

POWER AMPLIFIER

KAC-PS301T/X301T

SERVICE MANUAL

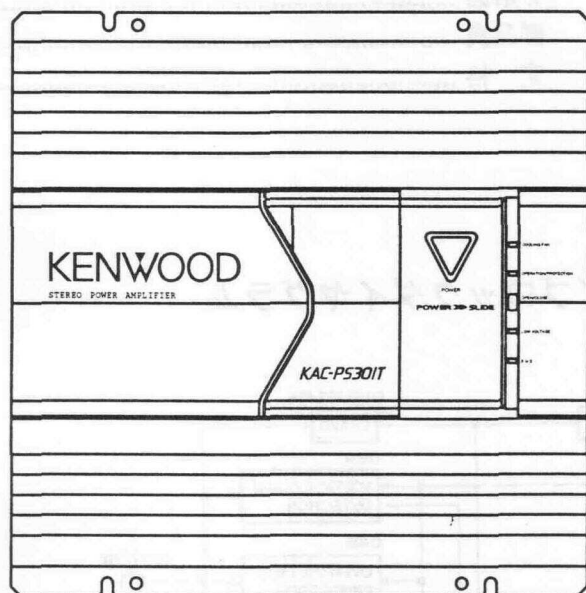
サービスマニュアル

KENWOOD

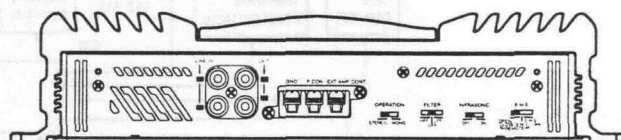
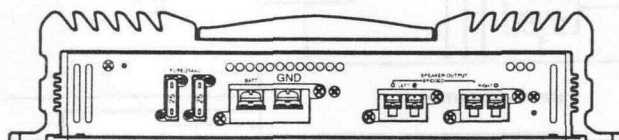
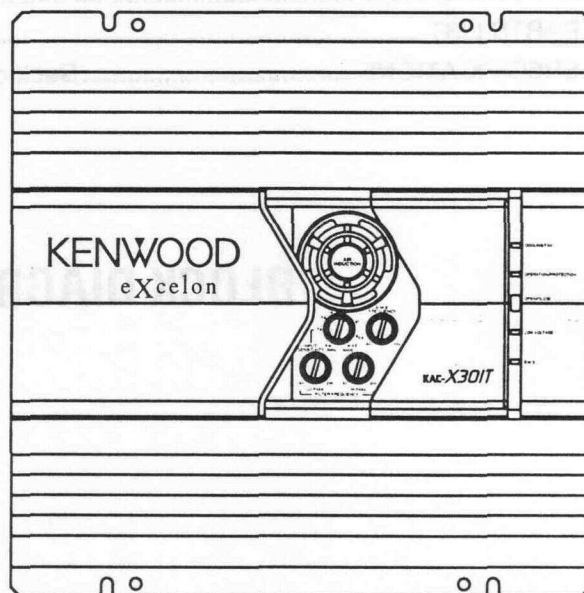
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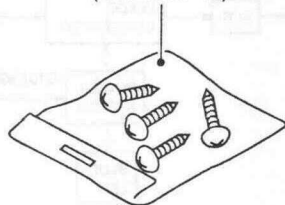
KAC-PS301T(J)(E)(M)



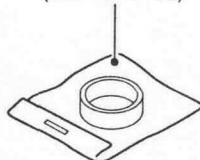
KAC-X301T(K)



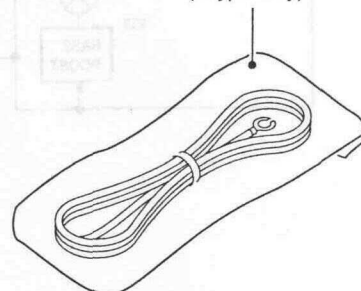
Screw set
(N99-1577-15)



Accessory
(W01-0747-05)



DCコードASSY
(E30-4341-05)
(J type only)



