

ALARM INTERFACE ACCESSORY



Astroflex

USER MANUAL

MODEL VSS-100

For use with Astroflex
Remote Starters
SERIES 120



Manufactured in Canada by:


Astroflex

U. S. PATENT NO. 4,345,554
CAN. PATENT NO. 1,130,426

OTHER PATENTS PENDING

193-120-228-00

INTRODUCTION

Your **VSS-100** alarm interface accessory is the result of intensive research by a company specializing in the design and manufacture of high-quality electronic automotive products. Its main function is to attract attention if anyone tries to steal your vehicle or its contents, tow it or damage it. This vehicle security system is controlled by the remote control for your Astroflex Remote Starter. It is designed to provide many years of reliable, trouble-free service. Your VSS-100 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 works and can take advantage of all these features. Some of the functions described below may not be applicable to your vehicle.

TABLE OF CONTENTS

FEATURES	1
SECURITY ZONES	1
DETERRENTS	1
ACTIVE	1
PREVENTIVE	1
ALARM MODES	1
WARNING	1
PRE-ALARM	1
ALARM CONDITION	1
OPERATION	2
MANUAL	2
SEMI-AUTOMATIC	2
AUTOMATIC	2
CANCELLING ALARM CONDITION	3
CONFIRMATION	3
INDICATOR LIGHT	4
ZONE CODES	4
SECONDARY FUNCTIONS	4
DOOR LOCK	4
ANTI-LOCK	4
TEMPORARY VALET MODE	5
VALET SWITCH	5
VALET MODE	5
REMOTE CONTROL OUT OF ORDER	5
GLOSSARY	6
LIFETIME LIMITED WARRANTY	7

FEATURES

SECURITY ZONES

Your VSS-100 can use up to six different monitoring devices at the same time to protect your vehicle. These devices are connected to the VSS-100 on different inputs called security zones. One of these zones can give an audible warning (siren «ON» for 2 seconds) while the other five generate an alarm condition if the system is armed.

SECURITY ZONES	FUNCTIONS
Warning (pre-shock)	Siren «ON» for 2 seconds
Doors	Siren «ON» for a period of
Hood	30 seconds to 4 minutes depending
Additional sensors	on the initial programming
Shock sensor	and whether the zone in
Ignition (ignition key)	violation is corrected or not.

DETERRENTS

ACTIVE

When one of the monitoring devices detects a violation, the VSS-100 reacts by energizing the following deterrent devices, depending on which is connected to your system. The VSS-100 can energize up to four deterrent devices at the same time - **siren, parking lights, dome light** and/or **horn**.

PREVENTIVE

The **indicator light** indicates the different alarm system conditions (see "Zone codes"). When it is mounted in a place where it is visible from outside the vehicle, it may also act as a deterrent.

The **buzzer** (optional) consists of a small piezo-electric element that beeps when the system is armed; this beep can be heard up to about two meters (six feet) from the vehicle. It warns possible intruders that your vehicle is equipped with an armed alarm system.

ALARM MODES

WARNING

The warning signal consists in a siren that chirps briefly (two seconds). When a dual stage shock sensor (optional) is connected to the VSS-100, a light shock will activate the warning signal when the alarm is armed.

PRE-ALARM

If you set off the alarm by mistake and do not want to alarm (or disturb...) the whole neighbourhood, the "pre-alarm mode" cuts in three seconds before the actual alarm to give you time to disarm the system. In this mode, the parking lights, siren and dome light are activated intermittently for three seconds.

ALARM CONDITION

When the **VSS-100** is in an alarm condition, it energizes its deterrent devices, depending on which is connected to the module. The alarm condition remains active for a period of thirty seconds or one minute depending on the initial programming, after which the system pauses for five seconds. During this pause, it checks the security zones again and reinitiates the alarm cycle if a zone is still in violation. This cycle can be repeated up to four times. If the situation which caused the violation is corrected in the middle of a cycle, the alarm shuts off at the end of the current cycle.

OPERATION

Your vehicle safety system can function in three different modes, namely **manual**, **semi-automatic** and **automatic** depending on the initial programming. Consult the section corresponding to the mode in which your system was configured during installation.

MANUAL

In manual mode, the VSS-100 must be **armed** and **disarmed** with the remote control. Consult your Remote Starter User Manual for information on the commands. The system is armed as soon as the command is received. If a zone is in violation when the command is received, the alarm will still arm. However, the zone in violation cannot trigger the alarm since it was not previously in a normal condition. Manual mode is always available even if your system was configured differently when it was installed.

SEMI-AUTOMATIC

In semi-automatic mode, the VSS-100 must be **armed** and **disarmed** with the remote control. Consult your Remote Starter User Manual for information on the commands. In this mode the VSS-100 automatically rearms 25 seconds after you have disarmed it if there is no security zone in violation.

The following table shows how each zone affects the rearming cycle.

Security zone	Effect on the rearming cycle
Hood	These three zones delay the onset of the rearming cycle for as long as they remain in violation.
Additional sensors	
Shock sensor	
Ignition	These two zones cancel the rearming cycle completely.
Doors	
Warning	No effect

Applying the brake pedal and enabling the "Temporary valet" mode cancel the rearming cycle.

AUTOMATIC

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 five seconds, the system issues an audible confirmation (1 chirp of the siren) indicating that the system will arm after 25 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**" or by depressing the brake pedal. When you exit the vehicle, the cycle starts again and the system arms automatically. See also "Temporary valet" mode.

