
MODELS 6160-8L/H

POWER AMPLIFIER MAINFRAMES

The models 6160-8L and 6160-8H Power Amplifier Mainframes are components of the IED 6000 Series Power Amplifier System. They are designed to house, provide cooling for and power to, and make all connections to up to 8 of the models 6272L/H, 6282L/H Dual Power Amplifier cards and/or the models 6270L/H and 6208L/H (single channel) Power Amplifier Cards.

The dual power amplifier cards can be operated separately (dual mode) or in parallel (mono mode). Mode selection is accomplished by the placement of jumpers and shunts for each card which are applied to terminals on the rear panel of the mainframe. Refer to figure 1, page 2.

Mono mode is accomplished by paralleling the outputs by placing a jumper between the positive terminals of the channel outputs for the card position and another between the negative terminals of the channel outputs for that card position. The shunt on the jumper terminals (P1 - P8) for that card position must be removed.

Only input 1 is used in mono mode. Input 2 is inactive. In this mode the two monitor outputs are identical. Either one can be used.

Dual mode operation where each amplifier channel operates separately is accomplished by removing jumpers, if any, between output terminals, and placing a shunt on the jumper terminals for that card position (P1 - P8). The 6160-8L/H Mainframes are shipped from the factory with shunts applied to all jumper positions (P1 - P8).

Since the channels operate independently, both of the respective input connections and monitor outputs are used.

Single channel power amplifier cards, models 6270L/H and 6208L/H, can also be used with models 6160-8L/H mainframes. Refer to figure 2 on page 3. When using these cards, the second input and output connections are the only ones used.

Wiring for all audio inputs and monitor outputs should be done using 22 AWG stranded twisted pair with an overall shield (Belden 8451, or equivalent). For speaker outputs use 18 AWG speaker wire such as Belden 8461 or equivalent. Make connections as shown in the figures. The 6160-8L/H uses a removable power cord such as Belden 17250 or equivalent. Connect the AC power cord to its receptacle on the rear panel of the mainframe.

The main output terminals are 5-way banana jacks on 3/4 inch centers. They will accept banana plugs, a standard dual banana plug, spade lugs, tip plugs, or bare wire ends.



