

SubTerrain Scenery Kit Instructions

The SubTerrain Scenery Kit is a great way to learn how to use Woodland Scenics SubTerrain Layout, Terrain and Landscaping systems. After you have finished this kit, you will have the skills and knowledge to build a complete model railroad layout of any size!

The SubTerrain Scenery Kit Contents:

Description	Quantity
Profile, Tunnel, Portal and Riser Placement Pattern Sheet	1
Profile Boards™	2
1/2" Foam Sheet Base (12" x 24")	1
1/4" Foam Sheet (6" x 24")	1
2" Riser	1
Hob-e-Tac® Adhesive (Please read bottle instructions before using)	1 oz.
Foam Tack Glue™	3 oz.
Plaster Cloth (8" x 2.5 yds.)	2 rolls
N Scale Tunnel Portal	1
Rock Castings	4
1/8 oz. Paint cup - Yellow Ocher	1
1/8 oz. Paint cup - Burnt Umber.	1
1/8 oz. Paint cup - Black	1
Earth Undercoat	1 oz.
Wood Stirring Stick	1
Foam Pad Applicator	1
Track-Bed™ (24")	1
Atlas Snap Track - 1 1/4" straight	1
Atlas Snap Track - 5" straight.	2
Atlas Snap Track - 9 3/4" radius	2
Atlas Snap Track Connectors.	8
Black Paper (2 3/4" x 8")	1
Scenic Cement™	8 oz.
Spray Head	1
Natural Fine Talus	2 oz.
Blended Fine Ballast	2 oz.
Soil Fine Turf	2 oz.
Yellow Grass Fine Turf	2 oz.
Burnt Grass Fine Turf.	2 oz.
Earth Fine Turf	2 oz.
Green Blend Blended Turf	6 oz.
Med. Green Coarse Turf	2 oz.
Dark Green Clump-Foliage™	9 oz.
Med. Green Clump-Foliage™	9 oz.
Field Grass Harvest Gold.	1 gr.
Tree Armatures.	5

Additional items needed to complete the diorama which are not included:

- | | |
|-----------------------|------------------|
| Newspaper | Masking tape |
| Hobby knife | Fine sandpaper |
| Pan or bowl for water | Small paper cups |
| Scissors | |
| 2" paintbrush | |
| Straw or eyedropper | |

Additional tools not required but helpful

A generous supply of Foam Tack Glue and Hob-e-Tac are included with this kit. The Woodland Scenics Low Temp Foam Glue Gun (ST1445) and Low Temp Foam Glue (ST1446) can be purchased separately. On larger layouts, the Low Temp Foam Glue Gun and glue sticks allow you to pin foam components together with Foam Nails for testing before permanently gluing them down. Note: Remember to never use a high temp glue gun on these foam components. It will damage them.

The Woodland Scenics Hot Wire Foam Cutter (ST1435) is another product that is not required to finish the kit, but can be very useful when cutting the foam components. The Hot Wire Foam Cutter cuts the Woodland Scenics foam without making a dusty mess and leaves a smooth edge wherever it cuts.

The Woodland Scenics Foam Knife (ST1433), with a 2" blade, can be used in place of a Hot Wire Foam Cutter. It is also a great tool for cutting straight edges.

Woodland Scenics Foam Nails (ST1432) are durable 2" T-pins that are perfect for securing foam components while adhesives dry. Foam Nails come 75 to a package.

The Woodland Scenics Foam Pencils (ST1431) are the perfect tool for tracing patterns on Profile Boards. They will not damage foam components or bleed through covering materials, such as Plaster Cloth.

Introduction

The SubTerrain Scenery Kit is a great way to learn how to use Woodland Scenics SubTerrain, Terrain and Landscaping systems. After you have finished this kit, you will have the skills and knowledge to build a complete model railroad layout of any size.

As its name indicates, the SubTerrain Scenery Kit begins with Woodland Scenics revolutionary SubTerrain Lightweight Layout System. SubTerrain allows you to build a complete layout without using expensive power tools or making a dusty mess. You don't even need a large work area to do the job. It is the easiest way to build a layout.

After the SubTerrain components have been installed, you will then learn how to use Woodland Scenics Terrain and Landscaping Systems. These systems are so versatile and easy that anybody can use them. You can't make a mistake!

Keep in mind that these instructions teach you to build a diorama for an N scale locomotive or rolling stock. But you are not limited to that design. If you want to create a display for gaming figures, plastic models, or a collectible ceramic house, simply use the supplied foam components to create level surfaces sturdy enough to support your collectible house or model. You may even wish to buy more trees, or other scenery products, to enhance the kit. For more information and photos of variations of this kit, turn to page 15.

Building the SubTerrain Scenery Kit

The SubTerrain Scenery Kit is fun and easy to build. In just a few steps you will learn how to use Woodland Scenics complete SubTerrain, Terrain and Landscaping Systems. The first step is to cut out and install the various SubTerrain lightweight foam components.

SubTerrain Components

Woodland Scenics SubTerrain System makes it simple. It eliminates all the difficult woodworking, complicated calculations and dusty mess once associated with building a layout. Modelers no longer need a workshop or large area to build the model railroad of their dreams. Since SubTerrain does not require expensive power tools or woodworking skills, modelers can build a layout anywhere. Installing the SubTerrain components is the first step in building the kit.

