

Thank you for your choice of the Bachmann Branchline Class 40 diesel locomotive.

General

The mechanism of this model requires running in (without a load) for approximately 1 hour, in each direction, at moderate speed to allow the gear train to bed in.

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

Body removal

Remove the screws indicated the bogies and at each end of the locomotive

DCC Decoder fitting to non DCC fitted loco

This model has a 21-pin interface for a decoder with an appropriate fitting. Fit the decoder as indicated with the black socket fitting uppermost. It is recommended that the running in as above be carried out using a DC power supply before moving on to fit a DCC decoder If this is a 'DCC Onboard' or 'DCC Sound' model please also refer the accompanying DCC instruction sheet.

Lights

When the locomotive is fitted with a DCC decoder the lights can be turned on/off with these handset keys:

F0 Directional head and tail lights

F1 Cablights

The tail lights and / or cablights can be separately turned off using the switches beneath the fuel/water tank

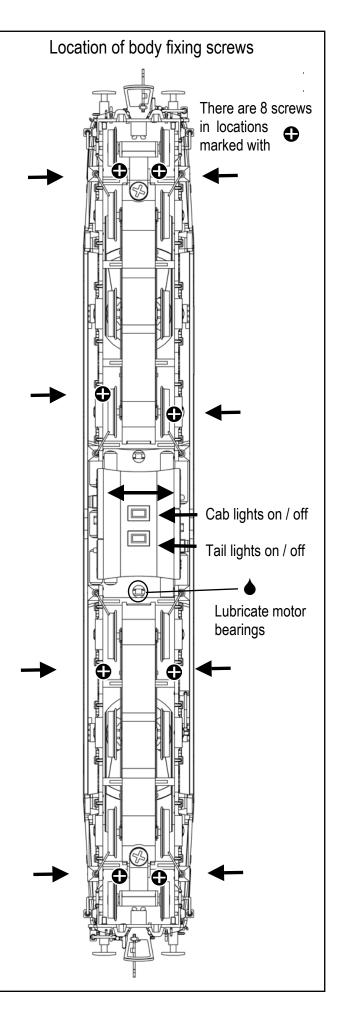
Lubrication

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

Bufferbeam parts

The brake pipes fit as shown on the diagram. The pipes are not suitable for use with the functional coupler on tight curves.

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





Replacement Parts

- 1 475-006 motor
- 2 475-008 PCB
- 3 475-010 motor bracket
- 4 475-009 driveshaft
- 5 475-013 underframe
- 6 475-013 bogie tower top
- 7 475-032 driving wheels
- 8 475-022 bogie
- 9 BL2007 drive cup
- 10 475-030 bogie frame

A spare blanking board is included with DCC decoder fitted models

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.

Packets of couplers (item 36-030) suitable for this model are available from retailers

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Headcode discs

A selection of disc headcode arrangements applicable to the Class 40s with discs

O open disc Closed disc

Express passenger

Ordinary / branch passenger

Fully brake fitted parcels / perishables

Express freight

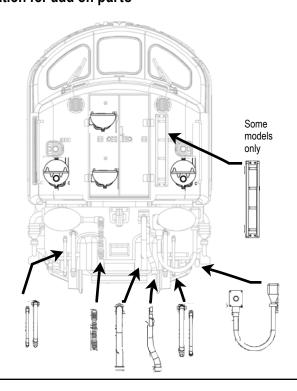
Freight, mineral, or ballast.

Light engine(s)

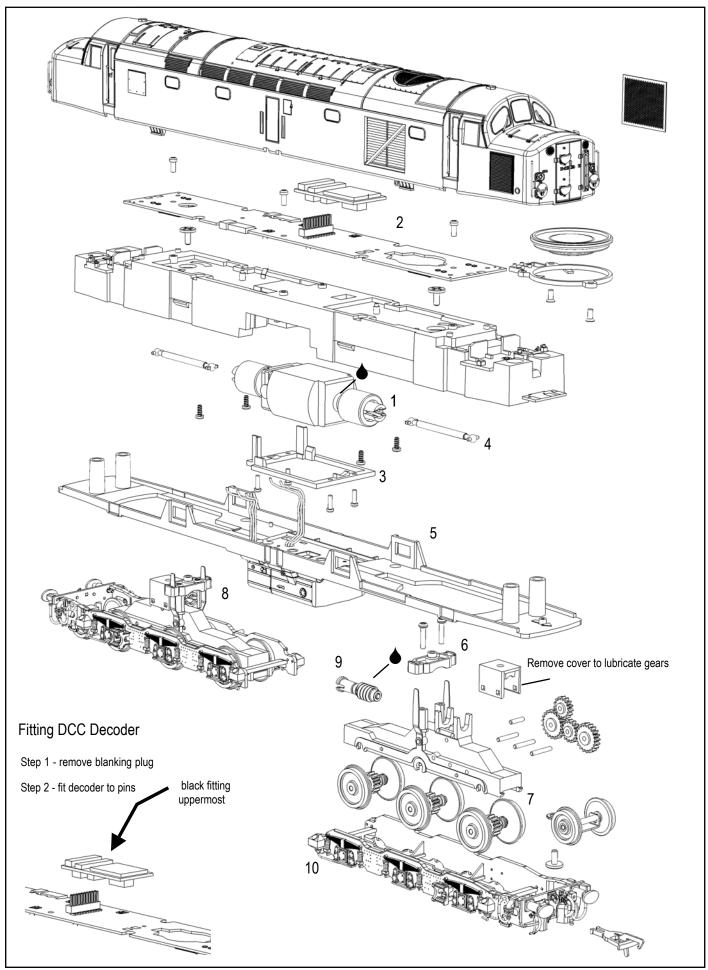
Freight, mineral or ballast stopping at intermediate stations

