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hand-made all-tube non-clone guitar amps

Octal-Plex Series

OWNER'S MANUAL

Models JTX45, JTX50, JMX50, JMX100



The Octal-Plex Series is a family of guitar amps based on 1960s British plexi circuits adapted for octal preamp tubes and executed with true point-to-point wiring. Customizable options allow the gigging guitarist to create his or her ideal amp. 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 Octal-Plex Series amplifier as much as I enjoyed building it.

ESSENTIAL INFORMATION

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

	V1	V2	V3	V4*	V5	V6	V7	V8
JTX45	6SL7	6SL7	6SL7	6SL7	KT66	KT66	GZ34	
JTX50	6SL7	6SL7	6SL7	6SL7	EL34	EL34	GZ34	
JMX50	6SL7	6SL7	6SL7	6SL7	EL34	EL34	EL34	
JMX100	6SL7	6SL7	6SL7	6SL7	EL34	EL34	EL34	EL34

*If purchased with optional Effects Loop

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

Power: 120VAC, 60Hz, 2A (3A @ JMX100)

Mains Fuse: 3A Slow Blow, Type 3AG, 1/4" x 1-1/4" (4A @ JMX100)

H.T. Fuse: 500mA, Type 3AG, 1/4" x 1-1/4" (1A @ JMX100)

When replacing power tubes, always replace with a matched pair or quad and check and adjust the bias. 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.

FRONT PANEL CONTROLS AND FEATURES, Right to Left

INPUT Standard 1/4" guitar input jack.

NORMAL VOL, BRIGHT VOL & BRT/LINK/NORM Switch The switch gives you the channel options available on an original 4-input plexi. Choose the Normal Channel, Bright Channel or both channels internally linked. By mixing Bright and Normal Channels, you can dial in an infinite variety of mellow to cutting tones.

BASS, MID & TREBLE Tone-shaping controls.

MASTER VOL Post-phase inverter (PPI) Master Volume. Distortion can be obtained at any volume by setting NORMAL VOL and/or BRIGHT VOL high enough to overdrive the preamp, and setting MASTER VOL to any desired volume level. Setting MASTER VOL very high will send the power section into overdrive, too.

PRESENCE This control works in the amp's power section to adjust the amp's overall brilliance. PRESENCE will have a less-noticeable effect when MASTER VOL is at lower settings. You may hear some scratchiness when rotating PRESENCE. This is normal.

POWER & STANDBY 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.

Power Indicator Illuminates when POWER is set to ON.

REAR PANEL CONTROLS AND FEATURES, Left to Right

FOOT SWITCH Standard 1/4" jack or DIN jack for the included foot switch (depending on installed options).

Effects Loop (Optional) SEND LEVEL, SEND jack, RETURN jack, RETURN LEVEL and TRUE BYPASS switch are the interface to the powerful fully tube-buffered effects loop. For best performance with guitar pedals, set SEND LEVEL to 5-7 and set RETURN LEVEL to 8-10, being sure to avoid audible distortion in the return circuit. The Send signal is always present, regardless of the position of the TRUE BYPASS switch.

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.