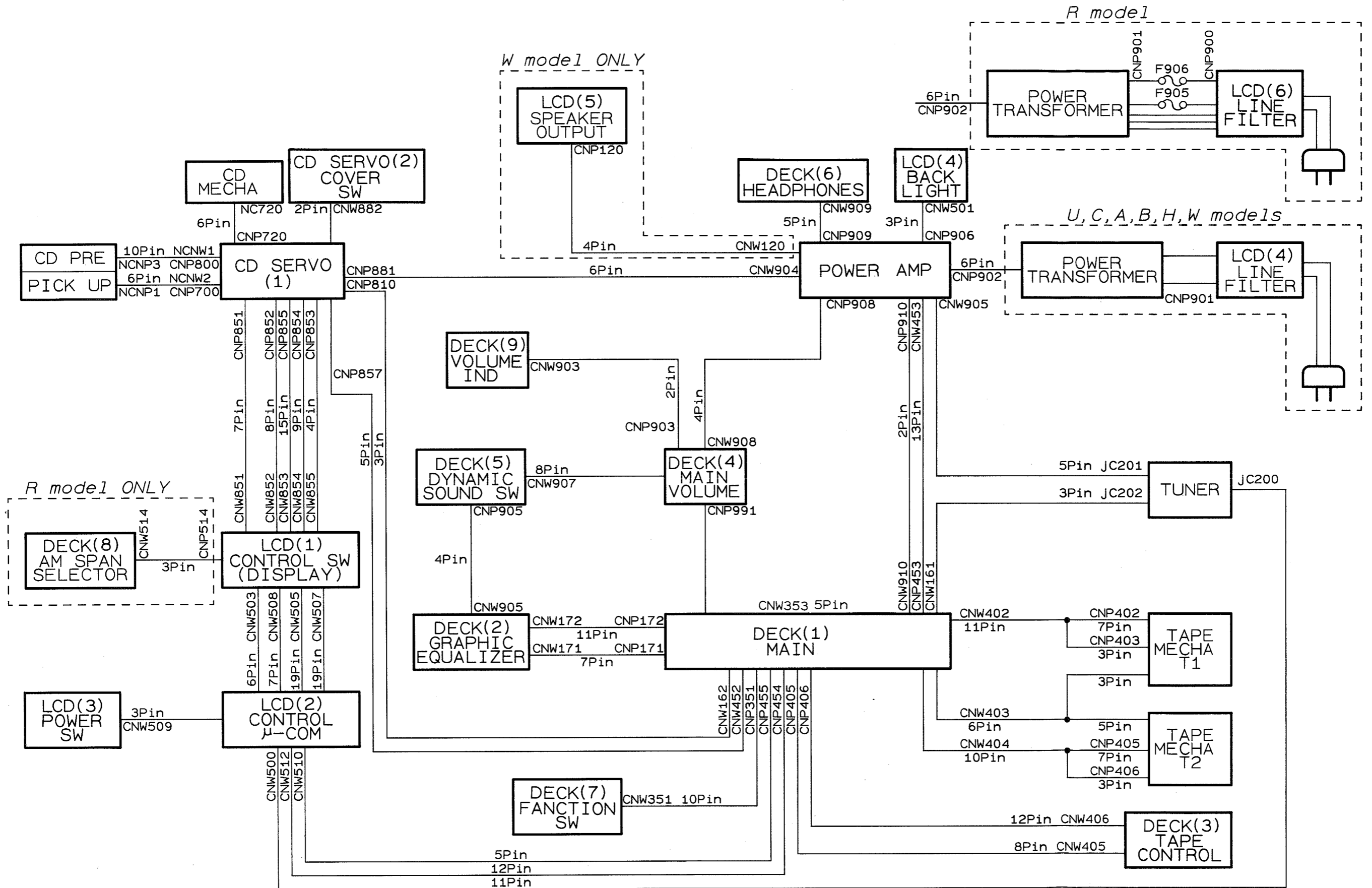


INTERCONNECT WIRING DIAGRAM



PRINTED CIRCUIT BOARD (Parts side)

DECK (1)

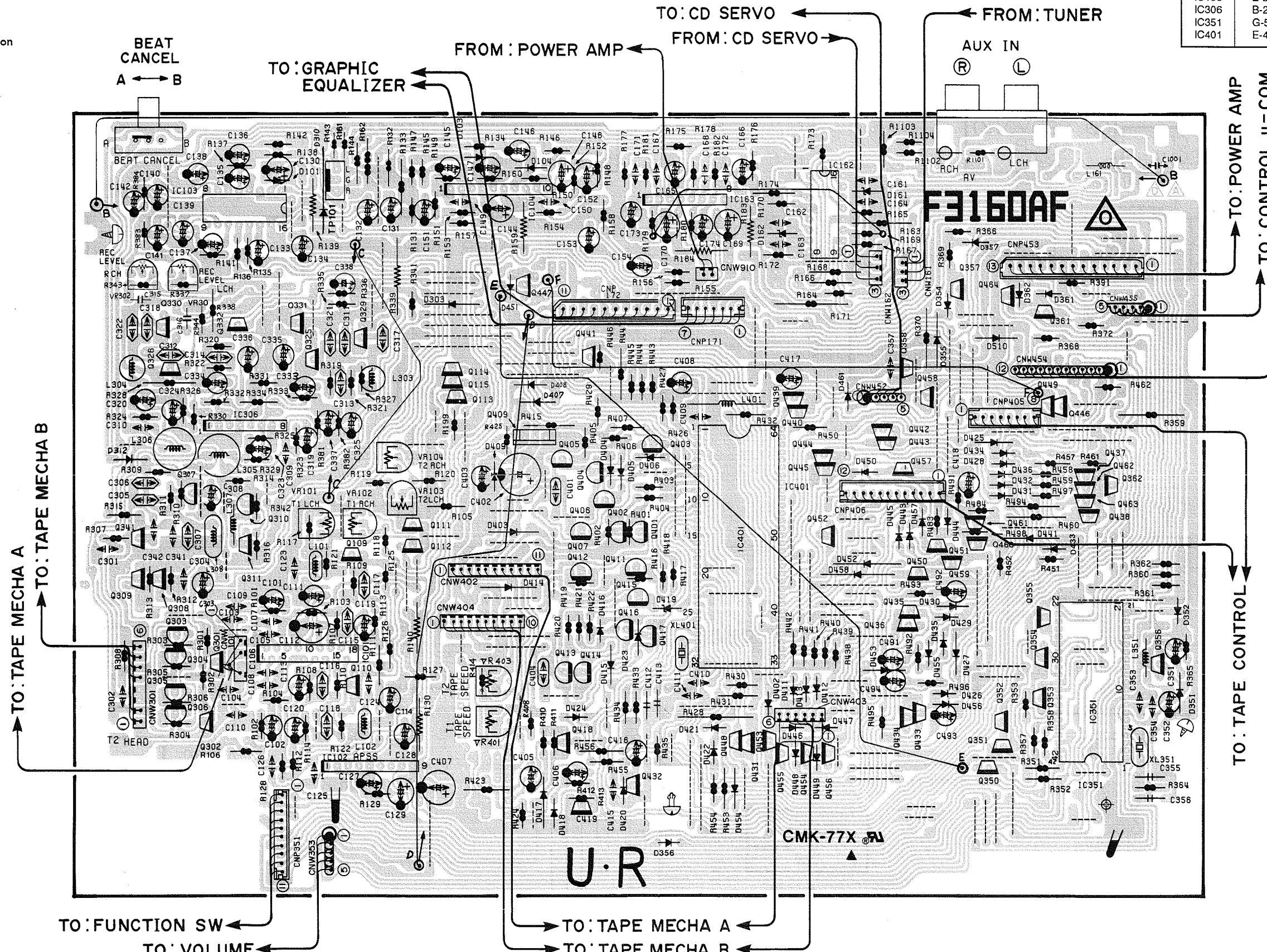
MAIN Circuit Board ..... U, R models

● Semiconductor Location

Ref. No.	Location	Ref. No.	Location
IC102	C-5	Q109	C-4
IC103	B-2	Q110	C-5
IC104	D-2	Q111	C-4
IC106	C-4	Q112	C-4
IC162	E-2	Q113	C-3
IC163	E-2	Q114	C-3
IC306	B-2	Q115	C-3
IC351	G-5	Q301	B-4
IC401	F-4	Q302	B-5
		Q303	B-4
		Q304	B-4
		Q305	B-5
		Q306	B-5
		Q307	B-4
		Q308	B-4
		Q309	B-4
		Q310	C-4
		Q311	C-4
		Q325	C-3
		Q329	C-3
		Q330	B-3
		Q331	C-3
		Q332	B-3
		Q341	B-4
		Q350	F-5
		Q351	F-5
		Q352	F-5
		Q353	F-5
		Q354	F-4
		Q355	F-4
		Q356	G-4
		Q357	F-3
		Q358	F-3
		Q361	F-3
		Q362	G-4
		Q401	D-4
		Q402	D-4
		Q403	D-3
		Q404	D-4
		Q405	D-3
		Q406	D-4
		Q407	D-4
		Q409	D-3
		Q411	D-4
		Q412	D-4
		Q413	D-5
		Q414	D-5
		Q415	D-4
		Q416	D-4
		Q417	D-4
		Q418	D-5
		Q419	D-5
		Q431	E-5
		Q432	D-5
		Q433	F-5
		Q434	F-5
		Q435	F-4
		Q436	F-4
		Q437	G-4
		Q438	G-4
		Q439	E-3
		Q440	E-3
		Q441	D-3
		Q442	F-3
		Q443	F-3
		Q444	E-3
		Q445	E-3
		Q446	F-3
		Q447	D-3
		Q448	E-5
		Q449	F-3
		Q450	F-4
		Q451	F-4
		Q452	E-4
		Q453	E-5
		Q454	E-5
		Q455	E-5
		Q456	E-5
		Q457	F-3
		Q458	F-3
		Q459	F-4
		Q460	F-4
		Q462	G-4
		Q463	G-4
		Q464	F-3

● Semiconductor Location

Ref. No.	Location
D101	C-2
D103	D-2
D104	D-2
D161	E-2
D162	E-2
D303	C-3
D310	C-2
D312	B-3
D326	B-3
D351	G-5
D352	G-4
D354	F-3
D355	F-3
D356	E-5
D357	F-2
D361	F-3
D362	F-3
D402	E-5
D403	D-4
D404	D-4
D405	D-4
D406	D-3
D407	D-3
D408	D-3
D409	D-4
D411	E-5
D412	E-5
D413	E-5
D414	D-4
D415	D-4
D416	D-4
D417	D-5
D418	D-5
D419	E-4
D420	D-5
D421	E-5
D422	E-5
D424	D-5
D425	E-3
D426	F-5
D427	F-4
D428	F-3
D429	F-4
D430	F-4
D431	F-4
D432	F-4
D433	F-4
D434	F-3
D435	F-4
D436	F-4
D441	F-4
D443	F-4
D444	F-4
D445	F-4
D446	E-5
D447	E-5
D448	E-5
D449	E-5
D450	E-4
D451	D-3
D452	F-4
D453	F-5
D454	E-5
D457	F-4
D458	E-4
D461	F-4
D510	F-3



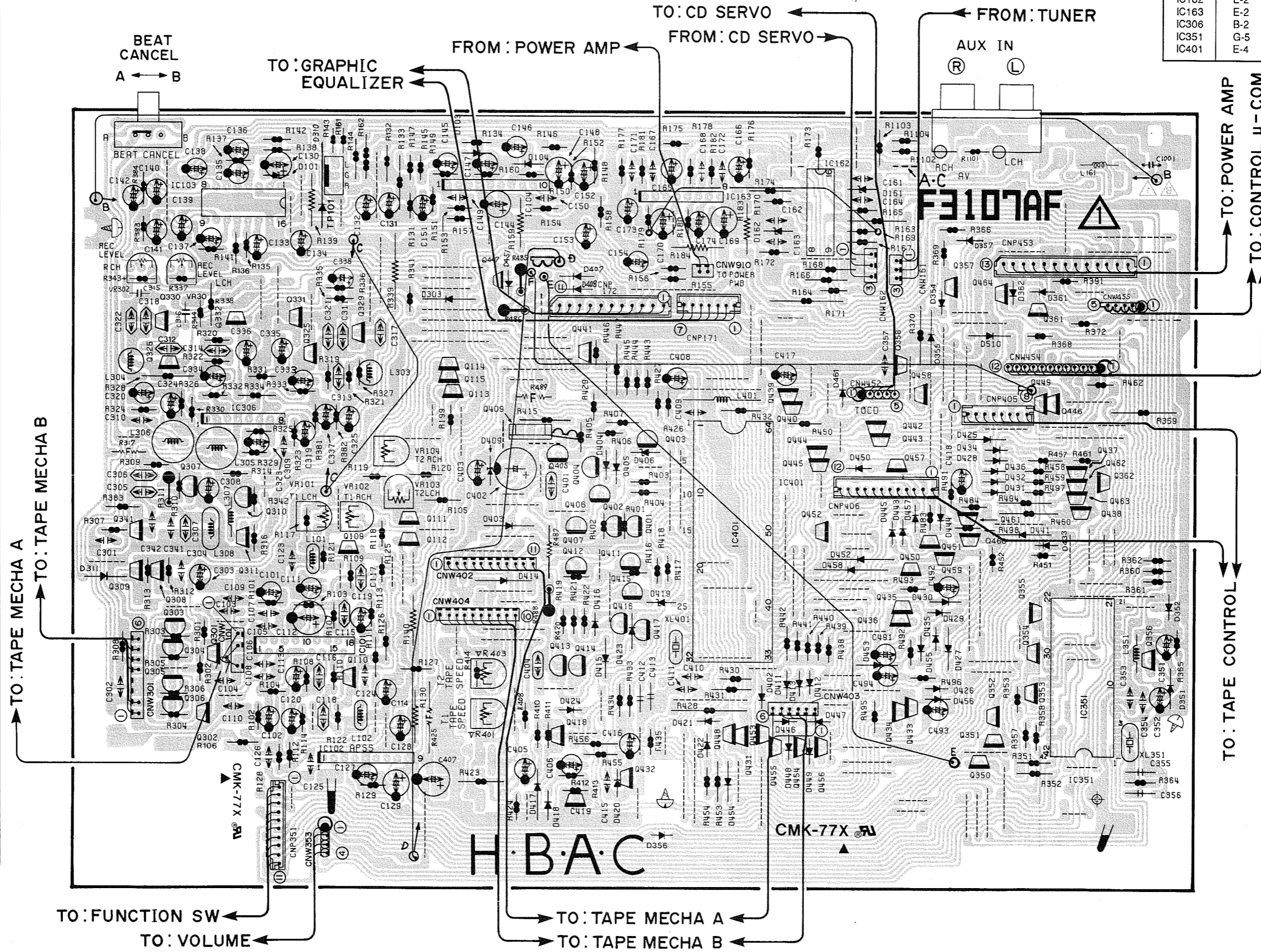
PRINTED CIRCUIT BOARD (Parts side)

● Semiconductor Location

● Semiconductor Location

Ref. No.	Location
D101	C-2
D103	D-2
D104	D-2
D161	E-2
D162	E-2
D303	C-3
D310	C-2
D312	B-3
D326	B-3
D351	G-5
D352	G-4
D354	F-3
D355	F-3
D356	E-5
D357	F-2
D361	F-3
D362	F-3
D402	E-5
D403	D-4
D404	D-4
D405	D-4
D406	D-3
D407	D-3
D408	D-3
D409	D-4
D411	E-5
D412	E-5
D413	E-5
D414	D-4
D415	D-4
D416	D-4
D417	D-5
D418	D-5
D419	E-4
D420	D-5
D421	E-5
D422	E-5
D424	D-5
D425	E-3
D426	F-5
D427	F-4
D428	F-3
D429	F-4
D430	F-4
D431	F-4
D432	F-4
D433	F-4
D434	F-3
D435	F-4
D436	F-4
D441	F-4
D443	F-4
D444	F-4
D445	F-4
D446	E-5
D447	F-5
D448	E-5
D449	E-5
D450	F-4
D451	D-3
D452	F-4
D453	F-5
D454	E-5
D457	F-4
D458	E-4
D461	F-4
D510	F-3

Ref. No.	Location	Ref. No.	Location
IC102	C-5	Q109	C-4
IC103	B-2	Q110	C-5
IC104	D-2	Q111	C-4
IC106	C-4	Q112	C-4
IC162	E-2	Q113	C-3
IC163	E-2	Q114	C-3
IC306	B-2	Q115	C-3
IC351	G-5	Q301	B-4
IC401	E-4	Q302	B-5
		Q303	B-4
		Q304	B-4
		Q305	B-5
		Q306	B-5
		Q307	B-4
		Q308	B-4
		Q309	B-4
		Q310	C-4
		Q311	C-4
		Q325	C-3
		Q329	C-3
		Q330	B-3
		Q331	C-3
		Q332	B-3
		Q341	B-4
		Q350	F-5
		Q351	F-5
		Q352	F-5
		Q353	F-5
		Q354	F-4
		Q355	F-4
		Q356	G-4
		Q357	F-3
		Q358	F-3
		Q361	F-3
		Q362	G-4
		Q401	D-4
		Q402	D-4
		Q403	D-3
		Q404	D-4
		Q405	D-3
		Q406	D-4
		Q407	D-4
		Q409	D-3
		Q411	D-4
		Q412	D-4
		Q413	D-5
		Q414	D-5
		Q415	D-4
		Q416	D-4
		Q417	D-4
		Q418	D-5
		Q419	D-5
		Q431	E-5
		Q432	D-5
		Q433	F-5
		Q434	F-5
		Q435	F-4
		Q436	F-4
		Q437	G-4
		Q438	G-4
		Q439	E-3
		Q440	E-3
		Q441	D-3
		Q442	F-3
		Q443	F-3
		Q444	E-3
		Q445	E-3
		Q446	F-3
		Q447	D-3
		Q448	E-5
		Q449	F-3
		Q450	F-4
		Q451	F-4
		Q452	E-4
		Q453	E-5
		Q454	E-5
		Q455	E-5
		Q456	E-5
		Q457	F-3
		Q458	F-3
		Q459	F-4
		Q460	F-4
		Q462	G-4
		Q463	G-4
		Q464	F-3



PRINTED CIRCUIT BOARD (Parts side)

DECK (1)

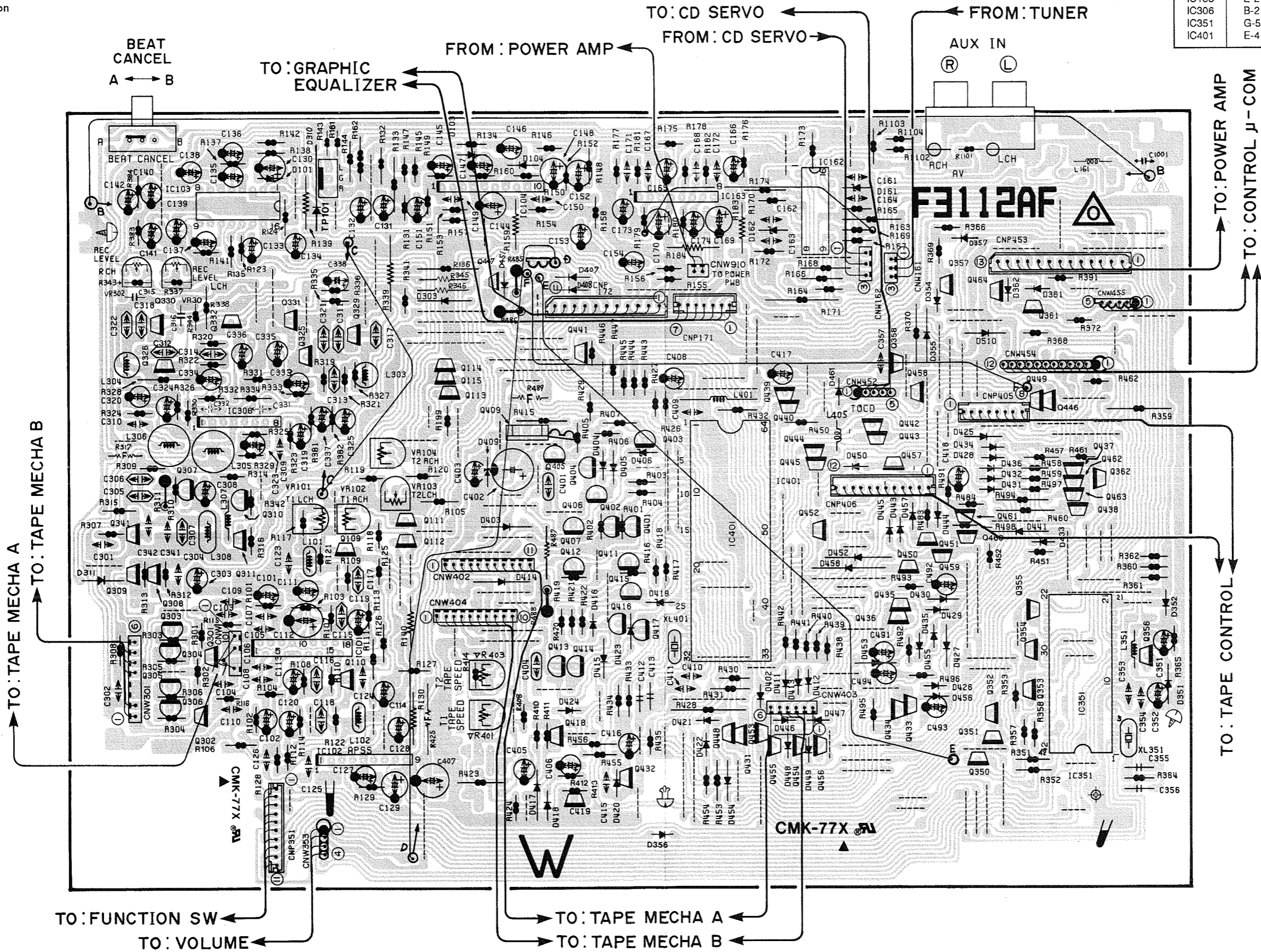
MAIN Circuit Board ..... W model

● Semiconductor Location

● Semiconductor Location

Ref. No.	Location
D101	C-2
D103	D-2
D104	D-2
D161	E-2
D162	E-2
D303	C-3
D310	C-2
D312	B-3
D326	B-3
D351	G-5
D352	G-4
D354	F-3
D355	F-3
D356	E-5
D357	F-2
D361	F-3
D362	F-3
D402	E-5
D403	D-4
D404	D-4
D405	D-4
D406	D-3
D407	D-3
D408	D-3
D409	D-4
D411	E-5
D412	E-5
D413	E-5
D414	D-4
D415	D-4
D416	D-4
D417	D-5
D418	D-5
D419	E-4
D420	D-5
D421	E-5
D422	E-5
D424	D-5
D425	E-3
D426	F-5
D427	F-4
D428	F-3
D429	F-4
D430	F-4
D431	F-4
D432	F-4
D433	F-4
D434	F-3
D435	F-4
D436	F-4
D441	F-4
D443	F-4
D444	F-4
D445	F-4
D446	E-5
D447	E-5
D448	E-5
D449	E-5
D450	E-4
D451	D-3
D452	F-4
D453	F-5
D454	E-5
D457	F-4
D458	E-4
D461	F-4
D510	F-3

Ref. No.	Location	Ref. No.	Location
IC102	C-5	Q109	C-4
IC103	B-2	Q110	C-5
IC104	D-2	Q111	C-4
IC106	C-4	Q112	C-4
IC162	E-2	Q113	C-3
IC163	F-2	Q114	C-3
IC306	B-2	Q115	C-3
IC351	G-5	Q301	B-4
IC401	F-4	Q302	B-5
		Q303	B-4
		Q304	B-4
		Q305	B-5
		Q306	B-5
		Q307	B-4
		Q308	B-4
		Q309	B-4
		Q310	C-4
		Q311	C-4
		Q325	C-3
		Q329	C-3
		Q330	B-3
		Q331	C-3
		Q332	B-3
		Q341	B-4
		Q350	F-5
		Q351	F-5
		Q352	F-5
		Q353	F-5
		Q354	F-4
		Q355	F-4
		Q356	G-4
		Q357	F-3
		Q358	F-3
		Q361	F-3
		Q362	G-4
		Q401	D-4
		Q402	D-4
		Q403	D-3
		Q404	D-4
		Q405	D-3
		Q406	D-4
		Q407	D-4
		Q409	D-3
		Q411	D-4
		Q412	D-4
		Q413	D-5
		Q414	D-5
		Q415	D-4
		Q416	D-4
		Q417	D-4
		Q418	D-5
		Q419	D-5
		Q431	E-5
		Q432	D-5
		Q433	F-5
		Q434	F-5
		Q435	F-4
		Q436	F-4
		Q437	G-4
		Q438	G-4
		Q439	E-3
		Q440	E-3
		Q441	D-3
		Q442	F-3
		Q443	F-3
		Q444	E-3
		Q445	E-3
		Q446	F-3
		Q447	D-3
		Q448	E-5
		Q449	F-3
		Q450	F-4
		Q451	F-4
		Q452	E-4
		Q453	E-5
		Q454	E-5
		Q455	E-5
		Q456	E-5
		Q457	F-3
		Q458	F-3
		Q459	F-4
		Q460	F-4
		Q462	G-4
		Q463	G-4
		Q464	F-3

