



# JAG

## RES4601a



**AUSTRALIAN STANDARDS APPROVED  
REMOTE CONTROL ENGINE IMMOBILISER**



- This product complies with AS/NZS 3749.1 2003 Class A. Volumetric Sensing must be enabled to comply with a Class A installation (refer 'feature programming').
- Class A VSAS (Vehicle security alarm system) includes control equipment including setting and unsetting facilities, all sensors, warning devices and provisions for immobilization of the vehicle and the volumetric sensing device (glass break/shock).
- This product complies with AS/NZS 3749.1 2003 Class B. Volumetric Sensing must remain disabled to comply with a Class B installation (refer 'feature programming').
- Class B VSAS (Vehicle security alarm system) includes control equipment including setting and unsetting facilities, all sensors, warning devices and provisions for immobilization of the vehicle.
- This product complies with AS/NZS 4601:1999/Amdt 1: 2003
- This product is to be installed in accordance with the methods & principles detailed in AS 3749.2:1997

Has your insurer specified fitting a "RES2001"?  
For details, please refer to page 12



## Instruction Manual JAG 311005.doc

*Thank you for purchasing a Rhino Engine Immobiliser. Please read this manual carefully before commencing installation and keep it in a safe place for future reference.*

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## **Features**

### **Standard System Features**

- Microprocessor Controlled
- Three Point Engine Immobilisation (Onboard Relays)
- Auto Immobilise (Passive Arming)
- Code Hopping Remote Technology (Anti-Scanning, Anti-Code Grabbing)
- Two SSR™ Solid State Remote Controls with 4 Function Operation (Arm / Disarm, Boot Release, Panic & LED Torch)
- Long Life Lithium Cell Remote Control Batteries (Each Remote Uses 2 x CR2025)
- Automatic Re-arm in case of Accidental Disarm
- Ultra-Bright Red Flashing LED Light
- Visual Arming and Disarming via Indicators (1 Flash For On, 2 Flashes For Off)
- Safety Circuit Prevents Arming While Ignition On
- Learning Mode for Adding Additional Remote Controls (maximum of 5)
- Negative On Alarm Output for Optional Internal Cabin Siren
- Onboard Central Locking Relay Outputs

### **Selectable System Features (These features can be turned on and off).**

- Arm / disarm beeps (if optional siren fitted)
- Door ajar warning (indicators flash & siren (if fitted) beeps for 3 seconds if a door is left ajar i.e. Vehicle's interior light circuit sees door in open position)
- Electric boot release output via remote control – no delay (standard feature is to hold button for 3 seconds)
- Timed headlight delay (optional feature at additional installation cost)
- Multiple vehicle remote control (control 2 cars separately from the 1 remote)
- Central closure (allows electric window / sunroof closure on arming of some vehicles)
- Door lock on ignition (anti hi-jack)
- Perimeter night light (indicators hold on for 20 seconds on disarm)
- Dome Light Extension (interior light turns on for 20 seconds on disarm)
- User programmable override code in case of loss or damage of remotes (over 63,000 possible codes)
- Compatible with Transformer interface for vehicles with factory keyless entry systems. Allows for factory remote controls to arm/disarm the system.
- Compatible with Wireless Keypad to allow arm/disarm of the system without remote controls.

### **Alarm System Features (Optional)**

***These features can be utilised once the optional BBSC Model Back-up Battery Siren is fitted.***

- All points of entry alarm protection (doors, boot, bonnet)
- Personal panic button via remote control (siren sounds & indicators flash)
- In-built 2 stage pre-alert car body impact sensor with ETS™
- Audio discriminating glass break sensor
- Alarm memory (allows recall of the 10 most recent alarm activations in order)
- Auto Bypass (prevents false alarms caused by faulty sensors / or switches)

### **Optional Accessories**

- Backup Battery Siren (Part No: BBSC)
- Internal Cabin Siren (Part No: DPS)
- Ultrasonic Sensors (Part No: UD6)
- Microwave Sensor (Part No: UD5)
- Electronic Tilt Sensor (Part No: TILTSENSE2)
- Paging System (Part No: APAGER)
- Transformer Interface (Part No: TRANS TX)
- Wireless Keypad (Part No: WKPB)

