

RED CABOOSE

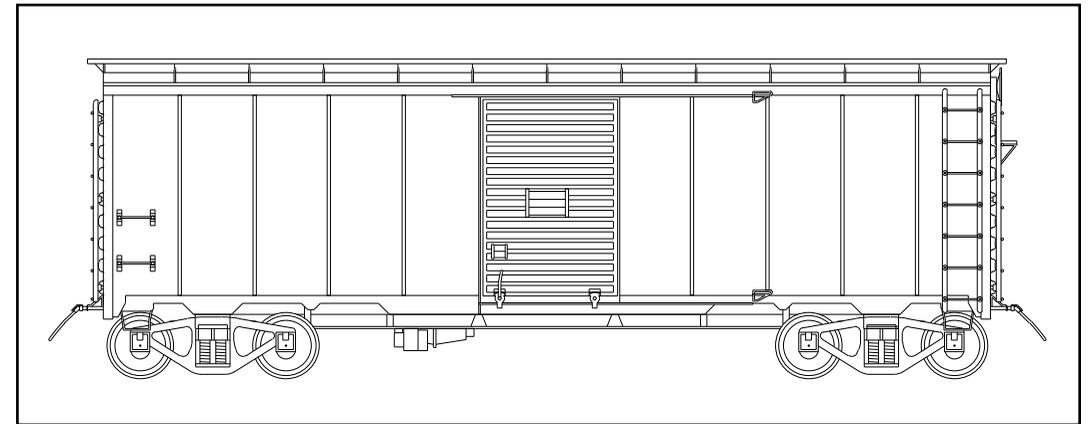
HO Scale

PARTS POLICY

If you break or ruin a part during assembly, or find a part with a manufacturing defect, it will be replaced free of charge by returning the part to the Red Caboose. Subject to stock on hand. Please specify road name when sending in parts.

PARTS LIST:

Part #	Part Description	On Sprue #	Quantity
1	Roof Walk		1
2	Roof	1	1
3	Roof Grab Irons	A	2
4	Body		1
5	Frame	B	1
6	Trainline	C	1
7	Triple Valve	C	1
8	Air Reservoir & Pipes	C	1
9	Branch Line	C	1
10	Brake Rigging	C	1
11	Coupler Box	B	2
12	Small End Grabs	A	4
13	Large Grabs	D	10
14	Short End Ladders	A	2
15	Brake Wheel	A	1
16	Brake Mechanism/Rod/Chain	A	1
17	Brake Platform Bracket	A	2
18	Brake Platform	A	1
19	Retainer & Pipe	A	1
20	Placards	A	6
21	Tall Side Ladder	A	2
22	Youngstown Door	F	2
23	Superior Door	F	2
24	Stirrup Steps	A	4
25	Brake Lines	C	2
26	Brake Fulcrum	C	1
27	Coupler Box Lid	B	2
28	Trucks		2
29	Screws		2
30	End Roof Walk Support Bracket	A	2



1937 AAR Standard Box Car

HISTORY

Railroad companies through history have always been very independent. During World War I, the U.S. Government took control of the nation's railroads and formed the United States Railroad Administration, USRA, standardizing everything from locomotives to passenger & Freight cars and even the caboose. With the end of the war also came an end to government control and standardization. Most railroads went back to their own designs immediately.

The American Railway Association (ARA) finally adopted a standard design box car in 1932. Production of this car was limited due to the current depression. In 1936 the ARA changed to the Association of American Railroads, AAR. The design committee changed the 1932 standard design to include, among other things, an inside height of 10 feet.

Thousands of these cars were built to this design for many railroads using wooden running boards, Murphy roof, 4-5 Dreadnaught ends, rivet construction and square corner post design.

Cars of this design were found in use into the 1970's in regular freight service and can still be found in Maintenance of Way service on many railroads.

A FEW TIPS

Before you begin, read the instructions thoroughly. After reading the instructions, keep in mind this model will assemble quickly if the following rules of assembly are followed:

- Carefully cut all parts from their sprue with a sharp knife.
- Check each part to be sure it is free of flash, remove flash as needed.
- Be sure to remove all sprue marks from the part.
- MOST important, be sure to clean all holes and surfaces where parts are to be glued together so that the part is paint free.

RED CABOOSE

P.O. Box 250 • Mead, CO 80542

January 1999

HELPFUL TOOLS

Hobby Knife
Small Phillips screw driver
#75 Drill bit
#41 Drill bit

Sharp Blades
Pin vise
Needle nose pliers w/cutter
Tweezers

ASSEMBLY

Please note that most parts have been silhouetted for easy identification and/or are shown in the exploded view. Part numbers follow the logical assembly sequence. All holes on painted models should be drilled out with a #75 drill for best fit and to clear paint for good part bonding.

ROOF

1. Mount the roof walk, #1, to the roof, #2. There are two ways to do this. You may drill out the four dimples on the underside of the roof with a #41 drill and glue the roof walk in place or you can cut the pins off the bottom of the roof walk and mount it directly to the roof walk saddles on the roof of the car. Prior to mounting the roof walk, note the side walk at either end of the roof walk. You will need to scribe a line on the bottom of the roof walk where these side walks touch the roof walk so that you can bend the side walks down slightly to follow the roof contour.

Glue the roof walk in place. When dry, glue the side walks down so that their support brackets on the end touch the roof.