When building a layout using the SubTerrain System, Foam Sheets are used to create flat level surfaces for model building and towns. They can also be used to create tunnels as they are in this kit. Foam Sheets come in thicknesses ranging from 1/4" to 4".

Prepare the various foam components by cutting them from the supplied 1/4" Foam Sheet. Also cut out Profiles from the ribbed Profile Boards. A SubTerrain Scenery Kit Pattern Sheet has been provided.

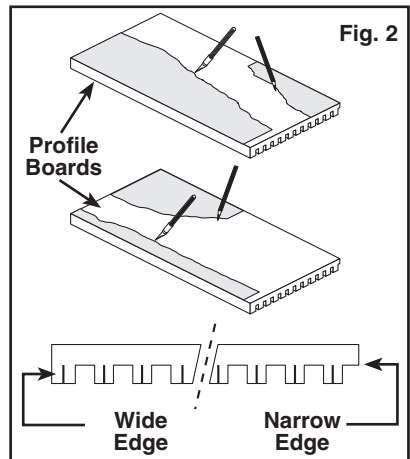
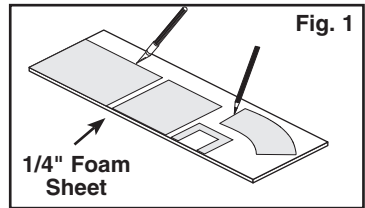
1. Following the instructions on the Pattern Sheet, cut out paper patterns on solid lines with a pair of scissors.

2. Patterns for the tunnel components (Tunnel Walls, Tunnel Roof, Foam Tunnel Portal Backing) will be used to cut the 1/4" Foam Sheet. Profile Patterns will be used to cut the Profile Boards.

3. Lay patterns for tunnel components on top of the 1/4" Foam Sheet as shown in Fig. 1. Trace patterns on Foam Sheet with Foam Pencil.

4. Use a hobby knife and a straightedge to cut out the shapes of the Tunnel Components. Remember to save all your scrap foam until the kit is finished.

5. Place Profile Patterns over the Profile Boards with printed side up as shown (Fig. 2). Make certain the flat edges of the patterns are even with the edges of the Profile Boards. Profile Boards have a wide edge and a narrow edge (Fig. 2). Align the bottoms of the front and back Profile Boards patterns with the wide edge of the Profile Board as shown. Align bottom edges of side Profile Boards patterns with narrow edge of Profile Boards. Side Profile Boards will have the narrow edge

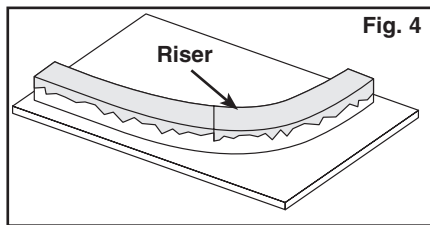
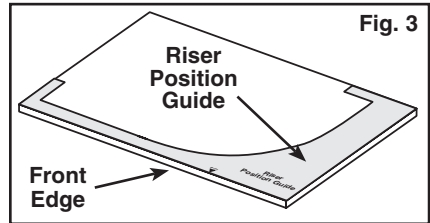


- on the bottom when installed. Draw patterns on Profile Boards with a Foam Pencil.
- Using a Woodland Scenics Hot Wire Foam Cutter or hobby knife, cut out terrain contours from Profile Board.
 - Make sure to cut the area designated on the left side pattern as flat as possible. This is where the Riser will meet the inside edge of the Profile Board.

Install Riser

Risers elevate the track allowing the modeler to add creeks, gullies and other low-lying areas without cutting into the base. Risers come in various heights including 1/2", 3/4", 1", 2" and 4". The 2" Riser provided with the kit will teach you how they are installed and used to enhance the terrain features.

- Place Riser Position Guide on foam base with edges aligned as shown (Fig. 3).
- Run a continuous bead of Foam Tack Glue on the bottom of Riser and on the area it will occupy on the base. Spread glue over both surfaces with a wooden stirring stick. Allow Foam Tack Glue to dry 5-10 minutes to form a "tacky" contact surface before placing Riser. Clean stirring stick.
- Place edge of Riser against inside edge of Position Guide as shown (Fig. 4). Allow glue to dry four hours.

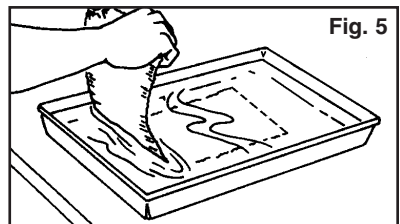


Note: The complete SubTerrain Lightweight Layout System includes pre-calculated Inclines that allow modelers to change the elevation of the track so trains can travel up and down hills. Inclines come in sets of 2%, 3% and 4% grades. This would normally be the stage where these Inclines are added. Since the diorama will be a display piece requiring a level surface, they have been omitted in this kit.

Place Plaster Cloth Over Riser

Now is a good time to cut out the Plaster Cloth sections needed later to cover the Profile Boards. Cut two full-width pieces 25" long and store them in a dry area for later use.

On an open layout without tunnels, Plaster Cloth would be added to the entire layout at a later step. Since the tunnel will be enclosed in the next few steps, Plaster Cloth is added to the Riser at this stage.



