

## Section J

# Options And Accessories

### ATTENTION

HSV vehicles are equipped with a Supplemental Restraint System (SRS). An SRS consists of seat belt pretensioners (fitted to all front seats), and a driver's-side air bag or a driver's-side air bag AND a passenger's-side air bag and left and right side air bags. Refer to CAUTIONS, Section 12M of the Holden VY Series Service Information before performing any service operation on or around SRS components, the steering mechanism or wiring. Failure to follow the CAUTIONS could result in personal injury or unnecessary SRS system repairs.

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## 1 Purpose

The purpose of this supplement is to provide information on the special options and accessories fitted to the HSV VY models. This information is designed to supplement that contained in the Holden VY Series Service Information, and details are given where differences occur between the HSV models and standard Holden models. A series of instruction drawings detail the design changes and indicate specific part numbers, fitting instructions and relevant notes for vehicle servicing.

### NOTE

If specific technical data on a HSV model is not contained in this supplement, obtain data for that model from the relevant Holden VY Series Service Information. References are made throughout this section to Holden Service Information, to assist in providing information for specific service operations.

### CAUTION

**When hoisting (or jacking) HSV models, ensure that the lifting head of the hoist lifts on the chassis before the arm of the hoist contacts the side-skirt**

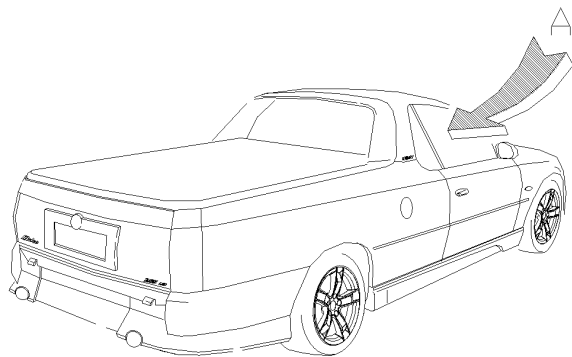
## **2 HSV Sunroof**

For Specifications, Diagnosis, General And Service Information regarding the HSV sunroof, refer to [Section 1F1 Sunroof](#) in the Holden MY 2003 VY and V2 Series Service Information.

