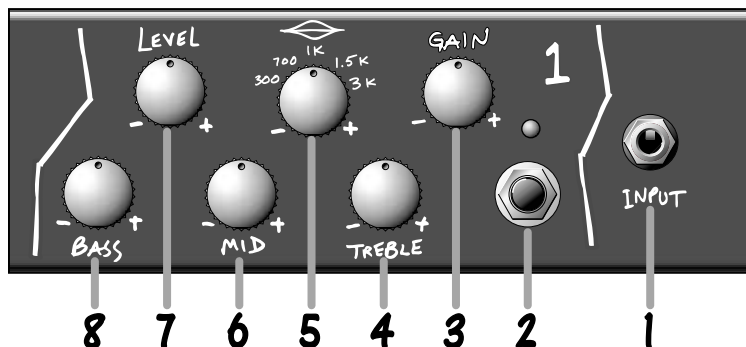
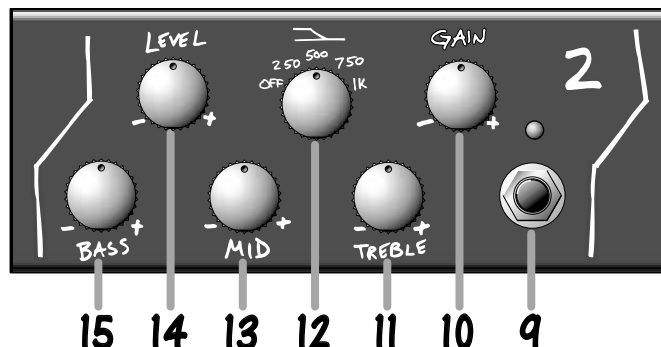


The Front Panel – Input, Channel 1:



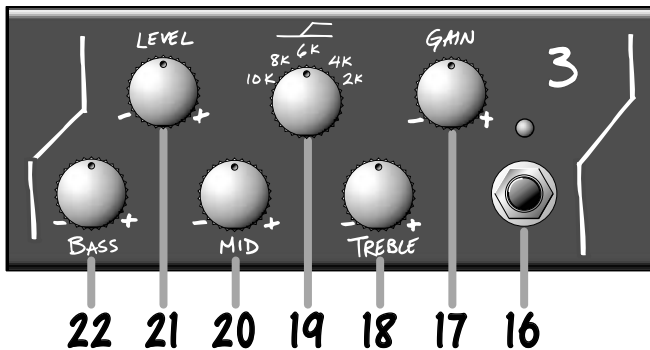
- 1. INPUT JACK:** Use this 1/4" jack to connect your guitar to the amplifier by means of a shielded instrument cable.
- 2. CH. 1 SELECT SWITCH:** This switch, when activated, selects Channel 1. The green LED above the switch illuminates when Channel 1 is selected. When the footswitch (#28, rear panel) is connected, either the front panel select switches **or** the footswitch may be used to select the active channel.
- 3. GAIN:** Use this control to adjust the input gain for Channel 1. With the control rotated counter clockwise, the resulting tones are tight and dynamic. As you rotate the control clockwise the tones take on more crunch.
- 4. TREBLE:** Use this control to adjust the high frequency output of Channel 1. The Channel 1 Treble control provides an adjustment range of 38dB at 5kHz.
- 5. MID FREQ SELECT:** Use this rotary switch to select the frequency for the Mid control (#6): 300Hz, 700Hz, 1kHz, 1.5kHz or 3kHz.
- 6. MID:** Use this control to adjust the mid frequency output of Channel 1. The Channel 1 Mid control provides 10dB of boost or 16dB of cut at the frequency selected by the Mid Freq Select control (#5). The Channel 1 Mid control uses a peak/dip style filter.
- 7. LEVEL:** Use this control to adjust the output level for Channel 1. Use this control in conjunction with the Channel 1 Gain control (#3) to achieve a wide variety of dynamics and to get the desired sound for Channel 1.
- 8. BASS:** Use this control to adjust the low frequency output of Channel 1. The Channel 1 Bass control provides 24dB of boost or cut at 50Hz.