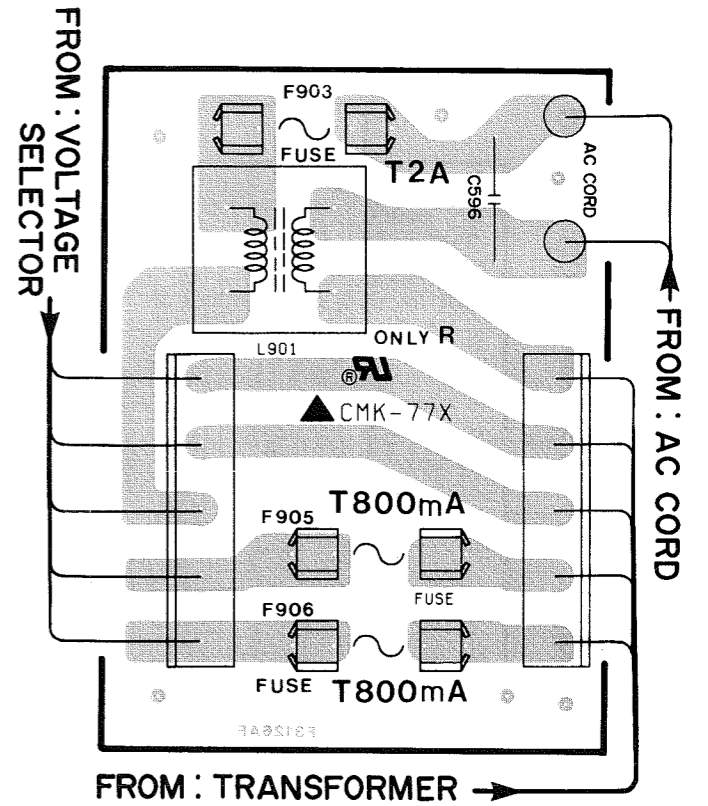
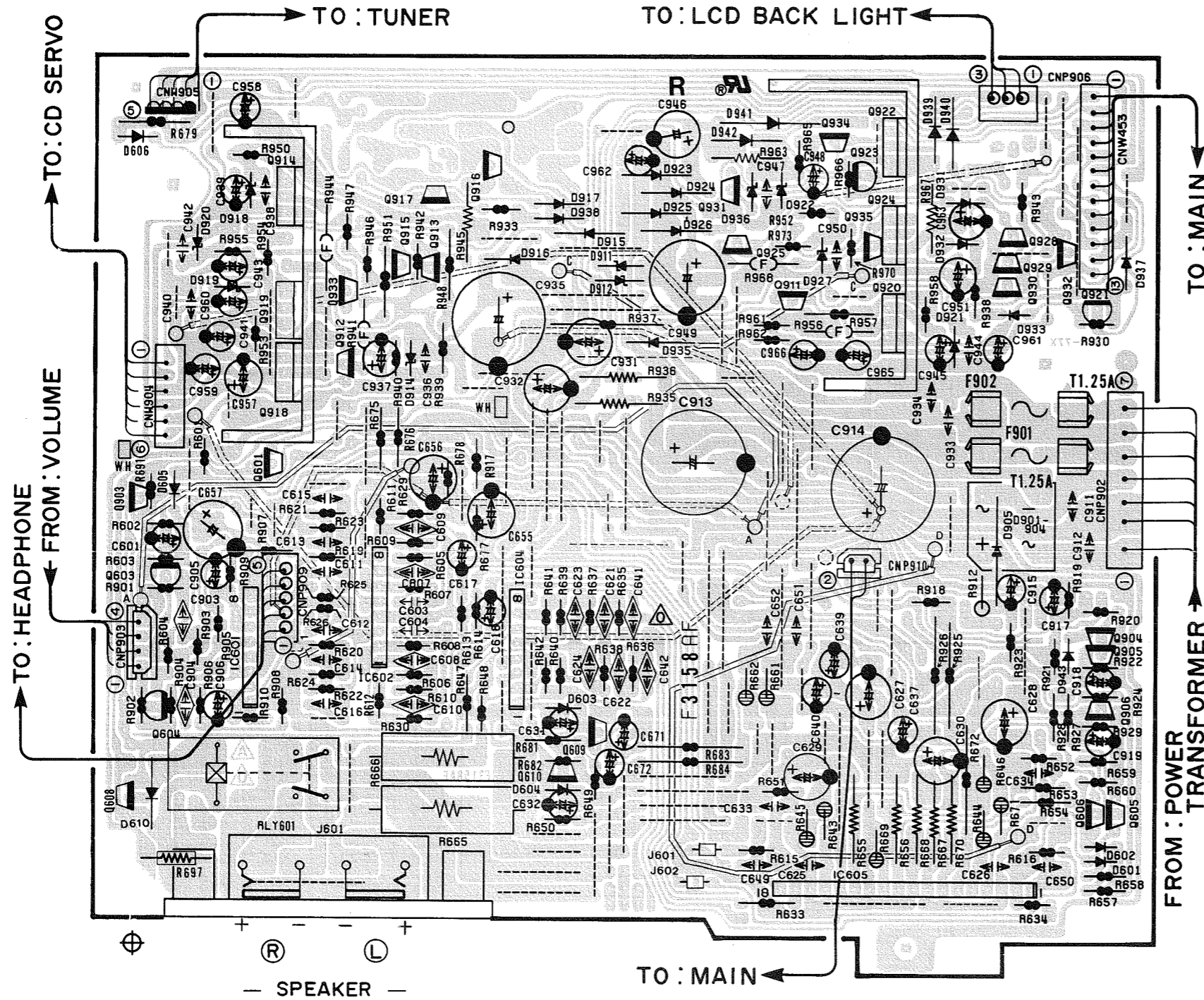


PRINTED CIRCUIT BOARD (Parts side)

POWER AMP Circuit Board ..... R model

LCD (6)

LINE FILTER Circuit Board ..... R model



Semiconductor Location

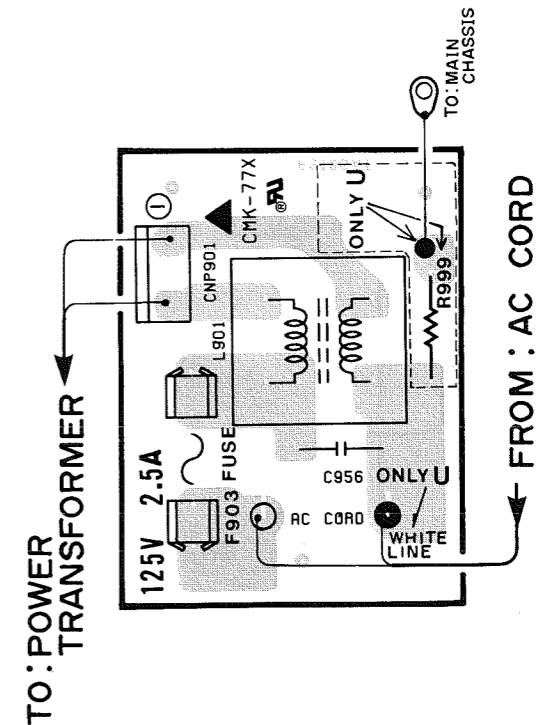
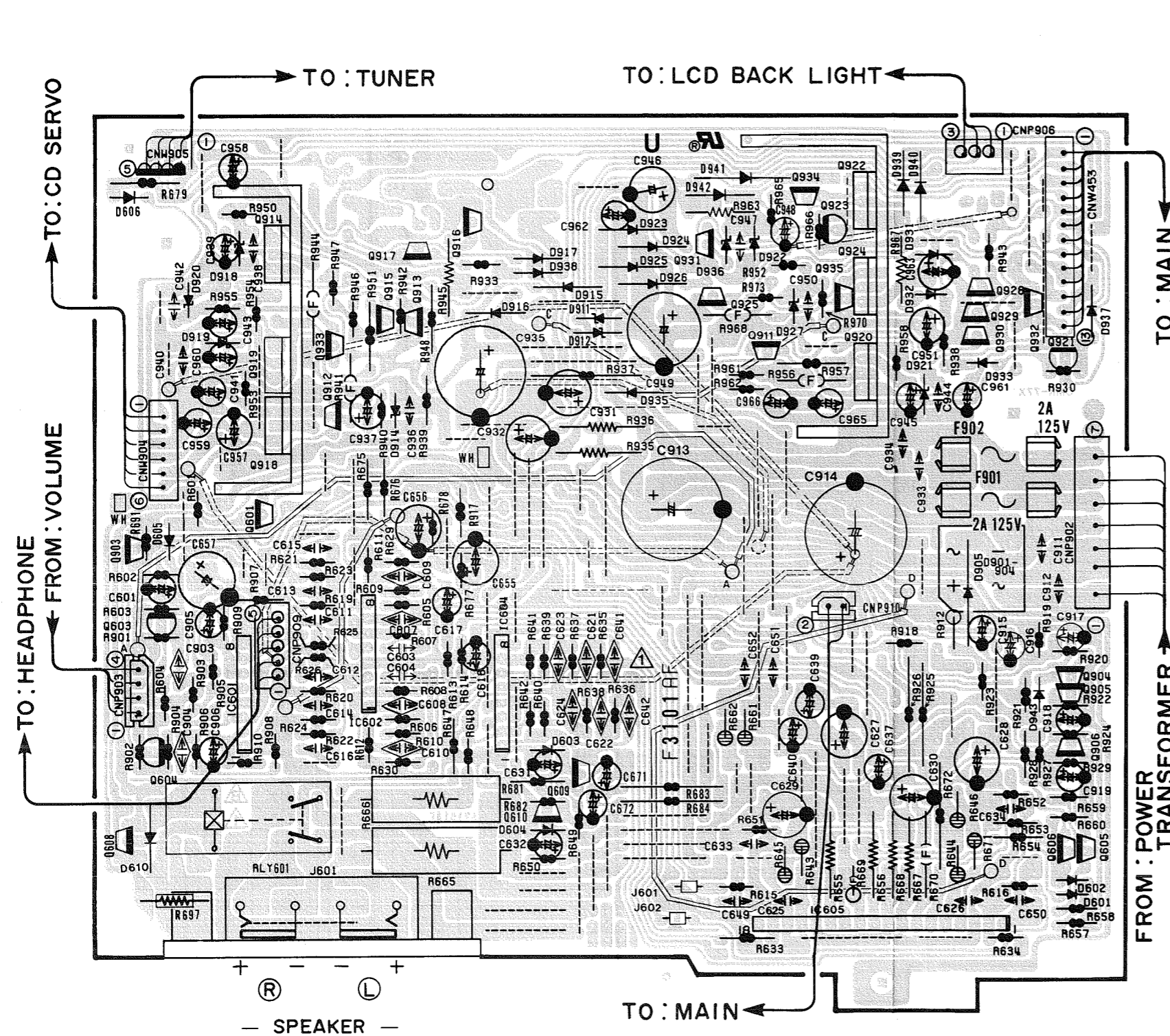
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
Q601	B-3	D601	E-5	IC601	B-4
Q603	B-4	D602	E-5	IC602	C-4
Q604	B-4	D603	C-4	IC604	C-4
Q605	E-5	D604	C-4	IC605	D-5
Q606	E-5	D605	B-3		
Q608	B-4	D606	B-2		
Q609	C-4	D905	E-3		
Q610	C-4	D911	C-2		
Q903	B-3	D912	C-3		
Q904	E-4	D914	C-3		
Q905	E-4	D915	C-2		
Q906	E-4	D916	C-2		
Q911	D-3	D917	C-2		
Q912	B-3	D918	B-2		
Q913	C-2	D919	B-3		
Q914	B-2	D920	B-2		
Q915	C-2	D921	E-3		
Q916	C-2	D922	D-2		
Q917	C-2	D923	D-2		
Q918	B-3	D924	D-2		
Q919	B-3	D925	D-2		
Q920	D-3	D926	D-2		
Q921	E-3	D927	D-2		
Q922	D-2	D931	E-2		
Q923	D-2	D932	E-2		
Q924	D-2	D933	E-3		
Q925	D-2	D935	D-3		
Q928	E-2	D936	D-2		
Q929	E-2	D937	E-2		
Q930	E-3	D938	C-2		
Q931	D-2	D939	E-2		
Q932	E-2	D940	E-2		
Q933	B-3	D941	D-2		
Q934	D-2	D942	D-2		
Q935	D-2	D943	E-4		

PRINTED CIRCUIT BOARD (Parts side)

POWER AMP Circuit Board ..... U model

LCD (4)

LINE FILTER Circuit Board ..... U, C models

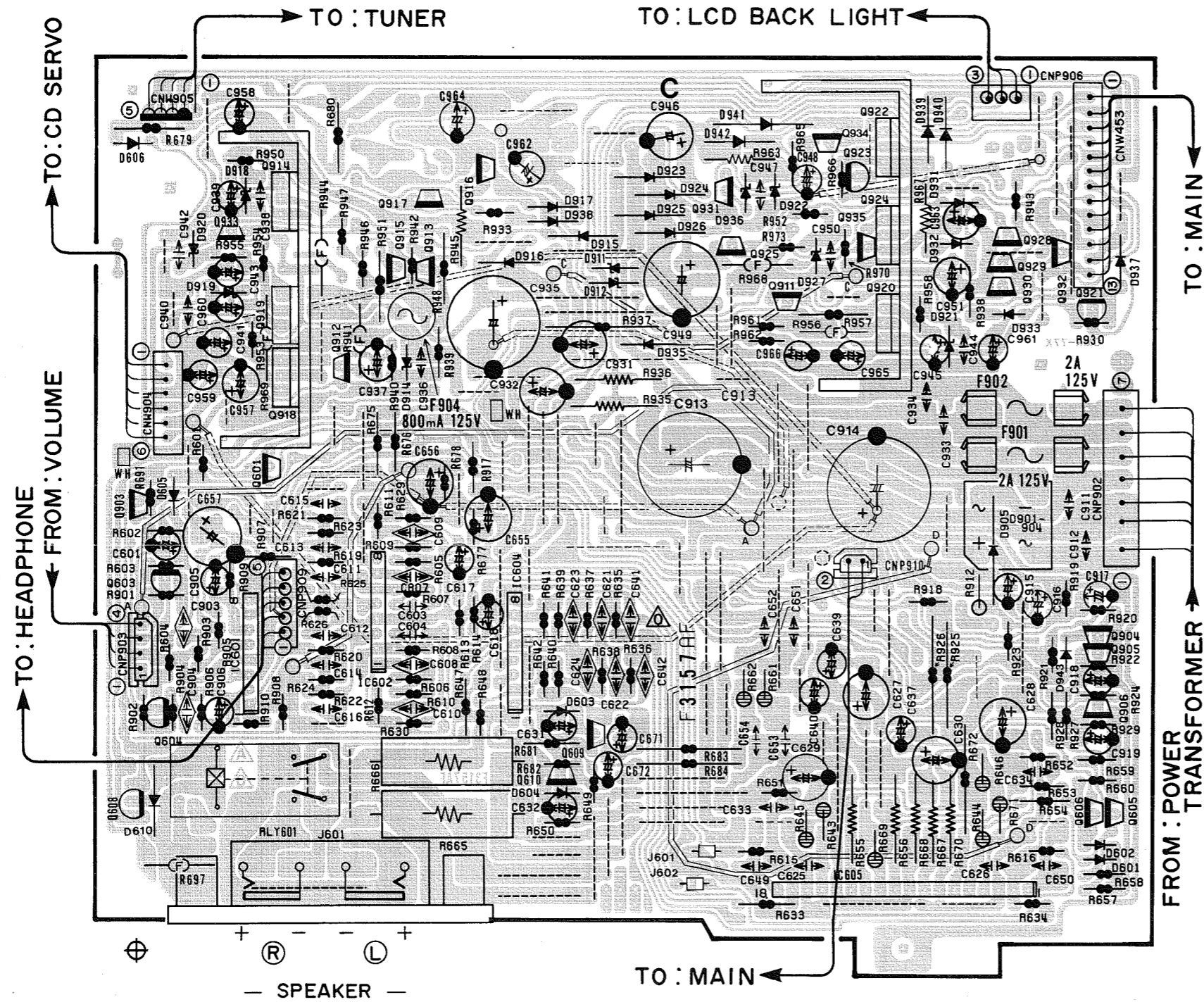


● Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
Q601	B-3	D601	E-5	IC601	B-4
Q603	B-4	D602	E-5	IC602	C-4
Q604	B-4	D603	C-4	IC604	C-4
Q605	E-5	D604	C-4	IC605	D-5
Q606	F-5	D605	B-3		
Q608	B-4	D606	B-2		
Q609	C-4	D905	E-3		
Q610	C-4	D911	C-2		
Q903	B-3	D912	C-3		
Q904	F-4	D914	C-3		
Q905	E-4	D915	C-2		
Q906	E-4	D916	C-2		
Q911	D-3	D917	C-2		
Q912	B-3	D918	B-2		
Q913	C-2	D919	B-3		
Q914	B-2	D920	B-2		
Q915	C-2	D921	E-3		
Q916	C-2	D922	D-2		
Q917	C-2	D923	D-2		
Q918	B-3	D924	D-2		
Q919	B-3	D925	D-2		
Q920	D-3	D926	D-2		
Q921	E-3	D927	D-2		
Q922	D-2	D931	E-2		
Q923	D-2	D932	E-2		
Q924	D-2	D933	E-3		
Q925	D-2	D935	D-3		
Q928	E-2	D936	D-2		
Q929	E-2	D937	E-2		
Q930	E-3	D938	C-2		
Q931	D-2	D939	E-2		
Q932	E-2	D940	E-2		
Q933	B-3	D941	D-2		
Q934	D-2	D942	D-2		
Q935	D-2	D943	E-4		

PRINTED CIRCUIT BOARD (Parts side)

POWER AMP Circuit Board ..... C model



● Semiconductor Location

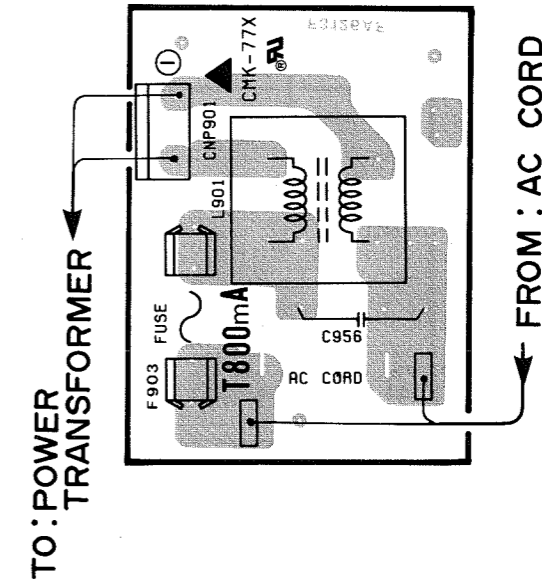
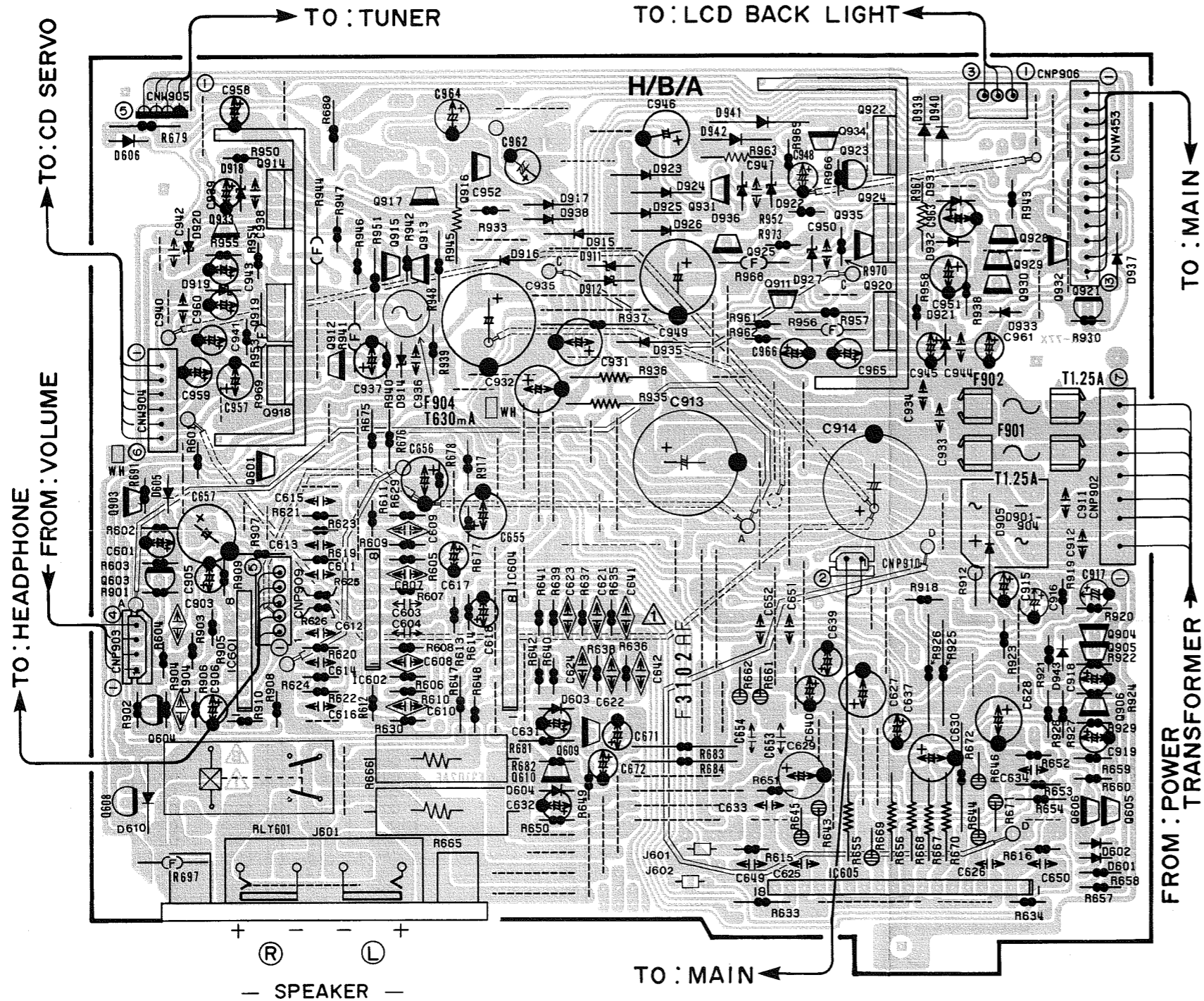
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
Q601	B-3	D601	E-5	IC601	B-4
Q603	B-4	D602	E-5	IC602	C-4
Q604	B-4	D603	C-4	IC604	C-4
Q605	E-5	D604	C-4	IC605	D-5
Q606	E-5	D605	B-3		
Q608	B-4	D606	B-2		
Q609	C-4	D905	E-3		
Q610	C-4	D911	C-2		
Q903	B-3	D912	C-3		
Q904	E-4	D914	C-3		
Q905	E-4	D915	C-2		
Q906	E-4	D916	C-2		
Q911	D-3	D917	C-2		
Q912	B-3	D918	B-2		
Q913	C-2	D919	B-3		
Q914	B-2	D920	B-2		
Q915	C-2	D921	E-3		
Q916	C-2	D922	D-2		
Q917	C-2	D923	D-2		
Q918	B-3	D924	D-2		
Q919	B-3	D925	D-2		
Q920	D-3	D926	D-2		
Q921	E-3	D927	D-2		
Q922	D-2	D931	E-2		
Q923	D-2	D932	E-2		
Q924	D-2	D933	E-3		
Q925	D-2	D935	D-3		
Q928	E-2	D936	D-2		
Q929	E-2	D937	E-2		
Q930	E-3	D938	C-2		
Q931	D-2	D939	E-2		
Q932	E-2	D940	E-2		
Q933	B-3	D941	D-2		
Q934	D-2	D942	D-2		
Q935	D-2	D943	E-4		

PRINTED CIRCUIT BOARD (Parts side)

POWER AMP Circuit Board ..... A, B, H model

LCD (4)

LINE FILTER Circuit Board ..... A, B, H, W models



● Semiconductor Location

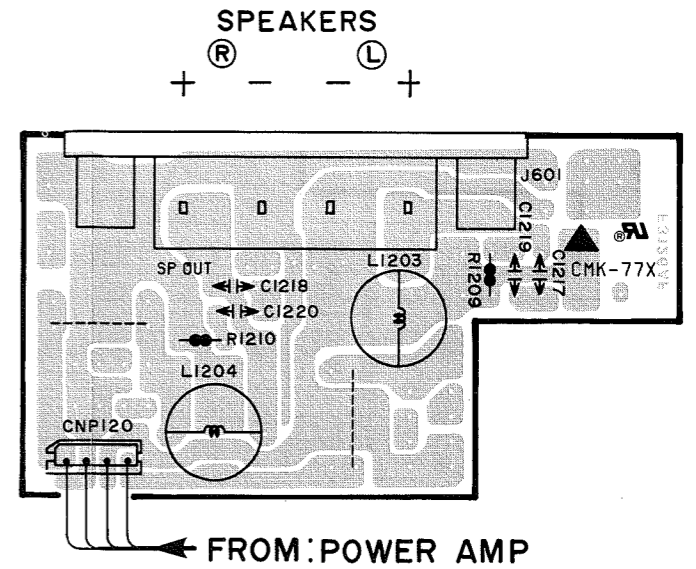
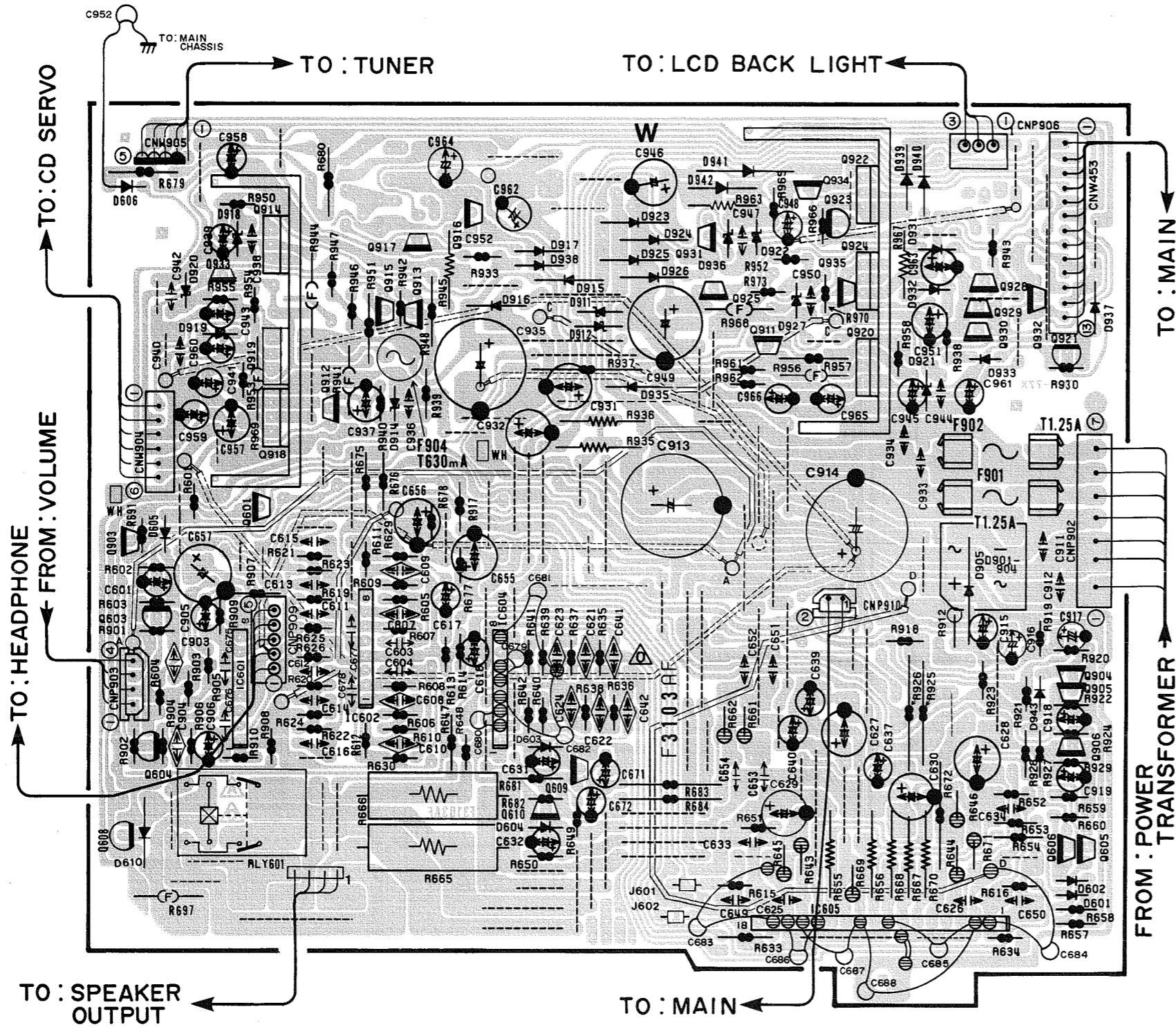
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
Q601	B-3	D601	E-5	IC601	B-4
Q603	B-4	D602	E-5	IC602	C-4
Q604	B-4	D603	C-4	IC604	C-4
Q605	E-5	D604	C-4	IC605	D-5
Q606	E-5	D605	B-3		
Q608	B-4	D606	B-2		
Q609	C-4	D905	E-3		
Q610	C-4	D911	C-2		
Q903	B-3	D912	C-3		
Q904	F-4	D914	C-3		
Q905	F-4	D915	C-2		
Q906	E-4	D916	C-2		
Q911	D-3	D917	C-2		
Q912	B-3	D918	B-2		
Q913	C-2	D919	B-3		
Q914	B-2	D920	B-2		
Q915	C-2	D921	E-3		
Q916	C-2	D922	D-2		
Q917	C-2	D923	D-2		
Q918	B-3	D924	D-2		
Q919	B-3	D925	D-2		
Q920	D-3	D926	D-2		
Q921	F-3	D927	D-2		
Q922	D-2	D931	E-2		
Q923	D-2	D932	E-2		
Q924	D-2	D933	E-3		
Q925	D-2	D935	D-3		
Q928	E-2	D936	D-2		
Q929	E-2	D937	E-2		
Q930	F-3	D938	C-2		
Q931	D-2	D939	E-2		
Q932	E-2	D940	E-2		
Q933	B-3	D941	D-2		
Q934	D-2	D942	D-2		
Q935	D-2	D943	E-4		

