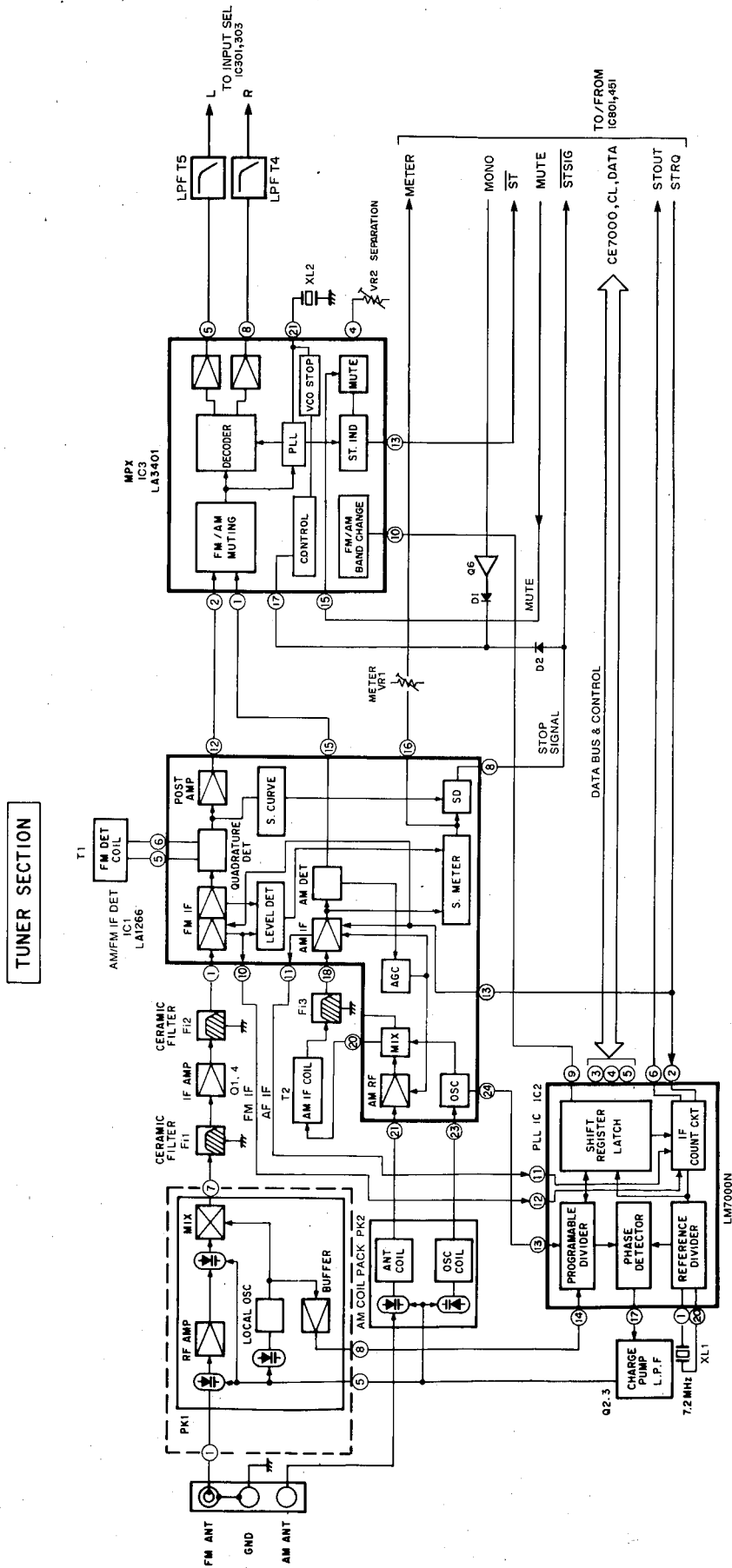
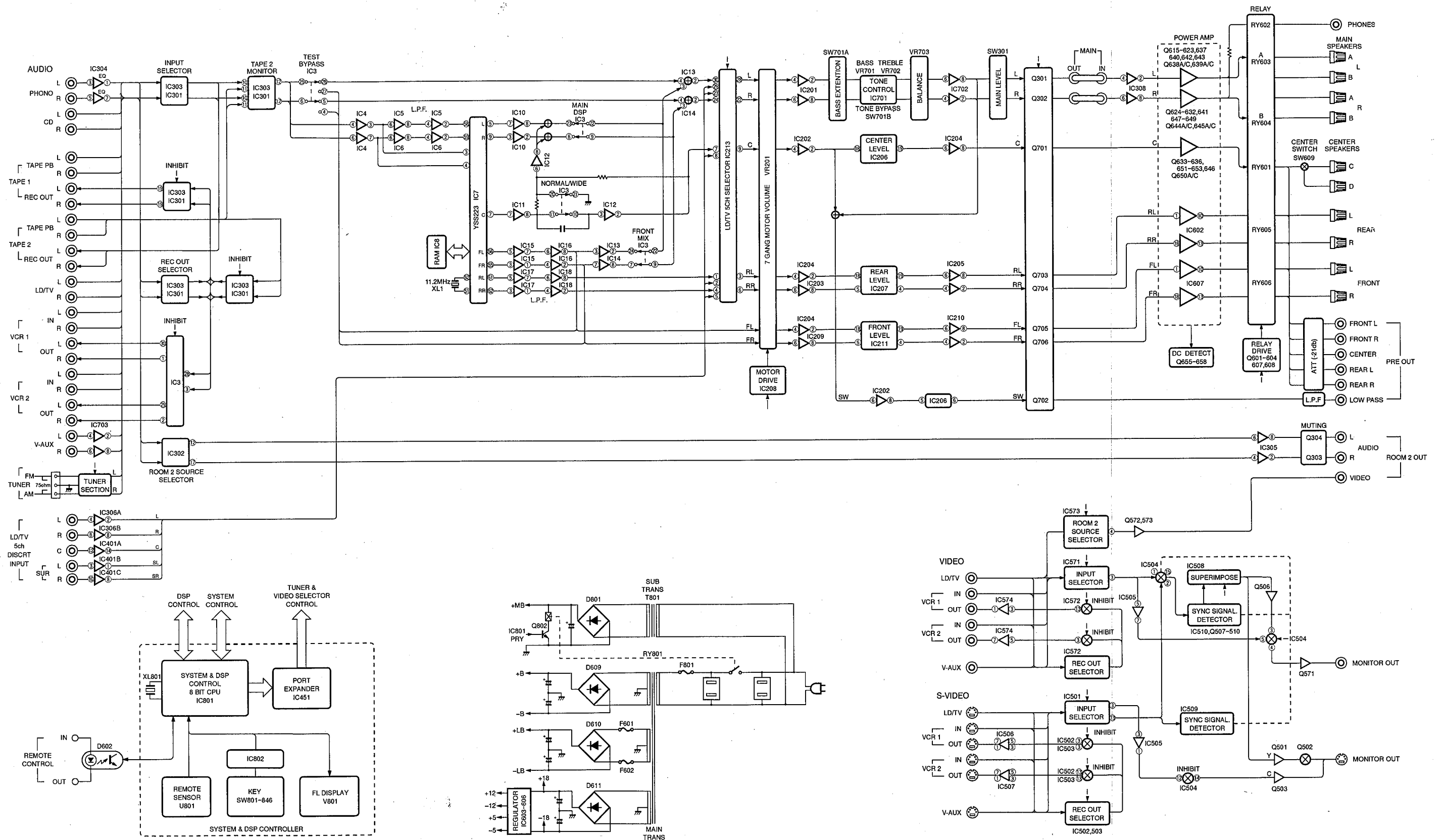


■ BLOCK DIAGRAM



BLOCK DIAGRAM



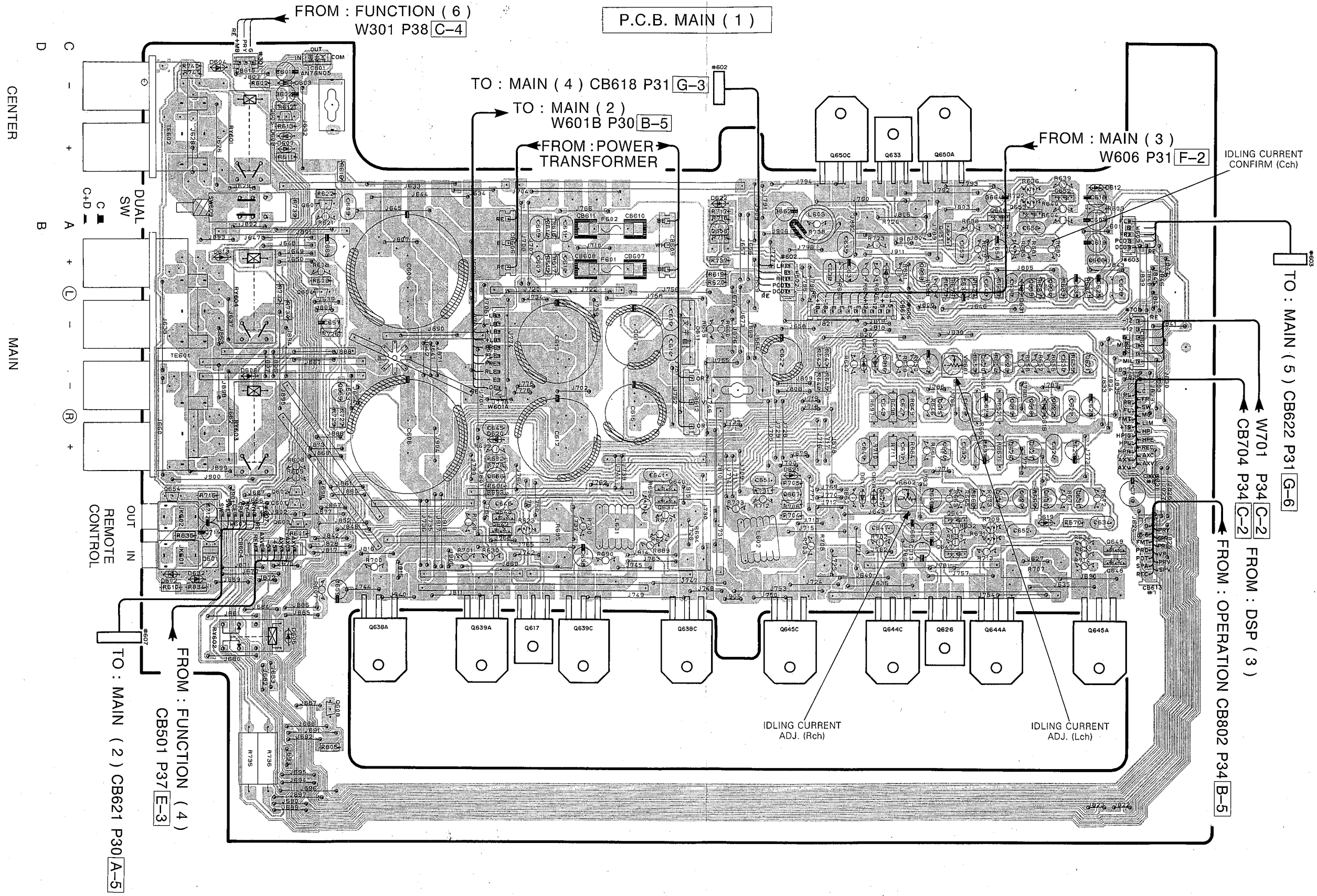
RX-V2090

PRINTED CIRCUIT BOARD (Foil side)

P.C.B. MAIN (1)

Semiconductor Locations

Ref. No.	Location
IC601	B1
Q601	B4
Q602	B4
Q603	B4
Q604	B3
Q605	B2
Q606	F2
Q607	B2
Q608	B5
Q615	F3
Q616	E3
Q617	D4
Q618	F3
Q619	F3
Q620	F3
Q621	F3
Q622	F3
Q623	F3
Q624	F3
Q625	E4
Q626	F4
Q627	F3
Q628	F3
Q629	F4
Q630	F4
Q631	F4
Q632	F4
Q633	E2
Q634	F3
Q635	F3
Q636	F2
Q637	D4
Q638A	C4
Q638C	D4
Q639A	C4
Q639C	D4
Q640	D4
Q641	F4
Q642	C4
Q643	C4
Q644A	F4
Q644C	E4
Q645A	F4
Q645C	E4
Q646	F2
Q647	F4
Q648	G4
Q649	G4
Q650A	F2
Q650C	E2
Q651	F2
Q652	F2
Q653	F2
Q654	B4
Q655	C3
Q656	C3
Q657	E4
Q658	D2



CENTER

MAIN

REMOTE CONTROL

OUT IN

TO : MAIN (2) CB621 P30 A-5

FROM : FUNCTION (4) CB501 P37 E-3

FROM : FUNCTION (6) W301 P38 C-4

TO : MAIN (4) CB618 P31 G-3

TO : MAIN (2) W601B P30 B-5

FROM : POWER TRANSFORMER

FROM : MAIN (3) W606 P31 F-2

IDLING CURRENT CONFIRM (Cch)

