

G-Scale Brush Car



Materials needed for Brush Car project:

1. Shortest flatcar you can acquire.
2. A bottle brush of the size you prefer.
(Selection is at the wine making shop.)
3. Motor, any DC electric powered unit.
(I had one left from a G-Scale engine.)
4. Strap aluminum, about 1" X 1/8"
(Source from hardware store.)
5. Battery, your choice, same voltage
as motor.
(I used an Air Wire Lion battery.)
6. Brass tube to fit over both cut ends
of brush wire. (If desired.)
7. Gears and chain. (From Micro Mart)
You can also use o-rings and pulleys.
8. Box or mount, something to hold battery.
(optional)
9. Miscellaneous nuts and bolts.
(I also used pop rivets.)
10. Off/On switch.
11. Shield material, metal or plastic.





Production/Assembly Instructions:

Cut the flat car off so that the truck wheels are exposed at the end of the car. The closer you can keep the brush to the truck the better it works on corners. Cut the brush wire the width of car, plus longer on the non gear side by a ½” and on the gear side ½” plus additional length for the gear to attach. Cut the brass tube to fit over the ends of the brush wire. I had some bearings in my scrap drawer so I used them (but, it isn’t necessary). Whatever the total length of the brush, make certain it clears the width of your tunnels and bridges.

Cut the arm brackets for the brush first. I made the arms long, making it easier to mount everything and keep it straight. Bend the aluminum strap into a U so as to accommodate the width of the brush. When drilling holes for the motor make the holes elongated so you have room to adjust the tension on the o-ring or chain. On the side arms of the brush assembly, where they mount to the car, I used bolts with lock nuts so the arms can swing up and down. This along with a threaded bolt thru the car body, behind the brush itself, will allow you to adjust the height of the brush. The shield isn’t necessary, but it keeps everything from flying everywhere. When hooking up the wires to the switch, if the motor runs backward just swap the leads to the battery or motor.