

# TECHNICAL INFORMATION

## SERVICE ACTION

### Market Program BCU for Battery Drain



No: H220  
Ref:  
Issue: 1  
Date: 08/15/00

#### AFFECTED VEHICLE RANGE:

Discovery Series II (LT)

YA274971 to YA290737

#### SITUATION:

##### QUIESCENT BATTERY DRAW RESULTS IN DEAD BATTERY

A new Body Control Unit (BCU) has been introduced into production. A programming condition may prevent the BCU from entering "sleep" mode, resulting in an electrical draw that may cause a discharged battery if the vehicle is not driven regularly.



**CAUTION:** Several features of the new BCU, including additional memory, offer improvements to BCU-related functions. The new unit is sufficiently different from the old that a revised TestBook disc (INTERIM DRG0011 or later) must be used when working with the new BCU. It is very important to determine which BCU is installed in a vehicle BEFORE any repair procedures are performed. Failure to do so will induce faults into the systems governed by the BCU.

#### RESOLUTION:

##### BCU MARKET PROGRAM ON ALL VEHICLES WITHIN VIN RANGE



**NOTE:** All vehicles still in retailer inventory within the affected VIN range, whether PDI has been performed or not, should be inspected and if necessary programmed prior to delivery.

Because of the potential for battery drain, all vehicles in retailer inventory and all customer vehicles within the listed VIN range should be inspected and configured at the earliest service opportunity. The BCU market program and dealer configuration selections should be programmed from TestBook disc INTERIM DRG0011 or higher to ensure that the battery drain issue has been corrected.

#### PARTS INFORMATION:

LRN0002LABEL.....Service Campaign Label      Qty 1 (Order Quantity 1 = 100)

#### WARRANTY CLAIMS:

H220 (Option 1).....0.15 hrs

Inspect for mark and apply Service Campaign Label  
Includes material allowance for label

H220 (Option 2).....0.50 hrs

Configure BCU to ensure market and retailer option conditions  
Includes material allowance for label

*Normal warranty policy and procedures apply*

TIB	CIRCULATE:	Service Mgr	Warranty	Workshop	Body Shop	Parts
H220	TO	X	X	X	X	X

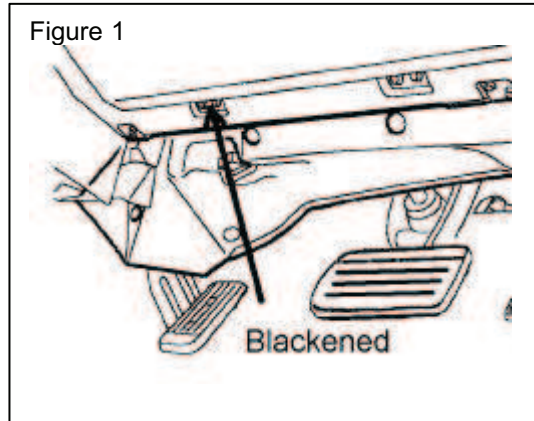
## REPAIR PROCEDURE

### INSPECTION



**NOTE:** Some vehicles have been inspected for battery drain configuration problems at the Port of Entry. These vehicles have been marked. No market program is required if the appropriate mark is present.

1. Inspect the passenger compartment fuse block cover fasteners for a blackened screw head on one of the LH fastener positions. (Figure 1)
2. If the screw has been blackened, apply the Service Campaign label.
3. If the screw is *not* colored black, perform the market program.



### MARKET PROGRAM



**CAUTION:** Use of correct TestBook diagnostics when working with the BCU is vital:

- Always use the latest TestBook disc when performing BCU function activities.
  - Attempts to use a TestBook disc DRG0009 or earlier with a 48K BCU will induce system errors.
1. Switch TestBook on.
  2. Insert TestBook disc INTERIM DRG0011 into TestBook.
  3. Connect to vehicle.
  4. Select "Diagnostics System" button.
  5. Select appropriate model and year (2000 MY Discovery Series II).
  6. Enter full 17 digit VIN.
  7. Confirm vehicle information on screen.
  8. From System Selection menu, select "Vehicle Configuration."
  9. Press "Continue" when prompted, ignore transit mode warning.



**NOTE:** Recording selected Dealer Configuration status is important to ensure that customer option selections, if made, are retained. Customer options will be reset to the default during the market configuration steps.

10. Select "Dealer Configuration."
  - Select "Non-Class" and note currently selected options using the chart on page 4 or print the selected options screen.
  - Select "Class" and note currently selected options using the chart on page 4 or print the selected options screen.
11. Exit to "Select Required Option" screen and select "Market Programming."



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**NOTE:** TestBook will show that the vehicle is already programmed to the USA or Canadian market. To complete this process, disregard the displayed USA or Canadian selection.

12. Select "YES" to change market.
13. Enter letter "U" to access US market or "C" to access the Canadian market.
14. Select "U.S.A." or "Canada" as appropriate
15. Select "NO" to transit mode prompt.
16. After reprogramming is complete, select "NO" to display vehicle configuration.
17. Refer to tables on page 4 and apply any unique vehicle configurations noted in step 11 above.
  - Select "Non-Class" and choose options as indicated on the table.
  - Select "Class" and complete the chart and choose options indicated on the table.



**CAUTION:** The next step is important. Failure to exit diagnostics will result in problems.

18. Exit Diagnostics.

## SERVICE CAMPAIGN LABEL INSTALLATION



**NOTE:** Campaign labels may have multiple campaign numbers written on them if multiple campaigns are performed at the same time.

1. When all specified repairs have been accomplished, prepare the campaign label (LRN0002LABEL) as follows:
  - a) Place the label on a hard surface.
  - b) Use a ballpoint pen to neatly write/scribe in the bare aluminum areas of the label the following information:
    - Service Campaign code performed ("H220")
    - Your Retailer code
    - The date of repair
2. Peel the label back, apply to radiator support and roll the label with the special roller.

Figure 2

The figure shows a rectangular form for a service campaign label. It has three input fields for 'CAMPAIGN', 'RETAILER', and 'DATE'. Below these fields are two small circular logos, each containing the text 'LAND ROVER'. At the bottom center of the form, the text 'SERVICE CAMPAIGN' is printed.

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<b>NON-CLASS</b>	
Front Fog	1. None
	2. Main
	3. Dipped
DRL	1. None
	2. No heads
Wash Wipe	1. Normal
	2. No wipe
HF Screen	1. None
	2. Fitted
Courtesy Heads	1. Disabled
	2. Enabled

<b>CLASS</b>	
Superlock	1. None
	2. Double
Unlocking	1. Not SPE
	2. SPE
Alarm Disarm	Not configurable
Speed Locking	1. Disabled
	2. Enabled
Volumetric	1. Disabled
	2. Enabled
Alarm	Not configurable
Passive	Not configurable
Hazards	Not configurable
Mislock	1. Disabled
	2. Enabled
Sounder	Not configurable
Bathrobe	Not configurable
Alarm Tamper	Not configurable
Immobilizer	Not configurable
Low Battery	Not configurable
EKA	Not configurable