TO : MAIN (5) CB622 P31 G-6

W701 P34 C-2

FROM : DSP (3) CB704 P34 C-2

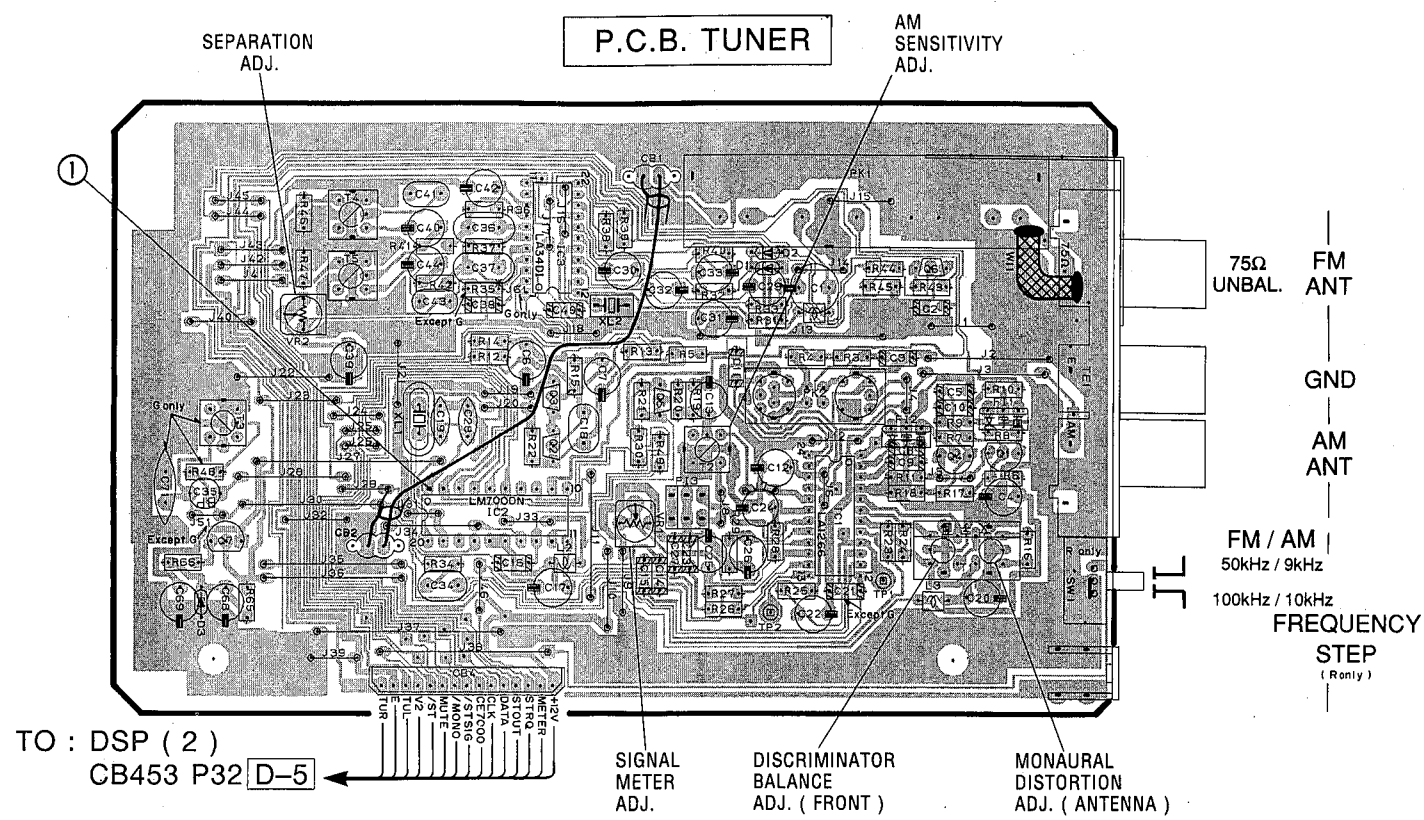
FROM : OPERATION CB802 P34 B-5

IDLING CURRENT ADJ. (Rch)

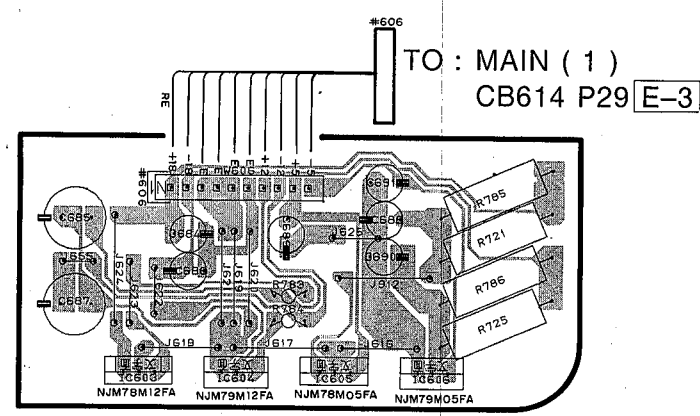
IDLING CURRENT ADJ. (Lch)

PRINTED CIRCUIT BOARD (Foil side)

① : TEST POINT WAVEFORMS (See page 24)



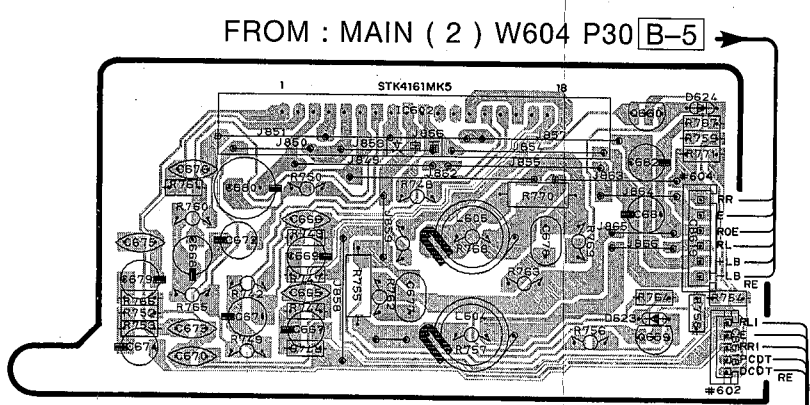
P.C.B. MAIN (3)



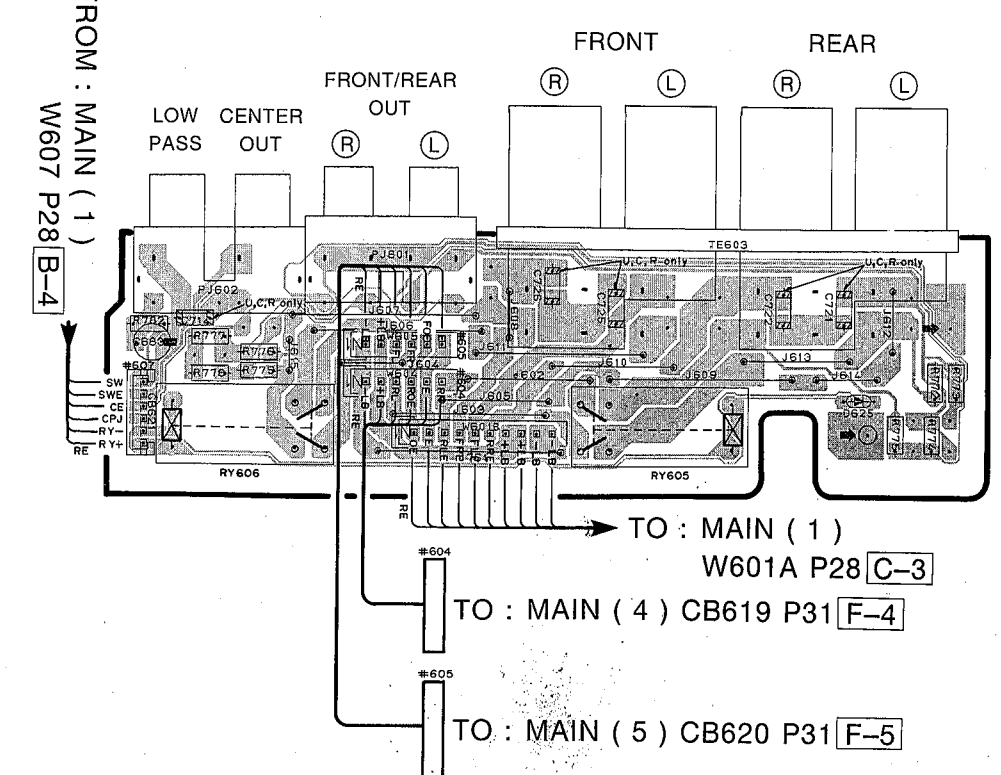
● Semiconductor Locations

Ref. No.	Location	Ref. No.	Location
IC 602	F3	IC 1	C3
IC 603	E2	IC 2	B3
IC 604	F2	IC 3	B2
IC 605	F2	Q 1	C2
IC 606	F2	Q 2	B2
IC 607	F5	Q 3	B2
Q659	F4	Q 4	C2
Q660	F3	Q 5	B2
Q661	F6	Q 6	C2
Q662	F5	Q 7	A3

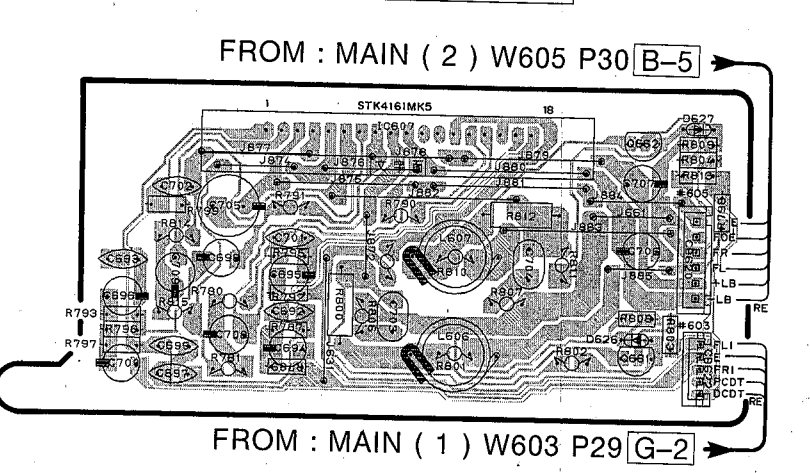
P.C.B. MAIN (4)



P.C.B. MAIN (2)



P.C.B. MAIN (5)

