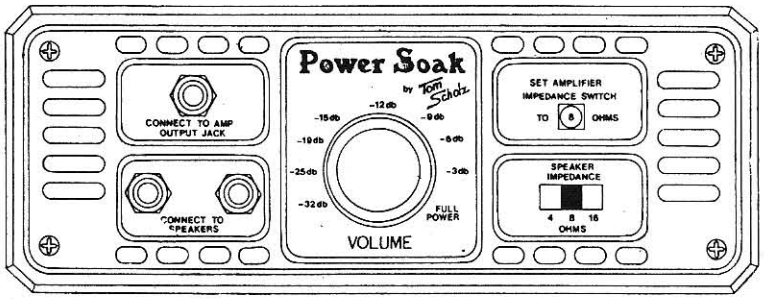
POWER SOAK™ INSTRUCTIONS & INFORMATION



- Compatible with both tube and solid state amps. accepts 4, 8, 16 ohm speakers.
- Also designed for headphone/direct line use.
- Input impedance is correctly maintained for any volume selected.
- Provides automatic speaker protection for single 16 ohm cabinet used with 100 watt heads regardless of volume settings.

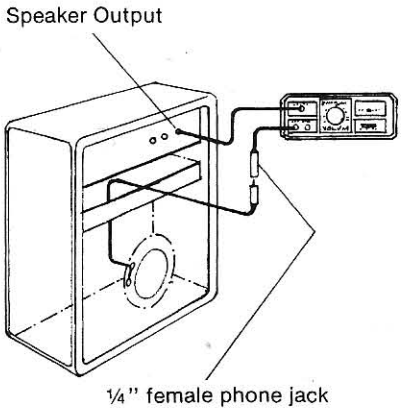
The Power Soak™ has been designed for use with all these amps:

Tube amps 110 watts RMS output or less at 4, 8 or 16 ohms.

Solid State amps of 120 watt RMS output or less into 4 ohms.

Note: Solid State Amps requiring an 8 ohm speaker must use external adaptor *(See reverse)*

Any Amp exceeding the above output limits may be used by connecting it to two or more Power Soaks™. Contact Scholz R & D for specific instructions.



step 1 Place Power Soak™ in a horizontal position away from amp cooling vents (ex: On Marshall heads place Power Soak™ on far right hand side). Do not enclose or cover.

step 2 TUBE AMPS:
Find speaker cabinet impedance (see chart on reverse). Set Power Soak™ speaker impedance selector" to that number.

SOLID STATE AMPS:
Set Power Soak™ "Speaker Impedance Selector" at 8 ohms for **ALL SOLID STATE AMPS AT ALL TIMES. USE EXTERNAL ADAPTOR WHEN REQUIRED.** *(See diagram and amp listings on reverse side.)*

step 3 If amplifier model is equipped w/speaker impedance switch set it to number displayed in window above "Speaker Impedance Selector" on Power Soak™.

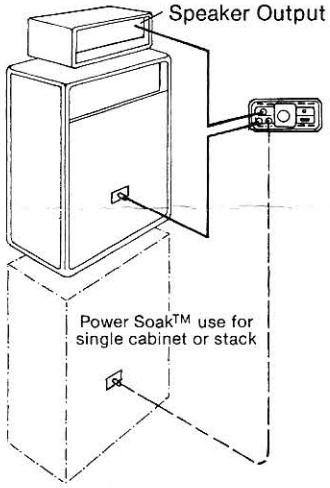
If amplifier doesn't have impedance selector switch, disregard this step. Impedance is automatically set.

step 4 Plug ¼" phone cable from speaker cabinet to either "Connect to Speakers" jack on Power Soak™. Two cabinets may be connected.

step 5 Plug ¼" phone cable between speaker output on rear panel of amplifier and "Connect to Amplifier Output Jack" on Power Soak™.

Note: The speaker common of many amplifier outputs are not grounded. All speaker cables should therefore have plastic ends or be insulated with tape ***whether or not a Power Soak™ is being used.*** *Shielded cables are recommended for lengths longer than 6'*

step 6 Set amplifier and Power Soak™ to desired levels.



TIPS FOR POWER SOAK™ USAGE

—Set all master volumes (if applicable) at full settings to allow output stage of amplifier to be overdriven. Set Power Soak™ at a low volume. Adjust amplifier volume for desired distortion. Adjust Power Soak™ for desired volume.

—If sound gets "muddy" - decrease bass settings while increasing treble and presence settings.

—To help control unwanted feedback
1 - Reduce Power Soak™ volume
2 - If loud sound levels are necessary, reduce amplifier volume (gain). (ex-High end feedback, reduce treble setting. Low end feedback, reduce bass settings.)

—To increase sustain at low sound levels increase amp volume (gain) or add a pre-amp while keeping Power Soak™ at low settings. Decrease bass settings and boost treble and mid-range.

FOR HEADPHONES: Use a standard headphone adaptor (¼" female stereo to ¼" male mono.) Plug into either "Connect to Speakers" jack and set Power Soak™ at -32db (PHONES) position.

TUBE AMP: When using amplifier with speaker impedance switch - set amplifier and Power Soak™ impedance switches to 8 ohms.
Amplifiers designed for only 8 ohm cabinets - set Power Soak™ selector at 8 ohms.
Amplifiers designed for only 4 ohm cabinets - set Power Soak™ selector at 4 ohms.

SOLID STATE: Set Power Soak™ selector at 8 ohms, use external resistor when applicable.

