

## 1. Accessories & Features (Continued)

**5. Valance Insert** - Our model comes fitted with NEM couplings, to allow their use an aperture has been made in the locomotive's valance. If you wish to fill the aperture with the inserts supplied in the accessory pack please follow the instructions below.

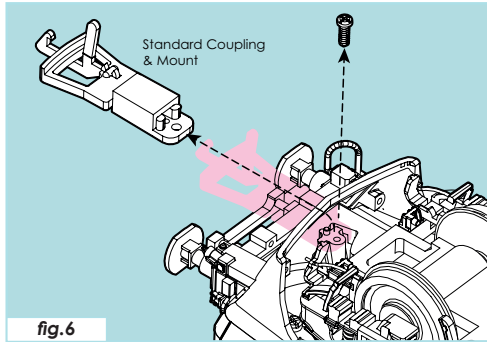


fig.6

1. First detach the standard coupling and mount by removing the screw located under the cab just inside the valance. (fig.6)

2. Position the insert from inside the valance and fix in place using the two screws provided (fig.7).

**Please note:** You will need to rotate the bogie to gain access to the screw-head with a screwdriver.

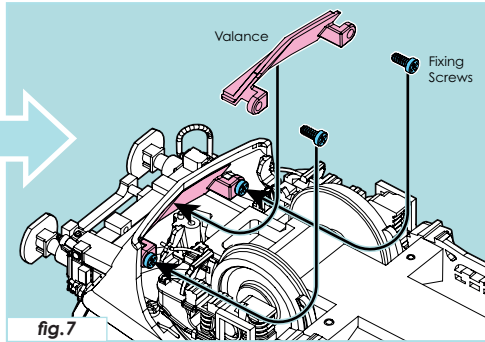


fig.7

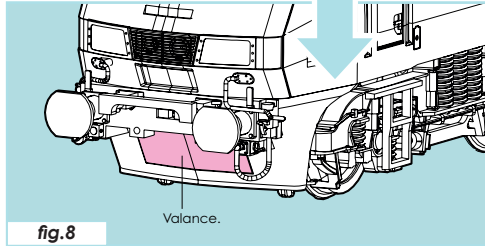


fig.8

## Directional Lights - On/Off and Day & Night Mode.

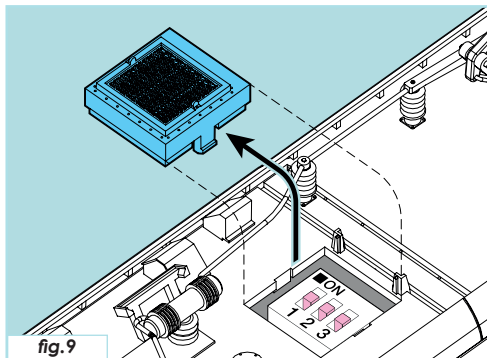


fig.9

If you wish to turn off the directional lights at one end of the locomotive or change the directional lights to day or night mode, you can do so with the switches hidden beneath the roof-mounted air-vent detail box closest to the pantograph. This is held in place with two small clips so it can be removed easily without tools.

Switch & Function	Position	Effect
1 Day/Night Mode	On	Day
	Off	Night
2 Directional Lights (Non-Pantograph End)	On	Lights On
	Off	Lights Off
3 Directional Lights (Pantograph End)	On	Lights On
	Off	Lights Off

## Pantograph Clips.

From the box the pantograph will be in the lowered position, there are two securing clips that hold it in place. When released it will spring into the upright position.

**When using DCC, please ensure that it is unclipped before use.**

Ensure that the pantograph is held in place with these securing clips before being put back into the box.

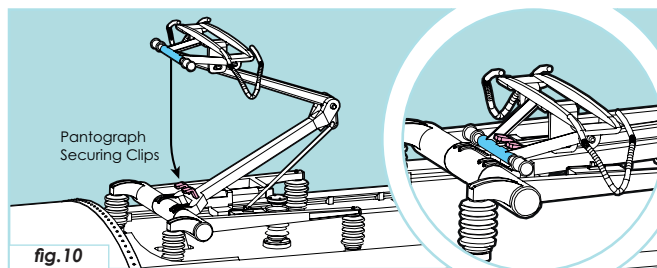


fig.10

## 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 30 minutes in each direction at half speed.

## 3. Lubrication

All Bachmann Branchline models are supplied ready-lubricated and can be used straight from the box. Over time your model 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, the driving wheel bearings will require lubricating. 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.

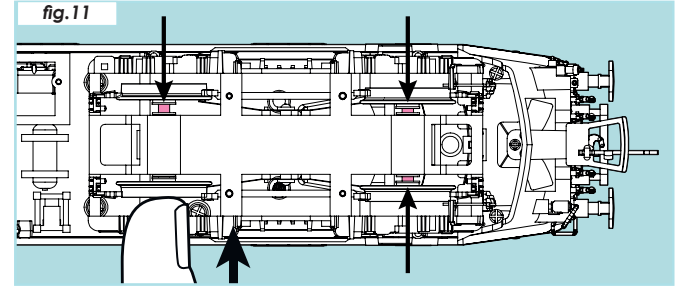


fig.11

**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.

## 4. DCC Decoder & Sound Decoder Fitting

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 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.

**This Class 90 model comes with a factory fitted speaker, all that is required to bring Sound to your model is a 21 Pin DCC Sound Decoder pre-programmed with the sound file of your choice.**

**Please note:** The working pantograph is driven by a Servo Motor. A Decoder that is capable of driving Servo Motors must be used.

Damage to the pantograph servo motor will occur if a standard Decoder is used.

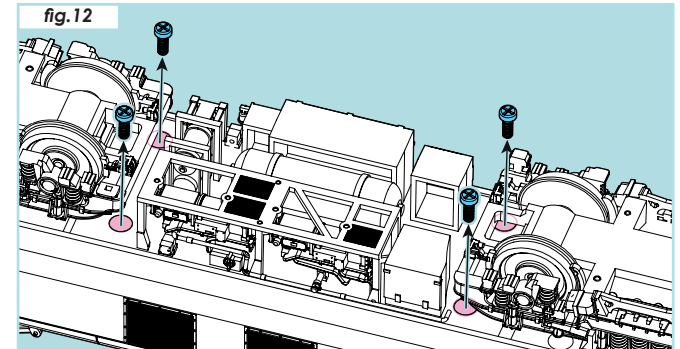


fig.12

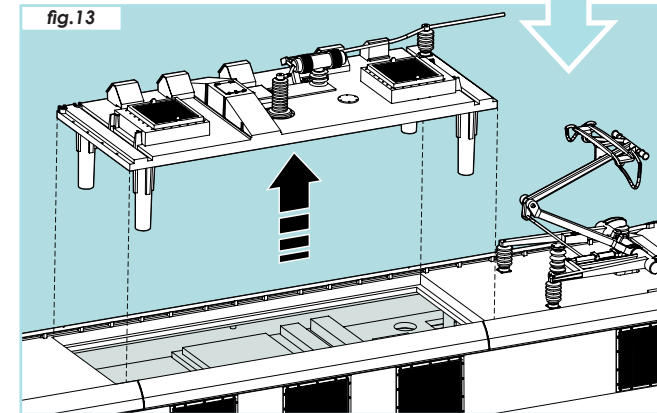


fig.13

1. Remove the four screws from the underside of the chassis, these are located under the inner corners of the bogies. The bogies will need to be rotated to allow access to the screws (fig.12).

2. Turn the locomotive onto its wheels and remove the roof panel, take care as the moulded details are fragile (fig.13)