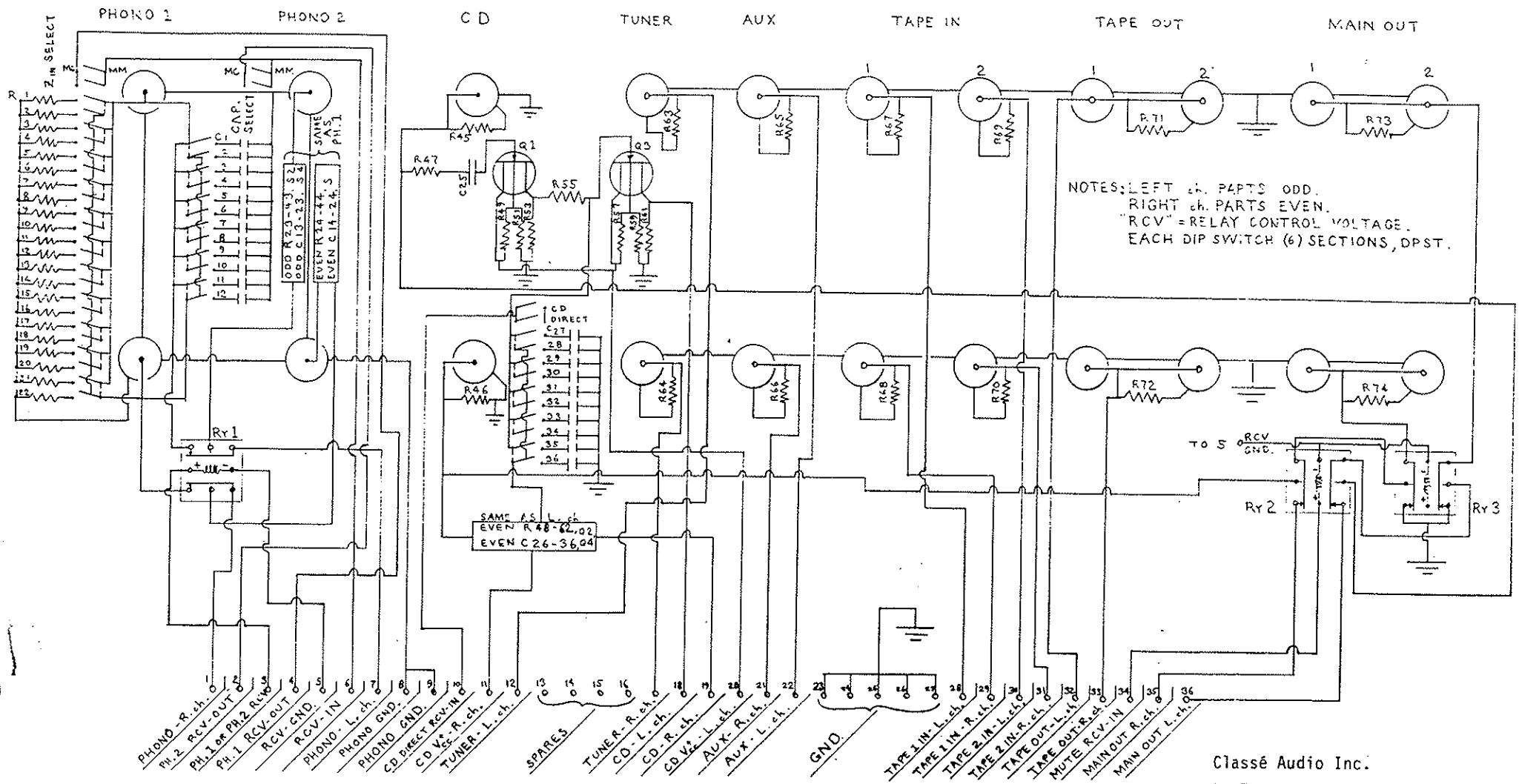
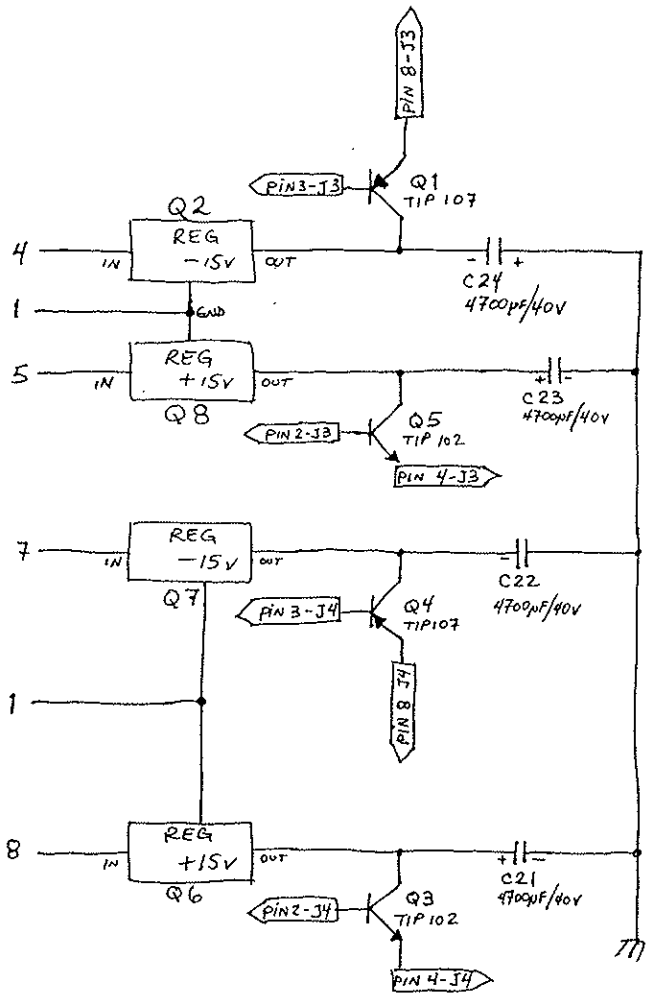


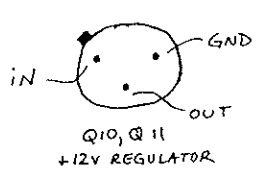
Classé Audio Inc.

