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Remanufactured Automotive Electronics Components

PRODUCT SERVICE INFORMATION

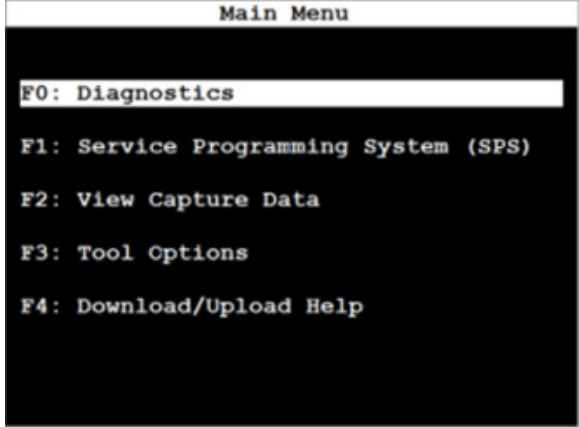
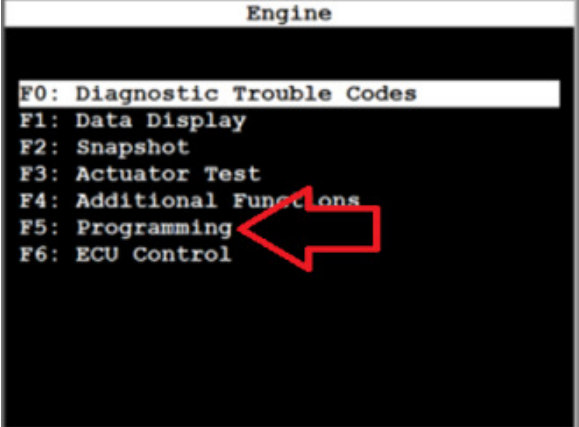
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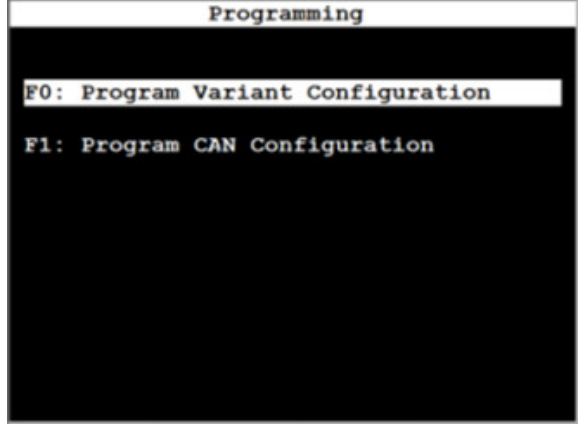
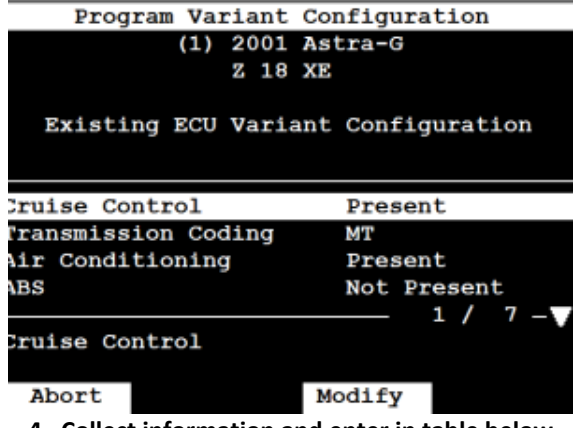
For further technical information regarding testing, repairs or to search for New or Remanufactured Automotive electronic products, please visit www.injectronics.com.au, call our office on (+613) 8792 6999, or email sales@injectronics.com.au

Vehicle: Holden Astra TS2

Subject: ECM variant coding programming

Note: Below images are for reference only and are captured images from a Tech 2 scan tool performing this procedure. Before removing original ecm, connect scan tool to vehicle with original ECM still installed in order to retrieve the vehicles variant coding.

