OPERATION INSTRUCTIONS FOR

ROLLING CODE ALARM RCA-2

MADE IN AUSTRALIA

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.

BACK UP BATTERY TEST

The RCA is fitted with an automatic battery backup test feature. When you are driving the vehicle dash led will normally be off. If the backup battery is flat then the dash led will flash with the ignition on.

EMERGENCY PANIC BUTTON OPERATED VIA REMOTE

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

TO ARM/DISARM ALARM

Alarm is activated by pressing the button on remote control transmitter. The blinkers will flash once, and siren will beep once, dash LED-light will stay on for 20 seconds then flash, ALARM IS NOW ON. To deactivate alarm, press the right button again. Blinkers will flash twice and the siren will beep twice. ALARM IS OFF.

For audible arm / disarm use the RIGHT button.

For silent arm / disarm hold BOTH buttons down for approximately 4 seconds.

ALARM TRIGGER MEMORY

If the alarm was triggered by an intruder while your alarm was set, it will beep the siren four times on disarm.

BOOT RELEASE - Available on cars fitted with electric boot release motors.

The RCA-2 is fitted with remote 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 alarm will disarm without

audible beeps. NOTE: For safety reasons the remote boot release will not work when the ignition is on.

DOOR ADJAR 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 door is open.

AUTOMATIC RE-ARM FEATURE

If the alarm system is accidentally disarmed by the owner, the alarm will automatically re-arm and relock the vehicle after one minute if the doors are not opened and the ignition is not turned on.

SELECTABLE PASSIVE ARM

The RCA-2 alarm can activate itself one minute after you leave your vehicle provided that the ignition is turned off and all doors are properly closed. This feature is selected by following the procedure below:

~ To turn the passive arm mode on or off, follow the procedures below;
A) Turn the ignition on.
B) Immediately press the right button on the remote control once only.
C) Immediately turn the ignition off.
D)1. If you turned the passive arming mode on, the dash LED will flash once and the siren will beep once after the ignition is turned off.
2. If you turned the passive arming mode off, the dash LED will flash twice and the siren will beep twice after the ignition is turned off.

When the alarm system initially has power connected to it, the passive arm feature will be turned on.

Please Note: If the keyswitch is turned off after the alarm is installed in the vehicle the passive arm feature will be re-activated. If that occurs, follow the above procedures again to disable.

LEARNING NEW TRANSMITTERS

To add a new transmitter to your alarm, simply follow the procedure below:
A. Turn the vehicles ignition on.
B. Immediately press and hold the right 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 new remote control for at least 4 seconds.
D. Turn the vehicles ignition off.
E. The new remote control is now programmed into the alarm.

REMOVING OR ADDING ALARM SENSORS VIA THE REMOTE CONTROL

~ To turn the Auxiliary and Shock sensor on or off, follow the procedures below;
A. Turn the ignition on.
B. Immediately press the Left button on the remote control once only.

C. Immediately turn the ignition off.

D. 1. If you turned the Auxiliary (Ultrasonic or Microwave Detector) and Shock Body Impact Sensor on, the dash LED will flash once and beep once after the ignition is turned off.

2. If you turned the Auxiliary (Ultrasonic or Microwave Detector) and Shock Body Impact Sensor off, the dash LED will flash twice and beep twice after the ignition is turned off.

BATTERY BACKUP TEST

The RCA-2 alarm is fitted with an intelligent Backup Battery test feature and rechargeable battery. Every time you drive your vehicle the battery is automatically charged and tested and if it is discharged and will not charge, the dash LED will flash quickly when the ignition is turned on.

FEATURES:

~ All Microprocessor Controlled
~ Rolling Code Technology (Anti-Scanning, Anti-Code Grabbing)
~ Learning Mode for Optional Transmitters (Remote Controls)
~ Two Remote Controls with Two Button Operation
~ Solid State Remote Controls - No Tuning Capacitor
~ Long Life Lithium Cell Remote Control Batteries
~ Passive Arming Programmable via Remote Control
~ Quiet Arming Selectable via Remote Control
~ Shock Sensor and Ultrasonic Isolation Programmable via Remote Control
~ All Points of Entry Protection
~ Intelligent Pre-Warn Shock (Impact) Sensor
~ Intelligent Shock (Impact) Sensor
~ Ultra-Bright Red Flashing LED Light
~ Electric Boot Release Output via Remote Control
~ Personal Panic Button via Remote Control
~ Visual Arming and Disarming via Blinkers
~ Arming and Disarming Confirmation Beep
~ Door Adjar Warning (If a Door is Left Open)
~ Alarm Trigger Memory History Reporting Mode
~ Battery Backup System
~ Automatic Battery Test via Dash LED Light
~ Engine Immobilisation
~ Automatic Siren Reset Period (30 Seconds)
~ Service and Override Mechanical Keyswitch
~ Safety Circuit Prevents Arming While Ignition On
~ Selectable Current Sensing Circuit
~ Negative Pulse Central Locking Interface

WARN-OFF FEATURE AND INTELLIGENT SHOCK SENSOR

The RCA is equipped with a warn-off pre-warning shock sensor. The prewarn gives the security conscious customers a very sensitive shock sensor on their vehicle without false alarms, because the pre-warn shock sensor will only beep the siren for 2 seconds approximately. The major advantage here is that the car thief attacking the car, would be warned earlier that the car has an alarm fitted, and this will reduce the chances of damage being inflicted upon the vehicle before the main alarm goes off.

