

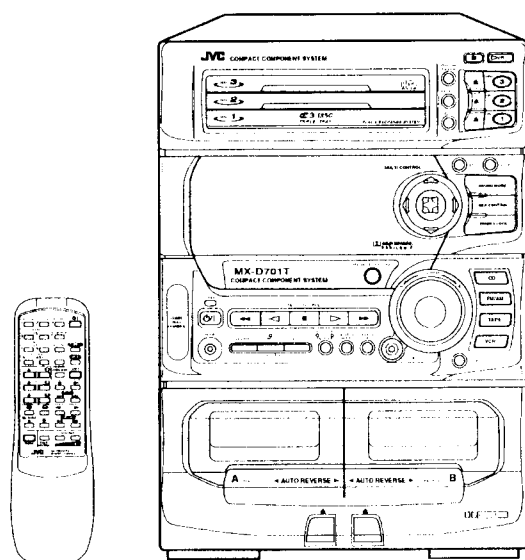
# JVC

## SERVICE MANUAL

### COMPACT COMPONENT SYSTEM

## CA-D701T

PICK UP	OPT-150S
LSI	MN35510



#### Area Suffix

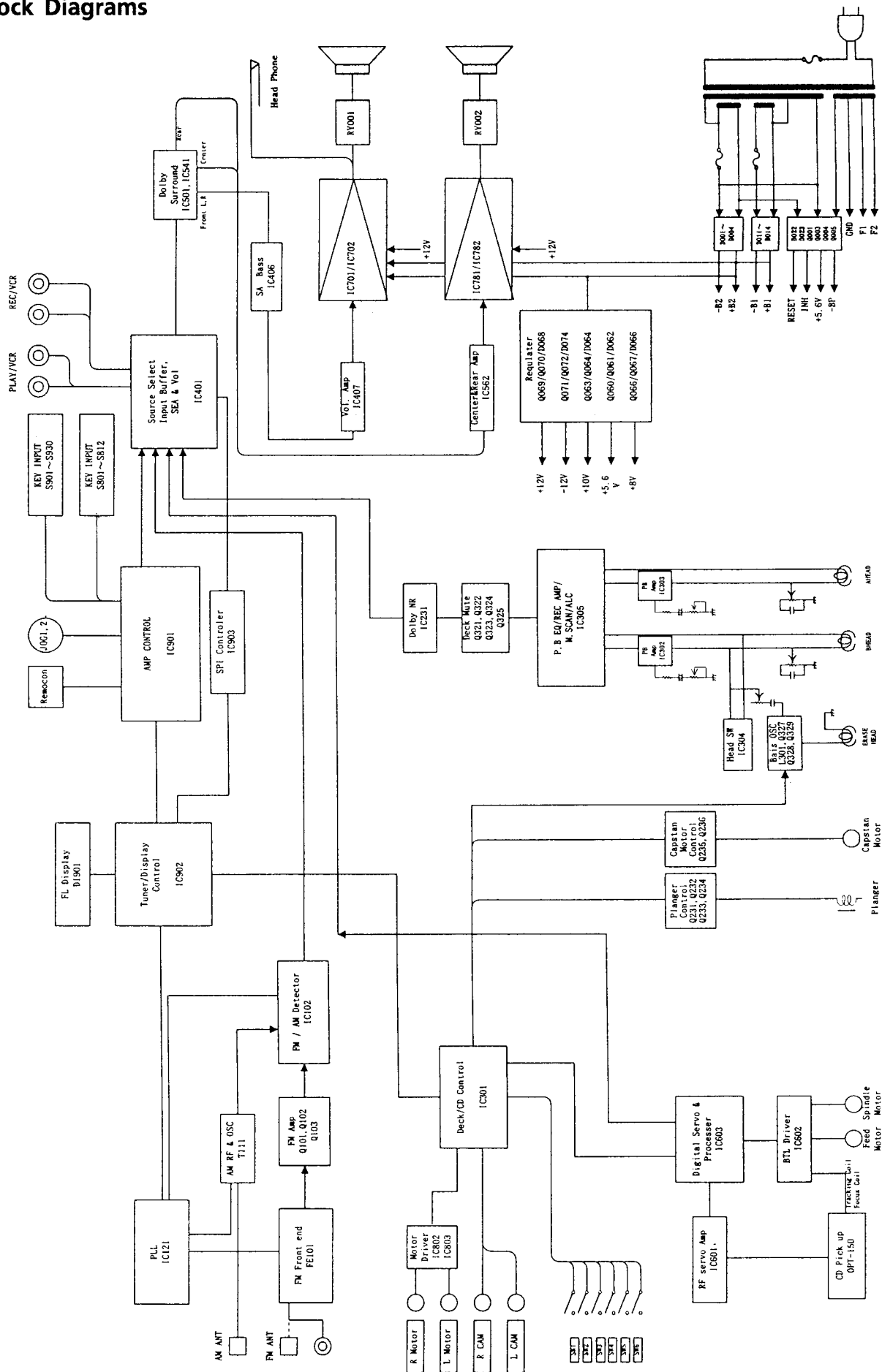
A	.....	Australia
BS	.....	The U.K.
EF	.....	Continental Europe Except Germany & Italy
EN	.....	Nordic Countries
G	.....	Germany
VX	.....	Eastern Europe
UB	.....	Hong Kong
UP	.....	Korea
US	.....	Singapore
UT	.....	Taiwan
U	.....	Universal Except All of Above

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**COMPACT**  
**disc**  
DIGITAL AUDIO

## Block Diagrams





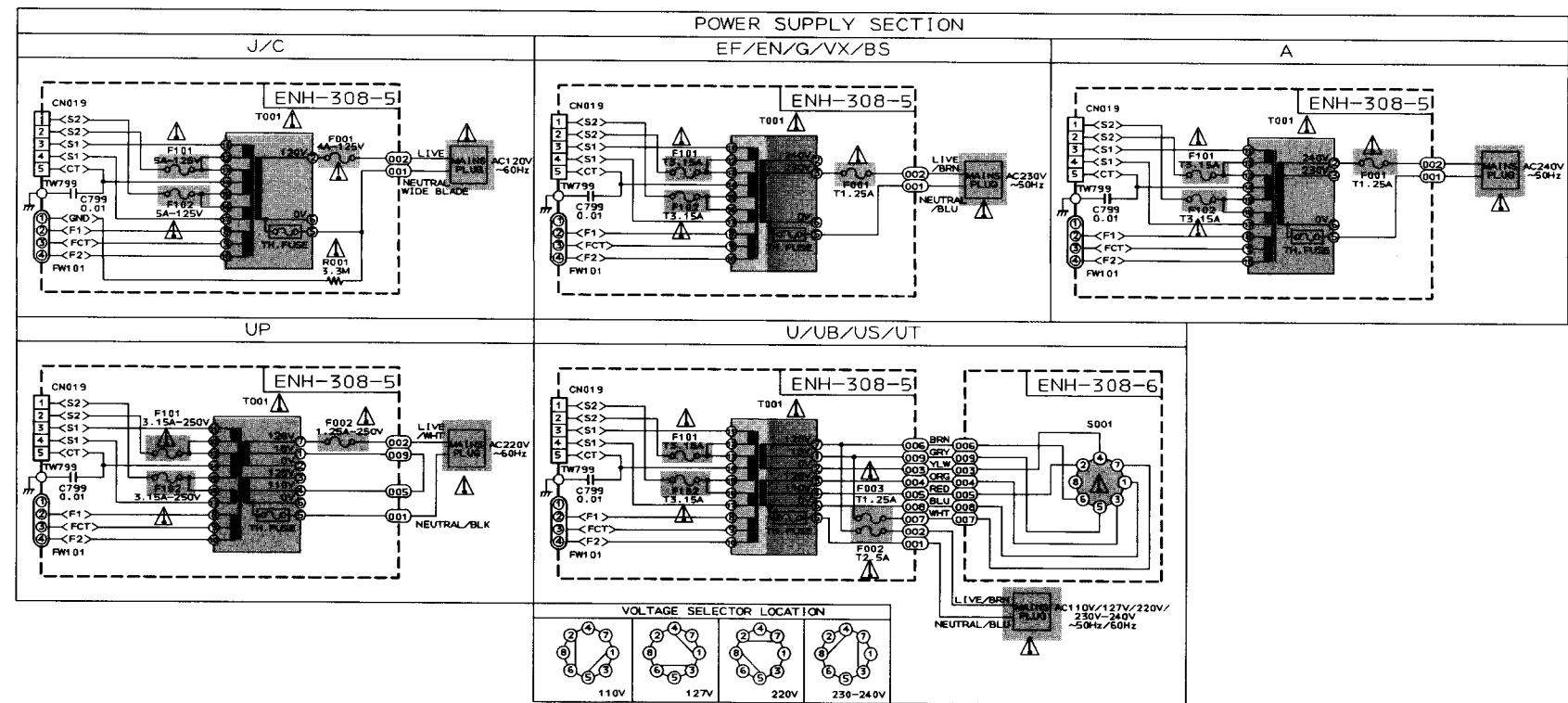
EXPLANATION OF OVERALL OF SCHEMA.  
MODEL CA-D701T/CA-D761T/CA-D851TR

SHEET NUMBER	MODEL NUMBERS TO BE APPLIED	CIRCUITS DESCRIPTION
1/11	CA-D701T/CA-D761T/CA-D851TR	PRIMARY WITH MAINS TRANSFORMER
2/11	CA-D701T/CA-D761T/CA-D851TR	DC REGULATORS/AUDIO OUTPUT
3/11	CA-D701T/CA-D761T/CA-D851TR	EXTERNAL SIGNAL INPUT SOURCE SELECTOR SWITCH MIC AMPLIFIER
4/11	CA-D701T/CA-D761T/CA-D851TR	TAPE DECK MECHANISMS CONTROL MISCELLANEOUS CIRCUITS FOR TAPE DECK SUCH AS AMPLIFIER, SWITCH, BIAS AND OTHERS
5/11	CA-D701T/CA-D761T/CA-D851TR	FL DISPLAY/USER CONTROL KEYS FOR TUNER SECTION AND AUDIO DISC/SYSTEM CONTROL LSI FOR TUNER SECTION
6/11	CA-D701T/CA-D761T	(ONLY FOR J, C, U, UB, US, UT, UP, A) TUNER RF/IF/FM MULTIPLEX
7/11	CA-D701T	(ONLY FOR EF, EN, BS, G) TUNER RF/IF/FM MULTIPLEX
8/11	CA-D851TR	(ONLY FOR EF, EN, BS, G) TUNER RF/IF/FM MULTIPLEX/RDS SIGNAL PROCESSOR ICs
9/11	CA-D701T	(ONLY FOR VX) TUNER RF/IF/FM MULTIPLEX
10/11	CA-D701T/CA-D761T/CA-D851TR	AMPLIFIER FOR AUDIO DISC SYSTEM CONTROL LSI FOR AUDIO DISC
11/11	CA-D701T/CA-D761T/CA-D851TR	AUDIO DISC MECHANISMS CONTROL

VERSION CODES

J : U.S.A.  
C : CANADA  
EN: NORDIC COUNTRIES  
EF: CONTINENTAL EUROPE EXCEPT GERMANY  
G : GERMANY  
VX: EASTERN EUROPE  
BS: U.K.  
A : AUSTRARIA  
UP: KOREA  
UB: HONGKONG  
US: SINGAPORE  
UT: TAIWAN  
U : UNIVERSAL EXCEPT ALL OF ABOVEs

NOTES:  
MARK (\*) IS TO SHOW DEVIATION IN VERSIONS.  
DETAILS ARE EXPLAINED NEAR THE MARK.



