

LMS Coach bogies instructions Shop codes 2-160e and 2-161e

Historical Notes

For its entire existence, the LMS employed almost exclusively just two designs of coach bogie, a 4 wheel 9' design for general use and a 12'6" 6 wheel for heavyweight uses such as restaurant and sleeping cars. Initially employing riveted construction, during the 1930s welded designs were produced, although the earlier type continued to be built.

Additional parts required (with 2mm Association part numbers)

| | |
|-----------|---|
| 8 x 2-041 | Rolling stock axle bearing cups (12 for 6 wheel bogies) |
| 4 x 2-004 | 7mm Coach wheels (6 for six wheel bogies) |
| 1 x 2-198 | Coach brakes (optional) |

10BA or M1.6 nuts and bolts
paints.
solder and tools

Assembly instructions

1. The four wheeled bogie etch allows construction of both riveted and welded variants of the LMS 9' bogie. Decide which you wish to build. The six wheeled bogie only covers the welded version.
2. Cut out the bogie stretchers, and solder the axle bearings in place. **Do not** fold up the stretcher at this point.
3. The etched bogies layers are built up on the stretcher one at a time, using the axle bearing as location points. Solder them to the stretcher first, and only cut them from the fret **after** this. There are five layers, as follows: inner side, outer (cosmetic) side, springs, inner axlebox, and outer axlebox. Note that the springs and axleboxes are set at the correct wheelbase, so both can be soldered at once to the side, aiding their correct location. The outer side and springs layer has alternative parts for the welded bogies. Make sure the footboard locating slots on the inner side remain free of solder.
4. Having performed Step 3 for both sides of the bogie, the stretcher may be folded up and soldered. Insert wheels and test for free running. Remove them again.
5. If desired, coach brakes (Association part 2-198) may be fitted.
6. Fit footboards according to prototype. Generally Period I stock had full length footboards on all bogies Later shorter footboards were fitted at the outer ends of bogies, and often only at brake ends. Fold the profiled section over 180 degrees and solder to the lower section – or simply cut it off if you don't wish to include it. Fold down the locating straps to almost 90 degrees. Insert the locating straps into the slots provided in the inner sides of the bogies.
7. Foldup bogie mounting boxes are provided. Fold these up. Solder or otherwise fix a nut (10BA recommended) either within the box, or to the coach floor.
8. Spacing washers are provided to set the bogie at the correct height. Using these, and bolts, mount the bogies on the underframe. **Note:** for the six wheeled bogies, the central pair of wheels must be removed to access the mounting screw.