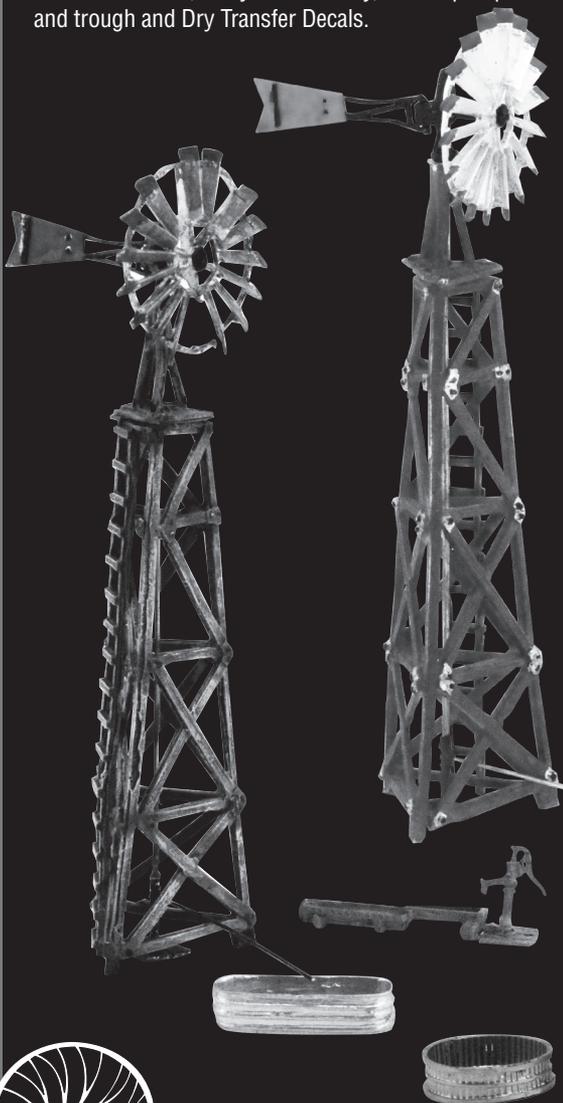


# LANDMARK STRUCTURES®

**HO** SCALE  
1:87  
BUILDING KIT

## WINDMILLS PF5192

Build two windmills on wood towers. One of them features busted blades; the other is in good repair. Accessories include two oblong stock tanks, a round stock tank, a hayrack with hay, a hand pump and trough and Dry Transfer Decals.

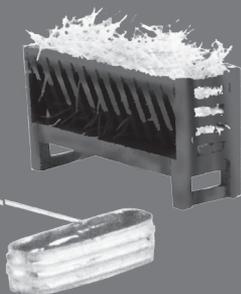


### MODELING AND CARE INFORMATION

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 clean up.

**CAUTION**  
Cutting tools recommended.  
Use with care.

This item is not a Children's Product and is not intended for use by Children.



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 and contact the Woodland Scenics Sales and Customer Service Department at PO Box 98, Linn Creek, MO 65052, 573-346-5555 or [sales@woodlandscenics.com](mailto:sales@woodlandscenics.com).



