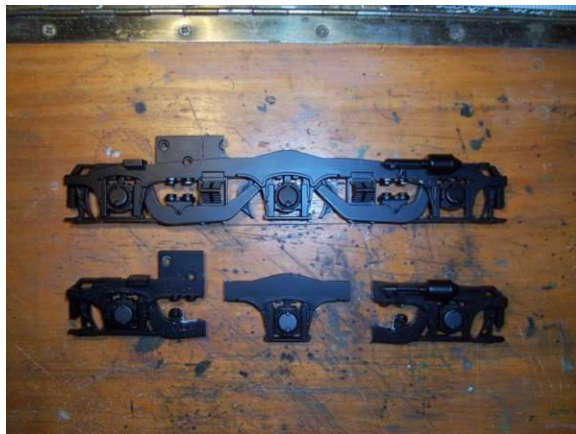


The 1620 Class – Diesel Electric, Co-Co, 60 tonnes.



The model of this Queensland Railways Loco uses USA Trains SD-40 motor blocks.



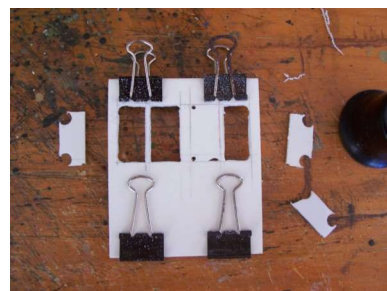
Removed the standard wheels, replaced them with bigger wheels. The flanges were too small, so reverted to original wheels (smaller).

Used PA-1 Loco side frames seen here before being cut down.



Motor block with Bigger wheels fitted, PA-1 side frames, cut and reworked.

Front Bogie was initially an 'idler', but is now a 2nd USA Trains motor block.

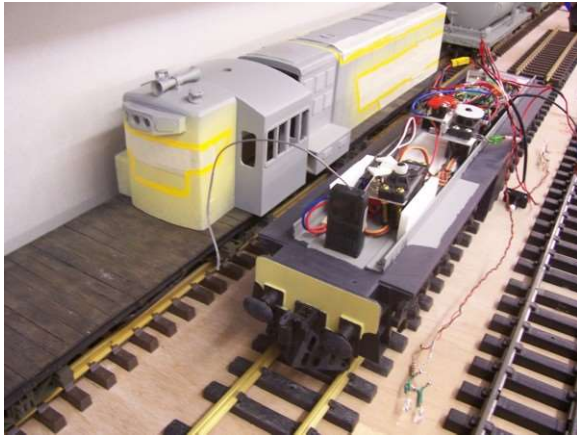


250mm diam Plastic pipe "slit" to width to be glued between "Hood" sides

A mitre box was used to cut 45 degree angles for gluing ends to tops for "Hoods".

Cab sides clamped together so that windows can be fretted out.

The 1620 Class – Diesel Electric, Co-Co, 60 tonnes.



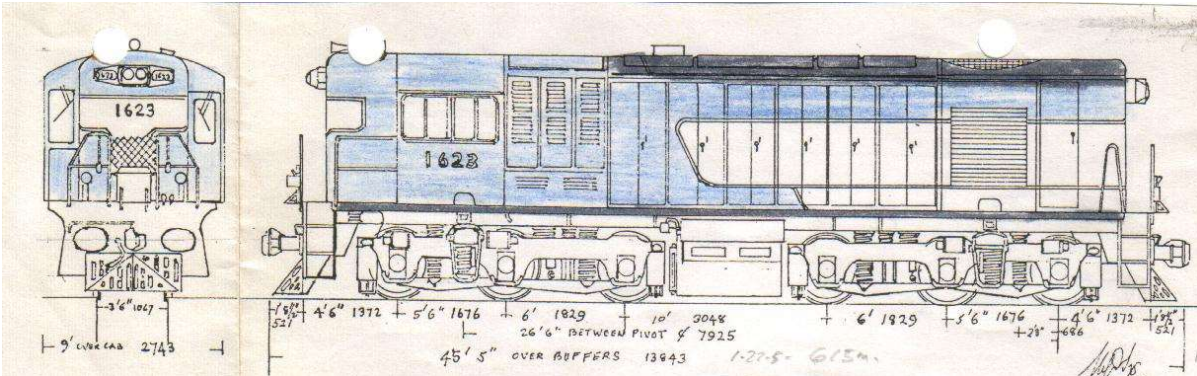
Sub-assemblies trial fitted, test run of R/C gear. Masking, primer and Yellow lines, ready for Blue paint. All wiring is done; R/C, Sound and lights, side frames need sand boxes and more springs.



Indoor shot, Blue colour is done, Outdoor shot, decals yet to be done.



1620 Class, Loco No. 1650 freshly painted



Drawing of 1620 Class loco used to make model.

The 1620 Class – Diesel Electric, Co-Co, 60 tonnes.

In 2013, previous problems with trailing wagons being derailed as this Loco entered curves was the reason a drastic step was taken to horizontally 'split' the Buffer Beam / End Plates.

BEFORE



AFTER



The 'Split' is just above the Buffers. Now the Buffers, Couplers and Cow Catcher are mounted on the Lower Buffer Beam / End Plate which is fixed to the Bogie and thus follows track alignment better.

While this is not at all prototypical for the 1620 Class, the technique was used on other real Queensland Railways Locos.



