



Our?INSTRUCTION MANUAL FOR:

RES4601V2

AUSTRALIAN STANDARDS APPROVED
REMOTE CONTROL ENGINE IMMOBILISER

- This product complies with AS/NZS 4601:1999.
- This product is to be installed in accordance with the methods & principles detailed in AS 3749.2
- The RES is suitable for all petrol and diesel engine vehicles with 12V negative earth batteries.



Proudly Designed & Engineered in Australia



Date of Manufacture:

(Software Version: RES08SB F:\Current_Instructions\Standard Car Alarms\RES4601V2_Y2.doc)

1

Press to Arm/Disarm your Immobiliser, or press & hold for 3 seconds to activate the panic feature.



*Press & Hold for 3 seconds to open boot, or press once to cancel headlight timer circuit.

2

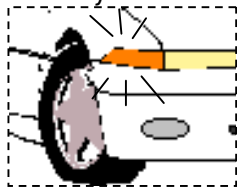
* Only available on vehicles already fitted with an electric (push button) boot release & if the optional headlight timer circuit has been fitted.

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

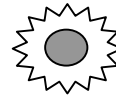
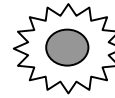
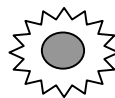
The immobiliser is activated by pressing the **LEFT (Button 1)** button on the remote control transmitter. The blinkers will flash once and (if fitted) the siren will beep once. If central locking is connected, your doors will lock. The dash LED-light will stay on for 20 seconds then flash, **THE IMMOBILISER IS NOW ON.**



Press Button 1



Blinkers will flash Once



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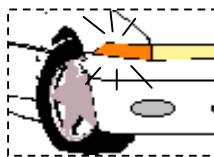
LED COMES ON.....and after 20 seconds starts to flash.

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

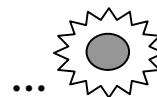
To deactivate the immobiliser, press the **LEFT (Button 1)** button. The blinkers will flash twice and (if fitted) the siren will beep twice. The LED will stop flashing. If central locking is connected, your doors will unlock. **THE IMMOBILISER IS NOW OFF.**



Press Button 1



Blinkers will flash Twice



...

LED Switches OFF

AUTO IMMOBILISE (PASSIVE ARMING) FEATURE

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 can not 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 FEATURE (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 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.

EMERGENCY PANIC / CAR FINDER FUNCTION

The panic / car finder feature is activated by pressing & holding the LEFT (Button 1) button on the remote control transmitter for 3 seconds. This causes the indicators to flash (ie same as hazard lights). If an optional siren is fitted, it will also sound. To cancel "panic", press button 1 on the transmitter for 1 second. **NOTE:** Panic does not work when the ignition is on by requirement of Australian Law (EPA-Environmental Protection Agency).

DOOR AJAR WARNING FEATURE (Programmable)

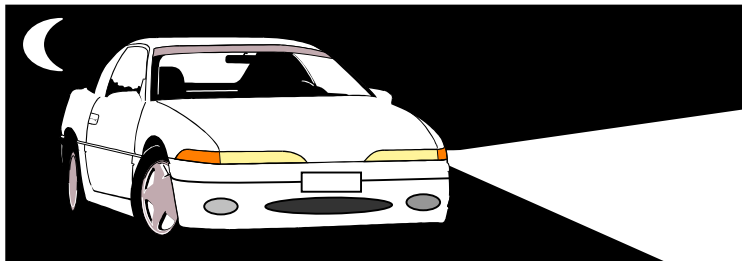
If the vehicles doors are not properly closed when you try to activate your immobiliser system, the blinkers will flash for 3 seconds to alert you that the vehicle is not secure.

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 **RIGHT (Button 2)** button for **3 seconds**. The boot will unlock. The immobiliser will not disarm. The negative (i.e boot) and door trigger alarm inputs will be temporarily disabled until both the boot & doors are closed again. **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 green button.

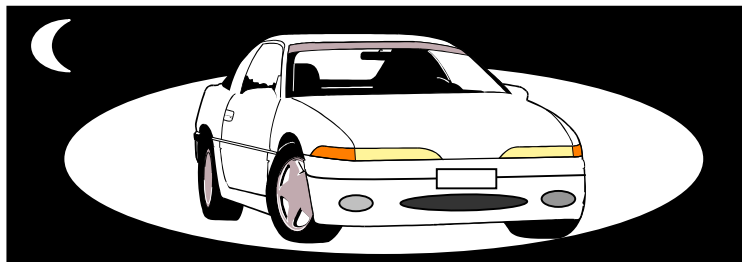
TIMED HEADLIGHT DELAY FEATURE (Optional connection by installer at extra cost)

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 carpark. You can turn the lights off before the 15 second period ends by pressing the green button on your remote.



PERIMETER NIGHT LIGHT FEATURE (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 FEATURE (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 15 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 15 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.

DOOR LOCK ON IGNITION FEATURE (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.

OVERRIDE 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 & leave it open. 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.
6. If you turn the ignition off, you will have to repeat this procedure every time you wish to start the car.

