

INSTALLATION

1. Remove your old fuel tank from your engine by removing the four (4) phillips head screws.
2. Remove the front long hood by removing 8 phillips head screws.
3. Plug in the track wire connector in the engine, mount the inductor to the floor and route the other end through the hole in the floor into the fuel tank area.
4. Route the speaker wires up into the upper body and plug in to the existing speaker wire plug.
5. Plug in the track power wire to the circuit board located on the locomotive floor.
6. Reinstall the long hood with the 8 screws removed earlier
7. Install the new fuel tank in place of the old one with the 4 screws removed earlier, route and attach the reed switches for the horn and bell as shown and mount the cab talk reed switch under the floor along the edge of the engine.
8. The installation is complete. Put the engine on the track, turn off the motor switch located under the cover on top of the hood and apply power to the track.. The sound will come on at 3 volts unless the battery requires charging.

BATTERY CHARGING

At this point the installation is complete. The next step is to charge the batteries. **THE BATTERY INCLUDED IS A 6 VOLT NI-CAD RECHARGEABLE BATTERY. DO NOT USE BATTERIES OTHER THAN RECHARGEABLES OR SERIOUS DAMAGE COULD RESULT.**

The batteries must be charged initially for 10 to 12 hours at 12 to 14 volts. Place the car on the track and turn the speed up to 12 volts. The sound will come on. Turn the volumes down so the sound is just audible and allow to run for 10 to 12 hours. The charging circuit built into the board will do the rest. Depending on the speed at which you run your trains (i.e. the voltage) future battery charging may not be required.

OPERATION

At 2.5 to 3 volts of track power, the sound comes on in the idle mode. The motor speed will increase automatically as the voltage to the track is increased. The bell and horn functions in the AUTO mode are actuated by the reed switches passing over the magnets attached to the track ties. The cab talk may be actuated by a reed switch mounted on a sign post alongside the track.