Vehicle: Holden Barina XC
Subject: ECM programming

Required Equipment: Tech 2, TIS-2000

Stage 1: Collect Information

| VIN:          | W 0 L 0 __ __ __ __ __ __ __ __ __ __ __ __ |
| 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 |
| Oil Life: | Y N |

Connect Tech 2 to vehicle with original ECM installed

Navigate to the Z 14/16 XE Engine menu.

Select ‘F5 Programming’

Collect the information from both menus.

Collect information and enter in table above
Stage 2: SPS Programming.

Click on the Service Programming Icon within TIS2000

Select 'Replace and Program ECU' Click next.

Stage 2: SPS Programming (Cont).

Follow the on-screen instructions.

Select F1, Service Programming menu

Information will be read from the ECM
Select correct year and vehicle type. Corsa-C

Barina Z 14 XE Engine

Stage 2: SPS Programming (Cont)

ECU data is now stored in Tech 2 memory. Connect the scan tool to the PC with the data cable. Turn Tech 2 Off and then On again. Do NOT press any keys on Tech 2. TIS2000 will read data from scantool.
Click ok if Service ECU warning appears.

Enter the VIN, use Zeroes, not oh’s

Select ‘Normal’ Programming Type

Select the Correct engine type, etc. Click next

A summary of the software versions are displayed. Click next

SPS Data is loaded into scan tool
The Scan tool now must be connected to the Vehicle so ECM programming can be started.

Follow the on-screen instructions.

Select ‘F1 Program ECU’ on Tech 2.

Follow the steps on scan tool turning key on and off, programming will start.

Now the ECU has the correct software revision loaded, and the VIN number is programmed.

Exit from the Tech 2 SPS system.
Enter the Tech 2 Diagnostics system
Select the correct Year
Select Corsa C, Select Engine, Select 14 XE
Select Programming

Programming takes a few minutes.
**Stage 3: Variant Programming**

Go to the Variant Programming menu as shown in Stage 1.

Select ‘Modify’ to change Variant or CAN Configurations.

You may get this when changing variant coding.

The Tech 2 must be connected to the PC to get programming approval.

Choose Tech 2 and click Next.
Stage 3: Variant Programming (Cont)

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

After a short delay, access will be enabled.

Select ‘Modify’, use the up and down arrows to select the item.

Pressing Enter on the scan tool modifies the values. Select ‘Program’ to save changes.

Remember to check both Variant and CAN configurations.
Stage 4: Immobiliser Matching.

Navigate to the Corsa-C menu

Select ‘Immobiliser’

‘F4 Programming’

‘F0 Program Immobiliser Function’

Enter the correct Security code and confirm it

Select the correct engine for the vehicle
Stage 4: Immobiliser Matching (Cont)

Select ‘Engine Controller Installed’

Follow the scan tool prompts to cycle ignition on and off, then Matching will be completed.

Stage 5 ECM Learns basic settings

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