

AV RECEIVER

RX-A3010/RX-V3071

RX-A3010/RX-V3071

SERVICE MANUAL

CAUTION: When the DIGITAL1 P.C.B. or IC83 on DIGITAL1 P.C.B. is replaced, this unit will not operate properly without additional setting.

In such a case, report the serial number of this unit to the following e-mail address.

Yamaha Corporation will reply providing the setting procedure to make this unit operate properly.

注意： DIGITAL1 P.C.B. または DIGITAL1 P.C.B. の IC83 を交換すると本機が正常に動作しなくなり、正常動作のための追加設定が必要になります。
そのような場合には本機のシリアルナンバーを下記の E メールアドレスへご連絡ください。
折り返し、本機が正常に動作するための追加設定方法をご連絡します。

E-mail: ycav-ysiss@gmx.yamaha.com

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.

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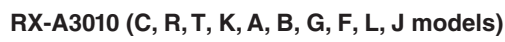


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This Service Manual uses recycled paper.

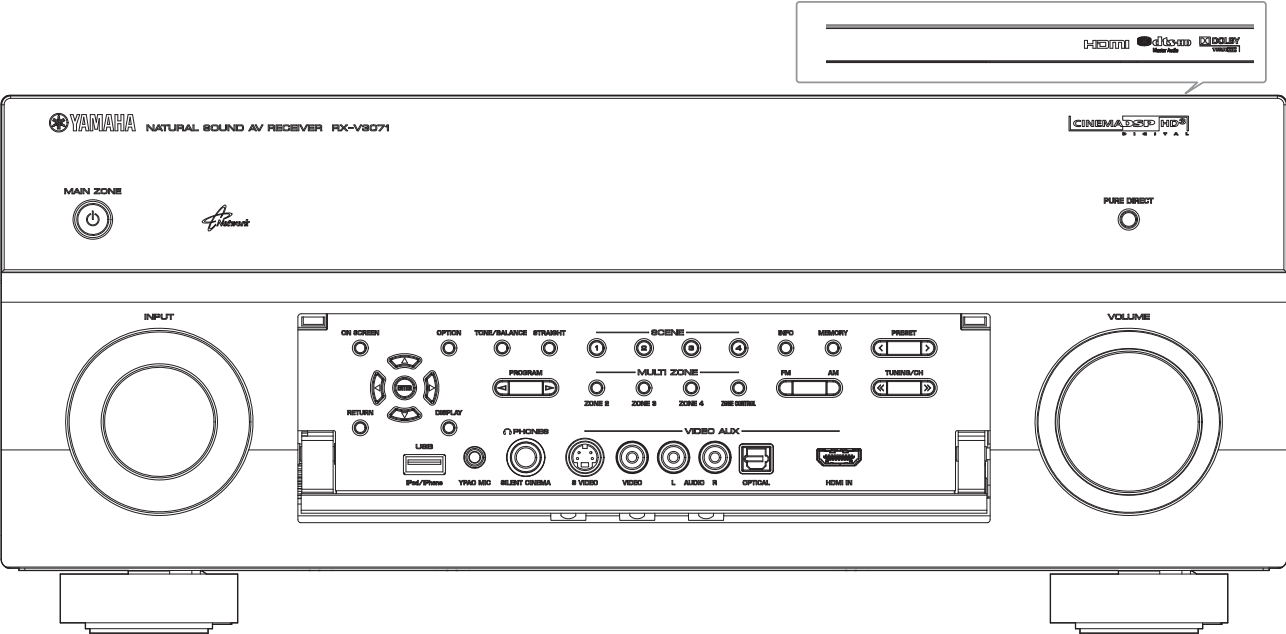


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P.O.Box 1, Hamamatsu, Japan

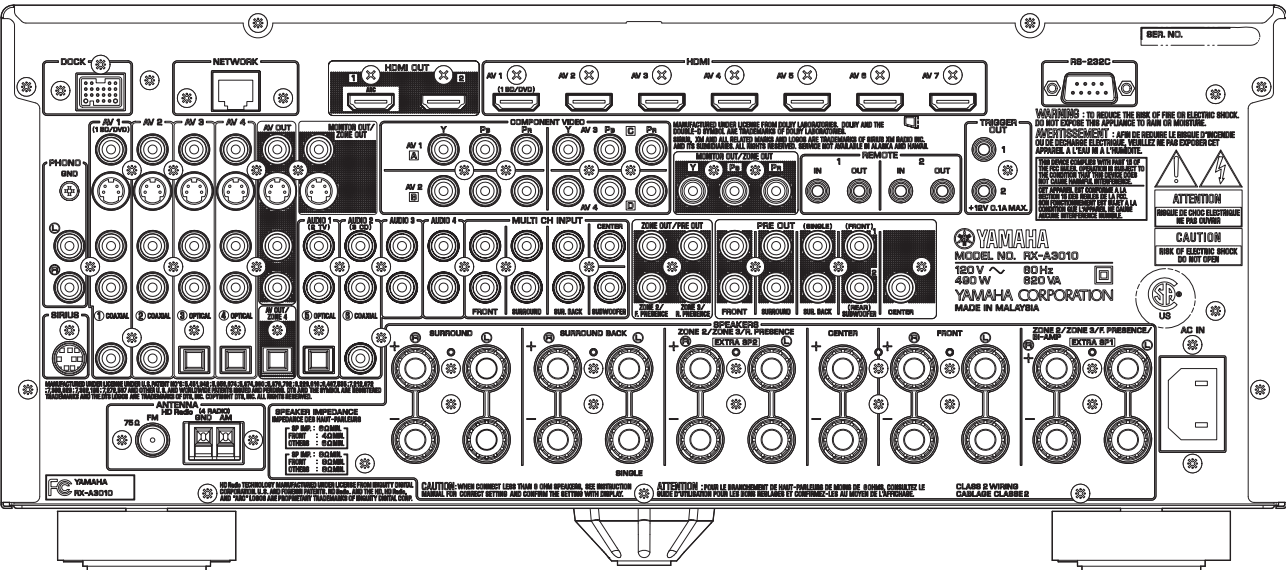
RX-A3010 (U model)

RX-V3071 (T, A models)



REAR PANELS

RX-A3010 (U model)



BLOCK DIAGRAMS

AUDIO Section Block Diagram

DIGITAL1 • See page 127–135 → SCHEMATIC DIAGRAM

DAC • See page 134 → SCHEMATIC DIAGRAM

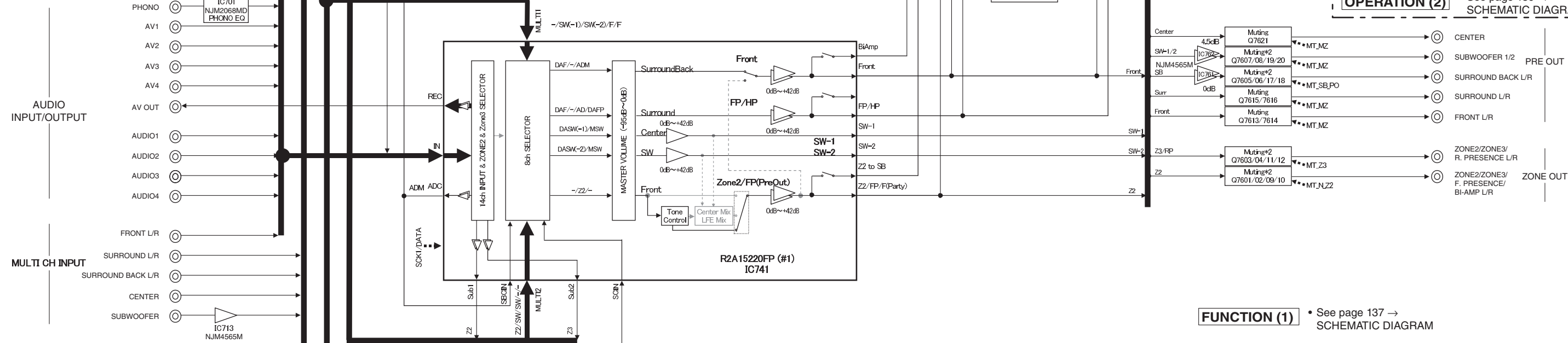
AMP • See page 140, 141 → SCHEMATIC DIAGRAM

FUNCTION (2) • See page 138 → SCHEMATIC DIAGRAM

OPERATION (2) • See page 139 → SCHEMATIC DIAGRAM

VIDEO (1) • See page 144, 145 → SCHEMATIC DIAGRAM

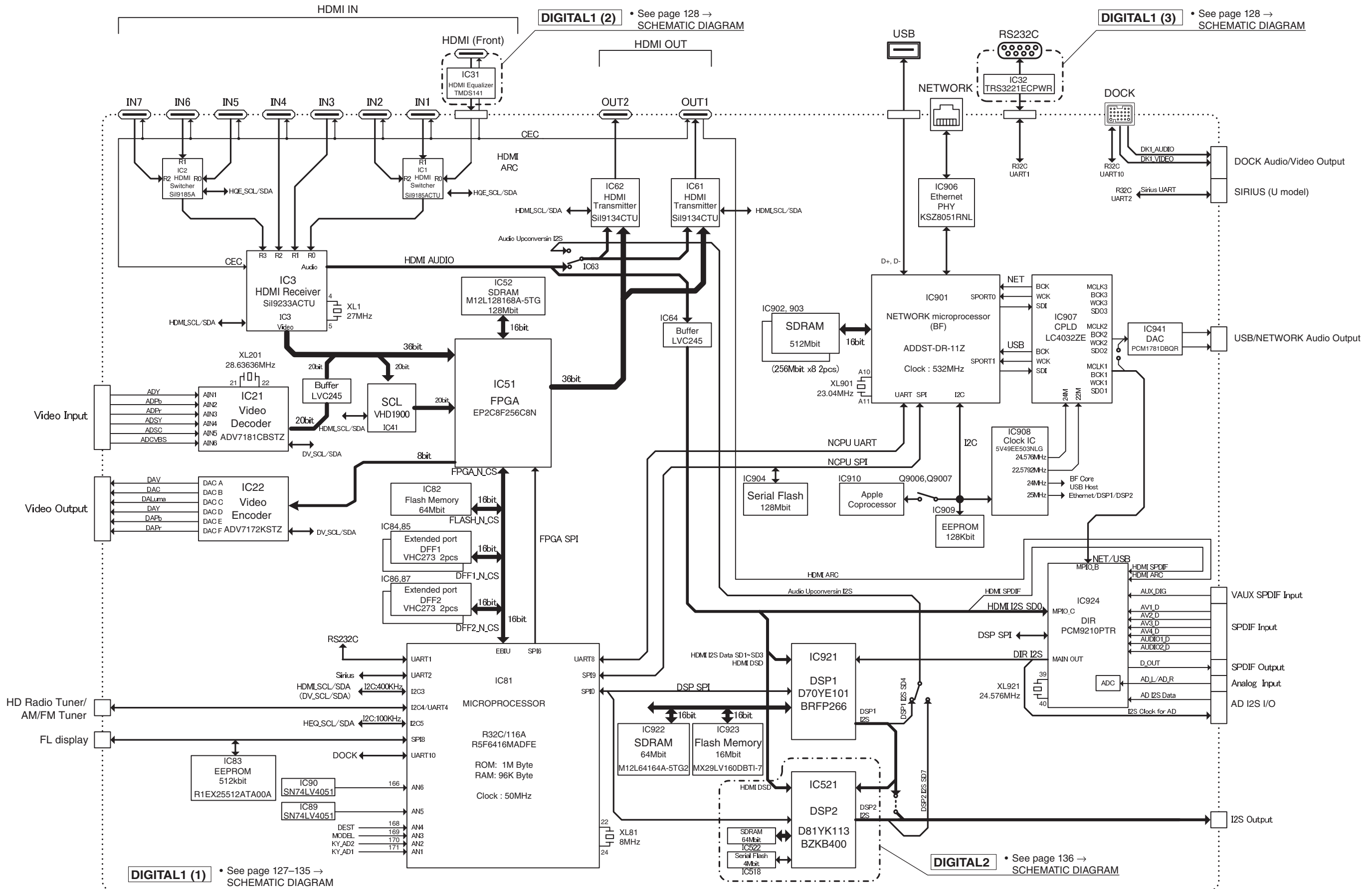
OPERATION (2) • See page 139 → SCHEMATIC DIAGRAM



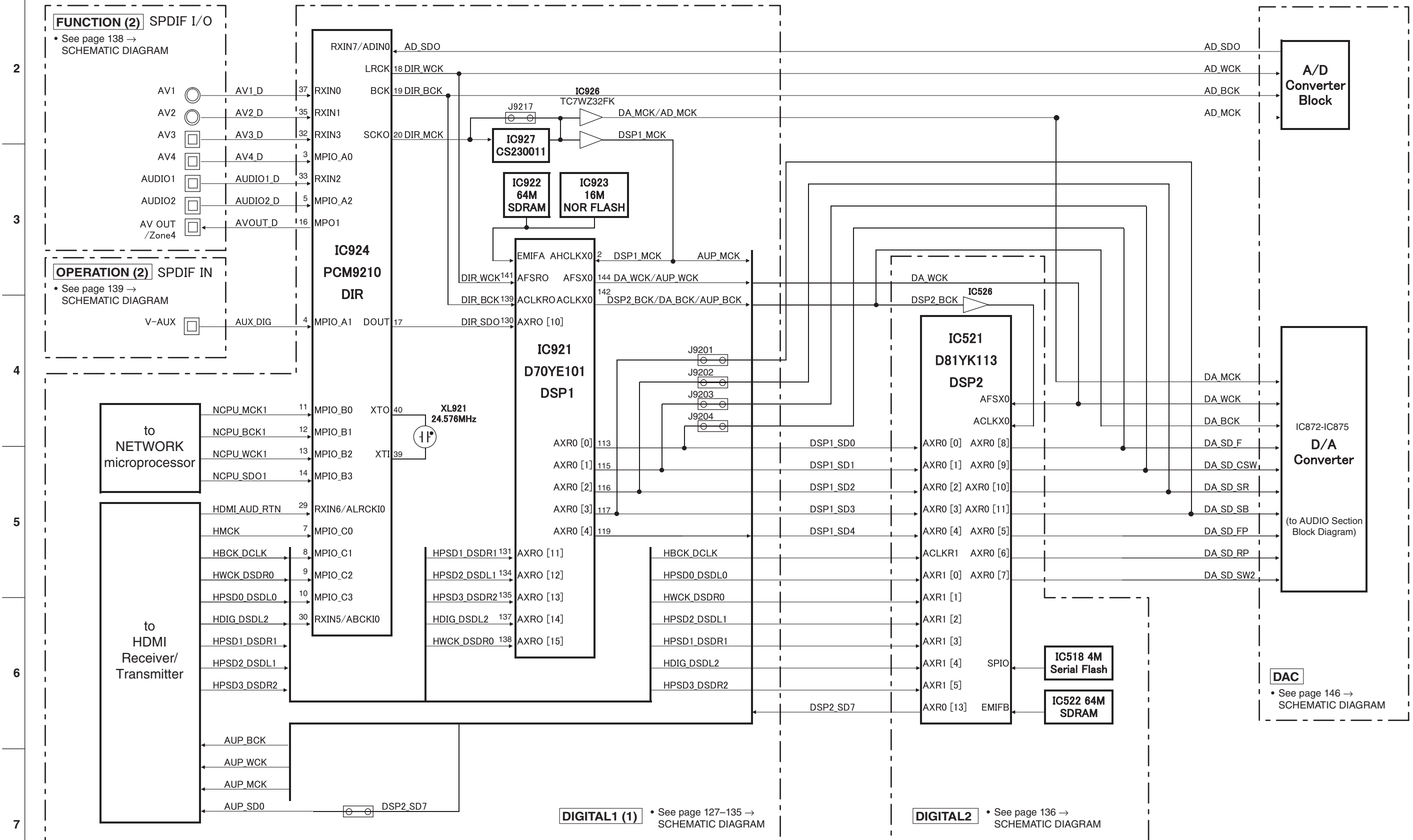
	#1	#2
IN1	MULT1 CH	MUTE
IN2	AUD104	MUTE
IN3	AUD103	Z2 (#1SUB1)
IN4	AUD102	Z3 (#1SUB2)
IN5	AUD101	MUTE
IN6	AV4	MUTE
IN7	AV3	DAF
IN8	AV2	YPAO Mic
INA/REC1	AV-OUT	to ZoneADC
IN9	AV1	NET
INB/REC2	PHONO	MUTE
IN10/REC4	DOCK	Tuner
IN11/REC5	Sirius	MUTE
IN12	V-AUX	DAFP
IN13	EXT (#2ADC)	DAFP
IN14 (def.)	MUTE	MUTE
REC3	(OPEN)	(OPEN)
ADC (OUT)	to ADC	to #1IN13
SUB1 (OUT)	to #2IN3 (Z2)	to #1IN2 (Z2)
SUB2 (OUT)	to #2IN4 (Z3)	to #2IN2 (Z3)