PRINTED CIRCUIT BOARD (Parts side)

POWER AMP Circuit Board ..... W model

LCD (5)

SPEAKER OUT Circuit Board ..... W model

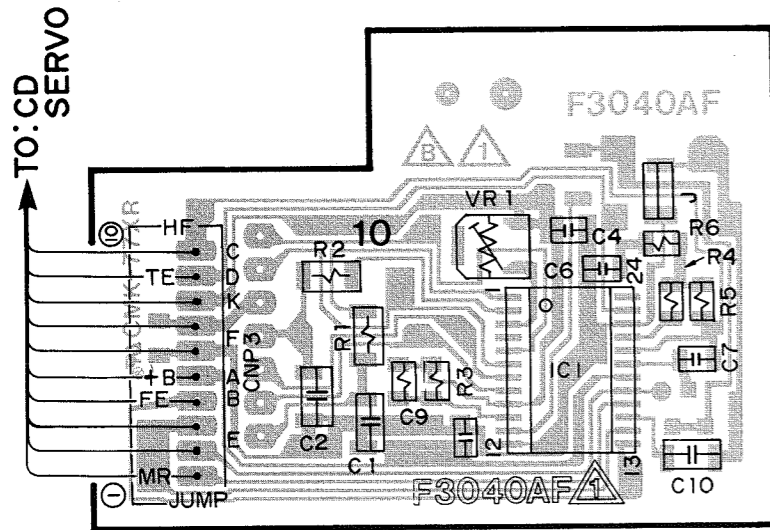


● Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
Q601	B-3	D601	E-5	IC601	B-4
Q603	B-4	D602	E-5	IC602	C-4
Q604	B-4	D603	C-4	IC604	C-4
Q605	E-5	D604	C-4	IC605	D-5
Q606	E-5	D605	B-3		
Q608	B-4	D606	B-2		
Q609	C-4	D905	E-3		
Q610	C-4	D911	C-2		
Q903	B-3	D912	C-3		
Q904	E-4	D914	C-3		
Q905	E-4	D915	C-2		
Q906	E-4	D916	C-2		
Q911	D-3	D917	C-2		
Q912	B-3	D918	B-2		
Q913	C-2	D919	B-3		
Q914	B-2	D920	B-2		
Q915	C-2	D921	E-3		
Q916	C-2	D922	D-2		
Q917	C-2	D923	D-2		
Q918	B-3	D924	D-2		
Q919	B-3	D925	D-2		
Q920	D-3	D926	D-2		
Q921	E-3	D927	D-2		
Q922	D-2	D931	E-2		
Q923	D-2	D932	E-2		
Q924	D-2	D933	E-3		
Q925	D-2	D935	D-3		
Q928	E-2	D936	D-2		
Q929	E-2	D937	E-2		
Q930	E-3	D938	C-2		
Q931	D-2	D939	E-2		
Q932	E-2	D940	E-2		
Q933	B-3	D941	D-2		
Q934	D-2	D942	D-2		
Q935	D-2	D943	E-4		

PRINTED CIRCUIT BOARD (Parts side)

CD PRE Circuit Board



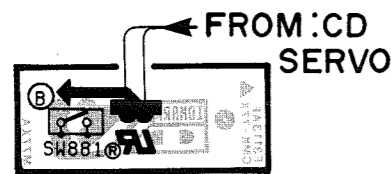
● Semiconductor Location

Ref. No.	Location
D750	E-2
D810	F-2
D811	F-2
D812	F-4
D890	F-4

Ref. No.	Location
IC700	D-4
IC720	F-3
IC740	E-4
IC750	E-2
IC780	F-2
IC781	E-2
IC810	G-2
IC811	G-2
IC812	G-2
IC813	G-2
IC851	G-4
IC860	G-3

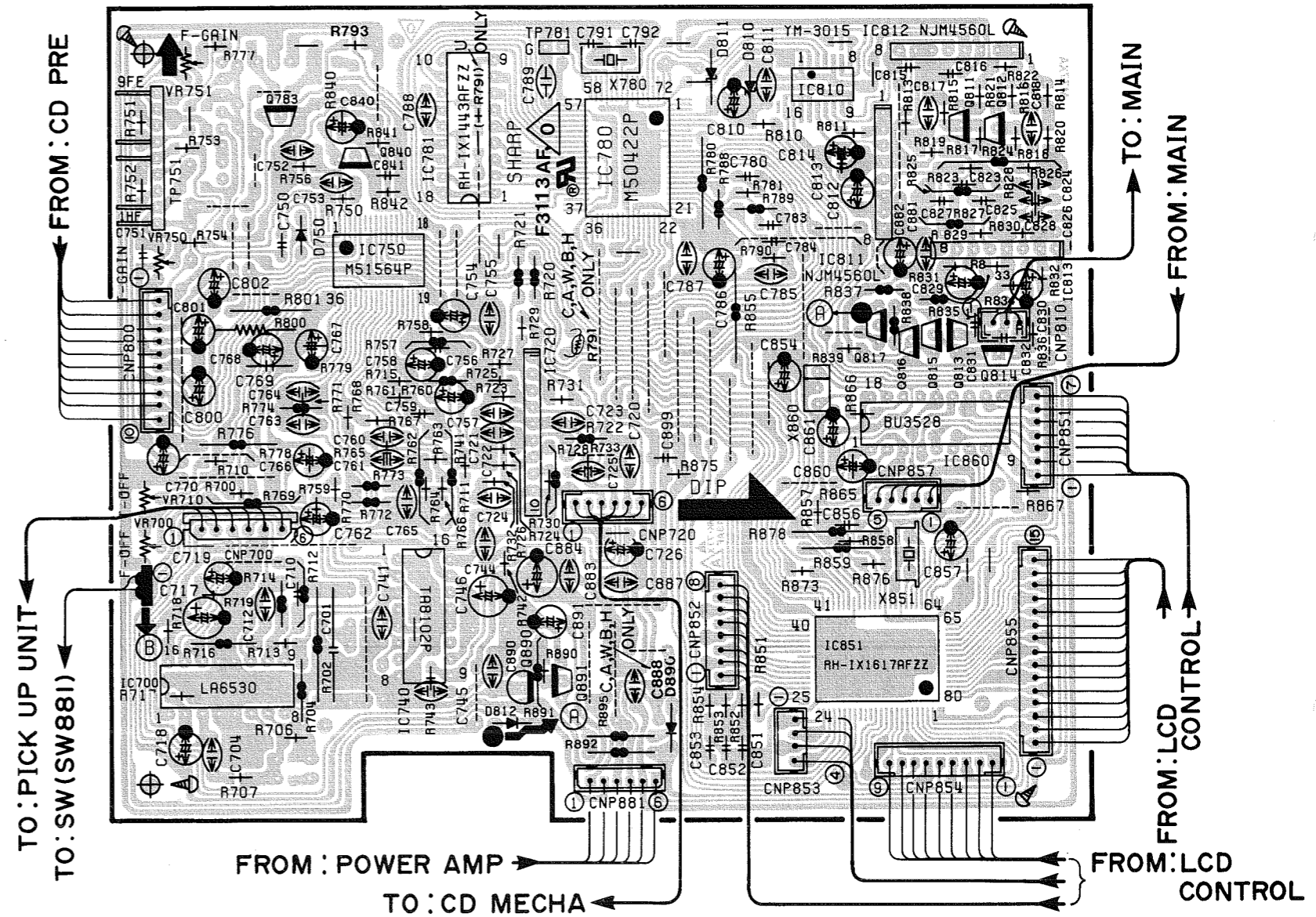
Ref. No.	Location
Q783	E-2
Q811	G-2
Q812	G-2
Q813	G-3
Q814	G-3
Q815	G-3
Q816	G-3
Q817	G-3
Q840	E-2
Q890	F-4
Q891	F-4

CD SERVO (2)  
CD SW Circuit Board



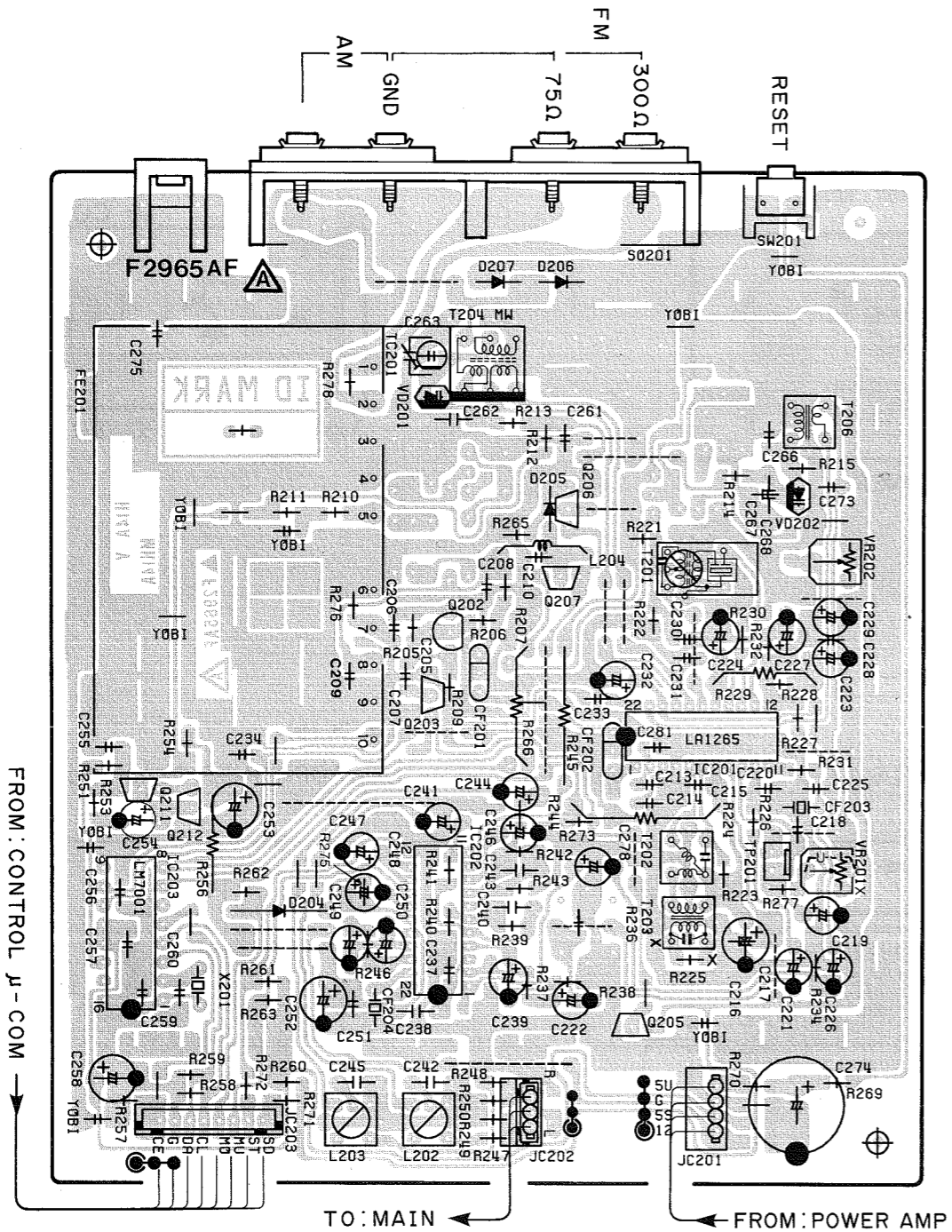
CD SERVO (1)

CD SERVO Circuit Board



PRINTED CIRCUIT BOARD (Parts side)

TUNER Circuit Board ..... U, C, R, A models



NOTE)

	U,C	R,A
VR201	SHORT	SET
T203	OPEN	SET
R225	OPEN	SET

● Semiconductor Location

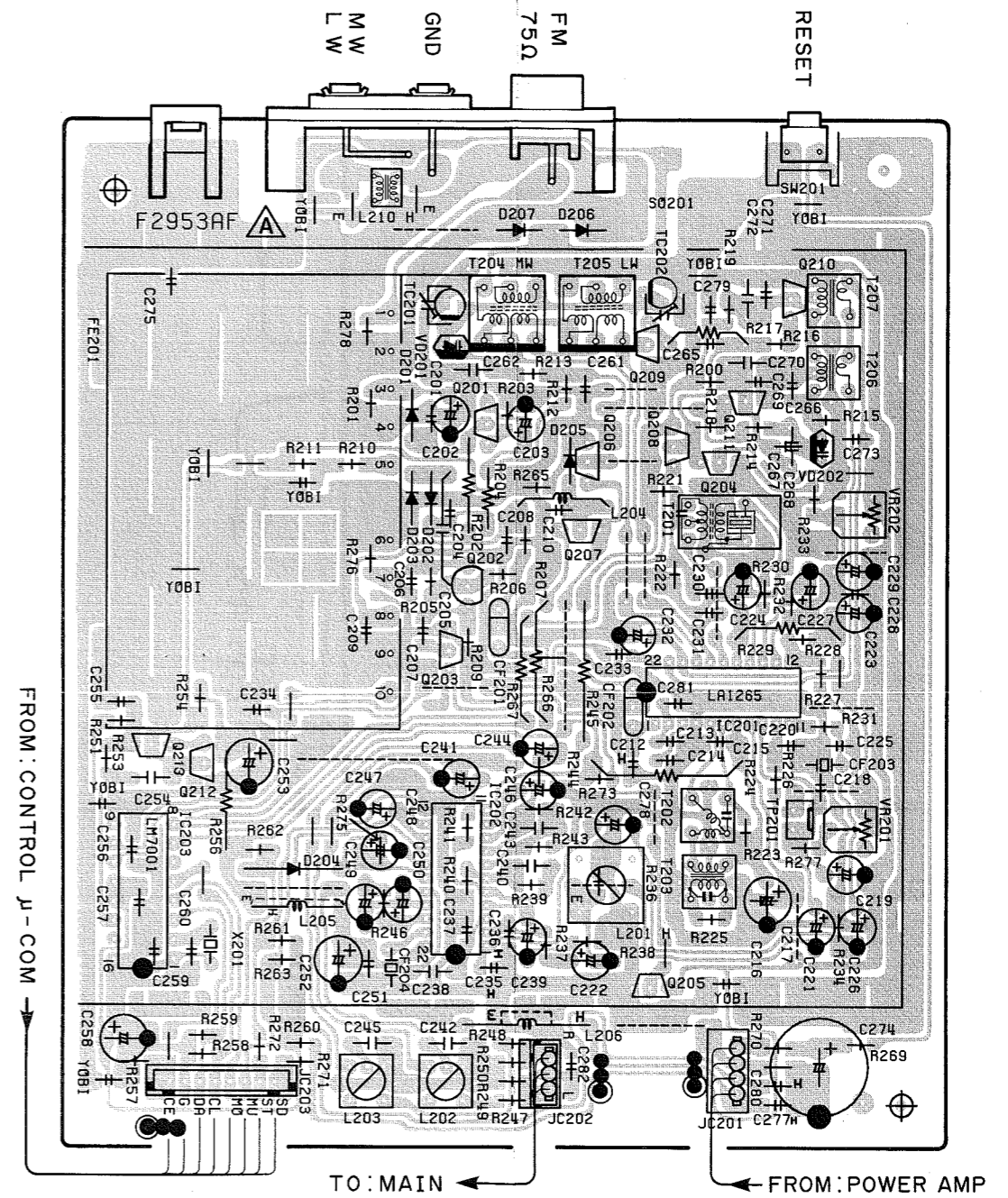
Ref. No.	U, C, R	A, B, H, W
D201		F-3
D202		F-3
D203		F-3
D204	B-4	F-4
D205		F-3
D206	C-2	F-2
D207	B-2	F-2

Ref. No.	U, C, R	A, B, H, W
IC201	C-4	G-4
IC203	A-4	E-4

Ref. No.	U, C, R	A, B, H, W
Q201		F-3
Q202	B-3	F-3
Q203	B-3	F-3
Q204		G-3
Q205	C-4	G-4
Q206	C-3	F-3
Q207	C-3	F-3
Q208		G-3
Q209		G-3
Q210		G-2
Q211	A-4	G-3
Q212	A-4	F-4
Q213		E-4

Ref. No.	U, C, R	A, B, H, W
VD201	B-3	F-3
VD202	C-3	G-3

TUNER Circuit Board ..... B, H, W models



NOTE)

	W	B	H
L210	SET	SHORT	SET
L201	SET	SHORT	SET
L211	SET	SHORT	SHORT
L205	SET	SHORT	SET
L206	SET	SHORT	SET
C212	33P	OPEN	33P
C235	68P	OPEN	68P
C236	22P	OPEN	22P
C277,280,282	0,022	OPEN	0,022



PRINTED CIRCUIT BOARD (Parts side)

1  
2  
3  
4  
5  
6

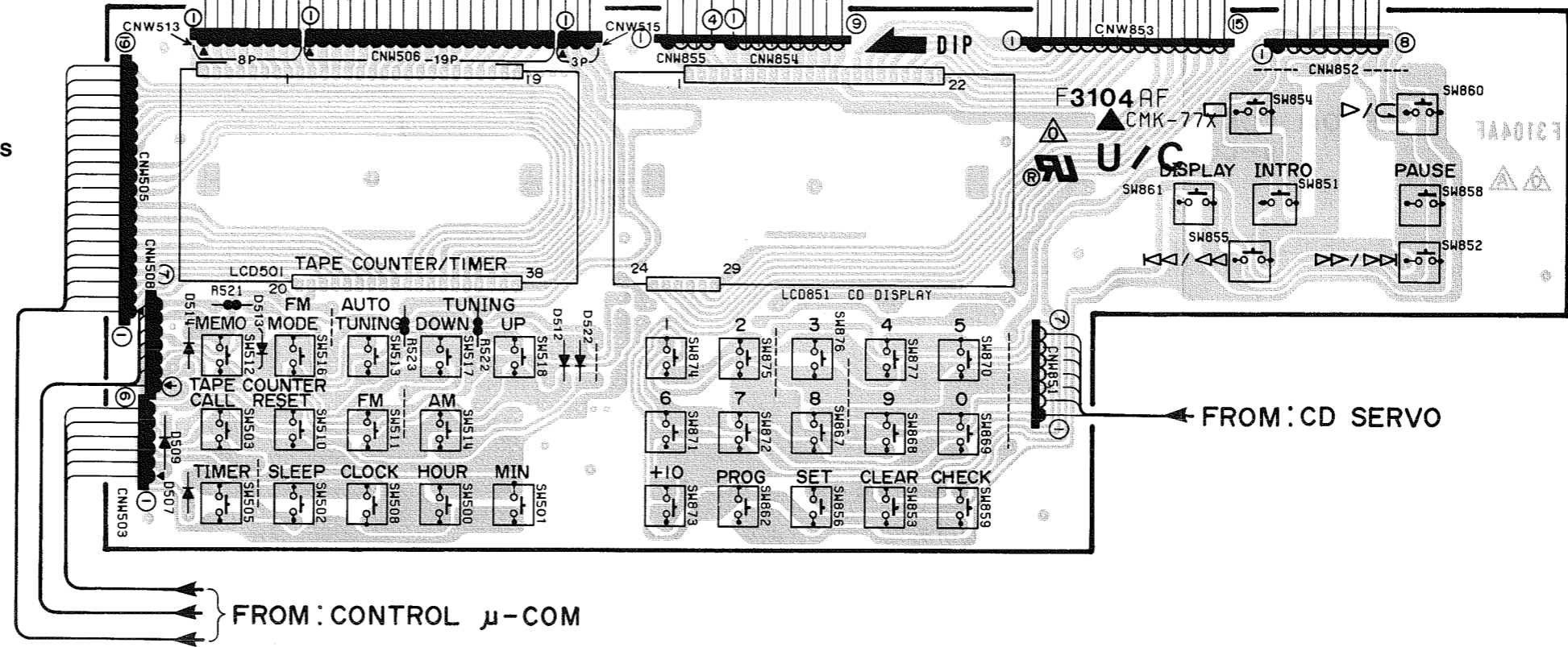
LCD (1)

LCD CONTROL SW Circuit Board

..... U, C models

FROM: CONTROL  $\mu$ -COM

FROM: CD SERVO



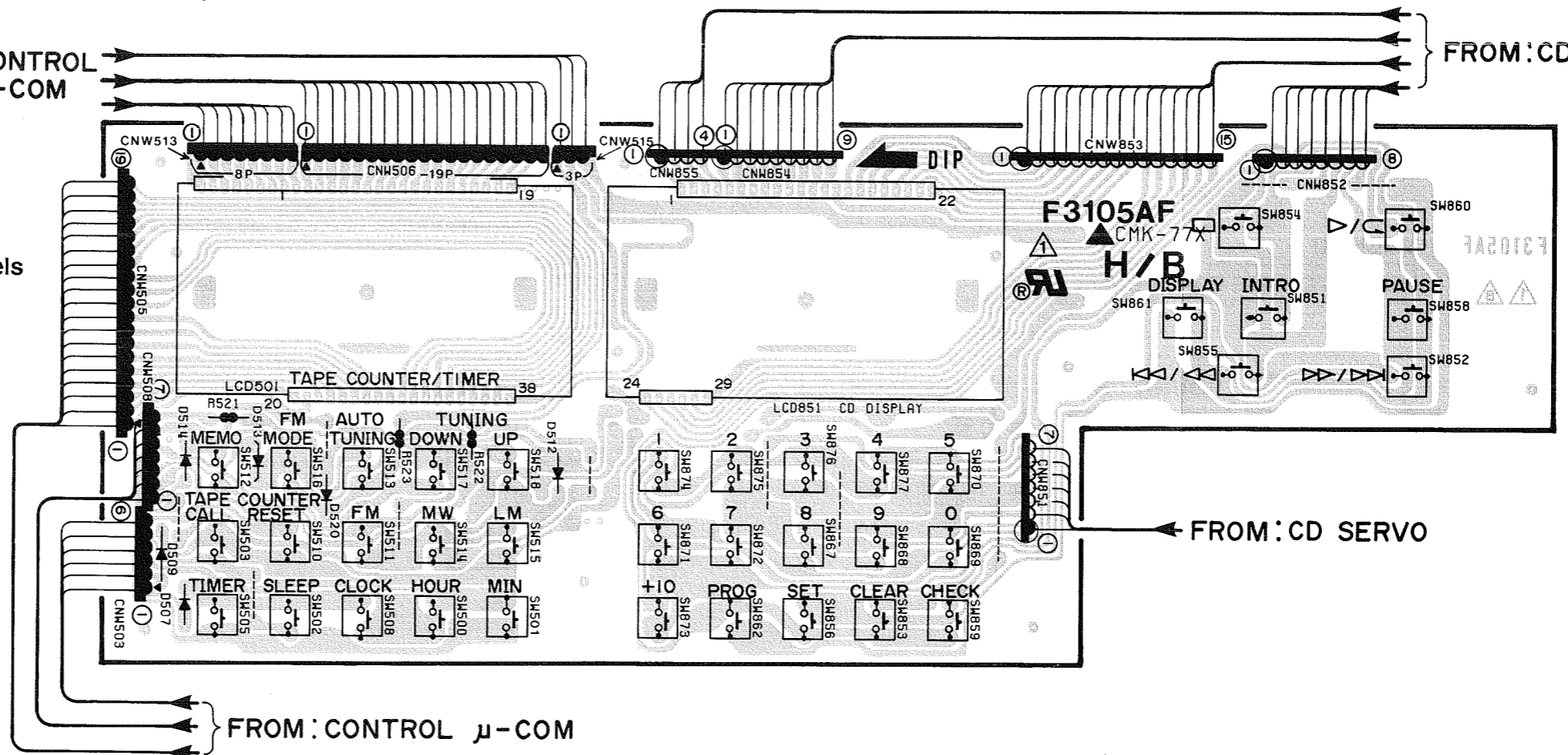
LCD (1)

