



**Owner's Guide**  
**For Models:**  
**PE2LEDZ**  
**PE1M2ECDZ**

***APSR***  
***RF Upgrade Kit***

**IMPORTANT NOTE:** The operation of the Security and Convenience System as described in this manual is applicable to most vehicles. However, due to the configuration of some vehicles, some functions AND/OR SAFETY PRECAUTIONS may not apply. Please see your installing dealer for more information.


# Table of Contents

<b>Using Your Remote Control</b> .....	<b>3</b>
Locking the Vehicle Doors.....	3
Arming the Security System.....	3
Unlocking the Vehicle Doors.....	3
Disarming the Security System.....	3
Two Stage Door Unlock (optional).....	3
Activating Trunk Release (optional).....	3
Activating AUX Output (optional).....	3
Using the Personal Protection Alarm.....	4
User Selectable Notification Chirps.....	4
User Selectable LED.....	4
Programmed Transmitter Notification.....	4
Valet Mode.....	5
Manually Overriding the Security System.....	5
<b>Using Your Remote Vehicle Starter</b> .....	<b>6</b>
Remote Starting Your Vehicle.....	6
Remote Start Shutdown.....	6
Entering Your Vehicle while it is Running via Remote Start.....	6
Preheating or Precooling the Vehicle's Interior.....	6
Remote Start Safety Features.....	6
Remote Start Ready Mode.....	7
Enter & Exiting the Vehicle - Remote Start Ready Mode.....	7
Cancelling Remote Start Ready Mode.....	8
Using the "Quick-Stop" Feature.....	8
Turbo Timer Mode (optional).....	9
Operating the 2 / 4 Hour Start Up Timer Mode.....	9
<b>Status LED, Light Flashes and Siren/Horn Indications</b> .....	<b>10</b>
<b>Replacing Remote Control Batteries</b> .....	<b>12</b>
<b>Warranty Information</b> .....	<b>13</b>


## Using Your Remote Control

### Door Lock

To lock the vehicle doors press and release the  button.

NOTE: The system is equipped with a feature called Silent Choice. If enabled, the system requires a second press of the  button to activate an audible arming response from the vehicle.


### Arming the Security System (Optional)

To arm the system, exit the vehicle, close all doors, then press the  button. The parking lights will flash 1 time indicating the system is armed, has locked the doors (if equipped and connected) and activated the starter disable feature. The LED status indicator will blink steadily, once per second.


NOTE: This feature requires additional programming and installation. Contact your dealer for more information.

### Door Unlock

To unlock the vehicle doors press and release the  button.



NOTE: The system is equipped with a feature called Silent Choice. If enabled, the system requires a second press of the  button to activate an audible arming response from the vehicle.

### Disarming the Security System


To disarm the system press the  button. The parking lights will flash 1 time, indicating the system is disarmed and has unlocked the doors (if equipped and connected).

NOTE: This feature requires additional programming and installation. Contact your dealer for more information.

### Two Stage Door Unlock (Optional)

If this feature is enabled on your system, pressing the  button one time will unlock only the driver's door. Press  again within three seconds to unlock the remaining doors.

### Activating the Trunk Release Feature (Optional)







If this feature is enabled on your system, pressing and holding the  button for 3 seconds will open the vehicle's trunk or hatch.

\*Throughout this manual, 'press' refers to pressing for less than 1 second; 'press and hold' refers to pressing for more than 3 seconds.

### **Activating the AUX Ch. 4-7 Output (Optional)**

AUX channel output is an optional feature and programming is required at the time of installation. Please consult your dealer for more information.

### **Using the Personal Protection Alarm (Panic)**

Press and hold the  or  button for 3 seconds to activate the personal protection alarm. During panic mode, the normal function of the transmitter buttons will be suspended. The transmitter's  and  buttons can be used to lock and unlock the door (if the option is installed). To stop the alarm, press and hold the  or  button on the transmitter again for 3 seconds. The system will automatically stop after 30 seconds.

### **User Selectable Notification Chirps**

System ARM/DISARM chirps can be toggled ON or OFF without entering the programming feature banks.