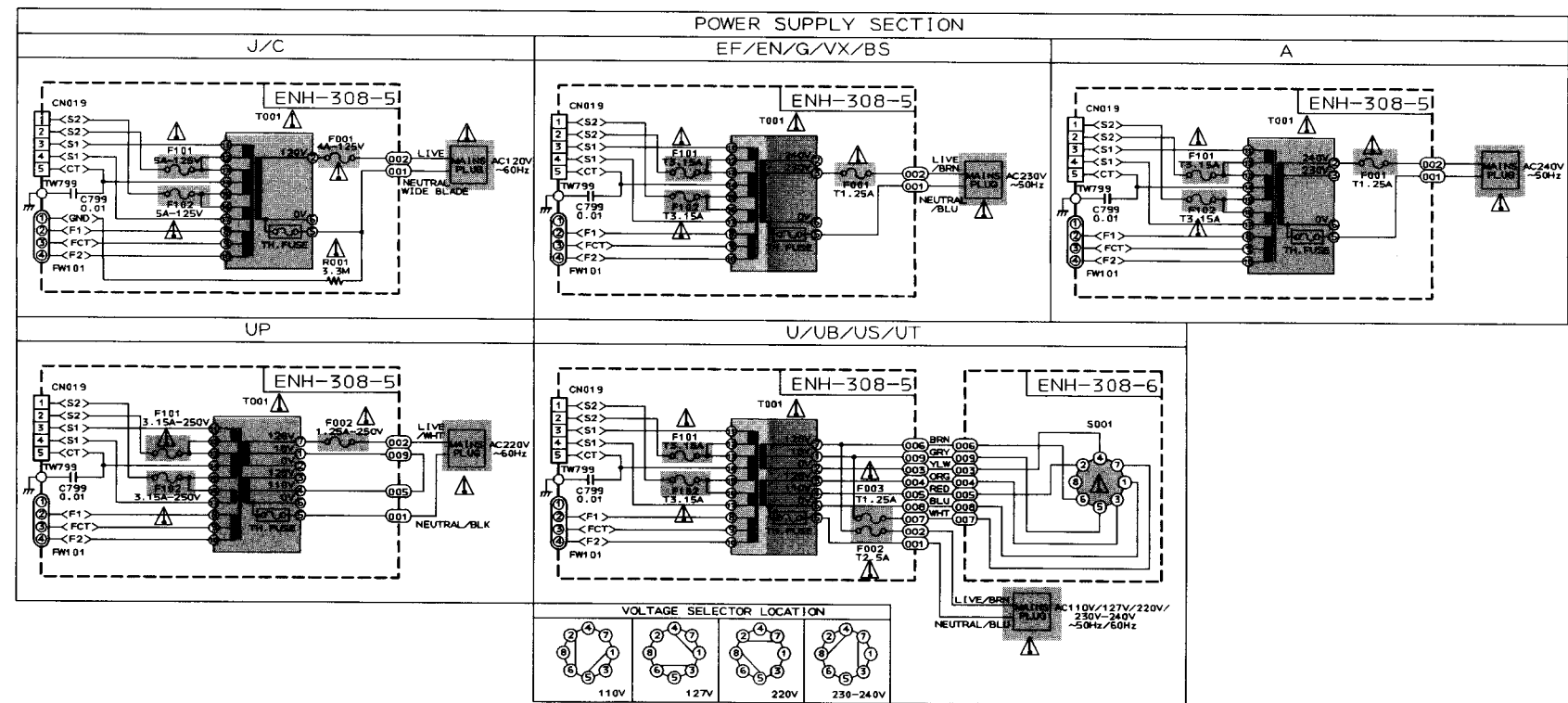
EXPLANATION OF OVERALL OF SCHEMA.  
MODEL CA-D701T/CA-D761T/CA-D851TR

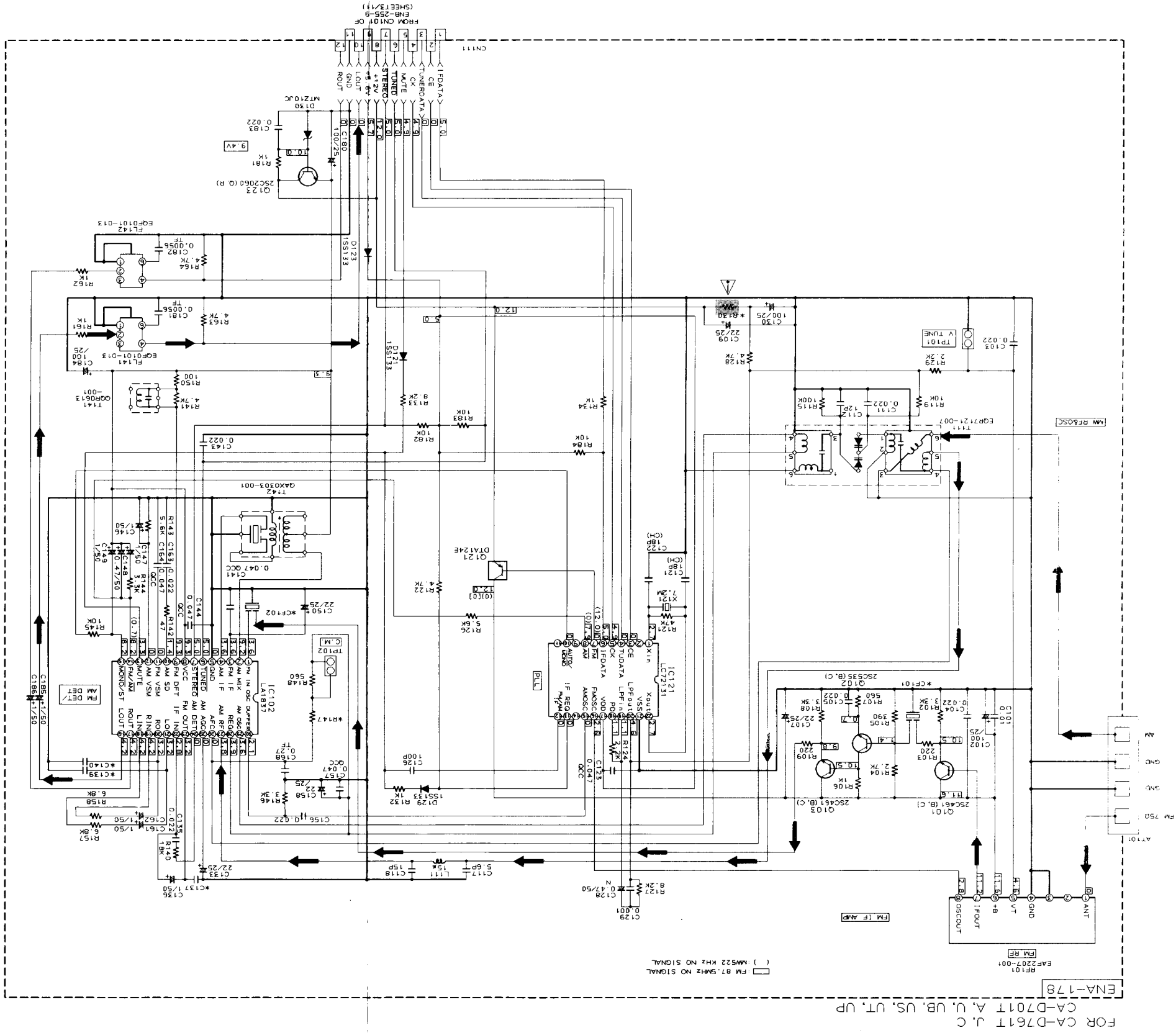
SHEET NUMBER	MODEL NUMBERS TO BE APPLIED	CIRCUITS DESCRIPTION
1/11	CA-D701T/CA-D761T /CA-D851TR	· PRIMARY WITH MAINS TRANSFORMER
2/11	CA-D701T/CA-D761T /CA-D851TR	· DC REGULATORS/AUDIO OUTPUT
3/11	CA-D701T/CA-D761T /CA-D851TR	· EXTERNAL SIGNAL INPUT · SOURCE SELECTOR SWITCH · MIC AMPLIFIER
4/11	CA-D701T/CA-D761T /CA-D851TR	· TAPE DECK MECHANISMS CONTROL · MISCELLANEOUS CIRCUITS FOR TAPE DECK SUCH AS AMPLIFIER, SWITCH, BIAS AND OTHERS
5/11	CA-D701T/CA-D761T /CA-D851TR	· FL DISPLAY/USER CONTROL KEYS FOR TUNER SECTION AND AUDIO DISC/SYSTEM CONTROL LSI FOR TUNER SECTION
6/11	CA-D701T/CA-D761T	· (ONLY FOR J, C, U, UB, US, UT, UP, A) TUNER RF/IF/FM MULTIPLEX
7/11	CA-D701T	· (ONLY FOR EF, EN, BS, G) TUNER RF/IF/FM MULTIPLEX
8/11	CA-D851TR	· (ONLY FOR EF, EN, BS, G) TUNER RF/IF/FM MULTIPLEX/RDS SIGNAL PROCESSOR ICs
9/11	CA-D701T	· (ONLY FOR VX) TUNER RF/IF/FM MULTIPLEX
10/11	CA-D701T/CA-D761T /CA-D851TR	· AMPLIFIER FOR AUDIO DISC · SYSTEM CONTROL LSI FOR AUDIO DISC
11/11	CA-D701T/CA-D761T /CA-D851TR	· AUDIO DISC MECHANISMS CONTROL

VERSION CODES

J : U.S.A.  
C : CANADA  
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EF: CONTINENTAL EUROPE EXCEPT GERMANY  
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UB: HONGKONG  
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NOTES:  
MARK (\*) IS TO SHOW DEVIATION IN VERSIONS.  
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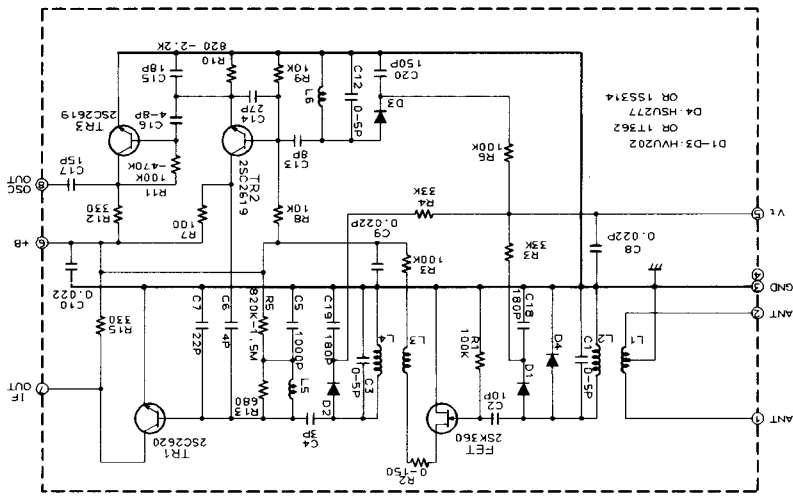






CA-0761T	J.C	680P	560P
CA-0701T	U.B, U.S, UT, UP, A		
		0.033TF	0.022TF
CF101, 102	0AX0284 -001Z		0AX0285 -001Z
R130	UNF. F. (1/4W) 68		UNF. F. (1/4W) 68
R147	15K		27K

RK

RF101  
EAF2207-001



- Notes:
1. → indicates Main signal path.

- indicates CENTER & REAR signal path.  
When replacing the parts in the darkened area (  ) and those marked with , be sure to use the designated

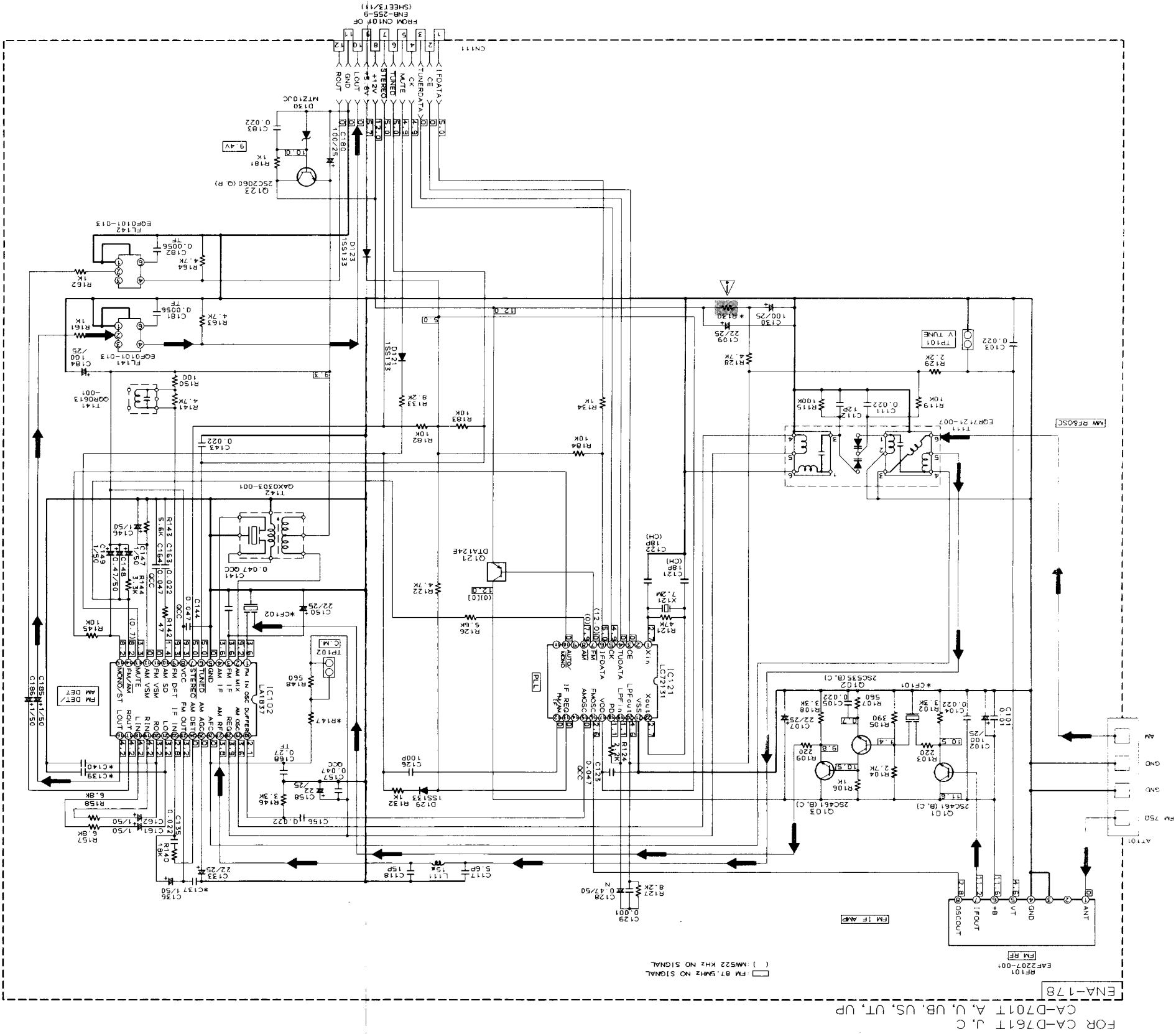
parts to ensure safety.

