

# ULTRA START

TM

## INSTALLATION GUIDE

[www.ultrastarters.com](http://www.ultrastarters.com)

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

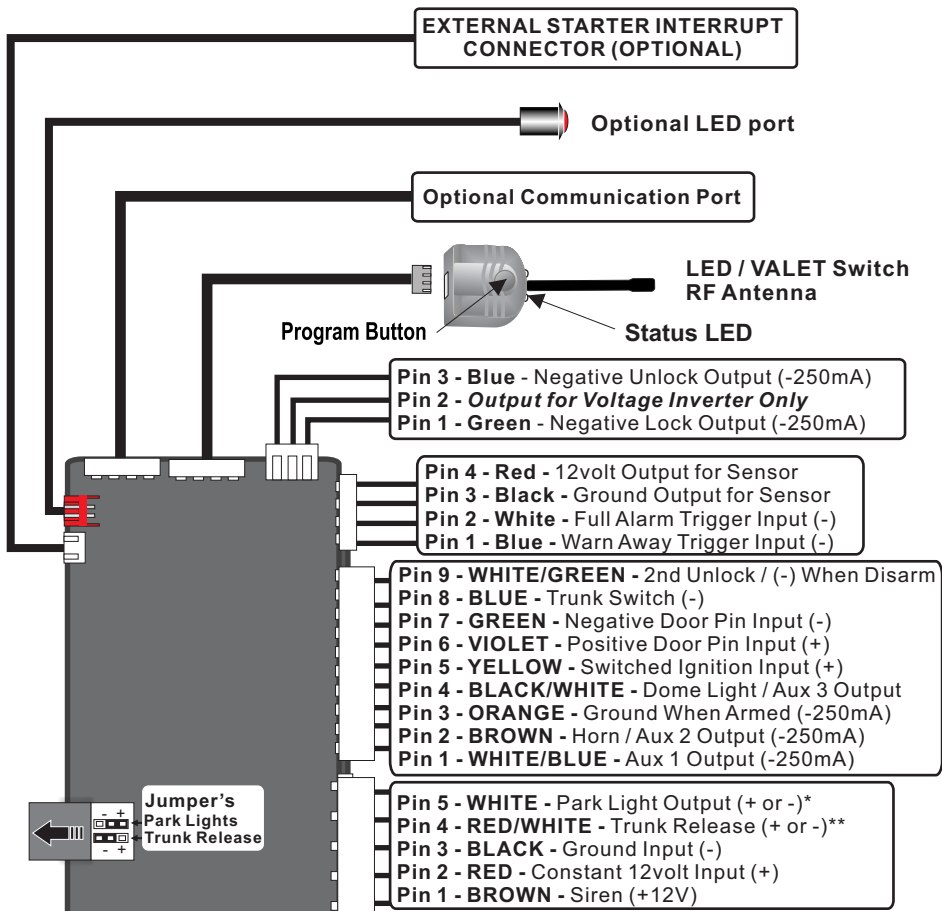
### FCC ID NOTICE

This device complies with Part 15 of the FCC rules. Operation 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 void the user's authority to operate this device.

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**WIRE DIAGRAM**


\*Park Lights are Jumper Selectable. **Default Positive.**

\*\*Trunk Release is Jumper Selectable. **Default Negative.**

**ENTERING PROGRAM MODE**

- 1 - Cycle the Ignition Key On/Off On/Off On.  
(Leave the key in the ON position)
- 2 - Press and release the Program Switch 1 time.  
(\*The Siren will chirp to confirm that the system has entered Program Mode.)  
\*If the siren does not chirp repeat steps 1 & 2.
- 3 - Select the Program Menu.  
-Press the Lock Button To Enter Menu 1.  
-Press the Unlock Button to Enter Menu 2.  
(\*The Siren will chirp to confirm that the system has entered the Menu.)

