

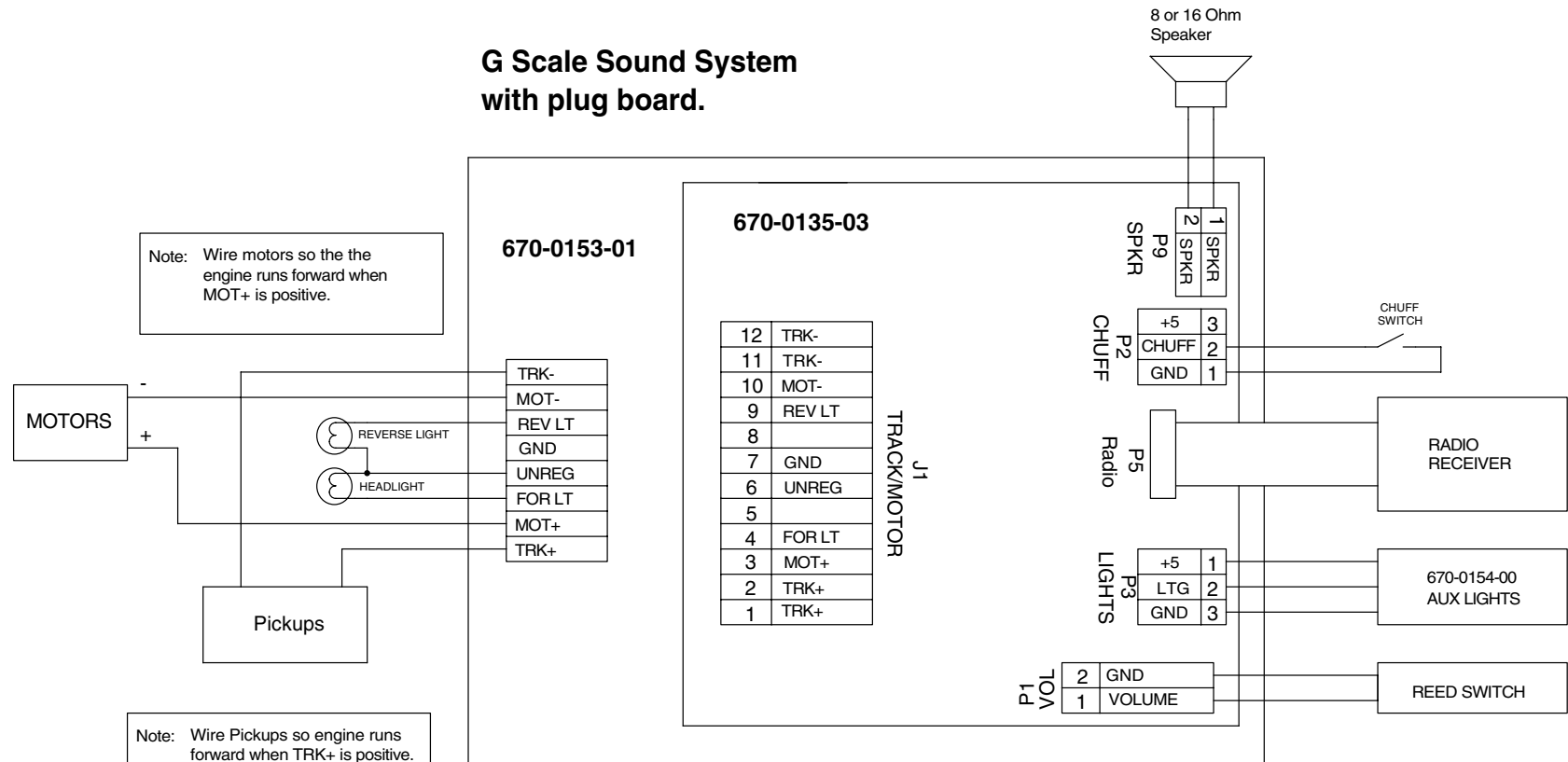
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G Scale Sound System with plug board.

Note: Wire motors so the engine runs forward when MOT+ is positive.

Note: Wire Pickups so engine runs forward when TRK+ is positive.

Note: Bottom board may be cut at white line.



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 Ph: 503-350-0595 Fx: 503-626-9995

Title **G Scale Sound System**

Size B	Document Number	Rev 1
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670-0135-03 PLUG CONNECTIONS

Notes:

General

Maximum peak operating voltage: 36V

Maximum continuous load current: 3A

Lighting

Outputs are 30V 500ma open collector outputs designed to operate LEDS or Lamps from the common unregulated supply, or and external +5V Supply

Only the Headlight and Reverse Light are supported.

Additional lighting may be controlled by an optional auxillary lighting board.

J1 - TRACK / MOTOR

- 1: TRK+
- 2: TRK+
Track +, Connect to positive side of track when the engine is going in the forward direction.
- 3: MOT+
Motor +, Connect to motor to cause the engine to go foward when positive.
- 4: REV LT.
Reverse (Back) or Tender Backup Light.
- 7: GND
Common Ground.
- 9: FWD LT.
Forward Light (Headlight)
- 10: MOT-
Motor -, Connect to motor to cause the engine to go foward when negative.
- 11: TRK-
- 12: TRK-
Track -, Connect to negative side of track when the engine is going in the forward direction.

Mating Connector:
Samtec
SSW-110-01-T-S

J2 - LIGHTING

No connections are made.

Mating Connector:
Samtec
SSW-112-01-T-S

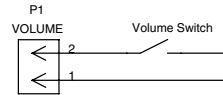
P1 - Volume Switch

Cable P# 109-0115-00

- 1: Volume
- 2: GND

Volume is controlled by a magnetic switch or push button. It may be connected to J2 or P1

Mating Connector: JST ZHR-2



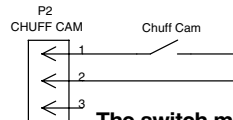
P2 - Chuff Cam

Cable P# 109-0121-00

- 1: GND
- 2: Cam
- 3: +5

The engine will chuff when the switch closes.

Mating Connector: JST ZHR-3



The switch must be electrically isolated.

P3 - Aux Lighting

Cable P# 109-0125-00

Expansion connector for auxillary lighting board.

- 1: +5
- 2: DATA
- 3: GND

Refer to aux lighting board for proper connections,

Mating Connector: JST PHR-3

P5 - Radio

Cable P# 109-0126-XX
(XX denotes length in inches)

Expansion connector for Radio Receiver.

P9 - Speaker

Cable P# 109-0127-00

External 8 or 16 ohm speaker.

Minimum impedance 8 Ohms

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