

OWNER'S GUIDE

**Covers All 45xx Series Advanced
2-Way Remote Starter/Alarms**

REMOTE STARTERS

CAR ALARMS



**ULTRA
START**

www.ultrastarters.com

Note: Some features may not be available on certain models.

Warning!!

CARBON MONOXIDE MAY CAUSE SERIOUS INJURY, EVEN DEATH!

It is the sole responsibility of the user to place the system in Service Mode when parking in an enclosed area *ex: garage*, partially enclosed area *ex: carport*, or when the vehicle is being serviced.

Table Of Contents

Table Of Contents	Page 2
Welcome	Page 3
About Ultra Start	
Feature List	
Safety	Page 4
Remote Transmitters & Antenna	Page 5
Remote Starter Functions	Page 6
Remote Starting	
Extended Runtime	
Remote Stop	
Idle Mode	
Turbo Timer Mode	
Reservation Mode (Manual Transmissions Vehicles only)	Page 7
Optional Features	Page 8-9
Lock Doors	Trunk Release
Constant Lock	Car Finder
Unlock Doors	Panic
Silent Lock and Unlock	
Cold Start/ Temperature Start Mode	Page 10
Remote Transmitter Learn	Page 11
Service Mode	Page 12
Activating & Deactivating Service Mode	
LCD Display	Page 13-17
Shock Sensor	Page 18
Shock Sensor Programming/Adjusting	
Temporary Shock Sensor Bypass	
Diagnostics	Page 19
Important Security Notes	
Battery Replacement	
Product Warranty	Page 20
FCC Notice	

Welcome

Congratulations on your purchase of an Ultra Start remote vehicle starter. Ultra Start remote vehicle starters will provide years of comfort and convenience. To utilize and understand this system to the fullest, PLEASE READ THIS MANUAL IN DETAIL.

About Ultra Start

It is our continuing objective to design and manufacture the absolute best Remote Car Starters, Vehicle Security Systems, Keyless Entry Systems and Security Bypass units available in today's competitive market. This objective is met by utilizing installation professionals with decades of industry experience to assist in each step of the design process. This has allowed us to build products that are very installer and user friendly yet offer advanced and innovative features. Our systems utilize intelligent programming and auto learning systems and are designed to work properly in every vehicle. Our systems are also designed wherever possible to be easily enhanced, allowing the consumer and the retailer to enjoy easy and cost effective upgrades and additions to their system down the road. Our limited lifetime warranty provides one of the best protection plans in the industry, giving both the consumer and the retailer confidence when they invest in an Ultra Start product.

Feature List

- Remote Keyless Entry.
- Engine Idle Mode.
- Anti-Grind Protection.
- Panic Mode. (Personal Protection)
- System Override Protection.(Service Mode)
- Park Light Diagnostics.
- Up to 4 Different Transmitter Codes.
- Built in Dual Stage Shock Sensor
- Timer Mode/Cold Start*. (3 Different Start Intervals)
- Instant Start
- Ignition Auto Locks.
- Turbo Timer Mode.
- Starter Disable.
- Car Finder
- Window Roll-up
- Dual Car Operation.
- Multi Tone Siren

*LT Models

Safety

VERY IMPORTANT SAFETY NOTES!

The owner/user **MUST INSTALL** a CARBON MONOXIDE DETECTOR in the living area near to where the vehicle is being stored or parked. It is the sole responsibility of the owner/user to keep the remote transmitters away from the reach of children and handle with care so that the system does not unintentionally start. When the vehicle is parked in an enclosed/partially enclosed area (*ex: garage, car port...*), being serviced (*ex: oil change*) or the vehicle is loaned to an operator not familiar with a remote starter, the system MUST BE placed Service Mode (see page 10).

MANUAL TRANSMISSION STARTERS the installation of a remote starter **MUST** only be done with a specified manual transmission starter. It is the sole responsibility of the vehicles owner to insure that the vehicle is left with the transmission in neutral position when the remote starter is in use. The manual transmission starter is designed to be an added measure of safety **ONLY!** The manufacturer does not guarantee or insure against any damages or loss of life that could result in the event of a remote starter starting while the vehicle is in gear. Manual transmission models are designed only to act as a deterrent against the vehicle starting in gear, this is the vehicle's owner's and operator's responsibility.