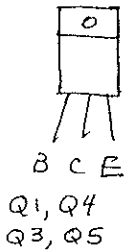
DR-7 PREAMPLIFIER

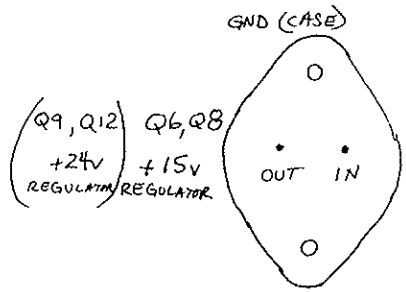
DR-7-2r1 INPUT/OUTPUT

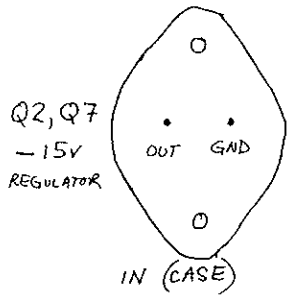


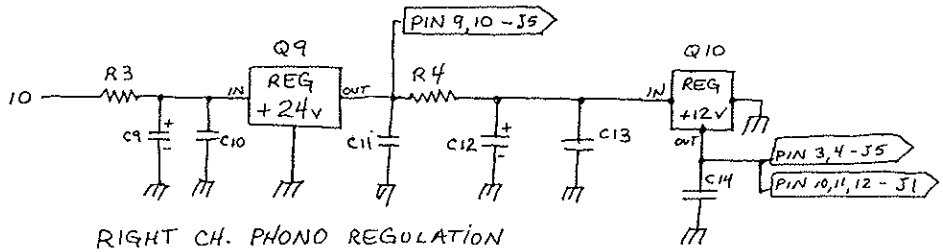
LINE OUTPUT AND
LINE REGULATION



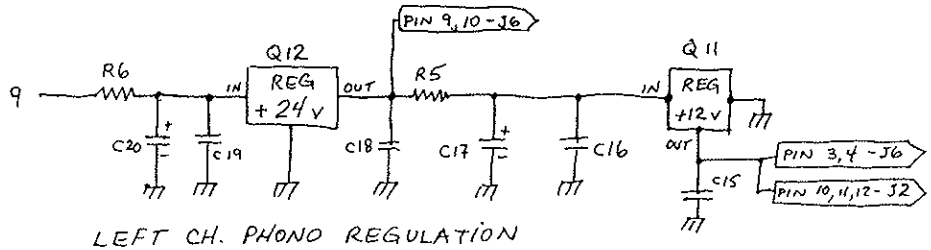








RIGHT CH. PHONO REGULATION

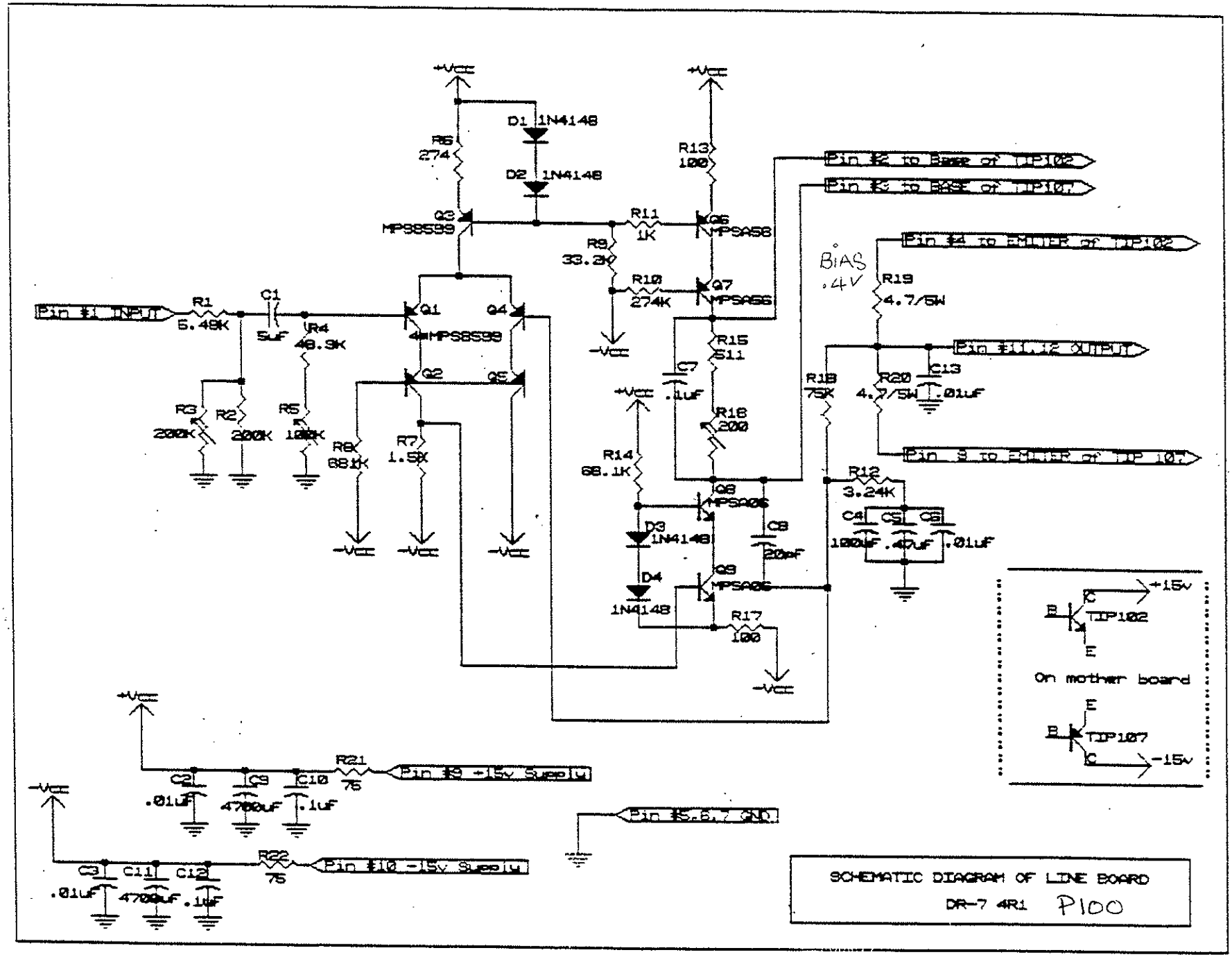


LEFT CH. PHONO REGULATION

R3,4,5,6 = 274Ω
C11,14,15,18 = 0.1μF/200V
C 10,13,16,19 = 0.47μF/200V
C 9,12,17,20 = 4700μF/40V