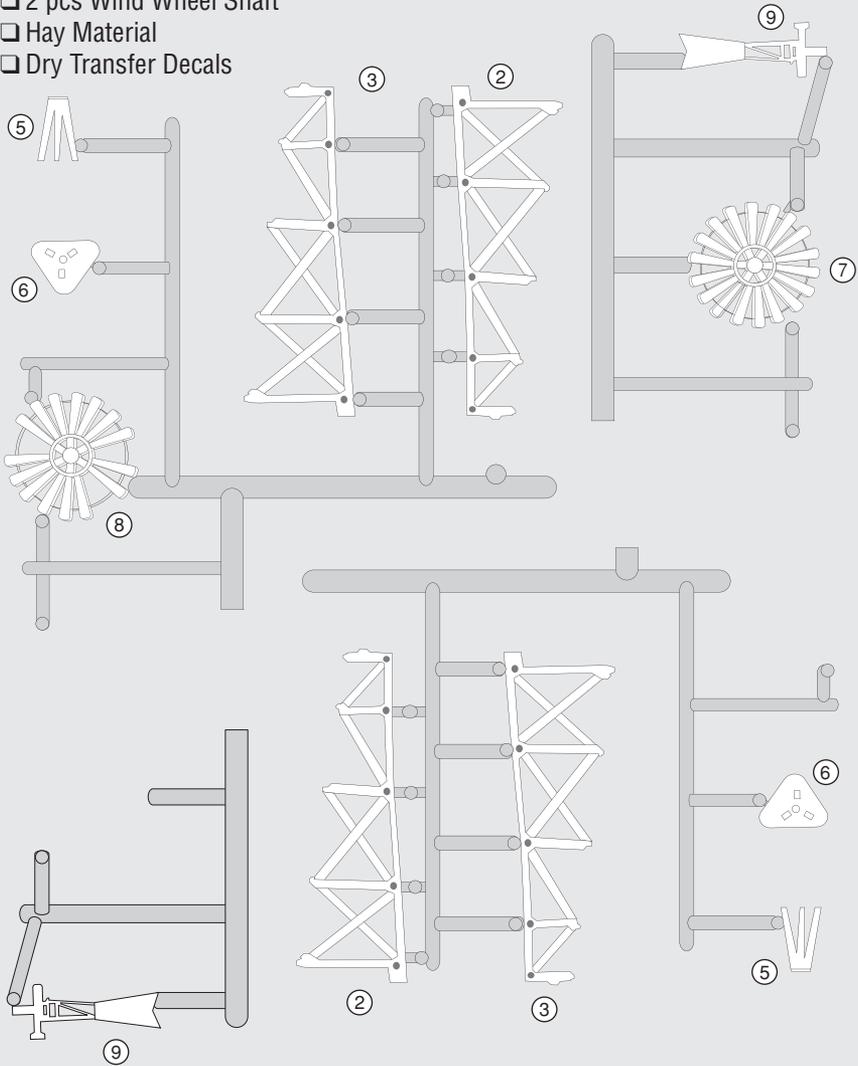
**WOODLAND SCENICS®**

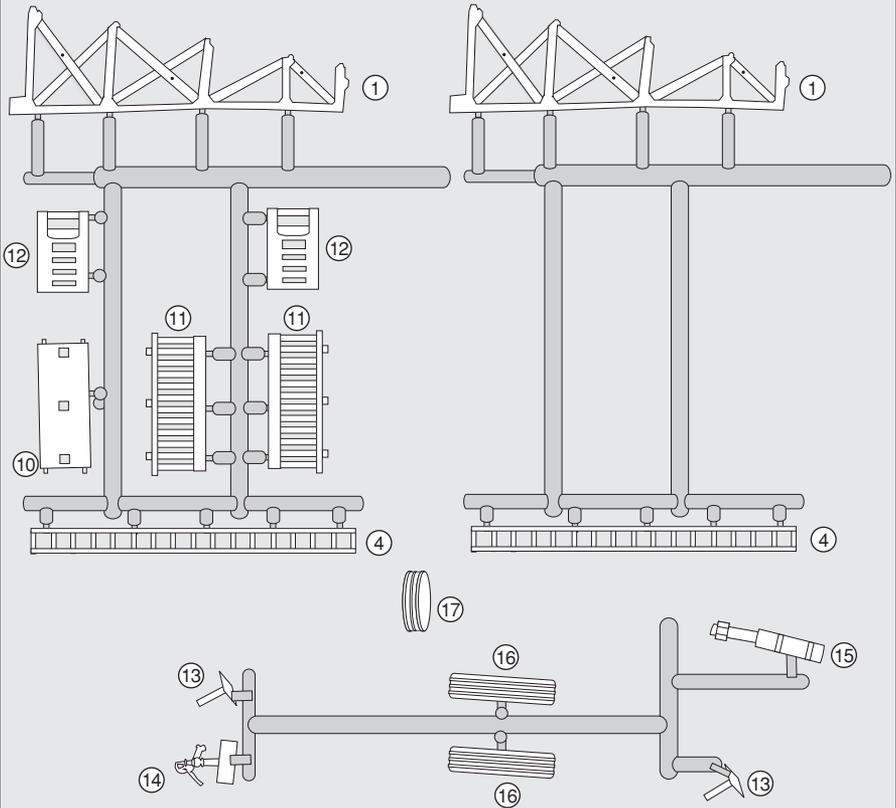
XP5192INST F10 ©2013 O CO  
Printed by a certified Green Printer

