# RIVER PASS HO SCALE LAYOUT KIT 51184



# **INSTRUCTION BOOKLET**



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# Introduction

The Woodland Scenics River Pass Layout Kit has all the materials to build a 4x8-foot HO scale base and terrain for any layout, complete with Inclines, Risers, Foam Sheets, Track-Bed, Ballast for tunnel areas, Portals, Culverts, and Plaster Cloth. To make assembly as easy as possible, the track plan has been printed on the base, and the Profile Boards are printed with the contours.

Before you begin, you should make sure that you have the common household items, which are necessary for building the kit (listed under Additional Items). We also recommend purchasing a Woodland Scenics Low Temp Foam Glue Gun (ST1445) and Glue Sticks (ST1446). Another tool that can make building the River Pass Layout Kit easier, is the Woodland Scenics Hot Wire Foam Cutter (ST1435) for cutting and shaping the foam.

Woodland Scenics Systems are designed to give plenty of room for error, and modelers can always go back and fix a problem later.

The Risers and Inclines allow for elevation of the track above the base of the layout and also allow for ease of adding ditches, creeks and lowlying areas without cutting into the base. Inclines also add grades to your layout, so that your train may climb and descend hills. With our Inclines, you have no complicated calculations to make.

Remember, as you cut the foam Profile Boards and Foam Sheets, it is important to save all scrap foam pieces until you are done with the project, so you will make efficient use of the scraps to assemble your layout.

We recommend reading through each section as you come to it before you begin the steps so you will understand the sequence. We have included informative illustrations to help you see each step as you begin building the layout.

# Kit Contents

Scenic Cement	DZ.
Sprayhead	. 1
Foam Pad	. 1
Random Stone Culverts	. 8
Cut Stone Single Portals (1 two-pc. custom)	. 4
Foam Tack Glue 16 fl. d	Σ.
Base Paint 12 fl. c	)Z.
Black Tunnel Paint 2 fl. c	DZ.
Black Foam Pencil	. 1
Black Construction Paper (4 1/2" x 7 3/4")	. 1

\*Product of US Gypsum

Track

\*\*Patent US-6164555, 5839657, 6089466; GER-P69925603.8-08, UK-1102897



Quantity

We used Atlas River Pass Track Pack #578 to build this kit, but you can use other brands or types of track if you prefer. All types of track have their advantages depending on your requirements and experience. For track requirements, refer to the list on the back of these instructions. Note: When assembling track it is important to remember that once the Risers are in place the track does not have to be centered exactly with the Risers. Just make sure the track is correctly assembled and the train functions properly.

Woodland Scenics offers two different kinds of adhesives for SubTerrain products. Each has advantages for different jobs. General instructions for using both of these products appear below. *These instructions are written for, and Woodland Scenics strongly recommends, using the Low Temp Foam Glue Gun to complete the kit. If you decided to use the Foam Tack Glue, read this section and refer back to it as you are gluing the components together.* You can find the Low Temp Foam Glue Gun and the Hot Wire Foam Cutter at your favorite hobby shop or on line at www.woodlandscenics.com.

#### Foam Tack Glue (ST1444)

Description

3% Incline\*\* pieces, 24" long

4% Incline\*\* pieces, 24" long

 Profile Boards, 8" x 24" (printed)
 11

 Profile Board Connectors
 5

 Printed Foam Base Panels, 2' x 4'
 4

 1/4" Foam Sheets
 7

 1/2" Foam Sheets
 5

 1" Riser\*\* pieces, 24" long
 4

 2" Riser\*\* pieces, 24" long
 21

3 - 0" to 1", 1<sup>'</sup> - 1" to 2", 1 - 2" to 3"......5 Track-Bed\*\* Roll, 24' long ......2

 Plaster Cloth Rolls, 20 sq. ft.
 6

 2" Foam Nails.
 75

Foam Tack Glue is a specially formulated glue that is safe and easy to use with foam. Used properly you can use it to assemble this entire kit. Foam Tack Glue is especially useful when gluing together thin or narrow pieces of foam. However, your work must remain pinned down with Foam Nails until the Foam Tack Glue dries (about 12

hours). Foam Tack Glue must be spread evenly over the surfaces being glued together, so you will have to unpin Risers, Inclines and other components in order to apply the glue. If using Foam Tack Glue to secure the foam, follow these steps:

- a. Pin foam components to be glued in place to ensure position. Remove them individually to apply glue.
- b. Spread a thin layer of Foam Tack Glue on contact surface of foam and

area where it will be placed. c. Replace component and pin it firmly in place. Repeat these steps for the entire layout.

