PARTS LIST

1. Body (a)
2. Underframe (b)
3. Wood Deck Inserts (c)
4. Detail Sprue:
   - 4 Permanent Tie-down Bracket (d)
   - Brake System Assembly (e)
   - Air Tank & Lines (f)
   - Long Train Line (g)
   - Short Train Line (h)
   - Train Line Extension With Bracket (i)
   - 2 Train Line Extension (j)
   - 2 Glad Hand (k)
   - 4 Stirrup (l)
   - 4 End Grab Iron (m)
   - 4 Side Grab Iron (n)
   - Brake Wheel (o)
   - Brake Wheel Rod (p)
   - Upper Brake Wheel Mount (q)
   - Lower Brake Wheel Mount (r)
   - 2 Coupler Box Cover (s)
   - 2 Alternate Glad Hand (kk)
5. Truck Sprue:
   - 4 Truck Sideframe (t)
   - 2 Bolster (u)
   - Brake Beam Sprue (v)
6. Wheel Pack:
   - 4 Wheelset (w)
   - 2 Retaining Screw (x)
   - Moveable Tie-down Bracket (y)
   - Tie-down Chain (z)

RECOMMENDED TOOLS

X-acto Knife Single Edge Razor Blade Fine Clippers Small File or Emery Board
Pin Vice Small Drill Set Liquid Styrene Cement Small Phillips Screwdriver

Please read the instructions, study the drawings and parts before assembling them. Some of the detail parts are delicate. The best way to remove them from the sprue is with a single edge safety razor blade or fine clippers or an X-acto knife. DO NOT ATTEMPT TO BEND, TWIST, OR BREAK OFF THE PARTS!!

Before gluing any of the parts, test fit and check for flash. When attaching small parts, use tweezers or a blade to help hold them. Only small amounts of glue are needed to affix styrene plastic.

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HO 60' WOOD DECK FLAT CAR

GENERAL INSTRUCTIONS:

Please read the instructions and study the drawings and parts before beginning assembly of this kit!! Many of the parts are delicate in order for your completed model to be as attractive and authentic as possible. DO NOT ATTEMPT TO BEND, TWIST OR BREAK PARTS FROM SPRUE. The most effective tools to use in removing parts from their sprue are an X-acto knife, fine clippers, or a single edge razor blade.

Be sure to test fit ALL PARTS before applying glue. The locators sometimes are slightly damaged in removing from the runner and must be trimmed before the locator holes will accept them. Generally very small amounts of glue are needed to affix styrene parts, so we recommend that glue be used sparingly. Also, when locator holes extend through the part, apply glue on the inside.

The connecting point between the part and the "runner" to which it is attached is called a "gate". In most cases the gates are designed to be trimmed completely flush with the part.

ASSEMBLY INSTRUCTIONS:

Step 1: Body (a) And Wood Deck Inserts (c) With Tie-Down Brackets (d)

Test fit the three wood deck inserts in the body, lightly sanding the edges if necessary to create a good fit. Before gluing them in place, insert four of the permanent tie-down brackets in the four small square holes in the two outside deck pieces. Note that they are inserted from the bottom, and that the "thin" side of each bracket should be oriented toward the center of the car so that the brackets clear the underframe stringers. The center wood insert may be installed in either direction. Facing the brake end of the car, the left wood insert has a small notch which dictates its positioning. When installing the right wood insert, make sure the center row of bolt heads is nearer to the center of the car. It is recommended that a "tacky" type of glue be used to install the wood inserts, rather than a liquid styrene cement.

Step 2: Underframe (b) and Brake Detail

The sequence used to install the brake detail is very important in order to easily put all parts in place. Reference to the underframe detail installation drawing later in the instructions should be helpful. Remove all of the brake detail parts from the detail sprue and remove any flash and the remaining portion of the gates. Using a small drill bit, clean all locator holes on the bottom of the body so they will easily accept the locators on the parts. Install the Brake System Assembly (e) using the four locator holes near the center of the car. Test fit the parts before gluing. Be sure that the air lines leading to the center frame member from the triple valve are short enough so that they do not "bind" on the frame. Next, install the Air Tank & Lines (f) using the three locator holes provided. The last piece that should be installed at this time is the Train Line Extension With Bracket (i) using the locator hole on the mount near the air cylinder. Lightly glue the line to the frame members that it crosses.

