

Injectronics

Remanufactured Automotive Electronics Components

PRODUCT SERVICE INFORMATION

Document number: P0006

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: Ford Falcon BA / AU2 / AU3

Subject: Smart shield system / PATS style system

These instructions are intended as a guide only and the user accepts that their full knowledge and experience to work on the vehicles system is essential. Reference to genuine factory workshop information is recommended before commencing any work.

Note: The Hanatech scan tools can be used to erase existing keys and program new keys. This procedure can be used if additional keys need to be programmed and two existing keys are available or if a replacement BEM is ever fitted to the vehicle.

Note: Ensure battery is in good condition & battery charge rate is within spec. Low battery voltage can cause BCM to lose synchronisation with PCM.

Procedure:

1. Turn the ignition ON
2. Plug in the Hanatech scan tool and turn the power on.
3. Select 'Enhanced scan' Select 'Australian'
4. Select 'Ford' Select 'Diagnostics' Select 'Falcon'
5. Select 'BA, AU2 or AU3' whichever is required.
6. Select 'Forte or Futura or XR' whichever is required
7. Select 'Body BEM AU2 and AU3 or Engine PCM for BA. **This is an important step.** Do not select Series 1
8. Select 'Security'
9. Now a disclaimer will appear and ask you to input the last 4 digits of your serial number from the back of the scan tool. Read this carefully and if you agree to it, press Yes.
10. Next a warning will appear telling you that you should have two keys available and that the battery is in good working order or you may encounter 'System Lockdown'. Press any key after you have read this warning and all is ok.
11. Now select 'BEM - Keycode Erase'
12. Turn key to the off position, remove the key and close all doors. Then press 'Enter'
13. Now a full page of instructions will appear. You will have to follow these instructions quite quickly.
14. Within 5 seconds - turn key On (the doors will cycle once)
15. Turn the key Off and remove from the ignition barrel
16. Within 5 seconds insert the 2nd key and turn the key to the On position (the door locks will cycle twice)
17. Turn the key off and remove from the ignition barrel.
18. Repeat the above steps if a third or 4th key is required.
The BEM will now exit the key learn mode after 10 seconds, cycling the door locks once. Press the 'Enter' key.
19. Note: Sometimes it will take more than one attempt to complete this procedure

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Warning: The procedure below will automatically erase the PCM code stored in the BEM. Before the vehicle can be started the PCM code must be reprogrammed into the BEM using the Parameter Reset procedure as follows:

To reattach the BEM to the PCM a Parameter Reset must be performed using the Hanatech scanner

PCM - Parameter Reset Procedure:

1. Now select 'Parameter Reset' on the menu
2. Turn ignition on and press 'Enter'
3. A message will appear 'Please wait this will take approximately 10 minutes' to complete
4. After 10 minutes, the door locks will cycle and the message 'Function Completed' will appear
5. Cycle the ignition off then start the vehicle

Note: A slight delay may be experienced, the key may have to be in the start (crank) or on position for 1 to 3 seconds to allow for complete system validation before the engine will start.

Important: Sometimes it will take more than one attempt to complete this procedure.

Keypad training:

If you have replaced the BEM or wish to add or replace lost keypads with new keypads, you need to train the key codes to the BEM.

Procedure:

1. Turn the ignition switch to the off position
2. Turn the ignition key to the ACCESSORIES position and within 5 seconds, operate the rear demister switch exactly 3 times (ON, OFF, ON)
3. After the 5 seconds is up, the door locks will change state to indicate the BEM has entered the learn mode. All existing keypad codes are immediately erased.
4. Press either of the buttons on the keypad. The door locks will change state twice to indicate the BEM has learnt the keypad.
5. Follow step 4 for each keypad. You can train up to 4 keypads. You must teach all of the keypads to the BEM before proceeding to step 6
6. When you have taught all of the keypads, turn the ignition switch to either RUN or OFF position to check the function of each keypad that has been trained

Note: If a keypad has been lost follow steps 1,2,3 and 6. This will erase the code of the lost keypad from the BEM and prevent unauthorised entry to your vehicle.

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