INSTRUCTION MANUAL FOR

Rhino GT V2.0

Code Hopping Remote Control Car Alarm, with Engine Immobilsation, Backup Battery, Two Stage Impact Sensor & Fully Programmable Features.

N517

Designed & Engineered in Australia

Build Date:

HIGH SECURITY SWITCH

Located in the rear of the siren is a master switch. This can be used to turn the system on/off. Bear in mind that if you unplug the alarm while it is armed, the built in backup battery will continue to power the system.

KEYSWITCH POSITIONS	
SYSTEM OFF	SYSTEM ON
	TURN CLOCKWISE

TO ARM/DISARM ALARM

The alarm is activated by pressing the **LEFT** button **(Marked with a 1)** on the remote control transmitter. The blinkers will flash once, and the siren will beep once. The dash LED-light will stay on for 20 seconds then flash, THE ALARM IS NOW ON. To deactivate the alarm, press the LEFT button again. The blinkers will flash twice and the siren will beep twice. THE ALARM IS NOW OFF.

For audible arm / disarm use the **LEFT** button.

For silent arm / disarm press **BOTH** buttons (1 & 2) together.

BOOT RELEASE FUNCTION

(Available only on cars fitted with an electric boot release motor).

The alarm is fitted with remote boot release opening capability. This feature enables the user to unlock the boot by pressing the **RIGHT** button **(Marked with a 2)** for **3 seconds**. The boot will unlock and the alarm will disarm with audible beeps. NOTE: For safety reasons the remote boot release will not work when the ignition is turned on.

EMERGENCY PANIC BUTTON

The panic feature is activated by pressing the **LEFT** button on the remote control transmitter for 3 seconds This sets off the siren. To cancel "panic", press the **LEFT** button on the transmitter for 1 second NOTE: Panic does not work when the ignition is on by requirement of Australian Law (EPA-Environmental Protection Authority).

BACKUP BATTERY TEST

The alarm is fitted with an intelligent battery backup test feature. When you turn the ignition to on, the alarm does a diagnostic check on the backup battery. If the charge is below an acceptable level, then the dash LED will flash for the first 5 seconds when the ignition is turned on.

PAT™ 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 blinkers four times on disarm. The system will also store the ten last times the alarm has been activated in its memory, and can tell you what has triggered the system. Please refer to "Features used by Users and Installers" contained later in these instructions.

PRE-ALERT IMPACT WARNING WITH ETS™

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 20 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 can not 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.

DOOR AJAR WARNING FEATURE

If the vehicles doors are not properly closed when you try to activate your alarm system, the blinkers will flash and the siren will continuously beep for 3 seconds to alert you that the vehicle is not secure.

PROGRAMMABLE FEATURES

The features outlined below are the most popular that can be turned on or off to suit your requirements. Please refer to the section is this manual marked “Rhino Programmable Features” for full details.

PASSIVE ARMING: The alarm can automatically arm itself one minute after you leave your vehicle provided that the ignition is turned off, and that at least one door has been opened and closed ie. the owner has parked and has exited the vehicle. This feature **will not lock** the vehicle where central locking is connected.

AUTOMATIC RE-ARM FEATURE: This feature prevents accidental disarming by the owner ie. the owner turns the alarm off but is then distracted and forgets that they have deactivated the system. If a door is not opened within one minute from when the system is turned off by the remote, the system will **re-arm** and if central locking is connected it **will re-lock** the vehicle.

AUTO IMMOBILISE: Enables the alarm system to act as an engine immobiliser only. The immobiliser activates 38 seconds after the ignition is turned off. The dash mounted LED will stay on constantly to confirm the system’s special status. The vehicle can not be started unless the remote is pressed. If the remote is pressed again, the alarm will arm & lock the doors as per normal operation. Particularly useful feature for tradespeople.

DOOR LOCK ON IGNITION: 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. (Where central locking is connected).

PERIMETER NIGHT LIGHT: 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: When this feature is on, the boot release button (right) will only require to be pressed once rather than held down for 3 seconds to open an electric boot.

LEARNING NEW TRANSMITTERS

To add a new transmitter to your alarm, simply follow the procedure below:
A. Turn the vehicle’s ignition on.
B. Immediately press and hold the LEFT button on the original remote control until the siren starts to beep (approximately 4 seconds) and then release the button.
C. Immediately press and hold the LEFT button on the new remote control for at least 4 seconds.
D. Turn the vehicle’s ignition off.
E. The new remote control is now programmed into the alarm.

Rhino Car Alarm Model: GT

STANDARD SYSTEM FEATURES

~ All Microprocessor Controlled
~ Rolling Code Technology (Anti-Scanning, Anti-Code Grabbing)
~ Two SSR™ Solid State Remote Controls with Multi Function Operation
~ Long Life Lithium Cell Remote Control Batteries
~ Ultra-Bright Red Flashing LED Light
~ Personal Panic Button via Remote Control
~ Automatic Siren Reset Period (30 Seconds)
~ Visual Arming and Disarming via Blinkers
~ All Points of Entry Protection
~ PAT™ Past Alarm Trigger Memory History Reporting Mode
~ Service and Override Mechanical Keyswitch
~ Safety Circuit Prevents Arming While Ignition On
~ Learning Mode for Optional Transmitters (Remote Controls)
~ Negative Pulse Central Locking Outputs
~ Engine Immobilisation
~ Battery Backup System
~ Automatic Battery Test via Dash LED Light
~ Two Stage Shock Sensor

SELECTABLE SYSTEM FEATURES (Can be turned on or off)

~ Arming and Disarming Confirmation Beep
~ Passive Arming
~ Auto Immobilise
~ Door Ajar Warning (If a Door is Left Open)
~ Automatic Re-arm in case of Accidental Disarm
~ Auto Re-lock for Accidental Disarm where Central Locking is connected
~ Quiet Arming Selectable via Remote Control
~ Impact Sensor and Ultrasonic Isolation
~ Electric Boot Release Output - Instant or 3 Seconds
~ Lock Pulse on Alarm Trigger
~ Multiple Vehicle Remote Controls
~ Silent Operation
~ Valet Mode
~ Central Closure
~ Door Lock on Ignition
~ 2 Second Exit Delay
~ Perimeter Night Light
~ External Pre-Warn Output
~ Selectable Current Sensing Circuit
~ Passive Arm From Ignition Only
~ Shock Sensor Sensitivity Adjustment By Remote

PROGRAMMABLE 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, or the override keyswitch is turned to off. This includes the Past Alarm Trigger Memory.

