

Notes For Guinness Locomotive Build

Hello these notes are not intended as a definitive guide to building this Locomotive but more a information sheet containing areas to be aware of and the origin of some of the parts. There is no subtle way of putting this but it has to be said up front this build is not for the faint hearted.

There are areas where great care and accuracy are needed. These areas will be covered below.

I am not trying to put off anyone just being honest so disappointment can be avoided.

Parts Bought in:

- 1) Gas Jet No5 supplier of your choice.
- 2) 1/2" dia. 0 to 80 lb. pressure gauge again supplier of your choice.
- 3) Gears www.hobby.uk.com Part No EB1 2mm thick 0.5mm module. No. Teeth 10, 2mm Bore. and Part No EB7 2mm thick 0.5mm module. No. Teeth 40, 3mm Bore. one off of each.
- 4) Hunslet Springs 4 off Lineside Delights (these could be fabricated).

All other parts are scratch.

These drawings **will** have errors please contact me with any errors / omissions. **I will** amend the drawings (robbath@googlemail.com). I am also putting together a photograph package.

The photo's are of various stages of construction and component parts. These will be by request at the previous email address. There are two reasons for this, one is the file sizes you will need broadband and secondly I would like to keep track of the models being built.

Now areas to pay particular attention to :-

- 1) Main Frames the three No 43 holes these are the motor mounting holes if these are wrong the drive gear will bind or have back clash.
- 2) Main Frames the 3/64" dia holes for the top bearing are for 14BA brass bolts. There are four shown spotted from the Top Bearing Block the others are dummies just cut them long and counter-sink and rivet them to the block. The 3/64" dia. gives a little leeway when lining up the blocks.
- 3) Main Frames there are some holes that need to be in only one side, be aware when marking out.
- 4) Frame Fittings the foot wells, the most important dimension here is the 1 7/8" getting this wrong will have an impact on the fitting of the motor and it's mounts.
- 5) Frame Fittings the foot wells, again note that some holes are only in one end.
- 6) Frame Fittings the Hunslet springs will arrive with the mounts facing down. They will need to be cut off, then cut to length and silver soldered on facing upward. There is a before and after picture in the photograph package.
- 7) Motor the drive gear is carefully silver soldered to the crankshaft.
- 8) Motor pay particular attention to the length of the Valve Retaining Bush to short and the valve will be tight to long steam will leak.
- 9) Boiler is conventional the hinges on the smokebox door are a fiddle.
- 10) **Important Note** The gas tank will need to be insulated from the side frame on which it lies. I used a thin pad or ceramic insulation. With out this the tank will get to hot and dangerous pressures can build up. Get both the Boiler and the gas tank pressure tested.

Finally I will add to these notes as needed.

Bob Bath