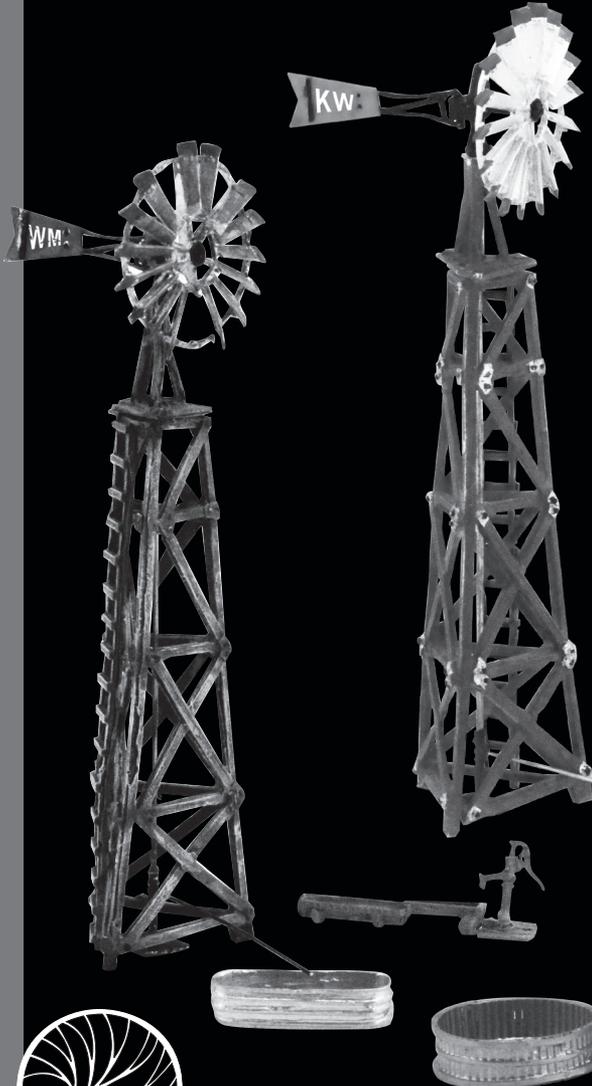


LANDMARK STRUCTURES®

N SCALE
1:160
BUILDING KIT

WINDMILLS PF5213

Build two windmills on wood towers. One Windmill features broken blades, while the other is in good condition. Accessories include two oblong stock tanks, a hayrack with hay, a hand pump and trough, a round stock tank and Dry Transfer Decals.



MODELING AND CARE INFORMATION

This kit suggests the use of materials that may stain or cause damage. Take care to cover project area and clothing appropriately. Follow recommendations for use and cleanup.

CAUTION: Cutting tools recommended. Use with care.



