



**AUDIOVOX®**  
ELECTRONICS CORP.

## **Model AA-RS20CS**

Owner's Manual

### **3 Button Remote Start Security System With Plug-In Shock Sensor & Starter Disable**

#### ***FEATURES:***

- 2 Three Button Programmable RF Transmitters
- Four Channel Code Learning Receiver
- Anti Code Grabbing Technology
- Remote Panic In All Modes
- Protected Valet/Override
- Remote Start Safety Control Switch
- Safe Start RF Control (Double Push Of RF Transmitter)
- Selectable Automatic Timed Start Mode
- 7 Function LED, Arming, Armed, Disarmed, Valet, Zones 1, 2, & 3
- Intrusion Alert With Memory
- Audible Arm, Disarm, Defect Zone, And Intrusion Indications
- Instant Siren Activation All Entry Points
- Starter Disable When Armed
- True Last Door Arming
- Defective Zone By-Pass
- On Command RF Chirp Delete
- 6 Tone Multi-Tone Siren
- Two Stage Shock Sensor
- Selectable Run Time 10 or 15 Minutes

#### ***OPTIONS:***

- Remote Trunk Release
- Remote Keyless Entry
- Illuminated entry
- Remote Power Window Control
- Remote Garage Door Interface
- 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 AA-RS20CS Remote Start Alarm System has many features and available options some of which are selected at time of installation. For your reference, the list on the back page of this manual show what features and options have been installed. Consult your installing dealer for options that may have been installed and are not listed.



#### **ARMING THE SYSTEM - ACTIVE:**

1. Turn the engine off, exit the vehicle, and close all doors, hood and trunk.
2. Press and release transmitter button 1 one time.

The parking lights will flash once, the siren will chirp once, and the dash mounted LED will begin to flash slowly confirming the system is armed. If you have the optional door lock/unlock circuit installed, the doors will lock.

**Note:** If the siren chirped three times, then you have left a door, hood, or trunk ajar. Simply closing that opening will provide full protection. If the siren did not sound when arming, then the chirps have been turned off. Refer to the section on "Eliminating the Arm/Disarm Chirps" shown later in this manual.

#### **SILENT ARMING - ACTIVE:**

1. Turn the engine off, exit the vehicle, and close all doors, hood and trunk.
2. Press and hold transmitter button 1 for two seconds.

The parking lights will flash once, and the dash mounted LED will begin to flash slowly confirming the system is armed. The siren will not chirp. If you have the optional door lock/unlock circuit installed, the doors will lock.

**Note:** If the siren chirps three times, then you have left a door, hood, or trunk ajar. Simply closing that opening will provide full protection.

#### **ARMING THE SYSTEM - PASSIVE (AUTOMATIC)**

If the passive arming feature has been selected:

1. Turn the engine off, exit the vehicle, and close all doors, hood and trunk.

The dash mounted LED will begin to flash rapidly indicating that the 30 second passive arming timer has begun. If the LED does not begin to flash rapidly, then you have left a door, hood, or trunk ajar. Closing this entry point will allow the arming cycle will begin. If any entry point is opened during the 30 second arming cycle, arming will be suspended. When all entry points are closed, the arming cycle will begin again.

At the end of the 30 seconds, The parking lights will flash once, the siren will chirp once, and the dash mounted LED will begin to flash slowly confirming the system is armed. If the siren did not sound when arming, then the chirps have been turned off. Refer to the section on "Eliminating the Arm/Disarm Chirps" shown later in this manual. Passive door locking is a selectable feature. If you have the optional door lock/unlock circuit installed, the doors may or may not lock passively dependent upon the setup during installation.

#### **PROTECTION WHILE THE SYSTEM IS ARMED:**

Opening any protected entry point, hood, trunk, or doors will cause the alarm to trigger immediately. The siren will sound and the parking lights will flash for 30 seconds, then stop and continue to monitor all protected entry points. If the thief left the door opened, the unit will sound for six 30 second cycles than shut down, isolate the triggered zone and

continue to protect all other zones.

