at 2:30

1. Press & hold the **SET** button for 3 seconds, with two-melody sound and the “Hours” digit flashes for adjusting.
2. Press the **SET** button 5 times, the LCD screen will shows  icon and “Hours” digit is flashes for adjusting.
- 3.Press the \* or  button to decrease or increase the “Hour” digit until **2:xx**
- 4.Press the **SET** button once again then the “Minutes” digit flashes for adjusting.
5. Press the \* or  button to decrease or increase the “Minute” digit until **2:30**
6. Press the **SET** button once again then  icon flashes for alert alarm “ON / OFF” setting

7. Press the  button to start the count down timer, and the “ON” icon will show on the LCD screen.  
Press the  button to stop the count down timer, and the “OFF” icon will show on the LCD screen.
8. Press the **SET** button for 2 seconds with one-melody sound to confirm exit the timer program mode.  
**Note:** Maximum is 19 hours.

#### 4. Time Set-Up For “Daily Timer Start”: Example to AM 6:30

1. Press & hold the **SET** button for 3 seconds, with two-melody sound and the “Hours” digit flashes for adjusting.
2. Press & hold the  button for 2 seconds, the LCD screen will flash  /  icon and “Hours” digit for Hour set-up.
3. Press the  or  button to decrease or increase the hour digit until **AM 6:00**
4. Press the **SET** button once again then the minute digit flashes.
5. Press the  or  button to decrease or increase the minutes digit until **AM 6:30**
6. Press the **SET** button for 2 seconds with one-melody sound to confirm exit the timer program mode.