



AUDIOVOX™
CORPORATION

Model AS9233ST **OWNER'S MANUAL**

Remote Start Alarm Keyless Entry Upgrade System

Congratulations on your purchase of this automotive Remote Start / Alarm Keyless Entry Upgrade System. This system is a state - of - the - art system designed to arm and disarm when it receives a lock or unlock command from your existing Factory Keyless Entry Transmitter. Taking a few moments to read this manual will help to ensure that your vehicle is protected at all times.

NOTE:

The system has the ability to beep the vehicle's horn, sound a siren, or both. Where a beep or chirp is mentioned, consider either or both may sound.

Also All functions of the system will be controlled by the factory transmitter, including the start sequence however for optimum range, it is suggested that the one button transmitter supplied be used for starting, and unlocking while running under control of the the remote start.

ARMING THE SYSTEM: (ACTIVE)

1. Turn the ignition key off, exit the vehicle, and close all doors.
2. Press and release the Lock button on the keychain transmitter.
3. The siren and or horn will beep one time, the parking lamps will flash one time, and the LED found on the glass mounted receiver will begin to slowly flash, indicating that the system is ARMED.

If the siren/horn sounds 3 chirps, then you have left a door, trunk, or hood lid ajar. Simply close the opened entry point to provide full protection. If the siren "chirped" three times, sometime after arming, the exclusive delayed dome light learn circuit has been programmed and the system detected a open entry point after the learned delay expired. Again, closing the hood, trunk, or doors will correct the problem and you do not need to disarm the system to make the correction. If the siren/horn did not sound when arming, then the chirps have been turned off, and you should refer to the section titled "ELIMINATING THE ARM / DISARM CHIRPS " in this manual.

4. Any time the door lock switch in the vehicle is used to lock the doors while the ignition key is turned off, the system will immediately arm. To lock the doors after entering the vehicle, make sure the ignition key is switched on first. Turning the ignition key on first will stop the system from arming.

ARMING THE SYSTEM: (PASSIVE)

1. Turn the ignition key off, exit the vehicle, and close all doors.
2. The LED will begin to flash rapidly, indicating that the system is automatically (passively) arming. As an added convenience, the 30 second automatic passive arming will not begin until all doors are closed, allowing passengers to exit the vehicle at their convenience.
3. In 30 seconds, you will hear a single short chip from the siren, and the vehicle's parking lamps will flash one time, indicating that the system has ARMED. At this time, the dash mounted PRLED will begin to flash slowly, providing a visual indication that the system is fully armed.
4. It is possible to program the system, that when the alarm is allowed to automatically passive arm, there will be a 15 second delay after a door is opened before the alarm will sound. However, if the system is programmed for instant trigger there will be no delay. Check with your installer for the setting of this feature.

IMPORTANT! When the system is programmed for passive arming, the system will always arm, even when the keychain transmitter has not been used to lock the doors.

When you leave the vehicle, and a door has been left opened, the system will arm after 10 minutes. If you plan to vacuum the car, or if service work is being performed, either leave the key in the ignition and switched to the on position, or put the system into valet mode. If you do not do this, the system will arm in 10 minutes, and you may inadvertently trip the alarm.

PROTECTION WHILE THE SYSTEM IS ARMED:

1. Opening any door, hood, or trunk will cause the alarm to immediately sound. The alarm will continue to sound for 30 seconds, then stop and automatically rearm the vehicle. If the potential thief left a door opened, the alarm will sound for three more 30 second cycles, then re - arm and ignore the opened door zone.
2. Whenever the system is armed, the on glass receiver's LED indicator will slowly flash. This serves as a visual deterrent to the potential thief. The LED is a very low current bulb, and will not cause the vehicle's battery to drain, even when the vehicle is left unattended for extended periods.
3. Whenever the system is triggered, the vehicle's parking lights will flash for the 30 second alarm cycle, attracting added visual attention to the vehicle.
4. Whenever the system is armed, the vehicle's starter will be disabled. The vehicle will not start.

