**LMS Bogie sideframe overlay**

This was designed by Roger S of the St Albans DMES as an overlay for the side of a metal coach bogie chassis. It is drawn from multiple sources.

Example printed on Ender 3 default settings, .4 nozzle, pictured on printer unfettled.

It was designed on Microsoft 3D Designer which might be why the file size is so large. It has flaws. In the first two layers there is a gap at the right end near the curved end and between the solebar and the left axlebox assembly. These fill over later but are visible in the final rear as a groove. The axleboxes have oval holes to give clearance for the end of an axle not for a bearing. The spring leaves try to print as two walls which gives pseudo detail but may upset purists.

If printed at defaults 20% fill and 2 side runs the body of the axlebox is hollow. Very little extra is needed for 100% and or 3 side runs to make it possible to clean out the box more.

If I can import an OBJ into a better CAD I may be able to clean up some areas.

