

### PNR 7Y - Clip Fit Chair for 5/8" x 5/8" Flat Bottom Rail Assembly Instructions



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

- PNR-9K - 3½" Gauge Sleeper
- PNR-8A - 5" True Scale Sleeper
- PNR-1T-A - 5" & 3½" Gauge Sleeper
- PNR-1T-C - 5" Gauge Sleeper
- PNR-1T-H - 7¼" Standard Scale Sleeper
- PNR-1T-G - 7¼" & 5" Standard Scale Sleeper
- PNR-7Y - Clip Fit Chair to suit 5/8" x 5/8" Rail

The following instructions apply to 7¼", or 184.15mm gauge, 5" or 127mm gauge, 3½" or 88.9mm gauge and mixed gauge track work.

#### **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.

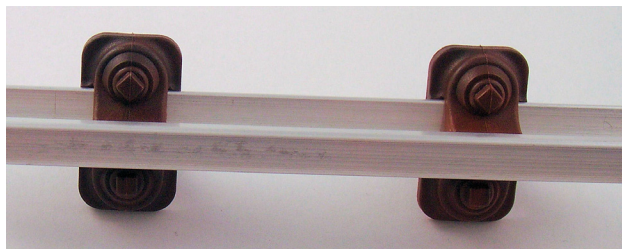
- 3½" Gauge - 70mm centres
- 5" True Scale - 80mm centres
- 5" Gauge - 100mm centres
- 7¼" Gauge - 166mm centres

#### **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**

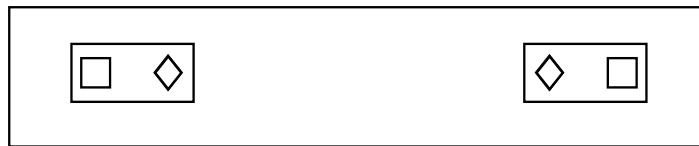
- The easiest way to assemble a track panel is to slide the chairs onto the first rail. To make this easier remove any burrs from the ends of the rails and lightly chamfer all round the edge.
- The chairs have been designed to allow for gauge widening, therefore prior to sliding the required number of chairs onto the rails, please note the placement of the moulded bolt heads.



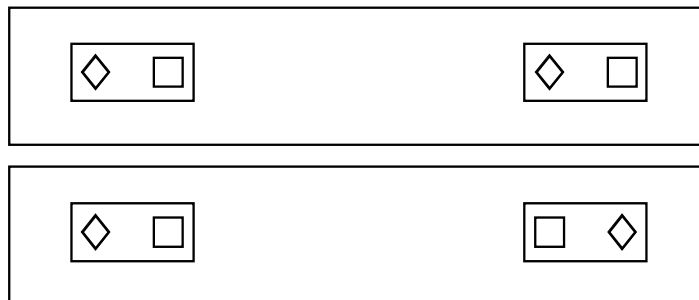
#### **Automatic Gauging**

- For standard rail gauge place the chairs on the rails with the diamond bolt heads all facing the same way, as shown, so that when the rails are placed on the sleepers the gauge is set as required.

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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:



- Space the chairs out to the required spacing, place the sleepers on a flat surface also spaced at the required spacing. Place the rail over the sleepers, ensuring the correct orientation of the chairs for the gauge required. Press down firmly and the chair spigot will locate firmly into the sleeper. It is easier to do one side at a time.
- Once assembled, any adjustments can be made by sliding the chair along the rail. Should you notice that you have made a mistake with the orientation of a chair or need to lift the track and remove the chairs, a tool is provided with the track kits or they are available to purchase separately.

To remove a chair, firstly turn the track panel over and lay it on some spacer planks so that the track panel is raised off the working surface. Place the tool over the chair spigot and push down on the rim of the outer piece, and then give a sharp tap down on the plunger with a small mallet, this will release the chair.

When removing the chairs it is recommended that safety glasses are worn.

#### 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.