

**Motorola AIEG**

**LS Keyless Entry Transmitter**

**Model 90584373**

**FCC ID: LHJ009**

**User' Manual**

## Parking lot

If you park in a lot where someone will be watching your vehicle, it's best to lock it up and take your keys. But what if you have to leave your ignition key?

- If possible, park in a busy, well lit area.
- Put your valuables in a storage area, like your trunk or glovebox. If your vehicle has a center arm rest storage area, put your valuables in it. Be sure to close and lock the storage area.
- Close all windows.
- Move the remote trunk release lockout lever to the "ON" position.
- Lock all the doors except the driver's.
- Then take the Saturn Security System transmitter with you.

## *SATURN SECURITY SYSTEM/*

### *REMOTE KEYLESS ENTRY (OPTION)*

#### LS keyless entry transmitter

The Saturn Security System provides both an anti-theft feature and a starter disable feature for your Saturn. You will have the ability to lock and unlock your doors or release your trunk (liftgate for the wagon) when approaching or leaving your Saturn from a distance of up to 26 ft. (8 m.) using your key chain remote transmitter supplied with the Saturn Security System.

Additional features of the Saturn Security System include active security system arming, passive security system arming (programmed in by the retailer), and illuminated entry.

The Saturn Security System consists of a receiver, which is located in your Saturn and two transmitters. The receiver can be programmed with up to four transmitters. Additional transmitters can be purchased at your Saturn retailer.

Your Saturn Security System operates on a radio frequency subject to Federal Communications Commission (FCC) Rules and Industry Canada radiocommunication regulations.

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 device complies with RSS-210 of Industry Canada radiocommunication regulations. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference received including interference that may cause undesired operation of the device.

Changes or modifications to this system by other than an authorized service facility could void authorization to use this equipment.

### *Active and Passive Arming of the Saturn Security System*

Active arming of the Saturn Security System requires you to press the "LOCK" button on your transmitter in order to arm the Saturn Security System. Passive arming of the Saturn Security System does not require you to press the "LOCK" button on your transmitter to arm the system, however, you may press the "LOCK" button on the transmitter to arm the system right away instead of waiting the one minute for the system to arm itself.

The Saturn Security System can be programmed to be in either the active arming mode or the passive arming mode. It is not possible to have both modes turned on at the same time. Your Saturn will be set to the active arming mode from the manufacturer.

Contact your Saturn retailer to program your Saturn to the passive arming mode or to turn these modes on or off. The following sections will explain how both arming modes work.

### *Active Arming of the Saturn Security System*

#### *"LOCK" (Saturn Security System Arms)*

You must press the "LOCK" button on your key chain transmitter in order to arm the Saturn Security System. When you press the "LOCK" button on your transmitter, all doors will lock, the Saturn Security System will arm automatically, and the dome lamp will flash twice. If you press the "LOCK" button again within five seconds after the first press, the horn will chirp to let you know that the Saturn Security System has armed.

If a door is open when you press the "LOCK" button, the doors will lock, but the Saturn Security System will not arm until all the doors are closed. Once the doors are closed, the Saturn Security System will arm and the dome lamp will flash twice to let you know the system is armed. The horn will not chirp even after all the doors are closed. To get the horn to chirp if a door was open during the arming process, you must press the "LOCK" button on your transmitter twice after the doors are closed.

#### **"UNLOCK" (Saturn Security System Disarms)**

When you press the "UNLOCK" button on your transmitter once, the driver side door will unlock, the Saturn Security System will disarm, and the dome lamp will come on.

If you press the "UNLOCK" button again within five seconds of the first press, the rest of the doors will unlock.

### *Passive Arming of the Saturn Security System*

#### **Lock (All Doors Lock; Saturn Security System Does Not Arm)**

When the Saturn Security System on your car is set to the passive arming mode, it will arm one of two ways. They are as follows;

- 1 In the passive arming mode, the system will arm itself in one minute after the ignition key is turned to the "LOCK" position, and you can open and shut the car door. For example, when you stop your car, turn the ignition key to the "LOCK" position, remove the key and exit the car. Immediately after you shut the door, the security system clock will begin to count down, and after one minute has passed, the Saturn Security System will arm itself. (The doors will *not* lock automatically )
2. The Saturn Security System will delay automatic arming for ten minutes after the ignition key is turned to the "LOCK" position if you do not open and close the door. For example, if you stop your car, turn the ignition key to the "LOCK" position and remove the key, but decide to sit in your car instead of getting out and closing the door, the Saturn Security System will arm after ten minutes. This is meant to give you some time to collect your things and exit the car without setting off the alarm.

When in the passive arming mode, the door locks will not lock automatically. You must press the interior door lock switch or use your key to lock the door.

Unlock (Saturn Security System Disarms)

You must press unlock on the transmitter to disarm the security system. If you unlock your door using the key without pressing the "UNLOCK" button on the transmitter, the alarm will be activated. If the alarm activates, you can press any button on the transmitter to stop the alarm. When you press the "UNLOCK" button on your transmitter, the doors will unlock.

If you hear three horn chirps when you press the "UNLOCK" or "LOCK" button on your transmitter, that means your Saturn's alarm was triggered while you were away.

### **Trunk (Liftgate) Release**

The trunk, or liftgate, will unlock when the car symbol button is pressed on the transmitter with the ignition off or when your Saturn is not moving. The dome lamp will come on and remain on for 40 seconds, or until you put your key in the ignition, and turn it to the "RUN" position. For safety reasons, you cannot open your trunk or liftgate using the car symbol button on your transmitter when your Saturn is moving.

### **Panic Alert**

The horn will sound and the dome lamp will flash when you press the red horn symbol button on the transmitter. This panic alarm will continue for two minutes, or until you press the red horn symbol button again, whichever comes first.