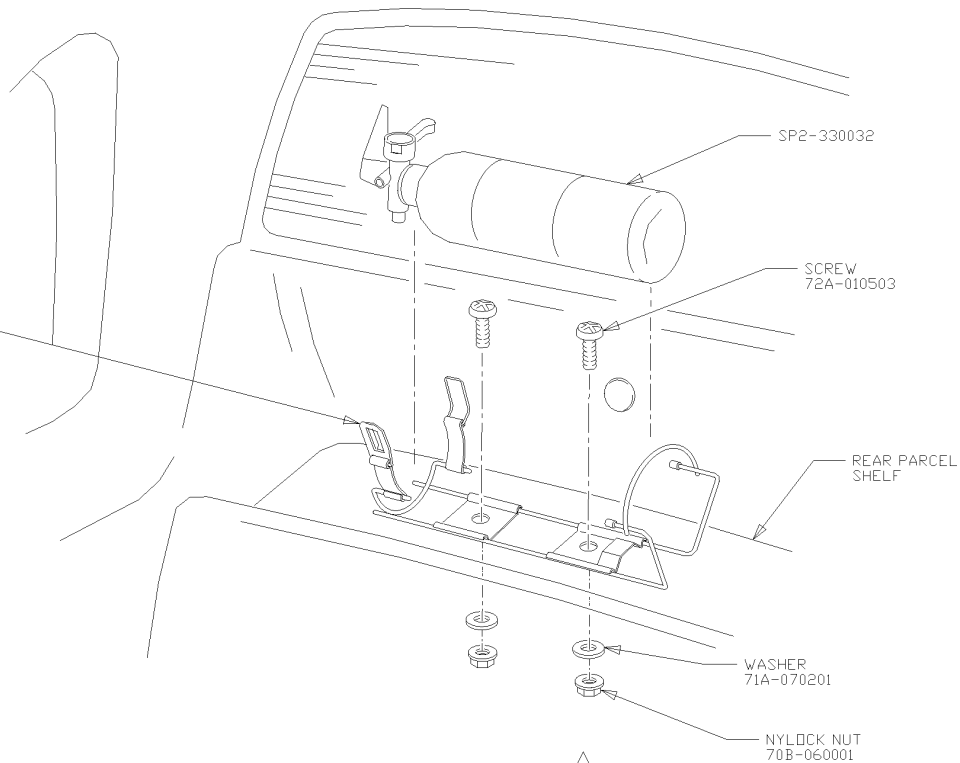
## **3 Fire Extinguisher**

### **3.1 General**

HSV VY models are fitted with a HSV design fire extinguisher. The extinguisher is located in the rear luggage compartment for sedan models. For Maloo the extinguisher is located on the right hand side of the rear parcel shelf, refer to drawing [J0I-030001](#).



BRACKET  
(PART OF FIRE  
EXTINGUISHER  
ASSEMBLY)



VIEW A

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## 3.2 Service Operations

The fire extinguisher should be subjected to a regular visual inspection in accordance with the instructions on the extinguisher. Particularly, the extinguisher should be inspected for damage and to ensure that the integral pressure gauge registers the appropriate internal pressure. When discharged or when the internal pressure is outside the prescribed limits, the extinguishers should be serviced and re-charged by an appropriate supplier. New extinguishers are available through the HSV spare parts systems.

## **4 HSV Specific Body Control Modules**

### **4.1 Changing BCM's**

If the BCM is changed, refer to HSV Embedded Security System, [Section 5.2](#) or [Section 5.3](#) in this Holden Special Vehicles Service Information Supplement.

If extra or new keys are required, refer to HSV Embedded Security System, [Section 5.4](#) in this Holden Special Vehicles Service Information Supplement.

## **5 HSV Embedded Security System**

### **5.1 General**

The new HSV Embedded Security System (ESS) is fitted as standard equipment to all HSV VTII, WH and VY models. The ESS is a micro-processor controlled immobiliser which automatically interrupts essential electrical circuits when in "armed mode". The ESS stores the BCM's security code and when the car is started it reads this code from the SCI bus. If this code is different from the stored one the ESS enters armed mode and prevents the vehicle from starting.



## **5.2 Linking the ESS to a new BCM at the Car Dealer – BCM In Warranty**

If the BCM requires replacement within the BCM warranty period, the Dealer shall be supplied with a replacement BCM programmed with the same BCM security code as the original BCM. In this case, the replacement BCM and new keys are simply fitted to the vehicle. No ESS specific requirements are needed.

### 5.3 Linking the ESS to a new BCM at the Car Dealer – BCM out of Warranty

When a BCM requires replacement outside the BCM warranty period the Dealer shall need to obtain a replacement BCM and keys from Holden's Service Parts Operation (HSPO). The replacement BCM and Keys will not contain the same BCM Security Code as the original BCM.

When a new BCM with different BCM security code is fitted to the vehicle, the dealer will have to do the following:

- Program a new key to the BCM.
- Link the BCM and PCM.

TECH 2 must be connected to the vehicle diagnostic connector whilst the key is being programmed and/or ESS is being linked to the vehicle. The Link Enable Procedure is required to be performed twice to allow an all new key to be programmed and also allow the ESS learn to learn the BCM security code. The procedure for programming a new key to a new BCM and linking the ESS to the vehicle is as follows:

- 2 Fit new BCM to the vehicle.
- 3 Ensure all doors, boot and bonnet are closed, all doors are unlocked, dome lamp is in the 'doors' position and the radio, headlight and wash-wipe switches are off.
- 4 Place **new key** into the ignition barrel.
- 5 Turn ignition on. Verify ESS beeps 5 times.
- 6 TECH2 must be operating in the "**Data Display \ Inputs & Outputs**" submenu of the Body Control Module submenu.
- 7 Perform the Link Enable Procedure (see **Section 1.5**). Wait 1 second between each lock unlock to ensure the door lock actuators function correctly during this procedure.
- 8 Verify that the ESS beeps twice. TECH2 reports ignition is at 12Vdc. The ESS has now entered "Key Programming mode".
- 9 Select Key Programming function – "All New Key" - from the security sub-menu in the body menu of the TECH2. Enter BCM security code as requested by TECH2. Complete key programming as requested by TECH2.
- 10 Turn ignition off and wait for 2 seconds. Turn ignition on.
- 11 Verify ESS beeps 5 times. (At this stage the ESS is in "armed mode").
- 12 TECH2 must be operating in the "**Data Display \ Inputs & Outputs**" submenu of the Body Control Module submenu.
- 13 Perform the Link Enable Procedure (see **Section 1.5**). Wait 1 second between each lock unlock to ensure the door lock actuators function correctly during this procedure.
- 14 Verify that the ESS beeps twice. TECH2 reports ignition is at 12Vdc.
- 15 Link the PCM to the BCM using TECH2. ESS beeps twice (ESS has now learned the BCM security code).
- 16 Turn ignition off. Wait until TECH2 programming is complete.
- 17 Turn ignition on.
- 18 Turn ignition off. Wait 2 seconds.
- 19 Turn ignition on.
- 20 Verify ESS beeps once. The ESS is now operating in "normal mode".
- 21 Crank engine. Verify vehicle starts as normal.

## 5.4 Key Programming Mode.

Once the ESS has been placed into key programming mode the ESS will behave as if in “sleep mode” for one ignition cycle only. This allows for the one ignition cycle that is required to program a new key to a new or existing BCM. The ESS will enter “normal mode” for the next ignition cycle. If the BCM is a new BCM in the vehicle with a new security code, the ESS will then enter “armed mode” as expected.

### Programming Extra Keys to the Vehicle

Programming more keys for the vehicle can be achieved using TECH2 once the ESS has been re-linked to the vehicle as described as follows:

- 1 Ensure all doors, boot and bonnet are closed, all doors are unlocked, dome lamp is in the ‘doors’ position and the radio, headlight and wash-wipe switches are off.
- 2 Place **new key** into the ignition barrel.
- 3 Turn ignition on. Verify ESS beeps 5 times.
- 4 TECH2 must be operating in the “**Data Display \ Inputs & Outputs**” submenu of the Body Control Module submenu.
- 5 Perform the Link Enable Procedure (see **Section 1.5**). Wait 1 second between each lock unlock to ensure the door lock actuators function correctly during this procedure.
- 6 Verify that the ESS beeps twice. TECH2 reports ignition is at 12Vdc. The ESS has now entered “Key Programming mode”.
- 7 Select Key Programming function – “Extra Key” - from the security sub-menu in the body menu of the TECH2. When TECH2 requests ignition to be cycled with the **existing key**, leave the **new key** in the ignition barrel and instead, press the unlock button on the **existing key**. Verify the ESS beeps once and the Theft Deterrent LED stops flashing. Complete key programming as requested by TECH2.
- 8 Turn ignition off and wait for 2 seconds.
- 9 Turn ignition on. Verify ESS beeps once. The ESS is now operating in “normal mode”.
- 10 Crank engine. Verify vehicle starts as normal.

### Programming All New Key

Programming an All New Key for the vehicle can be achieved by performing the following procedure:

- 1 Ensure all doors, boot and bonnet are closed, all doors are unlocked, dome lamp is in the ‘doors’ position and the radio, headlight and wash-wipe switches are off.
- 2 Place **new key** into the ignition barrel.
- 3 Turn ignition on. Verify ESS beeps 5 times.
- 4 TECH2 must be operating in the “**Data Display \ Inputs & Outputs**” submenu of the Body Control Module submenu.
- 5 Perform the Link Enable Procedure (see **Section 1.5**). Wait 1 second between each lock unlock to ensure the door lock actuators function correctly during this procedure.
- 6 Verify that the ESS beeps twice. TECH2 reports ignition is at 12Vdc. The ESS has now entered “Key Programming mode”.
- 7 Select Key Programming function – “All New Key” - from the security sub-menu in the body menu of the TECH2. Enter BCM security code as requested by TECH2. Complete key programming as requested by TECH2.
- 8 Turn ignition off and wait for 2 seconds.
- 9 Turn ignition on. Verify ESS beeps once and Theft Deterrent LED is off. The ESS is now operating in “**Data Display \ Inputs & Outputs**”.
- 10 Crank engine. Verify vehicle starts as normal.