#### Woodland Scenics Low Temp Foam Glue Gun (ST1445) and Glue Sticks (ST1446)

The Low Temp Foam Glue Gun and Glue Sticks will not melt or damage foam components. Glue bonds almost instantly

and is inexpensive to use. We recommend this product for gluing down Risers, Profile Boards and Foam Sheets. It sets much quicker than Foam Tack Glue and you will not have to disassemble your work to use



it. However, it can cause lumps if used



#### underneath thin materials like Incline Starters or Track-Bed. To use the Low Temp Foam Glue Gun and Glue, merely run a continuous bead at the seam of the materials you are bonding. **Important: Do not use a high temperature glue gun on this kit. It can damage the foam components.**

#### Hot Wire Foam Cutter (ST1435)

The Woodland Scenics Hot Wire Foam Cutter was designed for use with Woodland Scenics patented foam components. It is the quickest, easiest way to cut foam. An accessory you can buy, called the Bow and Guide (ST1437), makes the Hot Wire Foam Cutter even more versatile. Replacement Nichrome wire is also Bow and available. Guide

# Layout Overview ·





Cut and install printed Profile Boards. Cut Foam Sheets for tunnel roofs and to form flat areas for buildings.

3.



Install Risers wherever track will be laid. This raises the track level to the height of the Risers, causing surrounding areas to be lower. You can guickly and easily make creeks and other low-lying areas without cutting into the layout base. 2" Riser Use flexible Inclines to easily change track elevations on curves or straights. The SubTerrain System's pre-cut Inclines (with 2%, 3% or 4% grade) remove the guesswork and complicated calculations. 4% Incline Set Install interlocking Profile 8" x 24" Boards with matching Profile Board Connectors to make a sturdy layout perimeter that can easily be cut with the Hot Wire Foam Cutter or a Foam Knife to conform to any 3" x 8 profile desired. Connector Cut Foam Sheets to enclose tunnels, create interior terrain profiles and form level, elevated areas for buildings and towns. Form terrain with newspaper wads and Foam Sheets cover with Plaster Cloth that has been dipped in water. The Plaster Cloth will dry to a hard shell without adding any plaster. Plaster Cloth Install Track-Bed for a quieter, smoother operation. Track-Bed is easy to use. To attach, tack or glue down. Track-Bed is flexible, requires no soaking, is compatible with cork and won't dry out or crumble. Track-Bed



### Begin Layout Assembly

#### **Items Needed**

- 4 2' x 4' printed foam base panels
- · Masking tape
- Foam Nails
- · Large piece of cardboard
- Low Temp Foam Glue Gun, Low Temp Foam Glue Sticks, or Foam Tack Glue
- Track

#### **Assemble Base Panels**

- A. A track plan is printed on the four base panels. Lay them in the correct formation, then turn them upside-down.
- B. Use masking tape on the backside to temporarily connect them (Fig. 1a), then flip them right-side-up.
- C. Lift under the masking tape to open the seams and quickly apply glue (Fig. 1).
- D. Close seams and pin together with Foam Nails (Fig. 2), wiping off excess glue.

#### **Test Fit Track**

- A. Using the Atlas Track Pack (page 3), assemble track according to track assembly instructions or track plan printed on base (Fig. 3). Check to make sure you have all the pieces of track and that they fit on the track plan. Use small strips of masking tape to hold track segments together and to identify ends for easy reassembly.
- B. Remove track segments in large sections and store.

*Tip: Store sections of assembled track on top of a large sheet of cardboard (approx. 2' x 3') to make them easier to move. We recommend marking each end of the track segments for easy reassembling (Fig. 3a).* 







## Install Risers and Inclines



#### **Install First Tier Risers**

Position 2" Risers, centering over printed track plan. Pin all pieces in place with Foam Nails.

- A. Begin placing 2" Risers at OVAL #1 Starting Point A (Fig. 4). Pinning in place as you go, then glue (Fig. 6).
- B. Continue placing the 2" Risers beginning at OVAL #2 Starting Point B. Go to OVAL #3 Starting Point C. Pinning in place as you go, then glue.
- C. Trim to length, if necessary (Fig. 5).
- D. Cut foam pieces from 1/4" Foam Sheet to fit the two small triangular areas where Risers converge as indicated (Fig. 7). Glue in place.



