

SwanCrystal/Wonderswan front light kit 2 installation guide

Kit Contents:

- 1x Light Guide Panel
- 1x set of black and blue pre-soldered wires
- 1x resistor
- 1x contrast dial (optional)
- 1x switch (not used)

What you need:

- Small Tx-star screwdriver
- Cutting tool
- Soldering iron
- Adhesive (optional)



Step 1:

The first step is to remove the back plate of the system. Using a small tx-star screwdriver, unscrew the 6 screws on the back of the system. Remove the plate then store the screws and the small white battery lock plate in a safe spot.



Step 2:

Now it's time for some gentle prying. Using your flathead screwdriver, gently pry the joystick thumb piece off the shaft. Next, use the screwdriver to separate the speaker from the system; this can be done with just a bit of force. Next, carefully pry the LCD off the front panel. Finally, remove the screen cover off the front of the panel. You'll need to remove the screen cover so that it doesn't get damaged during step 3.



Step 3:

For the front light to fit properly, a section of the front panel of the system has to be cut, marked in red in the images below. Note that there are four cuts, including a small portion of the A button area. The best method if you're low on tools is to use a pair of sharp pliers or scissors to cut the pieces, then a file to sand down the job evenly.



Step 4:

Now it's time to assemble the screens. Please read the following instructions fully as this step should be done very swiftly. First stick the screen cover back on the front of the system. After peeling the protective layer off the light guide panel, put it in place as indicated by the image below. Do this swiftly to avoid getting dust between the screens. Note that the front light should be adjusted to cover the **entire** viewing area of the screen.



Step 5:

Place all the buttons and rubber contacts back into place. After peeling the second protective layer off the light guide panel, carefully place the LCD back into position on the system. It is a good idea to put some electrical tape over the front light contact, where the wires are, as can be seen below.



Step 6:

At this point you may choose to have the front light permanently on, control it with a switch, a contrast dial, or install the Mash-Mods front light dimmer chip. To have the light always on, solder the black wire to the GND point indicated in the pin below, and the blue wire to the positive power supply.



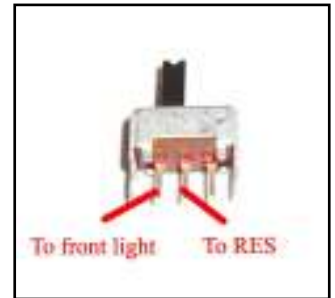
To install contrast dial:

- Solder the blue wire from the front light panel to either the left or right pin of the contrast dial.
- Solder a wire between the middle pin of the dial and the power supply (blue wire point on board).
- Using adhesive, glue the contrast dial to the system, at an edge where you want access to it. A good spot is at the bottom of the console.
- Cut a hole out of the back plate to accommodate the position of the dial.



To install on/off switch:

- Solder one pin of the switch to the blue wire from the front light panel.
- Solder the pin next to it to the power supply on the board (blue wire point on board).
- Using adhesive, glue the switch to the system, at an edge where you want access to it. A good spot is at the bottom of the console.
- Cut a hole out of the back plate to accommodate the position of the switch.



To install light dimmer chip:

- An installation diagram of the chip for the NGPC can be found at:
http://www.mash-mods.com/mods/products/files/70/ngpc_dimmer.jpg

Step 7:

Almost done! Screw the system back together and you're ready to play in the dark! If you installed the contrast dial, make sure it can rotate smoothly. If not, open the system back up and increase the hole size so that there is no contact between it and the system.