LCD CONTROL SW Circuit Board

..... B, H, W models

FROM: CONTROL  $\mu$ -COM

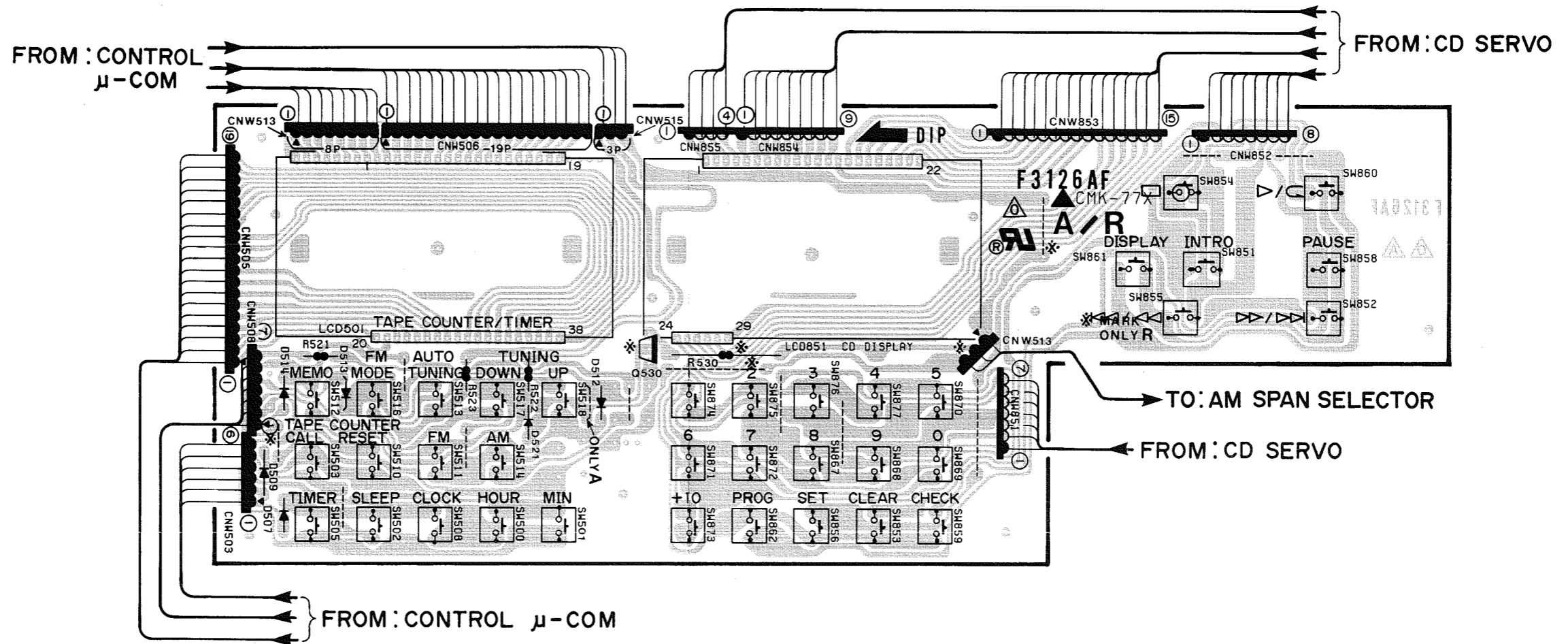
FROM: CD SERVO



PRINTED CIRCUIT BOARD (Parts side)

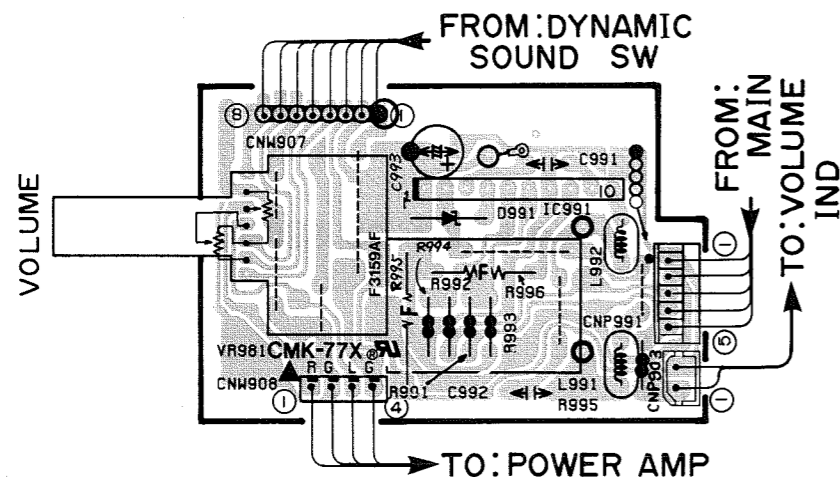
LCD (1)

LCD CONTROL SW Circuit Board ..... R, A models



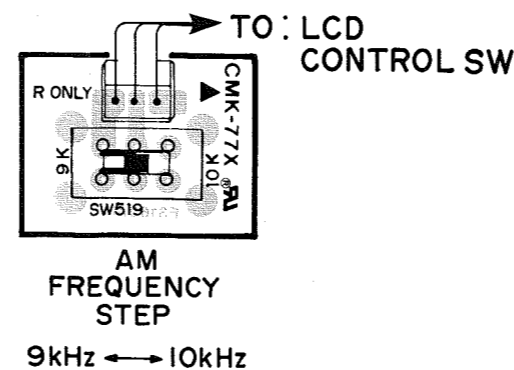
DECK (4)

MAIN VOLUME Circuit Board



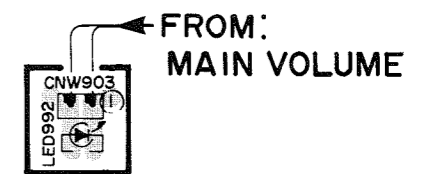
DECK (8)

AM SPAN SELECTOR Circuit Board ..... R model only



DECK (9)

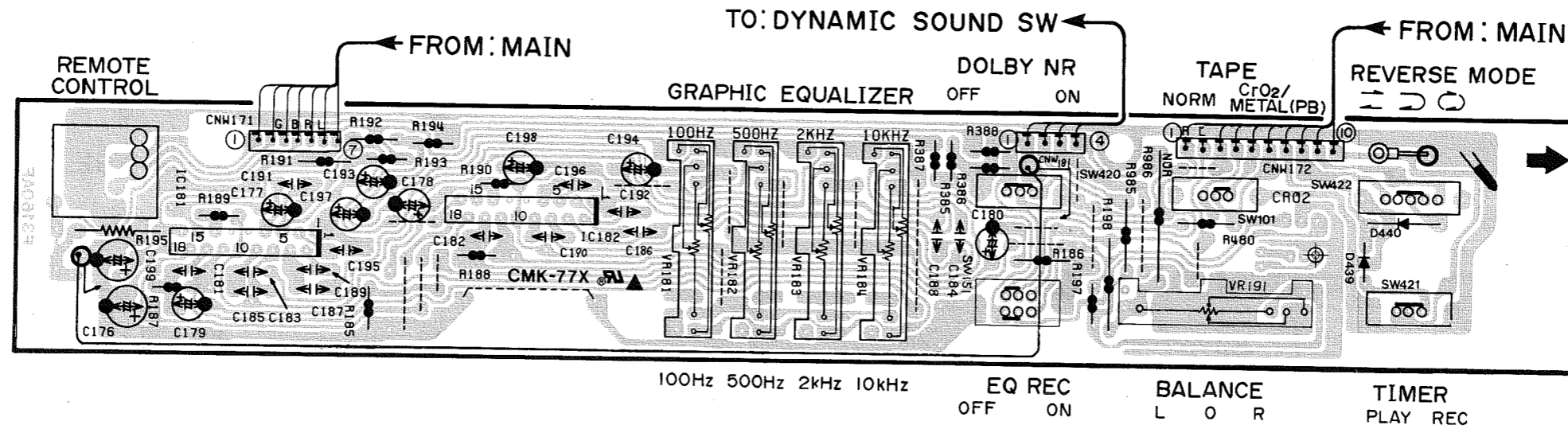
VOLUME IND Circuit Board



PRINTED CIRCUIT BOARD (Parts side)

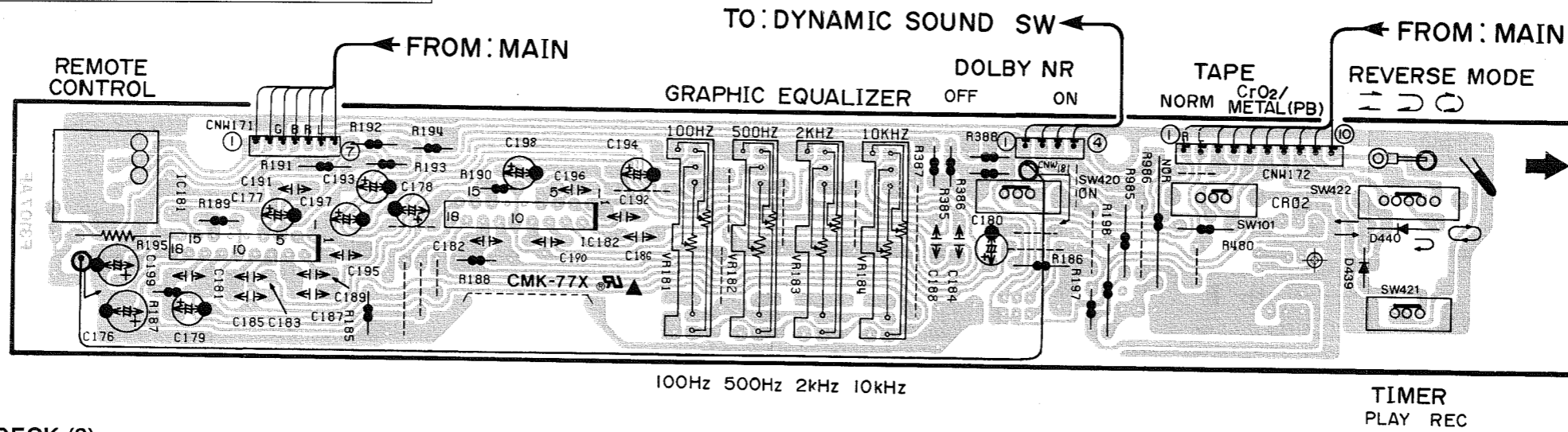
DECK (2)

GRAPHIC EQUALIZER Circuit Board ..... Except W model



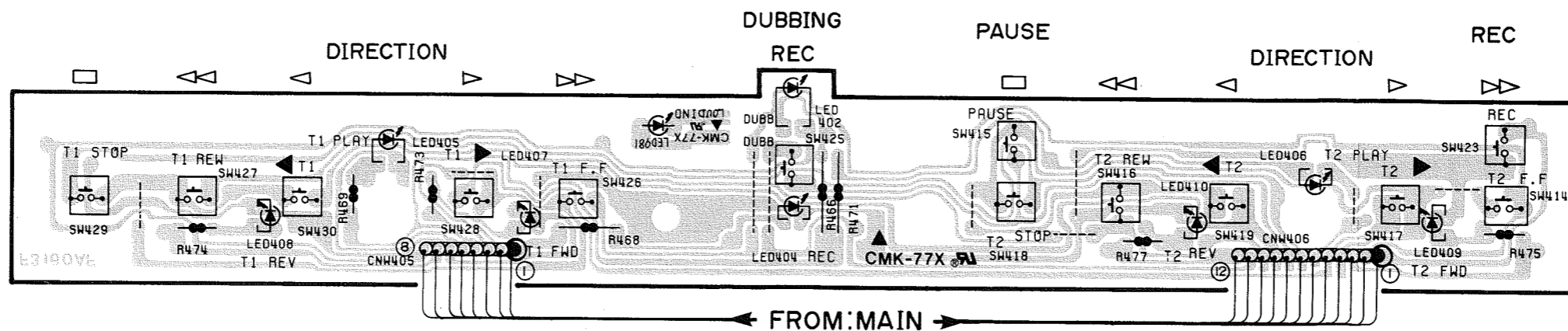
DECK (2)

GRAPHIC EQUALIZER Circuit Board ..... W model



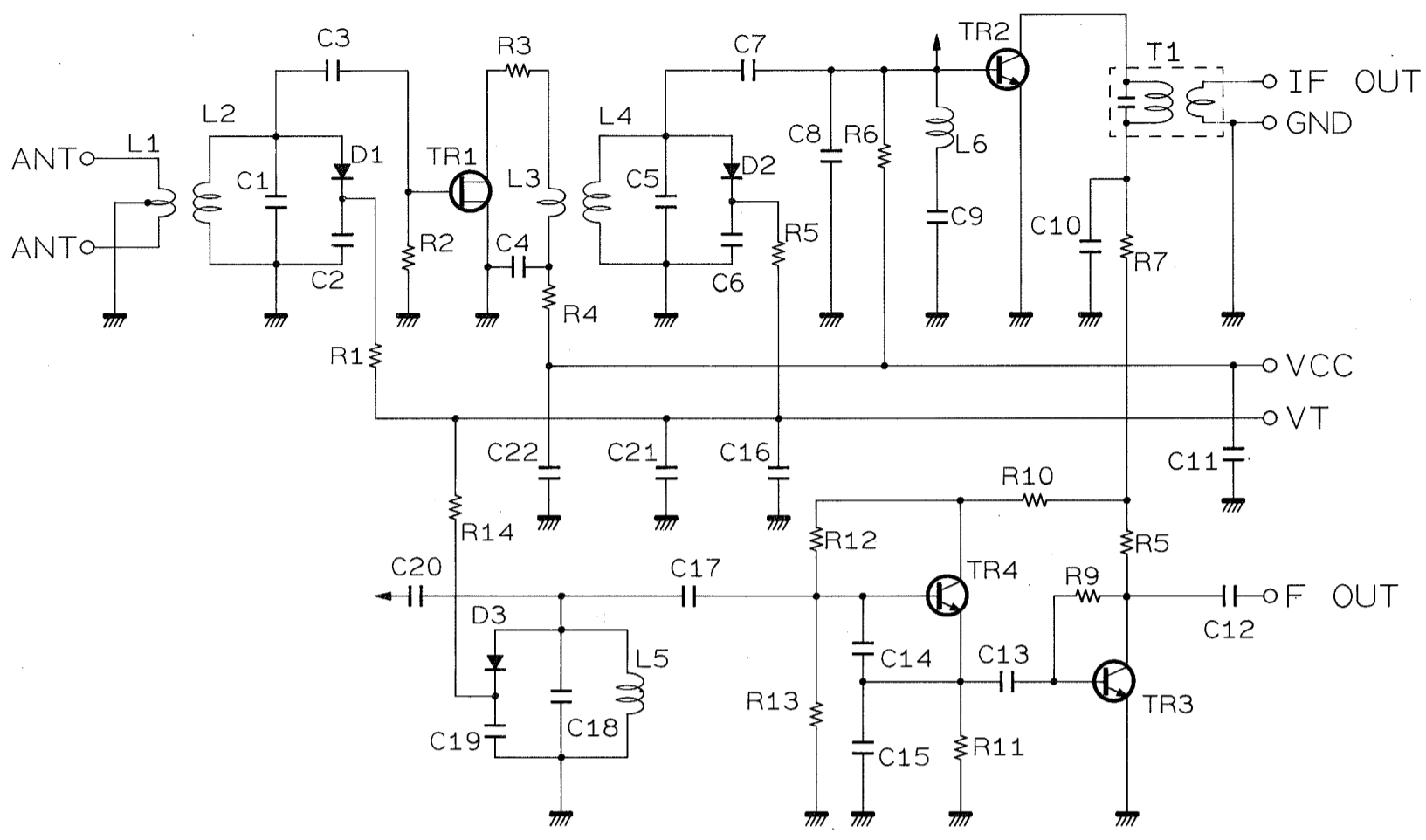
DECK (3)

TAPE CONTROL Circuit Board

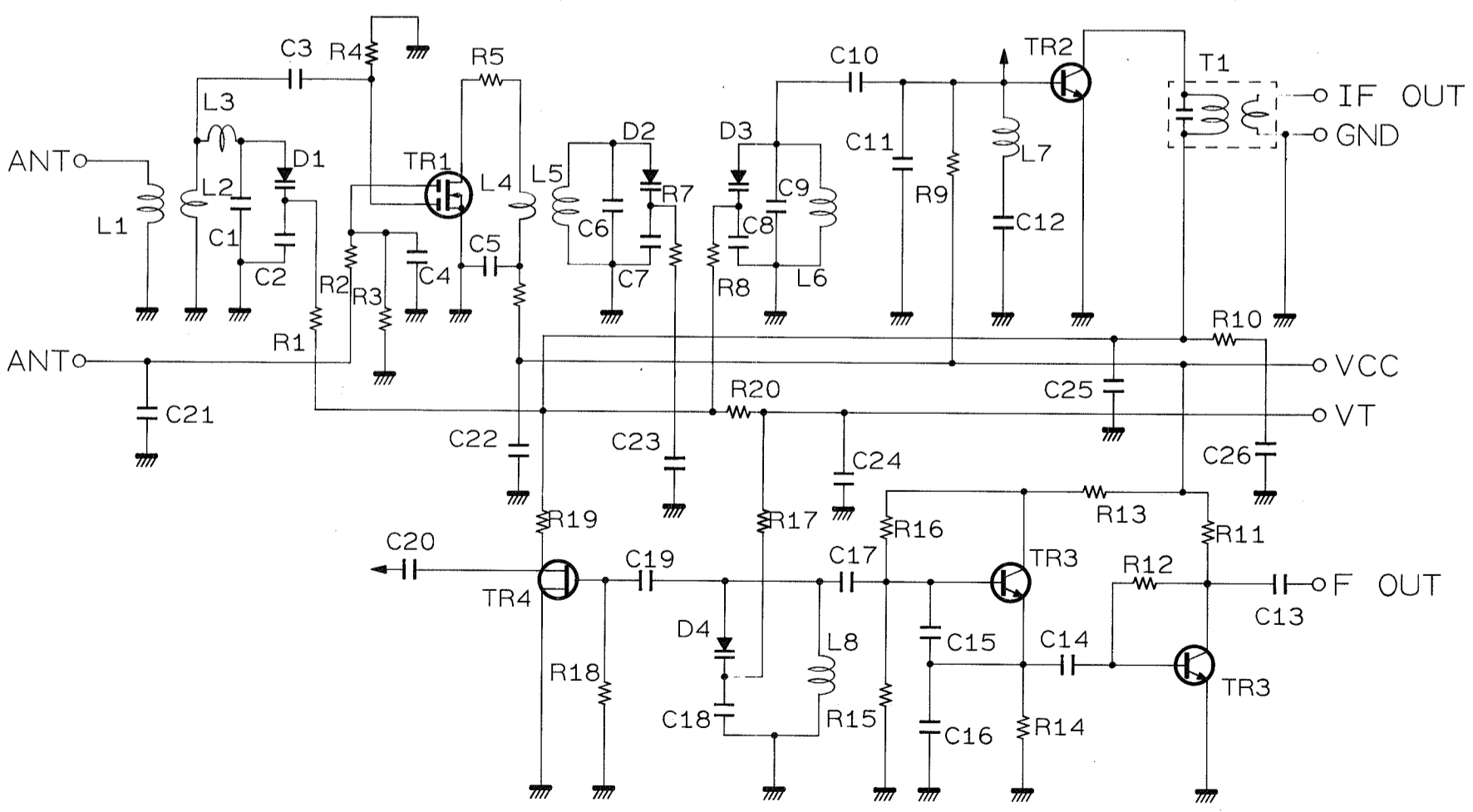


SCHEMATIC DIAGRAM (Front End Section)

• U, C, R, A models

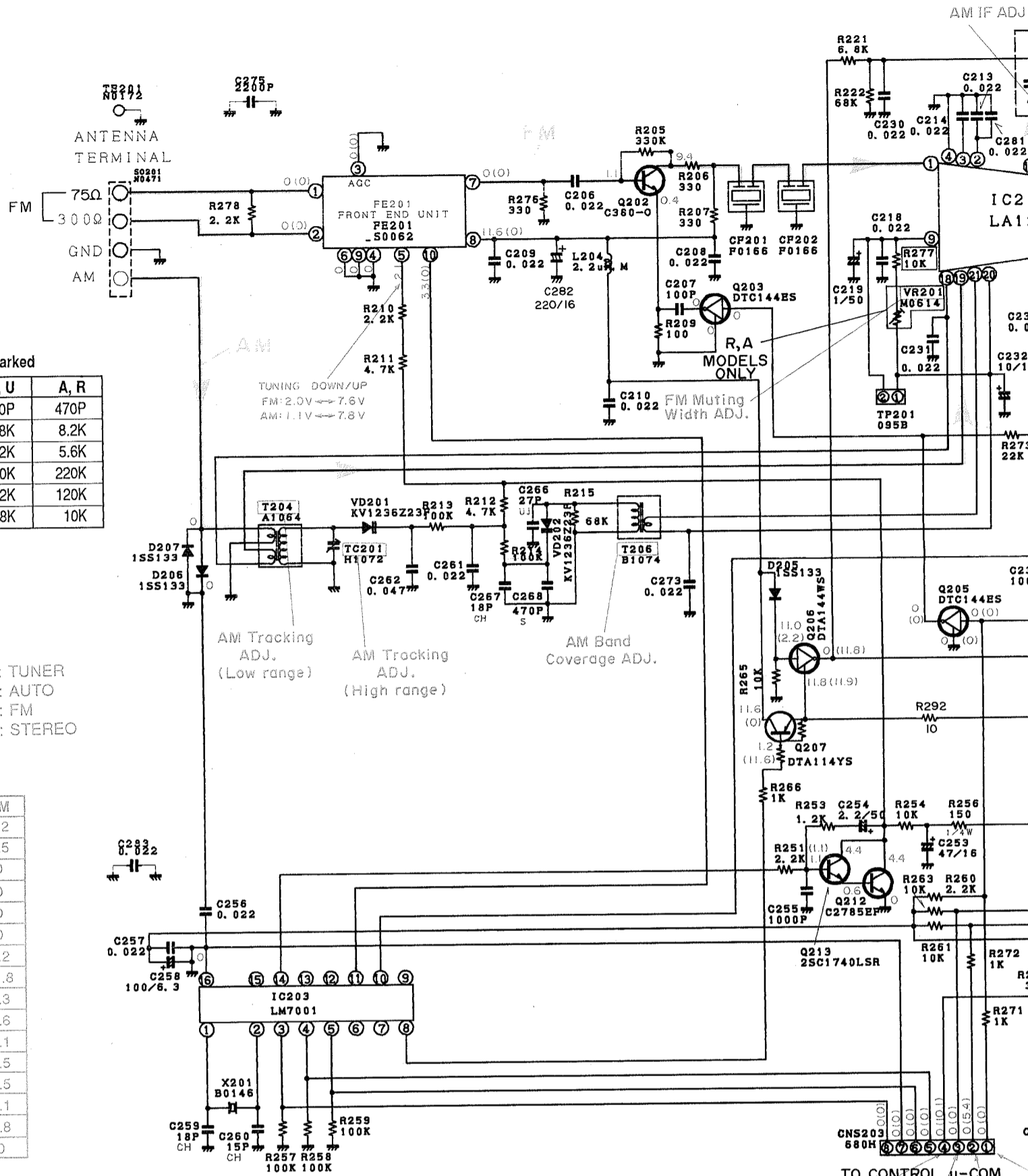


• B, W, H models



1989/06/21 AST-C30 B/H/W  
AST-C30 H

# SCHEMATIC DIAGRAM (Tuner Section ..... U, C, R, A models)



NOTE)    : Marked

	C, U	A, R
C240, 243	1000P	470P
R223	6.8K	8.2K
R227	2.2K	5.6K
R238	100K	220K
R239, 242	82K	120K
R277	18K	10K

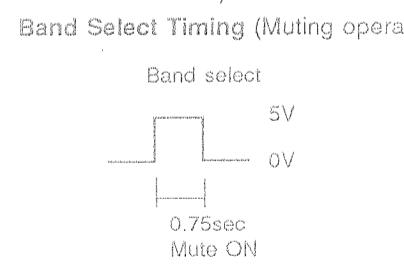
FUNCTION : TUNER  
 AUTO TUNING : AUTO  
 BAND : FM  
 FM MODE : STEREO

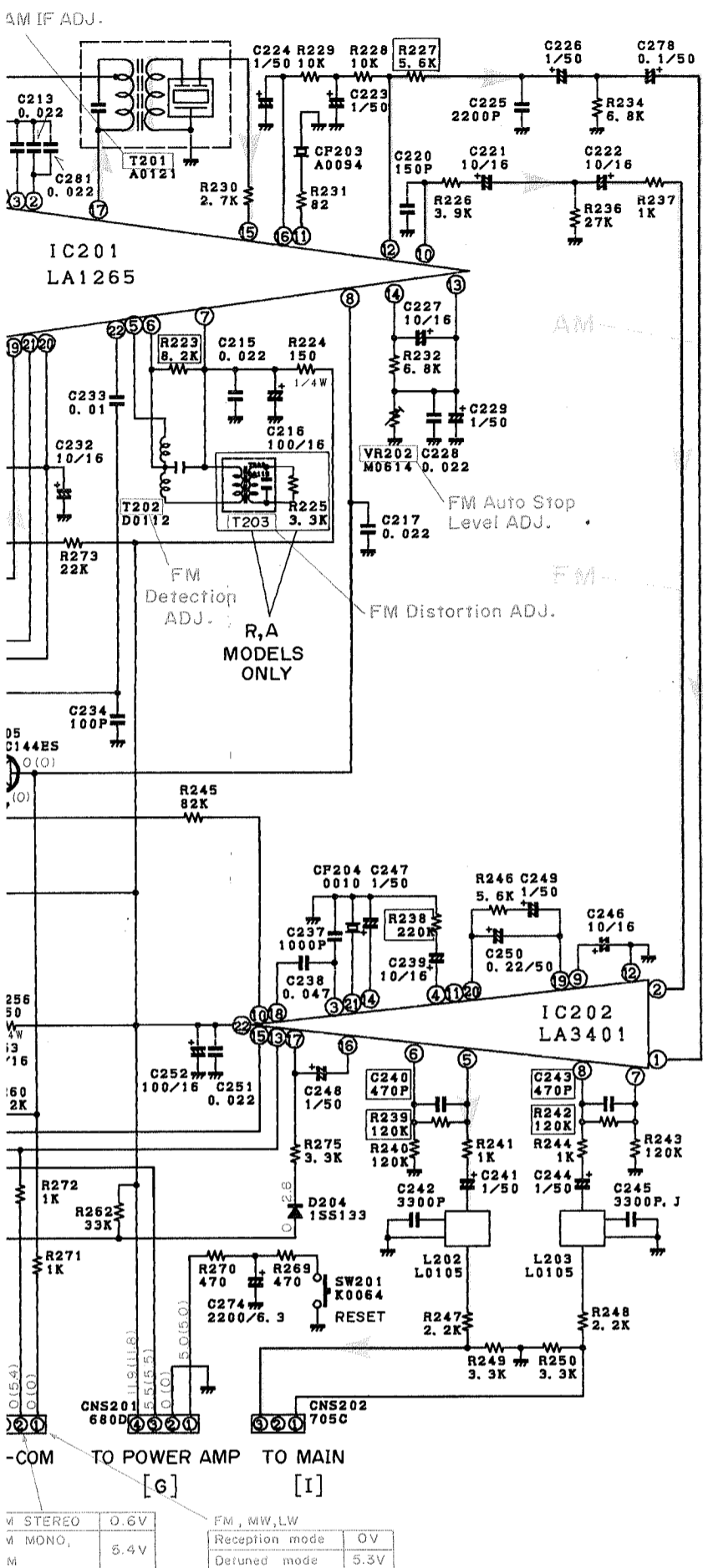
IC203

	FM	AM
1	1.2	1.2
2	1.5	1.5
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0.2
8	0.2	11.8
9	0.7	0.3
10	0	1.6
11	2.7	0.1
12	5.5	5.5
13	5.5	5.5
14	1.1	1.1
15	1.0	0.8
16	0	0

FM STEREO	0V
FM MONO	7.6V
AM	10.1V

All voltages are measured with a 10MΩ/V DC electric voltmeter. The voltages are measured at FM (88.0MHz, 80dBμ) reception mode. Only the voltages ( ) are at AM (1404kHz, 80dBμ) reception mode.





