



Owner's Guide

For Models:

PE2LEDZ

PE1M2ECDZ

APSRs


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.


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 turn on the status LED light with 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.

Cancelling 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

LED Flashes	Function
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

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

Parking Light Flash Indications

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

Remote Start Shutdown Diagnostics

Parking Light Flashes	Shutdown Zone
1 Flash	Runtime Expiried
2 Flashes	Remote Shutdown
3 Flashes	Brake ON
4 Flashes	Manual Tramission 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

FUNCTION	BEEPS / LED FLASHES
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.



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Using Your Remote Control


Arming the Security System

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: 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: 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 disarming response from the vehicle. If your system is set up for 2 step unlock, a third press of unlock will activate the audible response.

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.

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.

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


Bypassing The Shock Sensor

The included security shock sensor has two stages of detection, Warn-Away and Full Trigger. To arm the system and shock sensor press the  button. The system will beep and the lights will flash 1 time.

To Arm the system and bypass the Warn-Away detection stage press the  button 2 times within 5 seconds.

To Arm the Alarm the bypass both detection stages press the  button 3 times within 5 seconds.

City Mode

City Mode allows the user to change the sound of the alarm system to make it easily identified when the alarm is triggered. To enter City Mode press the  button 4 times within 10 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

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.

Stand Alone Valet Override (Optional)

Your system can be disarmed without the use of the transmitter or valet button. This is necessary, since you will need the ability 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. Cycle the ignition key ON, OFF, ON.
3. Within 10 seconds, press and release the Brake pedal 3 times.

The alarm system will stop sounding and enter the (by-passed) mode. You can now start and operate the vehicle normally. This feature must be programmed ON by an authorized dealer.

Custom Code Valet Override (Optional)

Unlike the default Valet Override, Custom Code Override is a user personalized code that offers a higher level of security. If the user chooses to use Custom Code Override, Feature Bank 2 ; Feature 9 must be programmed for "Custom Code". Once the option has been selected the code must be programmed. Once the Custom Code is programmed it cannot be changed without first disarming the alarm.

Custom Code Override Procedure

The Custom Code is made up of 2 numbers. Each chosen number must be between digits 1-9. The default Custom Code is "11". To disarm the alarm using the Custom Code option:

1. Turn the vehicle ignition to ON.
2. Within 5sec, Press the valet button 1x.
3. Within 5sec, Turn the ignition OFF/ON.
4. Within 5sec, Press the valet button 1x.
5. Turn the vehicle ignition to OFF then ON to start the vehicle.

Custom Code Programming Procedure

In this example, the user has selected Custom Code "23". To program a user selected custom code:

Start with the alarm disarmed.

1. Turn the ignition to the ON position
2. Within 10sec, press the valet button 3x to enter programming.
3. Within 10sec, Cycle the ignition OFF/ON, OFF/ON, OFF/ON. The system will beep 1x.
4. Within 10sec, Press the valet button 2x. This number will indicate the first digit of the chosen Custom Code.
5. Within 10sec, Cycle the ignition OFF/ON.
6. Within 10sec, Press the valet button 3x. This number will indicate the second digit of the chosen Custom Code.
7. Cycle the ignition OFF.

If the Custom Code was accepted the LED will flash the first number (2), pause, then the second number (3). This will repeat 2 more times to confirm the Custom Code entry. If after 15sec the LED does not flash please repeat steps 1-7.

Status LED, Light Flashes, and Siren/Horn Indications

Status LED Flash Indications

LED Flashes	Function
OFF	Disarmed
Slow Flash	Armed
Fast Flash	Passive Arming Countdown
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

Chirps	Function
1	Arm
2	Disarm
3	Door Ajar Upon Arming
4	Disarm / Triggered

Parking Light Flash Indications

Flashes	Function
1	Arm
2	Disarm
3	Disarm / Triggered

2 Way Remote Control Notifications

FUNCTION	BEEPS / LED FLASHES
Lock	1 Beep / Flash
Unlock	2 Beeps / Flashes
Trunk Release	2 Beeps / Flashes
Alarm Trigger Event	2 Beeps / All LEDs Flash per 3 seconds - Repeats 9 times
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.
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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: 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 disarming response from the vehicle. If your system is set up for 2 step unlock, a third press of unlock will activate the audible response.

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.







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Bypassing The Shock Sensor

The included security shock sensor has two stages of detection, Warn-Away and Full Trigger. To arm the system and shock sensor press the  button. The system will beep and the lights will flash 1 time.

To Arm the system and bypass the Warn-Away detection stage press the  button 2 times within 5 seconds.

