

# AV RECEIVER/AV AMPLIFIER

## RX-V459/HTR-5940

### SERVICE MANUAL

#### IMPORTANT NOTICE

This manual has been provided for the use of authorized YAMAHA Retailers and their service personnel.

It has been assumed that basic service procedures inherent to the industry, and more specifically YAMAHA Products, are already known and understood by the users, and have therefore not been restated.

**WARNING:** Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components, and failure of the product to perform as specified. For these reasons, we advise all YAMAHA product owners that any service required should be performed by an authorized YAMAHA Retailer or the appointed service representative.

**IMPORTANT:** The presentation or sale of this manual to any individual or firm does not constitute authorization, certification or recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of YAMAHA are continually striving to improve YAMAHA products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

**WARNING:** Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

**IMPORTANT:** Turn the unit OFF during disassembly and part replacement. Recheck all work before you apply power to the unit.

## CONTENTS

自己診断機能(ダイアグ) .....

PIN CONNECTION DIAGRAM .....



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# YAMAHA

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'06.02

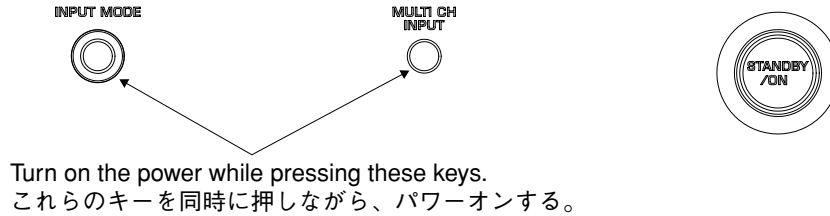
## • Starting DIAG

Press the "STANDBY/ON" key while simultaneously pressing those two keys of the main unit as indicated in the figure below.

## ● ダイアグの起動

本体の下図に示すキーを同時に押しながら "STANDBY/ON" キーを押すと、ダイアグが起動します。

Keys of main unit / 本体キー



Turn on the power while pressing these keys.  
これらのキーを同時に押しながら、パワーオンする。

## • Starting DIAG in the protection cancel mode

If the protection function works and causes hindrance to trouble diagnosis, cancel the protection function as described below, and it will be possible to enter the DIAG mode. (The protection functions other than the excess current detect function will be disabled.)

Press the "STANDBY/ON" key while simultaneously pressing those two keys indicated in the figure above. At this time, keep pressing those two keys for 3 seconds or longer.

In this mode, the "SLEEP" segment of the FL display of the main unit flashes to indicate that the mode is DIAG mode with the protection functions disabled.

## ● プロテクション解除モードでの起動

プロテクションが動作することにより、故障箇所の診断に支障をきたすような場合は、次の方法によりプロテクションを解除した状態でダイアグモードに入ることができます。(過電流検出以外のプロテクション動作を解除する)

上図のキーを同時に押しながら "STANDBY/ON" キーを押します。このとき、上図のキーを3秒以上押し続けてください。このモードでは本体FLの "SLEEP" セグメントが点滅し、プロテクションを解除した状態でのダイアグモードであることを知らせます。

## CAUTION!

Using this product with the protection function disabled may cause damage to itself. Use special care for this point when using this mode.

### 注意!

プロテクションを解除した状態でのダイアグモードは、危険な状態でもプロテクションが作動しないため、動作させると、機器を破壊することがあります。このモードを使用する場合は十分注意してください。

## • Canceling DIAG

① Before canceling DIAG, execute setting for FACTORY PRESET of DIAG menu No.9 (Memory initialization inhibited or Memory initialized).

\* In order to keep the user memory stored, be sure to select PRESET INHIBITED (Memory initialization inhibited).

② Turn off the power by pressing the "STANDBY/ON" key of the main unit.

## ● ダイアグの解除

① ダイアグを解除する前に、ダイアグメニューNo.9のFACTORY PRESET (メモリーの初期化禁止/またはメモリーの初期化)の設定をします。

※ ユーザーメモリーを保持したい場合は、必ずPRESET INHIBITED(メモリー初期化禁止)を選択してください。

② 本体の "STANDBY/ON" キーを押し、パワーオフにします。

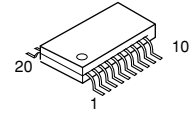
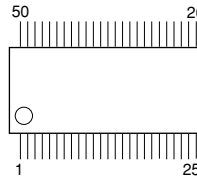
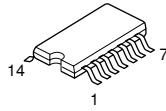
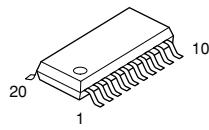
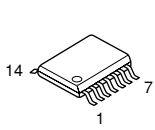
SN74LV157APWR  
SN74LVU04APWR

SN74LV245APWR TRAN

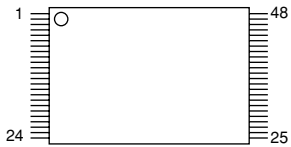
TC4013BP FF  
TC74VHCU04FT INVER

W9816G6CH-7 SDRAM

YAC520-EE2



S29AL004D70TF1020



## • Diodes

1N4002S  
1SS133,176  
1SS270A  
1SS355  
1SS380  
1T2  
MTZJ13A 13V  
MTZJ15A 15V  
MTZJ15B 15V  
MTZJ2.4B 2.4V  
MTZJ27B 27V  
MTZJ30A 30V  
MTZJ5.1C 5.1V

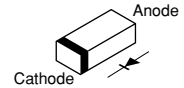
RB441Q-40 T-77  
RB441Q-40 T-77

D2SBA20 1.5A 200V  
D5SB20 5A 200V

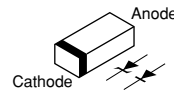
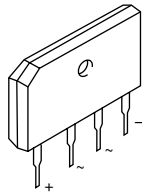
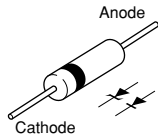
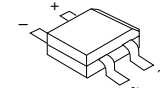
MA8030-L 2.9V  
MA8051-M 5.1V  
MA8056-M 5.6V  
MA8068-L 6.6V  
MA8068-M 6.8V  
MA8075-H 7.7V  
MA8091-M 9.1V  
MA8100-M 10V

RB500V-40  
RB501V-40  
UDZ 3.6BTE-17 3.6V  
UDZ5.1B 5.1V

MA8082-H 8.5V



S1NB20 1A 200V  
S1NB60 1.0A 600V



## • Transistors

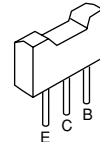
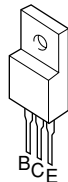
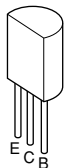
2SA1015 Y  
2SA933S Q,R  
2SA949 O,Y  
2SC1740S QRS  
2SC1815 Y  
2SC1890A D,E  
2SC2229 O,Y  
2SC2240 GR,BL

2SC3326 A,B  
2SC3837K T146 N,P  
2SC3906K T146 R,S

2SB1257  
2SB1274 Q,R,S

2SA1695 O,P,Y  
2SC4468 O,P,Y  
2SD1915F S,T  
2SD2014  
2SK2158-T2B-A  
2SK246 Y  
2SK3288  
2SK3850

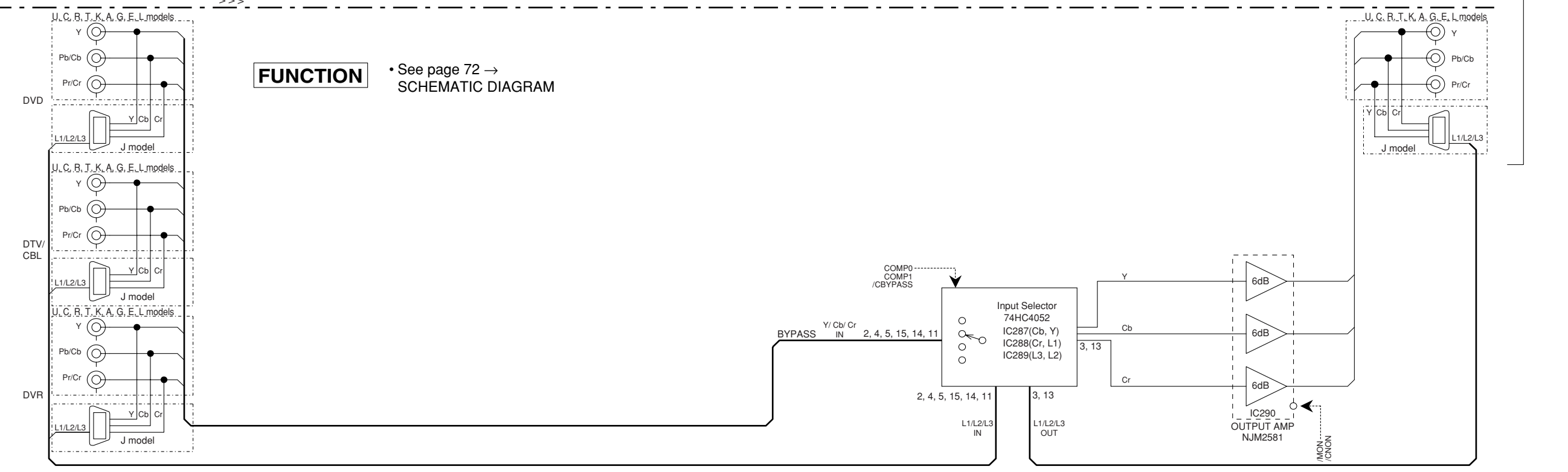
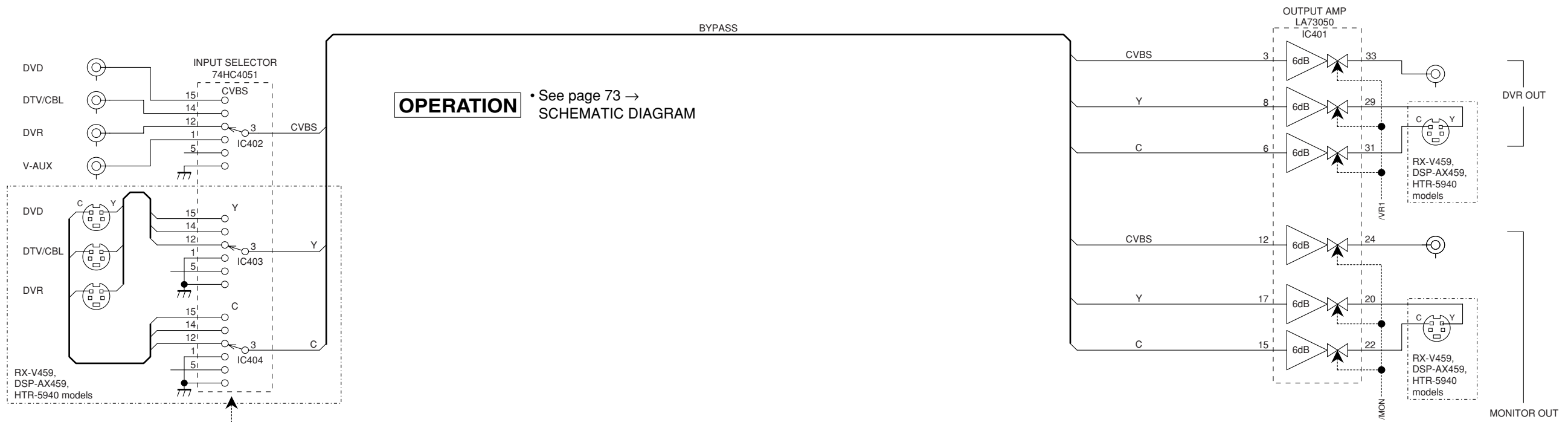
2SA1708 S,T  
2SA1770 S,T  
2SC4488 S,T  
2SD4614 S,T  
2SD1938F S,T



