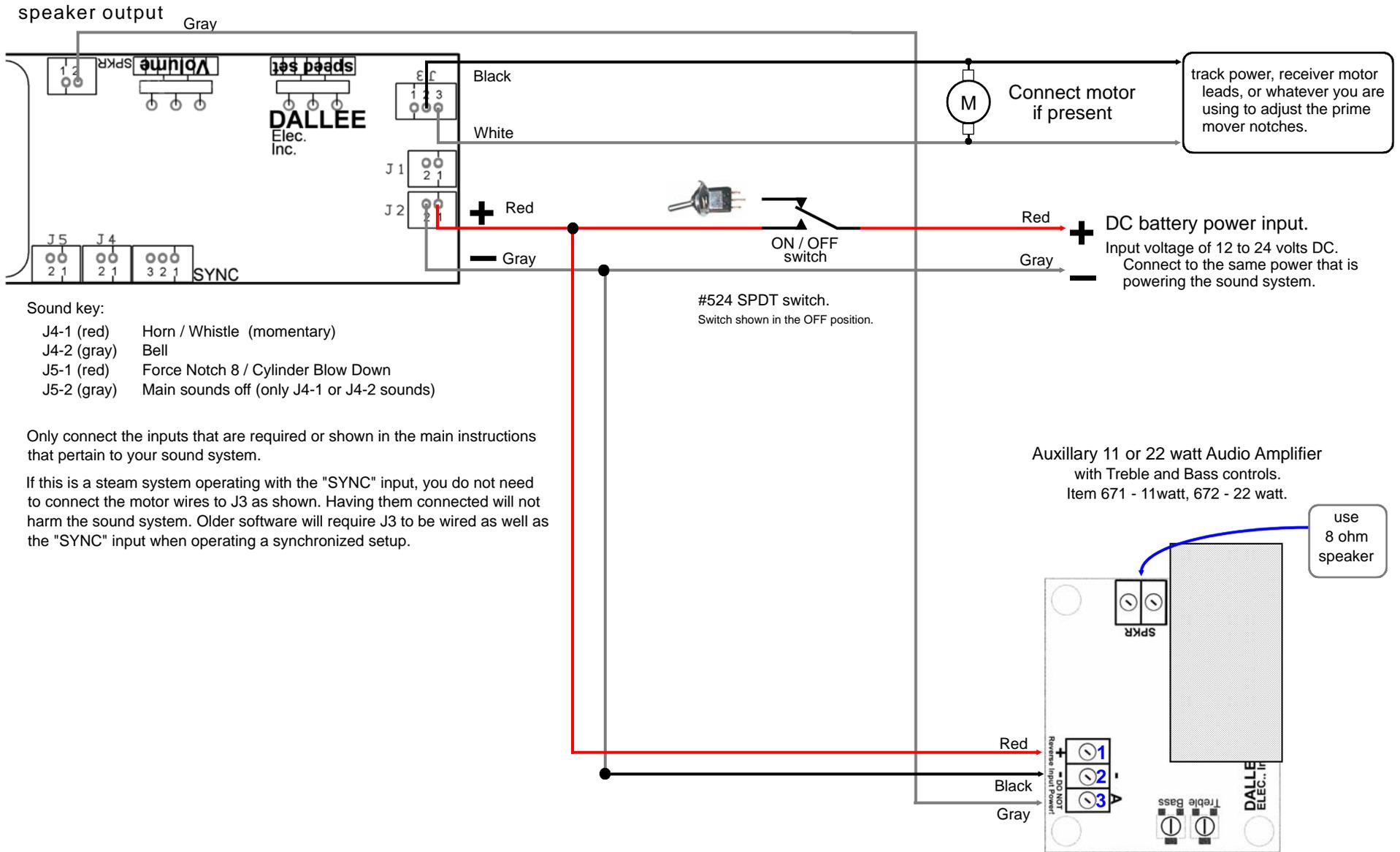


## **Application Note: Using DCv3 type sound systems with auxillary amplifier.**

Various applications of the DCv3 sound card are shown on the following pages in conjunction with a DALLEE amplifier (item 671 or 672). Bear in mind that the amplifier works from DC power and at least 10 volts and not more than 24 volts. Therefore, the ideal application is from either a battery powered system or via constant track power with or without a battery. Although not shown, all application wiring is the same for fixed track voltage except that the system would not connect to a fixed battery as shown but rather the input from the track would power the system via J1. All other connections would remain the same. For the advanced user, you can also wire the systems to charge your battery in the same manner as shown in the main instructions of the sound