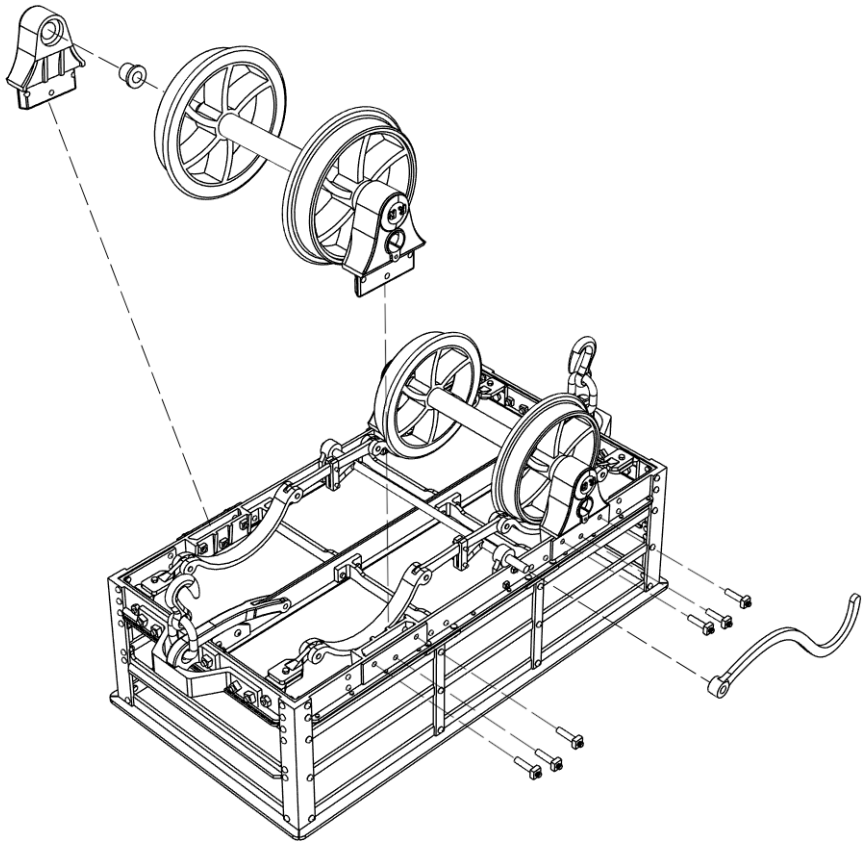
# 3D Printed Festiniog Railway Iron Body Slate Wagons

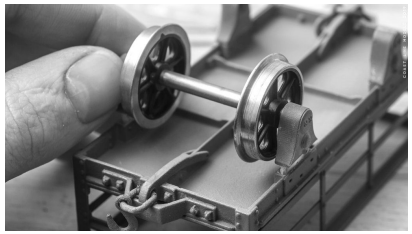
Assembly Notes



*2 Ton Wagons*

1. Check bearing fit on axlebox journal, open out with broach if necessary. Press bearings into axleboxes, assemble axleboxes onto wheelsets.

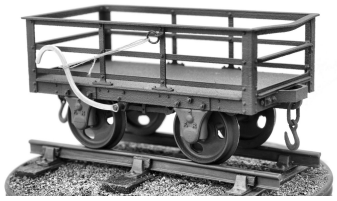




2. Fit Axlebox/Wheelset Assembly into sockets in wagon body, check that wagon rolls freely.(On Braked 3-ton wagons performs steps 5-6 first)

3. Cross drill through the wagon body and axlebox bolt pilot holes with a 1.05mm drill bit, and secure axlebox in place with pins. This is best done one hole/pin per axlebox at a time, checking that free rolling is maintained after each pin.

