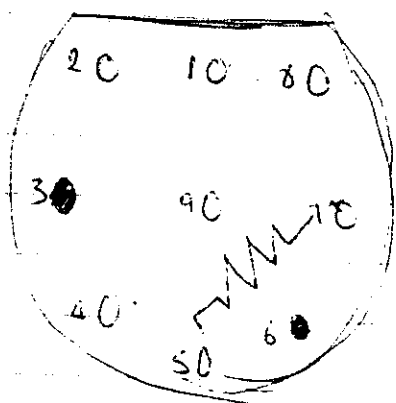


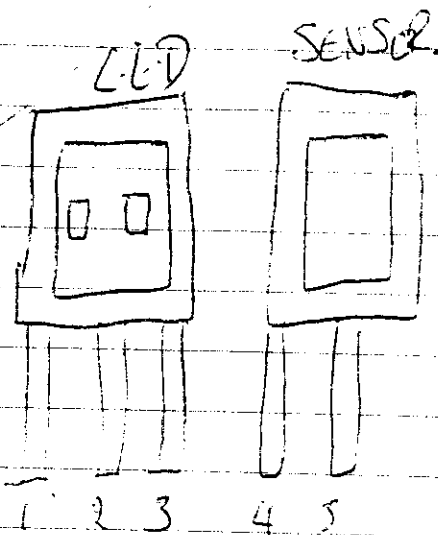
28/7/00

P8672A. Ambeda.
Hyperionics 9 Pin. Insertion Side.



- 1/ orange
- 2/ LED
- 3/ N/C
- 4/ Yellow
- 5/  - 68K Ω resistor
- 6/ N/C
- 7/ shields
- 8/ white
- 9/ Black

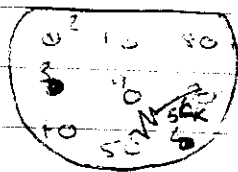
- 1/ RED
- 2/ yellow
- 3/ orange
- 4/ white
- 5/ Black



18-9-00

P8672A Chmuda from scratch

- 1 Orange - 1k Ω resistor
- 2 Red - Red
- 3 n/c
- 4 Yellow - Common
- 5 - 56K resistor
- 6 n/c
- 7 30k shields / 56K resistor
- 8 white
- 9 Black



LED Light
Common
1. R

13/9/00

12 1/2 FT.

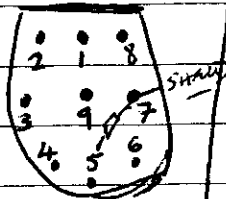
MICHAEL LYTWYN

P867 RA

OHMEDA

REPAIRS ONLY

CUT OFF
BLUE



LED



SENSOR



1) ORANGE.

2) RED.

3) N/C

4) YELLOW

5) 68K Ω RESISTOR.

6) N/C

7) SHIELDS + 68K Ω RESISTOR.

8) WHITE.

9) BLACK.

1) RED.

2) YELLOW

3) ORANGE

4) WHITE

5) BLK

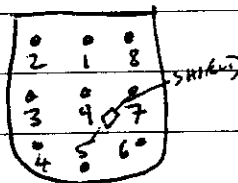
13/9/00

P867 RA

OHMEDA

FROM SC. 1.1

CUT OFF BLUE.



1) ORANGE.

2) RED.

3) N/C.

4) YELLOW

5) RESISTOR

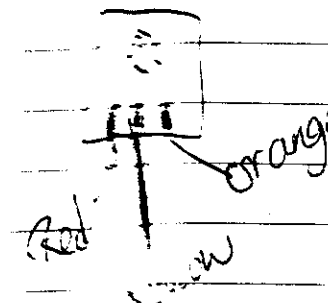
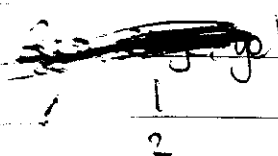
6) N/C

7) BOTH SHIELDS.

8) WHITE.

9) BLACK.

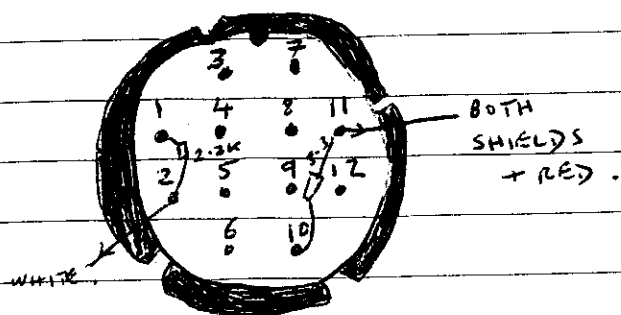
LED



6/10/00

12 1/2 FT.

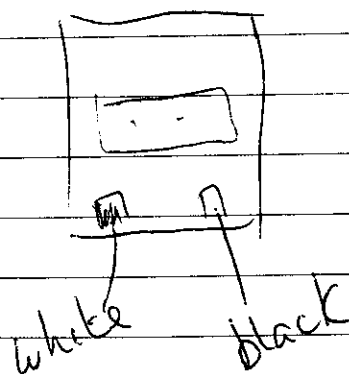
P886RA KONTRON (BUILD FROM SCRATCH)



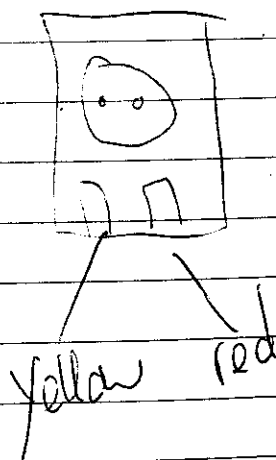
CUT OFF BLUE & ORANGE.

- 1) 2K2 RESISTOR
- 2) 2K2 RESISTOR + WHITE.
- 3) N/C
- 4) N/C
- 5) BLACK.
- 6) N/C
- 7) N/C
- 8) YELLOW
- 9) N/C.
- 10) 3K3 RESISTOR.
- 11) 3K3 RESISTOR + BOTH SHIELDS + RED
- 12) N/C.