WOODLAND SCENICS®

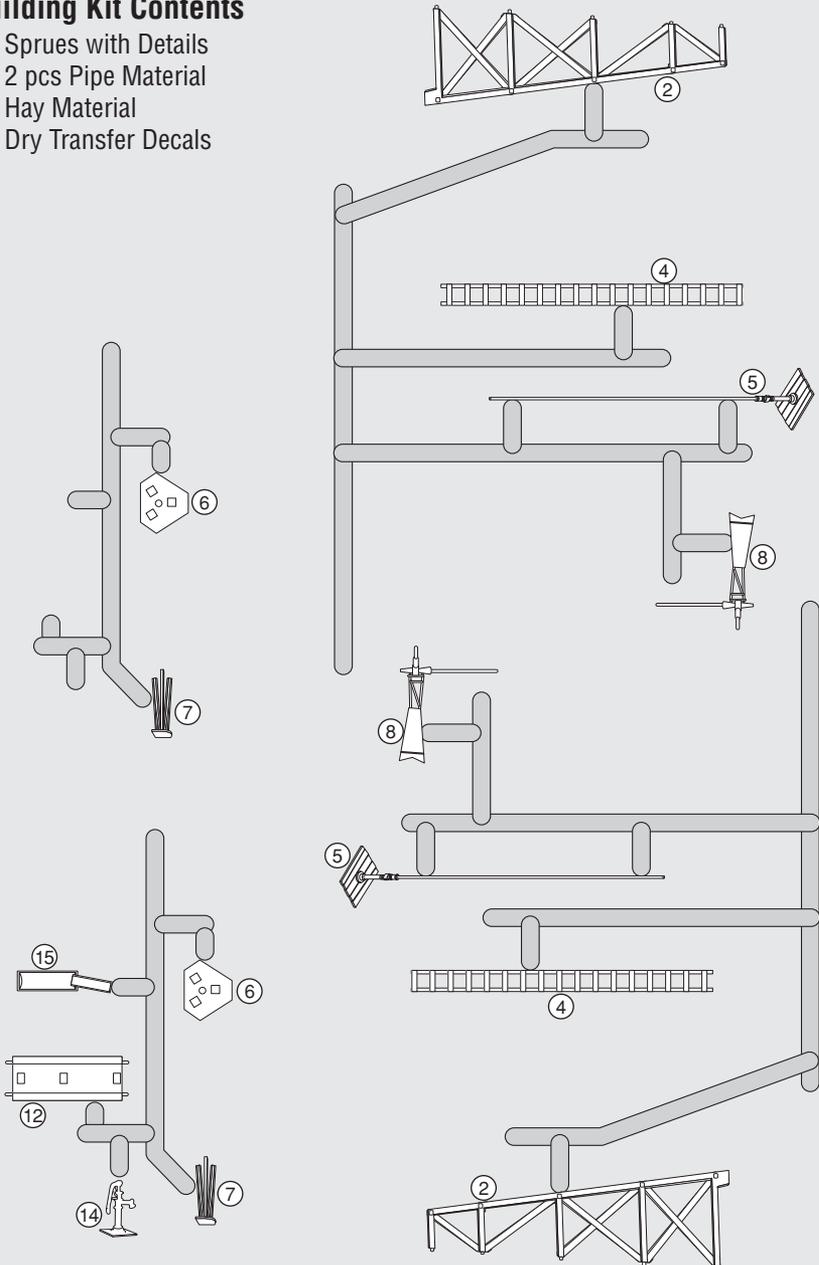
We make every effort to ensure our kits are manufactured complete. However, if this kit is missing a part, please make note of the kit name, number and missing part. Contact the Sales and Customer Service Department at PO Box 98, Linn Creek, MO 65052, 573-346-5555 or sales@woodlandscenics.com.

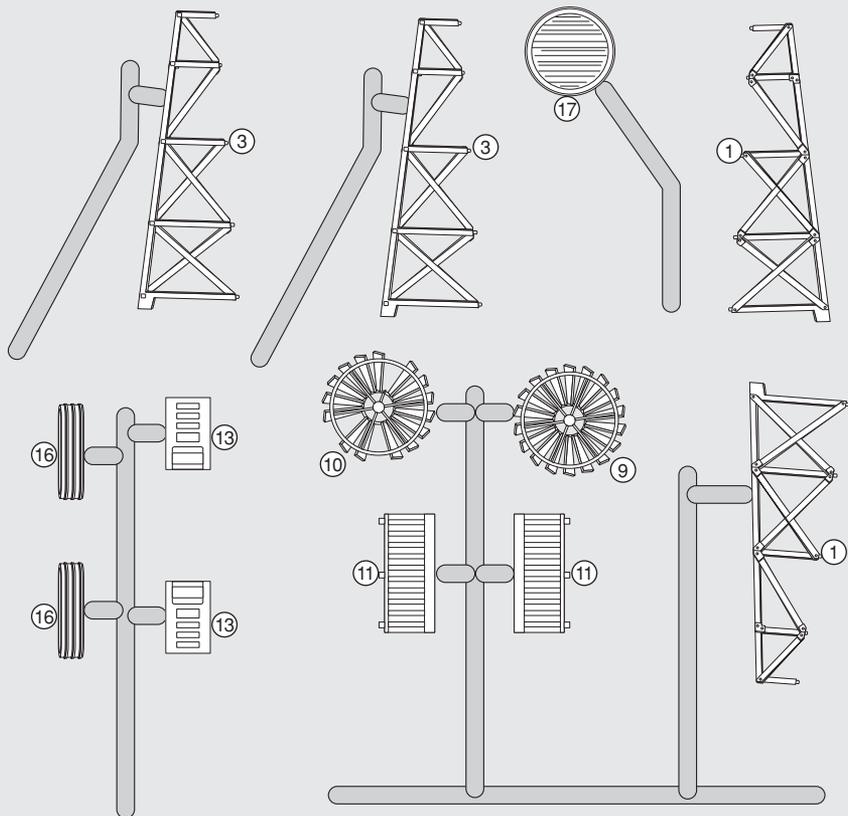
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WINDMILLS