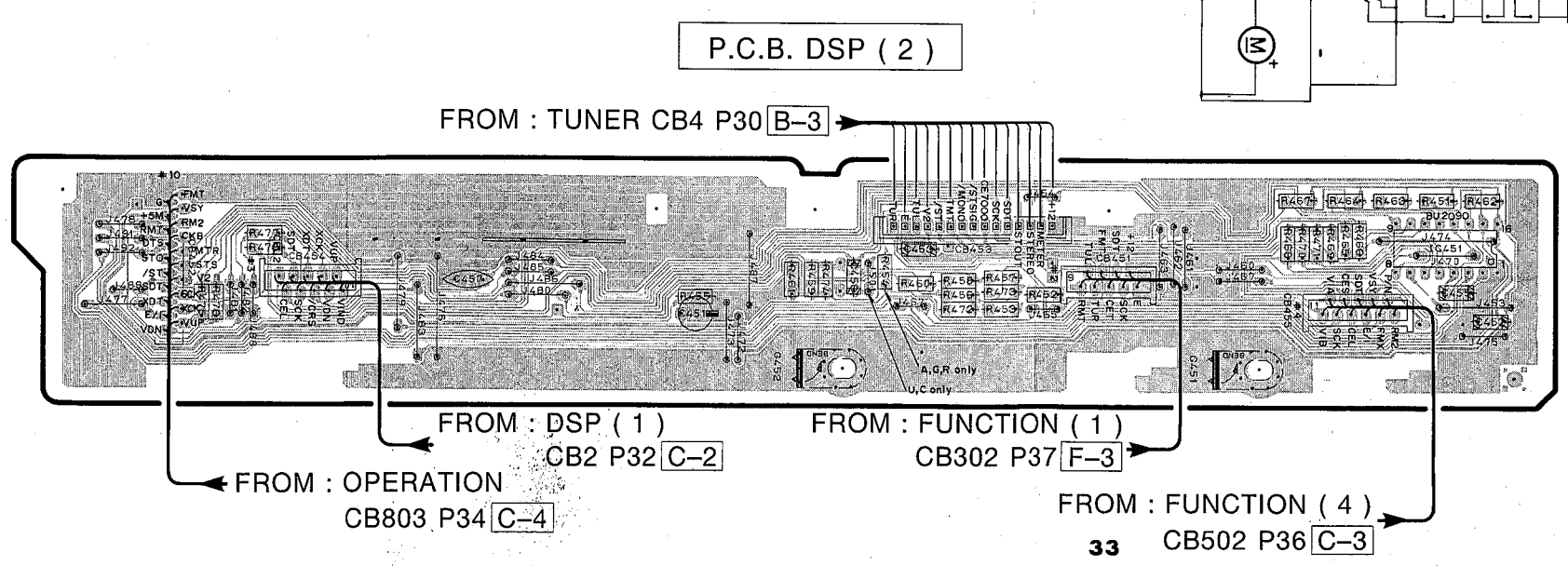
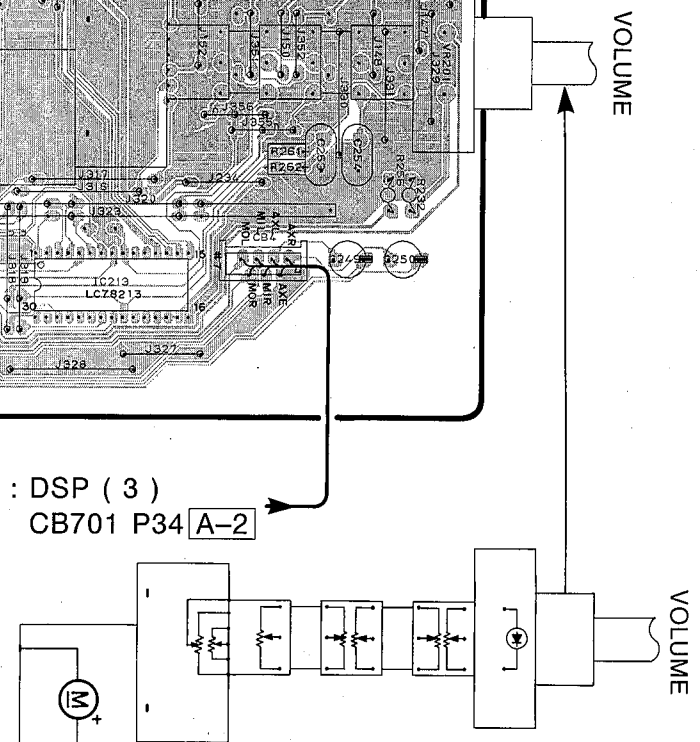
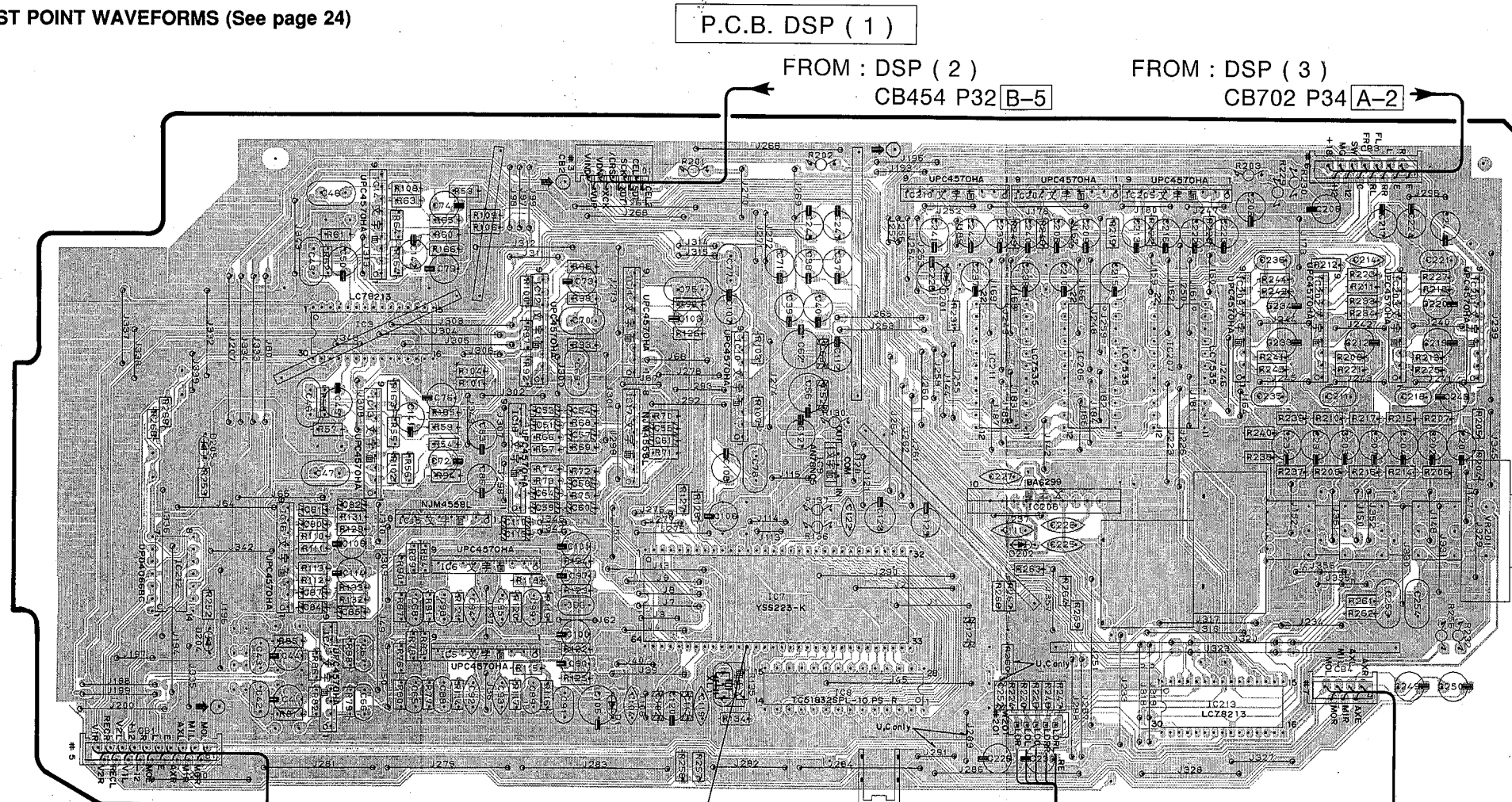


PRINTED CIRCUIT BOARD (Foil side)

② : TEST POINT WAVEFORMS (See page 24)

● Semiconductor Locations

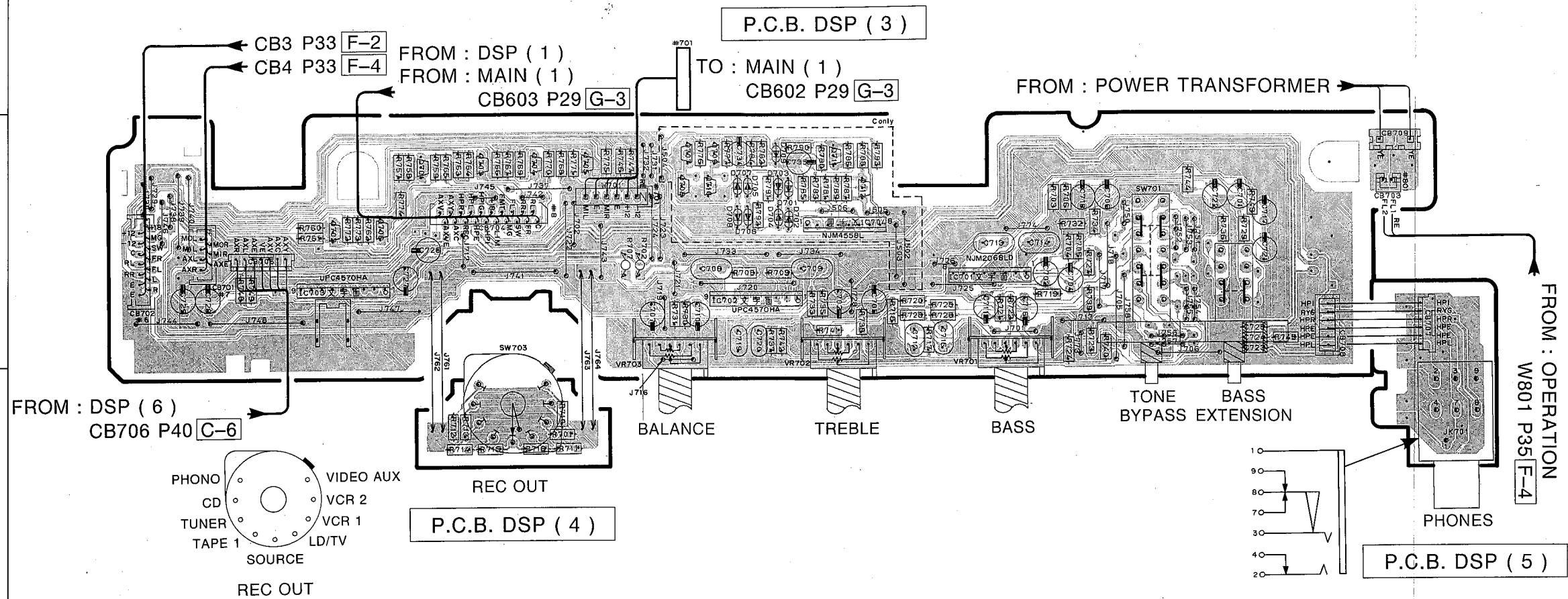
Ref. No.	Location
IC 3	B2
IC 4	B3
IC 5	C3
IC 6	C3
IC 7	D3
IC 8	D3
IC 9	D3
IC 10	D2
IC 11	C2
IC 12	C2
IC 13	B3
IC 14	B2
IC 15	C3
IC 16	B3
IC 17	C3
IC 18	C3
IC201	F2
IC202	E2
IC203	F2
IC204	E2
IC205	E2
IC206	E2
IC207	E2
IC208	E3
IC209	E2
IC210	D2
IC211	D2
IC212	B3
IC213	E3
IC451	F5



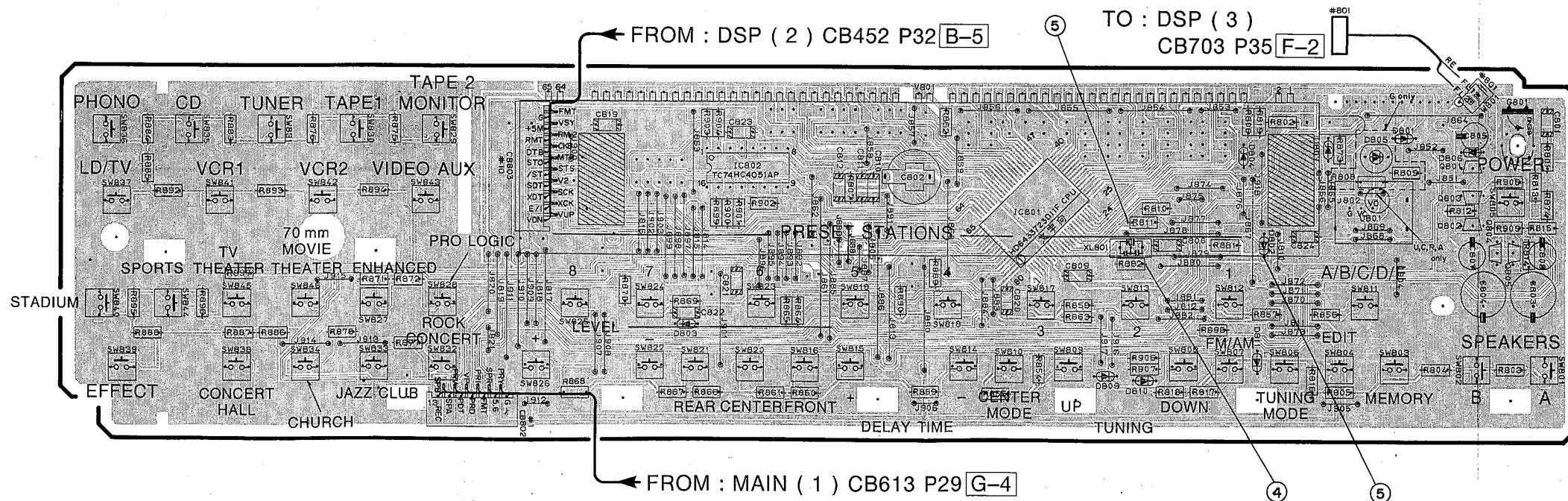
1
2
3
4
5
6

PRINTED CIRCUIT BOARD (Foil side)

⑤ and ⑥ : TEST POINT WAVEFORMS (See page 24)



P.C.B. OPERATION



● Semiconductor Locations

Ref. No.	Location	Ref. No.	Location
IC701	E2	IC801	E5
IC702	D2	IC802	D2
IC703	B2	Q801	F4
IC704	D2	Q802	F5
Q701	B2	Q803	F5
Q702	B2	Q804	F5
Q703	B2	Q805	F5
Q704	C2		
Q705	C2		
Q706	B2		
Q707	C2		
Q708	C2		
Q709	C2		
Q710	C2		
Q711	D2		
Q712	D2		

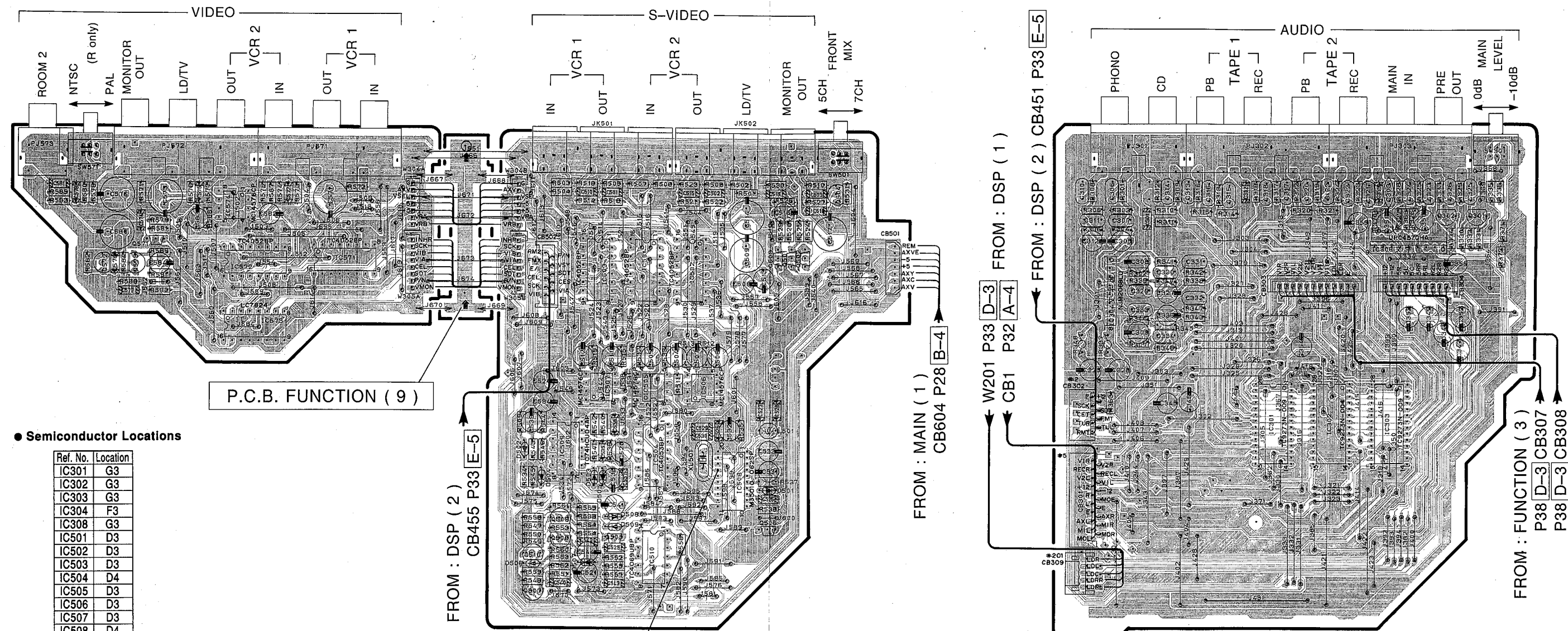
PRINTED CIRCUIT BOARD (Foil side)

