

INSTRUCTION MANUAL FOR

Rhino GL

Modular Remote Control Car Alarm
with Engine Immobilisation



A.C.N 001 621 610



Build Date:

TO ARM/DISARM ALARM

The alarm is activated by pressing the button on the remote control transmitter once. 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 button again. The blinkers will flash twice and the siren will beep twice. THE ALARM IS NOW OFF.

If the siren is sounding, and you wish to disarm, the first press will cancel the siren - the system will then return to an armed state. A second press is required to fully turn the alarm off. The blinkers will flash twice and the siren will beep twice. THE ALARM IS NOW OFF.

Note: If power is removed from the alarm system, i.e. when replacing your car battery, the alarm will automatically enter armed mode when power is restored.



ALARM TRIGGER

When triggered, the siren will sound for 30 seconds and then will automatically rearm. If the alarm has been triggered in your absence, the dash LED will be flashing twice as fast as normal when you return to your vehicle.

EMERGENCY PANIC BUTTON

The panic feature is activated by pressing & holding the button on the remote control transmitter for 3 seconds. The system will arm or disarm first depending on what state it was in. The siren will then sound & the blinkers will flash for 30 seconds. To cancel "panic", follow disarm procedure as described above.

NOTE: Panic does not work when the ignition is on by requirement of Australian Law (EPA-Environmental Protection Authority).

PROGRAMMABLE FEATURES:

AUTOMATIC RE-ARM : 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, or the ignition is not turned on within 30 seconds 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.

SILENT OPERATION : This feature when turned on, stops the siren from beeping for arm & disarm confirmation, and from sounding on alarm trigger i.e. only the blinkers will flash.

LEARNING REMOTES (Up to 6 remotes can be used with this alarm system)

Before entering this mode, make sure you have all remotes present that you wish to utilise with this alarm system, as the alarm automatically erases all remotes when you enter this mode.

- A. While the system is disarmed, open and close your drivers door & sit in the vehicle.
- B. Now, turn the car ignition key from the off position to the ignition on position 5 times within 15 seconds.
- C. 5 seconds later, the siren will sound briefly to confirm that you have entered the remote learning mode. Repeat steps A & B if you do not hear the confirmation.
- D. Now press the button on the first remote you wish to learn in. The siren will sound briefly to confirm this code has been learnt. Now press your second remote. The siren will sound briefly again to confirm this code has also been learnt. Repeat this step for up to six remotes.
- E. The system exits learning mode once it has received 6 remote codes - press one of your learnt remotes repeatedly to fill up all coding locations if you do not have 6 remotes. The system will exit to disarmed mode.

ALARM MODEL: RHINO GL

STANDARD SYSTEM FEATURES

- ❖ All Microprocessor Controlled
- ❖ Two Remote Controls with Multi Function Operation
- ❖ Red Flashing LED Light
- ❖ 12VDC High Power Siren
- ❖ Automatic Siren Reset Period (30 Seconds)
- ❖ Visual Arming and Disarming via Blinkers
- ❖ Negative Pulse Central Locking Outputs
- ❖ Negative Trigger Input (Can be used for doors, boot, bonnet & optional sensors)
- ❖ Alarm Trigger Memory
- ❖ Safety Circuit Prevents Arming While Ignition On
- ❖ Learning Mode for Additional Remote Controls (Max 6)
- ❖ Security Override Procedure

SELECTABLE SYSTEM FEATURES (Can be turned on or off)

Automatic Re-arm

Silent Arming / Disarming

Current Sensing (Voltage Drop) Circuit

Central Locking Output Time Selectable - 0.8 or 5 Seconds

OPTIONAL ACCESSORIES:

Additional Remote Controls (Part No. GLTX)

Backup Battery Siren (Part No. SB42)

Car Body Impact Sensor (Part No. SHMI)

Ultrasonic Sensors (Part No. UD6)

Microwave Sensor (Part No. UD5)



PROGRAMMABLE FEATURES

for Rhino GL Car Alarm

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 enable silent arming.

1. Arm then disarm the alarm system.
2. Within 20 seconds of disarming, turn the ignition key to on.
3. Immediately after turning the ignition on, press the remote control button an equal number of times to the selected feature's **code** no. (eg 14 times for silent arming). Leave a 2 sec. gap between each press.
4. Now turn the ignition to off.
5. The system will now confirm whether the feature has been turned on or off via visual readout. One flash of the indicators means the feature is on. Two flashes means the feature has been turned off.