#### **Install Second Tier Inclines**

- A. Measuring from the low end of the 3 3/4" 4 1/2" Incline, mark an 8" length and cut. The high end of this 8" piece should be 4" (Fig. 8). Repeat on the other 3 3/4" 4 1/2" Incline. Place and pin one of the 8" Incline pieces at Starting Point D and the other at Starting Point E. The 4" end should be placed even with the end of the 2" Riser (Fig. 9).
- C. Place and pin the 3 3/4" end of a 3 3/4" -3" Incline at the end of the 3 3/4" end of the 8" Incline directly behind **Point D**.
- Fig. 8 D. Working clockwise, place and pin a 3" - 2 1/4" Incline next followed by 2 1/4" - 1 1/2" Incline, 1 1/2" - 3/4" Incline, and ending with 3/4" - 0" Incline (Fig. 10). E. Place and pin the 3 3/4" end of a 3 3/4" -3" Incline at the end of the Fig. 9 3 3/4" end of the 8" Incline directly behind Point E. Starting 3¾ F. Working counter-clockwise, place Point E (4" End) and pin a 3" - 2" Incline next followed by 2" - 1" Incline, and ending with 1" - 0" Incline (Fig. 11). Starting G. Glue and let dry. Remove Foam Point D Nails (4" End) 3/4" - 0" Fig. 10 Starting Point D 1 1/2" - 3/4" 3 3/4" - 3" 2 1/4" - 1 1/2" 3" - 2 1/4" Fig. 11 Starting Point E 3 3/4" - 3" - 0 3" - 2 2" - 1



#### **Plaster Cloth Inside Tunnel Areas**

Cut several 4" x 8" pieces of Plaster Cloth.

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- A. Holding Plaster Cloth pieces by corners, dip Plaster Cloth in water (Fig. 13) and place on Riser, bumpy-side-up (Fig. 14), starting approximately 8" outside Tunnel Portal placement ① position as shown on base (Fig. 12) and work clockwise past Portal placement ④ approximately 8". Butt ends of pieces. Apply from 8" outside Tunnel Portal placement ② clockwise to meet Plaster Clothed area on Risers and from 8" outside Tunnel Portal placement ③ (Fig. 12).
- B. Plaster Cloth overlaps Riser sides by 1/2" 1" (Fig. 14). Smooth out wrinkles by rubbing Plaster Cloth with fingers (Fig. 15). Let Plaster Cloth dry.

#### Test Fit Track and Lay Track-Bed Inside Tunnel Areas

- A. Cut a 1/2" thick Foam Sheet into three 4" wide x 24" long sections (Fig. 16). These sections will be used for permanent construction later.
- B. To make the temporary upper tier support, pin the #1, #2, #3, #4, #5 and #12 Profile Boards in place temporarily. Fit two of the 1/2" x 4" x 24" track supports (which you cut in Step A) lengthwise into the sixth groove (counting from the bottom, Fig. 18a) of the two temporarily placed Profile Boards #2 and #3 (Fig. 18). Use Profile Board Connectors to temporarily hold the upper tier track area as illustrated (Fig. 18). Pin in place.
- C. Place entire track on layout, adjust for correct fit and placement and pin with Foam Nails.
- D. Carefully trace around track on Plaster Cloth with Foam Pencil. Mark bridge location on Profile Boards for later reference (Fig. 18).
- E. Remove upper tier track and temporary supports, and all track inside tunnel areas in several large sections. Including the first piece of track that extends beyond the tunnel portal placement areas ①, ②, ③, and ④ (Fig. 12).

#### **Items Needed**

- Several 4" x 8" pieces of Plaster Cloth
- Low Temp Foam Glue Gun, Low Temp Foam Glue Sticks, or Foam Tack Glue
- Hobby knife
- Straightedge or ruler
- Foam Pencil
- 120-grit sandpaper
- Bowl or a paint tray of water
- Liquid detergent
- Small paintbrush
- Scenic Sprayer
- Eyedropper or straw
- Black construction paper









- F. Spread Foam Tack Glue over track area inside tunnels or on bottom of the Track-Bed (Fig. 17)
- G. Lay Track-Bed inside Tunnel areas, keeping it centered on track tracing. Pin with Foam Nails (Fig. 17).
- H. Six inches of Track-Bed should protrude out from all tunnel placements.
- I. Trim excess. Cut Track-Bed to form areas for turnouts (Fig. 19).
- J. Let glue dry and remove Foam Nails.

