

These instructions are for the installation of vehicle immobilizer.

Order Kit 98111-06

Parts Needed:

ITEM	CPC P/N	DESCRIPTION	QTY	SEATS P/N
1	*	IMMOBILISER ASSEMBLY	1	467487
2	9907	TERMINAL. 16/14 INS, 1/4 FEMALE TAB	2	709295
3	10043	CABLE TIE	15	719504
4	2530	SCREW, 310x3/4, SHWH, T/S, TA	2	719563

* SPECIAL ORDER

NOTICE: Please read the following instructions carefully and completely before beginning. It is important to have an understanding of the overall instructions as each step is completed.

INSTALLATION OF THIS SYSTEM SHALL BE CARRIED OUT IN ACCORDANCE WITH ULC ORD 275.1

INSTALLATION NOTES (See Diagram 1. Page 4)

1.0 GENERAL

Familiarise yourself with the VESA fitment requirement before wiring the unit. (See 7.0).

- All components must be fitted in the vehicle interior.
- Choose a well concealed location for the control module.
- Do not plug the control module in until the wiring is complete and has been checked (See 2).
- All wire joints must be soldered and well insulated.
- When positioning the de-activation coil (see insert), use the Range Test Mode (see 3.1) to help select the best location of the de-activation coil before securely mounting the coil.
- When you have tested the system and are satisfied with the operation, remove all the wire identification labels. You can now fit the security housing (see 4).
- Mount the control module vertically with the wires exiting from the bottom to prevent damage resulting from water leaking into the vehicle and then into the unit.

2.0 WIRING (DO NOT REMOVE WIRE LABELS UNTIL THE UNIT IS TESTED)

2.1 IMMOBILISER CIRCUITS 1 and 2.

All circuits use 30 amp relays and have high current capability. Circuits 1 and 2 have two wires each side to ensure adequate current capability.

2.2 EXTERNAL IMMOBILISER RELAY IR1 (CIRCUIT 3.) (THIS CIRCUIT IS MANDATORY TO COMPLY WITH INSURANCE REQUIREMENTS)

The external immobiliser relay IR 1 also uses a 30 amp relay. Be sure to connect the wire marked "ignition" to a wire that has +12 volts only while the ignition is "ON" and while the starter is cranking. Connect the wire marked "External Immobiliser" to the corresponding wire from the main Control Module.

2.3 + 12 VOLTS(RED LABEL)

Connect to a fused 12 volt supply that carries battery positive continuously

2.4 IGNITION (GREEN LABEL)

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

2.5 GROUND/CHASSIS (BLACK LABEL)

Connect the wires marked "Ground" to two independent earth points, one to a reliable battery negative wire and the other to the vehicle chassis.

2.6 DOOR (BLUE LABEL)

Connect to the driver's door switch. Each time the door is opened, the de-activation coil will be energised for a short period to prematurely read the transponder. The coil is also energised each time the ignition is switched on. The door switch information is also used to access the Range Test Mode (see 3.1)

3.0 LOCATING AND MOUNTING THE DE-ACTIVATION COIL (See Diagram 1 and Insert 1)

Use the Range Test Mode to access the best location of the de-activation coil (see 3.1 below). Mount the coil using the double-sided tape provided.

3.1 ACCESSING THE RANGE TEST MODE (Typical range 20-25 cm)

To initialise the Range Test Mode, ensure that the ignition is off and the LED is flashing. Close the driver's door then open it again. . Bring the first transponder close to the coil. Once the code has been read, the LED will stop flashing. Within 5 seconds, remove the first transponder and bring the second transponder close to the coil. Once the unit reads the code of both its transponders, it will enter Range Test Mode. When the transponder is within range of the coil, the LED will flash rapidly. When the transponder moves out of range of the coil, the LED will stop flashing. The de-activation coil should be firmly mounted in position near the ignition switch which provides the best range. Range test mode is aborted if no valid transponder is read for 30 seconds or if the ignition is turned ON.