SENSOR



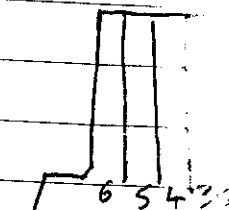
LED



30/8/00

1) CABLE HEAT SHRINK

1) CABLE GRIP



1) YELLOW (RIGHT TO LEFT)

2) ORANGE

3) RED

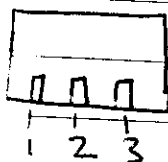
4) BLUE

5) BLACK

6) WHITE

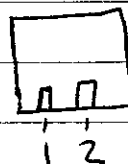
CUT OFF INNER SHIELD

LED



1) WHITE
2) BLACK
3) WHITE

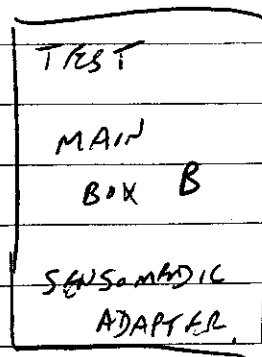
SENSOR



1) WHITE

2) BLACK

UNDER ZOK & ... TO OUTER SHIELD & BLUE & HEATSHRINK

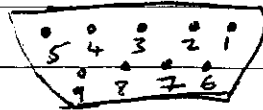


3 1/2 FT

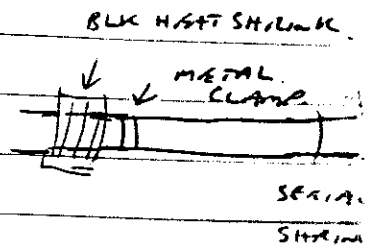
NONIN EXT CABLE.

P971 E3

9 PIN MALE

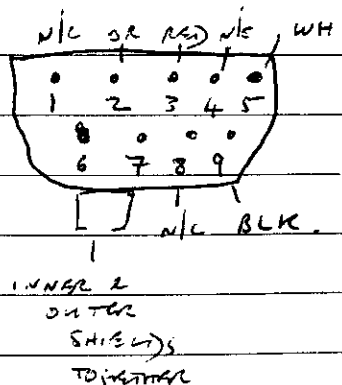


- 1) N/C.
- 2) ORANGE.
- 3) RED
- 4) N/C.
- 5) WHITE.
- 6) INNER & OUTER SHIELD
- 7) INNER & OUTER SHIELD
- 8) N/C
- 9) BLACK.



9 PIN FEMALE

COLOURS AS MALE



FUEL CELLS

TESTING R22 FUEL CELLS

RANGE

MIN

MAX

7.0 mV - 13.0 mV

TESTING T 7 FUEL CELLS

SWITCH ON

CONNECT CALIBRATOR.

- 1) CALIBRATE 21% (AIR)
- 2) CALIBRATE 100% (OXY)

RANGE

MIN

MAX

16%

25%

T 1

PREPINS

- 1) PUT PIPS IN BOARD,  ^{TIN} SOLDER TOP PEG.
- 2) CUT WIRES TO 7 CM LENGTH (BLACK & WHITE)
- 3) SOLDER OF EACH COLOUR

68

-1

82

95

120

IN VIVO

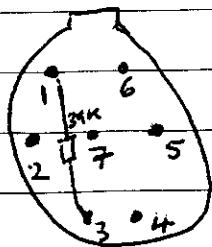
LEMO

P 878 RA.

10 1/2 FT

(7 PIN)

CUT YELL & ORANGE



1) 39K RESISTOR

2) RED.

3) 39K Ω

4) BLUE (WHEN CONVERTING YELLOW)

5) BLACK

6) WHITE

7) INNER/OUTER SHIELDS*

(PDB - C165)

(PDI - E833)

* THIN BOTH SHIELDS OUT AS THEY WILL NOT FIT IN CONNECTOR.

CONVERSION

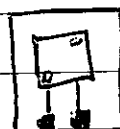
N/B: USE YELLOW INSTEAD OF BLUE.

LED



1 2

SENSOR



3 4

1) BLUE

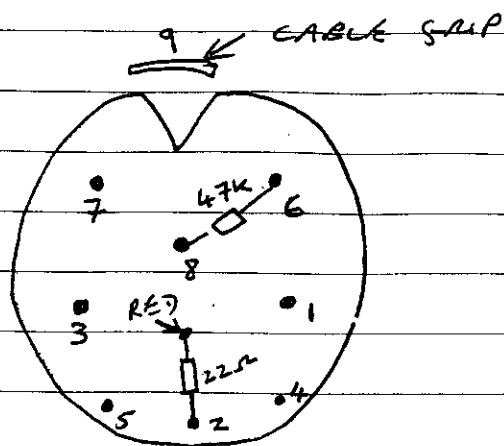
2) RED

3) WHITE

4) BLACK

P 963 E10 (DATASCOPE)

- 1/ YELLOW
- 2/ $22\Omega + \text{RED}$.
- 3/ WHITE.
- 4/ ORANGE.
- 5/ SHIELDS
- 6/ ~~47K Ω~~
- 7/ BLACK
- 8/ $47\text{K}\Omega$
- 9/ BLUE.



LEAVE 6, 8, & 5 UNSOLDERED UNTIL SHIELD & RESISTOR ARE INSERTED.

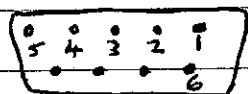
(HEAT SHRINK 47K RESISTOR + RED & 22Ω RESISTOR + SHIELDS)

BLACK, WHITE, YELLOW + ORANGE ALL SAME AS SHIELDS,
TIN ENDS, CUT RED A BIT LONGER TO ATTACH RESISTOR.