LEARNING NEW TRANSMITTERS

To add a new transmitter to your immobiliser, simply follow the procedure below:

- A. Turn the vehicle's ignition on.
- B. Immediately press and hold the LEFT (Button 1) button on the original remote control until the indicators start to flash (approximately 4 seconds) and then release the button.
- C. Immediately press and hold the LEFT (Button 1) 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 immobiliser.

Rhino RES4601 Immobiliser

STANDARD SYSTEM FEATURES

- All Microprocessor Controlled
- Code Hopping Technology (Anti-Scanning, Anti-Code Grabbing)
- Two SSR™ Solid State Remote Controls with Two Function Operation
- Long Life Lithium Cell Remote Control Batteries
- Auto Immobilise (Passive Arming)
- Automatic Re-arm in case of Accidental Disarm
- Ultra-Bright Red Flashing LED Light
- Personal Panic Button via Remote Control
- Visual Arming and Disarming via Blinkers
- Safety Circuit Prevents Arming While Ignition On
- Learning Mode for Optional Transmitters (Remote Controls)
- Negative Pulse Central Locking Outputs
- Two Point Engine Immobilisation



SELECTABLE SYSTEM FEATURES (Can be turned on or off)

- Arm / Disarm Beeps (if optional siren fitted)
- Door Ajar Warning
- Electric Boot Release Output via Remote Control – No Delay
- Timed Headlight Delay
- Multiple Vehicle Remote Control
- Valet Mode
- Central Closure
- Door Lock on Ignition (Anti Hi-jack)
- Perimeter Night Light
- Alarm Memory
- Programmable Override Code (over 63000 possible codes)

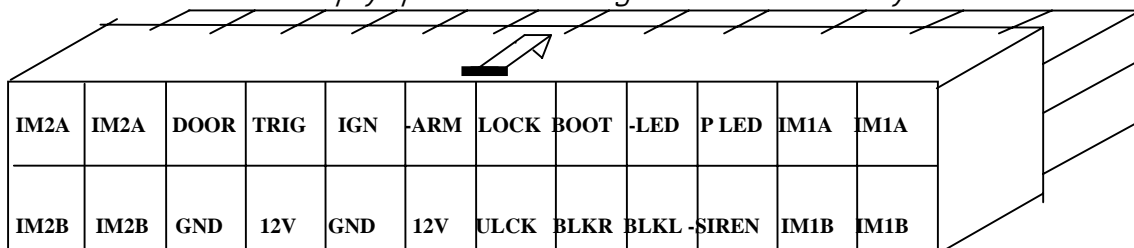
RES4601 WIRING INSTRUCTIONS

Harness Label	CONNECTION
	Use this detailed information in conjunction with the wiring diagram on page 9.
12V (2 Wires)	Connect to constant +12 volts via the fuse box at the point where the interior light circuit is powered. Current consumption when the system is in the untriggered quiescent condition is 25mA. This wire also referenced as +12VDC in this manual.
GND (2 Wires)	Connect to a suitable earth on the car body.
BLKL & BLKR	Connect to the left and right indicator (blinker) circuits of the vehicle to flash the indicators. Each circuit can supply a maximum of 4A.
IGN	Connect to a +12 volts ignition switched lead , which <i>does not fall to 0 volt when the engine is cranked</i> .
DOOR	Connect to existing door switch circuit. (Please note: only negative switching doors, if positive door switching - must use relays to reverse to negative - see diagram contained later in this manual)
IM1A (2 Wires) & IM1B (2 Wires)	Immobilisation Circuits. 8Amp Max Rating (Starter Motor & Fuel Pump). 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 both wires marked IM1B. Solder the other end to both wires marked IM1A. Repeat this configuration for the electric fuel pump with wires IM2A & IM2B. Refer to main wiring diagram. NOTE: For safety purposes, under no circumstances should you cut the vehicle's main ignition system. To confirm that you haven't cut the ignition wire: while the system is armed, make sure that your dash warning lights still come on (illuminate) when you turn the ignition to the ON position.
IM2A (2 Wires) & IM2B (2 Wires)	
-ARM	
-ARM	"Negative on Arm Output" . This is a switched negative output on Arming (-ve 150MA). Connect to the trigger wire on optional Rhino GLU400 electric window lift module. Can also be programmed to become a "Negative on Alarm Output" instead - refer to page 7. In this case the wire switches negative when the system is armed by remote and either a door is opened, the HOOD circuit is triggered, or the ignition is turned on. Can be connected to an optional Rhino Paging System, Rhino S42 Siren or Rhino SBB Backup Battery Siren. It will reset after sounding the siren for 30 seconds. Note: This wire will not give siren beeps for arm/disarm confirmation. Can also be programmed to become a "Timed Negative on Arm Output" When on, this feature chages the -ARM wire from being a constant negative on arm to a timed 15 second negative on arm wire . This will allow you to connect this wire via a relay (see diagram on page 4) 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 right (button 2) 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.
TRIG	This is a "Negative Trigger Input" , and can be connected to a bonnet switch or to the output circuit wire on any optional alarm accessory to be used.i.e. ultrasonic or microwave sensors.
BOOT	This is the negative output for boot release (150ma maximum). Optional for use where electric boot release is to be connected. 40A Changeover Relay required. See diagram on page 4.
-SIREN	"Negative Siren Output" - optional use: Connect to the black wire of an optional Rhino S42 Siren or Rhino DPS Cabin Siren or to the green wire of a Rhino SBB Backup Battery Siren. This wire gives a momentary negative output (150mA max), for giving audible arm/disarm confirmation (1 beep for arm, 2 beeps for Disarm). In the case of the system being armed via remote, this wire also switches negative when either a door is opened, the HOOD circuit is triggered, or the ignition is turned on. It will reset after sounding the siren for 30 seconds.
LOCK	Negative pulse lock signal for central locking connection. Refer to diagrams contained later in this manual.
ULCK	Negative pulse unlock signal for central locking connection. Refer to diagrams contained later in this manual.
-LED & P LED	LED Wires. LED is already attached.

