

NorthWest Short Line

POWERING the:

Mr. ROGERS #1 gauge, single truck TROLLEY



The NWSL #8690-4 motor truck provides a simple, one step powering choice for the cute Mr. Rogers trolley. Resulting in an operating trolley with smooth, quiet, realistic operation on standard #1 gauge track such as LGB, Aristo, Bachmann, Lionel and others. The #8690-4 truck size permits it to fit the existing hole in the trolley base. It is secured in place with 4 screws (not provided) into the existing siderail holes which serve to clamp the trolley body to the #8690-4 power truck. The installation is surprisingly simple...with this fine quality, made in U.S.A. power truck. The #8690-4 can operate completely independent, or the wiring can be accessed for powering lighting or for battery or other electrical control systems. We here describe the general method we used which can be accomplished in about 30 minutes if proper materials and tools are on hand.

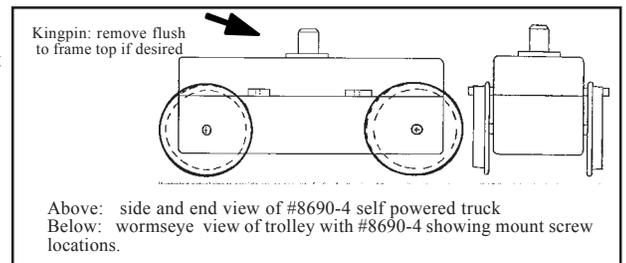
Tools required: Screwdriver; Hand drill or drill press; #22 or #23 or 5/32" or 4.0mm drill bit, soldering tool, electrical tape.

Skill required: This job assumes you have reasonable proficiency in disassembly/assembly of mechanical devices. If not, your learning experience here will be valuable despite problems you may encounter in achieving quick and satisfactory completion.

Time required: About 20 minutes

Parts required: NWSL power truck #8690-4; . (for slow operating speed range, custom order slow speed option).
4 screws—10-32 or similar x 1" or 1-1/8" (sheet metal, self tapping or drywall screws work fine).

1. Fit the trolley body down over the truck and consider how high you will want the carbody. We liked it with the bottom of the car floor (body) flush with the bottom of the sideframe hanger tabs on the truck (also makes alignment simple). Determine if the kingpin contacts anything in the carbody (seat, etc.)—it shouldn't, but if it does, you will need to cut the kingpin down (without damaging the wires inside).
2. Prepare the #8690-4 truck. Electrical provisions must be attended to:
 - If you will be running track power with no special electrical apparatus, just connect the red and brown wires (for reliable contact, solder them together) and protect the bare wire with electrical tape. Also protect the bare end of the black wire with tape.
 - If you will be using battery power or sophisticated electrical circuitry, connect it now.
 - The black wire taps one motor terminal and the wheel wiper pickups on one side.
 - If you want the rails isolated—you will need to open the truck to disconnect the wire to the wipers.
 - The red wire taps the other (rail) two wheel wipers. The brown wire taps the other motor terminal.
 - If you are installing lighting, connect them to the black and the red wire. Track test the truck to assure it operates satisfactorily.
3. When satisfied with operation, proceed to final assembly. Run the four screws into the pre-drilled holes (if your unit does not have the siderail holes drill them centered vertically on the siderail and about one inch (25mm) apart centered on the length of the siderail (exact separation is not critical). Don't worry about tapping—the screw thread will do fine. Run the screws in to secure the carbody to the truck. Test and adjust if and as necessary.



Installation 9-2001 by F R Martin

You can accomplish similar operation quality improvement in other mass manufacture models.