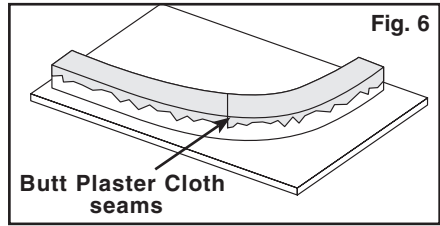
- Cut a 12" strip of Plaster Cloth from roll. Cut 12" strip in half (lengthwise) to make two 4" x 12" strips.
- Hold corners of first strip with bumpy side out and dip it in a pan, bowl or tray of water (Fig. 5).

3. Starting from left side of the Riser, place strip bumpy side up over Riser with approximately 3/4" overhang on either side (Fig. 6).

4. Rub Plaster Cloth strip with fingertips, filling in as many holes as possible.

5. Repeat with second strip making sure ends of both strips butt at seams.

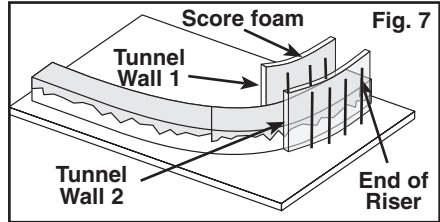
6. Be careful when proceeding not to disturb wet Plaster Cloth. Plaster Cloth will be completely dry in approximately four hours.



Add Tunnel Walls

1. Score the foam segments that will form the tunnel walls by making three or four vertical cuts half-way through the foam from top to bottom (Fig. 7). This will allow them to conform to the curve of the Riser.

2. Make sure rear of walls are aligned with back end of Riser before gluing walls to sides of Riser with Foam Tack Glue. Spread glue over wall and riser surfaces that meet with a wooden stirring stick. Allow Foam Tack Glue to dry 5-10 minutes to form a tacky contact surface before placing walls (Fig. 7). Clean stirring stick.



Install Profile Boards

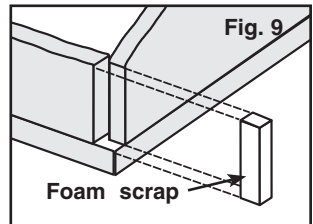
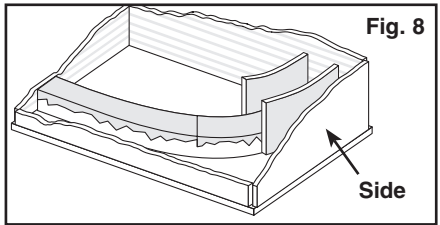
In the SubTerrain System, Profile Boards are used to form the "profiles" for the terrain contours. Profile Boards work on an interlocking tongue-and-groove design and fasten to each other at the corners. The set included in the SubTerrain Scenery Kit will show you how easy it is to cut and form terrain contours with these versatile components.

1. Place Profile Boards around edge of base as shown (Fig. 8). Corners should interlock in tongue and groove fashion. Side Profile Boards will have the narrow edge facing down.

2. Make sure edges of base and edges of Profile Boards are flush and even.

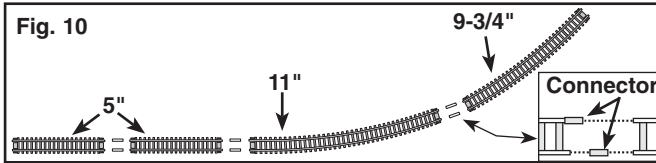
3. Spread Foam Tack Glue on the bottom of the Profile Boards, over the contact areas of the base, and at the tongue-and-groove joints to secure Profile Boards. Pin with Foam Nails if necessary.

4. Fill outside corners where Profile Boards interlock by taking scraps of foam and trimming them to fit the interlocking corners where Profile Boards meet (Fig. 9).

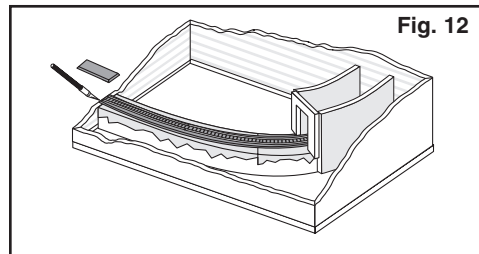
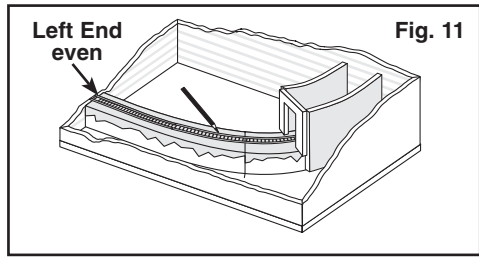


Lay Track-Bed and Track

On an open layout without tunnel, the Track-Bed and track would be added at a later step. Since the area inside the tunnel will be enclosed in the next step, Track-Bed and track must be added now.

