

GENERAL INFORMATION

IMPORTANT: PLEASE READ PRIOR TO USING AMPLIFIER

YOUR WW AMP has been constructed with the highest quality electronic components. To insure trouble-free operation, knowledge of the following is important.

1. SPEAKER CORD: 18 gauge or heavier is recommended (instrument cord should not be used). Always carry a spare, just in case. A shorted cord will produce a weak fuzzy sound and or cause the amp to shut off momentarily - **REPLACE THE CORD IMMEDIATELY.** Cords with plastic/insulated plug caps are recommended for bridging.

2. SPEAKER IMPEDANCE: You may use as many speakers as desired. However, the total impedance of all speakers must never be less than 4 OHMS per power amp and 4 OHMS, bridge mode. When using the amp as a preamp only, it is not necessary to connect a speaker or dummy load. The amp may be turned on and off without a speaker being connected.

3. POWER (ON/OFF) SWITCH: Additional electronic circuitry protects and will indefinitely preserve the life of the ON/OFF switch (independent from usage) if you allow a five second minimum time interval between turn-off and turn-on. The circuitry also provides a short time delay between power switch actuation and amplifier (pilot light) turn on. Also, it will not harm the amp to plug it in with the power switch in the "on" position.

4. DUAL VOLTAGE SWITCH: Indicated on the amp's bottom cover, this switch must be in the "down" position for 90v-130v, 50-60HZ powerlines and in the "up" position for 180V-260V, 50-60HZ powerlines. It may be actuated with the center pin on the three prong power cord plug by inserting the prongs between the fins on the amplifier heat sink. For 240V operation be sure to secure for yourself the proper power cord adapter plug(s).

5. VENTILATION: *DO NOT SET ANYTHING ON TOP OF THE AMPLIFIER WHICH COVERS THE VENT SLOTS OR IMPEDES AIR FLOW FROM THIS SPACE.* Since there is no thermal breaker to turn the amp off if grossly overheated, it is recommended that if possible, the amp be kept out of direct sunlight when used outside, particularly on a very hot day. It is normal, for the amp to get warm and even hot depending on the ambient temperature, speaker load, and sound level.

6. FAVORITE SETTING: If you wish to have a particular knob remain immovable at a given position, simply press in firmly on the front of the knob.

INSTRUCTIONS

WALTER WOODS ELECTRACOUSTIC DUAL INPUT TWO CHANNEL STEREO and MONO VERSIONS

(#7 PAN KNOB and #9 BRG/STR SWITCH APPLY TO STEREO ONLY)

1 MEGOHM

1. INPUT JACK: One 1/4" phone jack is provided for each channel. Input impedance is 1.0 MEGOHM and therefore presents negligible loading with respect to all signal sources.

2. PREGAIN KNOB: As shown on the front panel, this section is divided into two regions, active & passive which accommodate a wide range of instrument signals without clipping, thereby eliminating the need for an attenuator switch or second "padded" input jack.

3. BASS, BALANCE and TREBLE KNOBS: BASS and TREBLE KNOBS are nominally flat at "zero" position. Boost is the region clockwise from "zero", cut is the region counter clockwise from "zero". The BALANCE KNOB controls the range of bass and treble available at the knobs respectively. The "loend" region provides augmented bass & diminished treble. The "hiend" region provides the reverse. A good initial setting for the BALANCE KNOB is pointer at one o'clock. NOTE: THE BALANCE KNOB IS NOT USEFUL WITH BASS AND TREBLE KNOBS SET AT ZERO.

4. MIDDLE and VARI KNOBS: The MIDDLE KNOB has symmetrical boost & cut about "zero". It's center frequency is adjustable via the VARI KNOB. It's range is 100HZ at full clockwise to 1000 HZ at full counter clockwise. A good initial setting for the VARI KNOB is pointer at nine o'clock (500HZ). NOTE: THE VARI KNOB IS NOT USEFUL WITH MIDRANGE KNOB SET AT ZERO.

