

SERVICE MANUAL

Controllers



Replacing Components

Version 1.4

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1 Processor

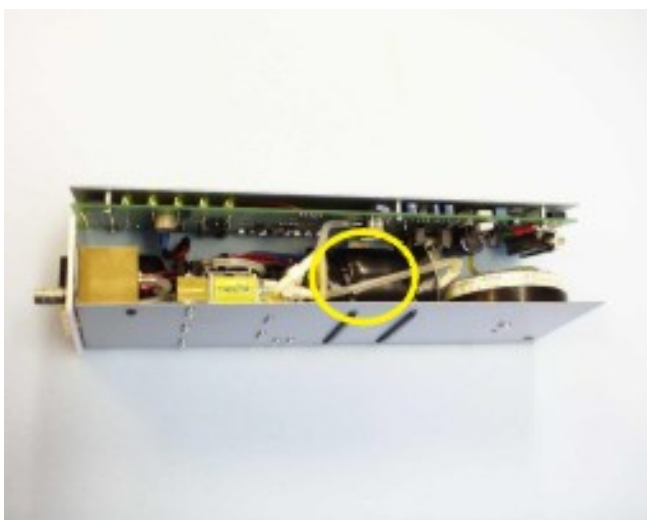


41131O Optima
41131P Prone
41131N Nova
41131NEO Neo
41131S Smart
41131OHC OptimaHC

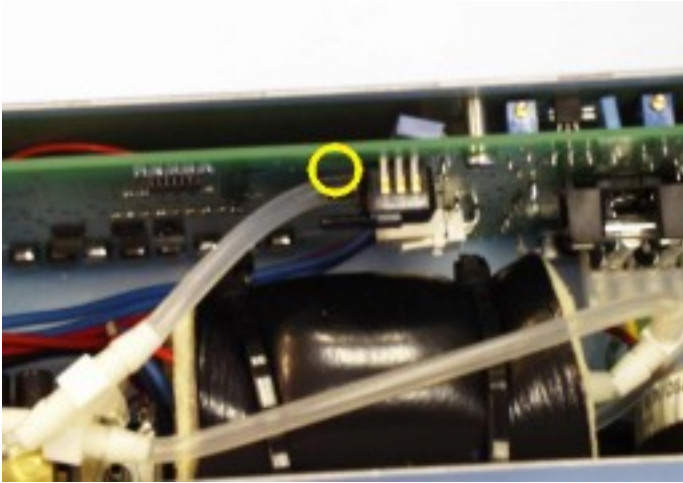
1. Open the four edge screws at the left end of the box.



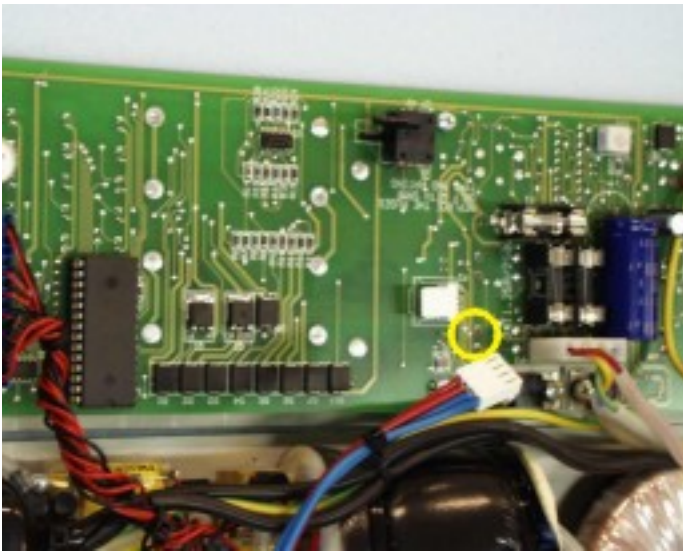
2. Slide the assembly plates out.