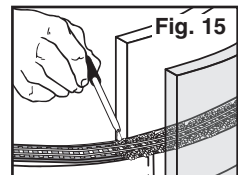
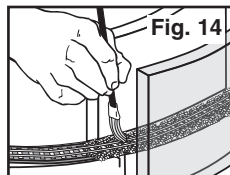
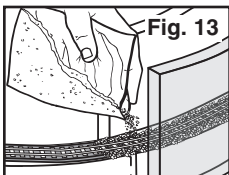


1. Assemble sections of Snap-Track in the following order, working left to right: 5" Straight, 5" Straight, 11" Radius, 9-3/4" Radius (Fig. 10). Make sure Track Sections are fastened together tightly with Connectors.
2. With the left end of the track even with the left outside edge of diorama, draw outline of track on Plaster Cloth. (Fig. 11). This will be the guide for laying the strip of Track-Bed. Remove track.
3. Test place the Track-Bed over the traced outline of track.
4. With scissors or hobby knife cut the end off the Track-Bed strip even with the left outside edge of diorama (Fig. 12).
5. For the best adhesion, sand the Track-Bed on both sides with fine sandpaper.
6. With wooden stir stick, spread a layer of Foam Tack Glue on the bottom of the Track-Bed strip and another on top of the Riser where the Track-Bed will be laid. Allow Foam Tack Glue to dry 5 -10 minutes to form a tacky contact surface before placing Track-Bed.
7. With the left end of the Track-Bed even with the left outside edge of diorama, press Track-Bed to top of Riser (Fig. 12).
8. Spread a layer of Foam Tack Glue on top of the Track-Bed where track will be laid. Place assembled track on top of Track-Bed and allow to dry thoroughly. Clean stirring stick.



Ballast Area Inside Tunnel

As with Plaster Cloth, Track-Bed and track, Ballast must be added to the area

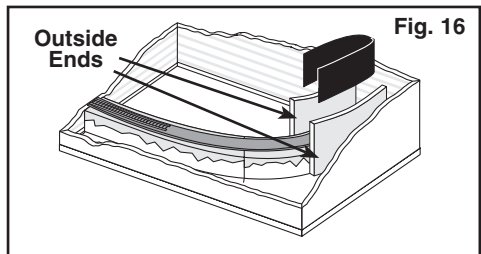


inside the tunnel, since it will not be accessible once the roof is in place. Do not add Ballast to entire length of Track-Bed and track. Just the portion inside the tunnel and an inch or two beyond the opening.

1. Open the bag of Ballast and pour an even amount over the track inside the tunnel and another 1" or 2" outside the Tunnel (Fig. 13).
2. Spread Ballast evenly with a wide, soft brush until it is even with the ties. Brush off Ballast from top of ties and rails (Fig. 14).
3. Mist adhesive onto Ballast to reduce surface tension and then saturate it for a strong bond using an eyedropper; carefully avoiding contact with the track (Fig. 15).
4. Make sure Track-Bed inside tunnel is completely covered with Ballast. Allow Scenic Cement to dry.
5. Clean rails before use. We recommend the Tidy Track® Rail & Wheel Maintenance System (TT4550).

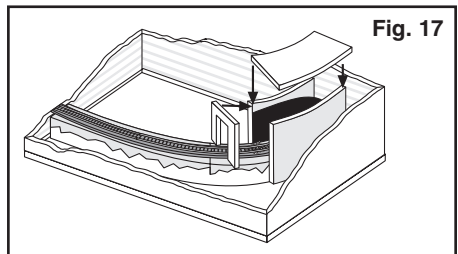
Install Paper Tunnel Liner

1. Place Paper Tunnel Liner inside tunnel. Ends of Paper Tunnel Liner should be even with outside ends of Tunnel Walls. Back of paper should form a curve. Glue sides of Paper Tunnel Liner to Tunnel Walls with Foam Tack Glue (Fig. 16).



Add Tunnel Roof and Foam Tunnel Portal Backing

1. Spread Foam Tack Glue on top edges of Tunnel Walls.
2. Place Tunnel Roof on top of Tunnel Walls (Fig. 17). It does not have to fit perfectly.
3. Center Foam Tunnel Portal Backing over track.
4. Use Foam Tack Glue to secure Foam Tunnel Portal Backing against tunnel opening. Ends of Foam Tunnel Portal Backing will protrude slightly over side edges of Riser.
5. Allow Foam Tack Glue to dry.



Adding Terrain Features

Terrain is defined as the physical features of a tract of land. These include the contours, elevation and shape of the land. Woodland Scenics has a simple way to build terrain contours.

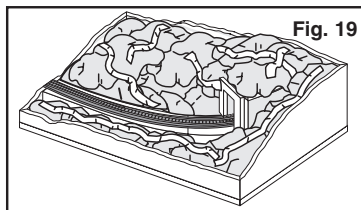
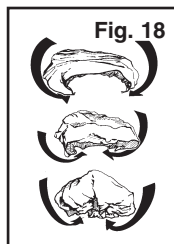
Make Newspaper Wads

Before beginning this step, make sure all foam components are glued down.

1. Tightly wad up several sheets of newspaper. Begin at the outside of the sheet and roll the edges under to form a rounded pillow shape (Fig. 18). This shape is easier to stack.
2. Stack newspaper wads around Risers and Profile Boards. Also place them around and on top of the Tunnel structure.

These will form the contours of the terrain (Fig. 19). Remember to build vertical surfaces to later install rock faces (see photo on box).

3. Use masking tape to hold wads in place.
4. Stacked newspaper wads should be even with the top of the rear Profile Board and taper downward until they are even with the Riser and top of front Profile Board. Do not place newspaper wads over track.