Channel 2:



- 9. CH. 2 SELECT SWITCH:** This switch, when activated, selects Channel 2. The amber LED above the switch illuminates when Channel 2 is selected. When the footswitch (#28, rear panel) is connected, either the front panel select switches **or** the footswitch may be used to select the active channel.
- 10. GAIN:** Use this control to adjust the input gain for Channel 2. With the control rotated counter clockwise, the resulting tones are "Classically British" - warm and crunchy. As you rotate the control clockwise the tones take on a creamy smooth overdrive with a touch of compression.
- 11. TREBLE:** Use this control to adjust the high frequency output of Channel 2. The Channel 2 Treble control provides 12dB of boost or cut at 2.5kHz.
- 12. MID BOOST SELECT:** Use this rotary switch to add a 4 to 5 dB boost from the low frequencies to the midrange frequency selected: 250Hz, 500Hz, 750Hz or 1kHz.
- 13. MID:** Use this control to adjust the mid frequency output of Channel 2. The Channel 2 Mid control provides 10dB of boost or cut at 750Hz.
- 14. LEVEL:** Use this control to adjust the output level for Channel 2. Use this control in conjunction with the Channel 2 Gain control (#10) to achieve the desired sound for Channel 2.
- 15. BASS:** Use this control to adjust the low frequency output of Channel 2. The Channel 2 Bass control provides 20dB of boost or cut at 50Hz.

The Front Panel – Channel 3:



16. CH. 3 SELECT SWITCH: This switch, when activated, selects Channel 3. The red LED above the switch illuminates when Channel 3 is selected. When the footswitch (#28, rear panel) is connected, either the front panel select switches **or** the footswitch may be used to select the active channel.

17. GAIN: Use this control to adjust the input gain for Channel 3. With the control rotated counter clockwise, the resulting tones have a puchy tube sound (perfect for “agressive” rhythm guitar). As you rotate the control clockwise the tones take on serious overdrive distortion.

18. TREBLE: Use this control to adjust the high frequency output of Channel 3. The Channel 3 Treble control provides 15dB of boost or cut at the frequency selected by the High Freq Select switch (#19).

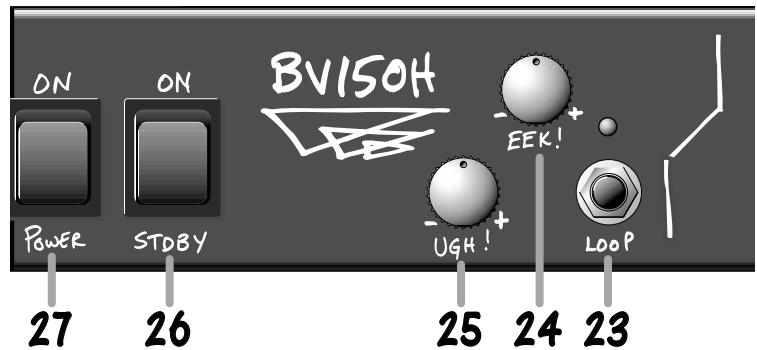
19. HIGH FREQ SELECT: Use this rotary switch to select the frequency for the High control (#18): 2kHz, 4kHz, 6kHz, 8kHz or 10kHz.

20. MID: Use this control to adjust the mid frequency output of Channel 3. The Channel 3 Mid control provides 20dB of boost or cut at 1.2kHz.

21. LEVEL: Use this control to adjust the output level for Channel 3. Use this control in conjunction with the Channel 3 Gain control (#17) to achieve the desired sound for Channel 3.

22. BASS: Use this control to adjust the low frequency output of Channel 3. The Channel 3 Bass control provides 18dB of boost or cut at 100Hz.

Effects Loop, Eek! and Ugh!:



23. LOOP SWITCH: This switch, when activated, engages the rear panel Effects Loop (#33–37, rear panel). This blue LED above the switch illuminates when the rear panel effects loop is engaged. When the footswitch (#28, rear panel) is connected, either the front panel Loop switch **or** the footswitch may be used to engage the effects loop.

Note: This may also be used as an additional Boost switch – see #37, page 5 for detailed information.

24. EEK!: Use this high frequency power amp damping control to add definition and more of an edge to your sound. The Eek! control is useful for compensating for acoustically absorbent rooms or cabinets with overbearing low frequency resonance.