## 5.5 Link Enable Procedure

Each ESS has its own unique Link Enable Code (LEC), programmed into each ESS by HSV. This code corresponds to a unique sequence of 10 vehicle body functions comprising of the following actions:

1. Drivers door. Open then Close.
2. Drivers door. Lock then Unlock.
3. Wash-Wipe. On then off.

Approximately 60,000 link enable codes are available.

**For the Link Enable Procedure contact Australian Arrow Pty Ltd Customer Service quoting ESS PIN and Vehicle Identification / Tag Number.**

**Telephone: (03) 9785 0792**

**Facsimile: (03) 9775 0954**

## 5.6 Service Operations

In the event of a suspected ESS failure the following check sheet must be followed.

**HSV – EMBEDDED SECURITY SYSTEM (ESS) CHECK SHEET (VT.II / WH / VY).**

In the event of a suspected ESS failure, fill in the following check sheet.

| STEP | ACTION  | MEASURED VALUE  | YES | NO |
|------|---|---|-----|----|
|      | What type of vehicle has the suspected ESS failure?   | VT.II : <input type="text"/> VY : <input type="text"/><br>WH : <input type="text"/>                                 |     |    |
| 1    | Turn ignition to ON position and listen for the number of beeps.  | Zero beeps: <input type="text"/><br>One beep: <input type="text"/><br>Five beeps: <input type="text"/> Other: _____ |     |    |
| 2    | With the ignition in the ON position, is the Theft Deterrent Led flashing?  |   |     |    |
| 3    | Turn Ignition switch to the Start position.<br>Does the vehicle start?  |   |     |    |
| 4    | Has there been a BCM replacement?   |   |     |    |
| 5    | Remove the EFI relay and back probe terminal 85 (as per figure 1 for VT.II / WH Vehicle or as per figure 3 for VY Vehicle), with reference to Ground.<br>With the Ignition switch to ON, measure DC voltage.  | _____ volts DC.   |     |    |
| 6    | Remove Fuel Pump relay and back probe terminal 1 (as per figure 1 for VT.II / WH Vehicle or as per figure 3 for VY Vehicle), to measure continuity with reference to Ground.<br>Turn the ignition to ON, measure resistance.  | _____ Ohms.   |     |    |
| 7    | For VY Vehicle Disconnect Engine Connector (X206 located above passenger kick panel) and back probe pin 9 (as per figure 4) with reference to ground.<br>For VT.II / WH Vehicle Disconnect Engine Connector (YE112) and back probe pin (as per figure 2), with reference to Ground.<br>Turn the ignition to ON, measure DC voltage. | _____ volts DC  |     |    |
| 8    | Is communications with Tech 2 active?   |   |     |    |
| 9    | With TDL flashing, operate "Unlock" button on the Remote Control.<br>Does the TDL stop flashing?  |   |     |    |

Dealer Code: \_\_\_\_\_ ISOVIN: \_\_\_\_\_ Vehicle Build Date: \_\_\_\_\_

Km's: \_\_\_\_\_ ESS Pin No: \_\_\_\_\_ BCM Part No: \_\_\_\_\_ BCM Barcode No.: \_\_\_\_\_

This check sheet must signed by the Service Manager. \_\_\_\_\_ Date: \_\_\_\_\_

Fax the completed copy to Australian Arrow Customer Service. Facsimile: (03) 9775 0954.