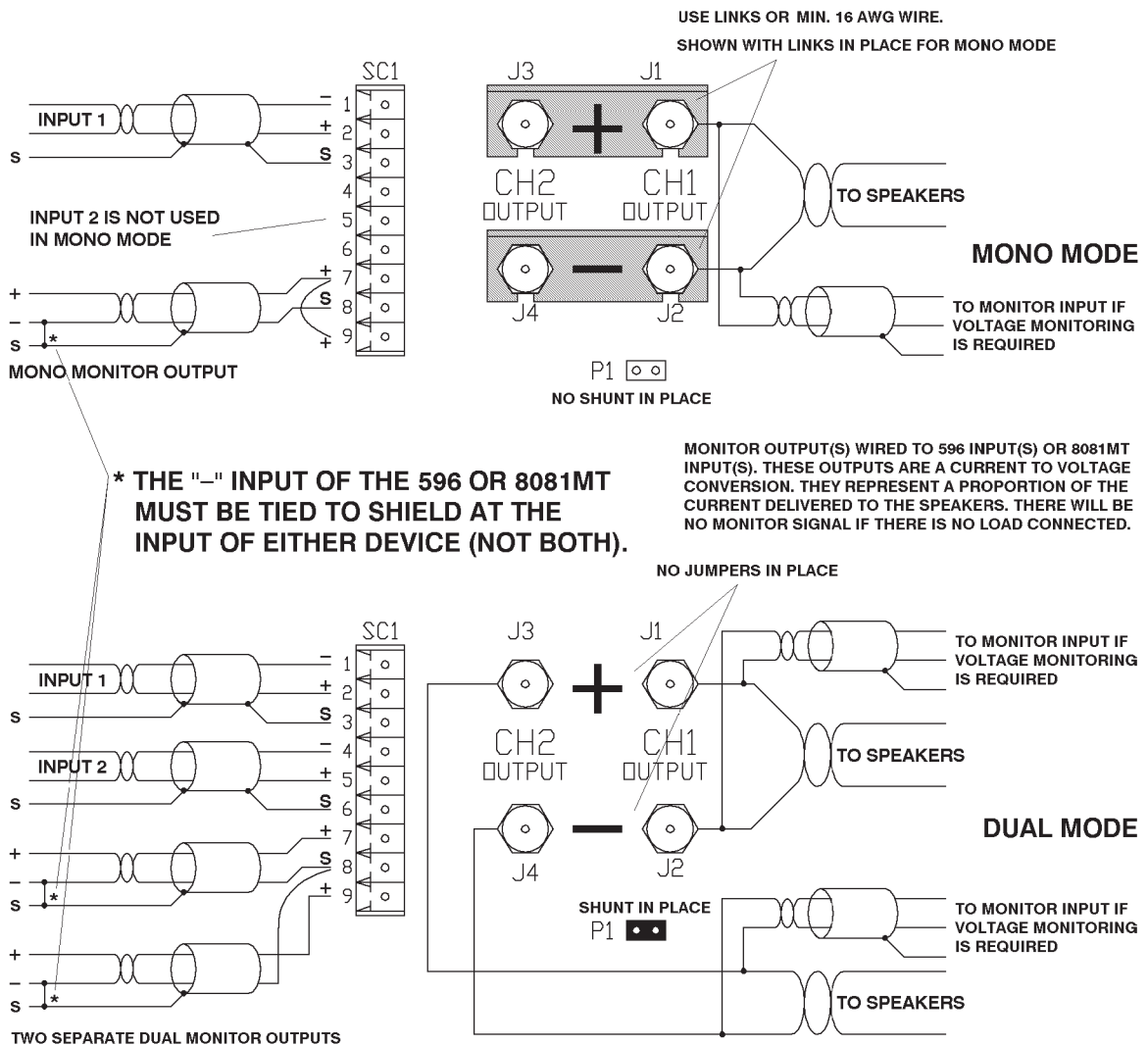
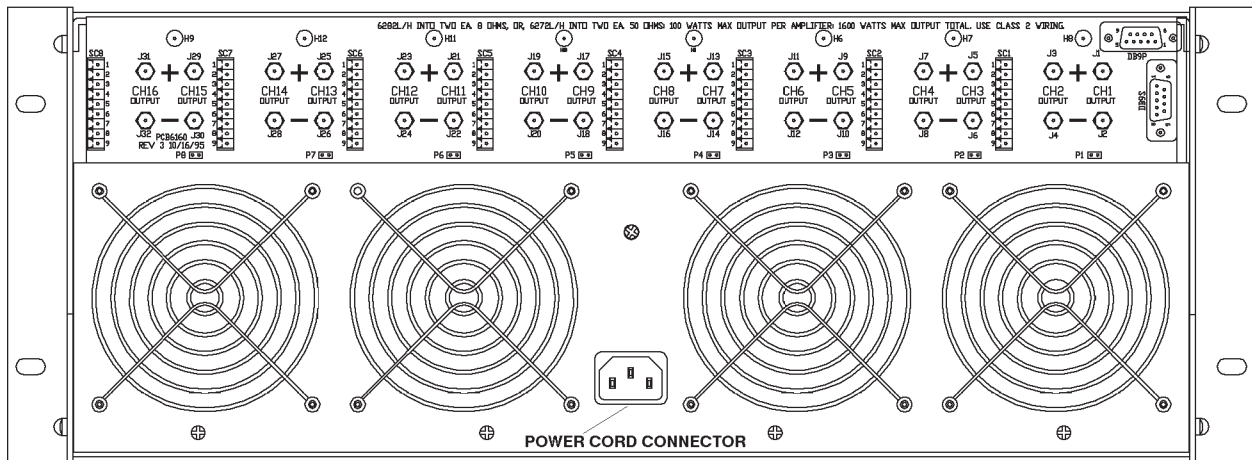


Figure 1 - 6160-8L/H Power Amplifier Mainframes
Rear Panel Connections for 6272L/H and 6282L/H

