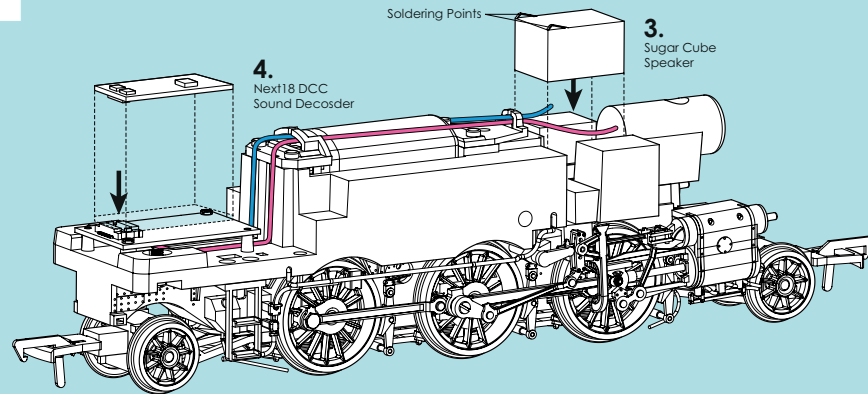


## 5. DCC Sound - Installing DCC Sound (Continued)

fig.12



**3.** Fit your Sugar Cube Speaker (no bigger than 15 x 11 x 9mm) into the space shown and solder to the corresponding '+' & '-' wires that were fitted earlier.

**4.** Push-fit the Next18 DCC Sound Decoder into the socket on the PCB board as shown.

## 6. DCC On Board Models

Your model has been factory-fitted with a **Zimo MX618 N18 DCC decoder**. The instruction manual for this decoder is available for free download from the Zimo website at [www.zimo.at](http://www.zimo.at)

## 6. Spare Parts

Selected spare parts are available from the Bachmann Europe service department, for further information and enquiries please contact the service dept. direct by email [service@bachmann-europe.co.uk](mailto:service@bachmann-europe.co.uk) or by phone **01455 841756**.

## 7. Warranty

### Consumer Guarantee

This product is guaranteed for 12 months from the date of purchase against faulty materials or workmanship. During this period it will be repaired or have parts replaced free of charge provided that:

- The product is returned to Bachmann Europe plc with evidence of purchase date in accordance with the claims procedure outlined below.
- This product has not been misused or handled carelessly.
- Repairs have not been attempted other than by our service staff.

### Claims procedure

Any claim made under this guarantee should be made directly to Bachmann Europe Plc. The claim itself should be made in a letter setting out the date and place of purchase and giving a brief explanation of the problem which has led to the claim. Enclose this letter with the product and proof of the purchase date (preferably a receipt) and send to: Bachmann Europe Plc, Moat Way, Barwell, Leicester, LE9 8EY.

**Please note: it is essential that the letter of claim reaches the above address before the last day of this Guarantee. Late claims will not be considered.**

This Guarantee applies to all goods purchased from an authorised retailer of Bachmann Europe plc within the United Kingdom of Great Britain and Northern Ireland. This Guarantee does not confer any rights other than those expressly set out above and does not cover any claims for consequential loss or damage. This Guarantee is offered as an extra benefit and does not affect your statutory rights as a consumer.

### DCC Decoders

With the addition of DCC becoming commonplace, we are finding products being forwarded for repair with DCC Decoders installed. The fragile nature of these items means that they are susceptible to damage.

**Please note:** any locomotive returned to the Service Department for attention should, if possible, have any decoder removed. If sent with a decoder fitted please reset the address to 3, service may be restricted. Bachmann Europe plc only accept liability to the value of a standard model. This also applies to body modifications/detailing.

We will not be responsible for any loss or damage to any DCC items sent to us and they are likely to be returned to the sender with no action having been taken.



# Ivatt Class 2MT Tank Locomotive Owner's Information

## Welcome

Many thanks for purchasing one of our **Bachmann Branchline Ivatt Class 2MT Tank Locomotives**. A lot of care was taken producing your model and we hope you enjoy it for many years to come.

**Please note:** This model has been designed to run on curves of **no less than 2nd Radius (438mm)**. We recommend that you don't use anything smaller as this may result in the model derailing.