LINE OUT: WHEN USING A DIRECT LINE WITH A SPEAKER - Set Power Soak™ and amplifier impedance switches normally. Connect direct line to Power Soak™ speaker jack. Maximum Power Soak™ volume settings from -32db to -12 db may be used. (7 volts maximum line signal).

LINE OUT: WHEN USING A DIRECT LINE WITHOUT A SPEAKER - use the same impedance selecting procedure required for headphone use (above). Connect direct line to unused Power Soak™ speaker jack. Power Soak™ volume settings from -32db to -12 db may be used.

NOTE: If amplifier is being "direct connected" to a device/mixing console without transformer balanced inputs, a standard "line balancing" transformer should be used.

FOR TUBE AMPLIFIERS

Some common speaker cabinet impedances
(Set Power Soak™ "speaker impedance selector" to this number)

Make & Model	*Total Impedance (ohms)*
Marshall, Hi-Watt, Sound City, Orange, 4x12" speaker cabinet	
1 cabinet	16
2 cabinets	8
Music Man 210, 212,	4
Ampeg VT-22	8
Music Man 112, 115	8
Fender Twin,* Pro, Dual Showman Bandmaster and Bassman (separate cabinet style) *excluding 135 watt or greater models	4
When using an extension speaker with main speaker	(use 4)
Ampeg V-4, 4x12" speaker cabinet, Music Man 412GH 4x12" speaker cabinet	
1 cabinet	8
2 cabinets	4

Note: Use "Low" setting on all Music Man 130 and 150 watt models.

If not listed, obtain impedance from manufacturer.

FOR SOLID STATE AMPLIFIERS

Some amps that can be used without external adaptor:
Acoustic 124, 125, 117, 230, 126, 220, 118
Lab Series L-3
Yamaha G-100 series
Randall RG120, RB120, RG60, RSS140
Kustom - all III Series
Sunn Beta Series
Traynor TS-15, TS-75, TS-100, TS-140

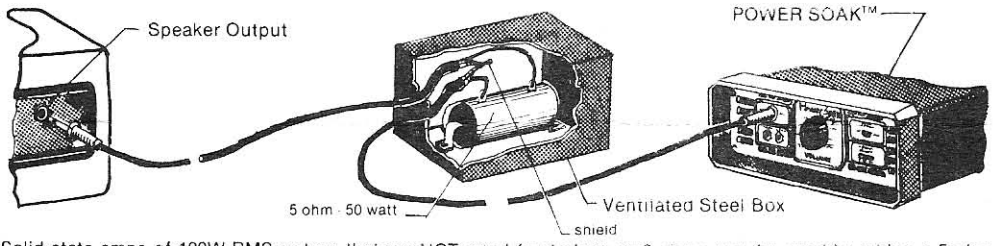
Set Power Soak™ "Speaker Impedance Selector" to **8** ohms regardless of speaker cabinet impedance.

Use only speakers with correct impedance for your amp

Some amps which require an external adaptor
Lab Series L-5, L-7, L-9
Yamaha G-50
Traynor T-5-25, T5-50
Pignose 30/60, Crossmix
Legend - GC-112, GC-212
50 Series

Set Power Soak™ "Speaker Impedance Selector" to **8** ohms use external adaptor *(see below)*

EXTERNAL ADAPTOR



Solid state amps of 120W RMS or less that are NOT rated for 4 ohms or 2 ohms may be used by wiring a 5 ohm, 50W resistor in series between the amplifier output and the Power Soak™ as shown above.

SOLID STATE RESISTOR MODIFICATION OFFER

The 5 ohm resistor described above may be built into your Power Soak™ complete with an "in-out" switch for additional cost of $20. Send Power Soak™ to Scholz Research & Development. We will modify your unit and return it within one week.

SPECIFICATIONS:

MAXIMUM CONTINUOUS POWER DISSIPATION: 110 watts RMS
INPUT IMPEDANCE: with 8 ohm impedance speaker: **7.8** to **10.2 ohms**
with 4 ohm impedance speaker: **4.1** to **5.6 ohms**
INSERTION LOSS AT FULL POWER SETTING: NONE
At "Full Power" setting the Power Soak™ is switched out of the circuit except when using a single 4-12" 16 ohm speaker cabinet. The maximum power provided is reduced by 2.5 db to protect the speakers from being blown.
BATTERIES. NONE.
AC POWER REQUIRED: NONE
DIMENSIONS: 10.3" x 9.3" x 3.5"
WEIGHT: 4 lbs.
WARRANTY: 2 years parts/labor
ADDED TECHNICAL INFORMATION:
For all volume settings below -15db: Input impedance to Power Soak™ is approximately the impedance shown in window regardless of speakers or headphones plugged into it.
ELIMINATING HIGH GAIN ELECTRONIC LOOP -
In some **rare cases** a high squeal may be caused by excessive high end gain when guitar is near Power Soak™ (not to be confused with high end acoustic feedback). Connect a grounding wire from rear panel screw to amplifier chassis.
NOTE: "Connect to Speaker" jacks are wired in parallel.

AUDIO ATTENUATION: (Approximate)

Step 1	0 db	Full Power
Step 2	3 db	
Step 3	6 db	
Step 4	9 db	
Step 5	12 db	
Step 6	15 db	
Step 7	19 db	
Step 8	25 db	
Step 9	32 db	Phones

Power Soak™ is the first in a series of products for the professional guitarist by

Scholz Research & Development
PO Box 191
Lincoln Center
MA 01773

Manufactured in U.S. with U.S. components.