



# Derby Lightweight DMU

Thank you for your choice of the Bachmann Branchline Derby Lightweight diesel multiple unit.

## General

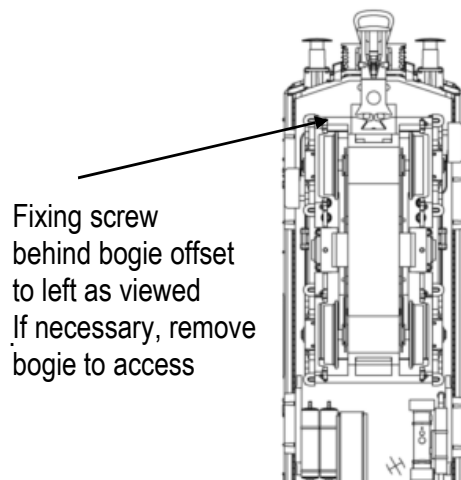
The mechanism of this model requires running in for approximately 1 hour in each direction at moderate speed to allow the gear train to bed in.

When required, sparingly lubricate the motor bearings using plastic compatible light oil and the gear train with model grease.

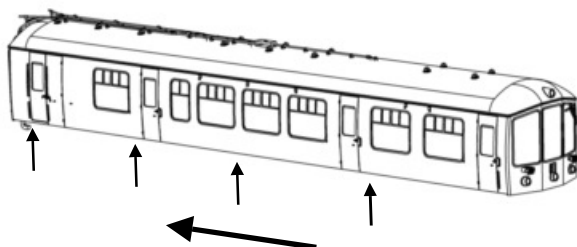
Bachmann Branchline locomotives are not suitable for use on track tighter than second radius (18 inches)

## Body removal

Remove the one screw as indicated on the diagram. Ease the lower bodyside away from the clips each side to release.



Fixing screw  
behind bogie offset  
to left as viewed  
If necessary, remove  
bogie to access



Location of bodyside clips: ease body from solebar starting from cab end and work back to rear of unit

## DCC Decoder fitting to DC model

The power car uses an 8 pin and the trailer car a 6 pin. Use a decoder with matching fittings (for example Bachmann 36-553 for the 8 pin or 36-558A for the 6 pin)

Run in a DC model first on a DC power supply to confirm correct operation before installing the decoders. Carefully remove the blanking boards and locate the decoders in the sockets, aligning the decoders to the marks on the PCB:

Power car - black wire to pin 4 mark

Trailer car - pin 1 at rear of car

## Control of lights with DCC

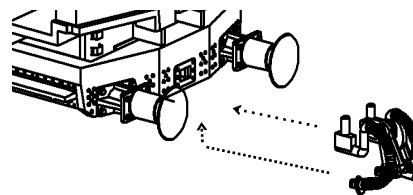
When using a decoder with the appropriate number of function outputs, the onboard lights can be controlled as follows:

F0 - Head lights / tail lights turned on / off

Internal lights are permanently on

For correct operation of the directional lights in the trailer car the direction of operation of the decoder should be reversed. This is controlled by bit 0 of CV29 and a value of 1 should be added to the value held in CV29

## Buffer beam parts



Cosmetic coupling fits to hole in buffer beam

Pipes fit to holes underneath buffer beam

## Hints for best results on DCC

The operation of a DCC loco requires that the power to the model is not interrupted. Track, wheels and pickups should be kept clean and all rail joiners must give good connections between sections of track. Improved reliability of DCC performance may be obtained by deselecting DC operation of the model on the decoder. This is usually controlled by CV29, Bit 2

## Replacement Parts

- |   |         |   |
|---|---------|---|
| 1 | 325-001 | PCB - lighting                                  |
| 2 | 325-002 | driveshaft                                      |
| 3 | 325-004 | complete power bogie with gears, wheels & frame |
| 4 | 325-005 | bogie-unpowered                                 |
| 5 | 325-006 | motor   |
| 6 | 325-008 | motor bracket                                   |
| 7 | 325-007 | lower PCB with running lights                   |

When ordering parts please quote the catalogue number together with the livery of the model (if appropriate) and number of the part required.

Parts are subject to availability.  
Unlisted parts are generally not available.

Packets of couplers suitable for this model are available from retailers  
Item 36-030 (outer end of unit)  
Item 36-055 (inner end of unit)

## Bachmann Europe Plc

Moat Way  
Barwell  
Leicestershire  
LE9 8EY  
01455 841756  
[www.bachmann.co.uk](http://www.bachmann.co.uk)

**The model should be handled carefully as it has many finely detailed parts. It is not suitable for persons under 14 years.**

E3251-IS001  
Rev 02/09/11