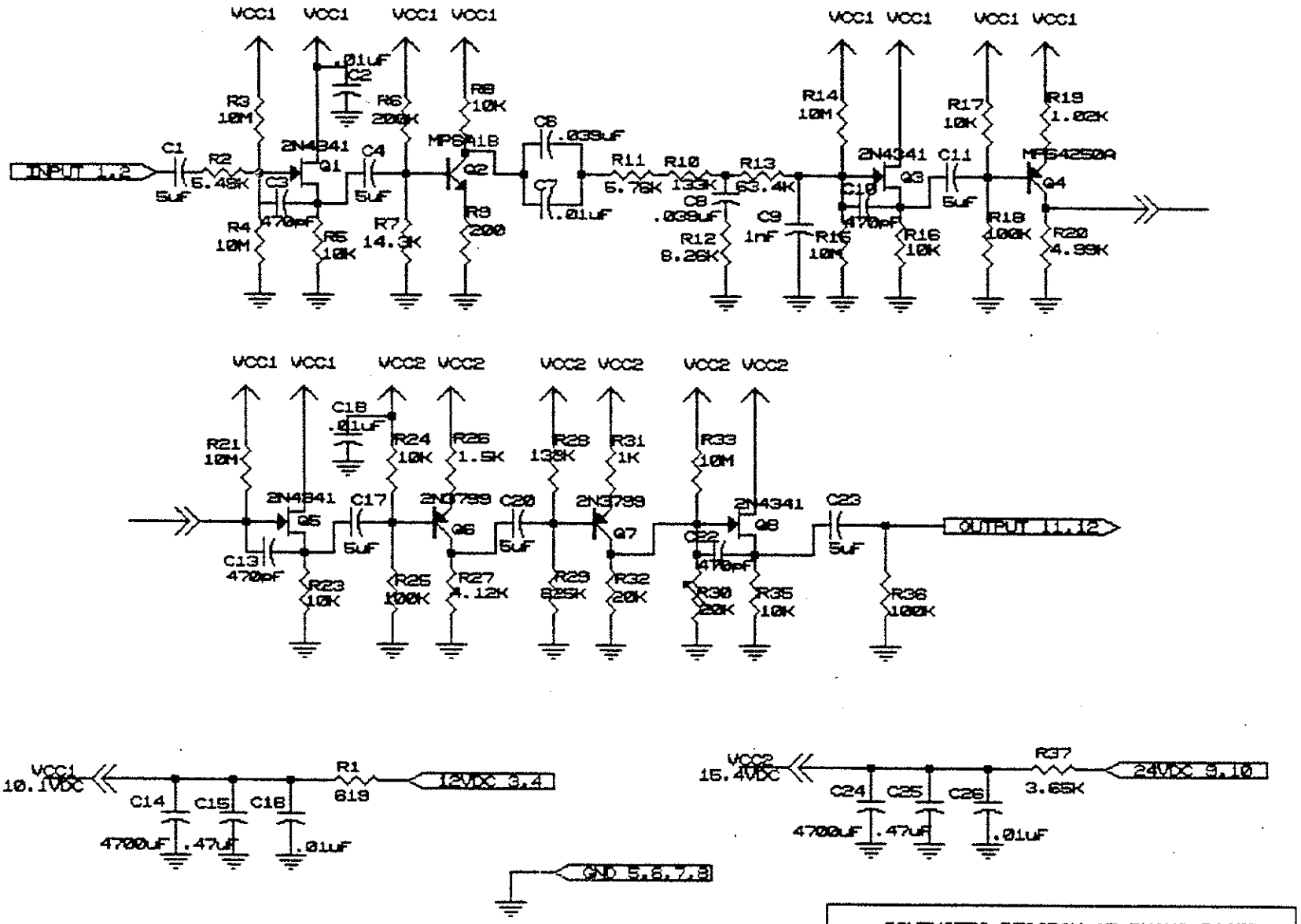
P100
DR7-7RO

8-94

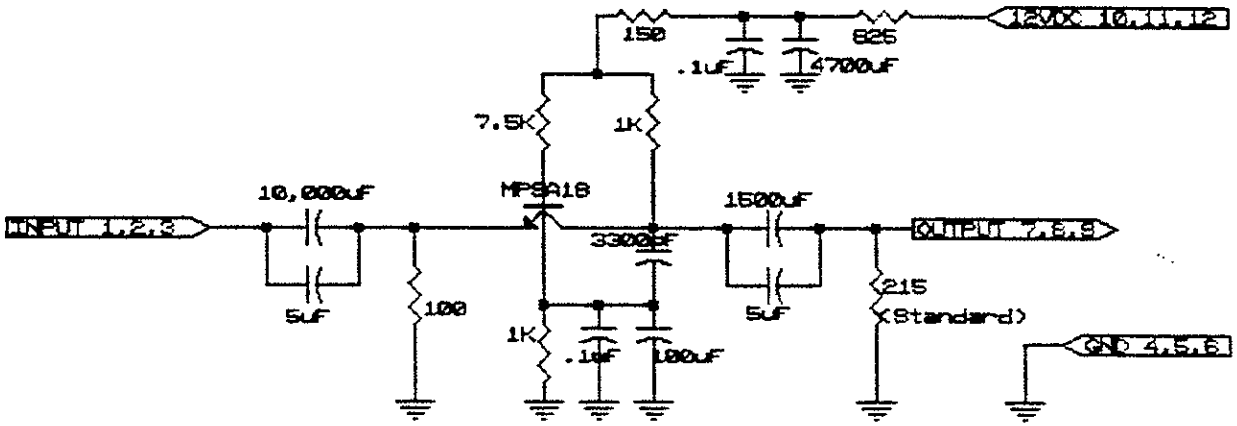


SCHEMATIC DIAGRAM OF LINE BOARD

DR-7 4R1 P100


VCC1
VCC2
INPUT 1,2
OUTPUT 11,12
2N4341
2N3799
MPS-A18
MPS4250A
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C12
C13
C14
C15
C16
C17
C18
C20
C22
C23
C24
C25
C26
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
R16
R17
R18
R19
R20
R21
R23
R24
R25
R26
R27
R28
R29
R30
R31
R32
R33
R35
R36
R37
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
5uF
.01uF
.039uF
470pF
1nF
4700uF
.47uF
10.1VDC
12VDC 3.4
15.4VDC
24VDC 9.10
GND 5,6,7,8
SCHEMATIC DIAGRAM OF PHONO BOARD
DR-7 3R2
Date:Apr 15th 1988

P100



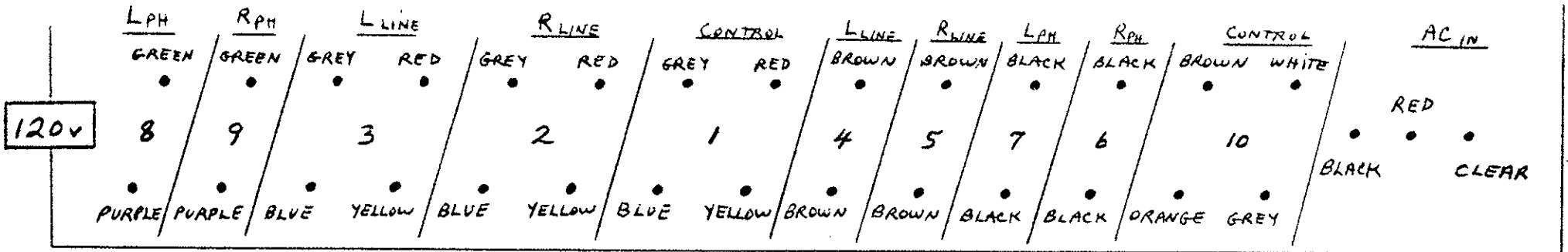
GAIN (db)	RESISTOR (ohm)	
20	100	
22	127	
24	165	
26	215	(Standard)
28	287	
30	383	
32	511	
34	788	
36	1150	
38	1980	
40	4220	

