‘65 REVERB TREMO AMP OWNER’S MANUAL

P/N 10001001

INTRODUCTION

Your “new” ‘65 REVERB TREMO AMP is a faithful combination of features found in many tube guitar amplifiers of the era. Unlike any “re-issue”- models, original 60´s style “turret board” style phenolic parts panel as well as point-to point style hand-made wiring between the components has been used in the amplifier. An optimized grounding scheme has also been applied to minimize any disturbances like hum.

The power and output transformers used in the ’65 REVERB TREMO AMP are built to the original specifications. Some components used in are different in size and shape from the amplifiers of the 60’s, but the key component values are identical.

The ‘65 REVERB TREMO AMP is 85 watts featuring a fixed bias push-pull output stage. This model may have some resemblance with Fender’s (AB 763) which is often referred to as a “Black- face Twin” (because of the control panel’s color) and was first introduced in mid 1963 and continued until mid 1968 when the control panel was changed to the silver swirl look that lasted through 1980. However, ‘65 REVERB TREMO AMP contains features like master volume control to enable either channel’s pre-amp stage to distort on demand while keeping the output volume at a reasonable level.

The speakers in the ‘65 REVERB TREMO AMP are specially designed by Jensen for musical instrument reproduction.

It is suggested you read this manual thoroughly to understand all the features and functions of the amplifier.

WARNING: TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE AMPLIFIER TO RAIN OR MOISTURE!

ONLY AUTHORIZED TECHNICIAN MAY OPEN THE AMPLIFIER!

LETHAL VOLTAGES INSIDE!

‘65 REVERB TREMO AMP FRONT PANEL FUNCTIONS

A, B. CLEAN CHANNEL INPUTS-Plug-in connection for instruments. Input 2 provides 6 dB more gain than input 1. The REVERB and TREMOLO features do not affect the CLEAN CHANNEL.

C. BRIGHTNESS SWITCH-This switch provides an extra boost to the high frequency response of the CLEAN CHANNEL. The effect is especially noticeable at lower volume settings.

D. CLEAN CHANNEL VOLUME CONTROL-Adjusts the overall loudness of the CLEAN CHANNEL.

E. TREBLE CONTROL-Adjusts the amount of high frequency boost (accentuation) or cut (attenuation) on the CLEAN CHANNEL.

F. MIDDLE CONTROL-Adjusts the amount of mid-range frequency boost or cut in the CLEAN CHANNEL.

G. BASS CONTROL-Adjusts the amount of low frequency boost or cut in the CLEAN CHANNEL.
Note: If all tone controls are full counter-clockwise, there will be no sound.

H. I. EFFECTS CHANNEL INPUTS-Plug-in connection for instruments. Input 2 provides 6 dB more gain than input 1. The EFFECT CHANNEL is affected by both the REVERB and TREMOLO features, and also provides more treble boost than the CLEAN CHANNEL.

J. BRIGHTNESS SWITCH-This switch provides an extra boost to the high frequency response of the TREMOLO CHANNEL. The effect is especially noticeable at lower volume settings.

K. EFFECTS CHANNEL VOLUME CONTROL-Adjusts the overall loudness of the EFFECTS CHANNEL.

L. TREBLE CONTROL-Adjusts the amount of high frequency boost or cut in the EFFECTS CHANNEL.

M. MIDDLE CONTROL-Adjusts the amount of mid-range frequency boost or cut in the EFFECTS CHANNEL.

N. BASS CONTROL-Adjusts the amount of low frequency boost or cut in the EFFECTS CHANNEL.
Note: If all tone controls are full counter-clockwise, there will be no sound.

O. MASTER VOLUME CONTROL- Adjusts the volume level after the pre-amplifiers. Master volume affects both CLEAN and EFFECT channels.

P. REVERB CONTROL-Adjusts the amount of reverberated signal that is mixed in with the original dry signal. Turning the control full counter-clockwise turns the REVERB feature off. The REVERB feature can also be turned on and off using the footswitch. Note that the REVERB feature does not affect the CLEAN CHANNEL.