5. This is the standard circuit diagram.

The design and contents are subject to change without notice.

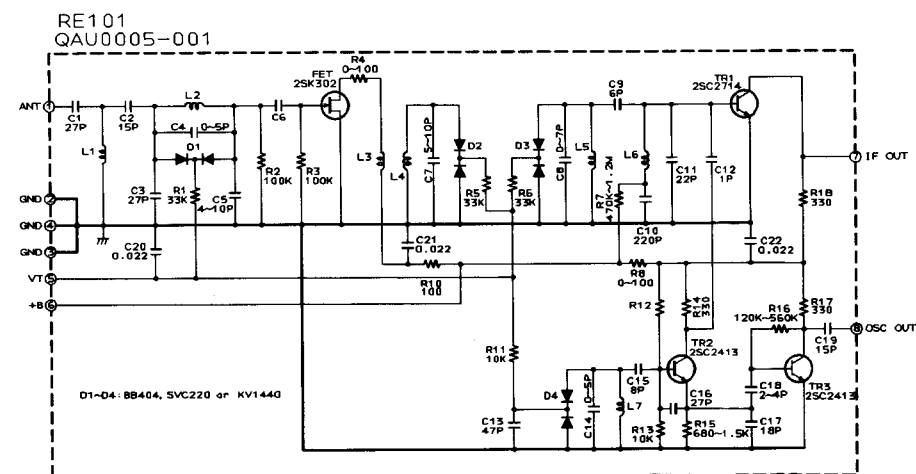
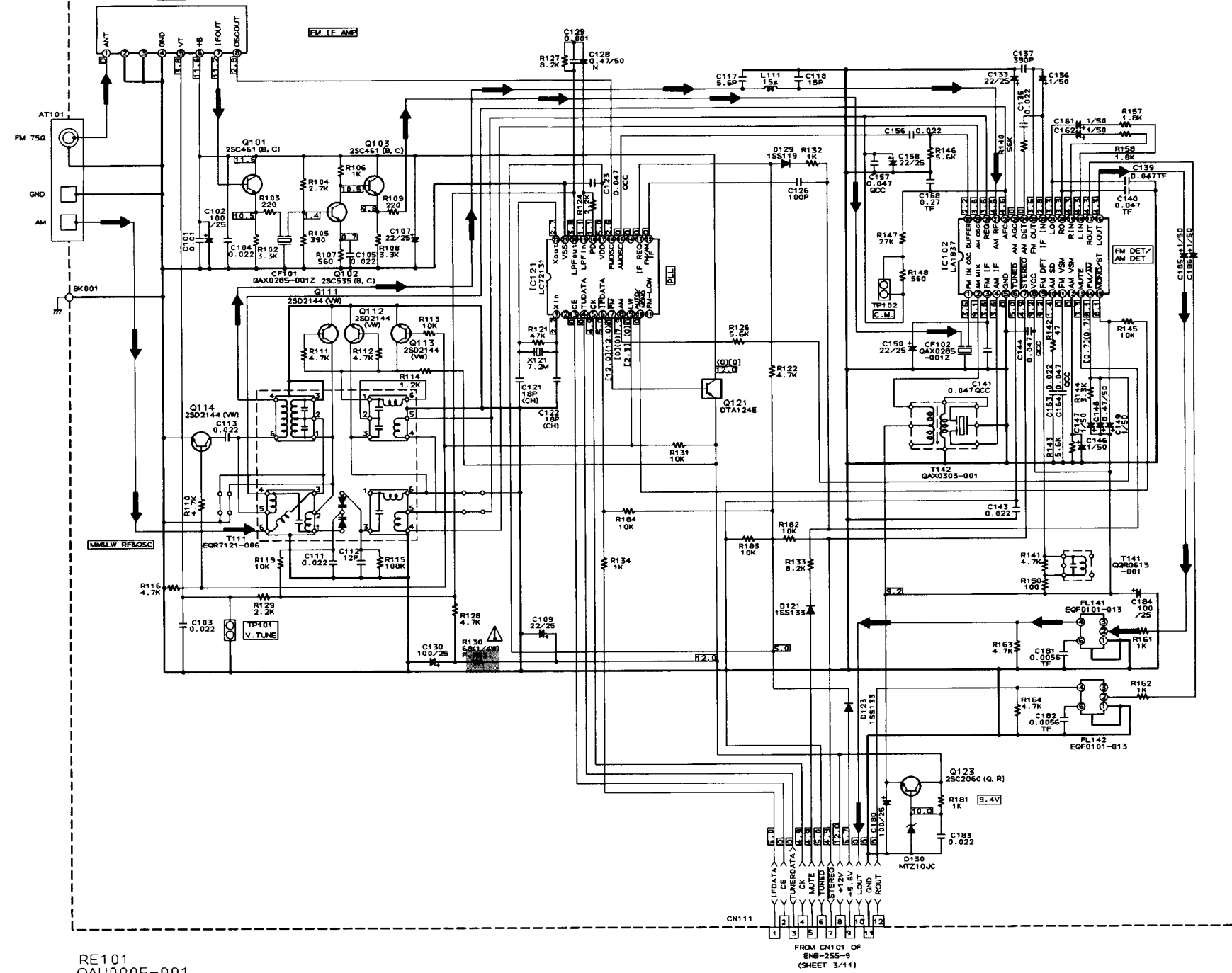
Tuner Section: Only used for J,C,U,UB,US,UT,UP,A version)

CA-D701T



ENA-178

☐ : FM 87.5MHz NO SIGNAL  
☐ : MW522 KHz NO SIGNAL  
☐ : LW 144KHz NO SIGNAL

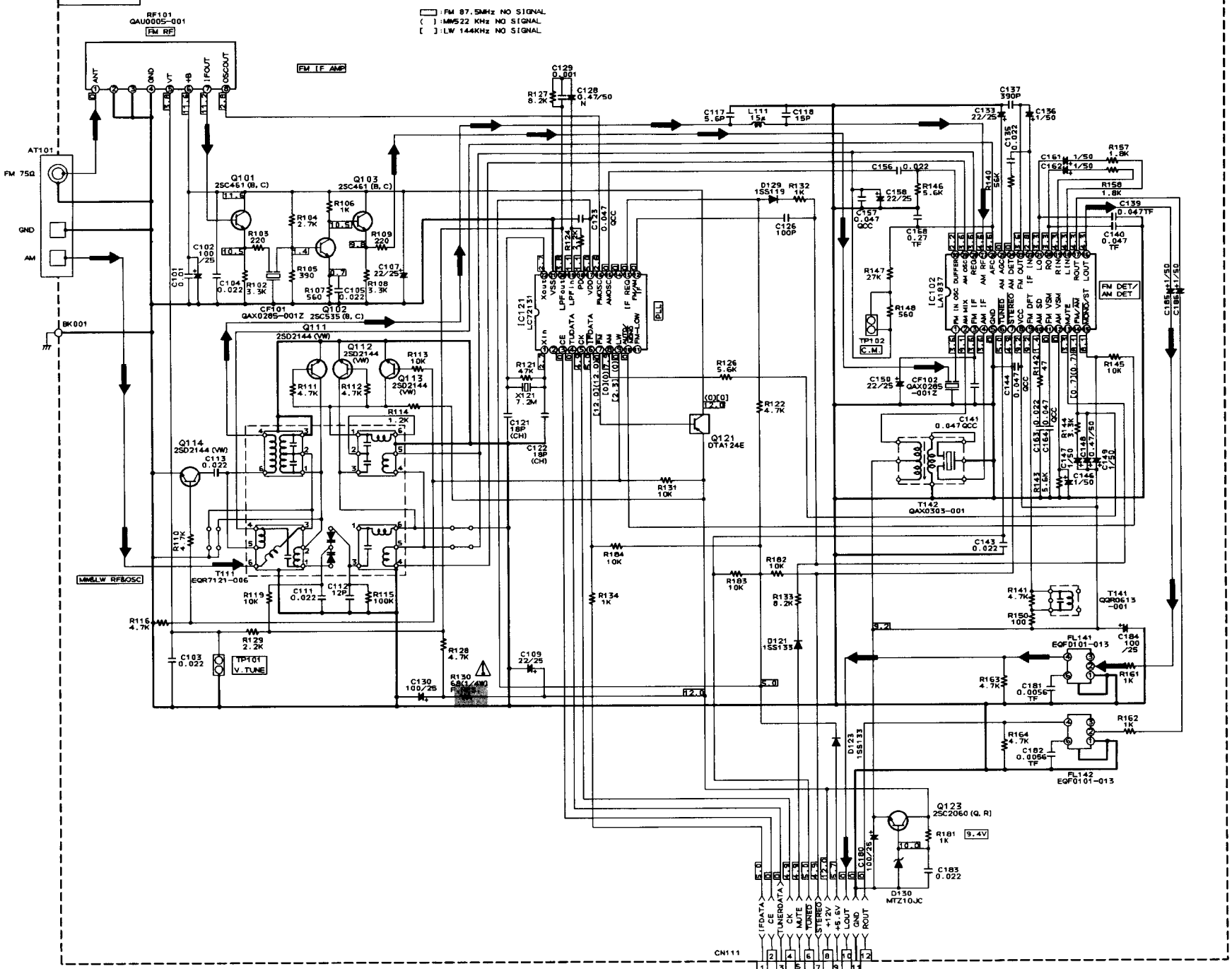




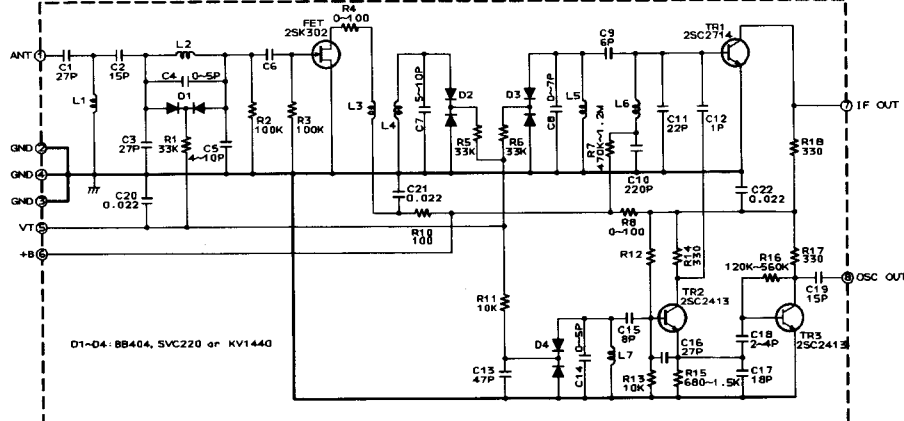
Tuner Section: Only used for EF,EN,BS,G version)

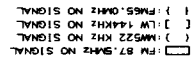
FOR CA-D701T EF, EN, G, BS (WITHOUT RDS)

