



# GWR 94xx Pannier Tank Locomotive

## Owner's Information

Many thanks for purchasing one of our **Bachmann Branchline** GWR 94xx Pannier 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 derailling.

For analogue use we recommend using a controller with a smoothed output. If you have any doubts please consult the controller manufacturer before operating this model. Do not use with Electronic Track Cleaners.

## 1. Locomotive Information

**Motor Type:** Coreless

**DCC Compatibility:** Next18 Decoder socket in Body (SOUND FITTED models come pre-fitted with Sound Decoder)

**Recommended Decoder:** Bachmann **36-567** Next18 DCC Decoder

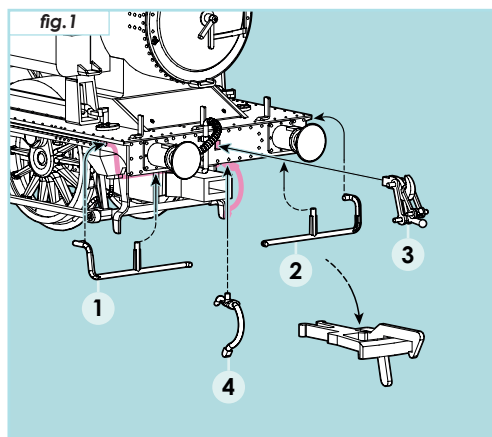
**Speaker:** Factory Fitted to all models (0.7/1 Watt / 8 Ohm)

**Electrical Pickup:** All Wheels

## 2. 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:** PVA based adhesive should be used for the fitting of accessories.



- 1 Front Steam Heat Through-Pipe
- 2 Front Vacuum Through-Pipe
- 3 Screw-link Couplings\*
- 4 Front Buffer Beam Steam Heat Pipe\*
- 5 Rear Vacuum Through-Pipe
- 6 Rear Buffer Beam Steam Heat Pipe\*
- 7 Rear Steam Heat Through-Pipe

8a & 8b Cab Doors

9 Next18 DCC Blanking Plate - Supplied with SOUND FITTED models only. Can be used to replace the Sound Decoder for use on analogue control without sound effects.

\* Only fit if Standard Coupling has been removed.

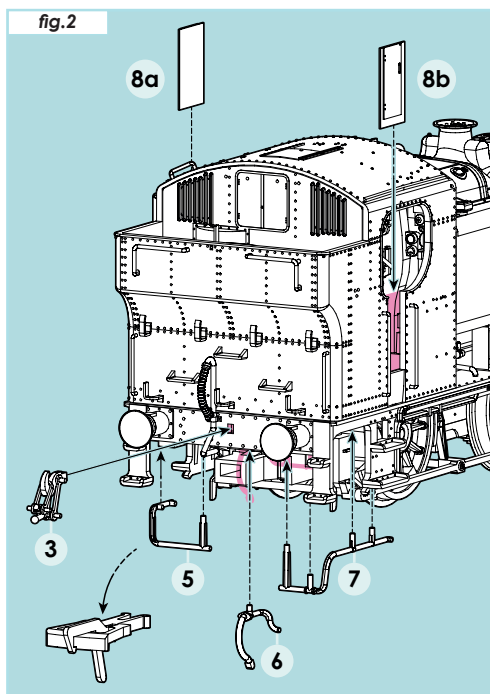
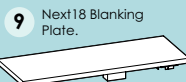
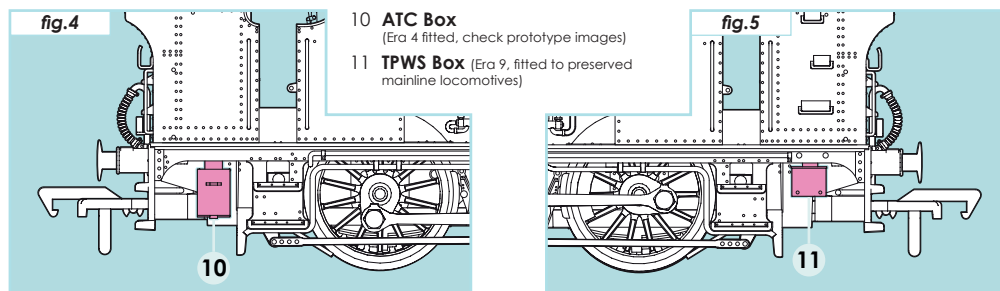


fig.3



Accessories continued overleaf...