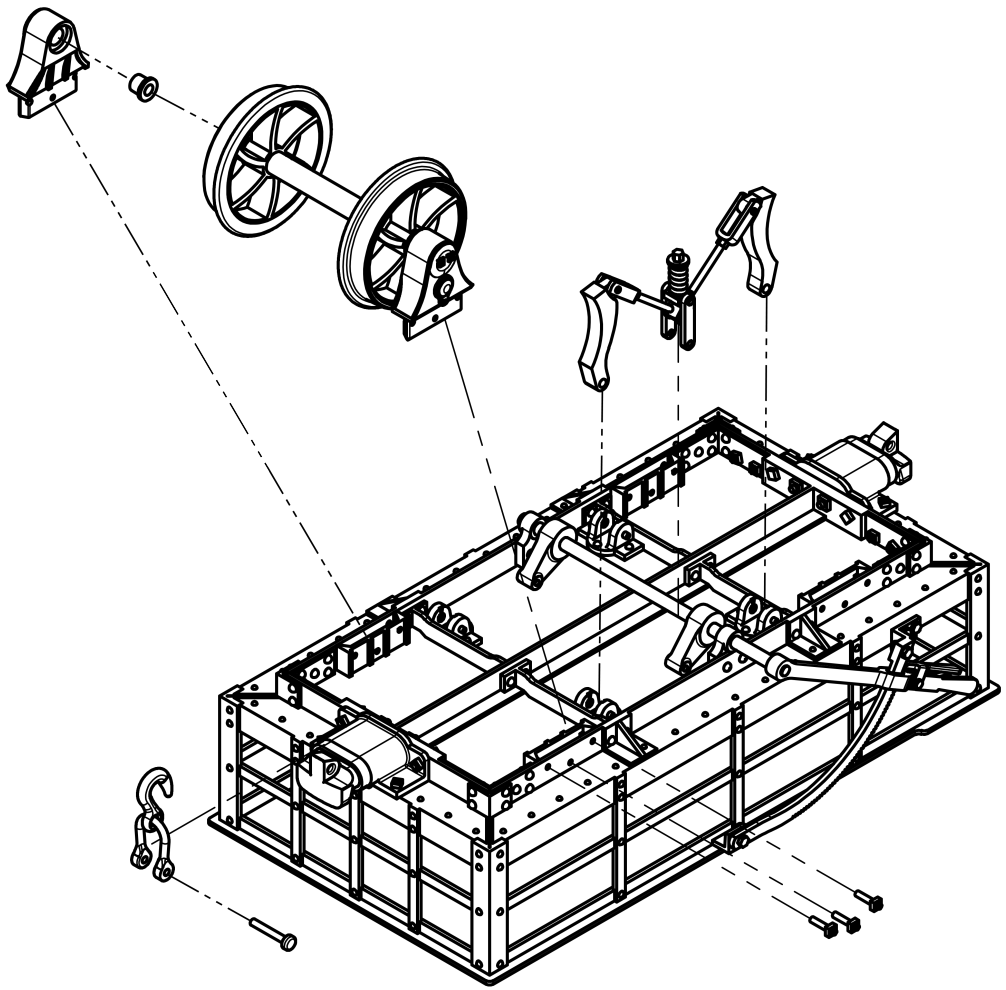




4. Add brake lever (where fitted). If desired the brake lever can be roped up using fine cord.

# 3D Printed Festiniog Railway Iron Body Slate Wagons

Assembly Notes



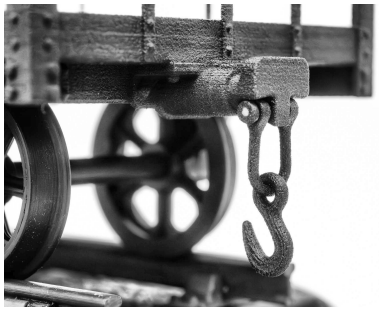
*3 Ton Wagons*

5. 3-Ton Wagons are supplied with brake gear separate. This is a snap fit into the hangers. Gently press the top of the brake shoes into the hangers one by one, there Is a slight notch to aid alignment. The pips on the top of the brake shoe should snap into the corresponding sockets in the hangers.

6. After the shoes have been fitted into the hangers, the same process should be applied to the push rods onto the cranks.

