

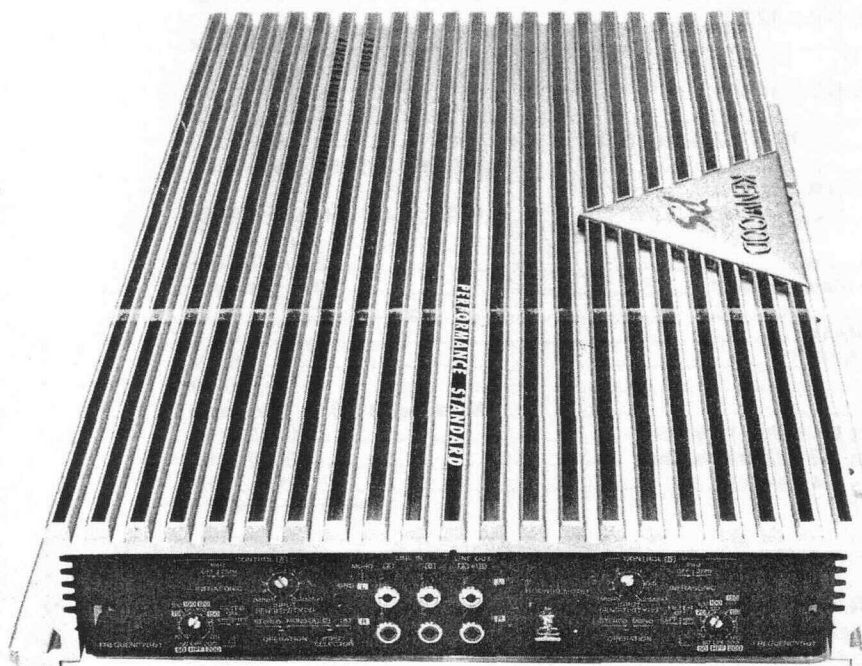
POWER AMPLIFIER

# KAC-PS500F

SERVICE MANUAL

# KENWOOD

© 1998-6 PRINTED IN KOREA  
B51-7353-00 (K) 3333



SCREW SET  
(N99-1664-05)



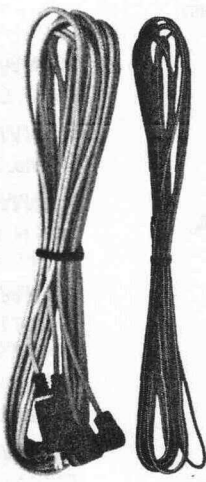
TERMINAL  
COVER SET  
(W01-0747-05)



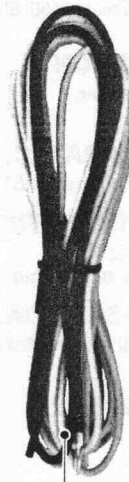
LEAD TERMINAL SET  
(W01-0746-05)



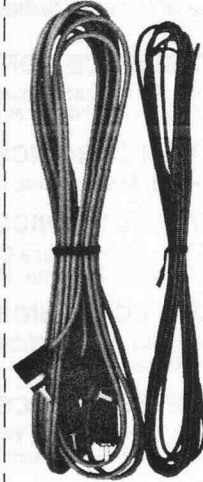
E and M type only



AUDIO CORD ASSY  
(E30-4067-05)



DC CORD ASSY  
(E30-4323-15)



AUDIO CORD ASSY  
(E30-4067-05)

M type only

# KAC-PS500F

## SPECIFICATIONS

**Specifications subject to change without notice.**

### Audio Section

Max Power Output (4  $\Omega$ )  
4 Channel Mode ..... 150 W  $\times$  4  
3 Channel Mode ..... 150 W  $\times$  2 + 600 W  $\times$  1  
2 Channel Mode ..... 600 W  $\times$  2

Rated Power Output (4  $\Omega$ ) (+B = 12.0 V)  
4 Channel Mode ..... 50 W  $\times$  4 (20 Hz ~ 20 kHz, 0.05 % THD)  
3 Channel Mode ..... 50 W  $\times$  2 (1 kHz, 0.05 % THD) + 200 W  $\times$  1 (1 kHz, 0.5 % THD)  
2 Channel Mode ..... 200 W  $\times$  2 (1 kHz, 0.5 % THD)