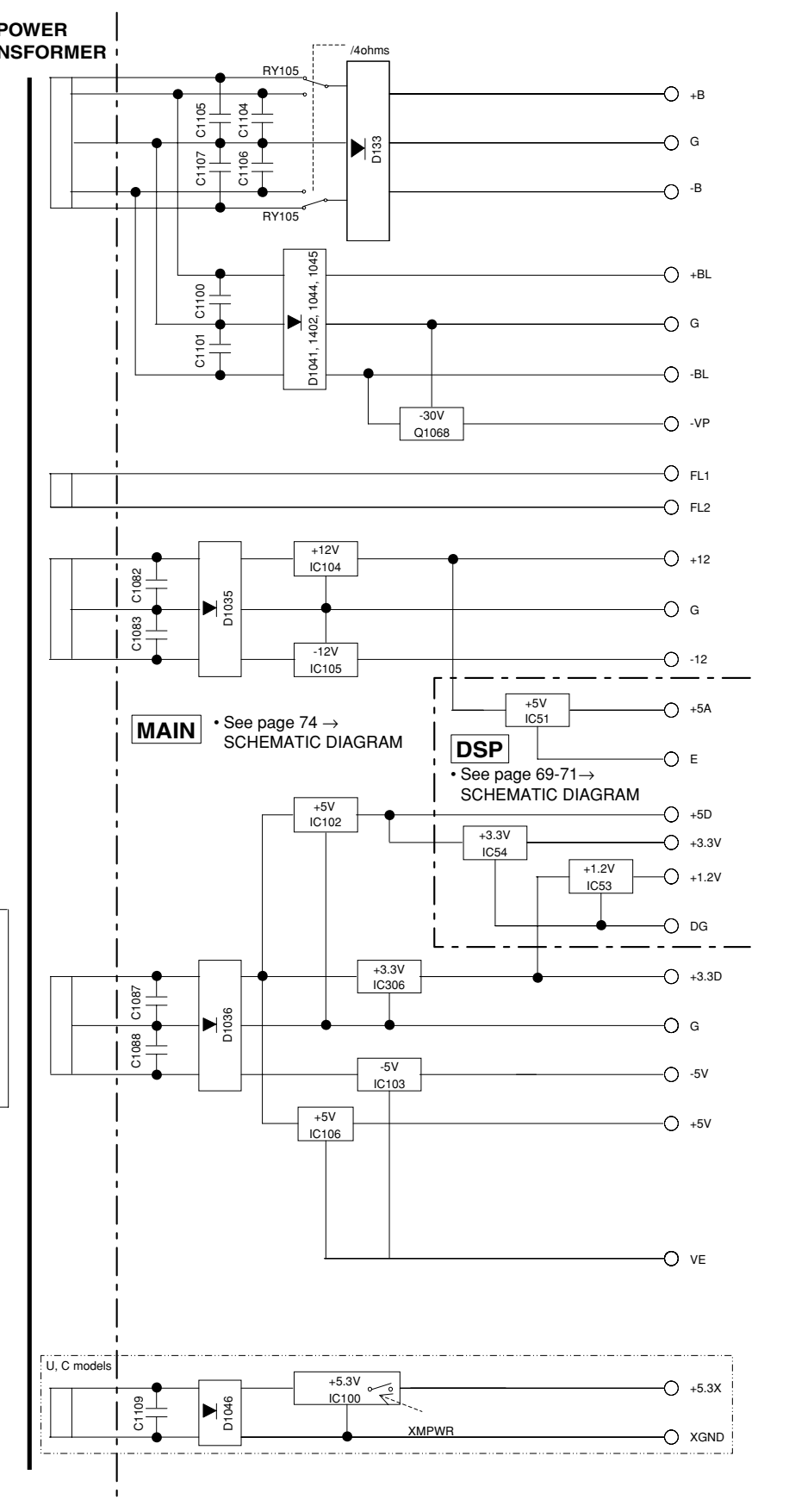
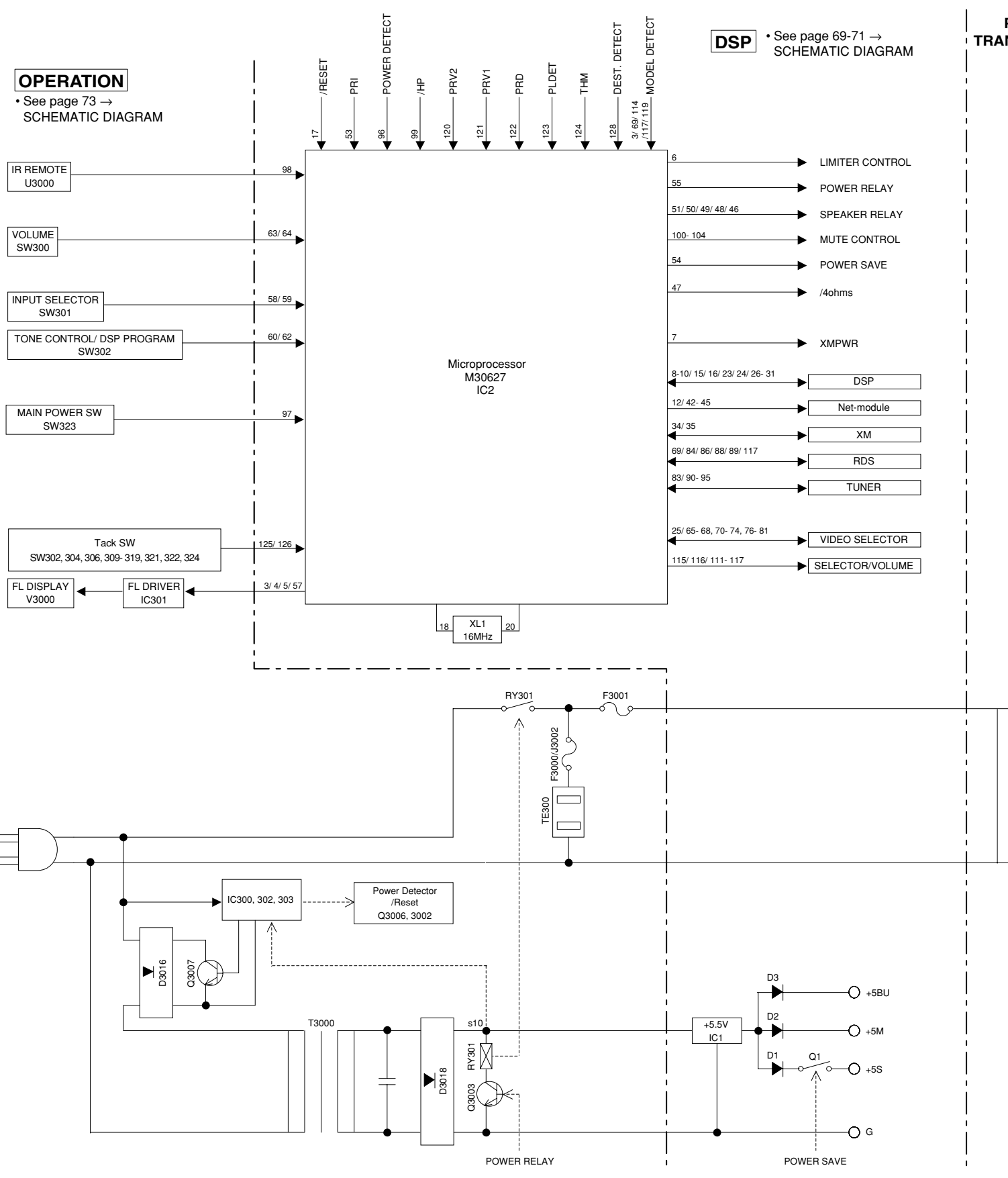
2SA1037K Q,R,S  
2SC2412K Q,R,S  
DTA114ES  
DTC114EKA  
DTC114ES  
DTC124EKA  
DTC144ES



