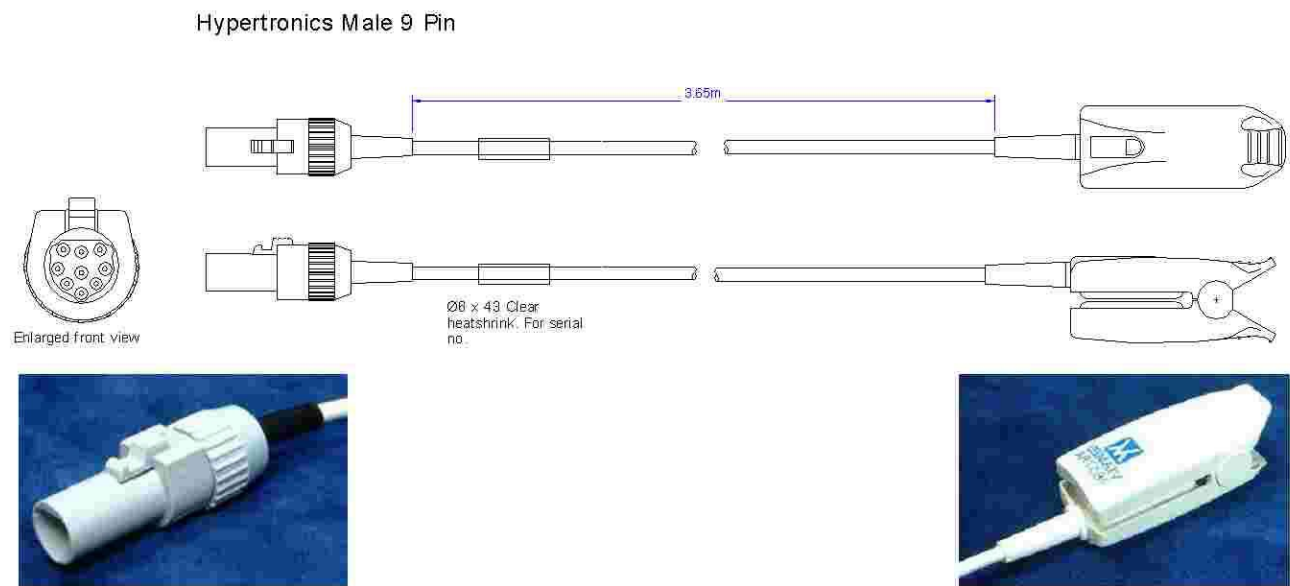


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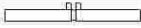
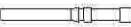
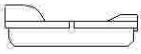

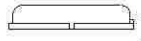



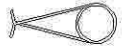


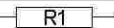


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Equipment required: Soldering iron (0060120), solder (0050012), Wire stripper (0060030), Flush Cutter (0060010), Snipe nose pliers (0060021), ‘helping hand’ (0060145), Heat gun (0060100).

Parts list: Kit and parts required. (Continued over page)


Hypertronics male 9-pin Kit			Finger Probe Side		
Qty		Part No.	Qty	Description	Part No.
1	Hypertronics male 9-pin Kit	0010601	1	 Top Shell (x25)	0010110
(1)	 Pin Housing	kit	2	 Pad Support (white) (x50)	0010160
(9)	 Pins	kit	1	 Top Pad (white)(x25)	0010130
(1)	 Cable grip	kit	1	 Bottom Pad (white)(x25)	0010131
(1)	 Strain relief	kit	1	 Bottom Shell (x25)	0010111
(1)	 Collett	kit	1	 Spring (x25)	0010140
(1)	 Barrel	kit	2	 Button (White) (x50)	0010180
1	 R1 1.33 kΩ Resistor	0032040	1	 Detector	0030901
1	Ø6 x 43mm Clear heat shrink	0032331	1	 LED/ I.R.	0030950