Building Kit Contents

- Sprues with Details
- 2 pcs Pipe Material
- Hay Material
- Dry Transfer Decals





Before You Begin

- Read through instructions.
- Collect additional supplies.
- Check kit contents and verify Details.
- Cover project area with newspaper.

TIP! To assist in assembly, refer to exploded-view illustration on back of box.

Additional Needed Supplies

- | | |
|--|--|
| <input type="checkbox"/> Solvent-based Plastic Cement* | <input type="checkbox"/> Tweezers |
| <input type="checkbox"/> Cyanoacrylate Adhesive (CA glue / super glue) | <input type="checkbox"/> Scissors |
| <input type="checkbox"/> Paints (acrylic and/or enamel)* | <input type="checkbox"/> Newspaper |
| <input type="checkbox"/> Primer* | <input type="checkbox"/> Burnisher |
| <input type="checkbox"/> Painting Tools | <input type="checkbox"/> Scenic Cement™ (S191) or White Glue |
| <input type="checkbox"/> Hobby Knife / Flush Cutting Shears | <input type="checkbox"/> Needle Nose Pliers |
| <input type="checkbox"/> Fine-grade Sandpaper | |

NOTE: Always allow glue to set before moving to the next step. Plastic cement works by dissolving the surface of plastic and welding parts together. Avoid contact with detail on parts.

*Contact your local hobby shop for recommendations.

1. Prepare Building Parts and Details

- Remove mold flash from Details using a hobby knife and sandpaper (**Fig. 1a**). Do not remove Details from sprues at this time.
- Wash Details in warm, soapy water using a mild detergent. Rinse and let dry.
- Details can be left on sprues (recommended) or removed for priming and painting. Remove using a hobby knife (or flush cutting shears) and sand off parting lines (**Fig. 1b**). Details may be easier to paint on sprue. It also makes identifying them easier during assembly.
- Be careful to not remove placement posts (**Fig. 1c**).

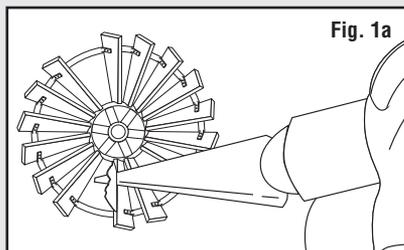


Fig. 1a

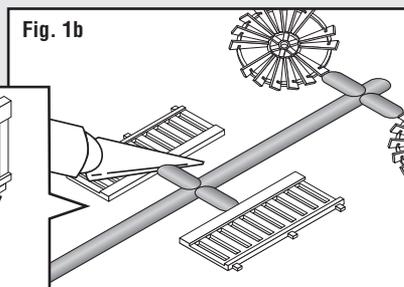


Fig. 1b

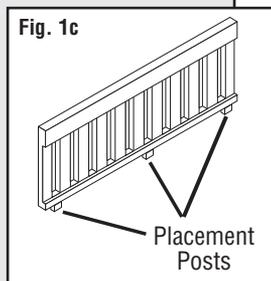


Fig. 1c

Placement Posts

2. Prime and Paint

Do not prime or paint placement posts. Some Details may be easier to paint once assembled.

- Apply a thin coat of primer and let dry.
- Paint as desired and let dry. See Tips & Techniques on pg. 6 for painting tips and weathering techniques.

TIP! To make priming and painting loose Details easier, secure them to strips of masking tape (sticky side up) attached to a piece of cardboard (**Fig. 2a and 2b**).

