

OWNER'S GUIDE

Covers All 45xx Series 2way Remote Starter/ Alarms

REMOTE STARTERS

CAR ALARMS



**ULTRA
START**

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

ATTENTION

- ! -The system must be placed into Service Mode before any service work is started on the vehicle. It is the sole responsibility of the vehicle owner to ensure that this is done. The manufacturer accepts no liability or responsibility for accidental starting of the vehicle.
- - CARBON MONOXIDE - Never Start in an Enclosed Building (Garage, Carport etc...)
- - The Hood Pin Safety Switch Must Always be Installed!
- - Never Install Automatic Transmission Remote Starters into a Manual Transmission Vehicle!

Welcome

Congratulations on your purchase of an Ultra Start remote vehicle starter with alarm system. Ultra Start remote vehicle starters and alarms will provide years of security, 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 up-gradable, 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.

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.

Remote Start - Automatic Transmission



1. Press and release button #3.
2. The park lights will flash and the siren will chirp one time.
3. The vehicle will then remote start. The park lights will flash four times then remain on while the vehicle is running. The run timer on the LCD will begin to countdown.
4. The vehicle will continue to run for the programmed runtime*.

**Never remote start if the vehicle is parked in a Garage.
Operate in a well ventilated area only.**

Note: If the remote starter fails to start, the park lights will flash a Trouble Shooting Code. Count the number of flashes and refer to the Diagnostics Chart on page 15.

Remote Stop



1. Press and hold button #3 for three seconds. The remote starter will shut down. The park lights will flash and the siren will chirp two times to confirm shutdown.

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

Extended Run Time



1. Press and release button #3 while the vehicle is running.
2. The system will respond with one park light flash and one siren chirp to confirm Extended Runtime. The system will reset the run time*.

Note: Extended runtime will not work if the runtime is programmed for 4 Minutes.

*Default 15 minutes

Idle Mode



1. While the vehicle is running with key, press button **#3**.
2. The park lights will turn on and the siren will chirp once.
3. Turn the ignition key off and the vehicle will continue to run.
4. Exit the vehicle and leave it running safely without leaving the keys in the Ignition.

Note: Always lock the doors while the vehicle is left running unattended. The vehicle will stay running for the programmed runtime (Default 15 minutes)

Turbo Timer Mode



1. While the vehicle is running with key, press button **#4**.
2. The park lights will turn on and the siren will chirp once.
3. Turn the ignition key off and the vehicle will continue to run for approximately 2 minutes.

Note: Always lock the doors while the vehicle is left running unattended.

Status Update



This feature is used to check the status of the vehicle. If the system does not update the remote after completing a function press Button **#4** on the transmitter. The remote will then display the current status of the system on the LCD screen.

If the system is out of operating range the remote transmitter will beep three times quickly after a button is pressed. The antenna icon on the top of the LCD will be gone or show no bars next to the icon.

Reservation Mode- Manual Transmission Only

Manual transmission remote starters must be set into Reservation Mode before the remote starter will activate. There are two different ways to place the system into Reservation Mode. The activation type of Reservation Mode is determined when the system is installed. The default setting is Auto Reservation Mode.

Auto Reservation Mode

- Step 1** - While the vehicle is running with the key, place the transmission 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** - Exit the vehicle and close all the doors. The vehicle will then shut off *.

Manual Reservation Mode (Dealer Programmable Feature)

- Step 1** - While the vehicle is running with the key, place the transmission into neutral and apply the park brake.
- Step 2** - Press and release button #4. 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 button #3 for 3 seconds, the vehicle will then shut off.

*******THE VEHICLE MAY NOW BE SAFELY REMOTE STARTED.*******
(See pages 3&4 for Remote Starter Functions.)

If Reservation Mode is not set, the remote starter will not activate. When button #4 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 (forgot something..) The vehicle must first be remote started. While the vehicle is running the door may be opened, when done in the vehicle, close the door and hold button #3 until the remote starter shuts off.*

* *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.*

Lock Doors and Arm Alarm



1. Press and release button #1 on the remote transmitter.
2. The park lights will flash and the siren will chirp one time.
3. The doors will lock.
4. The LEDs on the antenna will start flashing within five seconds.

Note: *If installed, the starter disable will activate.*

** To Lock/Arm without chirps, press #1 and #2 at the same time.*

Unlock Doors and Disarm Alarm



1. Press and release button #2 on the remote transmitter.
2. The park lights will flash and the siren will chirp two times.
3. The doors will unlock.
4. The LEDs on the antenna will stop flashing.