To Arm the Alarm the bypass both detection stages press the  button 3 times within 5 seconds.

City Mode

City Mode allows the user to change the sound of the alarm system to make it easily identified when the alarm is triggered. To enter City Mode press the  button 4 times within 10 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

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.

Stand Alone Valet Override (Optional)

Your system can be disarmed without the use of the transmitter or valet button. This is necessary, since you will need the ability 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. Cycle the ignition key ON, OFF, ON.
3. Within 10 seconds, press and release the Brake pedal 3 times.

The alarm system will stop sounding and enter the (by-passed) mode. You can now start and operate the vehicle normally. This feature must be programmed ON by an authorized dealer.

Custom Code Valet Override (Optional)

Unlike the default Valet Override, Custom Code Override is a user personalized code that offers a higher level of security. If the user chooses to use Custom Code Override, Feature Bank 2 ; Feature 9 must be programmed for "Custom Code". Once the option has been selected the code must be programmed. Once the Custom Code is programmed it cannot be changed without first disarming the alarm.

Custom Code Override Procedure

The Custom Code is made up of 2 numbers. Each chosen number must be between digits 1-9. The default Custom Code is "11". To disarm the alarm using the Custom Code option:

1. Turn the vehicle ignition to ON.
2. Within 5sec, Press the valet button 1x.
3. Within 5sec, Turn the ignition OFF/ON.
4. Within 5sec, Press the valet button 1x.
5. Turn the vehicle ignition to OFF then ON to start the vehicle.

Custom Code Programming Procedure

In this example, the user has selected Custom Code "23". To program a user selected custom code:


Start with the alarm disarmed.

1. Turn the ignition to the ON position
2. Within 10sec, press the valet button 3x to enter programming.
3. Within 10sec, Cycle the ignition OFF/ON, OFF/ON, OFF/ON. The system will beep 1x.
4. Within 10sec, Press the valet button 2x. This number will indicate the first digit of the chosen Custom Code.
5. Within 10sec, Cycle the ignition OFF/ON.
6. Within 10sec, Press the valet button 3x. This number will indicate the second digit of the chosen Custom Code.
7. Cycle the ignition OFF.

If the Custom Code was accepted the LED will flash the first number (2), pause, then the second number (3). This will repeat 2 more times to confirm the Custom Code entry. If after 15sec the LED does not flash please repeat steps 1-7.

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.

Cancelling 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

LED Flashes	Function
OFF	Disarmed
Slow Flash	Armed
Fast Flash	Passive Arming Countdown
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

Chirps	Function
1	Arm
2	Disarm
3	Door Ajar Upon Arming
4	Disarm / Triggered

Parking Light Flash Indications

Flashes	Function
1	Arm
2	Disarm
3	Disarm / Triggered
ON (Solid or Slow Flash)	Remote Started

Remote Start Shutdown Diagnostics

Parking Light Flashes	Shutdown Zone
1 Flash	Runtime Expiried
2 Flashes	Remote Shutdown
3 Flashes	Brake ON
4 Flashes	Manual Tramission 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

FUNCTION	BEEPS / LED FLASHES
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
Alarm Trigger Event	2 Beeps / All LEDs Flash per 3 seconds - Repeats 9 times
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.



Owner's Guide

For Models:

PE2LEDZ

PE1M2LEDZ

Flashlogic FLRSBA

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.

Using Your Remote Control



Door Lock

To lock the vehicle doors press and release the  button.



Door Unlock

To unlock the vehicle doors press and release the  button.



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.



Using the Personal Protection Alarm (Panic) (Optional)

If this feature is enabled on your system, press and hold the  button for 3 seconds to activate the personal protection alarm. To stop the alarm, press and hold the  button on the transmitter again for 3 seconds.

Remote Starting Your Vehicle

To activate the remote vehicle start function, press and release the / button 2 times within 2 seconds. The vehicle will start and run the predetermined time set up during installation (5 to 60 minutes selectable).

Remote Start Shutdown

Press and release the / button 2 times within 2 seconds to turn the vehicle off. Pressing the vehicle's brake will also shutdown the remote start.

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.

NOTE: This feature may not be available on all vehicle makes/models. In some vehicle applications the the remote start will shut down upon entering the vehicle and the engine will stop running. For these applications it will be necessary to restart the vehicle normally. Refer to installing dealer for details.

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 Valet Mode

1. Cycle the vehicle ignition ON.
2. Press and release the Valet button 3x.
2. Press 1 button of each transmitter you wish to program, the LED's will flash to confirm each transmitter.
3. Turn the vehicle ignition OFF.