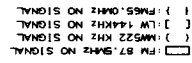
ENA-178



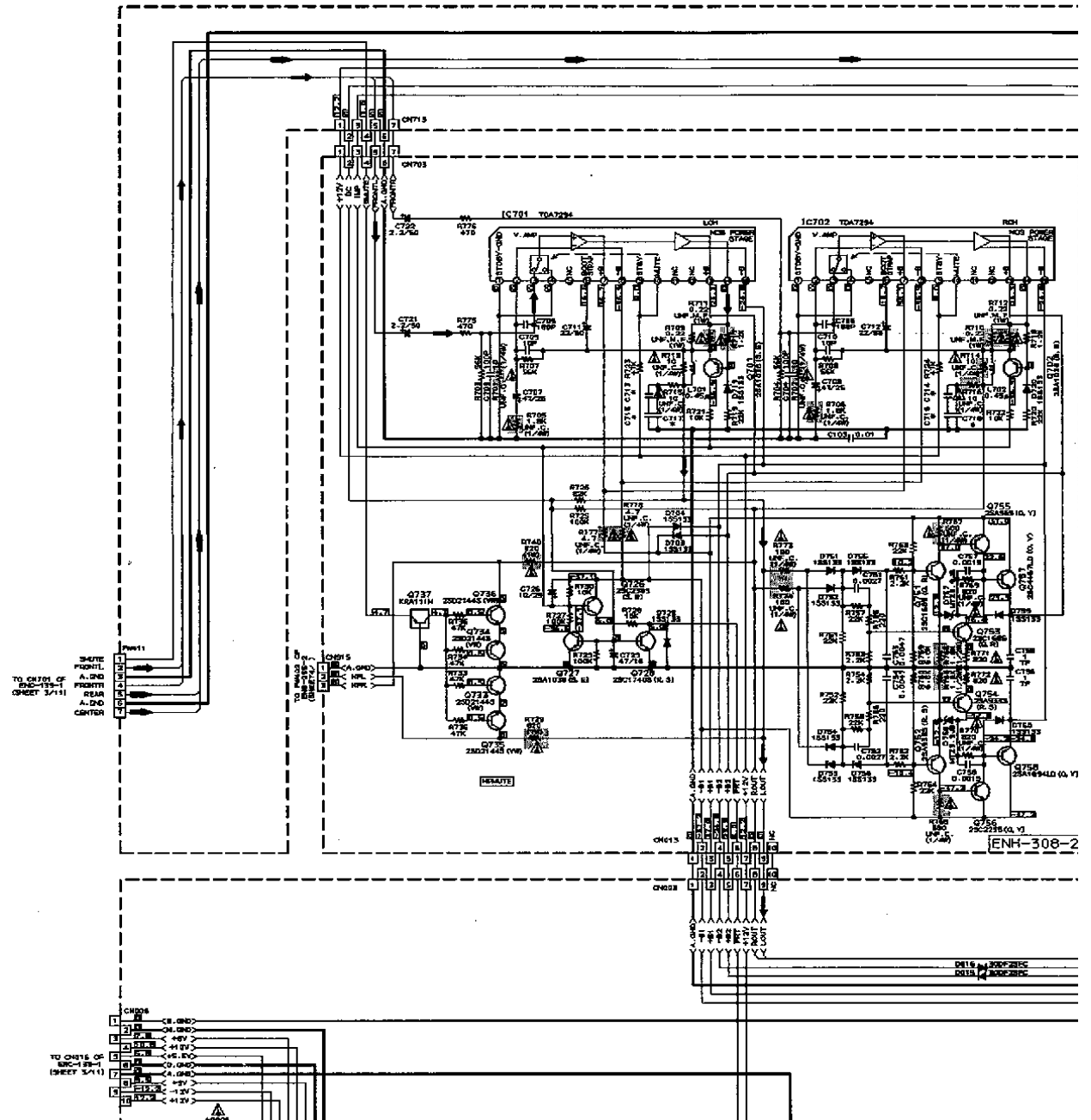
RE101  
GAU0005-001

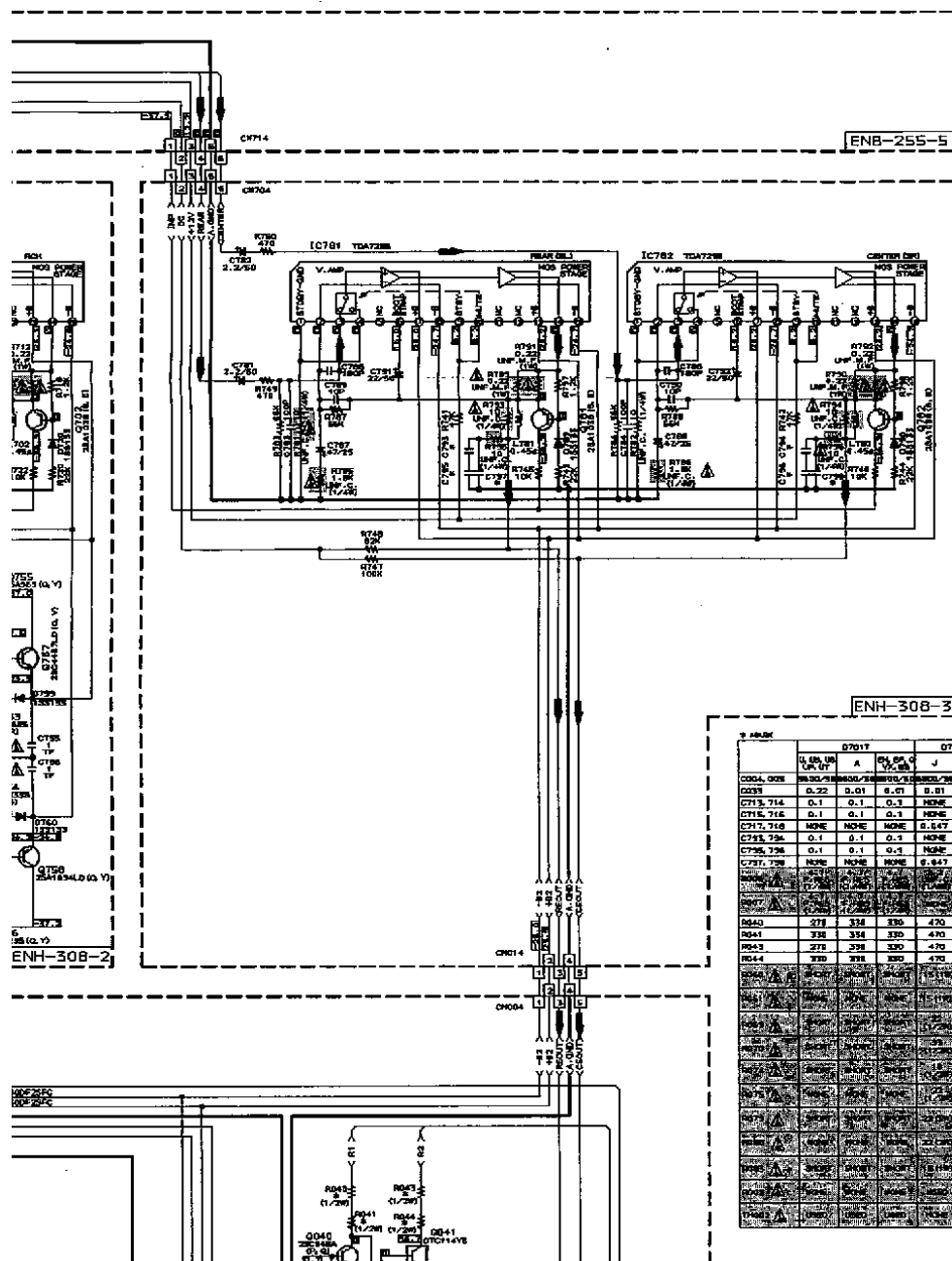






### DC Regulators/Audio Output Section





S. NAME	0701T			0705T			0801T		
	1. LB. US SP. ST	A	CH. SP. G US. ST	J	G	CH. SP. G US. ST	J	G	CH. SP. G US. ST
0004. 000	0.22	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0005	0.22	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
0713. 714	0.1	0.1	0.1	NONE	0.1	0.1	0.1	0.1	0.1
0716. 716	0.1	0.1	0.1	NONE	0.1	0.1	0.1	0.1	0.1
0717. 718	NONE	NONE	NONE	0.147	NONE	0.147	NONE	0.1	0.1
0733. 736	0.1	0.1	0.1	NONE	0.1	0.1	0.1	0.1	0.1
0736. 736	0.1	0.1	0.1	NONE	0.1	0.1	0.1	0.1	0.1
0737. 736	NONE	NONE	NONE	0.647	NONE	NONE	NONE	NONE	NONE
0737. 736	NONE	NONE	NONE	0.647	NONE	NONE	NONE	NONE	NONE
0807	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
0840	378	334	330	470	478	370	470	370	370
0841	378	334	330	470	478	370	470	370	370
0843	278	238	330	470	470	370	470	370	370
0844	378	334	330	470	478	370	470	370	370
0845	378	334	330	470	478	370	470	370	370
0846	378	334	330	470	478	370	470	370	370
0847	378	334	330	470	478	370	470	370	370
0848	378	334	330	470	478	370	470	370	370
0849	378	334	330	470	478	370	470	370	370
0850	378	334	330	470	478	370	470	370	370
0851	378	334	330	470	478	370	470	370	370
0852	378	334	330	470	478	370	470	370	370
0853	378	334	330	470	478	370	470	370	370
0854	378	334	330	470	478	370	470	370	370
0855	378	334	330	470	478	370	470	370	370
0856	378	334	330	470	478	370	470	370	370
0857	378	334	330	470	478	370	470	370	370
0858	378	334	330	470	478	370	470	370	370
0859	378	334	330	470	478	370	470	370	370
0860	378	334	330	470	478	370	470	370	370
0861	378	334	330	470	478	370	470	370	370
0862	378	334	330	470	478	370	470	370	370
0863	378	334	330	470	478	370	470	370	370
0864	378	334	330	470	478	370	470	370	370
0865	378	334	330	470	478	370	470	370	370
0866	378	334	330	470	478	370	470	370	370
0867	378	334	330	470	478	370	470	370	370
0868	378	334	330	470	478	370	470	370	370
0869	378	334	330	470	478	370	470	370	370
0870	378	334	330	470	478	370	470	370	370
0871	378	334	330	470	478	370	470	370	370
0872	378	334	330	470	478	370	470	370	370
0873	378	334	330	470	478	370	470	370	370
0874	378	334	330	470	478	370	470	370	370
0875	378	334	330	470	478	370	470	370	370
0876	378	334	330	470	478	370	470	370	370
0877	378	334	330	470	478	370	470	370	370
0878	378	334	330	470	478	370	470	370	370
0879	378	334	330	470	478	370	470	370	370
0880	378	334	330	470	478	370	470	370	370
0881	378	334	330	470	478	370	470	370	370
0882	378	334	330	470	478	370	470	370	370
0883	378	334	330	470	478	370	470	370	370
0884	378	334	330	470	478	370	470	370	370
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0887	378	334	330	470	478	370	470	370	370
0888	378	334	330	470	478	370	470	370	370
0889	378	334	330	470	478	370	470	370	370
0890	378	334	330	470	478	370	470	370	370
0891	378	334	330	470	478	370	470	370	370
0892	378	334	330	470	478	370	470	370	370
0893	378	334	330	470	478	370	470	370	370
0894	378	334	330	470	478	370	470	370	370
0895	378	334	330	470	478	370	470	370	370
0896	378	334	330	470	478	370	470	370	370
0897	378	334	330	470	478	370	470	370	370
0898	378	334	330	470	478	370	470	370	370
0899	378	334	330	470	478	370	470	370	370
0900	378	334	330	470	478	370	470	370	370

J

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**G**

F



ENB-255-9

TO CN111 OF ENA-178 (SHEET 6, 7, 8, 9/11)

TO CN121 OF ENB-255-9 (SHEET 5/11)

TO CN131 OF ENB-255-9 (SHEET 5/11)

TO CN613 OF ENB-255-9 (SHEET 10/11)

TO CN481 OF ENB-255-9 (SHEET 5/11)

IC401 TDA7439

IC402 BA1521B (1/2)

IC403 BA1521B (1/2)

IC404 BA1521B (1/2)

IC405 BA1521B (1/2)

IC406 LA2550

Q481 1SS133

Q482 2SD2144S (VW)

Q483 KRC1024

Q484 2SD2144S (VW)

Q485 1SS133

Q486 1SS133

Q487 1SS133

Q488 1SS133

Q489 1SS133

Q490 1SS133

Q491 KRC1024

Q492 2SD1565 (E, F)