Whenever the system is armed, the dash mounted LED will slowly flash. This serves as a visual deterrent to a potential thief. This LED is a very low current light emitting diode, and will not cause the battery to drain even if left unattended for long periods of time.

Whenever the system is triggered, the vehicle parking lights will flash for the full siren sounding period. Optional - whenever the system is triggered, the interior courtesy light will flash for the full siren sounding period.

Whenever the system is armed, the vehicle starter circuit is disabled, even with the ignition key the vehicle will not start.

Whenever the system is armed, any strong impact to the vehicle will cause the shock detector to trigger the alarm. Any lesser impact will cause the pre-detect stage of the shock sensor to emit a few short series of warning tones from the siren.

#### **DISARMING THE SYSTEM**

As you approach the vehicle, press and release transmitter button 1 one time.

The parking lights will flash two times, the siren will chirp twice, and dash mounted LED will turn off.

If you have the optional door lock/unlock circuit installed, the doors will unlock. If you have the optional entry illumination circuit installed, the interior light will turn on for 30 seconds or until the ignition key is switched on.

**Note:** If the passive arming mode was selected at time of installation, the dash mounted LED will start flashing rapidly indicating that the system is rearming. Opening any door will suspend the automatic arming.

If the parking lights flashed three times, and the siren chirps four times, this indicates that the alarm system had been triggered in your absence. Before turning on the ignition key, examine the dash mounted LED's flash pattern. The number of flashes identifies the triggered zone. For additional information, refer to INTRUSION WARNING SIGNALS found later in this manual.

If the siren did not sound upon disarm, then the chirps have been turned off. Refer to the section titled ELIMINATING THE ARM/DISARM CHIRPS.

#### **SILENT DISARMING**

1. As you approach the vehicle, press and hold transmitter button 1 for two seconds.

The parking lights will flash twice, and the dash mounted LED will turn off confirming that the system is disarmed. The siren will not chirp. If you have the optional door lock/unlock circuit installed, the doors will unlock. If you have the optional entry illumination circuit installed, the interior light will turn on for 30 seconds or until the ignition key is switched on.

**Note:** If the passive arming mode was selected at time of installation, the dash mounted LED will start flashing rapidly indicating that the system is rearming. Opening any door will suspend the automatic arming.

If the parking lights flashed three times, and the siren chirps four times, this indicates that the alarm system had been triggered in your absence. Before turning on the ignition key, examine the dash mounted LED's flash pattern. The number of flashes identifies the triggered zone. For additional information, refer to INTRUSION WARNING SIGNALS found later in this manual.

#### **INTRUSION WARNING SIGNAL**

This system will inform you if an intrusion attempt has occurred while you were away from the vehicle. Upon disarm, the siren will chirp 4 times and the parking lights will flash 3 times. Enter the vehicle and before turning on the ignition switch, observe the LED flash pattern.

If the LED flashes one time...pause, one time...pause etc., then an intrusion attempt was made by impact or a strong vibration that the shock sensor detected. Check the vehicle for possible damage to the glass or body panels.

If the LED flashes two times...pause, two times...pause etc., then an intrusion attempt was made to open the hood, trunk, or by an accessory triggering device. Check the vehicle for indications of forced entry to these openings.

If the LED flashes three times...pause, three times...pause etc., then an intrusion attempt was made to the vehicle doors. Check all doors for indications of forced entry.

**Note:** The LED intrusion warning indications are stored in the system's memory and will be erased when the ignition switch is turned on.

#### **VALET/SYSTEM OVERRIDE SWITCH**

The valet switch allows you to temporarily by-pass all alarm functions, eliminating the need to hand your keychain transmitter to parking attendants or garage mechanics. When the system is in the valet mode, all alarm functions are by-passed, however the remote panic feature, and the optional remote door lock/unlock will remain operational. To enter the valet mode:

1. Start with the valet switch in the "off" position
2. Turn the ignition switch to the "on" position.
3. Within 10 seconds of step 2, flip the valet switch to the "on" position.

