

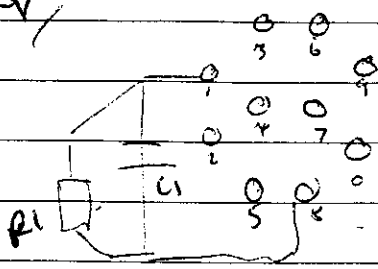
DOLPHIN 2000

2412

Data ext. cable

MFG

RV



1, RI + CI

6, RED

2, -

7, YELLOW

3, -

8, RI + CI + WHITE

4, GREEN

9, BLACK

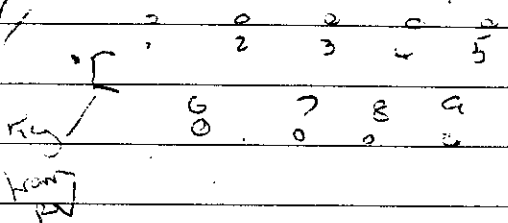
5, MS + IS + BLUE

0, -

RI = 20.02 KΩ

CI =

RV



1, BLUE

6, GREEN

2, -

7, RED

3, YELLOW

8, MS + IS

4, -

9, BLACK

5, - WHITE

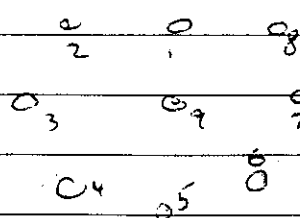
DOLPHIN 2000

2412

CHMCPA

EXT. CABLE

RV



1, RED

6, -

2, YELLOW

7, MS + IS

3, -

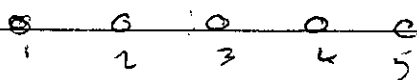
8, WHITE

4, ORANGE

9, BLACK

5, GREEN

RV



1, RED

6, -

2, YELLOW

7, - Shielding

3, -

8, WHITE

4, ORANGE

9, Black

5, GREEN

Key

WHY ENVITEC ARE PANTS

- 1/ Cable is of lower quality. Outer wall is thin
- 2/ Cable runs under LED 'H' which suggests a lack of probe construction ~~the~~ ability.

3/ Component windows are not 100%.

4/ SR can become unglued easily

5/ The Nellcor equivalent's connector uses low quality pins and overly hard plastic connector which leads to a stress point at the cable entry.

6/ Low spring quality.

7/ The 'H' has a mounting block which the component sits on.

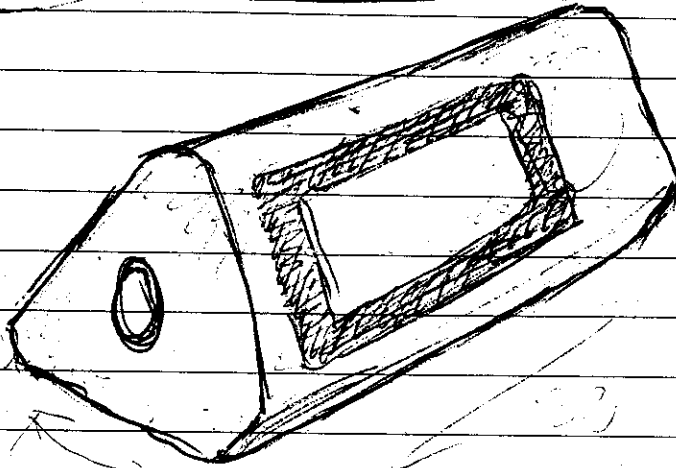
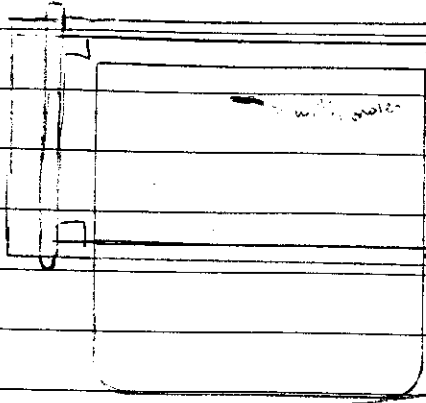
This presumes the components are all of the same shape and size. Also this makes the emitter pad have a central hard point.

8/ Nellcor equivalent code resistor only rated to 5% tolerance.

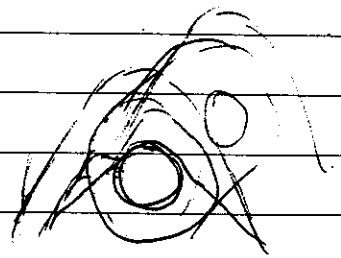
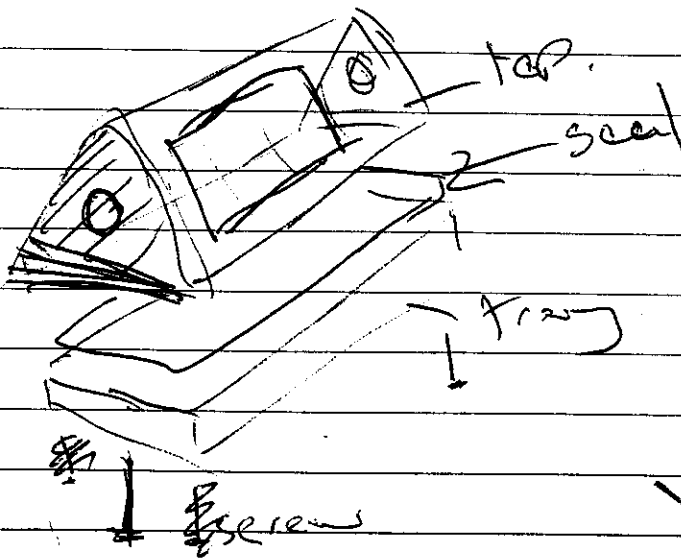
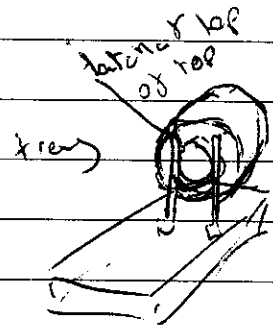
9/ No marking for which way up the finger should be in the clip.

10/ Solder used on crimp pins.

11/ Solder used ~~the~~ very close to resistor



problem with screen
mount.



must be sure to be able to remove the cell
without removing the screen.

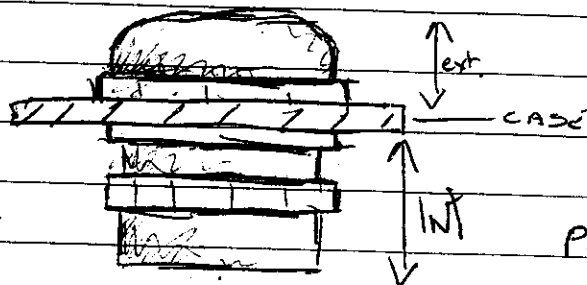
~~PHOENIX~~

PHOENIX MECANO

Phone - 01296 39 88 55

Fax - 01296 39 88 66

MSBF



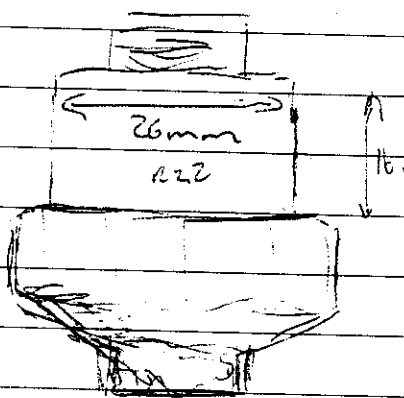
Part No - MSBF 40

order - 13002600

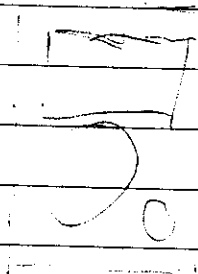
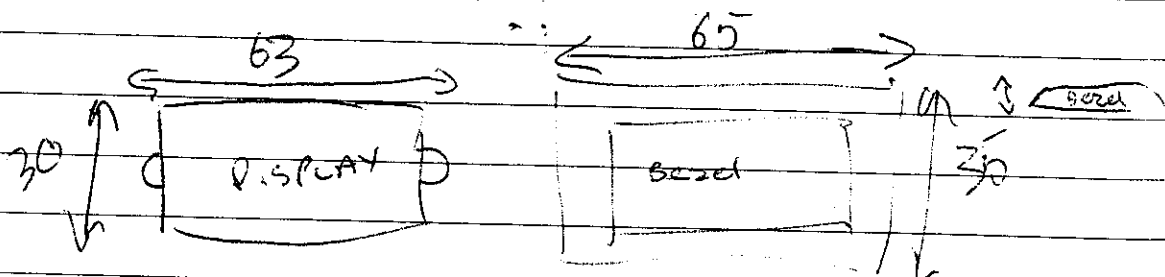
+ MGRS 40 - 13160600

