

## NORTHERN FINE SCALE CANADA High Quality Kits For Gauge 1

### Instructions For Van

**This kit contains the following items**

<u>QTY</u>	<u>ITEM</u>	<u>QTY</u>	<u>ITEM</u>	<u>QTY</u>	<u>ITEM</u>
1	Floor	2	Van Ends	1	Roof
2	Van Sides	2	Sole Bars	4	Axle Boxes
4	Bearings	2	Coupling Hooks	2	Split Pins
2	Coupling Springs	2	Coupling Chains	4	Buffer Heads
4	Buffers Stocks	4	Buffer Stock Rims	4	Buffer Head Nuts (M2)
4	Buffer Springs	2	Sets Brake Gear	2	Axles With Wheels
1	Stiff Wire	1	Strip Styrene for Door Track		
Additional Items for Fruit Van:		6	Vents	2	Vacuum Pipes

### Kit Instructions

You will need a flat surface to work on and some simple tools. A flat needle file, tweezers, sharp craft knife (i.e. Exacto), small pliers are required and some method of holding the wagon sides square whilst gluing them together. We recommend a small block of wood with a true, square corner, which is cut at an angle to allow access for the glue brush to reach the joint. (see photo 1.) A liquid styrene solvent, like Slaters MEK, Ambroid Pro Weld, or Plastruct Plastic Weld is recommended, and a small pointed number 2 artists camel hair brush, (not a synthetic bristle brush) to apply the solvent with. The liquid solvent works by capillary action and welds the joint together. **Do not** use tube styrene cement. Always cut the parts as needed from the sprue, never break them off by bending back and forth. There is a risk of damaging or deforming the part. Use a flat needle file to remove any pips or bumps after cutting.

Note: do not paint surfaces that are to be glued.

### The Body: (See Photo 1)

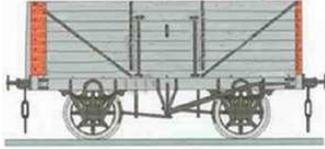
Take a side and end. Lay side on 2 blocks inside face up, so that it lays flat. Slide end onto rebate snug with buffer beam and support vertically. Place square block on the inside of side and end. Run a bead of solvent down the side of the joint which will set up within minutes. Set assembly aside and repeat the process with other side and end. When both "L"s are set square, lay first side on top of second side (see photo 2) and glue. Fit floor inside of van body resting on ledges of buffer beams. Ensure flatness, then run a brush of solvent



**Photo 1:**



**Photo 2:**



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around edges inside and out to ensure good adhesion. Cut the styrene strip to length and glue into position on the door track (top right hand side) forming an inverted U shape. Repeat for the other side.

### **Under Frame:** *(see photo 3)*

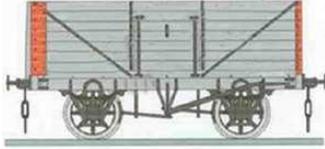
Axle guards can be plugged into the holes in the back of the sole bars and glued into position. **Note: The hole in the side sole bar for the brake lever rack is on the right hand side of the van.** Press the nylon bearing into the hole in each guard. Run a file over the top of the sole bars and axle box surface to ensure all is flat. Line up one sole bar against the small pins on the buffer beam and check that all is square. Then glue into position. Insert the axles/wheels and repeat with other sole bar. Check for fit before gluing second solebar into position.



Photo 3

### **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. Take the buffer ram and slide a buffer spring over the end of it. Insert the ram and the spring through the buffer housing and secure by fitting the small nut onto the threaded end of the ram. The buffer should now move freely in and out of the housing. The hole may need to be cleared of residue (1/8" drill or reamer). Insert the buffers into the holes in the buffer beams ensuring that the short flange on the housing body is up (i.e. at 12 o'clock).



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### Draw hooks:

Open out the end link on the three link chain and insert it through hole in draw hook. Insert hook through the slot in buffer beam. The large spring is fitted over the shank and retained with a split pin, which is bent open.

### Brake Gear:

Take the main gear components and two half's of the safety hanger loops. (See *photo 4*) Glue them in place to form the safety hanger loops and leave to set. Fit the brake gear assembly to the bottom of the wagon with the long slot against the back of the sole bar so that the brake shoes are between the wheels but not touching them. Ensure the wheels run freely. When the glue has set take the stiff wire and thread it through the hole in the middle of the brake rods. Slide the 'V' hangers on to the ends of the wire. **Note: only 1 "V" hanger per sole bar is fitted to the vans.** (See *Photo 5*) This is fitted to the inside of the sole bar, glue in position.

