

PAT5 Tone Control POTS Installation Hints

Rev 1p1

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1. Disconnect your PAT-5 and unplug it from your system and power before proceeding.
2. Remove the 5 screws that hold the cover in place (2 on the left side, 2 on the right, and 1 in back).
3. Remove the front panel knobs using a 1/16" allen key to loosen the set-screws.
4. Remove the three control nuts that hold the front panel in place (typically one on the selector, one on the balance, and one on the speaker selector switch).
5. Remove the front panel.
6. Loosen the nuts on the bass and treble controls, but don't fully remove them.
7. Use the labels supplied with the kit to mark the wires on the treble control. Label each wire as you de-solder it from the old control.
8. When you install the new wires, just insert them into the pot terminals. At most, one J-hook of lead is warranted.
9. Remove the old treble control and replace it with a new treble control. Note that both the treble and bass control have the same characteristics, and so are interchangeable. These hints may help you make an error-free transition:
 - a. Only remove one label at a time so you don't lose track of which wire you're working with.
 - b. Solder each wire in place before moving onto the next label and wire.
 - c. Remember to install the 15 pF disc ceramic capacitors.
 - d. For now, only hand-tighten the nuts.
10. Remove the old bass control and replace it with a new bass control. . These hints may help you make an error-free transition:
 - a. Only remove one label at a time so you don't lose track of which wire you're working with.
 - b. Solder each wire in place before moving onto the next label and wire.
 - c. Remember that each outside terminal has two wires.

- d. For now, only hand-tighten the nuts.
11. Trial-fit the front panel. You may have to slide the bass and treble controls up and down, left and right to make the panel fit. Once you know which way the controls should be moved, move them that way and tighten up the nuts.
 12. Replace the front panel. Tighten the 3 nuts on the controls (input selector, balance, and speaker selector) to hold the front panel in place.
 13. Replace the knobs and tighten the set screws.
 14. The treble and bass pots will be close to neutral when centered if you set the knobs for symmetrical travel, stopping for example at 7 o'clock (fully counter clockwise) and 5 o'clock (fully clockwise). A more neutral adjustment would require significant equipment. Remember that you can always disable the tone control for flat response.
 15. Visit <https://www.updatemydynaco.com/pat5.html> for more information about the PAT-5 wiring.