+ MDR 40 - 52050100

R24



22 gromets
in the
of the machine



AGPH 800-0100 84080100

case - ~~ABP 800-0100~~ 84080100

order - 84080100

id - ABP 800

order - 84081000

sec - DI 800-EMV

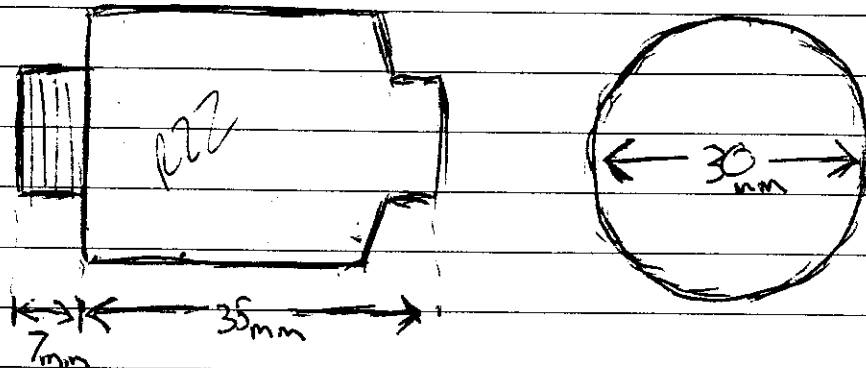
order - 84200815

WATER PROOF MONITOR

- 1 x AVM display
- 1 x R22
- 1 x Cal pot

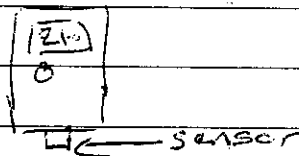
Cal pot must be flush to case

Monitor must be as small as possible even at the expense of the bezel. ~~For~~
Case ~~must~~ ^{must} look v. fleshy.

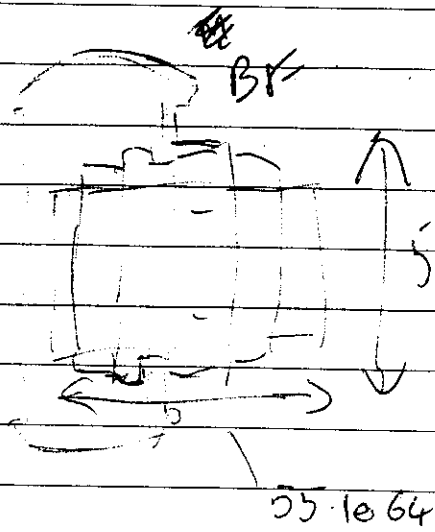


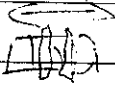
This monitor is for the top of an oxygen tank and should look like it

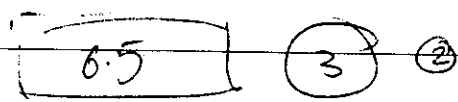
The oxygen sensor should ~~not~~ stick out of the bottom of the case



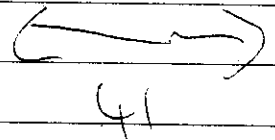
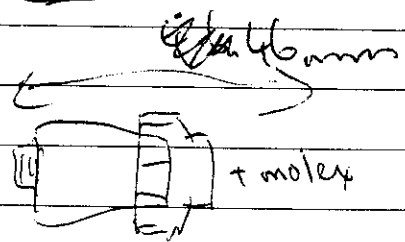
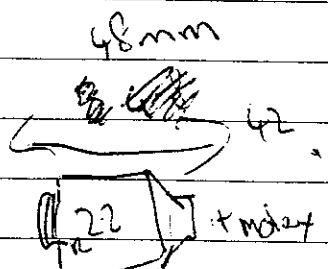
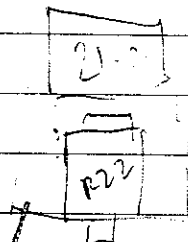
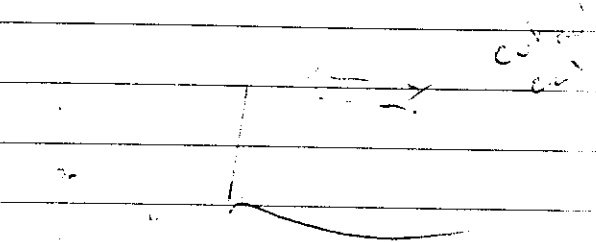
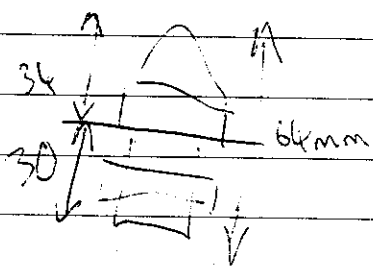
Case is IP65
Cell holder is IP68



MSBF 
for 36.5 to 43.6mm
mt 23.2 - 16.6

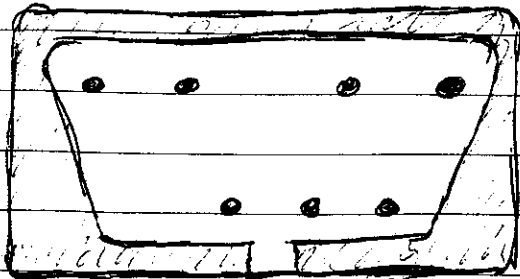


V.232 front
1.232

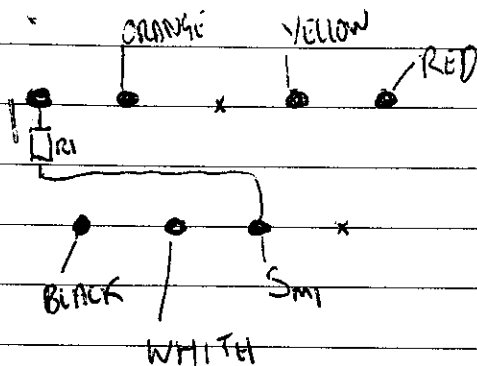


DOLPHIN 2000 DISPOSABLE FLEXI

CONN, FV

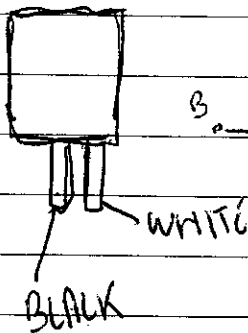


CONN RV

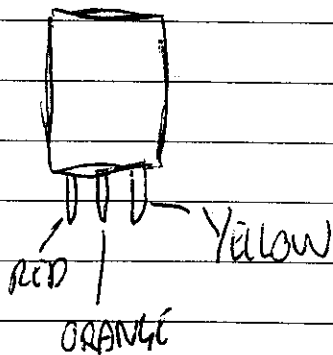


PHOTODIODE

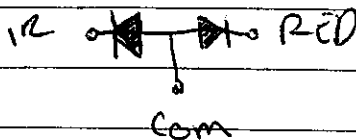
RV



RV

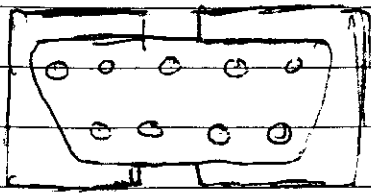


NB. SENSOR IS CONTAINED IN
COPPER MESH WHICH CONNECTED
TO INNER SHIELD.