The Underframe may now be glued in place. If you plan to put a small amount of weight in the open area in the frame, be sure to do so prior to this step. The total weight of the completed car should be 5-1/8 ounces to meet NMRA standards. The unweighted model weighs approximately 7/8 ounces, and therefore 4-1/4 ounces needs to be added to the model to bring it up to NMRA standard weight. The void in the underframe will accommodate approximately 1/2 ounce of weight, so the remainder must be added in the form of a load.

Three of the frame cross members on the triple valve side of the underbody must pass under the air lines. (Refer to drawing). The most difficult of these to get in place is the center member which passes under the air line between the triple valve and the brake cylinder. Test fit the underframe, and glue in place. The parts remaining to be installed on the underside of the car are the Long Train Line (g), the Short Train Line (h), and the two Train Line Extensions (j). Most of the cars of this type will use the curved train line extensions, which place the Glad Hands (k) adjacent to the coupler boxes. If you are building a car for which the prototype has glad hands near the outer edge of the car body, use the Alternate Glad Hands (kk) in place of the glad hands and curved train line extensions mentioned above. When installing the curved train line extensions, the locator on the straight end is placed in the locator hole nearest the glad hand locator hole. Test fit these pieces and glue in place. The short train line is an extension of the train line extension on the brake end of the car. Trim the line near the locator so that it mates with the train line extension when the locator is placed in the locator hole provided. The other end of the short train line terminates in the groove on the first large frame cross member in back of the bolster. The long train line locates in the same position on the other side of the underbody of the car, and must be threaded through the grooves in the cross members near the center of the car. When these two pieces are in place, glue the locators in the locator holes, and lightly glue the lines to some of the frame members which they cross to hold them in place. It is suggested that the glad hands be installed later in the assembly sequence in order to minimize damage to them.

Step 3: Stirrups (l) And Grab Irons

Remove the stirrups, Side Grab Irons (n), and End Grab Irons (m) from the detail sprue and clean any remaining portion of the gates from them. Glue them in place in the locator holes provided as shown in the drawing.

Step 4: Brake Wheel (o), Brake Wheel Rod (p), Upper Brake Wheel Mount (q), and Lower Brake Wheel Mount (r)

Install the upper and lower brake wheel mounts using the locator pins on the parts and the locator holes in the brake end of the car. Place the brake wheel rod in the upper mount, trimming the rod to the proper height for the prototype you are modeling. Glue the brake wheel in place on the rod.

Step 5: Glad Hands

Glue the glad hands in place using the locator holes adjacent to the coupler boxes on each end of the car.

Step 6: Couplers

Install your favorite couplers (InterMountain magnetically actuated couplers are recommended) in the coupler boxes and lightly glue the Coupler Box Lids (s) in place.