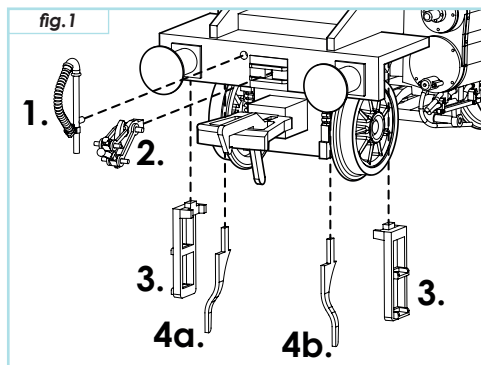
For best results don't use with Electronic Track Cleaners or Feedback Controllers.

## 1. Accessories

Although our models are highly detailed and ready to run straight from the box we also supply optional accessories to be fitted by the owner if they wish. Some of the accessories should only be fitted for static display as they may affect coupling or running quality, these parts will be labelled as such below.

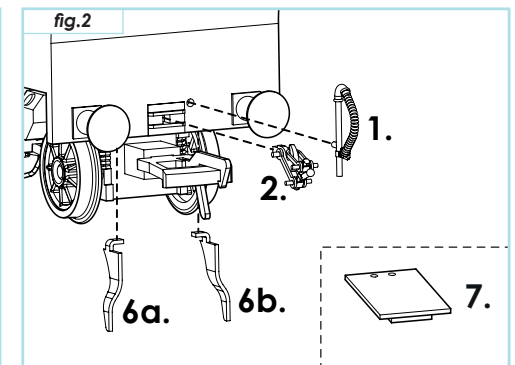
**Please note:** Cyanoacrylate (super glue) must be used for the fitting of accessories.

fig.1



- |         |                            |  |
|---------|----------------------------|--|
| 1       | <b>Vacuum pipes</b>        |  |
| 2       | <b>Screwlink coupling</b>  | - only fit if standard coupling has been removed to avoid derailing. |
| 3       | <b>Front chassis steps</b> | - use only on 3rd radius (505mm) curves or larger.                   |
| 4a & 4b | <b>Front guard irons</b>   | - use only on 3rd radius (505mm) curves or larger.                   |
| 5a & 5b | <b>Rear guard irons</b>    | - use only on 3rd radius (505mm) curves or larger.                   |
| 6       | <b>DCC Blanking Plate</b>  | - only included in DCC Fitted models.                                |

fig.2



## 2. Running-in

It is necessary that this locomotive is 'run-in' to allow the mechanism and gears to settle. This requires the model to be run without a load (wagons, coaches, etc.) for 30mins in each direction at half speed.

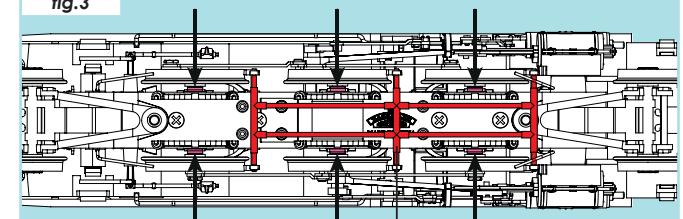
## 3. Lubrication

All Bachmann Branchline locomotives are supplied ready lubricated and can be used straight from the box. Over time your locomotive will require some additional lubrication, when will depend on the frequency of use and storage so please inspect your model on a regular basis.

If the driving wheel axles appear dry and no lubricant is visible, (where shown in **fig.3**) it would be advisable to lubricate your model.

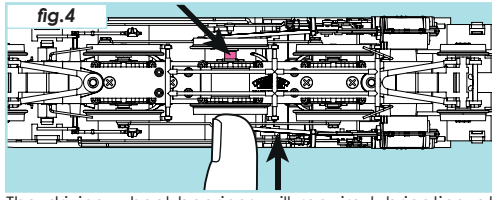
**Please note:** A plastic compatible lubricant is required. Suitable products from both the Bachmann Trains & Woodland Scenics ranges are available from your local Bachmann retailer.

fig.3



## 8. Brake Rodding Accessory

### 3. Lubrication (Continued)



The driving wheel bearings will require lubricating at both ends, to do this simply push the set of wheels to one side and apply a single drop of plastic compatible lubricant to the exposed axle. Then repeat on the other side.