### **Illuminated Entry**

The dome lamp must be in the "DOOR" position for the illuminated entry feature to work. When you press the

"UNLOCK" button on your transmitter, the dome lamp will come on and stay on for 40 seconds, or until a door is opened. After the door is opened, the dome lamp will remain on as long as the door is open. Once you close the door, the dome lamp will stay on for 40 seconds, or until you put your key into the ignition, and turn the key to the "RUN" position.

This feature will allow you to see inside your car before you open the door, and will allow extra time with the dome lamp on once you get inside your car.

The Saturn Security System can keep your Saturn's battery from running down if a door is left open or ajar with the dome lamp switch in the "DOOR" position. If the ignition is turned to the lock position, the ignition key is removed, and a door is left open or ajar, the dome lamp will turn off in 30 minutes. The dome lamp switch must be in the "DOOR" position in order for the battery saver feature to function. The Saturn Security System cannot turn the dome lamp off if the dome lamp switch is in the "ON" position. If the dome lamp is left in the "ON" position for an extended period of time, the battery will run down.

#### **Starter Disable Feature**

Your car cannot be started when the Saturn Security System is armed. Your car can only be started when the Saturn Security System is disarmed.

#### ***Starting Your Saturn (If your transmitter is lost or damaged and the Saturn Security System is armed)***

Use your key to unlock and open the door. The alarm will sound for about two minutes.

After the alarm stops, put your key into ignition and turn your key to the "RUN," position.

Turn your key back to the "LOCK" position and remove your key from the ignition.

After about fifteen minutes, you will be able to start your car.

If you have not misplaced your transmitter but it is not working properly, refer to the synchronization section that follows. If your transmitter is still not working properly after you have gone through the synchronization procedure, follow the steps above and see your Saturn retailer for service.

#### **Synchronization**

Synchronization may be required due to the security method used by this system. The transmitter does not send the same signal twice. The receiver will not accept a signal that has been sent to it more than once. This eliminates the possibility that the signal will be recorded and played back.

To synchronize your transmitter with the receiver, press and hold the "LOCK" and "UNLOCK" buttons on the transmitter, at the same time for about 6 to 7 seconds, near your Saturn. The horn will chirp four times, and the dome lamp will flash once during each horn chirp. The door locks will unlock or lock, depending on their starting position. If the horn does not chirp or the door locks do not unlock or lock, see your Saturn retailer for service.

## **Transmitter and Receiver Range**

The range of the Saturn security System should be about 26 feet (8 meters). You may notice a decrease in range at times, and this should be considered normal for any security system.

If your transmitter does not work, or you are having to stand closer than normal to your Saturn for the transmitter to work:

You may have to replace your transmitter battery. See "Replacing a Battery in the Transmitter" for more information.

You may have to synchronize your transmitter with your receiver. See "Synchronization" for more information.

You may be too far from your Saturn. Check your distance from the car.

You may be in a crowded parking lot and other cars are blocking the signal. Take a few steps in either direction and try again.

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You may be experiencing radio frequency interference (RFI) RFI is caused by close proximity to radio broadcast stations, electric motors, heaters, alarm systems, and other frequencies that distort the Saturn Security System transmission frequency. Check for these items near your location.

You may have to stand closer to your Saturn in rain, snow, and in very high and low temperatures.

Your transmitter may work better if you hold it vertically or horizontally, depending where you are around your Saturn.

You may notice that just taking one step to the right or left makes the transmitter work. This is due to your Saturn's body frame structure.

If none of the above apply, see your Saturn retailer or authorized service provider for service.

### *Battery Replacement*

Under normal use, the battery in your key chain transmitter should last about two years. You can tell if the battery is weak if the transmitter won't work at the normal range in any location. If you have to get close to your vehicle before the transmitter works, it's probably time to change the battery.

For battery replacement, use a Panasonic® battery, 3 volt, type CR2032, or equivalent. To replace the battery, follow these steps:

### **Opening transmitter to replace battery**

1. Use a small coin or a flathead screwdriver to separate the bottom of the transmitter from the top.

### Removing battery from transmitter

2. Remove the battery and replace with a Panasonic® CR2032, or its equivalent.

### NOTICE

**When removing or replacing the battery, use care not to touch any of the circuitry. Static from your body transferred to these surfaces may damage the transmitter.**

3. Make sure the positive (+) side of the battery faces up.
4. Snap the top and bottom sides of the transmitter together.
5. Test the transmitter with your Saturn to see if it is working correctly.

If the transmitter does not work, try synchronizing your transmitter with your receiver. See "Synchronization" for more information.

### *Matching Transmitter(s) to Your Saturn*

Each transmitter is coded to prevent another transmitter from activating the Saturn Security System in your Saturn. If a transmitter is lost or stolen, a replacement can be purchased at your Saturn retailer.

Remember to bring any remaining transmitters with you when you go to your retailer. When the retailer matches the replacement transmitter to your vehicle, any remaining transmitters must also be marched. Once your retailer has coded the new transmitter, the lost transmitter will not unlock your vehicle. Each Saturn can have up to four transmitters marched to it.

### **Programming Features**

Your Saturn Security System also enables you to turn any of the following features on or off, depending on your needs; the alarm system, the starter disable and the horn chirp. To program any or all of these features on or off, contact your Saturn retailer for assistance.

You can program a transmitter to as many different 1999

Saturn cars as you own, as long as they have the power door lock option. Each Saturn can use up to four transmitters.

### **Programming a Receiver with a New Transmitter**

Because this operation can be difficult we suggest you refer to the 1999 Saturn Electrical Service Manual or contact your Saturn retailer for assistance.

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