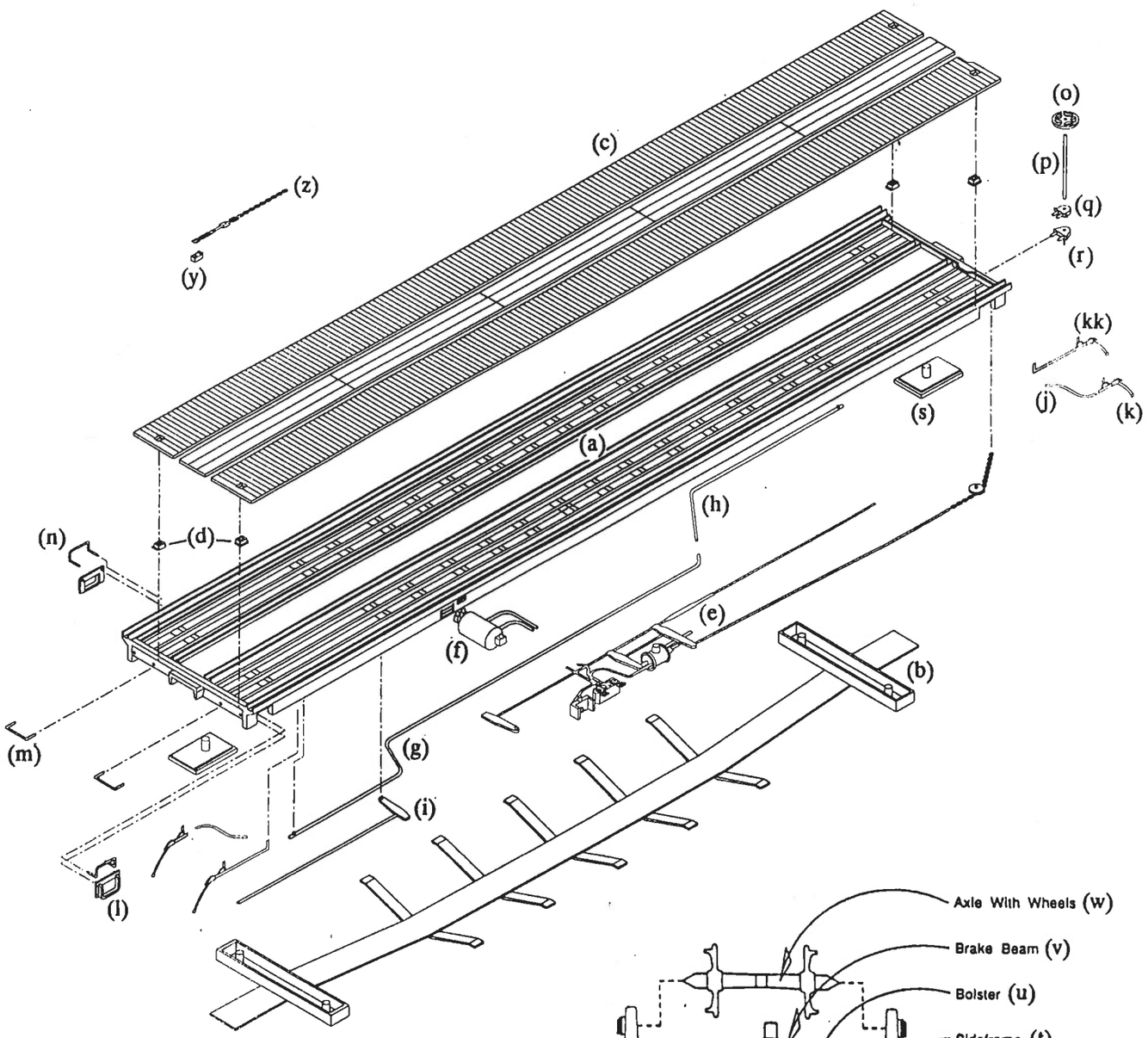
Step 7: Trucks

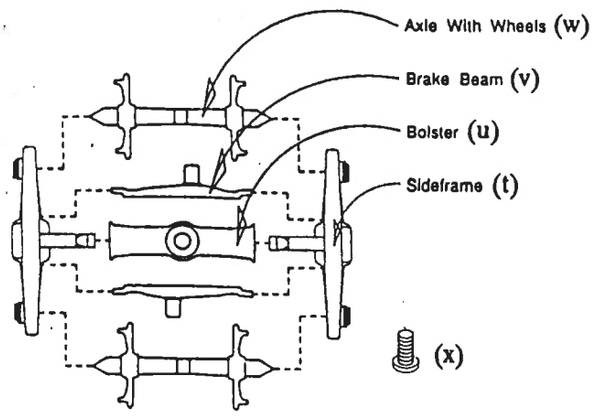
Press Sideframe (t) pins into each end of the Bolster (u) and snap into place. Install Wheel/axle Assemblies (w) into sideframes. Cutting very close to the sprue, remove the Brake Beams (v), as shown in the drawing, from the brake beam sprue. The other style brake beam is from an earlier era, however they may be used if you wish. Mount the brake beams in the shallow locator holes on the inside of the sideframe at the base of each side of the bolster. Mount trucks on car body using the Retaining Screws (x) provided.

NOTE: Your car is now ready to put into service on your model railroad empire. We hope that you have enjoyed building this model. We welcome your comments on this kit and also suggestions for future projects. If you find that a part is missing or defective, or if you should break or lose one, please contact your dealer or write or call us at 1-800-472-2530 for a replacement.

Thank you for purchasing an InterMountain Kit!!

"HO" Scale 60' Wood Deck Flat Car Kit





Assembly Diagram For Installation Of Underbody Brake System Details