system. However, a fixed resistor value would most likely not recharge the high current type batteries required to operate the sound system's amplifier! When using an auxiliary amplifier, you must also use a power source capable of supplying enough current. Therefore simple 9v batteries are out of the question, and larger AA or C to D type battery configurations are necessary. Other manufacturer's offer battery configurations with chargers necessary for this task. "G" operators, and others that can fit the larger batteries, should consider the Lithium Ion battery packs and chargers as offered by AristoCraft Trains.

# Using Single sound system with auxillary amplifier.



## Sound key:

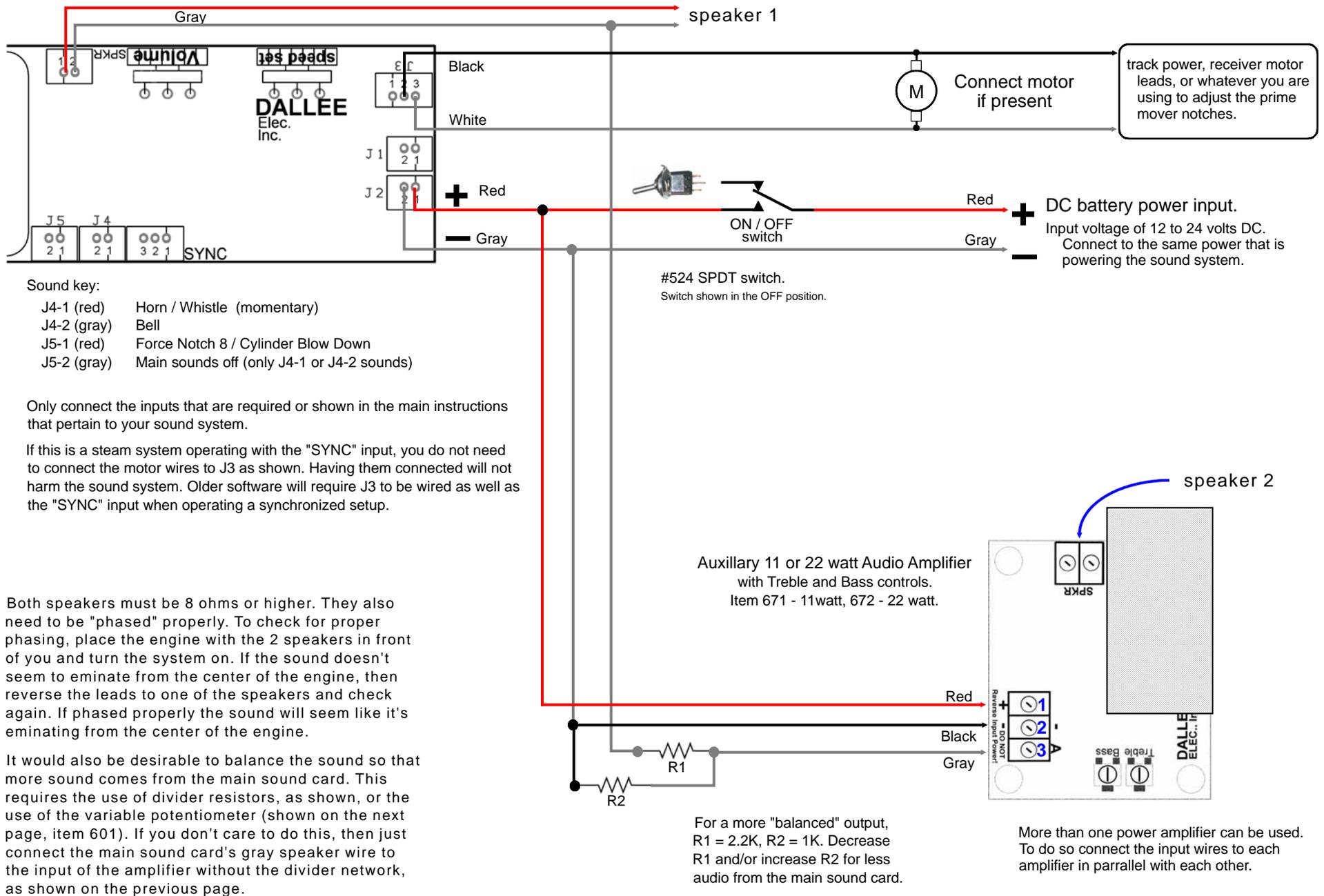
- J4-1 (red) Horn / Whistle (momentary)
- J4-2 (gray) Bell
- J5-1 (red) Force Notch 8 / Cylinder Blow Down
- J5-2 (gray) Main sounds off (only J4-1 or J4-2 sounds)