CRITIKOM P 877 RA

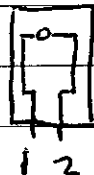
(3 1/2 FOOT WHEN CUT)

- 1/ CUT 7 FOOT LENGTH OF CABLE.
- 1A/ PUT S/N (CLEAR) HEATSHRINK, THEN PLUS END, THEN BLACK HEATSHRINK.
- 2/ TRIM EACH END 4 INCH TO REVEAL OUTER SHIELD.
- 3/ CUT OFF ORANGE & BLUE



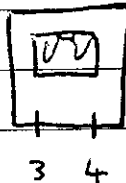
- 1/ BLACK.
- 2/ INNER SHIELD.
- 3/ OUTER SHIELD.
- 4/ YELLOW
- 5/ RED
- 6/ WHITE.

LED



- 1/ RED
- 2/ YELLOW

SENSOR



- 3/ WHITE
- 4/ BLACK

TAB

PLUS

K ON

20/7/00

P 858 TO P857

~~1/ CUT OFF~~

1/ CUT OFF ORANGE, BOTH SHIELDS TOGETHER.
(BLACK STRAIN RELIEF, CABLE CLAMP)

1/ WHITE
(ON SHORT LEE'S RESISTOR)

2/ BLACK & 10R (RESISTOR)

3/ BOTH SHIELDS & ALL 3 RESISTORS

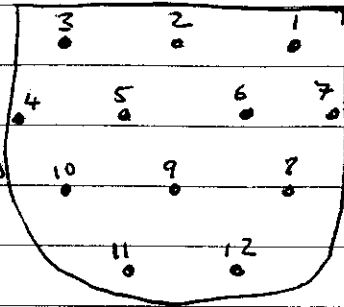
4/ N/C

5/ N/C

6/ N/C

7/ 62K RESISTOR

8/ 7K5 RESISTOR

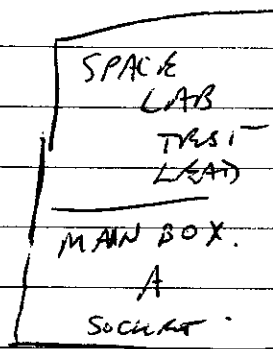


9/ N/C

10/ N/C

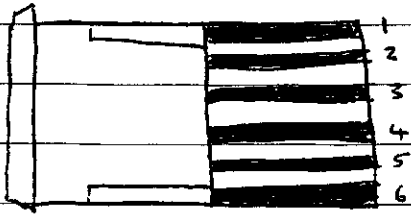
11/ RED

12/ YELLOW



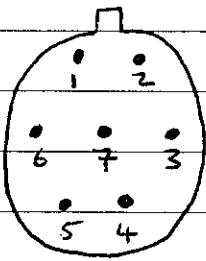
(7 PINS) GREY PLUS

P 991 E10 EXTENSION CABLE (CRITIKON)

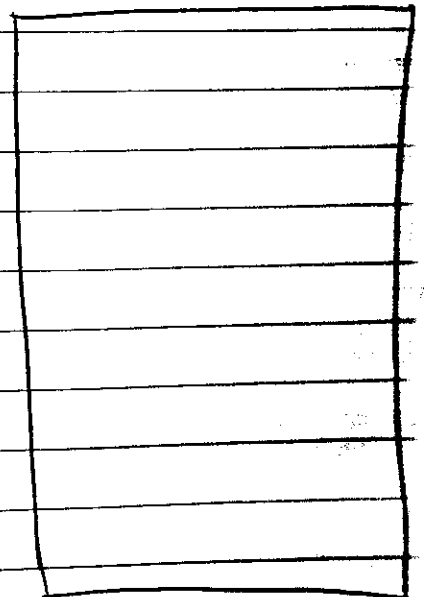


- 1/ RED.
- 2/ YELLOW
- 3/ ORANGE.
- 4/ BLUE.
- 5/ BLACK.
- 6/ WHITE.
- 7/ BOTH SHIELDS.

7 PIN LEMO

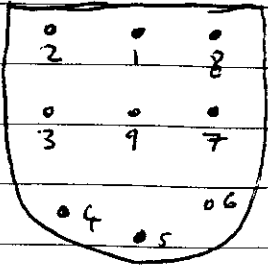


- 1/ WHITE.
- 2/ ^{BOTH} SHIELDS
- 3/ YELLOW
- 4/ RED
- 5/ ORANGE
- 6/ BLACK.
- 7/ BLUE.



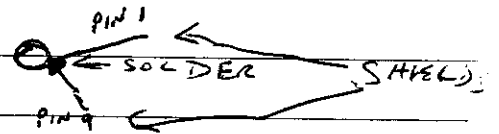
20/7/00

P 860 YA



1/

JOIN
~~THIS~~ BOTH SHIELDS BUT PUT ON
SEPARATE PINS

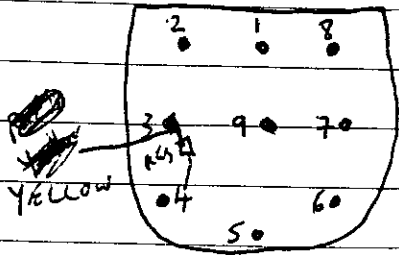


REFER TO P 860 RA.

FOR WIRING.

P 860 RA (SIMPLE)

11/7/00
LENGTH
25 FT.



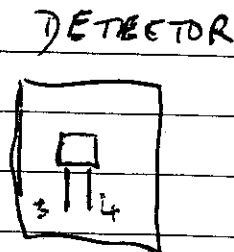
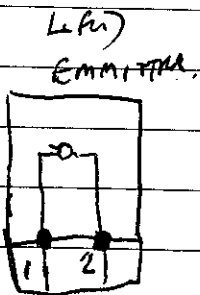
- 1/ SHIELD (INNER)
- 2/ ~~YELLOW~~ RED
- 3/ ~~YELLOW~~ 1K33 RESISTOR
- 4/ 1K33 RES.
- 5/ N/C
- 6/ BLACK.
- 7/ WHITE.
- 8/ N/C
- 9/ SHIELD (OUTER)

- 1/ TH
- 2/ CUT
- 3/ H.E.