DISARMING THE SYSTEM:

1. As you approach the vehicle, press and release the unlock button on the keychain transmitter.
2. The siren and or horn will beep two times, the parking lamps will flash two times, and the on glass receiver's LED will turn off, indicating that the system is DISARMED. If the optional entry illumination feature has been installed, the vehicle's interior lights will turn on for 30 seconds, or until the ignition key is turned on.

NOTE: If your system has been programmed for " passive arming ", then it will begin to re-arm immediately after disarming. This is indicated by a rapid flashing of the on glass receiver's LED. Opening one of the vehicle's doors will suspend the passive arming process until all doors have been closed, or until the ignition key has been turned on.

INTRUSION WARNING SIGNALS:

The system will inform you if an intrusion attempt has occurred while you were away from the vehicle. If an intrusion attempt has occurred, the siren and or horn will beep four times when the system is disarmed. The vehicle's parking lights will also flash three times to indicate an intrusion has occurred.

Enter the vehicle and observe the on glass receiver's LED for further information.

1. If the LED is flashing one time...pause...one time...pause...etc., then an intrusion attempt was made to a voltage sensing, light activated entry point, or to an optional sensor that has been connected to zone 1.
2. If the LED is flashing two times...pause...two times...pause...etc., then an intrusion attempt was made to the hood or trunk, or to an optional sensor that has been connected to zone 2.
3. If the PRLED is flashing three times...pause...three times...pause...etc., then an intrusion attempt was made through one of the vehicle's doors.

These intrusion warning indicators are stored in the system's memory, and will only be erased when the ignition key is turned to the " on " position.

OPERATING THE EMERGENCY PANIC:

The buttons on your keychain transmitter will allow you to immediately activate the alarm in emergency situations. To use the remote panic switch;

1. Press the unlock, then lock, then unlock buttons on your keychain transmitter

within 3 seconds. The alarm will immediately sound, and continue to sound for 30 seconds.

2. To stop the alarm before the 30 second cycle has expired, simply press and release the unlock button on your keychain transmitter.

NOTE: If the factory system has a panic mode, it is suggested that the factory panic feature be used instead of the PRO9233ST to prevent any potential problem of turning off the panic mode.

USING THE VALET SWITCH :

The valet switch allows you to temporarily bypass all alarm functions, eliminating the need to hand your transmitter to parking attendants or garage mechanics. When the system is in valet mode, all alarm functions are bypassed, however the remote panic feature and remote door locks will remain operational. To use the valet mode, the system must first be disarmed either by using your keychain transmitter, or by overriding the system as explained in the Manual Override Section of this manual.

TO ENTER THE VALET MODE:

1. Disarm the unit by use of the factory transmitter or by use of the manual override sequence.
2. Turn the ignition switch to the "On" position.
3. Press and hold the pushbutton switch found on the glass mounted receiver assembly for 5 seconds, until the LED turns on, indicating valet mode has been successfully entered.

TO EXIT VALET:

With the ignition switch in the on position, press and release the pushbutton switch one time . The LED turns off indicating the valet mode has successfully been exited.

MANUALLY OVERRIDING YOUR SYSTEM:

USING SIMPLE VALET SWITCH MANUAL OVERRIDE

If your factory transmitter is lost, broken, or otherwise rendered inoperable your Security System can be disarmed without the use of the keychain transmitter. This is necessary, since you will need the ability to operate your vehicle if the transmitter is lost or its battery fails. If your system has been selected for Valet Switch manual override as indicated on the last page of this manual, to override the alarm system;

1. Open the vehicle door. The alarm will sound.
2. Turn the ignition key to the on position.
3. Within 5 seconds, press and hold the valet pushbutton switch found on the glass mounted receiver.

The alarm system will stop sounding and enter the (bypassed) mode. You can now start and operate the vehicle normally.