Rated Power Output (2  $\Omega$ ) (+B = 12.0 V)  
4 Channel Mode ..... 100 W  $\times$  4 (1 kHz, 0.5 % THD)

Rated Power Output (4  $\Omega$ ) (+B = 14.4 V)  
4 Channel Mode ..... 75 W  $\times$  4 (20 Hz ~ 20 kHz, 0.05 % THD)  
3 Channel Mode ..... 75 W  $\times$  2 (1 kHz, 0.05 % THD) + 300 W  $\times$  1 (1 kHz, 0.5 % THD)  
2 Channel Mode ..... 300 W  $\times$  2 (1 kHz, 0.5 % THD)

Rated Power Output (2  $\Omega$ ) (+B = 14.4 V)  
4 Channel Mode ..... 150 W  $\times$  4 (1 kHz, 0.5 % THD)

Frequency Response (+0, -1 dB) ..... 5 Hz ~ 50 kHz  
Total Harmonic Distortion (Rated power)\* ..... 0.010 % (1 kHz)  
Signal to Noise Ratio ..... 110 dB  
Sensitivity (rated output) (MAX) ..... 0.2 V  
(MIN) ..... 5.0 V  
Input Impedance ..... 10 k $\Omega$   
Damping Factor ..... More than 1000 (at  $\Sigma$  connect)  
Low Pass Filter Frequency (24 dB/oct.) (Variable) ..... 50 ~ 200 Hz  
High Pass Filter Frequency (12 dB/oct.) (Variable) ..... 50 ~ 200 Hz  
Infrasonic Filter Frequency (24 dB/oct.) ..... 15 / 25 Hz

\* Sensitivity = Min. Through LPF -20 dB

### General

Operating Voltage ..... 12.0 V (11 ~ 16 V allowable)  
Current Consumption (4  $\Omega$ , +B = 12.0 V, 10% THD) ..... 42 A  
Dimensions (W  $\times$  H  $\times$  D) ..... 272  $\times$  58  $\times$  450 mm  
10-11/16  $\times$  2-5/16  $\times$  17-11/16 in.  
Weight ..... 7.0 kg  
15.4 lbs

## KENWOOD CORPORATION

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46300 Petaling Jaya, Selangor, Malaysia