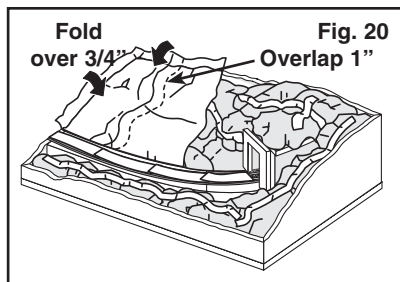
Add Plaster Cloth

When you are satisfied with the height and shape of your terrain contours, it is time to add Plaster Cloth to the rest of the diorama. Make sure not to cover the Track-Bed and track with Plaster Cloth.

1. Cover track with masking tape.
2. Cut several full-width sheets of Plaster Cloth roughly 12" long.
3. Plaster Cloth has a bumpy side and a smooth side. The bumpy side will be placed up making more plaster available. Hold a strip at the corners with the bumpy side facing away from you and dip it in a tray or bowl of water.

4. Starting at the left rear corner, lay Plaster Cloth directly on top of the newspaper wads (Fig. 20), overlapping the edges of Profile Boards by 3/4".

5. At the edges of the diorama, fold overlapping 3/4" of Plaster Cloth over to form a reinforced edge (Fig. 20).



6. Rub the wet plaster with your fingertips, filling in as many holes in the cloth as possible. Leave vertical surfaces to add rock faces in the next step (see photo on box).

Tip: To create the appearance of rocky terrain, form bumps and ridges by pinching some areas of the wet Plaster Cloth (see area at upper left of Tunnel Portal on box photo for placement suggestions). Do this in only a few areas, not over the entire diorama.

7. Repeat the procedure, overlapping the strips by 1" until all the newspaper wads are covered (Fig. 20).
8. Allow Plaster Cloth to dry at least 4-6 hours.
9. Store leftover Plaster Cloth in a dry area for later use. Note: Do not dump remaining water down sink drain. Pour off excess water and throw plaster remnants in a trash can.

Plaster Cloth Sides of Diorama

Now it's time to add Plaster Cloth to the sides of the diorama. This step reinforces the sides of the model and changes the texture of the foam Profile Boards.

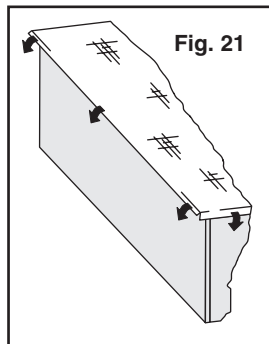
1. Place the patterns for the sides of the diorama on the two previously saved 25" strips of Plaster Cloth with the bumpy side out. The back Profile uses one piece and the front and side Profiles can be cut from the second piece.

2. With a hobby knife or a pair of scissors cut the Plaster Cloth leaving 1/4"-1/2" extra around the pattern.

3. Set the diorama up on its front to access the back Profile Board. (Fig. 21).

4. Lay the appropriate Plaster Cloth piece on the back, spray with water to wet a few inches at a time. Rub the wet area until the plaster fills as many holes as possible. Wrap edges of the Plaster Cloth around the corners, top and bottom of diorama. Wet and smooth the entire piece of Plaster Cloth. (Fig. 21).

5. Apply Plaster Cloth to the remaining three sides in the same manner. Allow Plaster Cloth to dry thoroughly.



Add Rock Faces

1. Choose three or four vertical surfaces for appropriate locations to fit rock faces. See photo on box for examples. The area doesn't have to be the exact size and configuration of the rock face.

2. Test fit rock faces. Push in or cut Plaster Cloth so rock faces will fit vertically (Fig 22). Fit rock face as snugly as possible against the Plaster Cloth. For now, do not worry about small gaps around the edges.

3. Set rock face aside and cut a dozen strips of Plaster Cloth approximately 1" wide and 4" long. These strips will be used to fill gaps around the edges of the rock face and Plaster Cloth.

4. Spread a layer of Foam Tack Glue on the back of the rock face and on the Plaster Cloth where it will be placed.

5. Place rock face in desired area.

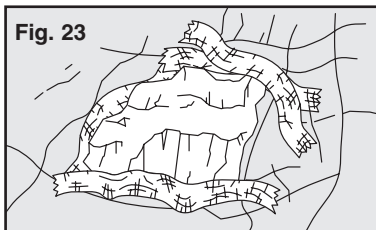
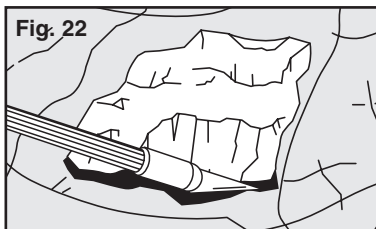
6. Dip strips of Plaster Cloth into a pan of water one at a time and place them around the edges of the rock face and Plaster Cloth terrain to fill gaps (Fig. 23). Be careful not to drip Plaster on rock faces.

7. Rub strips with fingertips so that the cloth texture does not show.

8. Repeat for each rock face.

9. When Plaster Cloth is dry, rock faces will adhere to Plaster Cloth terrain.

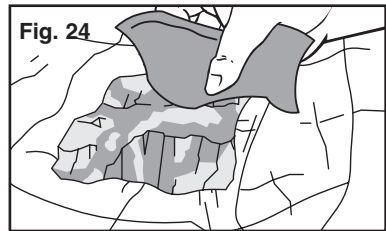
Make sure there are no gaps around the rock faces. Note: This is only one method of attaching rock faces. Another is to attach them with a solution of Woodland Scenics Lightweight Hydrocal* and water. The Lightweight Hydrocal acts as an adhesive and can also be used to fill in gaps around the rock faces in place of the Plaster Cloth strips.



