



TECH NOTES

Fender Musical Instruments Corp.
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PRODUCT(S) AFFECTED:

ALL AMPLIFIERS WITH SPRING REVERB

GENERAL GUIDELINES FOR REVERB PAN PLACEMENT / MOUNTING:

CONDITION:

The placement of the reverb pan in Fender amplifiers has already been optimized in each product, but on occasion someone has moved the pan, forgot to take note of it's orientation prior to removing, or is having complaints about a low-level hum that goes up and down with the turning of the **Reverb Control**.

GENERAL MOUNTING PHILOSOPHY:

Low-level hum can be picked up by the output section of the reverb pan - by it's proximity to the power transformer. The ideal mounting for the pan is to position it as far as possible from the power transformer, with the output jack (of the pan) farthest from the transformer. In most amps, this translates to the bottom of the cabinet, with the open side down, and jacks facing the front of the amp. There are a few exceptions to this rule - they will be addressed later.

Some pans are placed in bags, and the bags are then mounted with screws to the bottom of the cabinet (this is to avoid a firm mounting, which can sometimes produce strange oscillations). Other pans are screwed directly to the cabinet (loosely) - a rule of thumb is to tighten the screws to the point where the play in the mounting just disappears, then back off to create the smallest amount of play (actual dimension is not critical, but is approximately .010"). **Hint: "howling" can sometimes be fixed by loosening the pan mounting.**

GENERAL MOUNTING PHILOSOPHY (CONT)

In order to optimize the mounting of pans, the mounting springs for the internal floating platform are chosen to provide the correct platform floatation for the actual orientation of the pan mounting, i.e. open side down, open side up, mounted vertically with jacks up, mounted vertically with jacks down, mounted with input end up, mounted with output end up, etc. (Please see mounting plane chart).

When the pan is mounted in such a way as to cause the jacks to be near a cabinet surface or member, it is important to leave room enough to allow plugging-in and unplugging the leads

EXCEPTIONS:

The following list indicates reverb pans which **do not** mount horizontal open side down:

PART NO.	MOUNTING PLANE
031669	VERTICAL - CONNECTORS DOWN
040403	HORIZONTAL - OPEN SIDE UP
028592	HORIZONTAL - OPEN SIDE UP
033542	VERTICAL - CONNECTORS DOWN
047604	VERTICAL - CONNECTORS UP
051730	HORIZONTAL - OPEN SIDE UP
041397	HORIZONTAL - OPEN SIDE UP