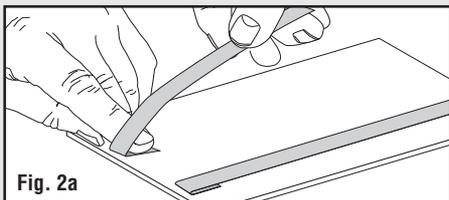


Fig. 2a

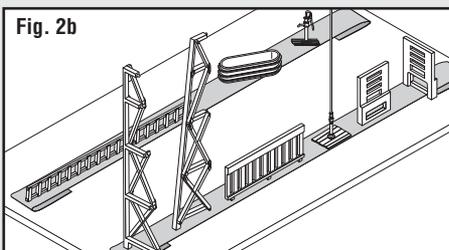


Fig. 2b

3. Apply Dry Transfer Decals

Dry Transfer Decals are included for Windmill Vanes x2 (8). Apply other Decals where desired.

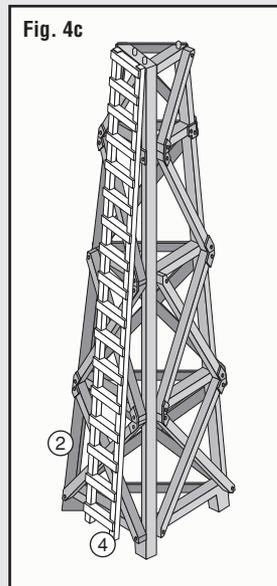
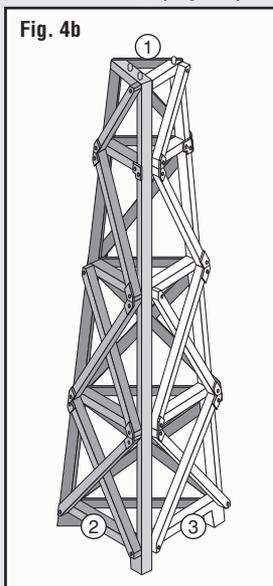
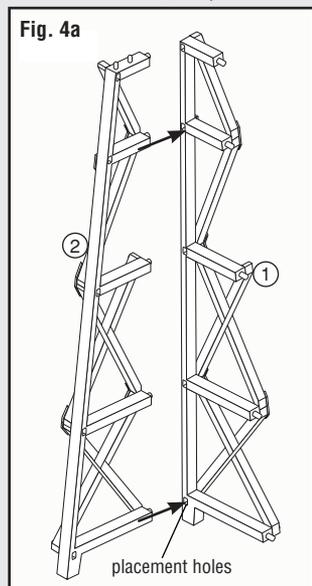
- Cut out desired Decal, leaving a slight edge. Position in desired location and avoid handling the back. Rub over entire Decal with a burnisher or dull pencil.
- Lift away carrier sheet carefully. If Decal did not transfer completely, let carrier sheet fall back in place and burnish again.
- Place backing paper over Decal and burnish again for maximum adhesion.

IMPORTANT: If Details were left on sprue while painting, remove with a hobby knife (or flush cutting shears). Sand parting lines and touch up with paint. Test fit Details before gluing. Align placement posts into placement holes for proper positioning.

4. Assemble Windmill Frames

Assemble two Windmill Frames in identical order.

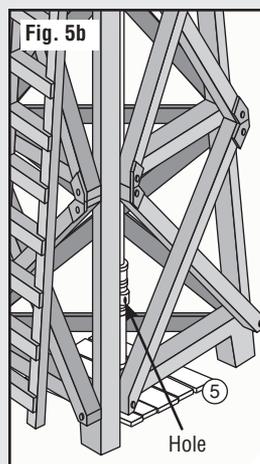
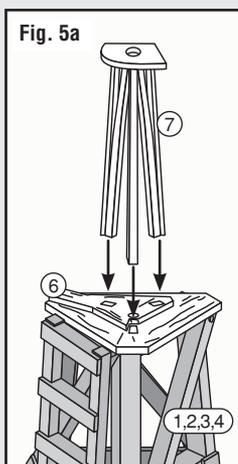
- Glue placement posts on Wood Frame ② into placement holes on Wood Frame ① (Fig. 4a). Let glue set.
- Glue posts on Wood Frame ① into holes on Wood Frame ③ and posts on Wood Frame ③ into holes on Wood Frame ② (Fig. 4b).
- Glue Ladder ④ in place on Windmill Frame ② (Fig. 4c).



5. Complete Both Windmills

The two Windmills are identical, except for the Wind Wheels. There is an undamaged Wind Wheel ⑨ and a weathered Wind Wheel ⑩.

