Input 1 and Input 2 Volume controls

These knobs adjust the volume of each of the channels from a range of off to +75 dB. (clockwise rotation). The two input channels and the tone (if selected) are always mixed together and the mixer’s output goes through the distribution amp, then the various outputs at unity gain. Each of the two input channels can be used as mic or line inputs, and have selectable high pass filters, ground lifts, and phantom power.

Low cut switches, channel 1 and 2

The low cut switches engage a high pass circuit, with a slope of 24 dB per octave, tuned at 120 Hz. Use the filter to reduce 60 cycle hum, wind, and stage subsonics present at the input.

Mic/Line switches channel 1 and 2

The Presspower is designed primarily for use with microphone inputs. With the switch in the mic position, the input signal passes through a transformeried input gain stage and will have phantom power if selected. The amount of gain is 75 dB, 35 dB of which is set inside the unit, and 40 dB on the volume knob. With the Mic/Line switch in the Line position, a 40 db attenuator is placed at the input and Phantom power is removed from the input XLR connectors.

Ground Lift Switch

Pressing in the top side of the switch lifts pin 1 of the input XLR connector from the Press power ground. The Ground Lift Switch is intended for use when the line level position of the Mic/Line switch is selected, to eliminate ground loops. It is not recommended for use with microphones. Phantom power will not work with the ground lifted.
• Tone +4 dB Switch

This switch, when pressed in, places a 1 KHz sine wave at all the outputs. The level of the tone is +4 dB at Line 3 and 4 outputs and -43 dB at each of the Mic outputs and can be varied at the line 1 and 2 outputs.

• Headphone Jack

This jack is for headphone monitoring the mixer out (all inputs). The tip-ring-sleeve jack sends a mono signal to the headphones and is designed to drive headphones with an impedance of 150 Ohms or greater.

• Headphone Volume control

This knob adjusts the volume at the headphone jack. The control has a gain range from off to +15 dB. When using battery power do not run low impedance phones for a prolonged period of time or battery life will be reduced.

• Line 1 and 2 volume controls

These knobs vary the level at the line 1 and 2 outputs from off to 20 dB of gain. Unity gain is approximately at the 9 o'clock (270 degrees) position.

• Line 1 and 2 XLR and 1/4 inch TRS Output Connectors

These are transformer isolated, low impedance, line level outputs. In each output please use only one connector, XLR or 1/4 inch TRS to avoid loading, since they are wired parallel. The XLR outputs are ground lifted; the TRS outputs are not ground lifted.

• Line 3 and 4 XLR Output connectors

These fixed level outputs are transformer isolated, low impedance, ground lifted, line level.

• Mic outputs

Each of these 12 outputs is an individually transformer isolated, low impedance, mic level output. The level of these outputs is 45 dB less than the mixer output. On each of the 12 outputs use either the XLR or 1/8 inch TRS jack since they are wired parallel. If more Mic outputs are required, the PRESSPOWER's Line level outputs will drive Whirlwind's PB08, PB12, PB16, or PB24 passive preamp boxes, providing 0, 12, 18, or 24 additional microphone outputs.

• VU Meter

The VU meter is calibrated inside the PRESSPOWER so that +4 dB equals 0 VU on the meter. The meter’s range from rest to full swing is 15 dB.

• Power Switch

The PRESSPOWER is powered by either AC or 4 standard 9 volt batteries.

• DC OK LEDs

These LEDs will light when the active power source (either the plus and minus 13 volt DC supplies from the AC power supply or the plus and minus supplies from the four nine volt batteries) are greater than 13.5 volts DC. The Press Power will still operate with the supplies less than 13.5 volts, however the batteries should be replaced if in battery mode or the AC line voltage is too low if in AC mode.
• **Meter Light Switch**

Pressing this button in will illuminate the VU meter when the unit is powered in AC mode. The meter light does not function in battery powered mode.

**Phantom Switch**

This button engages either a 48 volt DC regulated supply to the input channels in AC mode, or a +18 volt DC supply to the input channels if in Battery mode.

• **Battery Holders**

The four nine volt batteries are held in these drawer style battery holders.

• **110/230 Volt AC Switch (Back Panel)**

This switch configures the primary of the power transformer for operation in either 110 volt AC 60 hertz or 230 volts 50 Hertz.

• **Specifications:**

- **Frequency Response:** 20 to 20k Hz.
- **Total Harmonic Distortion:** 0.06%
- **Gain at input channels:** 75 dB.
- **Input Impedance:** 150 Ohms
- **Line output impedance:** 800 Ohms
- **Mic output impedance:** 150 Ohms
- **Maximum Input level:**
  - Mic position: -40 dB at 60 dB gain
  - Line position: +20 dB at unity gain
  - +10 dB at 10 dB gain
  - 0 dB at 20 dB gain
- **Maximum output level:**
  - Mic outputs: -15 dBm.
  - Line Outputs: +23 dBm.
- **Phantom power:** +48 volt within .1 volt
- **Output impedance of headphone amp:** 47 ohms
- **Slew rate:** 8 ms.
- **Input equivalent noise:**
  - Line out: -84 dBm at 60 db gain
  - mic out: -82 dBm at 40 db gain
  - Line out: -73 dBm at 50 dB gain
  - mic out: -87 dBm Inputs off
Specifications (continued)

All measurements in dBrn

<table>
<thead>
<tr>
<th>S/N Ratio</th>
<th>Mic Gain</th>
<th>Input Level</th>
<th>Line Output Level</th>
<th>Mic Output Level</th>
<th>Head-Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical Measurements:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>60</td>
<td>-40</td>
<td>+20</td>
<td>-20</td>
<td>0</td>
</tr>
<tr>
<td>64</td>
<td>60</td>
<td>-60</td>
<td>0</td>
<td>-48</td>
<td>20</td>
</tr>
<tr>
<td>74</td>
<td>50</td>
<td>-50</td>
<td>0</td>
<td>-43</td>
<td>20</td>
</tr>
<tr>
<td>73</td>
<td>80</td>
<td>-50</td>
<td>+10</td>
<td>-88</td>
<td>10</td>
</tr>
<tr>
<td>82</td>
<td>40</td>
<td>-40</td>
<td>0</td>
<td>-40</td>
<td>20</td>
</tr>
</tbody>
</table>

Power Requirements:
120 Volts A.C. 60 Hz. 15 Watts, or
230 Volts A.C. 50 Hz. 25 Watts, or
Four 8 Volt Alkaline Batteries
PRESSPOWER BLOCK DIAGRAM

CHANNEL 1
- Input
- Ground Lift
- Mic/Line
- Phantom Power
- Gain 75 dB
- Filter
- Headphone Amplifier

CHANNEL 2
- Input
- Ground Lift
- Mic/Line
- Phantom Power
- Gain 75 dB
- Filter
- Mixer Distribution Amplifier

1 KHz Test Tone

POWER SUPPLY
- 110V 60Hz or 220V 50Hz or 4 9V Batteries

PHANTOM POWER

12 Mic Level Outputs

4 Line Level Outputs - 2 Fixed Level, 2 Adjustable Level.