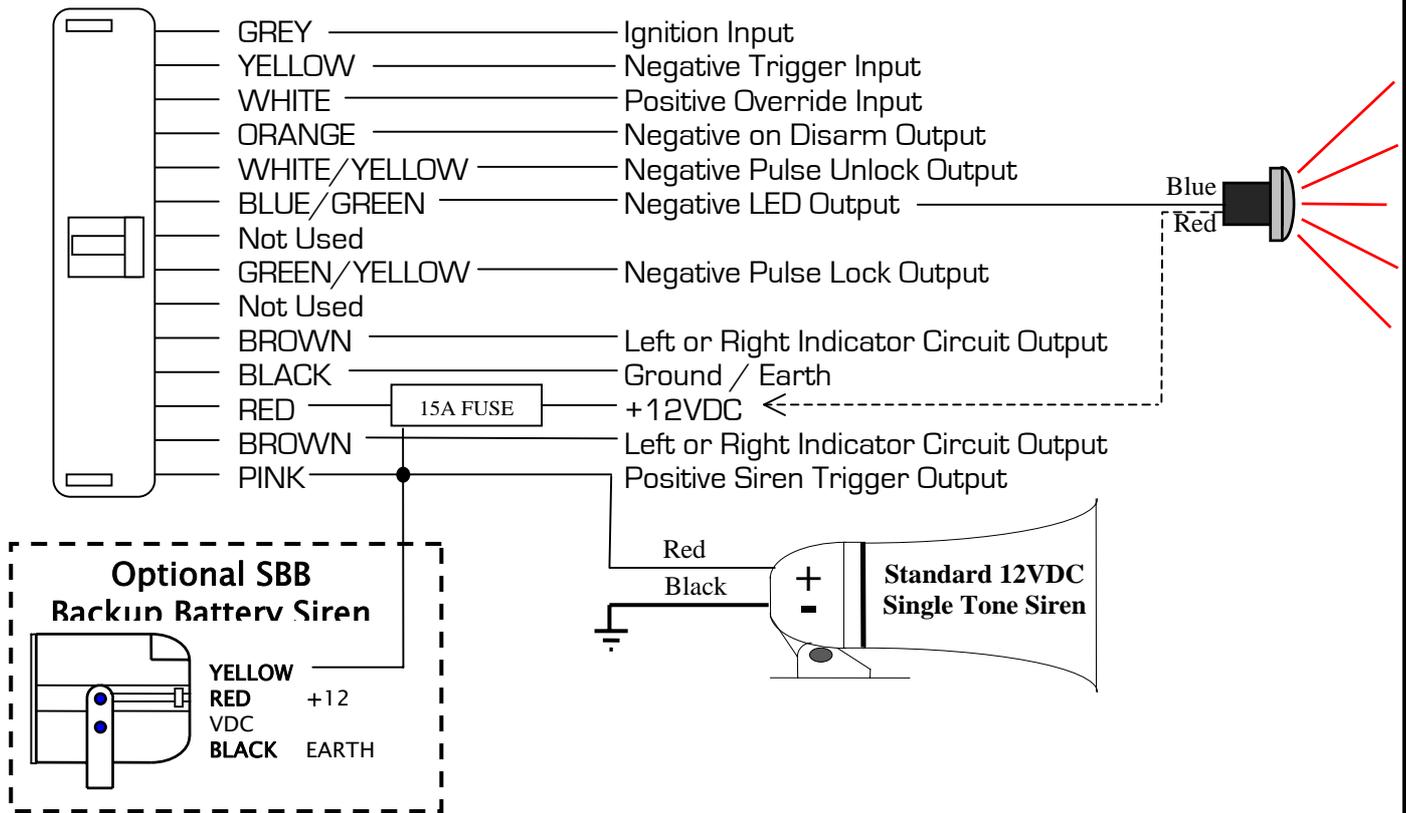
PROGRAMMABLE FEATURE	Press Remote This Many Times	INITIAL FACTORY SETTING	DESCRIPTION
Voltage Drop (Current) Sensing	8	ON	If deactivated, this feature will prevent the alarm triggering via sensing a drop in voltage in the vehicle's electrical system. This may be necessary where engine thermo fans cut in automatically or there are other accessories active even when the ignition is turned off eg fridges, car phones.
Auto Re-arm	10	ON	If system is disarmed and a door is not opened, or the ignition turned on within 30 seconds, the system will rearm & relock. (where central locking is connected)
Central Closure	12	OFF	When on, the lock & unlock outputs become a 5 second negative pulse instead of 0.8 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.
Silent Operation	14	OFF	This feature when turned on, stops the siren from beeping for arm & disarm confirmation, and the siren from sounding on alarm trigger i.e. only the blinkers will flash.