1. Turn the ignition ON then OFF.
2. Press and release the valet/programming button 3 times. The system will respond with 1 chirp for ON or 2 chirps for OFF.

### **User Selectable LED**

This feature will control whether the LED is ON or OFF when the system is Armed/Locked and can be toggled ON or OFF without entering the programming feature banks.

1. Turn the ignition ON, OFF, ON, OFF.
2. Press and hold the valet/programming button for 5 seconds. The system LED will respond with 1 flash for ON or 2 flashes for OFF.

### **Programmed Transmitter Notification**

As a security precaution each time the vehicle's ignition is turned on the status LED light will flash the number of transmitters programmed into the system. This helps to identify unauthorized transmitters from accessing your vehicle. If you believe an unauthorized transmitter has been programmed to your system, contact your installing dealer for assistance.

### ***Valet Mode (Optional)***

When valet mode is activated the status LED will light solid, and all security and remote start functions will be disabled. To enter or exit valet mode simply follow the steps outlined below:

1. Turn the vehicle's ignition ON.
2. Push and hold the programming/valet button.
3. The LED will turn on solid when valet mode is active
4. Release the programming/valet button.

### ***Manually Overriding the Security System***


Your system can be disarmed without the use of the transmitter. This is necessary to operate your vehicle if the transmitter is lost or its battery fails. To by-pass the alarm system;

1. Open the vehicle door. The alarm will sound.
2. Turn the ignition key to the ON position.
3. Within 10 seconds, press and release the valet push button switch.

The alarm system will stop sounding and enter the (by-passed) mode. You can now start and operate the vehicle normally.

## Using Your Remote Starter

### Remote Starting Your Vehicle

To activate the remote start function, press and release the  button 2 times within 2 seconds. The system will sound, the parking lights will flash 1 time and the system will check the vehicle to ensure it is safe to start. If all safety parameters are correct, the vehicle will start. The vehicle's parking lights will turn on (or flash depending on system settings) as a visual indication that the vehicle has started and is running.

If your vehicle stalls or does not start, the system will pause 5 seconds, then try 3 more times to start the vehicle (a total of 4 attempts). The system will pause 5 seconds between each start attempt.

### Remote Start Shutdown

Press and release the  button 2 times to turn the vehicle off.

### Entering the Vehicle while it is Running via Remote Vehicle Start

1. Unlock the vehicle's doors.
2. Enter the vehicle. **DO NOT PRESS THE BRAKE PEDAL!**
3. Insert the key into the ignition switch and turn to the ON or RUN position.
4. Press the brake pedal. The remote vehicle starter will disengage and the vehicle will operate normally.

### Preheating or Precooling the Vehicle's interior

Before exiting the vehicle, set the temperature controls to the desired setting and operation. After the system starts the vehicle, the heater or air conditioner will activate and heat or cool the vehicle's interior to your setting.

### Remote Start Safety Features



For safety and security reasons, the system will shutdown or prevent the remote vehicle starter from activating if any of the following occur:

1. The vehicle's hood is open.
2. The brake pedal is pressed prior to turning the ignition key to the ON position.
3. The engine is over-revved (tach checking only).
4. Valet Mode is active. Refer to the Valet Mode section of this manual on page 5.
5. Remote Start Ready Mode is not set. Manual transmission vehicle's only.

**Remote Start Ready Mode must be enabled if your vehicle is equipped with a manual transmission.**


### **Remote Start Ready Mode - Manual Transmission Vehicles Only**

To activate the remote start function, the system must first be in Remote Start Ready Mode. Follow the steps below to enter remote start ready mode.

1. While the engine is running by the ignition key;
  - a. Place the transmission in neutral.
  - b. Set the parking brake
2. With your foot off the brake pedal, press and release the  button to activate the remote start. The remote will beep 4 times and the parking lights will turn on to confirm the system has remote started.
3. Remove the keys from the ignition, the vehicle will remain running.
4. Exit the vehicle and close all vehicle doors.
5. Within 1 minute of step 1, press the  button to lock the vehicle's doors. The vehicle will shutdown and sound 2 short chirps then 1 long chirp to confirm ready mode is set.

