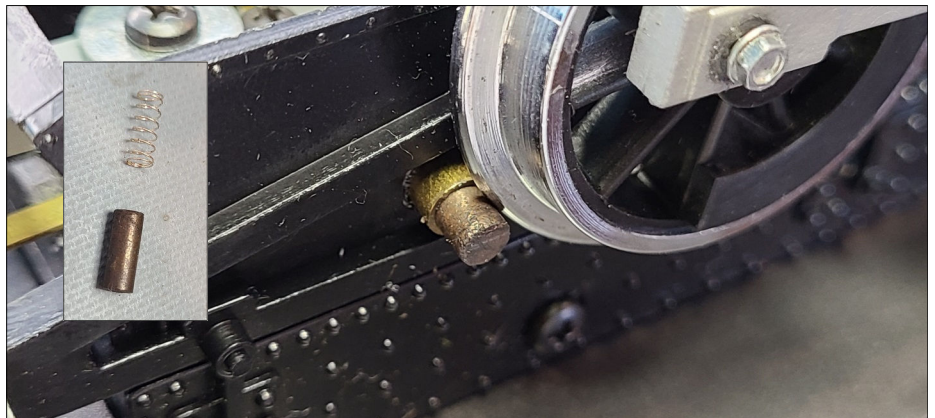


Delton C-16 Battery Power Conversion

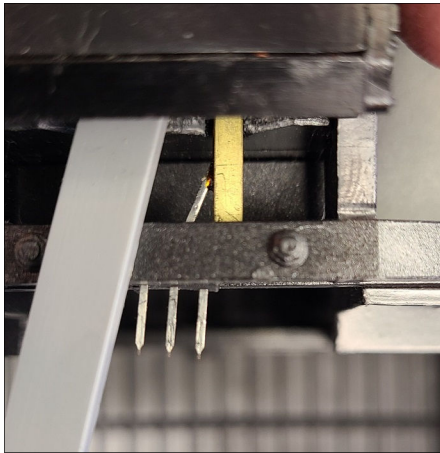
by Del Tapparo

I was asked to convert a “New in the Box” Delton C-16 to battery power. What a find! Aristo Craft made these for many years after Delton. I installed a RailBoss 4 Plus, a MyLocoSound Steam sound card, a 2.5” speaker, a Battery Conversion Module, and a 14.8V Lithium Ion battery pack in the tender. Two wires between the tender and loco are for motor power. The front light will still be powered from motor voltage as it was on track power. A power on/off switch, charging jack, and sound card IR receiver was mounted on the front side of the tender. Chuff magnets were installed on the tender wheels.

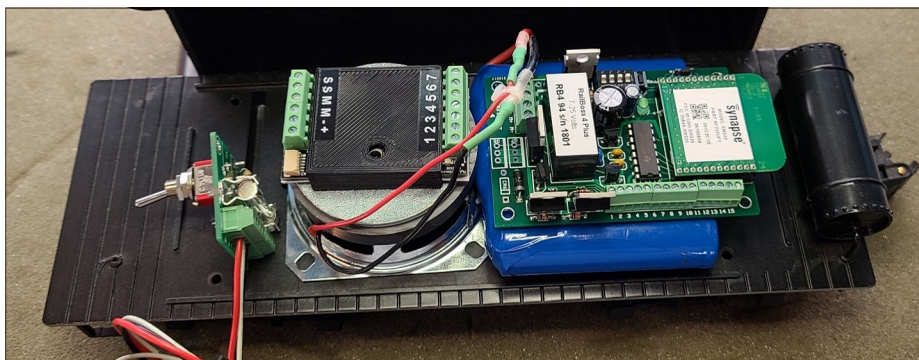
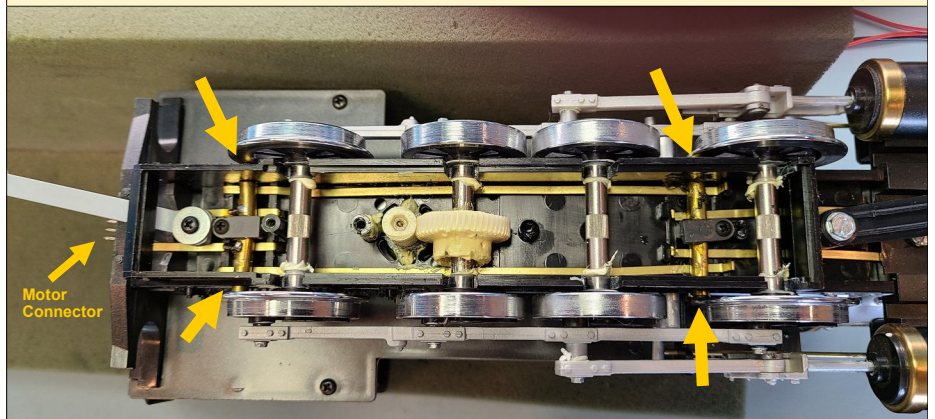


Spring loaded brushes rubbing on the backs of the drive wheels provide track power pickup. (Shown here partially disassembled).