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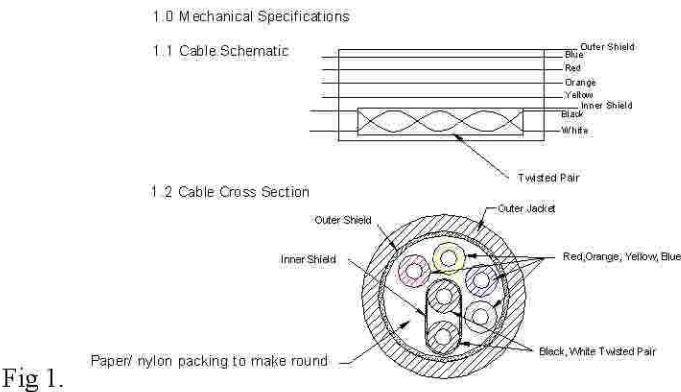
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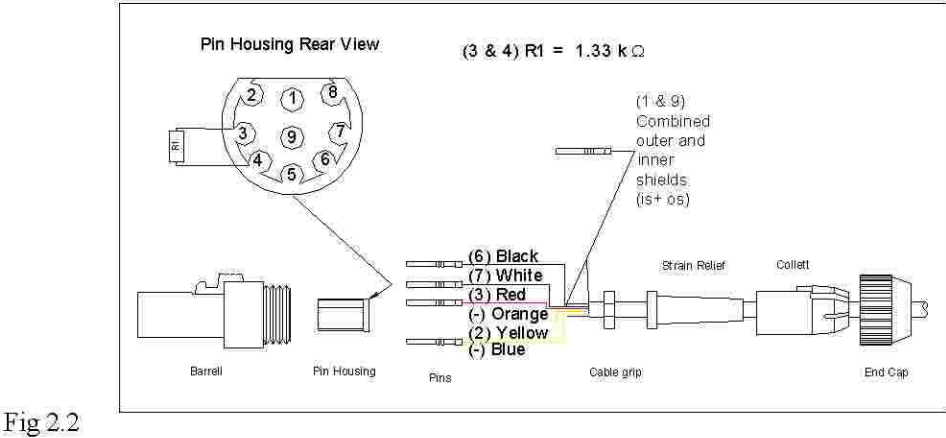
1	Ø6 x 10mm heat shrink	0032321	1		Strain Relief	0010150
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ASSEMBLY OPERATIONS

- 1. Pre Heat soldering iron temperature to 240°c.
- 2. Collect all required parts and equipment listed above.
- 3. Cut a 3.75 metre length of standard 6-core cable. (Details shown below).



Hypertronics male 9 pin side:



- 1. Feed Ø6 x 43mm (clear) heat shrink, end cap, collett, strain relief, Ø6 x 10mm (black) heat shrink and cable grip onto the cable.
- 2. Strip 20mm off outer jacket of wire- to reveal 4 coloured wires, outer shield, and nylon/paper wire packing.
- 3. Cut all packing, orange and blue wire to the base.
- 4. Strip 20mm off inner jacket of wire- to reveal black and white wires and the inner shield.
- 5. Twist outer and inner shields together and trim to approximately 8mm long.
- 6. Strip jacket of every wire 2mm to reveal copper core.

