



HO Structure Kit COLUMBIA FEED MILL 933-3090

Thanks for purchasing this Cornerstone kit. All parts are styrene plastic, so use compatible paint and glue to assemble and finish your model. Please study the drawings and read these instructions before starting construction. If you wish to paint your model, you may find it easier to do before starting assembly. Bricks are natural "earth colors" with light or dark mortar, while wooden windows and doors can be painted any suitable trim color. PLEASE NOTE: This kit can be built as two separate buildings, or one larger structure. The "wooden" storage building may also be installed at an angle to fit inside a curved siding.

When Americans relied on horses instead of horsepower, the local feed mill was a vital business in rural areas and large cities. Here, locally grown grain could be brought in, or delivered by the boxcar load, and ground for use as animal feed; some grains could be fed directly, others like corn, required the hard outer hull be cracked or ground so animals could digest them. Once ground, mills would also bag feed so it could easily be handled and stored. From the late 1800s, brick became a popular choice for building material. While most feed mills were simple, brick projected strength and durability that impressed customers. It also reduced fire danger, kept the interior drier to reduce spoilage of stored grain, and helped keep rodents and insects out. The actual grinding machinery was located below ground, and gravity did most of the hard work of unloading wagons or boxcars by hand. Power for the machinery was originally supplied by water, but by the early 20th century, small lighting plants were available to generate electrical power as needed. Inside the mill building itself, numerous chutes directed ground grain into bins and bagging machinery. The slow decline of the feed mill began during WWI, but with the shift to an industrial economy, farming became a more specialized operation. Studies of animal nutrition in the 1940s and 50s produced better blends of feed and minerals to increase production of meat, eggs and milk. Many feed mills purchased trucked-mounted mixer mills to offer custom feed grinding on the farm. Today's feed mill is still commonly found in rural and city areas, often supplying specialty pet foods, horse supplies, bird food and various lawn and garden products. Suitable for almost any time period, your new feed mill is a perfect starting point for a busy trackside business by itself or as part of a larger operation that includes a grain elevator, farm supply store, and coal or oil sales. For additional details, see your local hobby shop, check out the latest Walther's Model Railroad Reference Manual, or visit us online at walthers.com.

MAIN BUILDING

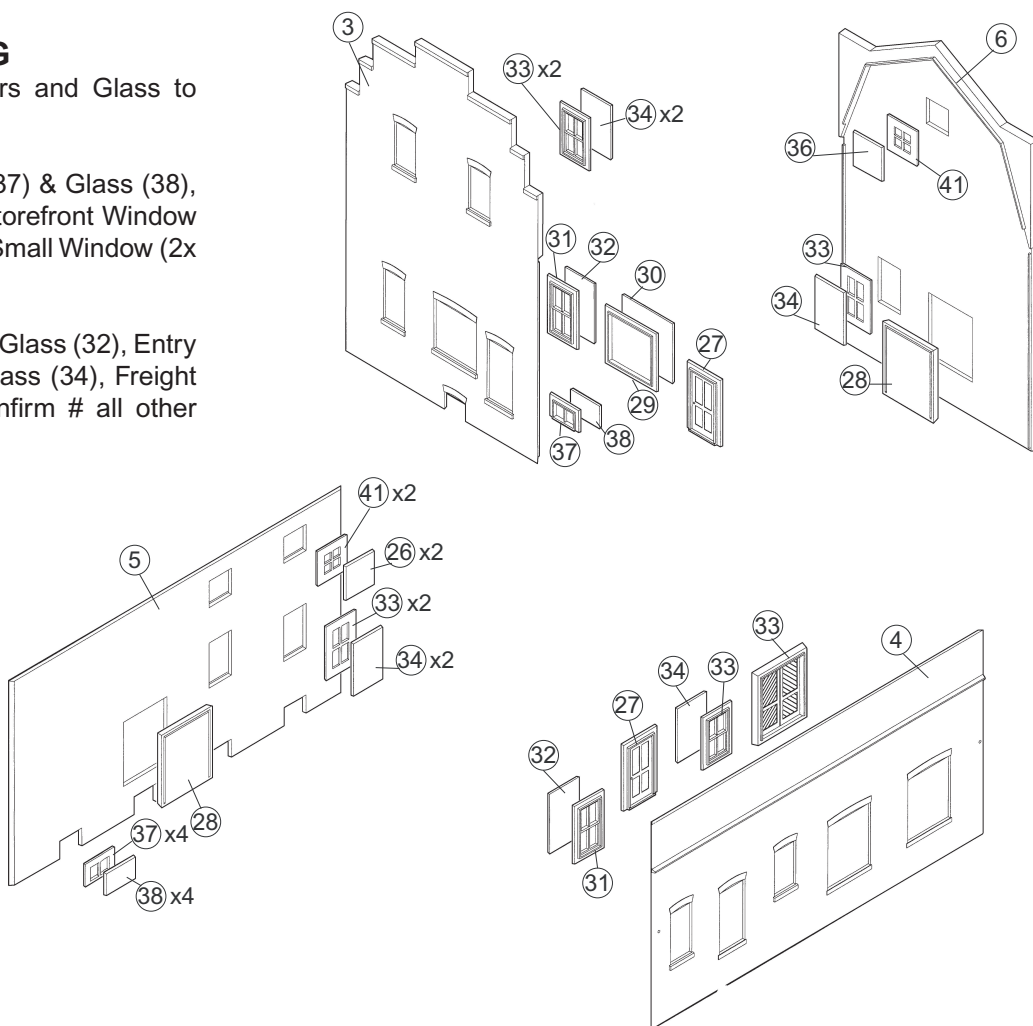
1) Begin by gluing Windows, Doors and Glass to Walls as shown:

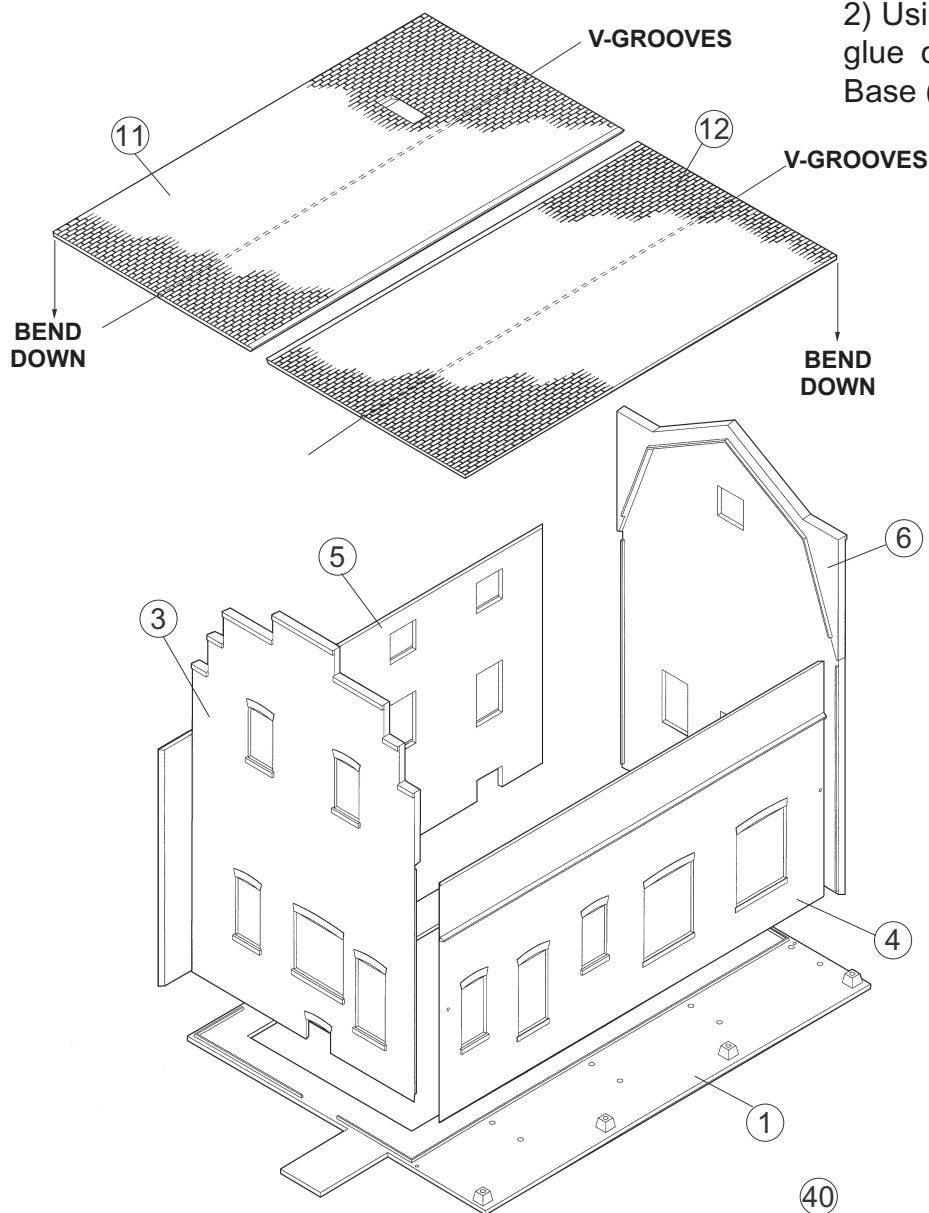
Front Wall (3): Basement Window (37) & Glass (38), Large Window (31 & Glass (32), Storefront Window (30) & Glass (29), Entry Door (27), Small Window (2x 33) & Glass (2x 34).