## WINDMILLS

### Building Kit Contents

- Sprues with Details
- 2 pcs Water Pipe Material (Long)
- 2 pcs Water Pipe Material (Short)
- 2 pcs Pin
- 2 pcs Wind Wheel Shaft
- 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"/> Fine-Grade Sandpaper |
| <input type="checkbox"/> Paints (acrylic and/or enamel)*             | <input type="checkbox"/> White Glue           |
| <input type="checkbox"/> Primer*                                     | <input type="checkbox"/> Tweezers             |
| <input type="checkbox"/> Cyanoacrylate Adhesive (CA glue/super glue) | <input type="checkbox"/> Scissors             |
| <input type="checkbox"/> Painting Tools                              | <input type="checkbox"/> Burnisher            |
| <input type="checkbox"/> Hobby Knife/Flush Cutting Shears            | <input type="checkbox"/> Newspaper            |

**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. Building and Detail Preparation

- 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 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 parts easier during assembly.
- Do not remove placement posts (**Fig. 1c**).

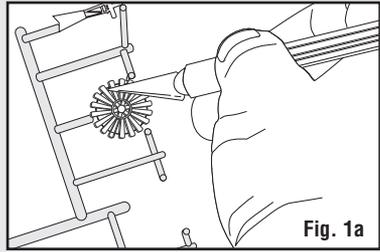


Fig. 1a

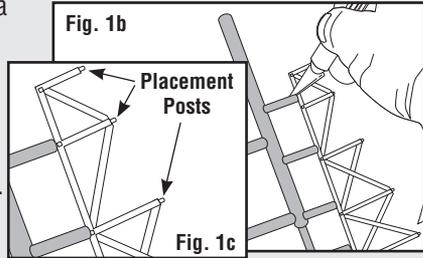


Fig. 1b

Fig. 1c

## 2. Prime and Paint

Do not prime or paint placement posts.

- 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**).

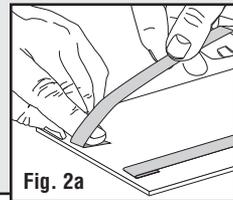


Fig. 2a

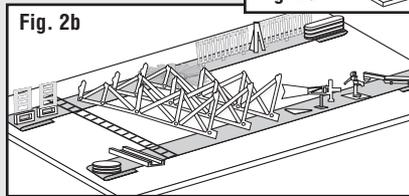
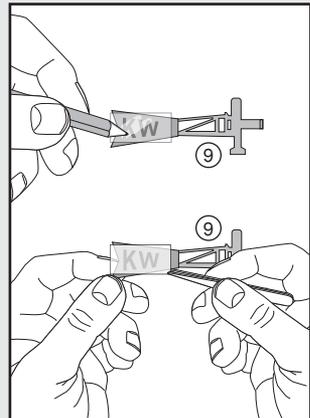


Fig. 2b

## 3. Apply Dry Transfer Decals

Dry Transfer Decals are included for Windmill Vanes x2 ⑨.

- 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.

