



Service TIPS

October 1976

FOR AUTHORIZED AMPEG SERVICE CENTERS

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B100/G100 — Fuse Failure

Early models were shipped with a 3/4 Amp Fuse. It was later found under certain conditions this fuse would open prematurely. This fuse should be replaced by a Bussman or Littlefuse 3/4 Amp Dual Element (Slow Blo) Fuse. The fuse can be replaced by removing the four screws holding the chassis and sliding it forward until the fuse is exposed. Total disassembly from the cabinet is not required.

SR-6 — IC Replacement

For increased reliability we have changed to a new supplier for the input IC 610265-1 the newer type IC can be identified by a large logo that looks like an X and an R superimposed on each other (). This logo precedes the numbers 4739. When this IC is installed in the input, capacitor C3 (.0039MFD) should be removed from the preamp board. This compensates for bandwidth differences. Failure to remove this capacitor could result in high frequency oscillation that will damage the power module under certain operating conditions.

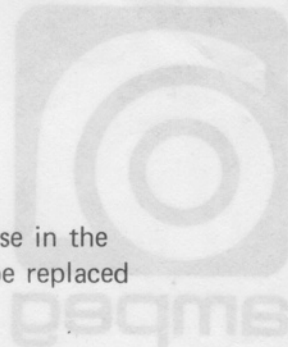
V4/ VT22 with distortion — Excessive Hum

The 6AN8 Tube should be checked first. We have found that it can cause a noticeable hum problem. The replacement tube should have a spiral filament, as supplied by Ampeg, to minimize the hum level.

Four Capacitors were added to the original design to help eliminate hum. These capacitors were .47MFD/600V capacitors connected in a series/parallel combination across the blue/yellow and violet wires from the screen winding on the transformer. These should be checked for proper operation.

V4/ VT22 with distortion — Oscillation

The shielding on tube VI which is a 12DW7 Tube is critical. If the tube shield is not completely extended oscillation may result. When you receive a unit with an oscillation problem check this tube shield first to make sure it is fully extended before proceeding with further repairs.



V4/ VT22 with distortion – Fuse Failure

The first production run of these newer models contained a 6 1/4 amp Slow Blo Fuse in the filament line. We later found this fuse would open prematurely. This fuse should be replaced by a standard 15A fuse.

V4/ VT22 with distortion – Red Plate Condition

It has been found that if the .15 Amp Fuse in the bias line touches the nearby mounting screw the bias will be lost. This will result in a red plate condition on the output tubes. To eliminate this problem the fuse should be moved so that it does not touch the mounting screw.

V4/ VT22 with distortion – Crashing Sound When Hit

On these newer models the input to the reverb is grounded. Due to this, even with the foot switch off, a crashing sound may be heard when the amplifier is hit. The only way to eliminate this is to turn the reverb control down.

120W Module – Transistors

We have changed the driver transistors in this module for greater reliability. Transistor 610262-1 has been replaced by 610262-9 and transistor 610262-2 has been replaced by 610262-10. The older transistors had a TO-18 case and the replacements have a TO-220 case which uses a thermal tab. In mounting the replacement transistor a small screw and nut would be required. The tab should also be isolated from the heat sink.

These are used as complimentary transistors. For easy identification all transistors are color coded black or gray for the NPN and green for the PNP. Also the Ampeg NPN transistor part number will end with an even digit and the PNP part number will end in an odd digit.

On the first production run using the newer type transistor our vendor supplied us with some parts stamped with the incorrect part numbers. The color coding is correct on these parts, and in replacing them the same color transistors should be used.

July Parts Price List Corrections

The 6U10 tube should be part number 610256-8. The 12AU7A tube should be part number 610256-9. The prices are listed correctly.

The last transformer listed before the "Reverb Units" is a PT-V2/VT40 dual voltage #300713-1. This should be #300726-1 with a \$64.75 list price, \$42.09 dealer price, and \$35.61 service price.