



AVS 5000

SECURITY SYSTEM



OWNER'S MANUAL

Introduction

Thank you for choosing the new AVS 5000i. The system has been designed to provide excellent security and convenience for you and your vehicle.

Some features are identified as options – these may be installation configurable or programmable. We recommend that the system configuration and programming is left to an authorised AVS dealer.

We recommend that you read this guide carefully and keep it in a safe place for future reference.



Particularly important items for you to note are identified with this symbol.

The alarm system

The AVS 5000i is a microprocessor controlled security system designed to help protect your vehicle from being stolen. It includes two automatic immobilisers to disable your vehicle's electrical system. When armed, the immobilisers will prevent the car being started.

The AVS 5000i also helps protect your vehicle's contents from theft. When armed, the system will trigger if the doors, boot, or bonnet are opened. The AVS 5000i will also trigger if an impact to the vehicle is detected by the shock sensor.

The remotes

The AVS 5000i comes with two remotes. The remote is used to control the system's various features and functions. The remotes have rolling codes (4 billion codes) to prevent scanning and code grabbing devices. The top button is the one nearest the LED light. Further remotes can be obtained from your AVS dealer and can easily be programmed into the system.

Battery replacement – long life Lithium batteries are fitted as standard to the remote. The replacement part is: CR1616 (two per remote) and are available from your AVS dealer or any good electrical retailer. To open the remote, remove the two screws on the back of the remote with a Phillips screwdriver. Once the new batteries are inserted and the screws replaced, check the LED illuminates by pressing any of the buttons.

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It is wise to replace the remote batteries before they fail completely. An indication that the batteries need replacing is a reduction in the operating range. When the batteries in the remote are almost flat the remote's LED will flash instead of lighting constantly when a button is pressed.

Normal operation

Auto immobilisation

The AVS 5000i will automatically immobilise 38 seconds after the ignition is switched off. The LED will flash once the car is auto-immobilised. The immobilisers must be disarmed before the vehicle can be started.

Arming the system

To arm the system turn off the ignition, exit the vehicle and ensure all doors (and bonnet/boot/hatch) are properly closed then press the top button on your remote.

The indicator lights will flash once and siren will also chirp once. If the system is connected to your central door locking the doors will lock at this point. The LED light on the dash will stay on for 20 seconds then flash. The system will not activate until the LED on the dash starts flashing.

This procedure will also arm the alarm if the system has entered auto-immobilise mode.

Error zone report

If any of the zones (door/bonnet/boot/hatch) are open when you arm the alarm the system will warn you by chirping after four seconds. The system will still arm, but will exclude the open zone until it is properly closed. See the table below for zone codes.

Number of chirps	Error zone
1	Door*
2	Bonnet/boot
3	Shock sensor
4	Ignition
5	Voltage drop
6	Optional sensor

* If your vehicle has a factory interior light delay this feature may not be available.

Disarming the system

To disarm the system, press the top button on the remote. The indicator lights will flash twice and the siren will chirp twice. If the system is connected to the vehicle's central door locking system the doors will unlock at this point. The LED light on the dash will stop flashing.

When the system is in auto-immobilise mode turn the ignition on and push either remote button to disarm.

Triggered zone report

If the alarm has been triggered while you have been away from the vehicle the LED can tell you which zone has activated. When you first turn on the ignition watch the LED and count the number of flashes. See the table below for zone codes.

Number of flashes	Triggered zone
1	Door
2	Bonnet/boot
3	Shock sensor
4	Ignition
5	Voltage drop
6	Optional sensor

Silent arm/disarm

Push the bottom button on the remote to silent arm or silent disarm. The indicators will still flash once for arm and twice for disarm.

Auto re-arm and re-lock

The AVS 5000i will automatically re-arm and (if central door locking is connected) re-lock the doors if the system is disarmed and a door not opened within 30 seconds. This function prevents the accidental disarming of the alarm system. This feature can be disabled by your AVS dealer if you would prefer.

AVS 5000i battery back-up siren

The AVS 5000i is fitted with a battery back-up siren. The siren has its own battery and charging system so it will continue to sound if power is cut to it from the car. The siren is supplied with two keys for the key switch on the top of the siren.



If you need to disconnect your vehicle's battery the siren will need to be turned off with the key switch before disconnecting the battery. Remember to turn it back on when the battery is reconnected!

AVS 5000i shock sensor

This two-stage shock sensor will chirp the siren five times if the sensor detects a light impact to the vehicle. If another small impact is detected within 15 seconds the alarm will trigger. If the shock sensor detects a large impact the alarm will trigger.



The shock sensor (and any auxiliary sensors) can be temporarily disabled. To do this arm the alarm then press top button again within three seconds. The siren will emit a long chirp. The next time the alarm is armed the sensors will automatically turn back on.

AVS 5000i additional features

Central door locking

The AVS 5000i has an interface to control the door locks. If you have central door locking on your vehicle and have selected this option, your doors will lock and unlock when you arm and disarm the alarm with the remote.

NOTE: Some vehicles require additional door motors for this feature to operate.

In-car lock

This function locks the doors when the ignition is on and the brake pedal is touched twice. It requires central locking to operate.

Panic/car finder

The AVS 5000i includes a panic mode, which enables you to activate the alarm from the remote. This feature only works when the ignition is turned off. Press the bottom button for two seconds. The alarm will trigger for 30 seconds.

Electronic boot release

This feature enables the boot/hatch to be unlocked by pressing the top button for two seconds. The indicators will flash 10 times and the boot will unlock. This is an optional installation feature that can be connected for an additional installation charge.

NOTE: Vehicle's without an electronic boot release (solenoid) will also require additional parts.

Silent arm/disarm

The AVS 5000i can be programmed to silently arm and disarm. The indicators will still flash.

