



Instructions for Installing Jackson and Sharp Passenger Coach Detail Parts

Thanks for your purchase of your Blackstone Models Jackson and Sharp Passenger Coach! We have included a few detail parts with your model to enhance your enjoyment and add to the prototypical details. Keep in mind, that installing these parts is *optional* and that you can set your coaches on your layout and go if you prefer. The following instructions will assist you in applying the desired parts.

Table of Contents

Bay Windows.....	2
Marker Lamps.....	4
Roof Lamp Vents	5
Truck Wiper Pickups	6

BAY WINDOWS



Photo 1

History

Blackstone Models' Pullman Green coaches with road numbers 284, 306, 320, and the Painted/Unlettered version are supplied with two small detail pieces called "Bay Windows". While it is not exactly certain when these windows were applied, they appear in photos as early as 1938 for coach 306. Coaches 306 and 320 had the bay windows removed in the late 1940s, and the 284's bay windows were removed by 1946. They were created for trainmen working the mixed freight and passenger trains on the D&RGW Santa Fe branch. Trains #425 and #426 on the "Chili Line" did not utilize a cupola equipped caboose, thus the addition of these windows allowed train crew members to better observe the consist along both sides of the train. With the absence of the caboose, the seats next to these windows served as the resting spot for the Conductor/Brakemen. Good photo references for these cars may be found in Robert Grandt's "Narrow Gauge Pictorial Volume II: Passenger Cars of the D&RGW" and Herb Danneman's Colorado Rail Annual No. 25: "Rio Grande Narrow Gauge Varnish".

To aid your research on where to apply these windows for each road number, here's a quick primer to explain some terms used in these instructions:

To determine the "A" or "B" end of a car

Turn your Blackstone Models Passenger Coach upside down to view the underside detail. You'll see that there are two parts which look like little air tanks. The shorter of these two tanks has a little piston rod and clevis sticking out of one end and brake levers attached to both ends. This part is called the "Brake Cylinder". Take a closer look at this cylinder and determine which end has the piston rod and clevis. This rod and lever points toward the "B" end of the car. The other end of the car...well, that's the "A" end!

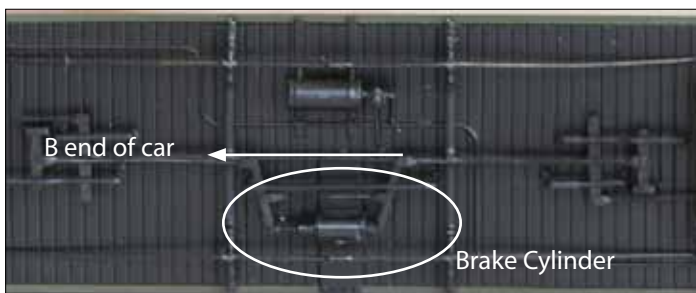


Photo 2

To determine the Left and Right Side of a car

Now that you have identified the "B" end of your car, set it right side up and look directly at that B end (end view, not side view). To the left will be the left side of the car, and to the right is the right side of the car.

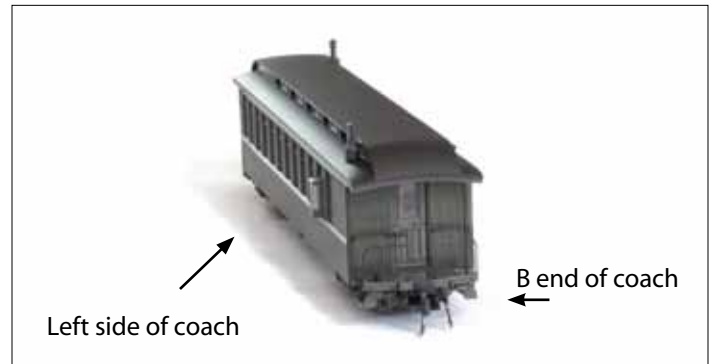


Photo 3

How are the bay windows positioned for each road number?

Road numbers 306 and 320 had the bay windows applied toward the B end of the car.

- On the left side, the bay window is located in the 2nd side window from the B end.
- On the right side, the bay window is located in the 3rd side window from the B end. (*Photo 3 shows the bay window positions for the 306 and 320*)

The bay windows will be located directly across from each other (as viewed from the top of the car) when properly applied.

Road number 284 had the bay windows applied toward the A end of the car.

- On the left side, the bay window is located in the 3rd side window from the A end.
- On the right side, the bay window is located in the 2nd side window from the A end of the car.

The bay windows will be located directly across from each other (as viewed from the top of the car) when properly applied.

