

**auto  
WATCH**

**ADVANCED VEHICLE  
SECURITY SYSTEMS**

**279 RLi  
ALARM IMMOBILISER**

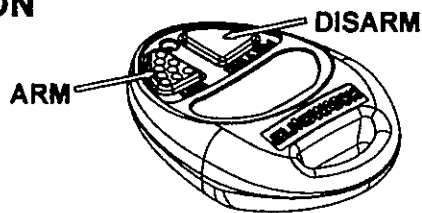
**OWNER'S MANUAL**



**A QUALITY  
PRODUCT FROM  
AUTOWATCH**

## INTRODUCTION

*Congratulations. Your vehicle is protected by an Autowatch vehicle security system designed to give years of trouble free operation, made with only the highest quality components and using state of the art technology you can be assured that your vehicle has the best electronic protection available.*



### ARMING OF THE ALARM

Press the Arm button momentarily.



1 arming tone and park lights flash once.  
The status light flashes armed sequence.  
3 flashes – pause – 3 flashes...

*A "door open" warning tone can be programmed by your Autowatch dealer.*

### DISARMING OF THE ALARM

Press the Disarm button momentarily.



2 disarming tones and the park lights flash twice. The status light extinguishes.

*The "on" and "off" tones may be de-selected by your Autowatch dealer.*

### ANTI HIJACK IMMOBILISER (OPTIONAL)

Press the hidden cancel button after switching the ignition on, or opening the hijack door/s.



The status light illuminates for 1 second to indicate that hijack has been cancelled.

*Failure to do so will result in warning tones, slowing down of the vehicle followed by immobilization and siren/hoöter at full volume with park lights flashing, press the cancel button at any stage to exit.*

## HIJACK SERVICE MODE

*(Use this feature to avoid revealing the location of the cancel button)*

With the alarm disarmed, press and hold the hijack cancel button. While depressed, press the arm or disarm button on the remote.



2 tones will be heard indicating the hijack feature is disabled.

To re-select hijack, repeat the above procedure.



1 tone will be heard indicating the hijack feature is enabled.

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## EARLY WARNING DETECTION (OPTIONAL)

If the vehicle is bumped.



The siren/hooter will sound momentarily and the park lights will flash.

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## EARLY WARNING ISOLATION

Press the Arm button a second time within one second after turning the alarm on.



A tone is heard indicating the feature is deselected for this arm cycle.

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## INTRUSION DETECTION

The Alarm will detect a significant impact to the vehicle, the ignition being switched on and doors, bonnet or trunk opening.



The siren/hooter will sound and the hazards flash for 30 seconds, unless the remote is pressed.

*Each zone will trigger the alarm a maximum of 3 times per "on" cycle.*

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**IMPACT SENSOR ISOLATION**

Press the Arm button a third time within 1 second after isolating early warning..



A tone is heard indicating the feature is deselected for this arm cycle.

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**REMOTE PANIC**

Press and hold the Arm or Disarm button on the remote for 3 seconds.



The siren/hooter will sound and the hazards flash, unless the remote is pressed.

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**CENTRAL LOCKING (OPTIONAL)**

Turn the alarm on.



The doors will lock.

Turn the alarm off.



The doors will unlock.

With the ignition on, press the remote.



The doors will lock/unlock.

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**SELECTIVE UNLOCKING (OPTIONAL)**

Turn the alarm off.



The driver's door will unlock.

Press the Disarm button again.



The passenger doors will unlock.

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**LOCK WITH IGNITION (OPTIONAL)**

Switch the ignition on with doors closed.



The doors will lock.

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### **UNLOCK WITH IGNITION (OPTIONAL)**

Switch the ignition off.

➡ The doors unlock.

*If selective unlock is configured, then only the driver's door will unlock.*

### **EMERGENCY OVERRIDE (PIN CODE)**

The alarm can be disarmed without the use of the remote, by entering the override PIN. The siren/hooter will sound during this procedure.

Refer to the PIN attached to the key tag and enter each digit of the PIN individually as follows:  
*(Note that a 0 is represented by 10 flashes)*

Switch the ignition on – the status light will illuminate.

Switch the ignition off – the status light will begin to flash.

After the number of flashes equivalent to the first digit of your code, switch the ignition on. – the status light will illuminate.

*This is the 1<sup>st</sup> digit entered. Switch the ignition off and counting the flashes enter the 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> digit of your PIN.*

After correct entry of all 5 digits – the alarm will disarm. The LED will turn on solid. Switch off ignition and wait 10 flashes – the status light will extinguish.

