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E236 - GWR Twin brake hangers for 43xx and 31xx (later 51xx)

These double brake hangers and blocks are the type fitted to 43xx locos when first built and lasted until either replaced by the cast type or until withdrawn. They were also fitted to 31xx (later 51xx), but not at first.

Note: the small washers and brake blocks attached to parts 2, 5, 8, 11 must be left attached to the part when removing it from the etch.

1. Drill a 0.5 mm hole perpendicular in a flat piece of wood. Insert a short piece of 0.5 mm wire into the hole. Then take a left-hand brake hanger front [1], place the top hole over the wire and drill a 0.6 mm hole through the bottom hole into the wood. Insert a piece of 0.6 mm wire through the hole into the wood. Now drill into the wood through the centre hole with a 0.5 mm drill. Remove the brake hanger, reverse it so that the outer face is down, and drill through the centre hole again with the 0.5 mm drill.

2. Take a left-hand brake hanger back [2]. With the half-etched part upwards, bend up and over the two washers and the brake block. Ensure the holes all line up and the pieces are tight against the main part of the etch.

3. Place the brake hanger back over the wires on the jig and the insert a 0.5 mm piece of wire through the centre hole into the wood.

4. Fit the left-hand brake hanger front [1] over the wires and on top of the brake hanger back. Solder together **on the brake block edge only**.

5. 1. Remove the assembly from the jig. Remove the wires at the top and bottom if they have come out with it and solder the top bosses and bottom bosses together.

6. Cut back the wire through the centre hole and then file both sides flush.

7. Take a brake hanger left-hand top pin retainer [3] and attach to the front top of the brake hanger assembly. We used 5-minute epoxy.

8. Take a brake block pin retainer [4] and attach with the pin end over the location of the wire in the central hole in the front of the brake hanger assembly. Use photographs to determine the exact angle because this varies greatly between locos. Again, we used 5-minute epoxy.

9. Repeat for the other left-hand brake hanger and then for the two right-hand brake hangers using parts 5,6,7,4.

Now repeat the whole process, including drilling the holes in a piece of wood, for the left-hand leading brake hanger using parts 8, 9, 10, 4 and the right-hand leading brake hanger using parts 11, 12, 10, 4.

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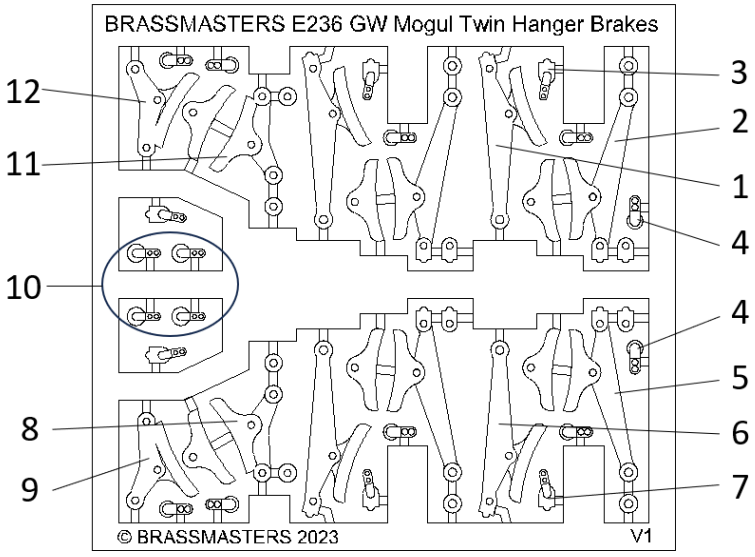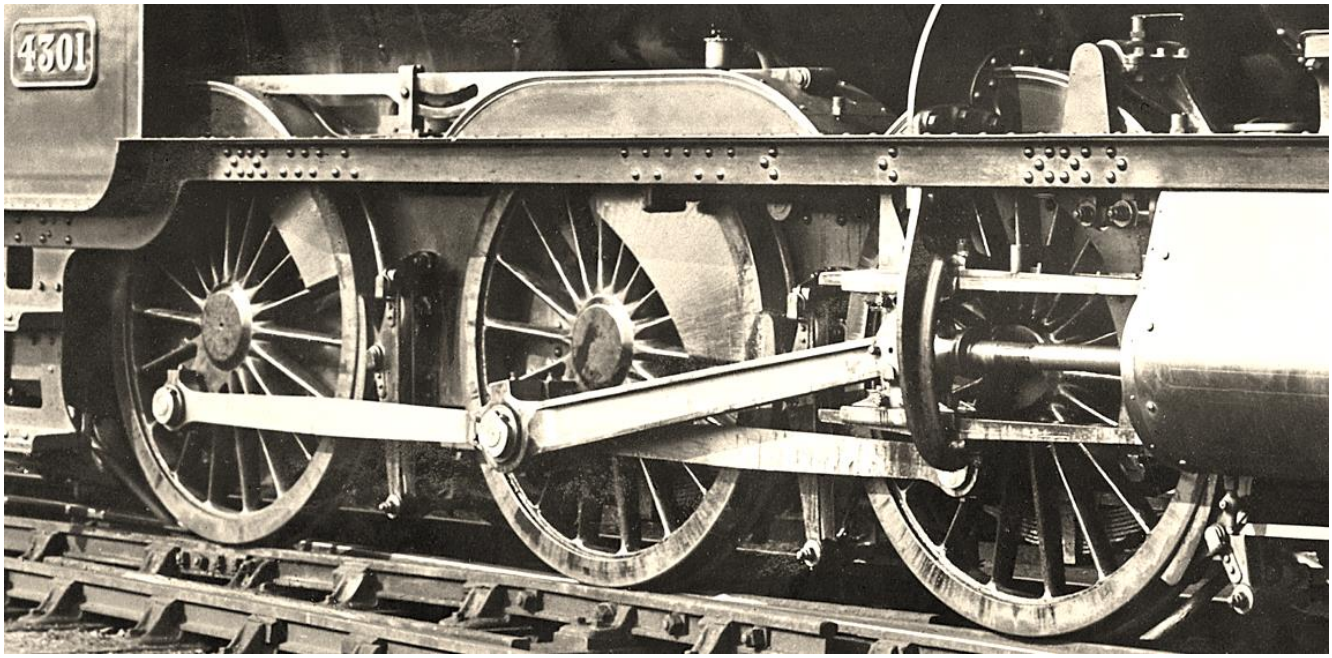
1	Brake hanger left-hand front	7	Brake hanger right hand top pin retainer
2	Brake hanger left-hand back	8	Leading brake hanger left back
3	Brake hanger left-hand top pin retainer	9	Leading brake hanger left front
4	Brake block pin retainer	10	Leading brake hanger top pin retainer
5	Brake hanger right hand back	11	Leading brake hanger right back
6	Brake hanger right hand front	12	Leading brake hanger right front