**See the following page for Program Menus and Settings.**

- 4 - Press and Release the Program Switch to advance through the settings.  
(Each setting is Confirmed by Siren Chirps & LED flashes)
- 5 - Press and hold the Program Switch to change the setting.  
(Confirmed by Siren Chirps\*)  
\* One Chirp = Setting 1  
\*\*Two Chirps = Setting 2  
\*\*\*Three Chirps = Setting 3
- 6 - To exit Program Mode, turn ignition key off.  
(Confirmed by Long Siren Chirp)

**SYSTEM RESET**

- 1 - Cycle the Ignition Key On/Off On/Off On.  
(Leave the key in the ON position)
- 2 - Press and release the Program Switch 1 time.  
(\*The Siren will chirp to confirm that the system has entered Program Mode.)  
\*If the siren does not chirp repeat steps 1 & 2.
- 3- Press and Hold the program switch until the siren chirps 3 times.  
(The system is now reset to default settings)

**PROGRAM MODE**
**PROGRAM MODE 1** 

SETTING # LED FLASHES	DESCRIPTION	OPTION 1 1 CHIRP	OPTION 2 2 CHIRPS	OPTION 3 3 CHIRPS
1	IGNITION AUTO-LOCK	IGNITION AUTO-LOCK & UNLOCK ENABLED	IGNITION AUTO-LOCK ONLY	IGNITION AUTO-LOCK DISABLED
2	SIREN SETTINGS	SIREN CHIRPS DISABLED	SIREN CHIRPS ENABLED	
3	DOOR LOCK OPTIONS	DOUBLE UNLOCK / SINGLE LOCK PULSES	DOUBLE LOCK / SINGLE UNLOCK PULSES	SINGLE UNLOCK / SINGLE LOCK PULSES
4	DOOR LOCK PULSE TIMES	0.25 SECOND PULSES	3 SECOND PULSES	0.75 SECOND PULSES
5	SHOCK SENSOR SETTINGS	SENSOR DISABLED	SENSOR ENABLED	
6	PASSIVE ARMING	FULL PASSIVE ARMING	PASSIVE SAFETY REARM ONLY	ALL PASSIVE ARMING DISABLED
7	PASSIVE DOOR LOCKS	PASSIVE DOOR LOCKS DISABLED	PASSIVE DOOR LOCKS ENABLED	
8	UNIT MODE	2 WAY (U550)	1 WAY (U500)	

**PROGRAM MODE 2** 

SETTING # LED FLASHES	DESCRIPTION	OPTION 1 1 CHIRP	OPTION 2 2 CHIRPS	OPTION 3 3 CHIRPS
1	VALET SETTINGS	SECURE VALET 15 SECONDS	STANDARD VALET 8 SECONDS	
2	PARK LIGHT OUTPUT	30 SECOND ON FOR DISARM	N/A	NORMAL OPERATION
3	AUX 1 BUTTON 3**	0.75 SECOND PULSED OUTPUT	LATCHED IGNITION ON RESET	ACTIVE WHILE BUTTON IS HELD
4	ANIT-CARJACK MODE OPTIONS***	CARJACK MODE 1	CARJACK MODE 2	CARJACK MODE DISABLED
5	HORN OUTPUT TIMING	50mS HORN OUTPUT	20mS HORN OUTPUT	10mS HORN OUTPUT
6	AUX 2 (HORN / AUX) Button 3 & 4**	0.75 SEC PULSED OUTPUT	ACTIVE WHILE BUTTON IS HELD	HORN OUTPUT & CAR FINDER
7	AUX 3 (DOME LIGHT) Button 1 & 3**	0.75 SEC PULSED OUTPUT	ACTIVE WHILE BUTTON IS HELD	DOMELIGHT OUTPUT
8	2ND UNLOCK/ (-) WHEN DISARMED	GROUND WHEN DISARMED	SECOND UNLOCK OUTPUT	

\*\* 1 way: Button 1 - lock, Button 2 - unlock, Button 3 - \*, Button 4 - #

\*\* 2 way: Button 1 - lock, Button 2 - unlock, Button 3 - Start, Button 4 - Trunk