FUNCTION (1) • See page 137 → SCHEMATIC DIAGRAM

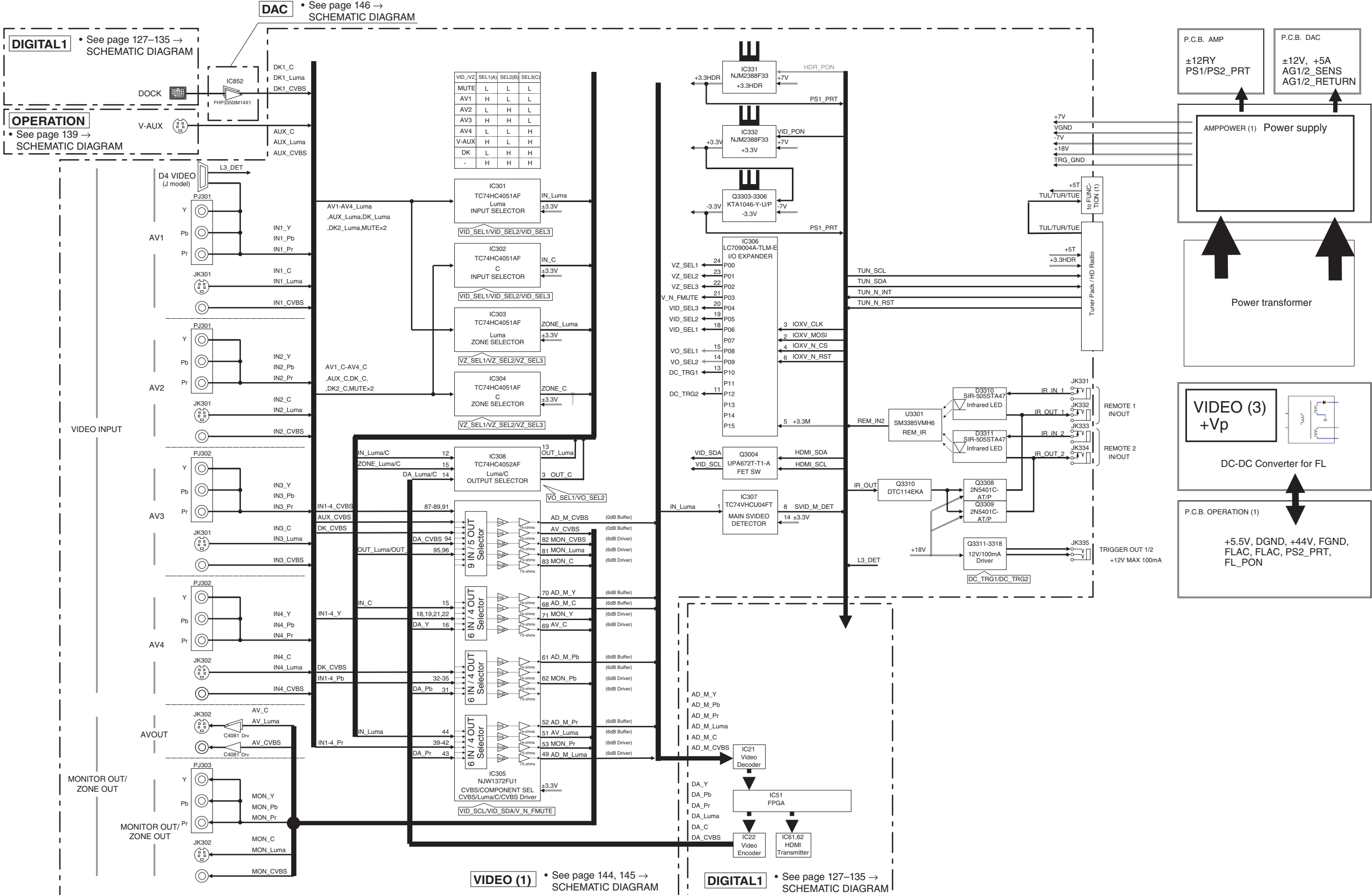
DIGITAL P.C.B. Section Block Diagram



DIGITAL AUDIO Section Block Diagram



VIDEO Section Block Diagram



Power Supply Section Block Diagram

AMPPOWER • See page 142 → SCHEMATIC DIAGRAM

VIDEO (3) • See page 145 → SCHEMATIC DIAGRAM

OPERATION (1)
• See page 139 → SCHEMATIC DIAGRAM

POWER • See page 143 → SCHEMATIC DIAGRAM

DIGITAL1 • See page 127–135 → SCHEMATIC DIAGRAM

A	B
C	D

AMP 1/2

RX-A3010/RX-V3071

AMP 1/2

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
	CARBON FILM RESISTOR (P=10)
	METAL OXIDE FILM RESISTOR
	METAL FILM RESISTOR
	METAL PLATE RESISTOR
	FIRE PROOF CARBON FILM RESISTOR
	CEMENT MOLDED RESISTOR
	SEMI VARIABLE RESISTOR
	CHIP RESISTOR

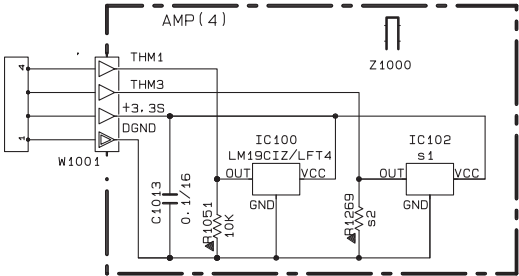
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NO MARK	ELECTROLYTIC CAPACITOR	
	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	
	CERAMIC TUBULAR CAPACITOR	
	POLYESTER FILM CAPACITOR	
	POLYSTYRENE FILM CAPACITOR	
	MICA CAPACITOR	
	POLYPROPYLENE FILM CAPACITOR	
	SEMICONDUCTIVE CERAMIC CAPACITOR	
	POLYPHENYLENE SULFIDE FILM CAPACITOR	

NOTICE (model)

(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
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

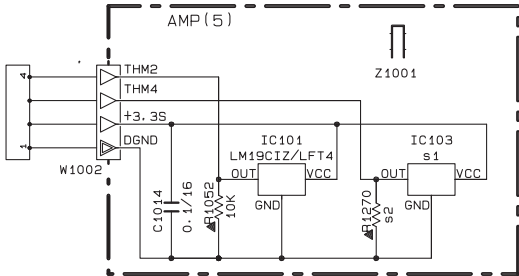
Destination Part List						
sXX	LOC	J	U	C	RTA	KBGLF
s1	IC102 IC103	X	X	YA381A0 LM19CIZ/LFT4	X	X
s2	R1269 R1270	X	X	RF35710 10K	X	X
s3	C1020 C1019 C1022 C1067 C1065 C1066 C1068 C1069 C1021	WE10210 2200P/100	WN16480 2200P/100	WN16480 2200P/100	WN16480 2200P/100	WE10210 2200P/100
s4	C1012 C1008 C1006 C1010 C1055 C1051 C1059 C1057 C1053	WE10090 220P/630	WJ60830 220P/100	WJ60830 220P/100	WJ60830 220P/100	WE10090 220P/630
s5	C1082 C1033 C1035 C1085 C1086 C1084 C1032 C1083 C1035 C1034	WE10090 220P/630	WN16420 220P/100	WN16420 220P/100	WN16420 220P/100	WE10090 220P/630
s6	TE150	MST-226VD-01-GI WU73050	MST-226VD-01-76 WU72920	MST-226VD-01-76 WU72920	MST-226VD-01-GI WU73050	MST-226VD-01-GI WU73060
s7	TE151 TE152 TE153	MST-224VD-01-GI WU73070	MST-224VD-01-76 WU73010	MST-224VD-01-76 WU73010	MST-224VD-01-GI WU73070	MST-224VD-01-GI WU73270
s8	C1549 C1548 C1539 C1554 C1546 C1545 C1540 C1091 C1088 C1089 C1543 C1036 C1090 C1037 C1087 C1039 C1036 C1542	WJ61060 0.022/100	WN16550 0.022/100	WN16550 0.022/100	WN16550 0.022/100	WJ61060 0.022/100

Page 132 J9
to DIGITAL1 (1)_CB93



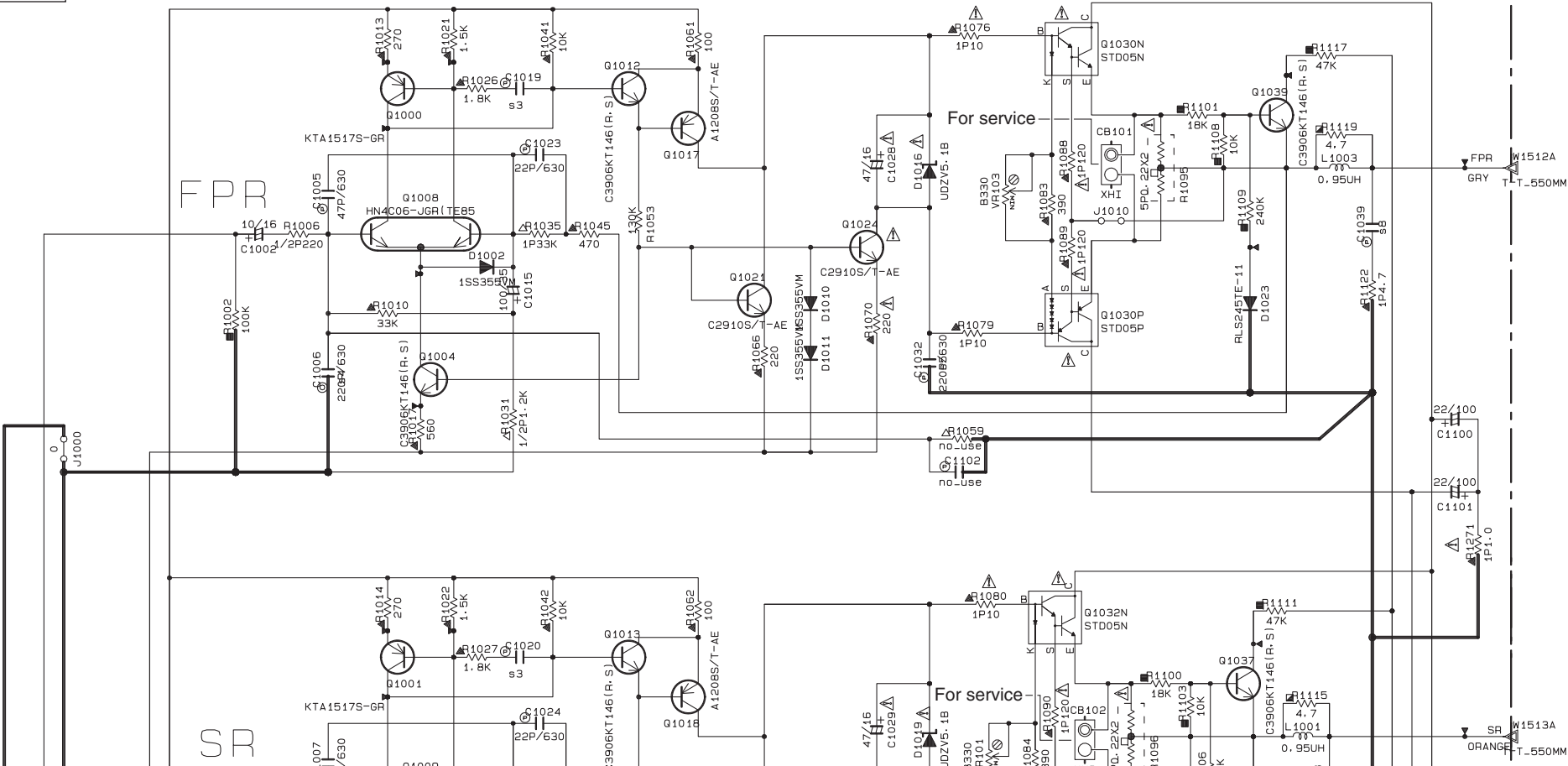
AMP (4)