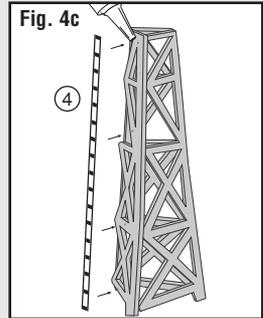
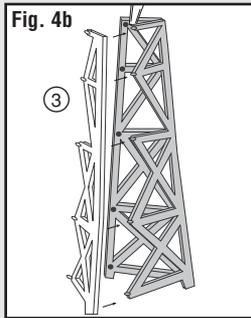
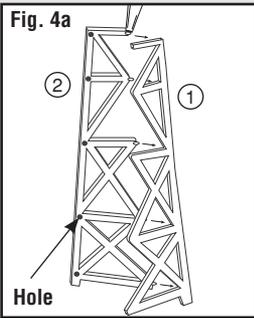


## IMPORTANT

Windmill Building Details have specific hole and post configurations to assist in assembly. Test-fit and verify Detail placement before gluing. If Details were left on sprue while painting, remove using a hobby knife (or flush cutting shears). Sand parting lines and touch-up with paint. Sand paint from glue points.

## 4. Assemble Both Windmill Frames

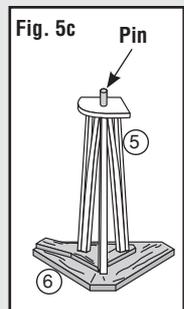
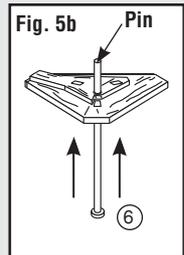
- Assemble the two Windmill Frames in identical order.
- Glue the placement posts on Wood Frame ② into holes on Wood Frame ① (Fig. 4a). Let glue set.
- Glue posts on Wood Frame ① into holes on Wood Frame ③ and posts on Wood Frame ③ into holes on Wood Frame ② (Fig. 4b).
- Glue Ladder ④ into place on Windmill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



## 5. Complete Both Windmills

**NOTE:** Use super glue to attach Pipe Material and Pins to Windmill Details. The two Windmills are identical, except for the Wind Wheels. There is an undamaged Wind Wheel ⑦ and a weathered Wind Wheel ⑧.

- Glue long piece of Pipe Material to Water Pump ⑬ (Fig. 5a).
- Insert Pin through underside of Platform ⑥ and glue in place (Fig. 5b).
- Glue Frame Top ⑤ to Platform ⑥, making sure Pin extends through hole in Frame Top (Fig. 5c).



## 5. Complete Both Windmills (cont.)

- Glue Windmill Top Assembly (5,6,Pin) to Windmill Frame.
- Glue top of long Pipe Material to underside of Platform (6) (Fig. 5d). **NOTE:** The Water Pump (13) has a hole where the short Water Pipe will be inserted. Face hole desired direction.
- Glue Wind Wheel (7) to Gearbox/Vane (9) (Fig. 5e). Glue weathered Wind Wheel (8) to second Gearbox/Vane (9).
- **OPTION:** For spinning Wind Wheels, poke a hole through center of Wind Wheels. Insert Wind Wheel Shaft through the face of the Wind Wheel and press the shaft into the Gearbox/Vane (9) (Fig. 5f).
- Slide Gearbox Assembly onto Wire (Fig. 5g). Let rotate freely or glue in place.
- Glue short Pipe Material into hole in Pump (9) (Fig. 5h).