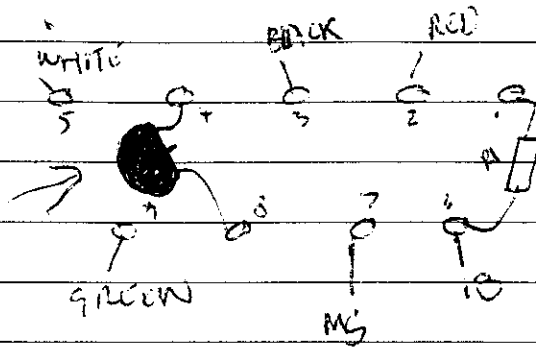
NEW STYLE NEUCOR - APPLE CONN.

CONN AF



NB. 2 KEYS
ALL PINS PRESENT

CONN RV

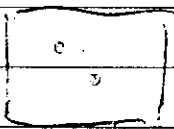


R1-7500SL 1%

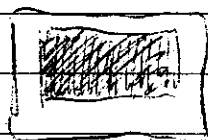
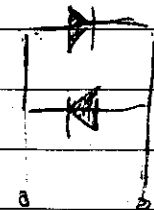
DS2503
9931A1
077AA

PIN 4
PIN 8

AV



RED BLACK



WHITE GREEN

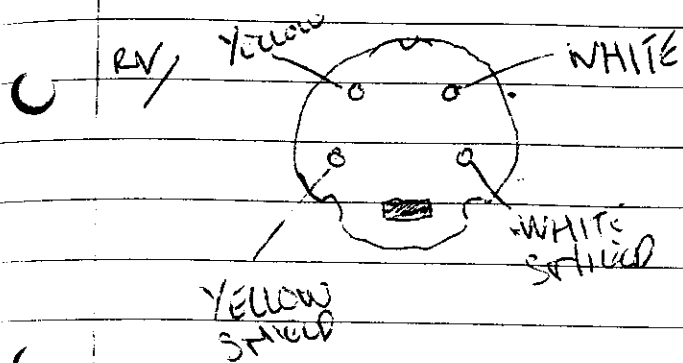


NB - COMPONENTS ARE THE SAME
AS ORIGINAL NEUCOR AS PER
SPECTROMETER.

S-VHS CABLES

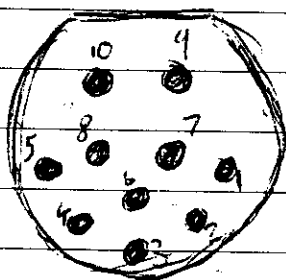
VDC 268-322 LC-BFC HIGH DEFINITION TWIN 75 OHM
S-VIDEO MULTICORE

+ GOLD CONNECTORS S-VHS



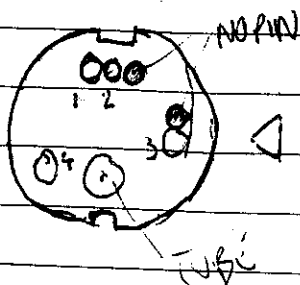
VI990-SPECTRAMEX Pressure Transducer cable

RV

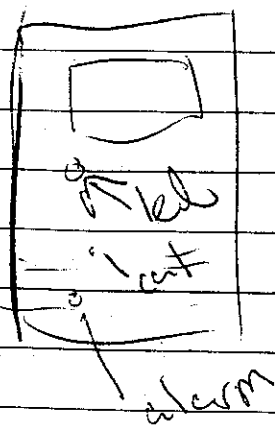
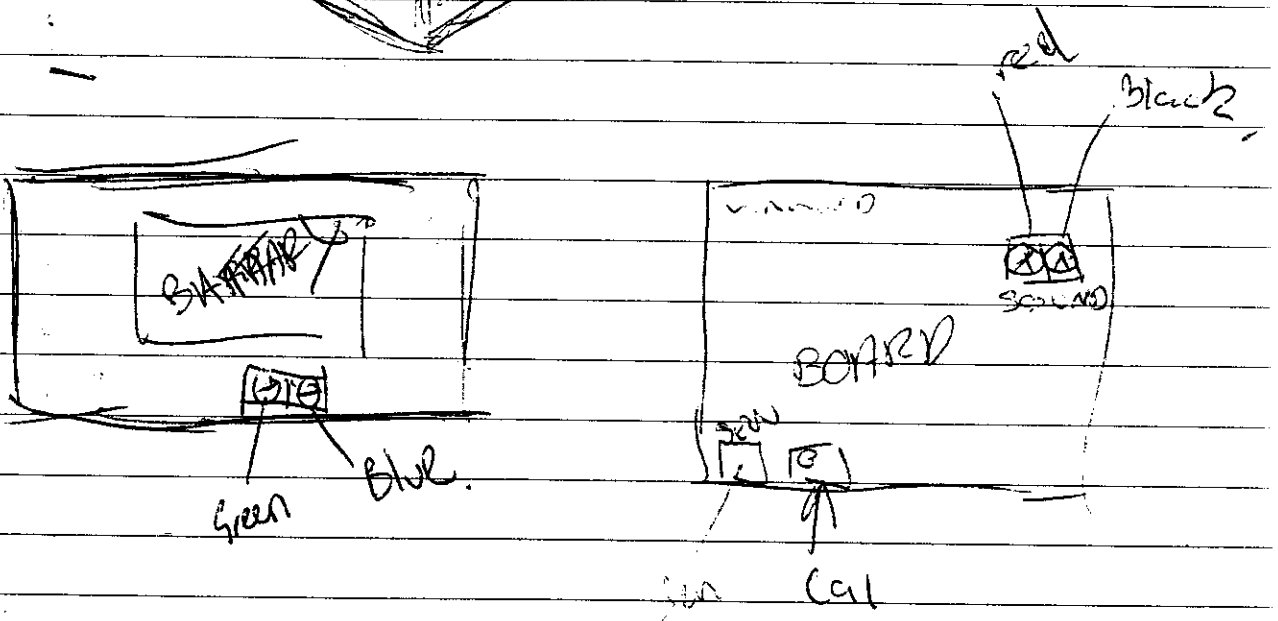
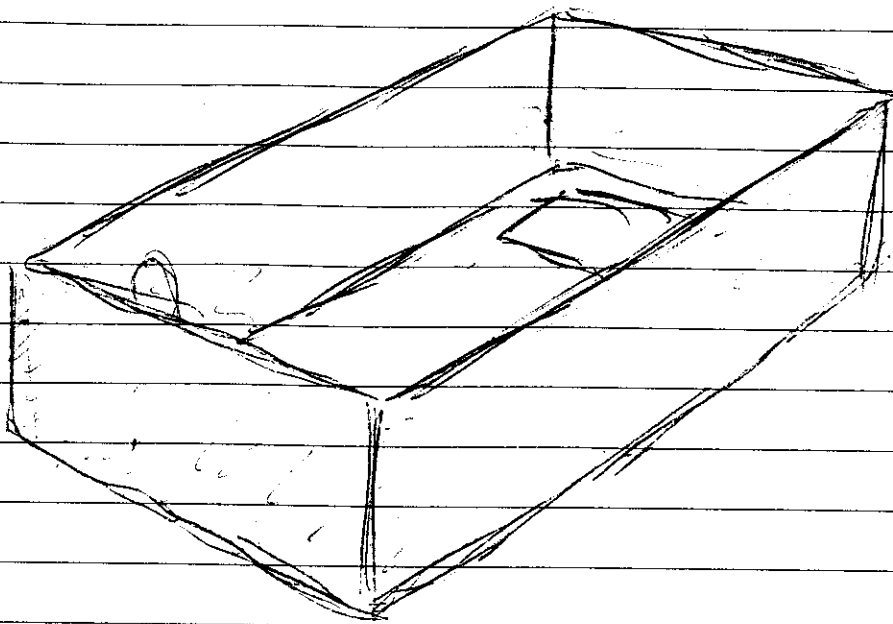