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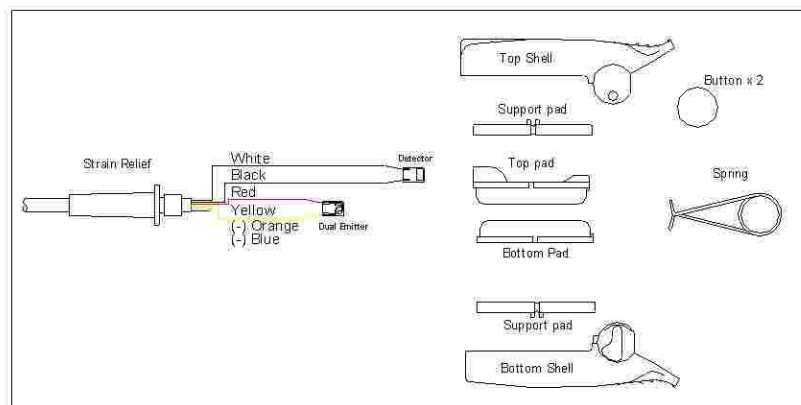
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7. Apply small amount of solder to ends of each wire and shields.
8. Trim one of the legs of the resistor to 4mm and the other to 15mm .
9. Solder each leg of the resistor into the rear of 2 separate pins and push pins firmly into correct locations as shown in fig 2.2.
10. Solder the red wire to the short side of the resistor which is to go into location 3, and remaining 3 wires and shields to the rear of 4 pins and push/pull firmly into correct locations shown in fig 2.2.
11. Clamp cable grip approximately 2mm from outer jacket end.
12. Place Ø6 x 10mm heat shrink over cable grip and beginning of wires and heat to shrink firmly around.
13. Push the strain relief up to the cable grip, collett over the strain relief up to the pin housing, and into the barrel and finally screw end cap onto the barrel.

Finger Probe side:



1. Apply loctite primer to the cable surface, and slide on the strain relief.
2. Apply a small amount of superglue on to the surface of the cable and push the strain relief over the glue to secure in place leaving approximately 80 mm of cable.
3. Strip outer jacket up to the strain relief and cut packing, outer shield, blue and orange wires.
4. Cut red and yellow wires to 15 mm, strip jackets off 2mm and apply a small amount of solder to the ends.
5. Strip 10 mm off inner jacket and cut off inner shield.
6. Strip jackets 2mm and apply small amount of solder.
7. Solder wires to the detector, LED/I.R as shown in fig 2.3
8. Place the assembly on the drying rack, and apply a small amount of clear silicon to the front of the detector and LED/I.R and mount into the pads (Led/IR in the top pad and Detector in the bottom pad) allowing the sensors to be seen and central, and scrape excess silicon. Then place the drying rack in the drying cabinet and leave to dry overnight.
9. Superglue loose cable to the pads and fill the rears with white silicon.
10. Glue pads onto the pad supports (prime first).
11. Place spring around pads and into place.

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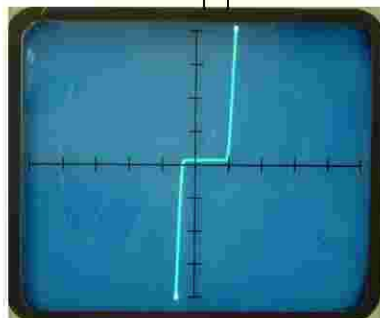
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12. Clip upper and lower shells (use a little super glue) into place and glue buttons onto the sides.

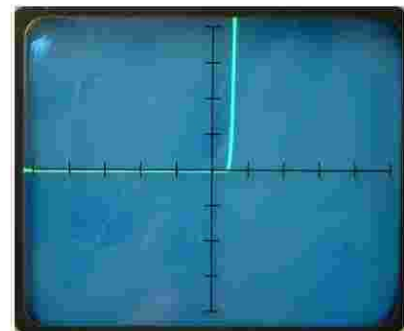
TESTING

1. Attach Hypertronics male 9 pin side to the test box connector marked 'L'.
2. Check display is showing correct characteristics as shown below. (At correct switch positions)

LED should read approx 1.8v



Position 1. IR, LED.



Position 4. Detector

3. If the LED signal is at the bottom then it is wired incorrectly.
4. 'Play' with wire at connections to see if any change in the display (i.e. flickering etc).
5. If there is any movement of signal, the cable must be taken apart and all connections checked and re-soldered. Then tested again until results are satisfactory.
6. Check the cable is of correct quality standard. (See VM/COP/30.11 for details).
7. Attach Hypertronics male 9 pin side to an S100E monitor and the probe on to the DL3000 simulator to check SpO₂ level. (Ideal reading 95-100.)