## 2. Accessories (Continued)



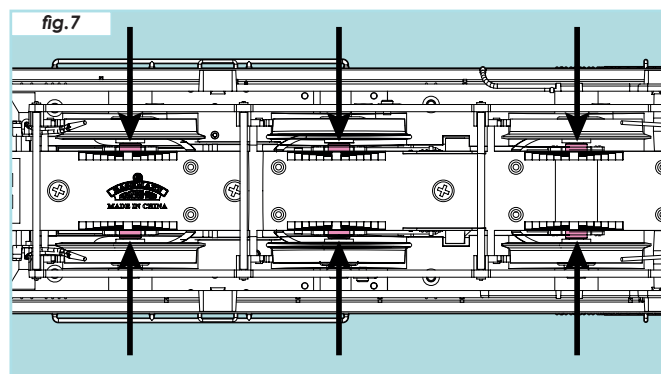
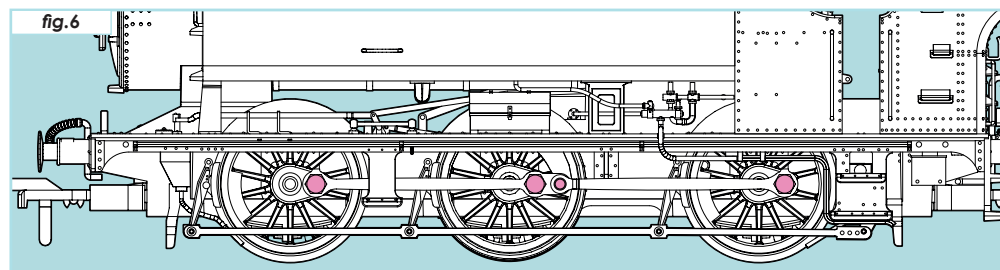
## 3. Running-in

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 30 minutes in each direction at half speed.

## 4. 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.

All moving parts of the connecting rods will occasionally need oiling. Apply a single drop of oil to the areas indicated in pink below (**fig.6**) and to the corresponding points on the other side.



If the driving wheel axles appear dry and no lubricant is visible (where shown pink in **fig.7**), it would be advisable to lubricate your model.

### Please note:

A plastic compatible lubricant is required. We recommend the use of either **Bachmann Trains E-Z Lube Light Gear Oil 99984** or **Woodland Scenics Hob-E-Lube Lite Oil WHL654**.

## 5. Retail Accessories

Selected accessories are available to purchase from your local Bachmann stockist to keep your new model in good order for years to come including:

**36-567 – Bachmann Next18 DCC Decoder**, add a DCC decoder to use your model on a DCC system such as Bachmann's Dynamis Ultima system.

**36-061 – Short Straight NEM Coupling with Pocket** (x10)

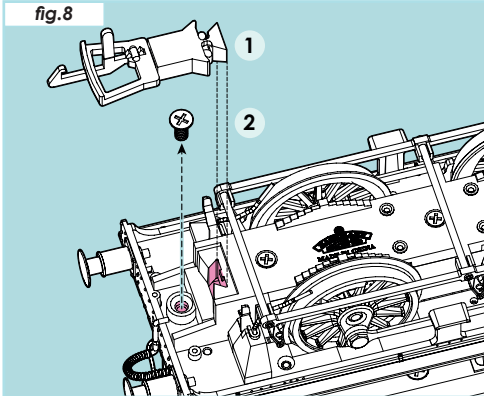
## 6. DCC Decoder & Sound Decoder Fitting - Next18

**Please Note:** SOUND FITTED models come with a DCC Decoder already fitted.

Digital Command Control (DCC) allows for greater functionality and control over the models on your layout: such as the simultaneous control of speed & direction of multiple Locomotives, enables the use of DCC controlled track, points and other DCC Decoder fitted accessories and unlocks the full potential of SOUND FITTED models bringing a whole new level of realism to your model railway.