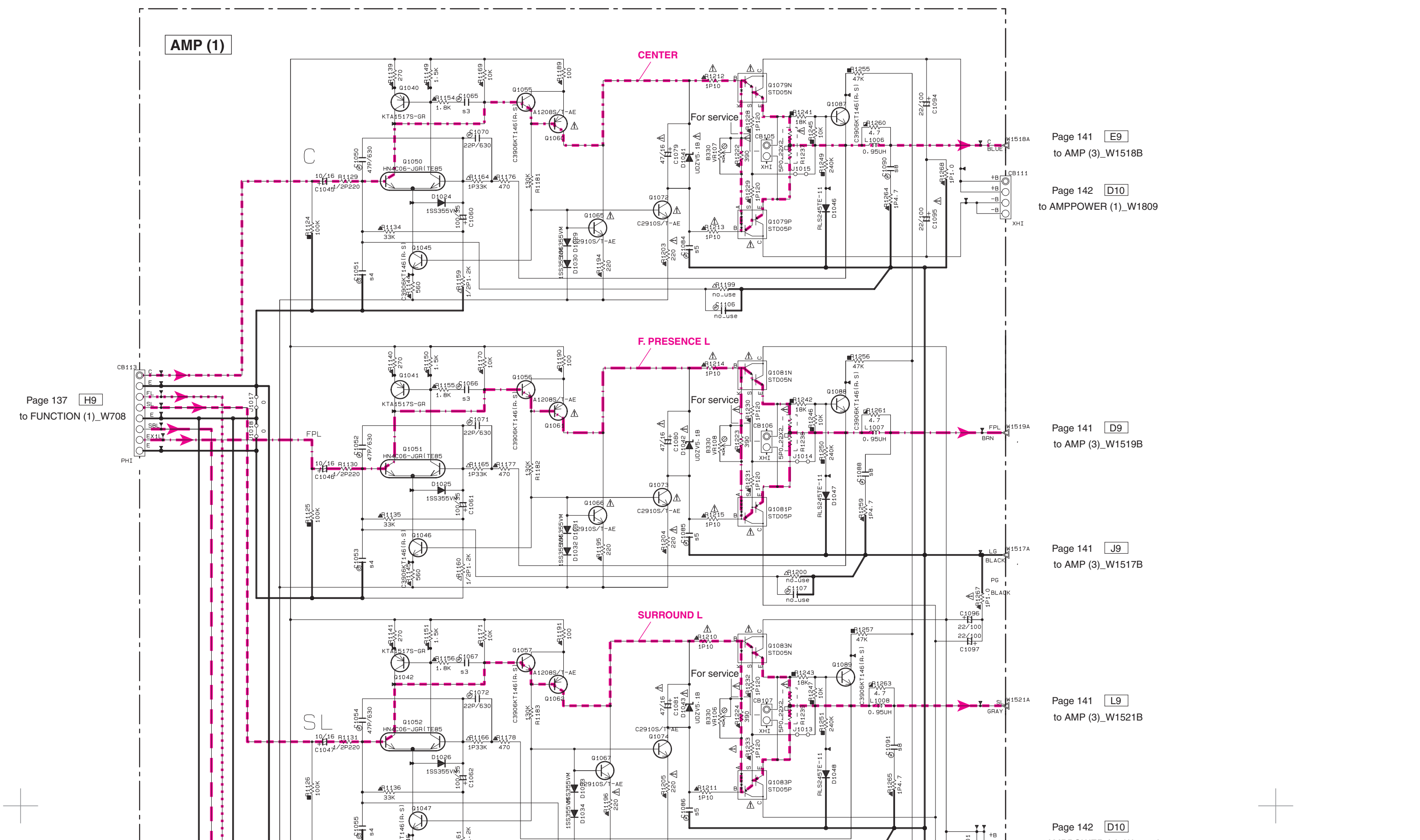
Page 132 I9
to DIGITAL1 (1)_CB84

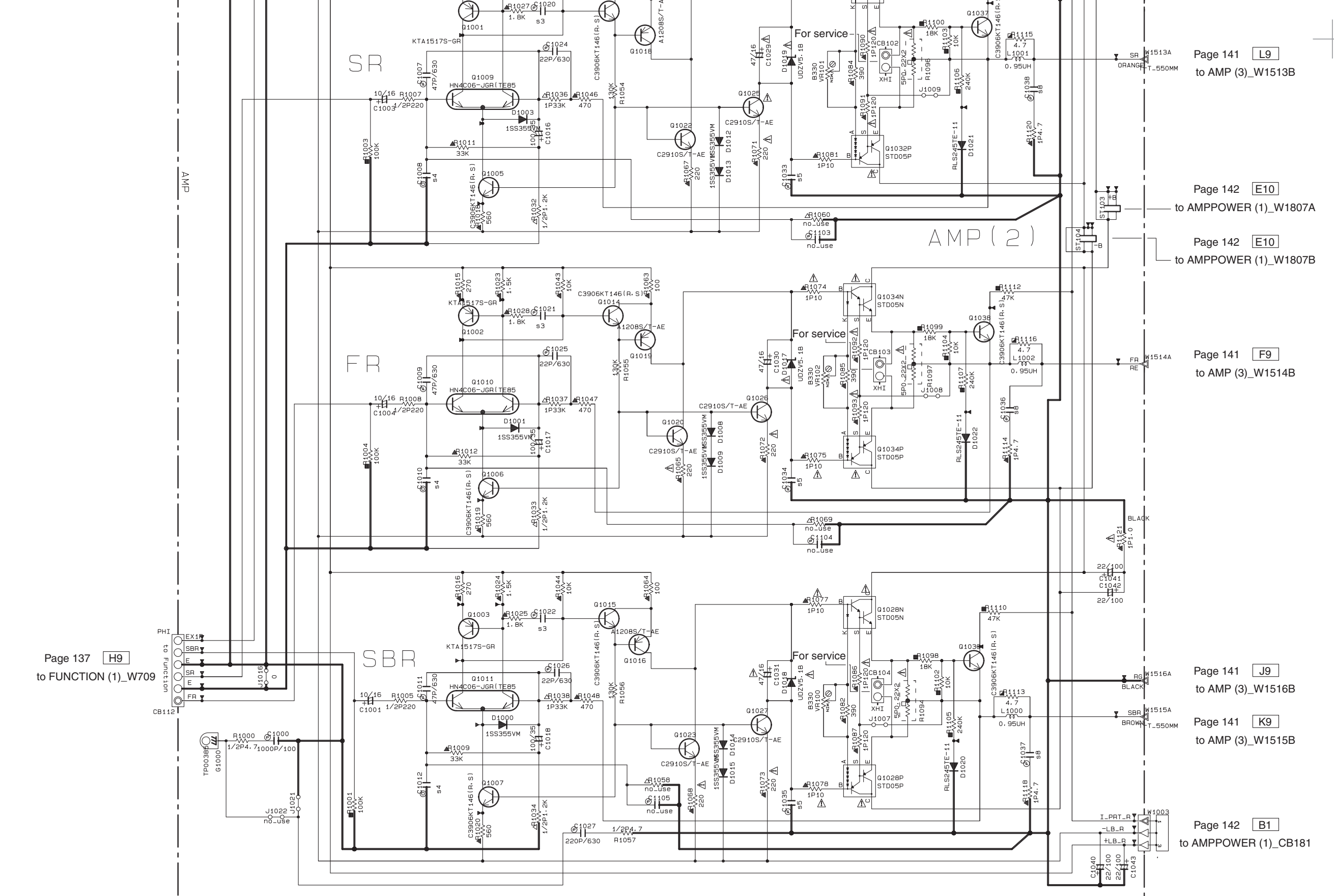


AMP (5)

AMP (2)







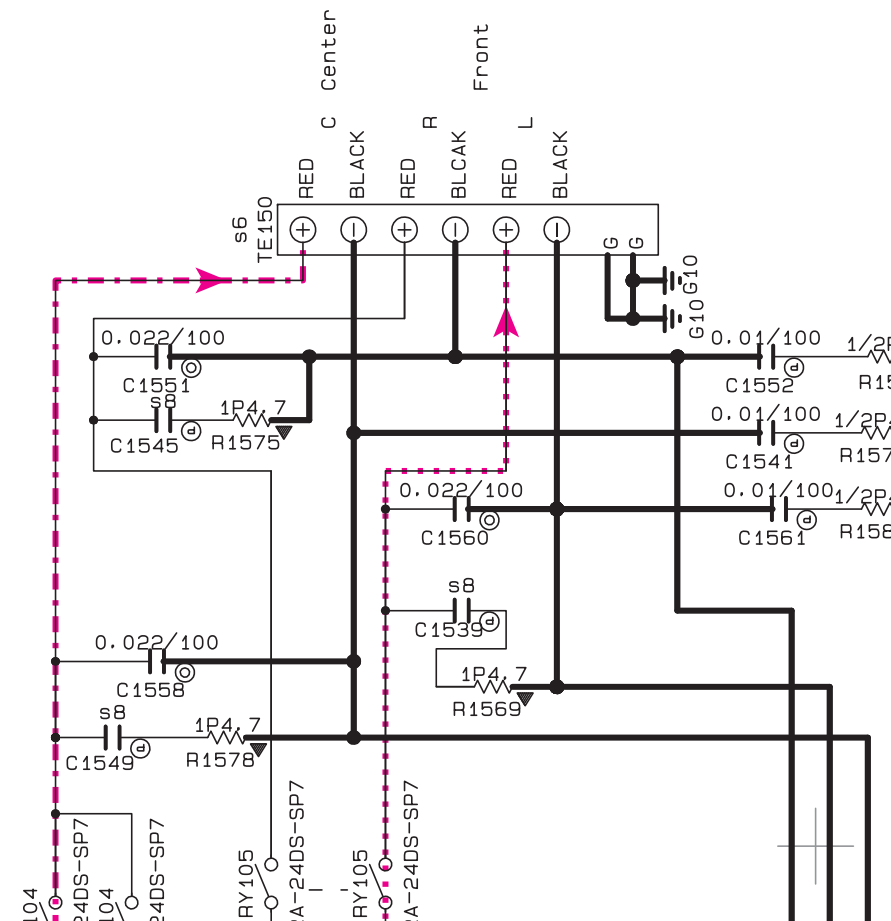
1

2

3

4

5



REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
	CARBON FILM RESISTOR (P=10)
	METAL OXIDE FILM RESISTOR
	METAL FILM RESISTOR
	METAL PLATE RESISTOR
	FIRE PROOF CARBON FILM RESISTOR
	CEMENT MOLDED RESISTOR
	SEMI VARIABLE RESISTOR
	CHIP RESISTOR

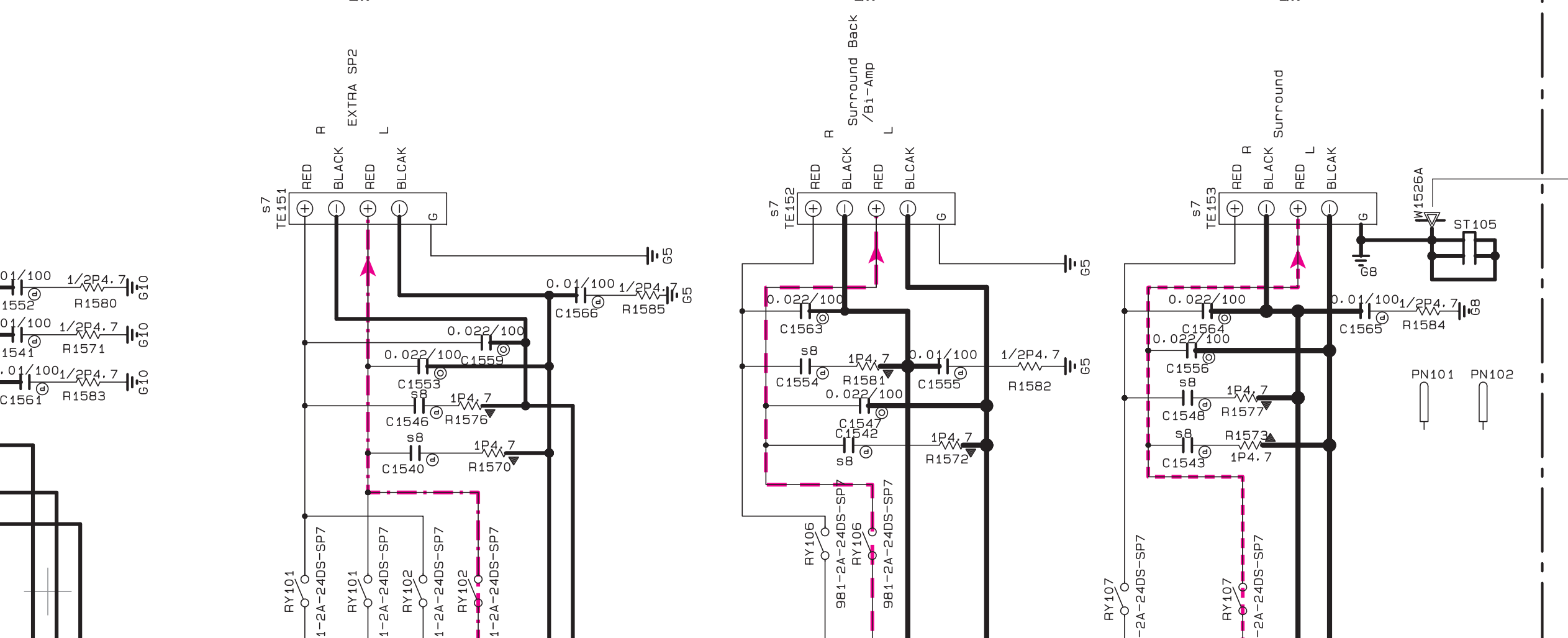
REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	H
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	H
●	CERAMIC TUBULAR CAPACITOR	
◎	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
①	MICA CAPACITOR	
Ⓟ	POLYPROPYLENE FILM CAPACITOR	
⊗	SEMICONDUCTIVE CERAMIC CAPACITOR	
Ⓢ	POLYPHENYLENE SULFIDE FILM CAPACITOR	

(J)..... JAPAN
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(E)..... SOUTH EUROPE
(V)..... TAIWAN
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

