

ALARM INTERFACE ACCESSORY



Astroflex

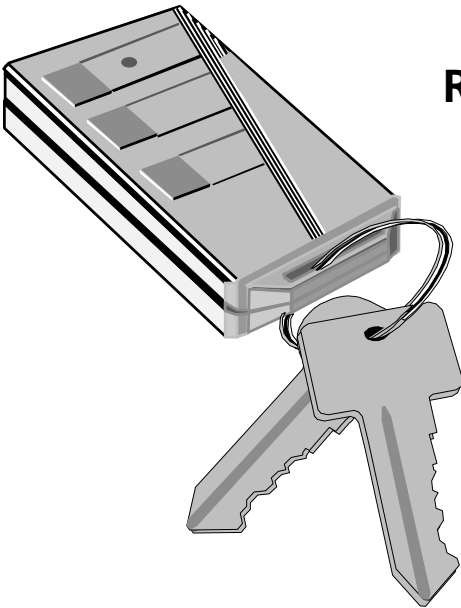
USER MANUAL

MODEL VSS-100

For use with Astroflex
Remote Starter

MODELS

RS-113 and RS-213



Manufactured in Canada by:


Astroflex

PATENT NOS U.S. 4,345,554
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AND OTHER PATENTS PENDING

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INTRODUCTION

Your **VSS-100** Security System is the result of intensive research by a company specializing in the design and manufacture of high-quality electronic automotive products. It is designed to provide many years of reliable, trouble-free service. Your Security System is easy to use and has many features to make your life easier. Please read the following instructions carefully so that you understand how the **VSS-100** Security System works and can take advantage of all these features. Some of the functions described below may not be applicable to your vehicle.

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WHAT IS THE VSS-100?

The **VSS-100** is a Vehicle Security System. Its main function is to activate the siren, horn and/or parking lights to attract attention if anyone tries to steal your vehicle or its contents, tow it or damage it. It is controlled by the remote control for your **Astroflex** Remote Starter.

Your system may also activate a **STARTER KILL** circuit when it is armed. This circuit can deactivate your vehicle's ignition switch to prevent someone from starting your vehicle with a copy of your key. This function is optional and may require additional equipment; consult your technician for more information.

DETECTION INPUTS

Your Security System has six detection inputs (zones), one of which may give an audible warning (siren "**ON**" for 2 seconds), with other five inputs setting off alarm for a period of one to four minutes if system is armed.

Inputs	Function
Warning	Siren " ON " for 2 seconds
Doors	Siren " ON " for a
Hood	period of 1 to 4 minutes
Additional sensors	depending on whether
Shock sensor	zone in violation is
Ignition	corrected or not.

Note : Setting off the alarm does not cut the engine if it is running with the Remote Starter.

ALARM CONDITION

When your **VSS-100** is in alarm condition, it activates the siren, horn and/or parking lights, depending on which is connected to the module. See "**DETERRENTS**" on page 5 for information on how these features work.

Alarm condition remains active for one minute, after which the system checks security zones again and prolongs alarm cycle if a zone is still in violation. Cycle may be prolonged for a maximum of four (4) minutes. If situation causing violation is corrected during a cycle, alarm shuts off at the end of the one-minute cycle.

ARMING/DISARMING

There are two ways of arming your Security System - manually or automatically - depending on initial programming. Disarming can only be done manually.

MANUAL ARMING

Remote control is used for this arming mode by sending **LOCK** command. Consult the Remote Starter User Manual. As soon as command is sent, system is armed and operational.

AUTOMATIC ARMING

In automatic mode, opening a door initiates the VSS-100's rearming cycle. The alarm system will be armed thirty seconds after checking that all the security zones are in a normal condition. This thirty-second period is called the "rearming delay". If a zone violation occurs during the rearming delay, the timer will stop counting and start again at thirty seconds when all the zones have returned to a normal condition.

During the rearming delay, the indicator light flashes rapidly. After three seconds, the system issues an audible confirmation (1 chirp of the siren) indicating that the system will arm after 27 seconds. At the end of this delay, the alarm is armed and issues a second confirmation (1 chirp of the siren and 1 flash of the parking lights) to indicate that the system is armed correctly.