④ : TEST POINT WAVEFORMS (See page 24)

P.C.B. FUNCTION (5)

P.C.B. FUNCTION (4)

P.C.B. FUNCTION (1)



P.C.B. FUNCTION (9)

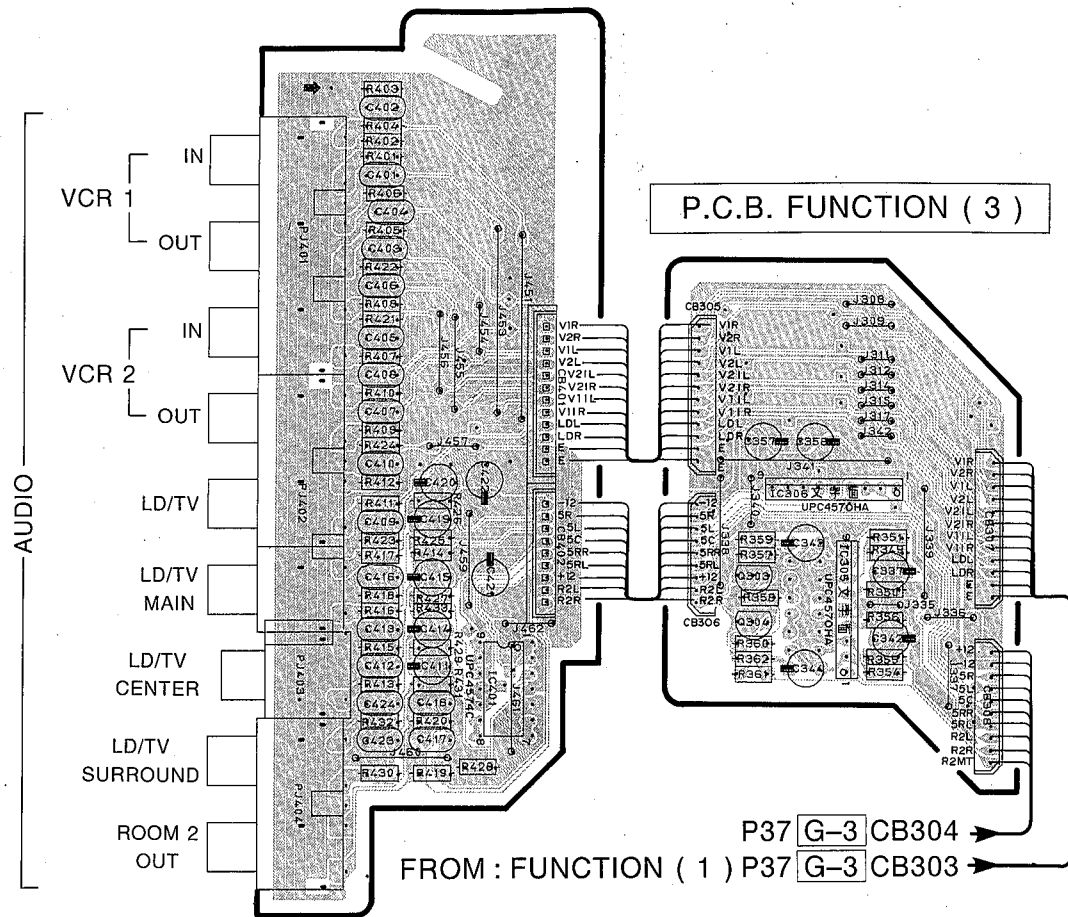
● Semiconductor Locations

Ref. No.	Location
IC301	G3
IC302	G3
IC303	G3
IC304	F3
IC308	G3
IC501	D3
IC502	D3
IC503	D3
IC504	D4
IC505	D3
IC506	D3
IC507	D3
IC508	D4
IC509	C4
IC510	D4
IC571	B3
IC572	B3
IC573	B3
IC574	B2
Q301	H2
Q302	H2
Q501	E3
Q502	E3
Q503	D3
Q504	E2
Q505	D4
Q506	D4
Q507	C4
Q508	C4
Q509	C4
Q510	C4
Q571	B3
Q572	A3
Q573	A3

Note : There is an expansion P.C.B. to connect with MAIN (1) for voltage check of FUNCTION (4). It is included in P.C.B. Ass'y FUNCTION and identified by "RX-V2090" printed on it. Use it by mounting connectors(VQ96100, VB69970, VQ96280).

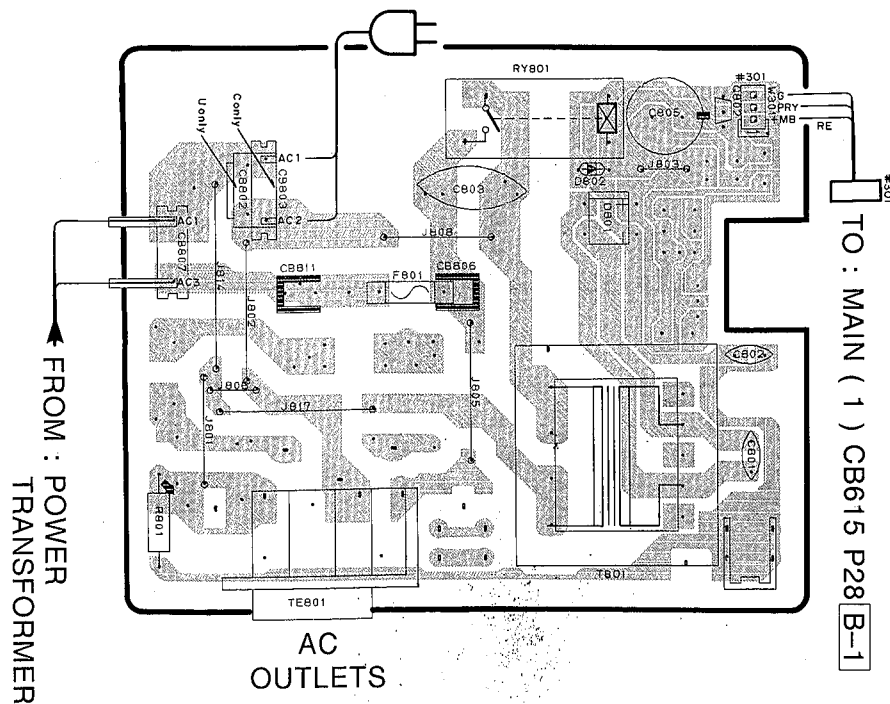
PRINTED CIRCUIT BOARD (Foil side)

P.C.B. FUNCTION (2)



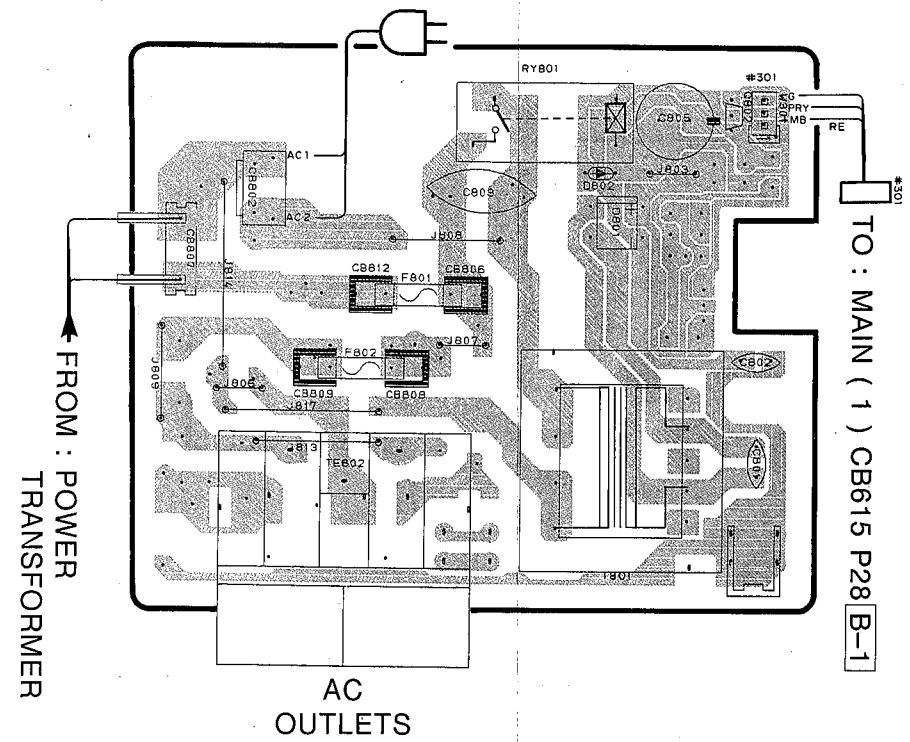
● U,C models

P.C.B. FUNCTION (6)



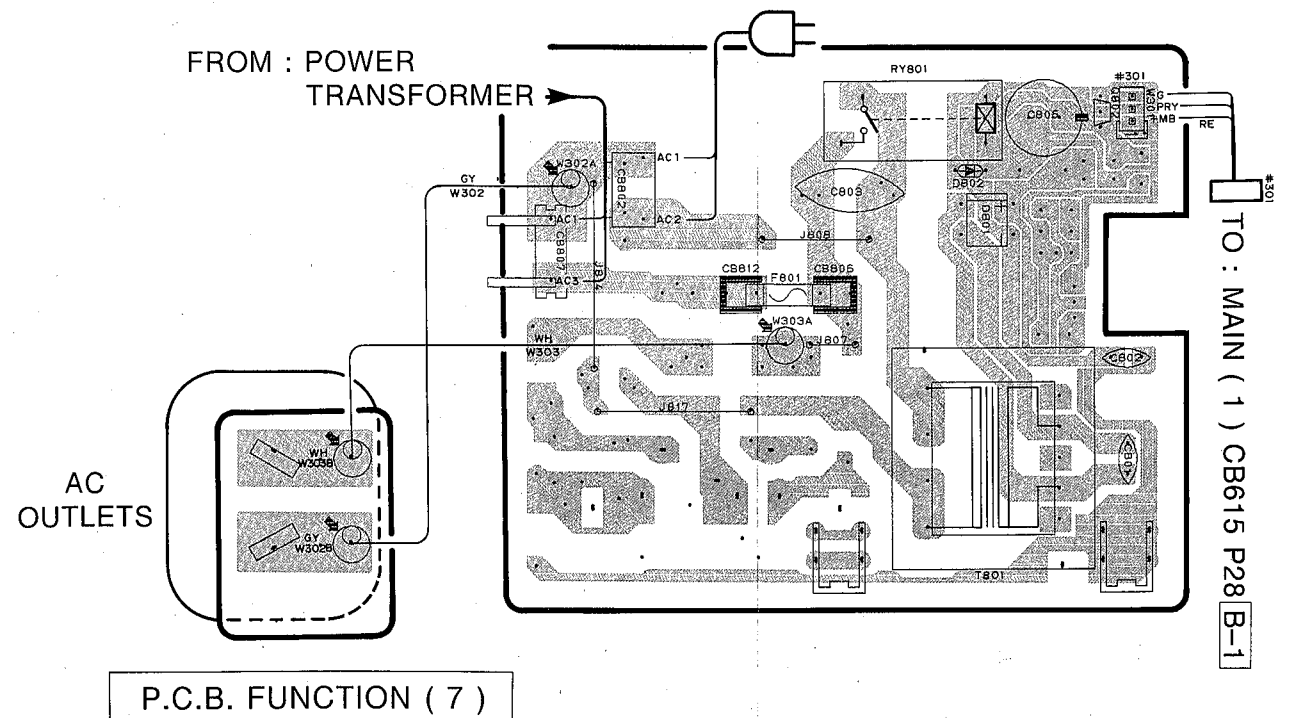
● G model

P.C.B. FUNCTION (6)