To turn on or turn off any feature use the following procedure: eg to disable passive arming.

1. Find the REGISTER (1, 2 or 3) in which the feature is located. (eg passive arming is located in REGISTER 1).
2. Set the vehicle up as described to access REGISTER 1, (doors closed, bonnet closed, turning the ignition on last).
3. Press the LEFT remote control button an equal number of times to the selected feature's **code** number (eg 5 times for passive arming).
4. Turn the ignition to off.
5. The system will then confirm which features are activated via audible readout. If a feature is enabled the siren will chirp out its **code** in beeps from the siren corresponding to the number shown in the column "**Press Remote This Many Times**". The siren in this example will beep in order Once, then Twice, etc. up to Eight times. The system misses the passive arming code of 5 Beeps as this feature has been disabled. **Please note** that feature 9 is excluded from the confirming number of beeps on all 3 Registers.

How to Change REGISTER 1:

Vehicle Set Up: ALL DOORS CLOSED, BONNET CLOSED, AND THE IGNITION TURNED ON LAST
Remote Key action : TURN ON / OFF FEATURES VIA THE LEFT BUTTON ON THE REMOTE

PROGRAMMABLE FEATURE	Press Remote This Many Times	INITIAL FACTORY SETTING	DESCRIPTION
Arming Beep	1	ON	1 Beep on Arm
Disarm Beep	2	ON	2 Beeps on Disarm
Auxiliary Detection	3	ON	Activate Ultrasonics, Microwave if fitted.
Shock Sensor	4	ON	Activate Two Stage Shock Sensor.
Passive Arm	5	OFF	System arms automatically 60 seconds after exit - the doors will not lock.
Auto Re-arm	6	OFF	If system is disarmed and a door is not opened within 60 seconds, the system will rearm & relock.
Lock Pulse on Alarm Trigger	7	ON	When the alarm is triggered, the doors will be sent a lock pulse. ie 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 would be 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 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 ie 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.

How to Change REGISTER 2:

Vehicle Set Up: DRIVER'S DOOR OPEN, BONNET CLOSED, AND THE IGNITION TURNED ON LAST
Remote Key action : TURN ON / OFF FEATURES VIA THE LEFT BUTTON ON THE REMOTE

PROGRAMMABLE FEATURE	Press Remote This Many Times	INITIAL FACTORY SETTING	DESCRIPTION
Right 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. left button controls vehicle "A", right button controls vehicle "B". - 5 - Simply "teach" the remote into the other vehicle as detailed in section "learning new transmitters". Only LEFT button features can be accessed. (i.e. boot release control is unavailable).
Right Button Used To Arm/Disarm This Vehicle	2	OFF	Turn this feature on in your second vehicle (not this alarm system) if you are utilising 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 etc. Indication via optional paging system may be desired instead of siren noise.
Valet Mode	6	OFF	When on, this feature allows five engine starts before the system returns to its normal operation ie if you take the vehicle to valet parking, and you normally use passive arming, they will be able to start the car 5 times before passive arming re-engages.
Central Closure	7	OFF	When on, the lock & unlock outputs become 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) ie doors lock, electric windows wind up, sunroof closes automatically.
Auto Immobilise	8	OFF	Enables the alarm system to act as an engine immobiliser only. The immobiliser activates 38 seconds after the ignition is turned off. The dash mounted LED will stay on constantly to confirm the system's special status. The vehicle can not be started unless the remote is pressed. If the remote is pressed again, the alarm will arm & lock the doors as per normal operation. Particularly useful feature for tradespeople.
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 & 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. Turn the ignition to on to exit this mode.

How to Change REGISTER 3:

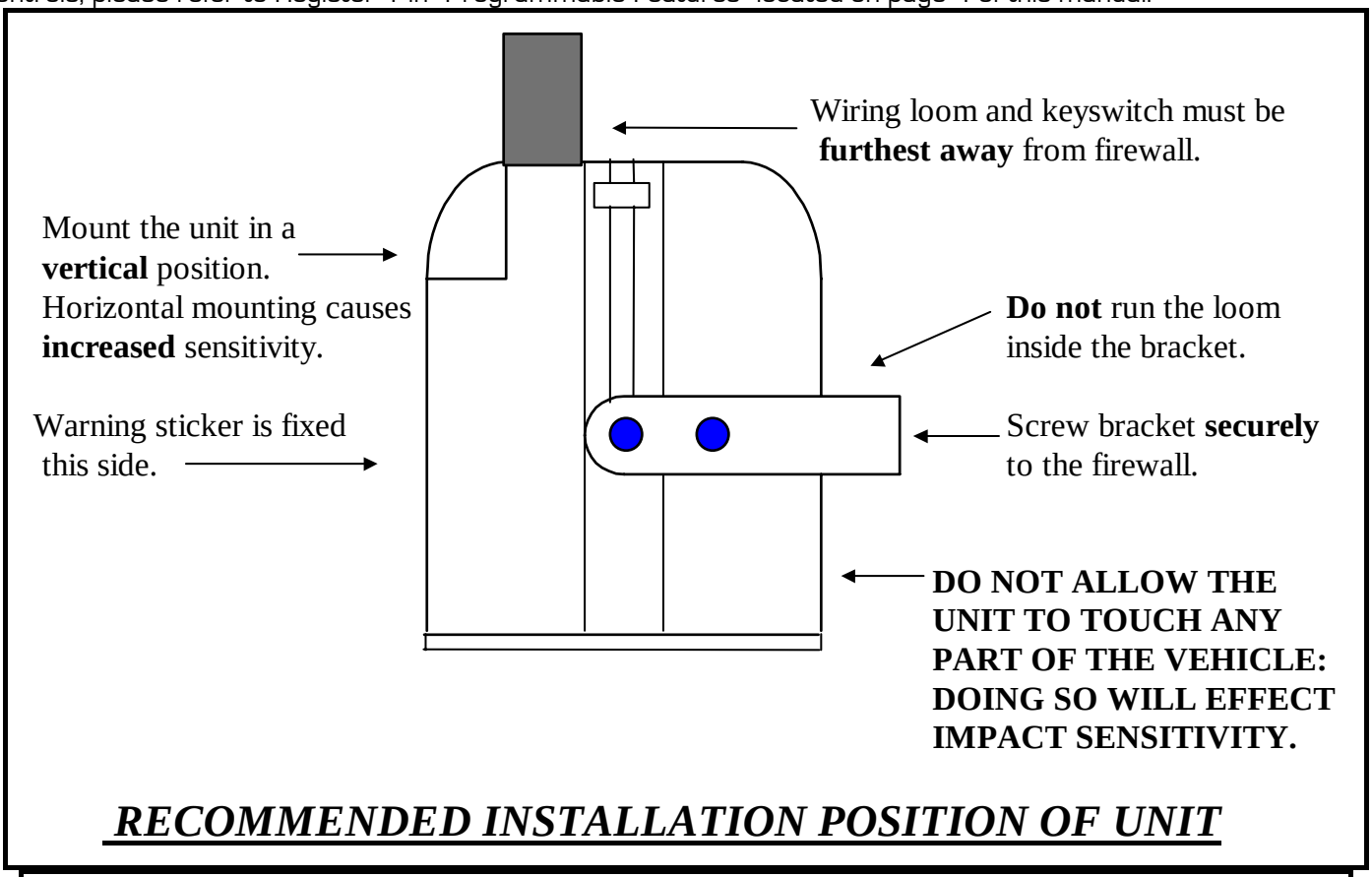
Vehicle Set Up: DRIVER'S DOOR OPEN, BONNET OPEN , AND THE IGNITION TURNED ON LAST
Remote Key action : TURN ON / OFF FEATURES VIA THE LEFT BUTTON ON THE REMOTE

PROGRAMMABLE FEATURE	Press Remote This Many Times	INITIAL FACTORY SETTING	DESCRIPTION
Current Sensing Override	1	OFF	If activated, this feature prevents the alarm triggering via sensing a drop in voltage in the vehicle's electrical system. This may be necessary where engine thermo fans cut in automatically or there are other accessories active even when the ignition is turned off eg fridges, car phones.
Door Lock on Ignition	2	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.
2 Second Exit Delay	3	OFF	When this feature is on, the normal 20 second exit delay is reduced to 2 seconds ie the alarm is fully armed 2 seconds after pressing the remote.
No Door Ajar Warning	4	OFF	When this feature is on, the door ajar warning feature is removed (the siren & indicators will not beep & flash for 3 sec. if a door is not closed properly).
Passive Arm from Ignition Off Only	5	OFF	When this feature is on, the system arms automatically 60 seconds after exit -even though the doors are not closed - the doors will not lock.
Perimeter Night Light	6	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	7	OFF	When this feature is on, the boot release button (right) will only require to be pressed once rather than held down for 3 seconds to open an electric boot.
External Pre-Warn Output	8	OFF	When on, the internal alarm pre-warn is disabled & a two second output from the boot wire is given.
PAT™ Past Alarm Trigger Memory	9	SELECT to replay memory.	After pressing the remote 9 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 - Not Used On This Model 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 ie 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. **The last memory heard is the most recent alarm sector triggered.** Turn the ignition to on to exit this mode.

FEATURES USED BY INSTALLERS / SERVICEMEN

1. INSTALLER / SERVICE MODE:
Service mode is accessed by turning the key switch to the off position. This enables complete deactivation of the system without using the remote control. This is normally done when other mechanical/electrical work is performed on the vehicle. Installer mode is used to quickly test and fault find; it is used to check each sector input when door, hood, aux or voltage drop is triggered. A signal is given via the blinkers, the dash LED light and the siren. See Register 2 in programming.

2. RECOMMENDED MOUNTING INSTRUCTIONS: The recommended position to mount the unit is **vertically** as illustrated below. Where possible, mount the unit as close as possible to the centre of the firewall. Unit should be at least 25cm away from high tension leads, distributor, or ignition coil. Keep the unit away from water run off areas such as overflow bottles & drain tubes. **Horizontal** mounting **increases** the sensitivity of the shock sensor. **IMPORTANT:** Do not allow any part of the vehicle to touch the unit - no hosing, wiring, or other car components should be able to touch or rub on the unit, as this will affect the sensitivity of the shock sensor. The unit must only be connected to the vehicle by the mounting bracket. To adjust the sensitivity level of the impact sensor via the remote controls, please refer to Register 1 in "Programmable Features" located on page 4 of this manual.