Q493 1SS133

Q494 1SS133

Q495 1SS133

Q496 1SS133

Q497 1SS133

Q498 1SS133

Q499 1SS133

Q500 1SS133

Q501 1SS133

Q502 1SS133

Q503 1SS133

Q504 1SS133

Q505 1SS133

Q506 1SS133

Q507 1SS133

Q508 1SS133

Q509 1SS133

Q510 1SS133

Q511 1SS133

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Q701 1SS133

Q702 1SS133

Q703 1SS133

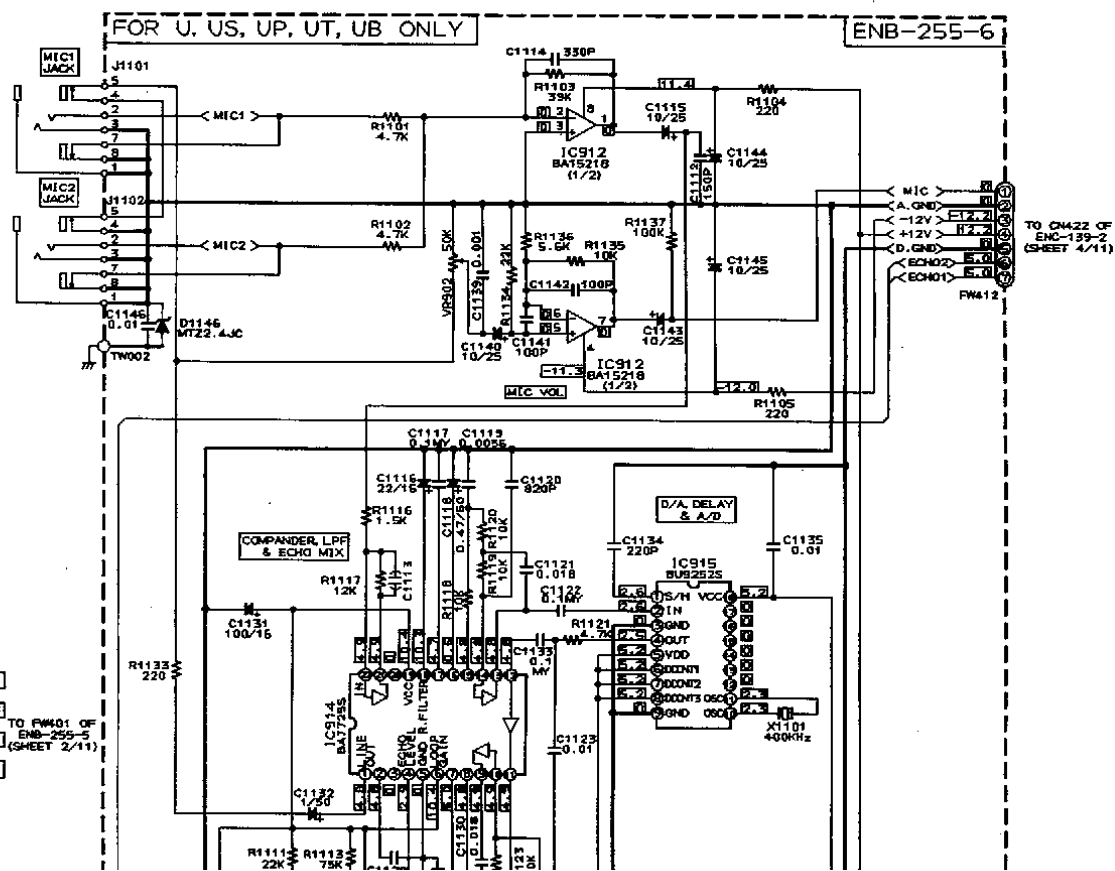
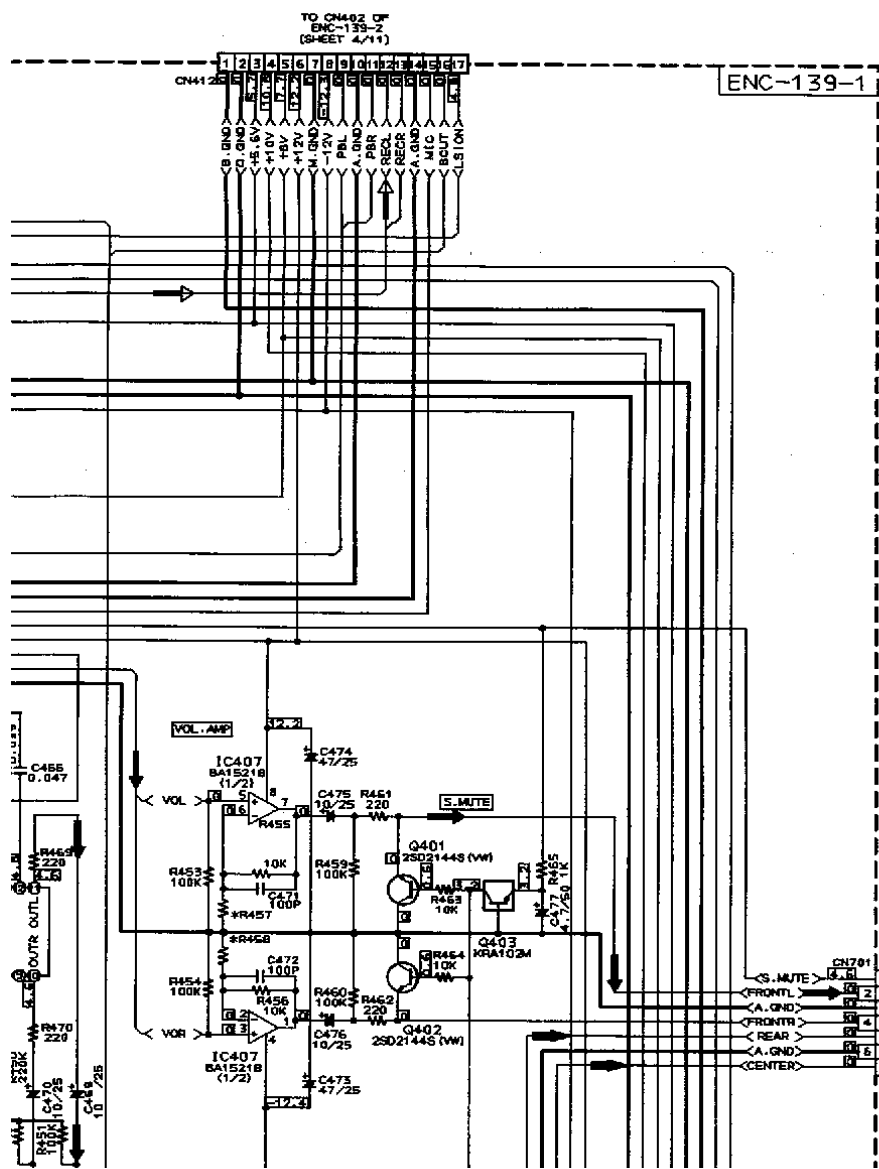
Q704 1SS133

Q705 1SS133

Q706 1SS133

Q707 1SS133





4

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2-54

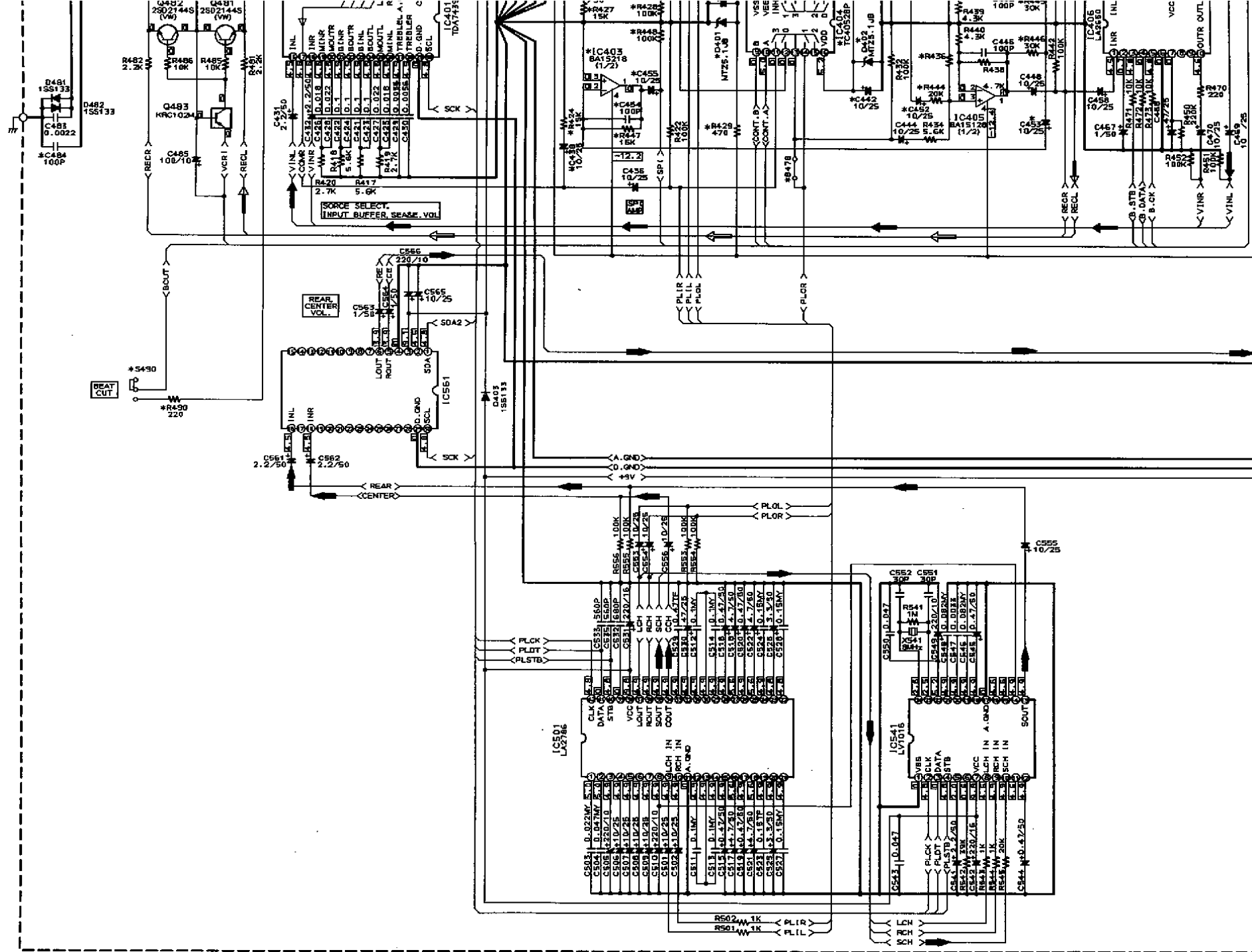
A

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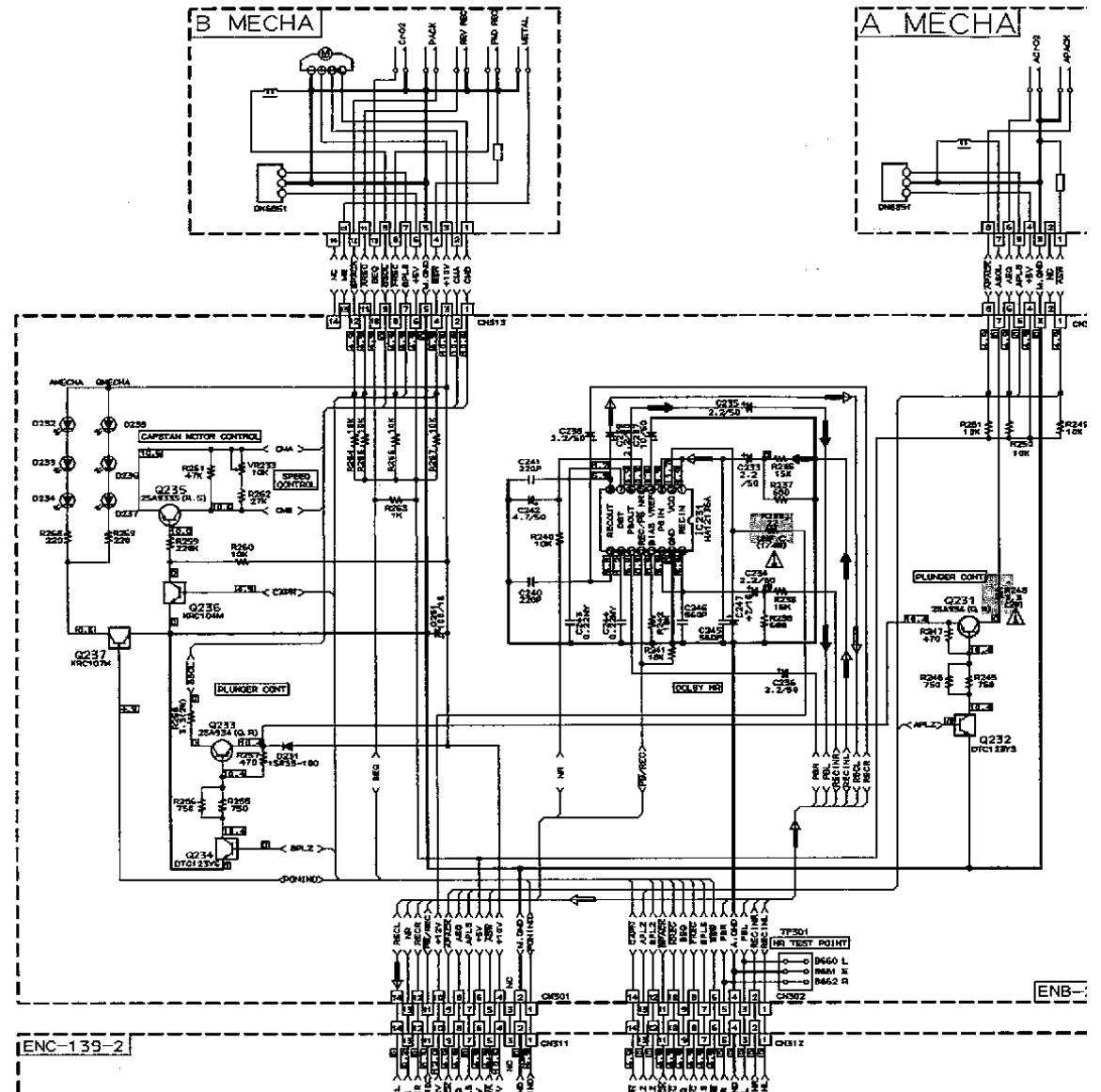
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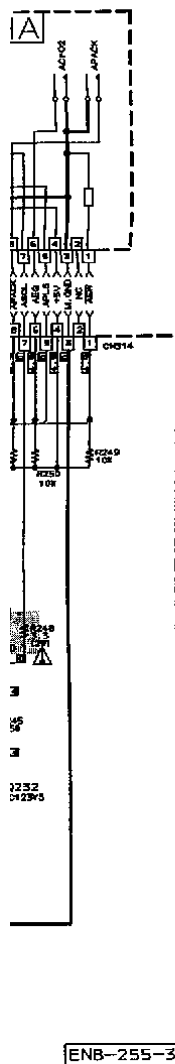
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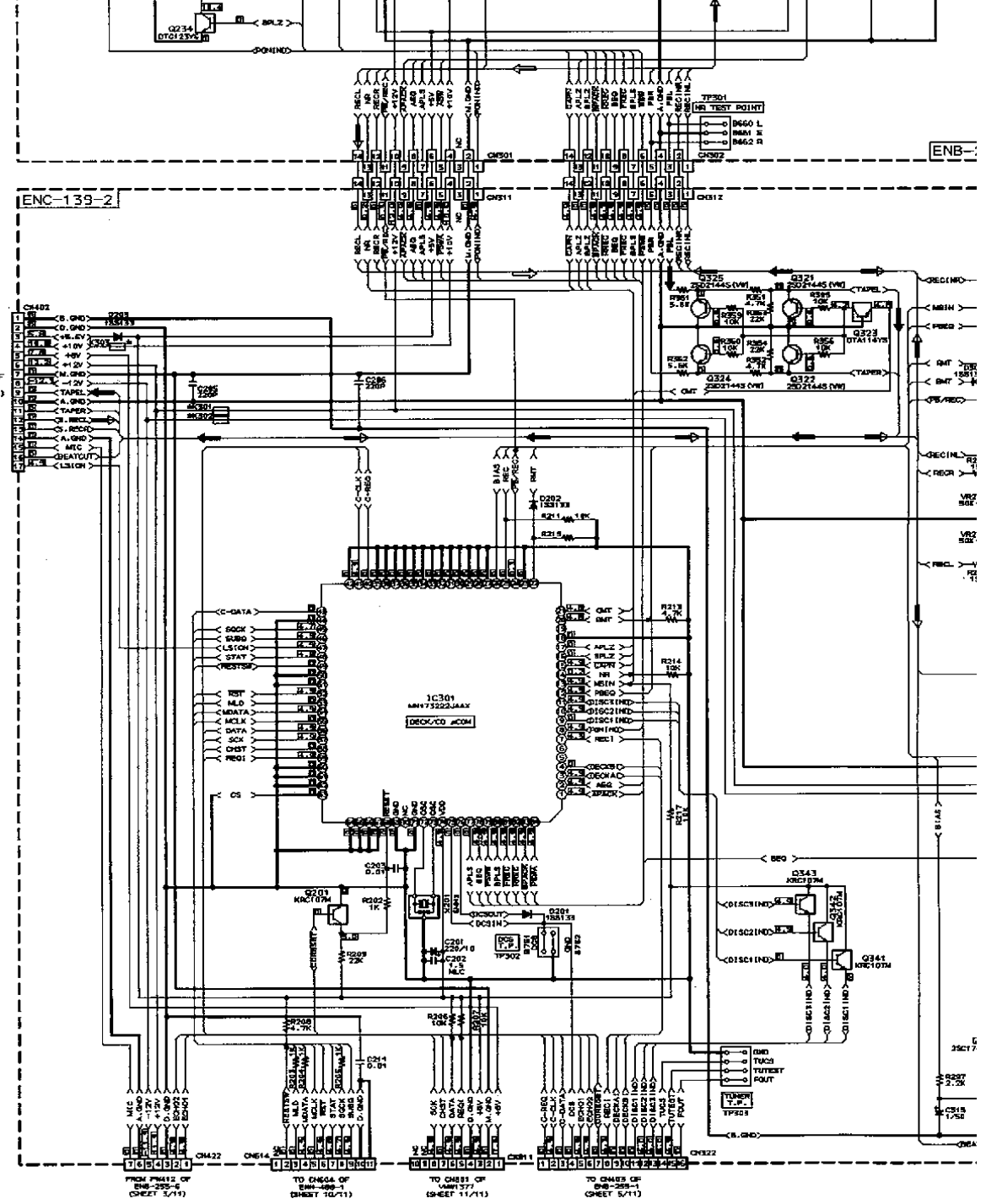