N/B SPLIT SHIELDS & FASTEN TOGETHER. ^{CUT} ~~TAKE~~ OFF OF
HEATSHRINK RESISTOR & SEPARATE FROM SHIELDS.



CUT OFF BLUE & ORANGE & CUT OFF

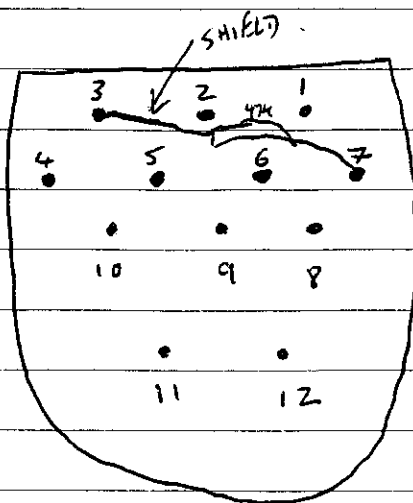


- 1/ ~~YELLOW~~ YELLOW
- 2/ ~~YELLOW~~ RED

- 3/ WHITE
- 4/ BLK

SOCKET L
IN MAIN
BOX

876 RA TO 887 RA (SPACE LABS)

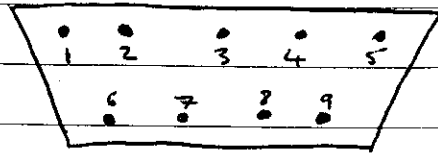


- 1/ WHITE.
- 2) BLACK
- 3) SHIELD + 47K RESISTOR.
- 4/ N/C
- 5/ N/C
- 6/ N/C
- 7) RESISTOR 47K.
- 8/ N/C
- 9/ RED
- 10/ ORANGE.
- 11/ N/C
- 12/ YELLOW.

TEST
LEAD.
RA 887 RA.
SPACE LABS
TO OHMADA

CONVERTING P862 RA TO P889 RA (CRITICARE)

- 1/ DE-SOLDER FROM CONNECTOR
- 2/ TAKE METAL COVER OFF & UNDO SHIELD.
- 3/ CUT SHIELD DOWN TO SAME LENGTH AS REST OF WIRES.
- 4/ PUT NEW CONNECTOR + CABLE GRIP ON.



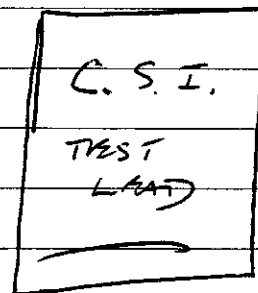
- | | |
|-----------------|-----------|
| 1/ RED | 6/ YELLOW |
| 2/ ORANGE. | 7/ N/C |
| 3/ N/C | 8/ N/C |
| 4/ BOTH SHIELDS | 9/ BLK. |
| 5/ WHITE | |

FASTEN CABLE GRIP ON



CLIP CONNECTOR
TOGETHER.

CLEAN CABLE & ADD STICKER (889 RA)



5/7/00

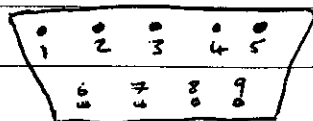
P973 E10EXTENSION CABLES

(DATEX)

(LENGTH 10 1/2)

FEMALE

(TOP VIEW)



1/ BLUE

6/ ORANGE.

2/ N/C

7/ RED

3/ YELL

8/ OUTER SHIELD

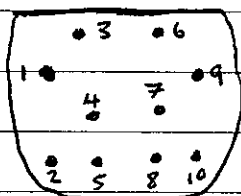
4/ N/C

9/ INNER SHIELD & BLK.

5/ WHITE

MALE

(TOP VIEW)



1/ 20K RES + 150 pF

6/ RED.

2/ N/C

7/ YELL

3/ N/C

8/ WHITE + RES + CAP.

4/ ORANGE.

9/ INNER SHIELD & BLK

5/ OUTER SHIELD & BLUE.

10/ N/C

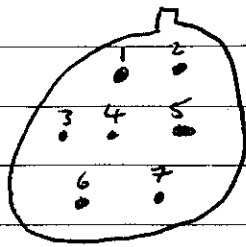
317100

P891 CONNECTOR.

LEMO CONNECTOR.

(CRITICON)

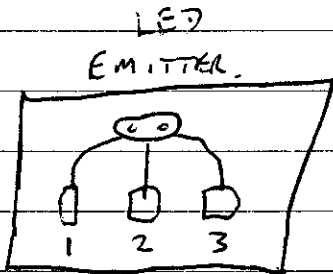
(LENGTH 12 1/2 FT.)



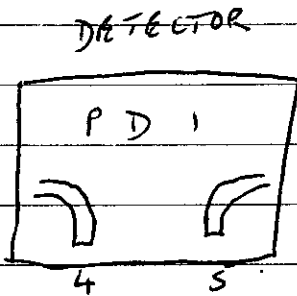
(TOP VIEW)

Shields together.

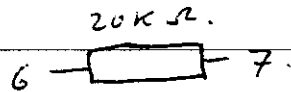
- | | |
|-----------------|------------|
| 1/ WHITE | 5/ ORANGE. |
| 2/ OUTER SHIELD | 6/ RED. |
| 3/ BLACK | 7/ YELL. |
| 4/ BLUE | |



LED
EMITTER.

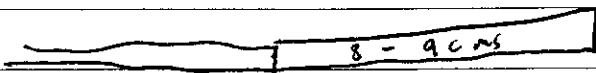
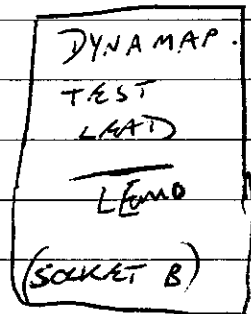


DETECTOR



- 1) YELLOW
- 2) RED.
- 3) ORANGE.
- 4) WHITE.