## Detailed Feature Descriptions

### Auto Immobilise

The immobiliser will always automatically activate 38 seconds after the ignition is turned off no matter what. The dash mounted LED will come on constantly to confirm the system has entered auto immobilise mode. The vehicle cannot be started now unless the remote is pressed first. When disarming, if you do not switch the ignition on within 38 seconds, the immobiliser will also enter auto immobilise mode again. **Customers with central locking:** Make sure you watch the indicators flash once when you arm the system. You may wish to discuss with your installer fitting an optional siren (not expensive), so you can hear when you have locked your car. Otherwise, if you take longer than 38 seconds to exit your car & press the remote thinking you are locking it, in fact you will actually be just turning the immobiliser off temporarily & leaving your car unlocked. You must in this instance press your remote a second time to lock your vehicle.

### Automatic re-arm & relock (Programmable)

This feature prevents accidental disarming by the owner i.e. the owner turns the immobiliser off but is then distracted and forgets that they have deactivated the system. If a door is not opened or ignition turned on within 60 seconds from when the system is turned off by the remote, the system will **fully re-arm & re-lock the vehicle**.

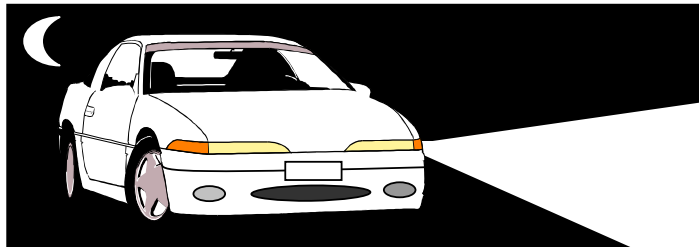
**Note:** The immobiliser will enter auto immobilise mode after 38 seconds (the LED will come on constantly to indicate the vehicle is immobilised). At the 60-second mark, the system will fully arm & the doors will lock – the blinkers will flash once & the siren (if fitted) will beep once & the LED will start flashing.

### Door Ajar Warning (Programmable)

If the vehicles doors are not properly closed when you try to activate your immobiliser system, the indicators will flash for 3 seconds to alert you that the vehicle is not secure. If the optional BBSC siren is fitted, it will also beep for 3 seconds.

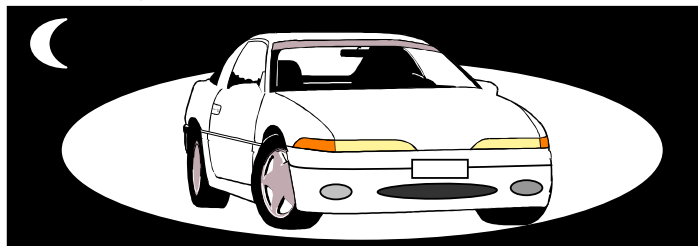
### Timed Headlight Delay (Optional connection by installer at extra cost)

You can have your car headlights turn on automatically for 15 seconds when you arm the immobiliser by remote control. This may allow you for instance to see your way to your front door, or out of a dark car park. You can turn the lights off before the 15-second period ends by pressing the left button on your remote.



### Perimeter Night Light (Programmable)

When this feature is on, the indicators will stay on constantly for 20 seconds on disarm, or until the ignition is turned on. This allows for illumination around the vehicle at night.



### Dome Light Extension (Programmable)

The dome (interior) light comes on automatically when the system is disarmed via remote, enabling the owner to verify the vehicle is safe inside. The light stays on for 20 seconds, or until the ignition is turned on. The dome (interior) light also comes on automatically when the ignition is turned off, enabling the owner to quickly gather belongings before exiting the car. The light stays on for 20 seconds, or until the system is armed via remote, or until the ignition is turned on again. **NOTE:** If you activate the Automatic Rearm & Relock Feature, this feature will be disabled.

### Glass Break Sensor (For Optional Use Along with BBSC Siren)

The RES4601A with the addition of a special cabin microphone incorporates intelligent glass break sensing circuitry. This inbuilt device will trigger the alarm system, provided it registers the correct sound frequency parameters for breaking glass & that the impact sensor also registers a corresponding vibration to the vehicle. This ensures accurate detection of glass breakage.