*It is important that the 5 digits are entered sequentially. If you make a mistake, wait until the flashes return to the alarm armed flashing sequence -3 flashes – pause – 3 flashes... Then begin again starting from the 1<sup>st</sup> digit of your PIN.*

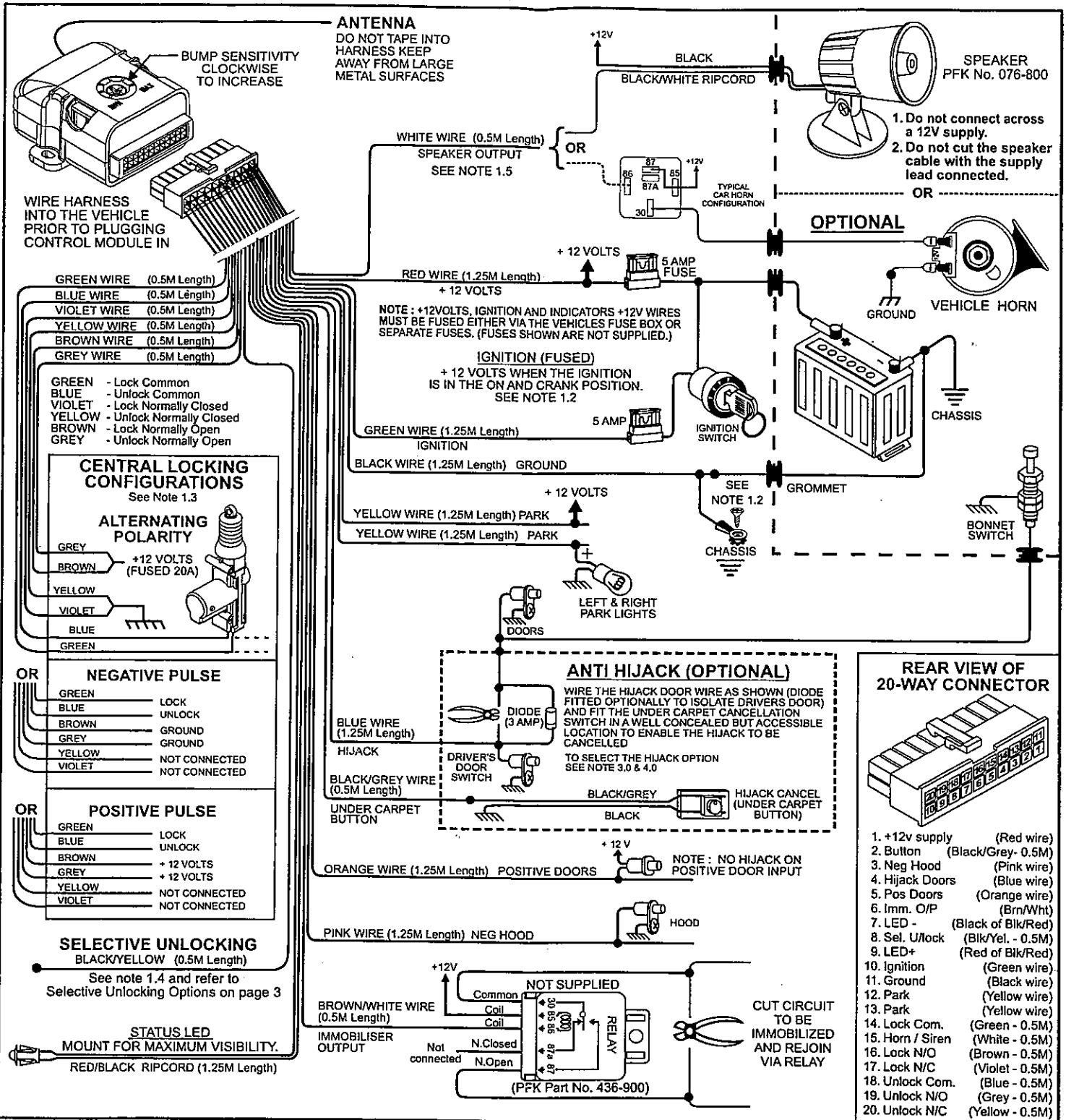
*The PIN number is also required by your Autowatch dealer should you require additional remotes.*

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**MECHANICAL INSTALLATION**

**MOUNTING**  
Ensure that the control module is mounted against a solid fixture in the vehicle to obtain the best response from the bump sensor. To increase sensitivity turn the bump sensitivity clockwise.