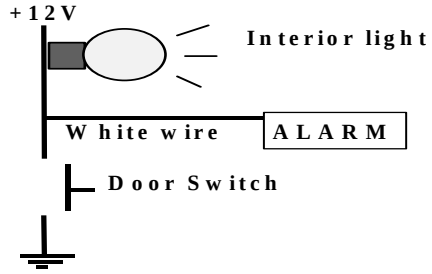


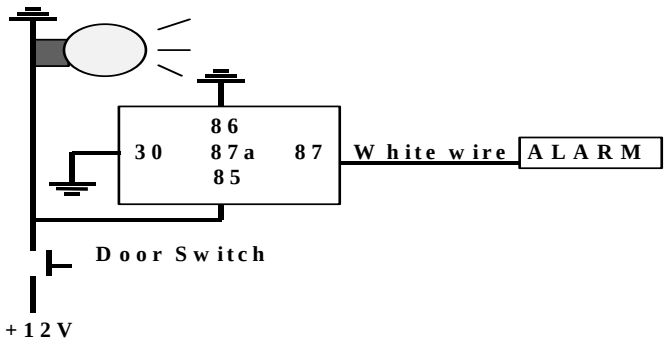
RECOMMENDED INSTALLATION POSITION OF UNIT

IMPORTANT NOTE FOR INSTALLERS*: *Vehicles fitted with negative or positive switching doors.

In order for the alarm system to function correctly, it is necessary for the doors to be hard wired to the system. Please follow the wiring diagrams below:

NEGATIVE SWITCHING DOORS: **POSITIVE SWITCHING DOORS:** Use relay.





WIRING INSTRUCTIONS FOR GT ALARM

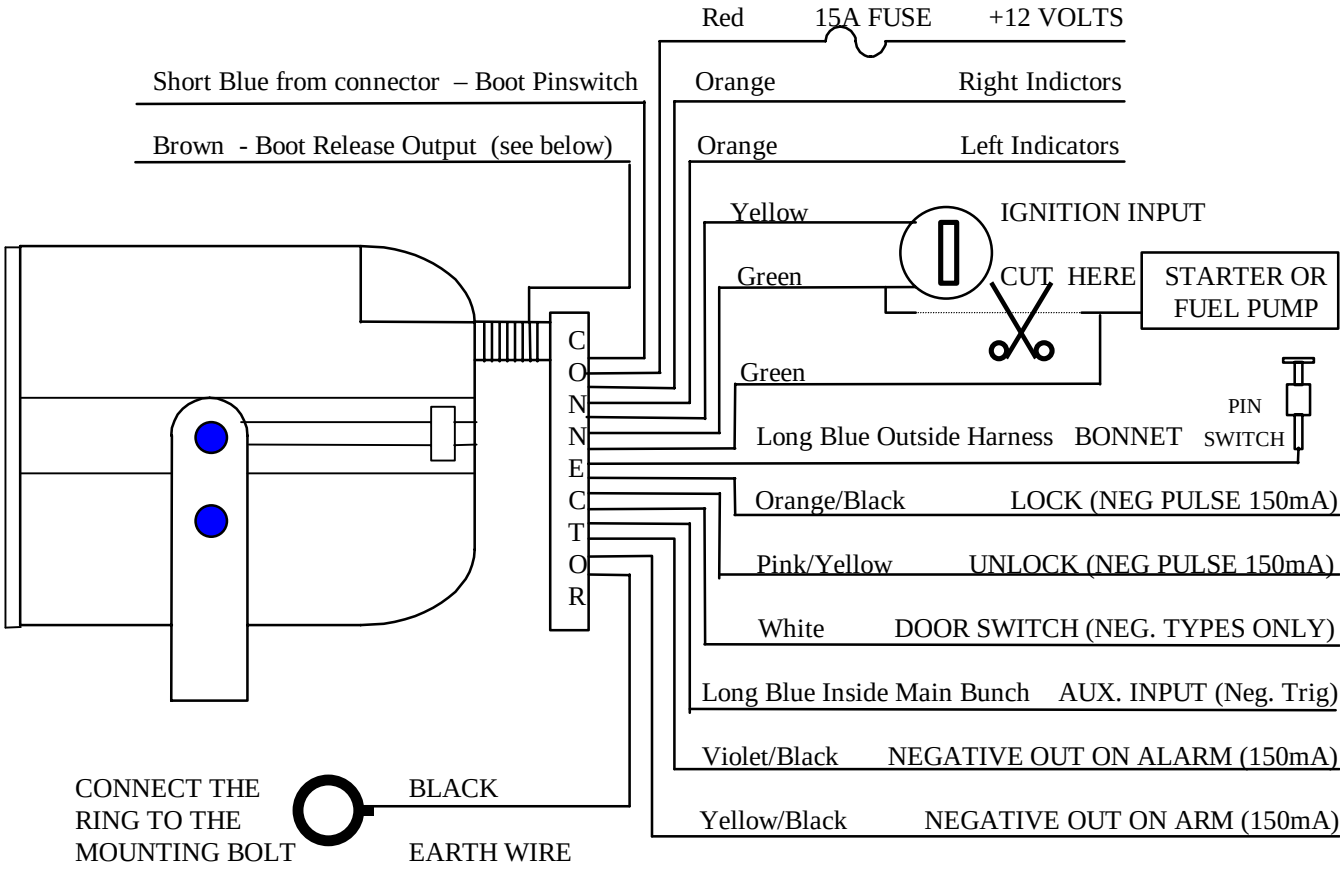
RED	-	CONNECT TO CONSTANT +12 VOLTS VIA THE FUSE BOX AT THE POINT WHERE THE INTERIOR LIGHT CIRCUIT IS POWERED. CURRENT (VOLTAGE) SENSING WILL NOT WORK IF THIS PROCEDURE IS NOT FOLLOWED.
BLACK	-	CONNECT TO A SUITABLE EARTH ON THE CAR BODY (MOUNTING BOLT)
ORANGE (x2)	-	CONNECT TO THE LEFT AND RIGHT INDICATOR CIRCUITS OF THE VEHICLE TO FLASH THE INDICATORS
YELLOW	-	CONNECT TO A +12 VOLTS IGNITION SWITCHED LEAD, WHICH ***DOES NOT FALL TO 0 VOLT WHEN THE ENGINE IS CRANKED***
WHITE	-	CONNECT TO EXISTING DOOR SWITCHES. (**PLEASE NOTE:** ONLY NEGATIVE SWITCHING DOORS, IF POSITIVE DOOR SWITCHING - MUST USE RELAYS TO REVERSE TO NEGATIVE - SEE DIAGRAM CONTAINED LATER IN THIS MANUAL)
LONG BLUE (Outside main harness)	-	CONNECT TO PINSWITCH FOR BONNET
LONG BLUE (Taped up in main harness)	-	THIS IS A NEGATIVE TRIGGER INPUT, AND SHOULD BE CONNECTED TO THE OUTPUT CIRCUIT WIRE ON ANY AUXILLIARY SENSOR BEING USED. (ie ULTRASONIC OR MICROWAVE, DETECTORS, ETC.).
SHORT BLUE (From main harness connector plug)	-	CONNECT TO PIN SWITCH FOR BOOT (**PLEASE NOTE:** ALTERNATIVELY YOU MAY WISH TO WIRE THE BOOT TO THE DOOR SWITCHES: THIS WILL PROVIDE "DOOR AJAR" WARNING ON THE BOOT, AND ALSO SIGNAL THE AUTO RE-ARM FEATURE TO CANCEL IF THE BOOT IS OPENED BY THE OWNER ON DISARMING THE SYSTEM.)
GREEN (X2)	-	LOCATE THE POSITIVE FEED WIRE TO THE STARTER SOLENOID, CUT THAT WIRE AND JOIN THE TWO GREEN WIRES TO EITHER END OF THE STARTER FEED WIRE WHICH YOU HAVE JUST CUT **WARNING:** CUT OUT RELAYS HAVE 12A MAX RATING. DISABLE ONLY STARTER SOLENOID, FUEL PUMP, OR IGNITION COIL IF VEHICLE IS NOT EFI. **UNDER NO CIRCUMSTANCES SHOULD YOU CUT THE VEHICLE'S MAIN IGNITION SYSTEM.**
YELLOW/ BLACK	-	THIS IS A SWITCHED NEGATIVE OUTPUT ON ARM (-VE 150mA). CONNECT TO THE NEGATIVE WIRE (USUALLY BLACK) ON ANY ACCESSORY USED ie. ULTRASONIC OR MICROWAVE DETECTORS ETC.
BROWN	-	THIS IS THE NEGATIVE OUTPUT (150mA MAXIMUM) FOR THE BOOT RELEASE. PLEASE REFER TO THE ILLUSTRATED DIAGRAM FOR CONNECTION DETAILS.
VIOLET/BLACK	-	NEGATIVE TRIGGER ON ALARM TO BE USED TO INTERFACE TO PAGER OR ADDITIONAL SIREN (150mA MAXIMUM)
ORANGE/BLACK	-	NEGATIVE PULSE LOCK SIGNAL
PINK/YELLOW	-	NEGATIVE PULSE UNLOCK SIGNAL