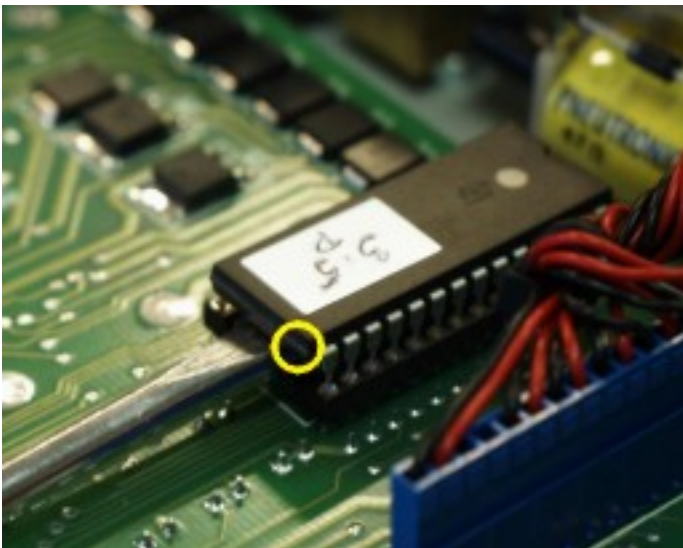
3. Place the controller pressure sensor facing up.



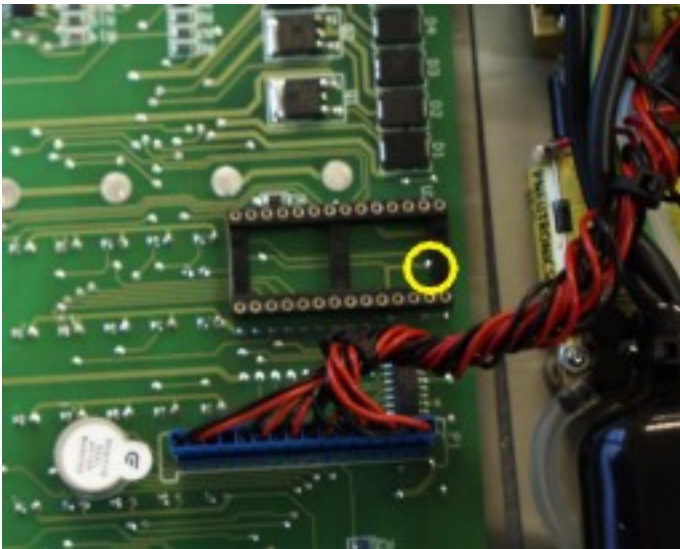
4. Disconnect the tube leading to the pressure sensor.
- NOTE!** When reconnecting the tube be sure to use the inner sensor hose facing the board.



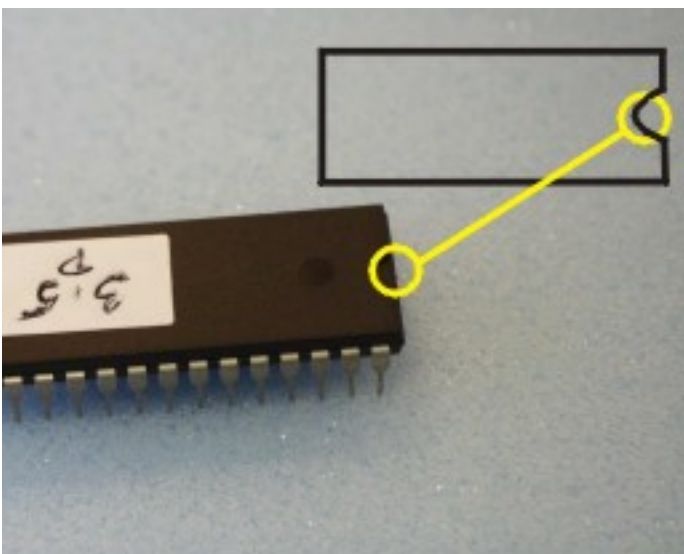
5. Disconnect the wire set leading to the board. Turn the board upside down.