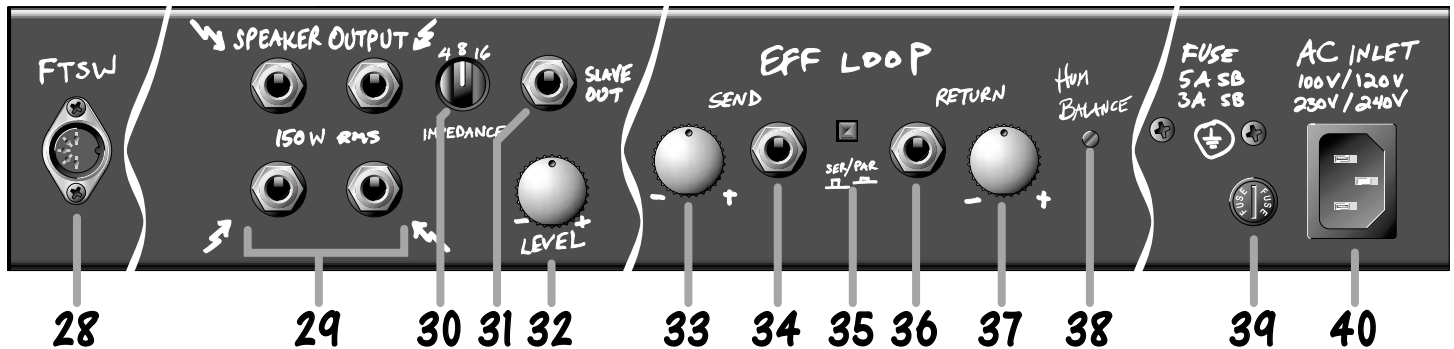
25. UGH!: Use this low frequency power amp damping control to add control and shape the low end of your sound. The Ugh! control tightens the low frequencies when rotated counter clockwise, giving better control over the speaker cones. When this control is rotated clockwise, the speaker cones are allowed to move more freely which gives the sound more “thump.”

26. STANDBY SWITCH: Use this switch to activate the amplifier (top of the switch depressed) or place the amplifier in the stand by mode (bottom of the switch depressed). The amplifier should be in the stand by mode during set breaks. This switch illuminates when the amplifier is active.

Note: The Power switch (#27) must be turned on for at least ONE MINUTE before turning on the Standby switch.

27. POWER SWITCH: Use this switch to turn the amplifier on (top of the switch depressed) and off. This switch illuminates when the amplifier is turned on.

The Rear Panel:



28. FOOTSWITCH JACK: Use this jack to connect the BVFS4 four-button footswitch to the amplifier for remote control of channel selection and effects loop on/off. Use the supplied MIDI cable for this connection. (A five-wire MIDI cable **must** be used for proper operation of the footswitch.)

29. SPEAKER OUTPUT JACKS: Use these jacks to connect the amplifier to your speaker cabinet(s) by means of heavy duty (16GA minimum) speaker cables.

Note: NEVER use the amplifier if it is not connected to a speaker cabinet!

30. IMPEDANCE SWITCH: Use this switch to match the amplifier impedance to match your speaker cabinet(s). Use the following chart and be certain this switch is at the proper setting before turning on the amplifier:

IMPEDANCE OF CABINETS	NUMBER OF CABINETS	TOTAL IMPEDANCE
16 ohms	2	8 ohms
16 ohms	4	4 ohms
8 ohms	2	4 ohms

31. SLAVE OUT JACK: Use this jack to connect the amplifier to a second guitar amplifier, a powered monitor, or recording console. The signal at this jack is an attenuated replica of the signal at the Speaker Output jacks (#29).

Note: The Slave Out Level control (#32) must be fully counter clockwise before connection is made from the Slave Out jack to another piece of equipment! SLOWLY rotate the Slave Out Level control clockwise when setting the slave equipment levels.