Only connect the inputs that are required or shown in the main instructions that pertain to your sound system.

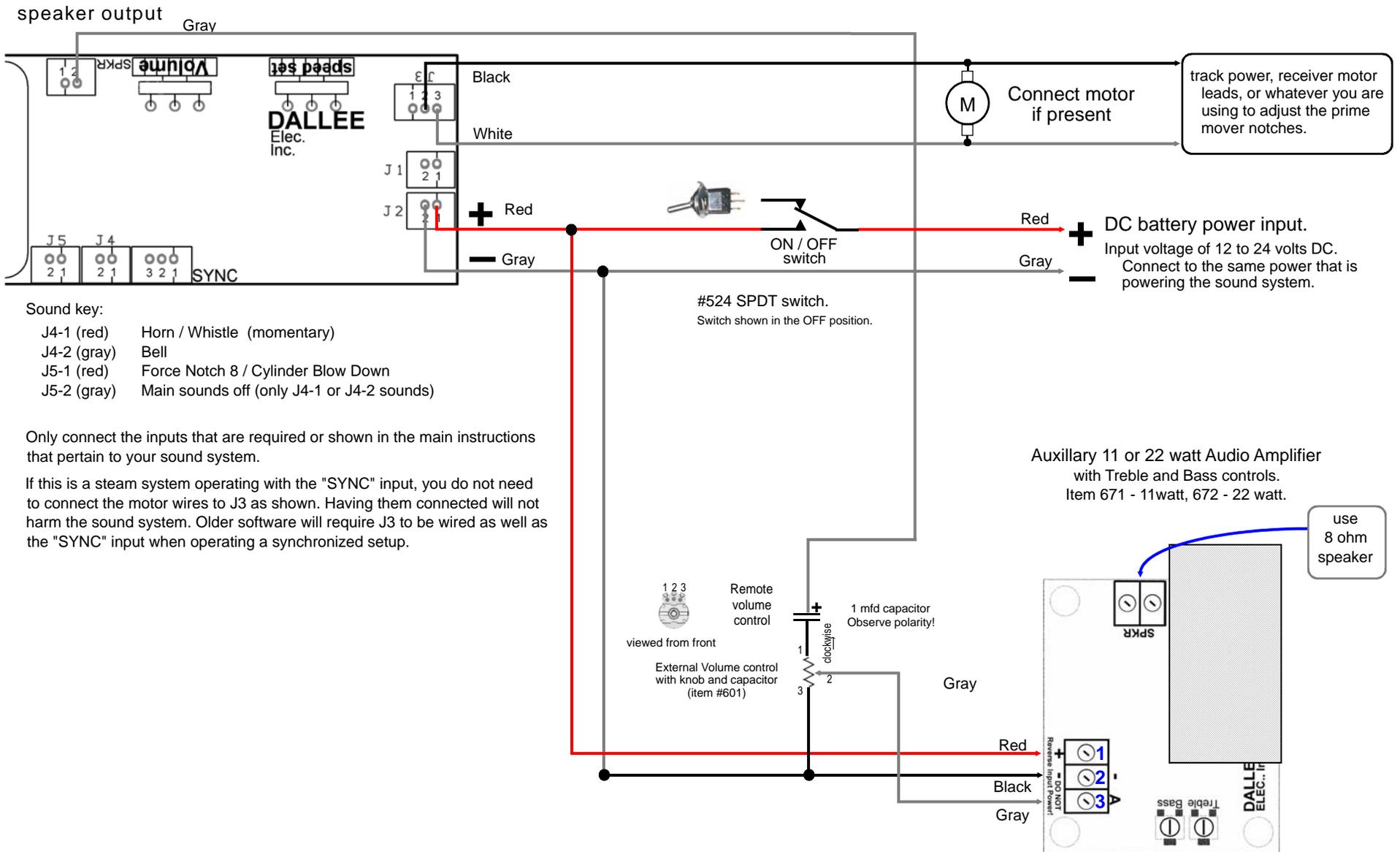
If this is a steam system operating with the "SYNC" input, you do not need to connect the motor wires to J3 as shown. Having them connected will not harm the sound system. Older software will require J3 to be wired as well as the "SYNC" input when operating a synchronized setup.