LOCATION GUIDE FOR THE MAIN CONTROL UNIT:

Mount under the dash, in an inconspicuous location. Securely fix the main unit with cable ties or similar to prevent the unit from moving around.

In case you loose track of a wire, expose the main harness connector by removing the 2 self tapping screws that hold the case closed & pry open. Use the diagram below to trace your wire & its function.



SUPPLY VOLTAGE: 12VDC CURRENT CONSUMPTION (Untriggered): 29mA ARMED, 25mA DISARMED.

RES4601 OPTIONAL WIRING DIAGRAMS

INSTALLING YOUR RES4601V2 TO MEET SOME INSURANCE COMPANY REQUIREMENTS:

"Rhino RES2001"

Explanation: Some Insurance Companies in Australia will now specify that they require a Rhino Model "RES2001" Immobiliser to be professionally fitted to their client's vehicles before they will insure the vehicle for theft. The code RES2001 has been especially given to insurance companies to make sure that their specified installation of an RES4601 is carried out to their client's vehicles. If a customer says they need to have an RES2001 fitted this means that you must:

1. Be qualified to install an automotive security product, and if required hold the necessary security license (compulsory in NSW).
2. Install the Rhino RES4601 with 3 separate immobilisation points (starter, fuel, & ignition). Please follow installation diagram below.
3. Give your customer an invoice stating that a Rhino RES2001 has been installed.
4. Please note we have also removed the previous "Valet Mode" function from the RES4601 software. In its place we have Blinker Flash on Alarm. When this feature is ON, the blinkers will flash whenever the RES4601 is triggered. The factory default setting for this feature is ON.

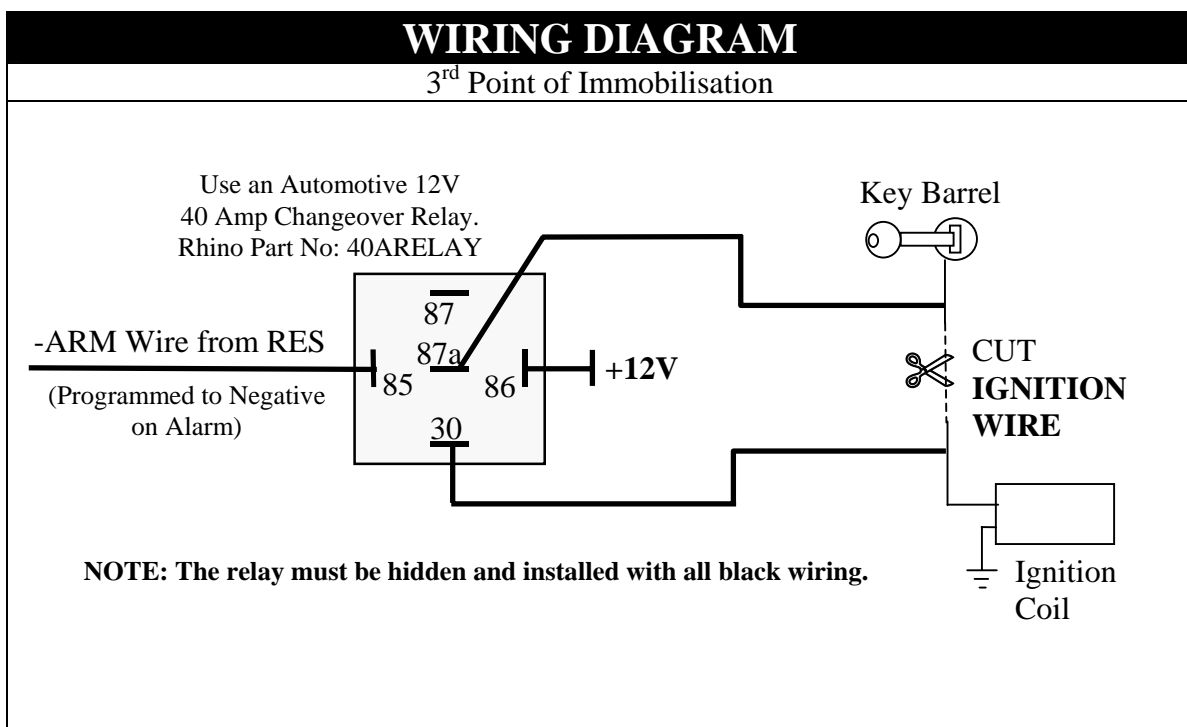
FOLLOW THESE INSTRUCTIONS TO INSTALL THE THIRD POINT OF IMMOBILISATION:

It is recommended that the two standard points of immobilisation (done via the onboard relays) are made to:

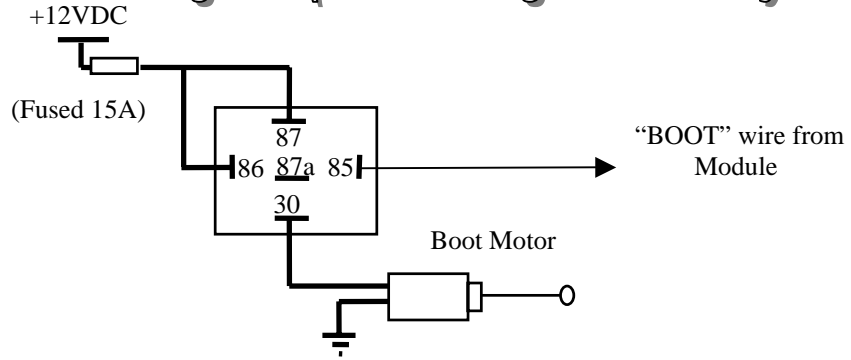
1. The Starter Motor circuit and
2. The Electric Fuel Pump circuit.

The third point of immobilisation should be made to the ignition wire (see below) or any other wire that independantly stops a vehicle from being started.

NOTE: FEATURE 7 IN REGISTER 1 OF YOUR RES4601 IMMOBILISER MUST BE TURNED ON - Negative on Alarm. This means that when the immobiliser is armed, (either by the remote or passively), that when the ignition is switched on, (or a door is opened) the relay below will open & break the ignition circuit.

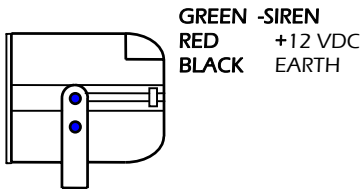


Boot Release Connection Diagram (40A Changeover Relay Required)

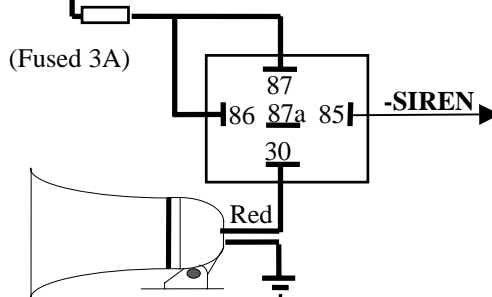


Optional Siren Connection Diagrams

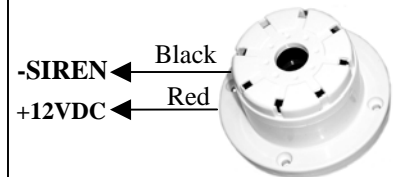
Rhino SBB Backup Battery Siren



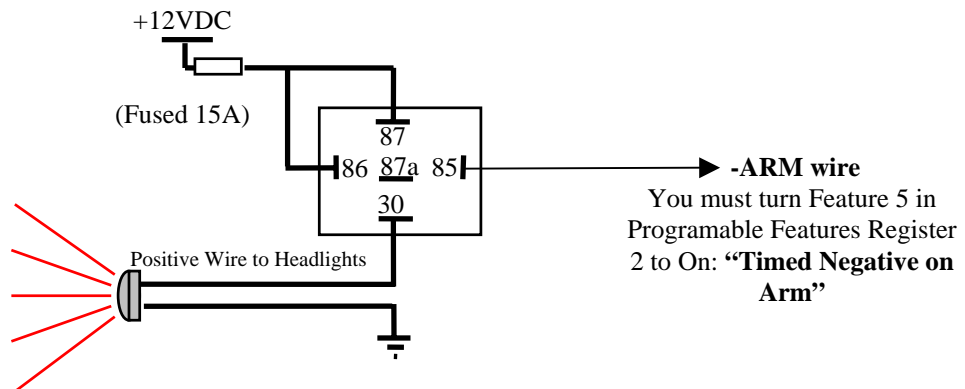
Rhino S42 12VDC Single Tone Siren (Relay Required)



Rhino DPS High Frequency Cabin Piezo Siren



Timed Headlight Diagram (40A Changeover Relay Required)