Typically this override mode is used only if the transmitter has become inoperative.

USING CUSTOM CODE MANUAL OVERRIDE:

If your factory transmitter is lost, broken, or otherwise rendered inoperable, your system can be overridden allowing operation of the vehicle. The manual override code is pre-programmed at the factory to 11. This code can be changed by the operator to a more familiar two digit number. Once you've become familiar with the system's operation and override procedure, we suggest you change the code for added security.

NOTE: The override procedure below describes use, assuming that the factory preset code has not been changed and is still set to the factory default 11. The on glass receiver's LED valet/override push button switch is used to enter the tenths and units digits, pressing and releasing this button one time for each digit required.

If your system has been selected for Custom Code manual override as indicated on the last page of this manual, to bypass the alarm system; with a code of 11, follow the sequence listed below:

1. The LED is flashing indicating the unit is armed, enter the vehicle, the siren will sound, turn the ignition switch to the "on" position.

2. Within 10 seconds begin to enter tenths digit of override code. (In this example the code is 11, so press and release the push-button switch found on the glass mounted receiver assembly one time).
3. Within 10 seconds of entering the last tenths digit, turn ignition "off then on".
4. Within 10 seconds of turning the ignition switch on, begin to enter units digit of override code. (In this example the code is 11, so press and release the push-button switch found on the glass mounted receiver assembly one time).
5. Within 5 seconds after the last units digit is entered, turn the ignition switch off, then on, and start your vehicle.

If the manual override code is entered properly, the unit stops sounding, the LED turns off, indicating a successful override. The system is now disarmed and you can start and operate your vehicle. The unit will allow three attempts to disarm via the manual override sequence. If the code is not successfully entered within the three attempts, disarming with the manual override switch will be locked for 10 minutes.

In many cases, to increase the security of your system, you may elect to change the manual override code to a number that is more familiar to you, or simply to have a different code than was pre-assigned from the factory. To Change the pre-assigned override code follow the steps outlined below.

It is advised you read both sections under the headings "Programming Your Custom Override Code" and, "Custom Code Programming Example", To completely understand the procedure before beginning:

Programming Your Custom Override Code:

Unlike override switches easily found, and defeated, this system allows the consumer to program a personal override code, offering a higher level of security. The system comes from the factory with a pre-programmed override code of 11. To change this default override code, do the following:

1. Disarm the system by use of the transmitter, or by use of the emergency override sequence. Turn the ignition switch to the on position.
2. Within 10 seconds, press and release the push-button switch found on the receiver assembly 3 times.
3. Within 10 seconds turn the ignition switch off, on, off, on, off, on.
(The siren or horn will beep and the lights will flash one time.)
4. Within 10 seconds, begin to enter your chosen 10ths digit by pressing and releasing the push-button switch from 1 up to 9 times.
5. Within 10 seconds of the last entered 10ths digit, turn the ignition switch off then on.
6. Within 10 seconds, begin to enter your chosen units digit by pressing and releasing the push-button switch from 1 up to 9 times.
7. Finish by turning the ignition switch to the off position.

If the new code was accepted, the unit will report back the newly entered code, by flashing the LED, first indicating the 10ths digit, pause and then the units digit. The unit will report the new code three times with a one second pause between each code, then the system will begin arming. If the LED flash pattern reports the previously stored code, the new code was not entered correctly. Please repeat steps 1 through 7 above considering the following.

NOTE: Acceptable digits 10ths or units are 1 through 9. The unit will not recognize a 0 (Zero), or no digit entered in any place, units or tenths.

NOTE: If 15 seconds of inactivity expire, or if the ignition switch is turned off for more then 5 seconds during any of the above steps, the unit will revert back to the last successfully stored code.

