

COMPANY OPERATING PROCEDURES

SpO₂ Repair Procedures Nellcor

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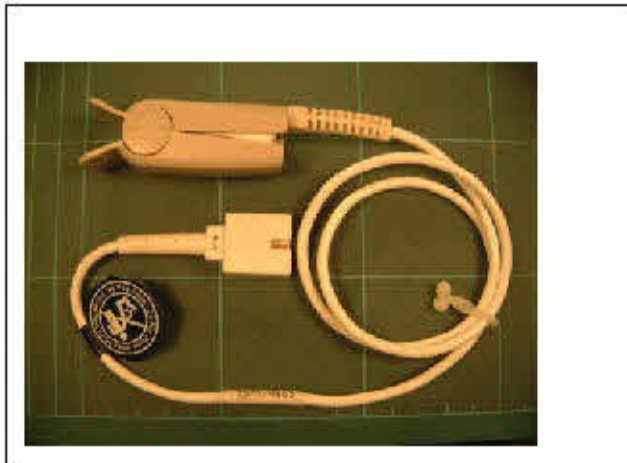


Photo after repair

OEM Part Numbers &/or Names

DS100A

Introduction

Soldering iron set to 250 degrees, to prevent heat damage to components.

- 1) Determine fault - note that in original and Epic equivalent Nellcor probes, the cable must be replaced, due to the inferior quality of the cable used
- 2) Remove pads from shells using small screwdriver. Remove springs. Separate shells. Thoroughly clean all parts that are to be used, with isopropyl alcohol or foam cleaner.
- 3) Cut emitter and detector wires, approximately 1 cm from pad housing
- 4) Remove components from pad housing, using small screwdriver to detach silicone around component - note that this should be done delicately so as not to damage surface of window.
- 5) Clean excess silicone from components, ensuring that the contacts are as clean as possible.
- 6) Desolder old wiring from components.
- 7) Prepare new cable as follows:
 - a. Remove the strain relief supplied attached to cable "0018567," and replace with strain relief "0010401" - note that a small amount cable. of alcohol or silicone should be used to lubricate the cable when pushing the strain relief on to the cable
 - b. Add cable grip to cable, flush to strain relief, and clamp on using relevant tool.
 - c. Cut back shield and paper.
 - d. Strip and tin wires to required lengths
- 8/ Resolder wires to components as per relevant diagram.
- 9/ Replace components into pad housing, taking care to fill pad housing with flowable silicone, as this will remove any irregularities within pad window. Leave for 24 hours to dry.
- 10/ Reassemble the clip as follows:
 - a/ Refit original springs around pads.

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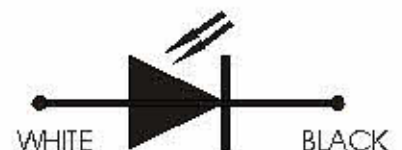
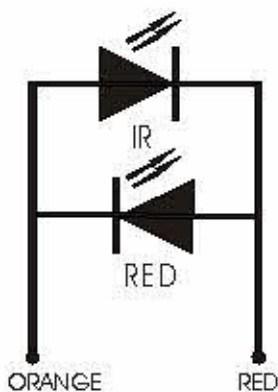
b/ Apply a drop of superglue on front clip pad retaining lugs - this will reduce the risk of pad popping out of shell housing.

c/ Push pads into position within clip, making sure that the metal pad rim is securely underneath the pad retaining lugs - there are four retaining lugs for each pad.

11/ Attach labels to probe as required

Nos	Viamed Part number	Description
1	0010401	Strain relief - compatible with Nellcor SpO ₂ finger clip
1	0010500	Cable clamp

Nellcor clip



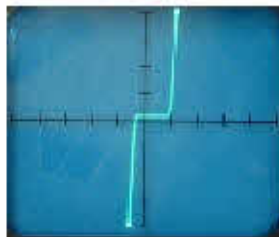
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Test using component tester and test box:

Position 1: Red & IR emitters



Position 3: Photo-diode