- 5) BLK.
- 6) BLU
- 7) OUTER SHIELD.



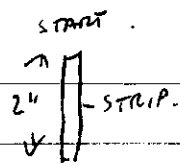
STRIP.

WHITE BUTTONS ON SHELLS

DATAX CONNECTOR.

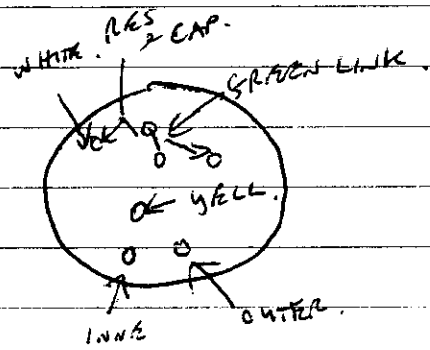
30/6/00

RED 2 OUT SHIELD - SOLDER
BLU 2 INNER SHIELD - SOLDER.

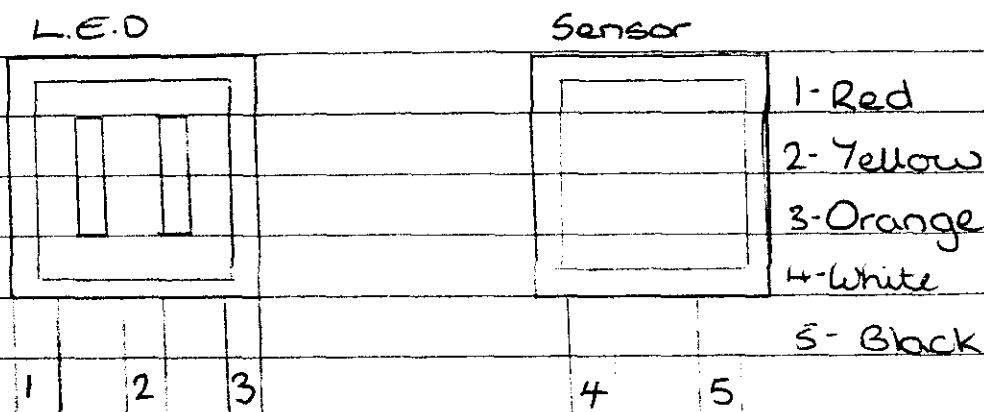


OR 2 BLU NOT REQ - CUT.

(TOP VIEW)

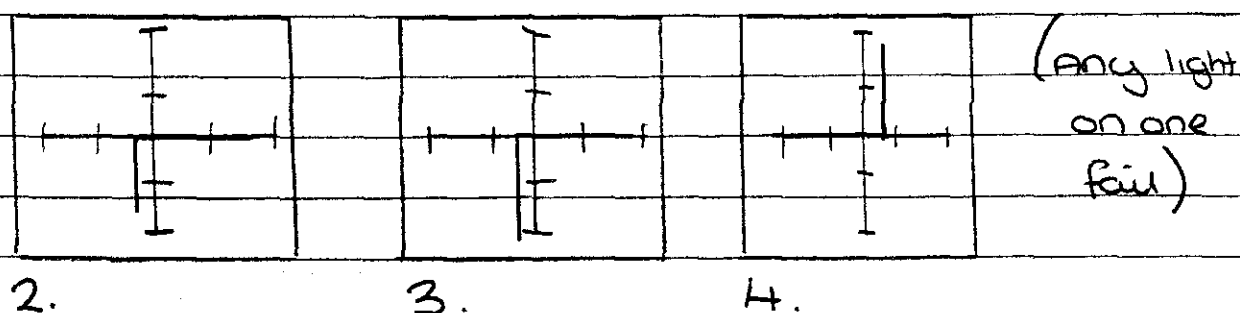


P867em Ohmeda.



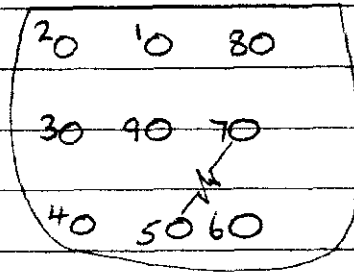
- 1- Strip the cable down about 8-9 cm ($8\frac{3}{4}$ cm)
- 2- The inner + outer shields cut off (NOT NEEDED)
- 3- Blue wire not needed, cut off.
- 4- Strain relief - glue into place.
- 5- Cut the Red, Yellow, Orange wires down to about 1-1½ cm.
- 6- ~~Strip~~ Strip the Black, white wires about 5mm leaving the total length 8cm.
- 7- Tip all wire ends.
- 8- Solder Red, Yellow, Orange wires onto the L.E.D. as in diagram above.
- 9- Solder Black, white wires onto Sensor as in diagram

Test positions



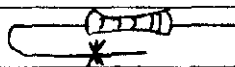
19th Dec 2000

P867ea Ohmeda (from scratch)
(12ft)



1. Orange - infra red
2. Red - red
3. Not connected
4. Yellow - common
5. 56k resistor
6. Not connected
7. Both shields/56k resistor
8. White
9. Black

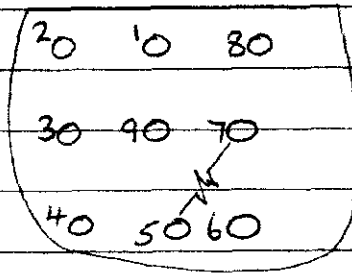
- 1- clear Heatshrink, Backnut, collet.
- 2- Strainrelief, chord grip
- 3- Strip cable down 1 1/2 inch (Don't cut outershield.)
- 4- cut off the blue wire.
- 5- Strip the innercable cover, (Don't damage shield)
- 6- Tin the two shields together.
- 7- cut down all wires to 1 1/2 cm - shield to 1cm then tin the ends.
- 8- put Solder into the end of the pins, solder wires into pins.