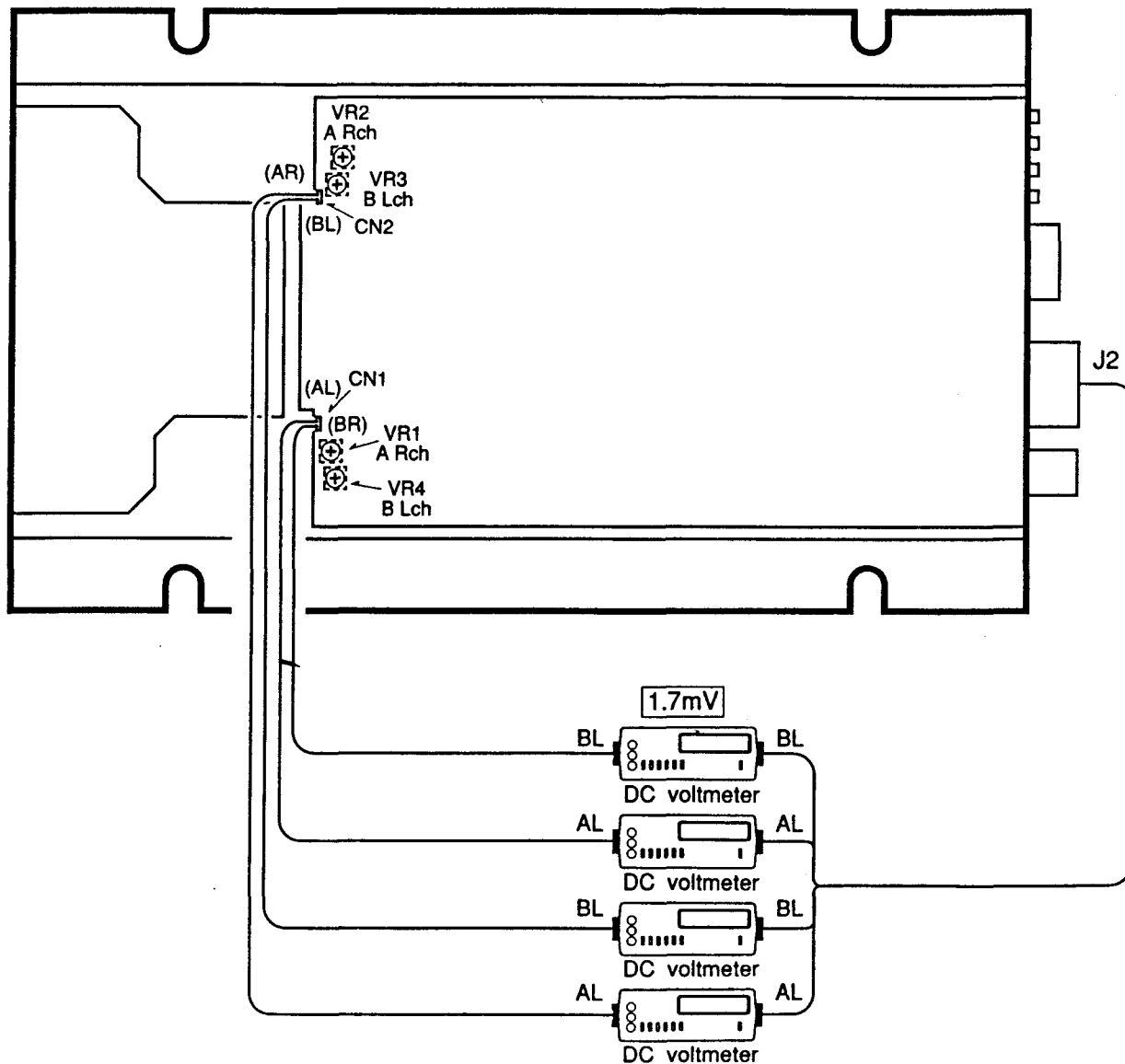
# KAC-PS500F

## ADJUSTMENT

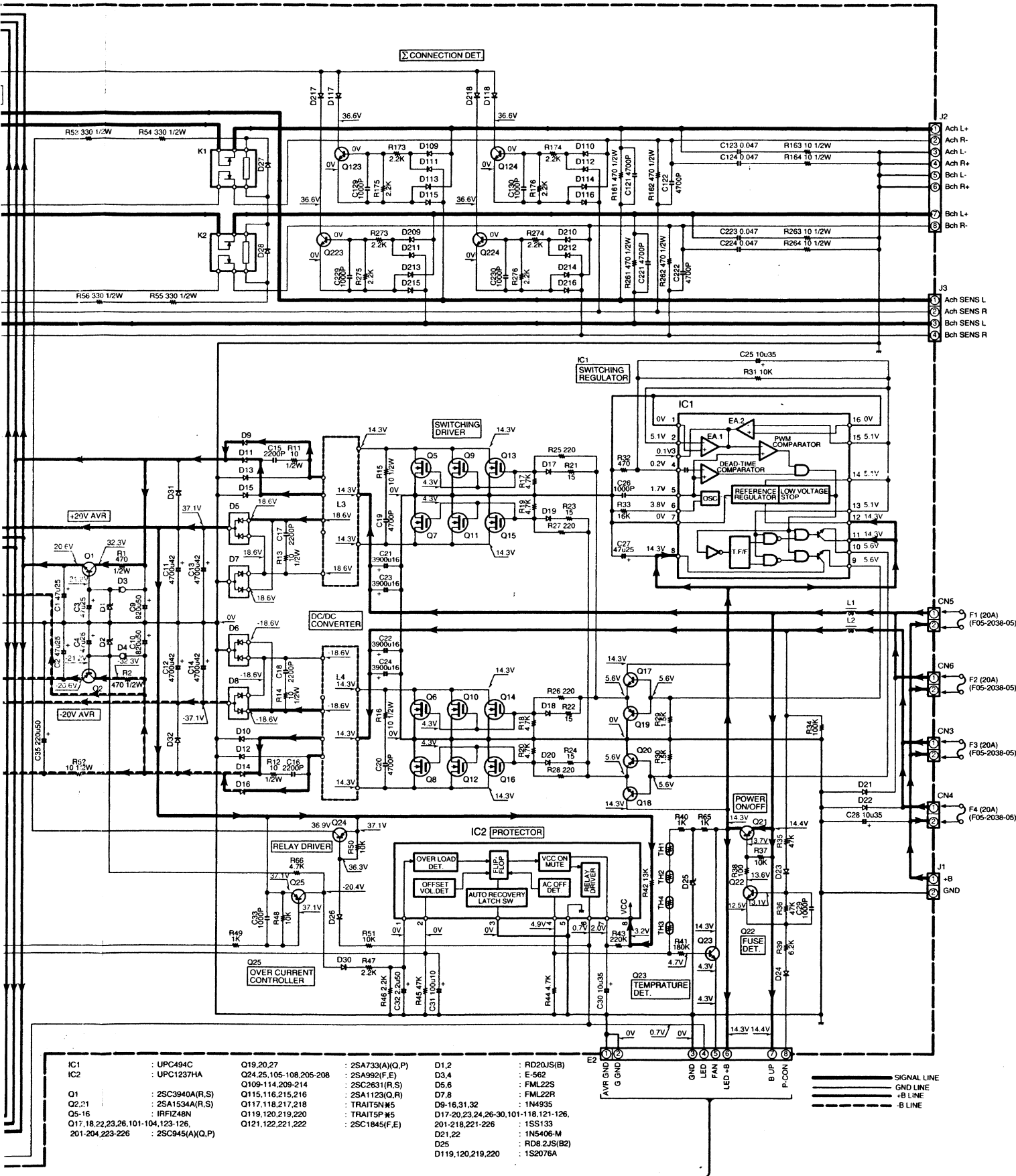
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Connect a cassette receiver or CD receiver.							
1	IDEL CURRENT	-	Connect a DC voltmeter between CN1-J2 and CN2-J2	VOLUME : 0	VR1-4 (X09-)	1.7mV	-

### ADJUSTMENT POINT VIEW

(BOTTOM VIEW)