- 1, -
- 2, LINK
- 3, LINK
- 4, -
- 5, LINK
- 6, SHIELDS
- 7, RED
- 8, GREEN
- 9, WHITE
- 10, LINK + BLACK

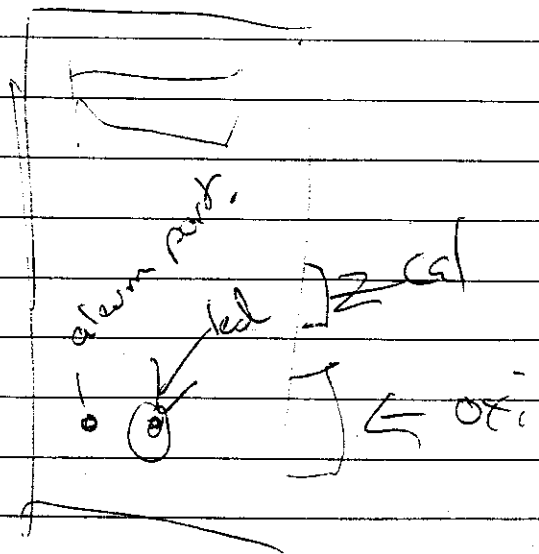
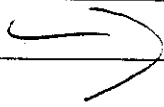
RV



- 1, BLACK
- 2, GREEN
- 3, RED
- 4, WHITE

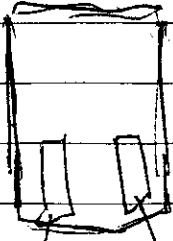


remake.



HP SHORT FINGER PROBE

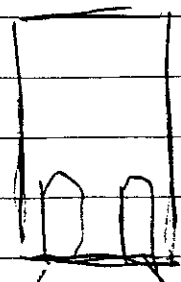
LED
RV



RED

CLEAR

SiN
RV

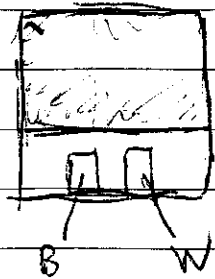


clear

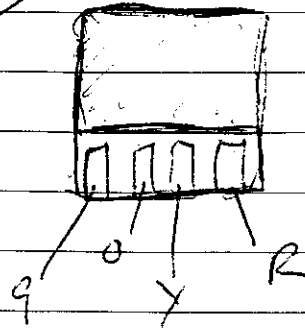
blue

BETA BIOMED DATASCOPE 8 PIN DIN

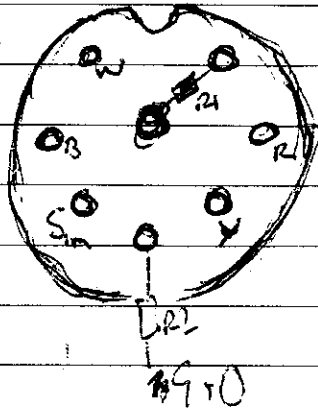
SEN RV



LED RV



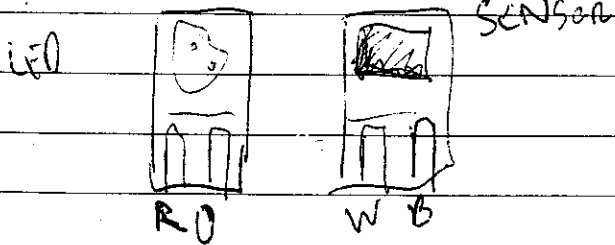
CONN RV



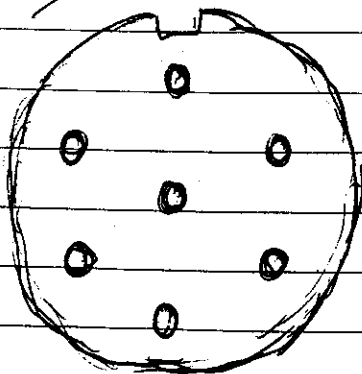
$$R1 = 47K\Omega$$

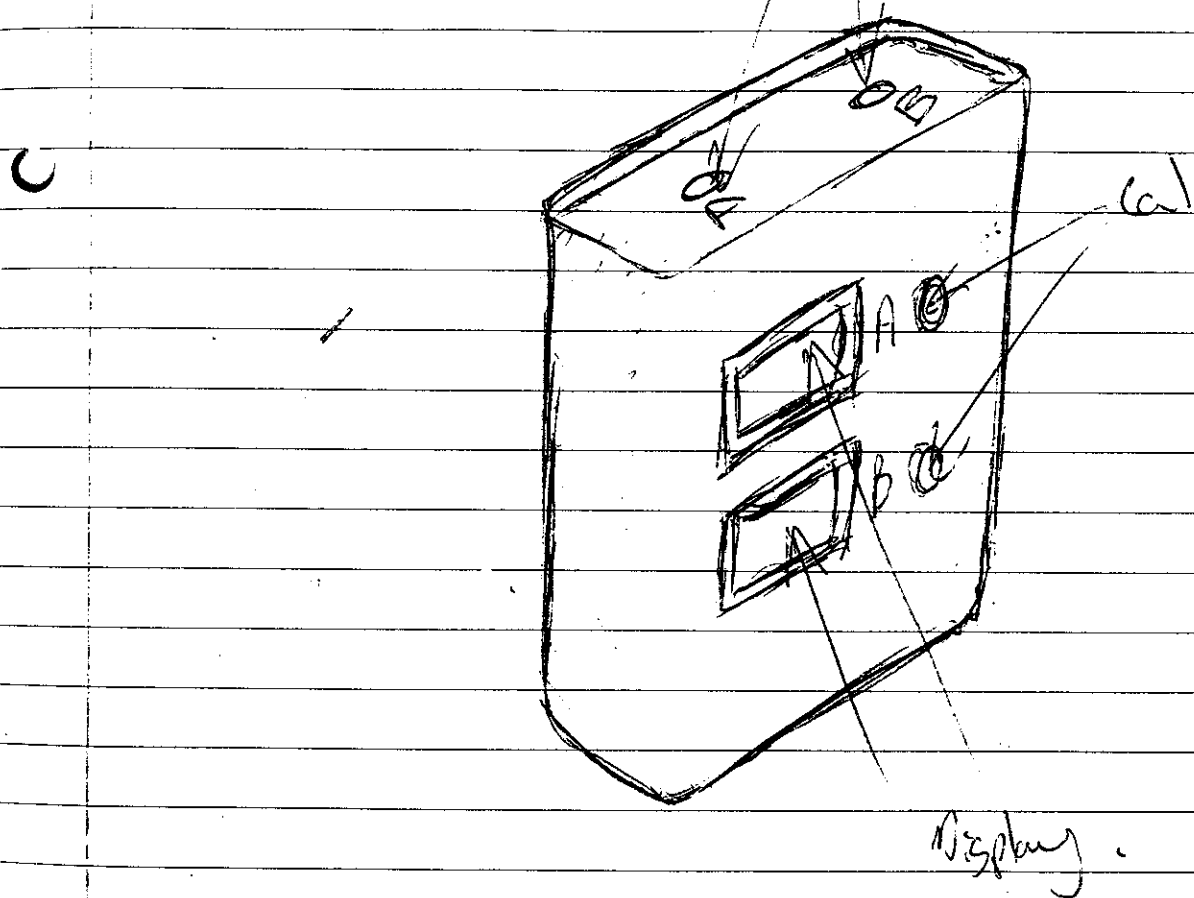
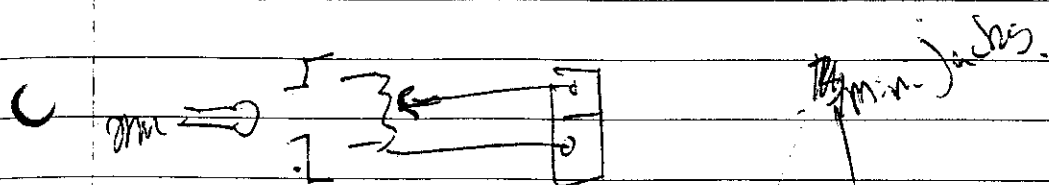
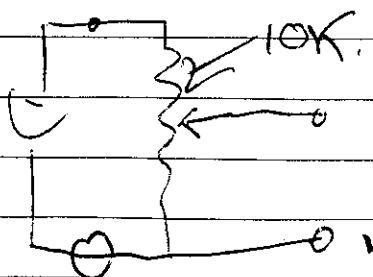
$$R2 = 22\Omega$$