WIRING INSTRUCTIONS FOR RHINO GL ALARM

RED	- Power. 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	- Earth. Connect to a suitable earth on the car body.
BROWN (x2)	- Indicator Flash Wires.(Positive Output). Connect to the left and right indicator circuits of the vehicle.
GREY	- Ignition Input. Connect to a +12 volts ignition switched lead, which <i>does not fall to 0 volt when the engine is cranked</i>
YELLOW	<p>- Negative Trigger Input. Connect to existing door switches, bonnet switch provided, or negative trigger wire from optional car body impact sensor, ultrasonics, or microwave sensor. Please note: only negative switching doors. If positive door switching - must use relays to reverse to negative - see diagram contained later in this manual. If you are using more than one trigger device i.e. doors, bonnet, and impact sensor, then the 1 Amp Diodes supplied must be used on each wire coming from each trigger input i.e.</p> <div style="text-align: center;"> <p style="text-align: center;">1 Amp Diodes</p> <p style="text-align: center;">Impact Sensor Neg . Trigger Out</p> <p style="text-align: center;">Negative Door Switch</p> <p style="text-align: center;">Negative Bonnet Switch</p> <p style="text-align: center;">Yellow Wire from GL Alarm</p> </div>
PINK	- Positive Siren Trigger (1Amp max rating). This wire switches positive when the alarm is triggered. It also pulses positive to make the siren beep. Connect to the red wire from the standard 12VDC siren supplied, or to the yellow positive trigger input wire on the optional SBB Multi-Tone Backup Battery Siren.
BLUE/GREEN	- Negative LED Output. Connect to the blue wire from the LED supplied. (Connect Red wire from LED to +12VDC).
ORANGE	<p>- Negative on Disarm. This wire enables an effective engine immobilisation circuit to be configured with this alarm. Use 40amp Changeover Relay provided as shown:</p> <div style="text-align: center;"> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>The starter wire is usually located under the steering column of the vehicle. This wire must be +12 Volts only when the vehicle is being started. Cut this wire. The vehicle should not start. Solder the starter motor side to number 30 on the relay. Solder the other end to number 87 on the relay. Disable only starter motor or fuel pump.</p> <p style="text-align: center;">Under no circumstances should you cut the vehicle's main ignition system.</p> </div>
WHITE	<p>- Positive Override Input. This wire needs to be connected to constant +12VDC via the override toggle switch provided, to allow access to the security override mode:</p> <p>If a customer loses a remote control, or it fails to disarm the alarm system, the following procedure will disarm the alarm system.</p> <ol style="list-style-type: none"> 1. Open & close the drivers door. (The siren will sound). 2. Sit inside the vehicle and turn on hidden toggle switch. 3. Within 30 seconds, turn the ignition from off to on 5 times. 4. The system will disarm (The siren will stop sounding). 5. Contact your Rhino Dealer for further assistance. <div style="text-align: center; margin-top: 10px;"> </div>
GREEN/YELLOW	- Negative Pulse Lock Signal. Refer to diagrams contained later in this manual for connection options.
WHITE/YELLOW	- Negative Pulse Unlock Signal. Refer to diagrams contained later in this manual for connection options.

RHINO GL ALARM WIRING DIAGRAM

REFER TO WIRING INSTRUCTIONS ON PAGE 4 FOR FULL EXPLANATION



LOCATION GUIDE FOR SYSTEM COMPONENTS

THE SIREN: Mount the siren to the vehicle's firewall, close to the bonnet. **DO NOT** mount near the exhaust manifold or low down in the engine bay where it may be exposed to excessive moisture / road grime etc.

THE CONTROL (MAIN) UNIT: Mount under the dash between the steering column & the centre of the vehicle. Cable tie the unit to a large cable (20mm diameter or larger) or to a heavy strut.

SECURITY OVERRIDE MODE:

If a customer loses a remote control, or it fails to disarm the alarm system, the following procedure will disarm the alarm system.

1. Open & close the drivers door. (The siren will sound).
2. Sit inside the vehicle and turn on hidden toggle switch.
3. Within 30 seconds, turn the ignition from off to on 5 times.
4. The system will disarm (The siren will stop sounding).
5. Contact your Rhino Dealer for further assistance.

INSTALLERS PLEASE NOTE: If power is removed from the alarm system, it will automatically arm when power is reconnected.