FEATURES USED BY INSTALLERS / SERVICEMEN

1. INSTALLER / SERVICE MODE

Service mode is accessed by turning the keyswitch to the off position. Installer mode is accessed by turning the keyswitch to off then back to the on position. The installer test 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.

2. SHOCK SENSOR AND PREWARN ADJUSTMENT: There are only two positions of Shock Sensor and Pre Warn adjustment and this is based on position mounting of unit. When unit is fitted in a horizontal position, the shock sensor and pre warn are more sensitive. When fitted in a vertical position, they are less sensitive.

3. ALARM TRIGGERS HISTORY MEMORY READ OUT VIA SIREN AND LED

To access alarm triggers memory turn ignition on and hood opened i.e. bonnet switch grounded. By pressing the remote control, alarm history is indicated via siren and LED.

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 caused by i.e. voltage drop and shock sensor the LED will flash and siren will beep once for voltage drop, no noise for 1 second then beep three times for shock sensor. The memory will hold ten alarm memories. The last memory heard is the most recent alarm sector triggered.

To exit memory mode turn ignition off and close bonnet.

WIRING INSTRUCTIONS

RED	-	CONNECT TO A CONSTANT +12 VOLTS TO THE BATTERY
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***
DARK BLUE	-	CONNECT TO PIN SWITCHES FOR BONNET - CONNECT TO PIN SWITCHES FOR BOOT
WHITE	-	CONNECT TO EXISTING DOOR SWITCHES, IF SWITCH SENSING IS REQUIRED (**PLEASE NOTE:** ONLY NEGATIVE SWITCHING DOORS, IF POSITIVE DOOR SWITCHING - MUST USE RELAYS TO REVERSE TO NEGATIVE)
GREEN (X2)	-	LOCATE THE POSITIVE FEED WIRE TO THE STARTER, CUT THAT WIRE AND JOIN THE TWO GREEN WIRES TO EITHER END OF THE STARTER FEED WIRE WHICH YOU HAVE JUST CUT
YELLOW / BLACK	-	THIS IS A SWITCHED NEGATIVE OUTPUT (-VE 150mA). CONNECT TO THE NEGATIVE WIRE (USUALLY BLACK) ON ANY ACCESSORY USED i.e. ULTRASONIC / GLASS BREAKAGE / MICROWAVE DETECTORS OR ETC
LIGHT BLUE	-	THIS IS A NEGATIVE TRIGGER, AND SHOULD BE CONNECTED TO THE OUTPUT CIRCUIT WIRE ON ANY ACCESSORY TO BE USED. (ie ULTRASONIC, MICROWAVE, OR GLASS BREAK DETECTORS, ETC.)
BROWN	-	THIS IS THE NEGATIVE OUTPUT (150mA MAXIMUM) FOR THE BOOT RELEASE.
VIOLET / BLACK	-	NEGATIVE TRIGGER ON ALARM TO BE USED TO INTERFACE TO PAGER OR OPTIONAL SIREN (100mA MAXIMUM)
ORANGE / BLACK	-	NEGATIVE PULSE LOCK SIGNAL
PINK / YELLOW	-	NEGATIVE PULSE UNLOCK SIGNAL
PINK	-	CURRENT SENSING OVERRIDE CONNECT TO POSITIVE POWER TO DISABLE CURRENT SENSING

CURRENT SENSING

The RCA alarm is fitted standard with current sensing. This feature with the Rhino Australian made alarms has been proven to be very reliable.
If removal of this feature is necessary, this can be achieved by connecting the pink wire coming out from the tubing to the red power wire + 12V.
WARNING: If turbo cooling fan runs after ignition key is turned off, you then must connect the pink wire to the positive power feed wire of the electric cooling fan this will override the fan from causing false alarms due to voltage drop.

RCA WIRING DIAGRAM

WARNING TO ALL ALARM INSTALLERS

The RCA alarm is equipped with Low Current Negative Pulse Central Lock outputs. This must not be used unless a complete understanding of the car's central locking system is known. Failure to do this can damage electronics and this damage WILL NOT BE COVERED UNDER WARRANTY! If unsure, please connect relays as shown on wiring instructions.

FOR "NEGATIVE TRIGGER" ORIGINAL POWER LOCK SYSTEM

FOR "POSITIVE PULSE" POWER LOCK SYSTEM

CONNECT OPTIONAL RELAYS AS SHOWN

TO INSTALL NEW DOOR LOCK MOTORS

CONNECT OPTIONAL RELAYS AS SHOWN

FOR POSITIVE AT REST THEN GOING NEGATIVE "OR" NEGATIVE AT REST THEN GOING POSITIVE PUT 87'S TO +12V

CONNECT OPTIONAL RELAY AS SHOWN