More than one power amplifier can be used. To do so connect the input wires to each amplifier in parallel with each other.

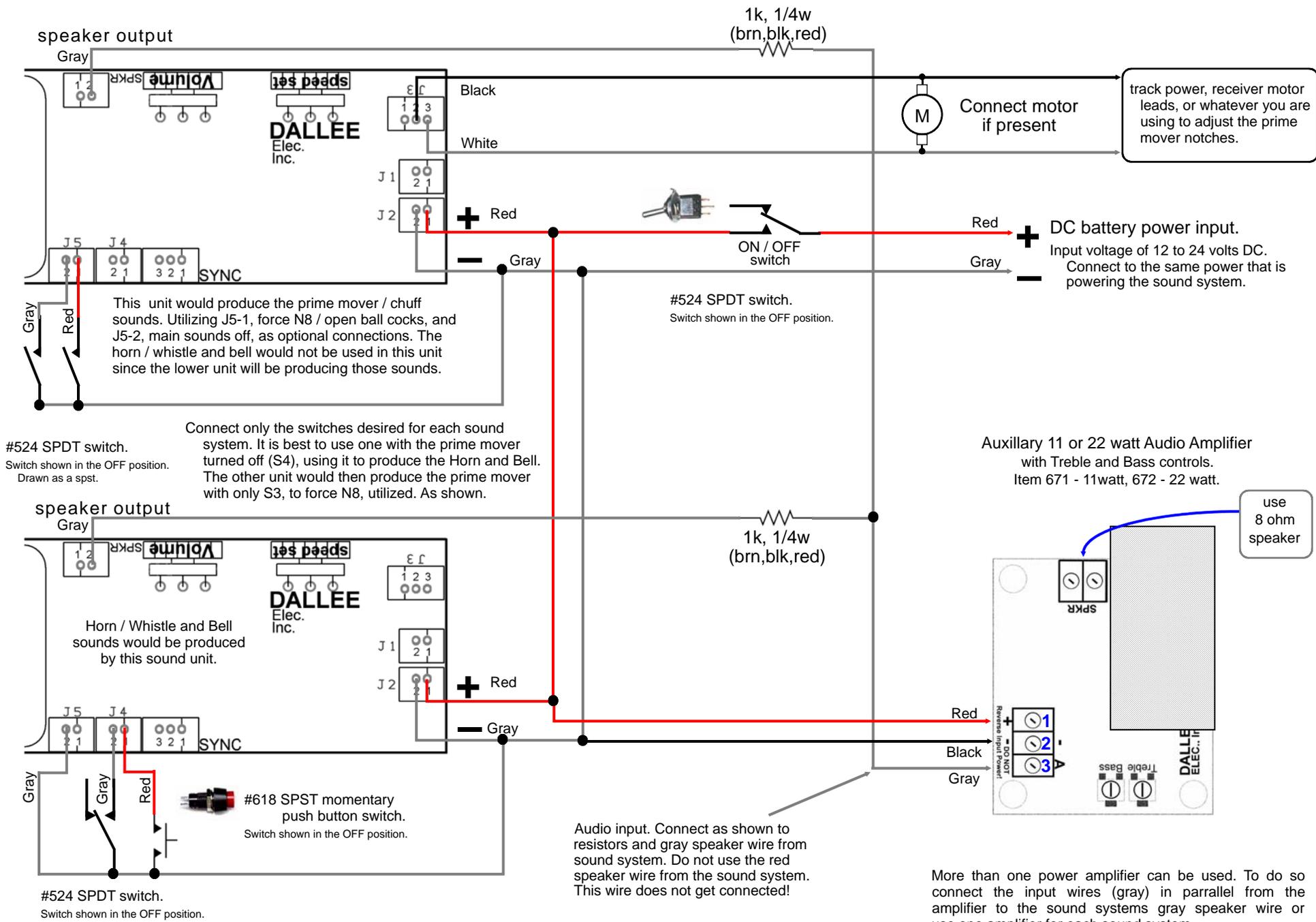
# Using Single sound system with auxillary amplifier and 2 speakers.