### **To Enter & Exit the Vehicle while (Manual Transmission) Remote Start Ready Mode is already active without cancelling Remote Start Ready Mode.**

If ready mode has already been activated and you need to enter the vehicle, possibly to retrieve an item, and will exit the vehicle without driving it, you can keep ready mode active by following the steps below.

1. With Ready Mode already previously set, activate the remote start.
2. While under control of the remote start open vehicle door to retrieve items.
3. Exit the vehicle and close all doors.
4. Press the  button, the unit waits 3 seconds and then shuts down, the system will verify all doors have been closed then will emit the 2 short/1 long tone and light flash pattern indicating Manual Transmission Ready Mode is active.

Note: If the 2 short/1 long tone is not heard then Ready Mode has not been set.

## **Canceling Remote Start Ready Mode - Manual Transmission Vehicles Only**



The system will exit remote start ready mode if any of the following occur:

- Open any door
- Open the hood or trunk (if connected)
- Press the brake
- Release the parking brake
- Turn the ignition ON




## **Using the “Quick-stop” Feature**

If you want to make a short stop and keep your vehicle running (to keep the interior warm or cool), the quick-stop feature allows you to do this while keeping your vehicle secure and your keys with you.

### **To engage Quick Stop:**

1. Stop the vehicle and place the transmission in PARK.
2. With your foot off the brake pedal, press and release the  button 2 times within 2 seconds. The LED will flash 3 times to confirm quick stop is entered.
3. Remove the keys from the ignition and exit the vehicle. Press the  button to lock the vehicle's doors if desired.

### **To engage Quick Stop - Manual Transmission Vehicles:**

1. With the vehicle running, foot off the brake, parking brake set ON.
2. Press and release the  button to activate remote start.
3. Exit the vehicle close all doors (Door Open/All Doors Close)
4. Press and release the  button.
5. Within 3 seconds press the  button:  
The unit enters Quick Stop Mode and will remain running until remote start time-out and then shut down. (Remote Start Ready Mode is NOT active)

**Note:** Do not leave children or animals unattended in the vehicle when using the quick-stop feature.



### **Turbo Timer (Optional)**

This option will keep the engine running to allow the vehicle's turbo to properly cool down before shutting the engine off.

#### **To engage the Turbo Timer feature:**

1. With the vehicle running via the ignition key and your foot off of the brake pedal.
2. Engage the vehicle's parking brake.
3. The vehicle's parking lights will turn on to verify the Turbo Timer feature has been activated.
4. Turn the ignition key OFF, the vehicle will continue to run until the pre-programmed time has elapsed (1, 3, or 5 minutes)

**To disengage the turbo timer feature, press the vehicle's brake pedal.**


### **Operating the 2 / 4 Hour Start Up Timer Mode**

The system has the ability to start the vehicle every 2 or 3 hours for a 48 hour period. This feature is especially useful in cold climates where the only means to keep the engine and engine fluids warm is to periodically start the engine. The default setting is 4 hours.

#### **WARNING!**

Be certain that the vehicle is outdoors before using this or any remote starting device. A running engine produces dangerous carbon monoxide fumes which can be harmful or fatal if prolonged exposure occurs. DO NOT remote start the vehicle if it is garaged.

#### **To begin the 2 / 4 hour start up timer mode:**

1. Turn the vehicle's ignition ON then OFF.
2. Press the  button 4 times, the system will;
  - a. When set for 2 Hour (default) - chirp 2 times and flash the parking lights 2 times.
  - b. When set for 4 Hour - chirp 4 time and flash the parking lights 4 times.