— ZONE2/ZONE3/R. PRESENCE —
L/R

— SURROUND BACK —
L/R

— SURROUND —
L/R





A	B
C	D

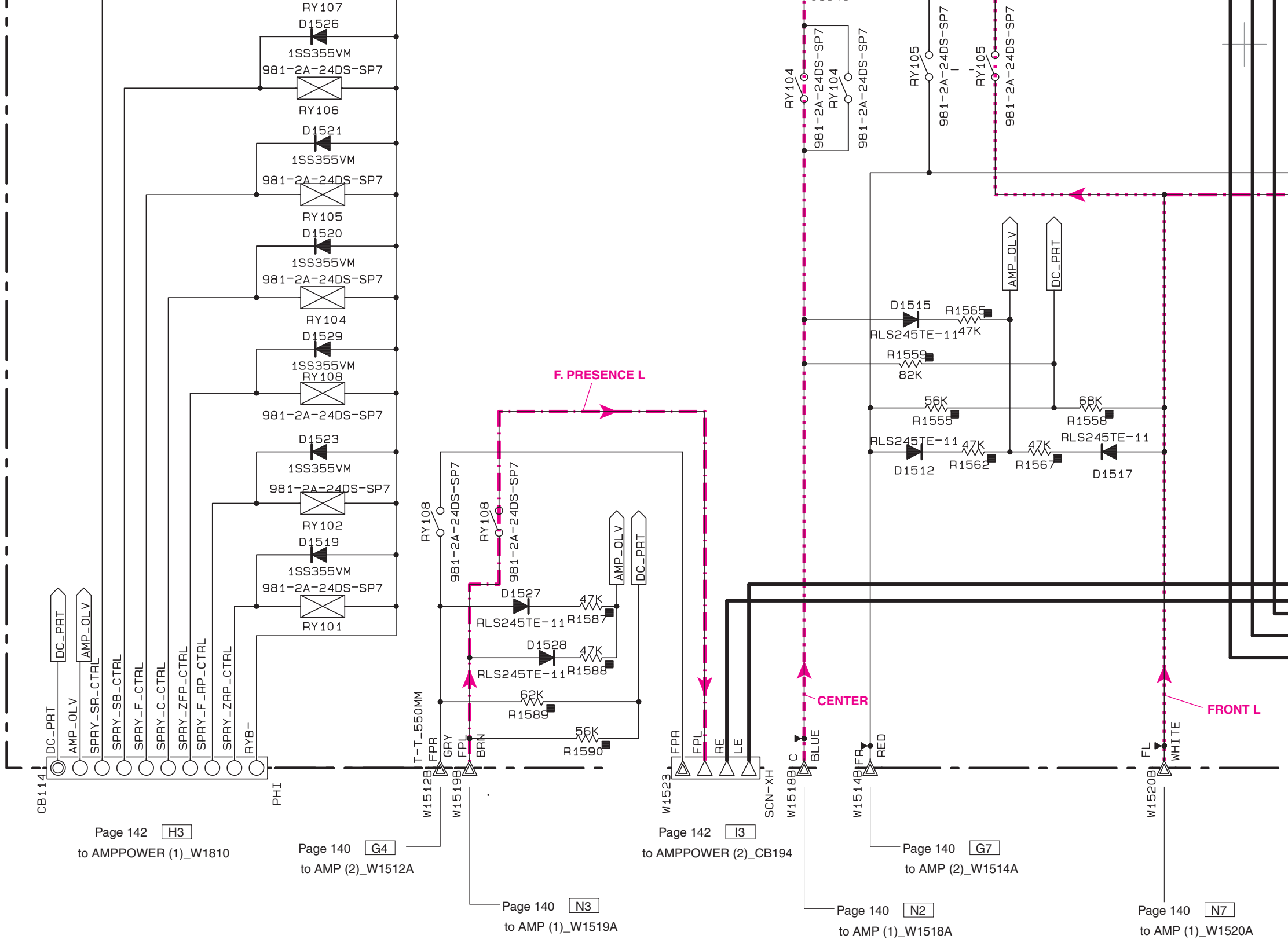
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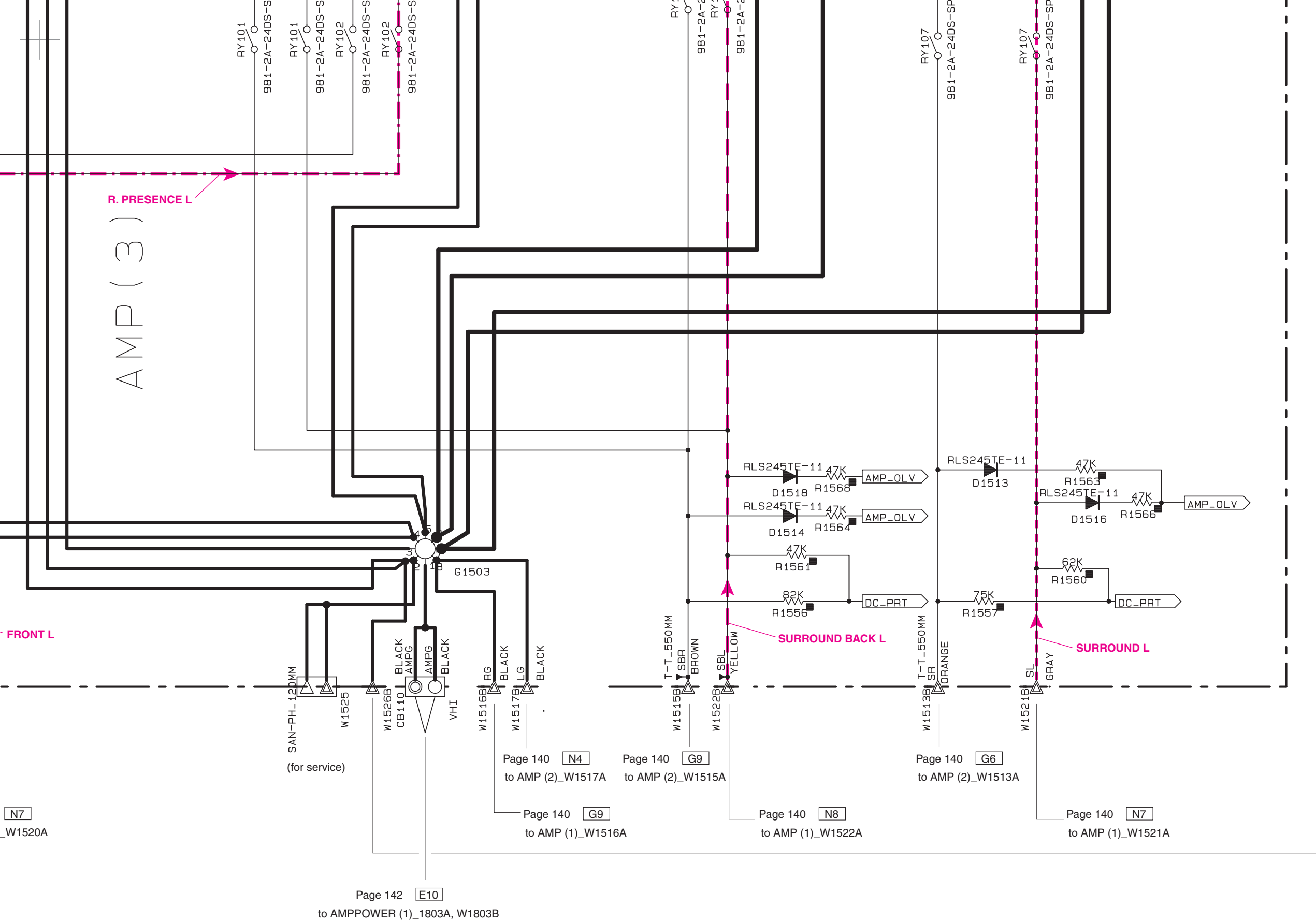
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★ Components having special characteristics are marked $\triangle$ and must be replaced with parts having specifications equal to those originally installed.
★ Schematic diagram is subject to change without notice.

● $\triangle$ 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あります。

A	B
C	D

A	B
C	D

AMPPPOWER

RX-A3010/RX-V3071

AMPPPOWER

Page 140 G10
to AMP (2)_W1003

Page 140 N10
to AMP (1)_W1005

Page 132 I9
to DIGITAL1 (1)_CB95

(for service)

Page 145 B4
to VIDEO (1)_CB331

AMPPPOWER (1)

Page 141
to AMP

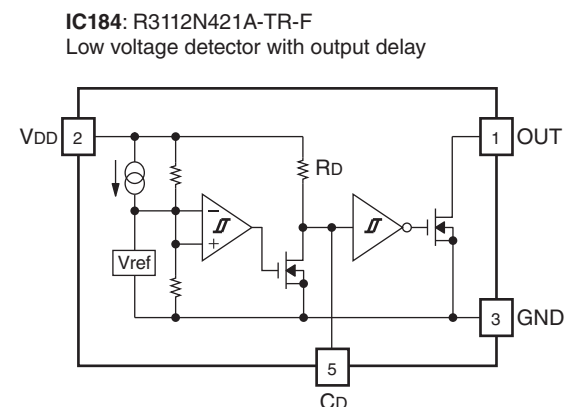
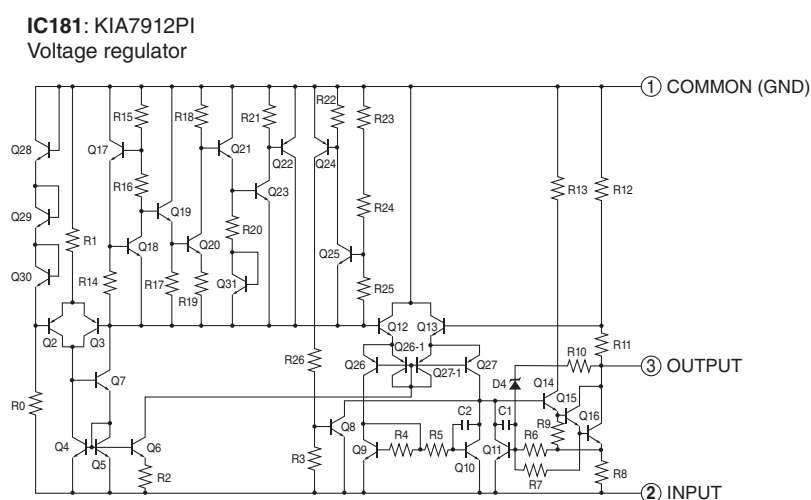
Pa
to

C1822-1828 on AMPPOWER (1) P.C.B.

AMPPOWER(1)P.C.B. の C1822 ~ 1828



Page 141 E9
to AMP (3) W1523



	s208	F181	X	X	X	HB75060 B-3A250V	X	X	X	X	X
	s209	CB198 CB199	X	X	X	WN10300 TP00351-31	X	X	X	X	X
	s210	CR201	X	X	X	V937790	X	X	X	X	X

AMPPower (3) R model

AMP_POWER(1)

(for service)

Page 140 N2
to AMP (1)_CB111

Page 140 M6
to AMP (1)_ST101

Page 140 M6
to AMP (1)_ST102

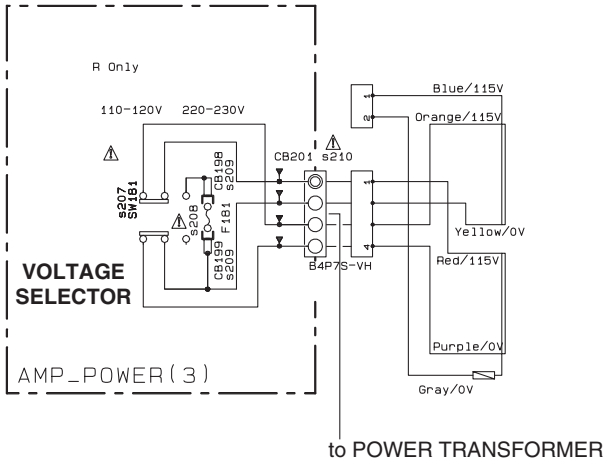
Page 141 I9
to AMP (3)_CB110

Page 140 G7
to AMP (2)_ST104

Page 140 G7
to AMP (2)_ST103

A	B
C	D

AMPPOWER (3) R model



RESISTOR	
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
□	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
▨	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊗	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR	
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
●	CERAMIC TUBULAR CAPACITOR
◎	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
①	MICA CAPACITOR
⊕	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR
Ⓢ	POLYPHENYLENE SULFIDE FILM CAPACITOR

NOTICE (model)

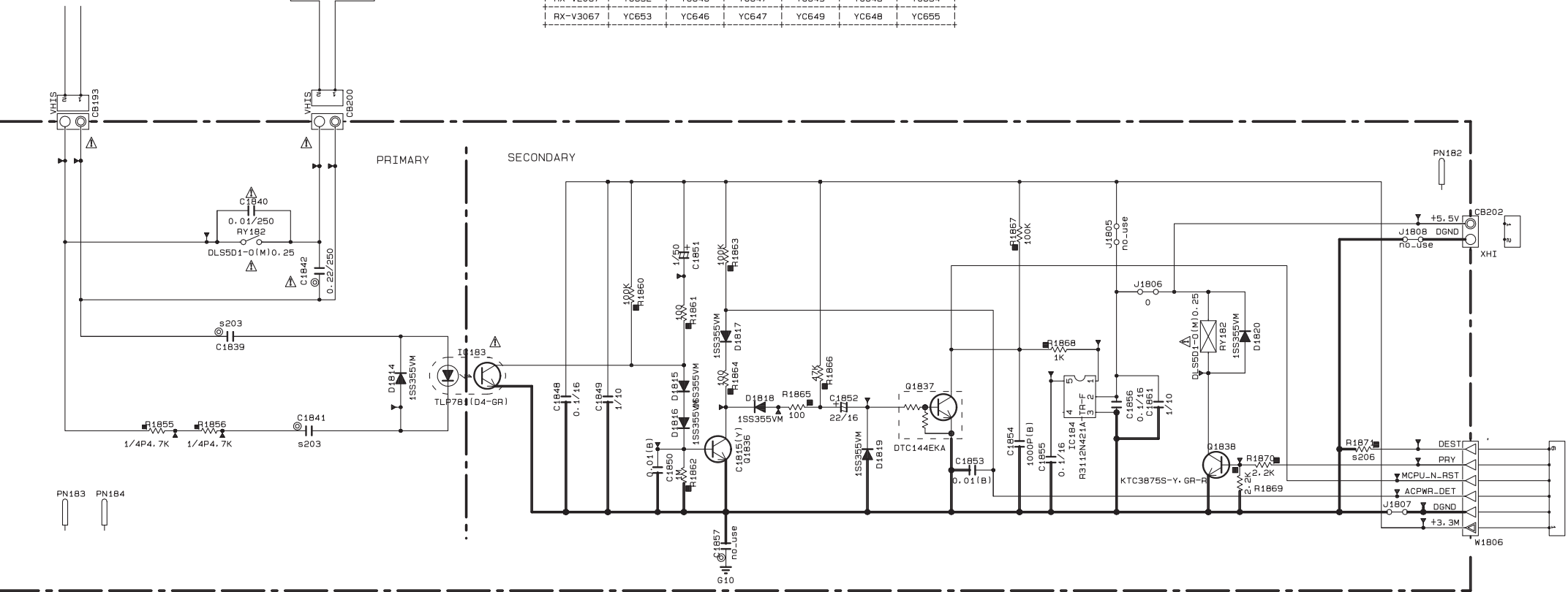
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(C)..... CANADA
(R)..... GENERAL
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(K)..... KOREA
(A)..... AUSTRALIA
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(E)..... SOUTH EUROPE
(V)..... TAIWAN
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

to POWER TRANSFORMER

Page 143

B4

to POWER_W2004A, W2004B



Page 143 M4

to POWER_W2005

Page135 B7

to DIGITAL1 (1)_CB942

- ★ 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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RX-A3010/RX-V3071

A	B
C	D

AMPPOWER

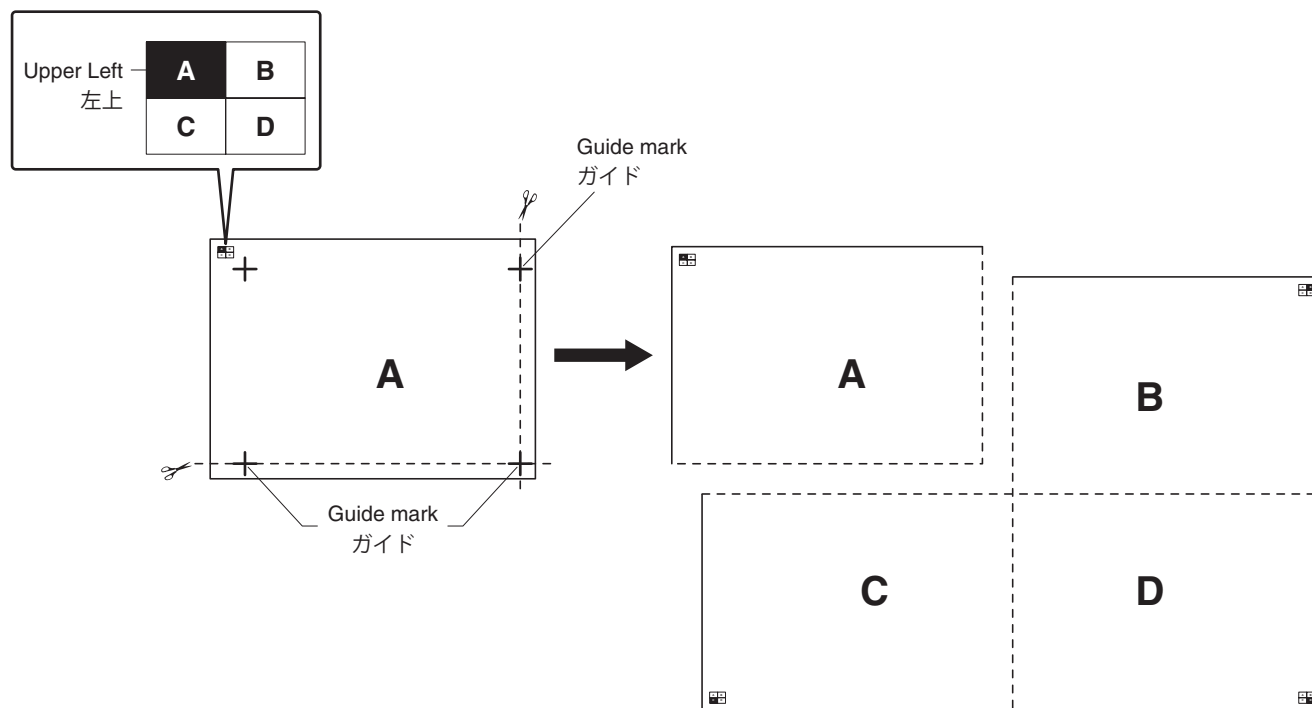
AV RECEIVER RX-A3010/RX-V3071

RX-A3010/RX-V3071

SCHEMATIC DIAGRAMS

Each schematic diagram is divided into equal pieces to enable printout by conventional printers.
Cut along the guide marks and put them together.
Overall location of each schematic diagram is described by the following symbol.