● A model

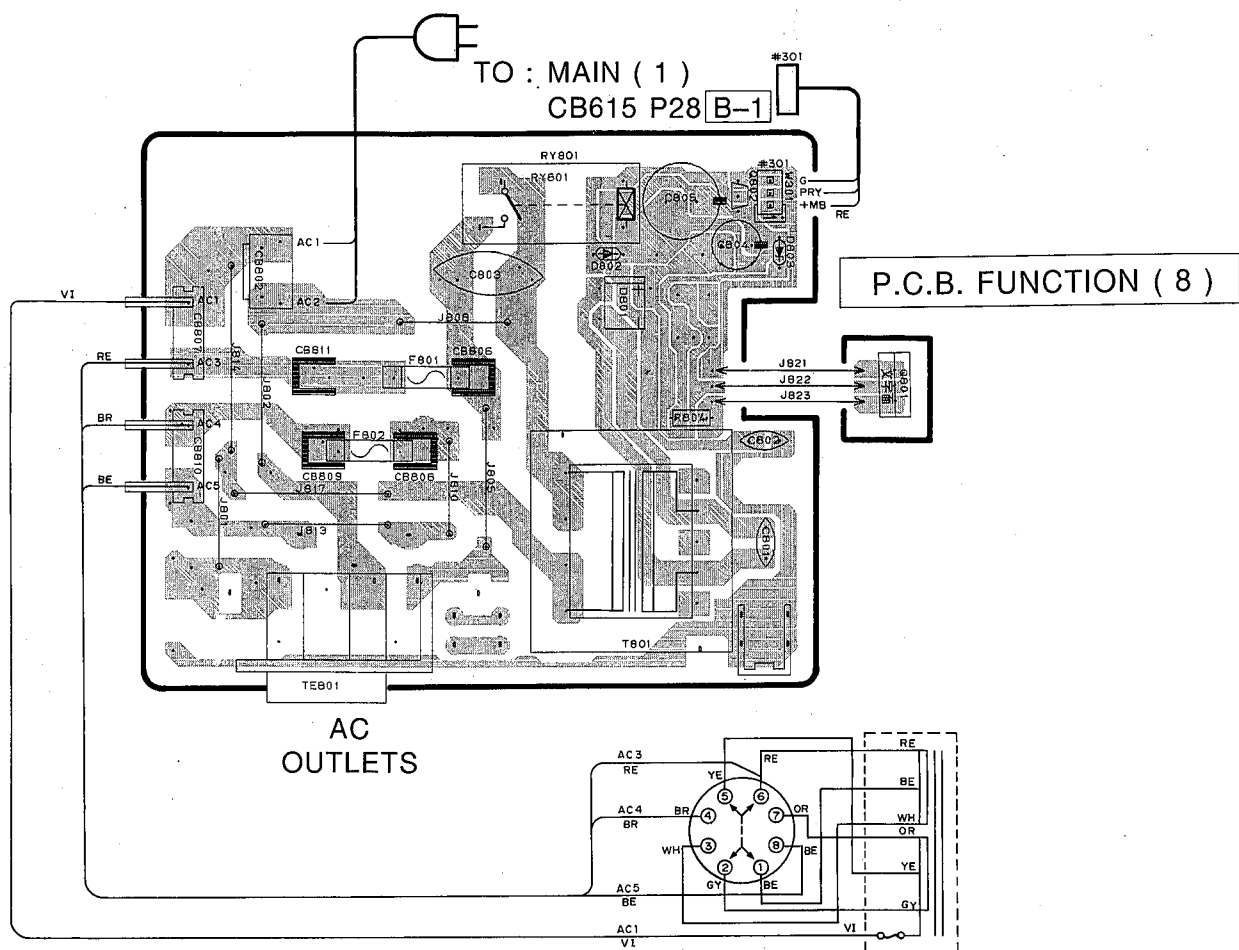
P.C.B. FUNCTION (6)



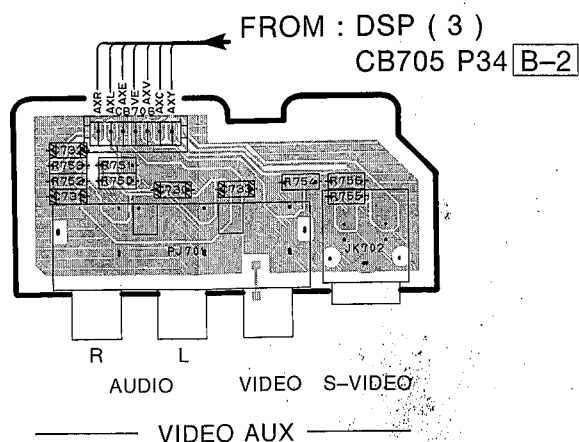
PRINTED CIRCUIT BOARD (Foil side)

● R model

P.C.B. FUNCTION (6)

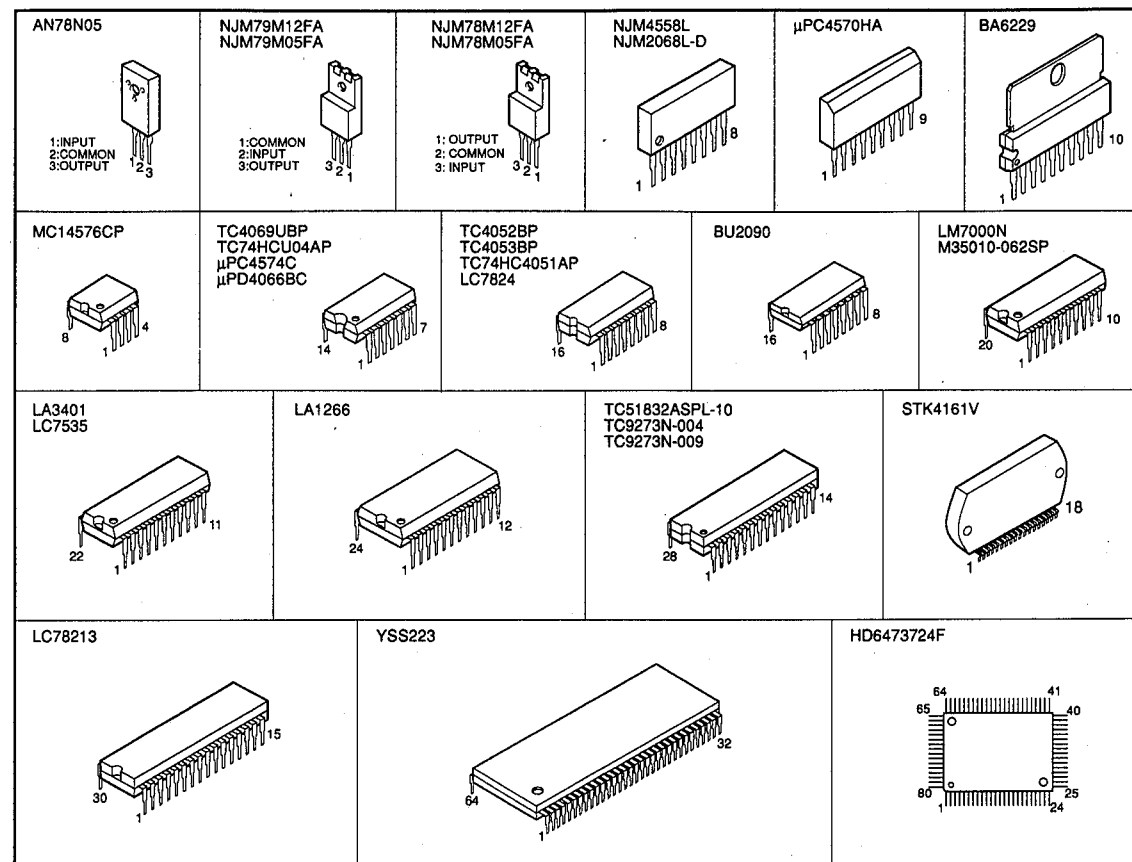


P.C.B. DSP (6)

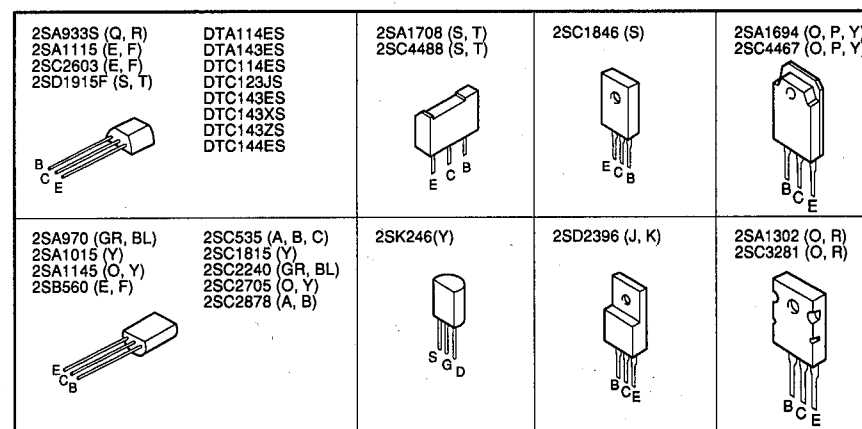


PIN CONNECTION DIAGRAM

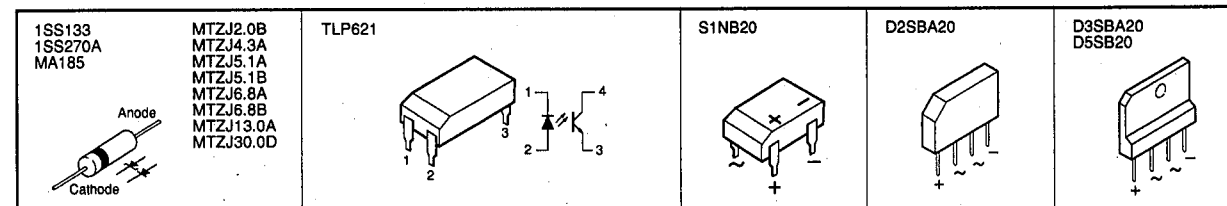
● ICs



● Transistors



● Diodes



SCHEMATIC DIAGRAM (TUNER & OPERATION)

①, ④ and ⑤: TEST POINT WAVEFORMS (See page 24)

Each voltage given here represents that in the FM (98.1MHz, STEREO) reception mode but the one in the parentheses () is that in the AM (1080kHz, MAN'L) reception mode.

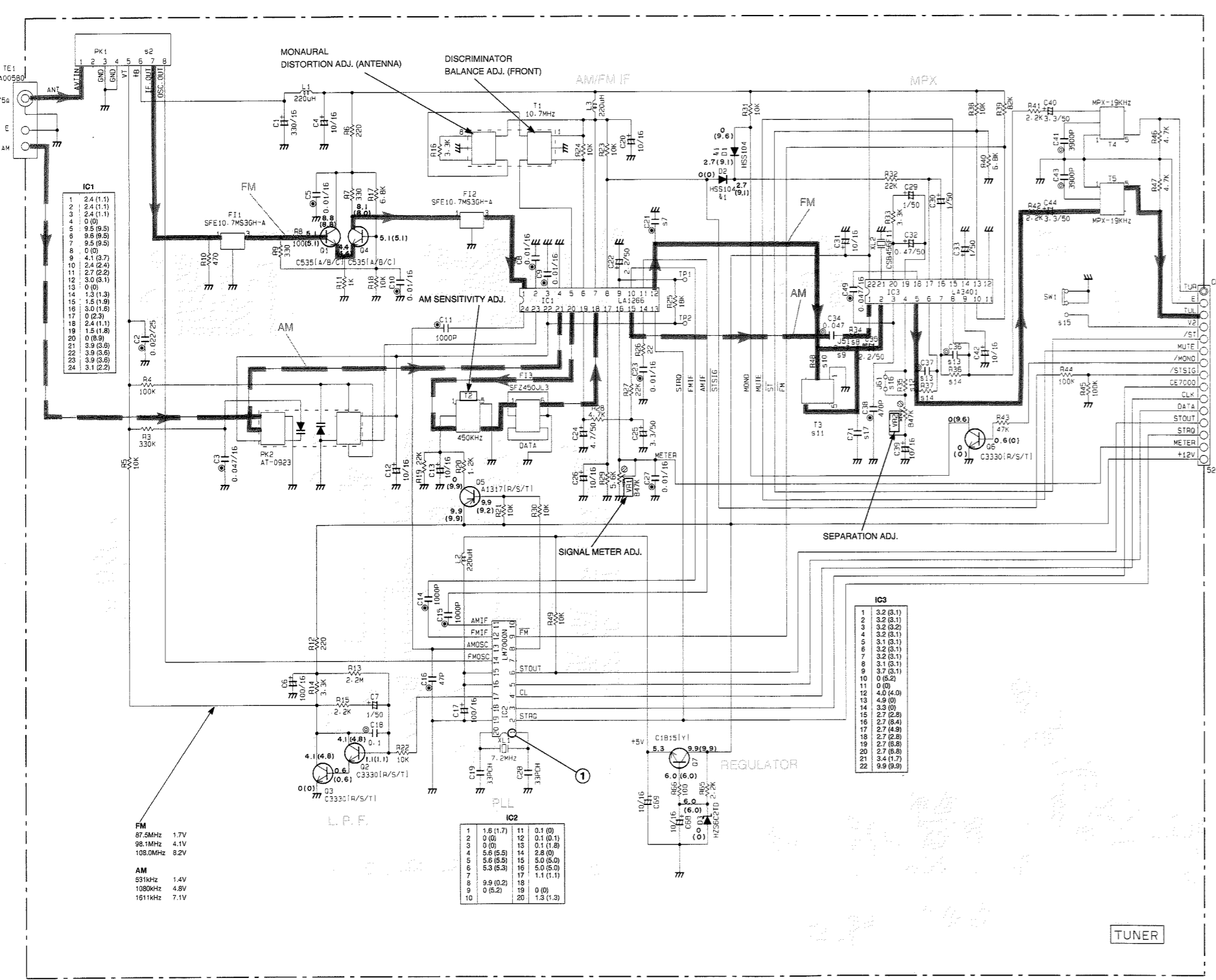
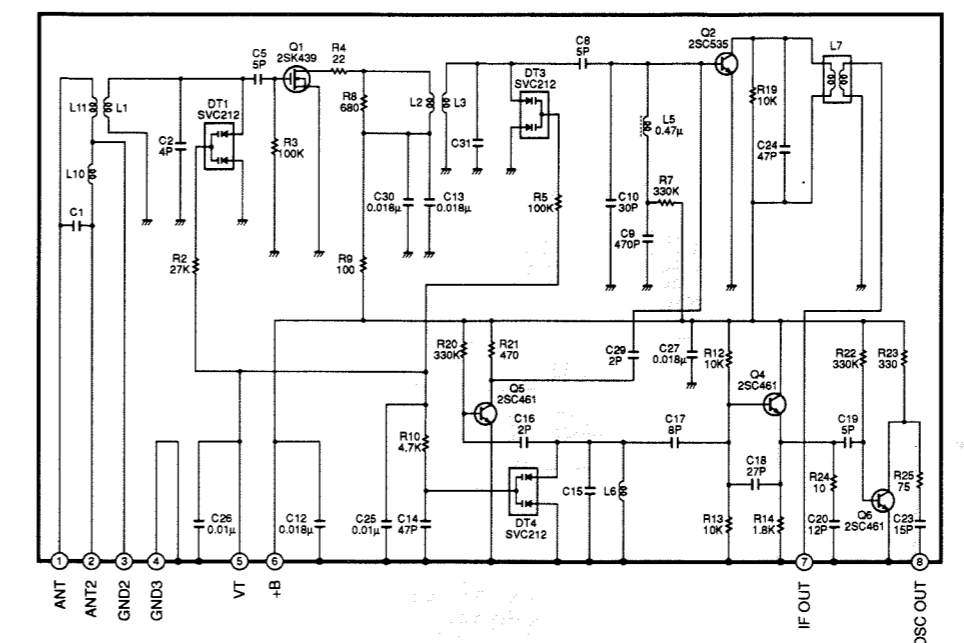