### **Door Lock On Ignition (Programmable)**

If you have central locking connected, when this feature is on the doors will lock when the ignition is turned to on, and unlock when the ignition is turned to off. This is to prevent anyone but occupants in the vehicle from being able to open the doors.

### **Pre-Alert (2 Stage) Car Body Impact Warning with ETS™** (Only available when optional siren is fitted)

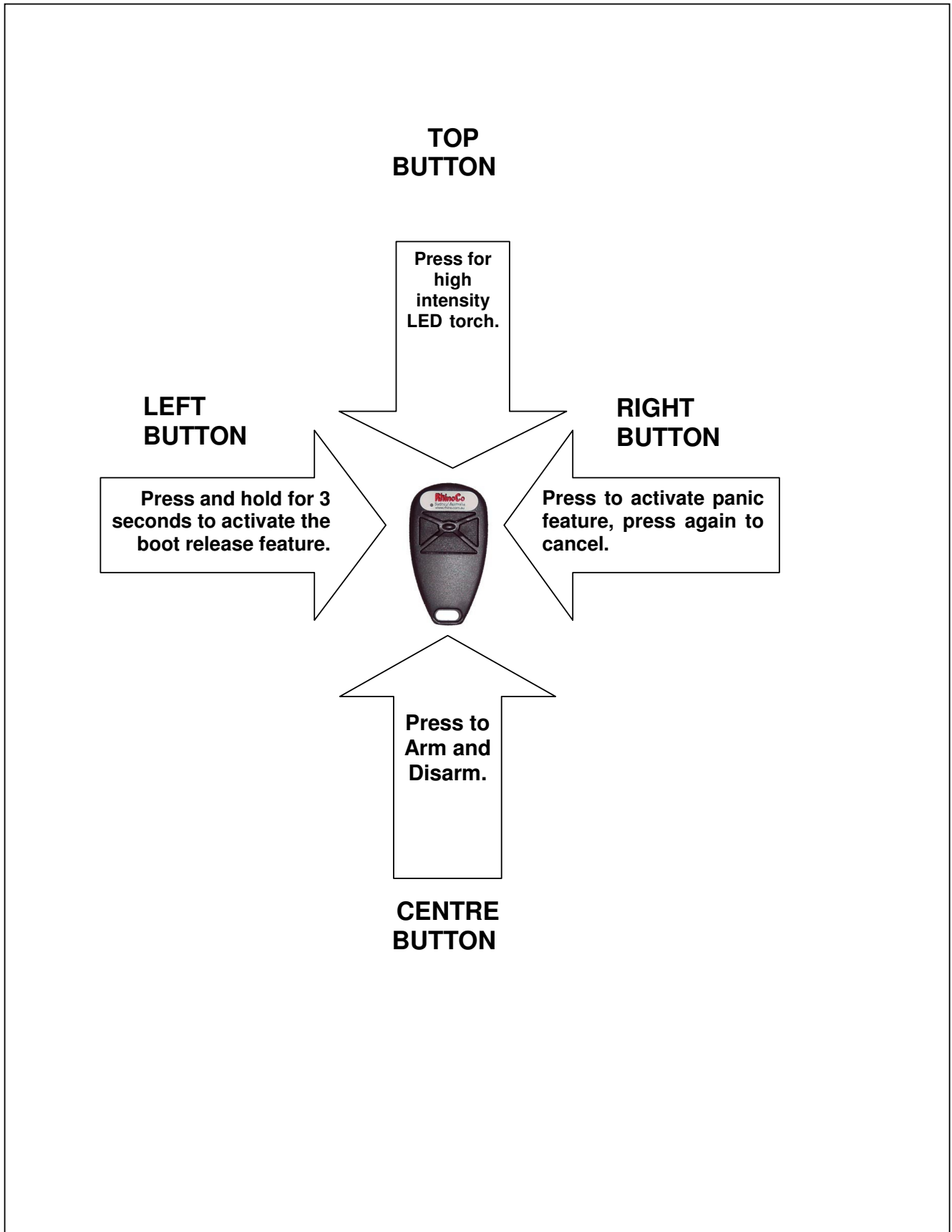
This special feature provides a two-stage impact sensing system. It gives the security conscious owner a sensitive car body impact sensor that will give a potential thief prior warning that the vehicle is protected by this most formidable alarm system. On detection of a low level impact i.e. from a tyre kick, the siren will simply beep for a few seconds to warn away the would-be thief. If the vehicle is attacked any further, the system will move into full siren 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 any thief attempting to break in or other heavy impacts. Furthermore the system features the unique Rhino "Auto Adjust" process, where during the 45 sec. 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 a trouble free sensitivity that ordinary alarms simply cannot provide. The sensitivity level reference point can be adjusted to suit your particular needs. Please refer to the programming section contained later in this manual.

