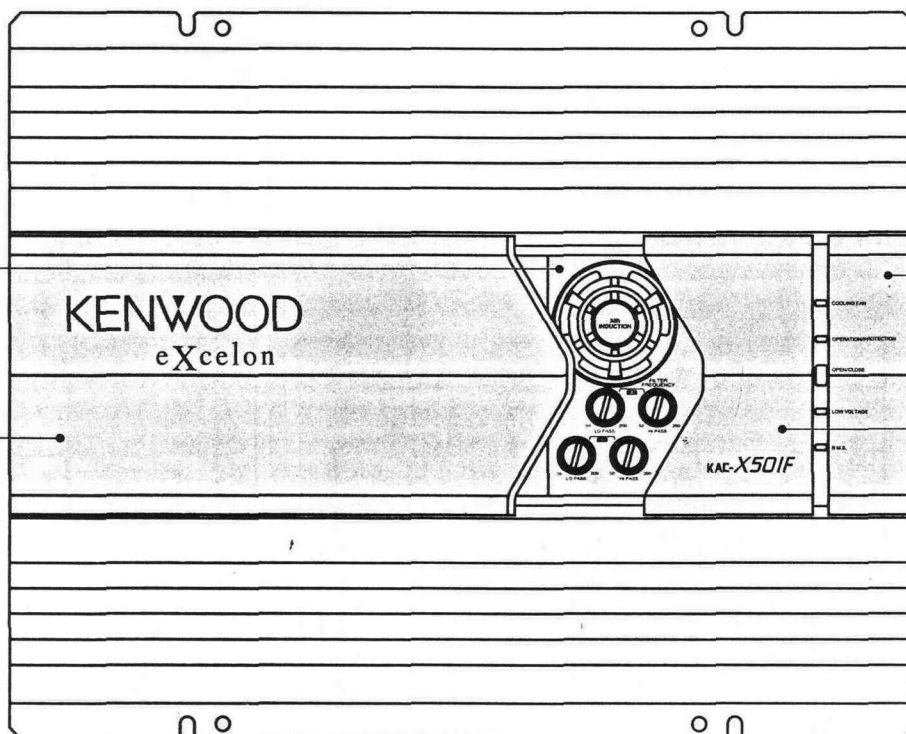
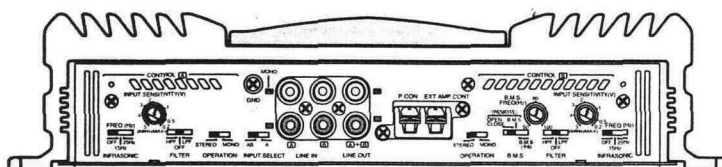
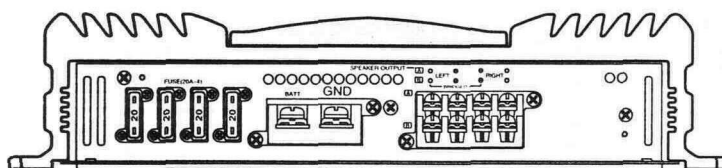
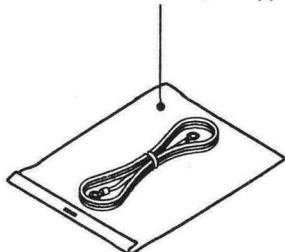
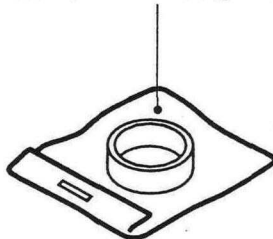
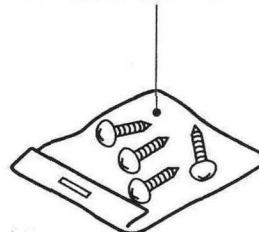


