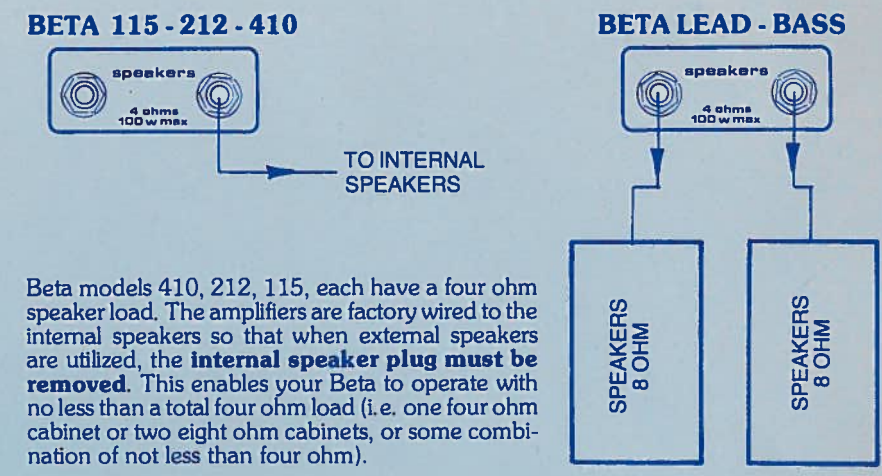


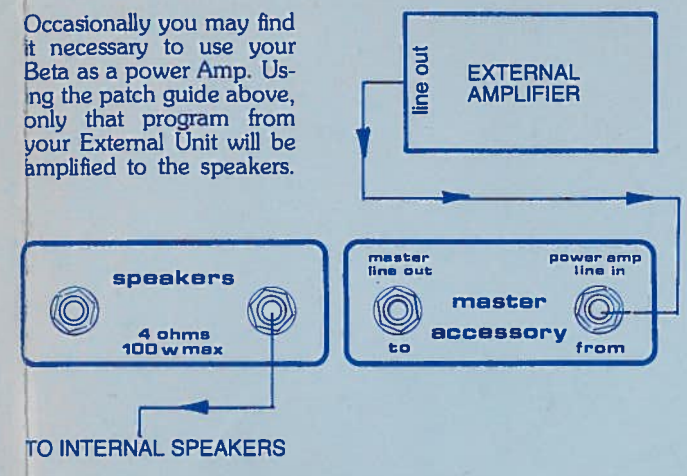
Beta Series Patching Guide

SPEAKER HOOK UP

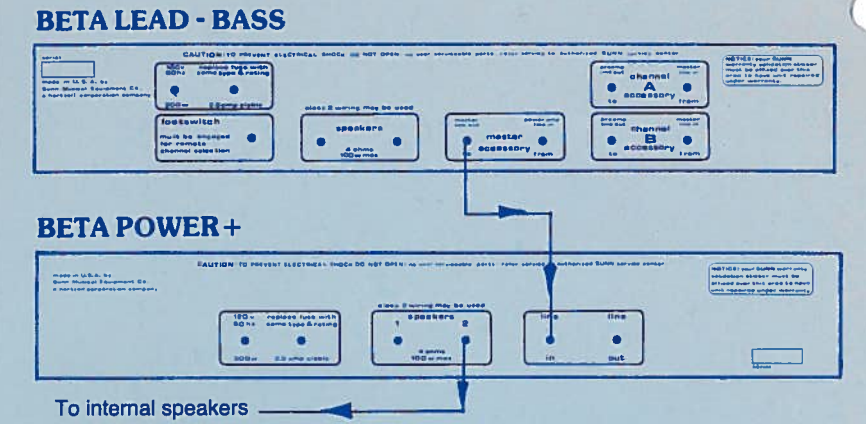


Beta models 410, 212, 115, each have a four ohm speaker load. The amplifiers are factory wired to the internal speakers so that when external speakers are utilized, the **internal speaker plug must be removed**. This enables your Beta to operate with no less than a total four ohm load (i.e. one four ohm cabinet or two eight ohm cabinets, or some combination of not less than four ohm).