SCHEMATIC DIAGRAM OF M.C./NIL-8

DR-7 12R0

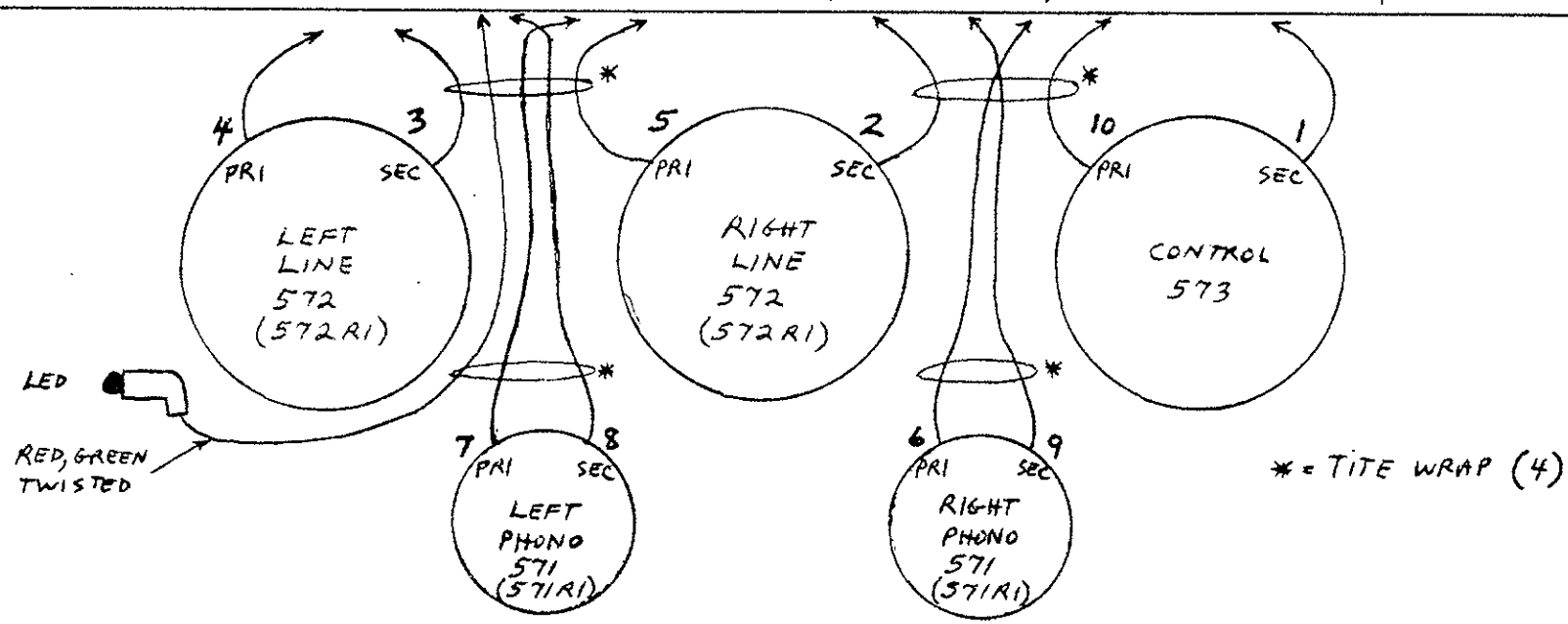
P100

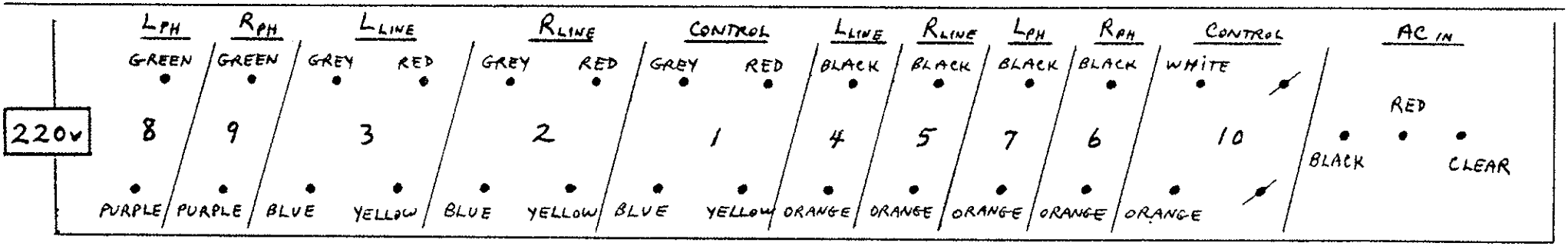
DR-7 SOLDERING SEQUENCE (1-10)



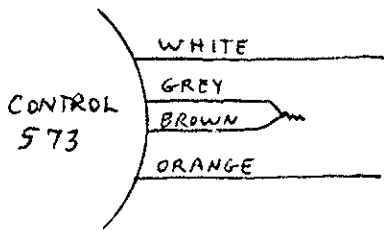
for 120v:
573
572
571

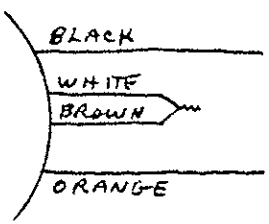
for 220v:
573
572R1
571R1

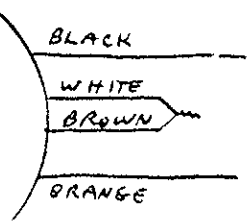


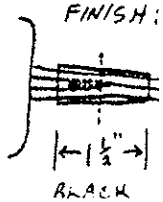


PRIMARIES:
220v









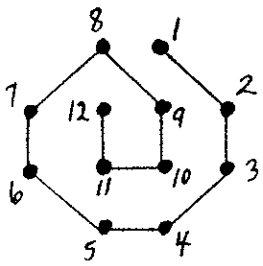
P100
DR7-7RO

8-94

DR-7 LEMO SOCKETS

JAN 25, 1989

FEMALE SOCKET.



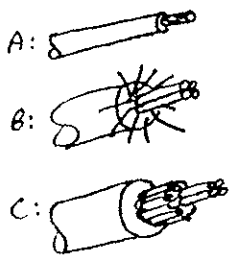
BEGIN BY #12

WIRE PREPARATION

1- STRIP $\frac{1}{8}$"

2- SEPARATE OUTER STRANDS FROM INNER CORE OF 4 WIRES.

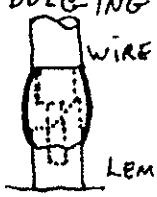
3- CUT OFF ALL BUT THIS INNER CORE, BY $\frac{1}{16}$".



SOLDERING

1- USE SILVER SOLDER

2- INSERT 4-WIRE CORE INTO LEMO, SOLDER UNTIL JOINT IS FILLED AND BULGING SLIGHTLY.



P/S UNIT		FUNCTION
12	BLACK	REMOTE
11	— EMPTY —	
10	RED	RPH
9	RED	LPH
8	CLEAR	RY −
7	ORANGE	RY +
6	BLUE	RL −
5	RED	RL +
4	YELLOW	MUTE RY+
3	BLUE	LL −
2	RED	LL +
1	GREEN	GROUND