6. Lift the zip gently by using a flat screw driver. Place the head between the adapter and the zip.

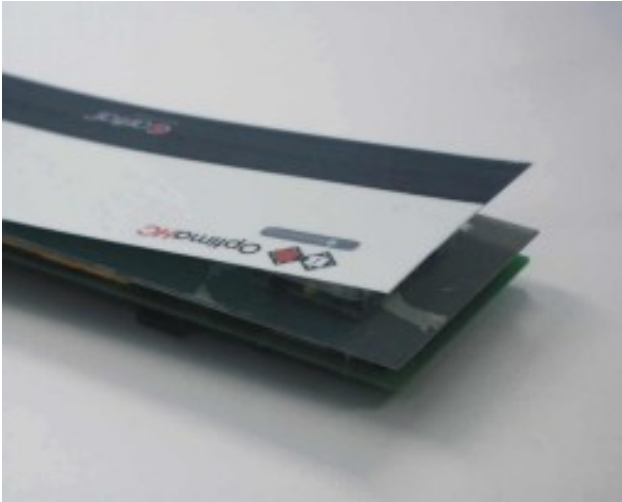


7. When installing the new zip, pay attention to the direction mark in the short side of the zip adapter.



8. You can find the same marking on the short end of the zip. These marks must sit on each other.

2 Keyboard laminate



9901-KL	<i>Optima</i>
9901P-KL	<i>Prone</i>
9902-KL	<i>Nova</i>
9904-KL	<i>Neo</i>
9906-KL	<i>Smart</i>
9901HC-KL	<i>OptimaHC</i>

1. Tear off the old film.

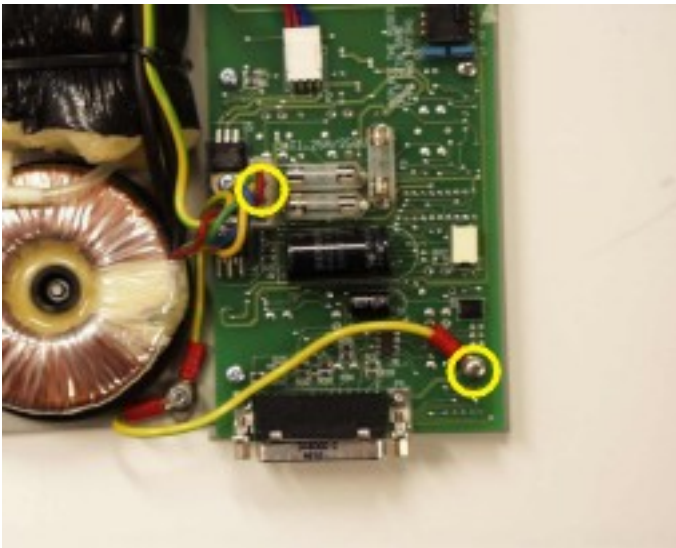


2. Remove the cover sheet from the self-adhesive keyboard film.



3. Place the new film on the top of the plate.

3 Circuit board



1. Disconnect the wires marked with 

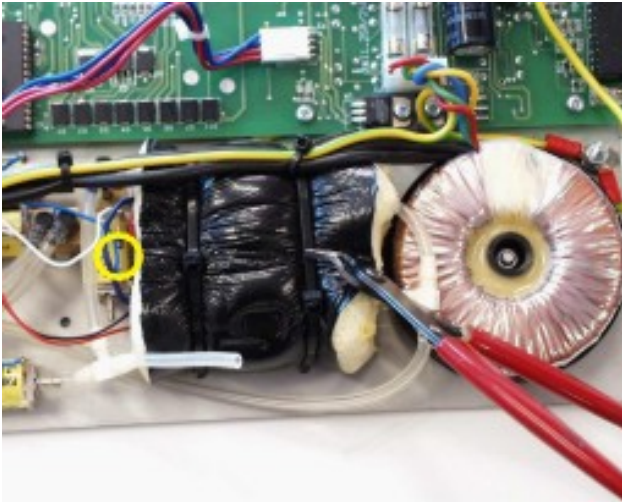


2. Disconnect the wires marked with 
Swap the board.

4 Pump set

41092p pump set (two pumps pre-assembled)

NB! The life time of a pump set is about two years depending on use. Both pumps must be changed at the same time.



