

Willamette Cascade Model Railroad Club HO scale T-Trak standards

T-Trak is a tabletop module system. Modules are designed to snap together on top of a standard banquet table. Track wiring is simple to allow for quick connection to a buss wire for power and Digital Cab Control. Scenery is up to the builder, but the more 3 dimensional and creative scenery, the more viewers will be drawn in.

Section A – Construction

- 1 Module construction will consist of 9mm thick Baltic Birch Plywood for the top, the sides, and the front/back pieces. The front/back pieces will be the same length as the top of the module. The sides will be 18 mm shorter than the depth of the module.
- 2 An alignment jig is heavily suggested to keep the angles square.
- 3 The frame corners will contain a 2-inch length 2X2 mounted vertically that will both reinforce the corner and provide support for the foot. Using the alignment jig, the side will be connected to the front/back piece with wood glue and with a nail gun using 18-gauge brads between $\frac{3}{4}$ inch and 1 $\frac{1}{4}$ inch in length. The leg will be attached in the corner with wood glue and a nail gun using 18-gauge brads between 1 and 1 $\frac{3}{4}$ inch length.
- 4 The top will be applied to the frame with wood glue and 18-gauge brads between 1 and 1 $\frac{3}{4}$ inch length.
- 5 Single modules do not require reinforcement, but double, triple, corner, and junction modules do. Any other large module will also require reinforcement to keep the top from flexing under the weight of trains or scenery. Reinforcement should be a length of 9mm Baltic Birch plywood the same length as the side but not as deep. This will allow for wires to run underneath the module.

- 6 A second corner jig will be used with a drill press to drill a centered (19/64ths) hole through each leg and into the module top.
- 7 An approximate 1-inch hole will be drilled in the back of the module for wiring.
- 8 The front will be painted flat black.

Section B – Dimensions

	Top	Sides	Front/Back
Single	490mm x 610mm	472mm x 70mm	490mm x 70mm
Double	982mm x 610mm	964mm x 70mm	982mm x 70mm
Triple	1474mm x 610 mm	1456mm 70mm	1474mm x 70mm
Corner	694mm x 694mm	676mm x 70mm	694mm x 70mm
Junction			
Inside Corner			

Section C – Track

- 1 Track will be KATO UniTrack at the connection point. Transition to flex track or to turnouts is acceptable.
- 2 Turnouts will be PECO. Keep switch points and controls clear of ballast and glue.
- 3 The first track centerline will be 83 mm from the leading edge of the module.
- 4 Spacing between tracks will be 60mm from centerline to centerline. (That also works as left rail to left rail or, right rail to right rail.)

Section D – Wiring

- 1 Track wires will be Blue/White and Blue/White.

- 2 A set of KATO wired Uni-Joiners are recommended for each track. But soldered connections are expected to be of very good quality.
- 3 A European style (nylon tunnel) terminal block will be mounted to the underside with each track wire going to a separate connection on the primary side and a pigtail assemble will be attached on the opposite side of the terminal block directly across from the primary (red line). A blue and white jumper from the secondary (yellow line) track to the Blue /White pigtail on the secondary side will also be connected.
- 4 The module will be connected to the buss with blue and white Power Pole connectors.
- 5 If module has accessories, then a twelve volt buss will be available via power pole connectors.

Section E – Scenery

- 1 Following the introduction of the T-Trak layout all modules will have scenery.
- 2 Scenery may be elaborate or simple.
- 3 Buildings with lighting are encouraged.
- 4 A 12-volt buss system will be used for accessories. If using lower voltage (5 Volt) system for lights, then either a converter or other suitable power supply must be provided.

Section F – future