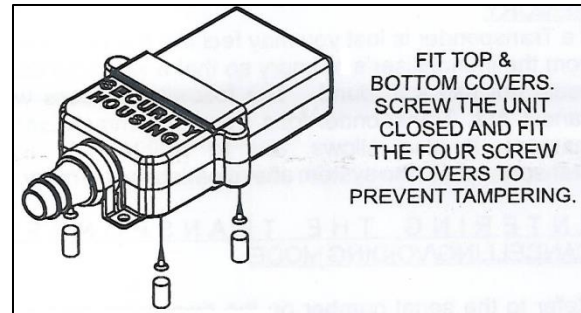
4.0 FITTING THE SECURITY HOUSING (IT IS MANDATORY THAT THE SECURITY HOUSING IS FITTED)

Once you are satisfied that the installation is complete and that the immobilizer is functioning correctly, fit the bottom half of the security housing over the immobiliser module, taking care to align the ribs on the housing with the slot in the security housing.

Fit the split grommet over the wires and push it into place in the bottom half.

Place the top security cover on and push it closed.

Screw the housing closed using the four screws provided and push the screw covers home to prevent any tampering.



5.0 SECURE OVERRIDE FACILITY

(Refer to the Service and Override card or the Operator's booklet for override code entry)

In accordance with VESA's requirements a permanent override is not permissible. However, in the event of a Transponder being lost or a malfunction, a one-event override facility is provided. Each time the immobiliser re-arms itself, the code on the Service and Override card will need to be re-entered. The code number is repeated on a tag on the transponders and on the immobilizer connector housing on the main control unit.

6. DISARMING THE IMMOBILISER

When you enter the vehicle or turn the ignition on, the immobiliser will begin to search for a Transponder. Once a code from a valid Transponder has been detected, the warning light will go out indicating that the engine can be started.

7. PERSONALISED CODE NUMBER

For some features you need your personalised serial code number which is on the Ownership Card supplied with the product. This is necessary to enter Emergency Override Mode, Cancel Transponders which are already programmed into the unit and to Program in new Transponders. The Ownership Card should, therefore, be kept safely by the customer. The same number also appears on the Transponder code tags and the main immobiliser unit.

8. ENTERING THE EMERGENCY OVERRIDE MODE

Refer to the serial number on the ownership card.

Sitting in the driver's seat of the vehicle, ensure that all PPI Transponders remain outside the vehicle for the complete process. When the Status Light (LED) begins flashing, enter each digit of the serial number individually as follows:

1. Turn the ignition on - the LED will illuminate continuously. Now switch it off and count the number flashes represented by your first digit. Now switch the ignition back on. (This is the first digit entered).
2. Repeat this procedure to enter the remaining digits of the serial number. A zero is represented by ten flashes. After entering the final digit, switch the ignition on and once the LED starts to flash, you will be able to start the vehicle.

If you make a mistake, simply start over again. To cancel Override, bring the Transponder back into the vehicle.

9. EMERGENCY OVERRIDE WARNING

When driving the car in Emergency Override Mode, you will be reminded as follows:

1. As soon as the ignition is turned off, the LED will begin flashing (10 slow flashes followed by rapid flashing).
2. When the ignition is turned on, the LED will turn on for 10 seconds and then flash for 1 minute.

For insurance reasons, the override is only on for once. If the ignition is off for longer than 30 seconds the immobiliser will re-arm.

10. CANCELLING/VOIDING TRANSPONDERS FROM MEMORY

If a Transponder is lost you may feel it is best to cancel it from the immobiliser's memory so that a thief could not use it if found. The following process will cancel ALL Transponder-fobs from the immobiliser's memory. It also allows you to re-introduce any Transponders to the system after clearing the memory.