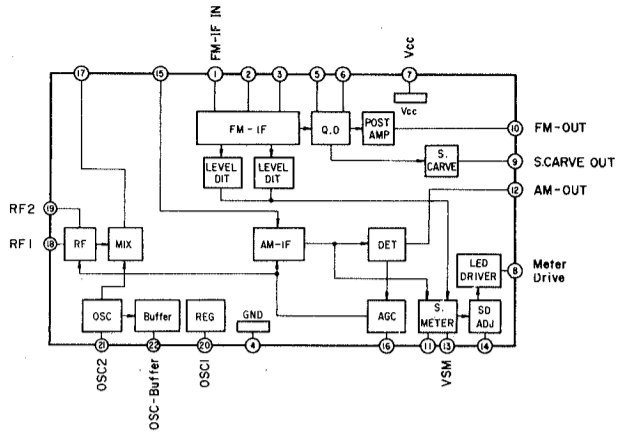
IC201

	FM	AM
1	2.3	1.1
2	2.3	1.1
3	2.3	1.1
4	0	0
5	8.7	8.7
6	8.0	8.7
7	8.7	8.7
8	0	0
9	3.9	3.5
10	3.1	3.0
11	1.3	1.3
12	1.5	1.5
13	1.8	1.9
14	1.8	0.1
15	2.4	1.1
16	1.1	1.9
17	0	8.7
18	0.1	2.0
19	0.1	2.0
20	3.9	3.7
21	3.9	3.7
22	2.8	1.6

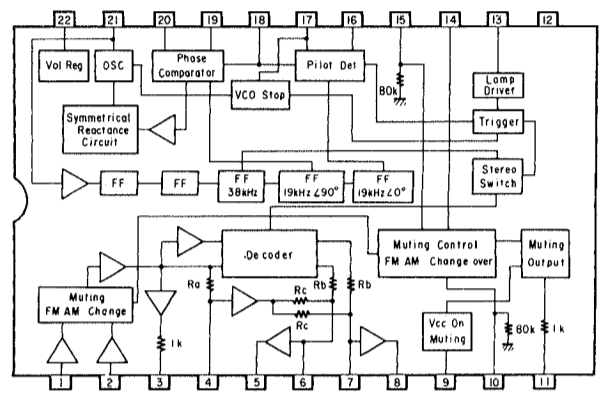
IC202

	FM	AM
1	3.2	3.2
2	3.2	3.2
3	3.2	3.2
4	3.2	3.2
5	6.2	6.2
6	3.2	3.2
7	3.2	3.2
8	6.0	6.0
9	3.2	3.2
10	0	6.1
11	0	0
12	0	0
13	0.6	5.5
14	4.9	0.1
15	0	0
16	2.8	2.8
17	2.8	9.5
18	2.8	5.5
19	2.8	5.5
20	2.8	7.7
21	3.4	1.8
22	11.8	11.8

LA1265 (IC201)  
FM/AM IF

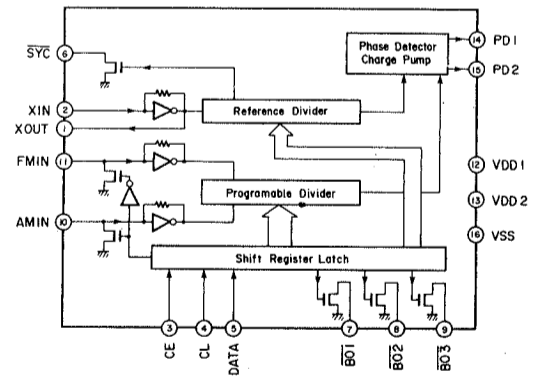


LA3401 (IC202)  
MPX

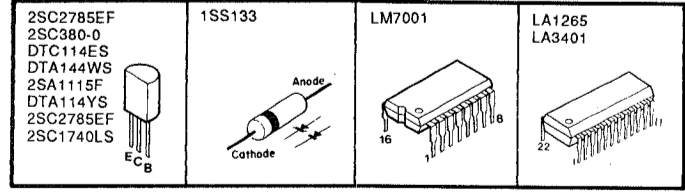


Pin No.	Function
1	Input (AM)
2	Input (FM)
3	Composite Amp Output
4	Separation Adj
5	Post Amp Output
6	Post Amp Input
7	Post Amp Input
8	Post Amp Output
9	Muting ON (Vcc)
10	AM/FM Select
11	Muting Output
12	GND
13	Stereo Indicator
14	Mute Select
15	Muting
16	Pilot Detector Filter
17	Pilot Detector Filter, VCO Stop
18	PLL Input
19	Loop Filter
20	Loop Filter
21	OSC
22	Vcc

LM7001 (IC203)  
PLL



PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.



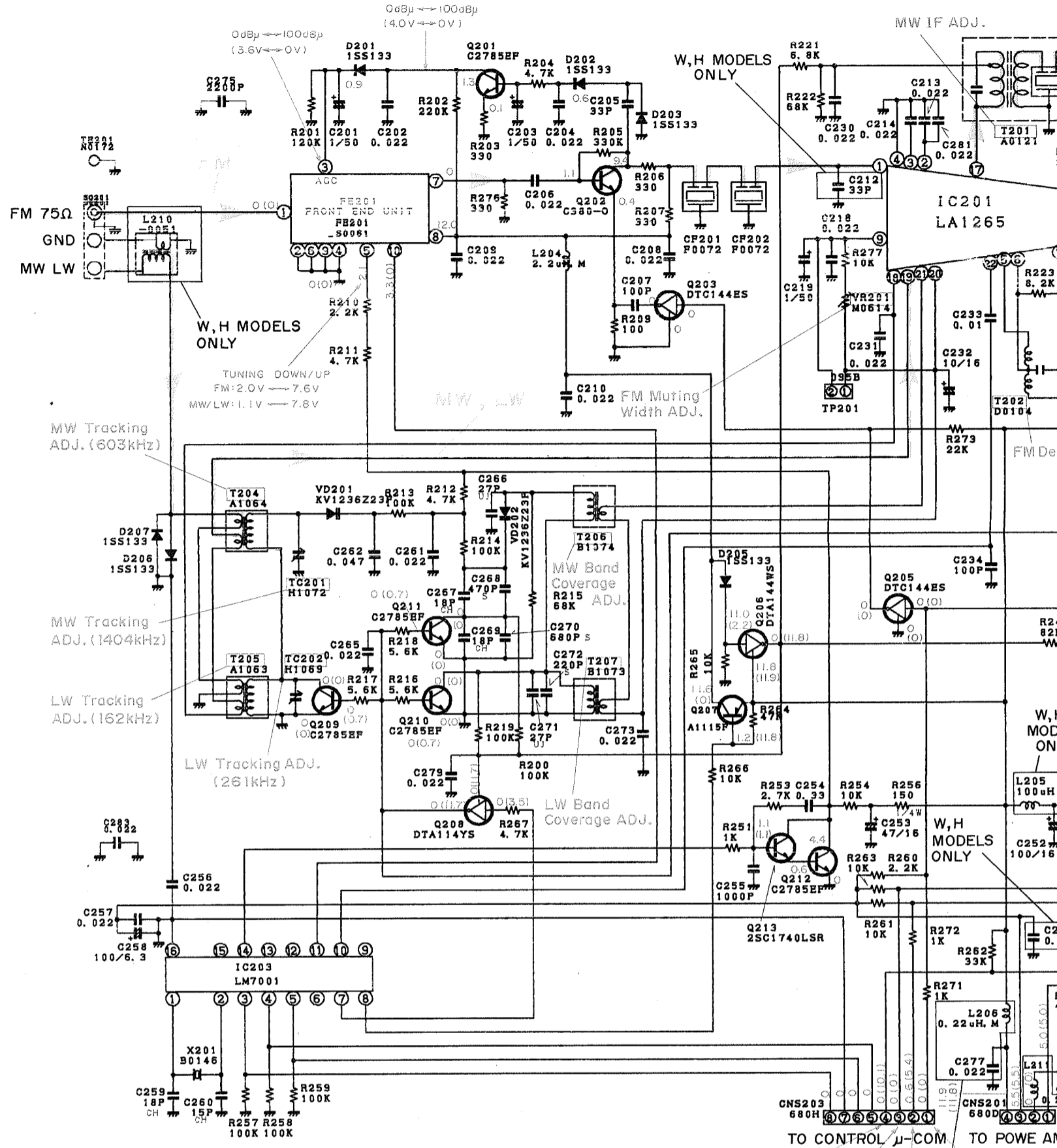
\* All voltage are measured with a 10MΩ/DC electric volt meter.  
 \* Components having special characteristics are marked  $\Delta$  and must be replaced with parts having specifications equal to those originally installed.  
 \* Schematic diagram is subject to change without notice.

■ SCHEMATIC DIAGRAM (Tuner Section ..... B, H, W models)

FUNCTION : TUNER  
 AUTO TUNING : AUTO  
 BAND : FM  
 FM MODE : STEREO

IC203

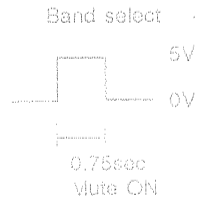
	FM	MW
1	1.2	1.2
2	1.5	1.5
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0.2
8	0.2	11.8
9	0.7	0.3
10	0	1.6
11	2.7	0.1
12	5.5	5.5
13	5.5	5.5
14	1.1	1.1
15	1.0	0.8
16	0	0



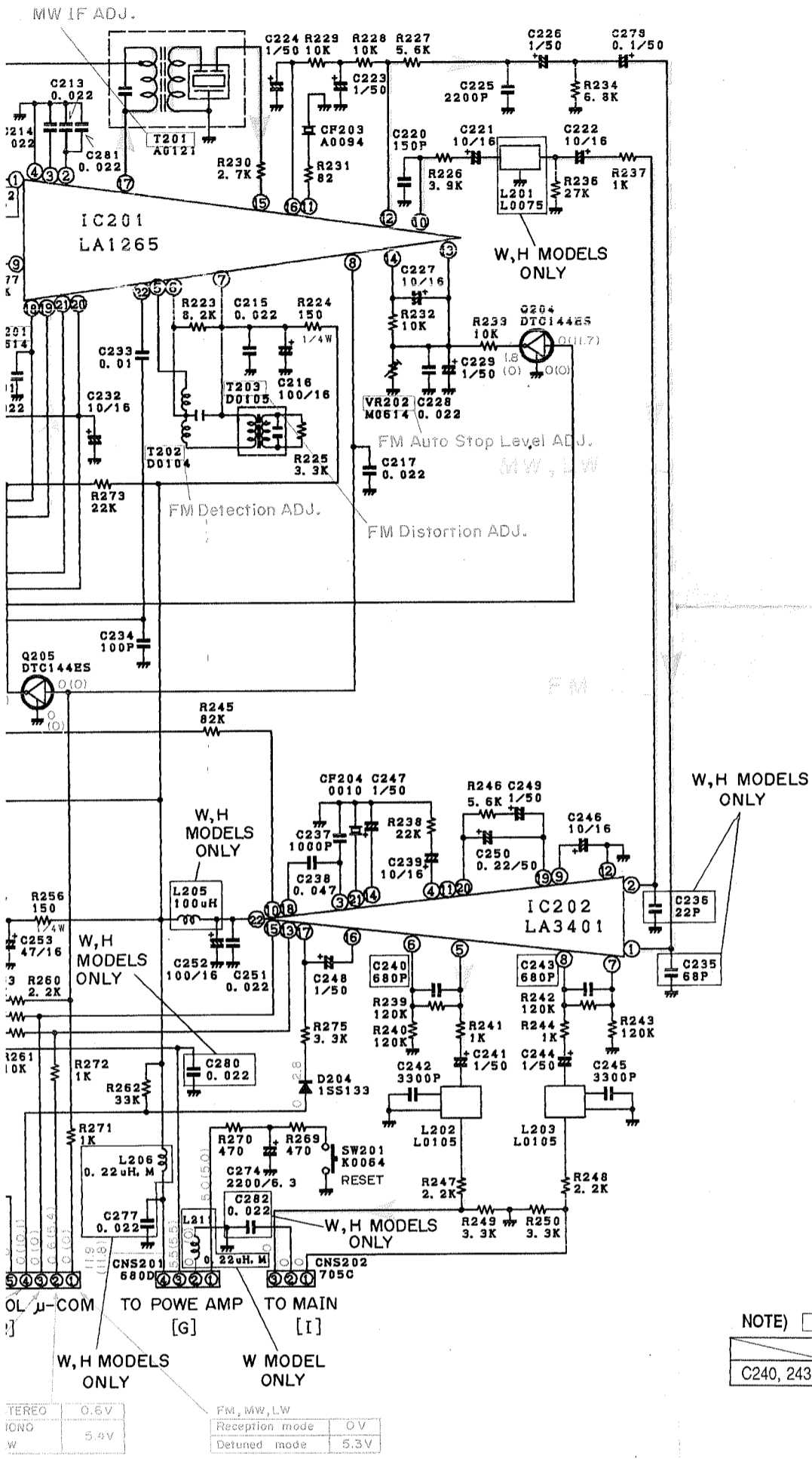
FM STEREO	0V
FM MONO	7.6V
MW, LW	10.7V

FM STEREO	0.6V
FM MONO	5.4V
MW, LW	

Band Select Timing (Muting operation)



All voltages are measured with a 10MΩ/V DC electric voltmeter. The voltages are measured at FM (88.0MHz, 80dBμ) reception mode. Only the voltages ( ) are at MW (1404kHz, 80dBμ) reception mode.



IC201

	FM	MW, LW
1	2.3	1.1
2	2.3	1.1
3	2.3	1.1
4	0	0
5	8.7	8.7
6	8.8	8.7
7	8.7	8.7
8	0.1	0.1
9	3.9	3.5
10	3.1	3.0
11	1.3	1.3
12	1.5	1.9
13	1.8	1.9
14	1.8	0.1
15	2.4	1.1
16	1.5	1.9
17	0	8.7
18	0.1	2.0
19	0.1	2.0
20	3.9	3.7
21	3.9	3.7
22	2.8	1.6

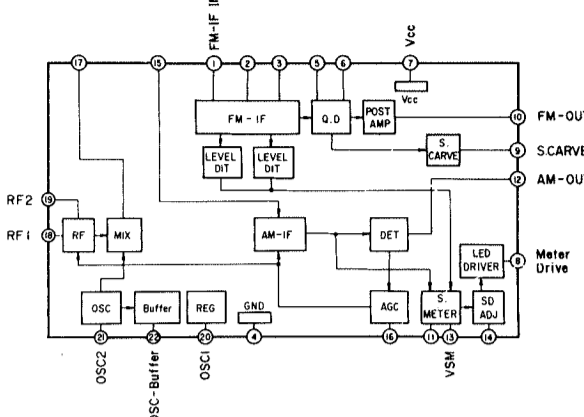
IC202

	FM	MW, LW
1	3.2	3.2
2	3.2	3.2
3	3.2	3.2
4	3.2	3.2
5	6.2	6.2
6	3.2	3.2
7	3.2	3.2
8	6.0	6.0
9	3.2	3.2
10	0	6.1
11	0	0
12	0	0
13	0.6	5.5
14	4.9	0.1
15	0	0
16	2.8	2.8
17	2.8	9.5
18	2.8	5.5
19	2.0	5.5
20	2.8	7.7
21	3.4	1.8
22	11.8	11.8

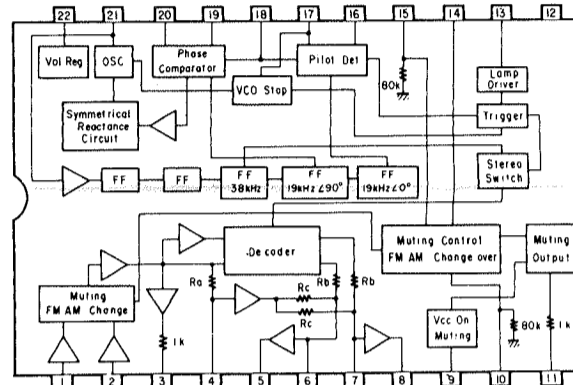
NOTE)   : Marked

	H	W	B
C240, 243	560P	680P	470P

LA1265 (IC201)  
FM/AM IF

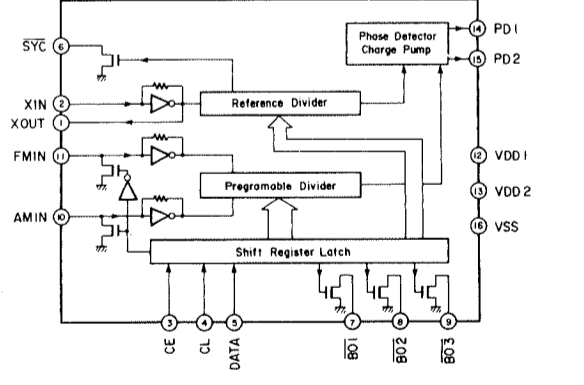


LA3401 (IC202)  
MPX

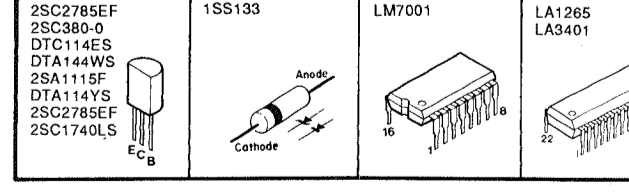


Pin No.	Function
1	Input (AM)
2	Input (FM)
3	Composite Amp Output
4	Separation Adj
5	Post Amp Output
6	Post Amp Input
7	Post Amp Input
8	Post Amp Output
9	Muting ON (Vcc)
10	AM/FM Select
11	Muting Output
12	GND
13	Stereo Indicator
14	Mute Select
15	Muting
16	Pilot Detector Filter
17	Pilot Detector Filter, VCO Stop
18	PLL Input
19	Loop Filter
20	Loop Filter
21	OSC
22	Vcc

LM7001 (IC203)  
PLL



PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.



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

# SCHEMATIC DIAGRAM (Tape Control Section)

1

2

3

4

5

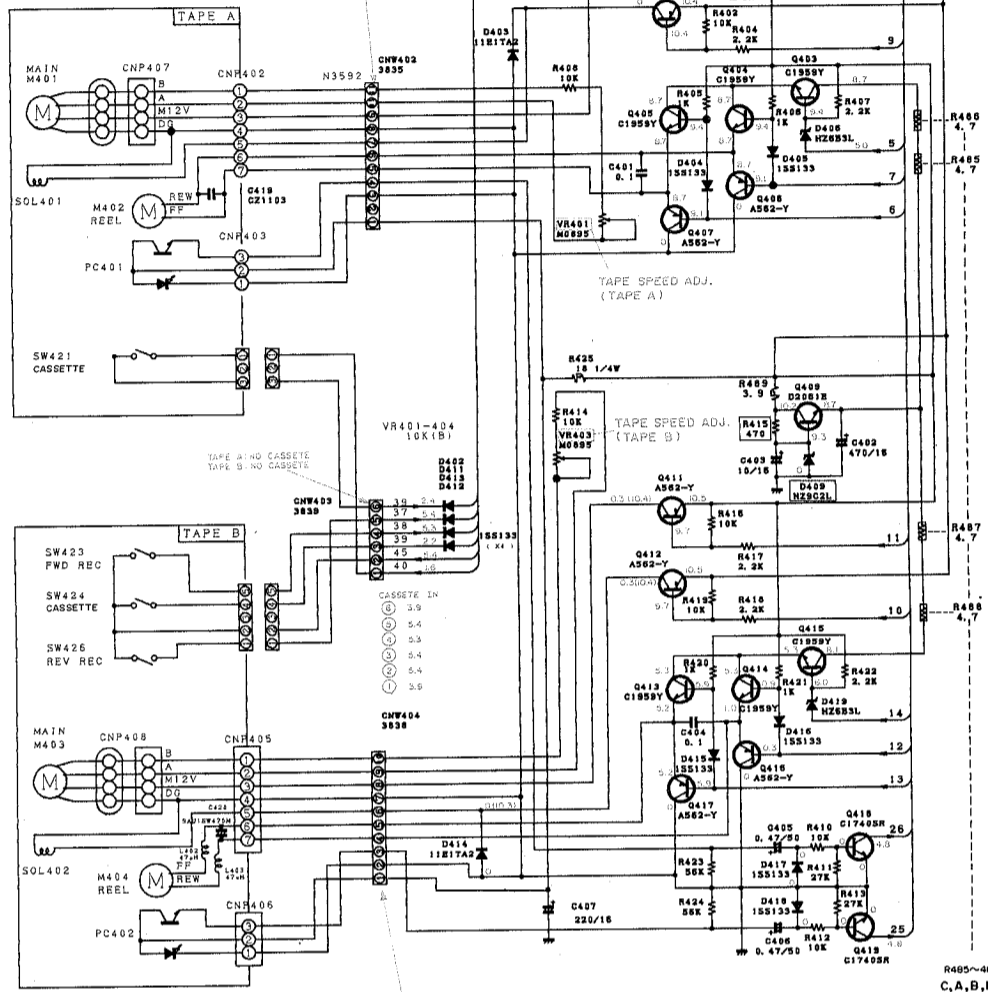
6

7

8

TAPE: CrO<sub>2</sub>

CNW402	PLAY	NO CASSETTE
11	8.2	0.3
10	10.2	0.3
9	10.5	0.3
8	0	0
7	13.5	0
6	5.4	8.7
5	0	8.7
4	0	9.7
3	0	0
2	0	0
1	9.8	9.8



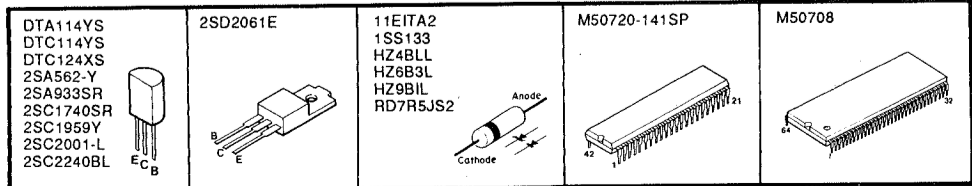
CNW404	PLAY	NO CASSETTE
10	8.5	0.3
9	10.1	0.3
8	10.4	0.3
7	0	0
6	10.4	0
5	6.2	8.7
4	1.0	8.7
3	0	0
2	0	0
1	9.8	9.8