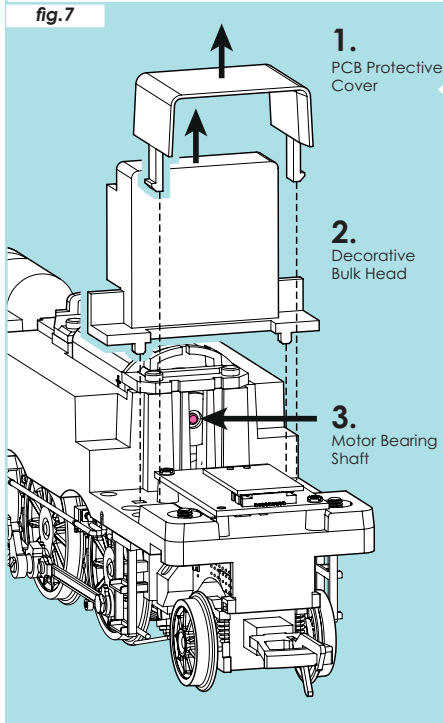
#### Motor Bearing Lubrication

The motor bearings will also require lubricating. A small amount of disassembly is required and is shown in figure 6, 7 & 8.

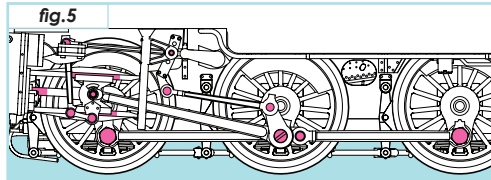
Begin by removing the body (fig.6).

If the motor bearing shaft appears dry, apply one drop of lubricant to each end of the shaft. (Shown in pink in Fig. 7 & 8)

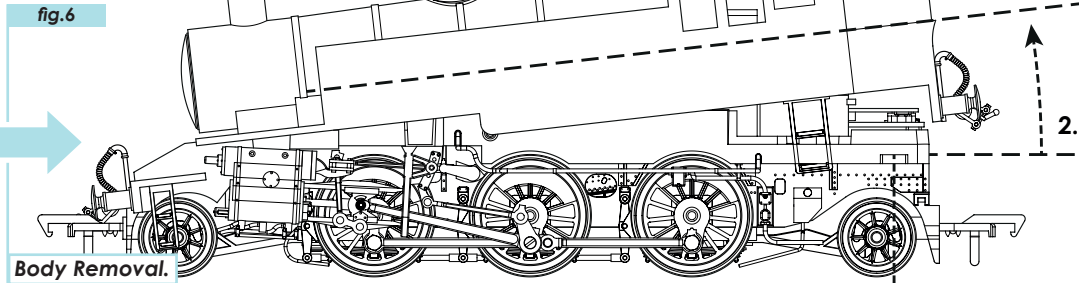
#### Rear Motor Bearing Lubrication.



1. Remove the PCB protective cover.
2. Remove the decorative bulk head of the firebox.
3. Lubricate the rear end of the motor bearing shaft.



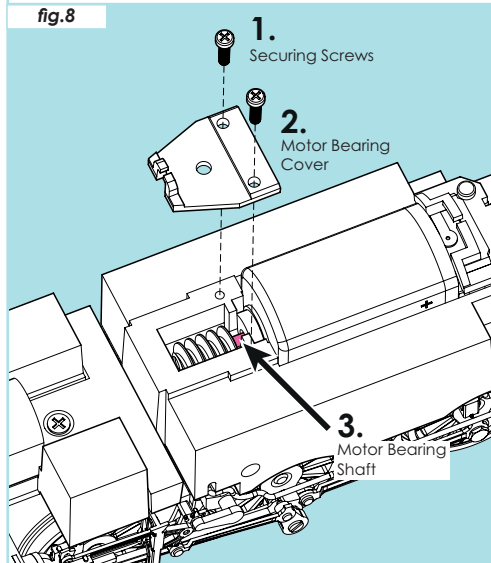
Oiling will also be required to all moving parts of the connecting rods and valve gear. Apply a single drop of oil to the areas indicated in pink above (fig.5) and the corresponding points on the other side.