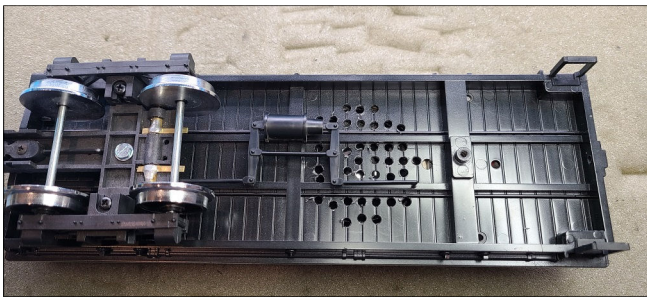
Open bottom of the motor block to remove four of these, to isolate the motor from the track.



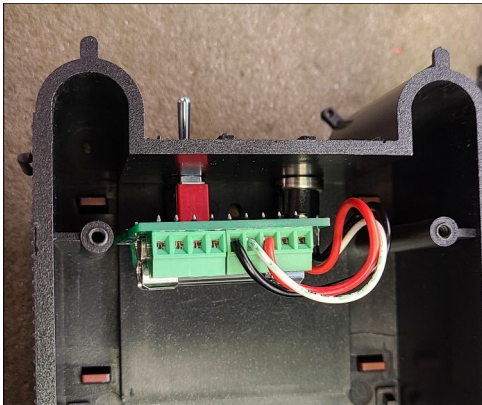
Motor connections at rear of loco (bottom view). Right two pins may or may not be shorted together. Use the two left pins to solder on a 2-wire locking connector.



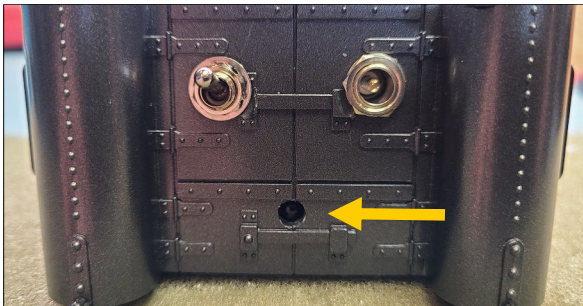
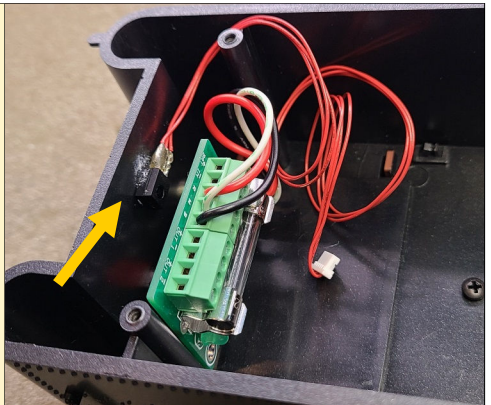
Planning is the key! Carefully test fit and plan for functionality. Looks like everything is just going to fit in the tender by using a smaller 2200 mah battery pack and a 2.5” speaker. I would prefer a 4400 mah battery for the extended run times needed during an open house (6-8 hours). 2200 mah is still good for an easy 3-4 hours.



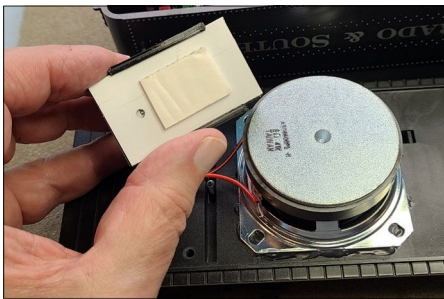
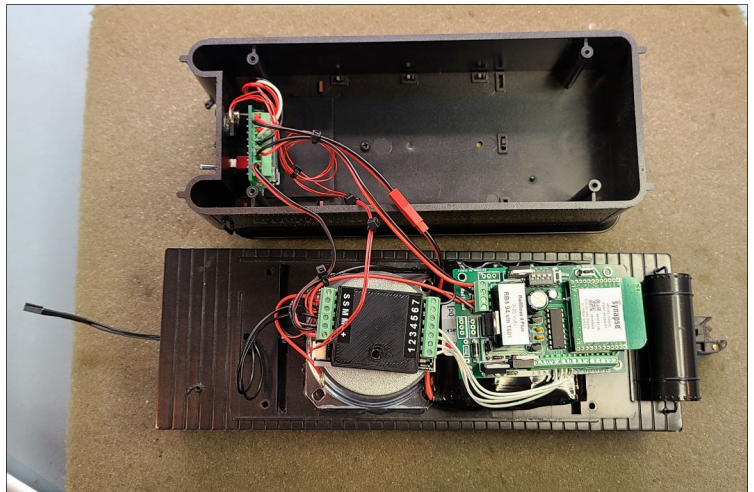
After determining speaker placement, holes are drilled and the speaker is glued in place with silicone adhesive.



Battery Conversion Module power on/off switch and charging jack (left). IR receiver for MyLocoSound volume control and configuration (right).



Control Panel



Protective cover and backing on the sound card to insulate from metal speaker. Card is then mounted to speaker via double sided foam tape.