### **Auto Bypass**

Auto bypass is designed to reduce false alarms caused by faulty switches or external sensors. If the alarm is triggered 3 times by the same sector then the particular sector will be bypassed. (i.e. the sector will become inactive.) The sector will only be bypassed for one arming period. The next time the system is armed the sector that was bypassed will become active again.

# Operation

## Remote Control Functions



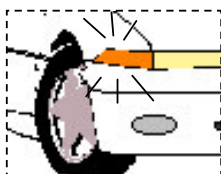
## Arming and Disarming Your Immobiliser

### TO ARM YOUR IMMOBILISER (& lock your vehicle if central locking is connected)

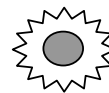
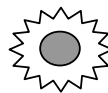
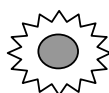
The immobiliser is activated by pressing the **Centre Button** on the remote control transmitter. The blinkers will flash once and (if fitted) the siren will beep once. For silent arm / disarm press both buttons (left and bottom) If central locking is connected, your doors will lock. The dash LED-light will stay on for 20 seconds then flash, **THE IMMOBILISER IS NOW ON.**



Press Centre Button



Blinkers will flash once



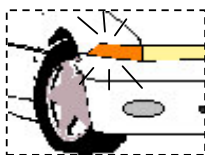
LED COMES ON.....and after 20 seconds starts to flash.

### TO DISARM YOUR IMMOBILISER (& unlock your vehicle if central locking is connected)

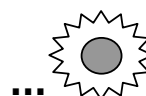
To deactivate the immobiliser, press the **Centre Button**. The blinkers will flash twice and (if fitted) the siren will beep twice. The LED will stop flashing. If central locking is connected, your doors will unlock. **THE IMMOBILISER IS NOW OFF.** **Note:** If the alarm (optional) has been activated in your absence, the siren will beep 4 times on disarm.



Press Centre Button



Blinkers will flash Twice



LED Switches OFF

### EMERGENCY PANIC / CAR FINDER FUNCTION

The panic / car finder feature is activated by pressing the **Right Button** on the remote control transmitter. This causes the indicators to flash (i.e. same as hazard lights). If an optional siren is fitted, it will also sound. To cancel "panic", press the **Right Button** on the transmitter again. **NOTE:** Panic does not work when the ignition is on by requirement of Australian Law (EPA-Environmental Protection Agency).

## Remote Boot Release

*BOOT RELEASE (Optional connection by installer at extra cost)*

This immobiliser is fitted with remote boot release capability for vehicles with existing electric boot release. This feature enables the user to unlock the boot by pressing the **Left Button** for **3 seconds**. The boot will unlock, and the immobiliser will disarm. **NOTE:** For safety reasons the remote boot release will not work when the ignition is on.

**Note:** You can also program the boot to release as soon as you press the **Left Button**.

## Programming Additional Remote Controls / Erasing Lost Remote Controls

Your RES4601a is supplied standard with 2 remote controls. You can use up to a maximum of 5. To add a new remote to your immobiliser, simply follow the procedure below:

1. Turn the vehicle's ignition to on.
2. Immediately press and hold the **Centre Button** on the original remote control until the indicators start to flash (approximately 4 seconds) and then release the button.
3. Immediately press and hold the **Centre Button** on the new remote control for at least 4 seconds.
4. Turn the vehicle's ignition off.
5. The new remote control is now programmed into the immobiliser.