**HSV – EMBEDDED SECURITY SYSTEM (ESS) DIAGNOSTIC PROCEDURE (VT.II / WH / VY).**

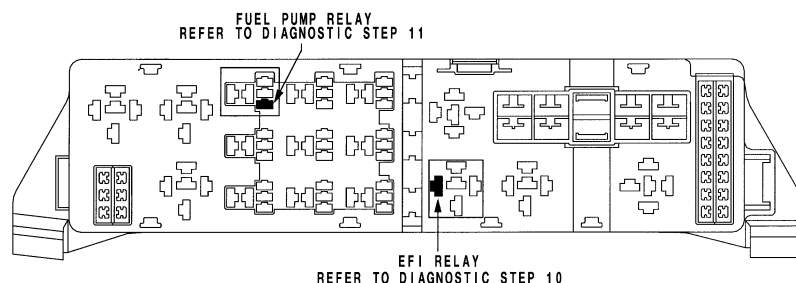
| STEP | ACTION  | VALUE   | YES  | NO   |
|------|---|---|--|--|
| 1    | <ul style="list-style-type: none"> <li>Turn ignition to ON position.</li> <li>Is one (1) beep audible?</li> </ul>   |   | <ul style="list-style-type: none"> <li>Go to Step 2</li> </ul>                                   | <ul style="list-style-type: none"> <li>Go to Step 3.</li> </ul>  |
| 2    | <ul style="list-style-type: none"> <li>Turn Ignition switch to the Start position.</li> <li>Does the vehicle start?</li> </ul>  |   | <ul style="list-style-type: none"> <li><b>System O.K, return vehicle to customer.</b></li> </ul> | <ul style="list-style-type: none"> <li>Go to Step 11.</li> </ul>   |
| 3    | <ul style="list-style-type: none"> <li>Are five (5) beeps audible?</li> </ul>   |   | <ul style="list-style-type: none"> <li>Go to Step 13.</li> </ul>                                 | <ul style="list-style-type: none"> <li>Go to Step 8.</li> </ul>  |
| 4    | <ul style="list-style-type: none"> <li>Turn Ignition switch to the Start position.</li> <li>Does the vehicle start?</li> </ul>  |   | <ul style="list-style-type: none"> <li>Go to Step 5.</li> </ul>                                  | <ul style="list-style-type: none"> <li>Go to Step 6.</li> </ul>  |
| 5    | <ul style="list-style-type: none"> <li><b>Contact Australian Arrow Customer Service.</b></li> </ul>   |   |  |  |
| 6    | <ul style="list-style-type: none"> <li>Has there been a BCM replacement?</li> </ul>   |   | <ul style="list-style-type: none"> <li>Go to Step 5.</li> </ul>                                  | <ul style="list-style-type: none"> <li>Go to Step 14.</li> </ul>   |
| 7    | <ul style="list-style-type: none"> <li><b>Perform Serial Data Communications diagnostic as per Holden Service Information, then go to Step 5.</b></li> </ul>  |   |  |  |
| 8    | <ul style="list-style-type: none"> <li>Zero beeps were audible?</li> </ul>  |   | <ul style="list-style-type: none"> <li>Go to Step 9.</li> </ul>                                  | <ul style="list-style-type: none"> <li><b>Record number of beeps, then go to Step 5.</b></li> </ul>              |
| 9    | <ul style="list-style-type: none"> <li>Turn Ignition switch to the Start position.</li> <li>Does the vehicle start?</li> </ul>  |   | <ul style="list-style-type: none"> <li>Go to Step 5.</li> </ul>                                  | <ul style="list-style-type: none"> <li>Go to Step 10.</li> </ul>   |
| 10   | <ul style="list-style-type: none"> <li>Remove the EFI relay and back probe terminal 85 (as per figure 1 for VT.II / WH Vehicle, or figure 3 for VY Vehicle), with reference to Ground.</li> <li>With the Ignition switch to ON, Is the value as specified?</li> </ul>   | <ul style="list-style-type: none"> <li>12 volts DC.</li> </ul>  | <ul style="list-style-type: none"> <li>Go to Step 5.</li> </ul>                                  | <ul style="list-style-type: none"> <li><b>Refer to Service Information and check Ignition system.</b></li> </ul> |
| 11   | <ul style="list-style-type: none"> <li>Remove Fuel Pump relay and back probe terminal 1 (as per figure 1 for VT.II / WH Vehicle or as per figure 3 for VY Vehicle), with reference to Ground.</li> <li>Turn the ignition to ON. Is the value as specified?</li> </ul>   | <ul style="list-style-type: none"> <li>Less than ten (1) Ohm.<br/>(Test Vehicle 49.6 Ohms)</li> </ul> | <ul style="list-style-type: none"> <li>Go to Step 12.</li> </ul>                                 | <ul style="list-style-type: none"> <li>Go to Step 5.</li> </ul>  |
| 12   | <ul style="list-style-type: none"> <li>For VY Vehicle Disconnect Engine Connector (X206 located above passenger kick panel) and back probe pin 9 (as per figure 4) with reference to ground.</li> <li>For VT.II / WH Vehicle Disconnect Engine Connector (YE112) and back probe pin (as per figure 2), with reference to Ground.</li> <li>Is the value as specified?</li> </ul> | <ul style="list-style-type: none"> <li>12 volts DC</li> </ul>   | <ul style="list-style-type: none"> <li>Go to Step 5.</li> </ul>                                  | <ul style="list-style-type: none"> <li>Go to Step 5.</li> </ul>  |