KAC-PS301T/X301T

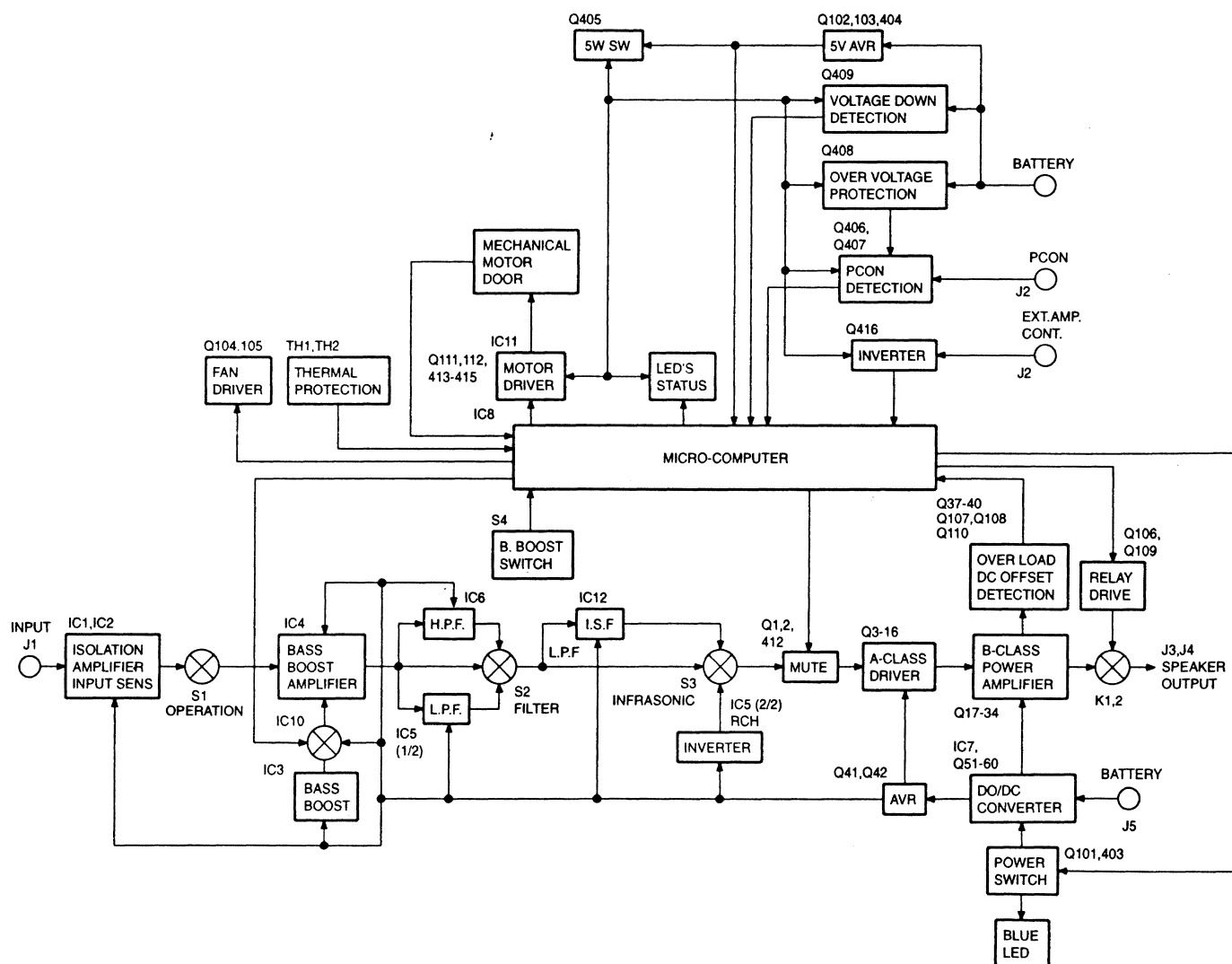
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