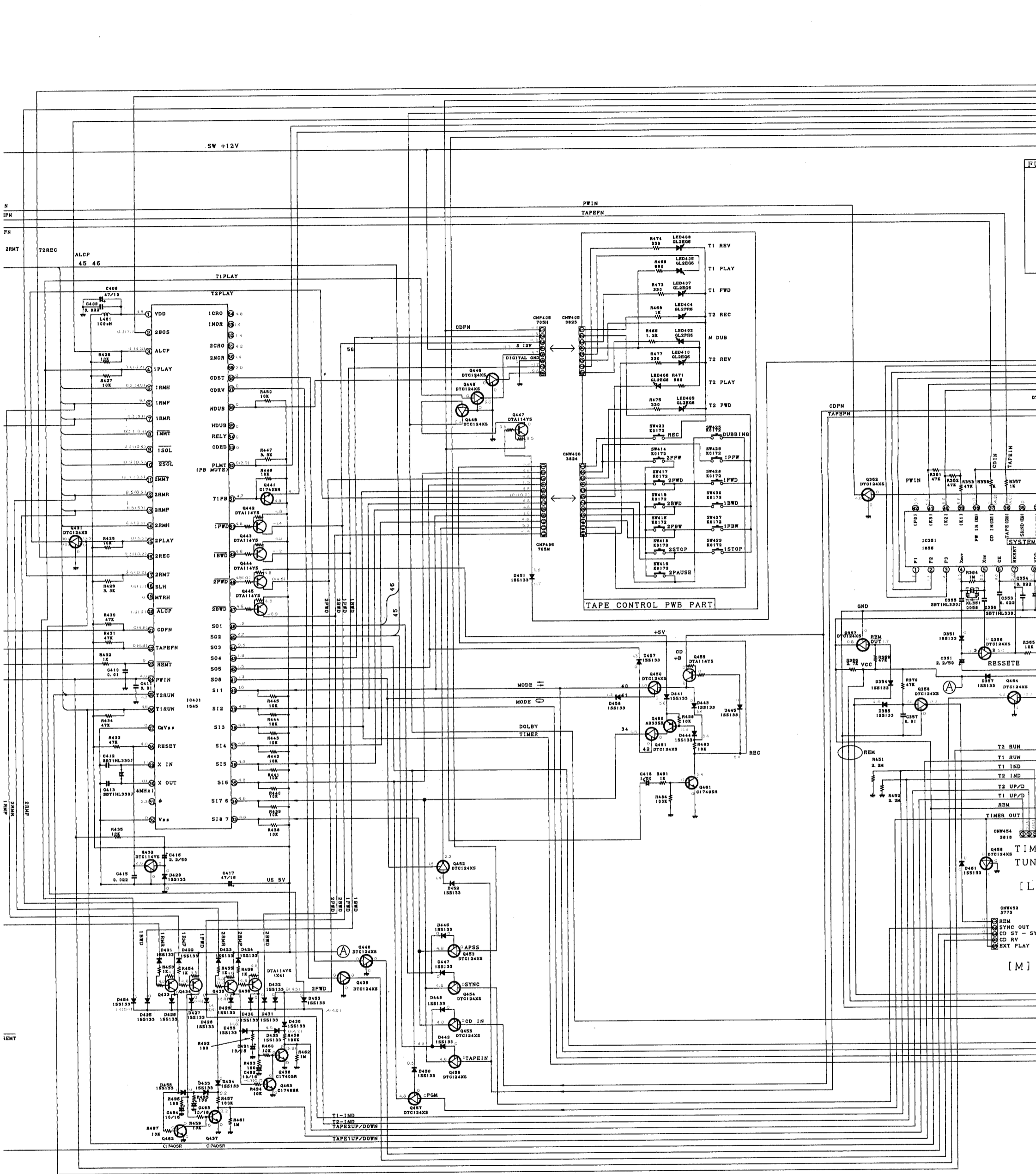
Note:  MARKED

	U, R	H, W, B, C, A
D409	HZ961L	HZ9C2L
R415	680	470

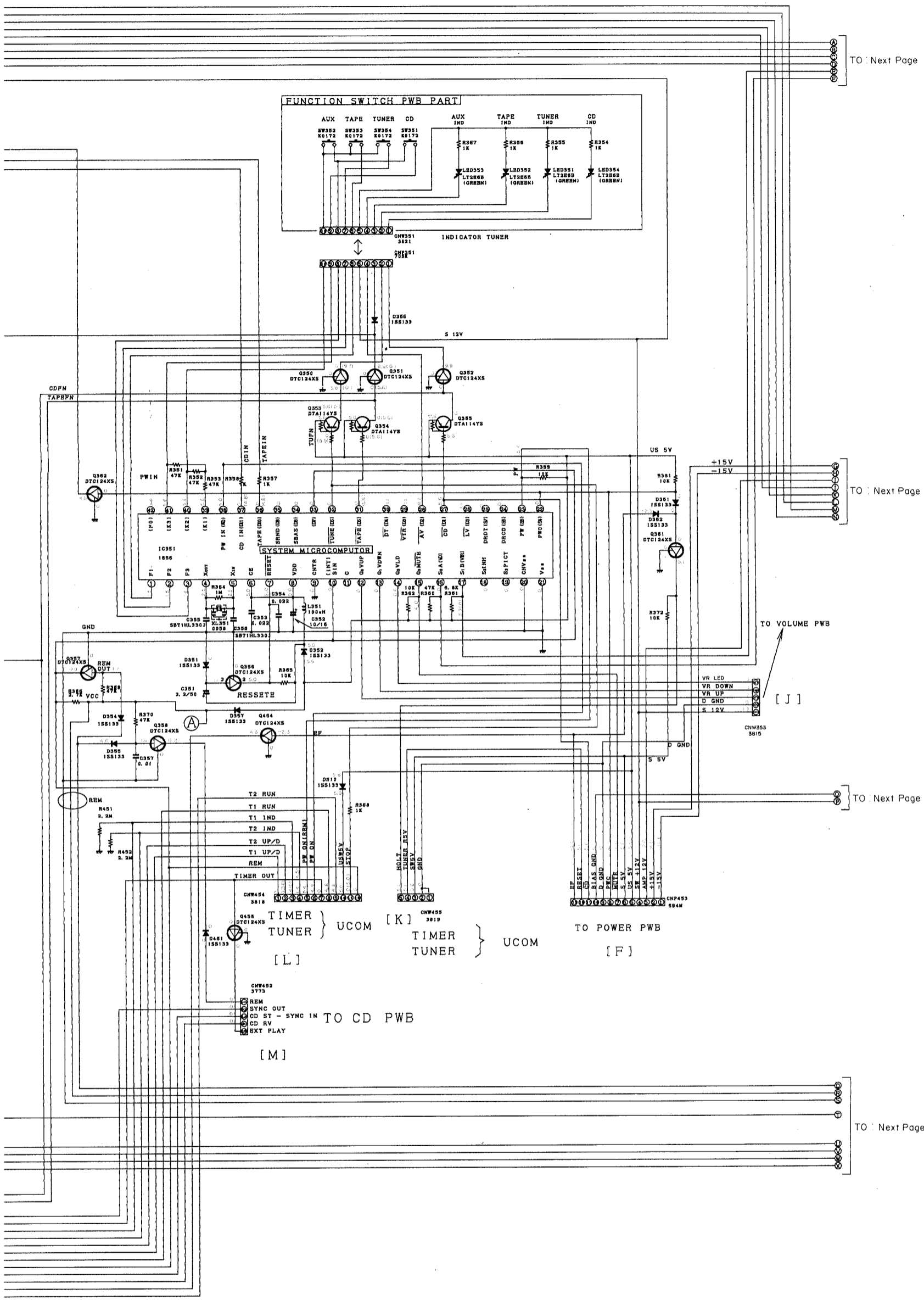
The voltages are measured by CrO<sub>2</sub> tape at PLAY mode (TAPE A). Only the voltages at ( ) are measured by LH tape at REC mode (TAPE B).

### PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.





6



TO : Next Page

TO : Next Page

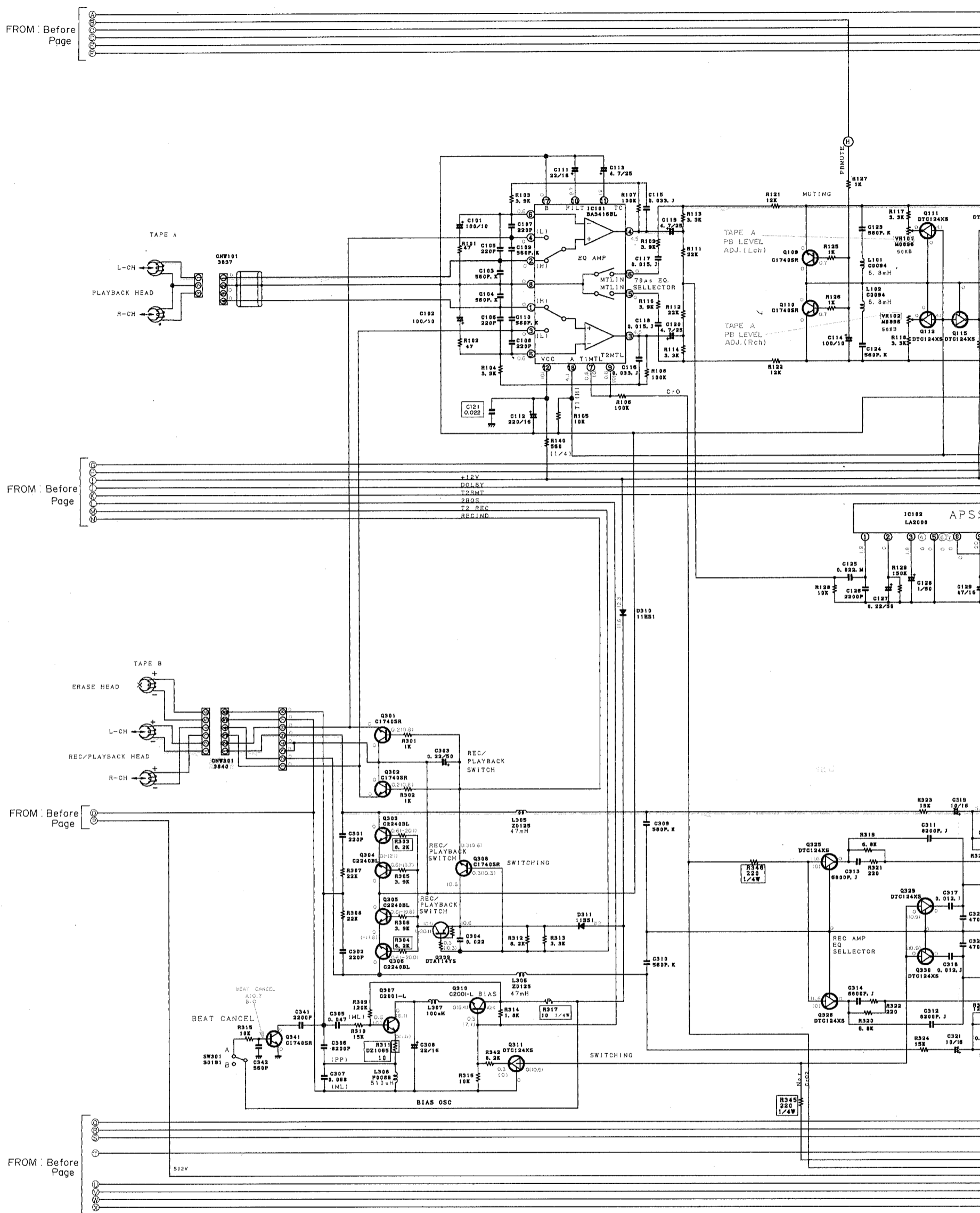
TO : Next Page

TO : Next Page

6

- \* All voltage
- \* Components
- be replaced
- installed.
- \* Schematic

SCHEMATIC DIAGRAM (Tape & Amp Section)

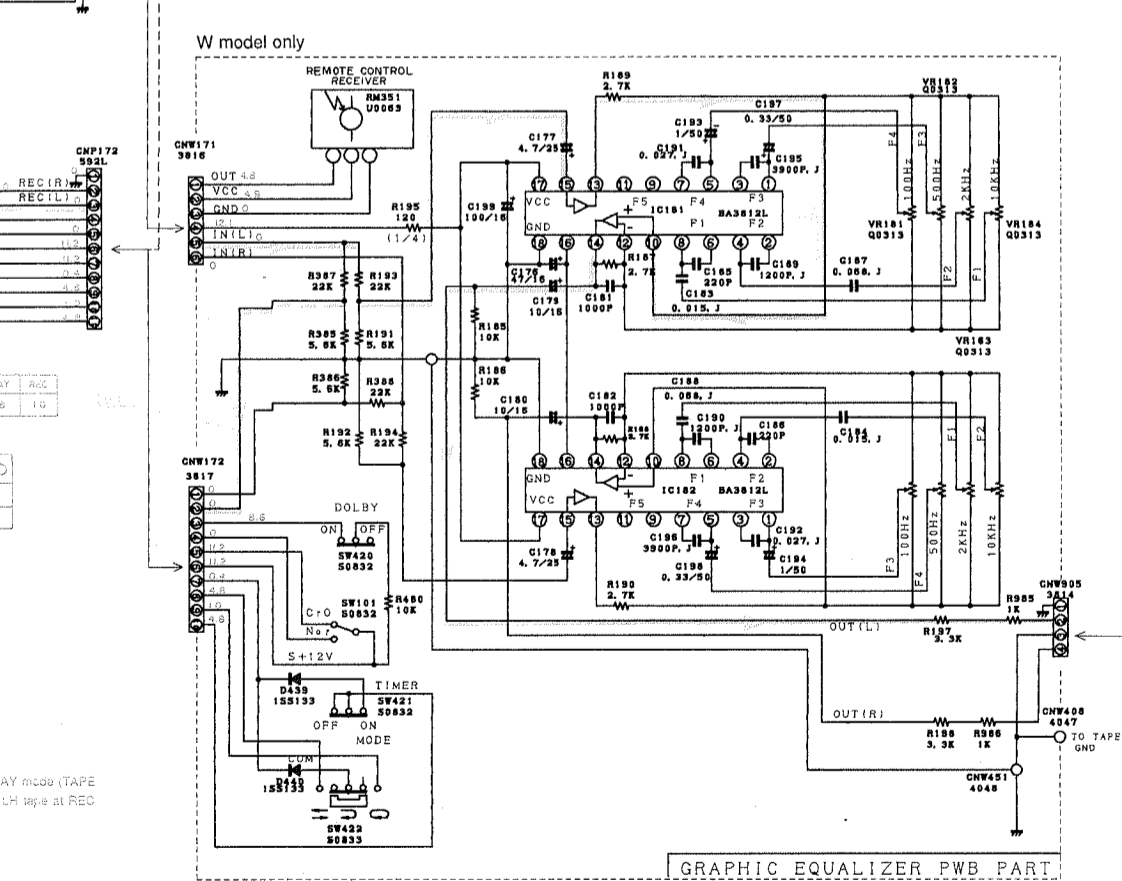
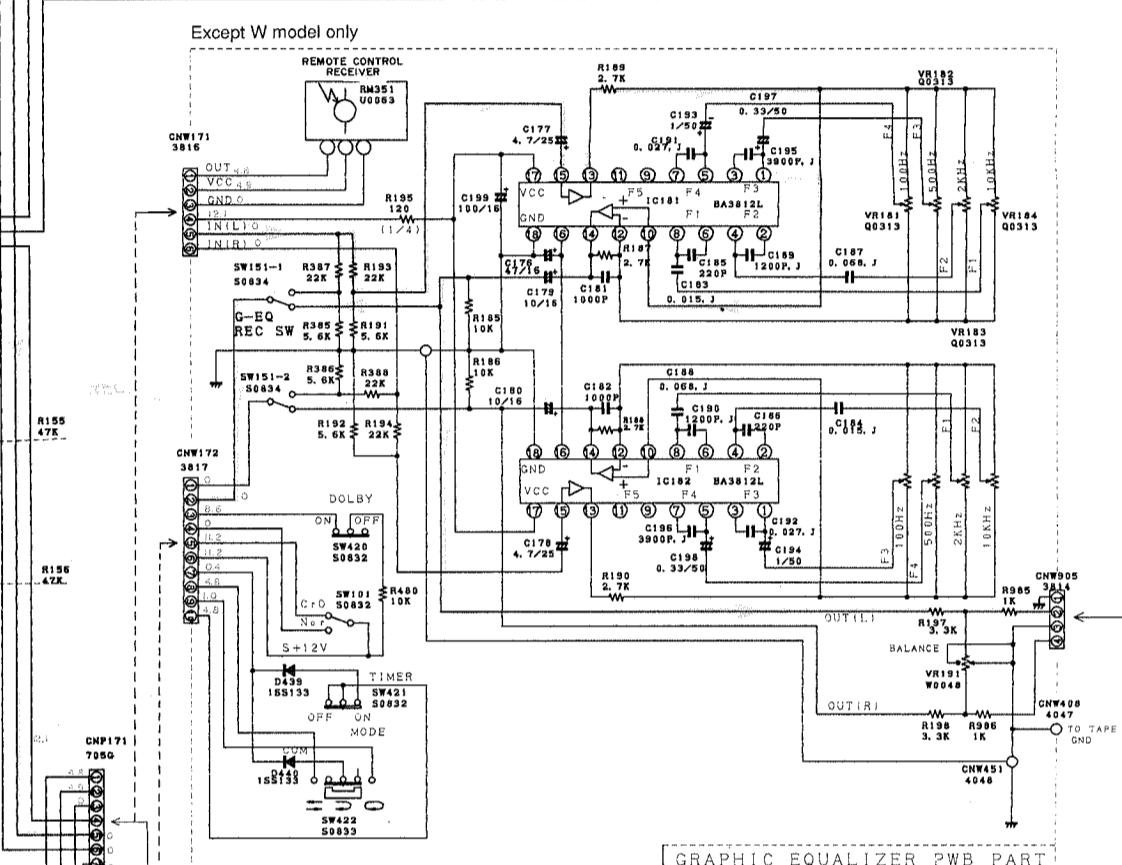
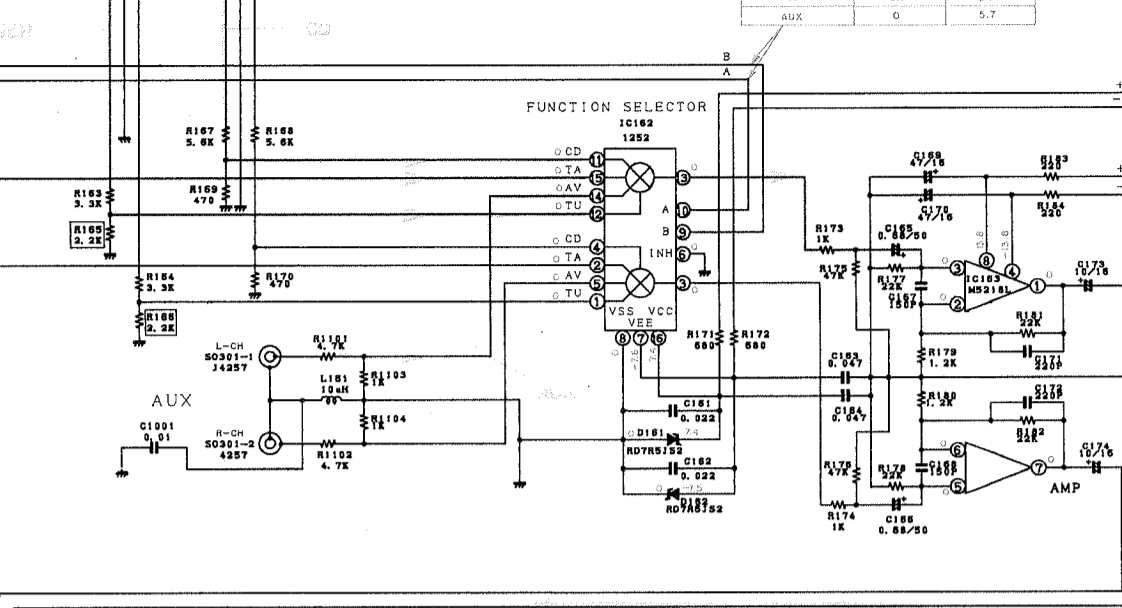
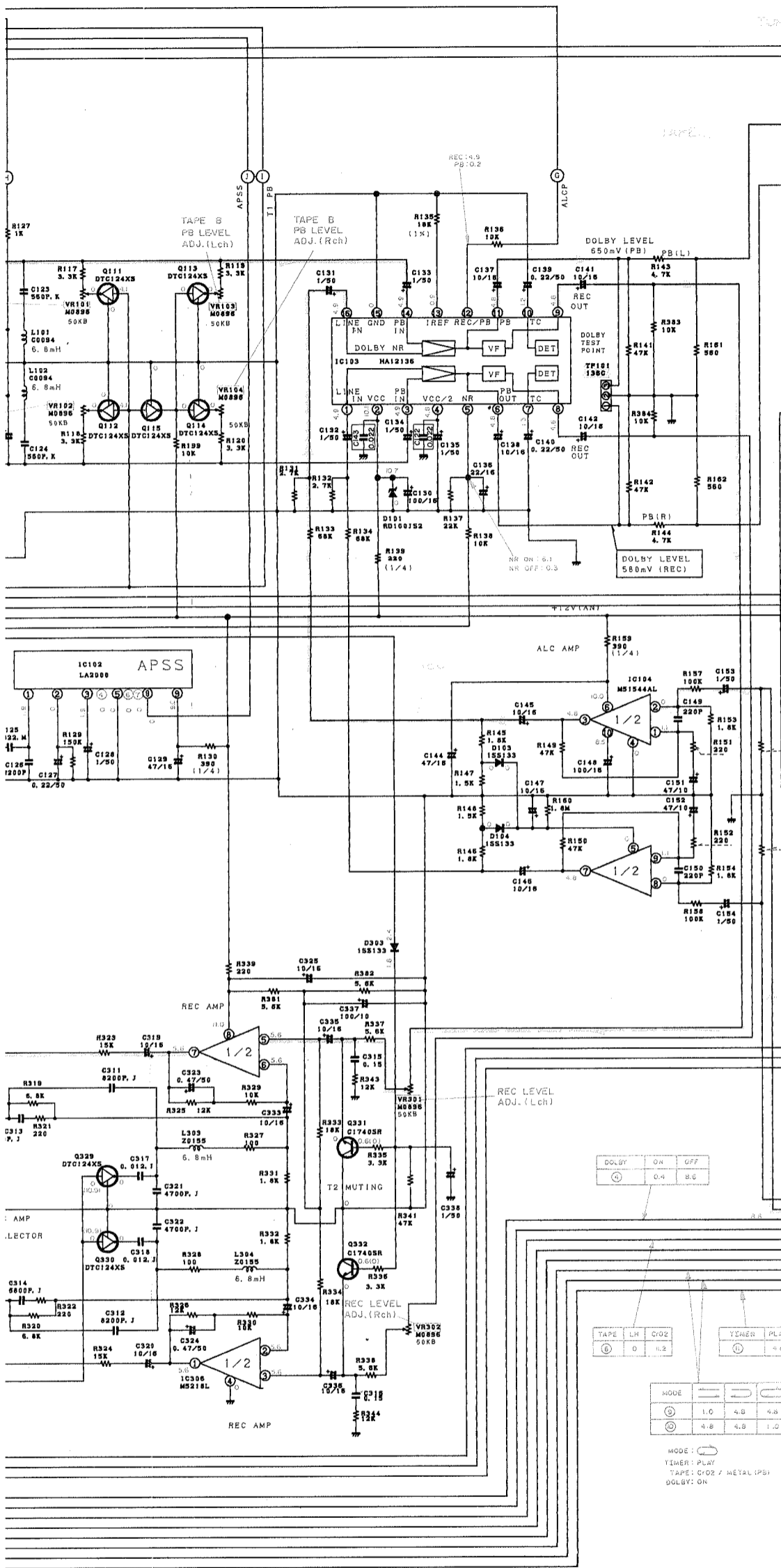


PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.

DTA114YS DTC114YS DTC124XS 2SA562-Y 2SA933SR 2SC1740SR 2SC1959Y 2SC2001-L 2SC2240BL	11E1TA2 1SS133 HZ4BLL HZ6B3L HZ9BIL RD7R5JS2	M5218L	LA2000	LB1641 M51544A1	BA3416BL BA3812L	HA12136 TC74HC4052AF

[I] TO TUNER TO CD [H]

FUNCTION	IC162	IC163
TUNER	0	0
TAPE	5.7	0
CD	5.7	5.7
AUX	0	5.7



The voltages are measured by CrO2 tape at PLAY mode (TAPE A). Only the voltages at ( ) are measured by LH tape at REC mode (TAPE B).

TAPE	LH	CrO2
( )	0	4.2

TUNER	PLAY	REC
( )	4.6	1.0

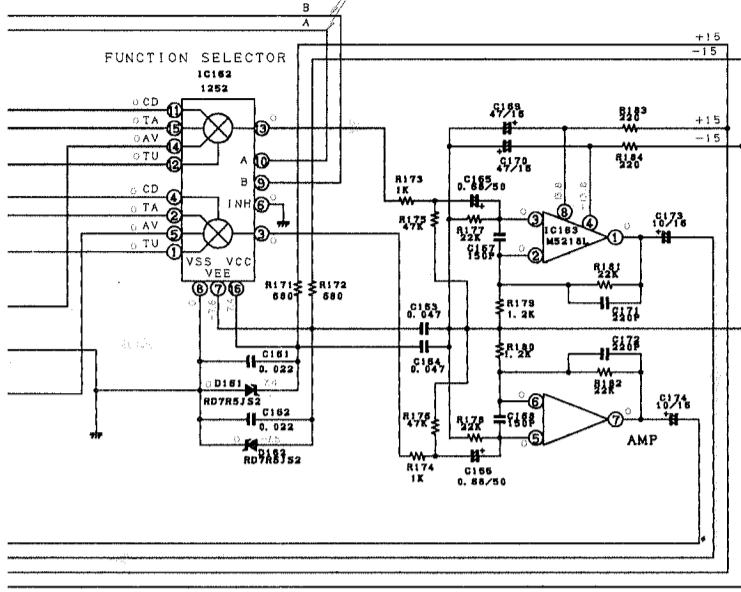
MODE	1.0	4.0	4.8
( )	4.8	4.8	1.0

MODE: ( )  
 TIMER: PLAY  
 TAPE: CrO2 / METAL (PS)  
 DOLBY: ON

FUNCTION	IC162	
	91A J	101D I
TUNER	0	0
TAPT	5.7	0
CD	5.7	5.7
AUX	0	5.7

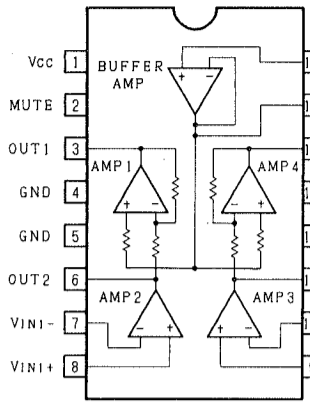
Note 1: MARKED

	U,R	C,A	H,B	W
R165,166	1K	1K	2.2K	2.2K
R303,304	8.2K	8.2K	8.2K	3.9K
R311	10	10(DZ1065)	10(DZ1065)	10(DZ1063)
R317	11ES1(D312)	10	10	10
R346,345	SHORT	220	220	220
R995	SHORT	4.7	4.7	4.7
R996	22	10	10	10
C121,122 143	OPEN	OPEN	OPEN	0.022