## KAC-PS501F/X501F

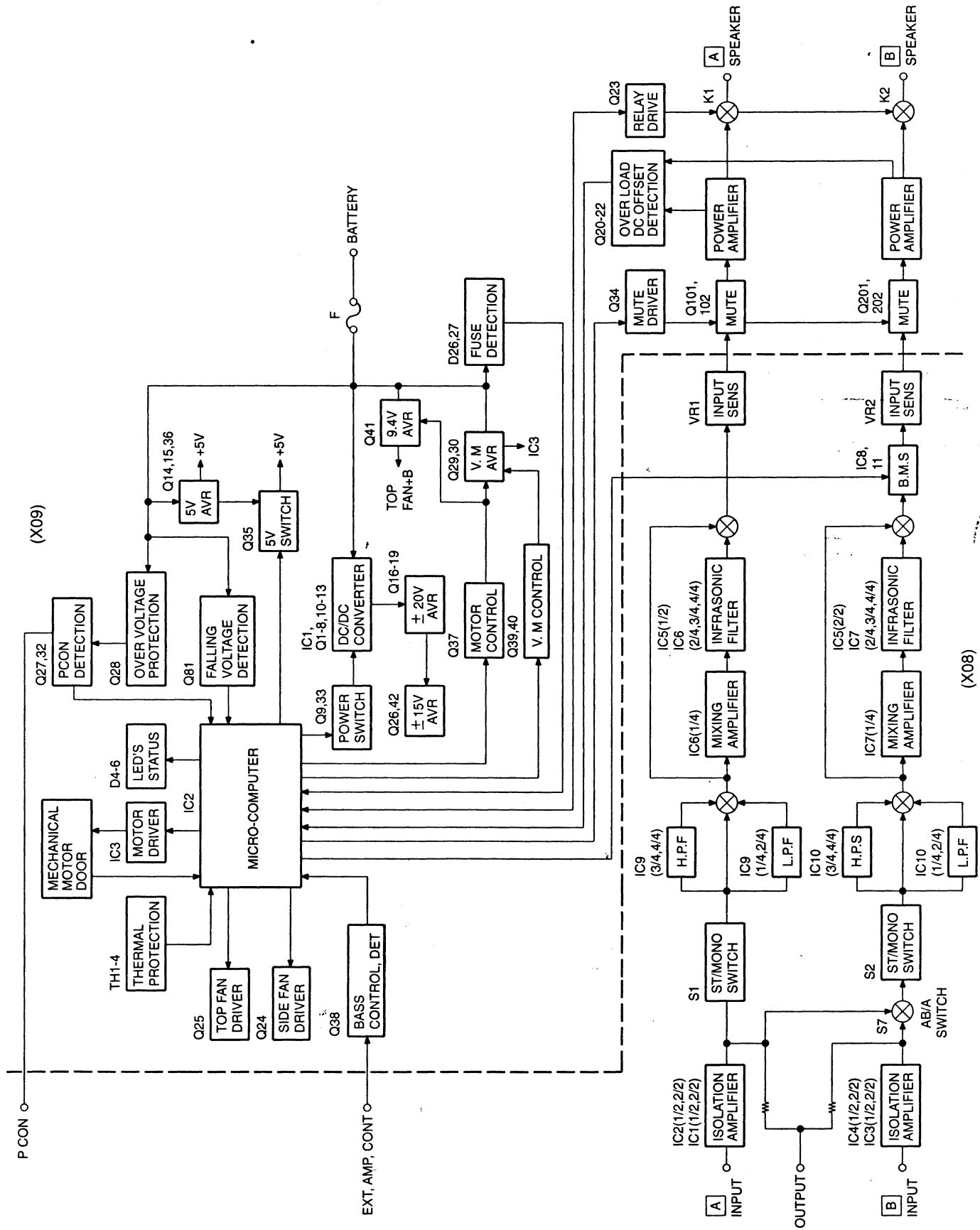
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## SERVICE MANUAL

サービスマニュアル

© 1999-4 PRINTED IN JAPAN  
B51-7475-00 (N) 3478KAC-X501F  
: K typeKAC-PS501F  
: E,J,M typePanel  
(A64-1773-01)Panel  
(A64-1771-02)  
: KAC-X501F  
(A64-1772-02)  
: KAC-PS501FPanel  
(A64-1759-02)Panel  
(A64-1774-03)  
: KAC-X501F  
(A64-1775-03)  
: KAC-PS501FDC cord assy  
(E30-4341-05) : J typeTerminal cover set  
(W01-0747-05)Screw set  
(N99-1577-15)

## BLOCK DIAGRAM / ブロックダイアグラム



## CIRCUIT DESCRIPTION

System  $\mu$ -com : TMP87C847U4C84 (X09-5290-10 : IC2)