 <p>Main Menu</p> <p>F0: Diagnostics</p> <p>F1: Service Programming System (SPS)</p> <p>F2: View Capture Data</p> <p>F3: Tool Options</p> <p>F4: Download/Upload Help</p>	 <p>Engine</p> <p>F0: Diagnostic Trouble Codes</p> <p>F1: Data Display</p> <p>F2: Snapshot</p> <p>F3: Actuator Test</p> <p>F4: Additional Functions</p> <p>F5: Programming</p> <p>F6: ECU Control</p>
1. Navigate to the Astra G Z18 XE Engine menu.	2. Select 'F5 Programming'

 <p>Programming</p> <p>F0: Program Variant Configuration</p> <p>F1: Program CAN Configuration</p>	 <p>Program Variant Configuration</p> <p>(1) 2001 Astra-G Z 18 XE</p> <p>Existing ECU Variant Configuration</p> <table border="1"><tr><td>Cruise Control</td><td>Present</td></tr><tr><td>Transmission Coding</td><td>MT</td></tr><tr><td>Air Conditioning</td><td>Present</td></tr><tr><td>ABS</td><td>Not Present</td></tr></table> <p>1 / 7 - ▾</p> <p>Cruise Control</p> <p>Abort Modify</p>	Cruise Control	Present	Transmission Coding	MT	Air Conditioning	Present	ABS	Not Present
Cruise Control	Present								
Transmission Coding	MT								
Air Conditioning	Present								
ABS	Not Present								
3. Collect the information from both menus, Variant & CAN.	4. Collect information and enter in table below								

Stage 1: Collect Information by following instructions above:

Security Code: _ _ _ _ _

Cruise Control: Y N Transmission: MT AT MTA CVT Air Con Y N ABS Y N

Traction Control: Y N Vehicle Dynamics Y N Geometry: Close Wide

Transmission CAN: Y N TC/ESP CAN: Y N

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Stage 2:

This unit has been pre programmed to suit a specific build date and VIN range. Any attempt to re-flash this unit or to change the VIN number (using the GM SPS system) will void the warranty.

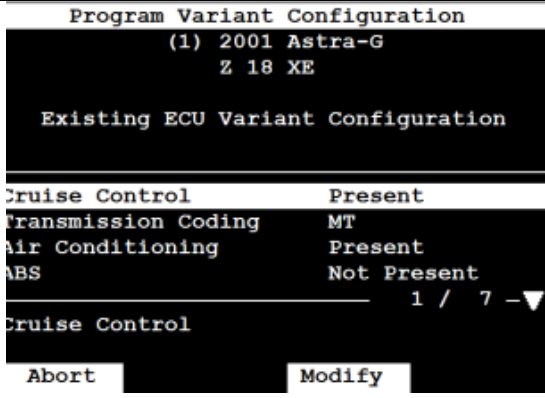
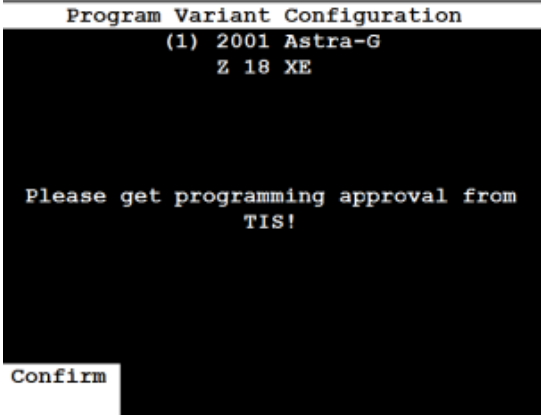
To install this unit you will require a capable scan tool.

Install the unit in the vehicle.

Code the unit to the vehicle using the 4 digit immobiliser PIN code.

Set the variant coding to match the systems installed in the vehicle. Ensure that CAN variants are also programmed correctly. Clear any stored fault codes.

Stage 3: Variant Programming

 <p>1. Go to the Variant Programming menu as shown in Stage 1</p>	 <p>2. Select 'Modify' to change Variant or CAN Configurations</p>
 <p>3. You may get this when changing variant coding</p>	<p>4. The Tech 2 must be connected to the PC to get programming approval</p>

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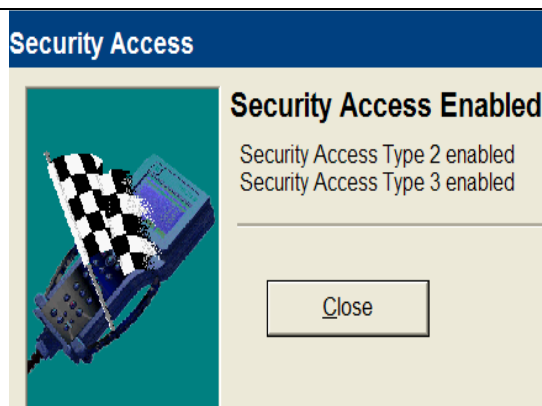
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5. Select the Security Access Icon

