



# APS-687TWE

Owners Guide  
Deluxe 7 Channel LED  
Remote Start System  
With Keyless Entry

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### FCC COMPLIANCE

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### Warning!

Changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment  
NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

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

## **Deluxe 7 Channel LED Remote Start System With Keyless Entry**

### **FEATURES :**

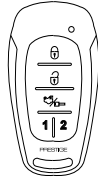
- ◆ 1 Five Button LED Programmable RF Transmitters
- ◆ 1 Five Button Programmable RF Transmitters
- ◆ Seven Channel Receiver (capable of accepting 4 transmitters)
- ◆ Code Hopping Technology
- ◆ External Superheterodyne Antenna w/PushButton Switch and LED
- ◆ Safe Start RF Control (Double Push Of RF Transmitter)
- ◆ Selectable Automatic Timed Start Mode
- ◆ Keyless Entry Outputs (-)
- ◆ On-Board Start Relay
- ◆ On-Board Accessory Relay
- ◆ 3 On-Board Ignition Relays
- ◆ On-Board Parking Light Relay
- ◆ Ignition 2 and 3 Relay Selectable On or Off During Cranking
- ◆ Ground Output While Running / Shock By-Pass / GM VAT Output
- ◆ Tach Signal Learning Circuit
- ◆ Two ( + ) and Two ( - ) Safety Shutdown Circuits
- ◆ Alarm By-Pass Output
- ◆ Channel 3 Output for Remote Trunk Release (relay required)
- ◆ Channel 4, 5, 6, and 7 Output to Control Optional Accessories
- ◆ Selectable Steady or Flashing Parking Lights for Run Indication
- ◆ Selectable Run Times
- ◆ Selectable Door Lock Output Pulse Timing
- ◆ Optional Illuminated Entry Output (Relay Required)
- ◆ Vehicle Horn Activation Output For R/S Annunciation
- ◆ External Activation Control Input
- ◆ Turbo Timer Mode

### **OPTIONS:**

- ◆ Telematic Upgrade Ready
- ◆ Plug In Flash Logic By-Pass Capable
- ◆ Remote Power Window Control
- ◆ Multiple Vehicle Capable

**WARNING!** Be certain that the vehicle is outdoors before using this or any remote vehicle 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 the car is garaged.

### YOUR "SPREAD SPRECTUM" TRANSMITTERS



The transmitters included with your new security system use the most advanced and secure form of radio frequency transmission available on any current automotive security system. Some of today's sophisticated auto thieves use a device known as a code grabber, which will receive and store the signal from your keychain transmitter and re-transmit at a later time to disarm your system.



Your Spread Spectrum transmitters will shift frequencies making it impossible for a thief to grab and rebroadcast your code.

If your transmitter button is pressed more than fifty times while it is out of range of the vehicle (children playing with your keys), the transmitter will not operate when you return to the vehicle, and will need to be re-aligned to the receiver. To do this, simply press the lock/unlock button two times within a one second time period. The system will now respond to that transmitter each time a button is pressed.

For reference the transmitter packaged with your system may not appear exactly as shown. This depiction is for reference only.

**NOTE:** As an option, this system has the ability to operate the vehicle's horn which may require some additional parts. If this feature is installed, the vehicle's horn will beep once when you lock the doors, twice when you unlock the doors, twice when the Remote Start feature is activated, and will beep during the car finder mode to allow you to find the vehicle more easily in a crowded parking lot.

### THE LED TRANSCEIVER:

Shown above right, will respond with an LED flash when any command is issued. Press the lock button, and when the vehicle receives the command, it will report back that the function was executed by flashing the corresponding LED, Lock, Unlock, Trunk, or in the case of Remote Start the LED will flash once every 10 seconds while the vehicle is running under its control.

### KEYLESS ENTRY

1. To lock your vehicle, exit the vehicle, close all doors, hood and trunk, then simply press the lock button of your keychain transmitter. To unlock your vehicle, simply press the unlock button of your keychain transmitter. As a keyless entry unit, for your convenience, the parking lights will flash

once when the doors are locked and twice when the door are unlocked. If the optional illuminated entry feature has been added, the interior light will turn on when the doors are unlocked and remain on for 30 seconds or until the ignition is turned on.