MAIN UNIT		FUNCTION
12	BLACK	REMOTE
11	GREEN	SHIELD
10	RED	RPH
9	RED	LPH
8	RED	LL +
7	BLUE	LL −
6	YELLOW	MUTE RY+
5	RED	RL +
4	BLUE	RL −
3	ORANGE	RY +
2	CLEAR	RY −
1	GREEN	GROUND

YELLOW SHRINK TUBING

* P/S-UNIT AND MAIN-UNIT : SOLDER TO RESPECTIVE BOARDS IN SAME COLOR POSITION AS SHOWN FOR NEW AMP CONNECTORS.

RED SHRINK TUBING

MATERIALS (1 SET)

$\frac{3}{8}$" ϕ x $\frac{3}{4}$" RED H.S.

$\frac{3}{8}$" ϕ x $\frac{3}{4}$" YELLOW H.S.

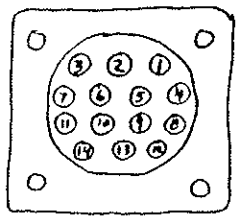
2x LEMO SOCKETS

1 SET 18ga WIRES 7" LONG (SEE DR-7 WIRE LIST).

NEW DR-7 CONNECTOR

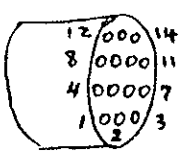
	CABLE (MALE PINS BOTH ENDS)		P/S-U AND MAIN UNIT (FEMALE)
1	WHITE	GND	GREEN
2	WHITE - YELLOW	LL ⊕	RED
3	WHITE - ORANGE	LL ⊖	BLUE
4	RED - ORANGE	MUTE Ry ⊕	YELLOW
5	RED - GREEN	RL ⊕	RED
6	RED - BLACK	RL ⊖	BLUE
7	WHITE - RED	Ry ⊕	ORANGE
8	WHITE - GREEN	Ry ⊖	WHITE
9	RED	L PH.	RED
10	RED - WHITE	R PH.	RED
11	SHIELD	SHIELD	* GREEN MAIN UNIT ONLY *
12	RED - YELLOW	REMOTE	BLACK

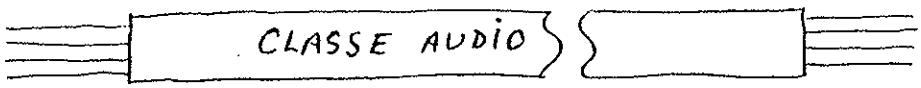
(WHITE-BLACK NOT USED)



OUTSIDE VIEW (CABLE CONNECTION END).