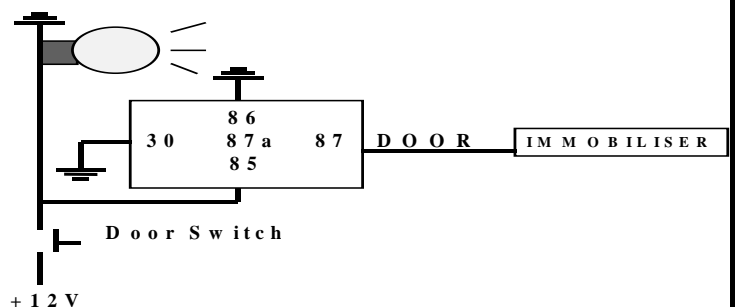
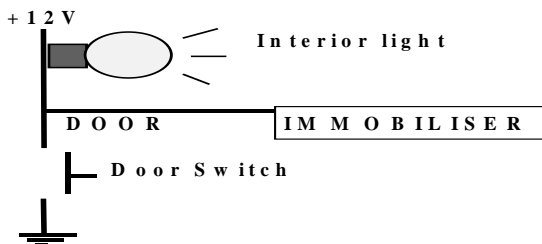


IMPORTANT NOTE FOR INSTALLERS: Vehicles fitted with negative or positive switching doors.

In order for the Immobiliser 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:

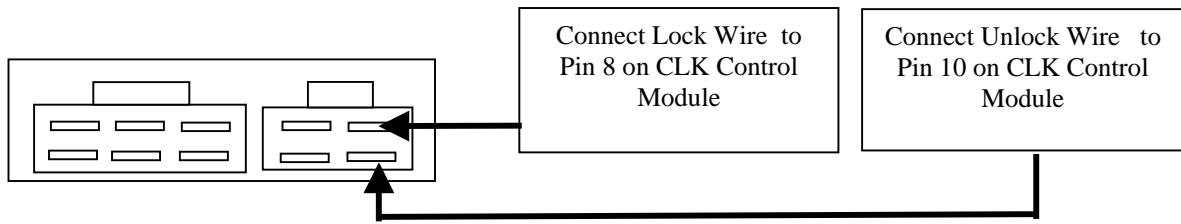
POSITIVE SWITCHING DOORS: Use relay.



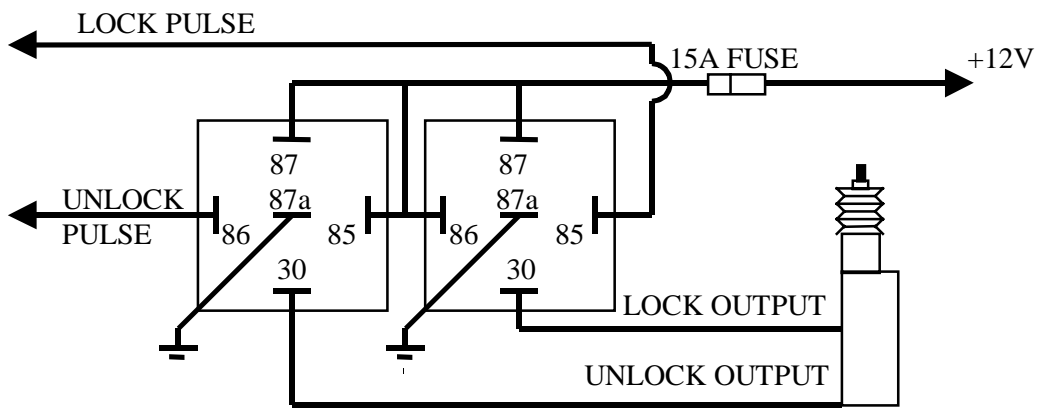
CENTRAL LOCKING CONNECTION DIAGRAMS FOR RHINO RES460I IMMOBILISER

All relays depicted are changeover type.

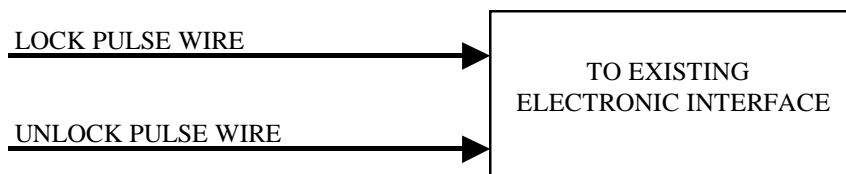
CONNECTING TO RHINO CENTRAL LOCKING KIT (CLK)