- Glue Platform ⑥ to Wood Frame Assembly ①,2,3,4. Glue Upper Frame ⑦ to Platform ⑥ (Fig. 5a).
- Position Water Pump & Pipe ⑤ through center of Wood Frame Assembly ①,2,3,4 and glue Pipe to underside of Platform ⑥. The Water Pump has a hole for the Wire (Water Pipe). Face hole in the desired direction (Fig. 5b).



5. Complete Both Windmills cont.

- Insert Weather Vane & Gearbox (8) into Upper Frame (7) (Fig. 5c). For rotating Weather Vane, do not glue.
- Slide Wind Wheel (9) onto Weather Vane & Gearbox (8) and Damaged Wind Wheel (10) onto second Weather Vane & Gearbox (8) (Fig. 5d).
- Snip off tip of Weather Vane post and crimp with needle nose pliers to hold Wind Wheels in place (Fig. 5e).
- Use cyanoacrylate adhesive (super glue) to glue Wire into hole in Water Pump (5) (Fig. 5f).

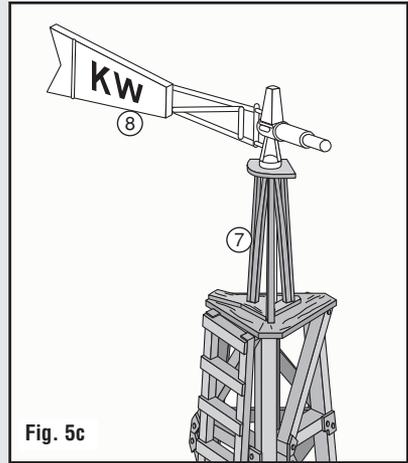


Fig. 5c

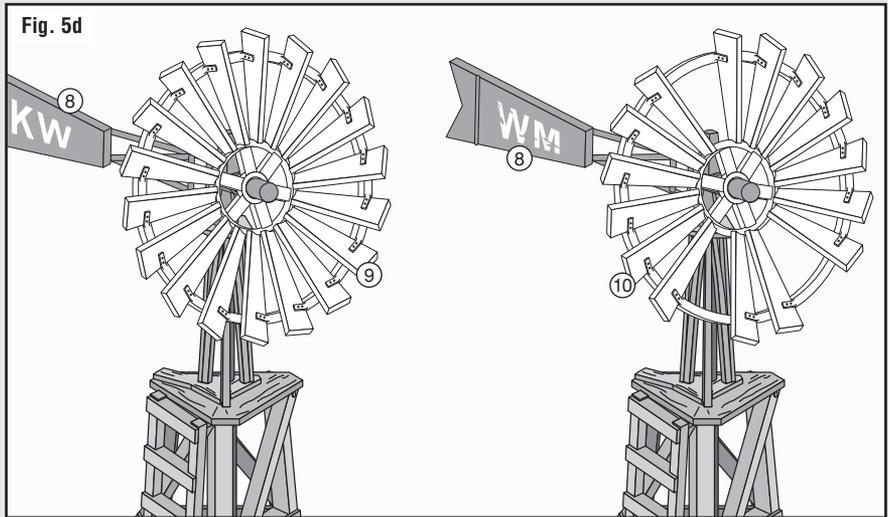


Fig. 5d

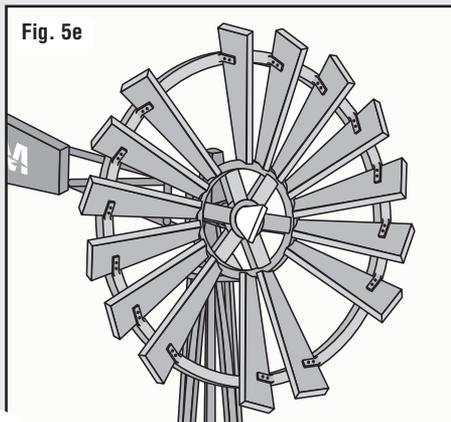


Fig. 5e

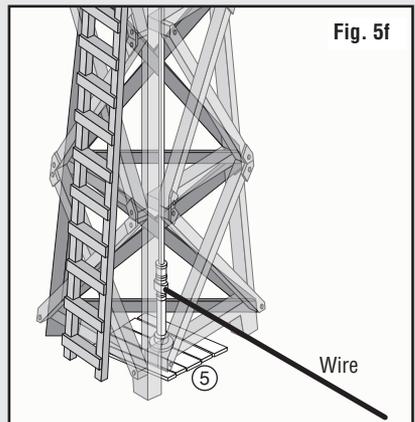
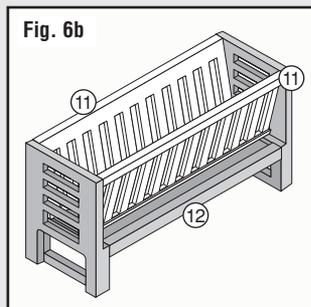
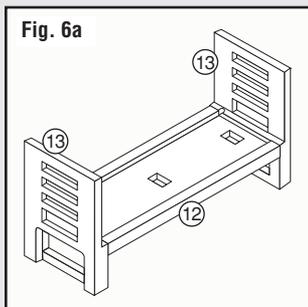


Fig. 5f

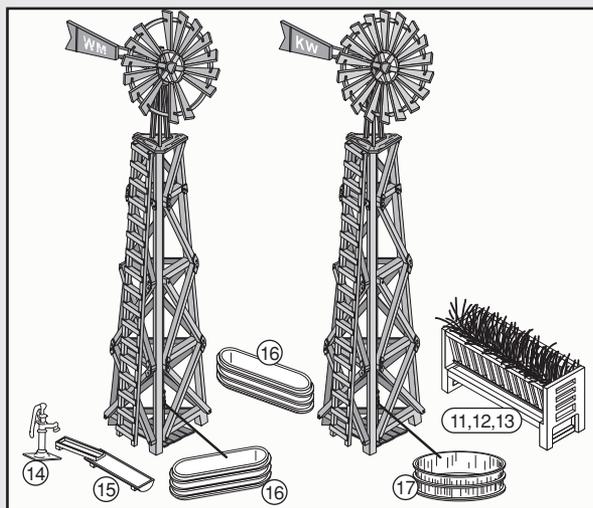
6. Assemble Hay Rack

- Glue Hay Rack Ends x2 (13) to Hay Rack Base (12) (Fig. 6a).
- Attach Hay Rack Sides x2 (11) to Hayrack Base (12) at an angle (Fig. 6b).
- Use white glue to glue Hay Material into Hay Rack.



7. Extra Details