**Erasing Lost Remote Controls:** If you lose a remote control or perhaps have your car keys stolen, you can simply erase the lost/stolen remotes by repeating the procedure above 6 times. This will fill the system memory with remotes that only you have in your possession.

**Learning In a Remote If all Remotes are Lost:** You may learn in a remote without having an already learnt-in remote. Simply perform the Overriding the Immobiliser procedure followed by the remote learning procedure above (from step 2).

## Overriding the Immobiliser

### PROCEDURE:

This feature enables the owner to override their immobiliser in case they have lost their remote controls or they have damaged them. You have the secure choice of over 63,000 possible codes. Refer to Register 2 of the Programmable Feature section of this manual (page 8) on how to choose your own code. **This should be done upon installation.**

#### To enter your override code:

1. Open your driver's door and sit in the car. If you have an optional siren fitted, it will sound. This is normal.
2. Now turn the ignition from on to off an equal number of times to your first code digit (this is a number you have chosen between 3 and 255).
3. Wait for the blinkers to flash once. (This occurs whether you have entered the correct number or not).
4. Now turn the ignition from on to off an equal number of times to your second code digit (this is a number you have chosen between 3 and 255).
5. The immobiliser will now disarm. You must start your car within 38 seconds; otherwise the immobiliser will automatically rearm.

NOTE: Unless a remote control is learnt in, if you turn the ignition off, you will have to repeat this procedure every time you wish to start the car.

## Programming

### How to Program the Selectable Features

Your Rhino Security system incorporates the latest in high security & convenience features. It is possible to customise your security system so that it suits your requirements perfectly. Detailed below is the full list of programmable features that can either be turned on or turned off.

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

**To turn on or turn off any feature use the following procedure:** eg to activate door lock on ignition.

1. Find the REGISTER (1 or 2) in which the feature is located. (E.g. door lock on ignition is located in REGISTER 1).
2. Set the vehicle up as described to access REGISTER 1, (all doors closed, turning ignition on last).
3. After turning the ignition to on, immediately press the **Left Button** an equal number of times to the selected feature's **code** number (eg 3 times for door lock on ignition). Each press of the remote will be confirmed by a flash of the blinkers & the dash LED. If a siren is connected, it will give a confirmation beep.
4. Turn the ignition to off.
5. The system will then confirm which features are activated via visual readout. If a feature is enabled the LED & indicators will flash out its **code** corresponding to the number shown in the column "**Press Remote This Many Times**". The indicators in this example will flash once for arming beep on, then twice for disarm beep on, and then three times for door lock on ignition now being on.



