

# TECHNICAL INFORMATION



## 1999 MY Interstate Battery Installation

No: 86/02/99/NAS  
 Ref:  
 Issue: 1  
 Date: 02/26/99

**AFFECTED VEHICLE RANGE:**

**RANGE ROVER (LP)** After XA410504  
**DISCOVERY (LT)** All

**SITUATION:**

**INSTALLATION OF INTERSTATE BATTERIES**

Because of slight dimensional differences between the OEM batteries and the Interstate replacement batteries, the use of spacers is required in certain applications.

**RESOLUTION:**

**INSTALL REPLACEMENT INTERSTATE BATTERY USING PROPER SPACERS**

Range Rover: If present, ensure that the plastic "U-section" spacer between the hold-down bracket and the battery top is retained for use with the Interstate battery.

Discovery Series II: When installing an Interstate MT-34 replacement battery ensure that the Interstate height adapter (Interstate number 34/78) is securely clipped to the bottom of the battery.

**PARTS INFORMATION:**

INTERSTATE PART NUMBER	APPLICATION	REPLACES CATALOG NUMBER
MT – 34	1994-99 Discovery Requires bracket spacer AMR3679S	STC8269
	1995 Range Rover Classic	
	1999 Discovery Series II Requires use of Interstate height adapter 34/78	YDG100850
29H – VHD	1995-99 Range Rover (Up to XA410503)	STC8588
	1993-97 Defender	
31P – MHD	1999 Range Rover (After XA410504)	YDG100860

**WARRANTY CLAIMS:**

**DISCOVERY SERIES II**

86.15.01 ..... Time 0.30 hrs.  
 Install replacement battery

**RANGE ROVER**

86.15.01 ..... Time 0.35 hrs.  
 Install replacement battery

*Normal warranty policy and procedures apply*

TIB 86/02/99/NAS	CIRCULATE: TO	Service Mgr X	Warranty X	Workshop X	Body Shop X	Parts X
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## REPAIR PROCEDURE:

### BATTERY REMOVAL



**WARNING:** During battery removal, always disconnect the negative battery terminal first. Accidental contact of wrench to any grounded metal part could cause a severe spark, possibly resulting in personal injury.

1. Refer to Workshop Manual and remove battery cover.
2. Disconnect negative and positive battery terminals.
3. If a Discovery, remove locknuts and securing nuts from battery clamp.
4. If a Range Rover, remove locknut, securing nut and retaining bolt from battery clamp.
5. Remove clamp, spacer, if present, and battery.

### RANGE ROVER REPLACEMENT BATTERY INSTALLATION

1. Install battery.
2. Connect positive battery terminal and torque clamp bolt to **4-6 Nm (35-53 lbf.in.)**.
3. Connect negative battery terminal and torque clamp bolt to **4-6 Nm (35-53 lbf.in.)**.
4. Install battery clamp, battery spacer and torque fasteners as follows:
  - Rear lower nut **1.7-2.3 Nm (15-20 lbf.in.)**
  - Rear upper locknut **7-10 Nm (62-89 lbf.in.)**
  - Front bolt **22-28 Nm (16-20 lbf.ft.)**
5. Install battery cover and secure.

### DISCOVERY SERIES II REPLACEMENT BATTERY INSTALLATION

1. Install height adapter on base of battery.
2. Install battery/adaptor assembly.
3. Position battery clamp.
4. Install four battery clamp and spacer nuts.
5. Torque nuts and locknuts as follows:
  - Lower nuts **1.3 Nm (12 lbf.in.)**
  - Upper locknuts **7-10 Nm (62-89 lbf.in.)**
6. Connect positive battery terminal and torque clamp bolt to **4-6 Nm (35-53 lbf.in.)**.
7. Connect negative battery terminal and torque clamp bolt to **4-6 Nm (35-53 lbf.in.)**.