11. ENTERING THE TRANSPONDER

CANCELLING/VOIDING MODE

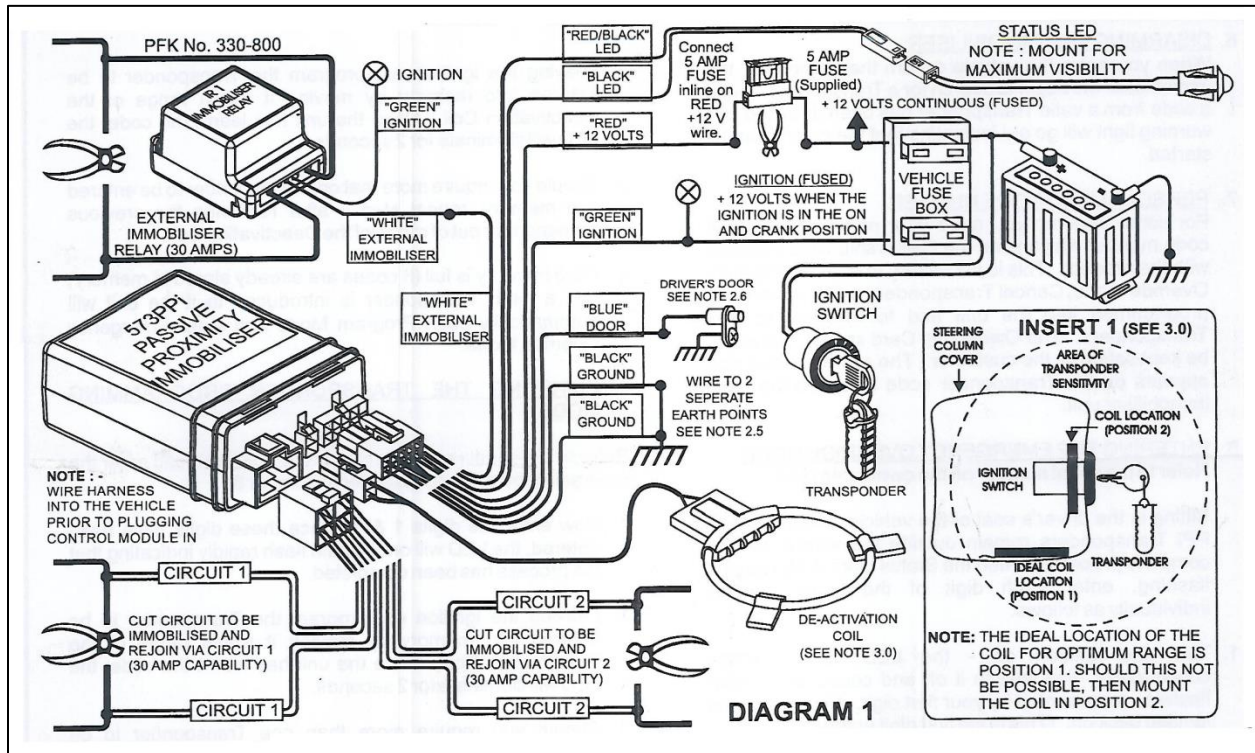
Refer to the serial number on the ownership card and enter the emergency override code (Refer to No.8)

1. Now enter the digits 5 & 5. Once these digits have been entered, the LED will once again flash rapidly indicating that the process has been completed (all transponders in memory have been cancelled/voided).
2. Leaving the ignition on, program the Transponder to be entered into memory by moving it within range of the Deactivation Coil. Once the unit has learnt the code, the LED will illuminate for 2 seconds.
3. Should you require more than one Transponder to be entered into memory, repeat step 4 after removing the previous Transponder out of range of the Deactivation Coil.
4. If the memory is full (8 codes are already stored in memory) and a ninth Transponder is introduced to it the unit will automatically abort Program Mode and enter Emergency Override Mode.

12. ENTERING THE TRANSPONDER PROGRAMMING MODE

Refer to the serial number on the ownership card and enter the emergency override code (Refer to No. 8)

1. Now enter the digits 1 & 1. Once these digits have been entered, the LED will once again flash rapidly indicating that the process has been completed.
2. Leaving the ignition on, program the Transponder to be entered into memory by moving it within range of the Deactivation Coil. Once the unit has learnt the code, the LED will illuminate for 2 seconds.
3. Should you require more than one Transponder to be entered into memory, repeat step 4 after first removing the previous Transponder out of range of the Deactivation Coil.
4. If the memory is full (8 codes are already stored in memory) and a ninth Transponder is introduced to it, the unit will automatically abort Program Mode and enter Emergency Override Mode.



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If you have any questions, please contact your distributor or Columbia ParCar Technical Service.