\*\*\* Available in International Version

**= DEFAULT SETTING**

## WIRE DESCRIPTION



**Pin 3- Blue Wire-** Negative Unlock Output (-250ma Output)

**Pin 2- 12volt Output for Voltage Inverter.**

**Pin 1- Green Wire-** Negative Lock Output (-250ma Output)



**Pin 9- White/Green Wire-** 2nd Unlock/ (-) When Disarmed Output

**Pin 8- Blue Wire-** Hood/ Trunk Switch Input (-)

**Pin 7- Green Wire-** Negative Door Pin Input (-)

**Pin 6- Violet Wire-** Positive Door Pin Input (+)

**Pin 5- Yellow Wire-** Switched Ignition Input (+)

**Pin 4- Black/White Wire-** Dome Light/ AUX 3 Output (Hold Button 1 & 3\*\*)

**Pin 3- Orange Wire-** Ground When Armed/ Starter Disable

**Pin 2- Brown Wire-** Horn Output/ AUX Channel 2 (Hold Button 3 & 4\*\*)

**Pin 1- White/Blue Wire-** AUX Channel 1 (Hold the Button 3\*\*)



**Pin 5- White-** Park Light Output (+ or -) (Hold Trunk Button)

**Pin 4- Red/White-** Trunk Release (- or +) (Hold Trunk Button)

**Pin 3- Black-** System Ground Input (-)

**Pin 2- Red-** Constant 12volt Input

**Pin 1- Brown-** Siren Output (+)

\*\* 1 way: Button 1 - lock, Button 2 - unlock, Button 3 - \*, Button 4 - #

\*\* 2 way: Button 1 - lock, Button 2 - unlock, Button 3 - Start, Button 4 - Trunk

**SYSTEM WIRING****WIRE DESCRIPTION**

<b>Blue</b>	(-) Output When Unlock Is Pressed For 1 Second. (Programmable)
<b>Red</b>	(+) LOW CURRENT OUTPUT FOR VOLTAGE INVERTER ONLY.
<b>Green</b>	(-) Output When Lock Is Pressed For One Second. (Programmable)

<b>White/Green</b>	(-) 2nd Unlock Output / Ground Output When Disarmed. (Programmable)
<b>Blue</b>	(-) Hood/ Trunk Switch Detection.
<b>Green</b>	(-) Door Pin Switch Input For Door Pin Detection.
<b>Violet</b>	(+) Door Pin Switch Input For Door Pin Detection.
<b>Yellow</b>	(+) Switched Ignition Input. This Wire Must Be Connected.
<b>Black/White</b>	(-) 30 Second Output When Disarmed/ AUX 3. (Programmable)
<b>Orange</b>	(-) Continuous Output When The Lock Button Is Pressed.
<b>Brown</b>	(-) Output For Horn Honk/ Car Finder. (Programmable).
<b>White/Blue</b>	(-) Active Output When The * Button Is Held. (Programmable).

<b>White</b>	Jumper Selectable Output From Park Light Relay. Default is Positive Park Lights.
<b>Red/White</b>	Jumper Selectable Output From Trunk Relay. Default is Negative Trunk Release.
<b>Black</b>	System Ground Input. Connect To Chassis Ground.
<b>Red</b>	System 12volt Supply. Connect To Constant 12 Volt Source.
<b>Brown</b>	Output For Siren Activation. (+) 2amp Max.

**SHOCK SENSOR INPUT**

The supplied dual stage shock sensor connects directly to the shock sensor connector on the alarm module. The adjustment screw on the sensor will increase or decrease the sensitivity. The first and second stage are controlled by the same adjustment screw.

Test the alarm sensitivity then adjust as required. If the alarm is triggered 3 times in a row you will need to cycle the ignition on then off to reset the shock sensor before testing again.

If a secondary sensor is being installed, the wiring for the connector is as follows:

PIN 4	Red	12 Volt Output For Auxiliary Sensor.
PIN 3	Black	Ground Output For Auxiliary Sensor.
PIN 2	White	Full Trigger Input For Auxiliary Sensor.
PIN 1	Blue	Warn-away Input For Auxiliary Sensor.