Holding the lock/unlock transmitter button for 3 seconds will activate the car finder mode causing the parking lights to flash and the optional horn to beep for 30 seconds. Activating these button's a second time for 3 seconds. or pressing any other transmitter button while the car finde mode is active will cancel this mode.

**NOTE:** This system has the ability to unlock the drivers door with the first press of the unlock transmitter button and then unlock all other doors when the unlock button is pressed a second time. This optional feature may require additional components. Consult your installation center to determine if this feature has been added to your vehicle. Additionally this system can be programmed to automatically lock and unlock the doors with the turning on and off of the ignition key.

#### **ADDITIONAL REMOTE FUNCTION (CHANNEL 3)**

This system has an additional feature that can be connected to a number of different optional accessories. Some of the more common uses for this channel are:

- Remote Trunk Release
- Remote Window Closure
- Remote Garage Door Interface

To activate the optional accessory, press and hold the trunk/key button on the keychain transmitter for four seconds.

**NOTE:** The feature that has been added to channel 3 will always be activated using the same transmitter button that remotely starts the vehicle. There is no way to move the channel 3 function to a different transmitter button.

#### **ADDITIONAL REMOTE FUNCTION (CHANNEL 4)**

This system has an additional feature that can be connected to a number of different optional accessories. Some of the more common uses for this channel are:

- Can Be Set Up To Activate Rear Window Defogger During Remote Start If Vehicle Is So Equipped
- Remote Window Closure
- Rear Hatch Release

- Right Or Left Slider Doors in An Equipped Van

To activate the optional accessory, press the option button on the key-chain transmitter. The optional accessory will immediately engage.

#### **ADDITIONAL REMOTE FUNCTION (CHANNEL 5)**

This system has an additional feature that can be connected to a number of different optional accessories. Some of the more common uses for this channel are:

- Remote Trunk Release
- Remote Window Closure
- Rear Hatch Release
- Right Or Left Slider Doors in An Equipped Van

To activate the optional accessory, press the option button on the key-chain transmitter. The optional accessory will immediately engage.

#### **ADDITIONAL REMOTE FUNCTION (CHANNEL 6)**

This system has an additional feature that can be connected to a number of different optional accessories. Some of the more common uses for this channel are:

- Rear Hatch Release
- Right Or Left Slider Doors in An Equipped Van
- Driver Priority Settings In Vehicles So Equipped

To activate the optional accessory, press the option button on the key-chain transmitter. The optional accessory will immediately engage.

#### **ADDITIONAL REMOTE FUNCTION (CHANNEL 7)**

This system has an additional feature that can be connected to a number of different optional accessories. Some of the more common uses for this channel are:

- Rear Hatch Release
- Right Or Left Slider Doors in An Equipped Van
- Driver Priority Settings In Vehicles So Equipped
- Second Driver Priority Settings In Vehicles So Equipped

To activate the optional accessory, press the option button on the key-chain transmitter. The optional accessory will immediately engage.

**NOTE:** If your system utilizes the transmitter shown, the second option button may be configured to operate additional accessories. Please consult your installing retailer for more information concerning the options available.

### **PUSH-BUTTON LED RECEIVER VALET/OVERRIDE/SAFETY CONTROL SWITCH**

The Push-Button LED switch located in the receiver allows you to temporarily disable the remote starting function of the system. This is recommended whenever the vehicle is being serviced.

#### **To place the system in the service mode:**

- 1) With the system disarmed/unlocked, and the ignition switch off, Press and Hold the Push-Button, found on the windshield receiver, in.
- 2) Turn the ignition switch on, off, on, off, on, off.
- 3) The LED begins to flash two short flashes followed by one long flashes and continues this pattern until returned to normal mode of operation.

This means the unit into the R/S Override mode indicating that the remote start is in the service mode and will not start from RF or any other input Car Connection, Car Link or otherwise.

#### **To exit the service mode:**

- 1) With the system disarmed, Press and Hold the Push-Button, found on the windshield receiver, in.
- 2) Turn the ignition switch on, off, on, off, on, off.
- 3) The LED turns off indicating that the R/S unit is fully functional one again.