Note: *If installed, the starter disable will deactivate.*

** To Unlock/Disarm without chirps, press #1 and #2 at the same time.*

Priority Unlock Feature (Optional Feature)



1. Press and release button #2 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 button #2 again and the remain doors will unlock.

Note: Button #2 must be pressed a second time within 3 seconds.

Trunk Release



1. Press and hold button #2 and the doors will unlock, continue holding button #2, the trunk release will activate. The trunk release will be confirmed by one park light flash and one siren chirp.

Note: The trunk release output will not activate when the ignition key is in the "On" position.

Car Finder Mode



Car Finder is a feature that can be used to find your vehicle in a crowded parking lot.

1. Press and release button #4 twice within 3 seconds.
2. The park lights will flash and the siren will chirp five times to draw attention to the location of the vehicle.
3. The remote will beep and display the systems current status.

Panic Mode

Activating Panic Mode

1. Press and hold Button #1 for three seconds.
2. The park light will begin to flash and the siren will activate.
Panic mode will stay activated for one minute.



Note: If installed the starter disable will activate.

Disabling Panic Mode

Press and release Button #1 or Button #2 to disable Panic Mode.

Note: If installed the starter disable will deactivate.

Silent Arm and Disarm

Press and release buttons #1 and #2 at the same time.

If the doors were locked this will unlock the doors without chirping the siren. The park lights will flash as confirmation of lock/ unlocking.



Note: The siren can be programmed off by the remote transmitter. This will only delete Arm and Disarm chips, the alarm is still fully functional.

Siren On/Off



When this feature is programmed on the siren will only activate when the alarm is triggered or if the Car Finder is activated.

1. Press and hold button #4 until the Timer Mode icon begins to flash.
2. Press and release button #1 four times or until the siren icon begins to flash.
3. To turn the siren Off press button #2. Press button #4 to exit.
To turn the siren back on, press button #3 while the siren icon is flashing.

Auxiliary Output 1 (Optional)



Auxiliary Output are optional outputs from the system. These outputs Can be used to activate such things as power window roll-up/ down modules or to open and close a power sun roof.

To Activate Auxiliary #1

1. Press and hold buttons #1 and #3.
2. The park lights will flash and the siren will chirp 1 time.
3. The auxiliary output will stay activated until the button are released.

Auxiliary Output 2 (Optional)



Auxiliary Output are optional outputs from the system. These outputs Can be used to activate such things as power window roll-up/ down modules or to open and close a power sun roof.

To Activate Auxiliary #2

1. Press and hold buttons #2 and #3.
2. The park lights will flash and the siren will chirp 1 time.
3. The auxiliary output will stay activated until the button are released.

Cold Start/Timer Mode

Cold Start Mode will start the vehicle at a user selectable start interval or temperature setting. The vehicle can be set to start once every 1, 2, 3 or 4 hours in Timer Mode or to start at 0,-5,-15 or -25 Celsius in Temperature Mode (**LT Models Only**) for a maximum 12 starts. The vehicle will start at the selected start interval/ temperature and run for the programmed runtime (Normally 15min). Cold Start Mode must be set each time the user wishes to use this feature.



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 then turn off. This setting will keep the vehicle in Cold Start Mode for up to 2 days before deactivating.

Example- Temp Mode (LT models only). If the -15 Celsius start cycle was selected, the system will monitor the temperature until it falls below -15, at this time the remote starter will activate for the programmed runtime. The system will then wait 2 hours before checking the temperature again.

To Enter Cold Start Mode.

Press and release button **#4**, then press and hold Button **#3** for 6 seconds or until park lights turn on. While the park lights are on the start cycle can be selected.

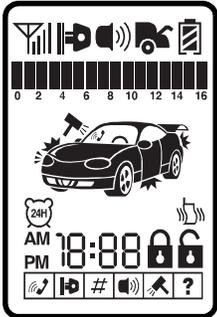
| Interval/ Temperature | Press To Select | Park Light Confirmation |
|------------------------------|------------------------|-----------------------------|
| 1 hour or 0 Celsius | Press button #1 | 1 Park light flash |
| 2 hour or -5 Celsius | Press button #2 | 2 Park light flashes |
| 3 hour or -15 Celsius | Press button #3 | 3 Park light flashes |
| 4 hour or -25 Celsius | Press button #4 | 4 Park light flashes |

Note: The optional Low Temp sensor must be installed for the Temperature Sensor settings to be available. (LT Models only)

To Cancel Cold Start Mode

Press and release button **#4**, then press and hold button **#3** for six seconds. Stepping on the brake or turning on the ignition will cancel Cold Start. Cancellation of Cold Start Mode will be confirmed with two park light flashes and two siren chirps.