Q. TREMOLO SPEED CONTROL-Adjusts the speed of the TREMOLO feature. Note that the TREMOLO feature does not affect the CLEAN CHANNEL.

R. TREMOLO INTENSITY CONTROL-Adjusts the intensity of the TREMOLO feature. Turning the control full counter-clockwise turns the TREMOLO feature off. The TREMOLO feature can also be turned on and off using the footswitch. Note that the TREMOLO feature does not affect the CLEAN CHANNEL.

S. PILOT LAMP-When the lamp is illuminated, the '65 REVERB TREMO AMP is receiving power. Should the lamp burn out, unscrew the red jewel and replace the lamp with a type Ba9s 6,3V 150mA light bulb.

'65 REVERB TREMO AMP REAR PANEL FUNCTIONS

B. FUSE-The fuse is in the AC supply of the amplifier and will help to protect the amplifier and operator in the event of an electrical fault. If a fuse blows, it should only be replaced with a fuse in accordance with the listing at the fuse holder (6.3x32mm glass tube type, 3.15A slow-blow). If the amplifier repeatedly blows fuses, it should be checked out by a qualified technician. UNDER NO CIRCUMSTANCES should a fuse of a different type, higher current rating, or a fuse bypass be used, as this could damage the equipment and present a serious safety hazard.

C. POWER SWITCH-This switch turns the AC power ON and OFF. When the switch is OFF (downwards), the amplifier is completely shut down.

D. STANDBY SWITCH-This switch turns the amplifier on and off. In the STANDBY (downwards) position, the amplifier is off; however, power is applied to the tube filaments so as to eliminate warm-up time. Use of this feature during short breaks versus using the POWER SWITCH will increase tube life.

E. INTERNAL SPEAKER JACK- Plug-in connection for speakers. This jack must always be used as the primary connection to speakers.

F. EXTERNAL SPEAKER JACK- Plug-in connection for an external speaker. This jack is wired in parallel with the MAIN SPEAKER JACK, and must only be used in conjunction with the MAIN SPEAKER JACK. Should the EXTERNAL SPEAKER JACK be used without also using the MAIN SPEAKER JACK, there will be no sound. Note that the amplifier is optimized for a 4 ohm speaker load, and that the speakers in the cabinet are wired for 4 ohms (Two eight- ohm speakers in parallel). Should a total load of more or less than 4 ohms be used, the amplifier will not put out its maximum power output before distortion occurs.

G. FOOTSWITCH CONNECTORS (2xRCA + 1x STEREO PLUG)- Plug-in connection for the footswitch. The footswitch allows you to turn the TREMOLO and REVERB features on and off without having to operate

the controls on the front panel. Note that only the REVERB feature will operate without plugging in the footswitch (active at foot switch “open” position). Either a shielded cable with RCA-type connectors or a cable with a stereo plug can be used.

H-I. REVERB TANK CONNECTORS – RCA-type Input connector connects to the reverb tank input (It’s actually an output from the amplifier point of view) and output connects to reverb tank output, respectively. The Reverb Tank is located on the bottom of the amplifier cabinet in a bag to eliminate any mechanical vibration feedback interference. Be careful not to damage the unit inside!

FOOT SWITCH TEATURES:

J. TREMOLO SWITCH-Push on, push off switch that turns the TREMOLO feature on and off.

K: REVERB SWITCH -Push on, push off switch that turns the REVERB feature on and off.

A. HUM BALANCE ADJUSTMENT-This adjustment minimizes hum heard at the speakers. It is set at the factory, and needs to be adjusted only if any of the smaller tubes, especially any of the 12AX7As, are replaced.

To make adjustment: With nothing plugged into the amplifier, rotate the EFFECTS CHANNEL volume, middle, and bass controls full clockwise. Rotate the EFFECTS CHANNEL treble control, and all the CLEAN CHANNEL controls full counter-clockwise. Turn REVERB and TREMOLO features off.
Locate the HUM BALANCE CONTROL potentiometer and rotate it back and forth until you find the null (setting of minimum hum). If you have any questions, consult your authorized Amplifier Service Center.