### **TURBO TIMER MODE**

This system provides a means to cool down the vehicles turbo charger, if so equipped, by allowing the vehicle to continue to run for a prescribed period of time every time the vehicle's engine is turned off. This feature requires the system to be set up for turbo timer during installation. Consult with your installation center to be certain this feature was activated

and how long the vehicle will continue to run, 3, 5, or 10 minutes after the ignition switch is turned off.

#### **TO ACTIVATE THE TURBO TIMER**

Anytime the ignition key is in the on position for more than 15 seconds:

- 1) Place the gear selector in park.
- 2) Set the parking, (hand), brake.
- 3) Be certain your foot is off the brake pedal.
- 4) Press the receiver's program/Push-Button switch 2 times within 5 seconds. The parking lights will flash two times indicating the mode was successfully entered.

If your parking lights flashed four times, this indicates the turbo mode was on and is now turned off.

With the turbo timer mode selected on, after you've arrived at your destination, while the engine is still running, set the parking brake, pause 2 seconds, then turn the ignition switch to the off position. The engine will continue to run the allotted time according to the selection during installation.

If you do not want the vehicle to continue to run for one cycle, simply step on the vehicle's brake, release the parking brake, or activate the transmitter's start button two times in succession.

Any of these will cause the engine to turn off.

#### **REMOTE STARTING THE VEHICLE**

The system WILL NOT start the vehicle if any one of the following conditions exists:

1. The Vehicle Hood Is Opened.
2. The Gear Selector Is In Any Gear Other Than Park.
3. The Brake Is Depressed.
4. The System is in the remote start override mode.

**WARNING!** Be certain that the vehicle is outdoors before using this or any remote vehicle 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 the car is garaged.

#### **TO REMOTE START THE VEHICLE**

Press and release the trunk/key button of your keychain transmitter two times within 2 seconds.

The vehicle will start and remain running for the pre-programmed time selected.

As a visual indication, the parking lights will flash or turn on dependent on the programming set up by your installation center.

When using the LED transmitter, the LED along side the start button will flash every 10 seconds while the vehicle is running under control of the remote start.

When you arrive at your vehicle, unlock it with the key or by pressing and releasing the unlock button of your keychain transmitter.  
Enter the vehicle and turn the ignition key to the on position.

**CAUTION!** Do not turn the key to the start position. This will cause the starter motor to engage with the already running engine which could result in damage. Step on the brake pedal to disengage the remote start unit. The vehicle will continue to run but now on it's own power.

**NOTE:** The engine will stop running before the expiration of the pre-programmed run timer or if you complete any of the following:

1. Press and release the trunk/key button of your keychain transmitter two times within 2 seconds.
2. Depress the brake pedal.
3. Open the hood.
4. Place the system in Remote Start Override Mode
5. Race the engine to above 4000 RPM.



### **OPERATING ON AUTOMATIC START UP TIMER MODE**

The system has the ability to automatically start the vehicle every 2 or 4 hours over 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.

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

### **TO BEGIN THE AUTOMATIC START UP TIMER**

1. Turn the ignition key on then off.
2. Within 10 seconds, activate the RF start command two times. (Push the second channel button of your keychain transmitter 4 times).

The parking lights will flash 4 times indicating the timed start mode is activated.

The vehicle, on a 2 or 4 hour interval basis, will automatically start, run for the pre-programmed run time, then shut off.

This will continue for 48 hours.

**NOTE:** The automatic start up timer can also be initiated from the keychain transmitter.

To do this:

1. Start the vehicle using the keychain transmitter by pressing and releasing the trunk/key button transmitter button 2 times.
2. Shut off the vehicle using the keychain transmitter by pressing and releasing the trunk/key transmitter button 2 times.
3. Within 10 seconds of step 2, activate the RF start command two times. (Push the trunk/key button of your keychain transmitter 4 times).

The parking lights will flash and the siren will chirp 4 times indicating the timed start mode is activated.

#### **CANCELING THE AUTOMATIC START UP TIMER**

To cancel the automatic start up timer do one of the following;

1. Start the vehicle manually with the use of the ignition key and depress the brake pedal.
2. Remote start the vehicle using your keychain RF transmitter.
3. Shut off the vehicle using the keychain transmitter by pressing and releasing the trunk/key transmitter button 2 times.