**1.0 WIRING**

**NOTE : SOME WIRE COLOURS ARE DUPLICATED, THEY CAN BE IDENTIFIED BY THEIR LENGTH, CHECK CAREFULLY AND ENSURE THAT YOU CORRECTLY IDENTIFY WIRES BEFORE SOLDERING INTO PLACE.**

**1.1 GROUND/CHASSIS (BLACK WIRE - 1.25M)**

Connect the wires marked "Ground" to an independent earth point.

**1.2 IGNITION (GREEN WIRE - 1.25M)**

Connect the wire marked "ignition" to a point that has + 12 volts while the ignition switch is in the "ON" and crank position. Do not connect to the auxiliary position.

**1.3 CENTRAL LOCKING (SEE TABLE 1)**

This security system incorporates relays to provide full door locking capability via the six-wire output, which can be configured to control virtually any type of vehicle locking.

**Notes:**

1. Certain types of locking systems, including some vacuum operated systems, require the activation time to be changed from 3.5 seconds to 0.4 seconds. See Table 1. (123 99)
2. Do not select the extended lock time if driving door actuators directly.
3. If required, the control unit may be programmed to automatically lock the vehicle's doors when the ignition is turned on and to unlock when the ignition is turned off. See Table 1.
4. When central locking is connected and the ignition is on, pressing any of the remote control buttons will lock and unlock the vehicle doors.

**1.4 SELECTIVE UNLOCKING (BLACK/YELLOW WIRE - 0.5M) SEE 3.0 & TABLE 1**  
Two methods of selective unlocking are available. Program option 123 41 Type 1 is suited to aftermarket installations where central locking motors are retrofitted to the vehicle. This option isolates the passenger motors by interrupting the high current wire to the motor while the drivers door unlocks. Program option 123 42 Type 2 is suited to OEM central locking configurations. With this system the unlock pulse is used to unlock the drivers door only, and the selective unlock pulse is used to unlock the other doors.

**1.5 SPEAKER SIREN/ELECTRONIC SIREN/HOOTER (WHITE WIRE - 0.5M)**  
The alarm can drive a Speaker Siren or an Electronic Siren (<500mA) directly or the vehicle hooter via a relay.  
To use a **SPEAKER SIREN** connect as shown. Ensure that the hooter option is not selected or the speaker will be damaged.  
If the vehicle **HOOTER** is used a relay must be added. There are a few variations in hooter wiring. The example given is for positive switching. Connect the white wire to pin 86 of relay and pin 85 of relay to 12V. To switch positive to the hooter connect pin 87 to 12v and pin 30 to the switched side of the hooter.  
Select 5.9 to change from audio output for a siren to pulsed neg output for hooter option and then select option 6.3, 6.4 or 6.5 to optimise time of the on/off tones for the vehicle hooter.  
To use an **ELECTRONIC SIREN** with a negative trigger wire connect the trigger wire to the white wire and connect the siren supply to ground and 12 volt. If the siren current is greater than 500mA use a relay to drive the siren. Select 6.2 to select constant negative out for the siren and select option 6.3, 6.4 or 6.5 to optimise the on/off tones.

**2.0 ONBOARD BUMP SENSOR**  
Ensure the unit is mounted against a solid fixture in the vehicle to obtain the best response from the bump sensor. To Increase sensitivity turn the bump sensitivity clockwise.

Once the unit is installed and the sensitivity is not exactly what is required, the user may also change the sensitivity via the remote:  
Alarm must be disarmed. Press and hold both buttons for 5 seconds. LED flashes rapidly, and a chirp will be heard indicating sensitivity testing has been entered. A number will be flashed out on the LED between 1 - 10 (1 = lowest sensitivity, 10 = highest sensitivity)  
The vehicle may be tested for the next 2 minutes (giving early warning for early warning adjusted sensitivity, and give half second hooter/siren output for shock adjusted sensitivity)  
If the user wants to change the sensitivity, then press the disarm button the number of times the user requires the new sensitivity to be.  
Press button within 1 second intervals. If no button press is seen for 2 seconds, then the number pressed is the new sensitivity adjustment. The LED flashes rapidly, and a chirp will be heard indicating the new sensitivity may be tested for the next 2 minutes again.  
Sensitivity testing will exit if:  
1) The remote button is pressed more than 10 times.  
2) The ignition is switched on  
3) The alarm is armed  
4) The alarm is left alone for 2 minutes without any testing.