Color Rock Faces

Coloring the rock faces is easy and yields extremely realistic results.

1. Using three small paper cups or containers, dilute the Burnt Umber and Yellow Ocher Earth Color Liquid Pigments in separate cups by mixing 1/2 the contents of the individual pigment containers with 3 tablespoons of water (1 part pigment to 16 parts water). Black Wash will be mixed thinner. Mix 1/2 of the contents of Black Wash with 6 tablespoons water (1 part pigment to 32 parts water). **Do not mix pigment colors.** Stir all solutions thoroughly. If pigments are too light, add more pigment to the solution. If they are too dark, add more water. A technique called leopard spotting is used to apply the pigments. To leopard spot the castings, randomly apply individual colors over only 1/3 of each rock face and then apply Black Wash over entire rock to tie the colors together.
2. Dip Foam Pad applicator in the Burnt Umber wash. "Leopard spot" 1/3 of each rock face (Fig. 24). Don't worry about run off onto the Plaster Cloth. Rinse Foam Pad.
3. Repeat with Yellow Ocher. Rinse Foam Pad.
4. Add pigments until you are satisfied. Allow pigments to dry a few minutes.
5. Dab Black Wash over all rock faces to tie colors together. Let wash run into all cracks and crevices.
6. Save remaining mixtures of pigments to use on Tunnel Portal, Talus and general touch up work.



Paint Tunnel Portal

Since you have the Pigments ready, now is a good time to paint the unattached Tunnel Portal.

1. Using Foam Pad, dab Black Wash over entire Tunnel Portal until it has a stone gray appearance.
2. Let Pigment dry and spray with Scenic Cement to hold color.
3. Tunnel Portal will be attached to Foam Tunnel Backing after Earth Undercoat is added to Plaster Cloth in the next step.

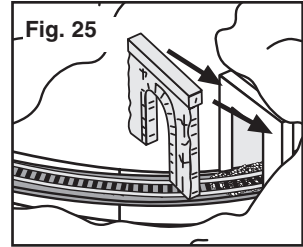
Add Earth Undercoat

Earth Undercoat takes the whiteness from the Plaster Cloth. It collects in the folds and crevices of the terrain creating a splotchy surface that provides a very realistic appearance when covered by landscaping products.

1. In a paper cup or container, mix entire bottle of Earth Undercoat with 1/2 cup of water. Stir thoroughly.
2. Dip the Foam Pad or a paintbrush in the mixture and dab it onto the Plaster Cloth. Let the excess run down the terrain features to fill in the crevices and low spots. Be careful to avoid the colored rock faces and rocky terrain.
3. Cover all white Plaster Cloth surfaces (except for sides) in this manner. When applied, Earth Undercoat should be slightly translucent.
4. After Earth Undercoat has dried, spray rock faces with Scenic Cement to hold color.

Attach Tunnel Portal

1. Test place Tunnel Portal over Foam Tunnel Portal Backing. If Tunnel Portal does not fit easily, cut into the Plaster Cloth around tunnel backing.
2. Spread Foam Tack Glue over back of Tunnel Portal.
3. Spread another layer of glue over the surface of Foam Tunnel Portal Backing.
4. Attach Tunnel Portal to Foam Tunnel Backing (Fig. 25). Hold firmly in place a few seconds.
5. Allow glue to dry.



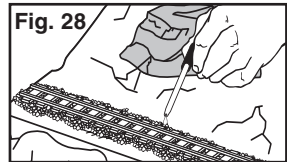
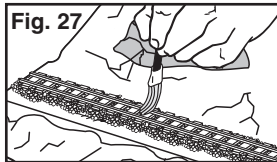
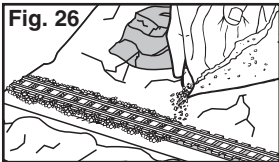
Landscaping

After the Plaster Cloth has been painted with Earth Undercoat and the rock faces are attached and colored, it's time to add landscaping. This process will add color, texture and realism to the diorama.

All the provided products can be used in whatever fashion and quantity you wish. The following instructions serve mainly to guide you through the process. Feel free to add the materials in the quantity and manner that best meets your theme. You cannot make a mistake. Look at the picture on the box for ideas.

Ballast the Rest of the Track

1. Open the bag of Ballast and pour an even amount over the track inside the tunnel and another 1" or 2" outside the Tunnel (Fig. 26).
2. Spread Ballast evenly with a wide, soft brush until it is even with the ties. Brush off Ballast from top of ties and rails (Fig. 27).
3. Mist adhesive onto Ballast to reduce surface tension and then saturate it for a strong bond using an eyedropper; carefully avoiding contact with the track (Fig. 28).
4. Allow Scenic Cement to dry.
5. Clean rails before use. We recommend the Tidy Track® Rail & Wheel Maintenance System (TT4550).



Low Ground Cover

Low Ground Cover represents grasses and other low growing plants. When applying landscaping avoid rock faces, Tunnel Portal, track and Ballast.