Applying the Bay Windows

Tools needed:

- ACC glue ("Super Glue"/Cyanoacrylate) OR Liquid Plastic Cement (Tenax or similar)
- Fine tip for glue application (sharp toothpick, applicator, or hobby knife tip OK)
- Tweezers

Note: The top of the bay window has a slightly pitched roof. The bottom is straight when viewed from the side and it has a small chamfer in the back where it fits over the car's belt rail/window sill.

Use the glue extremely sparingly! A slight dab with a very sharp toothpick or hobby knife edge is suggested. Place the glue/cement in such a manner that it will very lightly coat the back edges of the bay window where it will contact the coach, then place and hold the bay window in position long enough for the glue to set or cement to bond the surfaces.

Note: Excessive glue (especially ACC type) may easily creep onto the clear "glass" surfaces and damage the appearance. If using the ACC type of glue, you may wish to only apply the glue to the lower edges to prevent it from flowing to unwanted locations. Blackstone Models does not provide replacement windows to cover potential damages by the customer. Please apply at your own risk!



Photo 4



Photo 5

MARKER LAMPS



Photo 6

History

With each passenger coach, you will find two plastic parts molded and painted to represent coach marker lamps. Throughout the twentieth century, most trains were equipped with marker lamps that were placed on the rear end of the rear car (be it caboose, coach or otherwise) of the train consist. The application of these marker lamps were required when the consist was assembled and authorized to operate on the main track of a given railroad. In addition to signifying the last car of a complete train, the markers had colored lenses which could be manually adjusted to face a given direction based upon the desired indication a train crew required. Under all normal operating conditions, the red lens faced the rear and would be visible to any following movement approaching the rear car. Properly displayed, marker lamps were only applied to the rear car of an authorized train. You may wish to consider this as you decide whether or not to permanently affix your marker lamps to a car.

Applying the Marker Lamps

The vertical position of the lamp mounting brackets varied slightly on different cars. The position in the model photos shown in this document is a reasonable representation of the typical position. **Note:** Take a moment to observe the mounting post on your lamps and determine where you will want to drill the mounting hole on your coach.

There is a left and a right marker lamp; you will drill on the center of the corner post. After the lamps are applied you should have a red lens facing toward the rear of the car. Each lamp has three yellow lenses and one red lens. The following instructions are indicated for one side of the coach/one marker lamp. Follow the same directions for both marker lamps.

*Photos typically show the **marker lamps** hung on the same end of the car toward which the **bay windows** are located. If applying both detail parts, you may wish to consider this.*

Tools Needed:

- Small power hobby drill (Dremel or similar) or a small hand drill device
- #75 drill bit

- Small Hobby Knife (such as X-Acto)
- ACC glue ("Super Glue") or Liquid Plastic Cement (Tenax or similar)
- Tweezers

1. Using the end tip of a sharp hobby knife, create a small pilot hole on one side. Twist gently and only deep enough to create a pilot hole that will grab the tip of your small drill bit to guide it in the proper direction.



Photo 7

2. Using a #75 (0.53mm diameter) drill bit, drill through the plastic where you created the pilot hole.
Note: attempt to drill the hole diagonally on the corner post rather than toward the car end or side! Note that the lamps' mounting posts are diagonal to the colored lenses.
3. Choose the appropriate (left or right) lamp and place it into the hole for a test fit. Make any adjustment to the hole size if needed. If the mounting post is slightly large for the hole, you may wish to very lightly trim the material on the post with a hobby knife rather than continue to enlarge the hole. When you are satisfied with the fit, apply a small drop of glue in the hole and permanently apply the marker. Remember, the red lens should face toward the rear of the car.



Photo 8

ROOF LAMP VENTS

If you purchased the painted/unlettered coach, you will find six (6) plastic molded parts to represent the roof mounted kerosene lamp vents. The mounting location for these varied with different prototypes. Depending on the version you are modeling, these lamps may have been mounted lengthwise along the roof line, on a diagonal (rare) or most commonly, two abreast and perpendicular to the length of the roof.

Note: It is not absolutely necessary that any of these lamp vents are mounted on your car. Some coaches may have been equipped with wall mounted kerosene lamps and therefore the need for roof vents would not have existed. The following photo shows the most typical mounting location for the lamp vents on D&RGW coaches.