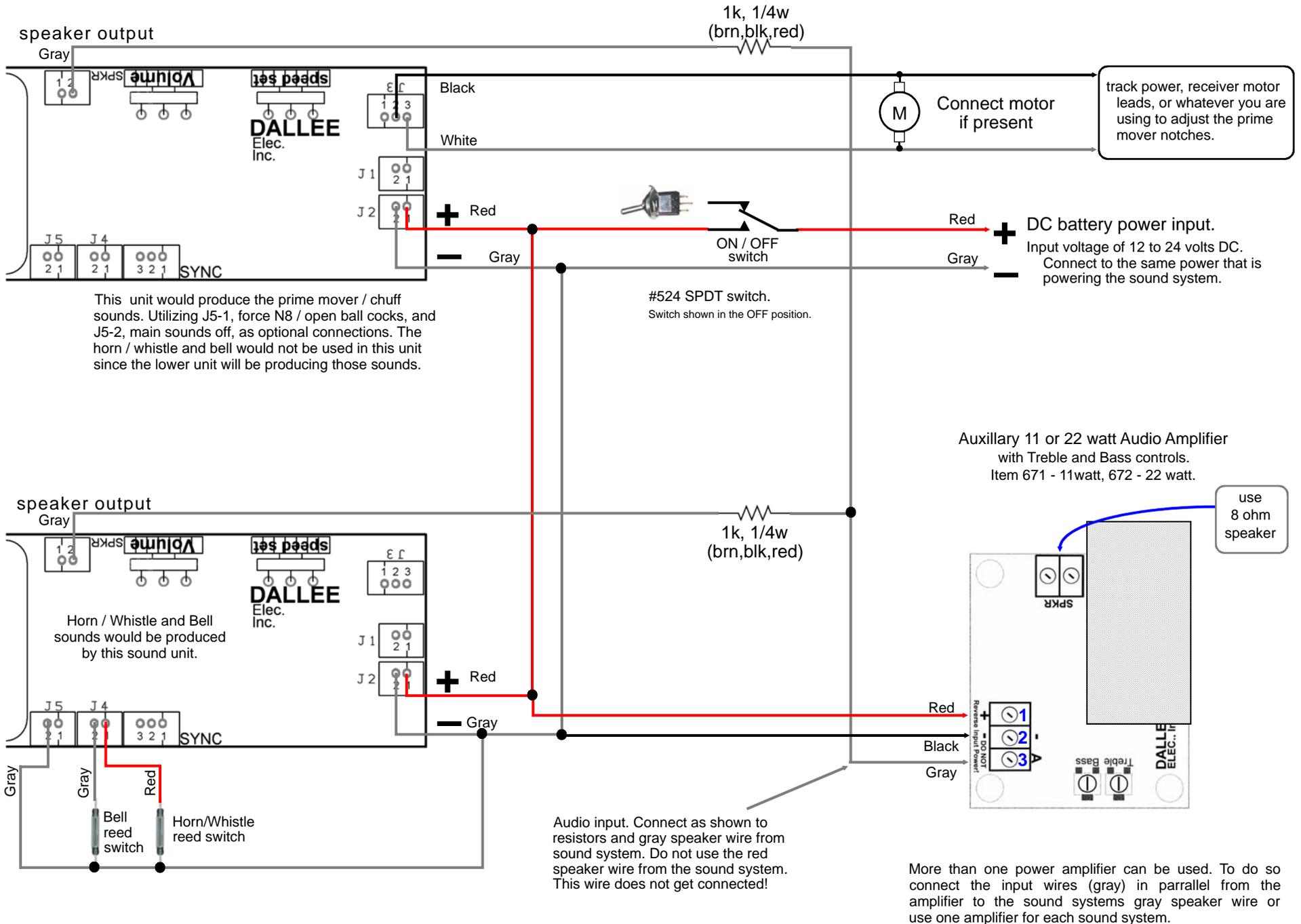
# Using single sound system and auxillary amplifier with remote volume control.