**ANTENNA/ VALET / PROGRAMMING SWITCH**

For maximum range mount the Antenna in the center of the windshield, behind the rear-view mirror. The antenna also contains the program/ valet switch as well as status LEDs for system status and diagnostics.

**DATA PORT**

The Data Port Connector Is Used For Fortin and I-Data Bypass Modules As Well As Compatible Tracking Units.



**TRANSMITTER PROGRAMMING****PROGRAMMING TRANSMITTERS**

The system can learn up to 3 different remotes. Each remote to be used **MUST** be programmed together during the same sequence. For security, when a new remote is programmed all previous remotes are deleted. Please see remote operation chart for information on using Second Car / Padlock Operations.

**ENTERING REMOTE PROGRAM MODE**

**Cycle the Ignition Key - ON/OFF ON/OFF ON**  
(Leaving the key ON)



Press and **HOLD** the valet switch, the Park Lights will turn on.  
\*The Siren will Chirp once.  
(Repeat from Step 1 if the system does not respond)



After 5 seconds the park lights will turn off.  
\*The Siren will Chirp 5 times.

**PROGRAMMING REMOTE**

Press and release the Lock Button on each of the remote to be programmed.  
See notes below if the remote is to be programmed for 2nd car or PADLOCK.



The system will respond by flashing the park lights for each remote.  
\*The Siren will Chirp once for each remote.










Turn off the key when all the remotes are programmed.

**SECOND CAR & PADLOCK**

**PADLOCK** is used to prevent accidental activation on the remote. The Trunk Button must be pressed once before the intended feature button. (See Second Car/ PADLOCK operation)  
Use the same remote programming mode and program the transmitter using the Trunk Button instead on the Lock Button.











**2nd Car Operation** allows a single remote to control two vehicles. Use the same remote programming mode and enter the transmitter as shown below.

**In Car One-** Press Lock on car 1 remote. Press Trunk button on car 2 remote.  
**In Car Two-** Press Lock on car 2 remote. Press Trunk button on car 1 remote.







BUTTON ICON	BUTTON DURATION	CHIRP/ FLASH	SYSTEM FUNCTION
	1 SECOND	1	ARM ALARM / LOCK DOORS
	3 SECONDS	1	ACTIVATE PANIC MODE
	1 SECOND	2	DISARM ALARM / UNLOCK DOORS
	1 SECOND - 1 SECOND	3	DRIVER'S DOOR PRIORITY (OPTIONAL / PROGRAMMABLE)
	3 SECONDS	1	AUX 1 OUTPUT**
	PRESS AND HOLD FOR 3 SECONDS	2	ACTIVATES TRUNK RELEASE**
	1 SECOND	0	STATUS CHECK
	3 SECONDS	0	ENTER PROGRAM MODE
 + 	PRESS TOGETHER FOR 1 SECOND	FLASH ONLY	SILENT LOCK/ UNLOCK

## SYSTEM OPERATIONS (2 WAY)



INSTALL MANUAL



BUTTON ICON	BUTTON DURATION	CHIRP/ FLASH	SYSTEM FUNCTION
 + 	PRESS TOGETHER FOR 3 SECONDS	5	CAR FINDER (DEFAULT)
		1	AUX 2 (DEALER OPTION)**
 + 	PRESS TOGETHER FOR 3 SECONDS	1	AUX 3 OUTPUT** (DEALER OPTION)
 + 	PRESS TOGETHER FOR 3 SECONDS	TUNE	ENTER CLOCK ADJUST MODE FOR REMOTE
 + 	PRESS TOGETHER FOR 3 SECONDS	NONE	REMOTE VIBRATION MODE ON / OFF
 → 	PRESS AND RELEASE LOCK THEN PRESS AND RELEASE TRUNK	1	ARMS / LOCKS AND TURNS OFF SHOCK SENSOR (FOR 1 ARM CYCLE ONLY)