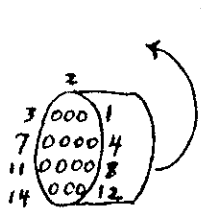
NOTES: STRIP CABLE 1"
STRIP EACH WIRE 1/8"
SHIELD : USE ALL STRANDS





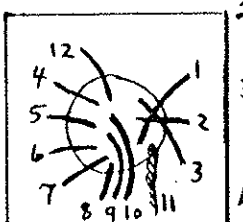
START

FINISH



PROCEDURE

1- INSERT 1,2,3
2- MOVE RED-YELLOW OUT BETWEEN WHITE AND WHITE-GREEN.
3- INSERT 4,5,6,7
4- INSERT 8,9,10
5- INSERT 12
6- MOVE SHIELD WIRE NEAR POSITION 11, AND RETWIST IF NECESSARY. CUT TO 1" LENGTH, INSTALL MOLEX AND INSERT INTO BLOCK IN POSITION 11.



WIRE POSITION AFTER STEP #3 (FINISH)

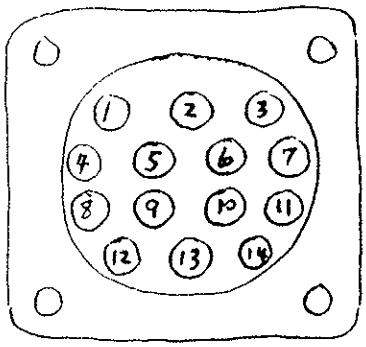
PROCEDURE

1- INSERT 1,2,3 THEN TWIST C.W.
2- MOVE RED-YELLOW OUT BETWEEN WHITE-ORANGE AND RED-ORANGE.
3- MOVE WHITE-GREEN, RED, RED-WHITE, AND SHIELD OUT BETWEEN WHITE AND WHITE-RED. (SEE DIAGRAM)
4- INSERT 4,5,6,7
5- INSERT 8,9,10,12.
6- MOVE SHIELD WIRE NEAR POSITION 11, AND RETWIST IF NECESSARY. CUT TO 1" LENGTH, INSTALL MOLEX AND INSERT INTO BLOCK IN 11.

NEW DR-7 CONNECTOR FEMALE SOCKETS

* USE SMALLER AMP MALE/FEMALE CONTACTS, KEPT WITH CONNECTORS

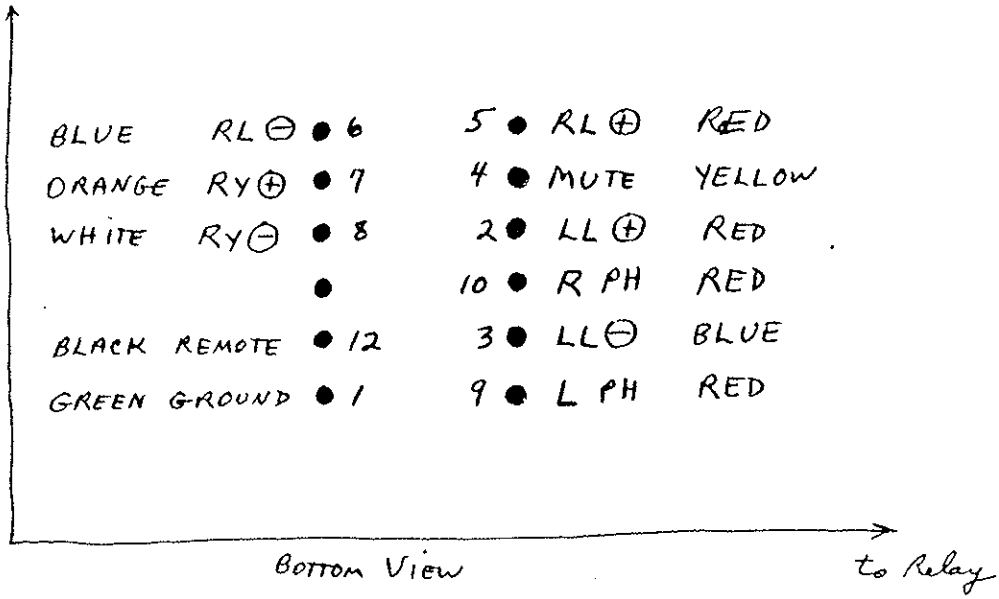
P/S UNIT



INSIDE VIEW

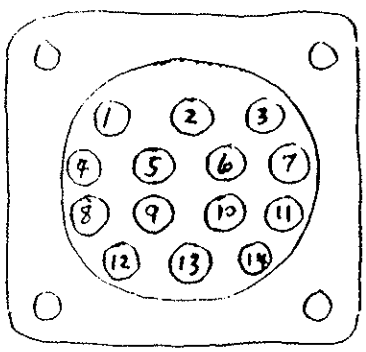
green red blue
yellow red blue orange
white red red
black

YELLOW SHRINK
3/8" x 3/4"