32. SLAVE OUT LEVEL: Use this control to adjust the output level of the signal at the Slave Out jack (#31).

33. EFFECTS LOOP SEND LEVEL: Use this control to adjust the level of the signal at the Effects Loop Send jack (#34).

34. EFFECTS LOOP SEND: Use this jack to send a line level signal to the input of an external effects processor.

35. EFFECTS LOOP SERIES/PARALLEL SWITCH: Use this switch to configure the Effects Loop for series or parallel operation. Experimenting with various effects will determine which setting provides the best results.

36. EFFECT LOOP RETURN JACK: Use this jack to return the signal from the output of an external effects processor into the effects loop.

37. EFFECTS LOOP RETURN JACK: Use this control to adjust the input level of the signal at the Effects Loop return jack (#36).

NOTE: The Effects Loop can also be used as a gain boost: connect a signal cable between the Send and Return jacks and use the Effects Loop Send and Return Level controls (#33, 37) to adjust the amount of signal boost - up to 6dB in series mode and up to 9dB in parallel mode.

38. HUM BALANCE: Use this control to minimize the residual hum in the amplifier. Use a small flatblade screwdriver to gently rotate the control until the hum is at a minimum. Allow the unit to fully warm up and set all Level and Gain controls fully counterclockwise before adjusting this control.

39. FUSE: The fuse protects the amplifier from voltage overload conditions. If the fuse fails, replace it **only** with the same size and type of fuse. If the fuse fails repeatedly contact your Crate Service Center.

40. AC INLET JACK: Insert the female end of the power cord firmly into this jack. The grounded power cord should only be plugged into a grounded power outlet that meets all applicable electrical codes and is compatible with the voltage, power and frequency requirements stated on the rear panel. **Do not attempt to defeat the safety ground connection!**



The BVFS4 footswitch – select channels and turn the effects loop on and off with just a tap of your foot!



BV150H Three Channel Guitar Amplifier

BV150H TECHNICAL SPECIFICATIONS:

Output Power Rating	150W RMS @ 5% THD, 4, 8, or 16 Ω load, 120 VAC		
Signal to Noise Ratio	75dB typical		
Gain	Channel 1 65dB	Channel 2 95dB	Channel 3 95dB
EQs	Channel 1	Channel 2	Channel 3
Low	24dB range @ 50Hz	20dB range @ 50Hz	18dB range @ 100Hz
Mid	+10/-16dB @ EQ Switch setting	10dB range @ 750Hz	20dB range @ 1.2kHz
EQ Switch	300, 700, 1k, 1.5k or 3kHz	+4~5dB @ 250, 500, 700 or 1kHz	2k, 4k, 6k, 8k or 10kHz
High	38dB range @ 5kHz	12dB range @ 2.5kHz	15dB range @ EQ Switch setting
EEK!	10dB above 5kHz		
UGH!	12dB below 250Hz		
PREAMP TUBES	(8) 12AX7A		
POWER TUBES	(6) 6L6GC		
POWER REQUIREMENTS	120VAC, 60Hz, 600VA 100/115VAC, 50/60Hz, 600VA 230VAC, 50/60Hz, 600VA		
SIZE AND WEIGHT	30"W x 12"H x 10-1/2"D, 53 lbs.		

The BV150H is covered with a durable Tolex material: wipe it clean with a lint-free cloth. Never spray cleaning agents onto the cabinet. Avoid abrasive cleansers which would damage the finish.

Crate continually develops new products, as well as improves existing ones. For this reason, the specifications and information in this manual are subject to change without notice.

Declaration Of Conformity

#__, Effective 01-01-2001

Manufacturer's Name: SLM Electronics
Production Facility: 11880 Borman Drive, St. Louis, MO 63146, USA
Production Facility: 700 Hwy 202 W, Yellville, AR 72687, USA
Shipping Facility: 1400 Ferguson Ave., St. Louis, MO 63133, USA
Office Facility: 1400 Ferguson Ave., St. Louis, MO 63133, USA

Product Type: Audio Amplifier

Complies with the following Standards:

Safety: EN60065, E60065, C22.2, UL6500 and/or UL813
EMC: Directive 89/336/EEC, EN55103, EN55013, EN61000, and/or FCC 47CFR 15B cIA

Supplementary information provided by:
SLM Electronics - R & D Engineering
1901 Congressional Drive, St Louis, MO 63146, USA
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