NEVER OPERATE THE SYSTEM IN AN ENCLOSED/PARTIALLY ENCLOSED AREA!

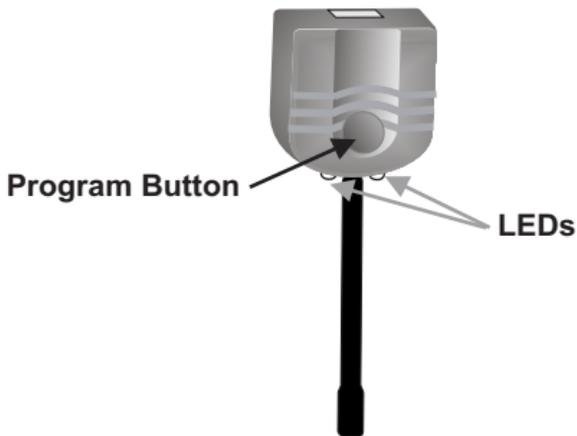
Remote Transmitters and Antenna



FM Two Way



FM One Way



Active RF antenna with built in LEDs and Program Button.

NOTE: Remote transmitter's and antenna may not be exactly as shown.

Remote Starter Functions

Remote Starting (if remote start fails to start see page 15)

1. Press and release the  button.
2. The park lights will flash and the siren will chirp once to confirm.
The vehicle will then remote start, the siren will chirp and the park lights will then flash four times then remain on while the vehicle is running.*

Extended Run Time

1. While the vehicle is running with the remote starter, press and release the  button.
2. The park lights will flash and the siren will chirp one time to confirm.
The system will reset the run time.*

NOTE: Not available with 4 minute run time.

Remote Stop

1. While the vehicle is running with the remote starter, press and hold the  button for three seconds. The remote starter will shut down.
2. The park lights will flash and the siren will chirp 2 times to confirm shutdown.

NOTE: Pressing the brake pedal or opening the hood will also shut down the remote starter.

Idle Mode

1. While the vehicle is running with key, press and release the  button.
2. The park lights will turn on and the siren will chirp twice.
3. Turn the ignition key to the "OFF" position and the vehicle will remain running*

Turbo Timer Mode

1. While the vehicle is running with key, press the  button.
2. The park lights will turn on and the siren will chirp twice.
3. Turn the ignition key off and the vehicle will continue to run for approximately 2 minutes.

NOTE: Reservation Mode on "M" series will not set if Idle mode or Turbo Timer mode are being used.

*(Default 15 minutes)

Reservation Mode - (Manual Transmission Vehicles)

Very Important! Do not set Reservation Mode if the vehicle is occupied.

Manual transmission remote starters must be set into Reservation Mode before the remote starter will activate. The activation type of Reservation Mode is determined when the system is installed.

Auto Reservation Mode (Default)

- Step 1** - While the vehicle is running, place into neutral and apply the park brake.
- Step 2*** - Press and release the brake pedal twice. The park lights will flash twice, the siren will chirp twice and the doors will unlock (optional).
- Step 3** - Turn the ignition key off and the vehicle will continue running.
- Step 4**** - Within 30 seconds, exit the vehicle and close all the doors. The vehicle will then shut off .

Manual Reservation Mode (Optional)

- Step 1** - While the vehicle is running with the key, place transmission into neutral and apply the park brake.
- Step 2** - Press and release the  button. The park lights will flash twice, the siren will chirp twice and the doors will unlock (optional).
- Step 3** - Turn the ignition key off and the vehicle will continue running.
- Step 4** - Exit the vehicle and close all the doors.
- Step 5**** - Press and hold the  button for 3 seconds, the vehicle will then shut off.

* If the park lights **do not** stay on or the siren chirps a third time, repeat **Step 2**.

** If the vehicle has dome light delay, the vehicle may stay running until the dome light turns off. This is normally no longer than 30 seconds.

THE VEHICLE MAY NOW BE SAFELY REMOTE STARTED.

(See page 4 for Remote Starter Functions.)