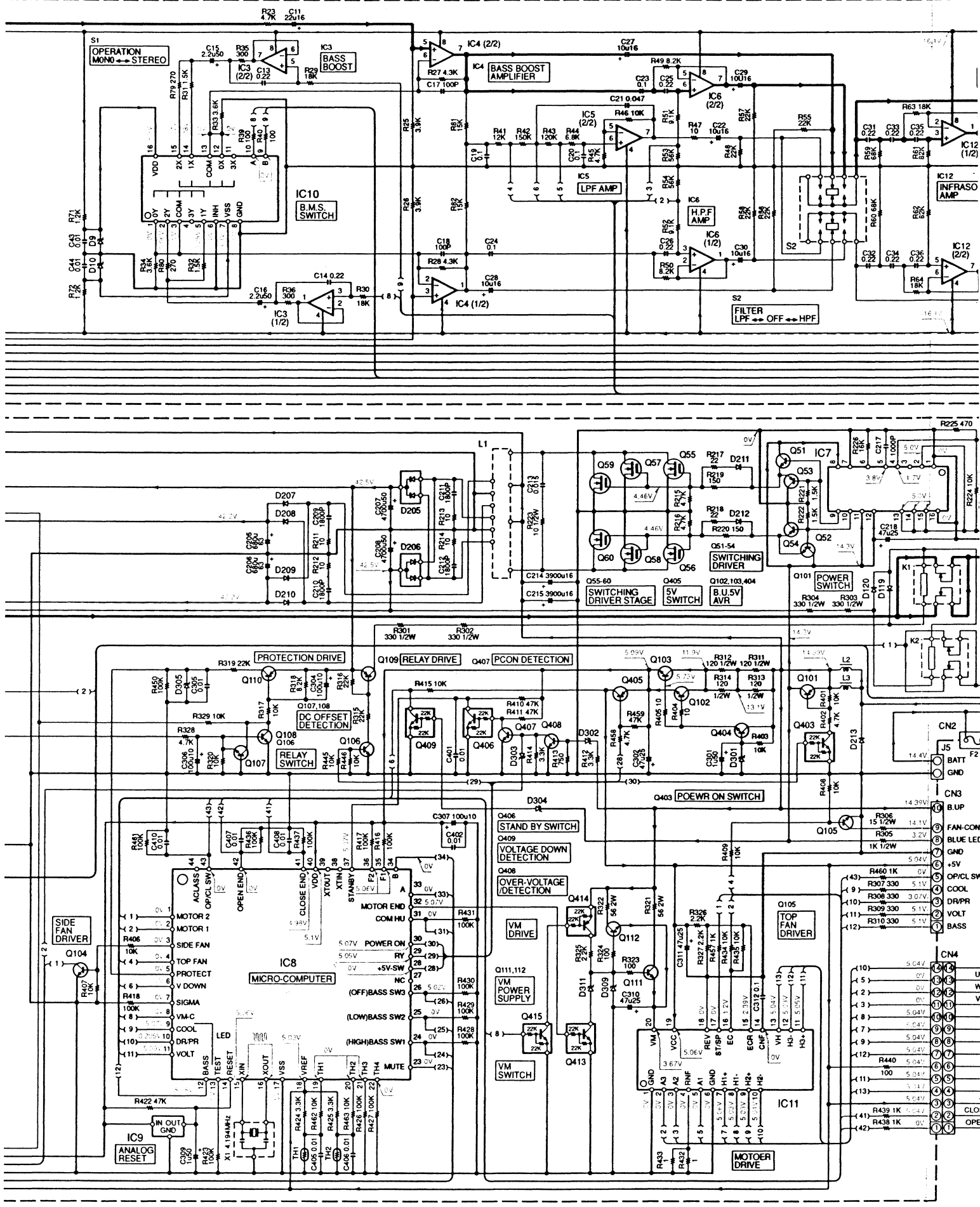
BLOCK DIAGRAM／ブロックダイアグラム