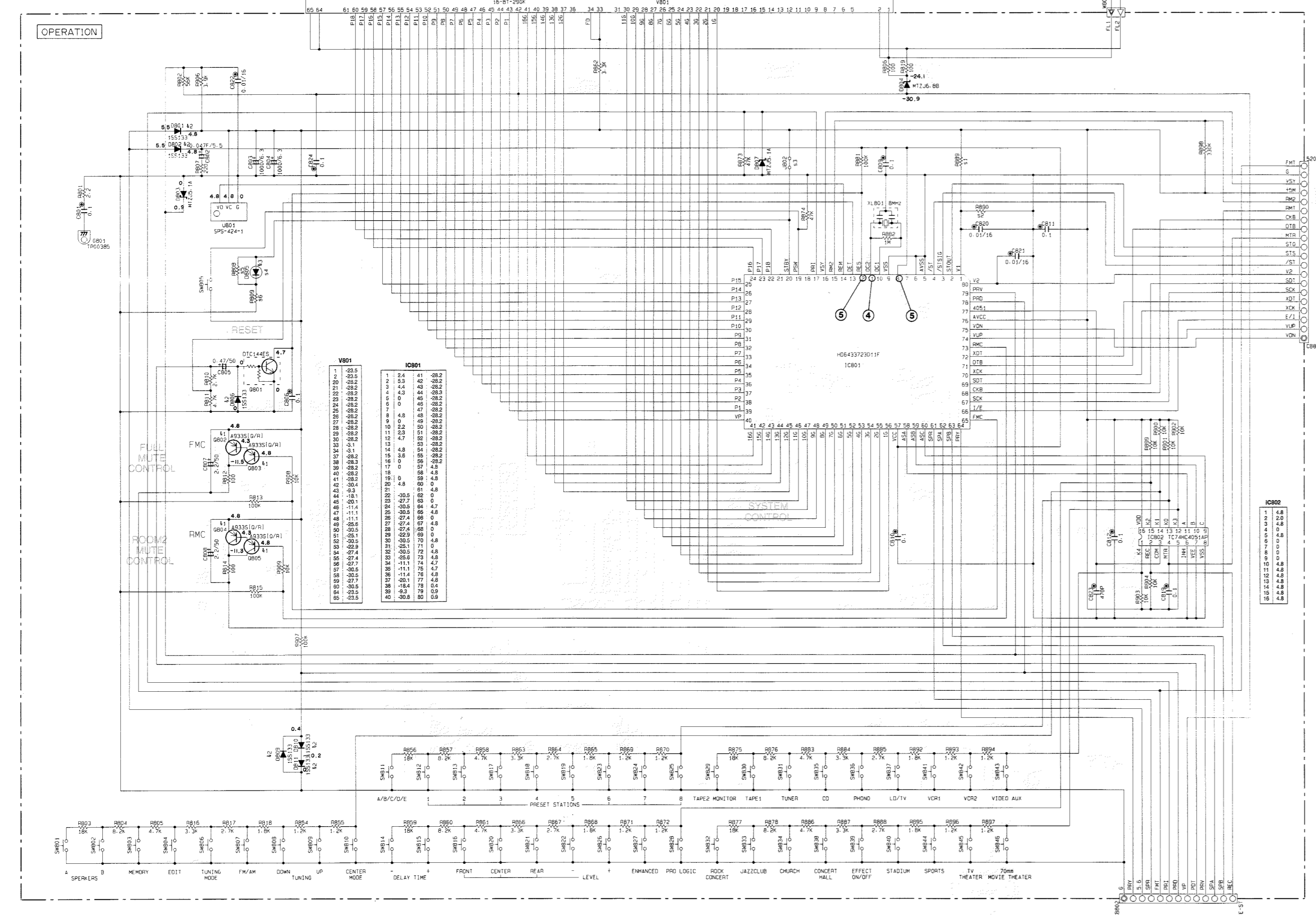
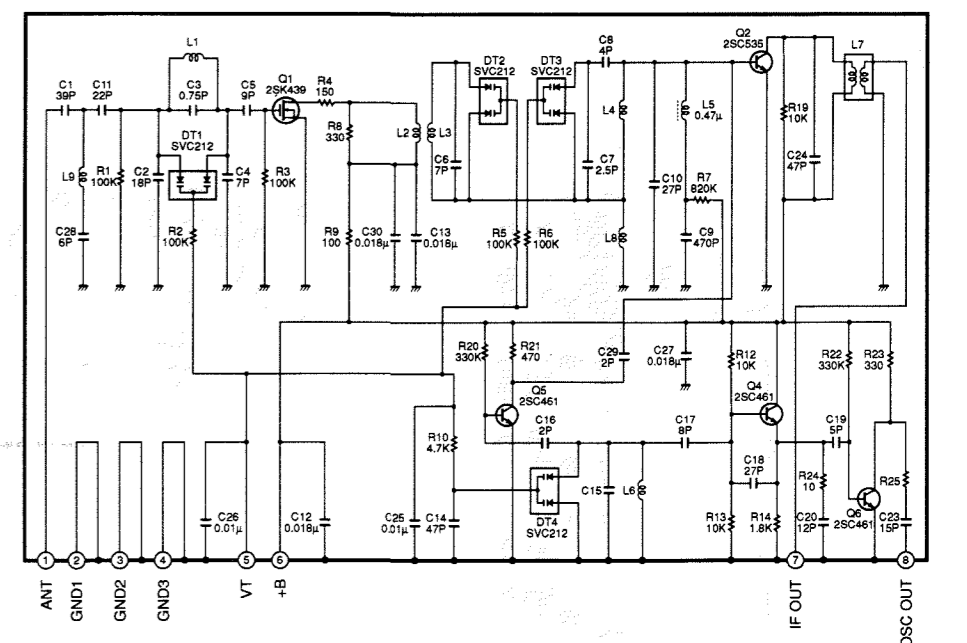
Table with 5 columns: U-C, R, A-B, S, and a list of part numbers (e.g., V92420, V92422, V92423, V92424).

Interchangeable Parts at Manufacture Stage table with columns: Name, Reference Parts Number, Parts Name.

Except G model PK1 : ENV-17298GI (VR242200)



G model PK1 : ENV-17297GI (VQ987600)



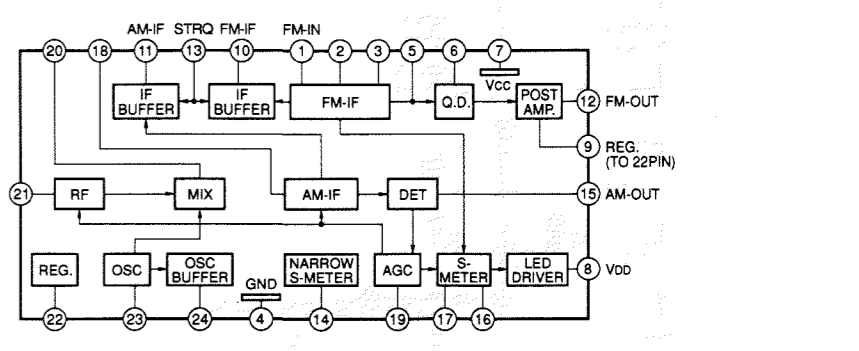
Capacitor table with columns: Remarks, Parts Name, and a list of capacitor types (e.g., NO MARK ELECTROLYTIC CAPACITOR).

Resistor table with columns: Remarks, Parts Name, and a list of resistor types (e.g., NO MARK CARBON FILM RESISTOR).

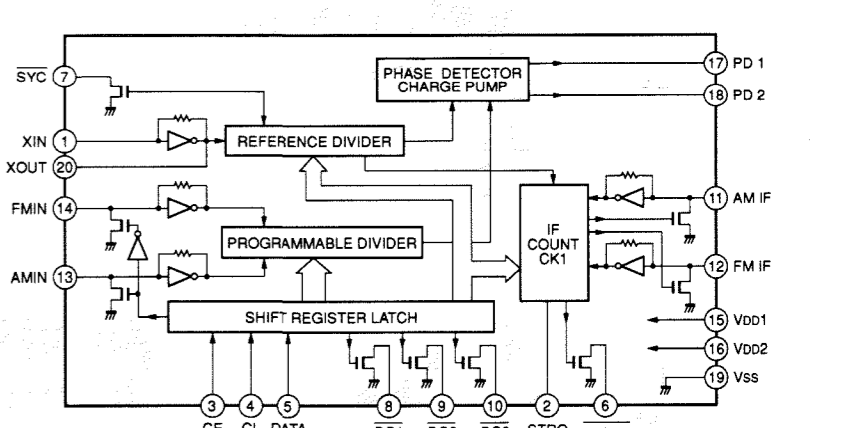
Interchangeable Parts at Manufacture Stage table for the operation section.

Capacitor table with columns: U-C-A, B, L, and a list of capacitor values (e.g., 100, 20K, 5.6K).