If Reservation Mode is not set, the remote starter will not activate. When the  button is pressed the park lights will flash 4 times. 4 flashes is the diagnostic code for "Not in Reservation Mode"

NOTE: Reservation Mode will reset if the doors of the vehicle are opened. To re-enter the vehicle without canceling the Reservation Mode (ex: forgot something..) The vehicle must first be remote started. While the vehicle is running by the remote starter the door may be opened. When done in the vehicle, close the door and remotely stop the vehicle by pressing and holding the  button.

Alarm Functions

Arm

1. Press and release the **Ⓜ** button.
2. The park lights will flash and the siren will chirp one time.
3. The doors will lock (optional).

NOTE: *The LEDs on the antenna will start flashing within five seconds. If installed, the starter disable will activate.*

Disarm

1. Press and release the **Ⓟ** button on the remote transmitter.
2. The park lights will flash and the siren will chirp two times.
3. The doors will unlock (optional).

NOTE: *The LEDs on the antenna will stop flashing. If installed, the starter disable will deactivate.*

Silent Arm/Disarm

1. Press and release the **Ⓜ** and **Ⓟ** buttons simultaneously.
 - a) If the doors are in the *locked* position: The park lights will flash two times to confirm the doors have unlocked, *without* siren chirps.
 - b) If the doors are in the *unlocked* position: The park lights will flash one time to confirm the doors have *locked*, *without* siren chirp.

Panic

1. Press and hold the **Ⓜ** button on the remote transmitter.
2. The park lights will flash and the siren will sound.
3. Press and release the **Ⓜ** or the **Ⓟ** button to deactivate*.

*Panic will be active for 60 seconds or until disabled by the remote transmitter.

Drivers Priority Unlock (optional)

1. Press and release the **Ⓟ** button on the remote transmitter. The park lights will flash, the siren will chirp two times and the drivers door will unlock.
2. Press and release the **Ⓟ** button on the remote transmitter again and the remain doors will unlock.

NOTE: The **Ⓟ** button must be pressed a second time within 3 seconds.

Optional Remote Features

Car Finder

1. Press and release the  button two times within three seconds.
2. The park lights will flash and the siren will chirp 5 times.

NOTE: This feature available on Vibra mode ONLY! (see page 16).
This feature can be used to locate the vehicle in a crowded parking lot.

Auxiliary 5

1. Press and hold  and  buttons simultaneously. The park lights will flash and the siren will chirp one time to confirm.

Auxiliary 6

1. Press and hold  and  buttons simultaneously. The park lights will flash and the siren will chirp one time to confirm.

NOTE: The auxiliary outputs have two program modes (see dealer).

Mode 1 (with unlock)- The doors will unlock (optional) as soon as the buttons for the auxiliary output is pressed. The system will confirm with two park light flashes and siren chirps. Continue holding the auxiliary output buttons until the system confirms the auxiliary output with a park light flash and siren chirp.

Mode 2 (without unlock)- The system will confirm an auxiliary output with one park light flash and siren chirp without door unlock (optional).

NOTE: The outputs will be inactive when the ignition key is in the "ON" position. The outputs will stay active up to five seconds until the buttons are released.

Cold Start*/Timer Mode

Cold Start*/Timer Mode will start the vehicle at a user selectable start interval or temperature setting. The vehicle can be set to start once every 2, 3 or 4 hours in Timer Mode **or** -5,-15 or -25 Celsius in Temperature Mode*, for a maximum of 12 starts. The vehicle will start at the selected start interval/temperature and run for the programmed runtime**.

Example- Timer Mode. If the 4 hour start cycle was selected, the vehicle will start once every 4 hours and run for the programmed runtime**.

Example- Temperature Mode*. If the -15 Celsius start cycle was selected, the system will monitor the temperature (every 2 hours) until it falls below -15. The remote starter will start and run for the programmed runtime**.

NOTE: The optional Low Temp sensor* must be installed for the temperature settings to be available.

To Enter Cold Start*/Timer Mode.

Method 1- Press and release the  button, then press and hold the  button for 6 seconds or until park lights turn on.

While the park lights are on the start cycle can be selected.

2 hour or -5C/ 23F	Press  button	2 Park light flashes
3 hour or -15C/ 5F	Press  button	3 Park light flashes
4 hour or -25C/ -13F	Press  button	4 Park light flashes

NOTE: Cold Start*/Timer Mode must be set each time the user wishes to use this feature.