The peg on the brake lever rack locates its position in the hole in the sole bar, glue in position and repeat process for the other side. Glue the brake lever in position with the handle resting on the top rack for a running van.

### Roof:

**At this stage of the assembly it is recommended to add weight to the van.**

Fit the roof to the van body and glue into position.

### Fruit Van Roof and Vacuum Pipes: (see *photo 6*)

Insert the vents into the roof and glue from the inside.

Brake vacuum pipes fit with the top of the pipe centered on the end of the van and bottom part of the pipe on the buffer beam.

### Painting and Transfers.

Please refer to the instructions with your transfers. You have now completed your Finescale wagon. Happy running.

Revised October 24, 2005

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Photo 4:

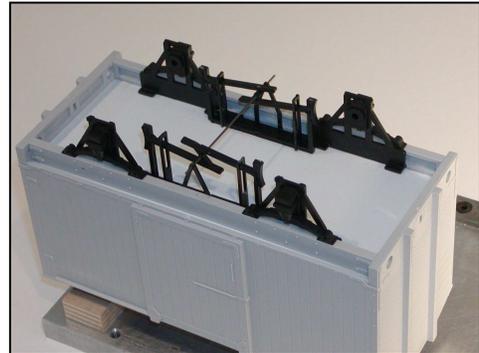
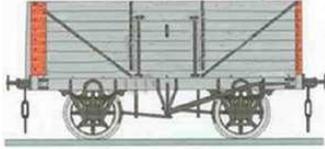


Photo 5:



Photo 6:

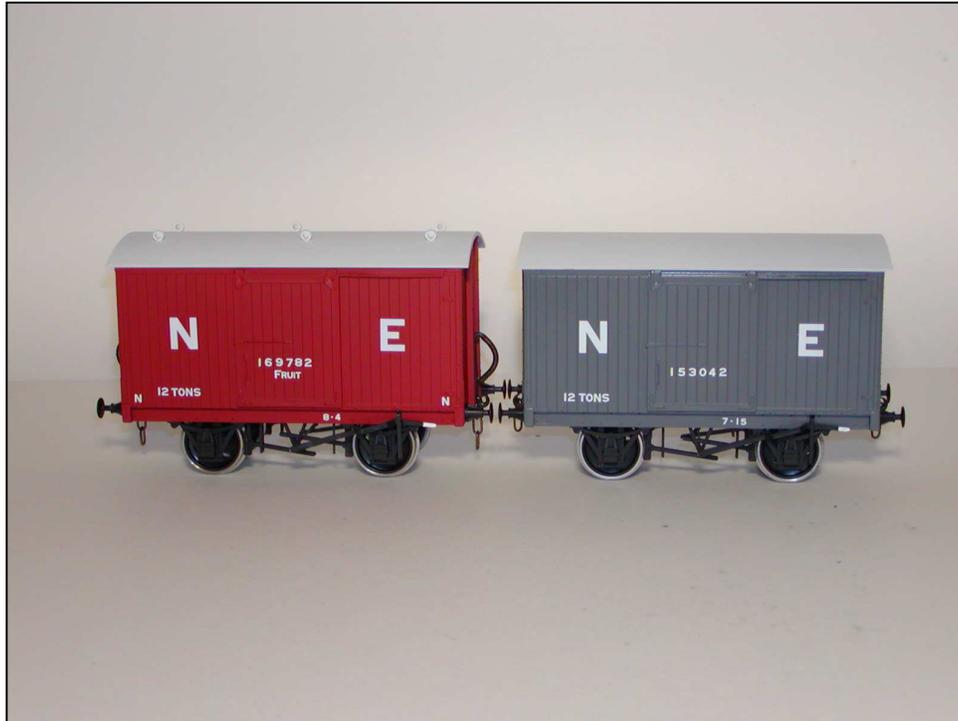


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### General Notes:

The LNER ventilated covered vans with 9 foot wheel base were built with wood or steel underframes. Fitted with hand or vacuum brakes and built in large numbers that were seen all over the country.

### Finished Vans:



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