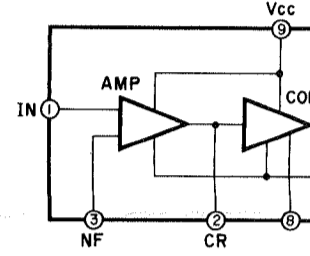


[C]  
TO POWER AMP PWB  
CNW910  
4048

**BA3416BL (IC101)**  
Dual Playback Pre-amplifier



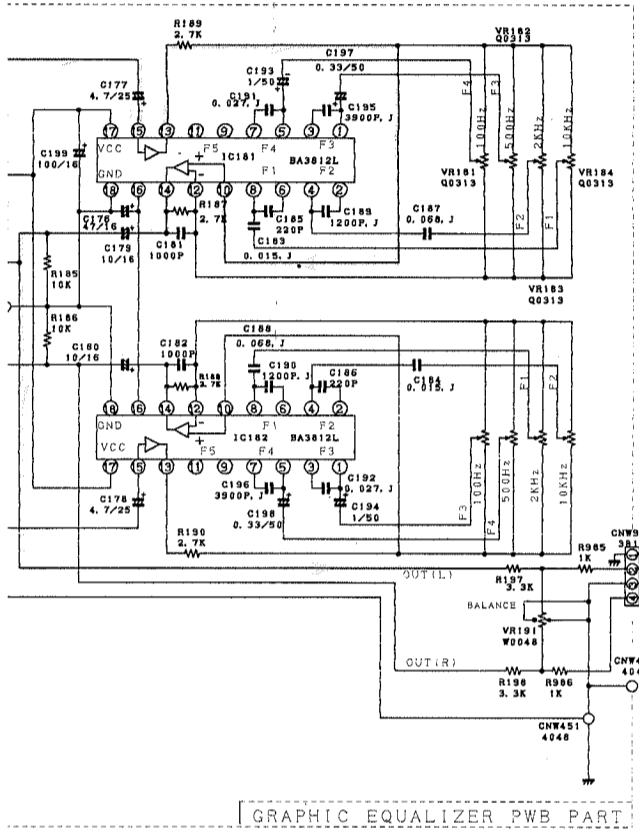
**HA12136 (IC103)**  
Dolby



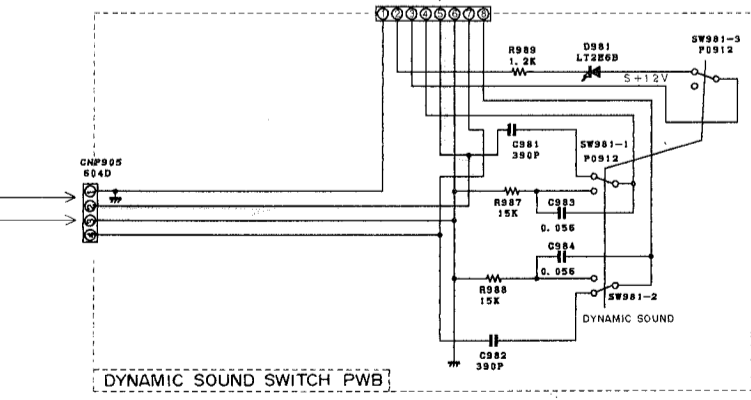
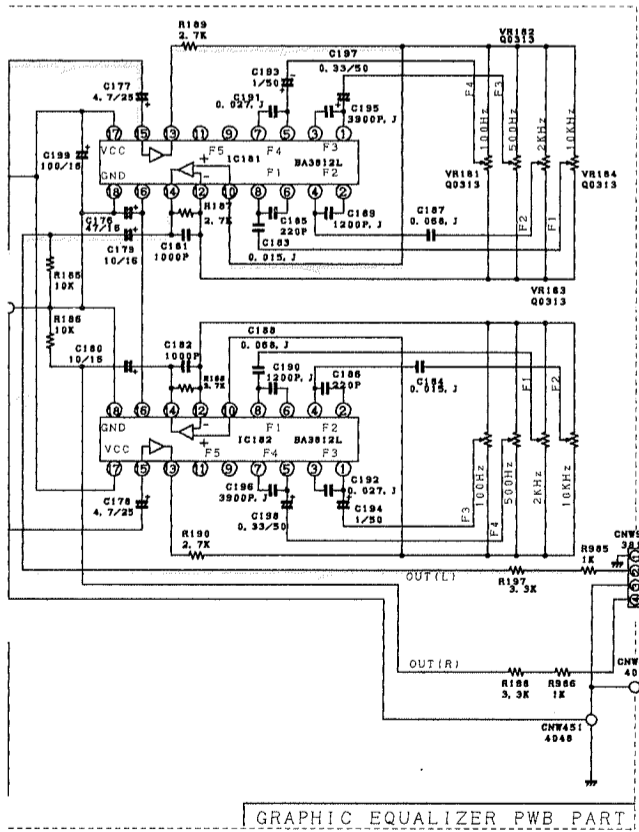
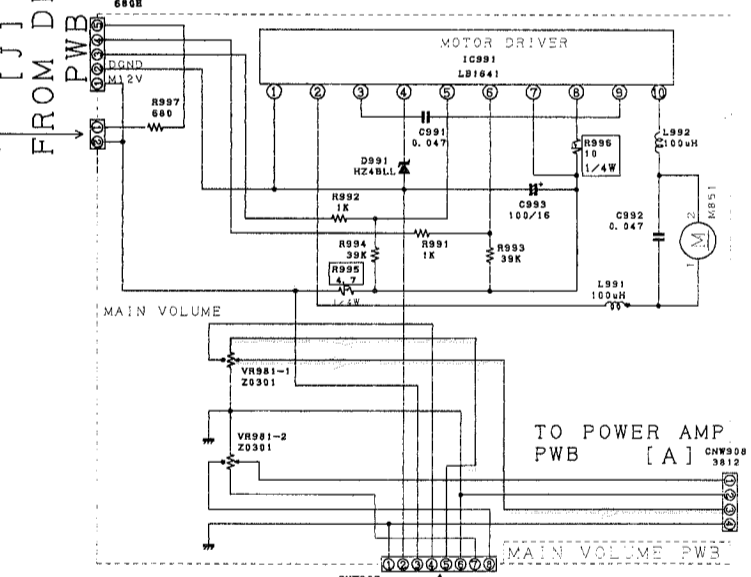
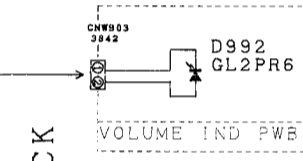
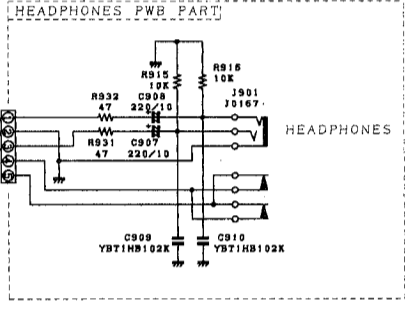
**TC74HC4052AF (IC162)**  
Dual 4-Channel Analog Multiplexer/Demultiplexer

- 0Y 1
- 2Y 2
- Y-COM 3
- 3Y 4
- 1Y 5
- INH 6
- VEE 7
- GND 8

CONTROL INPUTS				"ON"	
INHIBIT	C*	B	A	HC4051A	HC4051B
L	L	L	L	0	0X
L	L	L	H	1	1X
L	L	H	L	2	2X
L	L	H	H	3	3X
L	H	L	L	4	-
L	H	L	H	5	-
L	H	H	L	6	-
L	H	H	H	7	-
H	X	X	X	NONE	NC

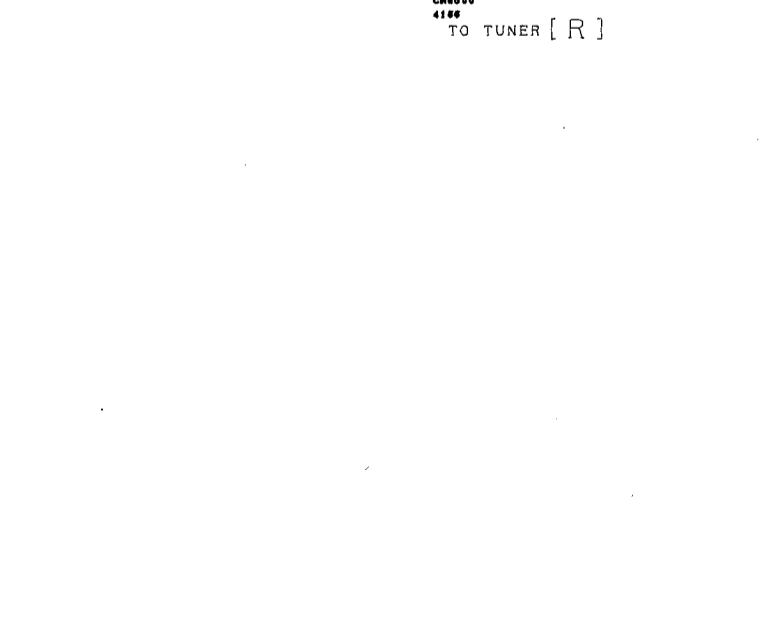
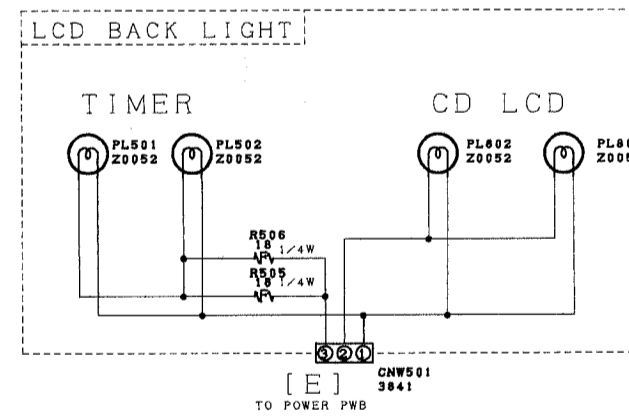
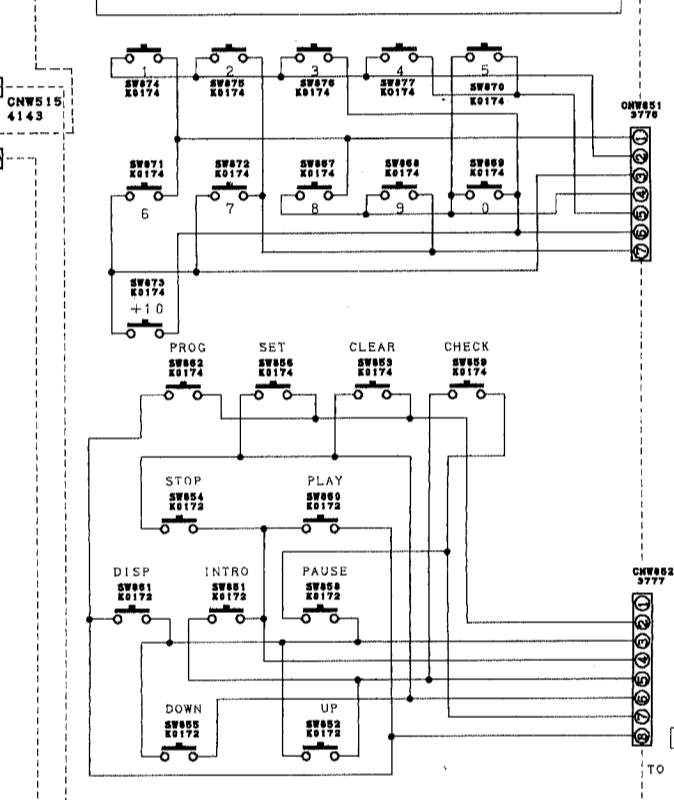
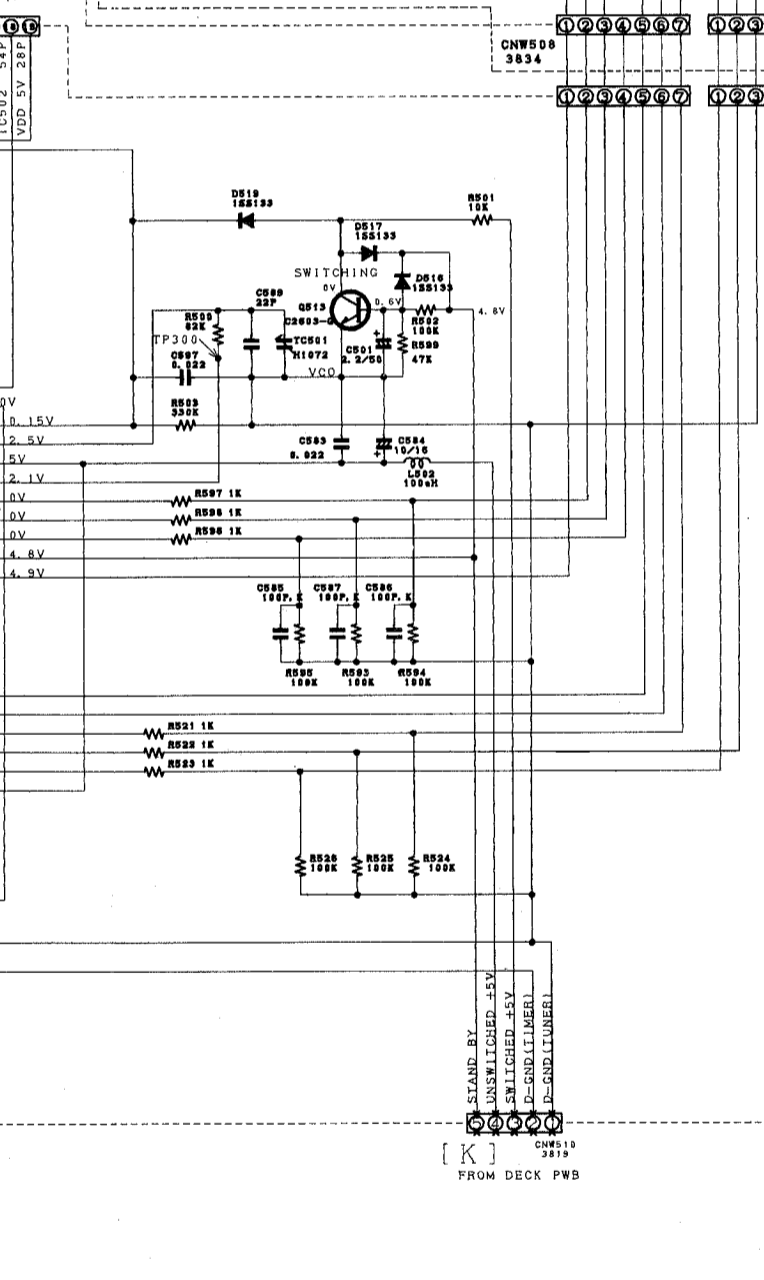
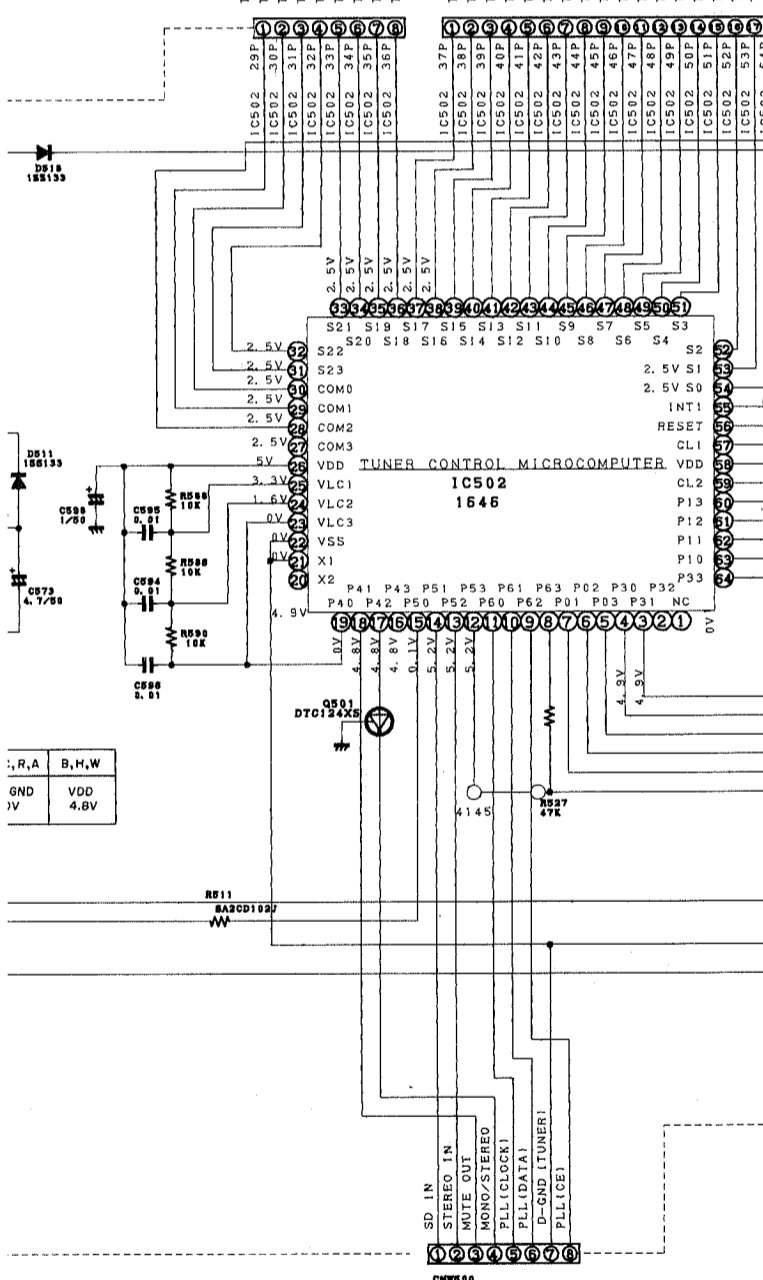
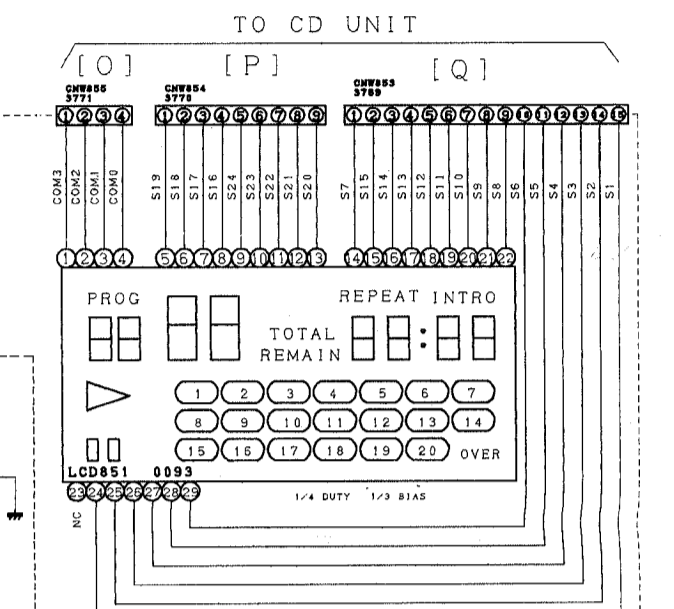
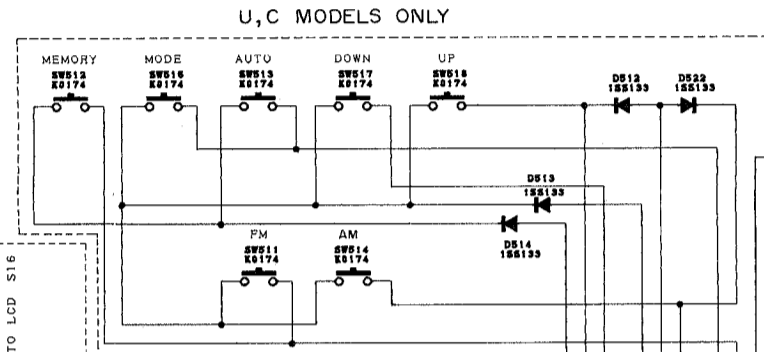
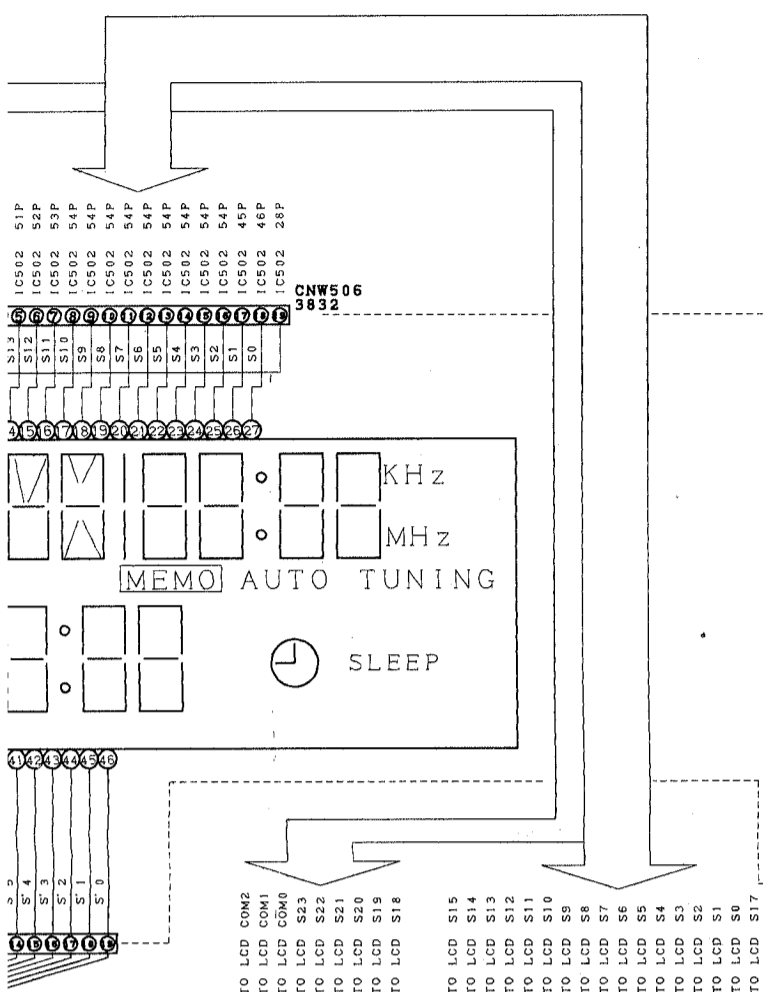


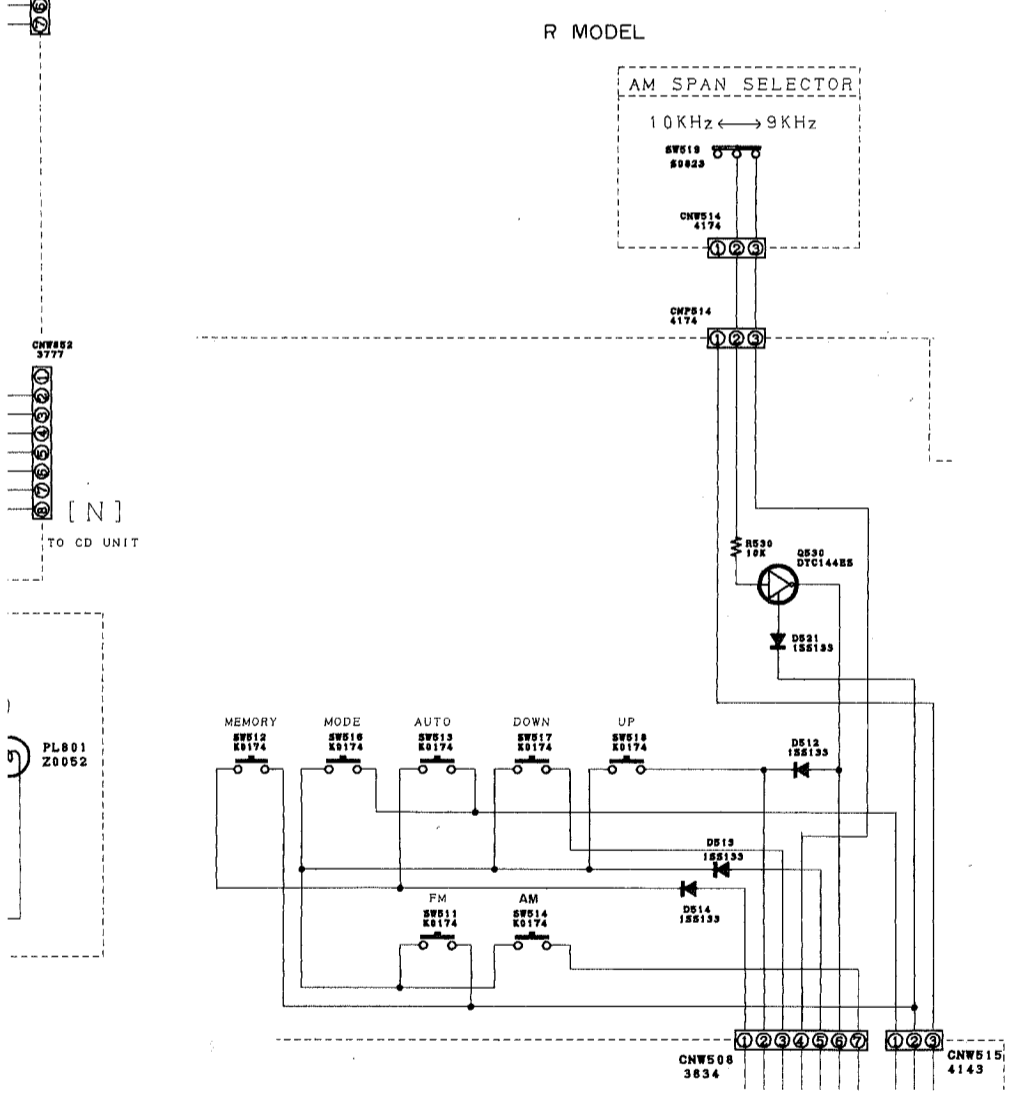
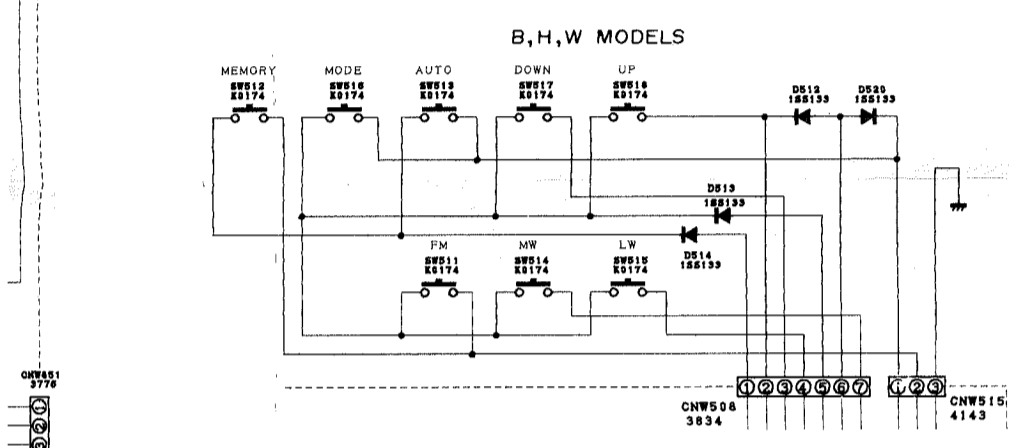
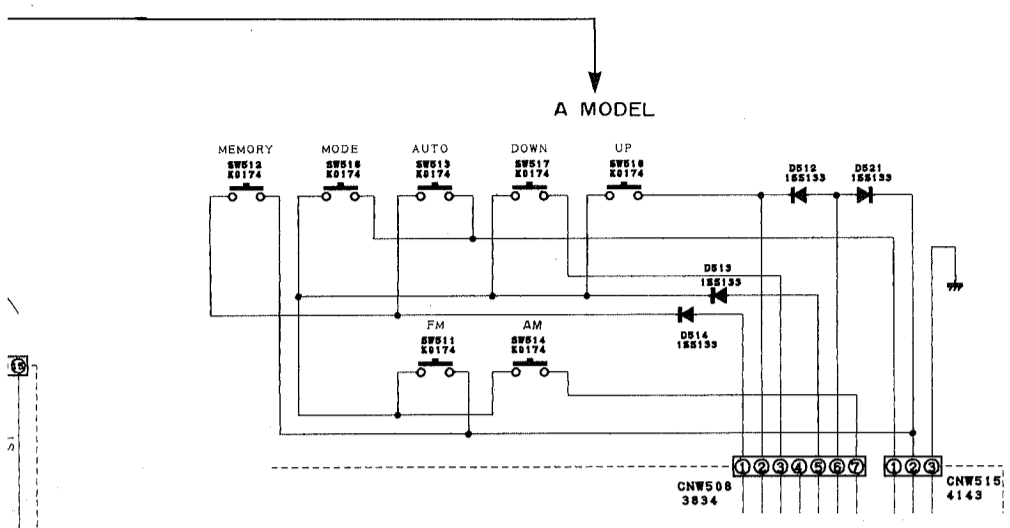
[B]  
TO POWER AMP PWB