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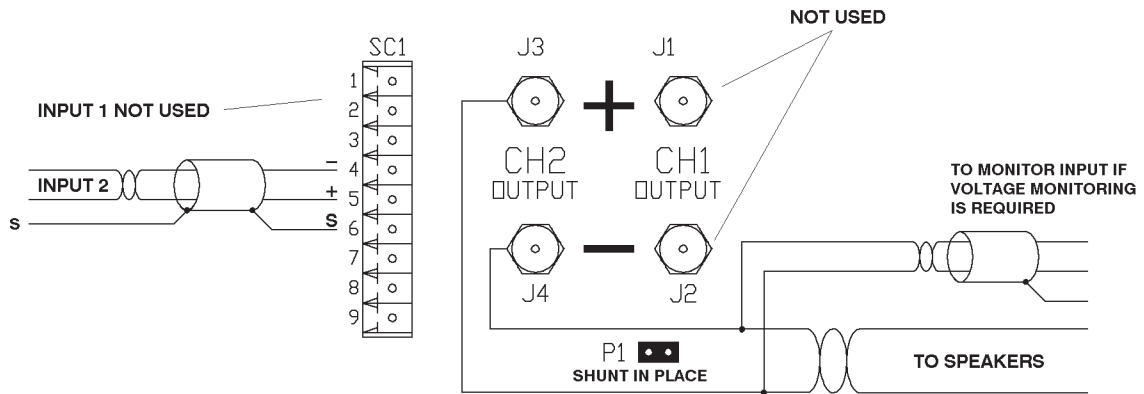
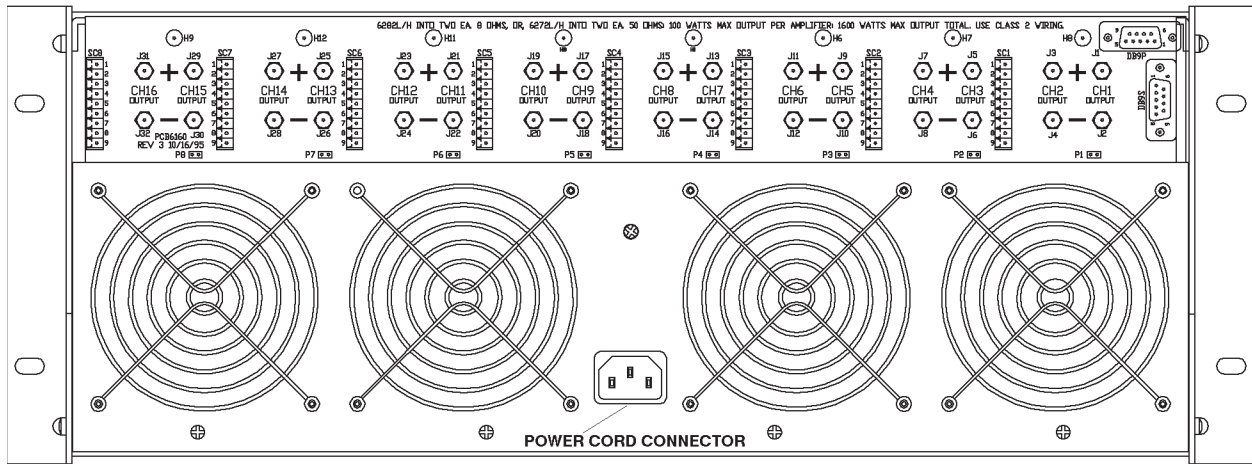


Figure 2 - 6160-8L/H Power Amplifier Mainframes
 Rear Panel Connections for 6270L/H and 6208L/H, Single Channel 200 W Operation



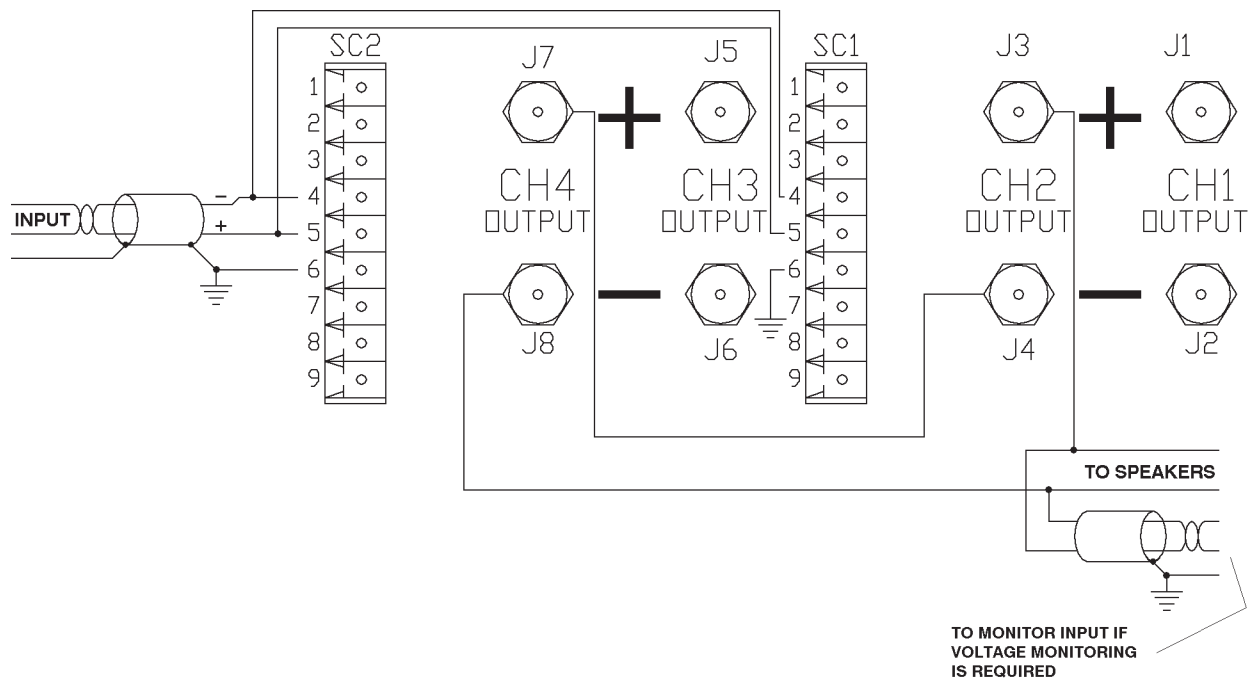


Figure 3 - 6160-8L/H Power Amplifier Mainframes
 Rear Panel Connections for 2 6208L/H Amplifier Cards
 Showing Single Channel 400 W Operation

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