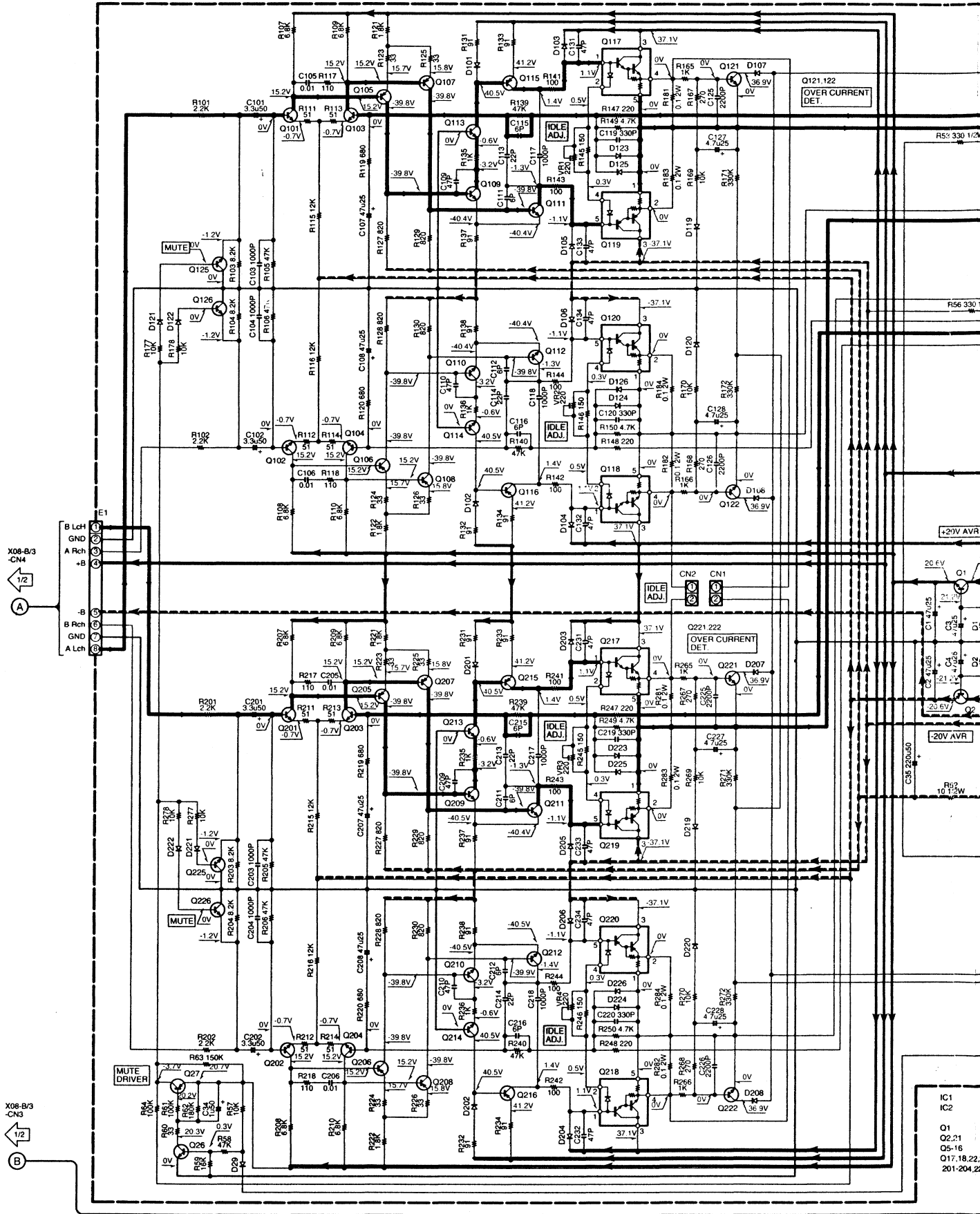


idle current : 1.7mV



**KAC-PS500F**  
**KENWOOD**

AUDIO UNIT (X09-5240-10)



1

2

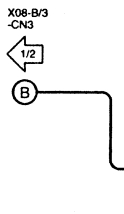
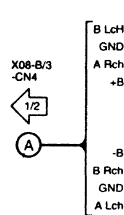
3