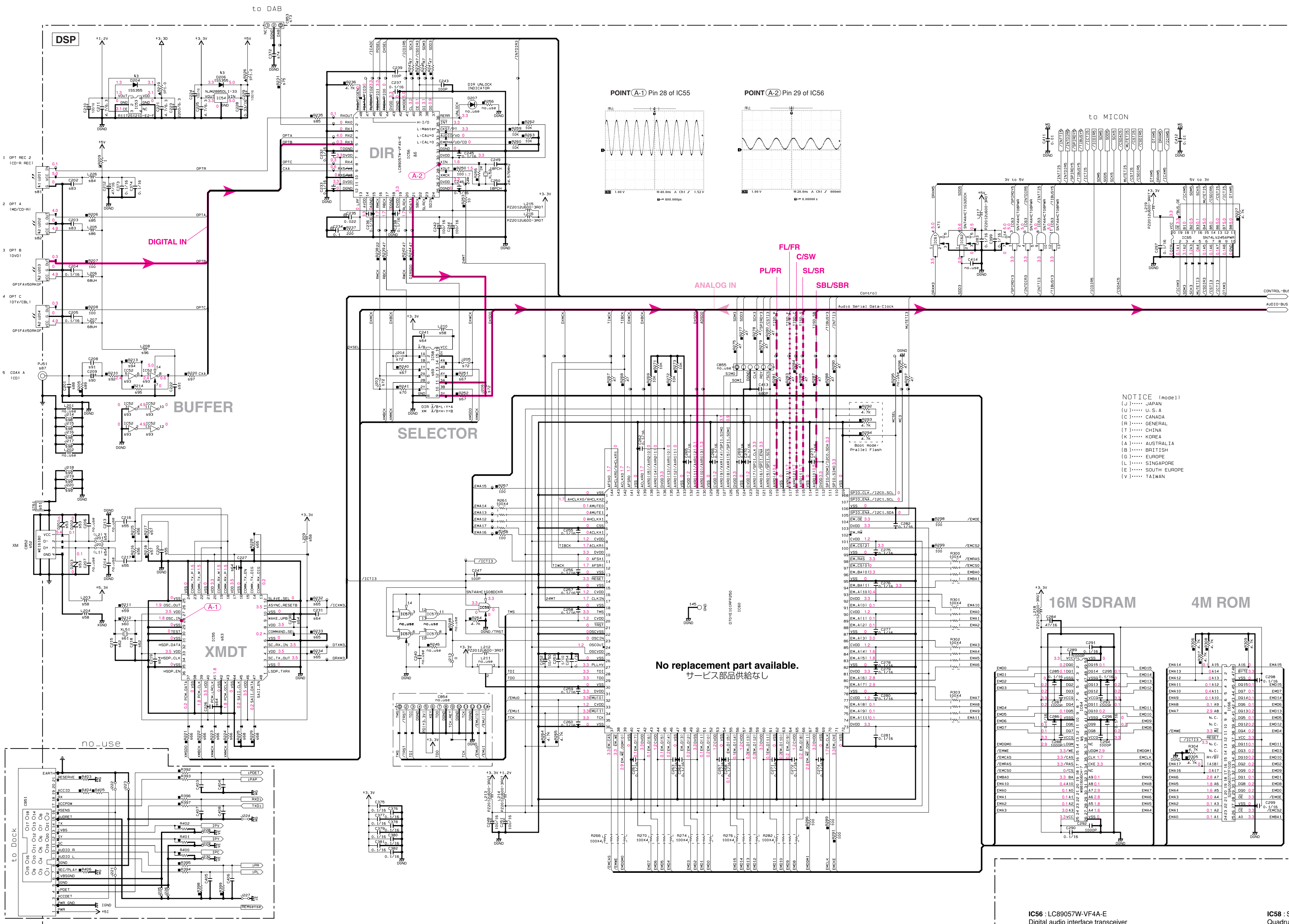
# VIDEO BLOCK DIAGRAM



# CONTROL/POWER BLOCK DIAGRAM

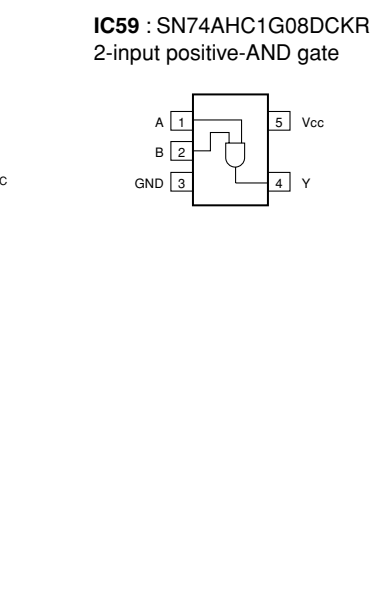
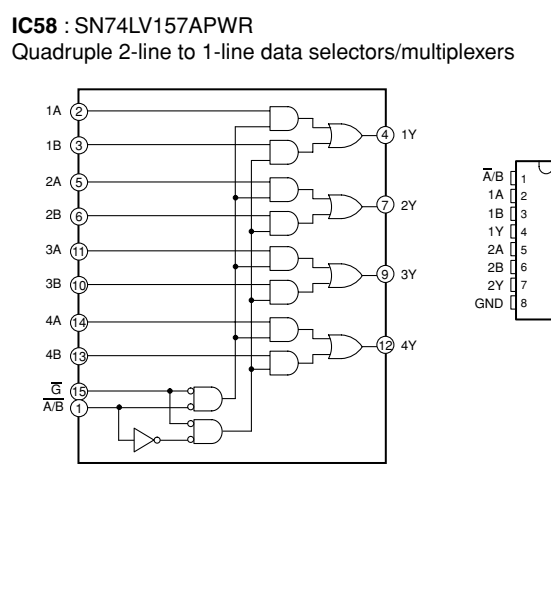
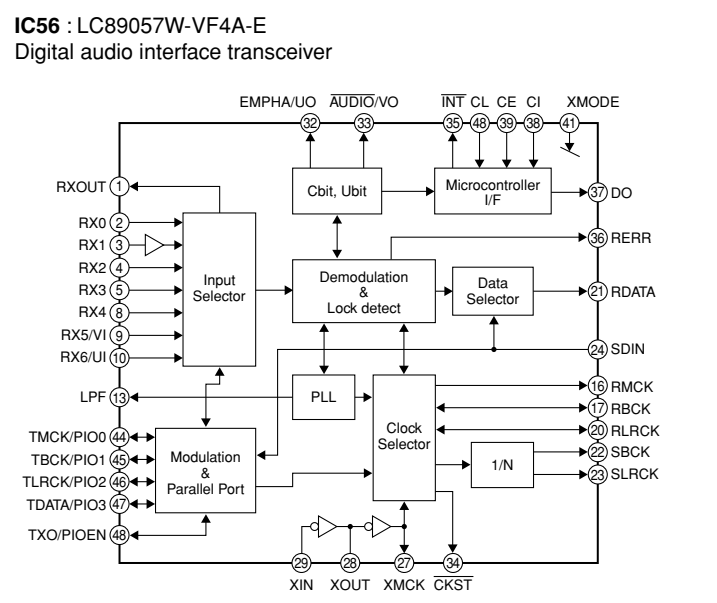
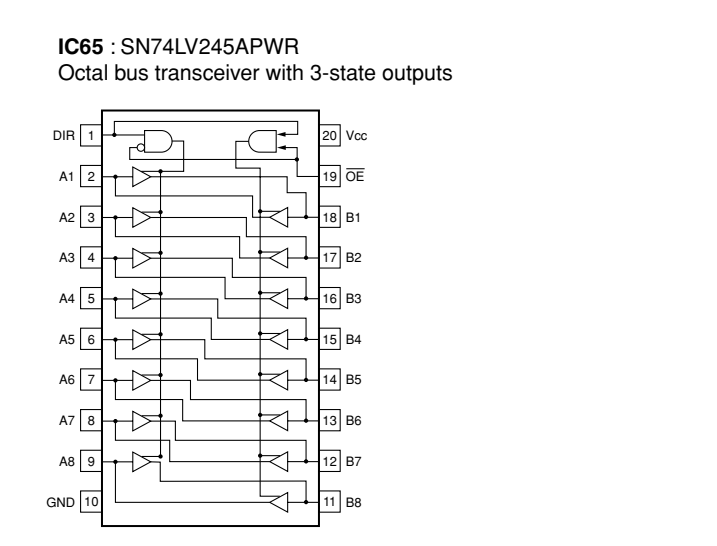
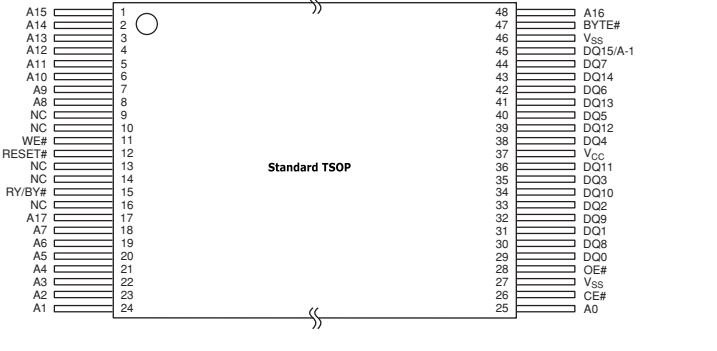
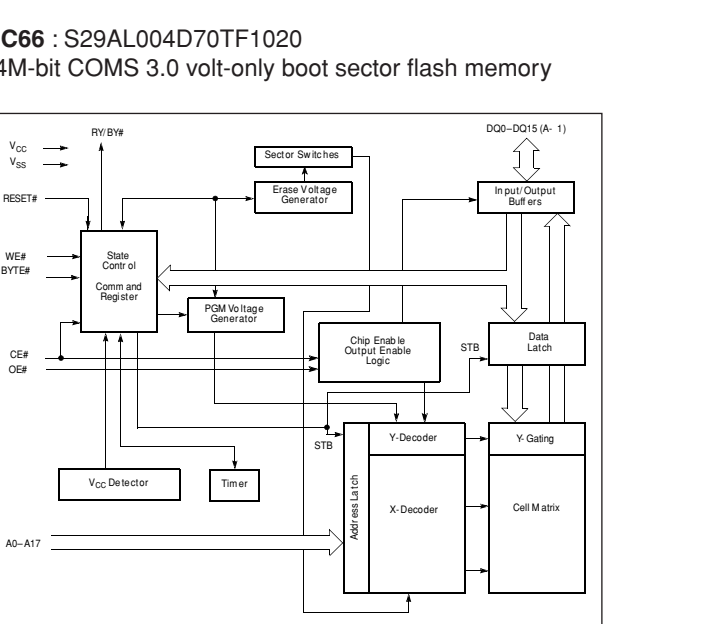
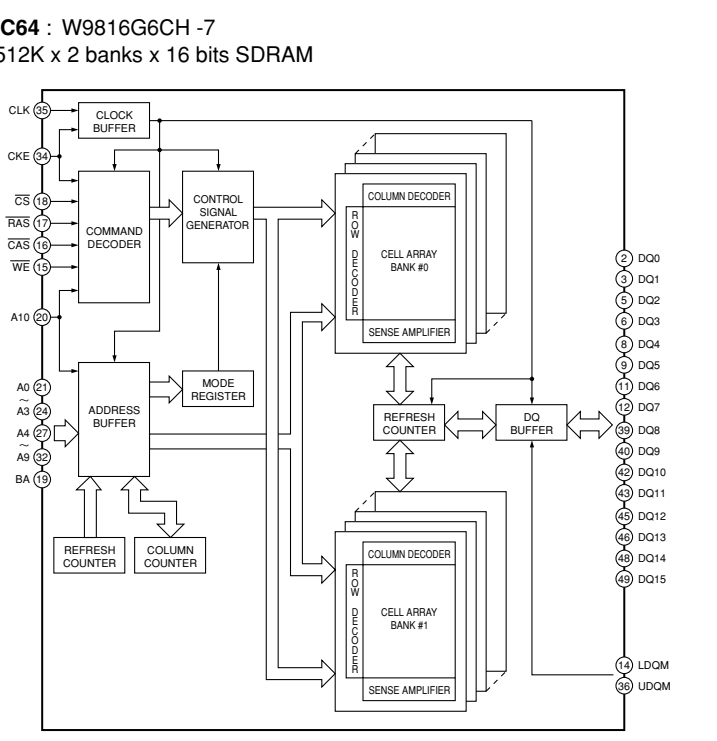
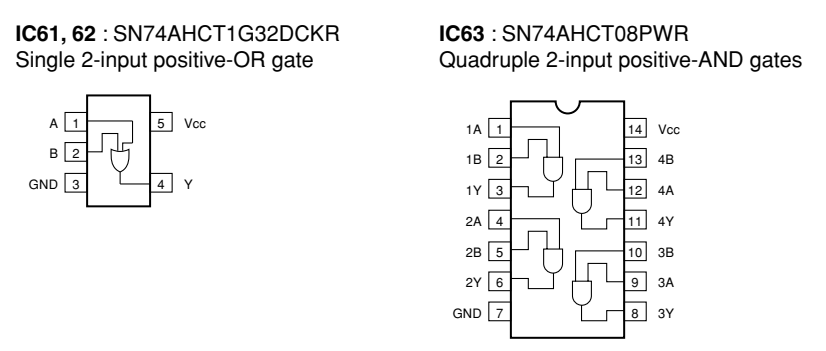




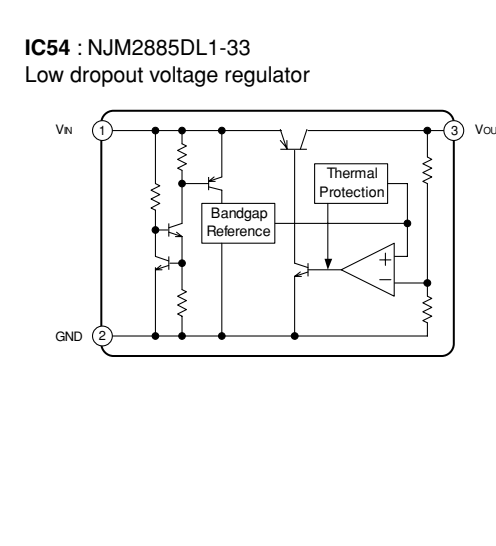
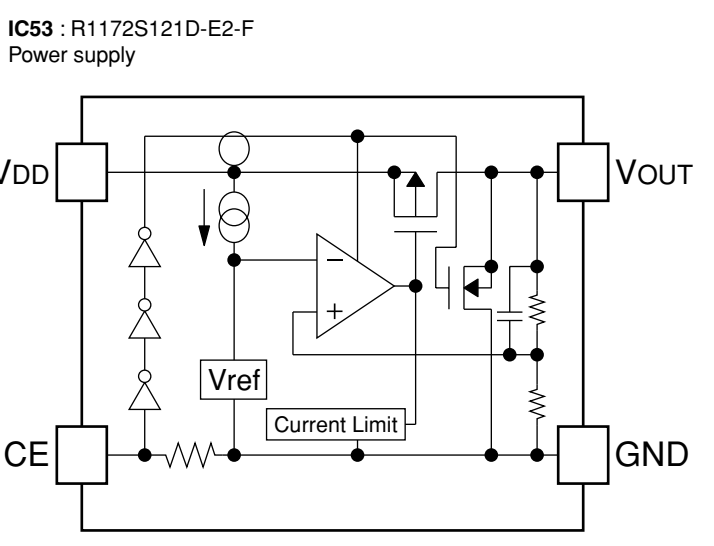


No replacement part available.  
サービス部品供給なし

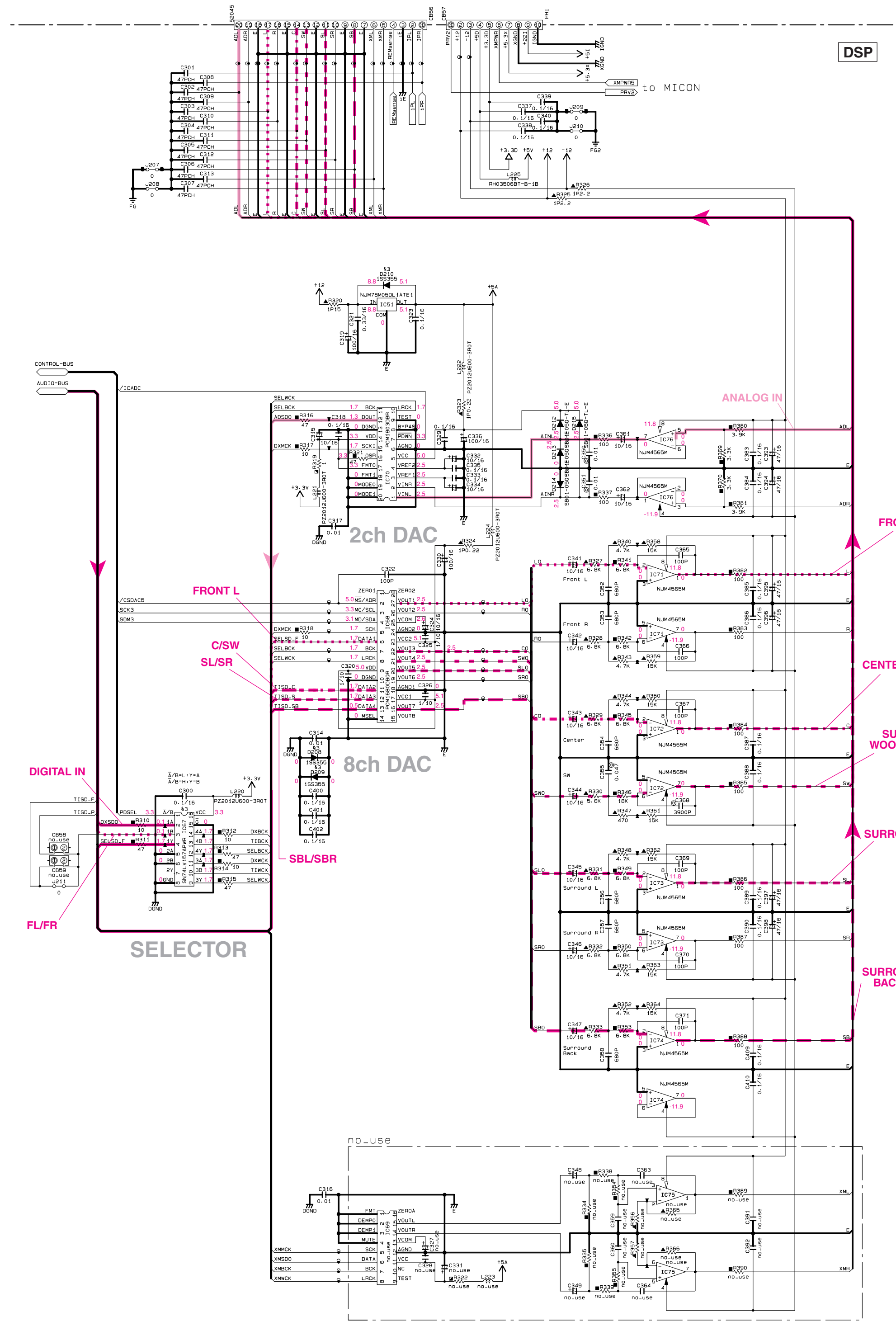
NOTICE (mode1)  
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 (U)..... U.S.A  
 (C)..... CANADA  
 (E)..... GENERAL  
 (Y)..... CHINA  
 (K)..... KOREA  
 (A)..... AUSTRALIA  
 (B)..... BRITISH  
 (G)..... EUROPE  
 (L)..... SINGAPORE  
 (E)..... SOUTH EUROPE  
 (V)..... TAIWAN



★ All voltages are measured with a 10M $\Omega$ /V DC electronic volt meter.  
 ★ Components having special characteristics are marked with a triangle and must be replaced with parts having specifications equal to those originally installed.  
 ★ Schematic diagram is subject to change without notice.  
 ● 電圧は、内部抵抗10M $\Omega$ の電圧計で測定したものです。  
 ● 1印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。  
 ● 本回路図は標準回路図です。改良のため予告なく変更することがございます。