1. Cut off one corner of the bag of Green Blend Blended Turf.
2. Avoiding the rock faces, Tunnel Portals and rocky terrain, spray a layer of Scenic Cement over the entire layout.
2. Sprinkle Green Blended Turf lightly over sprayed areas. Avoid fronts of rock faces, Tunnel Portal, track and Ballast.
3. Cut one corner off each of the other Low Ground Cover bags (Burnt Grass, Yellow Grass, Earth, and Soil Fine Turf).

4. Lightly sprinkle remaining Turfs over the Green Blended Turf to add color and texture. Burnt Grass provides a variation in the coloring. Yellow Grass can indicate areas that do not receive much water. Earth and Soil can be used to model worn areas, such as paths or spots of bare ground. Use these products sparingly to add highlights and contrasts. If too much of one color is used, just sprinkle another color over it in a salt and pepper fashion.

5. When satisfied with appearance of the Low Ground Cover, spray it with Scenic Cement.

Assemble Trees

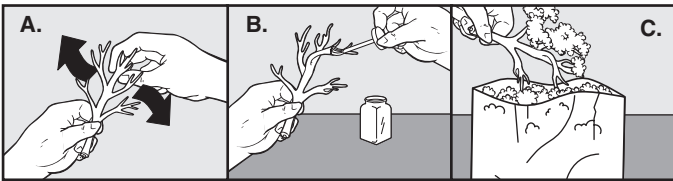
Build the trees now and set them aside.

1. Remove temporary bases from the Tree Armatures. Twist and bend the Armatures to a realistic three-dimensional shape you like (Fig. 29A). Brush Hob-e-Tac on the branches of the Armatures and wait 15 minutes until Ho-e-Tac is clear and tacky (Fig. 29B).

2. Dip the Armatures into either bag of Clump-Foliage for quick application or apply Clump-Foliage by hand (Fig. 29C). Spray completed trees with Scenic Cement to secure loose foliage.

3. Place trees in bases and let them dry. They will be added to the diorama in a later step.

Fig. 29



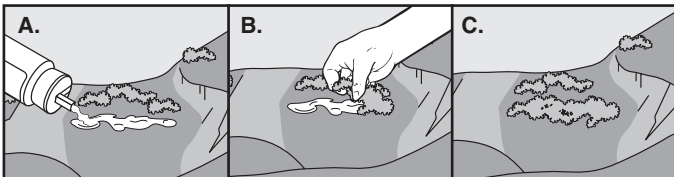
Medium Ground Cover

The Medium Green Coarse Turf provides texture variation and can indicate weeds, coarse grass and small plants.

1. Cut a corner of the Medium Green Coarse Turf bag and sprinkle it over desired areas. Avoid rock faces and rocky terrain areas. (See photo on box).

2. Create bushes and shrubs with the remaining Clump-Foliage used to make the trees. Place drops of Foam Tack Glue on the diorama where you want bushes and press pieces of Clump-Foliage onto them (Fig. 30A. and 30B.).

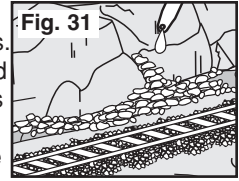
Fig. 30



Bushes often grow in groups rather than individually (Fig. 30C).

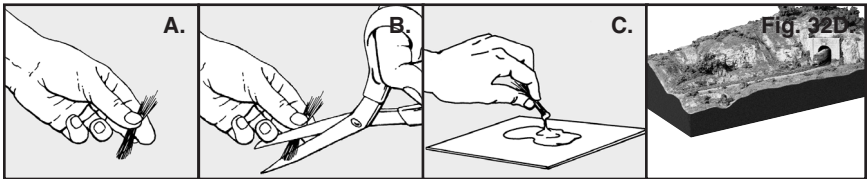
3. Lightly spray Clump-Foliage bushes with Scenic Cement and sprinkle very small amounts of Burnt Grass and Yellow Grass Turf on top of them to add highlights.

4. Talus is the rock debris, which collects beneath cliffs, around the base of mountains and in and near water areas. Cut off one corner of the bag and sprinkle the Talus around the foot of your rock faces. Stain Talus to match rock faces by using the same techniques you used to color the rock faces. Try adding it to the top of rock faces and around the Tunnel Portals. Secure with Scenic Cement, either applied with a drinking straw or an eyedropper (Fig. 31).

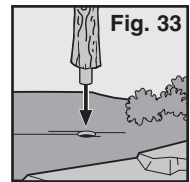


High Ground Cover

1. Remove a pinch of Field Grass from the package and roll it around between your fingers to produce an uneven end (Fig. 32A.). Cut one end evenly with a pair of scissors to an appropriate length to scale (Fig. 32B.). For N scale, Field Grass should be between 1/4" and 3/8" tall. Place a small amount of Hob-e-Tac Adhesive on a piece of paper and dip the even end of the Field Grass in it (Fig. 32C.) Set Field Grass clump wherever you wish on the layout (Fig. 32D). Repeat with remaining Field Grass until satisfied with appearance.



2. To install the trees, take a hobby knife and make a small hole in the Plaster Cloth where the tree is to be placed. Place a drop of Hob-e-Tac over the hole. Place the bottom pin in the hole (Fig. 33). Repeat with remaining trees. See box for placement ideas.