Shock sensor (and optional sensor/s) disable

The shock sensor (and any auxiliary sensors) can be temporarily disabled. To do this arm the alarm then press top button again within three seconds. The siren will emit a long chirp. The next time the alarm is armed the sensors will automatically turn back on.

Valet mode

The AVS 5000i can be put into 'Valet mode' which will stop the alarm arming. This is a useful function if your vehicle is being serviced or repaired.

To enter 'Valet mode':

1. Disarm the alarm.
2. Turn the ignition on.
3. Push the top button on the remote 17 times.
4. Turn the ignition off.
5. The siren will chirp five times to confirm it is in 'Valet mode'.

In 'Valet Mode' only the central locking (if connected) and the boot release will operate from the remote.

To exit 'Valet mode':

1. Turn the ignition on.
2. Push and hold the top button on the remote for two seconds.
3. The siren will chirp five times to confirm 'Valet mode' is off.

Additional sensors

The AVS 5000i can be also be fitted with additional sensors including:



AVS ultrasonic sensor measures air pressure and movement within the car and will trigger when that pressure changes. It is designed to give greater protection for the interior of the vehicle. This sensor is not suitable for situations where animals or children are left in the vehicle or windows are left open while the alarm is armed.



AVS glass break sensor detects the sound frequency of breaking glass.



AVS microwave sensor will detect body mass such as someone entering the vehicle. It is designed for use on convertibles where other sensors are not suitable. This sensor is not suitable for situations where animals or children are left in the vehicle while the alarm is armed.



AVS tilt sensor is designed to protect mag wheels by triggering the alarm if the car is jacked 2° in any direction after the alarm has been armed.

NOTE: An additional charge will apply for each additional sensor fitted.



Interior piezo siren

This is an extremely high-pitched screamer siren for the cabin of the car. An additional charge will apply. Do not leave animals or children in the vehicle when the alarm is armed with this option fitted.

PIN code

In case you lose or damage your remotes (or the batteries are exhausted) each individual unit can be programmed with an access Personal Identification Number (PIN) of your choice.



Once your chosen PIN code is programmed into the system there is no other record of your PIN code (the installer will not record it). It is most important that you make a careful note of this PIN code and carry it around with you in case you need it. Do not proceed until you have done this!

PIN code over-ride:

To enter over-ride mode and disarm the system (the procedure is the same if the alarm is armed or only auto-immobilised) follow the procedure below:

1. Open the driver's door. The siren will sound.
2. Enter the car and close the door.
3. Within 30 seconds turn the ignition from ACC to OFF the number of times for your PIN code and leave in the OFF position.
4. Wait 30 seconds, if the code is correct the alarm will stop and the indicators will continue to flash for three minutes then the alarm will disarm. If the alarm does not stop after 30 seconds, the code was entered incorrectly. Start again from 1.

Problem solving

Following are some common questions and answers regarding the operation of the AVS 5000i.

Why is the remote range getting shorter?

The remote battery is going flat. See your AVS dealer or any good electrical retailer for replacement batteries.

I have lost/damaged my remote. How do I start the car?

You can disarm the system by using the PIN code override procedure.

My alarm chirps more than once when I arm the system?

The system is warning you that a door or bonnet/boot is open. Disarm the system, correct the problem and start again.

I disarmed the system a few minutes ago but now it is armed again?

It is most likely that the system recognised you did not enter the car so it has automatically re-armed, and (if central door locking is connected) locked the doors. This feature can be disabled by your AVS dealer.

The system disarms and the dash lights are working but the car won't start?

This is often an indicator of a flat car battery. The AVS 5000i draws such a small amount of power the system can be armed and disarmed (just like you can still see the dash lights) but the car does not have enough power to start. You will need to replace or recharge the car battery.



If jump-starting the car to recharge the car battery please use protected jumper leads as failure to do so can do irreparable damage to the alarm system and your car's computer system and will void your car alarm warranty.

The system disarms but when I try to start the car there is a clicking sound and/or the siren chirps when I crank the engine but the car won't start?

This is often another indicator of a flat battery. See above.

I'm worried the alarm will drain the car battery?

The AVS 5000i have been designed to draw as small amount of current from your car battery as possible. As long as the car's battery is in good condition the system should not adversely affect most car's batteries if left unattended for up to about three weeks.

Three year warranty



Complete the information below and keep with your original receipt for the three year warranty period.

Installation details:

Date of

Installation: _____

Installer: _____

NZSA

Installer #: _____

Product: _____

Your details:

Surname: _____

Initials: _____

Address: _____

Vehicle

Make/Model: _____

Vehicle

Rego #: _____

Terms and Conditions:

Manta Electronics Ltd warrants the original consumer purchaser that the product described above, installed in the vehicle above, is free from defects in material and workmanship. Should this product be proven to be defective in materials or workmanship during the term of the warranty, Manta Electronics Ltd shall replace or repair any product or part of the product which Manta Electronics Ltd agrees is defective, without charge.

Warranty on installation labour, removal and reinstallation charges are not the responsibility of Manta Electronics Ltd.

If you require a mobile technician to call there will be a call out charge regardless of the cause of the fault.

Any damage to the products as a result of misuse, abuse, neglect, accident, incorrect wiring, improper installation, repair or alteration outside Manta Electronics Ltd approved dealers will void warranty.

Remote control transmitters and batteries are not covered under warranty.

This warranty shall not apply to any product which is found to have been modified, repaired or altered in any way without the express written consent of Manta Electronics Ltd. This warranty shall not apply to any equipment or product connected to the Manta Electronics Ltd product.

This warranty does not constitute a guarantee or insurance against the theft of the vehicle or contents thereof.

This warranty does not affect your rights under the Consumer Guarantees Act.



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