BCI Lemo (VIA MED)



CONN RV (ONE KEY REPEL)





NEW TEST BOX FOR REPAIR AND PRODUCTION

22800

1. CONNECTORS NEEDED

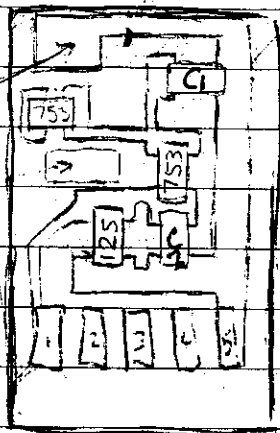
✓	✓	NELCOR BCI NONIN	9 DB
✓	✓	OHMEDA	9 HYPERTRONICS
✓	✓	S+W x2 (Nellcor/Ohmeda)	
✓	✓	DATEX	
✓	✓	DATEX SHORT	9 DB
✓	✓	NOVAMETRIX	7 HYPERTRONICS
✓	✓	CSI	5 Lemo
✓	✓	CSI SHORT	9 DB
✓	✓	DATASCOPE	8 DIN
✓	✓	DATASCOPE SHORT	9 DB
✓	✓	SPACE LABS x2 (Nellcor/Ohmeda)	12 HYPERTRONICS
?		PACETECH	MINI SLR
		PACETECH SHORT. (same as Nellcor)	9 DB
✓	✓	SIMED BAXTER	9 HYPERTRONICS
✓	✓	SENSOR MEDICS	COMPU SHIELD
✓	✓	INVIVO	7 Lemo
✓	✓	KONTRON	
✓	✓	CRITIKON LEMO	7 Lemo
✓	✓	" THORCOM	12 Thorcom
✓	✓	" 9 Pin DB	9 DB
?	✓	HP	
✓		MINOLTA	
✓		PALCO	RJ11 x6
?		VITALOS	RJ45 RJ11 BNC
✓		FUKUDA DENSHI	
✓		COMDEX	7 REDEL
?		LOHMEIER	
✓		PHYSIO CONTROL (Bt like Simed)	9 HYPERTRONICS
?		SABA / MINIOX	7 Lemo
?		NIHON KODEN	
✓		INVIVO HYPERTRONICS	7 HYPERTRONICS

PHYSIO CONTROL VETERINARY ECG CABLE

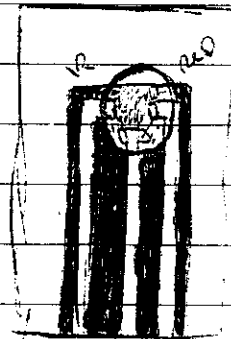
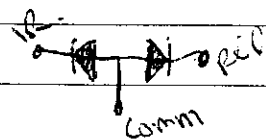
LL - ~~Teal~~ Green
 LA - Yellow
 RA - Red

VITALOS X Probe cable length 3m

LED RV



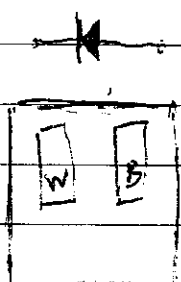
FV



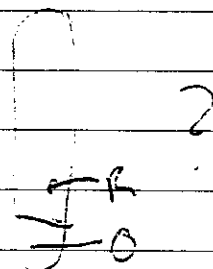
C1 = 0.6 uF
 C2 = 0.071 uF

753 = 75000Ω - 75KΩ
 125 = 1200000Ω - 1.2MΩ

SEU RV

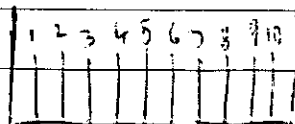


board with 753

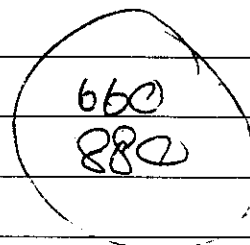


CONN

TOP VIEW RINGS UP



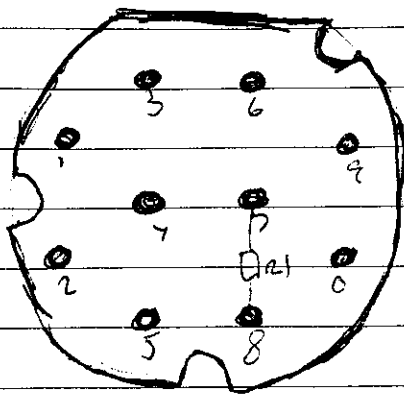
- 1 LINK → 10
- 2 MS
- 3 BLUE
- 4 YELLOW
- 5 ORANGE
- 6 RED
- 7 IS
- 8 WHITE
- 9 BLACK
- 10 LINK → 1



NB The LED board may not be populated on some probes.

OHMEDA S+W OR TIP EXT. CABLE

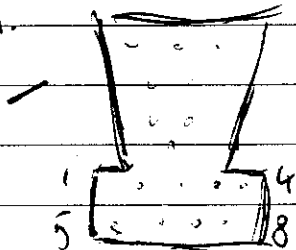
RN



- 1, Orange
- 2, Green
- 3, -
- 4, Red
- 5, Blue
- 6, -
- 7, R1
- 8, R1 + Yellow
- 9, Shield (only shields black)
- 10, Black

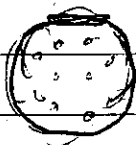
R1 = 100K Ω 1%

Makes down.

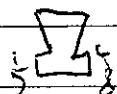


- 1, Red
- 2, -
- 3, Yellow
- 4, Black
- 5, Green
- 6, Orange
- 7, Blue
- 8, Shield

MCI CABLE



- 1, Orange
- 2, Yellow
- 3, -
- 4, Red
- 5, Blue
- 6, -
- 7, R1
- 8, R1 + MS
- 9, ~~MS~~ IS
- 10, Black

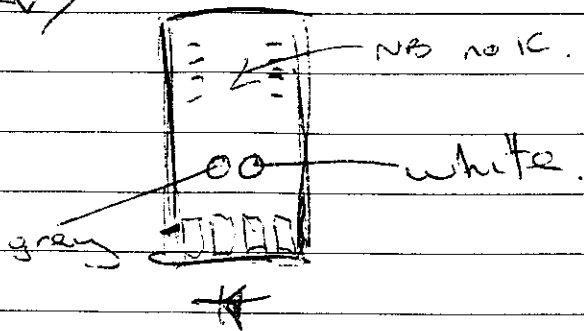


- 1, Red
- 2, -
- 3, MS
- 4, Black
- 5, ~~Green~~ Yellow
- 6, Orange
- 7, Blue
- 8, IS

FUKUDA DENSHI short probe TS-25

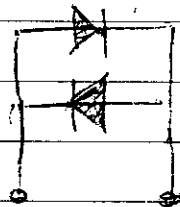
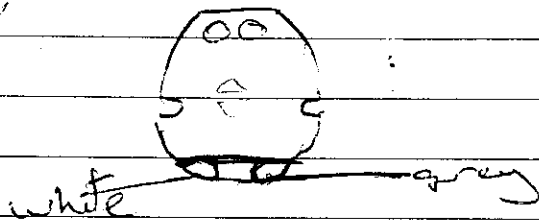
NB probe is very similar to minolta.

Son RV

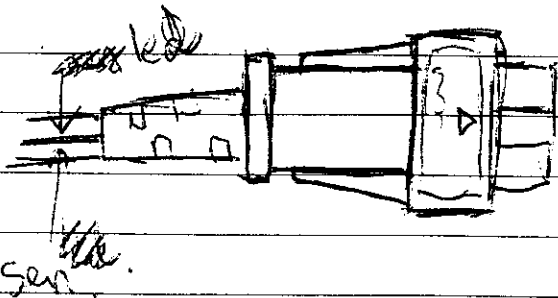


Sensor has red filter

LED RV

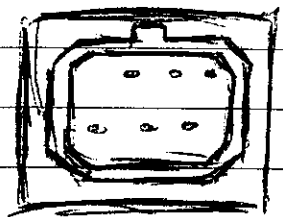


TV Conn



connector marking
12358e
Japan

AV



Sensor wire is shielded.