The dash mounted LED will turn on solid indicating that the valet mode has successfully been entered.

To return to the normal, (alarm mode), operation, move the valet switch to the "off" position any time the ignition switch is in the on position.

**Note:** In the event that you lose your keychain transmitter or the transmitter fails to operate the alarm system, the valet switch can be used to disarm the alarm. To disarm the alarm:

1. Open the door with the vehicle door key. (The siren will sound)
2. Turn the ignition switch to the on position.
3. Flip the valet/override switch to the on position.

The system will disarm and the vehicle can be operated normally.

Always remember to move the valet switch to the off position to ensure the vehicle remains protected at all times.

#### **ELIMINATING THE NORMAL ARM/DISARM CHIRPS**

You can selectively eliminate the normal arm & disarm chirps by holding the transmitter button slightly longer when arming and disarming. This will prevent the siren chirps for one arm or disarm cycle. If you find this inconvenient and wish to eliminate these chirps permanently,

1. Start with the valet switch in the off position.

2. Turn the ignition switch on then off.
3. Within 10 seconds of turning off the ignition, flip the valet switch on, off, on, off, on, off.
4. If the chirps were on before you started, the siren will emit 2 short chirps indicating that the chirps are now off. If the chirps were off before you started, the siren will emit one short chirp indicating that the chirps are now on.

#### **REMOTE PANIC OPERATION**

The arm/disarm button of your keychain transmitter also serves as a panic switch and will turn the alarm on from the maximum operating range of the transmitter. In an emergency situation, to use the panic feature, press and hold the arm/disarm button of the transmitter for 3 seconds. This will cause the lights to flash, the siren to sound, and if the optional interior illumination circuit was installed, the interior light will flash.

To disengage the panic feature, press and release the arm/disarm button one time. If you do not shut off the panic feature, the system will time out and shut off automatically after 30 seconds.

During this mode, all normal transmitter functions are operational.

#### **SAFETY (Red Handled ) CONTROL SWITCH**

The control switch allows you to temporarily disable the remote starting function of your AA-RS20CS. To disable the unit, move the red handled control switch to the off position. The control switch also allows you to select between 2 hour start up and 4 hour start up when using the automatic start up timer mode. The factory preset start up time for this mode is every 4 hours. To select between 2 or 4 hour start up timer:

1. Begin with the control switch in the on position
2. Turn the ignition switch on then off
3. Within 10 seconds, move the control switch off, on, off, on (2 switch cycles) to select a 2 hour start timer.

The parking lights will flash, and the siren will chirp 2 times confirming that the two hour start cycle is set. Or, within 10 seconds move the control switch off, on, off, on, off, on, off, on (4 switch cycles) to select a 4 hour start timer. The parking lights will flash, and the siren will chirp 4 times confirming that the 4 hour start timer is set.

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

The AA-RS20CS 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 Safety Control Switch Is In The Off Position.

**CAUTION!** 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 channel 2 of your keychain transmitter two times within 2 seconds. The vehicle will start and remain running for the pre-programmed 10 or 15 minutes. As a

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

When you arrive at your vehicle, disarm the alarm system by pressing and releasing the arm/disarm 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 if you complete any of the following:

1. Press and release channel 2 of your keychain transmitter two times within 2 seconds.
2. Depress the brake pedal.
3. Open the hood.
4. Move the red handled control switch to the off position.
5. Race the engine to above 4000 RPM.

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

The AA-RS20CS 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 fumes 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 transmitter button with the KEY icon on it 4 times).

The parking lights will flash and the siren will chirp 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 time (10 or 15 minutes), and 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 transmitter button 2 two times.
2. Shut off the vehicle using the keychain transmitter by pressing and releasing transmitter button 2 two times.
3. Within 10 seconds of step 2, activate the RF start command two times. (Push button 2 four 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.