#### Body Removal.

1. Unscrew the two securing screws on the underside of the chassis at the cab end of the locomotive.
2. Lift the body off from the cab end of the locomotive. The front is secured by a locating lip on the chassis that corresponds with a slot on the body.

#### Front Motor Bearing Lubrication.

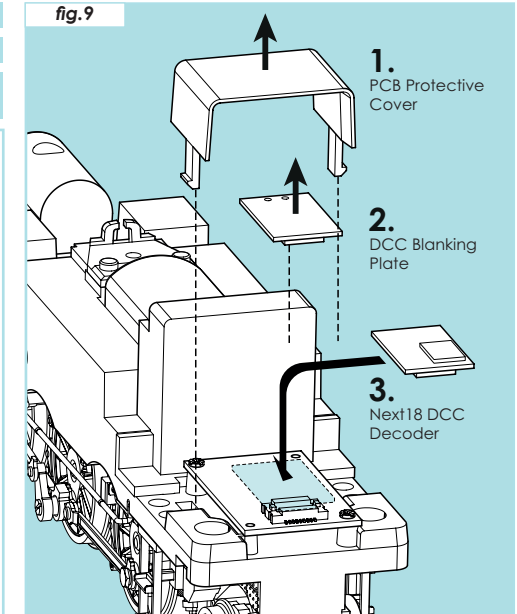


1. Remove screws.
2. Remove the motor bearing cover.
3. Lubricate the front end of the motor bearing shaft.

### 4. DCC Decoder - Fitting a Next18 DCC Decoder

Digital Command Control (DCC) allows for greater functionality and control over the locomotives on your layout: such as the simultaneous control of speed & direction of multiple locomotives and enables the use of DCC controlled track, points and other DCC Decoder fitted accessories. DCC also allows the addition of DCC Sound which brings a whole new level of realism to your model railway.

1. Remove the PCB protective cover.
2. Remove the DCC blanking plate.
3. Push fit a Next18 DCC decoder into the socket on the PCB board as shown.

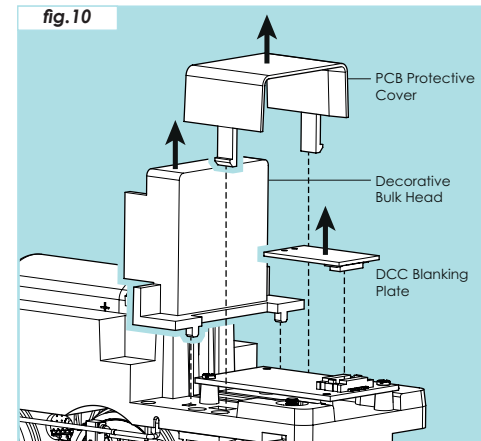


### 5. DCC Sound - Installing DCC Sound

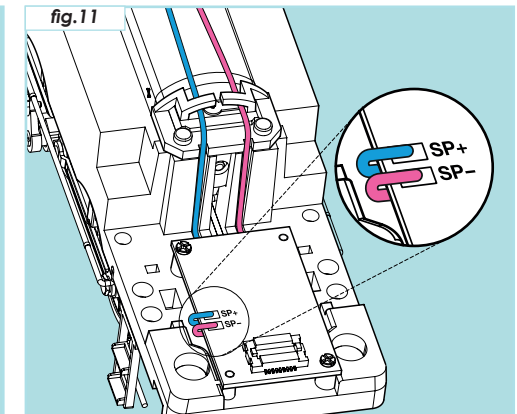
The following equipment is required for DCC Sound.

- 1 x Next18 DCC Sound Decoder (pre-programmed with the relevant sound file of your choice).
- 1 x 'Sugar Cube' Speaker no bigger than 15 x 11 x 9mm.
- 2 lengths of suitable wire to connect the speaker to the PCB Board.

**Please note:** It's recommended that the DCC Decoder and Speaker are both from the same manufacturer and the speaker specifications are compatible with the decoder. Please consult your retailer for advice.



1. Remove the PCB protective cover, DCC Blanking Plate & Decorative Bulk Head (fig.10).



2. Solder the two wires to the soldering pads on the PCB board marked 'SP+' & 'SP-' and fit into the grooves and clips provided (fig.11).