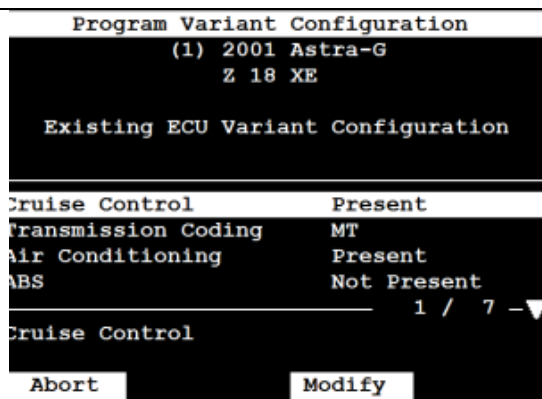


6. Choose Tech 2 and click Next

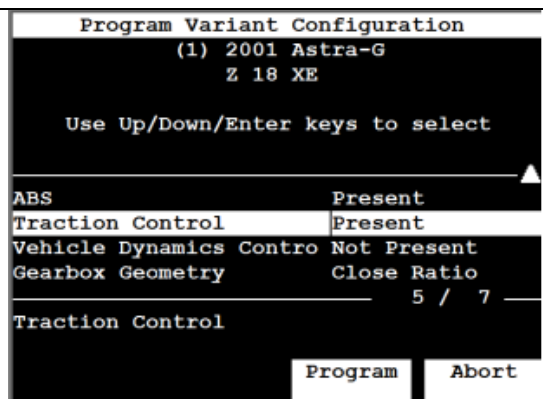


7. After a Short delay access will be enabled.

8. Connect the scan tool back to the vehicle and return to the Variant coding menu



9. Select 'Modify', use the up and down arrows to select the item

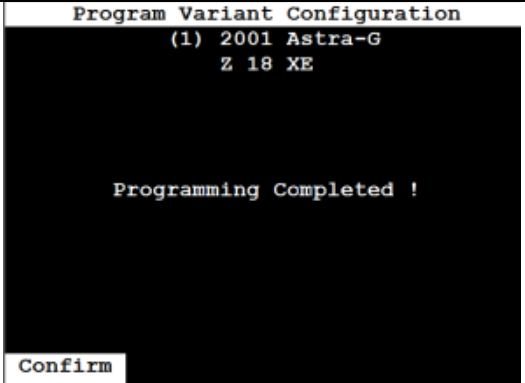
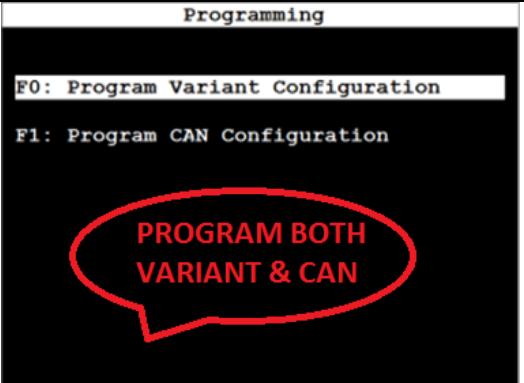


10. Pressing Enter on the scan tool modifies the values. Select 'Program' to save changes

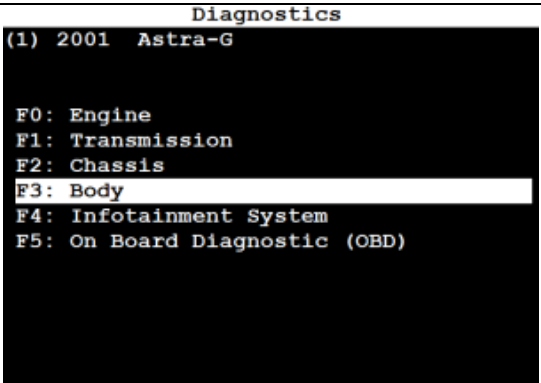
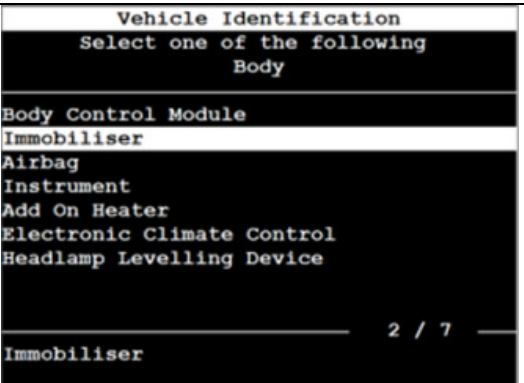
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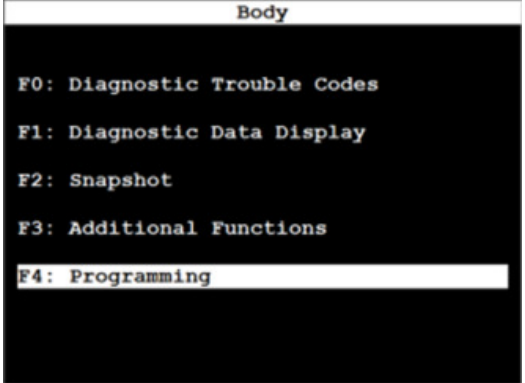
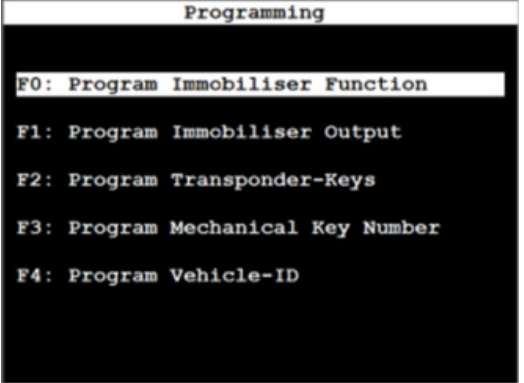
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 <p>11.</p>	 <p>12. Remember to check both Variant and CAN configurations.</p>
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Stage 4: Immobiliser Matching.