\*\* PROGRAMMABLE OUTPUT - CHECK WITH INSTALLATION CENTER FOR DETAILS









BUTTON	BUTTON PRESS	CHIRP / FLASH	SYSTEM FUNCTION
 <b>LOCK</b>	1 SECOND	1	LOCK / ARM ALARM
	3 SECONDS	1	ACTIVATE PANIC
	PRESS THEN RELEASE THEN PRESS & HOLD	1	ACTIVATE CONSTANT LOCK OUTPUT **
 <b>UNLOCK</b>	1 SECOND	2	UNLOCK / DISARM
	1 SECOND WHILE ALARM IS TRIGGERED	NONE	TURNS OFF SIREN BUT ALARM IS STILL ARMED
	1 SECOND	3	UNLOCK / DISARM ALARM EVENT IN MEMORY <i>see alarm event memory chart</i>
	HOLD FOR 3 SECONDS	1	ACTIVATES AUX OUTPUT**
<b>** PROGRAMMABLE OUTPUT - CHECK WITH INSTALLATION CENTER FOR DETAILS</b>			
	PRESS AND HOLD FOR 3 SECONDS	ON	ACTIVATES TRUNK RELEASE**
	PRESS TOGETHER FOR 3 SECONDS	5	CAR FINDER (DEFAULT)
		1	AUX 2 (DEALER OPTION)**
	PRESS TOGETHER FOR 1 SECOND	FLASH ONLY	SILENT LOCK/ UNLOCK
<b>NO SIREN CHIRPS - ACTS AS A TOGGLE - IF ARMED WILL DISARM, IF DISARMED WILL ARM</b>			

## SYSTEM OPERATIONS (1 WAY)

 → 	PRESS AND RELEASE LOCK THEN PRESS AND RELEASE TRUNK	1	ARMS / LOCKS AND TURNS OFF SHOCK SENSOR (FOR 1 ARM CYCLE ONLY)
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 + 	PRESS TOGETHER FOR 3 SECONDS	1	AUX 3 OUTPUT** (DEALER OPTION)
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SECOND CAR OPERATION/ PADLOCK. SEE TRANSMITTER PROGRAMMING FOR INFORMATION ON PROGRAMMING THIS FEATURE.

BUTTON	BUTTON PRESS	CHIRP / FLASH	SYSTEM FUNCTION
 → 	1 SECOND - 1 SECOND	1	LOCK / ARM ALARM
	1 SECOND - 3 SECONDS	1	ACTIVATE PANIC ALARM
 → 	1 SECOND - 1 SECOND	2	UNLOCK / DISARM
	1 SECOND - 1 SECOND WHILE ALARM IS TRIGGERED	NONE	TURNS OFF SIREN BUT ALARM IS STILL ARMED
	1 SECOND - 1 SECOND	3	UNLOCK / DISARM ALARM EVENT IN MEMORY <i>see alarm event memory chart</i>
 → 	1 SECOND - 3 SECONDS	1	ACTIVATES TRUNK RELEASE OUTPUT
<b>** PROGRAMMABLE OUTPUT - CHECK WITH INSTALLATION CENTER FOR DETAILS</b>			
 → 	1 SECOND - 3 SECONDS	1	ACTIVATES AUX 1 OUTPUT
<b>** PROGRAMMABLE OUTPUT - CHECK WITH INSTALLATION CENTER FOR DETAILS</b>			

## ACTIVATING ANTI CARJACK MODE (International Model Only)

This feature requires that the user must be fully aware of the operation of this feature. If the system goes into full alarm the remote will no longer function until the Anti Carjack Feature is disabled.

## ANTI CARJACK FEATURE

**Type-1** - The timer will start if the door is opened or if the # button is held for 3 seconds while the ignition is on.

**Type-2** - The timer will start if the door is opened or if the # button is held for 3 seconds while the ignition is on. The timer will also start every time the ignition is turned on.

