

MANUAL PART 2

Now we are going to wire up the relay board

- O Take the wiring diagram with you
- O Connect the 25 cm long **yellow** wire n° 1
- O Connect the 18 cm long white wire n° 2
- O Connect the 8 cm long **yellow** wire n° 3
- O Connect the 18 cm long white wire n° 4
- O Connect the 25 cm long **yellow** wire n° 5
- O Connect the 30 cm long white wire n° 6
- O Connect the 18 cm long white wire n° 7
- O Connect the 25 cm long **yellow** wire n° 8
- O Connect the 25 cm long white wire n° 9
- O Connect the 8 cm long **red** wire to the ground of modulator 3
- O Connect the 47 cm long **yellow** wire to the + terminal of the relayboard

Pfww, we are finished with the cables, now let's connect them to the extension module !

We will start with the cables coming from the modulators.

It's very important to this correct, or else the string section will not sound right !

- O Take the **black** coded double wire , connect white to 5-9 I of the extension board
- O Solder the red wire to 10-4 next to it
- O Take the **white** coded double wire , connect white to 5-9 II of the extension board
- O Solder the red wire to 10-4 next to it
- O Take the **transparent** coded double wire , connect white to 5-9 III of the extension board
- O Solder the re wire to 10-4 next to it
- O Solder the **grey** coded single wire to most left connection "A"
- O Solder the **green** coded single wire to the middle connection "A"
- O Solder the **red** coded single wire to most right connection "A"
- O Tie them neatly together with tie straps.

We will now connect the other shielded cables

- O Solder the white coded wire (coming from the orbitone amplifier) to terminal "Main Amp"
- O Solder the **red** coded wire : red to terminal "ORB 106-2"
- O : white wire to terminal "ORB 106-1"
- O Solder the 16 cm long **blue** cable (with earth connection) to SSOUT-2
- O Solder the earth connection to GND underneath
- O Solder the other end to terminal Y (connected to resistor R38)
- O Solder the 28 cm long **red** cable (with earth connection) to terminal 11
- O Solder the earth connection to terminal 9 above
- O Solder the other end to terminal SSIN
- O Solder the **blue** coded cable : red wire to terminal SE35-2
- O : white wire to SE35-1
- O Solder the **yellow** coded cable : red wire to terminal SE107-2
- O : white wire to terminal SE107-1

We will now solder the single cables :

- O Solder the 2 green wires to terminals SUST BIAS
- O Solder the red wire to terminal SHIELD GND
- O Solder the orange wire to terminal -25
- O Solder the yellow wire to terminal +25
- O Solder the black wire to terminal 1-3

- O Solder the blue wire to terminal MUTE
- O Solder the yellow wire (coming from the relay board) to terminal 2

9. THE CONTROL BOARD

Almost there !

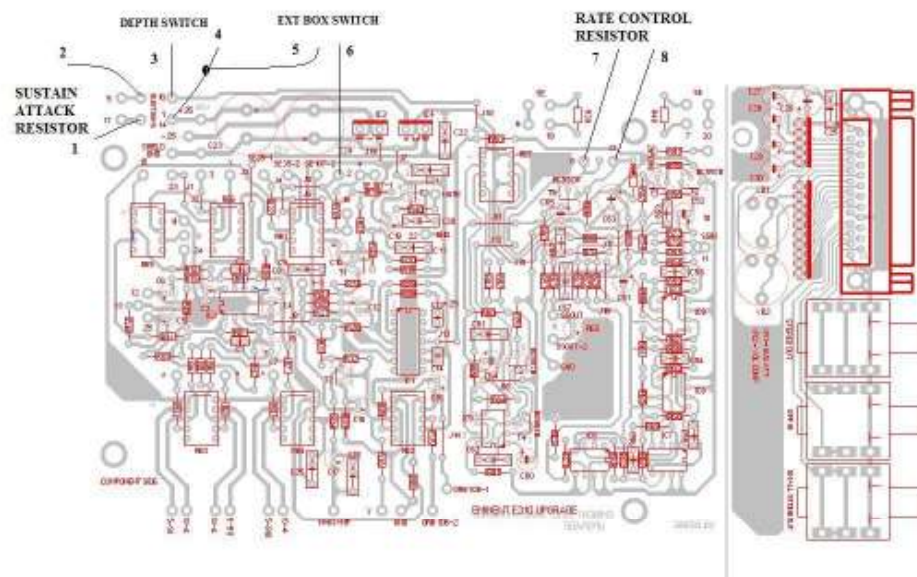
Now it's time to take care of the control board.

- O Depending of your likes, use a wooden or metallic frame for the controls (I used a wooden frame in the same color of the eminent)
- O Insert a 22k potmeter in 1 of the holes (SUSTAIN ATTACK).
- O Insert a 1M potmeter in 1 of the holes (SMALL STONE RATE).
- O Insert a switch in 1 of the holes (EXT BOX SWITCH).
- O Insert another switch in the remaining hole (DEPTH).

10. WIRING UP THE CONTROL BOARD

- O Take the wiring diagram with you.
- O Use a 10 lead shielded cable of 2 meters long and strip the cables.
- O Drill a 8mm hole underneath the left of the organ (be carefull)
- O Put this cable through this hole.
- O Depending of the colors in the cable , colorize the drawing of the diagram to exclude errors.
- O Connect wire 1 to the center terminal of the 22k var. resistor
- O Connect wire 2 to the left terminal of the 22k resistor (top view)
- O Connect wire 3 to a terminal of the small stone depth switch
- O Connect wire 4 to the other connection of this switch.
- O Solder another wire to this terminal (wire 5).
- O Solder this wire 5 to a terminal of the extension box switch.
- O Connect wire 6 to the other terminal of this switch.
- O Connect wire 7 to the center terminal of the 1M var. resistor.
- O Connect wire 8 to the left terminal of the 1M var. resistor (top view)
- O Screw the control board underneath the organ at your left. Use 2 small screws.

WIRING DIAGRAM CONTROL BOARD



MODIFICATINO DIAGRAM

REMARK : Use 2 single wires of a stranded wire in the holes of the IC socket IC2.
Use 1 single jumper wire for the connection on Re5.