Applying the Lamp Vents

Tools Needed:

- Small power hobby drill (Dremel or similar) or a small hand drill device
- #54 drill bit
- Small Hobby Knife (such as X-Acto)
- ACC glue ("Super Glue") or Liquid Plastic Cement (Tenax or similar)
- Tweezers

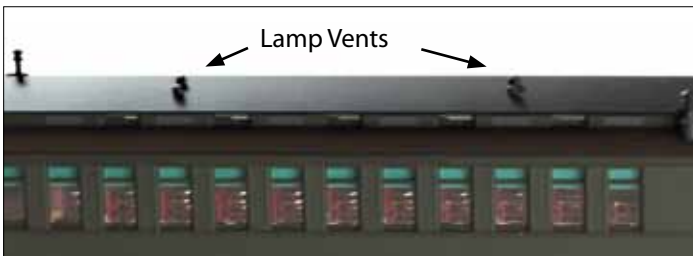


Photo 9

1. After researching your desired mounting location, use the pointed edge of a sharp hobby knife to mark all of the vent locations on the roof. Initially, make only a light mark for each spot, then view all of the marks together to ensure your general satisfaction with the vent locations.
2. For each vent location, drill through the roof with the #54 drill bit.
Note: The #54 drill bit size is recommended as a general starting size. You may wish to enlarge the hole or slightly file on the lamp vent mounting post for the desired fit.
3. Place glue in the hole and use tweezers to adjust the vertical position of the vent. Ensure that the vertical position of each vent is adjusted to match the others so as to ensure a uniform appearance.

Truck Wiper Pickups

Your coach is supplied with two metal pickups. You may attach these to each truck should you desire to add lighting or any electronics to your coach that would require current from the rails.



Photo 10

Note: SoundTraxx offers a custom designed accessory decoder for your Blackstone Models coach available as SoundTraxx part# 810136. If you desire to purchase and install this light board, please see the instructions supplied with the kit and available online on the SoundTraxx website.

If you wish to install the pick-ups for use with other electronics, please note the following instructions.

Tools Needed:

- Small Phillips head screwdriver
- 30 gauge ultra-flexable Wire
- Small Hobby Knife (such as X-Acto)
- ACC glue ("Super Glue") or Liquid Plastic Cement (Tenax or similar)
- Tweezers

1. Cut your wire to the length desired for your installation. Strip and tin the wire in preparation for soldering to the pickup wipers, which are located in the small parts bag supplied with your coach. Notice the wipers have a small eyelet to solder to. Make sure this stays toward the center of the coach to avoid any tracking issues when the model is reassembled.
2. Solder the wire to the wiper pickups. You will need to use solder flux to clean the contact point on the wiper and should have your soldering iron set to medium-high heat. DO NOT ATTEMPT TO SOLDER THE WIRE TO THE PICKUP WIPERS WHILE ATTACHED TO THE TRUCKS.



Photo 11

3. With a Phillips head screwdriver, remove the two passenger trucks.



Photo 12

4. After allowing the wiper to cool, take a small Phillips head screwdriver and remove the two screws holding the coach bolster in place.
5. Place the wiper contact above the bolster. Reinstall the two screws. When setting the wipers in place make sure the fingers make good contact with the axles. It is very important that they are not bent away and are in fact contacting the axle of the truck. **Note:** If you find that the wiper-to-axle contact creates too much rolling resistance, experiment with the bend of the wiper fingers to find an ideal combination of electrical pick up and rolling quality.
6. Reassemble the trucks to the coach. Check that the plastic insulating bushing on the wheels are on the same side on each truck. When reinstalling the trucks, set the insulator on opposite rail sides from each other so that one truck set picks up power from the left rail, while the other truck set picks up power from the right rail.

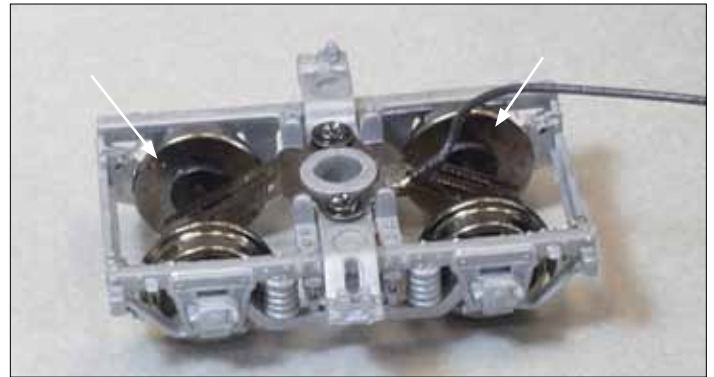


Photo 13

7. Feed the wires through the holes found in the base of the coach located directly above the trucks.