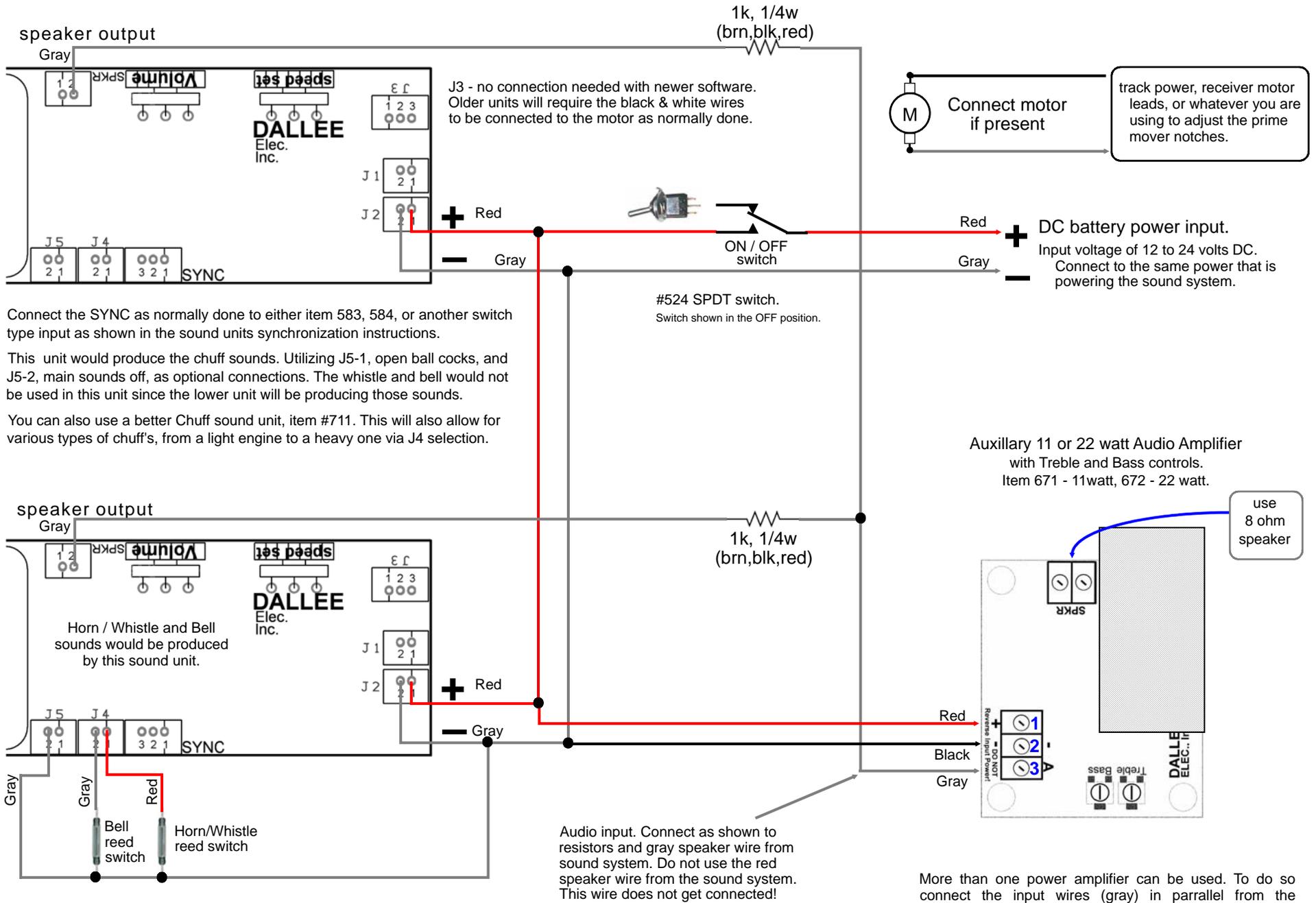
# Using dual sound systems with an auxillary amplifier.