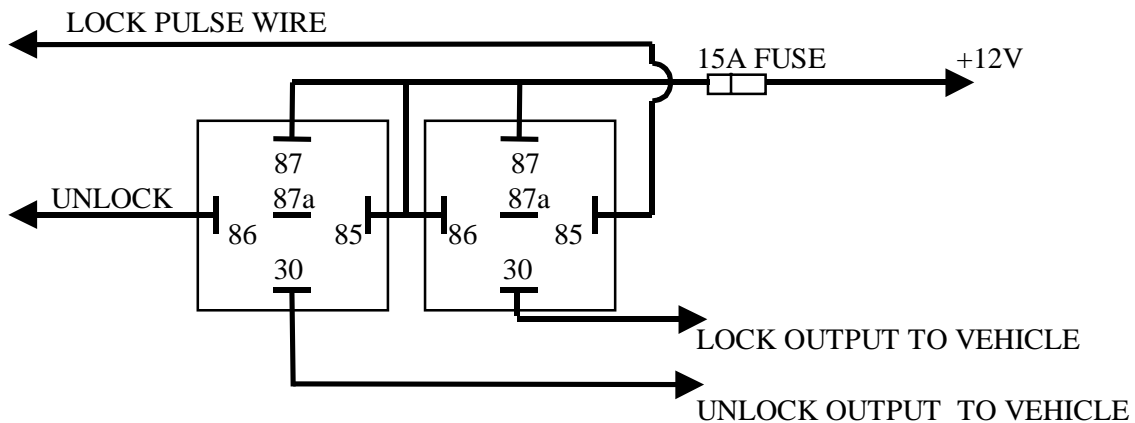
INSTALLING A NEW MOTOR – often required in vehicles that have factory locking but have no motor in the driver’s door, or you would like “keyless entry” on driver’s door.



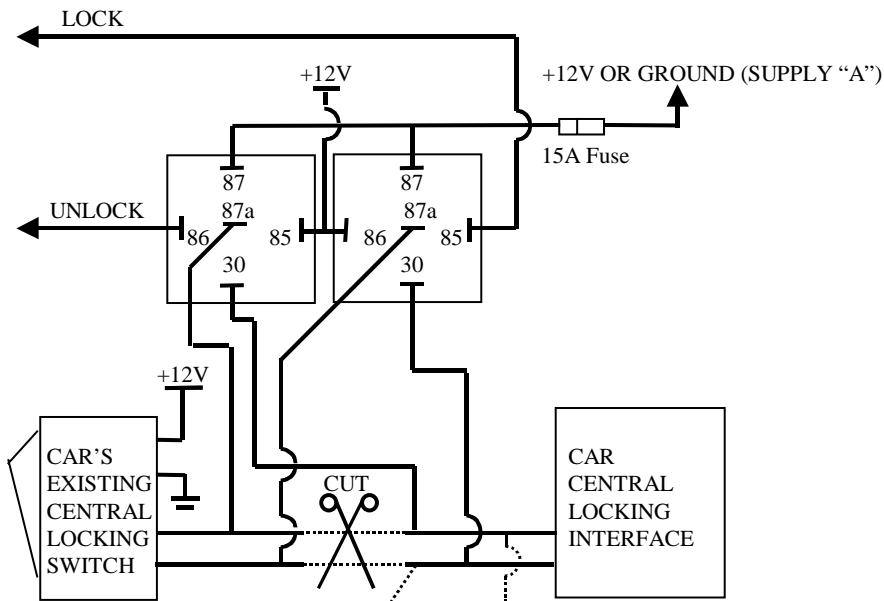
“NEGATIVE TRIGGER” ORIGINAL CENTRAL LOCKING SYSTEM (LOW CURRENT)