## Terminal description

Pin No.	Pin Name	Function	I/O	Description	Processing Operation
1	SCK/P73	MOTER_2	O	Panel motor control 2 (M2)	Stop when M1 and M2 are "L".
2	PDO/PWM/P72	MOTER_1	O	Panel motor control 1 (M1)	Forward when M1 is "L" and M2 is "H". Reverse when M1 and M2 are "H".
3	INT4/P71	SIDE_FAN	O	Side fan rotation control	Active "H"
4	INT3/TC3/P70	TOP_FAN	O	Ceiling fan rotation control	Active "H"
5	P07	PROTECT	I	Protection detection	Active "H"
6	P06	V_DOWN	I	Voltage down detection	Active "H"
7	P05	SIGMA	I	$\Sigma$ drive protection	Not used.
8	P04	VM_POWER	O	Panel motor power supply	Active "H"
9	P03	LED_COOL	O	LED indicator output (cooling fan)	Active "L"
10	P02	LED_DRPR	O	LED indicator output (drive protection)	Active "L"
11	P01	LED_VOLT	O	LED indicator output (voltage down)	Active "L"
12	P00	LED_BASS	O	LED indicator output (bass boost)	Active "L"
13	TEST				Not used.
14	RESET	RESET		Reset pin	
15	XIN	XIN		Oscillator connection pin	
16	XOUT	XOUT		Oscillator connection pin	
17	VSS (VASS)	VSS		GND	
18	VAREF	V_REF		A/D reference	
19	AIN0/P60	TH1	I	Temperature detection 1 (A/D input)	
20	AIN1/P61	TH2	I	Temperature detection 2 (A/D input)	
21	AIN2/P62	TH3	I	Temperature detection 3 (A/D input)	
22	AIN3/P63	TH4	I	Temperature detection 4 (A/D input)	
23	AIN4/P64	MUTE_CON	O	Mute control	Active "L"
24	AIN5/P65	BASS_SW1	I	Amp. bass boost switch input 1	Active "H"
25	AIN6/P66	BASS_SW2	I	Amp. bass boost switch input 2	Active "H"
26	AIN7/P67	BASS_SW3	I	Amp. bass boost switch input 3	Active "H"
27	P50				N.C
28	P51	+5V_SW	O	Low current control	Active "L"
29	INT0/P10	RELAY_CON	O	Relay control	Active "H"
30	INT1/P11	POWER	O	Amp. power control	Active "H"
31	INT2/TC1/P12	COM_HU	I	Pulse measurement from H/U communications	
32	DVO/P13	MOTER_END	O	Motor voltage control	"H" at high speed, "L" at low speed
33	PPG/P14	BASS_CON1	O	Bass boost control 1 (C1)	Boost off when C1 and C2 are "L".
34	TC2/P15	BASS_CON2	O	Bass boost control 2 (C2)	Boost low when C1 is "H" and C2 is "L". Boost high when C1 is "L" and C2 is "H".
35	P16	FUSE_1	I	Fuse 1 detection	Active "L"
36	P17	FUSE_2	I	Fuse 2 detection	Active "L"
37	INT5/STOP/P20	STANBY	I	Release of stop mode by P. CON. on (external interruption)	P. CON turns on when "H". P. CON turns off when "L".
38	XTIN/P21	XTIN			N.C
39	XTOUT/P22	XTOUT			N.C
40	VDD	VDD		Power supply (+5V)	
41	HSO/P77	CLOSE END	I	Panel closing completed detection	Active "H"
42	HSCK/P76	OPEN END	I	Panel opening completed detection	Active "H"
43	SO/P75	OPEN/CLOSE_SW	I	Open/close switch	Active "H"
44	SI/P74	A_CLASS	O		N.C