Fig. 19







- A. Spread an even layer of Foam Tack Glue on top of Track-Bed, working in small sections (Fig. 20). NOTE: Do not put glue under any part of the track that has moving parts, (page 18, Fig. 61a).
- B. Re-pin each track piece to the glue-covered Track-Bed, making sure there is a secure connection between track pieces. Allow glue to dry.
- C. Make a solution of "wet water" by mixing 2 drops of liquid detergent in one cup of water. This solution keeps the Ballast from clumping when applying Scenic Cement.
- D. Cover only 3" 6" of the track inside the tunnel areas with Ballast. To do that, brush Scenic Cement on the sides of the Track-Bed. Be careful not to get Scenic Cement on the track. Pour Ballast directly over the track and ties. Be sure no Track-Bed shows through on either side.
- E. Brush excess Ballast from the ties and rails and spread evenly with a small, dry paintbrush. (Fig. 21)
- F. Make sure Ballast is even with the ties for a realistic appearance.
- G. Lightly mist "wet water" with Scenic Sprayer on Ballast to prevent clumping.
- H. Use an eyedropper to carefully apply Scenic Cement on Ballast (Fig. 22). If necessary, clean rails.

#### **Place Foam Tunnel Portals**

Trace four Hydrocal Tunnel Portals onto 1/2" Foam Sheet (Fig. 23). Cut out with hobby knife. Foam Tunnel Portals serve as reference for Tunnel placement and provide stable backing for Hydrocal Tunnel Portals. Cut scrap pieces of foam the height of the Riser and/or Incline for foam Tunnel Portal supports. Locate Tunnel Portal positions on track plan and pin foam Tunnel Portals in place with Foam Nails (Fig. 24).











#### **Tunnel Walls**

Tunnel walls will be cut from 1/4" x 12" x 24" Foam Sheets. Refer to "Tunnel Wall Parts and Assembly" (Fig. 25 and Fig. 26) for dimensions and Fig. 29 for placement. Cut 14-1" x 1" high supports (from 1/2" foam) for tunnel walls (printed on base) and glue onto base in areas shown. Tops of tunnel walls should be even with tops of foam tunnel portals (Fig. 27). When installing foam portals vertically, small gaps may occur. On walls 8, 9 and 11, one end of the sheet will rest on a support and the other end will angle down and rest on the base (Fig. 28). Some walls have no support and will sit on the base next to the Riser. Trim pieces if necessary. *Tip: Flex the 6" x 24" tunnel wall pieces gently back and forth so they will not break when following the contours of the Risers. Paint 6" to 8" inside all tunnel entrances before the tunnel roofs are installed. Use the black tunnel paint included.* To darken the tunnel behind the custom foam tunnel portal facing on OVAL #2, glue black construction paper, included, on the area to cover the Riser and Incline.

Test fit tunnel walls by pinning them in place with Foam Nails. Allow for train clearance. When satisfied with fit, glue tunnel walls and foam tunnel portals in place. When dry, remove Foam Nails.



(10)

- Profile Boards

Profile Boards are ribbed 8" x 24" interlocking components with a 1" edge on one side and a 1/2" edge on the other. Front and back Profile Boards will be assembled with the 1" edge down (ribs inward) and left and right Profile Boards will be assembled with the 1/2" edge down (ribs inward), so they will interlock at corners (Fig 30). Connectors interlock Profile Boards side-by-side and on top of each other (Fig. 30a).



#### **Cut Access Panels**

- A. Cut the Access Panel openings on Profile Boards 1, 2, 3, 4 and 5 using a hobby knife and a straightedge (Fig. 31).
- B. Cut a 1" x 1" hole in the center of each Access Panel for easy removal (Fig. 32).





#### Cut and Assemble Profile Boards

- A. There are eleven printed Profile Boards. Use Woodland Scenics Hot Wire Foam Cutter or Foam Knife to cut terrain contours following printed patterns (Fig. 33).
- B. Locate the five 3" x 8" Connectors and cut (Fig. 34).