5. SEND and RECEIVE JACKS: One 1/4" pair is provided per channel. Effects are "patched" here. SEND output impedance is 1.0 KILOHM. Channel 1 and Channel 2 SENDS may be "WYED" together to provide a summed mono signal for effects having a single input. RECEIVE input impedance is 1.0 MEGOHM. Therefore, RECEIVE inputs can also be used as instrument inputs. (see 6.3 below)

6. POST GAIN KNOB: POST GAIN KNOB is active and provides 0dB to 14dB of amplification from 6 to 10. A setting of 6 is equivalent to a passive "master volume" setting of 10. Therefore, a maximum setting of 6 will be more than adequate for most situations. Higher settings will be advantageous if:

1. Channel 1 and 2 SENDS are WYED together.
2. Effects are lossy and volume is reduced with their usage.

3. An instrument or other signal source is plugged into RECEIVE input.
4. Four channel usage. (see 8.2 below)

7. PAN KNOB: This knob allows the signal from either channel to be varied from one speaker to the other. Say you're plugged into Channel 1, with PAN KNOB at A (power amp A speaker connected to the top rear jack, power amp B speaker connected to bottom rear jack). Sound will be heard only in speaker A. As the control is turned clockwise sound will be heard in both speakers (equally loud at 1:1 mid-point) and ultimately only in speaker B with PAN POT at B).

Low mid Boost - "0-10"

8. SEND MIX KNOB: This knob has a variety of uses: -

1. Blending effects with "dry" POST EQ sound, 50/50 maximum.
2. 4 channel usage including stereo P.A. In this setup, channels 1 and 2 are used as normal (but are not limited to) instrument channels. A stereo mixer (or mono, via WYE cord) is connected to the RECEIVE input jacks. This will automatically disconnect the SEND preamp signal from the POST GAIN KNOB. By turning up the SEND MIX KNOB, the disconnected signal will be summed with the RECEIVE input signal at the POST GAIN KNOB. NOTE: SEND MIX WILL NOT FUNCTION WITH POST GAIN KNOB SET AT ZERO.

9. ~~(APPLIES ONLY TO HI POWER STEREO AMP)~~ BRG\STR (BRIDGE/STEREO) SWITCH: To bridge speaker(s) between the two power amps, set this switch to BRG and connect speaker via the special "bridging" adapter cord. **IMPORTANT: EXCEPT FOR BRIDGING, THIS SWITCH MUST BE KEPT IN THE STR (STEREO) POSITION; OTHERWISE, SPEAKERS CONNECTED TO POWER AMPS A AND B WILL BE OUT OF PHASE.** Also set both PAN POTS at 1:1. **PRECAUTION:** In order to prevent shock hazard and/or high current discharge when operating in BRIDGE MODE it is **ABSOLUTELY** necessary to use speaker plugs, including "Y" cords, with PLASTIC or MOLDED CAPS ONLY. **DO NOT USE METAL CAPPED PLUGS OR CONNECTORS.** Also, do not connect or disconnect speakers or TOUCH CONNECTORS while amplifier is in use or switched on.

10. PRE/POST EQ SWITCH: This switch selects at the DIRECT OUT (see no. 11. below) the PRE EQ signal (not altered by any amplifier function) or the POST EQ signal (altered by any amplifier function up to but not including the POST GAIN). Effects are included. The center OFF position eliminates the signal.

11. DIRECT OUT JACK: One 1/4" phone jack is provided. The signal, a mono mix of both channels, may be connected to a recording console, house P.A. mixer or another amplifier. To insure 60 HZ hum/noise-free operation, a passive "direct box" must be used. If the "direct box" is active (requires batteries) it must contain an isolation transformer, for noise-free operation.

POWER CODE: This series of amplifiers' power rating is indicated by the following features:

MONO AMPS (BLACK TOP & BOTTOM COVERS).

red light, low power-120-200W@8-4ohms
green light, hi power- 300-450W@8-4ohms
amber light, super hi power-450-650W@8-4ohms
blue light, ultra hi power-800-1200W@8-4ohms

STEREO AMPS (RED TOP & BOTTOM COVERS).

100W/side @8ohms
225-350W/side, 700-1000Wbridged@8-4ohms