



Railways

## PNR 1T-B - Chair for 5/8" x 5/8" Flat Bottom Rail Assembly Instructions



### **This instruction sheet is applicable for the following components:**

- PNR-9K - 3 1/2" Gauge Sleeper
- PNR-8A - 5" True Scale Sleeper
- PNR-1T-A - 5" & 3 1/2" Gauge Sleeper
- PNR-1T-C - 5" Gauge Sleeper
- PNR-1T-H - 7 1/4" Standard Scale Sleeper
- PNR-1T-G - 7 1/4" & 5" Standard Scale Sleeper
- PNR-1T-B - Chair with Spigot to suit 5/8" x 5/8" Flat Bottom Rail.

The following instructions apply to 7 1/4", or 184.15mm gauge, 5" or 127mm gauge, 3 1/2" or 88.9mm gauge and mixed gauge track work. For the sake of clarity only one gauge is quoted in the example.

### **Spacing**

Slightly larger than scale, the sleeper system has many prototypical features, which enhance its overall look, the spacing rather depends on many factors, such as rail choice, axle loadings, amount of use etc. As a guide the sleepers can be laid at the following spacing's when using 5/8" x 5/8" rail.

- 3 1/2" Gauge - 70mm centres
- 5" True Scale - 80mm centres
- 5" Gauge - 100mm centres
- 7 1/4" Gauge - 166mm centres

### **Rail**

It should be noted that the aluminium rail head, extruded or rolled section can be offset to the foot, as this is unavoidable in the manufacturing process it is advisable to trial assemble a short length of track and assess which way round the rail should be used.

### **Track Assembly**

- Firstly, please note the direction of the arrowheads on the back of the spacer.
- The easiest way to assemble the track panels is to thread the chairs onto the rail and to then invert the rail and place the spigoted spacers into the chairs in the required way round.
- **Automatic Gauging System** - For standard rail gauge place the chairs on the sleepers with the arrows on the base of the chair pointing in, as shown below:

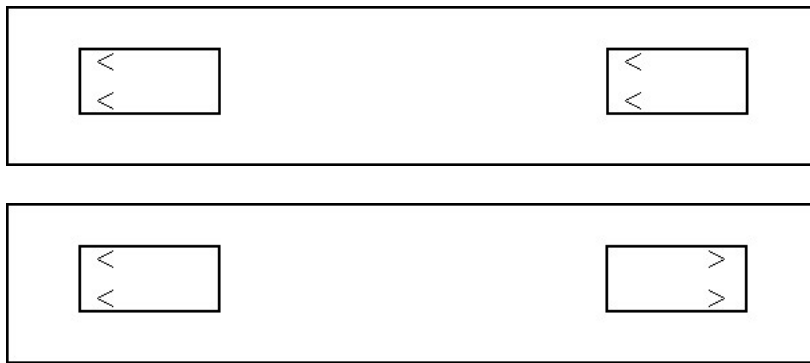




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- To achieve gauge widening on corners, either turn one chair 180 degrees to achieve a 1/32<sup>nd</sup> widening or both chairs 180 degrees to achieve a 1/16<sup>th</sup> widening as shown below.



- The rail can then be left upside down and the sleepers located onto the spigots and the whole panel turned over by placing a suitable piece of wood onto the sleepers.
- Screw the chairs to the sleepers and lightly tighten. **It is important not to over tighten as this could result in the thread being stripped.**

### **Sleepers - Frequently Asked Questions**

#### **What happens if you drop the fire onto the sleepers?**

As with wooden sleepers the fire should only be dropped in the appropriate place. However should hot coals drop on the track they will mark but they will not burn readily.

#### **Life Expectancy**

The sleeper system has been manufactured from a high grade virgin polypropylene. The properties of which can be guaranteed. Polypropylene has a very high stiffness with high impact strength, therefore incredibly strong. It is UV, rot and frost resistant and it virtually unaffected by moisture. Treated in an appropriate manner the sleepers should give a long trouble free service, alleviating a number of the problems associated with wood.

#### **Safety**

While all reasonable steps have been taken to produce a product for use on miniature railway permanent way, it is the responsibility of the end user to ensure that the track components mentioned above have been assembled properly and have been laid on a stable and secure base, and are only used for the purpose for which they are intended. Frequent inspection of the track components for defects, loose fasteners, stability etc should be carried out by the user.