

Prophet '08 Module PE Conversion Instructions

Converting a standard Prophet '08 Module to a PE (potentiometer edition) is easy. The PE panel board is a direct replacement for the standard panel board. The main board may need a minor modification, but anyone with basic soldering skills should be able to do it.

What is Supplied

- Panel board

What You Will Need

- Phillips head screw driver (#2 recommended)
- A towel or bubblewrap or some sort of padding to protect the top panel while you remove the panel board
- A computer with a MIDI interface and an application—such as MIDI-OX (Windows OS), SysEx Librarian (Mac OS), or the Prophet editor/librarian—capable of opening and sending SysEx files

What You May Need

- Soldering iron with a fine tip for removing surface-mount parts
- Solder
- Tweezers
- A short piece of bare (un-insulated), light gauge, solid core wire. Wire-wrap wire or a bit of component lead works fine. Less than .25" (6.5 mm) is required.
- Magnifying light (recommended)

Update the Operating System

1. Go to http://www.davesmithinstruments.com/support/current_os.php and follow the instructions for checking the installed OS versions.
2. If necessary, download and install the latest version(s) using the instructions provided on the Web site. The Prophet '08 Module PE requires Main OS version 2.0 or higher.

Open the Prophet '08

3. Remove the knobs. They just slide off.
4. Remove the four screws from the front panel, the five screws across the back, and the five screws on the bottom front edge.
5. Lift the top panel at the back until it clears the bottom panel, slide the whole top panel forward slightly, and lift straight up. There are two cables connecting the top panel to the bottom, a ribbon cable and the power switch cable.
6. Disconnect the ribbon cable from the panel board. The cable does not have

a locking mechanism. Simply grasp the cable firmly at the end and carefully pull it straight out of the connector.

7. Disconnect the power switch cable from the main board.
8. Lay the top panel face down on a padded surface.

Remove the Panel Boards

9. Remove the board screws.
10. Lift out the panel board.

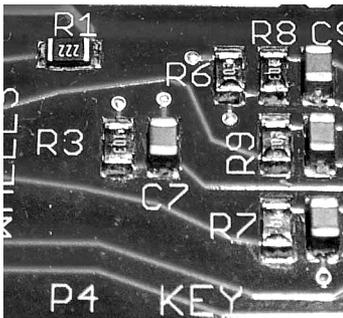
Install the New Panel Board

11. Put the new panel board in place and secure it with the board screws. Check to make sure that none of the buttons are binding in their panel holes.

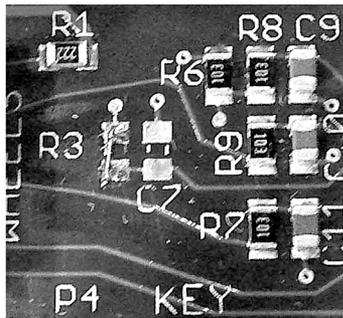
Remove and Modify the Main Board

Please note: This modification may already have been made at the factory. The main board is on the left on the bottom panel. If C7 is not installed, you can skip this procedure and reassemble the Prophet. (If modified at the factory, R3 is replaced with a 0 ohm resistor rather than a piece of wire.)

12. Remove the remaining cables from the main board.
13. Remove the board screws anchoring the main board to the bottom panel.
14. Remove the main board.
15. Using the soldering iron and tweezers, remove the two small, surface-mount components designated R3 and C7. They are located in the lower left corner of the main board. If you are having difficulty seeing the parts clearly, a magnifying light is recommended.
16. Cut a small piece of wire to replace R3.
17. Solder the wire between the pads previously occupied by R3.



Before



After

Re-assemble the Prophet

18. Put the main board in place and secure it with the board screws.
19. Reinstall all of the cables.
20. Set the top panel in place and power up to make sure everything is functioning properly.
21. Secure the top panel with the screws.
22. Re-install the knobs.