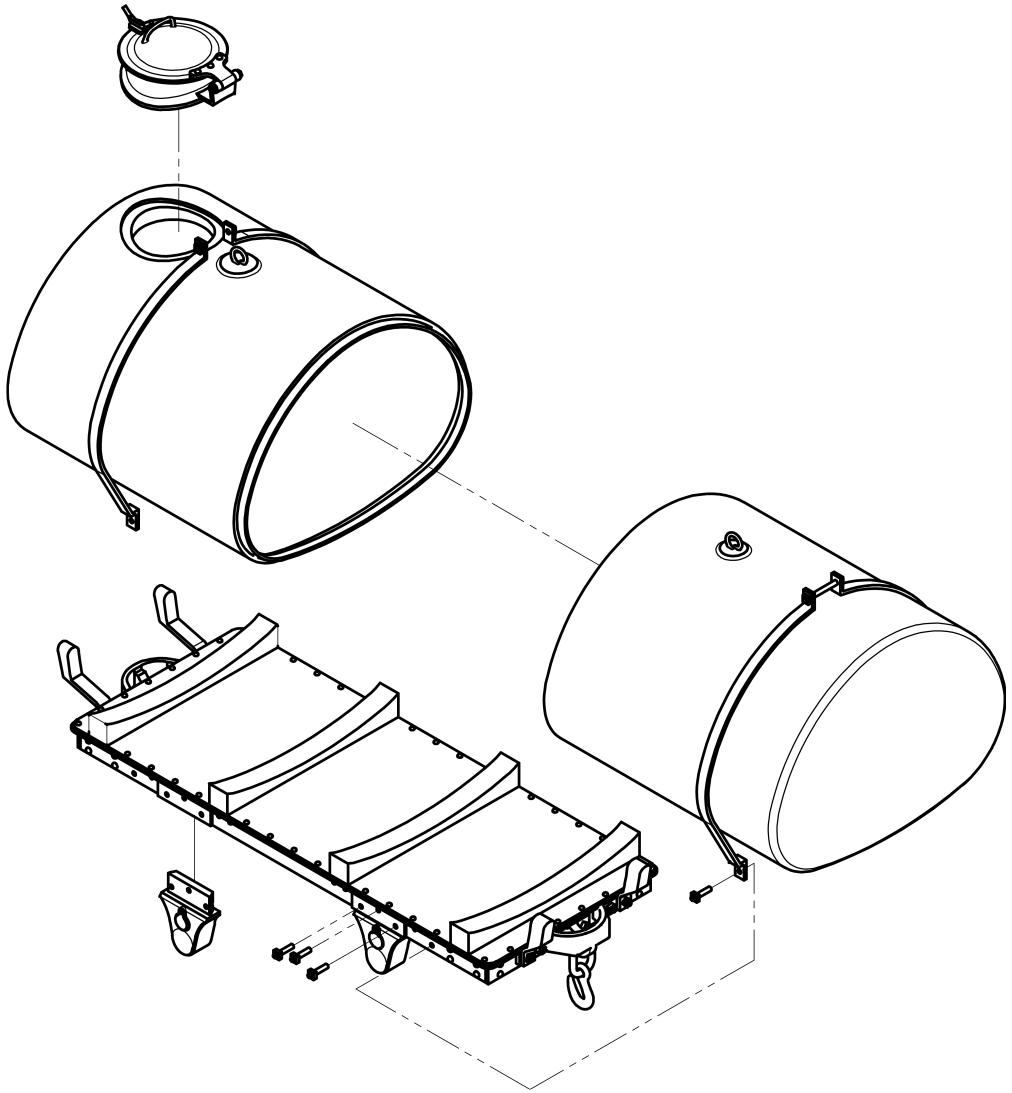
7. D shackle couplings should have the pin holes drilled out to 1.35mm, the matching hole in the wagon buffer should be drilled out to 1.4mm.

8. Attach D shackle coupling using the pin provided, Note that one side of the shackle has a representation of the split pin, so fit from the opposite side. Check for running clearance and secure pin with a dab of paint/varnish.



# 3D Printed Festiniog Railway Iron Body Slate Wagons

Assembly Notes



## Supplement for FR10 Maenofferen Tank Wagon

1. Remove Filler from sprue inside tank half and attach to aperture. Join Tank halves together.

2. Fit wheels, bearings and axleboxes to underframe as per normal Iron wagons (See previous instruction sheet).

3. Orient tank over the underframe – the filler goes at the end with the longest protrusions from the couplings. Carefully spread the straps and drop into position onto the underframe.

4. Secure straps by cross-drilling the holes and securing with axleboxes pins, as for the axleboxes.

5. Cross-drill top of filler end straps and use short length of 0.8mm wire to complete the tie bolt which passes through the filler hinge assembly.