



AVS 6000 USER MANUAL

July 2003 EDITION

ALARM FEATURES

- 2 STAGE SHOCK SENSOR WITH AUTO ADJUST
- GLASS BREAK SENSOR
- BATTERY BACKUP SIREN
- TWO ROLLING CODE REMOTES (4 BILLION CODE VARIATIONS)
- TWO ON BOARD IMMOBILISER CIRCUITS
- AUTOMATIC IMMOBILISATION
- CENTRAL LOCKING OUTPUTS
- ON BOARD INDICATOR FLASH RELAYS
- BLACK CABLE LOOM
- SIMPLE PROGRAMING OF FEATURES FROM REMOTE CONTROL
- PERIMETER NIGHT LIGHT
- PAST ALARM TRIGGER MEMORY
- FAULTY SENSOR BYPASS
- MULTIPLE VEHICLE CONTROL
- ELECTRONIC BOOT RELEASE FROM REMOTE
- LED TORCH INCORPORATED INTO REMOTE

ALARM CERTIFICATION/STAR RATING

CERTIFICATION

THE AVS 6000 IS CERTIFIED TO AS/NZS3749.1:1997.

NEW ZEALAND SECURITY ASSOCIATION STAR RATING

THE AVS 6000 IS RATED 4 STAR.



INTRODUCTION

Thank you for purchasing the AVS 6000 alarm system for your vehicle. The AVS 6000 is designed to provide a high level of protection for your vehicle and has been tested and certified to meet AS/NZS3749.1:1997.

SYSTEM FEATURES

Auto-immobilisation:

The AVS 6000 will automatically immobilise 38 seconds after the ignition is switched OFF. The LED on the dash will light solid to indicate it is in auto immobilise mode.

Arm by remote (and lock if central locking is connected):

The system is activated by pressing the bottom button on the remote control. The indicators will flash once and the siren will chirp once. If central locking is connected the doors will lock. The LED light on the dash will stay on for 20 seconds then flash.

NOTE: For silent arm press the left and bottom button on the remote together.

Disarm by remote:

To disarm the system, press the bottom button on the remote. The indicators will flash twice and the siren will chirp twice. The LED will stop flashing. If central locking is connected the doors will unlock.

NOTE: If the alarm was activated while you were away from the vehicle the system will flash the indicators and chirp the siren four times.

NOTE: For silent disarm press left and bottom button on the remote together.

Low remote battery warning:

When the battery in the remote is almost flat the remote's LED will flash instead of lighting constantly when a button is pressed.

LED torch:

Push top button on remote.

Auto re-arm and re-lock: (programmable):

If the system is disarmed and a door is not opened within 60 seconds it will re-arm and re-lock the doors (if central locking is connected).

Door ajar warning:

If the vehicles doors are not properly closed when you try to activate the immobiliser system, the indicators will flash and the siren will chirp six times to alert you that the vehicle is not secure.

Panic/car finder:

The panic function is operated by pushing the right button on the remote. Cancel panic by pushing the right button again.

Auto sensor bypass:

This function is designed to prevent false alarms from faulty sensors or switches. If the system is triggered by the same sector three times then that particular sensor will be bypassed. The sector will only be bypassed for one arming period, it will automatically become active next time the alarm is armed.

Remote boot release:

This feature enables the user to unlock the boot by pressing the left button on the remote for three seconds. The boot will unlock and the alarm will disarm with audible beeps.

NOTE: Vehicles without electronic boot release will require an additional boot release solenoid. See your installer.

Passive arming:

The alarm can automatically arm the alarm one minute after you leave the vehicle provided that the ignition is turned off and at least one door has been opened and closed. This feature will not lock the vehicle.

Pre warning impact sensor with ETS:

This special feature provides a two-stage impact sensor. It will give pre-warning beeps for a few seconds if the sensor detects a light impact to the vehicle. If the vehicle is attacked any further, the system will enter full alarm mode. The unique ETS Environment Tuned Sensor is able to distinguish between environmental shocks caused by aircraft, trucks, or extreme weather conditions, and the impact caused by a thief attempting to break in or other heavy impacts.