1. Brown 2. Red 3. Red 4. Blue 5. Green
9. Hairpin Bend in the resistor as above
10. Solder Shield to the long leg (*)
11. Insert pins into 9 pin insert.

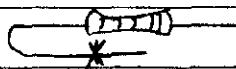
19th Dec 2000

P867ea Ohmeda (from scratch)
(12ft)



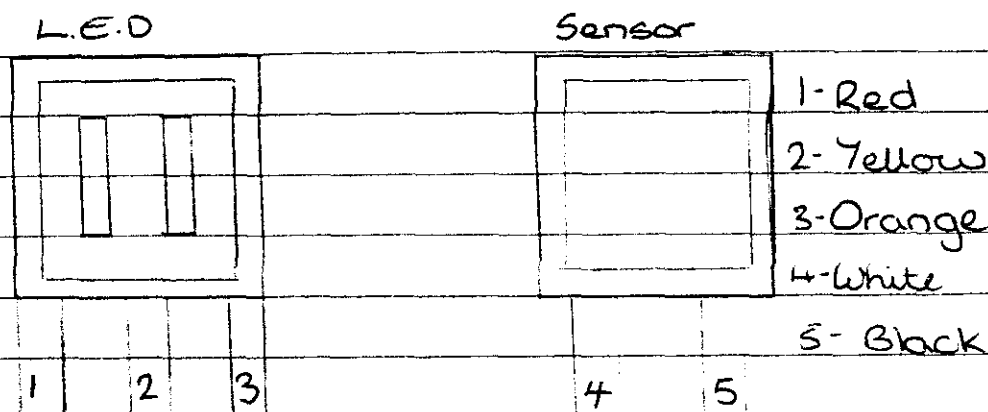
1. Orange - infra red
2. Red - red
3. Not connected
4. Yellow - common
5. 56k resistor
6. Not connected
7. Both shields/56k resistor
8. White
9. Black

- 1- clear Heatshrink, Backnut, collet.
- 2- Strainrelief, chord grip
- 3- Strip cable down 1 1/2 inch (Don't cut outershield.)
- 4- cut off the blue wire.
- 5- Strip the innercable cover, (Don't damage shield)
- 6- Tin the two shields together.
- 7- cut down all wires to 1 1/2 cm - shield to 1cm then tin the ends.
- 8- put solder into the end of the pins, solder wires into pins.



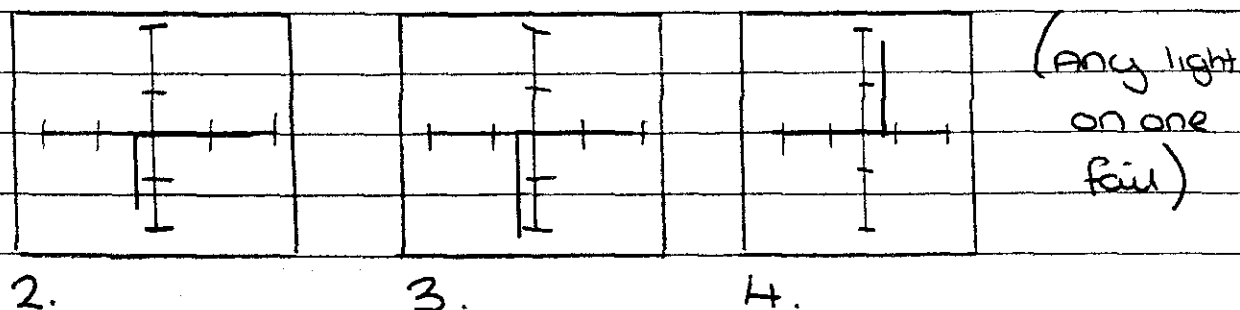
1. Brown 2. Red 3. Red 4. Blue 5. Green
9. Hairpin Bend in the resistor as above
10. Solder shield to the long leg (*)
11. Insert pins into 9 pin insert.

P867em Ohmeda.



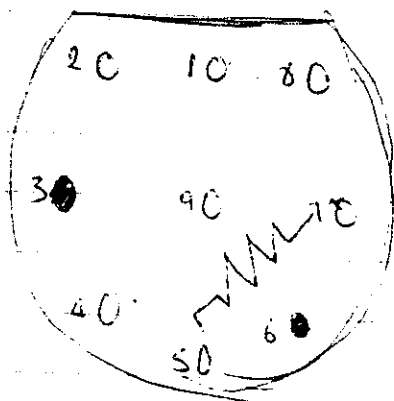
- 1- Strip the cable down about 8-9 cm ($8\frac{3}{4}$ cm)
- 2- The inner + outer shields cut off (NOT NEEDED)
- 3- Blue wire not needed, cut off.
- 4- Strain relief - glue into place.
- 5- Cut the Red, Yellow, Orange wires down to about 1-1½ cm.
- 6- ~~Strip~~ Strip the Black, white wires about 5mm leaving the total length 8cm.
- 7- Tip all wire ends.
- 8- Solder Red, Yellow, Orange wires onto the L.E.D. as in diagram above.
- 9- Solder Black, white wires onto Sensor as in diagram

Test positions



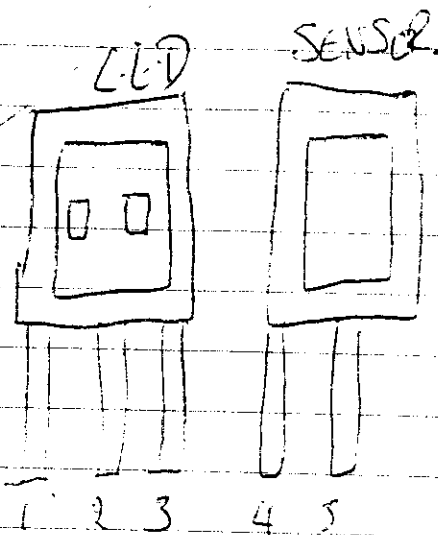
28/7/00

P8672A. Omheda.
Hyperionics 9 Pin. Insertion Side.



