

DSB F-CLASS TANK LOCOMOTIVE

ASSEMBLY INSTRUCTIONS

DRAWING 1 (Chassis)

- 1) *Fold up etched spacer (2) and clip into position at the front of the preformed mainframe (1).*
- 2) *Fold over fixing tabs (marked X on the drawing) which project through the frames at the front. This will retain spacer.*
- 3) *Position the two machined brass spacer blocks (3 x 2) using the screws (4 x 2) (5 x 2) as shown on the illustration so that the brakegear can be fitted later in the sequence. Do not tighten the screws until both spacers and all screws are in position. Check afterwards that frames are not twisted.*
- 4) *Bend guard irons as shown, and fix two short pieces of 0.4mm wire in the holes in those at the rear.*
- 5) *Fit the cast equalising beams (6 x 2) to the etched keeper plate (7), noting that they must be inserted at an angle so that the retaining leg can pass through the slot. Also fix in place the cast ashpan (8). These may all be glued or soldered in place.*
- 6) *Fit the axle bushes (9 x 4) and the machined axle bushes (10 x 2) into the slots in the frames. Refer to the illustration for the correct positioning as the flanges differ in thickness. Retain the buffers with the keeper plate assembly, using the short M2 spacer screws (11 x 2) and the self tapping screw (12).*
- 7) *Fix the front driving wheel springs (13 x 2) to the frames, ensuring that the castings lay flat against the etchings and that they are level so that they will not touch the wheels when they are fitted.*
- 8) *Fold up and fix motion bracket (14) to the front spacer block using a short M2 spacer screw (15).*
- 9) *Solder the insulated wire (16) to the pick-up strips (17 x 4) and fix the strips to the frames using the pick-up washers (18 x 2) and the pick-up rivets (19 x 2). Fix into place by heating the end of the pins with a soldering iron where they project through the holes in the frames.*
- 10) *Fit three of the wheels (20 x 2) (21 x 4) to the three axles (22 x 3) using the axle nuts (23 x 6). Fit the wheels/axles to the chassis assembly, ensuring that the wheel with the long crankbush is in the centre. Adjust the pick-up strips to bear on the back of the polished nickel-silver tyres, bending the centre strip back on itself to bear on the rear of the centre wheels. If the pick-ups are a little loose in their holder, a minute drop of glue may be applied to stop any movement. The wheels/axles may be removed and fitted to the other side so that the second set of pick-ups may be adjusted in the same way. Note that when correctly adjusted, the pick-ups bear very lightly on the back of the wheels, but with sufficient force to remain in contact when wheels move sideways to follow curved track.*
- 11) *When satisfied with the pick-ups, fit the motor mounting block (24). Then the remaining wheels and washers (25 x 2) after first removing the centre axle and fitting the gearbox (assembled using Parts 26 to 36) and bushed axle gear (37) in place.*
- 12) *Tighten the grub screw (38) in the bushed axle gear, ensuring that there is still a little side-play on the axle and wheels. Solder the pick-up wires to the motor and test the chassis on the track. Although it may not run along the track, the centre wheels should turn when power is applied. Check that this will move the locomotive in the same direction as other models, if not, reverse the wires on the motor.*