Furthermore the system features the unique AVS "Auto Adjust" process, where during the first 20 second arming delay, the alarm samples the background noise where the vehicle is parked, and will, if necessary, automatically reduce the sensitivity of the impact sensor to an appropriate level. This process allows trouble free sensitivity that ordinary impact sensors cannot provide.

Please refer to the programming section later in this manual for setting the shock sensor.

Glass break sensor:

The AVS 6000 incorporates an intelligent glass break sensing system. This inbuilt device will trigger the alarm provided it registers the correct sound frequency parameters for breaking glass and that the impact sensor also registers a corresponding vibration to the vehicle. This ensures accurate detection of glass breakage.

Past alarm trigger memory:

If the alarm was triggered by an intruder while your alarm was set, it will beep the siren and flash the indicators four times on disarm. The system will also store the last 10 times the alarm has been activated in its memory and can tell you what has triggered the system. Please refer to the programming section later in this manual for details on retrieving memory.

Learning new remotes:

To add a new remote to the system follow the procedure below:

1. Turn the vehicle's ignition on
2. Immediately press and hold the bottom button on the original remote until the siren starts to beep (approximately 4 seconds) and then release the button
3. Immediately press and hold the bottom button on the new remote for at least 4 seconds
4. Turn off the ignition
5. The new remote is now programmed into the system.

NOTE: If there are no valid remotes available the module will need to be returned to the supplier for reprogramming.

PROGRAMMABLE FEATURES

Detailed below is a complete list of programmable features that can either be turned on or off.

We have set at the factory the most common configuration and these settings are listed in the REGISTER setting below. Once the desired features have been selected, the selection is permanently retained in the memory even if the power is removed.

To turn on or turn off any feature use the following procedure: e.g. to enable passive arming:

1. Find the REGISTER (1, 2 or 3) in which the feature is located. (e.g. passive arming is located in REGISTER 1)
2. Set the vehicle up as described to access REGISTER 1, (doors closed, bonnet closed, turn the ignition on last)
3. Press the bottom button on the remote the number of times for the feature's code (e.g. 5 times for passive arming)
4. Turn the ignition off
5. The siren will then confirm which features are turned on via audible readout. If a feature is turned on the siren will chirp its code corresponding to the number shown in the column "Number of pushes". The siren in this example will beep in order: once, then twice etc up to five times. This shows that all features except 6 and 7 are now turned on. Please note that that feature 9 is excluded from the confirmation chirps.

HOW TO CHANGE PROGRAMMING REGISTER 1

Vehicle setup: All doors closed, bonnet closed, turn ignition on last

Programmable feature	Number of pushes	Initial factory setting	Description
Arming beep	1	ON	1 beep on arm
Disarming beep	2	ON	2 beeps on disarm
Auxiliary detection	3	ON	Activate ultrasonics, microwave if fitted
Shock sensor	4	ON	Activate 2 stage shock sensor
Passive arm	5	OFF	System arms automatically 60 seconds after exit. Will not lock doors.
Auto re-arm	6	OFF	If the system is disarmed and a door is not opened within 60 seconds the system will re-arm and re-lock.
Lock pulse on alarm trigger	7	OFF	When the alarm is triggered, the doors will be sent a lock pulse. i.e. the would be thief picks the door lock, the alarm triggers on voltage drop due to the central locking operating, then the doors immediately re-lock to foil the thief.
Not used	8	OFF	
Shock sensor adjustment	9	6 SELECT the level required	After pressing the remote 9 times to enter this mode, turn the ignition off. There are 8 levels of adjustment. The factory default level is 6. Pressing the remote once will increase the sensitivity by one level i.e. to level 7. The LED will then flash 7 times to indicate the new level. Pressing the remote again will increase the level to 8 (max). Pressing the remote again will return the adjustment to level 1 (least sensitive). Once you have the desired level turn the ignition ON to exit this mode.

