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hand-made all-tube non-clone guitar amps

Grand Prix 100

OWNER'S MANUAL

Model GP100



The Grand Prix 100 Dual Power Guitar Amplifier features two channels, two modes per channel, 3-band EQ, Presence & Depth controls and an effects loop – plus a revolutionary *Dual Power* footswitch-activated function that gives the performing guitarist the power to step out in front of the mix for solos. The amp utilizes Octal preamp tubes and true point-to-point wiring. Construction is heavy-duty, meant for real-world use and abuse. Made with the highest quality components and USA iron.

I sincerely hope you enjoy playing your new Grand Prix 100 as much as I enjoyed building it.

ESSENTIAL INFORMATION

Tube placement, left to right (facing the rear):

V1	V2	V3	V4	V5	V6	V7
6SL7	6SL7	6SL7	EL34	EL34	EL34	EL34

Your amplifier is hard-wired for the correct line voltage for your region. The following data is for 120VAC line voltage.

Power: 120VAC, 60Hz, 3A

Mains Fuse: 4A Slow Blow, Type 3AG, 1/4" x 1-1/4"

H.T. Fuse: 1A, Type 3AG, 1/4" x 1-1/4"

When replacing power tubes, always replace with a matched quad and have the bias checked and adjusted by a qualified professional. For detailed information on setting the bias, have your amp technician contact BC Audio.

IMPORTANT SAFETY INSTRUCTIONS



READ, FOLLOW, HEED, AND KEEP ALL INSTRUCTIONS AND WARNINGS. WE MAY COME TO YOUR HOUSE FOR VERIFICATION.

- DO NOT REMOVE SCREWS ON BOTTOM OF UNIT. LETHAL VOLTAGES LURK INSIDE. BOO! CONTACT THE MANUFACTURER FOR SERVICE INFORMATION. SERVICE MUST BE PERFORMED BY QUALIFIED PERSONNEL, NOT YOUR COUSIN WHO WIRED YOUR BASEMENT.
- THIS AMPLIFIER IS CAPABLE OF PRODUCING HIGH SOUND PRESSURE LEVELS. YEAH! CONTINUED EXPOSURE TO HIGH SOUND PRESSURE LEVELS CAN CAUSE PERMANENT HEARING IMPAIRMENT OR LOSS. WHAT? USER CAUTION IS ADVISED AND EAR PROTECTION IS RECOMMENDED IF UNIT IS OPERATED AT HIGH VOLUME, WHICH OF COURSE IT SHOULD BE.
- WHEN POWERED ON, THE TUBES MAY BECOME VERY HOT, HOT ENOUGH TO BURN SKIN ON CONTACT. SO DON'T TOUCH 'EM. AND KEEP OUT OF REACH OF CHILDREN AND PETS.
- DO NOT OPERATE WITHOUT SPEAKER OR OTHER SUITABLE LOAD CONNECTED TO THE SPEAKER JACK, AS DAMAGE TO THE AMPLIFIER AND YOUR REPUTATION MAY RESULT.
- DO NOT OPERATE NEAR ANY HEAT SOURCE, ESPECIALLY A SWEATY ONE.
- DO NOT OPERATE WITH VENTILATION OPENING(S) COVERED, AS THIS MAY OVERHEAT THE AMPLIFIER. DUH.
- DO NOT USE NEAR SPLASHING, FALLING, SPRAYING, OR STANDING LIQUIDS. AND DON'T EVER LET SOME FOOL SET HIS DRINK ON YOUR RIG.
- CLEAN ONLY WITH A LINT-FREE DRY CLOTH. DO NOT USE CLEANING AGENTS. WHO CLEANS THEIR AMP, ANYWAY?
- CONNECT POWER CORD ONLY TO A POLARIZED, SAFETY GROUNDED OUTLET WIRED TO CURRENT ELECTRICAL CODES AND COMPATIBLE WITH VOLTAGE, POWER, AND FREQUENCY REQUIREMENTS STATED ON THE APPLIANCE. THIS MEANS YOU.
- PROTECT THE POWER CORD FROM DAMAGE DUE TO BEING WALKED ON, PINCHED OR STRAINED. IF YOU SMELL AN ELECTRICITY LEAK, CALL THE AUTHORITIES IMMEDIATELY.
- UNPLUG THE APPARATUS DURING LIGHTNING STORMS, WHEN NOT IN USE OR FOR LATE-NIGHT SILENT OPERATION.
- REPLACE FUSE WITH CORRECT TYPE AND RATING AS INDICATED IN THIS MANUAL AND ON THE APPLIANCE. DO NOT STUFF WITH FOIL FROM YOUR CHEWING GUM.
- ONLY USE ATTACHMENTS, ACCESSORIES, STANDS OR BRACKETS SPECIFIED BY THE MANUFACTURER FOR SAFE OPERATION AND TO AVOID INJURY TO YOU AND MEMBERS OF THE AUDIENCE.

CHANNEL MODES

- CHANNEL 1 - CLEAN:** Rich, full-bodied cleans, with warmth and chime. Breaks up nicely at higher settings. Perfect for jazz, blues, country or as a pedal platform.
- CHANNEL 1 - CRUNCH:** Thick, classic-flavored overdrive, highly responsive to your touch. A solid rock sound, with great harmonic overtones.
- CHANNEL 2 - VINTAGE:** Mid-focused high gain. Cuts through the mix with a singing sustain. A great voice for solos.
- CHANNEL 2 - MODERN:** Tons of gain, nicely saturated, a huge but tight bottom end. A modern heavy sound, highly touch-sensitive, with clarity and girth.

FRONT PANEL CONTROLS AND FEATURES, Right to Left

INPUT Standard 1/4" guitar input jack.

CHANNEL 1 & 2 GAIN and Mode Switches See channel descriptions, above.

BASS, MID & TREBLE Tone-shaping controls, shared by both channels.

CHANNEL 1 & 2 VOLUME and Channel Indicator Post-effects loop Master Volumes. When the LED is lit, Channel 2 is active; when not lit, Channel 1 is active.

PRESENCE & DEPTH These controls work in the amp's power section to adjust the amp's overall brilliance and low-end thump, respectively. You may hear some scratchiness when rotating PRESENCE and DEPTH. This is normal.

Dual Power Mode Indicator Footswitch controlled. When lit, amp is in 100w mode (4 power tubes active); when not lit, amp is in 50w mode (2 power tubes active).

POWER, STANDBY & Indicator When powering up, switch POWER to ON while leaving STANDBY in the OFF position to allow the tubes to warm up. After a half-minute or so, flip STANDBY up to the ON position. To turn the amp off, simply flip both switches down to OFF. There's no need to put the amp in standby mode when shutting down.

REAR PANEL CONTROLS AND FEATURES, Left to Right

FOOT SWITCH Standard 1/4" jack for the included foot switch. Right switch = Gain Boost, left switch = Volume Boost.

Effects Loop SEND and RETURN Jacks Designed for use with guitar pedals. The Send signal is always present, even when the RETURN jack is not in use.

IMPEDANCE Matches the amplifier's output impedance to your speaker cabinet(s).

SPEAKER Two standard 1/4" speaker output jacks. Always use speaker cables - NOT guitar cables - to connect speaker cabinets, or damage to the amplifier may occur. Do not operate the amplifier without a speaker or suitable load connected, as this can cause damage to the amplifier.

Fuses Replace with same type and rating only. The MAINS fuse is on the main power input to the amplifier. The HT or High Tension fuse is on the B+ plate voltage supply.

Mains Input Standard IEC power inlet. Always use a proper grounded power cable. Your amplifier shipped with a Hospital Grade cable for reliability.