To Cancel Cold Start*/Timer Mode

Method 1- Press and release the  button, then press and hold the  button for 6 seconds.

NOTE: Pressing the brake pedal or turning the ignition to the ON position will cancel Cold Start/Timer Mode. Cancellation will be confirmed with 2 park light flashes and 2 siren chirps .

Never remote start or set the Cold Start Mode if the vehicle is parked in a Garage or Attached Carport! (see page 4 SAFETY)

*LT models ONLY

**Default 15 minutes

Remote Transmitter Learn

IMPORTANT! All remote transmitters not programmed at this time will be erased from memory for security.

STEP 1 - Within 3 seconds turn the ignition key to the “**ON**” position three times leaving “**ON**” the third time.



STEP 2 - **Press and hold the Program Button.** The park lights will turn “**ON**” and the siren will chirp once. **Continue to hold the Program Button,** the park lights will turn “**OFF**” and the siren will chirp 5 times quickly.



NOTE: If the parking lights do not turn “**ON**”, release the Program Button and turn the ignition to the “**OFF**” position, wait 5sec and repeat steps 1 & 2.

STEP 3 - While holding the Program Button, press and release the ⓘ button on each of the remote transmitters to be programmed.

NOTE: The siren will chirp once to confirm remote transmitter learn.

System Service Mode (Valet Mode)

System **Service Mode** will disable the remote starter. This will only effect the remote start portion of the system. The optional lock, unlock and trunk release features will still be operational. When the vehicle is to have any under hood or service work done, the system must be placed into **Service Mode**. This feature may also be used if a transmitter is lost, damaged or if the system malfunctions.

ENTERING SERVICE MODE

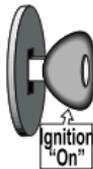
1. Turn the ignition key to the On position.
2. Press and hold the Program Button (Located on the antenna) for 5 seconds or until the siren chirps five times.

NOTE: The LEDs on the antenna will turn on solid to confirm Service Mode. If the  button is pressed while the system is in Service Mode the park lights will flash 3 times slowly.

EXITING SERVICE MODE

1. Turn the ignition key to the On position.
2. Press and hold the Program Button (Located on the antenna) for 5 seconds or until the siren chirps two times.

NOTE: The LEDs on the Antenna will turn off and the remote starter functions will be re-enabled.



ATTENTION:

TO AVOID SERIOUS INJURY, this remote start system must be set into Service Mode before any under hood servicing is started. Service Mode will prevent the vehicle from starting while the vehicle is being serviced. It is the sole responsibility of the vehicle's owner to place the system into Service Mode. The manufacture accepts no responsibility for accidental starting of the vehicle while the vehicle is being serviced.

LCD DISPLAY

These icons display the current status of the system. The icons may not all be present on the screen at all times, certain icons will only turn on when a feature is activated.

PROGRAMMABLE ICON'S



STATUS ICON'S

STATUS CHECK MODE

This feature is used to check the status of the system. To check the status press and release **Ⓢ** button on the remote transmitter. The remote will display the icons of the active features on the LCD screen.



ANTENNA ICON- This icon is always visible. A series of lines next to the icon will appear whenever the remote transmitter is within transmitting range of the vehicle. The lines will disappear when out of transmitting range.



KEY ICON- This icon will be displayed when the remote starter has been activated.



SIREN ICON- This icon will be displayed when the alarm has been triggered. The icon will stay displayed until the **Ⓢ** or the **Ⓛ** button is pressed.



TRUNK ICON- This icon will be displayed when the trunk release is activated. The icon will stay displayed until the **Ⓢ** or the **Ⓢ** button is pressed.



BATTERY ICON- This icon is always present to indicate the current battery level of the remote transmitter. The black area of the icon will disappear as the battery level decreases.



TIMER ICON- This icon is displayed when the timer/cold start mode is activated.

LCD DISPLAY

RUN TIMER- This icon activates during remote starting. The bar graph will count down in 2 minute increments, indicating how much time is left on the remote starter's runtime.

NOTE: At rest four bars will scan back and fourth.



EXHAUST and WHEEL'S- These icons activate during remote starting. They will stay on during the runtime countdown.



LOCK ICON- This icon indicates the LOCKED status of the system.