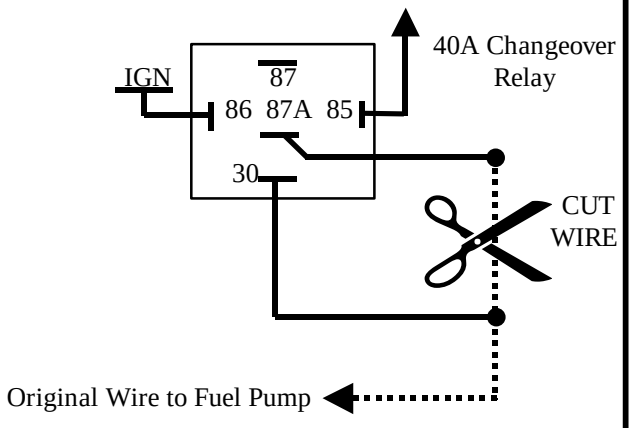
CURRENT SENSING

The alarm is fitted standard with current sensing. This feature incorporated in Rhino systems has been proven to be very reliable. The alarm will detect any sudden drop in voltage in the vehicle's electrical system, for example if the interior light comes on, or if the electrical system shows a voltage drop through tampering.

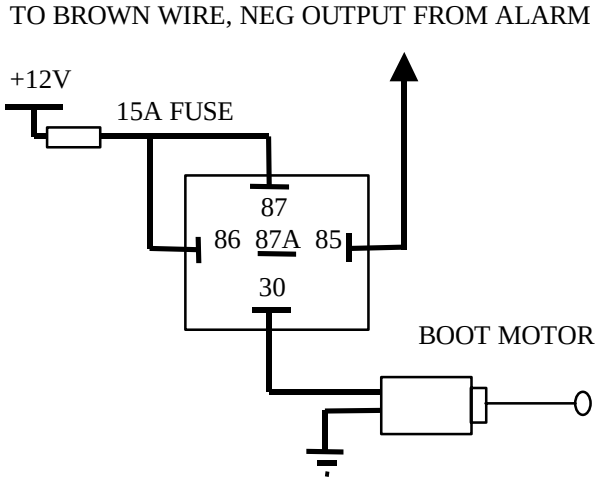
PLEASE NOTE: If removal of this feature is necessary i.e. if engine cooling fans run after the ignition key is turned off, please refer to Register 3 in the Programmable Features section of this manual. You are able to disable the current sensing feature so that a false alarm condition can not occur.