Fig. 5d

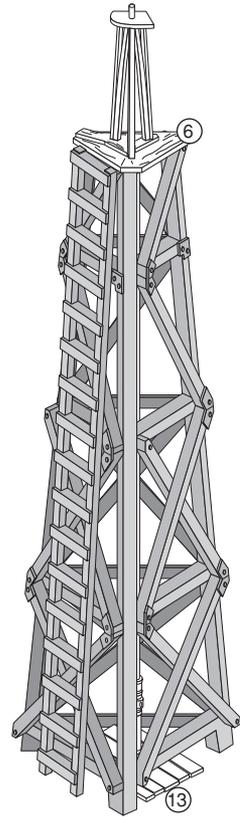


Fig. 5e

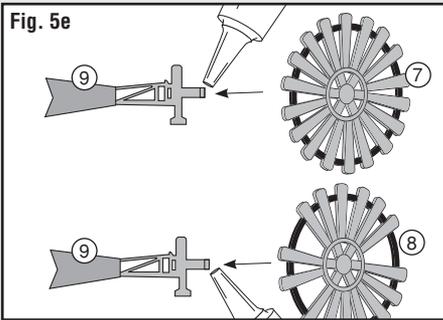


Fig. 5f

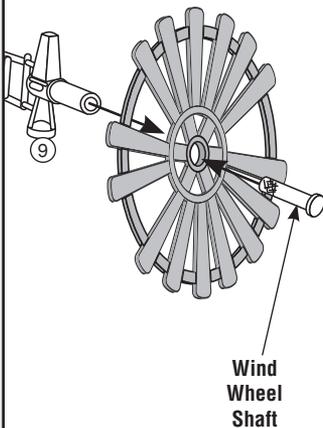


Fig. 5g

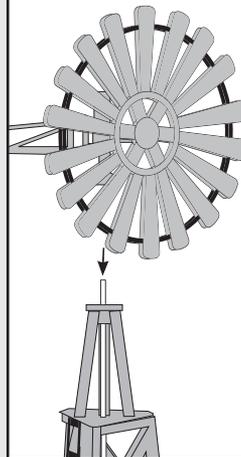
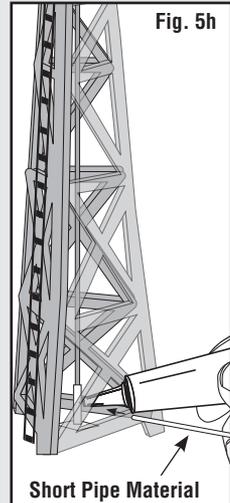
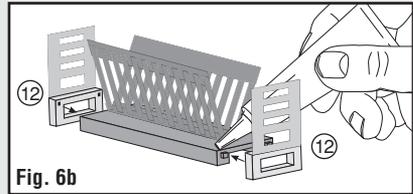
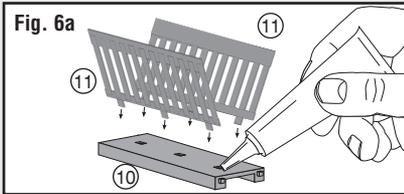


Fig. 5h



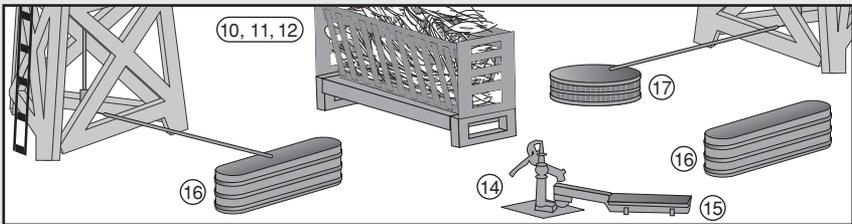
## 6. Assemble Hayrack

- Glue Hayrack Sides x2 (11) to Hayrack Base (10) at an angle (Fig. 6a).
- Attach Hayrack Ends x2 (12) to Assembly (Fig. 6b).
- Use white glue to glue Hay Material inside Hayrack.



## 7. Extra Details

- Place Hayrack (10, 11, 12), 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 unique 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), 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.

**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 HO Scale Landmark Structures Building Kits at your Local Hobby Shop



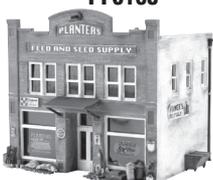
**Fresh Market**  
PF5180



**Country Cottage**  
PF5186



**Public Pavillion**  
PF5189



**Planters Feed and  
Seed Supply** PF5181



**Woodland Station**  
PF5187



**O'Leary Dairy  
Distribution** PF5185



**Main Street  
Mercantile** PF5182



**Sicken Tire Company**  
PF5184



**Country Church**  
PF5191



**Sonny's Super Service**  
PF5183



**D's Diner**  
PF5188



**Rustic Barn**  
PF5190