NOTE: The doors will be locked (optional) and the LEDs on the antenna will be flashing.



UNLOCK ICON - This icon indicates the UNLOCKED status of the system.

NOTE: The doors will be unlocked (optional) and the LEDs on the antenna will be off.



LCD DISPLAY

TRUNK ICON- This icon indicates that the trunk has been opened.



SIREN and LOCK ICONS- These icons indicate that the alarm has been triggered by the door, hood or ignition inputs.



SIREN and HAMMER ICONS- These icons indicate that the alarm has been triggered by the shock sensor input.



LCD DISPLAY

Setting The Time

Press and hold the  and  buttons until the remote transmitter chimes and the minute portion of the clock begins to flash.

To change from minutes to hours, press and release the  button.

To increase the minutes or hours, press and release the  button.

To decrease the minutes or hours, press and release the  button.

Press and release the  button to exit or the remote transmitter will exit if there is no activity for 20 seconds.

NOTE: To set the AM/ PM icon, continue changing the hour until the appropriate icon is displayed.

Setting Vibra Mode

To enter: Press and hold the  and  buttons until the remote transmitter chimes and the  icon is displayed.

To exit: Press and hold the  and  buttons until the remote transmitter chimes and the  icon is no longer displayed.

To Enter User Program Mode

1. Press and hold the  button for three seconds. The  Icon will begin to flash, the system is now in User Program Mode.
2. Press the  button to scroll the list of features. Selected feature icon will begin to flash.
- 3a. Press the  button to turn the feature icon OFF.
- 3b. Press the  button to turn the feature icon ON.
4. Press the  button to exit program mode and save settings.

****If the remote is not used for 20 seconds the system will exit Program Mode.***

LCD DISPLAY

Programable Icons-The six squares found at the bottom of the display are user/dealer programmable (see page 17 to enter).



TIMER ICON- When the vehicle starts in Timer Mode, this icon will appear in conjunction with the usual icons that indicate that the vehicle is running by the remote starter.



TELEPHONE ICON- N/A



KEY ICON- This icon is displayed if the ignition key is in the "ON" position or if the system detected a start fault.

NOTE: The start fault must be corrected before the remote starter will activate again (see page 19 for diagnostic codes).



NUMBER ICON- This icon is displayed to indicate First car or Second car remote transmitter operations.



SIREN ICON- If the icon is displayed, the siren will work normally. If the icon is not displayed, the siren delete feature is ON and the siren will not be active if a button is pressed on the remote transmitter.

NOTE: Panic and car finder will still be active.



SHOCK SENSOR ICON- If this icon is displayed the shock sensor is active. If this icon is not displayed the shock sensor is OFF.



SERVICE MODE ICON- This icon indicates the status of the Service Mode feature. If this icon is present, the system is in Service Mode.

NOTE: In Service Mode, keyless entry and optional features will still function.



VIBRA MODE ICON- This icon indicates the status of the Vibra Mode feature. If this icon is present, the remote transmitter will vibrate and not chime when a function is chosen.

Shock Sensor

Shock Sensor Programming/Adjustment

METHOD 1:

Step 1 - Press and hold the  and  buttons for 3 seconds. The siren will chirp and the park lights will flash 3 times and then the park lights will stay ON.

Step 2 - While the park lights are on strike the vehicle with the amount of force wanted to trigger the alarm*. Strike the vehicle the same amount of force 3 times. The siren will chirp each time the system detects impact.

Step 3 - Press and release  and  buttons to exit.

* Strike the vehicle with the palm of the hand, be careful not to impact the vehicle in an area that may cause damage. The most common location for testing and setting the shock sensor is the A-pillar. The A-pillar is the metal support that runs from the roof of the vehicle to the hood area. Avoid hitting the windshield when programming.

Temporary Shock Sensor Bypass

1. Press and release the  button (to arm system).
2. Press and release  button (within 3 seconds).
The system will chirp once to arm and once again to confirm Temporary Shock Sensor Bypass.

Diagnostics

If the remote starter does not activate when the  button is pressed the park lights will flash a diagnostic code to indicate what shutdown input has been triggered.