If you wish to remain inside your vehicle without driving off, you can cancel the rearming cycle by turning the key to the ignition position (**IGN**) then back to "**OFF**". When you exit the vehicle, the cycle starts again and the system arms automatically.

All zones, with the exception of ignition, have the same effect as opening a door.

If your vehicle is equipped with electric locks and this system is connected to the Remote Starter, Security System will lock the doors when it arms the alarm. See **LOCK DISABLE**.

DISARMING

Disarming can only be done using remote control by sending **UNLOCK** or **TRUNK** command. Consult the Remote Control User Manual. As soon as command is sent, system is disarmed.

In automatic mode, if system is disarmed and no door is opened within thirty seconds, system is automatically rearmed.

CONFIRMATION

When you arm or disarm the system, a confirmation is sent using the siren and/or parking lights, depending on which was/were connected during installation.

When you arm the alarm, one flash indicates that all detection zones are in normal condition and system is ready. Three flashes indicate that one or more zones are in violation (e.g., door open). If zone is corrected (e.g., door closed), system issues another confirmation (one flash if all zones are in normal condition, and three flashes if another zone is in violation). If a zone is in violation upon manual arming and situation causing violation is not corrected, alarm is still armed but this zone will not be able to detect an alarm condition.

When you disarm the alarm, two flashes indicate that there has been no attempt to break into your vehicle or other problem, and four flashes indicate that the alarm was set off during your absence.

The following table summarizes the present chapter.

CONFIRMATION	MEANING
1 flash	System armed, no zone in violation.
2 flashes	System disarmed, no violation detected.
3 flashes	System armed with zone in violation. Check indicator light to know which zone.
4 flashes	System disarmed with violation detected. Check indicator light to know zone in violation.

INDICATOR LIGHT

Indicator light indicates different Security System conditions. When it is mounted in a place where it is visible from outside the vehicle, it may also act as a deterrent.

To know which zone is in violation during arming or if the alarm has been set off, check the number of flashes on the indicator light. The following table gives the meaning of the codes for zone in violation and alarm.

ZONE / ALARM CODES

- 1 System is armed.
- 2 Door is/was open.
- 3 Hood is/was open.
- 4 Alarm condition is/was detected on shock sensor input.
- 5 Ignition key is/was in **ON** position.
- 6 Alarm condition is/was detected on additional sensors input (glass breakage, movement, etc.).

Two other conditions may be shown by indicator light:

LOW CONSTANT:	Indicates that alarm is disarmed permanently. See VALET SWITCH.
RAPID FLASHING	See ARMING (automatic).

Only one code is shown at a time. If more than one zone is in violation during arming, the code changes when zone shown is corrected. Code is repeated until the brakes are applied.

SECONDARY FUNCTIONS

LOCK DISABLE

Lock disable function prevents the system from locking the doors during automatic arming if the key is in the ignition switch.

This input may also be connected to a switch that can select automatic locking as ACTIVE or INACTIVE.

Ask your installer if this option is connected.

VALET SWITCH

The Valet switch is used to activate the **Valet mode** or cancel an alarm condition when your **Remote control is out of order**. This switch must be located in a hidden location known only to regular users of the vehicle. Ask your installer to show you where it is located.

VALET MODE

This mode is used to disarm the alarm permanently when your vehicle is in for servicing, for example.

The following sequence will inactivate the alarm system permanently.

- Place the key in the ignition and turn in to the IGNITION position (**IGN**).
- Place the VALET switch in the "**ON**" position.
- Remove the ignition key.

To put the alarm back into active mode, repeat the same procedure with the exception of the position of the VALET switch (this must be put back to the "**OFF**" position). When the Valet mode is enabled, the indicator light stays on at half intensity.

REMOTE CONTROL OUT OF ORDER

This sequence is used to deactivate the alarm when your remote control is out of order.

- Enter the vehicle (the alarm will sound).
- Place the key in the ignition and turn it to the IGNITION position (**IGN**).
- Place the VALET switch in the "**ON**" position and then back to the "**OFF**" position.
- Remove the ignition key.

