



# TECHNICAL BULLETIN

No: LA-414-001  
Issue: 1  
Date: 11 Jan 2006

<b>CIRCULATE: TO</b>	<b>Service Mgr</b> X	<b>Warranty</b> X	<b>Workshop</b> X	<b>Body Shop</b> X	<b>Parts</b> X
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**SECTION:** 414-01

## Battery Junction Box Connections

### AFFECTED VEHICLE RANGE:

Land Rover LR3 (LA)                      VIN: ALL

### CONDITION SUMMARY:

#### **INOPERATIVE ELECTRICAL FEATURES**

A customer may report a variety of concerns relating to warning lamps being displayed on the instrument pack or inoperative electrical circuits.

**Cause:** Diagnosis may indicate power supply problems. The complaints may be as a result of a poor connection or damaged / dislodged terminals in the battery junction box (BJB).

**Action:** Upon customer complaint of this type of electrical fault, refer to the Repair Procedure detailed in this bulletin for troubleshooting and corrective action.

### PARTS:

Information Only

### TOOLS:

YRW500030.....Wiring connector extraction tool (part of the wiring harness repair kit).

### WARRANTY:



**NOTE:** Repair procedures are under constant review, and therefore times are subject to change; those quoted here must be taken as guidance only. Always refer to DDW to obtain the latest repair time.

DDW requires the use of causal part numbers. Labor only claims must show the causal part number with a quantity of zero.

<i>Description</i>	<i>SRO</i>	<i>Time (Hours)</i>	<i>Condition Code</i>	<i>Causal Part</i>
Perform connector checks of engine compartment fuse box	86.70.89/94	0.30	42	YMB501912

*Normal warranty policy and procedures apply.*

**NOTE:** The information in Technical Information bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment required to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers."  
If you are not a Retailer, do not assume that a condition described affects your vehicle. Contact an authorized Land Rover service facility to determine whether the bulletin applies to a specific vehicle.

## REPAIR PROCEDURE

### VERIFY AND CORRECT WIRING CONNECTIONS IN BJB



**NOTE:** GTR lookup sequence is as follows:  
GTR Home > NAS > Service Information/ LA LR3/2006 > Workshop Manuals > Discovery 3/LR3 2005 Workshop Manual > Bookmark Electrical/Battery and Charging System "414-00 Charging System General Information" > Link "Specifications"

1. Refer to GTR Workshop Manual Section 414-00 and disconnect the battery ground cable.
2. Remove the battery junction box cover. (Figure 1)
3. Remove the securing bolt and disconnect the battery positive supply cable to the junction box at the battery terminal. (Figure 1)
4. Note all fuse positions and ratings and remove all of the mini-fuse blade fuses from the battery junction box.
5. Remove the securing bolt and release the junction box from the bracket to gain access to the underside of the fuse box. (Figure 2)
6. Release the plastic tie from the underside of the junction.
7. Release junction box upper cover as follows:
  - Release the lower retaining tangs. (① in Figure 3)
  - Separate the upper cover from the junction box. (② in Figure 3)



**NOTE:** Care should be used to avoid damage to the retaining tangs. If damage is sustained, the part should be replaced (YPW500090).

8. Release the retaining tangs securing the fuse terminal anti-backout panel to the battery junction box and remove the panel. (Figure 4)
9. Inspect the fuse electrical terminals for damage.

Figure 1

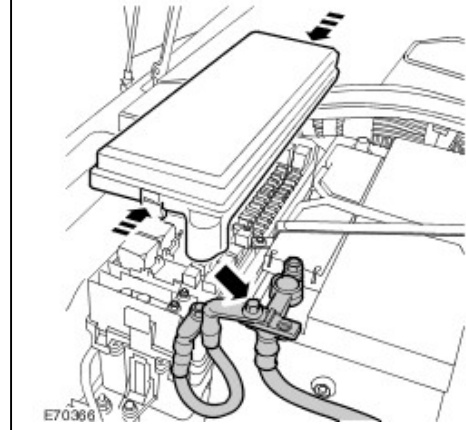


Figure 2

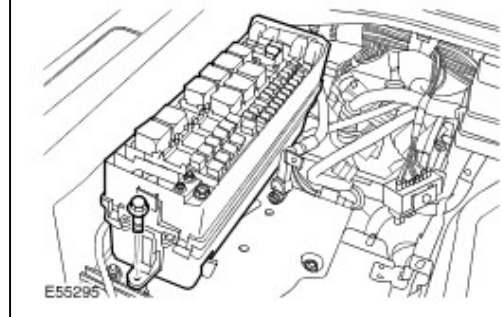


Figure 3

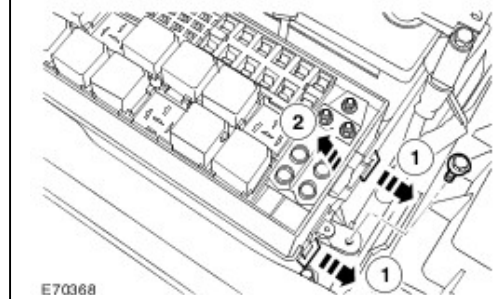
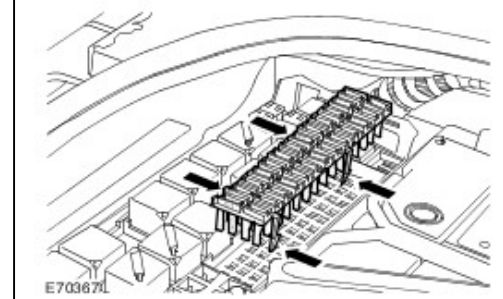


Figure 4



10. If the fuse terminal is damaged or the fuse is not held securely when inserted, replace the damaged terminal as follows:

- Using special tool YRW500030 from the harness repair kit, release the damaged terminal from the aperture by disengaging the terminal securing tang and pulling the wire/terminal from the underside of the fuse box. (Figure 5)
- Cut the terminal wire approximately 100mm (4 inches) from the terminal. (Figure 5)
- Place a piece of heat-shrink wiring insulation over the cut wire and move aside.
- Using the new terminals supplied with the repair kit (YPL900310 - 2.5mm blue wire – SPX Reference 418-587-14), splice the new terminal wire to the cut wire.
- Position the heat shrink insulation over the wiring joint and apply heat to shrink the insulation.

**CAUTION:** Ensure correct terminal orientation. The terminal location pegs must align with the terminal aperture slots.

**NOTE:** A positive location must be achieved and the wire must be retained once it is inserted.

11. If fuse terminal is *not* correctly latched in place, insert the terminal completely into the correct aperture and verify retention.
12. Install the junction box upper cover and secure the two lower retaining tangs.

**CAUTION:** The fuse terminal anti-backout panel must not be bent or bowed during insertion. It must be kept as flat/level as possible to avoid damaging the securing tangs.

**NOTE:** Ensure the fuse terminal anti-backout panel securing tangs align correctly.

13. Install the fuse terminal anti-backout panel:
14. Align the fuse terminal anti-backout panel securing tangs.
15. Hold the panel level and insert evenly.
16. Install the junction box securing bolt.

**CAUTION:** The correct fuse must be installed into the each location following the notations made above in Step 4.

17. Install the fuses using the fuse location label on the junction box cover and the notes made as a guide.

**CAUTION:** The cable must be correctly located and secured onto the battery terminal.

18. Install the junction box positive cable onto the battery terminal and torque to **10-14Nm (7.5-10lb-ft)**.
19. Install the battery junction box cover.
20. Connect the battery ground cable.

Figure 5