CAPACITOR		RESISTOR	
REMARKS	PARTS NAME	REMARKS	PARTS NAME
⊗	ELECTROLYTIC CAPACITOR	⊗	CARBON FILM RESISTOR (P=5)
⊙	TANTALUM CAPACITOR	⊙	CARBON FILM RESISTOR (P=10)
⊚	CERAMIC CAPACITOR	⊚	METAL OXIDE FILM RESISTOR
⊛	CERAMIC TUBULAR CAPACITOR	⊛	METAL FILM RESISTOR
⊜	POLYESTER FILM CAPACITOR	⊜	METAL PLATE RESISTOR
⊝	POLYSTYRENE FILM CAPACITOR	⊝	FINE PITCH CARBON FILM RESISTOR
⊞	MICA CAPACITOR	⊞	CEMENT MOLDED RESISTOR
⊟	POLYPROPYLENE FILM CAPACITOR	⊟	SEMI VARIABLE RESISTOR
⊠	POLYBUTYLENE FILM CAPACITOR	⊠	CHIP RESISTOR
⊡	SEMICONDUCTIVE CERAMIC CAPACITOR		
⊢	POLYIMIDE SULFIDE FILM CAPACITOR		

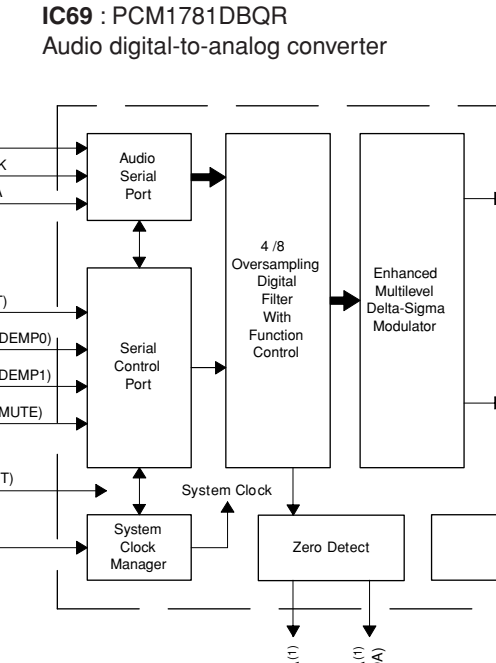
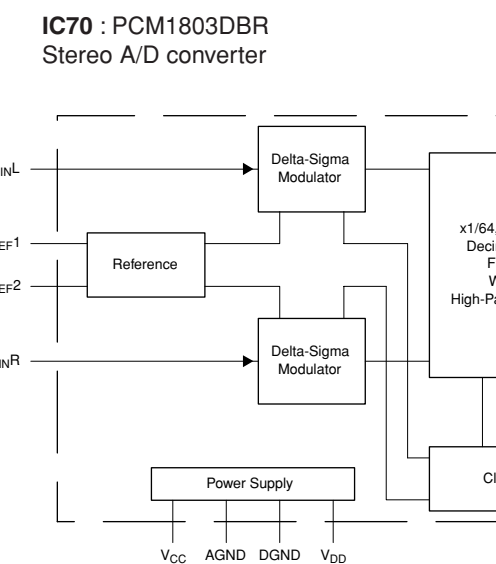
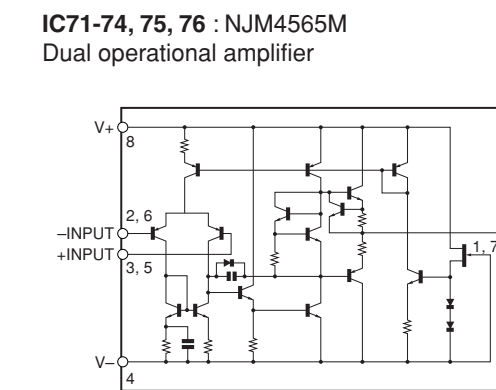
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 (R)..... GENERAL  
 (T)..... CHINA  
 (K)..... KOREA  
 (A)..... AUSTRALIA  
 (B)..... BRITISH  
 (G)..... EUROPE  
 (L)..... SINGAPORE  
 (E)..... SOUTH EUROPE  
 (V)..... TAIWAN

Destination Part List

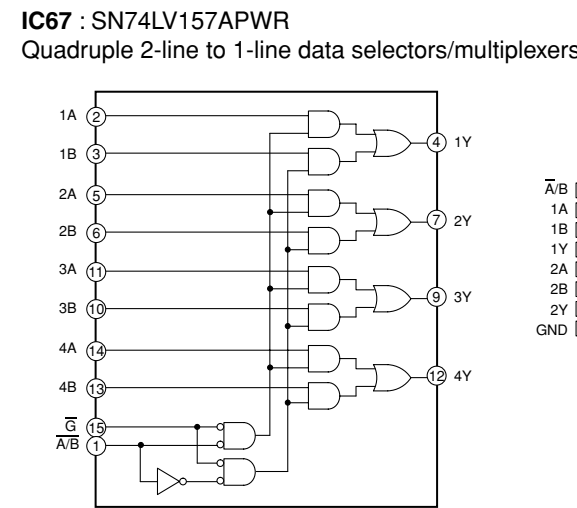
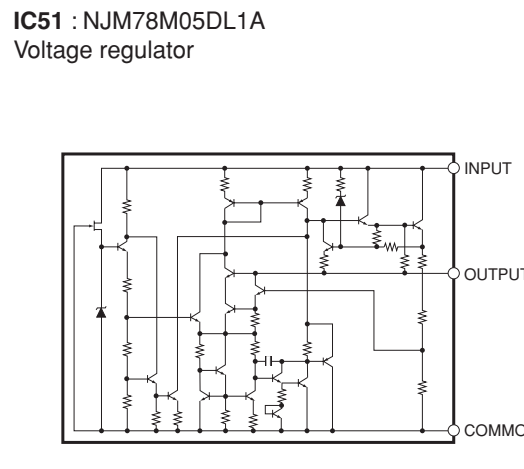
Part No.	LOC	QTY	U.C.	RES	R	T	X	Z	CC	L
11	R01	10	RD35410	10K						
12	R100	X	RD35512	1.2K						
13	R11	100	RD35810	100K						
14	R13	X	RD35715	15K						
15	R08	X	RD35715	15K						
16	R04	X	RD35810	100K						
17	R03	X	RD35810	100K						
18	R02	X	RD35810	100K						
19	R01	X	RD35810	100K						
20	R01	X	RD35810	100K						
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95	R01	X	RD35810	100K						
96	R01	X	RD35810	100K						
97	R01	X	RD35810	100K						
98	R01	X	RD35810	100K						
99	R01	X	RD35810	100K						
100	R01	X	RD35810	100K						

Interchangeable Parts at Manufacture-Stage

Max	Reference Parts Number	Part's Name
41	U001	GR14V50R0P 10Kx171F1
42	U002-204	GR14V50R0P 10Kx171F1
43	D1-2-6-10-204-206	155305 MA111 K05160-RTU/P
44	Q2	DT144EK KRC144-RTU/P
45	IC64	NR8166GH-7 IS42516100C1-71LR M2L16161-71G
46	IC66	LC8870VFAAE LC8870VFAAE



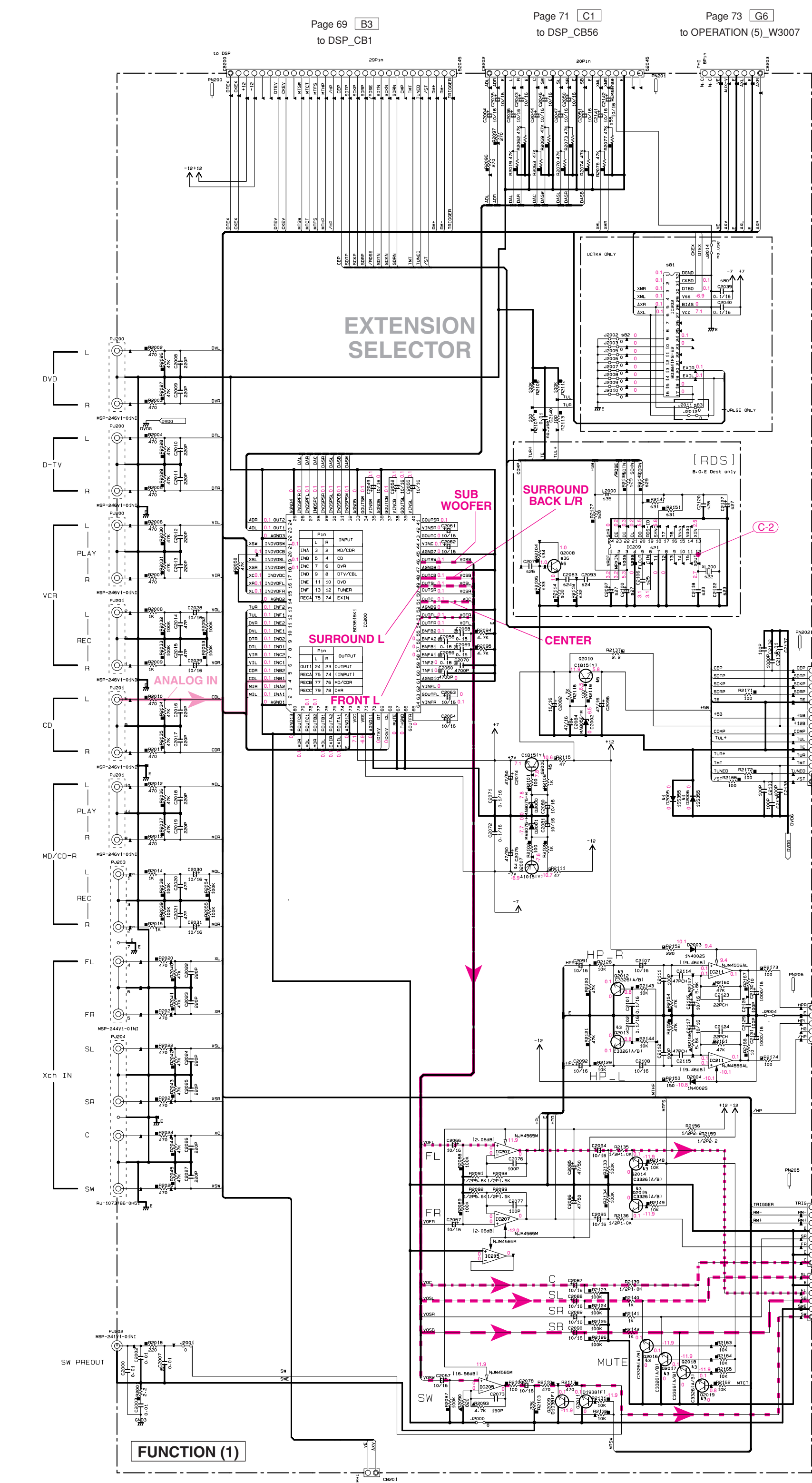
(1) Open-drain output of the PCM1782  
NOTE: Signal names in parentheses ( ) are for the PCM1781.



\* All voltages are measured with a 10MΩ/V DC electronic volt meter.  
 \* Components having special characteristics are marked ! and must be replaced with parts having specifications after those originally installed.  
 \* Schematic diagram is subject to change without notice.  
 ● 電圧は、内部抵抗10MΩの電圧計で測定したものです。  
 ● !印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。  
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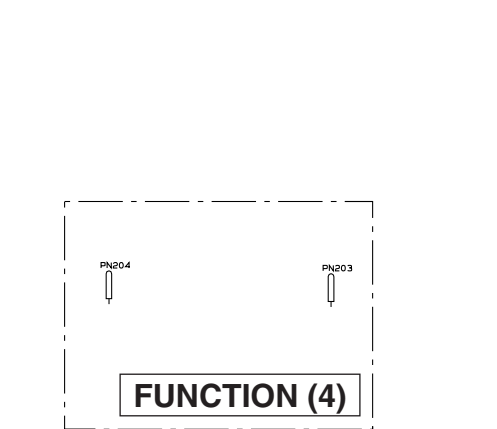
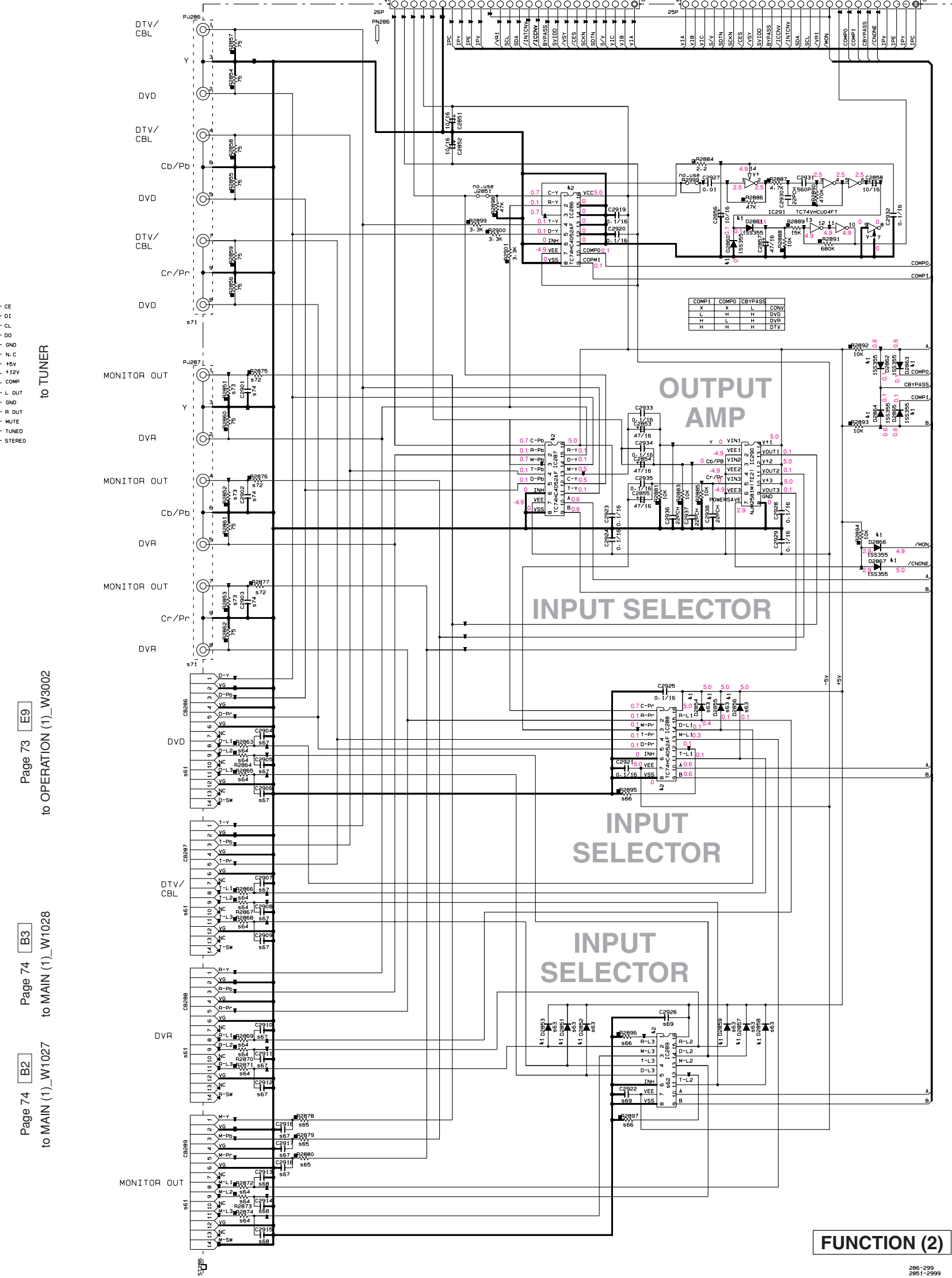
FUNCTION



