

## **HSV ISS (Integrated Security System)**

The HSV Integrated Security System (ISS) is a microprocessor-controlled immobiliser, which automatically provides isolation of three of the vehicles essential circuits every time the ignition is switched off. The immobiliser is disarmed using a unique coded tag, which contains a small chip with a specific code to provide maximum security.

Operation of the ISS is simple. The module arms automatically after the ignition is switched off. Disarming the system is achieved by inserting the coded tag into the socket in the status monitor. Which on a VN through to VS is located on the underside of the centre console lid. Confirmation of the disarm is provided by the LED changing from flashing to constantly on. The VS Series III (Ute or Statesman) and the VT Series 1 utilise the key reader through the ignition barrel to disarm the system. The status monitor on these vehicles is located in the glove box.

The system is supplied with two unique black user "TAGS" and one unique red "MASTER TAG", the red master tag is used only to delete stored codes for lost tags or to introduce new user tags to the system, or to 'learn' a new ignition key on VS III or VT. This is the only way for new tags to be introduced and if the red tag is lost the system has to be replaced. The system will recognise up to five black tags at any one time allowing for multiple users of the vehicle. The custom moulded housing for the tags is fully waterproof.

The electronic module has been designed so that in the event of power loss (flat battery or theft attempt) the system will return to the same operating state when power is restored, e.g. if system is armed when power is disconnected, it will return to the armed condition when power is restored.

To further enhance system security there is no connector on any of the wiring at the module. All wires entering the module are black and of the same wire gauge (except for the status monitor wiring) making it impossible to disconnect the module and plug in any form of override.

### **ESS (Embedded Security System)**

This is the system currently used on VT Series II, VX, VY, WH and WK HSV vehicles. The system disarms via the ignition key only and is a system exclusive to HSV vehicles only.

### **Services Available**

CCS's Technicians are trained and experienced in all facets of the ISS - Supply and fit replacement ISS units (i.e.: if red master tag is lost) - Replacement Black Tags - New installations of ISS to vehicles not originally fitted with one - Inspections of ISS in the event of stolen and recovered vehicles.

Holden Techline

There have been three different types of security systems fitted to HSV vehicles in addition to the standard Holden security.

**1. Imbedded Security System (ISS) – Non passive: Fitted to VS Series 2 vehicles.**

Has three barrel shaped keys (two black and one red) which can be plunged into the key pad in the centre console. The black barrel key needs to be plunged on every start up. The red barrel key is used to introduce replacement or additional black barrel keys to the ISS.

**2. Imbedded Security System (ISS) – Passive: Fitted to VS Series 3 and VT Series 1 vehicles.**

Has three barrel shaped keys (two black and one red) which can be plunged into the key pad in the glove box. This system does not require the black barrel key to be plunged on start up. The red key is used for introducing new ignition keys or additional black barrel keys to the ISS. If no red barrel keys are available to introduce new ignition keys then the black barrel key will need to be used every time the vehicle is started. If neither red nor black barrel keys are available the complete ISS system will need to be replaced. ISS red keys are not available separately as they are individually coded to their modules and can only be purchased as part of a complete ISS kit. Therefore if an owner needs a new ignition key but cannot provide the red barrel key the only option can be to remove and replace the ISS system. Dealers should try to ensure that when trading in or selling any of the above vehicles the ISS keys are passed on with the vehicle to save your customers and Service Departments inconvenience.

**3. Embedded Security System (ESS) – Passive: Fitted to VT Series 2 to VZ vehicles.**

Is a totally passive system requiring no owner input or extra keys. All diagnosis for ESS systems can be accessed on Holden SIP under HSV Models Section J Options and Accessories. When linking new keys to an old BCM or vice versa, a link enable procedure will be required. The link enable procedure is generated by Australian Arrow and their phone number is available at the end of the ESS diagnostic procedure in Holden SIP.

**HSV EMBEDDED SECURITY SYSTEM**

The HSV Embedded Security System (ESS) is a micro-processor controlled immobiliser which automatically interrupts four essential electrical circuits when in armed mode, preventing the vehicle from starting. The ESS stores important security codes and every time the vehicle is started it reads these codes. If any of these codes are different from the stored codes the ESS emits five beeps, enters armed mode, and prevents the vehicle from starting. If the ESS receives the correct codes it emits a single beep and allows the vehicle to start.

Operation of the ESS requires no extra input from the owner above the normal procedure of starting the vehicle. When ignition is switched off the module automatically enters armed mode. Disarming the system is achieved simply by inserting a correct key into the ignition barrel and turning it to the on position. Confirmation of the disarm is provided by a single beep. Conversely, if the vehicle enters armed mode when the ignition is turned on five beeps are emitted.

The ESS has been designed so that in the event of power loss to the system (flat battery or theft attempt) it will return to the same operating state when power is restored. For example, if the system is operating in armed mode when the power is interrupted, it will return to the armed condition when power is restored.

To further enhance vehicular security the module is placed in a difficult to access location and is embedded into the vehicles main wiring harness. All wiring to the module is the same colour and of the same wire gauge.

A Security Information Card is supplied with the vehicle which contains the ESS PIN. This PIN is required by the authorised service agent in the event of either a Body Control Module (BCM) replacement or if new keys need to be programmed to the vehicle. The service agent contacts Australian Arrow Pty Ltd quoting this PIN. They then get the PIN converted to a particular security code which corresponds to a sequence of vehicular functions. By performing this sequence, which is different for every vehicle, the vehicle can be fitted with a new BCM or have new keys programmed to it. There are approximately 60,000 different codes available.

The HSV ESS is an electronic immobiliser which derives its main power feed from the car battery. However, the current consumption when the ignition is turned off is zero so there will be no adverse effects to your car battery.