## ANTI CAR JACK ALERT

When programmed, the Anti Carjack timer is triggered when a door is opened or a button is pressed on the remote while the ignition is on. Type 2 Carjack Mode will trigger the timer with the door and trunk button as well as each time the ignition is turned on.

If Anti Carjack is triggered, there will be no indication in the first 20 seconds.

After 20 seconds the LED will begin to flash rapidly to indicate that the Carjack feature is active. After an additional 20 seconds the siren will then start to chirp each second for an additional 20 seconds.

The alarm will now activate, the ignition will interrupt, parking lights will flash, and the siren will alert indicating trouble. The lights and siren will pause momentarily between each one minute cycle, and repeat until disarmed.

Note - Turn the ignition key off before opening the door to avoid triggering the Anti Carjack Feature. Pressing and releasing the valet button with the key on during the first 60 seconds will stop the Carjack timer.

## DISARMING ANTI CARJACK FEATURE

To disarm the Anti Carjack timer process during the initial 60 seconds of activation, turn the ignition key off then on, then press the valet button momentarily.

To disarm the Anti Carjack alert process during the lights and siren cycles, turn the car off then on, then press and hold the valet button for 5 seconds.

**DIAGNOSTICS****ALARM STATUS / DIAGNOSTICS**

If the alarm system is triggered, the system will retain in memory the cause of the trigger. When disarming the alarm, the siren/horn will chirp 3 times to indicate the alarm had been triggered. The system's LED will also flash in pulses to indicate which input triggered the alarm.

*\*LED status will be cleared when the ignition is turned ON. For proper memory clearing, insure to connect the alarm ignition input to the ignition on the vehicle.*

SIREN CHIRPS	LED FLASHES	DIAGNOSTICS / STATUS
3	2	SHOCK SENSOR TRIGGER
3	3	DOOR / HOOD TRIGGER
3	4	IGNITION TRIGGER
0	OFF	SYSTEM DISARMED
0	ON SOLID	SYSTEM IN VALET / SERVICE MODE
0	SINGLE FLASHES	SYSTEM ARMED
0	RAPID FLASHES	PASSIVE ARM COUNTDOWN

**OVERLOAD DIAGNOSTICS**

If an output from the alarm is shorted the siren will chirp 4 times and, the park lights will flash 4 times when the system is armed or disarmed. The LED will flash a diagnostic code that represents the circuit that is at fault. (See Chart Below). Turning the ignition to the on then off position will reset the diagnostic code.

LED FLASHES	OUTPUT DIAGNOSTICS
2	LOCK OUTPUT OVERLOAD
3	UNLOCK OUTPUT OVERLOAD
4	TRUNK OUTPUT OVERLOAD
5	STARTER DISABLE OVERLOAD
6	AUX 3 OUTPUT OVERLOAD
7	AUX 2 OUTPUT OVERLOAD
8	2ND UNLOCK OUTPUT OVERLOAD

technical support: [support@ultrastarters.com](mailto:support@ultrastarters.com)  
additional product information: [www.ultrastarters.com](http://www.ultrastarters.com)

### **IMPORTANT NOTES**

LOCK, UNLOCK, DRIVER'S DOOR PRIORITY UNLOCK, TRUNK RELEASE AND THE AUXILIARY OUTPUTS ARE OPTIONAL OUTPUTS. ENABLING THESE FEATURES REQUIRES CUSTOM INSTALLATION & PROGRAMMING. THESE FEATURES MAY NOT BE COMPATIBLE WITH SOME VEHICLES.

FOR SAFETY REASONS THE TRUNK RELEASE OUTPUT WILL NOT ACTIVATE WHEN THE IGNITION IS IN THE ON POSITION.

NOTE: PADLOCK AND 2ND CAR OPERATION ARE FEATURES THAT REQUIRE SPECIAL PROGRAMMING.

SOME FEATURES MAY NOT BE AVAILABLE FOR ALL APPLICATIONS. CONTACT YOUR DEALER FOR MORE INFORMATION.