



## **Bachmann Anniversary 4-6-0**



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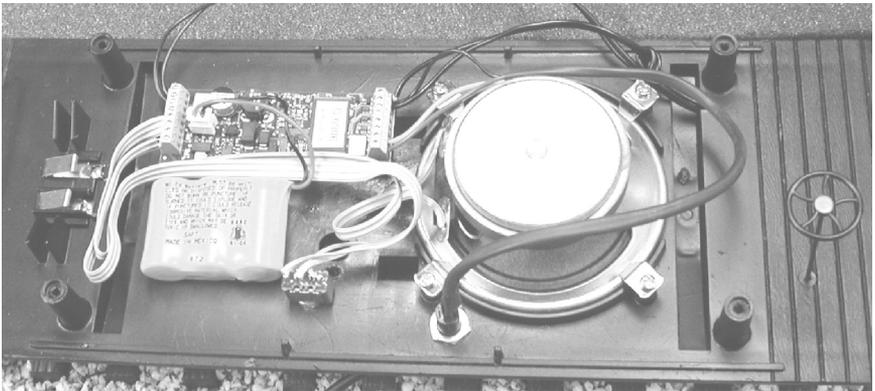
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## Remove existing sound

Open the tender and remove the existing chuff sound board, speaker, volume switch and battery. To do this, cut the Green and Brown wires close to the existing 9 volt battery terminals. Cut the Red and Black wires close to the sound board. These wires will be used later if you use the Bachmann contacts. Keep the speaker screws and mounting brackets, they will work on your new speaker also.

## Mount the System Components

Everything will fit comfortably on the tender floor. Drill a 1/4" hole for the volume switch & a 19/64" hole for the access jack (or ream out a 1/4" hole).



## Track Power Wiring

There are 2 pair of wires running between the tender and locomotive, they are marked "Sound" and "Light". The pair that goes to the "Light" connector powers your back-up light. You can use these to power your Phoenix Sound System. You will need to add wires to go from the "Light" pair to terminals 1 and 2 on the sound board. Splice into the red wire anywhere and connect it to terminal 1. The black wire needs to be spliced into BETWEEN the resistor and the plug running to the locomotive. Do not splice into the wire between the resistor and the Back-up LED light.

## Chuff Trigger Connection

The pair of wires that goes to the “Sound” plug are the chuff wires. Connect these to terminals 15 & 16 on the 2K2 or 10 & 11 on the PB9. It does not matter which wire goes to which terminal for these. We also supply a reed switch and axle magnets with your kit in case you prefer the maintenance free axle magnet/reed switch configuration. (See the BigSound™ Handbook.)

## Contact Cleaning and Insulation

When using the Bachmann contacts, it is necessary to add some insulating washers (supplied) in order to prevent track power from entering into the chuff contact circuit.

**FAILURE TO DO THIS MAY DAMAGE YOUR SOUND BOARD.**

You will need to turn the locomotive over and take off the bottom gear/wheel cover. This will involve 4 screws on the bottom of the locomotive along with 4 small screws on the top of the cow catcher.

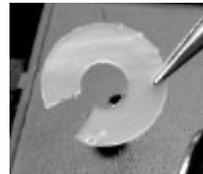
Remove the cover. This will expose the wheel sets. The front wheel set is where you will find the Bachmann trigger. It is the 2 thin metal strips touching a barrel that has metal strips on it. Clean off all the lubricant in this area. It is a non-conductive lubricant and interferes with good electrical contact between the barrel strips and the wipers. Insert the washers and reassemble.

### WASHER DIMENSIONS

0.687" OD

0.250" HOLE

0.040" THICK



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