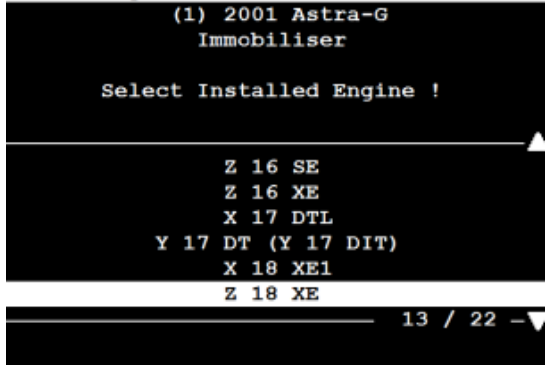
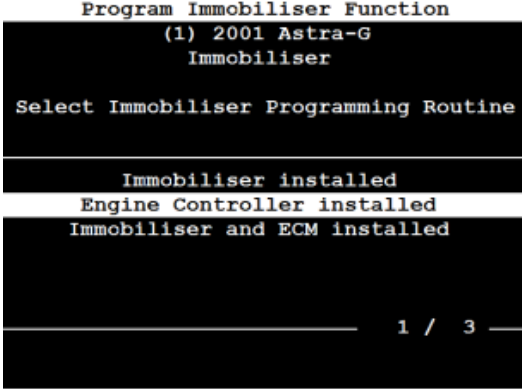
 <p>13. Navigate to the Astra G menu</p>	 <p>14. Select 'Immobiliser'</p>
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 <p>15. 'F4 Programming'</p>	 <p>16. 'F0 Program Immobiliser Function'</p>
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 <p>Program Immobiliser Function (1) 2001 Astra-G Immobiliser</p> <p>Enter Security Code !</p> <p>7833</p> <p>Press ENTER key to continue</p>	 <p>Program Immobiliser Function (1) 2001 Astra-G Immobiliser</p> <p>Select Installed Engine !</p> <p>Z 16 SE Z 16 XE X 17 DTL Y 17 DT (Y 17 DIT) X 18 XE1 Z 18 XE</p> <p>13 / 22</p>
17. Enter the correct Security code & confirm it	18. Select the correct engine for the vehicle
 <p>Program Immobiliser Function (1) 2001 Astra-G Immobiliser</p> <p>Select Immobiliser Programming Routine</p> <p>Immobiliser installed Engine Controller installed Immobiliser and ECM installed</p> <p>1 / 3</p>	20. Follow the scan tool prompts to cycle ignition on and off, then Matching will be completed.
19. Select 'Engine Controller Installed'	

Stage 5: ECM learns basic settings

1. Erase any Fault Codes in the ECM
2. Erase any fault codes in the TCM
3. Start the Engine and allow it to Idle for 1 minute
4. Turn on Air Conditioning if fitted
5. Cycle through all gear selections if automatic transmission is fitted.
6. Take the vehicle for a complete drive cycle.

Important Note:

If before or after replacing ECM, the vehicle logs P0606 (ECM processor fault) or P1600 (ECM program error) fault codes, please be sure to check / replace ignition coil pack as particular branded coil packs have been found to be the cause of such fault codes being logged.

Please contact IM Group for replacement RAE branded coil packs which have been designed to eradicate such fault codes being logged.

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