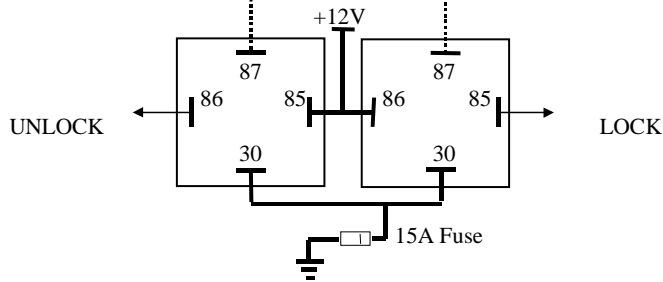
FOR INTEFACING TO “POSITIVE PULSE” CENTRAL LOCKING SYSTEMS



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

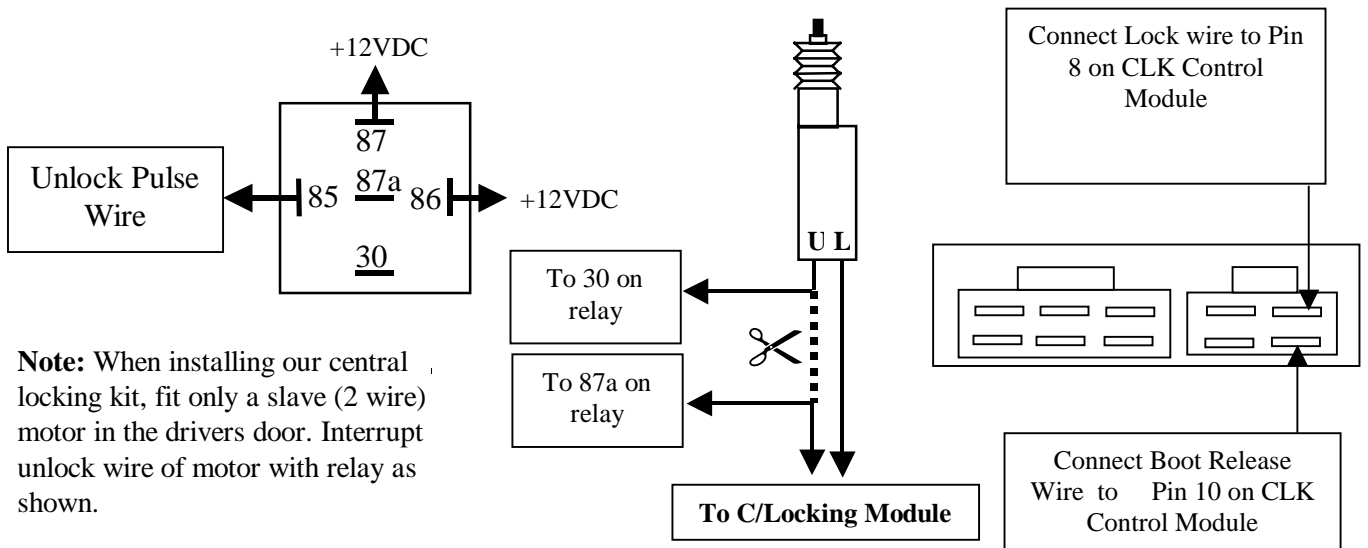


FOR FLOATING SWITCHES - NEITHER +12V OR GROUND AT REST
 Hook up the following extra relays & connect Supply "A" to +12V. Both pairs of lock / unlock wires must be connected.



2 STAGE UNLOCKING - DRIVERS DOOR ONLY WITH RHINO CENTRAL LOCKING KIT (CLK):

Pressing left button unlocks driver's door only. Pressing right button unlocks all doors.
 Pressing left button again locks all doors. (Like VT Commodore operation).



Note: When installing our central locking kit, fit only a slave (2 wire) motor in the drivers door. Interrupt unlock wire of motor with relay as shown.

RHINO RES4601 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.

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. (eg door lock on ign 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 1) remote control 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 Beep	1	ON	1 Beep on Arm (If optional siren fitted – contact your Rhino Dealer for more information).
Disarm Beep	2	ON	2 Beeps on Disarm (If siren fitted).
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 (right) will only require to be pressed once rather than held down for 3 seconds to open an electric boot.
Negative on Alarm	7	OFF	When this feature is on, the –ARM wire changes to become "Negative on Alarm" instead.
Dome Light Extension (Interior lights on when ignition off, interior lights on when system disarmed via remote). Note: This feature can not 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 15 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 15 seconds, or until the system is armed via remote, or until the ignition is turned on again.
PAT™ Past Alarm Trigger Memory	10	SELECT to replay memory.	For use when optional siren is fitted. After pressing the remote 10 times to enter this mode, turn the ignition off. Your Rhino Immobiliser / Alarm offers a unique memory that stores the ten last reasons why the alarm was triggered. This memory cannot be erased. 4 Beep, 4 Flashes - Power Fail Alarm 5 Beep, 5 Flashes - Ignition Alarm 7 Beep, 7 Flashes - Door Alarms 8 Beep, 8 Flashes - Hood Alarm If two previous alarms were recorded ie 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 beep 5 times for ignition alarm. The last memory heard is the most recent alarm sector triggered. Turn the ignition to on to exit this mode.

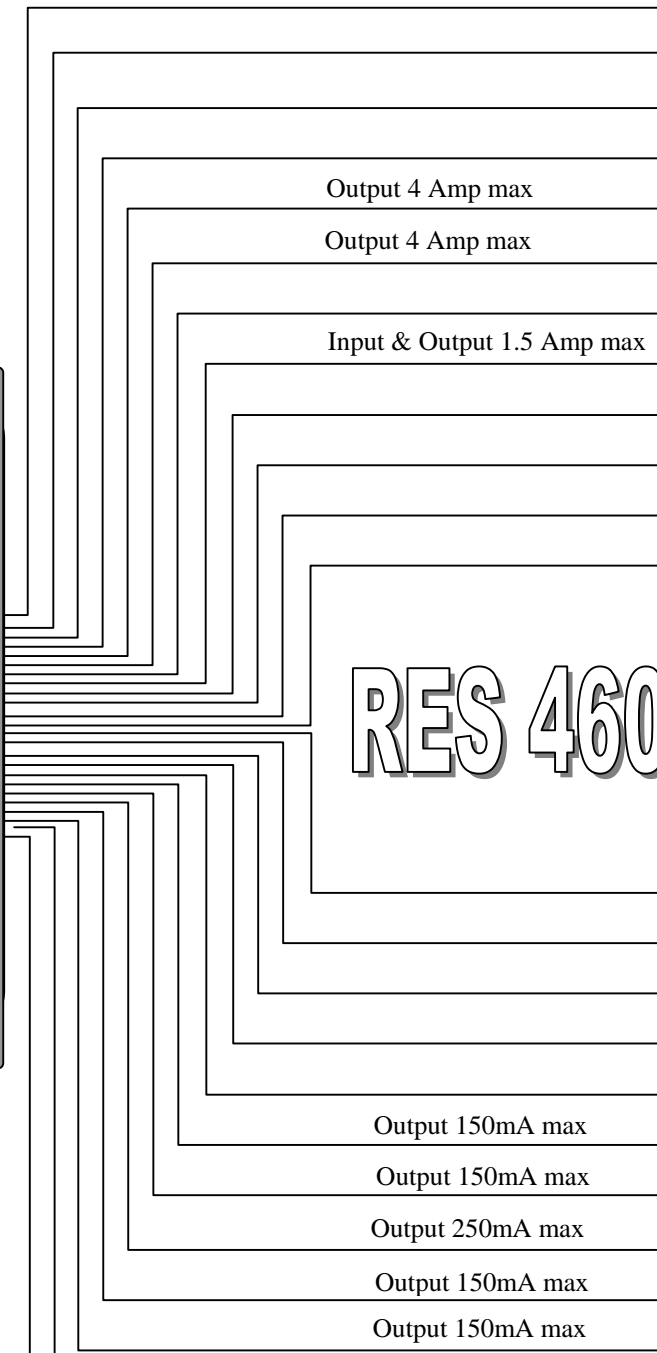
How to Change REGISTER 2:

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

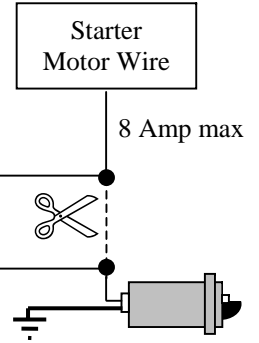
FEATURE	Press Remote This Many Times	FACTORY SETTING	DESCRIPTION
RIGHT Button Used For Another Vehicle	1	OFF	When activated, this feature allows your remote keys to control two separate vehicles – the right button controls one vehicle, the left button controls this vehicle. Simply “teach” the remotes from this system into the other vehicle as detailed in section “learning new transmitters” and then see next feature below.
RIGHT Button Used To Arm/Disarm This Vehicle	2	OFF	If this is the “other” vehicle as described above, turn this feature on to allow the right button to control this vehicle.
Third Button Used To Arm/Disarm This Vehicle	3	OFF	Contact your Rhino Dealer if this feature is required. Optional 3 Button remote available.
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. Installers must wire up the door circuit to function.
Timed Negative on Arm (Headlight Timer – 15 sec)	5	OFF	When on, this feature changes the -ARM wire from being a constant negative on arm to a timed 15 second negative on arm wire . This will allow you to connect this wire via a relay (see diagram on page 5) 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 right (button 2) 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. Note: If you have turned the “ negative on alarm ” feature on in register 1, when you turn on this feature, “negative on alarm” in register 1 will automatically be reset back to the off position.
Selectable Blinker Flash	6	OFF	When on, this feature enables the blinkers to flash 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) ie 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.
Not Used	9	OFF	Not Used
Override Code	10	{3} {4}	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: <ol style="list-style-type: none"> 1. After pressing the remote 10 times to enter this mode, turn the ignition off. The blinkers will flash once to confirm you have entered the override code entry mode. 2. Now turn the ignition from on to off anywhere from 3 to 255 times i.e. 11 times 3. Wait for the blinkers to flash once. 4. Now turn the ignition from on to off anywhere from 3 to 255 times i.e. 36 times 5. Wait for the blinkers to flash once. 6. You have changed the override code from the factory setting of {3}{4} to {11}{36}. 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.

Antenna Wire: For best operating range, keep vertical & straight. Leave in free space (do not tie up with any wiring harness, or put right next to metal).



RES 4601 Wiring Diagram

- 12V:** Connect to constant +12VDC
- 12V:** Connect to constant +12VDC
- GND:** Connect to Earth
- GND:** Connect to Earth
- BLKL:** Connect to Left Blinker
- BLKR:** Connect to Right Blinker
- IGN:** Connect to +12VDC Ignition switched lead
- DOOR:** Connect to Negative Door Circuit
- IM1A:** Immobilisation Circuit 1 – Active Side
- IM1A:** Immobilisation Circuit 1 – Active Side
- IM1B:** Immobilisation Circuit 1 – Starter Side
- IM1B:** Immobilisation Circuit 1 – Starter Side



- IM2A:** Immobilisation Circuit 2 – Active Side
- IM2A:** Immobilisation Circuit 2 – Active Side
- IM2B:** Immobilisation Circuit 2 – Pump Side
- IM2B:** Immobilisation Circuit 2 – Pump Side
- TRIG:** Negative Trigger Input
- ARM:** Negative on Arm (Programmable to Neg on Arm 15 sec or Neg on Alarm)
- BOOT:** Negative Boot Release Output
- SIREN:** Negative Siren Output with Arm/Disarm
- LOCK:** Negative Pulse Lock Signal
- ULCK:** Negative Pulse Unlock Signal