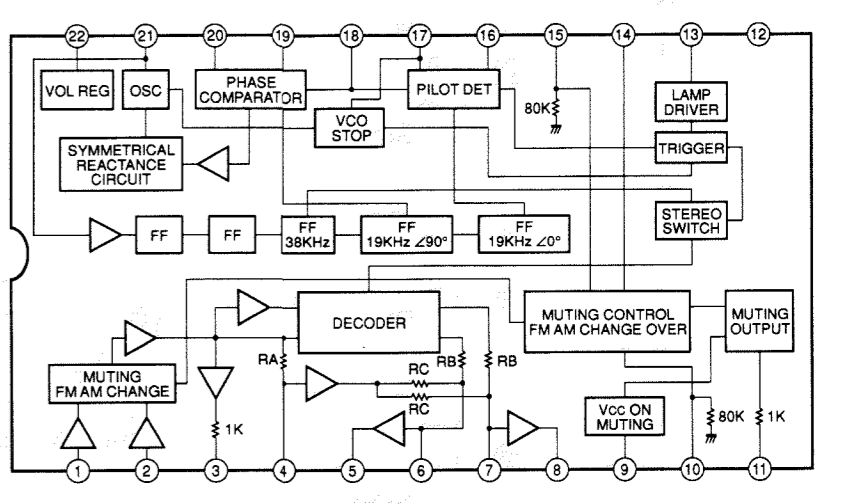
IC1 : LA1266 AM/FM IF



IC2 : LM7000N PLL Controller



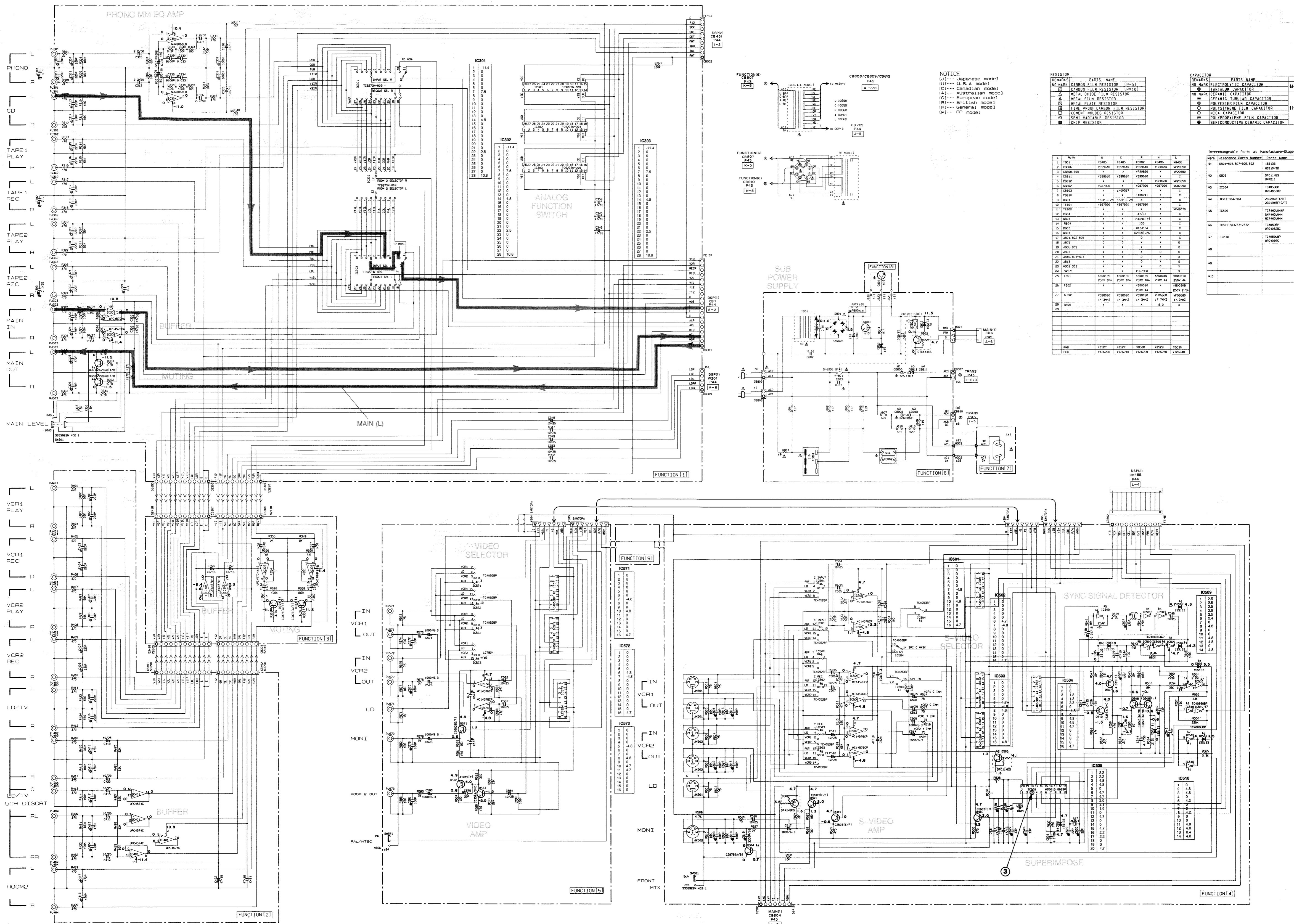
IC3 : LA3401 MPX



All voltages are measured with a 10MΩ/DC electric volt meter. Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed. Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM (FUNCTION)

③ : TEST POINT WAVEFORMS (See page 24)



NOTICE
 (J)..... Japanese mode)
 (U)..... U.S.A mode)
 (C)..... Canadian mode)
 (A)..... Australian mode)
 (G)..... European mode)
 (B)..... British mode)
 (E)..... General mode)
 (P)..... PSP mode)

RESISTOR	REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)	10000
Ω	CARBON FILM RESISTOR (P=10)	10000
△	METAL GLAZE FILM RESISTOR	10000
■	METAL FILM RESISTOR	10000
□	METAL GLAZE RESISTOR	10000
○	FIBRE PROF. CARBON FILM RESISTOR	10000
◇	THICK FILM RESISTOR	10000
●	SEM. VARIABLE RESISTOR	10000
○	CHIP RESISTOR	10000

CAPACITOR	REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR	10000
○	TANTALUM CAPACITOR	10000
△	METAL GLAZE CERAMIC CAPACITOR	10000
■	CERAMIC 1000P/M CAPACITOR	10000
□	POLYESTER FILM CAPACITOR	10000
◇	POLYSTYRENE FILM CAPACITOR	10000
○	MICA CAPACITOR	10000
◇	POLYPROPYLENE FILM CAPACITOR	10000
●	SEMICONDUCTIVE CERAMIC CAPACITOR	10000

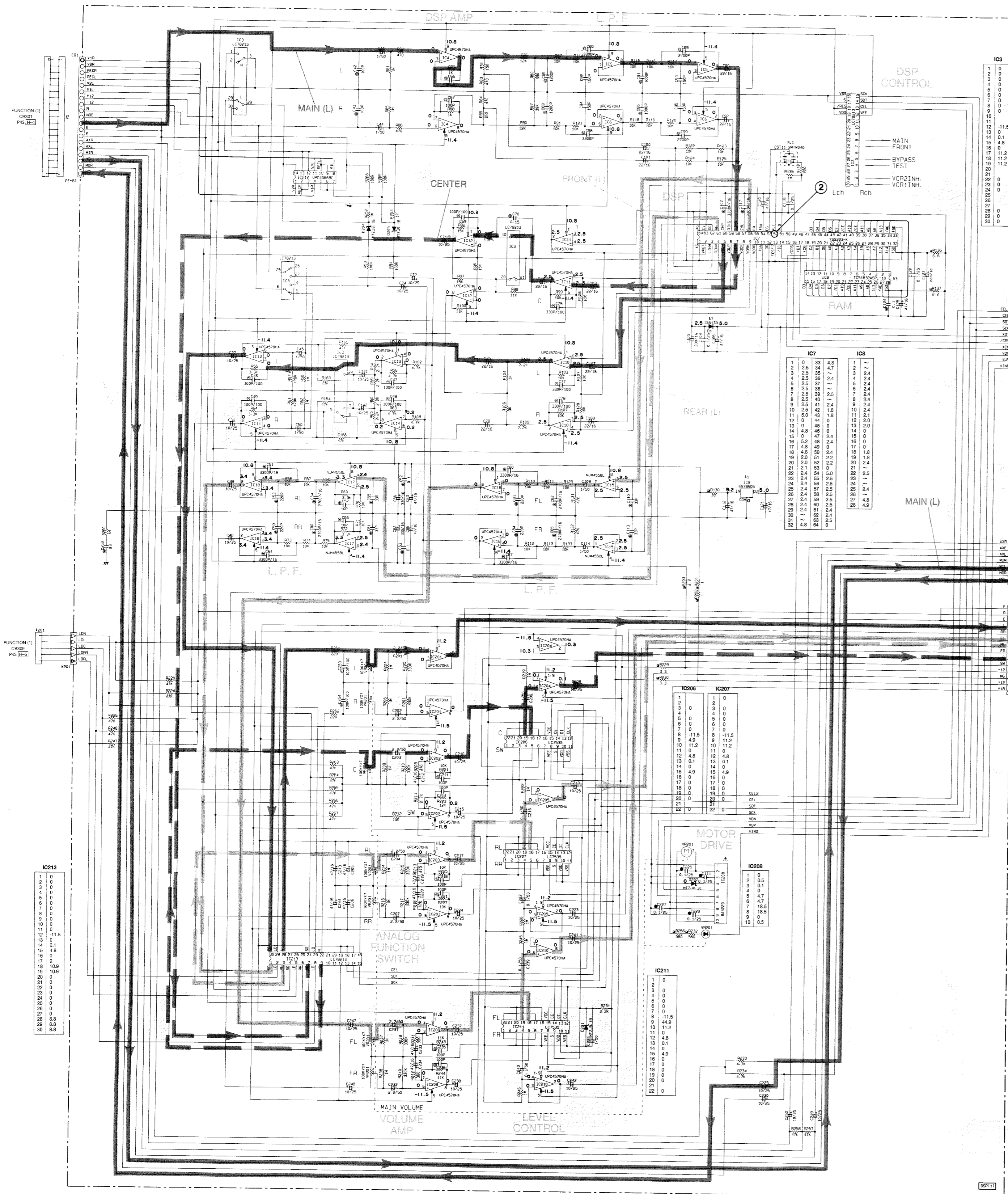
NO.	MIN.	V.	C.	R.	X.	L.
1	1001	10000	10000	10000	10000	10000
2	1002	10000	10000	10000	10000	10000
3	1003	10000	10000	10000	10000	10000
4	1004	10000	10000	10000	10000	10000
5	1005	10000	10000	10000	10000	10000
6	1006	10000	10000	10000	10000	10000
7	1007	10000	10000	10000	10000	10000
8	1008	10000	10000	10000	10000	10000
9	1009	10000	10000	10000	10000	10000
10	1010	10000	10000	10000	10000	10000
11	1011	10000	10000	10000	10000	10000
12	1012	10000	10000	10000	10000	10000
13	1013	10000	10000	10000	10000	10000
14	1014	10000	10000	10000	10000	10000
15	1015	10000	10000	10000	10000	10000
16	1016	10000	10000	10000	10000	10000
17	1017	10000	10000	10000	10000	10000
18	1018	10000	10000	10000	10000	10000
19	1019	10000	10000	10000	10000	10000
20	1020	10000	10000	10000	10000	10000
21	1021	10000	10000	10000	10000	10000
22	1022	10000	10000	10000	10000	10000
23	1023	10000	10000	10000	10000	10000
24	1024	10000	10000	10000	10000	10000
25	1025	10000	10000	10000	10000	10000
26	1026	10000	10000	10000	10000	10000
27	1027	10000	10000	10000	10000	10000
28	1028	10000	10000	10000	10000	10000
29	1029	10000	10000	10000	10000	10000

Part No.	Reference No.	Part Name
1001	1001	10000
1002	1002	10000
1003	1003	10000
1004	1004	10000
1005	1005	10000
1006	1006	10000
1007	1007	10000
1008	1008	10000
1009	1009	10000
1010	1010	10000
1011	1011	10000
1012	1012	10000
1013	1013	10000
1014	1014	10000
1015	1015	10000
1016	1016	10000
1017	1017	10000
1018	1018	10000
1019	1019	10000
1020	1020	10000
1021	1021	10000
1022	1022	10000
1023	1023	10000
1024	1024	10000
1025	1025	10000
1026	1026	10000
1027	1027	10000
1028	1028	10000
1029	1029	10000

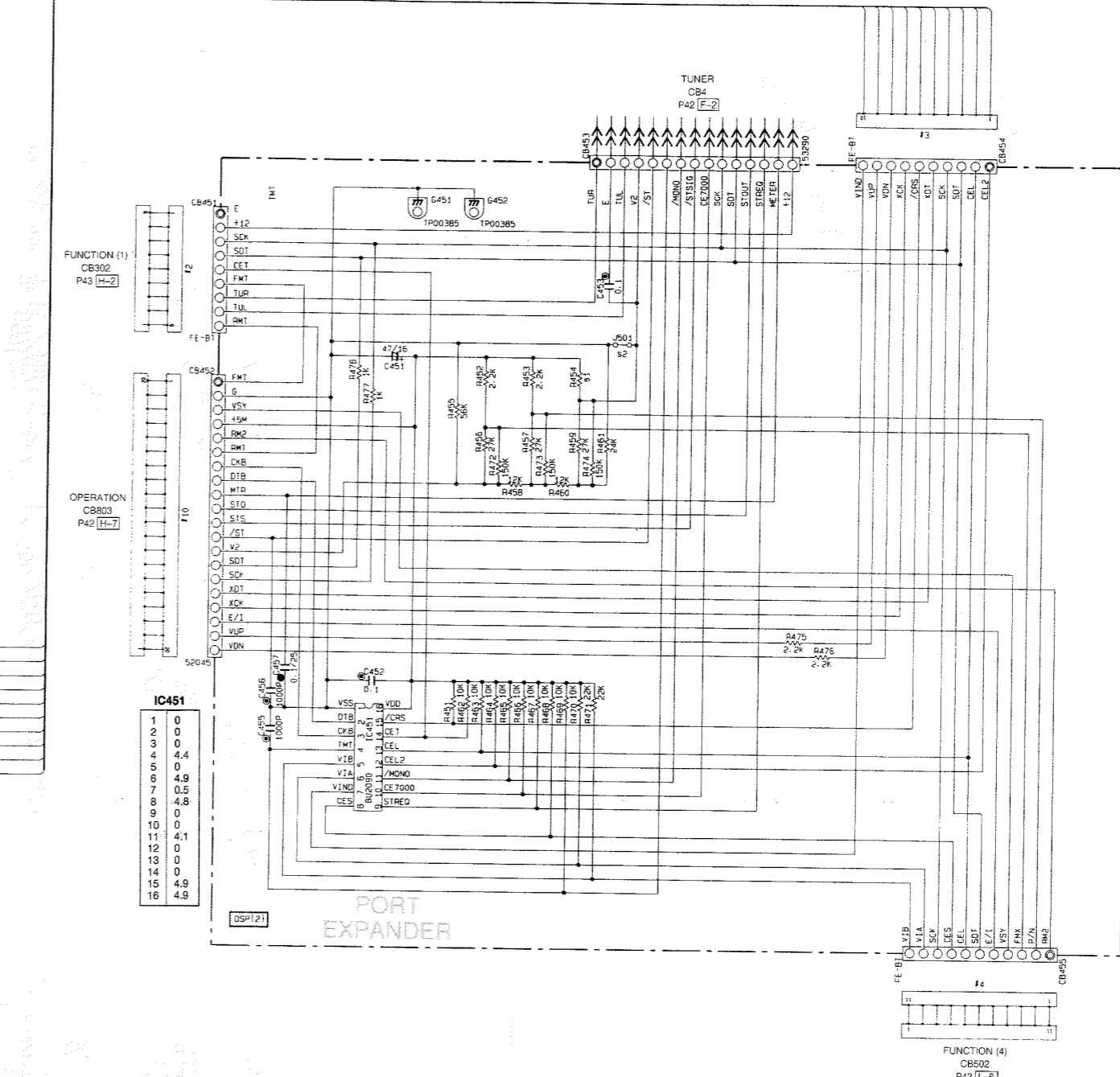
* All voltage are measured with a 10MΩ/DC electric volt meter.
 * Components having special characteristics are marked △ and must be replaced with parts having specifications equal to those originally installed.
 * Schematic diagram is subject to change without notice.