**2.1 EARLY WARNING - SEE TABLE 1 & NOTE 3.0**  
To deselect early warning refer to the programming procedure and enter the code 123 77. See 3.0 & table 1

**3.0 PROGRAMMABLE FEATURES**  
No programming jigs are required. While disarmed, switch the ignition on and off 6 times within 6 seconds. The LED will start flashing. The number 1 2 3 is entered using the flashing LED and ignition switch. By entering the additional two digits the features as described in the Table 1. can be selected or de-selected. NOTE THAT A ZERO IS REPRESENTED BY 10 FLASHES.

If you are at any stage confused by the number of flashes, wait for 10 flashes then simply start from the beginning again.

**3.1 ENTERING PROGRAM MODE.**  
Once the installation is complete, do a functional test to ensure that the installation is working. Once you are satisfied that the basic features are working, switch the alarm off. Switch the ignition on and off 6 times within 6 seconds. The status light will begin flashing. Now enter programming mode as follows:

- Switch the ignition ON. The LED will turn steady ON.
- Switch the ignition OFF, the LED will start to flash. After 1 flash, turn the ignition ON. The LED will be steady ON. This is the first digit - "1" entered.
- Switch the ignition OFF, the LED will start to flash. After 2 flashes, turn the ignition ON. The LED will be steady ON. This is the second digit - "2" entered.
- Switch the ignition OFF, the LED will start to flash. After 3 flashes, turn the ignition ON. The LED will flash rapidly to indicate that you have entered the third digit "3" correctly and that you are in program mode. Wait until the LED is steady on again.
- Enter the first 2 digits of the feature you require. As an example, to select Hijack Option, the digits 2,2 would need to be entered. Proceed as follows:-
  - Switch the ignition OFF, the LED will start to flash. After 2 flashes, turn the ignition ON. The LED will be steady ON. This is the first function digit - "2" entered.
  - Switch the ignition OFF, the LED will start to flash. After 2 flashes, turn the ignition ON. The LED will flash rapidly to indicate that you have entered the second digit "2" correctly and the siren will sound once. The Hijack Option feature is now selected.  
You may select and deselect other features by simply entering their two digit selection code - it is not necessary to re-enter 1,2,3 before selecting a feature prior to each.

279 RL FEATURE SELECTION CHART				
ENTER THE PROGRAM CODE 1,2,3 FOLLOWED BY THE FEATURE SELECTION CODE				
OPTION	FEATURE	FEATURE SELECTION CODE	INDICATION	
			2 TONES	1 TONE
1	Trigger Report back (See 6.0)	1,1	-	-
2	Hijack Option See 4.0	2,2	Deselected*	Selected
2.4	Hijack Delay Time	2,4	90sec*	45sec
3.3	Unlock with Ignition	3,3	Deselected*	Selected
3.4	Lock with Ignition	3,4	Deselected*	Selected
3.6	Double Unlock	3,6	Deselected*	Selected
4.1	Selective unlock (Type 1) See 1.7	4,1	Deselected*	Selected
4.2	Selective unlock (Type 2) See 1.7	4,2	Deselected*	Selected
4.4	Selective unlock / Neg out	4,4	Neg Out	Selective*
5.9	Hooter/Speaker Siren	5,9	Hooter (Pulsed Neg)	Speaker Siren*(Audio)
6.2	Electronic Siren/Speaker Siren	6,2	Electronic Siren (Neg Out)	Speaker Siren*(Audio)
6.3	Horn Arming/disarming pulse 14ms	6,3	Deselected	Selected*
6.4	Horn Arming/disarming pulse 32ms	6,4	Deselected*	Selected
6.5	Horn Arming/disarming pulse 45ms	6,5	Deselected*	Selected
6.6	Alarm On/Off Tones	6,6	Deselected	Selected*
7.7	Early Warning - See 2.1	7,7	Deselected	Selected*
8.5	Auto arming alarm	8,5	Deselected*	Selected
8.7	Lock with Auto arm/ream	8,7	No Lock*	Lock
8.8	Door Open Audible Warning	8,8	Deselected*	Selected
8.9	Hazard Pulse Selection	8,9	Deselected*	Selected
9.9	Central Locking Time (0.4/3.5 sec.)	9,9	3.5 seconds	0.4 seconds*
0	Reset (Revert to Factory Setting)	0,0	LED FLASHES RAPIDLY FOR 2 SECONDS	

**TABLE 1**

FACTORY SETTINGS HIGHLIGHTED WITH A "\*" IN THE TABLE ABOVE  
NOTE : A ZERO IS REPRESENTED BY TEN FLASHES

**4.0 HIJACK OPTION (SEE TABLE 1)**  
Select the hijack feature program option 123 22. Note the alarm must be disarmed to enable or disable this feature. You can enable it or disable it by depressing the cancel button, and transmitting with the remote control simultaneously. A single tone will be heard to indicate that it is enabled, while two tones will indicate that it is disabled.