Labelling

1. Labels: to be attached facing upwards as looking at the top of the probe.
 - 1 x CE Label
 - 1 x Viamed shell label on probe bottom shell.
 - 1 x Serial no. Label
 - 1x Orange 'Do Not Throw Away' Label (correct one of two is dependant of country unit is being sold to).

COMPANY OPERATING PROCEDURES

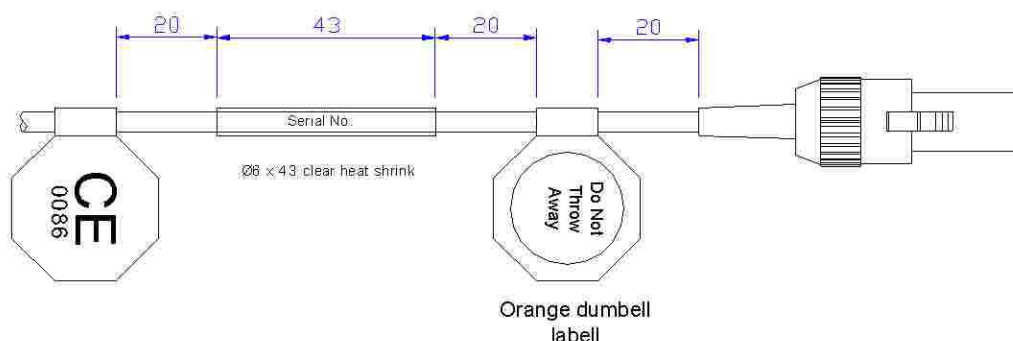
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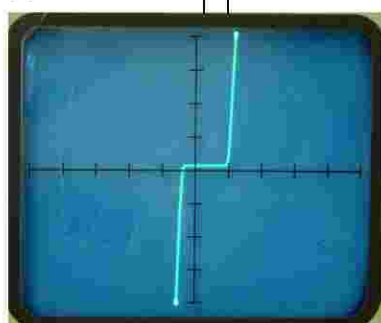
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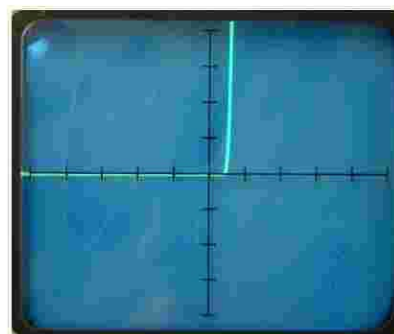
Quality Assurance (QA)

1. Attach Hypertronics male 9 pin side to the test box connector marked 'L'.
2. Check display is showing correct characteristics as shown below. (At correct switch positions)

LED should read approx 1.8v



Position 1, IR, LED.



Position 4, Detector

3. If the LED signal is at the bottom then it is wired incorrectly.
4. 'Play' with wire at connections to see if any change in the display (i.e. flickering etc).
5. If there is any movement of signal, the cable must be taken apart and all connections checked and re-soldered. Then tested again until results are satisfactory.
6. Check the cable is of correct quality standard. (See VM/COP/30.11 for details).
7. Attach Hypertronics male 9 pin side to an S100E monitor and the probe on to the DL3000 simulator to check SpO₂ level. (Ideal reading 95-100.)
8. Fill and sign attached paperwork.
9. Test 10 % of batch on DL3000 simulator.
10. Log all results on compatibility sheet.

Packaging

1. Visually check all labels are attached properly

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- 2. Using a twist tie (bunny clip) wrap the cable and place in a small blue Viamed plastic box, ensuring the cable is inserted in a neat and tidy presentable manor.
- 3. Place a serial number sticker (supplied with the batch) on the front face of the box.
- 4. Place a packed and tested sticker (also containing initials of the individual who is packing) on the right hand side top left corner of the box. Do not close box.

Final QA

- 1. Final inspection. Visually ensure cable sit neatly within the box and is in a presentable state.
- 2. Boxes are ready to stock in stores.