SCHEMATIC DIAGRAM (DSP)

② : TEST POINT WAVEFORMS (See page 24)

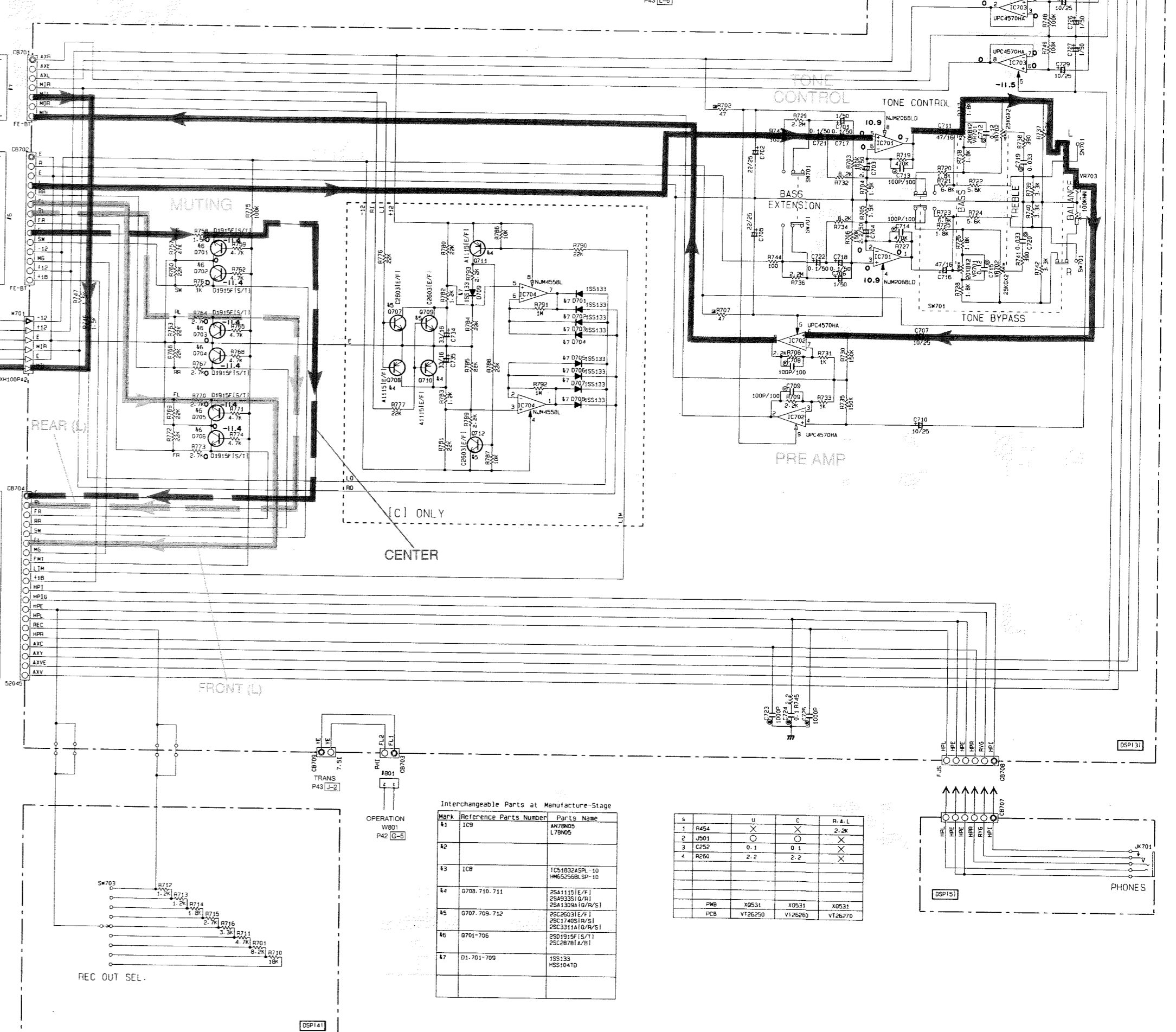
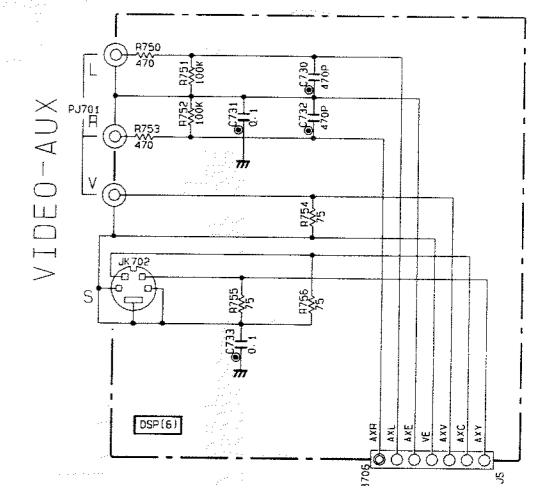


REMARKS	PARTS NAME	REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P-1)	NO MARK	ELECTROLYTIC CAPACITOR
ⓐ	CARBON FILM RESISTOR (P-10)	ⓐ	ELECTROLYTIC CAPACITOR
ⓑ	METAL OXIDE FILM RESISTOR	ⓑ	CERAMIC CAPACITOR
ⓒ	METAL FILM RESISTOR	ⓒ	POLYESTER FILM CAPACITOR
ⓓ	FIRE PROOF CARBON FILM RESISTOR	ⓓ	POLYSTYRENE FILM CAPACITOR
ⓔ	CEMENT MOUNTED RESISTOR	ⓔ	ALUM. CAPACITOR
ⓕ	WIRE WOUND RESISTOR	ⓕ	POLYPROPYLENE FILM CAPACITOR
ⓖ	TRIMMABLE RESISTOR	ⓖ	SEMICONDUCTIVE CERAMIC CAPACITOR



CASE	IC301,303 (*)1	IC3 (L/R)	IC3 (NOISE DOLBY L/R)	IC3 (FRONT)	IC3 (FRONT)
TAPE MONITOR OFF	ON	11, 12	25, 26	22, 23	22, 24
TAPE MONITOR ON	OFF	ON	OFF	OFF	10, 11
EFFECT OFF	---	---	---	---	---
HIFI DSP PROGRAM (*)2	---	---	---	---	---
CINEMA DSP PROGRAM (*)3	---	---	---	---	---
DOLBY PRO LOGIC	---	---	---	---	---
CENTER MODE NORMAL	---	---	---	---	---
CENTER MODE WIDE	---	---	---	---	---
TEST DOLBY	OFF	OFF	OFF	ON	ON
TEST DSP	OFF	OFF	OFF	OFF	ON
DIAG. No.2 (FRONT CHECK)	---	---	---	---	---

(*)1 : PCS FUNCTION (1)
 (*)2 : CONCERT HALL/CHURCH/JAZZ CLUB/ROCK CONCERT/STADIUM
 (*)3 : SPORTS/TV THEATER/70mm MOVIE THEATER/ENHANCED
 (*)4 : FRONT MIX OFF



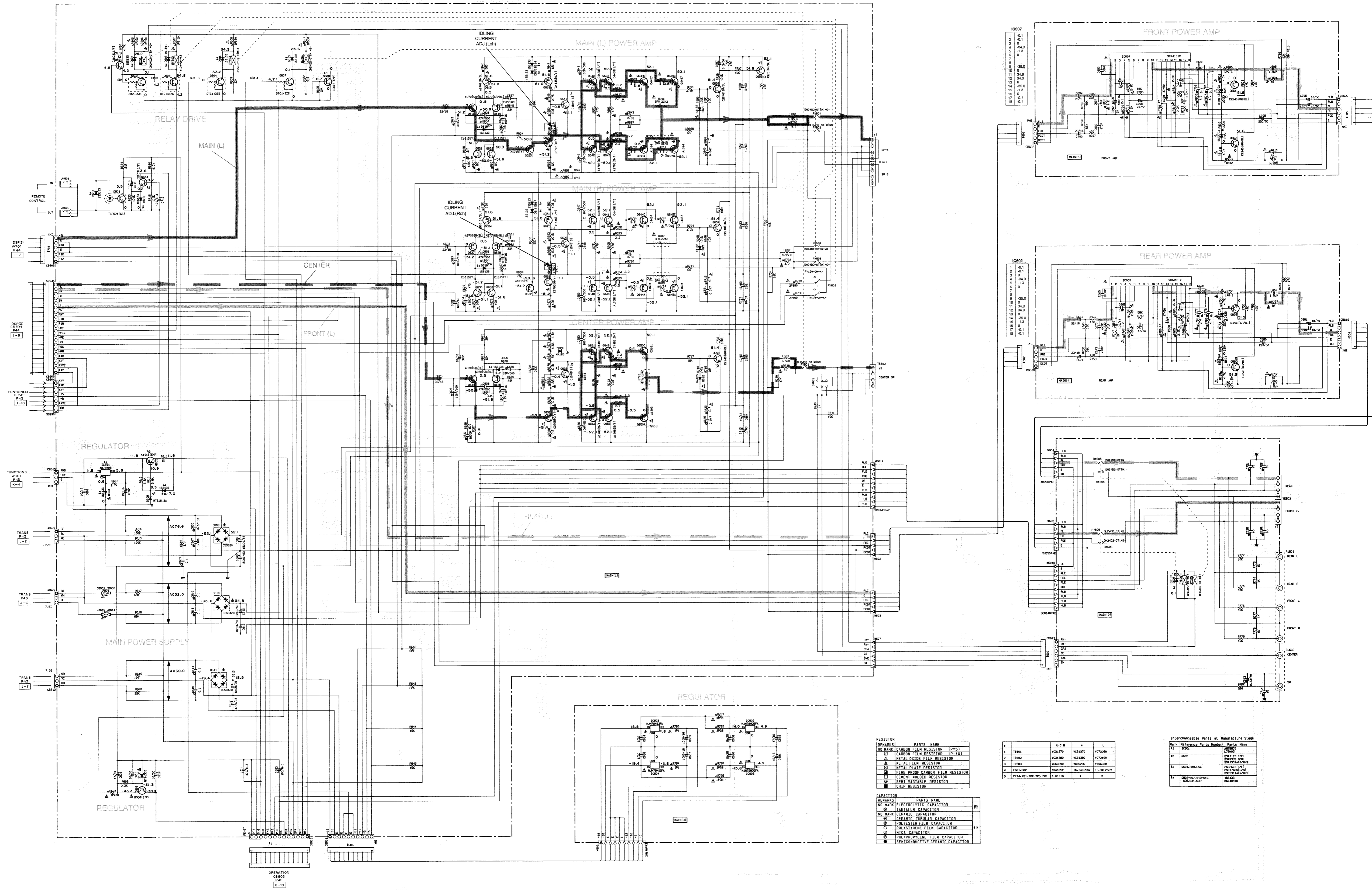
Interchangeable Parts at Manufacturer-Stage

No.	Reference Parts Number	Parts Name
41	ICP	ICP
42	ICR	ICR
43	ICR	ICR
44	ICR	ICR
45	ICR	ICR
46	ICR	ICR
47	ICR	ICR

U	C	R	N	L
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30
31	32	33	34	35
36	37	38	39	40
41	42	43	44	45
46	47	48	49	50
51	52	53	54	55
56	57	58	59	60
61	62	63	64	65
66	67	68	69	70
71	72	73	74	75
76	77	78	79	80
81	82	83	84	85
86	87	88	89	90
91	92	93	94	95
96	97	98	99	100

All voltage are measured with a 10MΩ/DC electric volt meter.
 Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
 Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM (MAIN)



RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P-S)
□	CARBON FILM RESISTOR (P-TIG)
○	METAL OXIDE FILM RESISTOR
△	METAL FILM RESISTOR
◇	METAL PLATE RESISTOR
■	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT WOUND RESISTOR
■	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
○	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
●	CERAMIC SUBSTRATE CAPACITOR
○	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
○	MYLAR CAPACITOR
○	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

	U.C.B.	A	L
1	VC3370	VC3370	VC7000
2	VC3380	VC3380	VC7200
3	VC5020	VC5020	VC7000
4	VC5020	VC5020	VC7000
5	VC5020	VC5020	VC7000

Interchangeable Parts at Manufacture's Stage

Part No.	Interchange Part No.	Part Name
81	IC801	RELAY DRIVER IC
82	IC802	REAR POWER AMP IC
83	IC803	FRONT POWER AMP IC
84	IC804	RELAY DRIVER IC

All voltages are measured with a 10MΩ/DC electric volt meter.
 Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
 Schematic diagram is subject to change without notice.