Note: If the system is programmed in automatic mode, it will rearm and you will have to repeat this sequence every time you use your vehicle. If you want to avoid this situation, leave the Valet switch in the "**ON**" position, which will have the effect of enabling the Valet mode at the same time.

DETERRENENTS

BUZZER

Buzzer (optional) usually consists of a small piezo-type element that beeps when the system is armed; this beep can be heard up to about two meters (six feet) from vehicle. It warns possible intruders that your vehicle is equipped with a Security System.

SIREN

Siren is a «six tone» type, which means that it blares repeatedly and alternates between six different sound sequences.

During an alarm condition, it is activated continuously.

It can give a confirmation of ARMING and DISARMING commands with short chirps; see table in CONFIRMATION section. It is programmable as ACTIVE or INACTIVE during installation.

HORN

Horn is activated intermittently (short repeated blasts) when there is an alarm condition. This function is optional and may require additional equipment. Consult your installer for more information.

PARKING LIGHTS

Parking lights flash intermittently (short repeated flashes) when there is an alarm condition.

Parking lights also give a confirmation of certain commands. See table in CONFIRMATION section.

LIFETIME LIMITED WARRANTY

- 1) ASTROFLEX warrants the manufactured product against any defect in workmanship or material for the period specified below.
- 2) This Warranty excludes any other legal warranty, with the exception of the provisions pertaining to public order.
- 3) This Warranty only applies in favor of the original purchaser; it does not apply to subsequent purchasers.
- 4) This Warranty is valid for the life of the vehicle on which the product was originally installed, as long as it remains installed on the said vehicle, with the exception of those components covered by a shorter warranty.
- 5) If the conditions mentioned in paragraphs 3) and 4) are met, the Warranty applies solely to the control module of the remote starter.
- 6) All other accessories and tools (such as the transmitter, switch, antenna, DL-3 or DL-4 module, MultiTest tool, etc.) are warranted for a period of one year from the date of the purchase contract; the batteries are not covered by any warranty.
- 7) ASTROFLEX shall repair or replace any part of the product or the product itself, either (a) in accordance with the provisions in paragraph 5), free of charge during the first two years of the contract, or (b) in accordance with the provisions in paragraph 6), free of charge during the first year of the contract.
- 8) After two years from the date of the contract, ASTROFLEX shall repair any part of the product or the product itself in accordance with the provisions in paragraph 5), for a charge not exceeding \$30.00. This amount must accompany the product to be repaired. The product will be returned, freight collect, to the purchaser.
- 9) If the purchaser cannot provide proof of purchase, the Warranty is limited to two years from the manufacturing date as confirmed by the product's serial number. The purchaser of this ASTROFLEX product shall return the product for warranty service, freight prepaid, to the appropriate address indicated at the end of this document.
- 10) This Warranty only applies to the product itself and does not apply to any material damages other than to the product itself.
- 11) ASTROFLEX does not warranty either the product itself or any damages that may be caused by the product if any of the following conditions apply:
 - a) the installation was not done by the installer-distributor, and in accordance with the instructions from ASTROFLEX;
 - b) the product was damaged after installation;
 - c) the purchaser used the product in an abusive manner or for a purpose other than stipulated in the user's guide;
 - d) the purchaser repaired the product himself or had the product repaired by someone not authorized by ASTROFLEX;
 - e) the product was repaired with parts not authorized by ASTROFLEX.
- 12) ASTROFLEX is not responsible for removal or reinstallation charges.
- 13) This Warranty constitutes the only warranty from ASTROFLEX in regard to the original purchaser; any other warranty is specifically excluded, including legal warranties, with the exception of provisions pertaining to public order.

Note: Operation, specifications and design of our products are subject to change without notice.

NOTICE



This device complies with the requirements of Industry Canada (IC) - Management of Radiofrequencies, as specified in document CNR-210. Its use is authorized only on a no-interference, no-protection basis; in other words, this device must not be used if it is determined that it causes harmful interference to services authorized by IC. In addition, the user of this device must accept any radio interference that may be received, even if this interference could affect the operation of the device.

IC APPROVAL No.: 1854 K 1066



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 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 instruction manual, 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, 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

FCC APPROVAL No. J5FRS-3R



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