| STEP | ACTION   | VALUE | YES  | NO  |
|------|--|-------|--|---|
| 13   | <ul style="list-style-type: none"> <li>Is the Theft Deterrent Led flashing?</li> </ul>   |       | <ul style="list-style-type: none"> <li>Go to Step 4.</li> </ul>  | <ul style="list-style-type: none"> <li>Go to Step 5.</li> </ul>   |
| 14   | <ul style="list-style-type: none"> <li>Is the communications with Tech 2 active?</li> </ul>  |       | <ul style="list-style-type: none"> <li>Go to Step 15.</li> </ul> | <ul style="list-style-type: none"> <li>Go to Step 7.</li> </ul>   |
| 15   | <ul style="list-style-type: none"> <li>With TDL flashing, operate "Unlock" button on the Remote Control.</li> <li>Does the TDL stop flashing?</li> </ul> |       | <ul style="list-style-type: none"> <li>Go to 5.</li> </ul>       | <ul style="list-style-type: none"> <li><b>Refer to Theft Deterrent System diagnostics in Holden Service Information.</b></li> </ul> |

NOTE : FOR VT.II / WH VEHICLE REFER TO FIGURE 1 & 2.

FOR VY VEHICLE REFER TO FIGURE 3 & 4.

## RELAY BOX



**FIGURE 1**

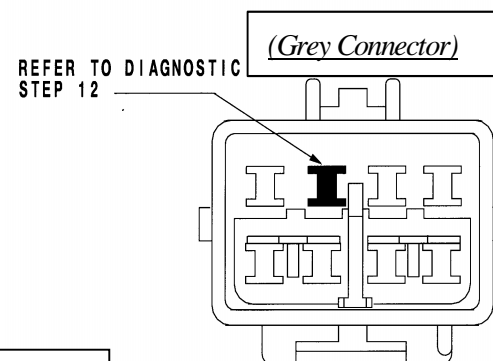
**Australian Arrow Pty Ltd.**

**Customer Service.**

**Telephone: (03) 9785 0792**

**Facsimile: (03) 9775 0954**

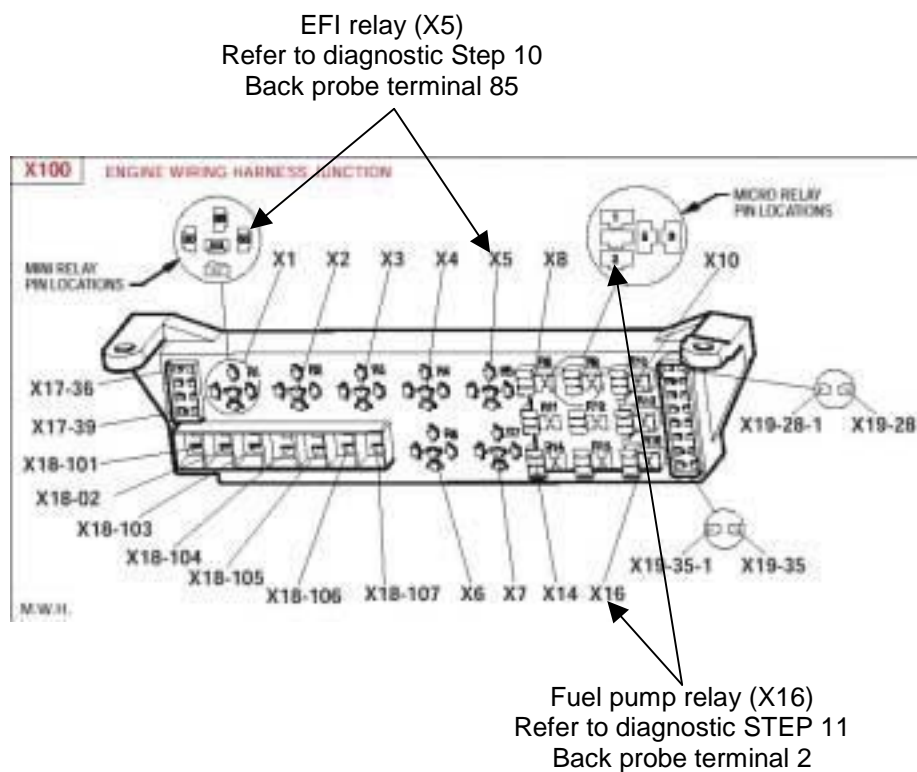
## ENGINE HARNESS 3 YE112



**FIGURE: 2**  
LOOKING TOWARDS FIREWALL



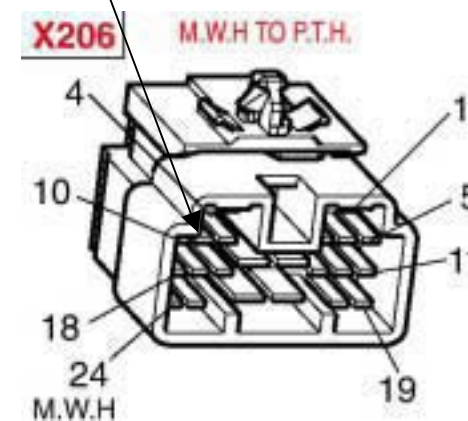
### Engine Bay Relay Box



**FIGURE 3**

### Engine Harness Connector X206

Refer to diagnostic step 12 (Pin 9)



**FIGURE 4**

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**Customer Service**  
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**Facsimile: (03) 9775 0954**