RV

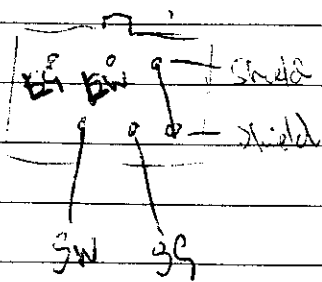
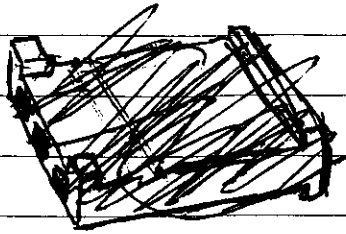
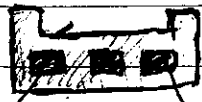


photo 1 parts



AV



Black

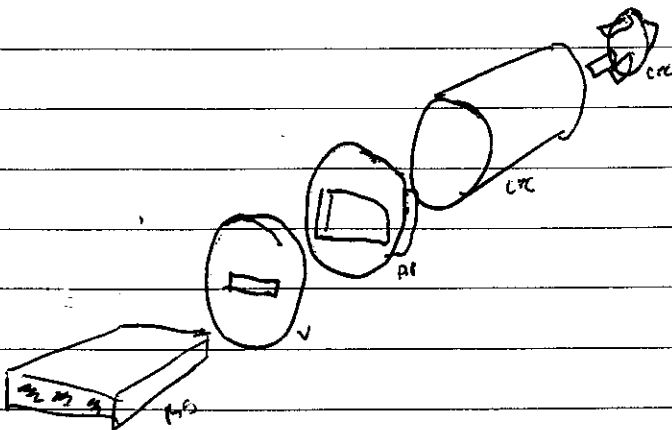
red

Side view



edge
(black)

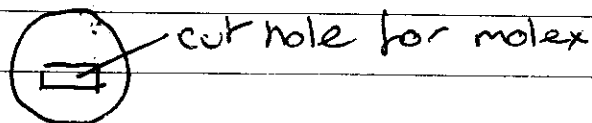
center
(red)



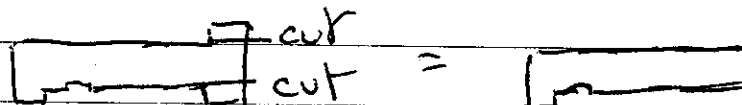
R22 → R17 converter.

PARTS, 6.4mm female Jack housing - ~~RS~~ CPC
Black collet - AP Valves.
Molex 3 way conn. - RS.
Molex Pins. - RS.
Blue probe side tab - Viamed.
3.5 mm panel mount threaded female Jack - ~~RS~~ CPC

Preparation of parts,
Bottom,



Molex,
Side view



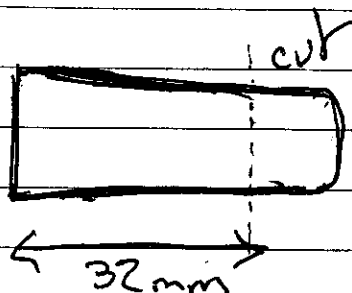
RS part No. = 532-333

3.5 socket,

pin part No. = 532-456



6.4mm housing,



← room to fit 3.5 socket.

T1, WHITE

B1, GREEN

T2, IS

B2, MS

T3,

B3,

T4,

B4,

T5,

B5,

T6, BLUE

B6, ORANGE

T7, RED

B7, BLACK

NB. FERRITE IS 8cm from con.

9 PIN DB END. FEMALE RV,

1 2 3 4 5
6 7 8 9

1, ORANGE

7, MS

2, RED

8, -

3, BLACK

9, GREEN

4, -

5, WHITE

6 BLUE

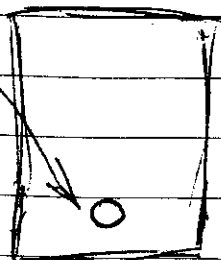
NB INNER SHIELD IS NOT CONNECTED

AT THIS END.

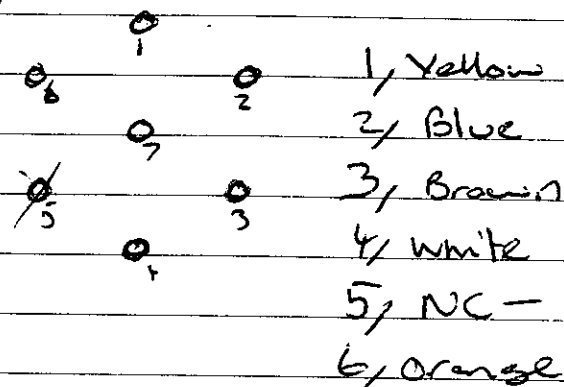
NB. CABLE LENGTH IS 3.2M

COMDEX MONITOR MODEL NO: MD-600P

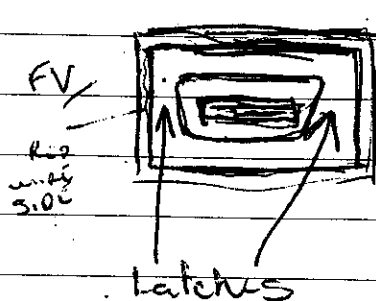
OPEN the battery compartment and remove screen cover



Female conn. Pin



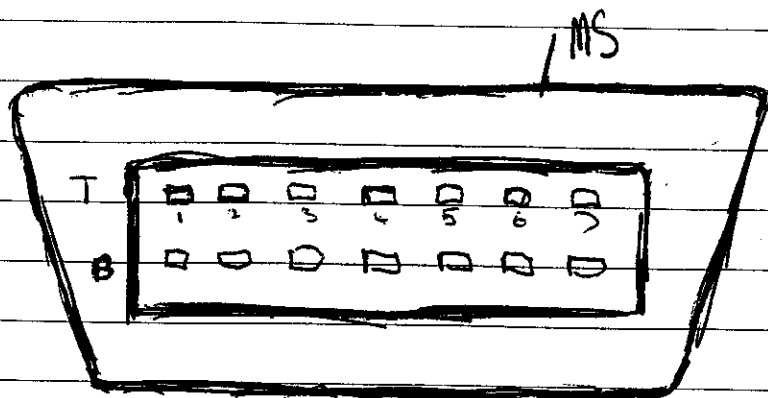
EXT. CABLE FOR EDENTEL monitor. REF SCP-10



Hand strip side.
Metal surround connects to the main shield.

Connector is 3M 10114
Reorder RS 299-4604

RV



PTC

EXPECTED COMDER FINGER PROBE

660nm (red)

905nm (IR)

MEASURED

650nm (red)

720nm (IR)

SCI MCI

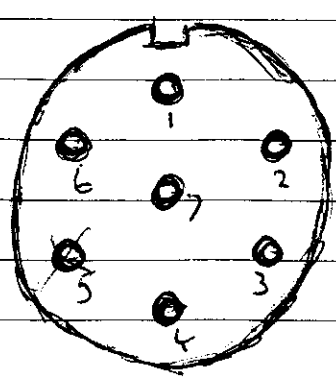
260

715

SCI

661

912



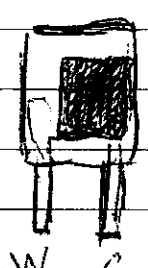
RV MALE (REDEL)