1. Remove the pump set by cutting the cable ties.
2. Use soldering iron to disconnect the pumps. ○



5 Magnetic valve

41092mv magnetic valve set



1. Use soldering iron to disconnect the valve. ○

2. When replacing the valve remember the nut. →

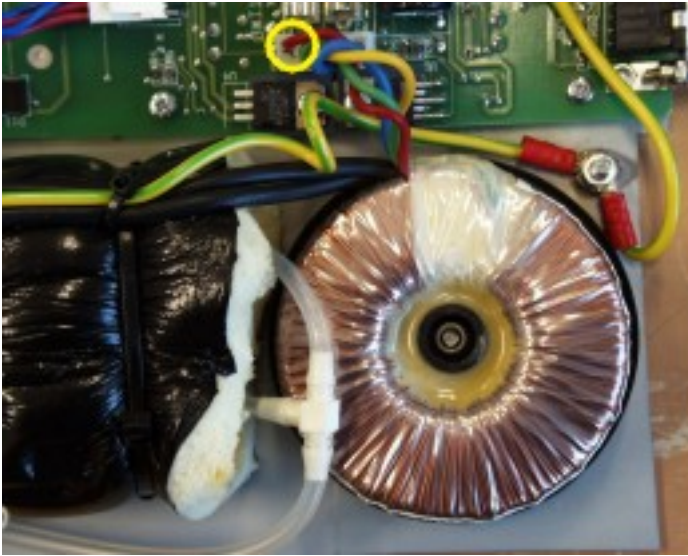


2. Open the screws.

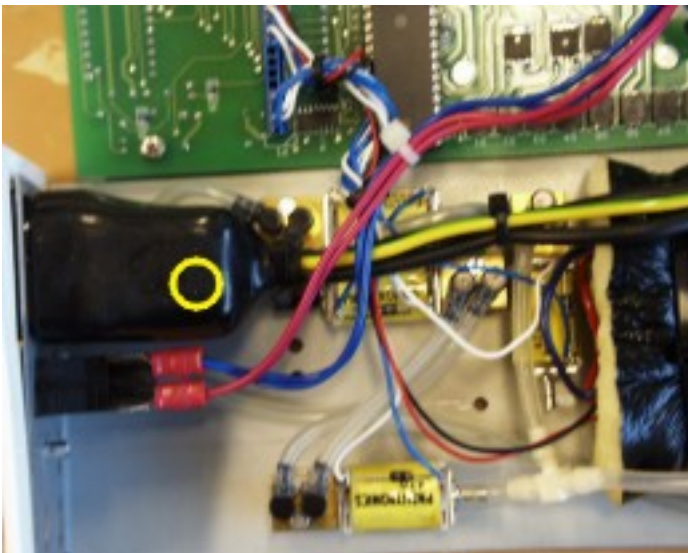
3. Use double sided tape between the coil cradle and the assembly plate to hold the coil in place. △

6 Transducer

41085 transducer



1. Open the connection screw → and plug the leading in to the circuit board. ○



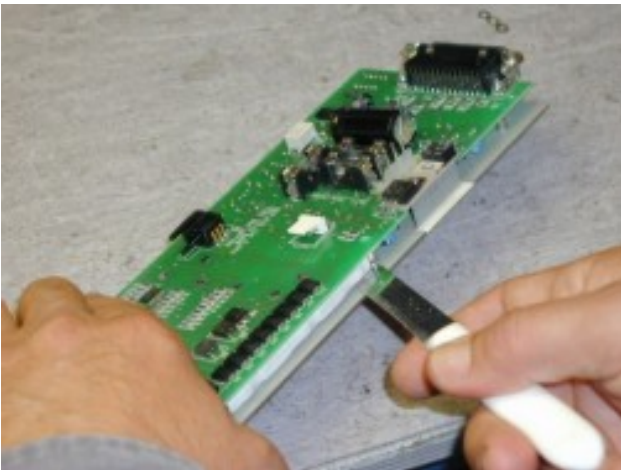
2 . Disconnect the wiring from the mains. ○

