

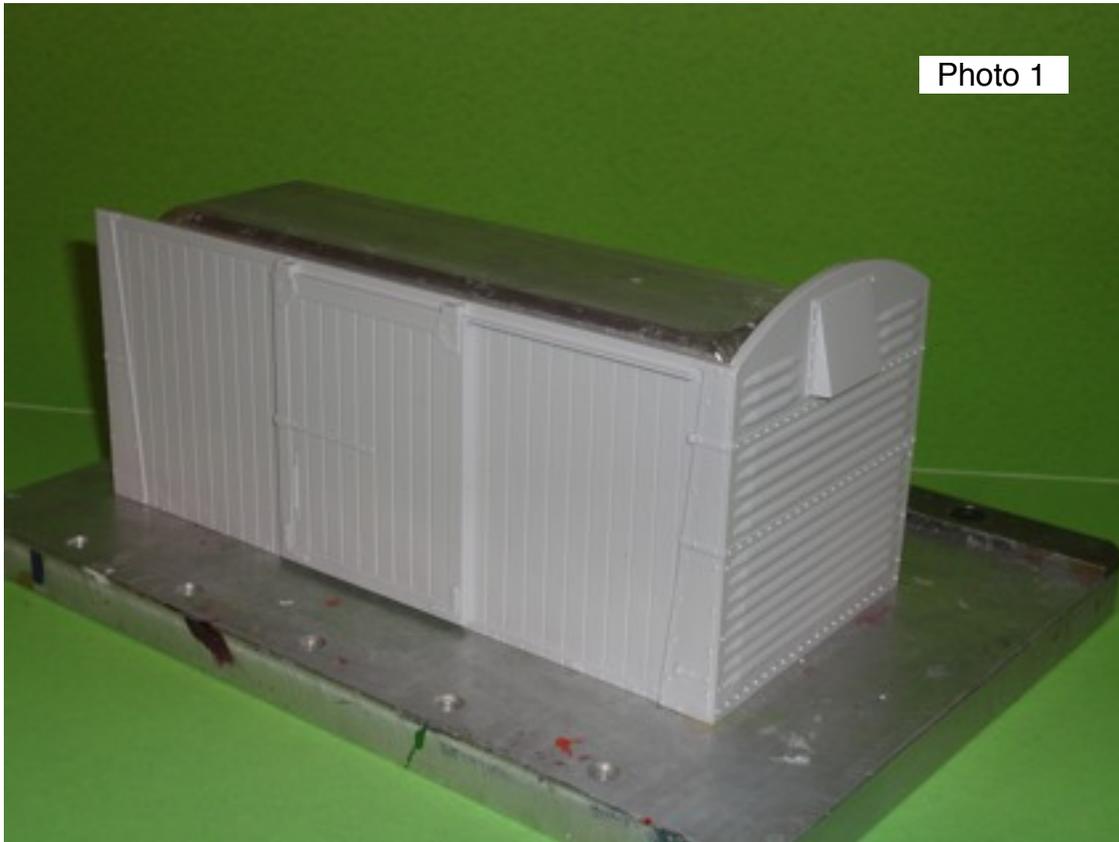
## Instructions For Corrugated End Van

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	Buffer Stocks	4	Buffer Stock Rims	4	Buffer Head Nuts (M2)
4	Buffer Springs	2	Brake Gear Sets	2	Axles With Wheels
1	Stiff Wire	1	Styrene Strip for Door Track	2	Vacuum Pipes
2	Buffer Beams	4	Brake Hangers		

### 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, and some method of holding the wagon sides square whilst gluing them together. 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:**

Take one end and one side, ensuring it is the correct way up. Stand the side and end on a flat surface. With the aid of a square block, join the side and end together, ensuring the end overlaps the side. (It may be necessary to first remove the lower two small protrusions from the back of the side pieces). (See *photo 1*) Run a bead of solvent into the corner of the joint and apply pressure to the center of the end to remove the slight bow. Allow solvent to set. DO NOT GET SOLVENT ON YOUR FINGERS. This will form an "L", repeat for the other side and end. When both L's are set, join them together to form a box and run a bead of solvent into the other two corners.