C. Sort the Profile Boards and

Connectors by all four sides and cut following patterns.

Front Profile - 4 cut Profile Board pieces 7, 8, 9, 10 and three 2" Connectors.

Left Profile - 3 cut Profile Board pieces 11, 12, 12a, one 2" Connectors and one 4" Connector.

Back Profile - 6 cut Profile Board pieces 1, 1a, 2, 3, 4, 4a and five 4" Connectors.

**Right Profile** - 4 cut Profile Board pieces 5, 5a, 6, 6a and two 4" Connectors.

- D. Starting with front of layout, assemble Front Profile Boards with Connectors (Fig. 30, page 11). The ends of each side assembly are 1/2" from corners of base and interlock with the Profile Board of the adjoining side. *The 1/2" is critical for alignment of all sides with the base (Fig. 33a). Trim, if necessary.*
- E. Align smooth sides of Profile Boards with outside edge of base and pin them in place with Foam Nails.
- F. Assemble the remaining three sides in the same manner.
- G. When all Profile Boards are in place, glue to base on inside of layout and to Connectors and at seams.
- H. Now is a good time to "touch up" terrain contours to make them continuous and trim any Connectors that extend above the layout sides (Fig. 35).
- I. Cut six 1" x 2" scraps of Profile Board and glue two each to the inside of Access Panel opening of Profile Boards inside layout (Fig. 36 and Fig. 37). These will act as stops for Access Panels.











#### **Fill Corner Joints**

Using scraps of Profile Boards cut  $1/2" \times 1/2"$  strips (Fig. 38). Fill the void at each corner where Profile Boards meet. Trim to height of corner (Fig. 30).



#### - Upper Tier Track Supports

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- A. Cut a 1/2" x 1/2" notch in the ends of each upper tier Incline (Fig. 39).
- B. Now using the three pieces you cut from the 1/2" Foam Sheet on page 8 (Fig. 16), cut two of them down, one to 18" and one to 22" (Fig. 40).
- C. Place the 18" and the 22" Foam Sheets over the back tunnel area lengthwise into the sixth groove (counting from the bottom) of Profile Board 2 and 3, leaving an 8" gap for the river (Fig. 41) beneath the bridge. Reference where you marked for bridge location (page 9, Fig. 18).

Note: you may need to cut a notch to fit the Foam Sheet around the Profile Board Connectors (Fig. 39).

- D. Replace the entire track and pin in place. Make sure the 8" river gap is properly placed. The bridge should overlap 1/2" on both upper tier track supports. Adjust if necessary. Draw an outline of the track on the upper tier area (Fig. 43). Then remove the upper tier track.
- E. Cut a 5" x 8" piece of foam from a 1/4" Foam Sheet and fit into place for the river bottom. Foam sheet will rest on first rib of Profile Board and Tunnel Wall (Fig. 42). Adjust the foam piece to fit in place. Foam Sheet should fit 1/4" below upper tier supports.
- F. Cut the 4" x 24" Foam Sheet into two pieces to bridge the gap between the upper tier Incline and upper tier track supports (Fig. 41). Make sure these pieces fit flush into the 1/2" x 1/2" notch cut on the upper tier Incline (Fig. 41). This entire area should be level and flat.
- Fig. 39 **Items Needed** · Foam Nails · Low Temp Foam Glue Gun, Low Temp Foam Glue Sticks, or Foam Tack Glue Hobby knife 1/2" Foam Sheets 1/2 x 1/2" Notch Fig. 40 1/2" Foam Fig. 41 Connector Notch #2 Profile Board 1/2" Foam #3 Profile 8" Board River Gap Notch 18" Upper Tier Connector Track Support **Tunnel Wall** Upper Tier Incline 6th Groove Upper Tier Incline 22" Upper Tier Track Support
- G. Install 0" 1" Inclines, on both sides of the gap, with the 1" end of the Incline even with the 8" river gap (Fig. 44). Center over the track tracings.
- H. Re-install the track, test fit and pin track. It is recommended that you run your train on the track to test for proper clearances. If all foam work was installed correctly, the train should not touch any tunnel walls or overpass areas. Make adjustments if necessary.
- I. If no clearance problems are found, remove the loose track. Then install and glue upper tier track supports, river bottom and the two 0" 1" Inclines into place.