7 Battery

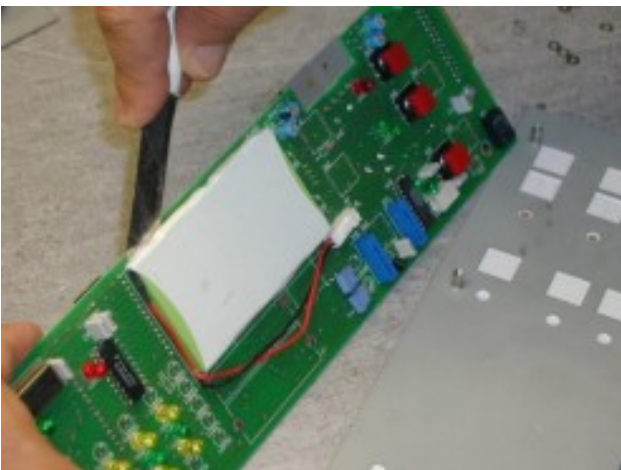
BATTSET



1. Disconnect the tubes from the old battery.



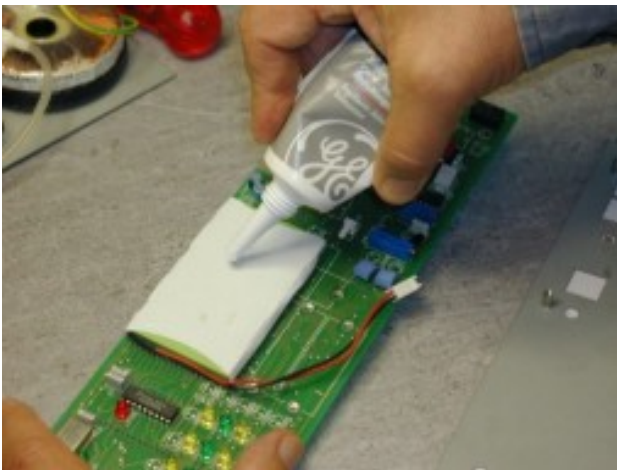
2. Detach the battery from the top plate using a knife.