When set, slide the floor into the bottom of the box. Stand the van body upright on a flat surface and press the floor down. IT IS IMPORTANT THAT THE FLOOR IS FLAT INSIDE THE BOTTOM OF THE VAN BODY. Apply solvent to the edges of the floor inside and out to ensure good adhesion.

Cut the thin 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. When the glue has set, lightly sand the bottom of the body assembly on an abrasive sheet to ensure that all is flat.

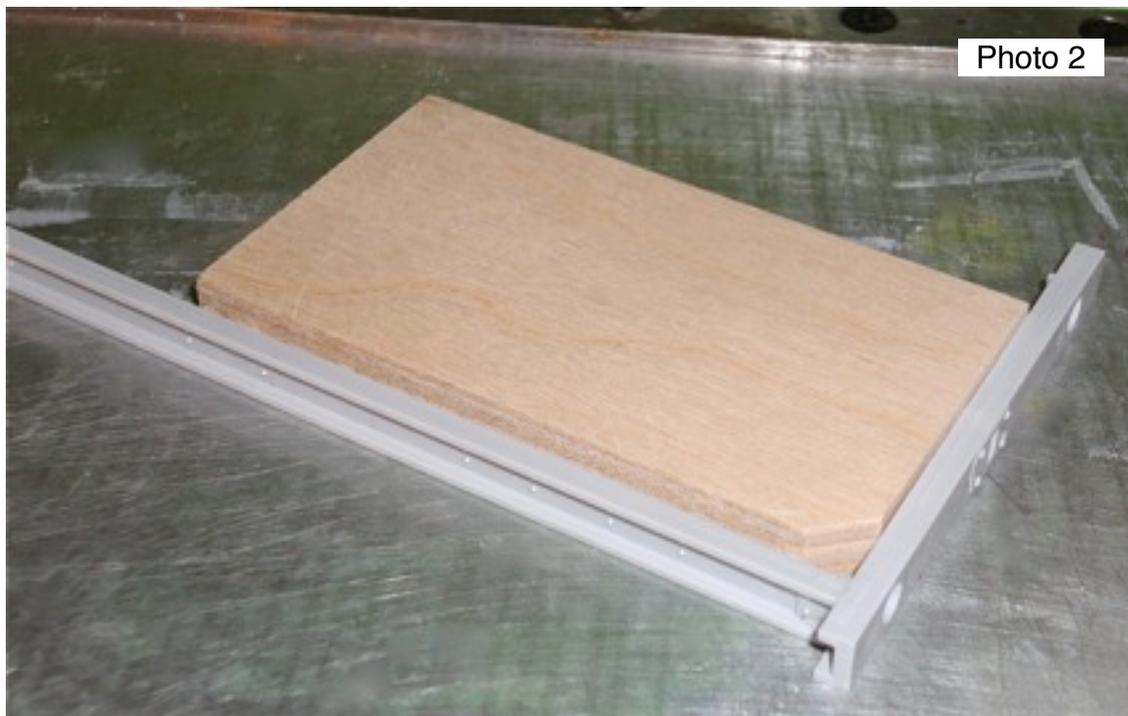


Photo 2

**Under Frame:** (See photo 2)

On a flat surface glue a sole bar to the buffer beam forming a “L” shape. The back edge of the sole bar fits up to the stop on rear of the buffer beam. Ensure that the solebar is at right angles to the buffer beam and the vertical plane. Repeat the process for the other sole bar and buffer beam.