If you disarm the system (to enter the vehicle, for example) and do not open the door within thirty seconds, the system automatically rearms.

The following table shows how each zone affects the rearming cycle.

Security zone	Effect on the rearming cycle	
Hood	These four zones delay the onset of the rearming cycle for as long as they remain in a violation status.	
Doors		
Additional sensor		
Shock sensors		
Ignition	Controlled by the ignition key:	Cancels the rearming cycle
	Controlled by the remote starter:	No effect
Warning	No effect	

Applying the brake pedal or turning the ignition key to the "ON" position cancels the rearming cycle (until a door is opened, which reset the rearming delay starts again from the beginning of the cycle).

See also "Temporary valet" and "Dome light delay".

Disarming can only be done using the remote control by sending the **UNLOCK** command (consult your Remote Starter User Manual). The system is immediately disarmed and starts again at the beginning of the rearming delay.

CANCELLING ALARM CONDITION

You can cancel the alarm condition by sending the "Unlock" command, which also disarms the system, or by sending the "Lock" or "Stop" command, which cancels the alarm condition without disarming the system.

CONFIRMATION

When you arm or disarm the system, a confirmation is issued by the siren (if it is programmed during installation) and the parking lights.

When the alarm is armed manually, one confirmation (chirp of the siren and/or flash of the parking lights) means that all the security zones are in their normal condition and the system is ready. Three chirps or flashes indicate that one or more zones are in violation (example, a door is open). When the zone is corrected (example, the door is closed), the system issues another confirmation (one chirp or flash if all the zones are in their normal condition, three if another zone is in violation). If a zone is in violation when the system is armed manually and the situation causing the violation is not corrected, the alarm still arms, but this zone cannot generate an alarm condition. See also "Dome light delay".

When you disarm the alarm, two chirps or flashes indicate that no one has tried to break into your vehicle or otherwise violate the system; four chirps or flashes indicate that an alarm condition occurred during your absence.

The following table summarizes this section.

CONFIRMATION	MEANING
1	System armed, no zone in violation.
2	System disarmed, no violation detected.
3	System armed with zone in violation. Check the indicator light to know which zone.
4	System disarmed with violation detected. Check the indicator light to know what caused the alarm condition.

INDICATOR LIGHT

The indicator light indicates the different alarm system conditions. When it is mounted in a place where it is visible from outside the vehicle, it may also act as a deterrent.

UPON ARMING - The indicator light displays the codes for the zones in violation (example, a door is open). Only one code is displayed at a time. If more than one zone is in violation during arming, the code changes when the zone displayed is corrected (example, the door is closed).

UPON DISARMING - The indicator light displays the code for the last zone that generated an alarm condition. The code is displayed when the Unlock command is sent and a door is open. The code is repeated until the brake pedal is applied.

The following table shows what the zone codes mean (number of flashes).

ZONE CODES

Flash	Zone indication
1	The system is armed
2	A door is/was open.
3	The hood is/was open.
4	An alarm condition is/was detected on the shock sensor input.
5	The ignition key is/was in the ignition position (IGN).
6	An alarm condition is/was detected on the additional sensors input (broken window, movement, etc.).

Two other conditions may be shown by the indicator light:

LOW CONSTANT	Indicates that the alarm is disarmed permanently. See "Valet mode".
RAPID FLASHING	See "Operation (automatic)".

SECONDARY FUNCTIONS

DOOR LOCK

If the vehicle is equipped with electric door locks and this system is connected to the remote starter, the VSS-100 will lock the doors when it arms the alarm.

ANTI-LOCK

When it is connected to the ignition key cylinder, this function prevents the system from locking the doors during automatic arming when the key is in the ignition.

It can also be connected to a switch for selecting whether the automatic lock is ACTIVE or INACTIVE.

TEMPORARY VALET MODE

This mode allows you to cancel automatic arming for an indefinite period of time. You will find it useful when filling up or when working on or around your vehicle. To enable the Temporary valet mode, send the Unlock command during the 30-second rearming delay (indicator light flashing rapidly). When the light stops flashing, it confirms that the **Temporary valet** mode is enabled. To cancel this mode, simply turn the ignition key to the "ON" position. Opening a door reactivates automatic arming. You can also arm the system with the remote control, which cancels the Temporary valet mode.

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 it 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.

GLOSSARY

Siren

The siren emits six different sounds, which means that it chirps repeatedly and alternates between six different sound sequences.

It is activated intermittently (short repeated chirps) during a pre-alarm and continuously during a warning or alarm condition.

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

Horn

The horn is activated intermittently (short repeated blasts) when there is a warning or alarm condition. This function is optional and may require additional equipment to be installed. Consult your installer for more information.

Parking lights

The parking lights flash intermittently (repeated flashes) when there is a warning, pre-alarm or alarm condition.

The parking lights also confirm that commands have been received. See the table in the CONFIRMATION section.

In violation

"In violation" means the condition required for a security zone to generate an alarm condition; for example, a door is open, etc.

Dome light delay

The remote starter can turn on the dome light for 35 seconds when you send an Unlock command (not available in semi-automatic mode). In automatic mode, the VSS-100 ignores the "doors" zone during the dome light delay, which has the effect of extending the rearming time by 35 seconds.

On certain vehicles, the dome light may remain on after the last door has been closed. If this option applies to your vehicle, the rearming time is extended by the length of time the dome light is kept on by the vehicle.

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



1164, Route 220
St-Elie d'Orford (Quebec) Canada
JOB 250



516A Elm Street
Manchester, NH 03101
U.S.A.