3. Detach the battery from the circuit board using a knife.



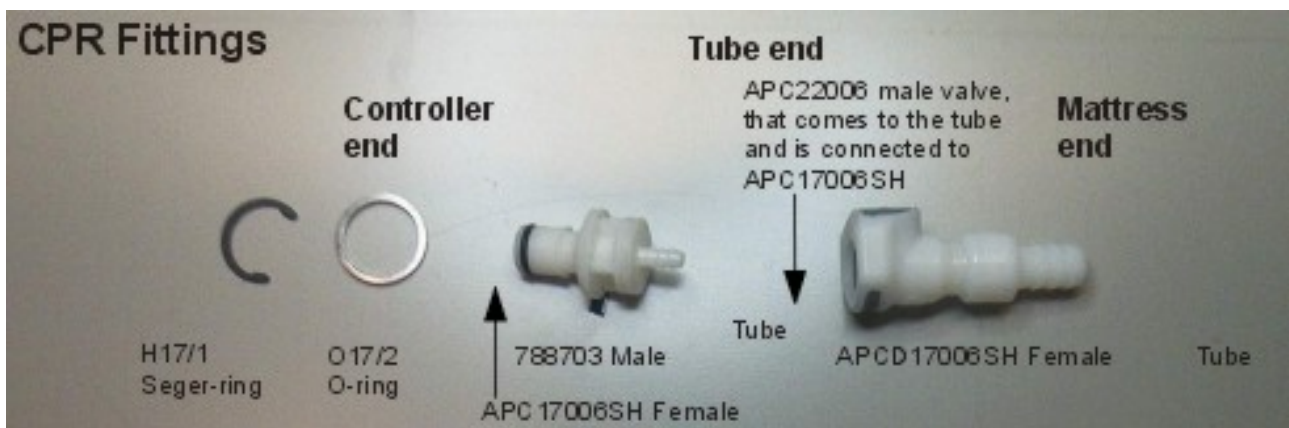
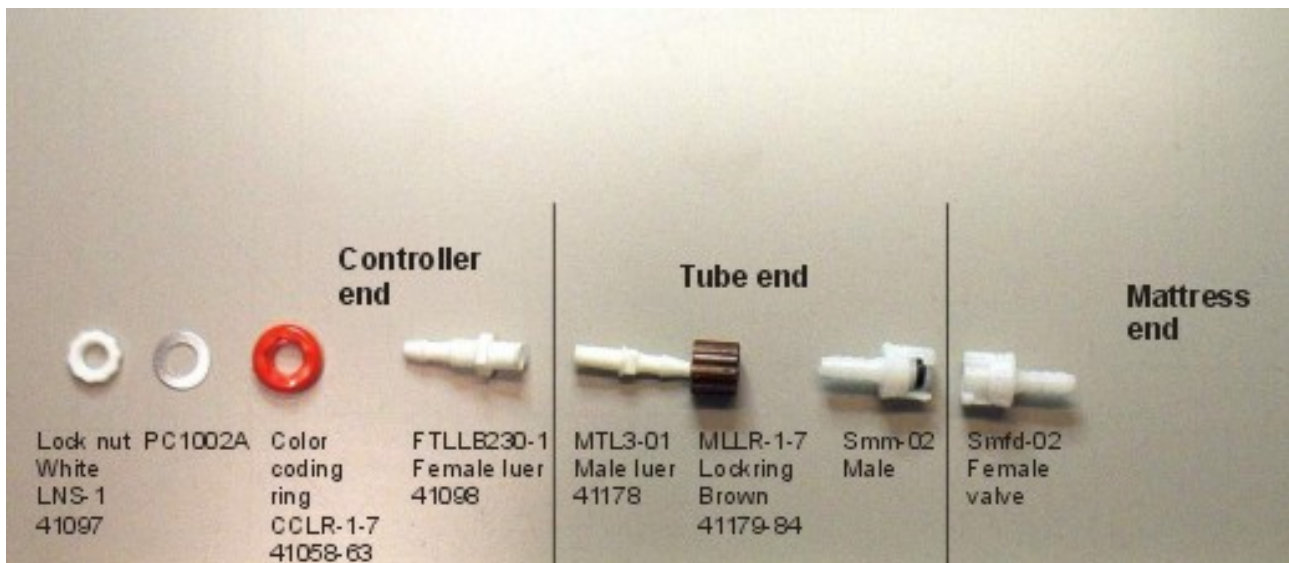
4. Put some glue between the battery and the circuit board and press together.