## **6 Electrochromic Mirrors**

### **6.1 General**

Electrochromic mirrors are a standard fitment to all VY Senator vehicles. The mirror features an electronically controlled mirror cell which changes colour in response to an applied electrical voltage. This allows automatic darkening of the mirror during night driving when the headlamps of a following vehicle shine on an integrated light sensor. This function only operates when the integral sensor detects low ambient (i.e. at night time). The mirror operates automatically however, an AUTO/MANUAL switch provides the driver with the option for the mirror to be darkened during low ambient light conditions regardless of presence or absence of following headlamps. When reverse gear is selected, the mirror automatically lightens.

## **7 HSV Fog Lamps**

### **7.1 General**

HSV Fog lamps are fitted directly to the front fascia of all HSV VY models. The HSV lamps use a glass convex reflector to provide a wide-angle beam concentrated in a range of 30 to 40 metres in front of the lamp. The external lense incorporates a clear horizontal section.

Fog Lamps should be only used in adverse weather conditions i.e. fog. Use of fog lamps on hot sunny days may result in failure from overheating. These are not daylight running lights.

## 7.2 Service Operation

No periodic servicing of the HSV lamps is required. Globes may be replaced by removing a water-tight access cover on the rear of the lamp, unclip the two spring clips which retain the globe carrier at the focal point of the reflector. Remove the globe and wire assembly from the seal, discard globe and replace with a new 12 Volt, 55 Watt H3 Globe assembly. Replacement fog lamps available through HSV are identified as follows

|            |                                |
|------------|--------------------------------|
| 12C-020601 | LAMP FOG – CLUBSPORT/GTS/MALOO |
| 12C-020901 | LAMP FOG - SENATOR             |

### NOTE

Condensation may appear on the lense of the fog lamp when appropriate ambient conditions exist. This condensation will clear as the ambient conditions change or after four or five minutes operation of the fog lamps