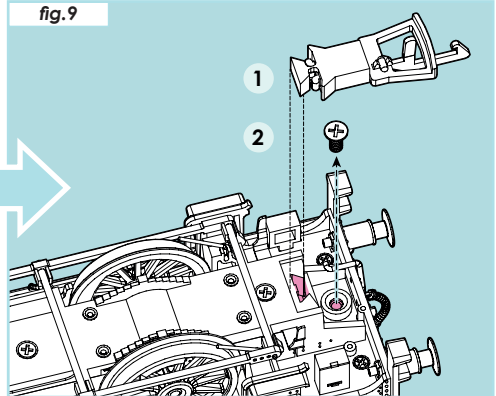
**This GWR 94xx Pannier Tank model comes with a factory fitted speaker, all that is required to bring Sound to your model is a Next18 DCC Sound Decoder pre-programmed with the sound file of your choice.**

fig.8



**1 & 2.** Remove the Standard Coupling and Body Screws (**Figs. 8 & 9**).

fig.9



**3.** Carefully remove the loco body from the Chassis (**Fig. 10**).

**4.** Remove the Next18 Decoder Blanking Plate and Push fit your Next18 DCC Decoder (**36-567**) or DCC Sound Decoder (**Fig. 11**).

fig.10

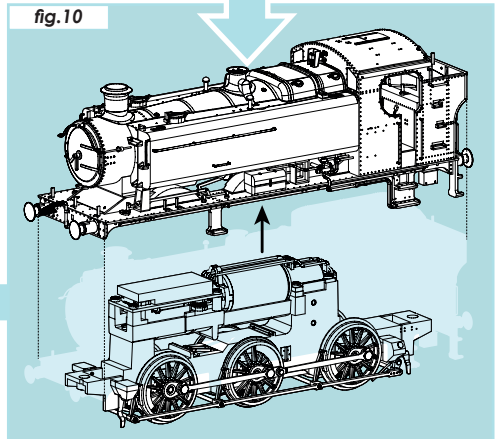
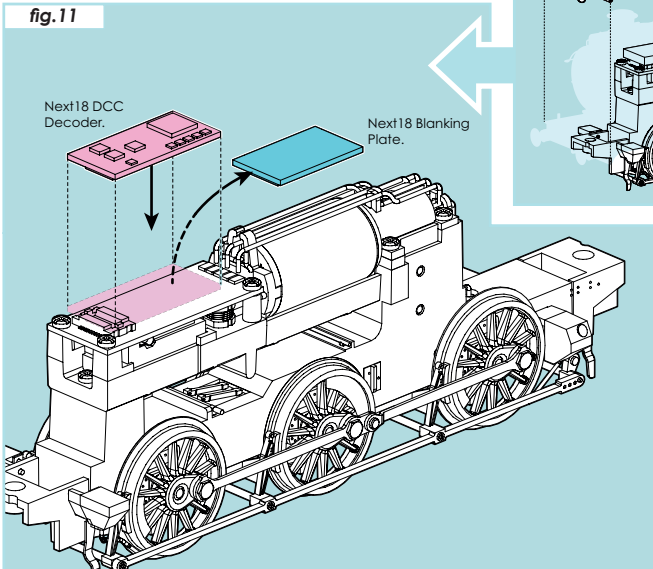


