

DENTAL EQUIPMENT TROUBLESHOOTING

PROBLEM: NO POWER TO CHAIR

The chair is inactive and the small green light on top of the chair base cantilever (Diagram 1) does not light up.

1. Check that the chair is plugged in and the power is switched on.
2. If the chair is plugged into a multi-outlet power board, the power board will usually have a small trip-switch on the side (a circuit breaker). If the trip-switch has popped out, push it in again.
3. You can test the power outlet that the chair is plugged into by connecting equipment to it that you know is working.
4. Check the building's fuses or circuit breakers.

If there is still no power to the chair, an internal fuse may have blown.

Replacing the fuse is a simple procedure but requires removing the chair motor pump cover and thus exposing high voltage circuitry.

Before opening the cover, unplug the chair from the power outlet.

- Using a 5/32" hex key (Allen key), remove the two button head screws from each side of the cover and lift it (Diagram 1).

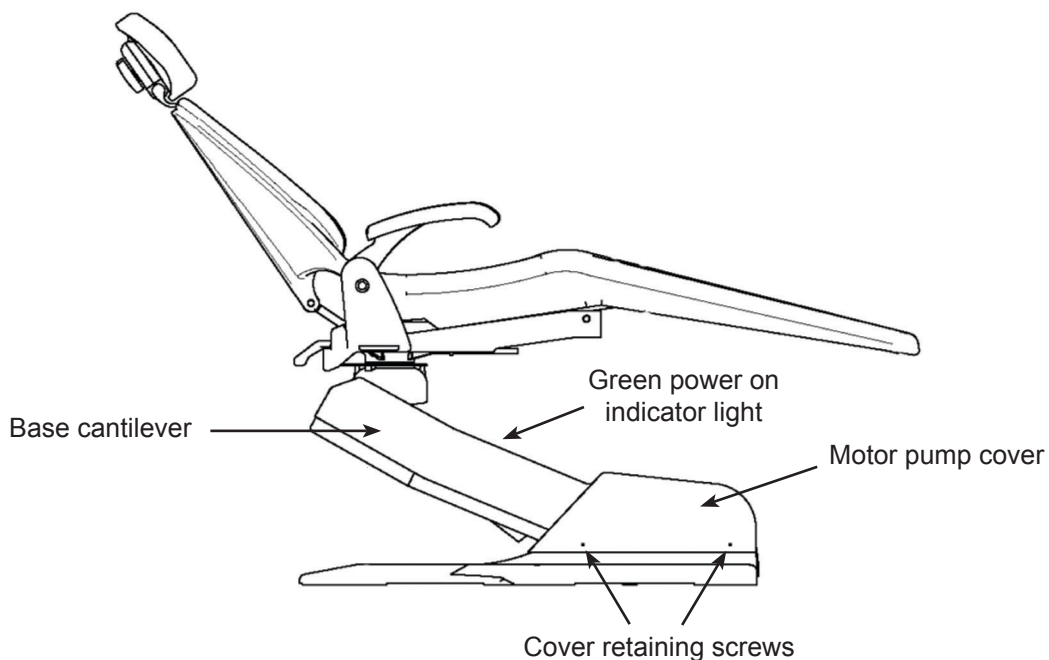


Diagram 1: 3900/3901 Dentist's Chair

The chair's fuses are located on the circuit board, which is on the right-hand side of the motor pump area (see Diagram 2).

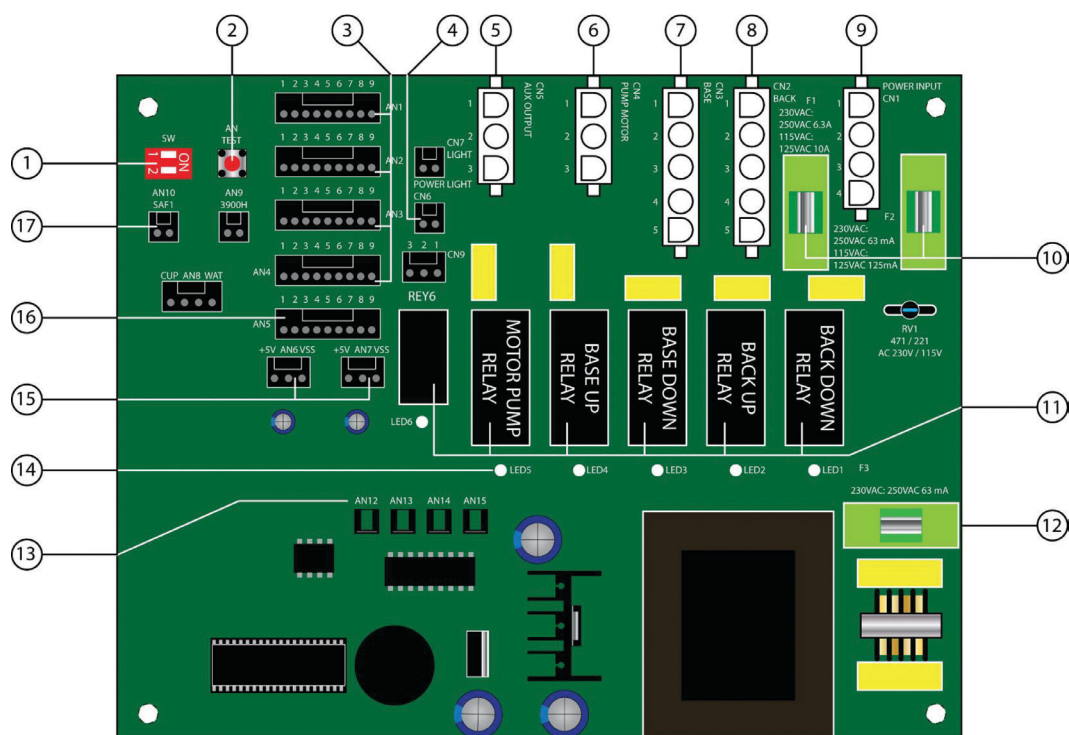


Diagram 2: Chair circuit board, as seen from the entry (right-hand) side

The fuse most likely to have blown is marked no. 12 on the diagram.

- Pull up the cover of the green plastic fuse-holder; the fuse will come with it. You may need to use your fingernails or a small screwdriver.
- Remove the glass fuse and inspect it. It may be possible to check the fuse's condition by holding it up to the light and seeing if the wire is intact. But for a more definite check you should test the fuse's continuity using a multimeter. If in doubt, there is no harm in replacing the fuse.

The fuse supplied by Forest is very low rated (63 mA) and we suggest replacing it with a higher rated fuse of 1 Amp.

Replacement fuse: 250 Volts 1 Amp, type M205 (20mm x 5mm). These are readily available from electronics shops such as Jaycar. Spare fuses may have been left with you when your chair was installed.

- Insert the new fuse into the fuse-holder cover and snap it back into place.
- Replace the motor pump cover, plug the chair's power in and switch on. The small green power light on the base cantilever should light up.

A blown fuse is the most common cause of a chair losing power. If replacing the fuse does not solve this problem, contact your nearest Forest technician.

If you are not confident about performing this procedure, call your Forest technician or an electrician, who will be able to do it for you.

The diagrams are from Forest's *3900 Dental Chair Service Manual*, which can be downloaded from our website at forestdental.com.au/products.html.