- 1, WHITE
- 2, SHIELDS
- 3, BLACK
- 4, RED
- 5, -
- 6, GREEN
- 7, SHIELDS

CABLE LENGTH = 1.8m



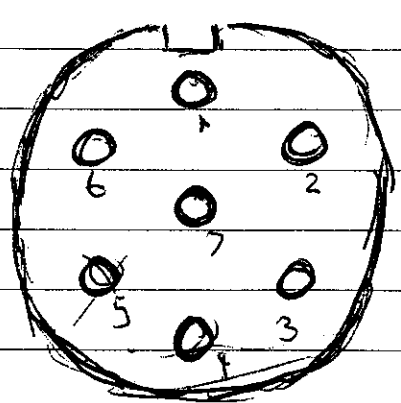
B R



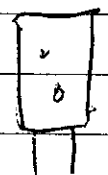
W G



COMDER MCI WIRE



- 1, WHITE
- 2, SHIELDS
- 3, YELLOW
- 4, RED
- 5, -
- 6, BLACK
- 7, SHIELDS



Y R



W B

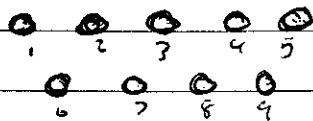
NUCCOR EXT. CABLE

RV/
male



- | | |
|----------|-------------|
| 1, MS | [7, LINK] |
| 2, WHITE | [8, LINK] |
| 3, NC | 9, IS |
| 4, BLACK | 10, NC |
| 5, RED | 11, GREY |
| 6, BLUE | |

RV/
female



- | | |
|-----------|----------|
| 1, BLUE | 7, MS |
| 2, RED | 8, GREEN |
| 3, BLACK | 9, IS |
| 4, YELLOW | 10 |
| 5, WHITE | |
| 6, GREY | |

VIAMED CABLE

MALE CONN,

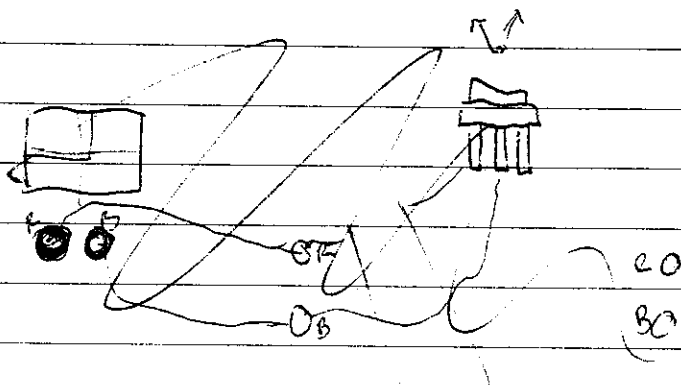
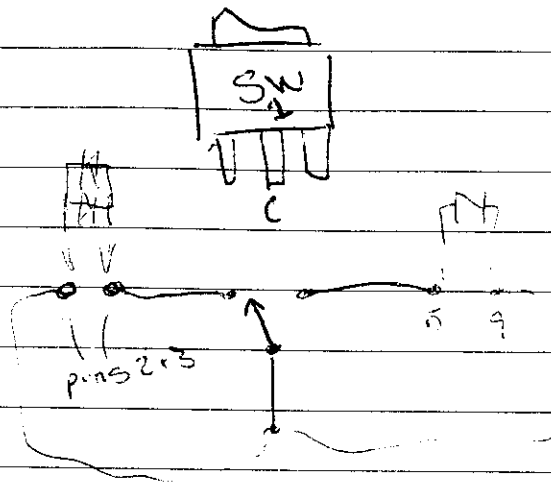
- | | |
|-----------|---------------|
| 1, MS | [7, LINK] |
| 2, WHITE | [8, LINK] |
| 3, NC | 9, IS + BLACK |
| 4, RED | 10, NC |
| 5, ORANGE | 11, YELLOW |
| 6, BLUE | |

DB9 FEMALE

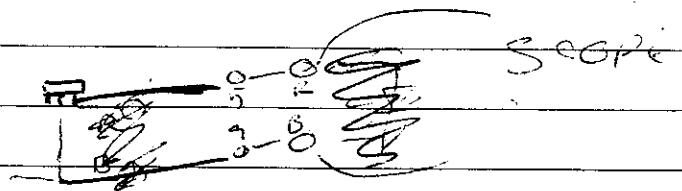
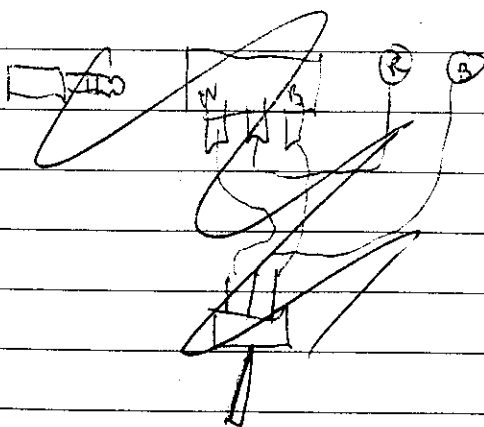
- | | |
|-----------|---------------|
| 1, BLUE | 7, MS |
| 2, ORANGE | 8, - NC |
| 3, RED | 9, IS + BLACK |
| 4, - NC | |
| 5, WHITE | |
| 6, YELLOW | |

BASIC TESTER FOR NEUCAR PROBE.

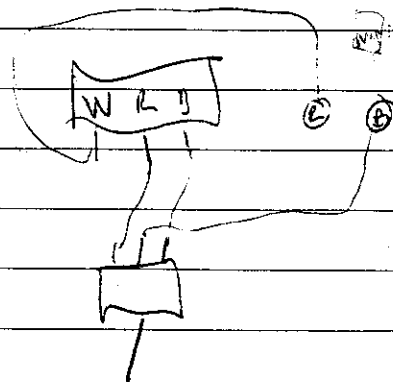
This mini test box is to be used with a scope to get the component 'kicks'.



TEST FOR RUMP PROBE



BLACK BK TIP
RED 30X RING,
WHITE COM. BIRD



PART NO.	DESCRIPTION	TYPE	SUPPLIER
----------	-------------	------	----------

245-0491	Flush cutter	TOOL	RS
----------	--------------	------	----

TL01335	6" Combination pliers	"	CPC
---------	-----------------------	---	-----

660-090	small snipe nose pliers	"	RS
---------	-------------------------	---	----

660-163	needle nose pliers	"	RS
---------	--------------------	---	----

TL00142	Solder Aid set	"	CPC
---------	----------------	---	-----

684-591	Heat gun	"	RS
---------	----------	---	----

544-544	Cable stripper	"	RS
---------	----------------	---	----

211-4656	Capacitor	Component	RS
----------	-----------	-----------	----

569-341	Exams cleaner	Component	RS
---------	---------------	----------------------	----

738-670	Desk mat	Mat	RS
---------	----------	-----	----

3AE100-20	Epoxy glue	Glue	CPC
-----------	------------	------	-----

SA2402	UAC glue	"	"
--------	----------	---	---

298-359	Lectric 770 paint	"	RS
---------	-------------------	---	----

101-713	Silicone 314C	Silicone	"
---------	---------------	----------	---

W311-1000	Super separator	Solder	CPC
----------------------	-----------------	--------	-----

ISOPROPANOL	ISOPROPANOL	CLEANING	MOSS
-------------	-------------	----------	------

518-979	Solder Sponges	Solder	RS
---------	----------------	--------	----

SpO₂ REPAIR PARTS LIST.