Right Wall (4): Large Window (31) & Glass (32), Entry Door (27), Small Window (33) & Glass (34), Freight Door (2x 28). #33 on sketch - confirm # all other freight doors are #33

Left Wall (5): Basement Window (4x 37) & Glass (4x 38), Freight Door (28), Windows (2x 33) & Glass (2x 34), Small Upper Windows (2x 41) & Glass (2x 26).

Back Wall (6): Small Window (33) & Glass (34), Freight Door (28), Small Upper Window (41) & Glass (36).





2) Using raised ridges to help with alignment, glue completed Walls (3, 4, 5, 6) to Large Base (1)

3) NOTE: Before installing the Right (12) and Left Roof Half (12): with your hobby knife pointing away from you, carefully score the V-groove molded on the back of each Roof Half once or twice to make it easier to bend. Carefully bend each Roof Half inward, and test fit to the ridges on the inside of the End Walls (3, 6). When satisfied with the fit, glue in place, holding until glue dries.

4) Glue Railings (2x 16) to mounting points in Front Steps (15). Glue completed Steps to base pad in front of Entry Door.

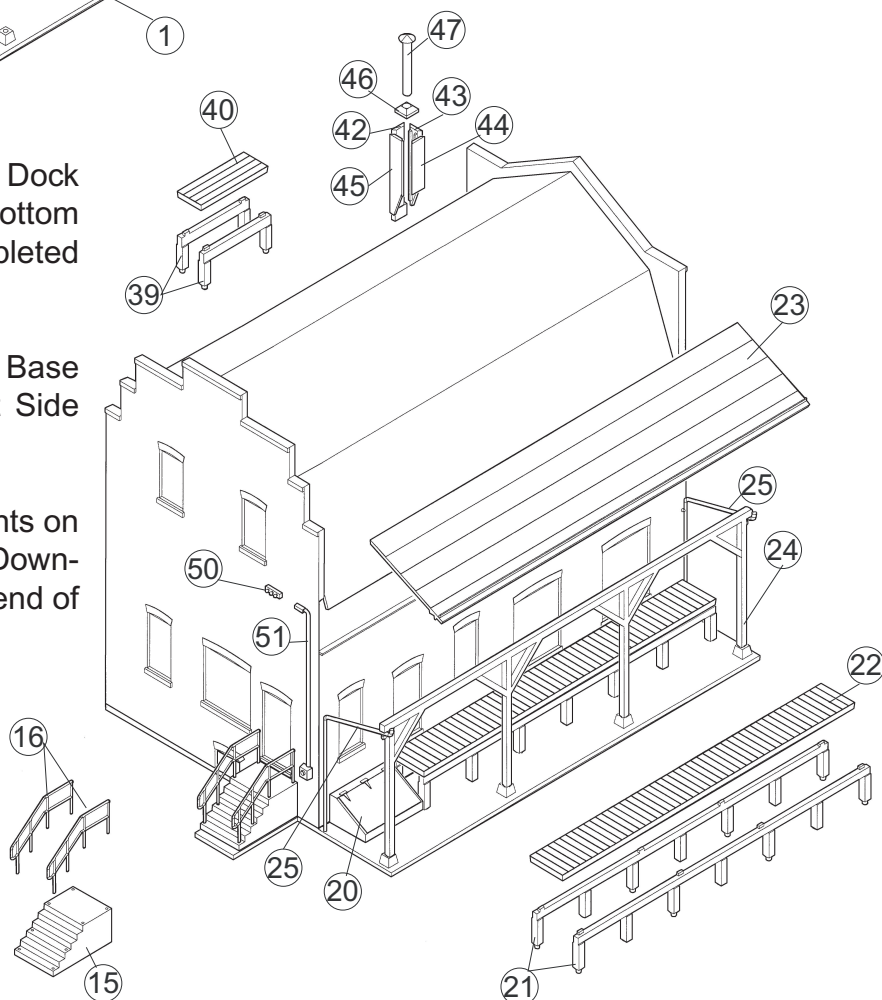
5) Make sure protrusions on tops of Dock Supports (2x 39) face inward, and glue to bottom of Dock Platform (40). Glue completed dock to mounting points on Large Base, in front of Freight Door.