### ADDITIONAL REMOTE FUNCTION CHANNEL 2

The system has an additional feature, ( Channel 2 ),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 Close
- ☐ Remote Garage Door Interface

To operate the accessory associated with channel 2, press and hold transmitter button 2 for four seconds.

**NOTE:** The feature that has been added to channel 2 will always be operated using the same transmitter button that controls the remote start unit. There is no way to move the channel 2 function to a different channel.

### ADDITIONAL REMOTE FUNCTION CHANNEL 3

The system has an additional feature, ( Channel 3 ),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 Close
- ☐ Remote Garage Door Interface

To operate the accessory associated with channel 3, press and release transmitter button 3.

**Note:** The channel 3 output will remain active for as long as the transmitter button(s) are held. Certain accessories may take advantage of the extended output capability of this channel. Check with your installation center for operation of the accessory that may be connected to channel 3.

### FEATURE AND FUNCTION SETTINGS

To Be Completed by Installing Technician

	Settings		Transmitter Button(s)			
Remote Start Function	<input type="checkbox"/> 1 Sec	<input type="checkbox"/> 3.5 Sec				
Door Lock Time	<input type="checkbox"/> Pulse	<input type="checkbox"/> Steady				
Parking Lights	<input type="checkbox"/> 10 Min	<input type="checkbox"/> 15 Min.				
Run Time	<input type="checkbox"/> On	<input type="checkbox"/> Off				
Remote Activation Chirp						
Remote Alarm Function						
Arm/Disarm	<input checked="" type="checkbox"/> Channel 1	N.A.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> Other .....
Auto Door Lock	<input type="checkbox"/> On	<input type="checkbox"/> Off				
Auto Door Unlock	<input type="checkbox"/> On	<input type="checkbox"/> Off				
Passive Lock	<input type="checkbox"/> On	<input type="checkbox"/> Off				
Passive Arm	<input type="checkbox"/> On	<input type="checkbox"/> Off				
Remote Trunk Release	<input type="checkbox"/> Channel 2	<input type="checkbox"/> Channel 3	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> Other .....
Remote Window Close	<input type="checkbox"/> Channel 2	<input type="checkbox"/> Channel 3	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> Other .....
Remote Garage Interface	<input type="checkbox"/> Channel 2	<input type="checkbox"/> Channel 3	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> Other .....

**AA-RS20CS**  
**SYSTEM FUNCTIONS AT A GLANCE**

**ALARM DASH LED INDICATORS**

RAPID FLASHING	=	PASSIVE ARMING
SLOW FLASHING	=	ARMED
OFF	=	DISARMED
ON SOLID	=	VALET MODE
3 FLASH... PAUSE	=	INTRUSION ZONE 3
2 FLASH...PAUSE	=	INTRUSION ZONE 2
1 FLASH...PAUSE	=	INTRUSION ZONE 1

**ALARM SIREN CHIRP INDICATION**

1 CHIRP*	=	ARM
2 CHIRPS*	=	DISARMED
3 CHIRPS	=	ARMING WITH ENTRY POINT OPENED
4 CHIRPS	=	DISARM AFTER INTRUSION
5 CONTINUOUS	=	TRIGGERED/PANIC

**ALARM PARKING LAMP INDICATIONS**

1 FLASH	=	ARM
2 FLASH	=	DISARM
3 FLASH	=	DISARM AFTER INTRUSION
CONTINUOUS FLASH	=	TRIGGERED/PANIC

**REMOTE START SIREN INDICATIONS**

1 LONG/1SHORT	=	RF START COMMAND ISSUED (IF SELECTED ON)
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**REMOTE START PARKING LAMP INDICATIONS**

1 FLASH	=	RF START COMMAND ISSUED
ON	=	RUNNING UNDER REMOTE START CONTROL (IF SELECTED)
CONTINUOUS FLASH	=	RUNNING UNDER REMOTE START CONTROL (IF SELECTED)