- Place Hay Rack (11,12,13), Hand Pump (14), Two-piece Trough (15), Oblong Stock Tanks x2 (16) and Round Stock Tank (17) where desired around Windmills.



Tips and Techniques

Painting

Airbrush or Hand-brush: Use enamel (solvent-based) or acrylic (water-soluble) flat finish paint.

Aerosol: Use flat finish spray paint.

Weathering Techniques

Weathering Wash: Add a realistic weathered look (formula follows). Lay structure flat so wash spreads evenly. Using a paintbrush, dab on small amounts of Weathering Wash until desired look is achieved. Sponge off excess.

Formula: Mix 1-part acrylic paint (color suggestion: earth-tone shade), 12-parts rubbing alcohol, 8-parts water and 1 drop liquid dish soap.

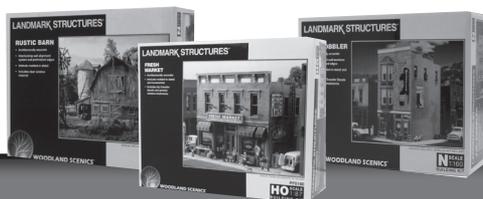
Airbrush: Spray thinned flat black paint lightly onto select areas (color suggestion: grimy black). Add more where discoloration occurs naturally (near windows, roof details, etc.).

Chalk: Rub a dark color of pastel chalk on sandpaper to create chalk dust (color suggestion: gray, black, brown, etc.). Using a paintbrush, dab chalk dust where discoloration can occur.

Decals: Age Decals by scoring and chipping with a hobby knife.

Look for these other N scale Landmark Structures Building Kits at your local hobby shop.

PF5200 Fresh Market
PF5203 Sonny's Super Service
PF5204 Sicken Tire Company
PF5206 Country Cottage
PF5207 Woodland Station
PF5214 Davenport Department Store



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