5. Put some glue on the other side as well and connect the battery wires.

8 Connectors

Spare parts with article numbers

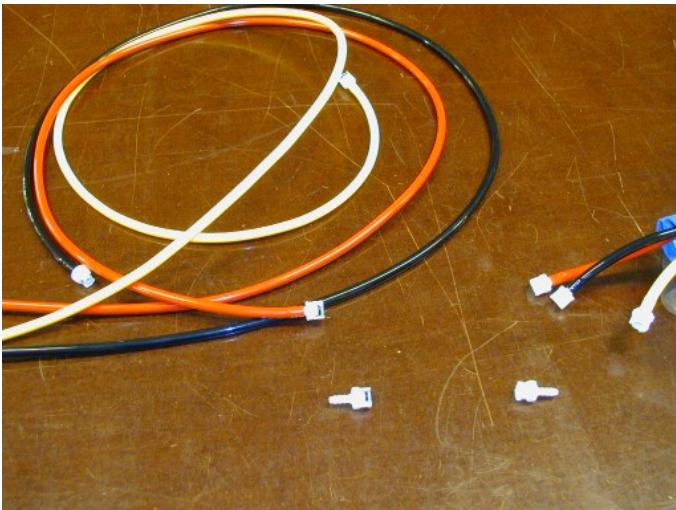




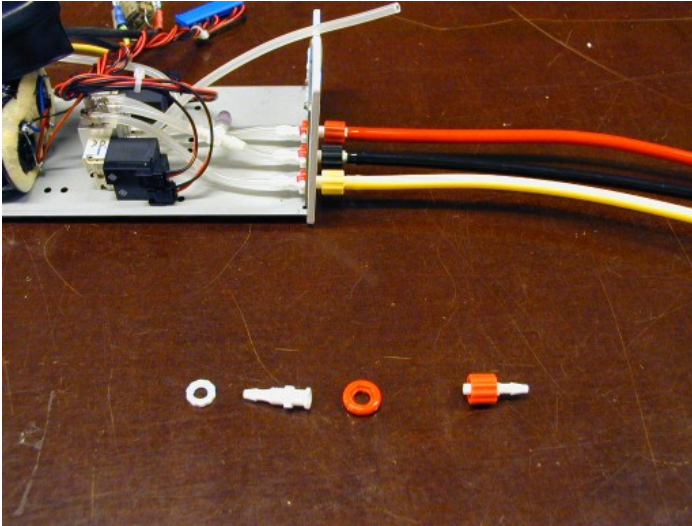
Tube connectors - controller



Older model



Tube connectors – air tubes

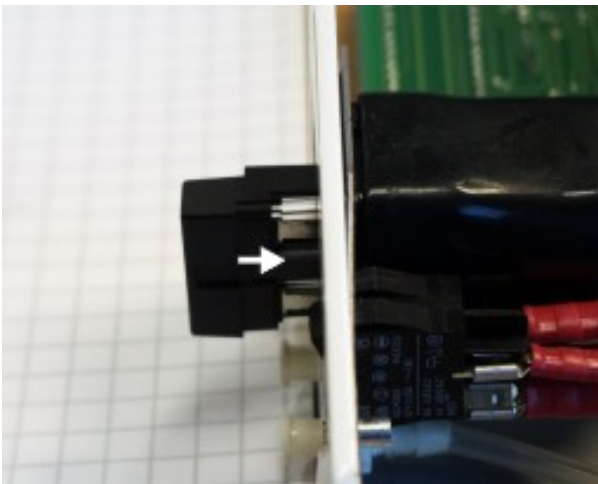
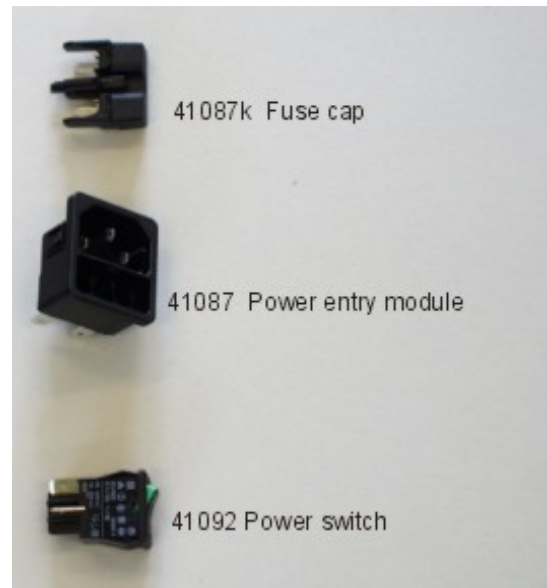