NOTE: This system has 1 button programming which programs all channels of the system.

NOTE: The system will hold up to 4 transmitters in memory, programming a 5th transmitter will erase the oldest transmitter in memory.

2 Way Remote Control Notifications

FUNCTION	BEEPS / LED FLASHES
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

Remote Control Programming

1. Cycle ignition ON five times [5x OFF/ON] rapidly. (complete this step within 7 seconds).
2. Press 1 button of each transmitter you wish to program, the LED's will flash to confirm each transmitter.
3. Turn the ignition OFF.

NOTE: This system has 1 button programming which programs all channels of the system.

NOTE: The system will hold up to 4 transmitters in memory, programming a 5th transmitter will erase the oldest transmitter in memory.

Replacing Remote Control Batteries

5 Button Remote Control - Model 185SP (PE2LEDZ Only)

The CR2032 battery inside each remote control should last approximately 1 year under normal use. When the battery becomes 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.

2 Way LED Remote Control - Model 185TWSP (PE2LEDZ Only)

The CR2450 battery inside the 2-way LED remote control should last approximately 6 months under normal use. When the battery becomes weak you will notice the remote control range (the distance from the vehicle the remote control will work) deteriorate and give an additional flash upon button presses. 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.

2 Way LED Remote Control - Model 18TWLOR (PE1M2LEDZ Only)

The CR2450 battery inside the 2-way LED remote control should last approximately 6 months under normal use. When the battery becomes weak you will notice the remote control range (the distance from the vehicle the remote control will work) deteriorate and give an additional flash upon button presses. 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.



Owner's Guide

For Models:

PE2LEDZ

PE1M2LEDZ

Flashlogic FLRS

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.

Using Your Remote Control



Door Lock

To lock the vehicle doors press and release the  button.



Door Unlock

To unlock the vehicle doors press and release the  button.



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.



Using the Personal Protection Alarm (Panic) (Optional)

If this feature is enabled on your system, press and hold the  button for 3 seconds to activate the personal protection alarm. To stop the alarm, press and hold the  button on the transmitter again for 3 seconds.

Remote Starting Your Vehicle

To activate the remote vehicle start function, press and release the / button 2 times within 2 seconds. The vehicle will start and run the predetermined time set up during installation (5 to 60 minutes selectable).

Remote Start Shutdown

Press and release the / button 2 times within 2 seconds to turn the vehicle off. Pressing the vehicle's brake will also shutdown the remote start.

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.

NOTE: This feature may not be available on all vehicle makes/models. In some vehicle applications the the remote start will shut down upon entering the vehicle and the engine will stop running. For these applications it will be necessary to restart the vehicle normally. Refer to installing dealer for details.

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 Valet Mode

Enter / Exit Valet mode for systems using an Flashlogic FLRS kit.

1. Cycle ignition ON five times [5x OFF/ON] rapidly. (complete this step within 7 seconds)
2. Wait, LED 1 (on the FLRS kit) will turn solid RED for 2 seconds.
3. Turn ignition to OFF position.
4. Valet Mode Programming Procedure completed.

NOTE: In Valet Mode, the Remote starter is not functional. On units with Keyless Entry, Lock and Unlock will remain functional. To exit valet mode: repeat steps 1 to 4.

2 Way Remote Control Notifications

FUNCTION	BEEPS / LED FLASHES
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

Remote Control Programming

1. Cycle ignition ON five times [5x OFF/ON] rapidly. (complete this step within 7 seconds).
2. Press 1 button of each transmitter you wish to program, the LED's will flash to confirm each transmitter.
3. Turn the ignition OFF.

NOTE: This system has 1 button programming which programs all channels of the system.

NOTE: The system will hold up to 4 transmitters in memory, programming a 5th transmitter will erase the oldest transmitter in memory.

Replacing Remote Control Batteries

5 Button Remote Control - Model 185SP (PE2LEDZ Only)

The CR2032 battery inside each remote control should last approximately 1 year under normal use. When the battery becomes 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.

2 Way LED Remote Control - Model 185TWSP (PE2LEDZ Only)

The CR2450 battery inside the 2-way LED remote control should last approximately 6 months under normal use. When the battery becomes weak you will notice the remote control range (the distance from the vehicle the remote control will work) deteriorate and give an additional flash upon button presses. 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.

2 Way LED Remote Control - Model 18TWLOR (PE1M2LEDZ Only)

The CR2450 battery inside the 2-way LED remote control should last approximately 6 months under normal use. When the battery becomes weak you will notice the remote control range (the distance from the vehicle the remote control will work) deteriorate and give an additional flash upon button presses. 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.