Remove the middle pip from the inside of the sole bar. Join the two L’s together and fit the ‘W’ irons to the sole bars. The round peg on the ‘W’ iron fits into the hole on the sole bar. (See photo 3)

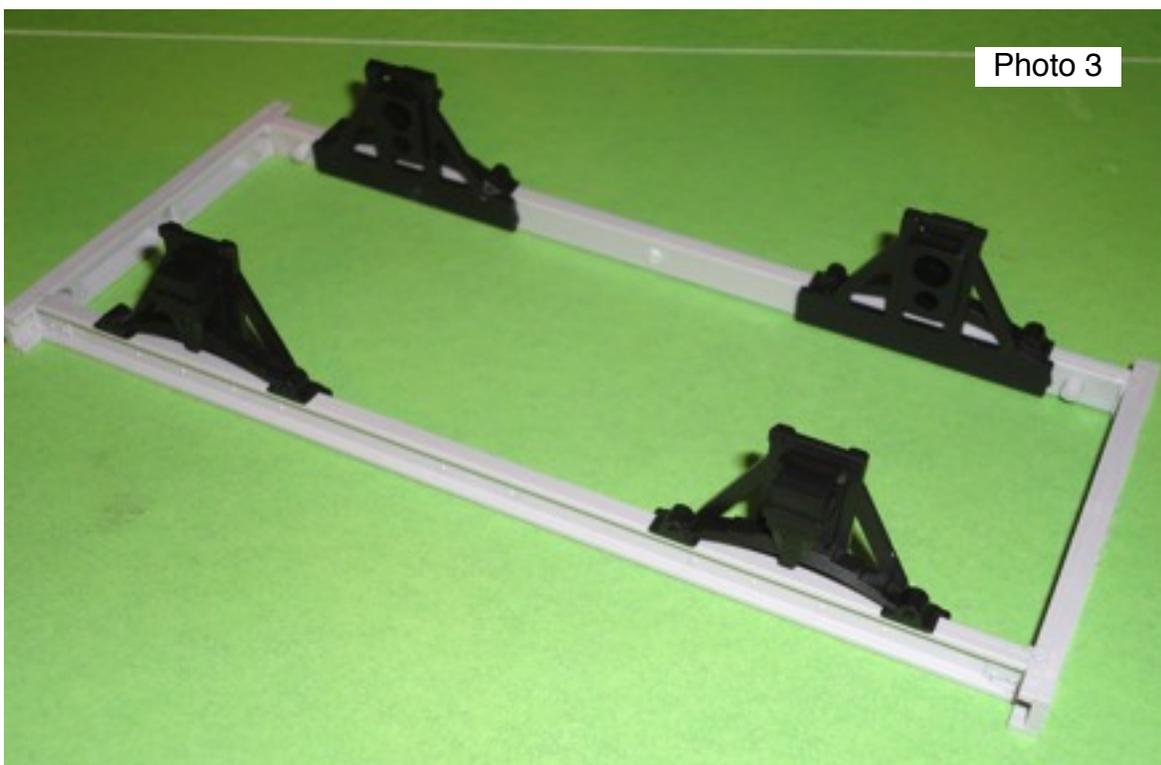


Photo 3



Place the van body on a block and glue one bufferbeam to the bottom of the van flush with end and sides. Press the nylon bearings into the axle boxes. Bend the axle boxes out to fit the wheels. Glue the other buffer beam to the end of the van. Ensuring the wheels spin freely and have side play. Glue the sole bars to the base.

#### **Brake Gear:**

Take the main brake gear component 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 large 'V' hanger onto the wire and glue them to the inside of the sole bars. Slide the short 'V' hangers onto the wire with the knobs facing inwards and glue. Trim the wire to length leaving enough wire to hold the brake levers in place. On the right hand side of the sole bars glue the brake hangers 24 mm from the end. Slide the brake lever through the hanger and press onto the wire. The brake lever is placed in the top notch of the brake hanger for a running van. Glue into position. Glue the four brake blocks to the floor and position them on the outside of the wheels as shown in the photo.

#### **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 flats on the buffer stock are parallel to the buffer beam.

**Draw hooks:**

Open out the end link on the three link chain and insert it through hole in draw hook, then close it up again. Insert the Draw 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.

**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.

**Vacuum Pipes:**

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. Use cyanoacrylate glue for this.

**Painting and Transfers.**

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

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