Interchangeable Parts List (Manufacturer's Code)											
Part No.	LOC	Part Name	QTY	Alt. Part No.	QTY	Alt. Part No.	QTY	Alt. Part No.	QTY	Alt. Part No.	QTY
41	IC200	BD3816K1	1	BD3816K1	1	BD3816K1	1	BD3816K1	1	BD3816K1	1
42	IC202	BD3841FS	1	BD3841FS	1	BD3841FS	1	BD3841FS	1	BD3841FS	1
43	IC209	LC72722PM	1	LC72722PM	1	LC72722PM	1	LC72722PM	1	LC72722PM	1
44	IC291	TC74VHC04FT	1	TC74VHC04FT	1	TC74VHC04FT	1	TC74VHC04FT	1	TC74VHC04FT	1
45	IC205	NJM4565M	1	NJM4565M	1	NJM4565M	1	NJM4565M	1	NJM4565M	1
46	IC290	NJM2581M	1	NJM2581M	1	NJM2581M	1	NJM2581M	1	NJM2581M	1
47	IC286,288,289	TC74HC4052AF	1	TC74HC4052AF	1	TC74HC4052AF	1	TC74HC4052AF	1	TC74HC4052AF	1
48	IC211	NJM4556AL	1	NJM4556AL	1	NJM4556AL	1	NJM4556AL	1	NJM4556AL	1

Interchangeable Parts List (HSC Part)											
Part No.	LOC	Part Name	QTY	Alt. Part No.	QTY	Alt. Part No.	QTY	Alt. Part No.	QTY	Alt. Part No.	QTY
49	IC200	BD3816K1	1	BD3816K1	1	BD3816K1	1	BD3816K1	1	BD3816K1	1
50	IC202	BD3841FS	1	BD3841FS	1	BD3841FS	1	BD3841FS	1	BD3841FS	1
51	IC209	LC72722PM	1	LC72722PM	1	LC72722PM	1	LC72722PM	1	LC72722PM	1
52	IC291	TC74VHC04FT	1	TC74VHC04FT	1	TC74VHC04FT	1	TC74VHC04FT	1	TC74VHC04FT	1
53	IC205	NJM4565M	1	NJM4565M	1	NJM4565M	1	NJM4565M	1	NJM4565M	1
54	IC290	NJM2581M	1	NJM2581M	1	NJM2581M	1	NJM2581M	1	NJM2581M	1
55	IC286,288,289	TC74HC4052AF	1	TC74HC4052AF	1	TC74HC4052AF	1	TC74HC4052AF	1	TC74HC4052AF	1
56	IC211	NJM4556AL	1	NJM4556AL	1	NJM4556AL	1	NJM4556AL	1	NJM4556AL	1

Interchangeable Parts List (IC200)											
Part No.	LOC	Part Name	QTY	Alt. Part No.	QTY	Alt. Part No.	QTY	Alt. Part No.	QTY	Alt. Part No.	QTY
57	IC200	BD3816K1	1	BD3816K1	1	BD3816K1	1	BD3816K1	1	BD3816K1	1
58	IC202	BD3841FS	1	BD3841FS	1	BD3841FS	1	BD3841FS	1	BD3841FS	1
59	IC209	LC72722PM	1	LC72722PM	1	LC72722PM	1	LC72722PM	1	LC72722PM	1
60	IC291	TC74VHC04FT	1	TC74VHC04FT	1	TC74VHC04FT	1	TC74VHC04FT	1	TC74VHC04FT	1
61	IC205	NJM4565M	1	NJM4565M	1	NJM4565M	1	NJM4565M	1	NJM4565M	1
62	IC290	NJM2581M	1	NJM2581M	1	NJM2581M	1	NJM2581M	1	NJM2581M	1
63	IC286,288,289	TC74HC4052AF	1	TC74HC4052AF	1	TC74HC4052AF	1	TC74HC4052AF	1	TC74HC4052AF	1
64	IC211	NJM4556AL	1	NJM4556AL	1	NJM4556AL	1	NJM4556AL	1	NJM4556AL	1

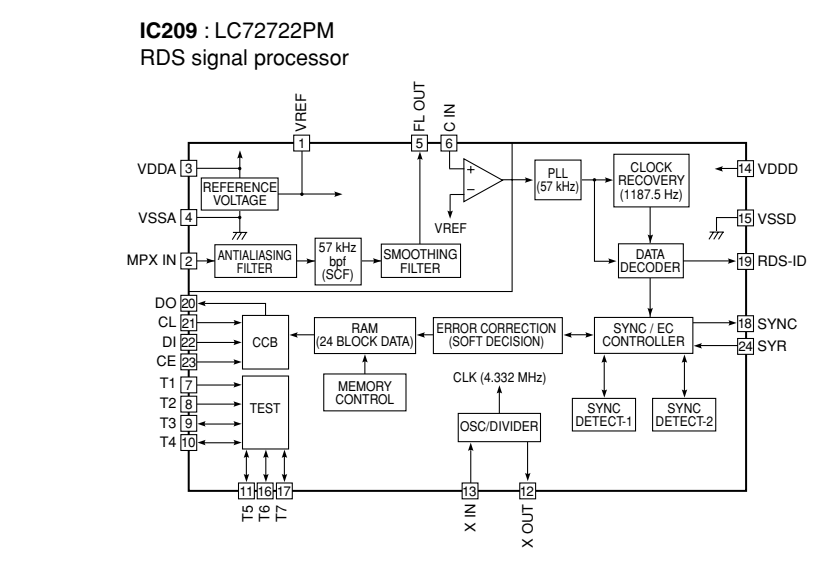
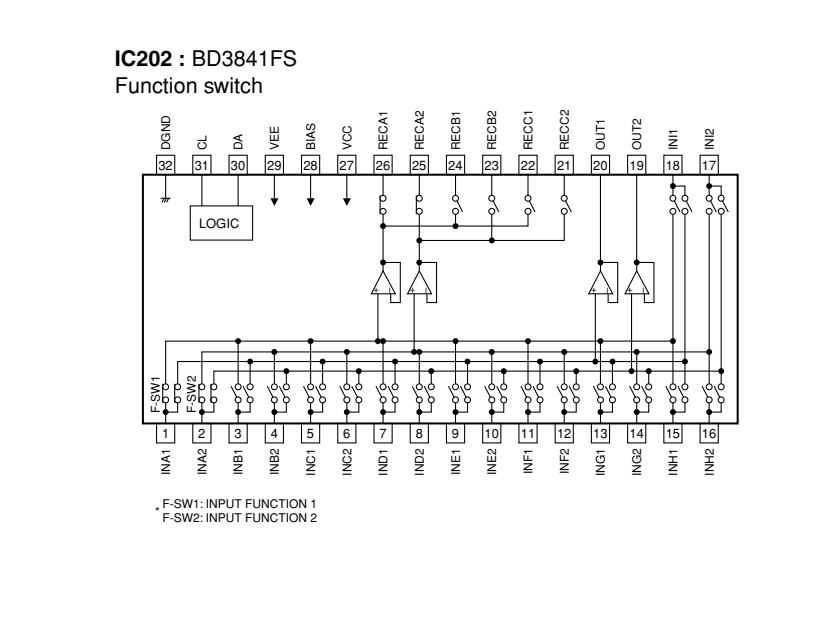
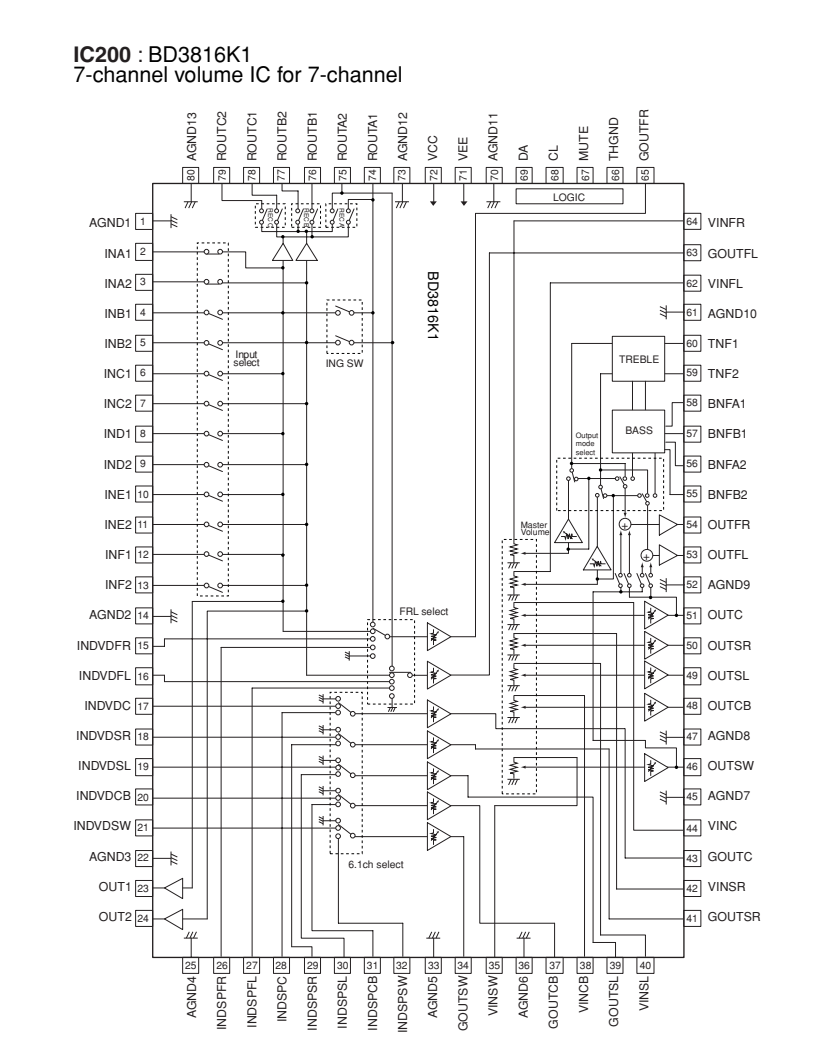
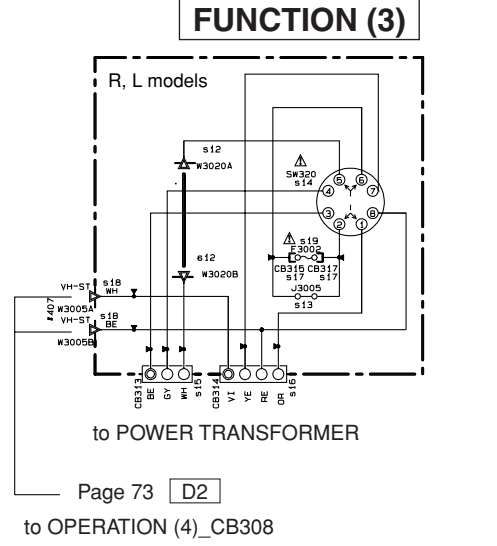


REMARKS	PARTS NAME	QTY
NO. MAIN ELECTROLYTIC CAPACITOR	ELECTROLYTIC CAPACITOR	H
NO. MAIN CERAMIC CAPACITOR	CERAMIC CAPACITOR	H
NO. CERAMIC TUBULAR CAPACITOR	CERAMIC TUBULAR CAPACITOR	H
NO. POLYESTER FILM CAPACITOR	POLYESTER FILM CAPACITOR	H
NO. POLYPROPYLENE FILM CAPACITOR	POLYPROPYLENE FILM CAPACITOR	H
NO. POLYBENZOXINE FILM CAPACITOR	POLYBENZOXINE FILM CAPACITOR	H
NO. SEMI-VARIABLE RESISTOR	SEMI-VARIABLE RESISTOR	H
NO. CHIP RESISTOR	CHIP RESISTOR	H

