



TUBE TONE BOOSTER

INSTALLATION

1. UNPLUG THE ORGAN - You will be exposing the power switch connections during this procedure.
2. Using the screws provided, mount the tone control head onto the front rail, at the far treble end of the organ.
3. Remove the organ back.
4. Using a suitable screwdriver, remove the 4-music desk retaining screws "A" in Fig.1.
5. Lift the music desk upwards and place it on top of the organ.
6. Using a suitable screwdriver remove the 2 front rail support screws "B" in Fig. 2.
7. Using a 9/16" wrench or socket wrench, remove the 4 manual retaining bolts "C" in Fig. 2.
8. To protect the finish, slip one manila folder between the manuals and side of the organ case at both the bass and treble ends of the organ.
9. Have an assistant push upwards in the middle of the lower manual, while you stand prepared to grasp the front of the lower manual and continue to raise the manual assembly.
10. While you hold the manuals up, have you assistant slip one prop block in at each end of the manuals.
11. With the manuals properly supported, feed the tone control cable from the front of the organ to the rear of the organ.
12. Make sure that the cable is routed from the front to the back in such a way that it is away from any moving parts, and that it will not be pinched by the manuals when they are lowered.
13. Lower the manuals back down, reversing the procedure used to raise them. DO NOT REINSTALL THE RETAINING HARDWARE YET.
14. Double check that the cable has not been caught below the manual assembly.
15. Set the Music desk back in position and install it's four retaining screws.
16. Mount the Power Supply / Amp chassis in a location where the cables from the tone control can reach it. Usually this will be to the left of the preamp chassis, if a connector kit chassis is mounted here, you should relocate it so both chassis can be mounted in this area.
17. Attach the Blue and Gray wires to the Blue and Gray wires leading from the generator to the preamp.
18. Insert the Tone Control cable's 4-pin connector into the matching 4-pin connector on the PS/A Chassis.
19. Remove the 12BH7 (B3 / C3 / RT3 / A100 / D100) or 6SN7 (B2 / C2 / RT2) tube from the preamp. (See Figs. 3 & 4.)
20. Plug in the interceptor into the socket formerly occupied by the tube removed in step 19.
21. Plug the tube removed in step 19 into the top of the interceptor.
22. Remove one of the screws from the terminal cover plate ("D" in Fig. 3) and then reinstall it with the ground pigtail under the screw.
23. Reinstall the back.



24. Plug the organ's power cord back in and start it, checking for proper operation as outlined in "HOW IT WORKS" below.
25. Once proper operation is verified, reinstall the 9/16" bolts and 2 screws (B and C in Fig. 2).

HOW IT WORKS

This tone booster is like no ordinary EQ. With both knobs at "0" (Fully counter-clockwise) the organ's tone is COMPLETELY unaltered. Begin to turn up either the Bass or Treble control, and the corresponding tonal range will be boosted above the level of a "Stock" Hammond organ.

BASS KNOB - Brings on the "Thump" and the deep supporting tones in the low end.

TREBLE KNOB - Take the top end from laid back and mellow to cutting razor.

VARIATIONS

As mentioned above, this EQ was designed and set at the factory to have NO impact on the tone of the organ when both tone controls are set to zero. It is possible however to boost the organ's level (or reduce it) by altering the blue trim pots on the PS/A assembly.

The one marked with the black dot is the Output Level, and the one with no marking is the Input Level. Make a note of their positions before making any adjustments!

Once you have recorded their original positions you can experiment with different levels to see if it is what you like. It's best to think of the input trimmer as being like a "Volume" control on a guitar amp, and the output trimmer as being like the "Master Volume" on the same amp. For those who are unfamiliar, you can get a lot of distortion at low volumes (if that's your thing) by setting the output trimmer to a low volume and setting the input trimmer to a high setting.

Be warned it is possible on some organs to set the adjustments too high, resulting in feedback; (a whistling or howling tone) if this feedback occurs you must reduce the levels to eliminate it.

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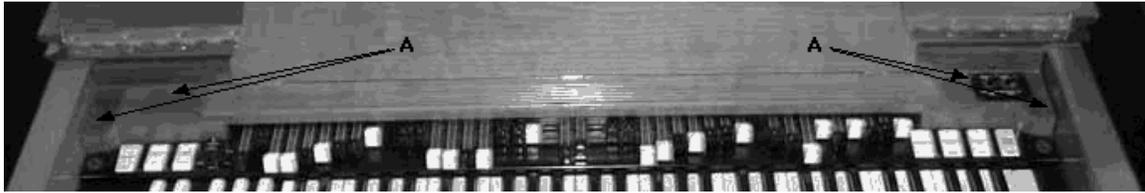


