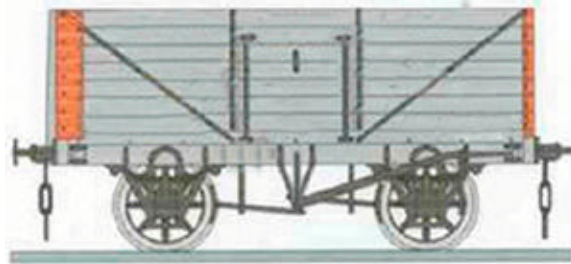


NORTHERN FINE SCALE CANADA

High Quality Kits for Gauge 1



Railway Clearing House 9'-0" Wheelbase Wagon

For the general appearance of the wagon, please refer to the transfer and the picture on the box.

This kit contains the following items

1- Floor	1- 'Swing' end	1- Fixed end	2- Sides
2- Sole bars	4- Axle boxes	4- Bearings	4- Buffer heads
4- Buffer stocks	4- Buffer stock rims	4- Buffer springs	4- Buffer head (M2) nuts
2- Coupling hooks	2- Split pins	2- Coupling springs	2- Coupling chains
2- Sets brake gear with door drop stops	2- Axles with wheels	1- Stiff wire	

You will need for assembly:

Mek-Pak, or any liquid MEK equivalent. For North America Ambroid Pro Weld. (tube cement is not suitable); Fine natural bristle paint brush number 2 or 3 to apply the cement (the solvent will attack a synthetic brush); a flat sheet of glass or material that will not be affected by poly cement; Block of wood approx. 1" thick x 2" x 4" with one square corner with the corner beveled off to give room for the cement brush, but block is not essential. A small file, modeling knife, tweezers, needle nose pliers.

To Begin:

Inspect all items. Using the file, smooth away any pips left from moulding on the edges of the sides, ends, floor and sole bars. Do not file mitred corners of sides and ends or the pips on the floor underside.

Painting:

Painting of the kit is best done after the body has set up and before the axle guards are glued to the sole bars and hooks, buffers and brake gear are installed. Livery details are included with the transfer sets. **Note:** do not paint the top surfaces of sole bars, and the underside of the floor where the sole bars fit.

The Body:

Take a matching side and end. **Make sure the side and end match.** Turn upside down and line up both parts against the wooden block so that the bevelled corners fit snugly. Run a bead of solvent down the inside of the joint, which will set up within minutes. Set assembly aside and repeat the procedure with the other side and end. When both 'L' s have been set up repeat the procedure to complete the sides of your wagon making sure all is square. The base will fit inside and ensure the floor is straight, glue from the underside. A small radius can be filed on the corners of the fixed end of the wagon. **See Photo's 1 and 2**

The Chassis:

The axle guards can be plugged into the holes in the back of the sole bars and cemented into position. **Note:** that the 'C' crown plate moulded above each axle box must face down. Press the nylon bearing into the hole in each guard. Run a file over the top of the sole bar and axle boxes surface to ensure all is flat. Line up one sole bar against the small pins on the base and glue in position. Check that all is square. Insert the axles/wheels and repeat with the other sole bar. Check for fit before glueing in position. **See Photo's 3 and 4**

Buffers:

Cement the rims to the outer end of each buffer stock. **Note:** the rims have a slight recess on one side for location to the buffer stock. Assemble the buffers with a spring and a 2M nut, cement each assembly into place. **Note:** long webs on the sides, short webs on top.

See Photo 5

Draw hooks:

Open up the chain link and fit to draw hooks. Insert hook through the slot in buffer beam. The large spring being fitted over the shank and retained with a split pin, one side of which is bent open.

Brake gear:

Remove the main brake assembly from the sprue. Glue the two safety hanger halves to their respective posts. Place each set of brake gear centrally between the wheels and against the sole bars. Cement into position. Insert the stiff wire through the holes in the gear and thread on the 'V' hangers, bolts out, so one is each side of each sole bar, cement into position. The brake lever rack is fitted to the sole bar between the 'C' crown plate and the vertical washer plate on the right hand side. Repeat the procedure on the other side and glue the lever in position with the handle resting on the top of the rack for a running wagon. The side door stops are glued to the outside of the sole bar between the 'V' hanger. **See Photo's 6, 7, 8 and 9.**

Transfers:

Follow instructions with the transfer sheet.