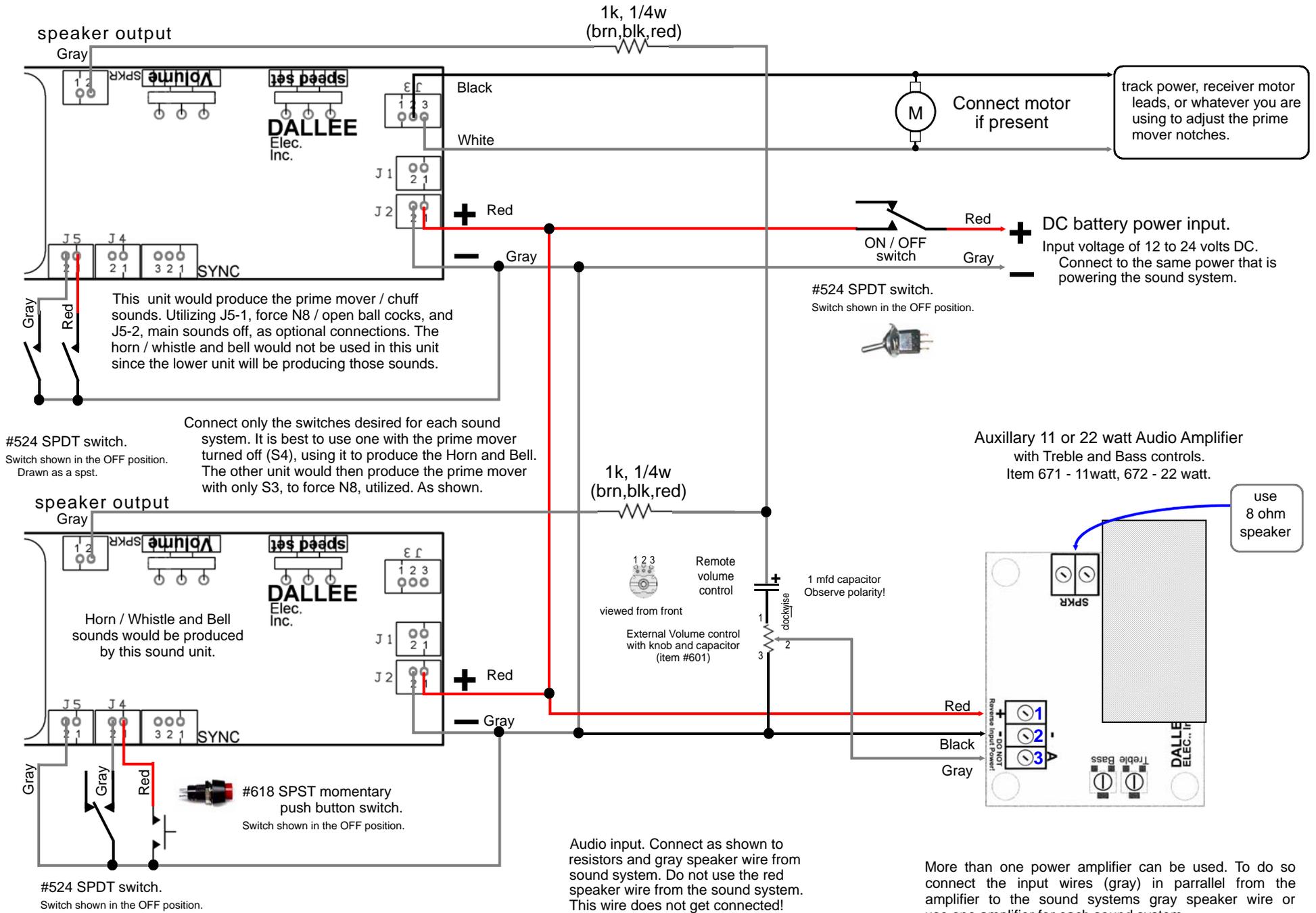
# Using dual auto-whistle/horn sound systems with an auxillary amplifier.