**5.0 QUICK TEST**  
To enter quick test, enter the Program Code, 1,2,3. All the siren times are shortened to facilitate quick and easy testing. To exit quick test, do not trigger the alarm for a period of two minutes and the unit will exit automatically. Alternatively, select any programmable feature.

**6.0 MEMORY REPORT BACK**  
In the event of a false alarm complaint from a customer, the cause can be easily accessed using the Memory Report Back feature. To access this information, enter the program code, 1,2,3, followed by the code 1,1. The LED begins to flash a number of times to indicate the cause of the alarm.  
These flashes are as follows:  
1 Flash : Bump Sensor  
2 Flashes : Doors  
3 Flashes : Bonnet  
4 Flashes : Ignition  
5 Flashes : Panic

The trigger information is cleared after arming and disarming the alarm 10 times.

**7.0 HAZARD PULSE (IF ENABLED) (SEE TABLE 1)**  
Default deselected. If selected (8 9), then the hazards will fire a 0.5 second pulse at the beginning of the siren trigger to turn the hazard flasher in the vehicle on, and a 0.5 second pulse at the end of the siren trigger to turn the flasher off.  
When arming, a 0.5 second On pulse, followed by a 0.5 second delay and a 0.5 second off pulse (1 flash).  
When disarming, a 0.5 second On pulse, followed by 1.5 seconds delay, and a 0.5 second off pulse (2 flashes).

**8.0 PROGRAMMING NEW REMOTE CONTROLS**  
The unit has the ability to learn up to 5 remotes. To program, refer to the 5 digit PIN code supplied with the unit or the code attached to the control module and proceed as follows:

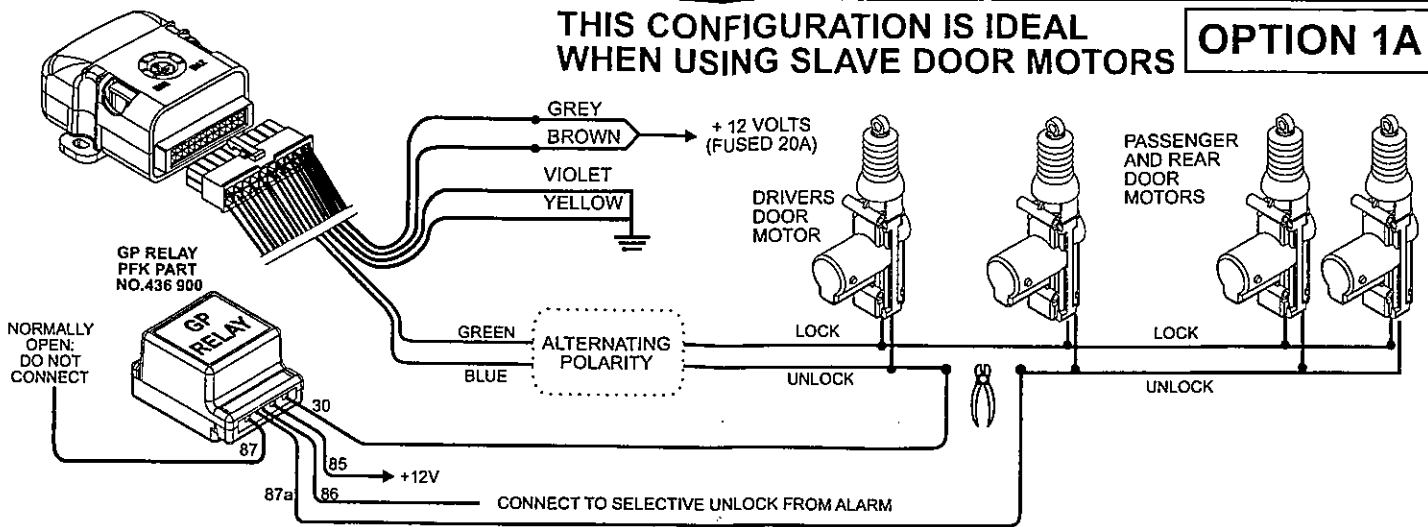
- Enter each digit of the code using the flashing LED and ignition switch. After entering the last digit, the LED will flash rapidly for 2 seconds.
- Enter the two digit code 1, 1. The LED will flash rapidly for two seconds. (Leave the ignition switch on.)
- Transmit with the new remote for approximately half a second, pausing for half a second between each transmission, until the LED flashes rapidly indicating that the remote is now programmed. Further remotes may now also be programmed.
- Note that if a sixth transmitter is programmed into the alarm system it will override the first code learnt. To remove all transmitters, fill the 5 memory spaces with 5 new transmitters, or a single transmitter 5 times. This enables you to clear the memory if your remote or touchkey has been stolen or lost.
- To exit program mode, either wait for 10 seconds without transmitting or switch the ignition off.