各回路図は、一般的に使用されているプリンタで印刷できる大きさに分割されています。
印刷した各回路図を、ガイドに沿って切って貼り合わせてください。
各回路図の貼り合わせ位置は以下の記号で表しています。



■ CONTENTS

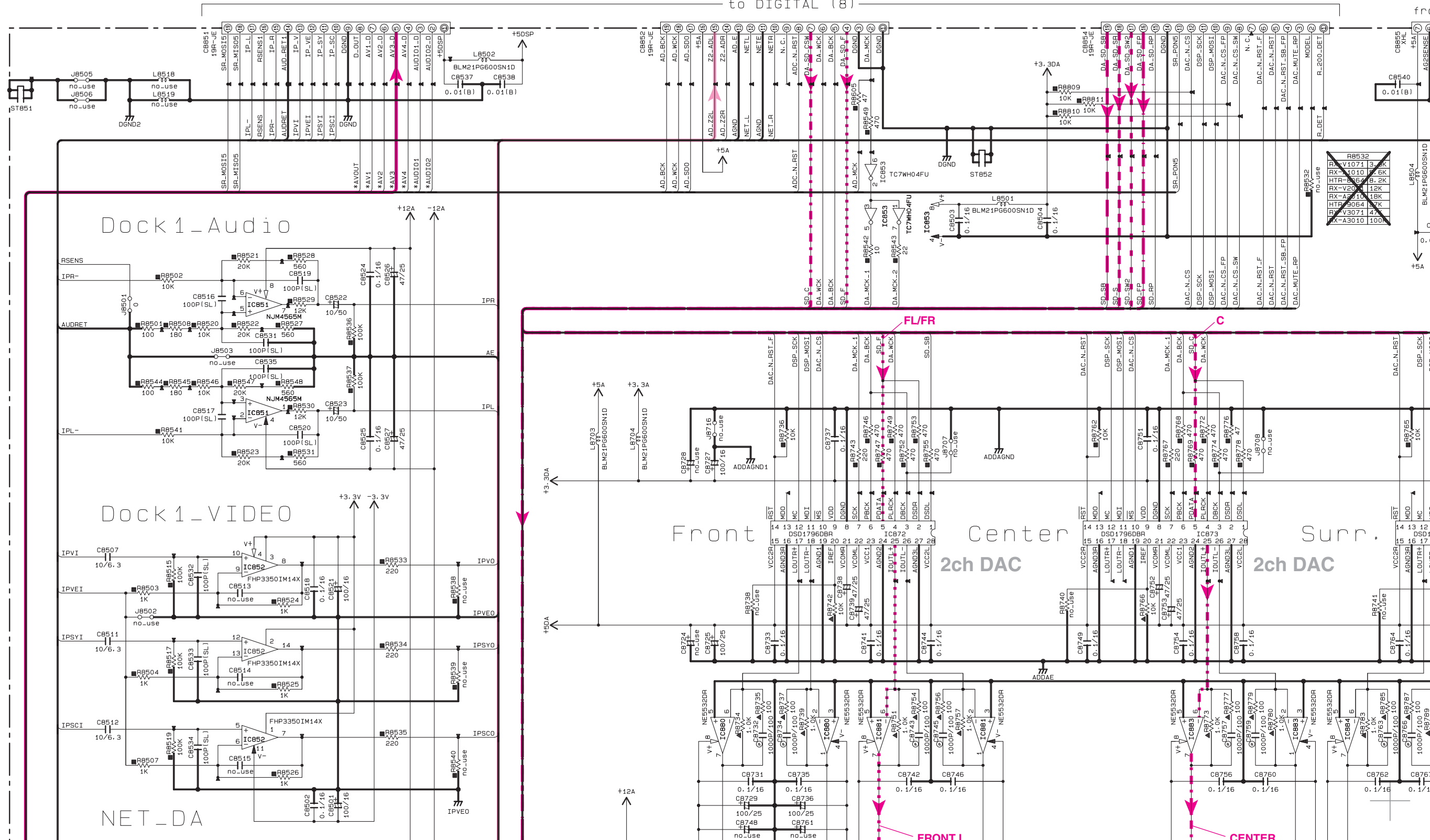
SCHEMATIC DIAGRAMS

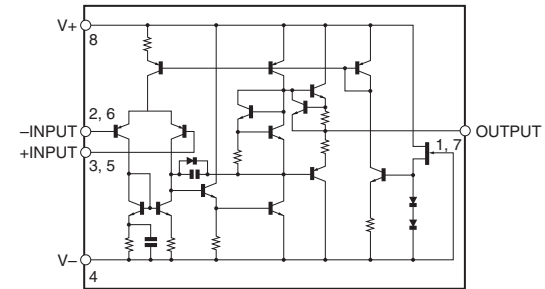
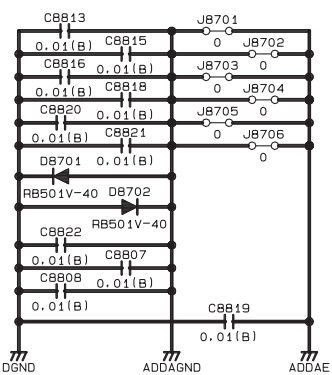
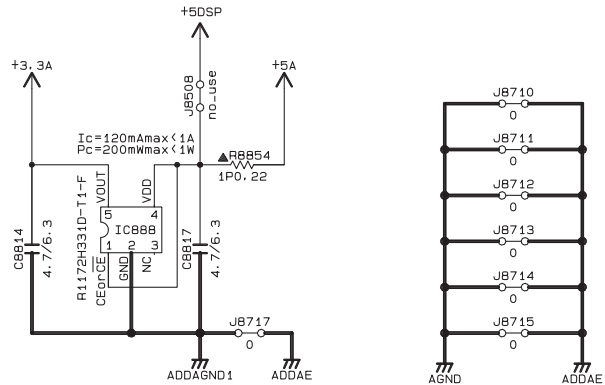
DIGITAL1 Board	127-135
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DAC

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AMPPPO

fre



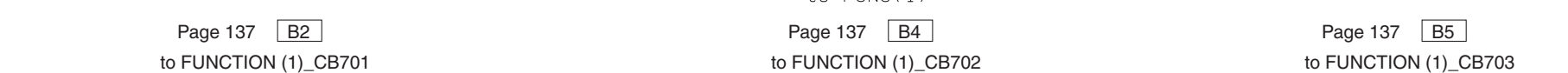
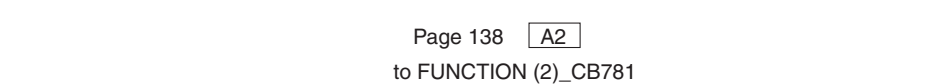


The block diagram illustrates the internal architecture of the AD9959 audio codec. It shows the flow of data from digital inputs through various processing blocks to the final analog outputs.

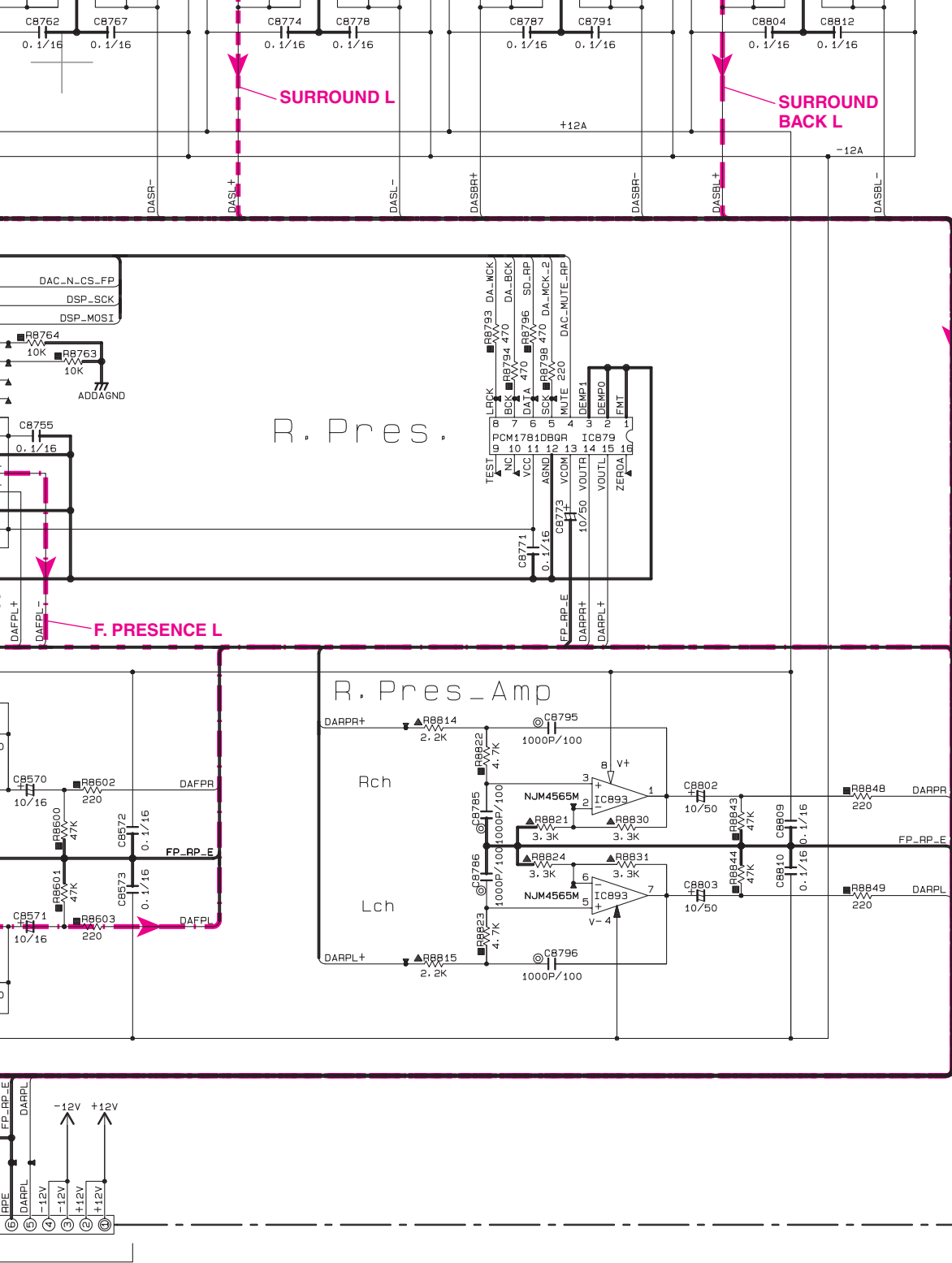
- Digital Inputs:** BCK, LRCK, and DATA are inputs to the Audio Serial Port. FMT, MS (DEMP0), MC (DEMP1), MD (MUTE), and (TEST) are inputs to the Serial Control Port. SCK is an input to the System Clock Manager.
- Control and Clocking:** The Serial Control Port and System Clock Manager are interconnected. The System Clock Manager provides a System Clock to the 4 x 8 Oversampling Digital Filter and the Zero Detect block.
- Signal Processing:** The Audio Serial Port outputs to the 4 x 8 Oversampling Digital Filter With Function Control. This filter's output goes to the Enhanced Multilevel Delta-Sigma Modulator.
- Conversion and Filtering:** The modulator's output is converted by two DACs (Digital-to-Analog Converters). Each DAC output passes through an Output Amp and Low-Pass Filter.
- Outputs and Power:** The filtered signals are the left channel output (V_{OUTL}) and the right channel output (V_{OUTR}). A common-mode output (V_{COM}) is also indicated. The Zero Detect block provides status signals: ZEROLNA(1), ZERORNA(1), and ZEROA(1). The Power Supply block is connected to V_{CC} and AGND.

The block diagram illustrates the internal architecture of the ADXL345 digital accelerometer. It features two parallel signal paths for X and Y axes. Each path starts with an input pin (AINL for X, AINR for Y) connected to a $\Delta\Sigma$ Modulator. The output of each modulator goes through a Decimation Filter. A Voltage Reference block provides a common reference for both modulators. The filtered signals are then sent to a Serial I/O Interface. Control and clock signals are managed by a Clock Divider and a Serial I/O Interface. The diagram also shows various power and ground pins (VA, AGND, VD, DGND, MCLK, CKS2, CKS1, CKS0, PDN, DIF) and status pins (LCK, SCLK, SDTO).

The block diagram illustrates the internal architecture of the AD9850. It begins with an **Audio Data Input I/F** block that receives external signals: **DBCK**, **DSDL**, **OSDR**, **PLRCK**, **PBCK**, **PDATA**, and **RST**. The output of this block feeds into an **x8 Oversampling Digital Filter and Modulator**, which then connects to an **Advanced Segment DAC Modulator**. The output of the DAC modulator is sent to the **Current Segment DAC**, which produces two differential outputs, **V_{OUTL-}** and **V_{OUTL+}**. These signals are then processed by a **Bias and V_{ref}** block, which also provides reference voltages **V_{COML-}**, **V_{REF}**, and **V_{COMR}**. Finally, the signals pass through an **I/V and Filter** stage, represented by two comparators, to produce the final **V_{OUTL-}** and **V_{OUTL+}** outputs.