2. Cut the two roof corner grab irons, #3, on sprue A from their sprue and glue in place as shown on the exploded view.

UNDERBODY

3. The underbody drawing shows the 'B' or 'brake end' of the car underbody and how all the main underbody parts fit together. Be sure to assemble the parts so that the proper end of each part is located at the 'B' end of the car.
4. Underbody assembly begins with cutting the frame, #5, from sprue B. Now cut the trainline, #6 from sprue C and glue in place in the notches on the top of the frame. Now glue the frame to the car body 'B' end at the 'B' end.
5. Mount the triple valve, #7 on sprue C, to the underbody as shown. Be sure that the two ovals on one side are facing inward. Follow this by mounting the air reservoir and pipes, #8 on sprue C, and glueing in place. Cut the pipes to fit into the triple valve but do not glue them at this time. Test fit the branch line, #9 on sprue C, between the trainline and the rear of the triple valve, trim and glue only to the trainline at this time.
6. Carefully remove the brake rigging assembly, #10 on sprue C, and test fit as shown on the underbody drawing being sure the 'B' end is at the 'B' end of the car. Glue in place when fit is correct. You can now glue all the pipes to the rear of the triple valve.
7. Mount the coupler box, #11 on sprue B, to the underbody. If using #5 couplers you will need to remove the rear of the coupler box to allow the coupler to swivel properly. Or you can use the box supplied with the #5 couplers and follow the manufacturers installation instructions.

END DETAIL

8. On both ends glue in place 2 small grab irons, #12 on sprue A, along the bottom edge of the car, see exploded view. Also glue in place on both ends 1 grab iron, #13 on sprue D, see exploded view. (Sprue D replaces the oversized grab irons on sprue A).
9. On both ends glue in place the short ladders, #14 on sprue A. See exploded view.

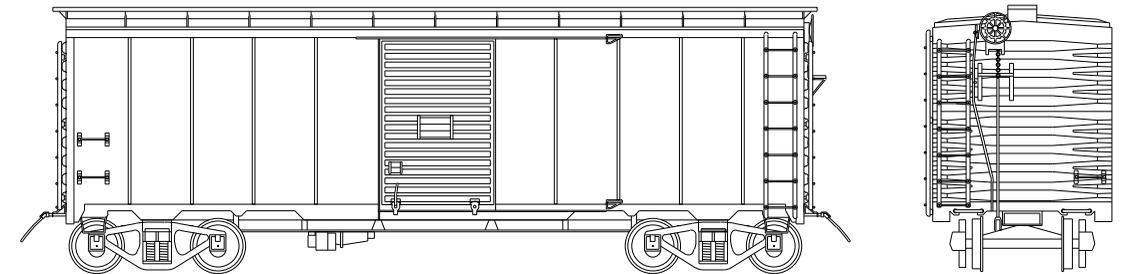
10. Assemble the brake wheel, #15, to the brake mechanism/chain/rod, #16 - both are on sprue A. When done, glue the assembly to the 'B' end of the car as shown on the exploded view. Cut from sprue A the brake platform brackets (2), #17, and the brake platform, #18. Glue the brackets to the 'B' end as shown and glue the platform on top of the brackets.
11. Placards, #20 are supplied on sprue A. Typical placement is shown on the side view drawing. Glue placards in place now on the doors as shown or use prototype photo of a specific car if you have one.

SIDE DETAIL

12. Cut the tall side ladders, #21, from sprue A and glue in place on the car side.
13. From sprue D, cut the side grab irons, #13, and glue in place on each side.
14. Two sets of doors are supplied, the Youngstown door, #22 was the most popular of the two. The Superior door, #23 (both are on sprue E), was not as popular but favored some major railroads. The enclosed list indicates which cars have Superior doors. It is always best to check prototype photographs if possible. Carefully glue your choice in place.

FINAL ASSEMBLY

15. To the four corners of the underbody, add the four stirrup steps, #24 on sprue A. See side view and exploded view.
16. From sprue C cut the two brake lines, #25, and glue in place in the holes next to the coupler box as shown on the exploded view.
17. To the underbody 'B' end, add the brake fulcrum, #26, on sprue C. There is a hole for this part located next to the coupler pocket.
18. Select the type of cuplers you wish to use and install in the coupler box, cover the box with box lid, part #27. A touch of glue may be needed to hold the cover in place.
19. Assemble the supplied truck, #28, and screw in place with the #2 screws, #29.
20. You may now glue the roof, #2, in place, but first you may want to put a weight in the car. Do so now before glueing the roof on.
21. The final step is to glue the two end roof walk supports, #30 on sprue A, to the bottom of the roof walk and the top of the car end/roof.

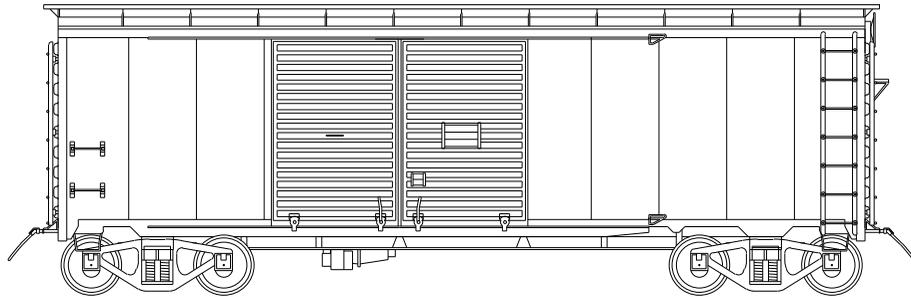


RED CABOOSE

HO Scale

40' 1937 AAR
Double Door Box Car

Addendum



Sprue G containing two left hand Youngstown doors, #31, has been added to this kit.

This step replaces set #14 of the Single Door Instructions. Cut the two Youngstown doors, #22 on sprue F, from their sprue and glue one on the right side of each door opening.

From sprue G, cut two left hand Youngstown doors, #31, and glue one on the left side of each door opening.