PARK LIGHTS

3 Slow Flashes
4 Slow Flashes
5 Slow Flashes
5 Flashes
6 Flashes
7 Flashes

STATUS LED

LED's On Solid
Series of 4 Flashes
Series of 5 Flashes
Series of 5 Flashes
Series of 6 Flashes
Series of 7 Flashes

DIAGNOSTIC CODE

System Is In Service Mode
Not in Reservation Mode (M units)
Ignition On During Start Attempt
Hood Pin Opened
Brake Pedal Shutdown
Tach Lock-Out(see dealer)

IMPORTANT SECURITY NOTES!

If the system has been triggered (shock sensor, door input..), the siren will sound for approximately 60 seconds. Press and release the  or the  button to silence the siren (the system will remain armed). Press and release  button to disarm the system. The siren and park lights will flash three times to indicate the system had been triggered.

Battery Replacement

The transmitter battery should be changed at least once every year to maintain proper operating range. Replace with a quality 1.5V battery (2 way remote). Replace with two quality 3V CR2025 lithium batteries (1 way remote).



Limited Lifetime Warranty

The manufacturer warrants to the original purchaser of their remote starters and alarms, that the product shall be free from defects in material and workmanship. However, should this product be proven to be defective, within a two year period from the original date of purchase, the manufacturer will, without charge to the purchaser (excluding any charges incurred to have the product delivered to the manufacturer), repair or replace any part of the remote starter and/or alarm which the manufacturer agrees to be defective. After the initial 2 year period the manufacture shall repair or replace defective products with a nominal processing fee of \$30.00 USD. All warranties apply to the original purchaser and the vehicle in which it was originally installed ONLY. Repairs or replacement of defective modules shall remain at the discretion of the manufacturer. All other parts, components, accessories and/or optional equipment pertaining to the remote starter and alarm are not included in the manufacturer's warranty. **This warranty is non-transferable.** Request for warranty service from any Factory Authorized Dealer **must be accompanied with the original purchase receipt or have product registered by authorized dealer on manufacturer's website.** Failure to comply with any of these conditions may result in warranty being voided. This warranty does not cover the following: removal and reinstall labor charges, shipping charges, abuse, misuse, or accidental damages to the remote starter and alarm, automobile, and/or parts there of. This warranty is void upon modification, repairs, or alterations of any part of the product. The manufacturer does not guarantee or insure against theft of the vehicle or its contents. Alarm models are designed only to act as a deterrent against possible theft. This alarm may qualify for auto insurance discounts, contact your Insurance Agent for further information . The manufacturer shall not be held liable for any consequential damages due to breach of this or any other warranty, expressed, or implied. This warranty gives you specific legal rights. Your specific legal rights may vary for each region.

CERTAIN DAMAGES EXCLUDED - The manufacturer expressly disclaims any liability or responsibility for incidental damages caused by the product, including economic loss, loss of use of the product, car rentals, or any other costs relating to the care and custody of the product. The manufacturer disclaims liability or responsibility for any consequential damages caused by the product or resulting from its use, including the cost of repairing or replacing other property damaged by the product or caused by its use, whether or not the product is working properly. The product is intended to deter unauthorized use of the vehicles in which it is installed. The manufacturer does not warrant that the product is fool-safe against theft and/or vandalism and/or human error or misuse. The manufacturer accepts no liability or responsibility for any damage of any kind whatsoever caused to any vehicle in which the product is installed or any resulting damage from its use. The manufacturer accepts no responsibility or liability for any damage resulting to or theft of the vehicle or its contents, caused or alleged to be caused, directly or indirectly, by failure of the product.

MANUAL TRANSMISSION STARTERS the installation of a remote starter **MUST** only be done with a specified manual transmission starter. It is the sole responsibility of the vehicles operator to insure that the vehicle is left with the transmission in neutral position when the remote starter is in use. The manual transmission starter is designed to be an added measure of safety **ONLY!** The manufacturer does not guarantee or insure against any damages or loss of life that could result in the event of a remote starter starting while the vehicle is in gear. Manual transmission models are designed only to act as a deterrent against the vehicle starting in gear, this is the vehicle's owner's and operator's responsibility.

FCC Notice

This device complies with Part 15 of the FCC rules. Operation of this device is subject to the following conditions:

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

CAUTION: Changes or modifications not expressly approved by the part responsible for compliance voids the users authority to operate this device.