- 1/ orange
- 2/ LED
- 3/ N/C
- 4/ Yellow
- 5/  - 68K Ω resistor
- 6/ N/C shields
- 7/ white
- 8/ Black

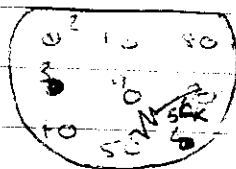
- 1/ RED
- 2/ yellow
- 3/ orange
- 4/ white
- 5/ Black



18-9-00

P8672A Omheda from scratch

- 1 Orange - 1k Ω resistor
- 2 Red - Red
- 3 n/c
- 4 Yellow - Common
- 5 - 56K resistor
- 6 n/c
- 7 30k shields / 56K resistor
- 8 white
- 9 Black



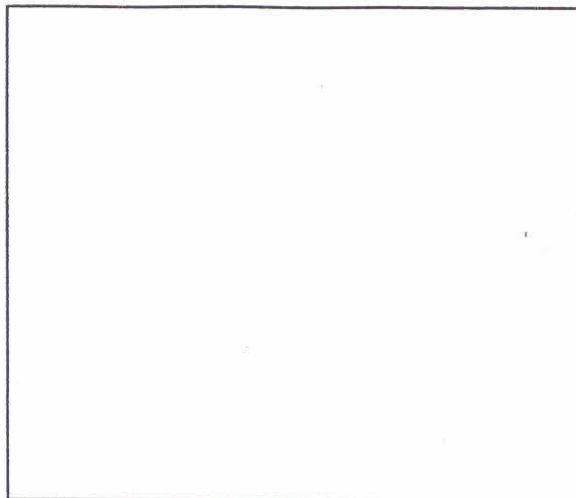
LED Light
Common
1. R

OHMEDA OXY-TIP

SOCKET 'B' WITH TEST
CABLE.

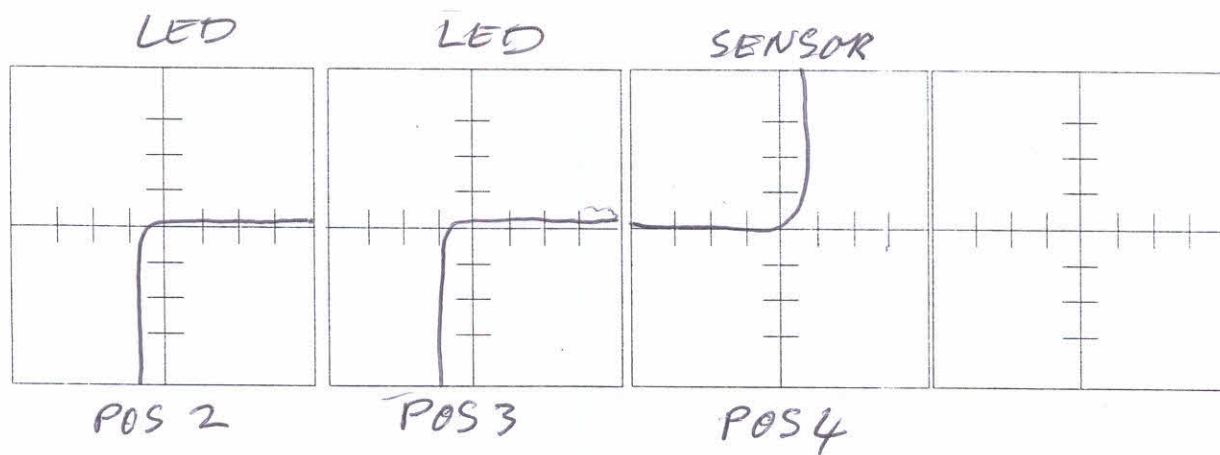
Connector 2 wiring

Pin 1
Pin 2
Pin 3
Pin 4
Pin 5
Pin 6
Pin 7
Pin 8
Pin 9



Test Instructions

Test using Test fixture & curve tracer



OHMEDA MONITOR 3700.

GREATER THAN 7Q (REVISION)

Drawn BY	
Date	
Checked By	
Date	
Revised By	
Revision Date	
Revision number	

P867RA OHMEDA.

12' CABLE

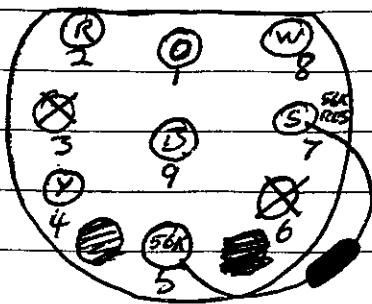
1 = ORANGE

2 = RED

3 = N/C

4 = YELLOW

5 = 56K RES.

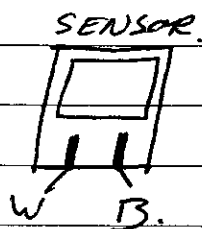
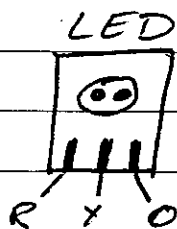


6 = N/C

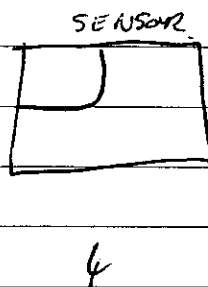
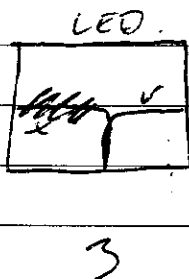
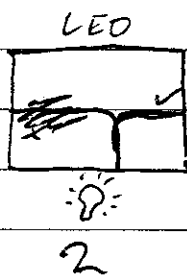
7 = BOTH SHIELDS / 56K RES

8 = WHITE

9 = BLACK.



NOTE. BLACK FINGER PADS + GREEN H'S & BOTTOMUS
0010133 0010182



13/9/00

12 1/2 FT.