# SELECTIVE UNLOCKING WIRING OPTIONS

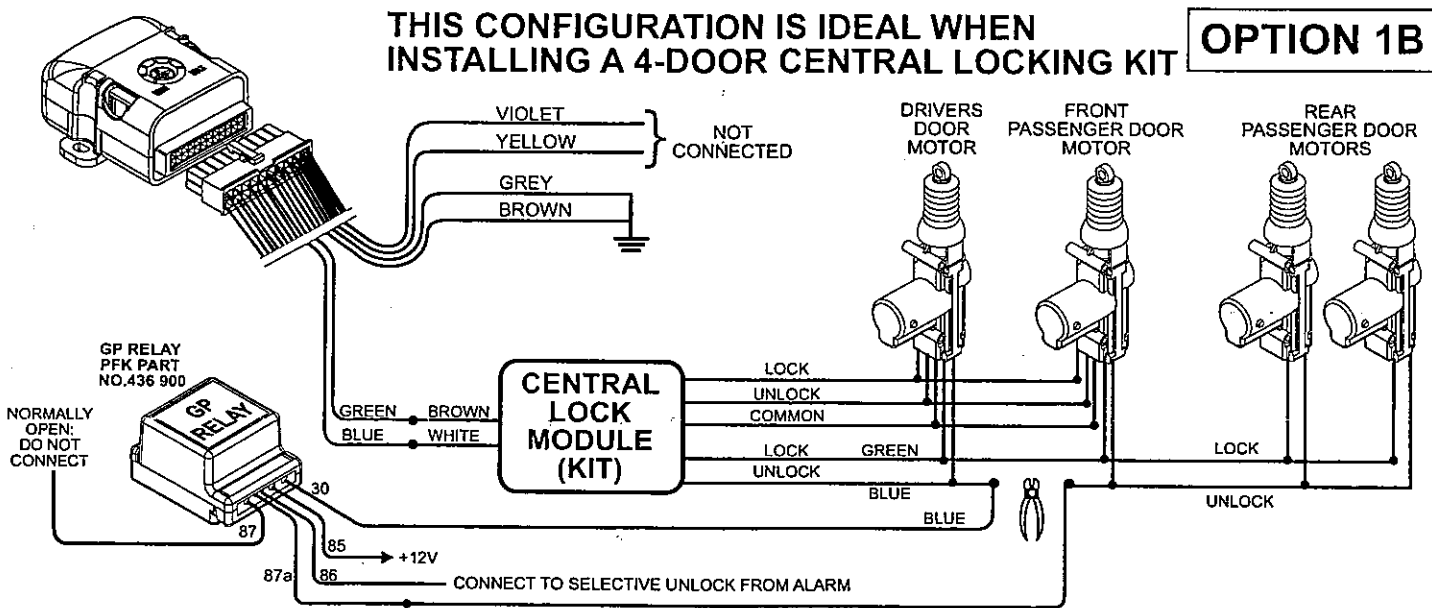
THIS CONFIGURATION IS IDEAL WHEN USING SLAVE DOOR MOTORS

**OPTION 1A**



THIS CONFIGURATION IS IDEAL WHEN INSTALLING A 4-DOOR CENTRAL LOCKING KIT

**OPTION 1B**



THIS CONFIGURATION IS IDEAL FOR MODIFYING FACTORY FITTED CENTRAL LOCKING MOTORS

**OPTION 2**

NOTE : Following this modification, the passenger doors will no longer unlock when the driver's door is unlocked manually.