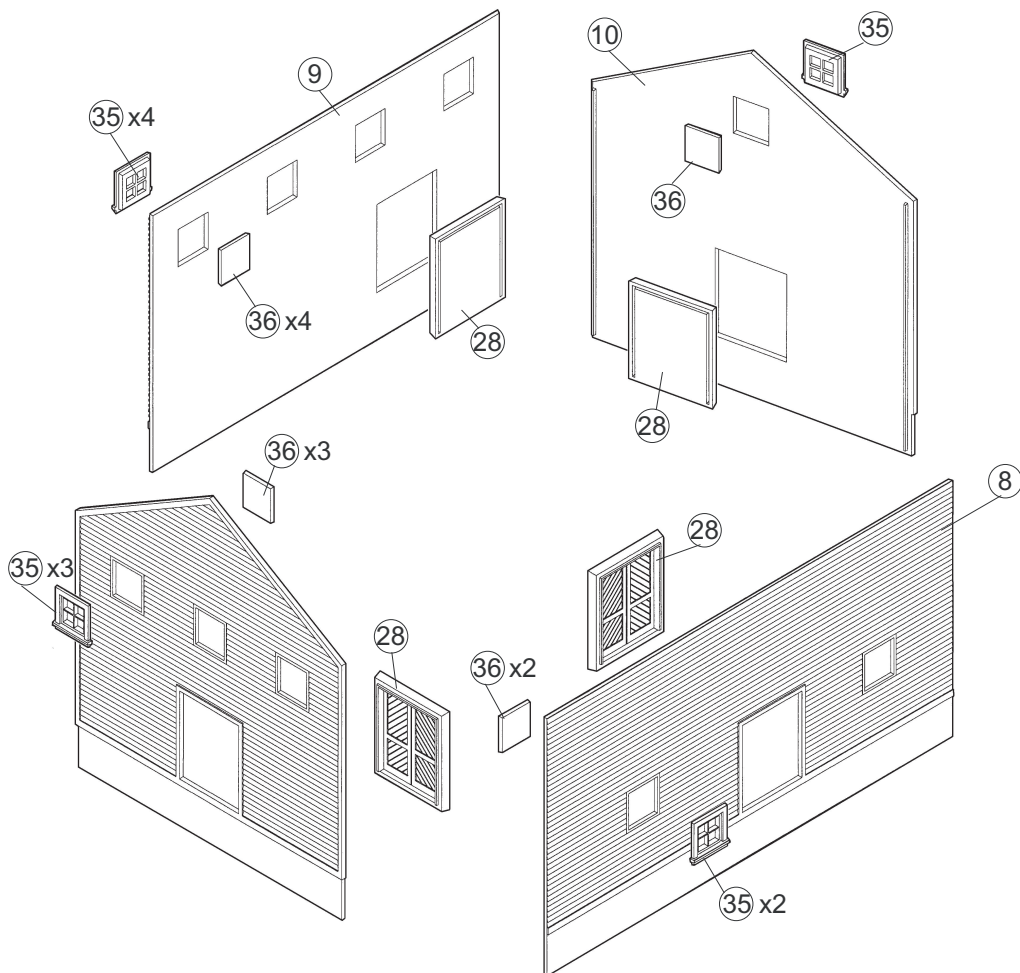
6) Make sure protrusions on tops of Long Dock Supports (2x 21) face inward, and glue to bottom of Long Dock Platform (22). Glue completed dock to mounting points on Base.