GT ALARM WIRING DIAGRAM





OPTIONAL FUEL PUMP CUT OUT RELAY

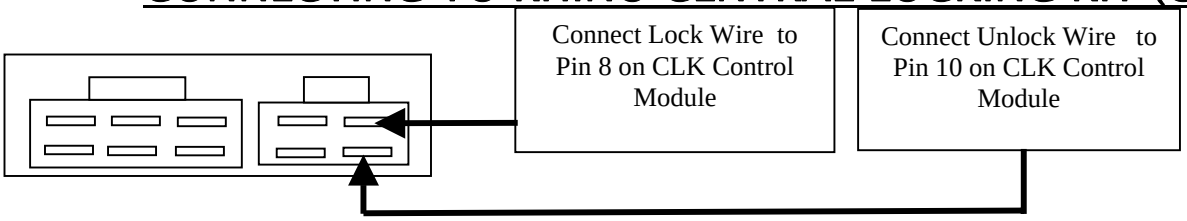


OPTIONAL BOOT RELEASE WIRING DIAGRAM
(For vehicles with electric boot motors)

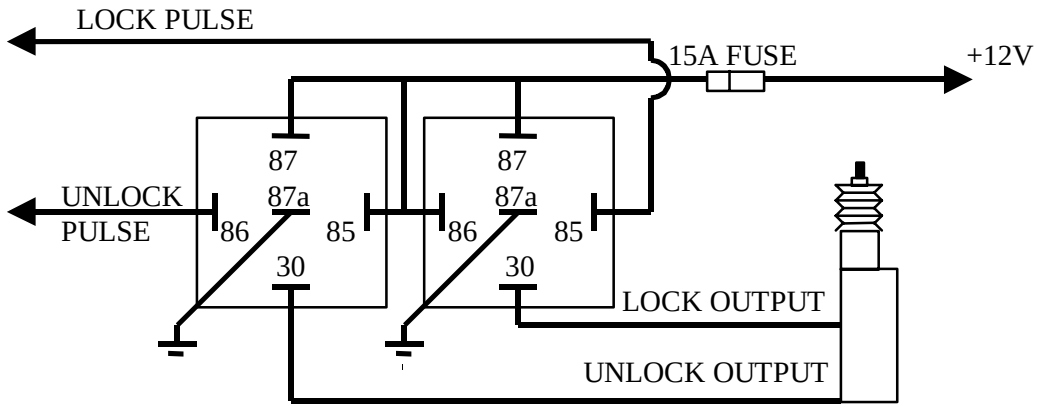
CENTRAL LOCKING CONNECTION DIAGRAMS FOR RHINO GT CAR ALARM

All relays depicted are changeover type.

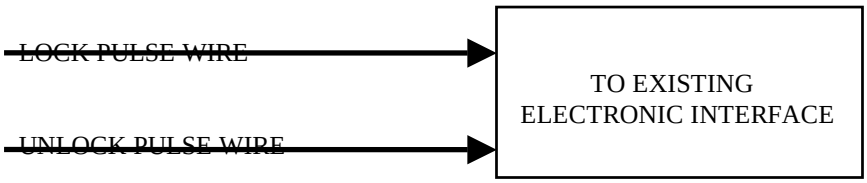
CONNECTING TO RHINO CENTRAL LOCKING KIT (CLK)



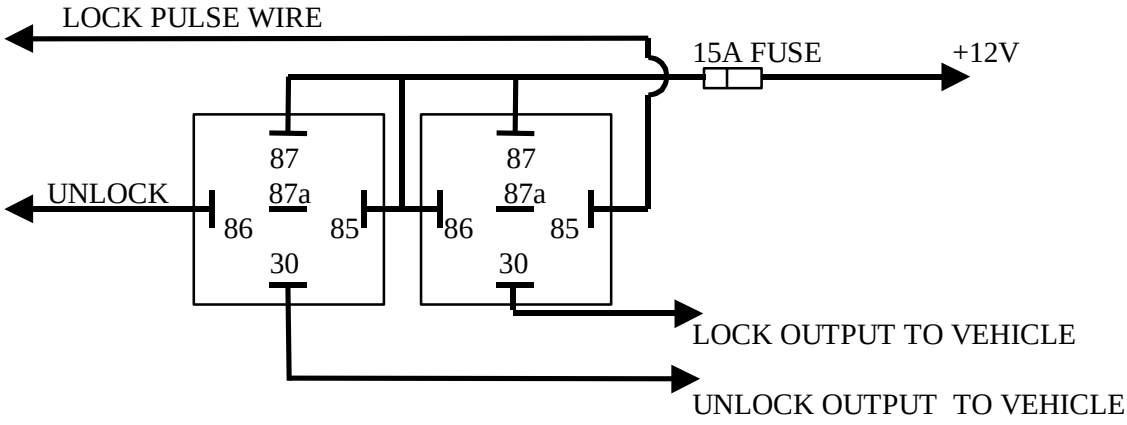
INSTALLING A NEW MOTOR – often required in vehicles that have factory locking but have no motor in the driver's door, or you would like "keyless entry" on driver's door.