Ballast or freight stopping in section
Branch freight.

Location for add on parts









IMPORTANT - please read this sheet before running your locomotive

Features

- ► Complies with NMRA DCC requirements
- Automatic detection of speed steps (14, 28, 128 steps)
- ► 2-digit and 4-digit addresses
- ► Program on main or programming track
- ► Uses 4ohm speakers

Technical specification

Current carrying capacity:

Motor Output 1.1A

Function outputs 250mA each, 500mA total

Speed steps 14, 28, 128 Addresses 1-9999 Dimensions 31 x 15.5 x 6.5

CV Programming

The full CV list for the LokSound 4 is available from www.bachmann.co.uk).

Hints for using the model

Select the address of the loco (default is 03). When ready to start press F5 to turn on the fuel pump, then F1 on for engine warm start, F1 on / off for a failed start or F1 on / off /on for a cold start.

Wait for the loco to settle into an idle rhythm then press F4 brakes off and increase the throttle to speed step 9/14 if in a yard, to 15/30 if pulling a train on a small layout or 30 upwards if on a large or continuous layout. Reducing or closing the throttle just a few digits will coast or return to running sound according to throttle position. If more power is

required open up again, but be patient to allow the sounds to play.

If buffering up stop approx 2 inches in front of your train. Open the throttle slowly wait for buffer contact and press F4 on (Train brake on). Return throttle to zero, wait for 5 seconds and the press F6 coupling. Your train is now coupled and ready to depart.

At the end of your running session reduce the throttle to zero and allow the loco to idle for approx 10 seconds before pressing F13 air dryer and then F1 for shut down. Wait 5 seconds and turn off F5 and F13 when ready.

Be patient and wait for the sound to reach your throttle position before making sudden changes, drive to the sound produced by the model

Sound functions

F0	Loco lights on/off				
F1	Engine on / off (If pressed whilst on move sound will fade in / out)				
F2	Horn 1				
F3	Horn 2				
F4	Brakes on / off				
F5	Fuel pump on / off				
F6	Coupling				
F7	Cab lights				
F8	AUX 2 (no feature on this model)				
F9	Flange squeal				
F10	Guard Whistle				
F11	Notch up				
F12	Notch down				
F13	Air dryer				
F14	Fan				
Random	Fan and compressor				
Note	Starting: press F5 pump on F1 on warm start F1 on - off failed start F1 on - off - on cold start				

CV	Name		Max	Default		
1	Primary Address	1	127	3		
2	Start voltage Sets minimum speed	1	255			
3	Acceleration rate	1	255			
4	Deceleration rate	1	255			
5	Max voltage sets maximum speed	0	64			
6	Medium speed	0	64			
7	Version number		255			
8	Manufacturer ID		151			
29	Configuration (see below)			14		
63	Volume		192	128		
	Decoder reset: write a value of 8 to CV8					

	CV 29 Summary	Default				
Bit	Feature	14	Effect when bit is set to 0	Effect when bit is set to 1		Decimal value when set
0	Direction of operation	0	Normal	Reversed	0	1
1	Speed steps	1	14	28/128	0	2
2	DC Operation	1	Disabled	Enabled	0	4
3	Railcom	1	Disabled	Enabled	0	8
4	Speed curve selection	0	CVs 2,5,6	CVs 67 – 96	0	16
5	Short / long address	0	Short (CV1)	Long (CVs 17/18)	0	32
6		0				
7		0				

Add the decimal values of the bits to be set and write this to CV29

The full ESU LokSound V4 User Guide is available to download from www.bachmann.co.uk