# Tunnel Roof and Platforms

The Tunnel Roof serves as support for paper wads used in a future step.

- Test fit 1/4" Foam Sheet and place inside the corner of the layout with edges Α in between ribs of back Profile Board (Fig. 45).
- B. With Foam Pencil, mark Connector locations and cut 1" notches in Foam Sheet to fit around them.
- C. Set aside one 1/4" Foam Sheet for river bottom.
- D. Pin Foam Sheet down and trim to meet outside edge of tunnels. Continue covering all tunnel areas in this manner with 1/4" Foam Sheets (Fig. 46). Don't worry about neatness, the work will be covered in a later step.

#### **Items Needed**

- Foam Nails
- · Low Temp Foam Glue Gun. Low Temp Foam Glue Sticks, or Foam Tack Glue
- Hobby knife
- Masking tape
- Awl or small drill bit
- Foam Sheets
- Newspaper



Fig. 45



#### **Cut Foam Sheets to Create Flat** Areas

Foam Sheets make level areas to place buildings, factories, towns and roads. Because there are no precise measurements for flat areas on the layout, refer to illustrations to decide placement and approximate size of areas.

A. Cut a 1/4" Foam Sheet for river bottom. Use 1/2" Foam Sheets to make flat areas (Fig. 47).

Important: A clearance of 1 1/2" is recommended between sheets and Inclines marked "A" (Fig. 47).

- B. Make supports from scrap Profile Boards to lift the flat areas off the base.
- C. When satisfied with flat areas, glue foam in place. Let dry.

#### **Test Place Buildings**

If you have purchased the River Pass Building Kits or have other buildings, test fit them in flat areas, keeping plenty of clearance for train and landscaping items. See back page (Fig. 64) for suggested placement.



#### **Add Road Foundation**

To build the road foundation, use three 1" Risers. Pin Risers in place, using scrap sheet goods and newspaper wads to elevate the Riser to desired height (See "Add Plaster Cloth and Track-Bed" on pages 16 and 17 for instructions on how to make newspaper wads). At intersections of the railroad and roads, lift the Risers and scrap foam up 1/4" above the Incline where crossing will be (Fig. 49). When satisfied, glue all foam pieces in place with the Low Temp Foam Glue Gun. Remove Foam Nails.



Position track on layout. Determine where your transformer will be located and run wiring through Access Panel or poke a hole through Profile Board at any convenient location.

#### **Method 1**

Make a hole in the Risers just large enough for wire, or run wire down the sides and along Risers and Inclines. Tape or glue wire to base.

#### **Alternate Method**

Drill a hole just large enough for the wire to pass through the base (an awl can be used to punch the hole). On the underside of layout, route wiring to power supply or electric switches. We recommend leaving a single exit point for wiring to maintain a clean appearance.

Note: When covering layout with Plaster Cloth, consider the position of the wiring.

# Add Plaster Cloth and Track-Bed

Before adding Plaster Cloth, remove track and make sure all foam components are glued in place and Foam Nails are removed. Stack, compress, shape and form the newspaper wads to conform to the desired contours for the mountains, hills, dry creek bed and other terrain features. Refer to photo on front of the box for these details. You will need several newspapers to create the terrain.



#### **Make and Place Newspaper Wads**

- A. Begin at the outside edge of a sheet of newspaper and roll the edges under to form pillow shapes as shown (Fig. 50).
- B. Stack wads even with or below the top of Profile Boards to form realistic contours (Fig. 51). Fill in between Risers and around perimeter of Foam Sheets.
- C. Use masking tape to hold newspaper wads in place (Fig. 52).
- D. Allow clearance around foam Tunnel Portals.



#### Items Needed

- Bowl or a paint tray
   of water
- Foam Nails
- Scissors
- · Hobby knife
- Several newspapers
- · Masking tape

#### **Plaster Cloth**

F.

Ι.

Plaster Cloth makes a strong, hard shell over the layout for the application of landscape and scenery products.

- A. Set aside one roll of Plaster Cloth for layout sides. Cut one roll into 12" pieces.
- B. Hold pieces by corners. Dip into pan of water (Fig. 53).