Tube connectors - controller

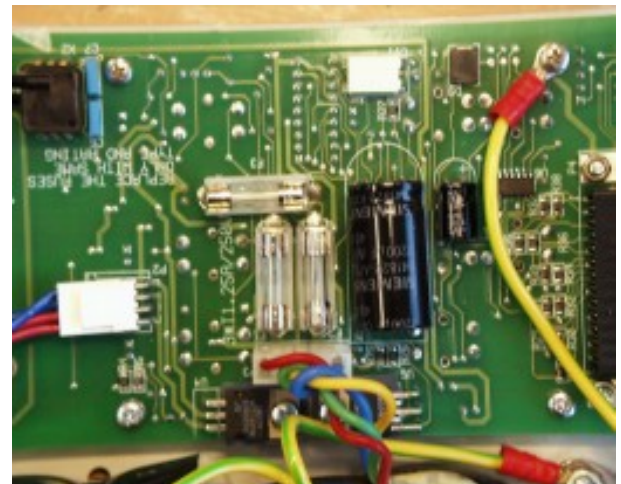


CPR connectors

9 Switches and fuses



Primary fuses



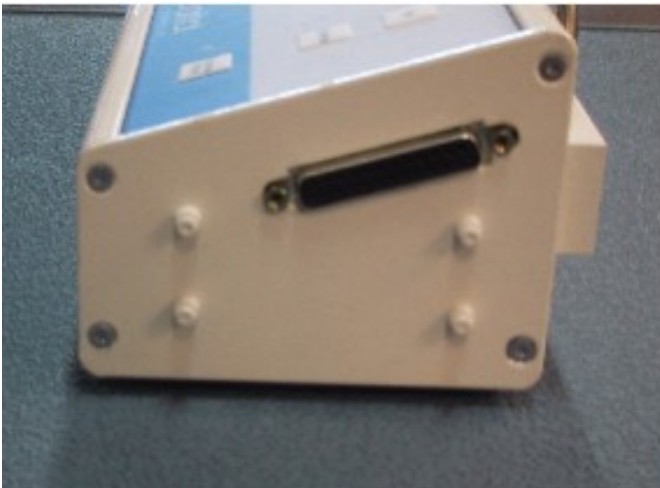
Secondary fuses

10 Bracket

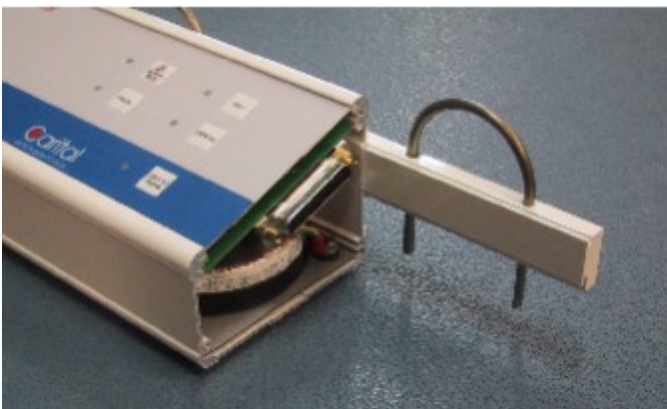
41203 Bracket set



1. The bracket set consists of the bracket and two attachment pieces (right&left).



2. Remove the right hand end plate by opening the four corner screws.



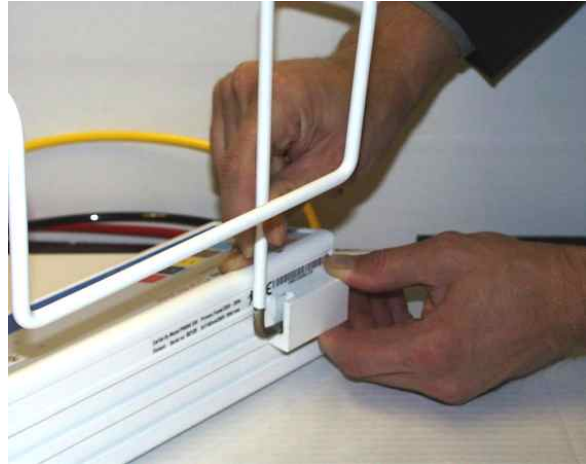
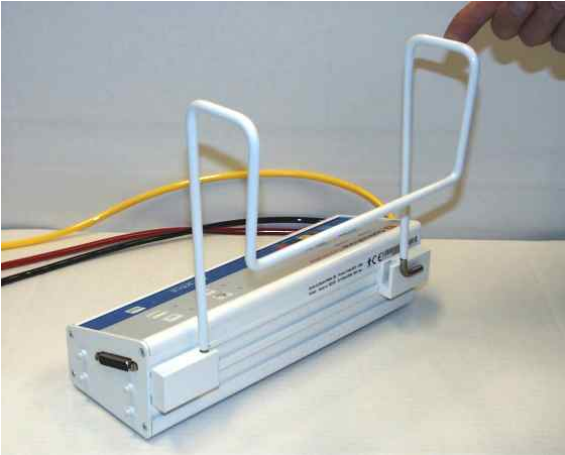
3. Remove the old hook set.



4. Place the attachment pieces in either of the rails.

NOTE! The holes must point inwards.

5. Hammer the pieces with a plastic hammer.



6. Fit the bracket to the holes in the attachment piece.



7. Bracket in correct position.