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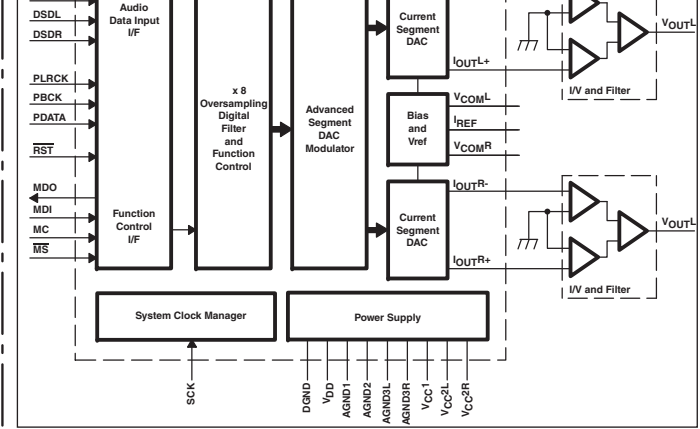
REMARKS	PARTS NAME
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	CARBON FILM RESISTOR (P=10)
	METAL OXIDE FILM RESISTOR
	METAL FILM RESISTOR
	METAL PLATE RESISTOR
	FIRE PROOF CARBON FILM RESISTOR
	CEMENT MOLDED RESISTOR
	SEMI VARIABLE RESISTOR
	CHIP RESISTOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	
	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	
	CERAMIC TUBULAR CAPACITOR	
	POLYESTER FILM CAPACITOR	
	POLYSTYRENE FILM CAPACITOR	
	MICA CAPACITOR	
	POLYPROPYLENE FILM CAPACITOR	
	SEMICONDUCTIVE CERAMIC CAPACITOR	
	POLYPHENYLENE SULFIDE FILM CAPACITOR	

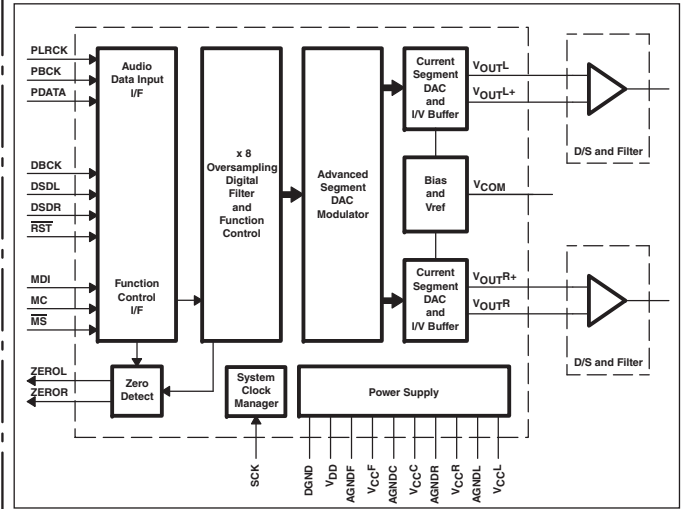
NOTICE (model)

(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
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

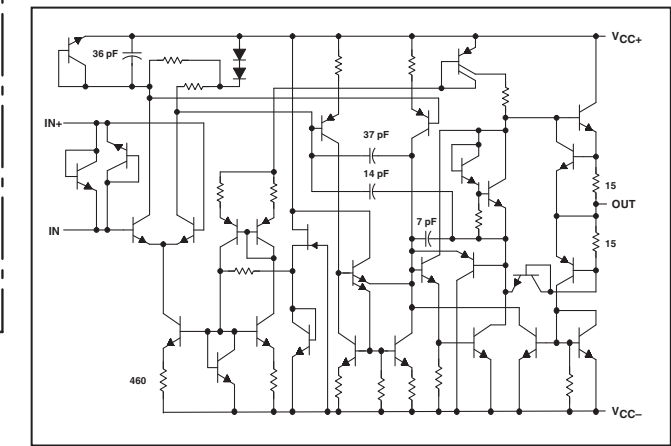
WY50590 : JKBGEFL
WY50600 : UCRTA
R, C, D, L, J : 8501-8999
other : 851-899



IC876, 877: DSD1791DBR
24-bit, 192 kHz sampling, advanced segment,
audio stereo digital-to-analog converter

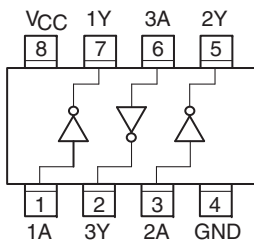


IC880, 881, 883-887: NE5532DR
Dual low-noise operational amplifiers

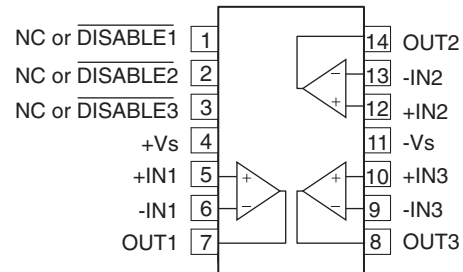


35
1)_CB703

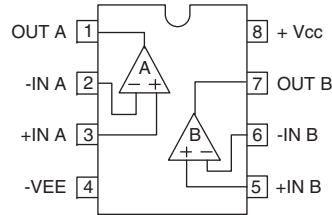
IC853: TC7WH04FU
Triple inverter



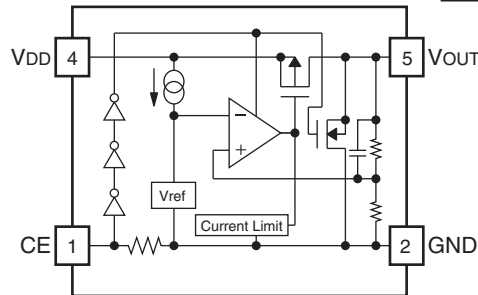
IC852: FHP3350IM14X
Triple voltage feedback amplifier



IC856, 857: LM833MX
Operational amplifier



IC888: R1172H331D-T1-F
Voltage regulator



Pin No.	Symbol	Description
1	CE	Chip Enable Pin
2	GND	Ground Pin
3	NC	No Connection
4	VDD	Input Pin
5	VOUT	Output Pin of Voltage Regulator

RX-A3010/RX-V3071

A	B
C	D

DAC

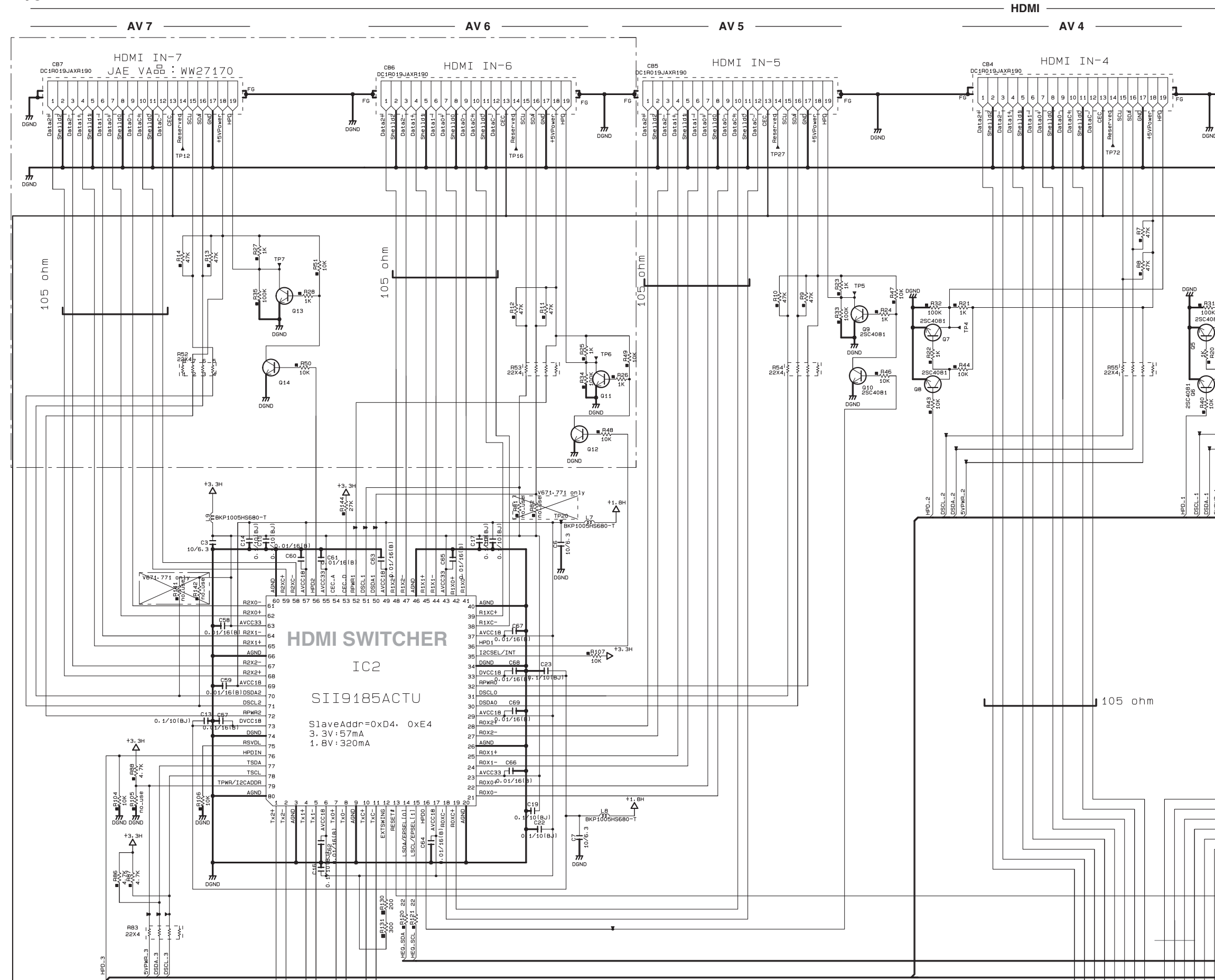
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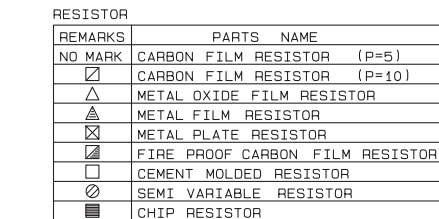
2

3

4

5





CAPACITOR		
REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	7
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	1
⊙	CERAMIC TUBULAR CAPACITOR	
⊗	POLYESTER FILM CAPACITOR	
⊙	POLYSTYRENE FILM CAPACITOR	
⊖	MICA CAPACITOR	
⊕	POLYPROPYLENE FILM CAPACITOR	
⊗	SEMICONDUCTIVE CERAMIC CAPACITOR	

NOTICE (model)

(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
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

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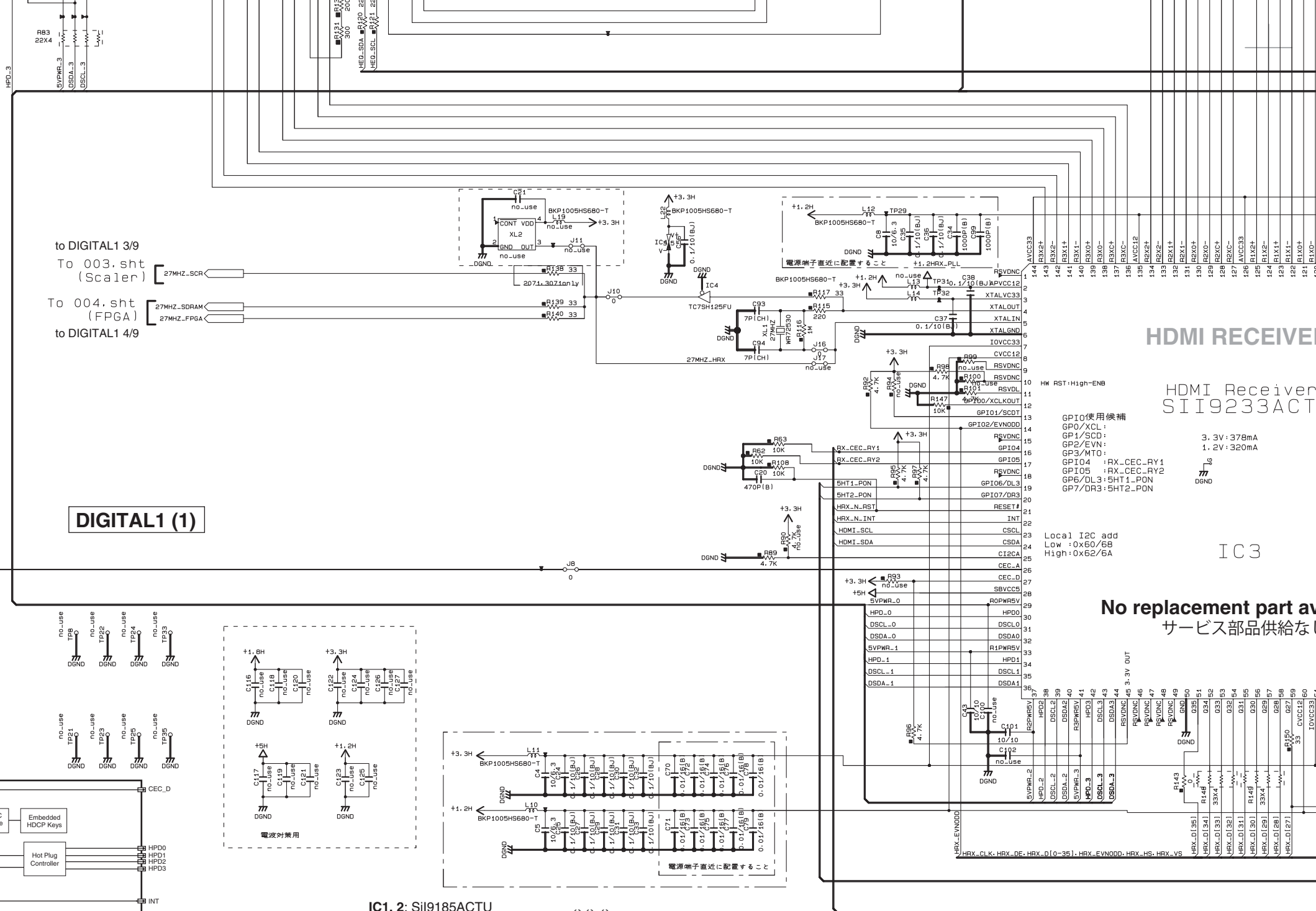
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10