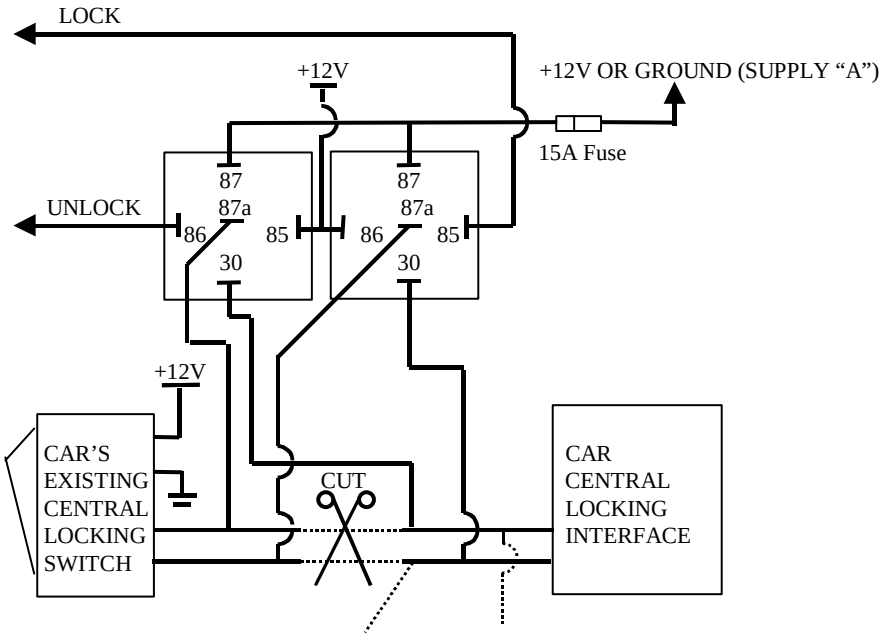
NEGATIVE TRIGGER" ORIGINAL CENTRAL LOCKING SYSTEM (LOW CURRENT)



FOR INTEFACING TO "POSITIVE PULSE" CENTRAL LOCKING SYSTEMS

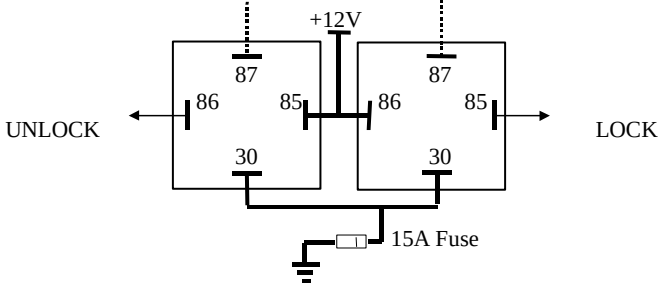


FOR POSITIVE AT REST THEN GOING NEGATIVE "OR" NEGATIVE AT REST THEN GOING POSITIVE PUT 87'S TO 12V & CONNECT RELAYS AS SHOWN

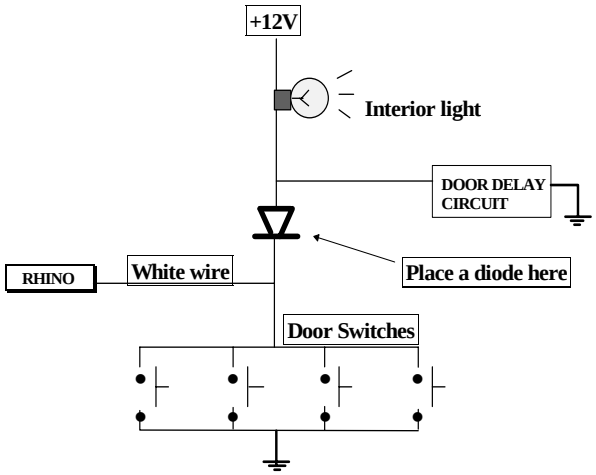


FOR FLOATING SWITCHES - NEITHER +12V OR GROUND AT REST

Hook up the following extra relays & connect Supply "A" to +12V. Both pairs of lock / unlock wires must be connected.

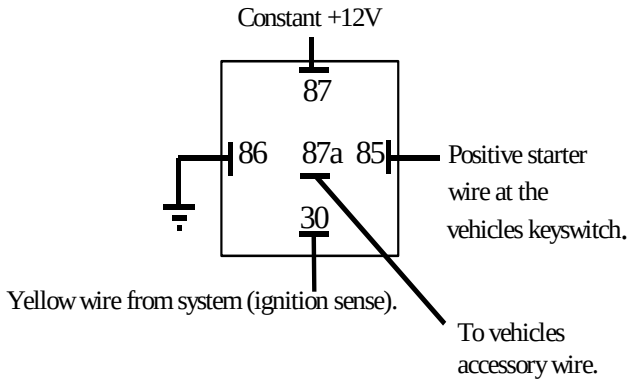


IMPORTANT NOTE: Vehicles fitted with an interior light delay.
Vehicles fitted with an interior light delay require a diode to be added to prevent the system giving a door ajar warning.
Please follow the wiring diagram below:



VEHICLES FITTED WITH TURBO TIMERS:

It is necessary to fit a relay as shown below to allow the system to arm while the car is still running on a timer.



N.B. It will also be necessary to override current (voltage) sensing.
Please refer to section 3 of programmable features on page 6.
You may also need to adjust the impact sensor sensitivity, to prevent triggering when the engine stops.