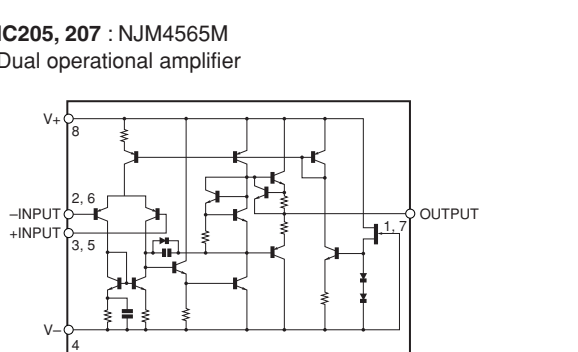
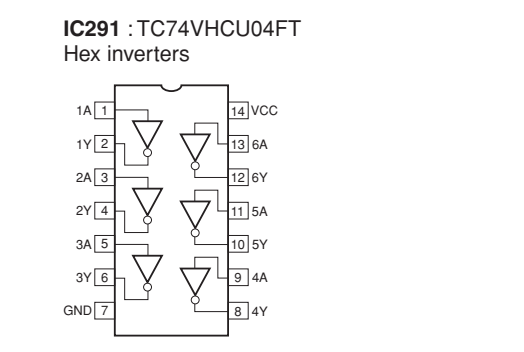
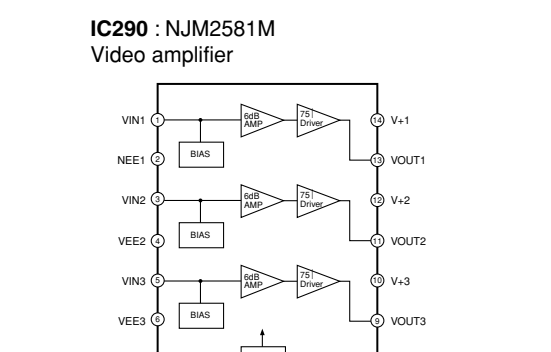
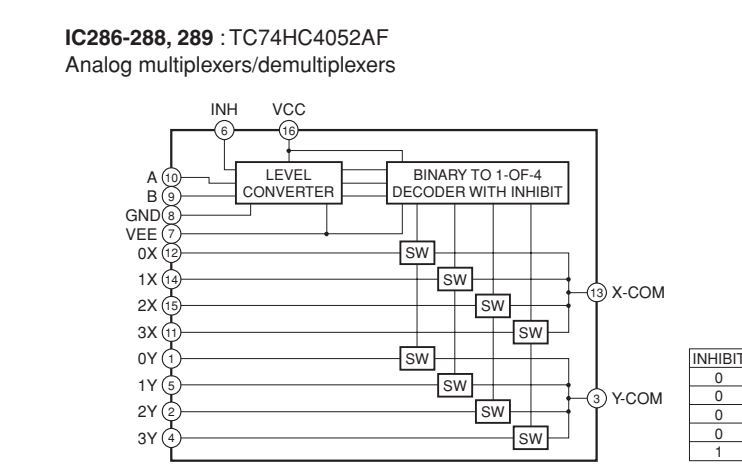
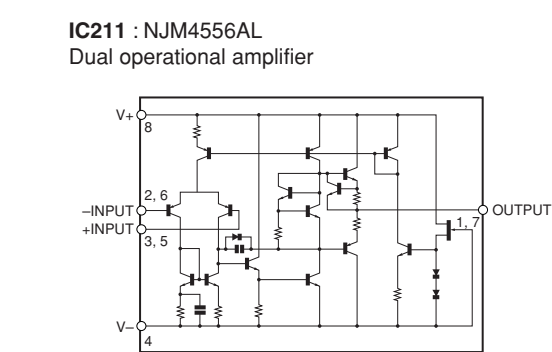
REMARKS	PARTS NAME	QTY
NO. MAIN CARBON FILM RESISTOR (2500)	CARBON FILM RESISTOR (2500)	H
NO. MAIN CARBON FILM RESISTOR (2500)	CARBON FILM RESISTOR (2500)	H
NO. METAL GLAZE FILM RESISTOR	METAL GLAZE FILM RESISTOR	H
NO. METAL FILM RESISTOR	METAL FILM RESISTOR	H
NO. FIRE PROOF CARBON FILM RESISTOR	FIRE PROOF CARBON FILM RESISTOR	H
NO. CEMENT HOUSED RESISTOR	CEMENT HOUSED RESISTOR	H
NO. SEMI-VARIABLE RESISTOR	SEMI-VARIABLE RESISTOR	H
NO. CHIP RESISTOR	CHIP RESISTOR	H

NOTICE (note)

(J) : JAPAN  
(U) : U.S.A.  
(C) : CANADA  
(O) : GENERAL  
(T) : CHINA  
(K) : KOREA  
(A) : AUSTRALIA  
(B) : BRITISH  
(E) : EUROPE  
(L) : SINGAPORE  
(S) : SOUTH EUROPE  
(V) : TAIWAN



★ All voltages are measured with a 10MΩ/V DC electronic volt meter.  
★ Components having special characteristics are marked 1, and must be replaced with parts having specifications equal to those originally installed.  
★ Schematic diagram is subject to change without notice.  
● 電圧は、内部抵抗10MΩの電圧計で測定したものです。  
● 1印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。  
● 本回路図は標準回路図です。改良のため予告なく変更することがございます。





OPERATION

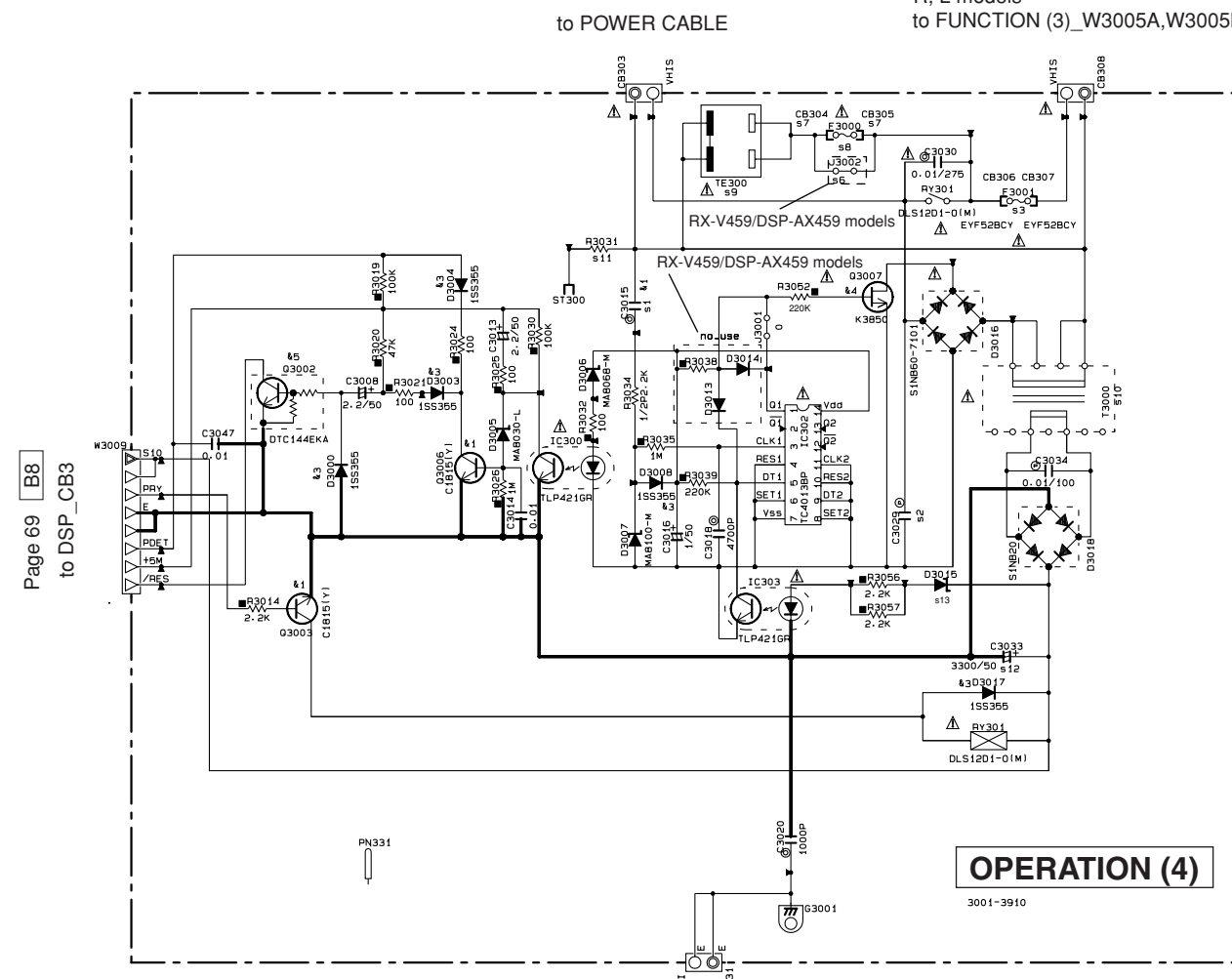
U, C, T, K, A, G, J models  
to POWER TRANSFORMER  
Page 72 [J9]  
R, L models  
to FUNCTION (3)\_W3005A,W3005B

NOTICE (model)  
(J)..... JAPAN  
(U)..... U.S.A.  
(C)..... CANADA  
(G)..... GENERAL  
(T)..... CHINA  
(K)..... KOREA  
(A)..... AUSTRALIA  
(B)..... BRITISH  
(E)..... EUROPE  
(L)..... SINGAPORE  
(V)..... SOUTH EUROPE  
(V)..... TAIWAN

RESISTOR PARTS NAME table with columns for RESISTOR, PARTS NAME, and CAPACITOR PARTS NAME.

DESTINATION PART LIST table with columns for NO., LOC., QTY., and PART NAME.

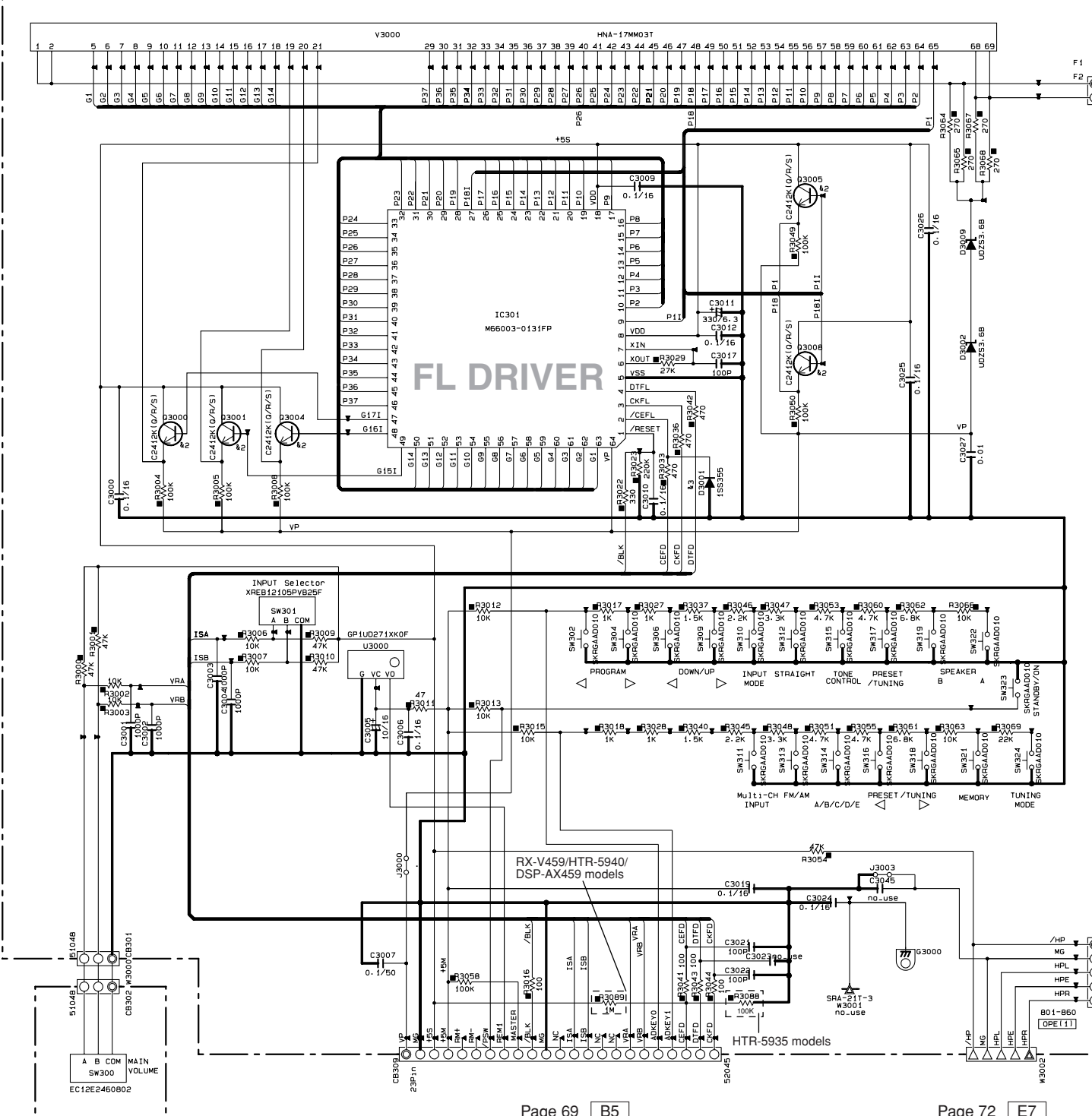
Interchangeable Parts at Manufacture-Stage table with columns for No., Reference Part Number, and Part Name.