# Tape Deck Mechanisms Control/Deck Amplifier Section





CA-07871		CA-07871		CA-08513	
LA U/L	LA U/L	EP, DCH	J.C	EP, DCH	J.C
C319	NONE	NONE	0.022	NONE	0.022
C337	NONE	NONE	560P	NONE	560P
C328	NONE	NONE	0.022	NONE	0.022
C363	NONE	NONE	1381 F8	NONE	1381 F3
C372	SMITHS-DE3	NONE	NONE	NONE	NONE
J7202	SMITHS-DE4	NONE	NONE	NONE	NONE
C319-1-235	ISBERT	SHORT	EP281 H-007	SHORT	EP281 H-007
C421	SHORT	SHORT	EP281 H-007	SHORT	EP281 H-007
C372	SMITHS-DE3	NONE	EP281 H-007	SHORT	EP281 H-007
C372	NONE	NONE	2831 NUMBER 8	NONE	2831 NUMBER 8
C331	NONE	NONE	NORM G4M	NONE	NORM G4M
C338	NONE	NONE	580	NONE	560
R285, 566	SHORT	SHORT	4.7	SHORT	4.7
			4.7		



TO CH412 OF  
ENC-139-1  
(SHEET 5/11)

FROM PINS 12 OF  
ENC-255-5  
(SHEET 5/11)

TO CH404 OF  
ENC-139-1  
(SHEET 10/11)

TO CH403 OF  
ENC-139-1  
(SHEET 11/11)

TO CH403 OF  
ENC-255-5  
(SHEET 5/11)

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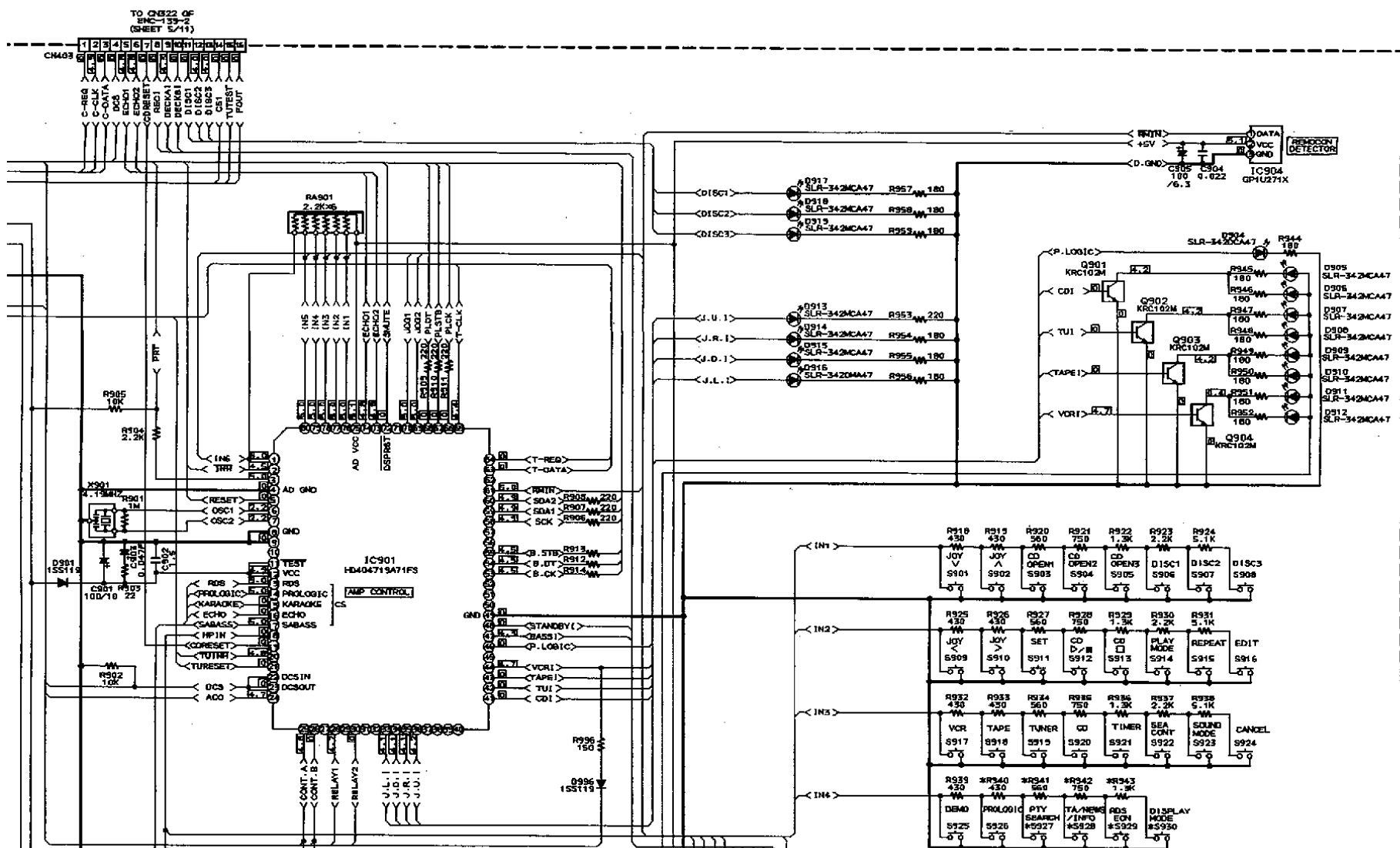


