

FRONT OF L.E.D.S

0018720

Datex

P872RA

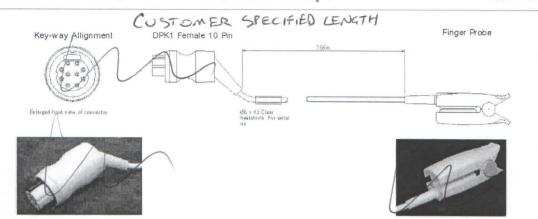
VM3/COP/32.17

Date:

14-Dec-01

Revision date: 17-May-04

Issue: 3



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)

	DPK-1 female 10-pin Side			Finger Probe Side		
	Qty, A Description	Part No.	Qty	Description	Part No.	
				BLACK STRAW RELIEF	0030690	or recovered
	1 DPK Viemale 10-pin kit	0010706	1	Top Shell (x25)	0010110	
	(1) Rubber housing	kit	2	Pad Support (Tan) (x50)	0010165	
/	(1) Eable grip	kit	1	Top Pad (white)(x25)	0010130	
V	Gollar	kit	1	Bottom Pad (white)(x25)	0010131	
	(10) / I ins/ //	kit	1	Bottom Shell (x25)	0010111	
	(1) (-1/1-1/1 Upper casing	kit	1	Spring (x25)	0010140	
	(1) Cable glaing	kit	2	Button (***) (x50)	001018#2	
	Pin Housing	Kit	1	Detector	THE PARTY OF THE P	RECOVERED
	(2) (2) (Sorews)	kit	1	LED/I.R.	400003-/	
1	(1) Lower sasing	kit	1	Strain Relief	0010150	
	(f) Grey Collar	kfd		20 PIN CON	0014495	
	V	Page	1 of 6	12k7 RESISTOR	0032195	- OR RECOVERED

RECOVER CHIP, 12K7 RESISTOR, RED HOUSING +
METAL BODY OF CONNECTOR AND BOTH L.E.A.S

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11	Z / / 20/kΩ/Restistor/	10032090	
141	150 pF Capacitor	0032250	
1	Ø6 x 43mm Clear heat shrink	0032331	
1	Ø1.6 x 20mm heat shrink	0032310	
1	Ø6 x 25mm heat shrink	0032321	

#### ASSEMBLY OPERATIONS

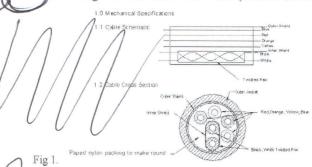
Pre Heat soldering iron temperature to 240°c.

2. Collect all required parts and equipment listed above.

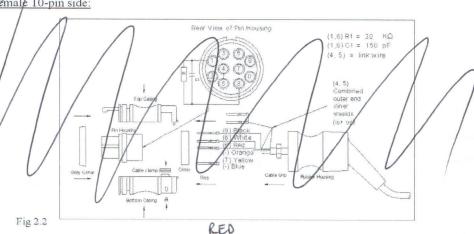
3. Cut a 3.75 metre length of standard 6-core cable. (Details shown below).



REPLACE ,
REAR CONN,
REAR CONN,



DPK-1 female 10-pin side:



1.

Feed Ø6 x 43mm (clear) heat shrink, fullser housing, collar, cable grip and Ø6 x 2 mm (black) heat shrink over the end of the cable. + 00 30690

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STRAIN

RELIEF

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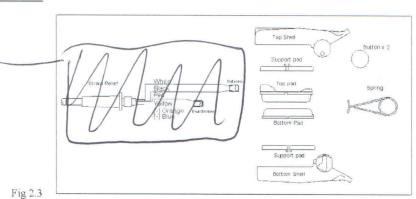
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- Strip 25mm off outer jacket of wire to reveal coloured wires, outer shield, and nylon/paper wire packing.
- 3. Cut all packing, blue and orange wires to the base.
- 4. Strip shim off inner jacket to reveal black and white wires and the inner shield.
- 5. Twist together both inner and outer shields and solder to one pin. Solder a link wire from pin KEEP INJER+ OUTER SHIELDS ABART, WITH HEAT SHRINK
- 6. Trim ends of wires to the same length.
- 7. Strip jacket of every wire 2mm to reveal copper core, and solder all except white wire to the rear of individual pins.
- 8. Cut each leg of the resistor and eapacitor to 15mm each.
- 9. Bend legs of the resistor description to fit onto the rear of two separate pins each in the solder to pins.
- 10. Insert all pins into correct locations except in pin 8 to which the white wire needs to be soldered to the same pin as that of the capacitor and resistor before inserting.
- 11. Insert pin housing into the bottom easing, and screw cable clamp over cable.
- 12.cuf Plan top casing one bottom casing, and probable calls
- 13. Push rubber housing of the land the state of the stat

Finger Probe side:

NETCACE WITH UFD VIEW



- 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.
- 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
- 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



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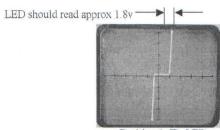
Issue: 3

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.

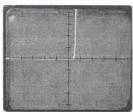
- 9. Superglue loose cable to the pads and fill the rears with white silicon.
- 10. Glue pads onto the pad supports (prime first).
- 11. Place spring around pads and into place.
- 12. Clip upper and lower shells (apply a little super glue) into place and glue caps onto the sides.

#### TESTING

- 1. Attach DPK-1 female 10-pin side to the test box connector marked 'M'.
- Check display is showing correct characteristics as shown below. (At correct switch positions)



Position 1. IR, LED



Position 4. Detector

Alignment

- 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).
- Connect male 9 pin side to the Datex monitor and attach probe on finger to check SpO<sub>2</sub> level. (Ideal reading 95-100.)

#### Labelling

- 1. Labels: to be attached facing upwards as looking at the top of the probe.
  - Lx CE Label
  - 1 x Viamed shell label on probe lower shell.
  - 1 x Serial no. Label
  - Lx Brown Datex dumbbell label.

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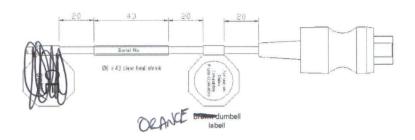
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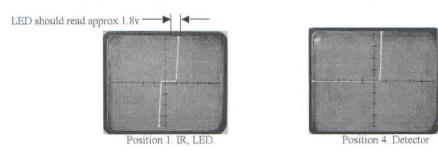
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#### Quality Assurance (QA)

- 1. Attach DPR 1 female 10-pin side to the test box connector marked M.
- 2. Check display is showing correct characteristics as shown below. (At correct switch positions)



- 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. Connect male opin side to the monitor and attach probe on finger to check SpO<sub>2</sub> 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 - REPAIR BOX	
1. Vigually check all labels are attached. Using a twist tie (bunny clip) wasp	ed properly the cable and place in a small blue V <del>iamed pl</del> astic box.
ensuring the cable is inserted in a ne	eat and tidy presentable manor.
	ied with the batch) on the front face of the box
the right hand side top left corner of	Iso containing initials of the individual who is packing) on



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Final QA

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