RX-A3010/RX-V3071

A	B
C	D

DIGITAL1 1/9



HDMI RECEIVER

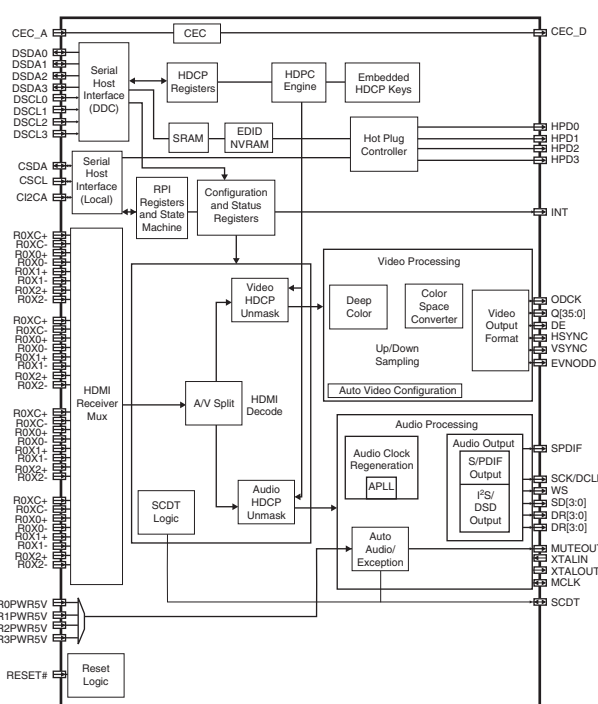
HDMI Receiver
SII9233ACT

IC3

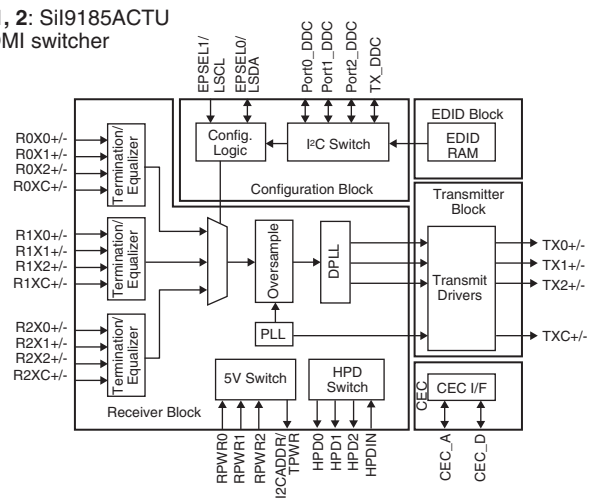
No replacement part av

サービス部品供給なし

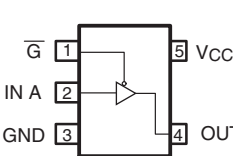
IC3: Sii9233ACTU
HDMI receiver



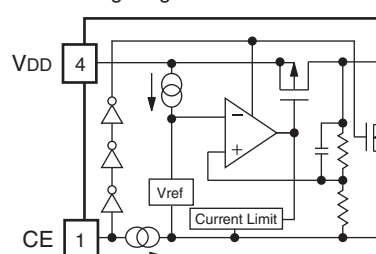
IC1, 2: Sii9185ACTU
HDMI switcher



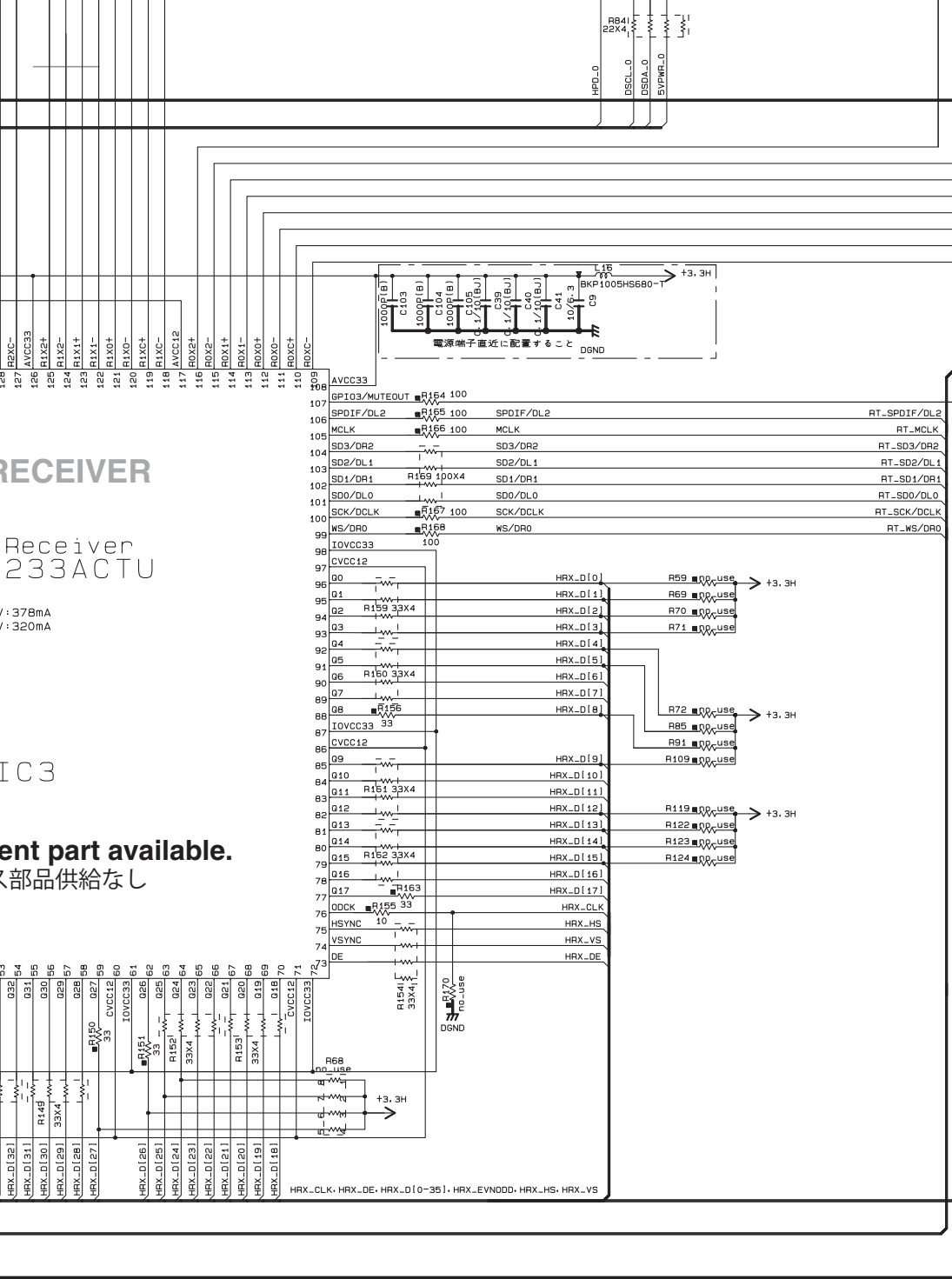
IC4: TC7SH125FU
Bus buffer



IC5: RP130Q121D-TR-F
Voltage regulator



Pin No.	Symbol	Description
1	CE	Chip Enable ("H" Active)
2	GND	Ground Pin
3	Vout	Output Pin
4	Vdd	Input Pin



RECEIVER

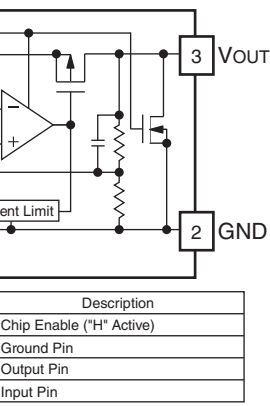
Receiver
233ACTU

V: 378mA
V: 320mA

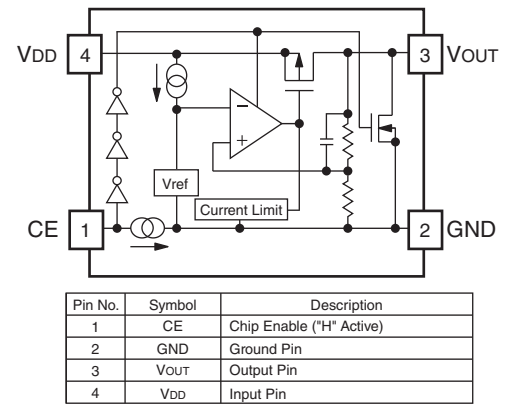
IC3

ent part available.
部品供給なし

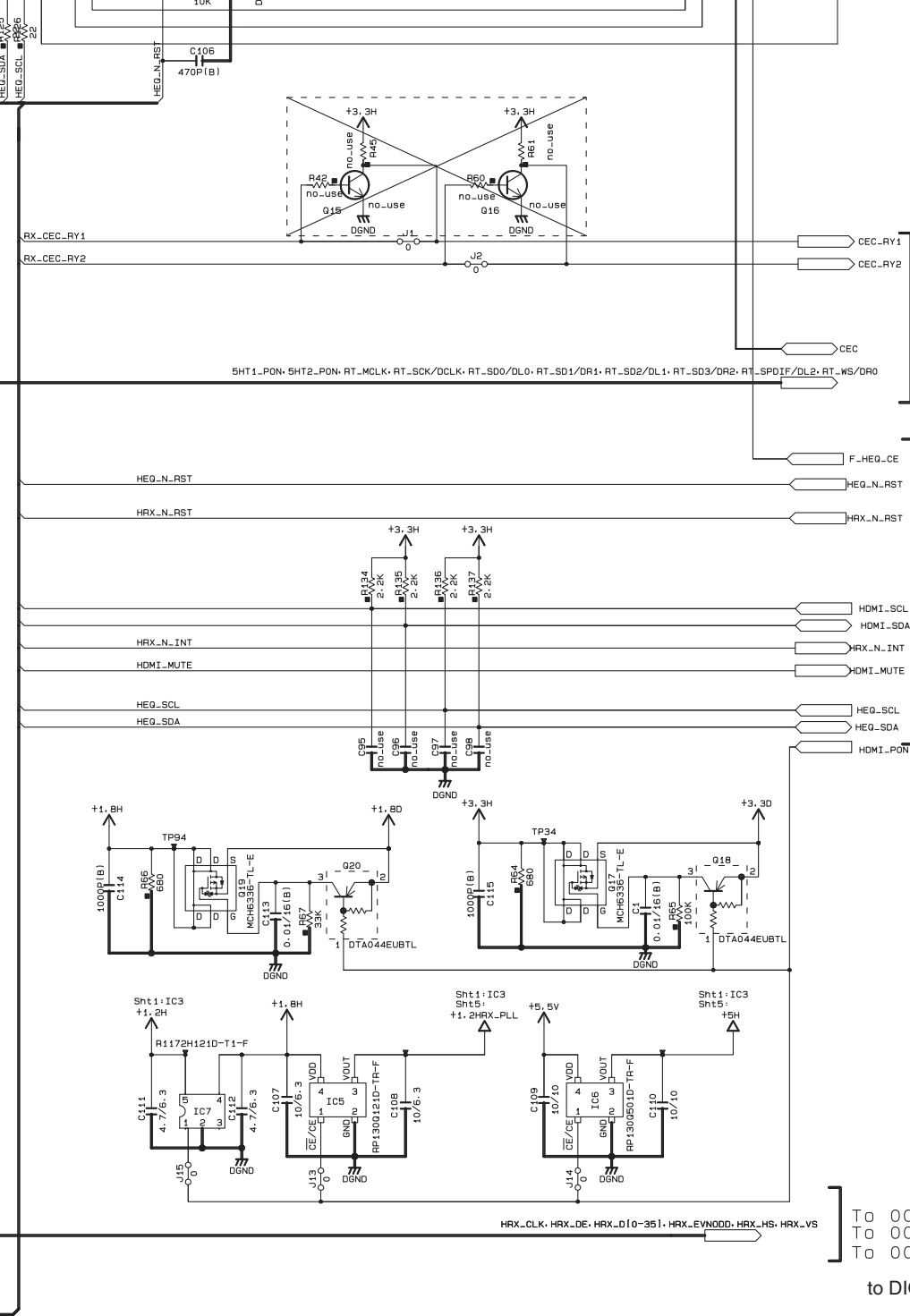
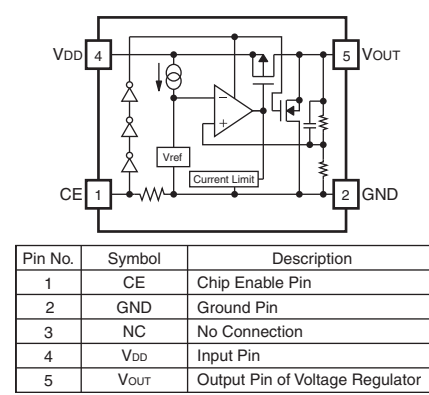
D-TR-F



IC6: RP130Q501D-TR-F
Voltage regulator



IC7: R1172H121D-T1-F
CMOS-based positive-voltage regulator IC



Sheet 1: HDMI Rx
IC/CB/XL: 1~300
OTHER: 1~300

- ★ 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.
- Δ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あります。

to DIGITAL1 5/9

To 005.sht
(HDMI-Tx)

To 006.sht
(μ-com)

to DIGITAL1 6/9

To 002.sht (VDEC/ENC)
To 003.sht (SCALER)
To 004.sht (FPGA)