Custom Code Programming Example:

To Change the code from the factory pre-assigned code of 11 to "52" you would do the following:

1. Disarm the system by use of the transmitter, or by use of the emergency override sequence.

2. Turn the ignition switch to the on position.
3. Within 10 seconds, press and release the push-button switch found on the receiver assembly 3 times.
4. Within 10 seconds turn the ignition switch off, on, off, on, off, on.
(The siren or horn will beep and the lights will flash one time.)
5. Within 10 seconds, begin to press and release the push-button switch to set the tenths digit.
(As per the example, press and release 5 times to set the tenths digit to 5)
6. Within 10 seconds of the last press of the push-button, turn the ignition switch off then on.
7. Within 10 seconds, begin to press and release the push-button switch to set the units digit.
(As per the example, press and release 2 times to set the units digit to 2).
8. Turn the ignition switch to the off position. Immediately observe the LED flash pattern.

You will note the LED flashing five times, pause, and then flash two times, pause. This pattern will be repeated three times indicating the new code (52) has been accepted and stored in memory.

NOTE: If after step 7, the LED flashes a code other than what was just entered, this indicates that the code has not been changed. You will have to repeat steps 1 through 7 above being certain to note the following:
Acceptable digits 10ths or units are 1 through 9. The unit will not recognize a 0 (Zero), or no digit entered in any place, units or tenths.

NOTE: If 15 seconds of inactivity expire, or if the ignition switch is turned off for more than 5 seconds during any of the above steps, the unit will revert back to the last successfully stored code.

OPTIONAL IGNITION LOCK/UNLOCK FEATURE:

If your existing factory installed keyless entry system did not include an ignition on/off door lock and unlock feature, this feature can be activated from this upgrade system. When this accessory has been added, any time the ignition key is turned to the on position *and* all vehicle doors are closed, the doors will lock in 4 seconds. Additionally, any time the ignition key is turned to the off position, the doors will unlock.

ELIMINATING THE ARM / DISARM CHIRPS:

The normal arming and disarming confirmation chirps can easily be turned off using the valet pushbutton switch found on the glass mounted receiver assembly. To do this;

1. Turn the ignition key on, and then off.
2. Within 10 seconds of turning the ignition key off, press and release the push-button valet/override switch 3 times.
3. a. If, before proceeding with step 1, the chirps were on, then you will hear 2 chirps to indicate that the chirps have been turned off.
b. If, before proceeding with step 1, the chirps were off, then you will hear 1 chirp to indicate that the chirps have been turned on.
4. Whenever power to the system has been disconnected (for repair or service to the vehicle), the chirps will be activated when the power is re - connected.
To turn the chirps off, simply execute steps 1 through 3 above.

NOTE: Whenever the Arm/Disarm chirps are bypassed, the 3 chirp defective zone and the 4 chirp intrusion indicator will continue to operate. This feature will always warn you if a door was left ajar when arming, or the vehicle was tampered with in your absence.

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 glass mounted push-button safety control Is In The Remote Start By-Pass mode.

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 the button of your Remote Start transmitter two times in succession to activate the remote start system. The vehicle will start and remain running for the pre-programmed 5, 10, 15, 20, 45, or 60 minutes. As a visual indication, the parking lights will flash or turn on as pre-selected by your installation center at time of installation. You may also start the vehicle with the factory transmitter by pressing lock, unlock, lock in succession.

When you arrive at your car, unlock the vehicle by pressing and releasing the unlock button of your factory keychain transmitter, or pressing and holding for 3 seconds the start button of the single button start transmitter supplied with this kit. Enter the vehicle and turn the ignition key to the on but NOT START position.

NOTE: The system may have been configured to allow start by pressing the transmitter start button once instead of twice. Please consult your installation center as to the configuration of your particular system.

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 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. Pressing the button of your Remote Start transmitter two times in succession while running under control of the remote start system will turn the vehicle off.
2. Depress the vehicles brake pedal.
3. Opening of the the hood.
4. Raging the RPM of the engine to above 4000.

NOTE: If the vehicle is running under control of the remote start unit, and the transmitter button is operated a second two times in succession, the vehicle will immediately turn off.