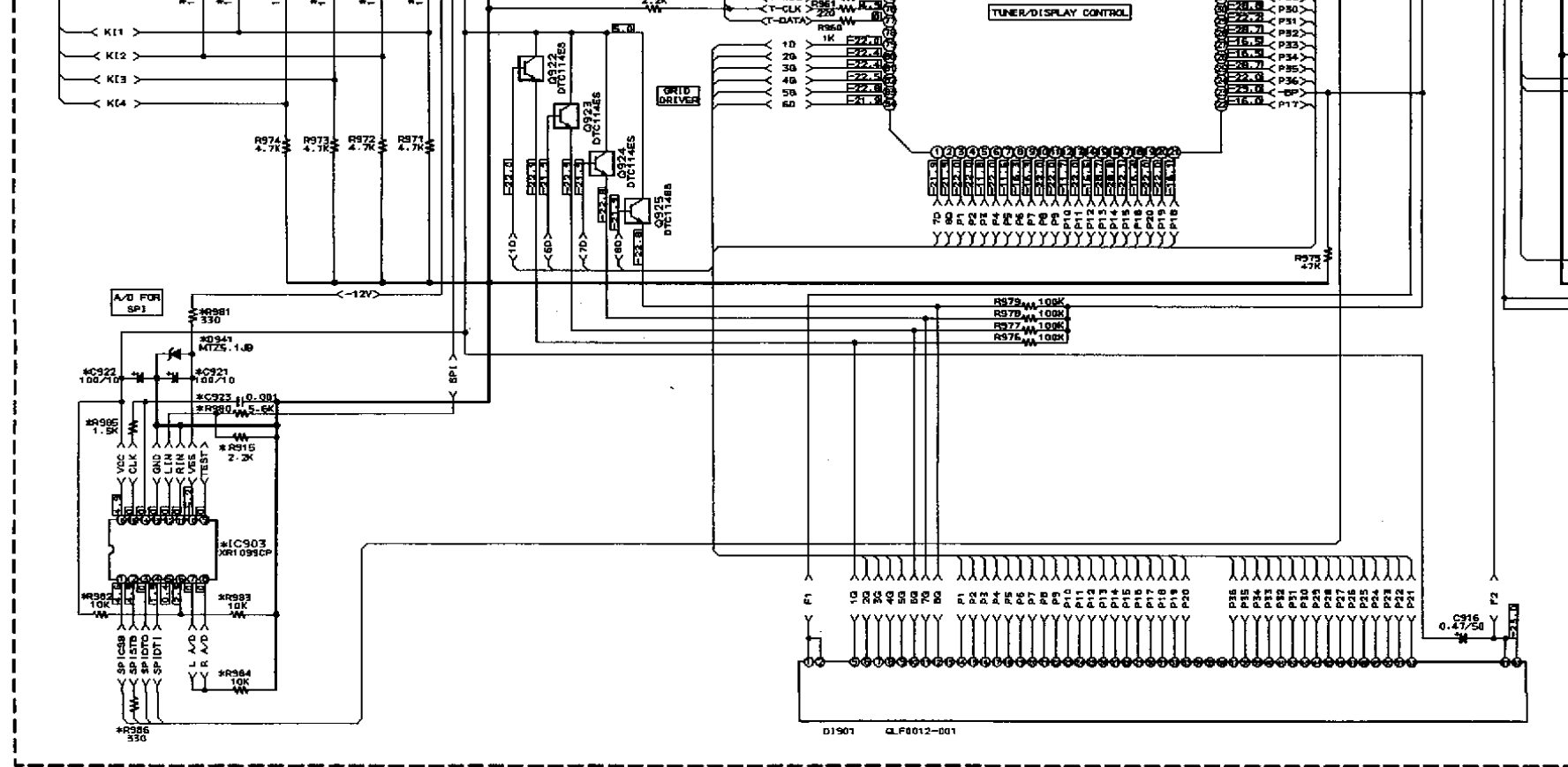
## 6



4





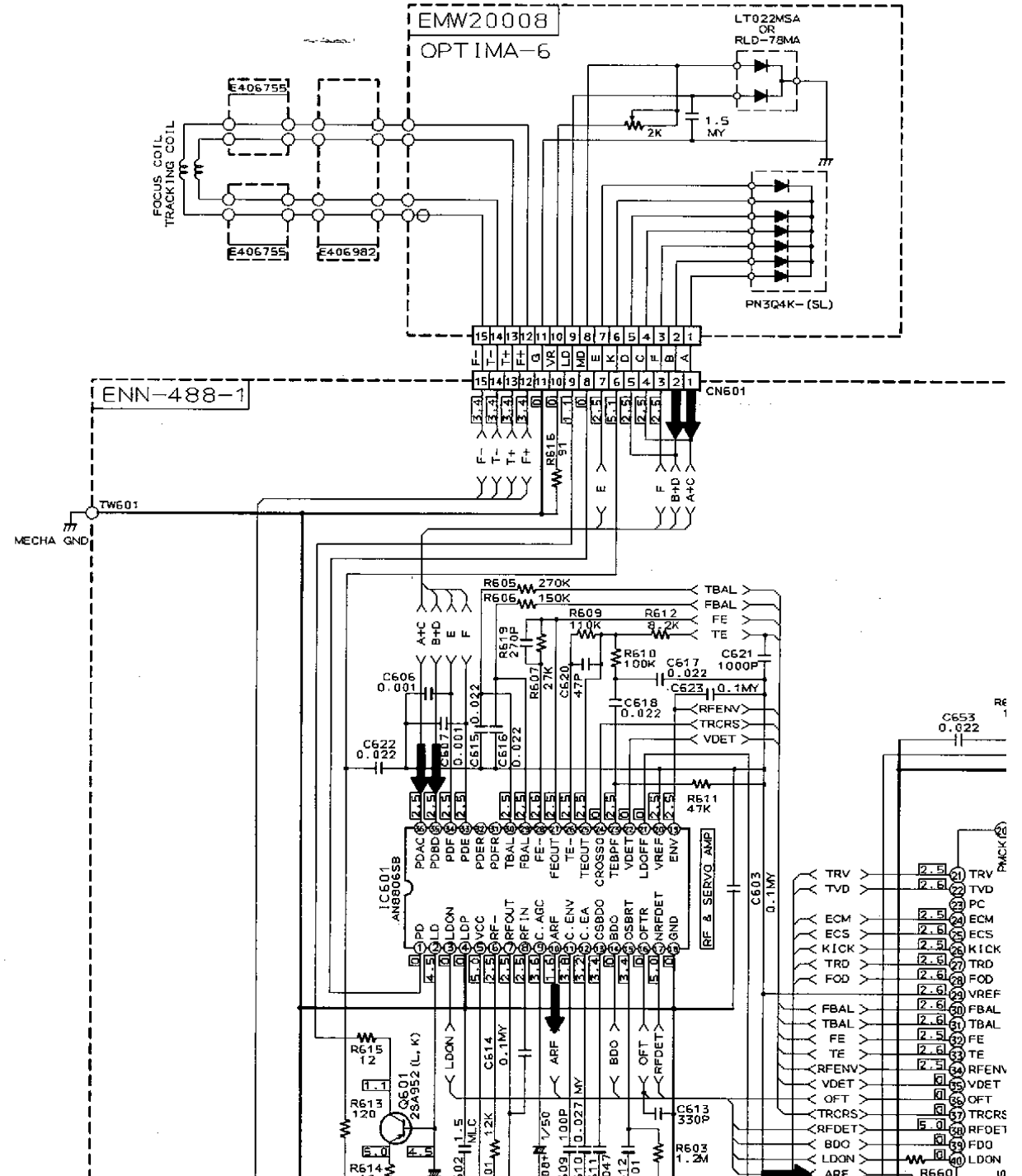


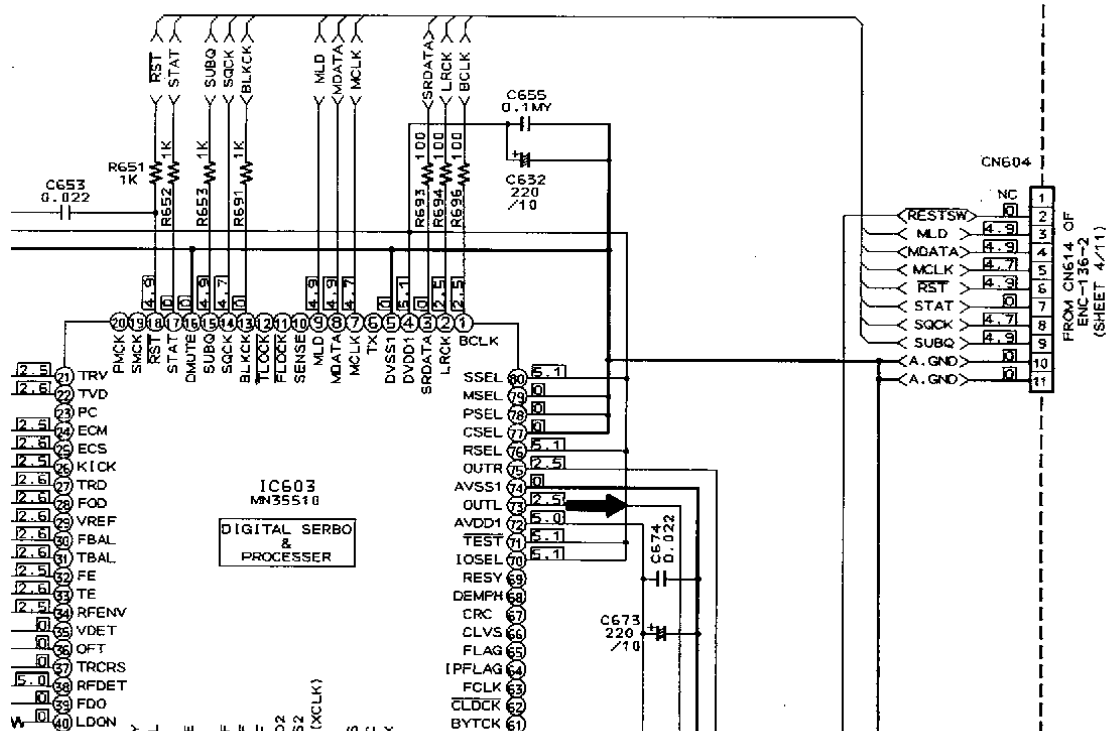
\* MARK LIST

	D761T				D851TR		D761T	
	U, UT, UP, US, UB	A	EF, EN, G, BS	VX	EF, EN, G	A, C		
B401	USED	USED	NONE	NONE	NONE	NONE		
B426	USED	USED	USED	USED	NONE	USED		
B428	NONE	USED	USED	USED	USED	USED		
B429	NONE	USED	USED	USED	USED	USED		
C921-923	USED	NONE	NONE	NONE	NONE	USED		
C9402	NONE	NONE	NONE	NONE	USED	NONE		
D931	USED	NONE	NONE	USED	NONE	NONE		
D932	NONE	NONE	NONE	USED	NONE	USED		
D933	USED	USED	NONE	NONE	NONE	USED		
D935	USED	NONE	NONE	NONE	NONE	USED		
D936	NONE	NONE	NONE	NONE	USED	NONE		
D941	USED	NONE	NONE	NONE	NONE	USED		
IC903	USED	NONE	NONE	NONE	NONE	USED		
R980-986	USED	NONE	NONE	NONE	NONE	USED		
R991	NONE	NONE	NONE	NONE	USED	NONE		
R993	USED	NONE	NONE	NONE	NONE	NONE		
R994	USED	NONE	NONE	NONE	NONE	NONE		
R940-943	NONE	NONE	NONE	NONE	USED	NONE		
S927-930	NONE	NONE	NONE	NONE	USED	NONE		
R915	USED	NONE	NONE	NONE	NONE	USED		
B431, 411	NONE	NONE	NONE	NONE	NONE	USED		