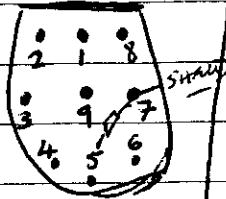
MICHAEL LYTWYN

P867 RA

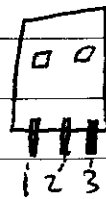
OHMEDA

REPAIRS ONLY

CUT OFF
BLUE



LED



SENSOR



1) ORANGE.

2) RED.

3) N/C

4) YELLOW

5) 68K Ω RESISTOR.

6) N/C

7) SHIELDS + 68K Ω RESISTOR.

8) WHITE.

9) BLACK.

1) RED.

2) YELLOW

3) ORANGE

4) WHITE

5) BLK

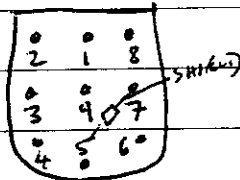
13/9/00

P867 RA

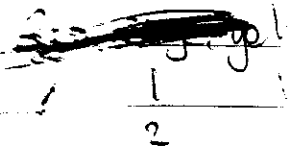
OHMEDA

FROM SC. 1.1

CUT OFF BLUE.



LED



1) ORANGE.

2) RED.

3) N/C.

4) YELLOW

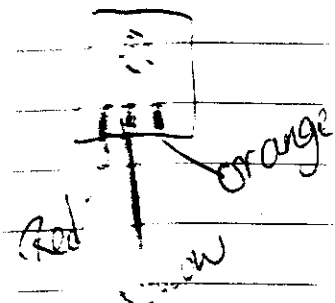
5) RESISTOR

6) N/C

7) BOTH SHIELDS.

8) WHITE.

9) BLACK.



LIST OF RESISTORS USED IN OTHERS IN Kohms

20.0	}	B10X 3700
21.5		
23.2		
24.9		
26.7		
28.7		
30.9		
33.2		
35.7		
38.3		
41.2		
44.2		
47.5		
51.1		
56.2		
61.9		
68.1		
75.0		
82.5		

OTHERS HAVE BEEN FOUND ON LATER PROBES

EPIC, MEDICAL CONCENTS - VIAMAD DEVELOPMENT ENG
HAVE SEPARATELY CHOSEN 75k Ω
COLUMNS 2, 3, 4, ARE THE R-CURVE RATIO
POINTS AT 85%, 95%, 99% AT THE RESISTANCE VALUES

NELCOR ~~REPLACEMENTS~~ REPLACEMENTS, EPIC ETC USE 4.5k Ω

Page 2 of 2

$$A_v = 0.0033$$

004

-2032

10028

DIFFERENCE ↓	LIST OF	RESISTORS	USED IN	
	OHMS-DA	PROBES	(Q ₂₈)	
	K ₂	85%	95%	99%
1.5	20.0	0.990	.707	.572
1.7	21.5	.986	.704	.569
1.7	23.2	.982	.700	.566
1.7	24.9	.977	.697	.563
1.7	26.7	.973	.694	.560
2.0	28.7	.969	.691	.558
2.2	30.9	.965	.688	.555
2.3	33.2	.961	.684	.552
2.5	35.7	.957	.681	.549
2.6	38.3	.953	.678	.546
2.9	41.2	.949	.675	.543
3	44.2	.945	.671	.540
3.3	47.5	.941	.668	.538
5.1	51.1	.937	.665	.535
5.5	56.2	.933	.662	.532
6.2	61.9	.929	.659	.529
6.9	68.1	.925	.655	.526
7.5	75.0	.921	.652	.523
8.4	82.5	.917	.649	.521
22.4	90.9	0.913	0.646	0.518

5902

99% point on the R-Curve for Russian

✓ 17/11/15

ORIGINAL 19 REVISIONS B104. 3-700

→ *

Added Since
First Matchings

* APPRAYS TO A STANDARD i.e. IDIC, MEDICAL CONCEPTS + URBAN DEVELOPMENT PEOPLE

Date		Type	Ohmeda
Schematic's		Cable 8' 3"	

Rear View

To Sensor

A B C D E

Pin Number	Ohmeda Cable Original Model	Ohmeda Cable New Model	Epic Cable Original Model	Epic Cable New Model
1	Orange	Orange	Orange	Orange
2	Green	Green	Yellow	Yellow
3	-	-	-	-
4	Red	Red	Red	Red
5	Resistor	Resistor	Resistor	Resistor
6	-	-	-	-
7	Resistor	Resistor + Shield	Resistor	Resistor + Shield
8	Black	Black	Black	Black
9	Shield	White	Shield	White
A	Green	Green	Yellow	Yellow
B	Red	Red	Red	Red
C	Orange	Orange	Orange	Orange
D	Black	Black	Black	Black
E	Shield	White	Shield	White

Sw Pos 2

L.E.D.

Sw Pos 3

I.R.

Sw Pos 4

Sensor

Drawn By:	Signed:
-----------	---------

P867RA OHMEDA.

12' CABLE

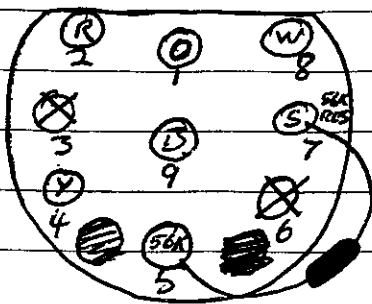
1 = ORANGE

2 = RED

3 = N/C

4 = YELLOW

5 = 56K RES.

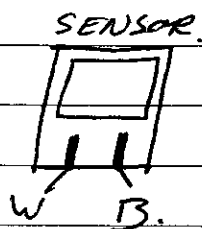
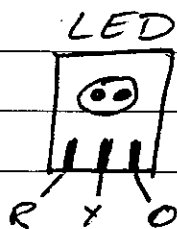


6 = N/C

7 = BOTH SHIELDS / 56K RES

8 = WHITE

9 = BLACK.



NOTE. BLACK FINGER PADS + GREEN H'S & BOTTOMUS

0010133

0010182