# KAC-PS501F/X501F

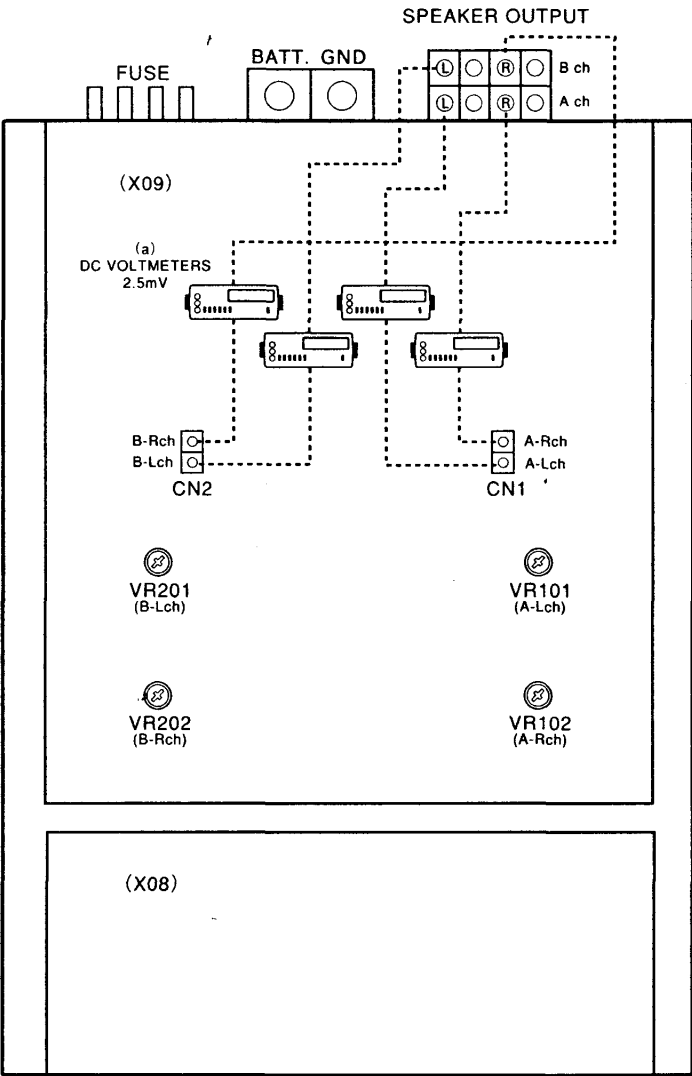
## ADJUSTMENT / 調整

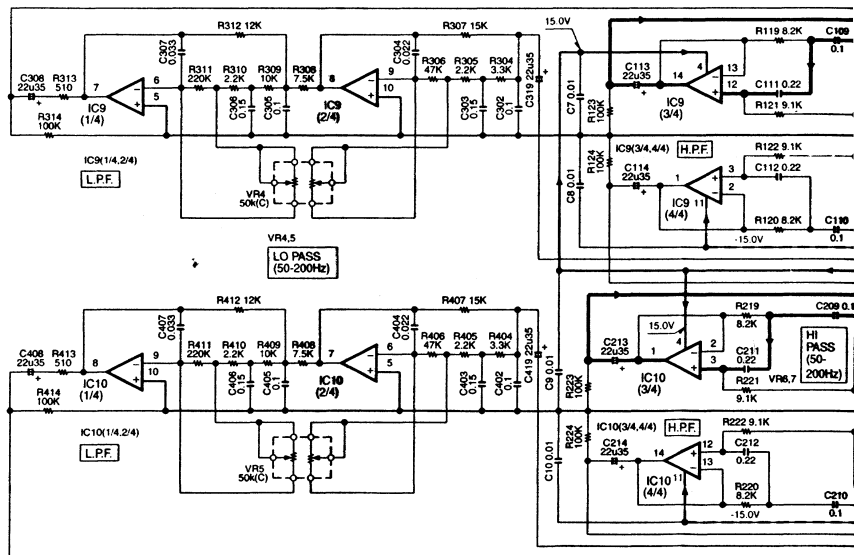
### ADJUSTMENT

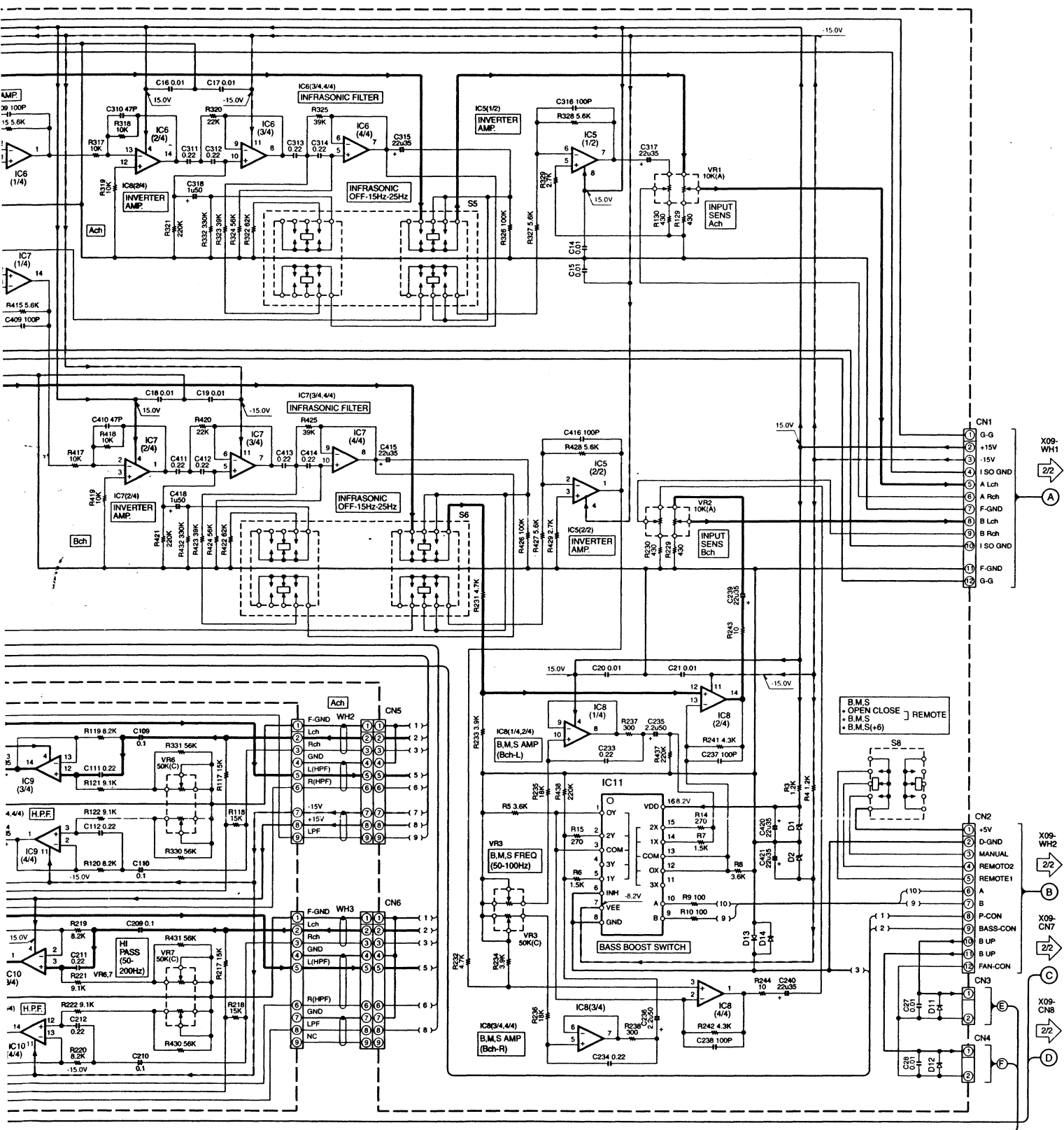
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER	ALIGNMENT POINTS	ALIGN FOR	FIG.
Connect a cassette receiver or other receiver.							
1	IDLE CURRENT	-	Connect a DC voltmeter to CN1, CN2 and SP-OUT.	Volume : 0	VR101, 102 VR201, 202	After sufficient aging adjust to 2.5mV	(a)