OPERATION (4)

Page 74 [H7]  
to MAIN (1)\_W1029

OPERATION (1)

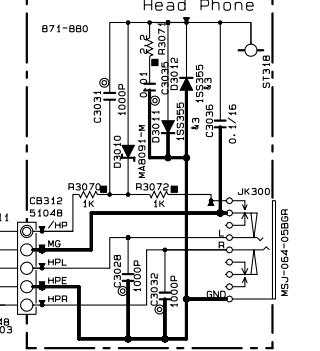


OPERATION (6)

Page 69 [B5]  
to DSP\_CB5

Page 72 [E7]  
to FUNCTION (1)\_CB205

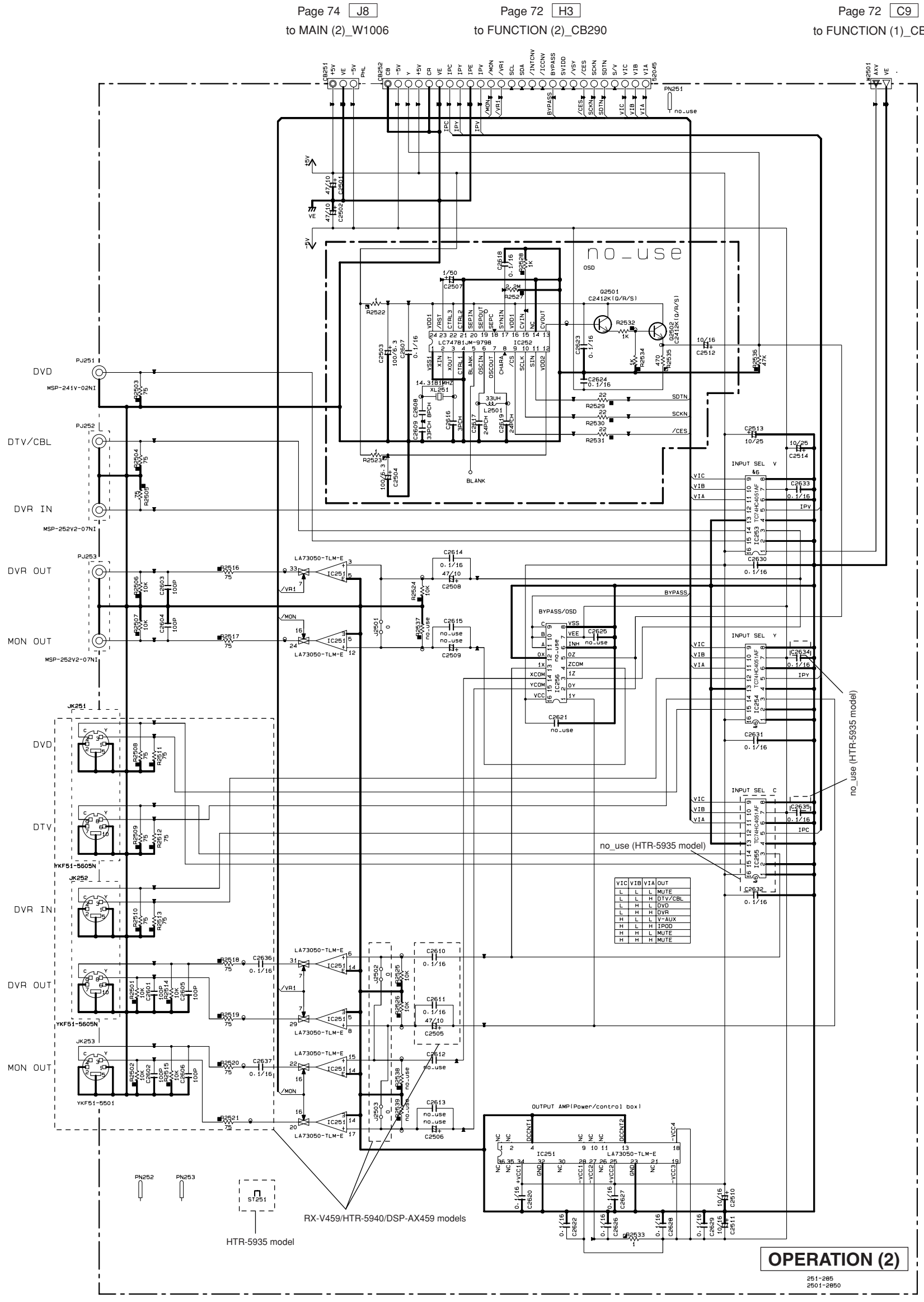
OPERATION (3)



OPERATION (5)

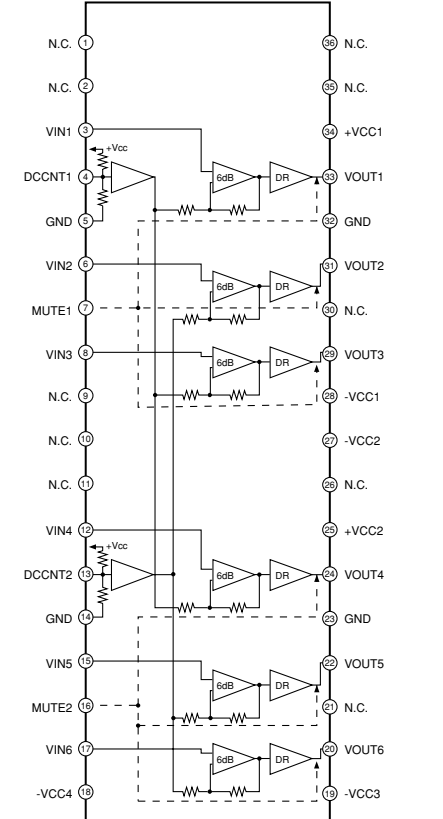


Page 72 [E1]  
to FUNCTION (1)\_CB203

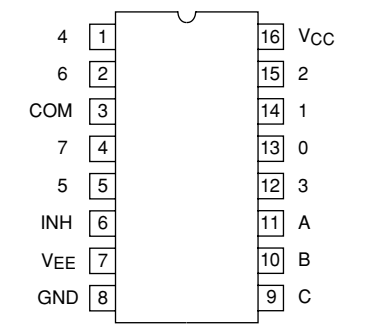


OPERATION (2)

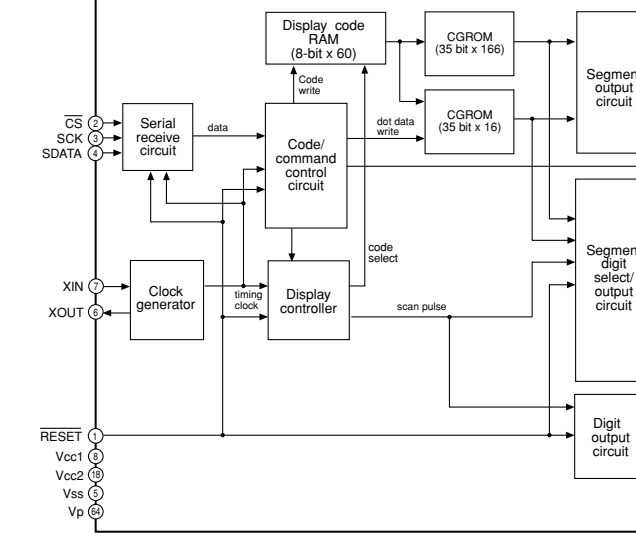
IC251 : LA73050-TLM-E  
Analog amplifier



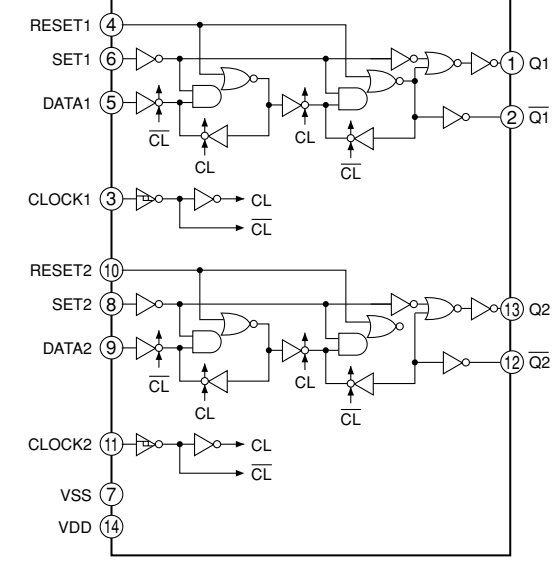
IC253-255 : TC74HC4051AF  
Analog multiplexers/demultiplexers



IC301 : M66003-0131FP  
FL display driver



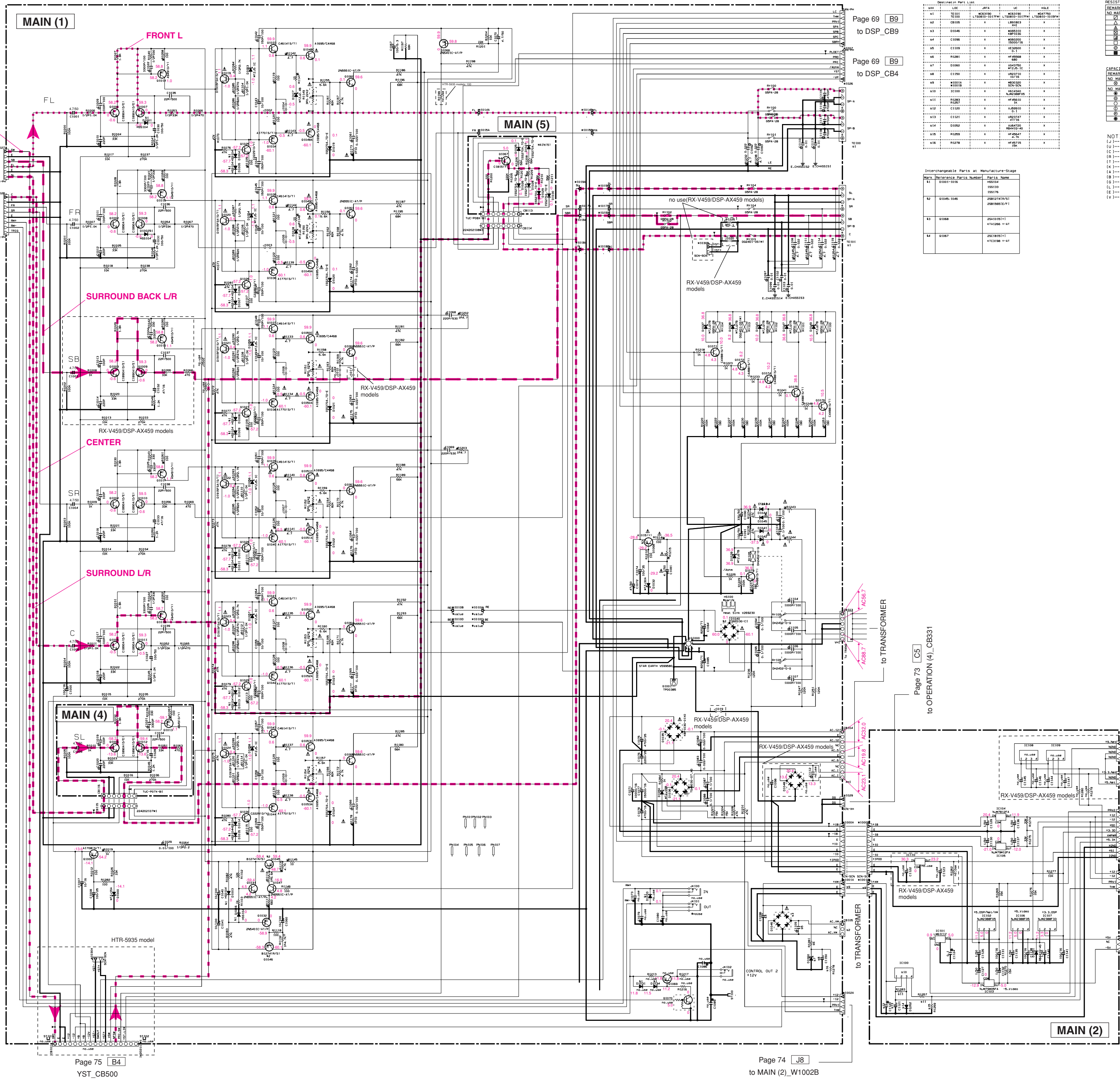
IC302 : TC4013BP  
Dual D-type flip flop



\* All voltages are measured with a 10M $\Omega$ /V DC electronic 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.