APPENDIX A: STANDARD OPERATION ON INSTALLATION & MAKING THE MOST COMMON PROGRAMMING CHANGES

ACTION	RESPONSE	OPTIONS AVAILABLE	HOW TO MAKE THE CHANGE (Alarm must be disarmed before changing programming) Refer to section marked "Rhino Programmable Features" for futher details.
Press the left button on the remote control once while the system is disarmed.	The siren beeps once & the indicators flash once. The LED comes on - it will begin to flash after 20 seconds (The alarm is now armed) Doors will lock where central locking is connected.	You can disable the arming beep so that only the indicators flash. You can change the exit delay from 20 seconds to 2 seconds.	Sit in the car. Close all doors. Bonnet closed. Turn the ignition on. Press the left button on the remote once. Turn the ignition to off. Sit in the car. Driver's door open. Bonnet open. Turn the ignition on. Press the left button on the remote 3 times. Turn the ignition to off.
Press the left button on the remote control once while the system is armed.	The siren beeps twice & the indicators flash twice. (The alarm is disarmed). Doors will unlock where central locking is connected.	You can disable the disarming beep so that only the indicators flash. You can have the indicators flash & then stay on for twenty seconds to illuminate around the vehicle at night (Perimeter Night Light).	Sit in the car. Close all doors. Bonnet closed. Turn the ignition on. Press the left button on the remote twice. Turn the ignition to off. Sit in the car. Driver's door open. Bonnet open. Turn the ignition on. Press the left button on the remote 6 times. Turn the ignition to off.
You disarm the alarm but do not open a door within sixty seconds.	Nothing happens.	You can enable the Auto-rearm feature. The alarm at the sixty second mark will beep once - it has now automatically rearmed. Doors will lock where central locking is connected.	Sit in the car. Close all doors. Bonnet closed. Turn the ignition on. Press the left button on the remote six times. Turn the ignition to off.
Sit in the vehicle and turn the ignition on.	Nothing happens.	You can enable the door lock on ignition feature so that where central locking is connected, the doors will automatically lock when the ignition is turned on & unlock when the ignition is turned off.	Sit in the car. Driver's door open. Bonnet open. Turn the ignition on. Press the left button on the remote twice. Turn the ignition to off.

ACTION	RESPONSE	OPTIONS AVAILABLE	HOW TO MAKE THE CHANGE (Alarm must be disarmed before changing programming)
You drive the car and then stop & get out of the vehicle. You do not press the remote control within 60 seconds.	Nothing happens.	You can enable the Passive Arm Feature. The alarm will passively arm at the sixty second mark. The siren will beep once. Doors will not lock where central locking is connected. (You can not lock your keys in the car). You can enable the Auto Immobilise feature. Enables the alarm system to act as an engine immobiliser only. The immobiliser activates 38 seconds after the ignition is turned off. The dash mounted LED will stay on constantly to confirm the system's special status. The vehicle can not be started unless the remote is pressed. If the remote is pressed again, the alarm will arm & lock the doors as per normal operation. Particularly useful feature for tradespeople.	Sit in the car. Close all doors. Bonnet closed. Turn the ignition on. Press the left button on the remote 5 times. Turn the ignition to off. Sit in the car. Driver's door open. Bonnet closed. Turn the ignition on. Press the left button on the remote 8 times. Turn the ignition to off.
You press & hold the left button on the remote for three seconds.	Where an electric boot release is connected, the boot will pop open & the system will disarm. Please note that the auto-rearm feature will still function if a door is not opened within 60 seconds, unless the installer has wired the boot to the door circuit.	You can change the time required for pressing the left button from 3 seconds to simply pressing once. (Instant boot release).	Sit in the car. Driver's door open. Bonnet open. Turn the ignition on. Press the left button on the remote seven times. Turn the ignition to off.
Your vehicle has no pin switches in the doors i.e. no interior light circuit.	Passive arming & auto re-arm will not function as there is no input to tell the alarm that a door is being open or closed.	You can enable Passive Arming From Ignition Off Only i.e. the alarm will automatically arm 60 seconds after the ignition is turned off.	Sit in the vehicle. Driver's door open. Bonnet open. Turn the ignition on. Press the left button on the remote 5 times. Turn the ignition off.

ACTION	RESPONSE	OPTIONS AVAILABLE	HOW TO MAKE THE CHANGE (Alarm must be disarmed before changing programming)
While the system is armed, you hit the vehicle at a relatively low level i.e. kick the wheel.	The siren should give four warning beeps.	You can adjust the sensitivity level to make the pre-warning & impact sensor more or less sensitive.	Sit in the car. Close all doors. Bonnet closed. Turn the ignition on. Press the left button on the remote 9 times. After pressing the remote 9 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 ie 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.
		You can disable the pre-warning system (four beeps), and if you prefer a different pre-warning device can be wired to the boot release output wire. This means that if you disable the pre-warning system you will also disable the boot release feature. The boot release wire becomes a two second negative output.	Sit in the vehicle. Driver's door open. Bonnet open. Turn the ignition on. Press the left button on the remote 8 times. Turn the ignition off.
You have optional Ultrasonics or a Microwave Internal Movement Sensor fitted and arm the alarm with a pet inside the vehicle.	The system may false trigger as the pet moves around.	You can disable your auxiliary sensors.	Sit in the car. Close all doors. Bonnet closed. Turn the ignition on. Press the left button on the remote 3 times. Turn the ignition to off.
		You can disable the shock sensor.	Sit in the car. Close all doors. Bonnet closed. Turn the ignition on. Press the left button on the remote 4 times. Turn the ignition to off.

ACTION	RESPONSE	OPTIONS AVAILABLE	HOW TO MAKE THE CHANGE (Alarm must be disarmed before changing programming)
You wish to function test the alarm system fully without having to arm the alarm each time & the wait twenty seconds before triggering each individual input i.e. bonnet, doors, shock sensor etc.	Select Installer Mode.	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.	Sit in the vehicle. Driver's door open. Bonnet closed. Turn the ignition on. Press the left button on the remote 9 times.Turn the ignition to off. Now test each input trigger. Turn the ignition to on to exit this mode.
Your alarm has been triggered.	The siren sounds for 30 seconds & then automatically rearms. When you disarm the alarm four beeps will be given instead of two.	You can access the Past Alarm Trigger Memory to find out what caused the alarm to trigger.	Your Rhino Alarm offers a unique memory that stores the ten last reasons why the alarm was triggered. This memory cannot be erased. Sit in the car. Driver's door open. Bonnet open. Turn the ignition on. Press the left button on the remote 9 times. Turn the ignition to off. If two previous alarms were recorded ie 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. sensor. **The last memory heard is the most recent alarm sector triggered.** Turn the ignition to on to exit this mode. 1 Beep, 1 Flash - Voltage Drop Alarm 2 Beep, 2 Flashes - Not Used 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