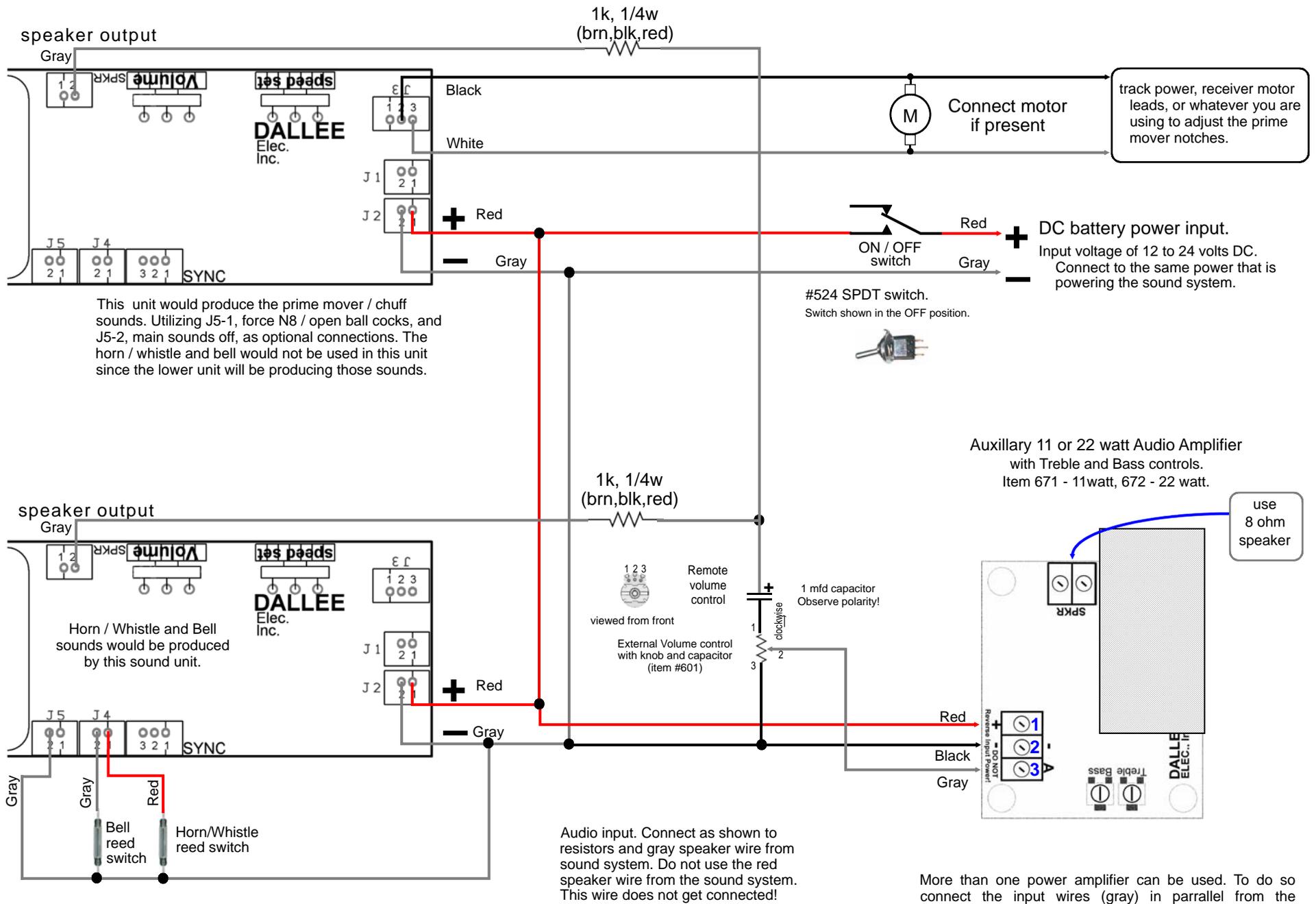
# Using dual auto-whistle sound systems with synchronized chuff and an auxillary amplifier.



# Using dual sound systems with an auxillary amplifier & remote volume control.



# Using dual auto-whistle/horn sound systems with an auxillary amplifier & remote volume control.



# Using dual auto-whistle sound systems with synchronized chuff and an auxillary amplifier & remote volume control.