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RESISTOR

NO	VALUE	TYPE	IC	UNIT
41	100	±1%	100	Ω
42	1000	±1%	1000	Ω
43	10000	±1%	10000	Ω
44	100000	±1%	100000	Ω
45	1000000	±1%	1000000	Ω
46	10000000	±1%	10000000	Ω
47	100000000	±1%	100000000	Ω
48	1000000000	±1%	1000000000	Ω
49	10000000000	±1%	10000000000	Ω
50	100000000000	±1%	100000000000	Ω
51	1000000000000	±1%	1000000000000	Ω
52	10000000000000	±1%	10000000000000	Ω
53	100000000000000	±1%	100000000000000	Ω
54	1000000000000000	±1%	1000000000000000	Ω
55	10000000000000000	±1%	10000000000000000	Ω
56	100000000000000000	±1%	100000000000000000	Ω
57	1000000000000000000	±1%	1000000000000000000	Ω
58	10000000000000000000	±1%	10000000000000000000	Ω
59	100000000000000000000	±1%	100000000000000000000	Ω
60	1000000000000000000000	±1%	1000000000000000000000	Ω

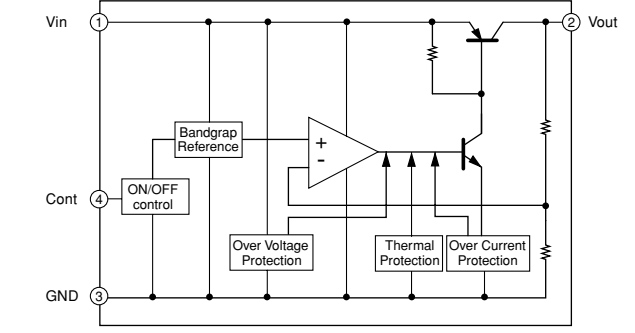
CAPACITOR

NO	VALUE	TYPE	IC	UNIT
61	1000000	±1%	1000000	μF
62	100000	±1%	100000	μF
63	10000	±1%	10000	μF
64	1000	±1%	1000	μF
65	100	±1%	100	μF
66	10	±1%	10	μF
67	1	±1%	1	μF
68	0.1	±1%	0.1	μF
69	0.01	±1%	0.01	μF
70	0.001	±1%	0.001	μF
71	1000000000000	±1%	1000000000000	pF
72	100000000000	±1%	100000000000	pF
73	10000000000	±1%	10000000000	pF
74	1000000000	±1%	1000000000	pF
75	100000000	±1%	100000000	pF
76	10000000	±1%	10000000	pF
77	1000000	±1%	1000000	pF
78	100000	±1%	100000	pF
79	10000	±1%	10000	pF
80	1000	±1%	1000	pF
81	100	±1%	100	pF
82	10	±1%	10	pF
83	1	±1%	1	pF
84	0.1	±1%	0.1	pF
85	0.01	±1%	0.01	pF
86	0.001	±1%	0.001	pF

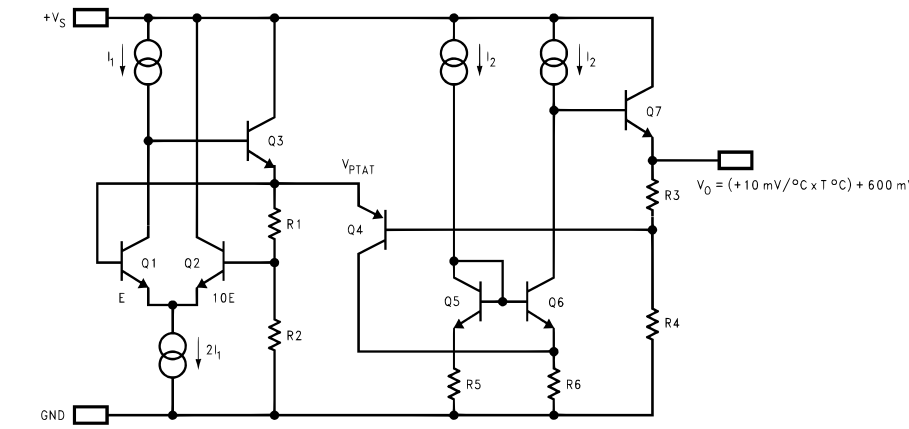
NOTICE (Model)

- J..... JAPAN
- U..... U.S.A.
- C..... CANADA
- B..... BRITAIN
- T..... TAIWAN
- A..... AUSTRIA
- S..... SWITZERLAND
- D..... GERMANY
- L..... SINGAPORE
- E..... SOUTH EUROPE
- V..... VIETNAM

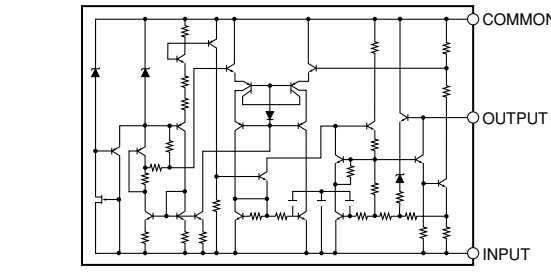
IC100, 102, 106 : NJM2388F  
Low dropout voltage regulator with ON/OFF control



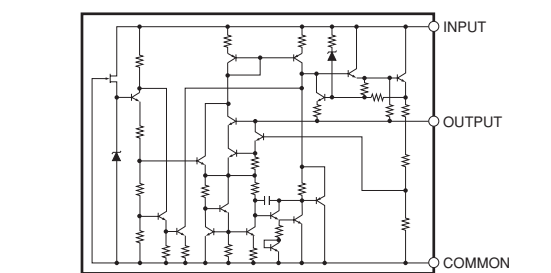
IC101 : LM61CIZ  
Temperature sensor



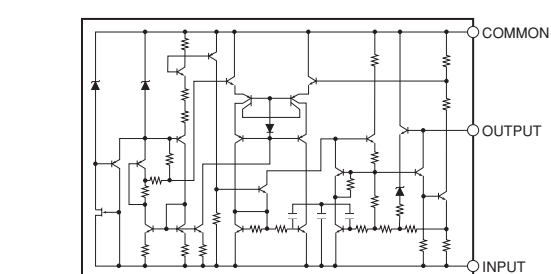
IC103 : NJM79M05FA  
Voltage regulator



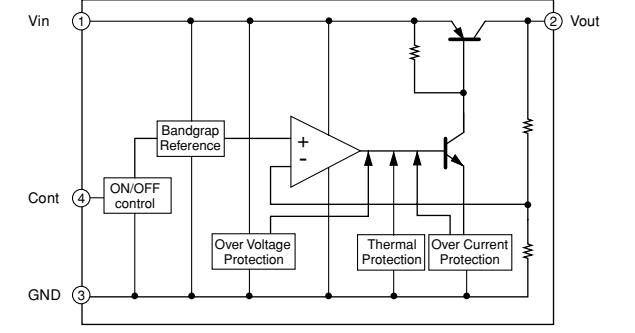
IC104 : NJM7812FA  
Voltage regulator



IC105 : NJM79M12FA  
Voltage regulator



IC107 : NJM2388F  
Low dropout voltage regulator with ON/OFF control



\* All voltages are measured with a 10MΩ/V DC electronic volt meter.  
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\* Schematic diagram is subject to change without notice.

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Page 72 [E8] to FUNCTION (1)\_CB207

Page 72 [E8] to FUNCTION (1)\_CB206

Page 69 [B9] to DSP\_CB9

Page 69 [B9] to DSP\_CB4

TRANSFORMER PARTS BY MANUFACTURE

NO	DESCRIPTION	DATE	NAME
1	TRANSFORMER	2007/12/11	YOSHIDA
2	TRANSFORMER	2007/12/11	YOSHIDA
3	TRANSFORMER	2007/12/11	YOSHIDA
4	TRANSFORMER	2007/12/11	YOSHIDA

Page 73 [C5] to OPERATION (4)\_CB331

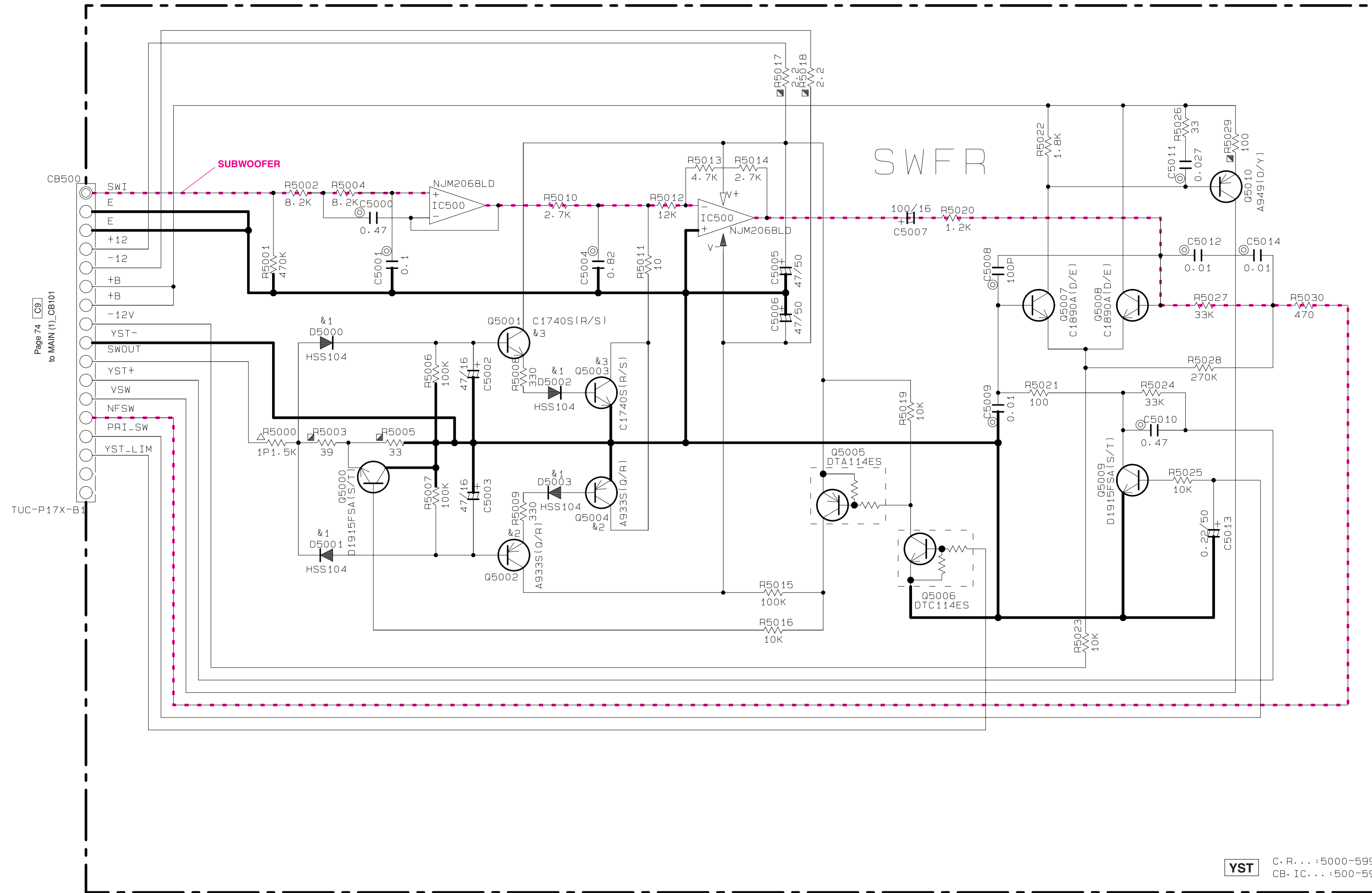
Page 71 [D1] to DSP\_CB57

Page 74 [H9] to MAIN (1)\_W1002A

Page 73 [I3] to OPERATION (2)\_CB251

Page 74 [J8] to MAIN (2)\_W1002B

Page 75 [B4] YST\_CB500

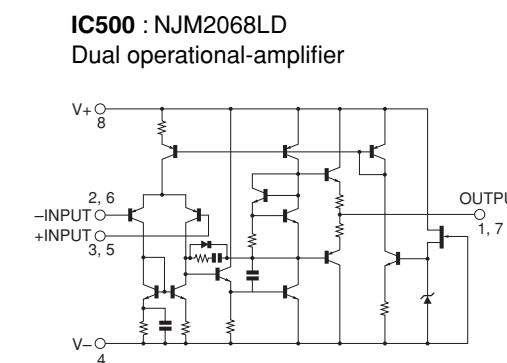


YST C. R. . . : 5000-5999  
CB. IC. . . : 500-599

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
&1	D5000-5003	HSS104 1SS355 1SS176
&2	Q5002-5004	2SA933S [Q/R] 2SA1309A [Q/R/S]
&3	Q5001-5003	2SC1740S [R/S] 2SC3311ARA [Q/R/S]

NOTICE (mode1)  
(J)..... JAPAN  
(U)..... U. S. A  
(C)..... CANADA  
(R)..... GENERAL  
(T)..... CHINA  
(K)..... KOREA  
(A)..... AUSTRALIA  
(B)..... BRITISH  
(G)..... EUROPE  
(L)..... SINGAPORE  
(E)..... SOUTH EUROPE  
(V)..... TAIWAN



★ All voltages are measured with a 10MΩ/V DC electronic volt meter.  
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★ Schematic diagram is subject to change without notice.  
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**RX-V459/HTR-5940**

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