AS A POWER AMPLIFIER



ADDITIONAL POWER

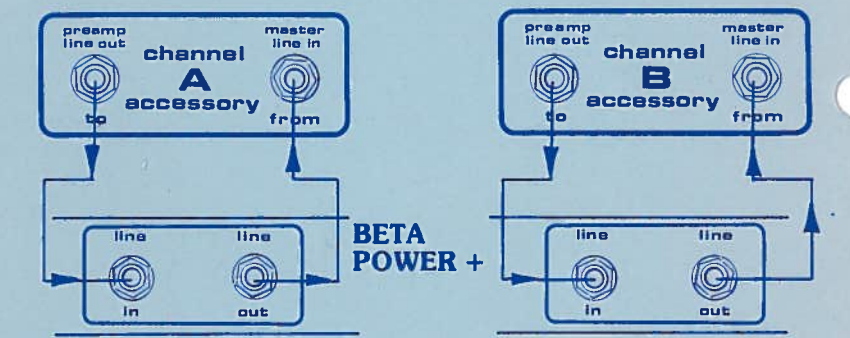
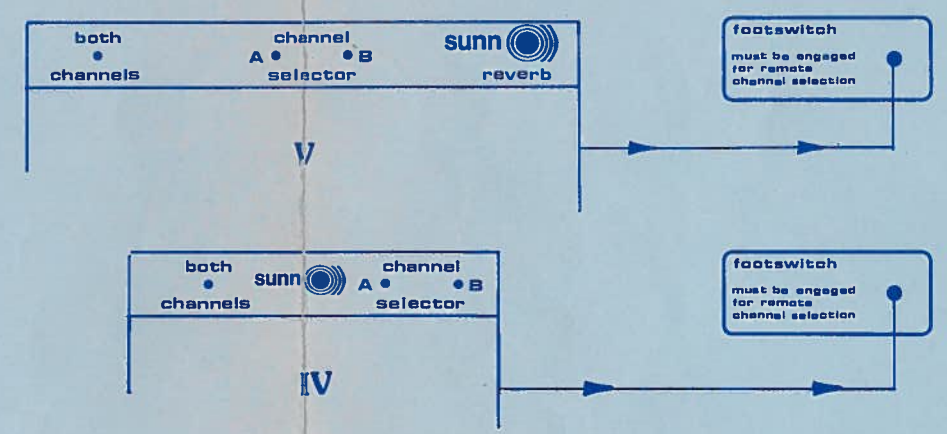


The master accessory "to" (master line out) can be utilized for driving additional power amplifiers from your Beta. The Beta Power+ is available with the same speaker options. This design allows the user exact sound duplication or diversification.

Channels A and B feature the same accessory "to" output which can also be used for separate amplification. For example, if Channel A Patch is used, a "dummy plug" (see prelude to patching) may be installed into Channel A "Accessory From." This allows Channel A to operate independent from Channel B and the master volume. This presents the possibility of a second musician to use Channel A, with his own controls and power amp.

BETASWITCH IV-V

The Betaswitch (IV for Bass, V for Lead) offers remote switching of reverb and channel selecting. To provide maximum switching capabilities when using the Beta-switch, your instrument should be applied to the "Both" Jack, or both Channel A and B utilized. L.E.D. indicators on the Betaswitch operate simultaneously with indicators of your amplifier. This displays at a glance the activated channels. The A and B selector is simply depressed to instantly change from A to B. Or, depressed again to change from B to A. When the "Both" selector switch is used, both Channels A and B are functioning. However, your Betaswitch does not forget the single channel operating previously. Channel A or B indicator will remain lighted to show what channel you will return to when the "Both" selector is deactivated. In addition, while the "Both" selector is on, the A to B switch may be used to enable return of program to either A or B.