## How to Change REGISTER 1:

Vehicle Set Up: ALL DOORS CLOSED AND THE IGNITION TURNED ON LAST

Remote Key action: TURN ON / OFF FEATURES VIA THE LEFT BUTTON ON THE REMOTE

FEATURE	Press Remote This Many Times	FACTORY SETTING	DESCRIPTION
Arming & Disarming Beeps	1	ON	1 beep on Arm & 2 beeps on Disarm. (If optional siren fitted – contact your Rhino Dealer for more information).
Door Lock on Ignition (Anti-Hijack)	3	OFF	When this feature is on, the doors will lock when the ignition is turned to on, and unlock when the ignition is turned to off.
No Door Ajar Warning	4	OFF	<u>When</u> this feature is <u>on</u> , the door ajar warning feature is removed (the siren – if fitted & indicators will <u>not</u> beep & flash for 3 sec. if a door is not closed properly).
Perimeter Night Light	5	OFF	When this feature is on, the indicators will stay on constantly for 20 seconds on disarm, or until the ignition is turned on. This allows for illumination around the vehicle at night.
Instant Boot Release	6	OFF	When this feature is on, the boot release button (Left Button) will only require be pressing once rather than holding down for 3 seconds to open an electric boot.
Dome Light Extension (Interior lights on when ignition off, interior lights on when system disarmed via remote). <b>Note:</b> This feature cannot be turned on if Auto-Rearm & Relock is activated. See register 2.	8	OFF	The dome (interior) light comes on automatically when the system is disarmed via remote, enabling the owner to verify the vehicle is safe inside. The light stays on for 20 seconds, or until the ignition is turned on. The dome (interior) light also comes on automatically when the ignition is turned off, enabling the owner to quickly gather belongings before exiting the car. The light stays on for 20 seconds, or until the system is armed via remote, or until the ignition is turned on again.
Shock Sensor Adjustment	11	6 SELECT the level required.	After pressing the remote 11 times to enter this mode, turn the ignition to off. There are 8 levels of adjustment. The factory default setting is level 6. Pressing the remote once will increase the sensitivity by one level i.e. to level 7. The LED will then flash seven times to confirm the new level. Pressing the remote again will increase the sensitivity to level 8 (max). Pressing the remote again will return the adjustment to level 1 (least sensitive). Once you have adjusted the sensitivity level to the desired setting, turn the ignition on to exit this mode.
Installer Mode	12	SELECT The Mode Required	<u>After pressing the remote 12 times to enter this mode, turn the ignition to off.</u> 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 & set off the siren. The siren will beep and the blinkers will flash to indicate a trigger eg push the bonnet switch, open a door, hit the vehicle. The siren will beep four times to indicate a pre-warning impact sensor detection, or once to indicate full alarm trigger level. <u>Turn the ignition to on to exit this mode.</u>
PAT™ Past Alarm Trigger Memory	13	SELECT to replay memory	After pressing the remote 13 times to enter this mode, turn the ignition off. Your Rhino Alarm offers a unique memory that stores the ten last reasons why the alarm was triggered. This memory cannot be erased. 1 Beep, 1 Flash - Voltage Drop Alarm 2 Beep, 2 Flashes - Glass Break Alarm 3 Beep, 3 Flashes - Shock Sensor Alarm 4 Beep, 4 Flashes - Power Fail Alarm 5 Beep, 5 Flashes - Ignition Alarm 6 Beep, 6 Flashes - Aux Alarm 7 Beep, 7 Flashes - Door Alarms 8 Beep, 8 Flashes - Bonnet / Boot Alarm If two previous alarms were recorded i.e. voltage drop and shock sensor the LED will flash and the siren will beep once for voltage drop, then no noise for 1 second then beep three times for shock sensor. <b>The last memory heard is the most recent alarm sector triggered.</b> Turn the ignition to on to exit this mode.

Current Sense Override	15	ON	When this feature is on, the alarm will not trigger when a sudden change in battery current is sensed. NOTE: This will ONLY beep out the state of this feature i.e. no other active features in the register will be beeped out. i.e. if this feature is NOT on, then NO beeps will be heard.
Wireless Keypad Mode	18	OFF	When this feature is turned on then the Wireless Keypad may be used to disarm the vehicle while still using the standard factory remotes to lock and unlock the vehicle. See the Wireless Keypad instructions for further details. If this featured is turned on then a single beep will be produced. If this feature is turned off then no beeps will be heard.
Transformer Interface	19	OFF	When this feature is turned on then the Transformer module may be interfaced to allow the user to arm and disarm their vehicle via the factory remote control. NOTE: If the Transformer module was supplied with the unit, then this feature would have been turned ON by default. If this featured is turned on then a single beep will be produced. If this feature is turned off then no beeps will be heard.