PART NO.	DESCRIPTION	TYPE	SUPPLIER
----------	-------------	------	----------

497-375	Squeeze dispenser 402	TOOL	RS
---------	-----------------------	------	----

192-1469	Foam cleaner	"	RS
---------------------	-------------------------	--------------	---------------

666-852	1.6mm heatshrink	HEAT	RS
---------	------------------	------	----

666-874	3.2mm heat shrink	"	RS
---------	-------------------	---	----

252-7872	6.0mm clear heatshrink	"	RS
----------	------------------------	---	----

252-8140	6.0mm black heat shrink.	"	RS
----------	--------------------------	---	----

497-381	Squeeze dispenser 402	TOOL	RS
---------	-----------------------	------	----

496-748	Syringes	TOOL	RS
---------	----------	------	----

CN00057	8 PIN DIN	CONNECTOR	CPC
---------	-----------	-----------	-----

192-1469	ANTI-STATIC foam cleaner		
---------------------	-------------------------------------	--	--

268-495	Cable tie	Ties	FARNELL
---------	-----------	------	---------

582-013	Twist tie 7-10mm	"	"
---------	------------------	---	---

582-025	" 10-13mm	"	"
---------	-----------	---	---

582-037	" 13-16.5mm	"	"
---------	-------------	---	---

582-049	" 16.5-20mm	"	"
---------	-------------	---	---

582-050	" 20-26mm	"	"
---------	-----------	---	---

873-615	Solder Station	Solder	"
---------	----------------	--------	---

971-066	Solder tip.	"	"
---------	-------------	---	---

544-516	Desolder tool	"	RS
---------	---------------	---	----

537-883	11 piece screw drivers	TOOL	RS
---------	------------------------	------	----

573-996	10mm spanner x 2	"	RS
---------	------------------	---	----

536-004	9mm knife	"	RS
---------	-----------	---	----

663-932	18mm knife	"	RS
---------	------------	---	----

841-378	9mm blades	"	"
---------	------------	---	---

841-788	18mm blades	"	"
---------	-------------	---	---

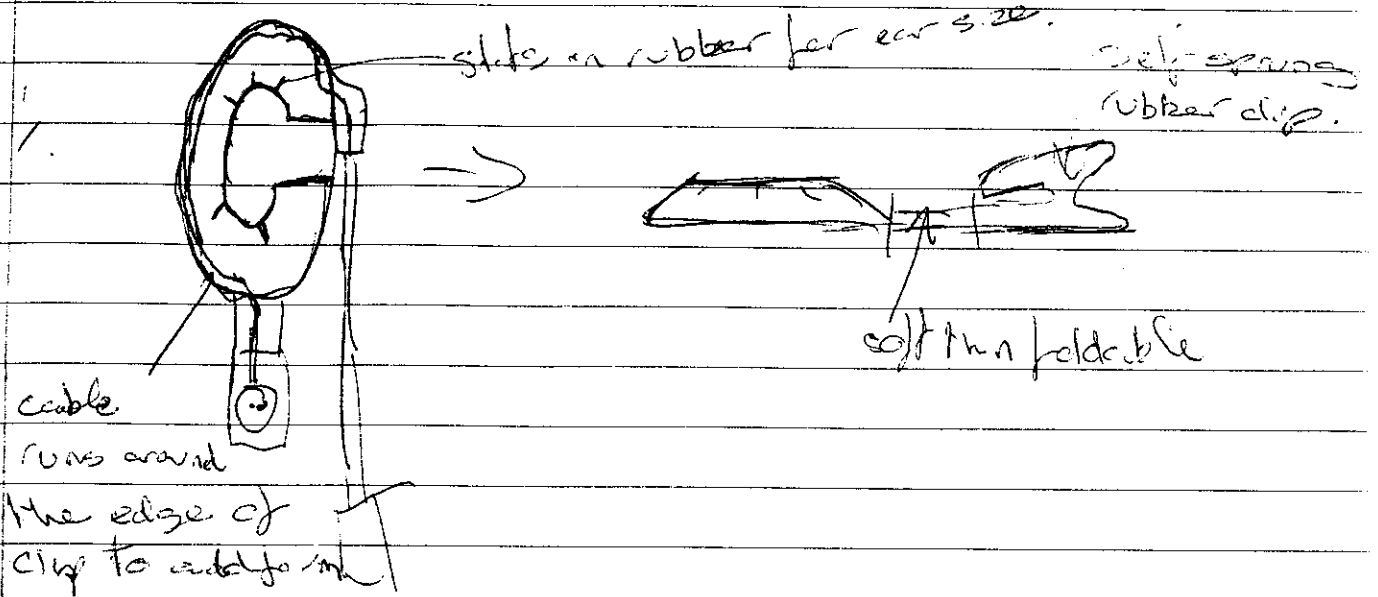
660-081			
--------------------	--	--	--

TL00164	Tweezers set	"	CPC
---------	--------------	---	-----

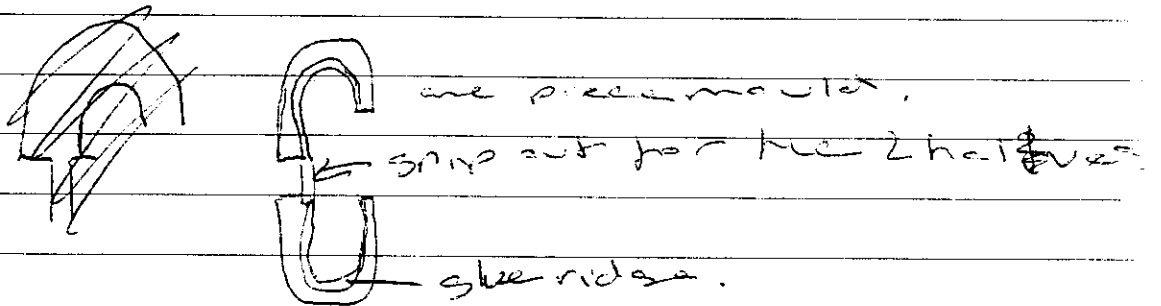
141-330	Eraser / Cleaner	"	FARNELL
---------	------------------	---	---------

312-5350	Helping hand.	"	"
----------	---------------	---	---

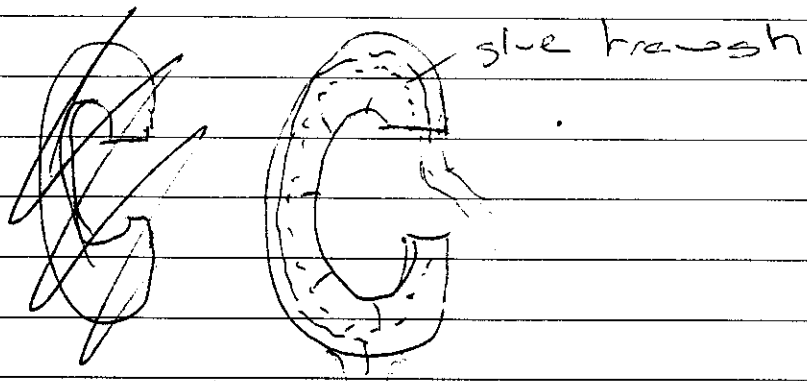
DESIGN FOR VIBROD EAK CLIP



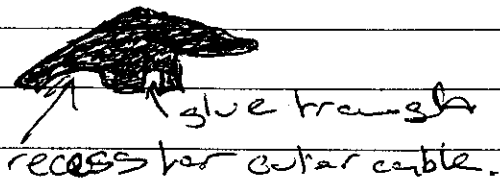
2, piece one.



piece two

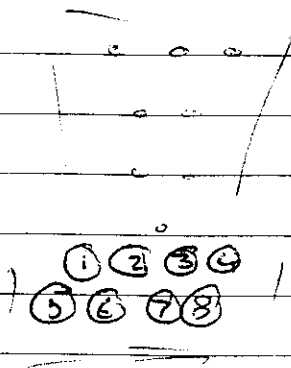


cross section.



MCI WIRE FOR OXI TIP EXTENSION CABLE

INTERNAL RV



1, RED

RED

2, -

3- Shields

Yellow

4- Black

Black

5, Yellow

~~Orange~~

6, Orange

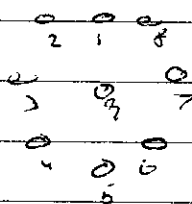
~~Blue~~

7, Blue

~~Blue~~

8, white

RV



1, Orange

6, -

2, Yellow

7, Shields

3, -

8, Black

4, Red

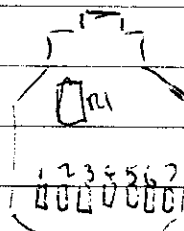
~~9, ~~Red~~ White~~

5, Blue

OXI TIP PROBE

MCI WIRE

CONN RV



1, Shields

2, Orange

3, Red

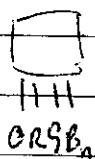
4, Green

5, Brown

6, White

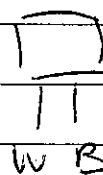
7, Black

LID RV



ORGB

Sensor RV



WB