You have now completed your Northern Fine Scale wagon. Happy running.



Photo 1

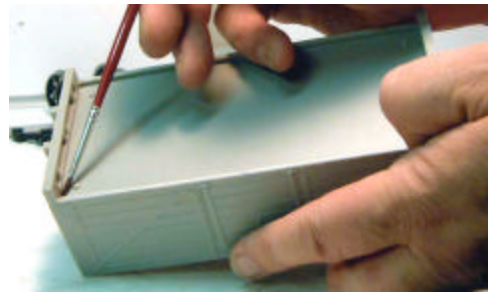


Photo 2



Photo 3

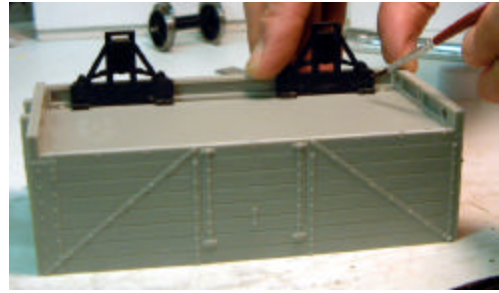


Photo 4

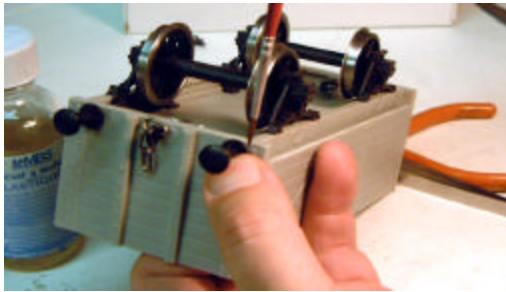


Photo 5

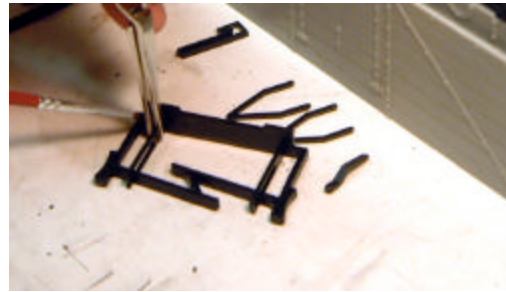


Photo 6

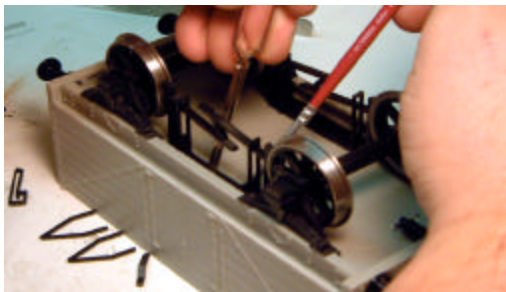


Photo 7

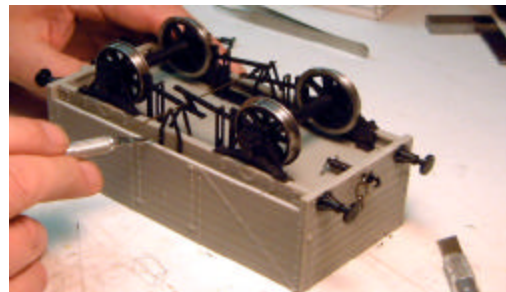


Photo 8



Photo 9

Livery for these wagons was varied in the extreme and millions of them ran on the railways from the late 1800's to the early 1970's. Personal taste and research must dictate the aspect of your model. Livery details are included with the transfer set included in your kit. For those who wish a different livery for their wagons, other than transfers we supply, we recommend that you contact:

P O W sides who have a growing range of Gauge 1 transfers.

Although this kit is highly detailed there are always "kit bashers" out there who like nothing more than to improve the breed and to this end we highly recommend: "The 4 mm Coal Wagon" by John Hayes and published by Wild Swan.

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