Fig. 53

Pin pieces of Plaster Cloth to all sides of Layout, with bumpy side out. On the front and wherever possible use a continuous piece, allowing an inch or so to overlap the sides and top. Spray the Plaster Cloth thoroughly with water, working the plaster with your fingertips to fill in holes (Fig. 57). Apply around access panel areas, overlapping opening by 1/2" (Fig. 58). When Plaster Cloth is thoroughly dried, cut Plaster Cloth out of access panel opening with hobby knife.





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#### **Test Track**

Once Plaster Cloth has dried, re-fit track on Risers. Hook up power and test train for clearance and derailing problems. When a clear run is made with the train, remove train, pin track in place and retrace pattern on Plaster Cloth covered Riser. Make sure to clearly mark the position of the track. Now, remove track in large sections as before. Use masking tape to secure track pieces if necessary.

# Lay Track-Bed

Following the tracing of the track, glue down Track-Bed by spreading a layer of Foam Tack Glue on the bottom of the Track-Bed or on track tracing (Fig. 59). Make sure Track-Bed is centered on track tracing and pin in place. Make sure any butted ends of Track-Bed meet without bumps, ridges or gaps. To do this, overlap ends and cut through both pieces with a hobby knife (Fig. 60). Let glue dry and remove Foam Nails.





#### **Glue Down Track**

Making sure all track connectors are snugly attached and the track is not crimped. Begin laying track from the Tunnel Portals where the track is already in place. Glue remaining track to Track-Bed by spreading an even layer of Foam Tack Glue on top of Track-Bed and attaching track one section at a time (Fig. 61). Be careful not to use too much glue or to get glue on rails. It is especially important to avoid putting any glue under any of the track's moving parts (Fig. 61a).





# Install Tunnel Portals and Culverts

#### **Install Tunnel Portals**

Test fit Portals at each foam tunnel portal opening, making sure to **center Portal opening over track**. If Portal does not fit properly against the foam tunnel portal, cut into the Plaster Cloth with a hobby knife to make room for it (Fig. 62). Make sure there is enough clearance for the train to pass and when satisfied with test fit, spread Foam Tack Glue on back of Hydrocal Tunnel Portal and place Hydrocal Tunnel Portal onto foam tunnel portal. Fill in any gaps with small, wet strips of Plaster Cloth. Allow the glue to dry. *NOTE: You may want to paint Tunnel Portals before you install them. Paint is included in River Pass Scenery Kit #2 (S1488).* 



#### **Install Culverts**

You need to assemble Culverts before attaching them to layout. The retaining walls can be used in any formation with the Culvert, or not at all. Test fit Culverts on the layout (Fig. 63). You may need to cut into the layout to allow enough room for the Culvert. To attach, spread Foam Tack Glue on the back of the Culvert and in the Culvert area. Allow glue to become tacky and press into the terrain. Fill in any gaps with small, wet strips of Plaster Cloth. Allow the glue to dry.



Save the Base Paint included in this kit to paint your outside base once landscaping has been completed.



If you desire additional products, refer to the list below for the Woodland Scenics products that were used to construct River Pass Layout Kit

Description	Item No.	Page
SUBTERRAIN ITEMS		
2" Riser 4/pkg	ST1408	6
4% Incline Set	ST1411	7
3% Incline Set	ST1416	7
1/4" Foam Sheets	ST1422	6
8" Profile Boards and Connectors	ST1419	11
1/2" Foam Sheets	ST1423	9
Foam Pencil	ST1431	8
2" Foam Nails	ST1432	5
Hot Wire Foam Cutter	ST1435	12
12 oz. Foam Tack Glue	ST1444	5
Low Temp Foam Glue Gun	ST1445	5

Description	Item No.	Page
Low Temp Foam Glue Sticks	ST1446	5
24' HO Scale Track-Bed Roll	ST1474	9
LANDSCAPING SYSTEM ITEMS		
Buff Fine Ballast	B73	9
Scenic Cement	S191	9
TERRAIN SYSTEM ITEMS		
Plaster Cloth	C1203	8
Single Cut Stone Portal	C1253	18
Random Stone Culvert	C1264	19

To complete your layout, purchase the River Pass Scenery Kit #2 (S1488) and the Building Kits #3 (S1487). The Scenery Kit saves 35% over items purchased separately. The Building Kits save 38% over items purchased separately.



River Pass Scenery Kit #2 - S1488

## Complete Your Layout



River Pass Building Kits #3 - S1487