LCD DISPLAY



STATUS CHECK MODE This feature is used to check the status of the system. To check the status press and release Button #4 on the remote transmitter. The remote will display the icons of the active features on the LCD screen.

STATUS ICONS 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.

ANTENNA ICON- This icon will be visible or show a series of lines next to the icon whenever the remote is within transmitting range of the vehicle. The icon will disappear when out of transmitting range.

KEY ICON- This icon will begin to flash when the remote starter button is first pressed. After the vehicle has started this icon will stay on solid.

SIREN ICON- This icon indicates that the alarm has been triggered. The remote will start to beep and the siren icon will come on solid at the same time as the icon for the violated zone.

TRUNK ICON- This icon will be displayed on the LCD screen when the trunk release is activated by the remote transmitter. This icon will be displayed until the system is armed or if the status button is pressed.

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

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.



LCD DISPLAY

User programmable features

This Feature allows the user to program system features from the transmitter. The following icons will be displayed on the LCD to determine the status of the feature.

To Enter User Program Mode

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

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



TIMER ICON- When this icon is displayed in the left program column it confirms that the Timer Mode has been programmed ON. When this icon is turned on in remote program mode the Cold Start feature will be activated. Cold Start will default to the last time or temperature setting.



KEY ICON- When this icon is displayed the remote starter has encountered a start fault. The start fault must be corrected before the remote starter will activate again.



HORN ICON(Chirp Delete) - This icon indicates the status of the chirp delete feature. If the icon is on, the horn will work normally. If the icon is not displayed the chirp delete feature is on and the horn will not chirp.
Note: Chirp delete disables the Lock and Unlock chirps Only.



SHOCK SENSOR ICON - This icon indicates the status of the shock sensor. If the icon is present on the LCD screen the shock sensor is active.



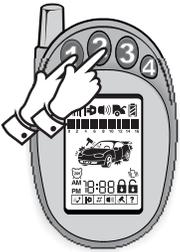
SERVICE MODE ICON- This icon indicates the status of the Service Mode feature. If this icon is present, the system is in Service Mode.
**While in Service Mode, only the keyless entry features will operate.*



VIBRATION/SOUND ICON- This icon indicates the status of the Vibration and Sound features of the transmitter. If the icon is on, the remote will vibrate and not beep. (Not on all Models)
To activate this feature press and hold buttons **#3** and **#4** four 5 seconds.

Shock Sensor Programming/ Adjustment

Press and hold buttons #1 and #2 for three seconds. The park lights will flash and the siren will three times.



While the park lights are on strike the vehicle with the amount of force wanted to trigger the alarm*. Hit the vehicle with the same amount of force three time, the siren will chirp each time the system detects the Impact.

*Strike the vehicle with the palm of the hand, be careful not to impact the vehicle in a 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.

Temporary Shock Sensor Bypass



This feature can be used if the vehicle is parked in an area with above average noise or vibrations. (Airports, construction zone...)

To Temporally Bypass The Shock

Press the button #1 to arm the alarm then press button #3 within three seconds. The system will chirp once when the lock button is pressed and once when the start button is pressed. The shock sensor will be disabled until the system is disarmed and the rearmed again.

Note: The shock sensor can be programmed by the remote transmitter. Hold button #4 until the 1st program icon begins to flash the use button #1 to scroll to the hammer symbol. Press button #2 to deactivate the shock sensor. To turn the sensor back on select the hammer symbol and press the button #3.

Setting The Time (On equipped models only)



- 1) Press and hold buttons #1 and #4 until the minute portion of the clock begins to flash.
- 2) To set the minute, press button #3 to increase and button #2 to decrease the minute.
- 3) To set the hour, press button #1 and the hour portion of the clock will begin to flash.
- 4) To set the hour, press button #3 to increase and button #2 to decrease the hour. To set the AM/ PM icon, continue changing the hour until the appropriate icon is displayed.

Note: The remote will exit clock adjust if there is no activity for 20 seconds.