fig.11

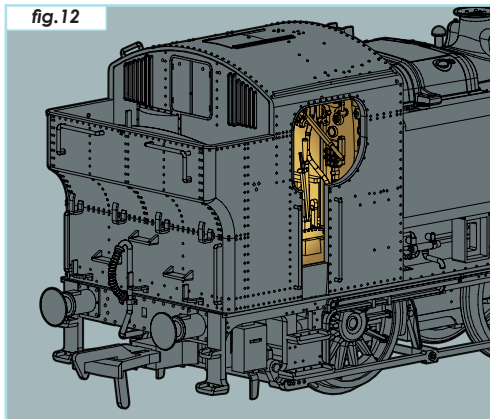


## 7. Firebox Glow & Flicker

The GWR 94xx Pannier Tank models have been factory fitted with two Firebox LEDs, one red and one yellow. On DC (analogue) operation with the factory fitted blanking plug the Red LED will be illuminated at a constant glow when power is applied (brightness will depend on controller setting).

For use on DCC we recommend fitting our **36-567 Next18 DCC Decoder**, with this decoder fitted both LEDs can be used. The Red LED is controlled by Function Output 1 using the F1 key and the Yellow LED is controlled by Function Output 2 using the F2 key. When used on DCC the LEDs can also be configured to flicker.

fig.12



The default settings (of 0) for the two CVs that control these Functions illuminate the LEDs with a constant brightness. To simulate the effect of the glow/flicker given off by the fire, the value of the CVs for Function 1 & 2 (CVs 127 & 128 respectively) can be altered to give different lighting effects. **On SOUND FITTED models these lighting features are already configured for realistic operation.**

We suggest setting CV127 to a value of 8 would give a random flicker effect to the Red LED (Function 1), setting CV128 to a value of 8 would give a random flicker effect to the Yellow LED (Function 2).

Other effects are available, please refer to page 32, section 3.22 of ZIMO's 'Small' MX decoder manual available from [www.zimo.at](http://www.zimo.at)

## 8. Spare Parts

Selected spare parts are available from the Bachmann Europe Service Department. For further information and enquiries please contact the Service Department directly by email on [service@bachmann-europe.co.uk](mailto:service@bachmann-europe.co.uk) or by phone **01455 245575**.

## 9. Warranty

This product has a Warranty for 12 months from the date of purchase against faulty materials or workmanship subject to the following conditions. During this period such defects that occur will be repaired or defective parts replaced free of charge.

1. This Warranty applies only if the item was purchased from an authorised retailer of Bachmann Europe PLC ('Bachmann') within the United Kingdom, European Union & European Economic Area. This Warranty does not confer any rights other than those expressly set out above and does not cover any claims for consequential loss or damage. The Warranty is offered as an additional benefit and does not affect your statutory rights as a consumer.

2. For claims under this Warranty, in the first instance the product must be returned to the retailer with evidence of the purchase date in the form of retailer receipt/invoice accompanied by a letter or Service Request form setting out the date and place of purchase, giving a brief explanation of the problem that has led to the claim. It is essential that the claim reach the retailer on or before the last day of this Warranty period. Late claims will not be considered.

3. This Warranty is only available to the original retail purchaser of this product and is non-transferable.

4. The Warranty does not extend to cover damage resulting from misuse or careless handling, accidental damage, wear and tear, or use on a voltage supply other than that stamped on the product.

5. The Warranty may be considered void if repairs have been attempted other than by Bachmann staff.

6. The Warranty is on the original product in its entirety and does not extend to individual components removed from the product. In respect of train sets the warranty applies to motorized units and controllers only.

7. If Bachmann chooses to replace a product it will be with the nearest appropriate model of its choice.

8. Bachmann reserves the right to decline service to any model that has been fitted with a decoder after manufacture.

9. Bachmann will not be held responsible for damage to or loss of an after market decoder fitted to a model submitted for service under the Warranty.

10. The fitting of a Bachmann decoder with a current Warranty shall not be deemed to change the position regarding a product that is otherwise outside its own Warranty. It may be necessary to change decoder settings during service.

11. Bachmann's liability under this Warranty will in no case exceed the price paid for the product as originally manufactured.



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