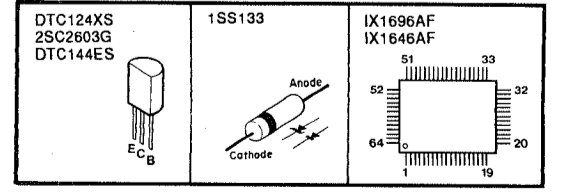




[ N ]  
 TO CD UNIT

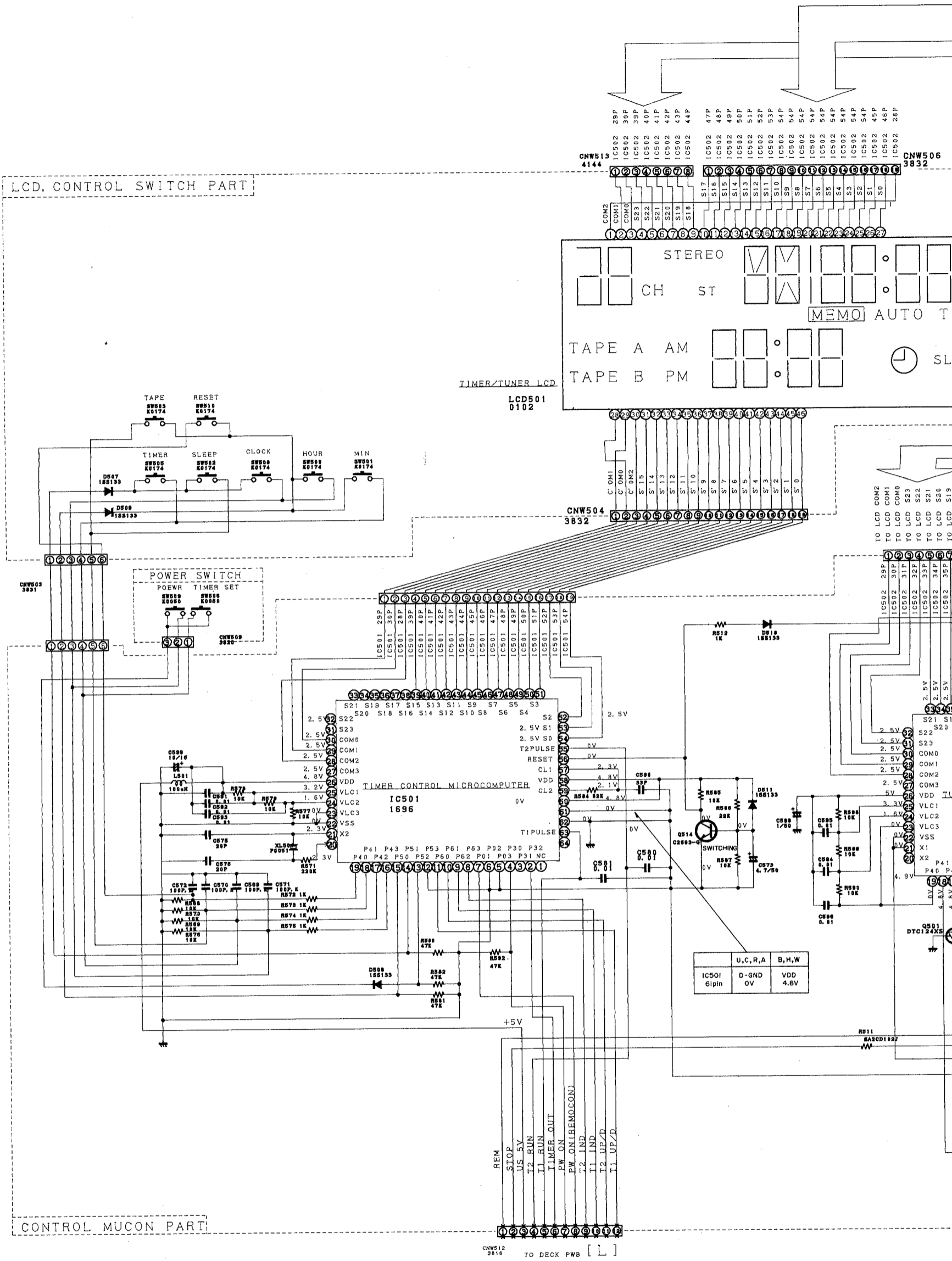


**PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.**



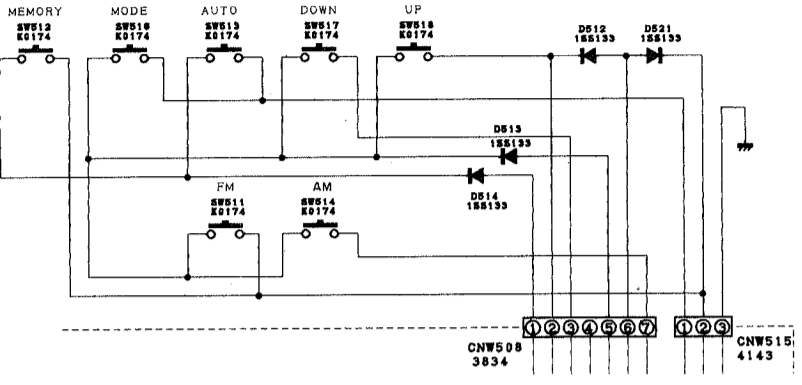
\* All voltage are measured with a 10MΩ/DC electric volt meter.  
 \* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.  
 \* Schematic diagram is subject to change without notice.

**SCHEMATIC DIAGRAM (Display Control Section)**

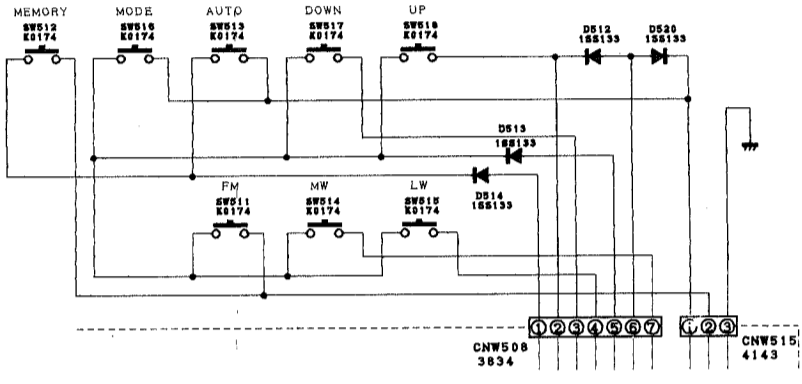




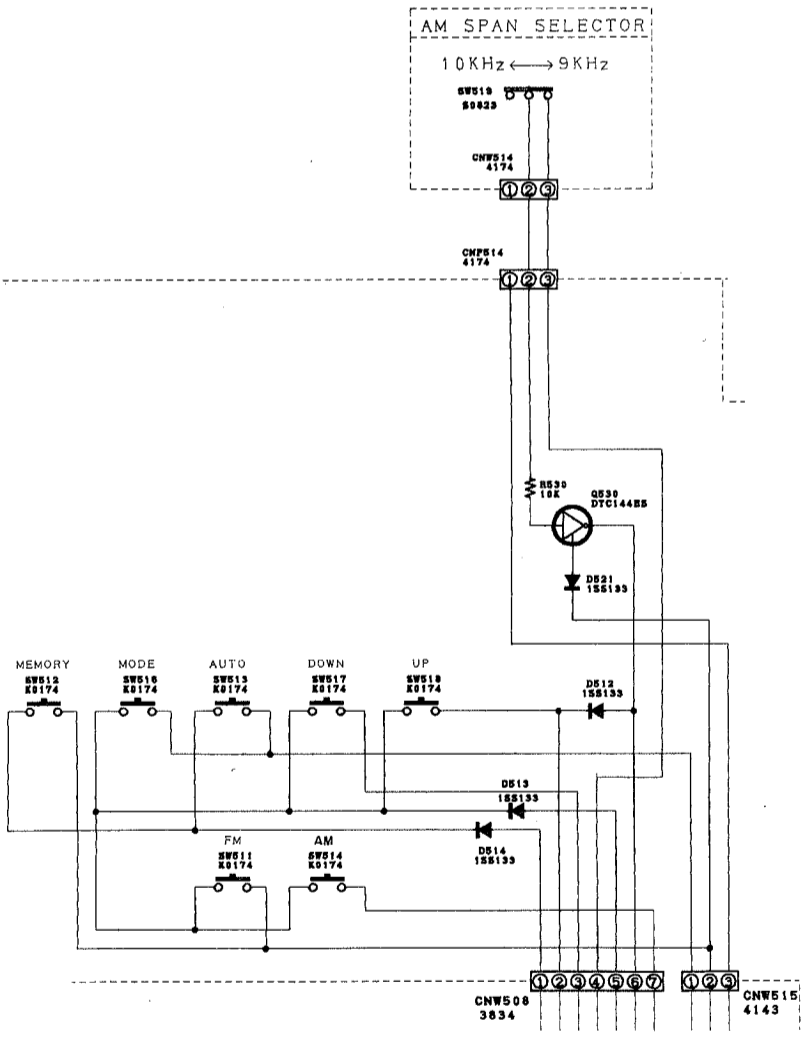
A MODEL



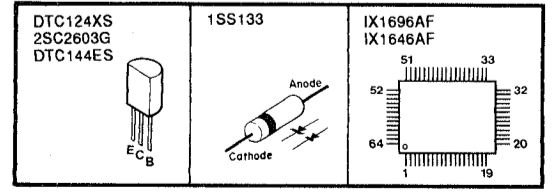
B, H, W MODELS



R MODEL

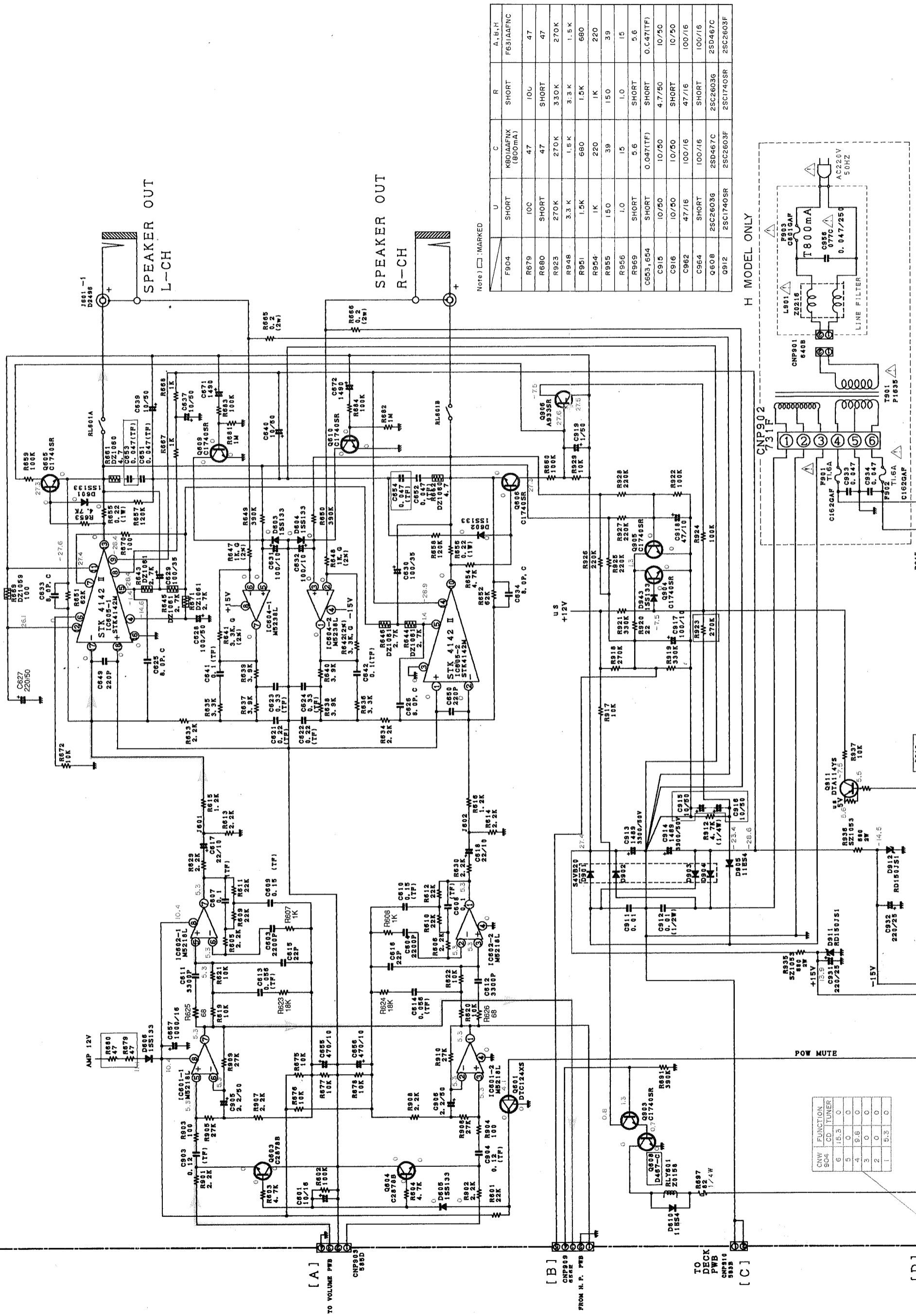


PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.



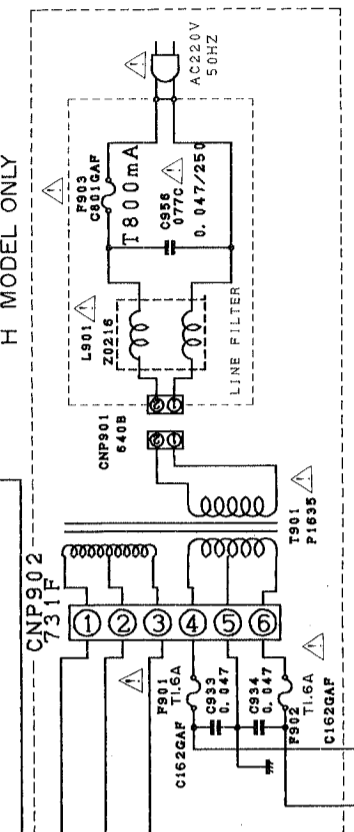
\* All voltage are measured with a 10MΩ/DC electric volt meter.  
 \* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.  
 \* Schematic diagram is subject to change without notice.

**SCHEMATIC DIAGRAM (Power Amp Section...Except W model)**

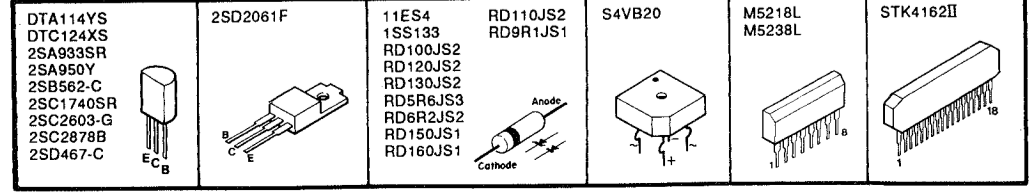


Note:  MARKED

U	C	R	A, B, H
F904	SHORT	KB01AFNX (8000mA)	F631AAFNC
R679	10C	10C	47
R680	SHORT	47	SHORT
R925	270K	270K	330K
R948	3.3K	1.5K	3.3K
R951	1.5K	680	1.5K
R954	1K	220	1K
R955	150	39	150
R956	1.0	5.6	1.0
R969	SHORT	5.6	SHORT
C653, 654	SHORT	0.047(TF)	SHORT
C915	10/50	10/50	4.7/50
C916	10/50	10/50	10/50
C962	47/16	100/16	47/16
C964	SHORT	100/16	SHORT
G608	25C2603G	25D467C	25C2603G
G912	25C1740SR	25C2603F	25C1740SR



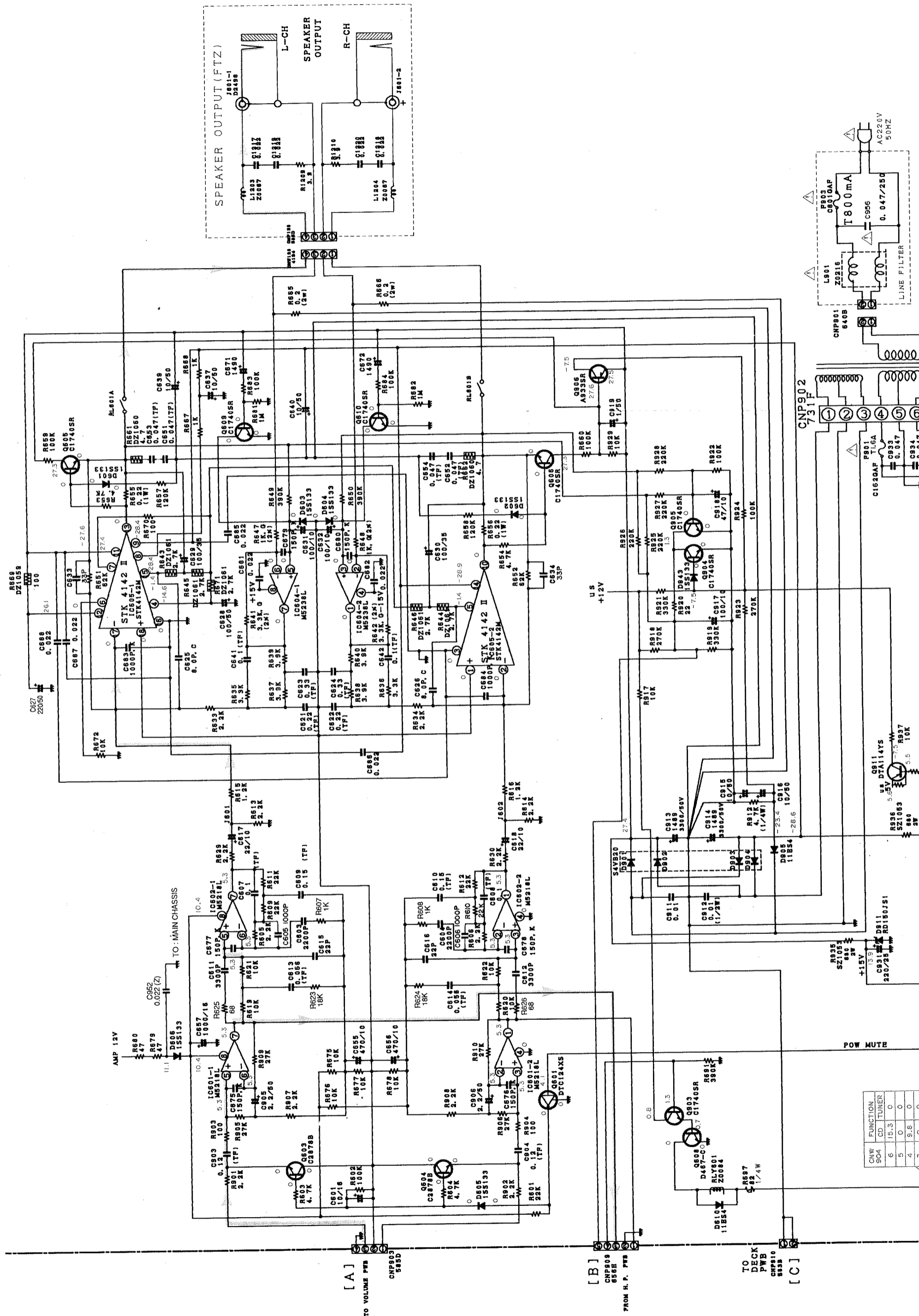
**PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.**



CNP	FUNCTION
SC4	CD-TUNER
5	0
4	9.5
3	0
2	0
1	5.3



SCHEMATIC DIAGRAM (Power Amp Section...W model only)

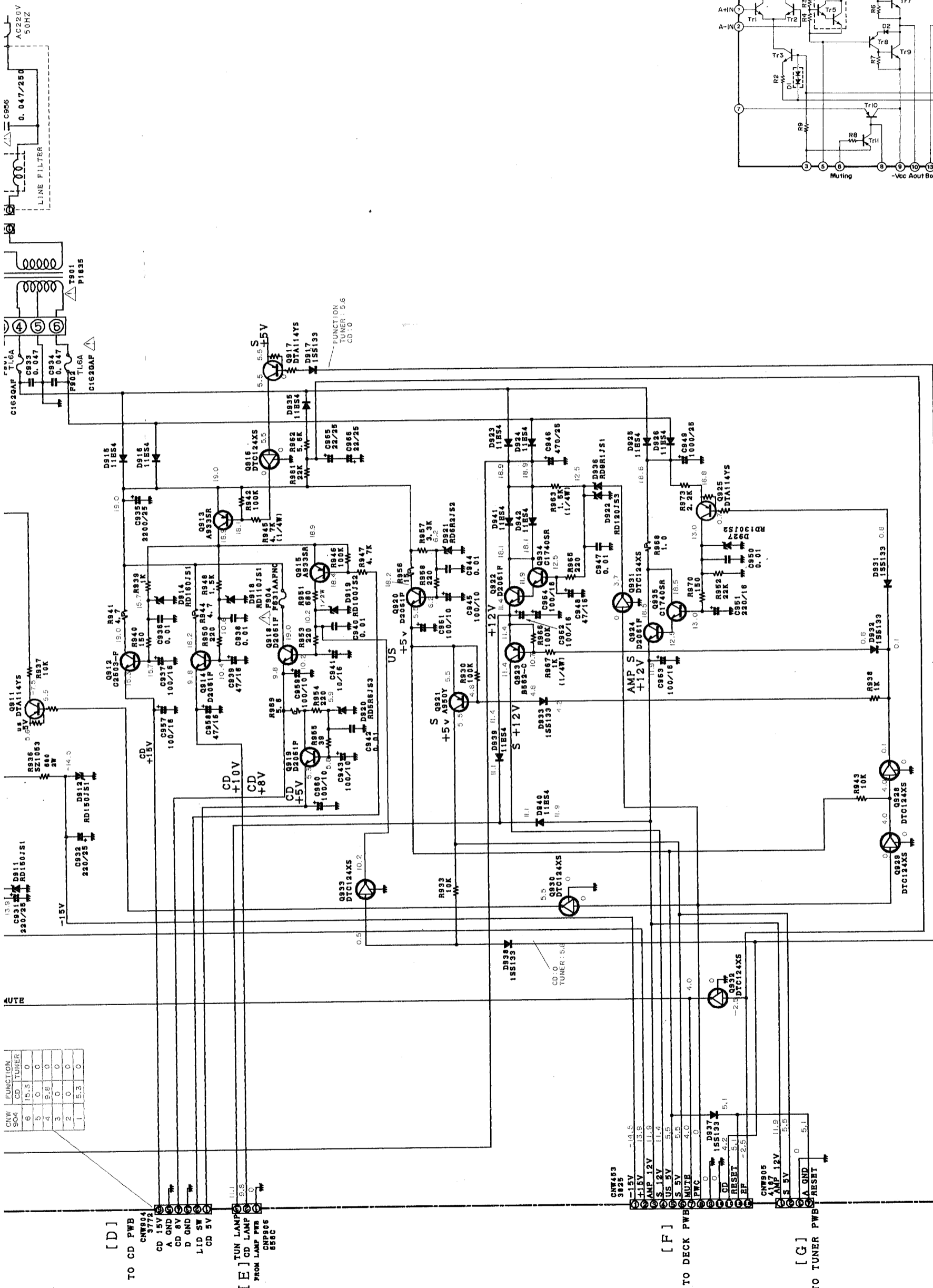
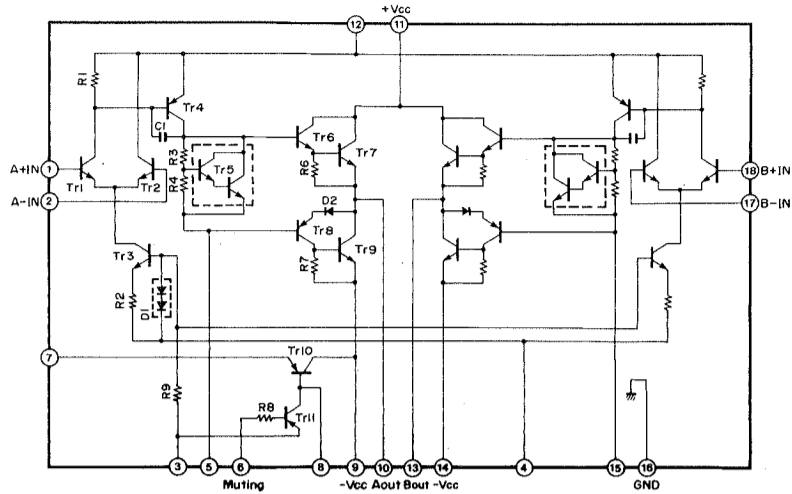


PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.

DTA114YS DTC124XS 2SA933SR 2SA950Y 2SB562-C 2SC1740SR 2SC2603-G 2SC2878B 2SD467-C	2SD2061F	11ES4 1S5133 RD110JS2 RD100JS2 RD120JS2 RD130JS2 RD5R6JS3 RD6R2JS2 RD150JS1 RD160JS1	RD110JS2 RD9R1JS1	S4VB20	M5218L M5238L	STK4162II
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CW	FUNCTION
504	CD TUNER
5	15.3 0
6	0 0
4	5.6 0
7	0 0

STK4142II (IC605)  
AF Power Amp



[D] TO CD PWB

[E] TUN LAMP FROM LAMP PWB

[F] TO DECK PWB

[G] TO TUNER PWB

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