

## WCRG Shunting Requirements For Excursion Participant's Track Cars

All excursion participants track cars must be equipped to shunt track circuits to activate automatic warning devices. Shunts must be connected at rear axle, from axle nut to wheel bolt. Left side must be secured with a thumb screw to allow for deactivation when required.

***WARNING - Shunt kits sold by WCRG are designed for use on WCRG excursions only under the direction and supervision of WCRG trained and qualified personnel. Use of WCRG shunt kits, or WCRG'S shunt design on a non WCRG excursion, or any other railroad operation outside of WCRG's control may result in property damage, personal injury, and / or death. User assumes all liability when purchasing, installing, and operating with WCRG shunt kits.***

### **Instructions/parts required to shunt track cars for WCRG excursions:**

\*Drill and tap the rear axle nuts on both sides. Drill and tap one wheel bolt to 5 /16 on both sides. 1 3/16 axle (M9/M19/MT19 etc.) tap the axle nut to 1/4 inch. 1 7/16 axle (M14/MT14/S2 etc.) tap the axle nut to 5/16 inch. Both should be tapped for course thread.

\*Obtain four- #6 copper wire lugs, common at NAPA auto parts or other parts suppliers as well as #6 AWG THHN stranded wire, one metal thumb screw, one plastic thumb screw, and plastic washers available at home improvement stores.

\*Assemble shunts, including crimp and solder ends of each wire lug.

\*Use a plastic nylon thumb screw and nylon washer for insulated operation and a metal thumb screw for shunted operation on left side of car. Right side is permanently attached. Only left side needs to be cut in or out.

\*Push-cars will be equipped with thumb screws on both sides.

Wheel Shunt  
Left Side  
Showing  
Thumbscrew  
for  
Activation/De  
activation



Wheel Shunt  
Right Side