7) Glue Receiving Hopper (20) to Large Base next to Long Dock and against the Right Side Wall.

8) Glue Roof Support (24) to mounting points on supports molded on Large Base. Glue Downspouts (2x 25) to mounting points at each end of Large Base, against the Right Side Wall and through openings in Roof Support. Glue Overhang Roof (23) to Right Side Wall and Roof Support.

9) Glue Chimney Walls (42, 43, 44, 45) together. Glue Chimney Cap (46) to Chimney, and glue Vent Pipe (47) to Chimney Cap. Glue completed Chimney to mounting point in Left Roof Half.





WOODEN STORAGE BUILDING

This kit can be assembled as two freestanding buildings (Figure 1) or one large structure. For a single building, choose which End Wall (7 or 10) will attach to the main building, and note the optional placement of the Long (8) and Short Wooden Wall (9) as shown in figures 2 & 3.

1) Begin by gluing Windows, Doors and Glass to Walls as shown:

Long Side Wall (8): Small Window (35 & Glass (36), Freight Door (28).

Short Side Wall (9): Small Windows (4x 35 & Glass (4x 36), Freight Door (28).

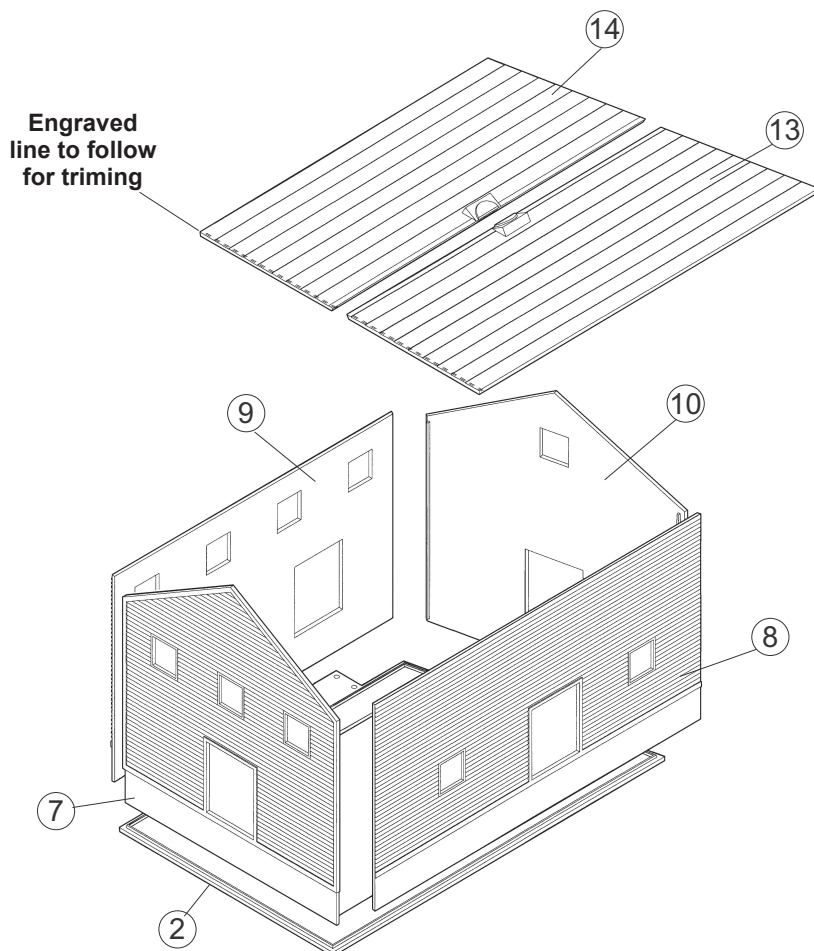
PLEASE NOTE:

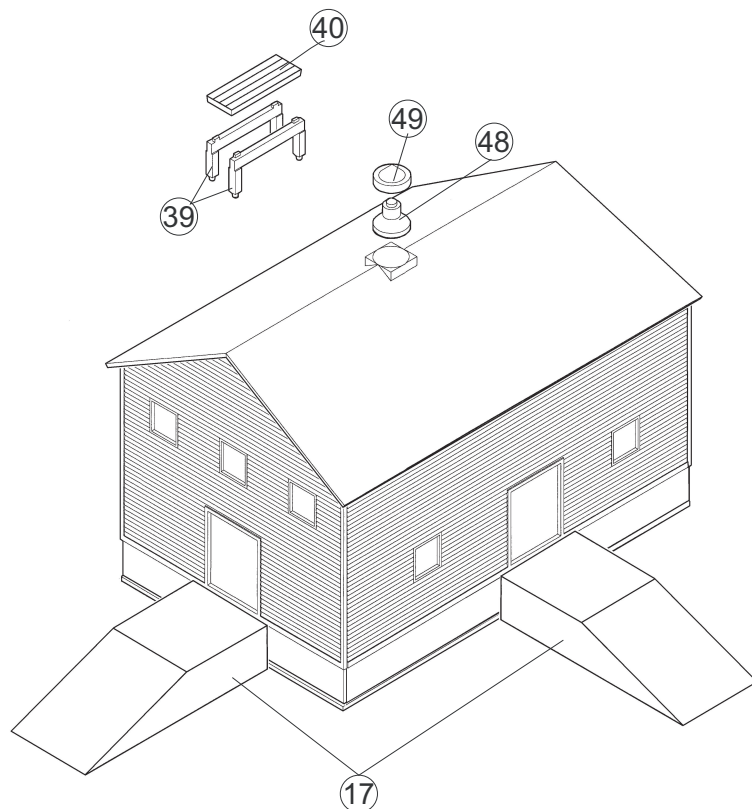
If you are building a single large structure, do not install Windows or Doors in the End Wall that attaches to the Main Building. For two separate structures, install Windows and Glass as noted:

End Wall (7): Small Windows (3x 35 & Glass (3x 36), Freight Door (28).

End Wall (10): Small Window (35 & Glass (36), Freight Door (28).

2) Using raised ridges to help with alignment, glue completed Walls (7, 8, 9, 10) to Small Base (2).





3) PLEASE NOTE the following steps for installing the Storage Building Roof Halves (13, 14):

For a single large structure:

If following Figure 2: Trim off the roof overhang using the molded cut lines on the bottom of Storage Building Roof Halves (13, 14).

If following Figure 3: Carefully trim the plain ends (without molded cut lines) of both Roof Halves so they're flush with the End Wall.

For a freestanding structure: Glue Storage Building Roof Halves (13, 14) in place.

4) Make sure that the protrusions on the tops of the Dock Supports (2x 39) are facing inward, and glue to bottom of Dock Platform (40). Glue completed dock to mounting points on Small Base, in front of Freight Door.

5) Glue Vent Base (48) to Vent (49) and to mounting point on Roof.

6) Loading Ramps (2x 17) are optional and can be set in place or glued alongside any of the Freight Doors as desired.

POSSIBLE STRUCTURE POSITIONS

figure 1

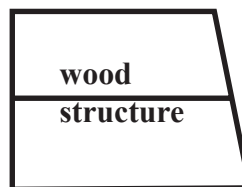
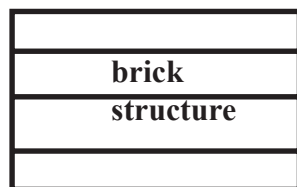


figure 2

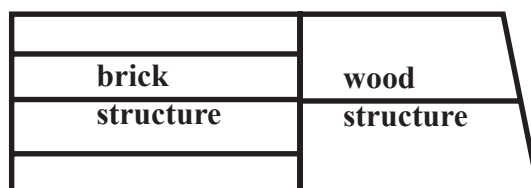
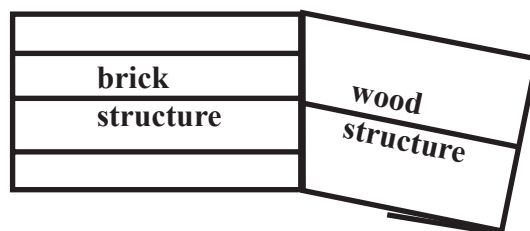


figure 3



DECALING

1. After cutting out the decal, dip in water for 10 seconds, remove and let stand for 1 minute. Slide decal onto surface, position and then blot off any excess water.
2. Lightly brush Micro Sol® on top. This will soften the decal allowing it to conform to irregular surfaces. DO NOT TOUCH DECAL while wet!
3. When the decal is thoroughly dry, check for any trapped air bubbles. Prick them with the point of a small pin or hobby knife blade and apply more Micro Sol®.