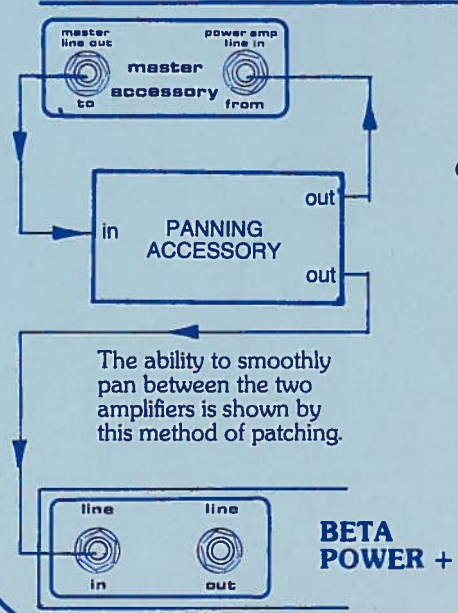


ACCESSORIES

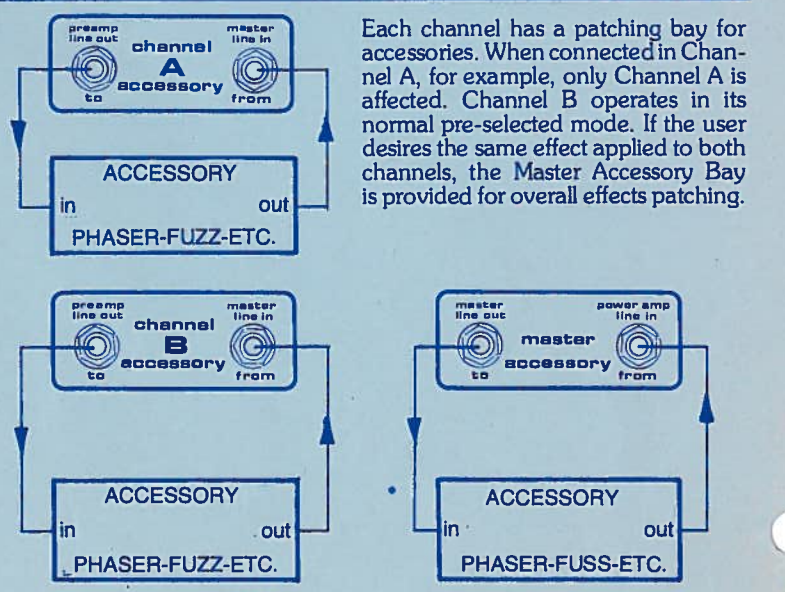
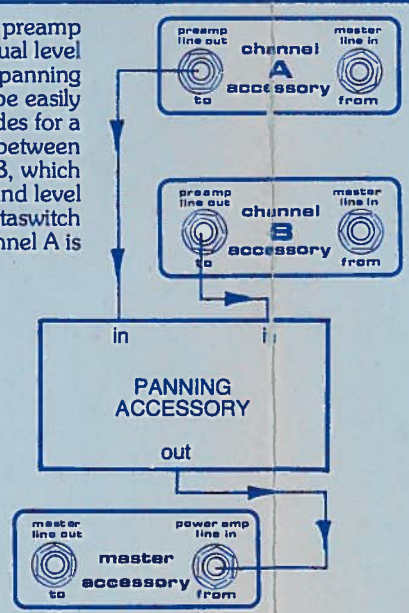
PRELUDE TO ACCESSORY PATCHING

Due to the extremely versatile Beta series amplifier, Sunn has attempted to illustrate only some of the more common patching situations. In your experimenting with its flexibility, you will find many exotic and useful capabilities. For example, connect your instrument to Channel A input. Add the output of Channel A (accessory "to") to the input jack of Channel B. This creates some interesting sound qualities not obtainable by other guitar amplifiers.

You will also find the term "dummy plug" in this patch guide. Defined simply as a phone plug without a cord attached. This plug may find its place in various modes. For instance, using the patch described above, install a dummy plug into Channel A "Accessory From". This will isolate Channel A from the master mixer stage, resulting in even more sound modification.



Independently operating preamp channels with individual level controls enable a panning effects unit to be easily patched. This provides for a smooth remote pan between Channel A and Channel B, which have pre-set tone and level controls. If the Betaswitch is installed, and Channel A is switched off, the pan pedal becomes a volume pedal for Channel B.



Each channel has a patching bay for accessories. When connected in Channel A, for example, only Channel A is affected. Channel B operates in its normal pre-selected mode. If the user desires the same effect applied to both channels, the Master Accessory Bay is provided for overall effects patching.