Finishing touches

The final step is the finishing or detailing. These are the extra touches, which provide additional realism and interest to a model. Many of the finishing or detailing touches use the same products, which have been used earlier, perhaps with a slightly different technique. Allow the diorama to dry completely from all previous steps before beginning the detailing.

Dry Brushing Turf

There may be several areas of your diorama where you want additional Fine Turf to create more color variation, add more color, cover up splotches of glue or plaster, or disguise some other undesirable feature. Dry brushing with Fine Turf is an easy technique, which allows you to see the results before attaching the Fine Turf.

1. Dip a dry paintbrush into any of the colors of Fine Turf and brush it onto the diorama where you want it. Add some Soil or Earth Fine Turf on top of the Talus and along the edges of the Ballast to model the dirt, which would collect there. Paint some Burnt Grass Fine Turf around the bottoms of the trees to cover any Hob-e-Tac which appears there and to model weeds and grasses. Use some Burnt Grass Fine Turf around the base of the Field Grass to cover Hob-e-Tac. If

you get too much or do not like the look you have created, remove the material by gently blowing on the area.

2. When satisfied with the appearance of the Fine Turf, spray lightly with Scenic Cement to hold the Turf in place.

Adding Additional Landscape Material

You may wish to add some additional landscape materials to the diorama for more variety in texture or color, to add more realism, create more interest in the scenery, or cover gaps around terrain features.

1. More Coarse Turf, Clump-Foliage bushes, ground cover and Field Grass clumps can easily be added at this time. Refer back to the original directions for adding these items and add them in the same way now.

2. Lightly overspray bushes, ground cover, and trees with Scenic Cement and very lightly sprinkle on Burnt Grass and Yellow Grass Fine Turf to provide color variations.

Flyspecking Turf

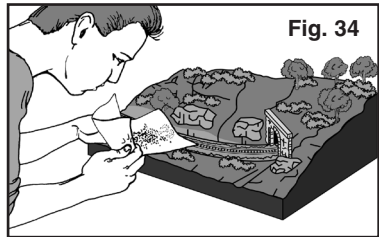
Dirt and soil collects in many areas including rock faces, on top of Ballast and Talus and on Turf areas. Woodland Scenics has a special technique called Flyspecking that makes adding these details easy.

1. Spray the rock casting with water. Bend a sheet of paper into an L shape.

2. Place a small amount of Soil Fine Turf on the horizontal section of the paper (Fig. 34).

3. Hold the paper near the rock castings and gently puff air on the vertical section of the paper. This will blow flyspecks of Soil onto the rock castings. If you apply too much Soil, brush it off with dry paintbrush.

4. When satisfied, secure with Scenic Cement.



Paint sides of diorama

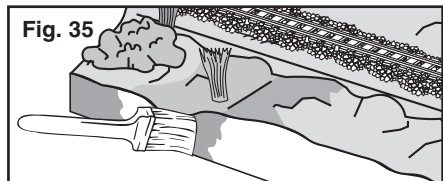
Painting the sides of the diorama will make it look even better. Use any color of acrylic paint you wish. Use a 2" paintbrush or roller (not provided) for this step.

1. Using a fine grit sandpaper wrapped around a block, sand out the lumps and other rough areas on the sides of the diorama.

2. Begin painting the front of the diorama and work your way around (Fig. 35).

3. Be careful to avoid edges where landscape begins.

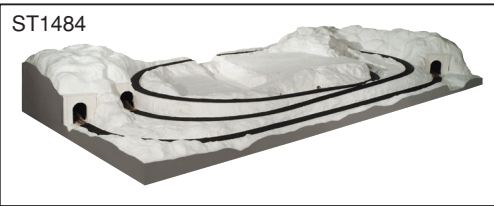
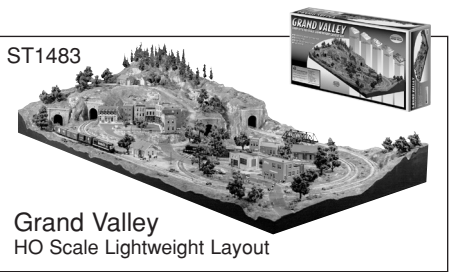
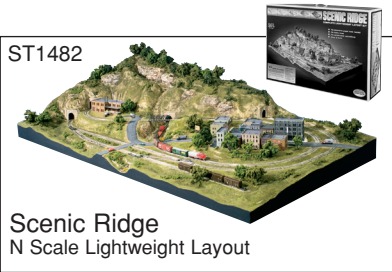
4. Paint all sides and allow paint to dry.



Other ways to build this kit

Don't be limited by these instructions. If you prefer to construct a display for gaming figures, plastic models or even collectible ceramic houses, simply adjust the way you use the provided materials.

For example you can use the Riser and 1/4" Foam Sheet to build level areas that will support ceramic houses or figurines. You can even use the Ballast to build a gravel road for a model tank or automobile. Don't be afraid to use your imagination. Woodland Scenics products are extremely versatile and easy-to-use. If you want to try something new, go ahead! Here are a few photos to give you some ideas. Now you have the skills to build any Woodland Scenics complete layout. Try these, you can do it!



River Pass Layout Kit #1



River Pass Scenery Kit #2



River Pass Building Kits #3



H5 © 1999 OCO
WOODLAND SCENICS®
 P.O. Box 98, Linn Creek, MO 65052
www.woodlandscenics.com