4

5

6

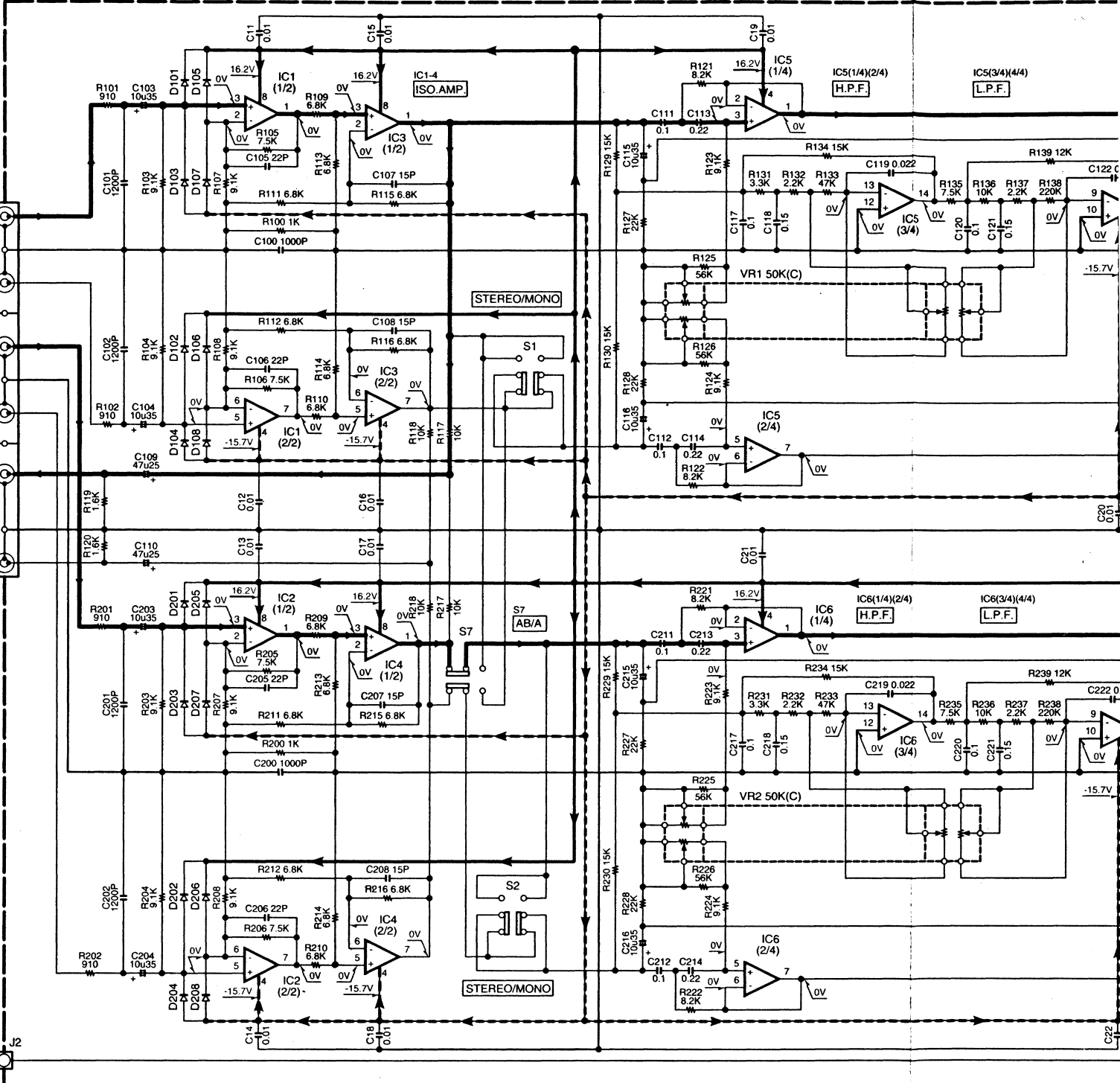
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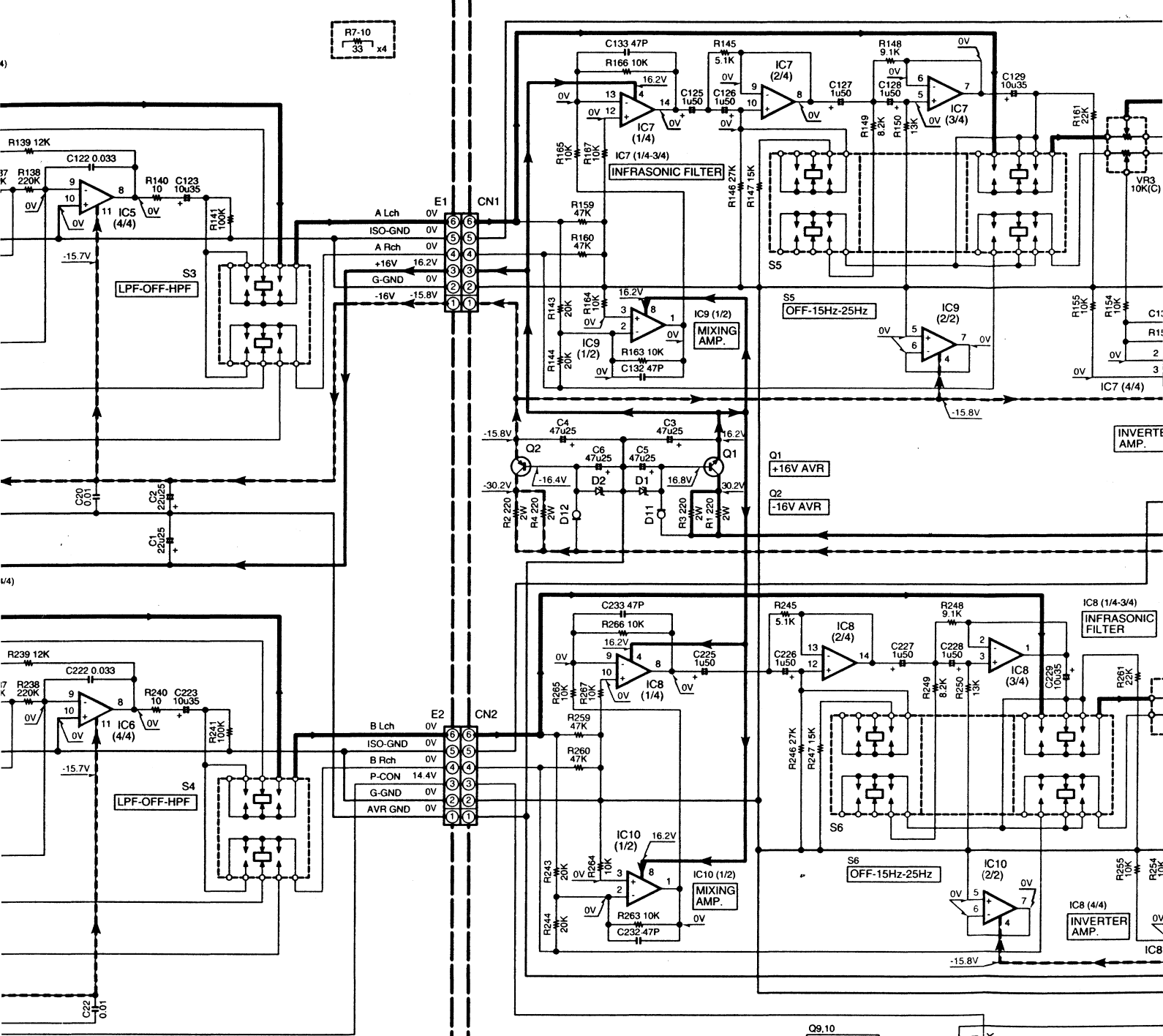