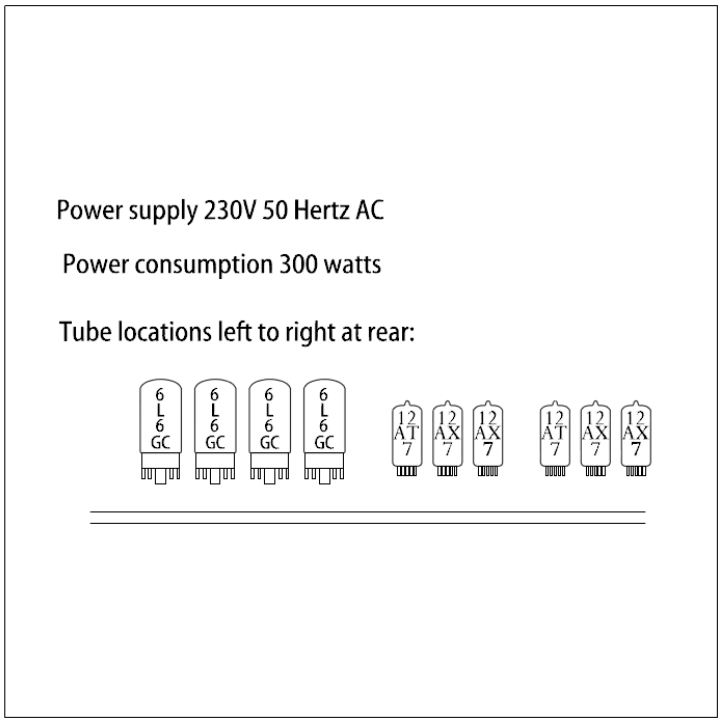
B. BIAS ADJUSTMENT-This is a factory adjustment only. Should the bias need adjusting, it should be performed by your authorized Amplifier Service Center. Bias should be checked whenever there is a need to change any of the power pentode tubes (6L6GC’s).Bias affects the quiescent current (without signal) of the power tubes. Biasing alters the class of operation of the amplifier and the 6L6GC’s plate (anode) power dissipation.

LINE CORD

Your amplifier is equipped with a grounding type supply cord to reduce the possibility of shock due to electrical fault. Be sure to connect it to a grounded receptacle. **DO NOT ALTER THE AC PLUG.**

TUBES

The '65 REVERB TREMO AMP tube complement consists of four Sovtek 6L6GCs , four Electro Harmonix 12AX7A's, and two Electro Harmonix 12AT7's. Tube location is printed on the tube label, inside the cabinet.



TROUBLESHOOTER'S CHECKLIST

If the amp is set up but does not function, check the following items:

- Is the amp power cord properly plugged into an electrical outlet?
- Is there power at the outlet?
- Is the fuse blown?
- Are the speakers properly connected to the amplifier?
- Is the amp on standby?
- Are the amplifier volume and tone controls turned up above "three"?
- Is the volume control on the instrument turned up?
- Is your instrument properly plugged into the amplifier?

(Eliminate any effects pedals and try another guitar cord.)

If, after checking all of the above, the system is not performing correctly, consult your Amplifier Service Center.

'65 REVERB TREMO AMP SPECIFICATIONS

PART NUMBER:	1- 1200.
DIMENSIONS:	HEIGHT: 19-7/8" (49.2 cm). WIDTH: 26-5/32" (63.5 cm). DEPTH: 10-3/8" (21.9 cm).
WEIGHT:	64 lb. (29 kg).
POWER OUTPUT:	85 watts R.M.S. minimum into 4 ohms.
OUTPUT IMPEDANCE:	4 ohms.
INPUT IMPEDANCE:	Input 2, both channels: 1M ohms. Input 1, both channels: 136k ohms.
FEATURES:	Tremolo and Reverb
POWER REQUIREMENTS:	230 volts AC, 50 Hz, 2.17 amperes, 260 watts.
FUSE TYPE:	3.15 ampere, slow-blow, 230 volt minimum.
SPEAKER COMPLIMENT:	2x 12" Jensen C12K speakers
REVERB TANK:	Accutronics 17" 2.75 to 4.0 sec. decay
SOUND:	Loud!