HOW TO CHANGE PROGRAMMING REGISTER 2

Vehicle setup: Drivers door open, bonnet closed, turn ignition on last

Programmable feature	Number of pushes	Initial factory setting	Description
Left button used for another vehicle	1	OFF	Allows your remote keys to be divided to act like two separate single button remote keys to control two separate vehicles. i.e. bottom button controls vehicle "A", left button controls vehicle "B". Simply teach the remote to the other vehicle and see function below. Only bottom button features can be accessed. (i.e. boot release control is unavailable).
Second button used to arm/disarm this vehicle	2	OFF	Turn this feature on in your second vehicle if you are utilizing the above feature.
Not used	3	OFF	
Not used	4	OFF	
Silent operation	5	OFF	When on this feature stops the siren from sounding. The alarm will still trigger, flashing the indicators and the pager output will still operate.
Valet mode	6	OFF	When on, this feature allows 5 engine starts before the system returns to its normal operation. i.e. auto immobilisation and passive arming if turned on.
Central closure/vacuum locking	7	OFF	When on, the lock pulse becomes 15 secs instead of 0.5 secs. This feature is for vehicles with vacuum locking or with a central closure wire (some BMW, Mercedes) which will close the windows and sunroof automatically.
Not used	8		
Installer mode	9	Select the mode required	After pressing the remote 9 times to enter this mode, turn the ignition to off. This mode allows the installer/owner to verify that each trigger of the alarm system is working, without having to arm/disarm the system each time and trigger the alarm. The siren will beep and the indicators will flash to indicate a trigger e.g. open a door, push the bonnet switch. Turn the ignition on to exit this mode.

HOW TO CHANGE PROGRAMMING REGISTER 3

Vehicle setup: Drivers door open, bonnet open, turn ignition on last

Programmable feature	Number of pushes	Initial factory settings	Description
Current sensing override	1	OFF	If activated this feature prevents the alarm from activating via voltage drop.
Door lock on ignition	2	OFF	When on, this feature will lock the doors when the ignition is turned on and unlock when the ignition is turned off.
2 second exit delay	3	OFF	When this feature is on, the normal 20 second exit delay is reduced to 2 seconds i.e. the alarm is fully armed 2 seconds after the remote is pushed.
No door ajar warning	4	OFF	When on, the system will not chirp for 3 seconds if armed with a door open.
Passive arm from ignition off only	5	OFF	When on the system arms automatically 60 sec after exit even though the doors are not closed. Will not lock.
Perimeter night light	6	OFF	On disarm the indicators will stay on constantly for 20 secs.
Instant boot release	7	OFF	When on the boot release button (left) will only required to be pushed once instead of held down for 3 seconds.
External pre-warning output	8	OFF	When on, the internal alarm pre-warn is disabled and a 2 second output from the boot wire is given.
Past alarm trigger memory	9	SELECT to replay memory	<p>For use when optional siren is fitted. After pressing the remote 10 times to enter this mode, turn the ignition off. The AVS 6000 offers a unique memory that stores the ten last reasons why the alarm triggered. This memory cannot be erased.</p> <p>1 chirp, 1 flash - Voltage drop alarm 2 chirp, 2 flash -.Glass break alarm 3 chirp, 3 flash - Shock sensor alarm 4 chirp, 4 flash – Power fail alarm 5 chirp, 5 flash - Ignition alarm 6 chirp, 6 flash – Aux sensor alarm 7 chirp, 7 flash – Door alarm 8 chirp, 8 flash - Bonnet/boot</p> <p>If 2 previous alarms were recorded i.e. door alarm and ignition alarm, the LED will flash and the siren will beep 7 times for door alarm, then no noise for 1 second then chirp 5 times for ignition. The last memory heard is the most recent triggered. Turn the ignition on to exit.</p>