MAIN UNIT

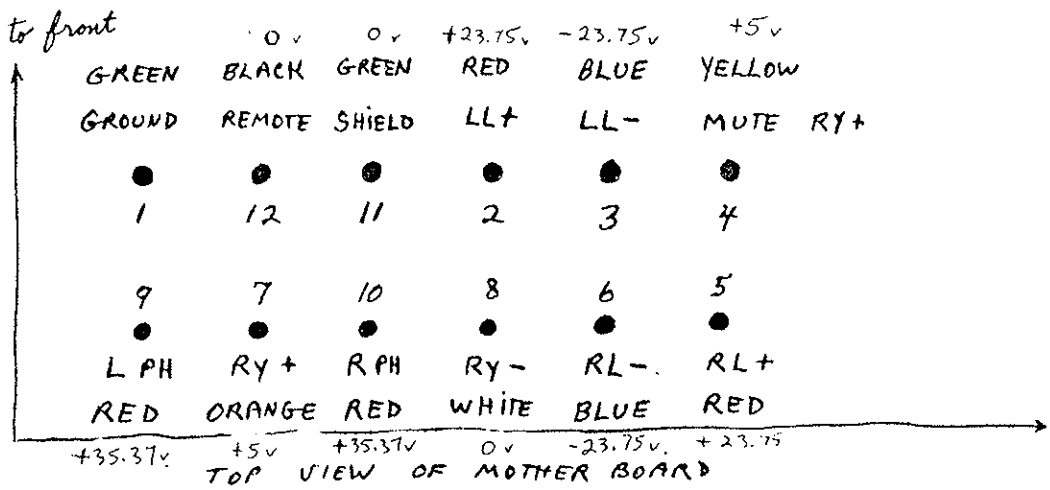
VOLTAGES: relative to ground.



INSIDE VIEW

green red blue
yellow red blue orange
white red red green
black

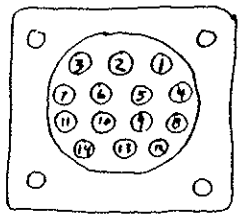
RED SHRINK
3/8" x 3/4"



NEW DR-7 CONNECTOR

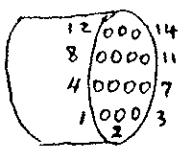
	CABLE (MALE PINS BOTH ENDS)		P/S-U AND MAIN UNIT (FEMALE)
1	WHITE	GND	GREEN
2	WHITE - YELLOW	LL ⊕	RED
3	WHITE - ORANGE	LL ⊖	BLUE
4	RED - ORANGE	MUTE Ry ⊕	YELLOW
5	RED - GREEN	RL ⊕	RED
6	RED - BLACK	RL ⊖	BLUE
7	WHITE - RED	Ry ⊕	ORANGE
8	WHITE - GREEN	Ry ⊖	WHITE
9	RED	L PH.	RED
10	RED - WHITE	R PH.	RED
11	SHIELD	SHIELD	* GREEN MAIN UNIT ONLY *
12	RED - YELLOW	REMOTE	BLACK

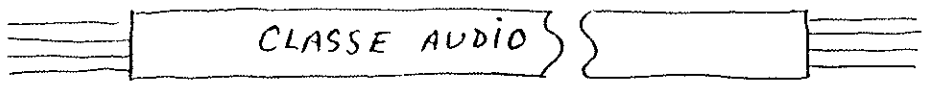
(WHITE - BLACK NOT USED)



OUTSIDE VIEW (CABLE CONNECTION END)

NOTES: STRIP CABLE 1"
STRIP EACH WIRE 1/8"
SHIELD: USE ALL STRANDS

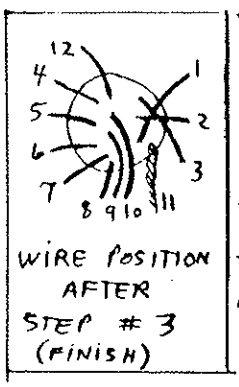




START

PROCEDURE

1- INSERT 1, 2, 3
2- MOVE RED-YELLOW OUT BETWEEN WHITE AND WHITE-GREEN.
3- INSERT 4, 5, 6, 7
4- INSERT 8, 9, 10
5- INSERT 12
6- MOVE SHIELD WIRE NEAR POSITION 11, AND RETWIST IF NECESSARY. CUT TO 1" LENGTH, INSTALL MOLEX AND INSERT INTO BLOCK IN POSITION 11.

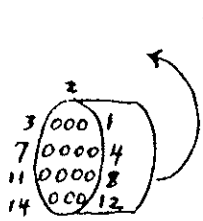


WIRE POSITION AFTER STEP # 3 (FINISH)

FINISH

PROCEDURE

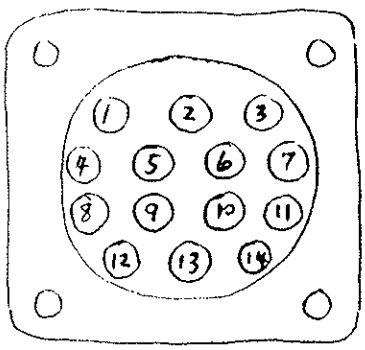
1- INSERT 1, 2, 3 THEN TWIST C.W.
2- MOVE RED-YELLOW OUT BETWEEN WHITE-ORANGE AND RED-ORANGE.
3- MOVE WHITE-GREEN, RED, RED-WHITE, AND SHIELD OUT BETWEEN WHITE AND WHITE-RED. (SEE DIAGRAM)
4- INSERT 4, 5, 6, 7
5- INSERT 8, 9, 10, 12.
6- MOVE SHIELD WIRE NEAR POSITION 11, AND RETWIST IF NECESSARY. CUT TO 1" LENGTH, INSTALL MOLEX AND INSERT INTO BLOCK IN 11.