# ■ CD Section





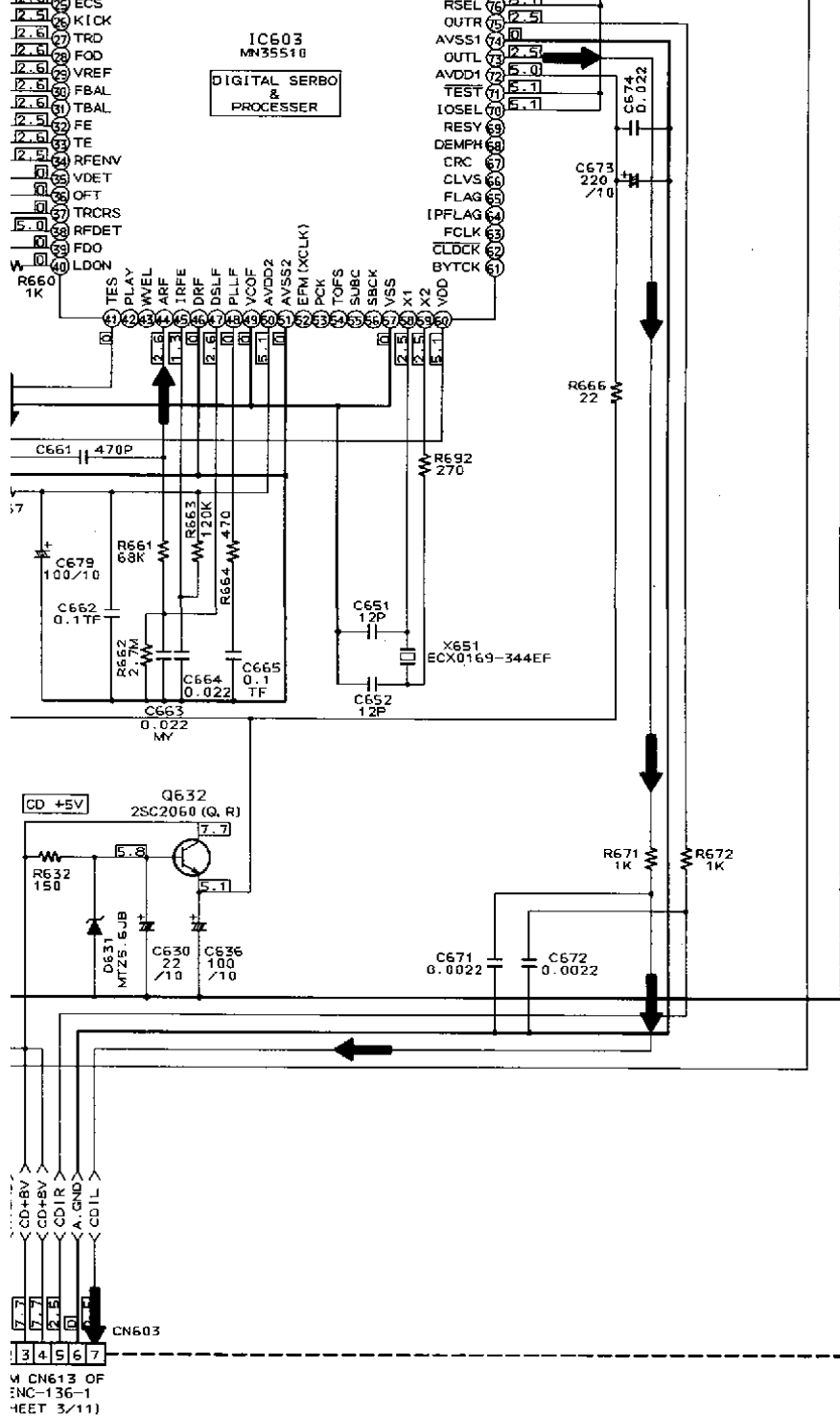
7

6

5

4





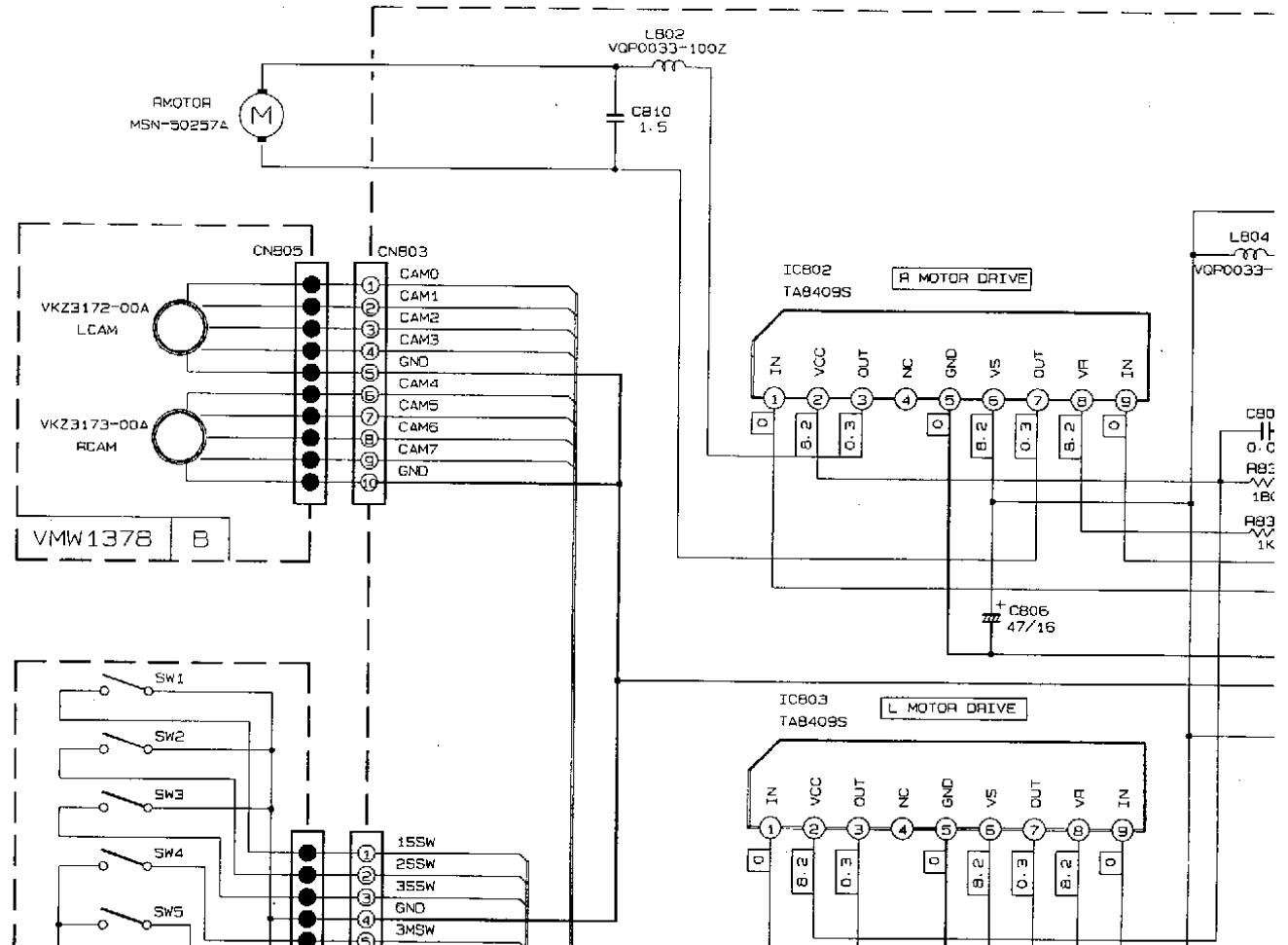
4

3

2

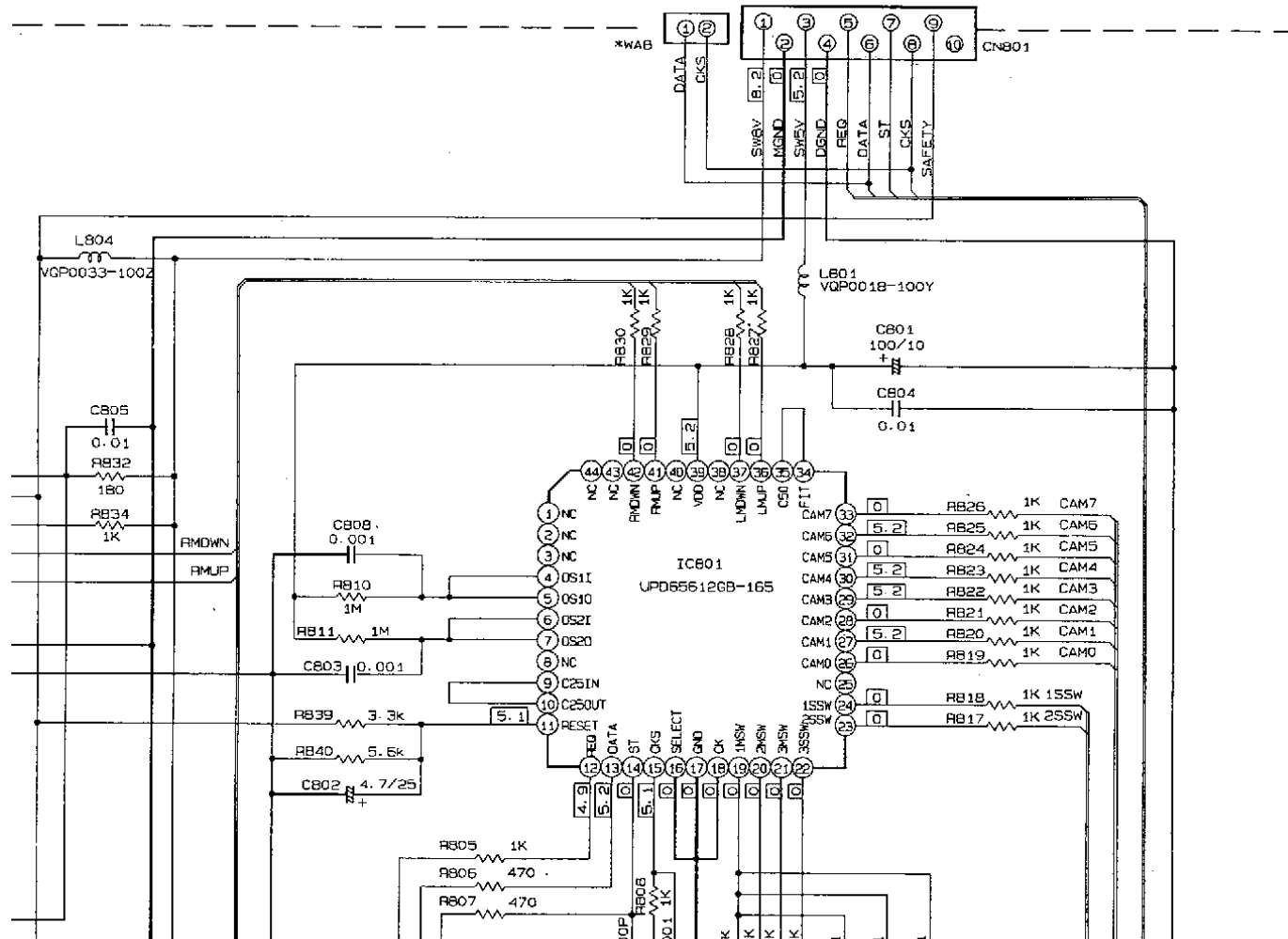
1

## ■ Changer Section





TO CN811 OF  
FMH-005-1  
(SHEET 2/8)



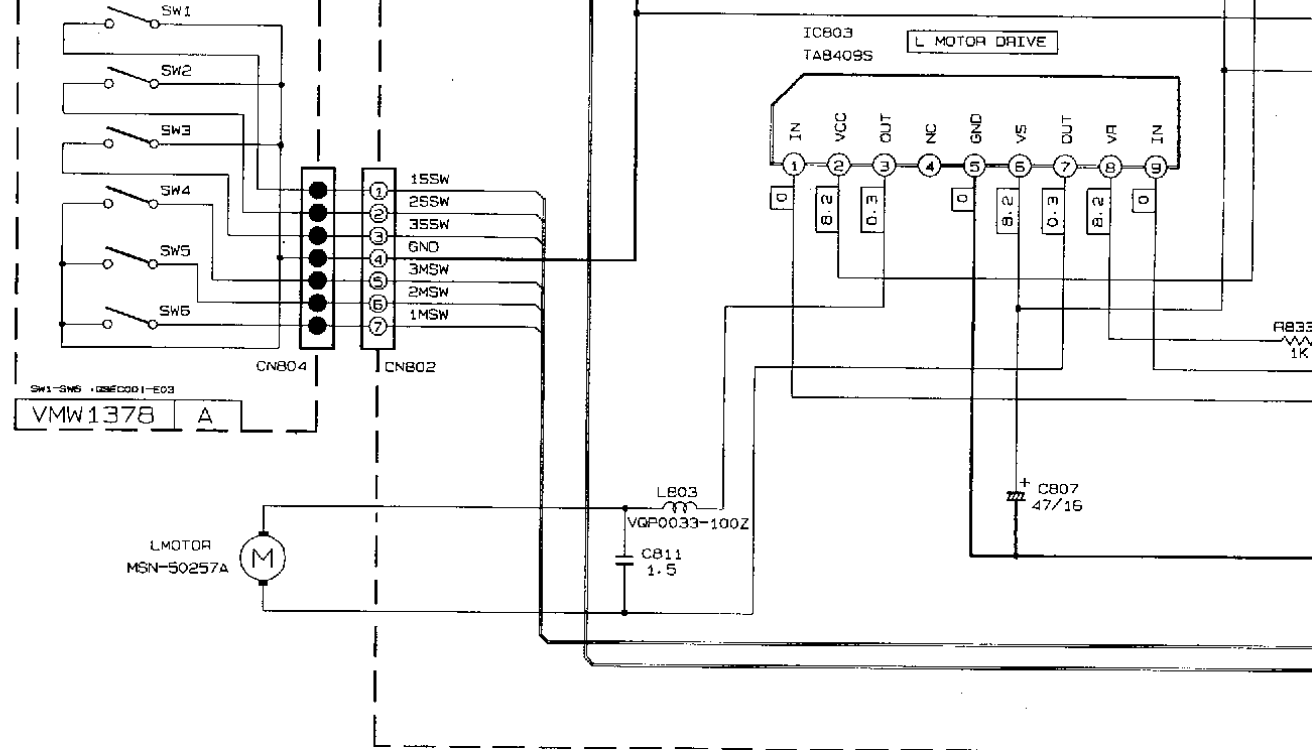
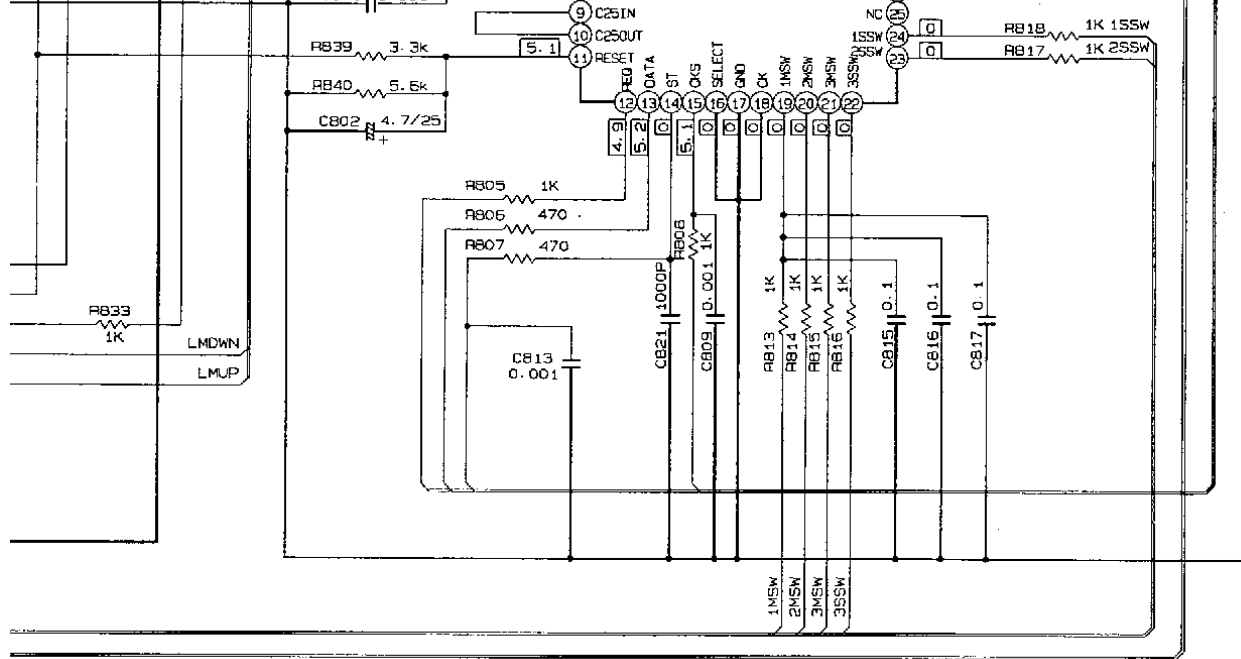


TABLE 1 CAM PATTERN LIST

CAM NO	LCAM				ON	PCAM				POSITION
	0	1	2	3		4	5	6	7	
MAIN TRAY1	0	1	1	1	0	1	1	1	0	EMERGENCY
SUB TRAY1	0	0	1	1	0	1	1	0	0	TRAY1 STANDBY
CAMR 1	0	1	0	1	0	1	0	1	0	TRAY1 CHECKING
MAIN TRAY2	1	0	0	1	0	1	0	0	1	TRAY2 STANDBY
SUB TRAY2	1	1	1	0	0	0	1	1	1	TRAY2 CHECKING
CAMR 2	1	0	1	0	0	0	1	0	1	TRAY3 STANDBY
MAIN TRAY3	1	1	0	0	0	0	0	1	1	TRAY3 CHECKING
SUB TRAY3	1	0	0	0	0					
OFF	1	1	1	1	0	1	1	1	1	OFF

0=0V  
1=5V



VMW1377

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J