FIG 1 - Looking down on the Music Desk

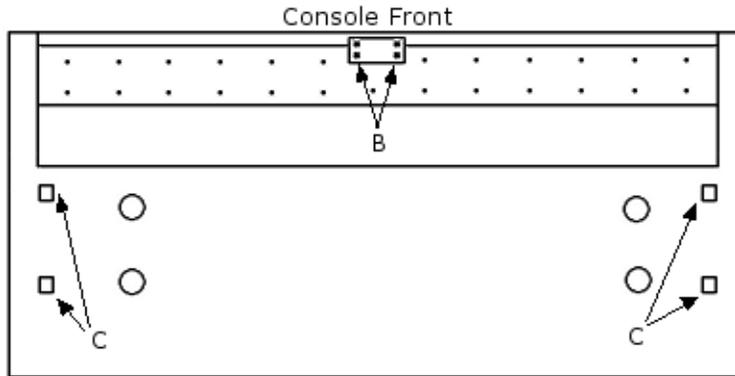


FIG 2 - Underside view of Console

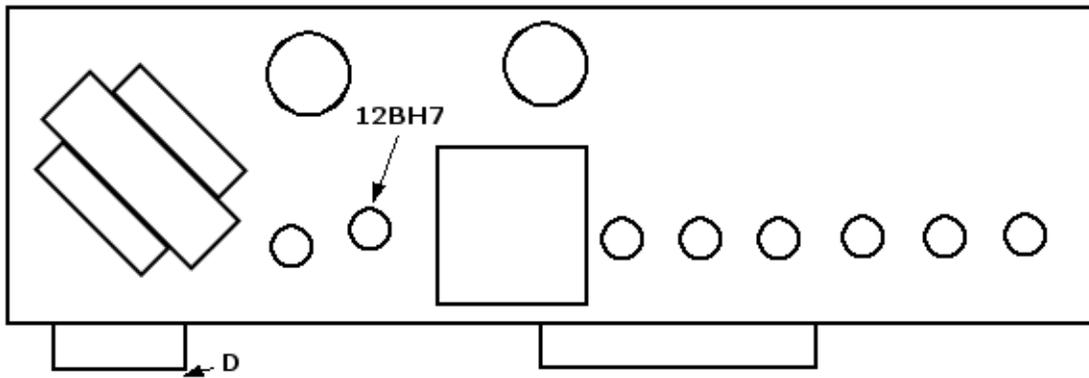


FIG 3 - Top Down view of B3 / C3 / RT3 / A100* / D100* Preamp
 * A100 and D100 preamp is mounted upside down, turn this sheet upside down for proper orientation

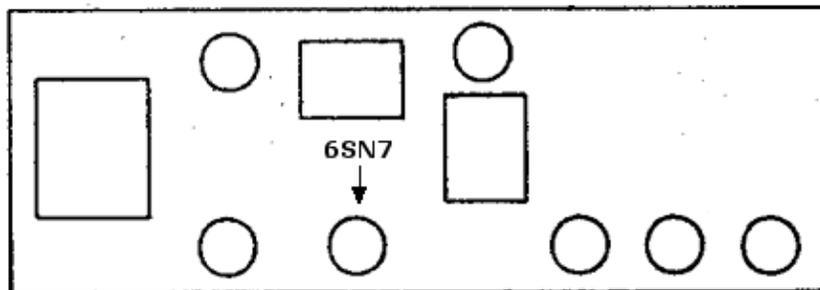


FIG 4 - Top Down view of B2 / C2 / RT2 Preamp

ADDENDUM

**For All organs containing a 122 Tremolo control kit and Speakeasy Tube
Tone Booster.**

Due to the extreme boost of the treble range of our Tube Booster, some installations may experience a "Snap" or "Pop" when switching Leslie™ speeds.

This condition has always existed, but with our tone booster it can become audible. The solution is to add an 18,000-ohm ½ watt resistor across the tremolo switch contacts.

Installation

- Remove the bottom cover of the tremolo switch and lower the switch out of the housing.
- Install the included resistor by attaching each end to the two terminals where the brown "zip" cord is attached to the switch (see Fig. 1).
- Reassemble the switch and check for proper operation.

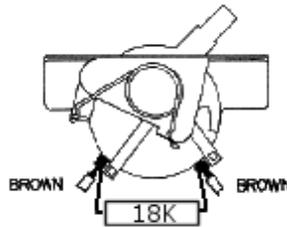


Fig. 1

For all organs with a "Volume Soft/Normal" tablet.

Some consumers have expressed that they find the "Soft" position to be too soft after the tone booster is installed. There is a simple remedy for this situation.

- Install a 100K resistor across the volume switch (terminals E and F on an AO-28).