TWIST C. AFTER INSERTIN 1, 2, 3

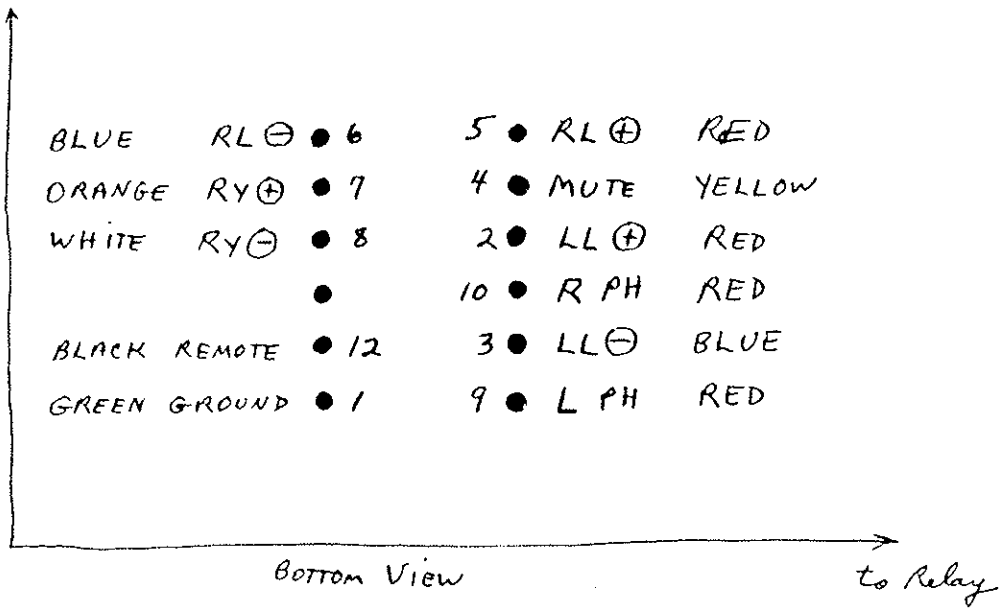
NEW DR-7 CONNECTOR FEMALE SOCKETS

P/S UNIT

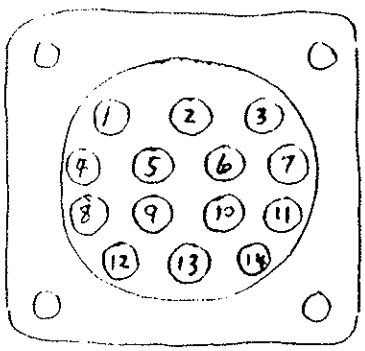


INSIDE VIEW

green red blue
yellow red blue orange
white red red
black

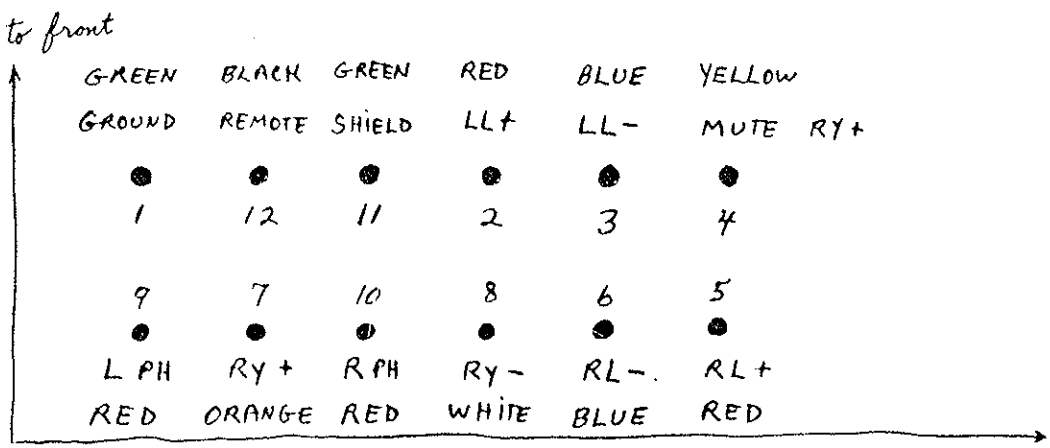


MAIN UNIT



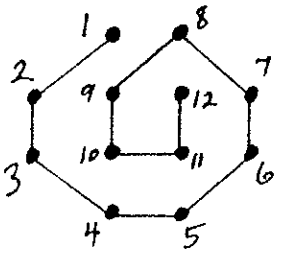
INSIDE VIEW

green red blue
yellow red blue orange
white red red green
black



DR-7 LEMO CABLE

MALE PLUG



BEGIN BY #12

1- WIRE PREPARATION AND SOLDERING IS SAME AS FOR SOCKETS.

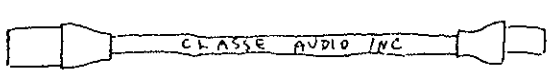
2- CONSTRUCTION AND FINISHING DETAILS ARE ON PAGE 2.

P/S UNIT END		FUNCTION
12	RED-YELLOW	REMOTE
11	SHIELD	SHIELD
10	RED-WHITE	RPH
9	RED	LPH
8	WHITE-GREEN	RY−
7	WHITE-RED	RY+
6	RED-BLACK	RL−
5	RED-GREEN	RL+
4	RED-ORANGE	MUTE RY+
3	WHITE-ORANGE	LL−
2	WHITE-YELLOW	LL+
1	WHITE	GROUND

MATERIALS

- LEMO CABLE
- 2 PLUG ASSEMBLIES
- 2" CLEAR PVC TUBING
- 2× $\frac{3}{8}$"ϕ × $\frac{1}{2}$" RED HEAT SH.
- 24× $\frac{1}{8}$"ϕ × $\frac{3}{8}$" CLEAR HEAT SH.
- 2× $\frac{1}{2}$"ϕ × $1\frac{1}{4}$" BLACK ADHESIVE HEAT SH.

MAIN UNIT END		FUNCTION
12	RED-YELLOW	REMOTE
11	SHIELD	SHIELD
10	RED-WHITE	RPH
9	RED	LPH
8	WHITE-YELLOW	LL+
7	WHITE-ORANGE	LL−
6	RED-ORANGE	MUTE RY+
5	RED-GREEN	RL+
4	RED-BLACK	RL−
3	WHITE-RED	RY+
2	WHITE-GREEN	RY−
1	WHITE	GROUND

P/S U. 

MAIN U.