The Upper Buffer Beam / End Plate remains fixed to the Loco Floor Plate.

The marked improvement in tracking , coupler side-play and avoidance of derailments has reduced operating frustrations and is worth the compromise in appearance.

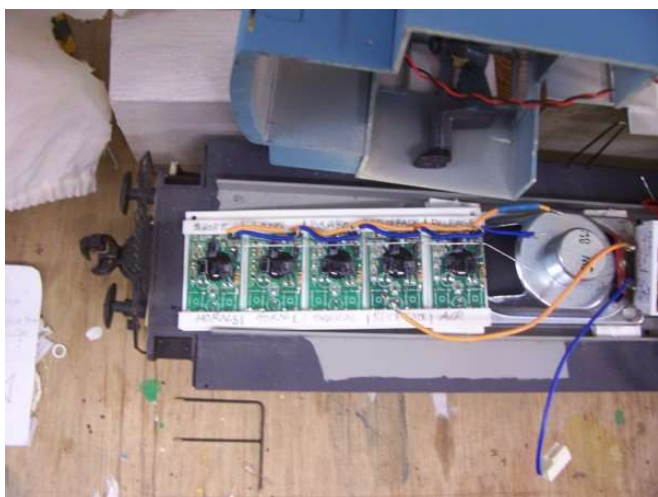
The 1620 Class – Diesel Electric, Co-Co, 60 tonnes.

During 2014, a problem arose with the sound system.

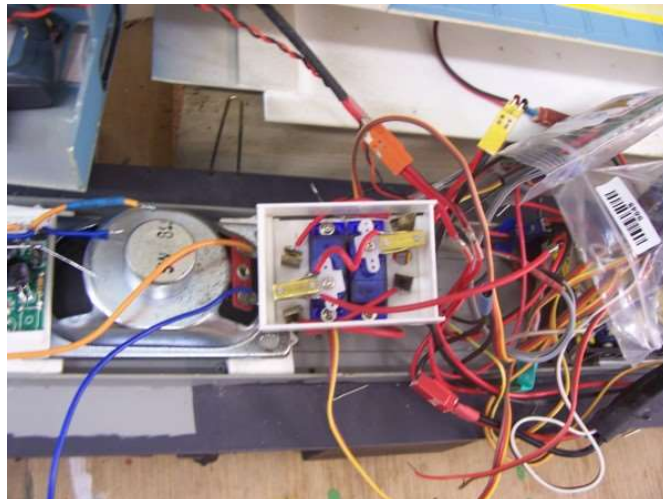
So the interior of this Loco was rearranged with an enhanced sound system.

It comprises a MyLoco sound card for the engine sound, plus five (5) 20 second duration sound cards with other sounds.

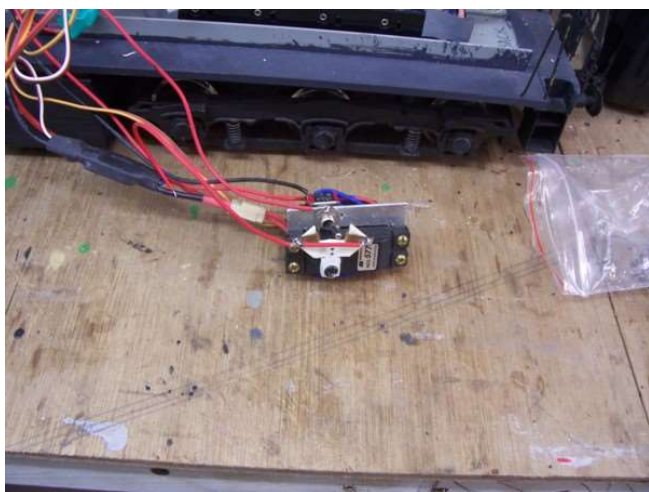
Horn “Short”, Horn “Long”, “Air Release” of Brakes, “Rev and Fade” engine under load, Brake “Squeal”.



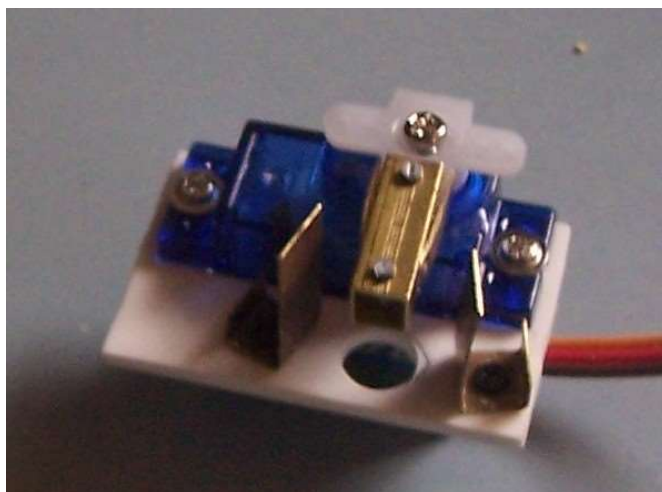
The five sound cards each 20 seconds duration.



Switching mechanism driven by 2 mini servos



A 5th Switch is a combo “Direction” servo, that turns ON the “Air Release” at limit of servo travel.



One of the sub-assembly mini servos and 2 contacts, they are selected for the other 4 sounds.

The 20 second duration Sound Cards are recordable and are available from Electronics 123 in USA.

<http://www.electronics123.com>