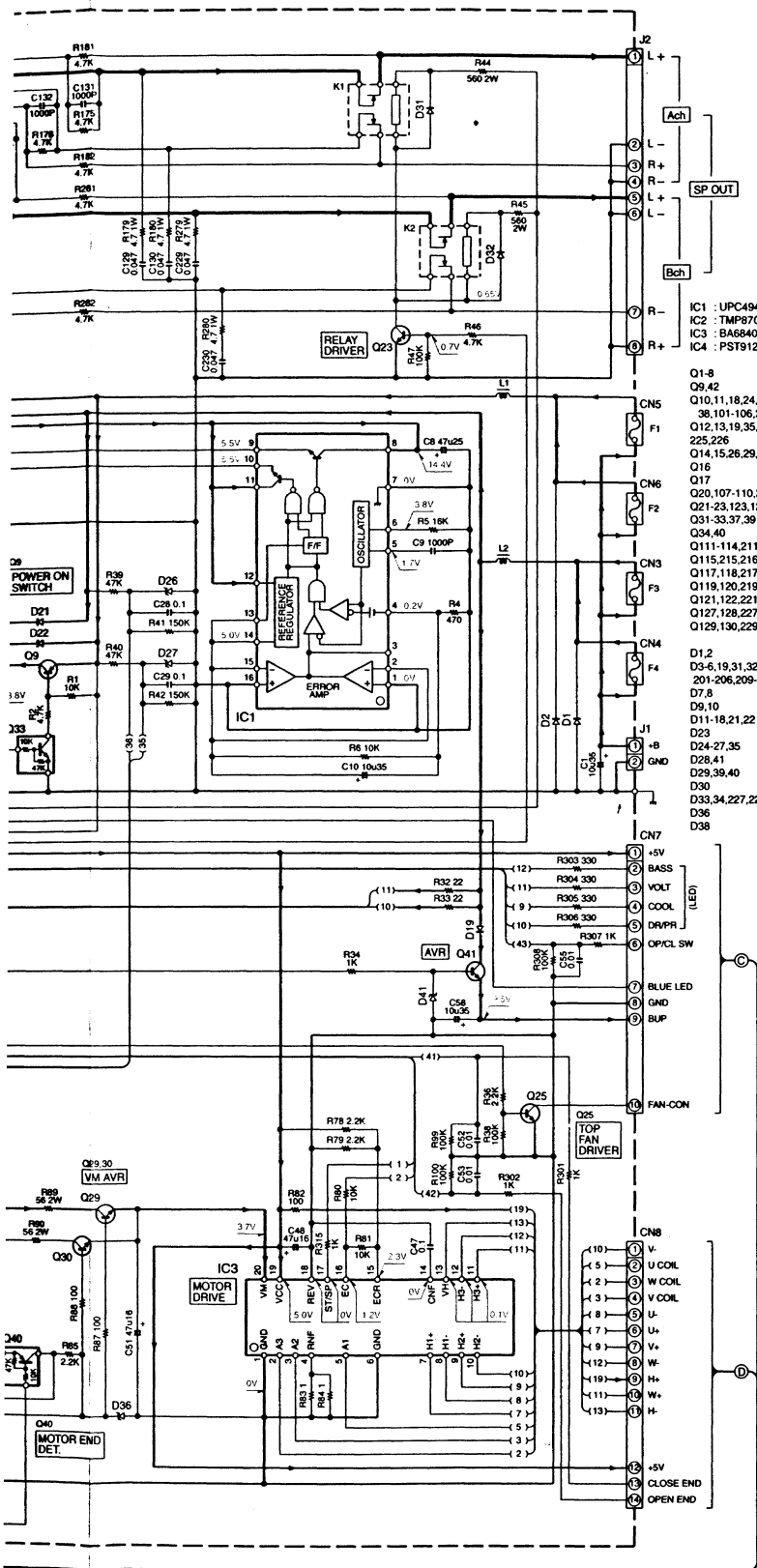
### 調整

No.	項目	入力側 セッティング	出力側 セッティング	レシーバー	調整箇所	調整方法	図
カセットレシーバーまたはその他のレシーバーを接続。							
1	アイドリング電流	-	CN1、CN2とSP-OUT間にDC電圧計を接続	ボリューム：0	VR101, 102 VR201, 202	エージング後2.5mVに調整する	(a)



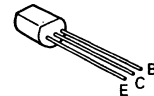




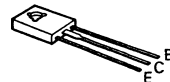


2SA1123  
2SA1534A  
2SA733(A)  
2SA965  
2SA992

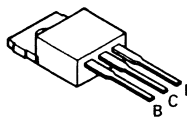
2SC1845  
2SC2235  
2SC2631  
2SC3940A  
2SC945(A)