- IC1
- IC2
- Q1
- Q2,21
- Q5-16
- Q17,18,22,
- 201-204,22

PREAMPLIFIER UNIT (X08-4040-10) (A/3)

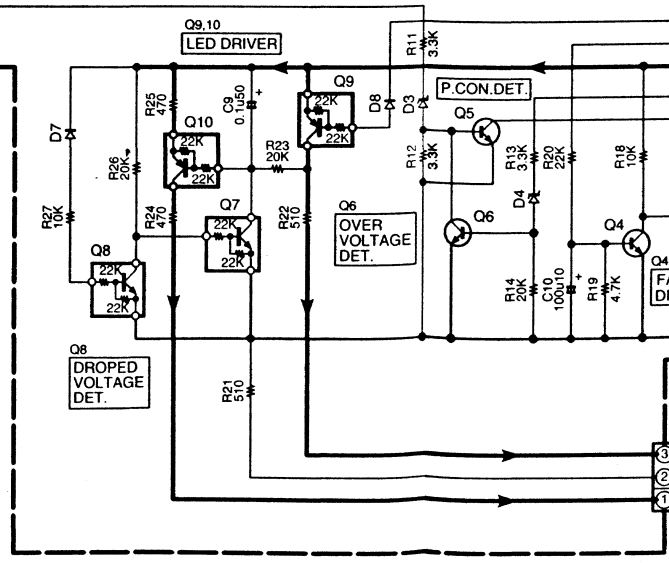
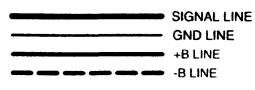
J1  
Ach  
L  
R  
Bch  
L  
R  
OUT  
L  
R  
J2  
P-CON