## How to Change REGISTER 2:

**Vehicle Set Up:** DRIVER'S DOOR OPEN, AND THE IGNITION TURNED ON LAST

**Remote Key action:** TURN ON / OFF FEATURES VIA THE LEFT BUTTON ON THE REMOTE

FEATURE	Press Remote This Many Times	FACTORY SETTING	DESCRIPTION
Centre button disabled.	1	OFF	Stop button centre button from arming and disarming, not normally used.
LEFT Button Used To Arm/Disarm This Vehicle	2	OFF	This is activated if you have two cars with Rhino remote controls, the vehicle that this is feature is activated on will use the left button to arm disarm and loose the ability to activate the boot release output.
Impact Sensor	3	ON	Activate 2 Stage Impact sensor & glass break sensor.
Automatic Rearm & Relock	4	OFF	This feature prevents accidental system disarming & will relock the doors if a door is not opened within 60 seconds. See page 2 for full function description. If you activate this feature, dome light extension will be turned off automatically. <b>Installers must wire up the door circuit to function.</b>
Timed Negative on Arm (Headlight Timer - 15 sec)	5	OFF	When on, this feature changes the <b>-ARM</b> wire from being a <b>constant negative on arm</b> to a <b>timed 15 second negative on arm wire</b> . This will allow you to connect this wire via a relay (see diagram on page 15) to your headlight circuit, so that when you arm your immobiliser, your headlights will turn on for 15 seconds to illuminate your path, and then automatically switch off. (You can press the LEFT button on your remote to turn the lights off before the 15-second period). You can still connect window lift modules to this wire, as long as it takes no longer than 15 seconds to wind up the windows in the car.
Selectable Indicator Flash	6	ON	When off, this feature prevents the indicators from flashing when the system is triggered.
Extended Lock Pulse (Central Closure)	7	OFF	When on, the lock output becomes a 15 second negative pulse instead of 0.5 seconds. This feature is for certain vehicles with vacuum central locking or those with a central closure wire (some BMW, Mercedes) i.e. doors lock, electric windows wind up, sunroof closes automatically.
Extended Unlock Pulse	8	OFF	When on, the unlock output becomes a 15 second negative pulse instead of 0.5 seconds. This feature is for certain vehicles with vacuum central locking.
Override Code	14	(3) (4)	<p>This feature enables the owner to set their own individual code to override their immobiliser in case they have lost their remote controls or they are have stopped working. You have the secure choice of over 63,000 possible codes. To set a new code:</p> <ol style="list-style-type: none"> <li>1. After pressing the remote 14 times to enter this mode, turn the ignition off. The blinkers will flash once to confirm you have entered the override code entry mode.</li> <li>2. Now turn the ignition from on to off anywhere from 3 to 255 times i.e. 11 times</li> <li>3. Wait for the blinkers to flash once.</li> <li>4. Now turn the ignition from on to off anywhere from 3 to 255 times i.e. 36 times</li> <li>5. Wait for the blinkers to flash once.</li> <li>6. You have changed the override code from the factory setting of (3)(4) to (11)(36).</li> <li>7. Make sure you remember the new override number! Do not record it anywhere where a would-be thief may find it in your car.</li> </ol> <p><b>NOTE:</b> The driver's door must be left open throughout this procedure.</p>

## **WARRANTY TERMS & CONDITIONS**

RhinoCo Technology (The Company) warrants its products to be in conformance with its own plans and specifications and to be free from defects in materials and workmanship under normal use and service for 12 months from the date stamp control on the product, or for products not having a date stamp, for twelve months from the date of original purchase unless the installation instructions or catalogue sets forth a shorter period, in which case the shorter period shall apply. The Company's obligation shall be limited to repairing or replacing, at its option, free of charge for materials or labor, any part which is proved not in compliance with The Company's specifications or proves defective in materials or workmanship under normal use and service. The Company shall have no obligation under this Limited Warranty or otherwise if the product is altered or improperly repaired or serviced by anyone other than The Company.

For warranty service, return transportation prepaid, to RhinoCo Technology, 9 Hannabus Place McGraths Hill NSW 2756 Australia.

There are no warranties, expressed or implied, of merchant ability, or fitness for a particular purpose or otherwise, which extend beyond the description on the face hereof. In no case shall The Company be liable to anyone for any consequential or incidental damages for breach of this or any other warranty, express or implied, or upon any other basis of liability whatsoever, even the loss or damage is caused by its own negligence or fault.

The Company does not represent that the products it sells may not be compromised or circumvented; that the products will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; or that the products will in all cases provide adequate warning or protection. Customer understands that a properly installed and maintained alarm system may only reduce the risk of a burglary, robbery, or fire without warning, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss as a result.

Consequently, The Company shall have no liability for any personal injury; property damage or other loss based on a claim the product failed to give any warning. However, if The Company is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regard less of cause or origin, The Company's maximum liability shall not in any case exceed the purchase price of the product, which shall be the complete and exclusive remedy against The Company.

This warranty replaces any previous warranties and is the only warranty made by The Company on this product. No increase or alteration, written or verbal, of the obligations of this Limited Warranty is authorised.