#### **TELEMATIC UPGRADE:**

This system has the ability to have a telematic upgrade module connected to it. This is an upgrade that can give you control of certain functions of your vehicle from a Telephone, or in some cases a computer interface. Please check with your installation center for most recent Telematic Upgrades. If you had a Telematic Upgrade installed, the manual supplied with the upgrade unit will provide a operators manual advising of the features of the system and means available to control these features of your vehicle.

#### **PROGRAMMED TRANSMITTER NOTIFICATION (PTN)**

Every time after Disarm when the ignition key is turned on, the unit's LED will report the number of transmitters programmed into the system. This safety feature will alert you if an unauthorized transmitter has been programmed into your vehicle's security system without your knowledge. Typical from the factory, there will be a 2 flash, pause, repeated 3 times indicating that two transmitters are programmed into the system. If you note additional flashes, there may have been an additional transmitter added without your knowledge or authorization. If you notice a change in the transmitter LED report pattern, you can correct this by looking up how to erase and reprogram your transmitters found in the transmitter programming guide. This reprogram operation will erase all unauthorized or unwanted transmitters.

### Programming New Or Replacement Transmitters (BANK 1)

#### Transmitter Model Name Are Found On Back Of The Transmitter Case. Batteries CR2032 Are Also Indicated There

- 1) Turn the ignition key to the on position.
- 2) Press and release the valet/programming switch 3 times (Horn Beeps).
- 3) Press the Lock Button of each transmitter you want programmed until you hear a chirp from the horn or the parking lights flash.
- 4) Turn the ignition switch off.

The above action programs the Lock, Unlock, Start/Trunk, and Option 1 buttons which are typical for most systems.

For additional channel programming beyond the option 1 button, you can use any unused button or combination of buttons not in use.

In other words, to access option channel 5, 6, 7, you would do the following:

From step 3 above:

- a) Press and release the valet/programming button 4 additional times to get to channel 5, then Press any unused transmitter button or button combination to program.
- b) From a, press and release the valet/programming button 1 time to get to channel 6, then press any unused transmitter button or button combination to program.
- c) From b, press and release the valet/programming button 1 time to get to channel 7, then press any unused transmitter button or button combination to program.

**Note:** Not all systems have channels above 3, check with your installation center for options your system may or may not have.

**Note:** Certain systems have the ability to utilize channels 6 & 7 for driver priority programming. For driver priority, the vehicle must be equipped with this feature, and the optional feature must be set up and installed by your installation center. Once this feature is added when the unlock button of transmitter 1 is used, it will set driver 1 priority, and when the unlock button of transmitter 2 is used it will set driver 2 priority. In this situation, the unlock button can be programmed into two receiver channels, unlock, channel 2 and driver priority 6 or 7. In no other

circumstance will the system allow a transmitter button to be programmed into 2 receiver channels at the same time.  
This remote has the ability to operate 2 Prestige Alarms From A Single Transmitter. To toggle on and off vehicle one or two,,  
Press the Trunk/Key button + the Lock button for 5 seconds.  
The LED flashes 2 times. Release the buttons, to select 2nd vehicle mode.  
Program this transmitter into the second vehicle's system. Any time you are in 2nd vehicle when the transmitter is operated, the LED will flash twice for each function. When in in the prime vehicle mode, the LED will flash once for each function.

**Transmitter Battery Replacement**

- 1) Remove the 00 Phillips head screw from the rear case.
- 2) Separate the case halves by inserting a small plastic tool in the top right slot.
- 3) Carefully slide the CR2032 from the 155SP, or the two 2025's for the 15BER-15SP battery or batteries out from under the battery clip and dispose of properly.
- 4) Insert fresh batteries with the (+) side up away from the PCB.
- 5) Close the case in reverse of disassembly.

**FUNCTION SETTING CHART**

**To be completed by installer:**

- Door Lock Timer     1 Sec.       3.5 Sec.       1 Sec/Dbl 1 Sec.
- Parking Lights     Steady       Pulsed
- Run Time           \_\_\_\_\_ Minutes
- Accy Lock           On             Off
- Accy Unlock        Dr. Door     All Doors     Off

**NOTE:** Two step unlock is an option and may not have been installed.

**To purchase replacement transmitters  
or to get additional product information go to:  
[www.prestigecarsecurity.com](http://www.prestigecarsecurity.com)**

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