#### **To exit the 2 / 4 hour start up timer mode:**

1. Turn the vehicle's Ignition ON.

**OR**

2. Press the vehicle's brake pedal while the engine is running.

## Status LED, Light Flashes, and Siren/Horn Indications

### Status LED Flash Indications

<b>LED Flashes</b>	<b>Function</b>
OFF	Unlocked / Disarmed
Slow Flash	Locked / Armed
ON (Solid)	Valet Mode
1 Flash / Disarmed	Zone 1 Trigger, Shock Sensor
2 Flashes / Disarmed	Zone 2 Trigger, Trunk / Hood
3 Flashes / Disarmed	Zone 3 Trigger, Door

### Siren/Horn Chirp Indications

<b>Chirps</b>	<b>Function</b>
1	Lock / Arm
2	Unlock / Disarm
3	Door Ajar Upon Locking /Arming
4	Disarm / Triggered

### Parking Light Flash Indications

<b>Flashes</b>	<b>Function</b>
1	Lock / Arm
2	Unlock / Disarm
3	Disarm / Triggered
ON (Solid or Slow Flash)	Remote Started

### Remote Start Shutdown Diagnostics

<b>Parking Light Flashes</b>	<b>Shutdown Zone</b>
1 Flash	Runtime Expired
2 Flashes	Remote Shutdown
3 Flashes	Brake ON
4 Flashes	Manual Transmission Ready Mode
5 Flashes	Hood Open
6 Flashes	Low Tach Signal
7 Flashes	Tach / Crank Average not learned
8 Flashes	High Tach Signal

## 2 Way Remote Control Notifications

<b>FUNCTION</b>	<b>BEEPS / LED FLASHES</b>
Lock	1 Beep / Flash
Unlock	2 Beeps / Flashes
Trunk Release	2 Beeps / Flashes
Remote Start Activation	RS Activation Melody
Confirm Remote Start	4 Beeps / Flashes
Remote Start Running	1 Flash per 5 seconds for duration run time
Remote Start Shutdown	RS Shutdown Melody
Car Find / Panic	2 Beeps / All LEDs Flash per 3 seconds - Repeats 9 times

## **Replacing Remote Control Batteries**

### **5 Button Remote Control - Model 185SP**

The CR2032 battery inside each remote control should last approximately 1 year under normal use. When the batteries become weak you will notice the remote control range (the distance from the vehicle the remote control will work) deteriorate and the small LED on the remote control will dim. To replace the remote control batteries:

1. Using a coin, disassemble the halves of the remote control.
2. Remove the old battery, observing the +/- symbols on the batteries and replace with a new battery.
3. Reassemble the halves of the remote control
4. Test operation of the remote control.

### **5 Button Remote Control - Model 185TWSP / 18TWLOR**

The CR2450 battery inside each remote control should last approximately 1 year under normal use. When the batteries become weak you will notice the remote control range (the distance from the vehicle the remote control will work) deteriorate and the small LED on the remote control will dim. To replace the remote control batteries:

1. Using a coin, disassemble the halves of the remote control.
2. Remove the old battery, observing the +/- symbols on the batteries and replace with a new battery.
3. Reassemble the halves of the remote control
4. Test operation of the remote control.



## **LIMITED LIFETIME WARRANTY**

**Applies to Prestige Series Control Modules, Sirens, Sensors, and Relays.**

Voxx Electronics Corporation (the Company) warrants to the original purchaser of this product that should this product or any part thereof, (other than transmitters) under normal use and conditions, be proven defective in material or workmanship during the lifetime of the vehicle, in which it was originally installed from the date of original purchase such defect(s) will be repaired or replaced with new or reconditioned product, (at the Company's option) without charge for parts or repair labor. A transmitter is warranted for 12 months from the date of original purchase.

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to an approved warranty station. This Warranty is not transferable.

This Warranty does not cover damage to the vehicle's electrical system or costs incurred for removal or reinstallation of the product. This Warranty does not cover batteries, broken LCD or OLED display screens, nor apply to any product or part thereof which, in the opinion of the Company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, abuse, neglect, accident, or by removal or defacement of the factory serial number/bar code label(s).

This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

The company does not warrant that this product cannot be compromised or circumvented. THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT WITHOUT COST OF INSTALLATION.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Voxx Electronics Corporation.  
Customer Service 1-800-225-6074  
WWW.VOXXELECTRONICS.COM

**FCC COMPLIANCE**

This device complies with Part 15 of the FCC rules and with RSS-210 of Industry Canada. 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 any interference that may cause undesired operation.

**Warning!**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

PATENTED: [www.voxxintl.com/company/patents](http://www.voxxintl.com/company/patents)