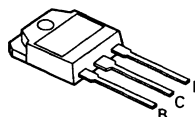
2SC2590



2SB1565  
2SD2396



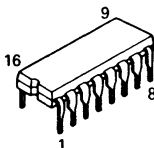
2SA1303\*5  
2SC3284\*5



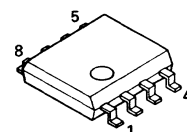
DTA114YK  
DTC114YK



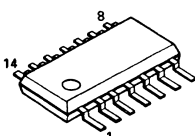
TC4052BF



NJM5532MD  
UPC4570G2



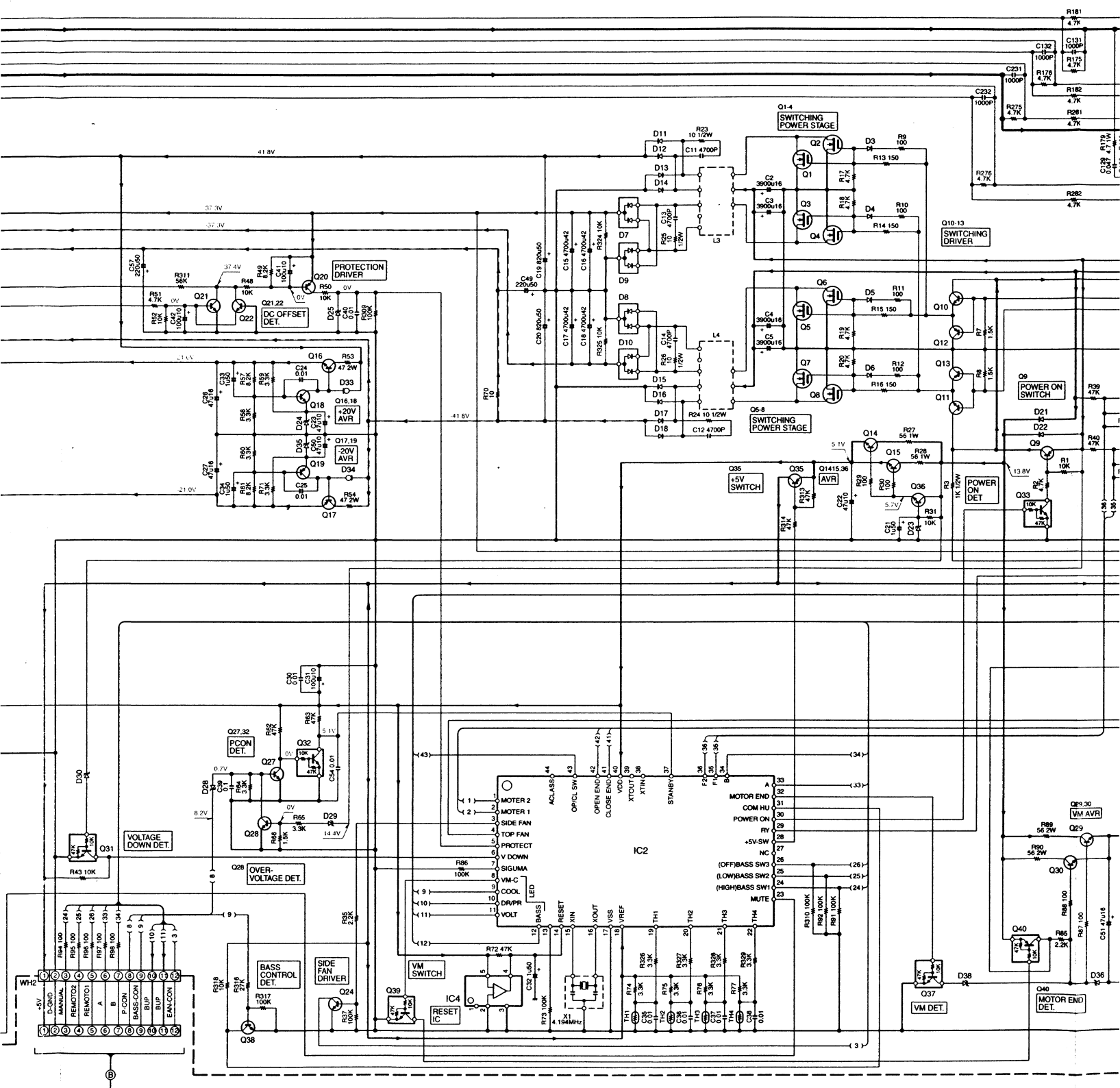
NJM2060M



注) DC電圧はハイインピーダンス型の電圧計で計った数値です。値は使用測定器又は製品により多少異なることがあります。

△印の部品は、安全上重要な部品です。交換をする時は、必ず指定の部品をご使用下さい。この回路図は基本のものです。製品により異なる場合があります。

**KAC-PS501F/X501F**  
**KENWOOD**



**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.



(X09-5290-10)