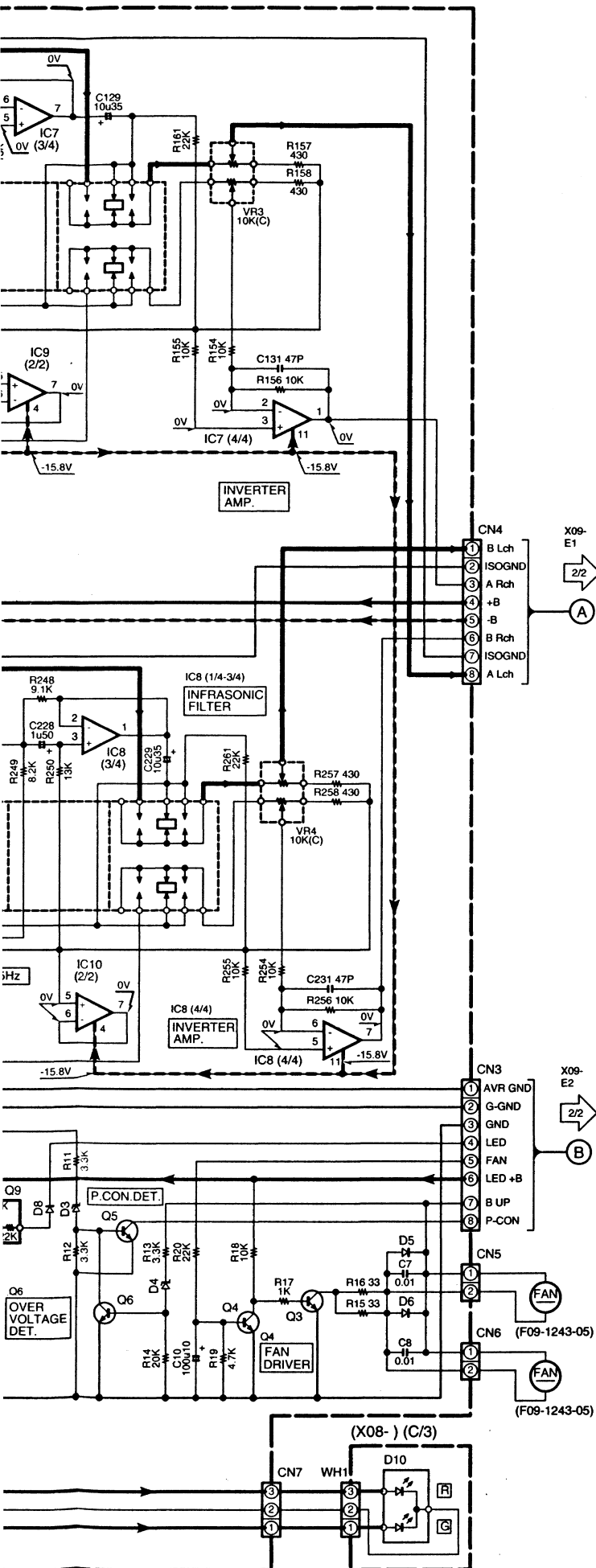




R7-10  
33 x4

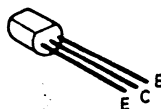
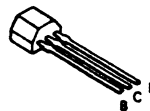
- IC1-4 : NJM5532D
- IC5-8 : UPC4574C
- IC9,10 : NJM4565D
- Q1 : 2SC4883A \* A
- Q2 : 2SA1859A \* A
- Q3 : 2SC3940A(R,S)
- Q4-6 : 2SC945(A)(Q,P)
- Q7,8 : DTC124ESA
- Q9,10 : DTA124ESA
- D1,2,4 : RD16JS(B2)
- D3 : RD7.5JS(B)
- D5,6,8,101-108,201-208 : 1SS133
- D7 : RD10JS(B2)
- D10 : B30-1384-05
- D11,12 : E-562





2SA1123  
 2SA1534A  
 2SA733(A)  
 2SA992  
 2SC1845  
 2SC2631  
 2SC3940A  
 2SC945(A)

DTA124ESA  
 DTC124ESA



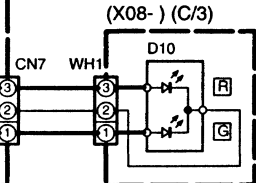
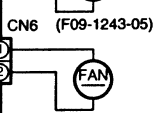
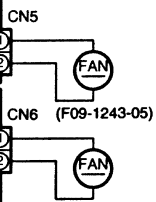
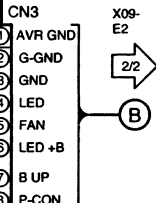
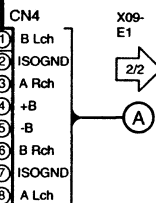
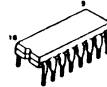
NJM4565D  
 NJM5532D

UPC4574C



UPC494C

UPC1237HA



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