MICROCOMPUTER'S TERMINAL DESCRIPTION

● Terminal Description

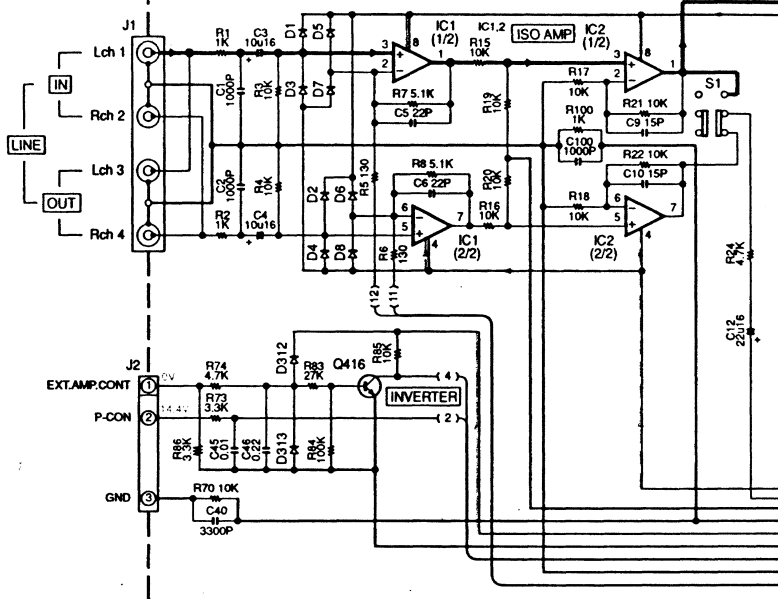
Pin No.	Pin Name	I/O	Description	Processing Operation
1	MOTOR 2	O	Panel motor control 2 (M2)	Stop ... (M1,M2)=("L","L") Forward ... (M1,M2)=("L","H") Reverse ... (M1,M2)=("H","H")
2	MOTOR 1	O	Panel motor control 1 (M1)	
3	SIDE FAN	O	Side fan rotation control	Active "H"
4	TOP FAN	O	Ceiling fan rotation control	Active "H"
5	PROTECT	I	Protection detection	Active "H"
6	V DOWN	I	Voltage down detection	Active "H"
7	SIGMA	I	Σ drive protection	Not used(Pull down to GND)
8	VM C	O	Panel motor power supply	Active "H"
9	LED COOL	O	LED indicator output (cooling fan)	Active "L"
10	LED DR/PR	O	LED indicator output (drive protection)	Active "L"
11	LED VOLT	O	LED indicator output (voltage down)	Active "L"
12	LED BASS	O	LED indicator output (bass boost)	Active "L"
13	TEST			Not used(Pull down to GND)
14	RESET		Reset pin	Active "L"
15	XIN		Main clock connection pin	
16	XOUT		Main clock connection pin	
17	VSS	—	GND pin	
18	VREF		A/D reference	
19	TH1	I	Temperature detection 1 (A/D input)	
20	TH2	I	Temperature detection 2 (A/D input)	
21	TH3	I	Temperature detection 3 (A/D input)	Not used(Pull down to GND)
22	TH4	I	Temperature detection 4 (A/D input)	Not used(Pull down to GND)
23	MUTE	O	Mute control	Active "L"
24	(HIGH)BASS SW1	I	Amp. bass boost switch input 1	Active "H"
25	(LOW)BASS SW2	I	Amp. bass boost switch input 2	Active "H"
26	(OFF)BASS SW3	I	Amp. bass boost switch input 3	Active "H"
27	NC			N.C
28	+5V-SW	O	Low current control	Active "L"
29	RY	O	Relay control	Active "H"
30	POWER ON	O	Amp. power control	Active "H"
31	COM HU	I	Pulse measurement from H/U communications	
32	MOTOR END	O	Motor voltage control	"H" at high speed "L" at low speed
33	A	O	Bass boost control 1 (A)	Boost OFF ... (A,B)=("L","L") Boost Low ... (A,B)=("H","L") Boost Hi ... (A,B)=("H","H")
34	B	O	Bass boost control 2 (B)	
35	F1	I	Fuse 1 detection	Active "L"
36	F2	I	Fuse 2 detection	Active "L"
37	STANDBY	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		External clock connection pin	N.C
39	XTOUT		External clock connection pin	N.C
40	VDD	—	Power supply pin(+5V)	
41	CLOSE END	I	Panel closing completed detection	Active "H"
42	OPEN END	I	Panel opening completed detection	Active "H"
43	OP/CL SW	I	Open/close switch	Active "H"
44	A CLASS	O	A class control	N.C



(X09-5310-10) (B/2)

— SIGNAL LINE
 — GND LINE
 — B LINE
 — B LINE

IC1,2,4,5 : NUM5532MD	Q1,2,51,52 : 2SC945(A)(Q,P)
IC3,6,12 : NUM4565M	Q3-6,37,38,106-108 : 2SC1845(F,E)
IC7 : UPC494GS	
IC8 : TMP87C847U4C84	Q7-10,39,40,109,110 : 2SA992(F,E)
IC9 : PST9125NR	Q11-14 : 2SC2631(Q,R)
IC10 : TC4052BF	Q15,16 : 2SA1123(Q,R)
IC11 : BA6840BFS	Q17,18 : 2SA2590(Q,R)
	Q19-22 : 2SC2235
D1-8,11,12,101-114,117-124,211,212,310,312,313 : 1SS133	Q23-26 : 2SA965
D9,10 : RD8.2JS(B)	Q27,28,31,32 : 2SC4467*5
D13,14 : RD16JS(B)	Q29,30,33,34 : 2SA1694*5
D201,202 : RD20JS(B)	Q41 : 2SC4883A
D203,204 : E-562	Q42 : 2SA1859A
D205 : FML22S	Q53,54,405 : 2SA733(A)(Q,P)
D206 : FML22R	Q55-60 : MTAJ50N05HD
D207-210 : 1N4935	Q101 : 2SA1534A(R,S)
D213 : 1N5406-M	Q102-105,111,112 : 2SC3940A(R,S)
D301 : RD6.2JS(B)	Q403,406,409,413,415 : DTC124EK
D302 : RD15JS(B)	Q404,407,408,416 : 2SC2412K
D303 : RD7.5JS(B)	Q412,414 : DTA124EK
D304 : RD10JS(B)	
D305 : RD5.1JS(B)	
D309 : RD4.7JS(B)	
D311 : RD3.9ES(B2)	



(X09-5310-10) (A/2)