Also note, if this option is installed, as you approach the vehicle while running under control of the remote start unit, the single button transmitter can be used to unlock the doors, simply press and hold the unlock button until the doors unlock.

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.

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 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 by pressing the button of the keychain transmitter four times in succession.

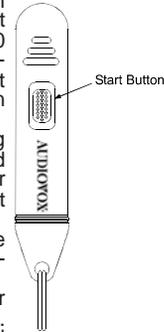
The parking lights will flash 4 times indicating the timed start mode is activated.

The vehicle, on a 2 or 4 hour interval basis, will automatically start, run for the pre-programmed time (5,10, 15, or 20 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 the remote start transmitter button two times in succession. (The vehicle will start)



2. Shut off the vehicle using the keychain transmitter by pressing and releasing the remote start transmitter button a second two times in succession.
3. Within 10 seconds of step 2, activate the RF start command two times. In other words, press and release the transmitter button 4 times in succession.

The parking lights will flash 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.
- And then shut off the vehicle using the keychain RF transmitter.

On Glass Mounted Push-Button SAFETY CONTROL SWITCH

The Push-Button LED safety control switch allows you to temporarily disable the remote starting function of the system. This recommended whenever the vehicle is being serviced. To place the system in the service mode:

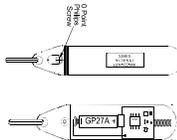
1. With the system disarmed/unlocked, and the ignition switch off Press and Hold the push-button switch found on the glass mounted receiver assembly.
2. Turn the ignition switch on, off, on, off, on, off.
3. The LED begins to flash two short flashes followed by one long flashes and continues this pattern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

This puts 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 Posse or otherwise.

To Exit R/S Override Mode

1. With the system disarmed, Press and Hold the push-button switch on.
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.

BATTERY REPLACEMENT



Your one button transmitter includes a battery #GP27a that will need to be replaced from time to time. If you notice diminished range, or if the LED on the transmitter lights dimly, the battery should be replaced. To do so:

1. Remove the 0 point philips head screw found at the lower portion in the rear of the case.
2. Carefully separate the two transmitter case halves.
3. Remove the battery noting the proper orientation/polarity of the battery. Properly dispose of the discharged battery.
4. Install the new battery being certain to correctly arrange the proper polarity.
5. Carefully close the case halves, finish by re-install the screw removed in step 1.

AS 9233ST SYSTEM FUNCTIONS AT A GLANCE

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

CHIRP INDICATORS

1 CHIRP*	ARM
2 CHIRPS*	DISARM
3 CHIRPS	ARM / DOOR OPEN
3 CHIRPS	10 MIN. PASSIVE ARM / DOOR OPEN
4 CHIRPS	DISARM / INTRUSION
2 SHORT CHIRPS - 1 LONG CHIRP	DISARM / AFTER 10 MIN.
4 SHORT CHIRPS - 1 LONG	PASSIVE ARM
	DISARM / AFTER 10 MIN.
	PASSIVE ARM AND INTRUSION

* These chirps are optional, and can be de-activated.

PARKING LAMPS

1 FLASH	ARM
2 FLASH	DISARM
3 FLASH	DISARM / INTRUSION

Your System Has These Features Activated:

- | | |
|---|---|
| <input type="checkbox"/> Starter Disable When Armed | <input type="checkbox"/> Key Activated Auto Lock/Unlock |
| <input type="checkbox"/> Passive Arming | <input type="checkbox"/> Shock Detector |
| <input type="checkbox"/> Instant Trigger | <input type="checkbox"/> Vehicle Horn |
| <input type="checkbox"/> Remote Car Starter | <input type="checkbox"/> Hardwire |
| <input type="checkbox"/> Remote Window Open | <input type="checkbox"/> Valet Override |
| <input type="checkbox"/> Remote Window Closure | <input type="checkbox"/> Custom Code Override |

Form No. 128-8604