Silent Remote Operation (On equipped models only)

This feature allows the user to switch the remote sound or vibrations features on or off.



The default setting on the system is audible sound confirmation (Beeps) from the remote transmitter when a button is pressed on the remote transmitter. To turn the “Beeps” off and have vibration confirmation, press and hold buttons #3 and #4 on the remote transmitter for 5 seconds. The vibration icon (See on left) will appear and the remote will vibrate once as confirmation. To set the remote back to “Beeps” press and hold buttons #3 and #4 for 5 seconds. The vibration icon will turn off and the remote will beep as confirmation.

Service Mode

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.

System Service Mode(Valet) - By Remote

ACTIVATE/DEACTIVATE Service Mode (User Programmable Feature)

- 1 - Press and hold button #4 for 3 seconds. (The remote will beep twice)
- 2 - Press button #1 Five times or until the ? starts flashing on the screen.
- 3 - Press button #3 to activate or #2 to deactivate Service Mode.
- 4 - Press button #4 to exit User Program Mode.

The System is Now in Service Mode.

- 5 - The siren will chirp once and the LEDs on the antenna will come on solid.

Emergency Service Mode - (Valet Mode)

This feature will disable the system except for lock, unlock and trunk functions. This mode is used if a remote is misplaced, damaged or if the system malfunctions. If the system was installed with a starter disable this feature will disable the starter disable relay and allow the vehicle to start.

Activate/ Deactivate Service Mode (Valet Mode)

To enter Service Mode turn the ignition key to the "On" position then press and hold the Program Button located on the antenna for 5 seconds. The system will chirp the siren **5 times** as confirmation. To Deactivate Service Mode, turn the ignition key "On" and hold the Program Button Until The siren Chirps **2 times**.

While the system is in Service Mode the remote starter and alarm functions will be disabled and the LEDs on the antenna will come "On" steady. As confirmation of Service Mode. The door lock, unlock and the trunk release will still be operational.

Diagnostics/ Diagnostics Chart

If the remote starter does not activate when button #3 is pressed the park lights will flash a diagnostic to indicate what shutdown input has been triggered.

Example when the start button is pressed the park lights flash 3 times slowly. Looking at the chart below this would indicate that the system is in Service Mode.

| Park Lights | Status LEDs | Diagnostic Code |
|----------------|---------------------|-----------------------------------|
| 3 Flashes | Series of 3 Flashes | Door Opened "M" Models |
| 3 Slow Flashes | Solid | System is in Service Mode |
| 4 Slow Flashes | Series of 4 Flashes | Not in Reservation Mode "M" units |
| 5 Flashes | Series of 5 Flashes | Hood Pin Opened |
| 5 Slow Flashes | Series of 5 Flashes | Ignition On During Start Attempt |
| 6 Flashes | Series of 6 Flashes | Brake Pedal Shutdown |
| 7 Flashes | Series of 7 Flashes | Tach Lock-Out |

Diagnostic Memory

LED Flashes Diagnostic

| | |
|-----------|---|
| 5 Flashes | The system was shutdown by the hood pin input |
| 6 Flashes | The system was shutdown by the brake switch input |
| 7 Flashes | The system did not detect the tach signal |
| 8 Flashes | The system made 3 start attempts without starting |

Being that the installer does not always see when the system shuts down or fails to start, Diagnostic Memory will store in memory up to four shutdown codes.

This information can then be accessed to determine the source of the shutdown.

To Enter Diagnostic Mode:

Step 1 - Turn the ignition on then off. Press the Program Button and release.

Step 2 - The system will respond with three park light flashes and the siren will chirp the same number of times as the events in memory. (Maximum 4 events, 4 chirps).

NOTE: If the siren does not chirp, there are no events in memory.

Step 3 - Press the Program Button once to view the last shut down code. The siren will chirp once to confirm code one. (If the siren does not chirp, there are no codes.)

Step 4 - The LEDs on the antenna will flash a code corresponding to a shut down trigger. Press the Program Button again to check the second code. The siren will chirp twice to confirm code two.

Step 5 - To **Clear Diagnostic Memory**. While in Diagnostic Mode press and hold the Program Button for five seconds. The park lights will flash and the siren will chirp once.

NOTE: Once diagnostic memory has 4 shutdown events in memory, the system will not Record any further shutdown events until the system memory has been cleared.

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 manufacturer 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.