to DIGITAL1 2/9, 3/9, 4/9

A	B
C	D

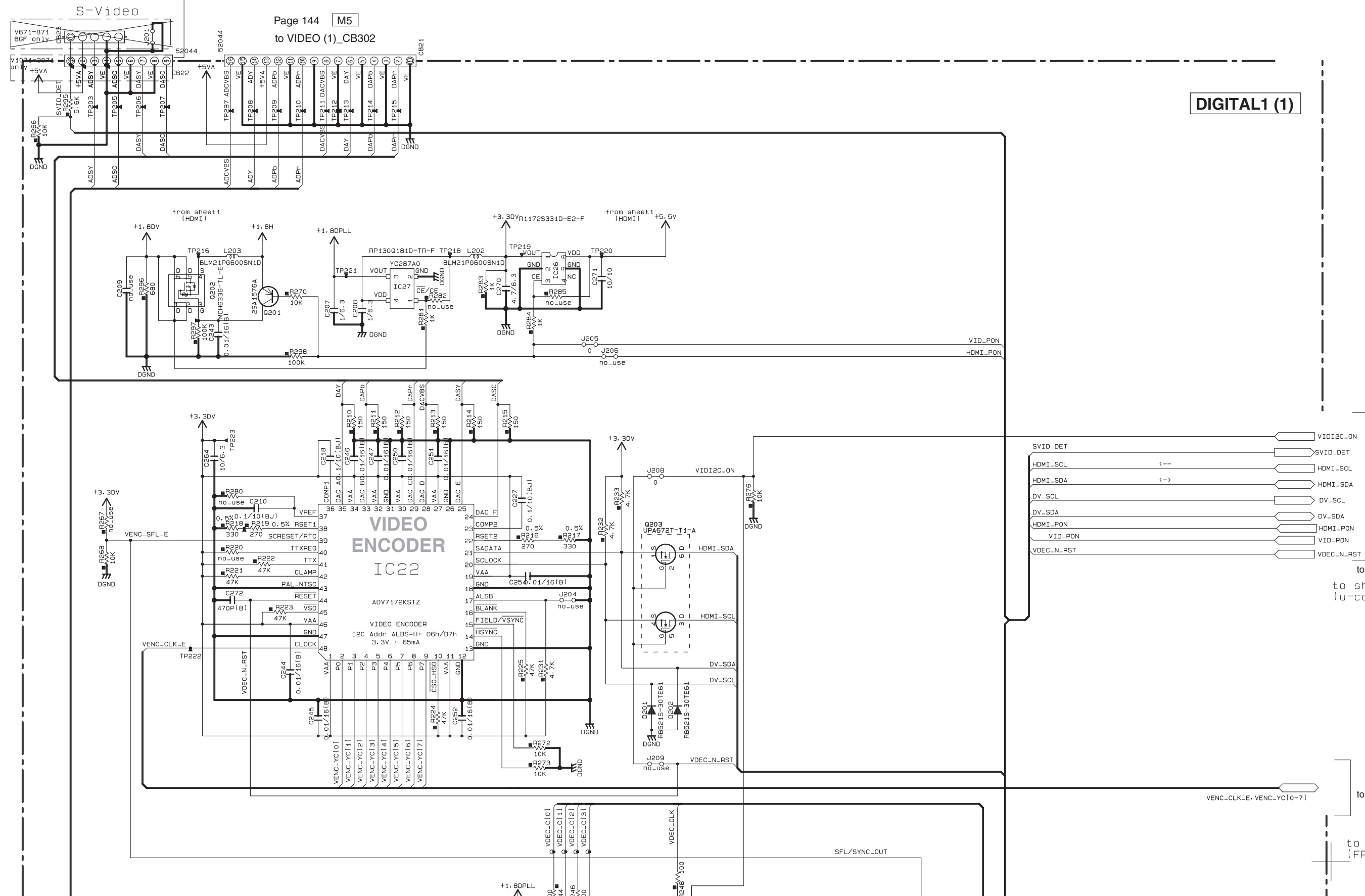
2

3

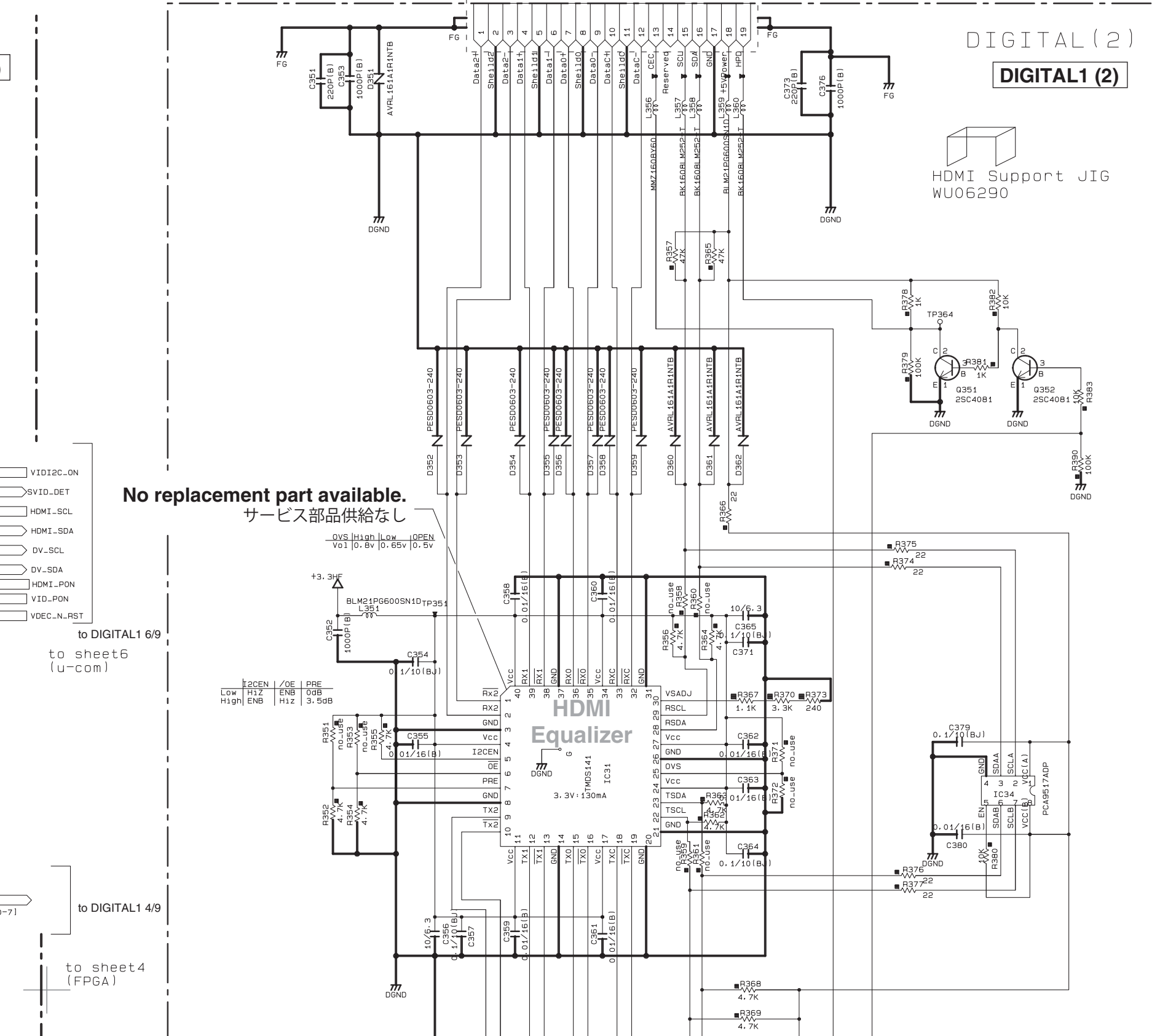
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5

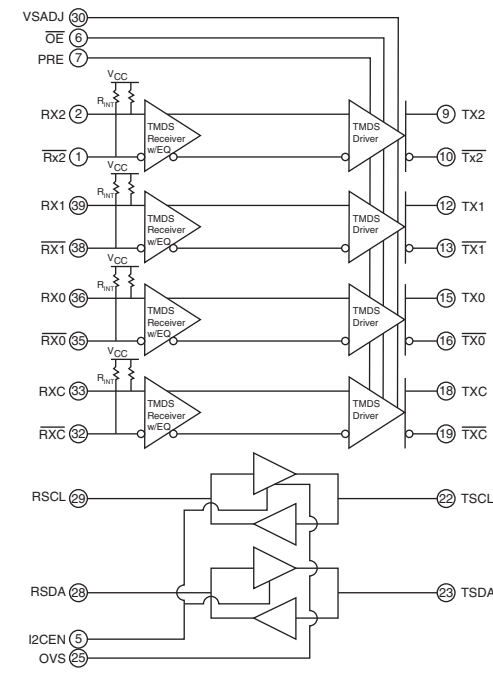
DIGITAL1 (1)



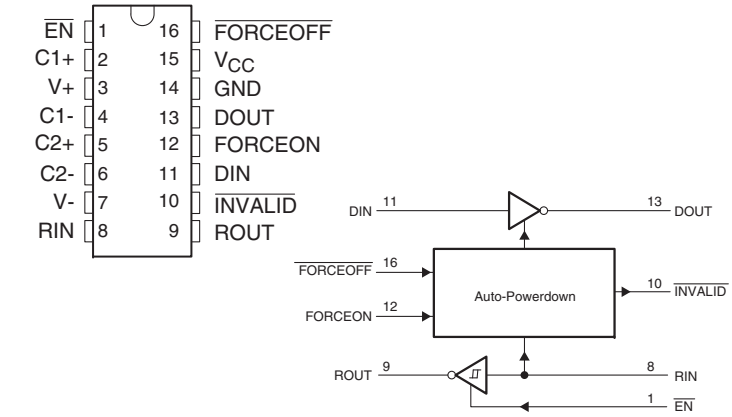
A	B
C	D



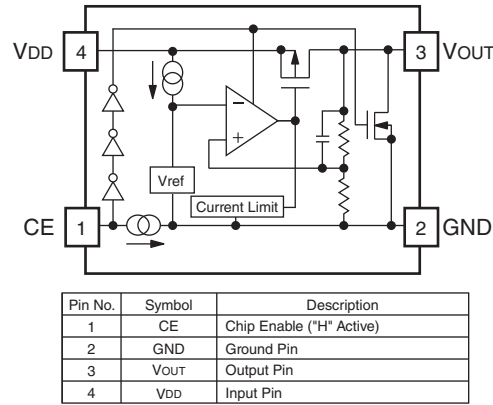
IC31: TMDS141RHAR
HDMI switch



IC32: TRS3221ECPWR
3 V to 5.5 V single channel RS-232 line driver/receiver
with ±15 kV IEC ESD protection



IC33: RP130Q331D-TR-F
Voltage regulator



6

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10

Sheet2:VDEC/VENC

IC/CB/XL:20-29
OHTER:200-350
TP:200-350

★ 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.

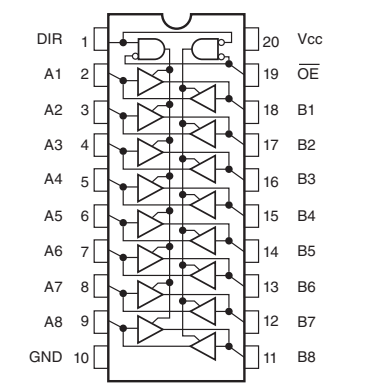
● Δ印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
● 本回路図は標準回路図です。改良のため予告なく変更することがあります。

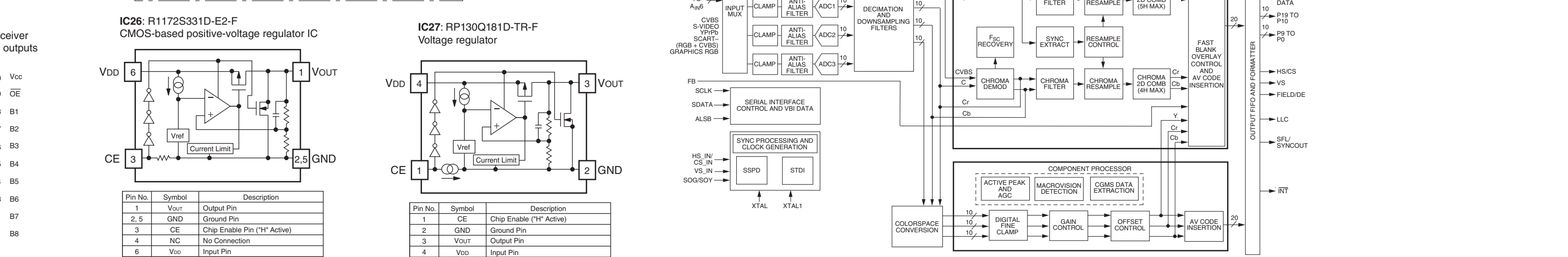
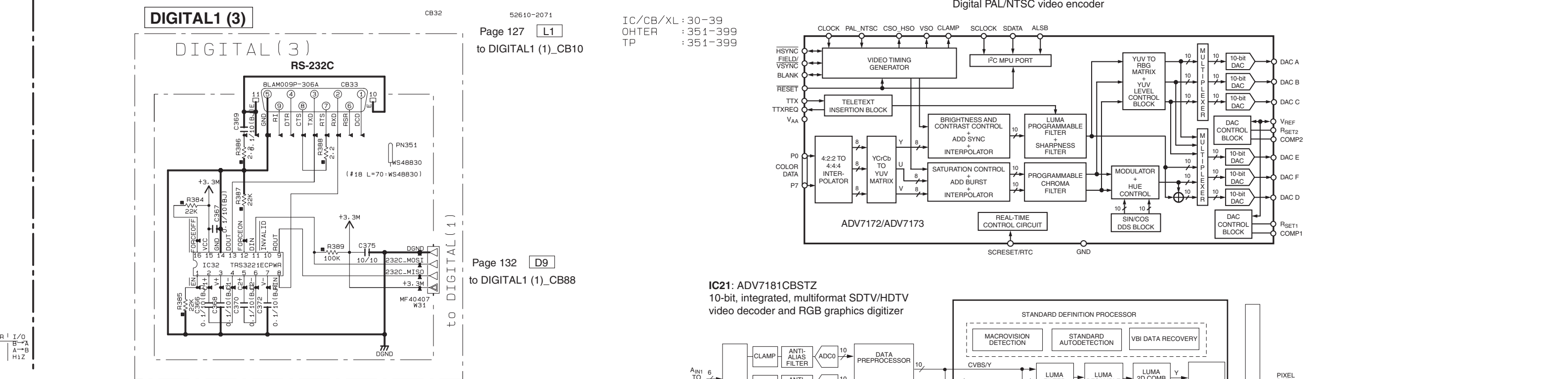
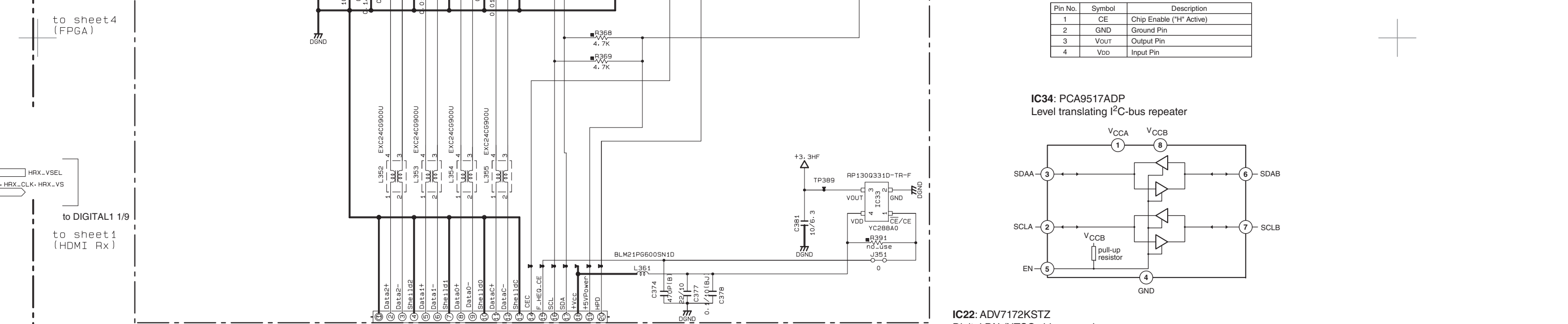
CAPACITOR		
REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	⌘
⊗	TANTALUM CAPACITOR	⌘
NO MARK	CERAMIC CAPACITOR	
●	CERAMIC TUBULAR CAPACITOR	⌘
◎	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
①	MICA CAPACITOR	
Ⓟ	POLYPROPYLENE FILM CAPACITOR	
●	SEMICONDUCTIVE CERAMIC CAPACITOR	

RESISTOR		
REMARKS	PARTS NAME	
NO MARK	CARBON FILM RESISTOR (P=5)	
⊠	CARBON FILM RESISTOR (P=10)	
△	METAL OXIDE FILM RESISTOR	
▲	METAL FILM RESISTOR	
▢	METAL PLATE RESISTOR	
▣	FIRE PROOF CARBON FILM RESISTOR	
□	CEMENT MOLDED RESISTOR	
⊗	SEMI VARIABLE RESISTOR	
■	CHIP RESISTOR	

NOTICE (model1)
(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
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

IC23-25: TC74LCX245FT
Low voltage octal bus transceiver with 5-V tolerant inputs and outputs



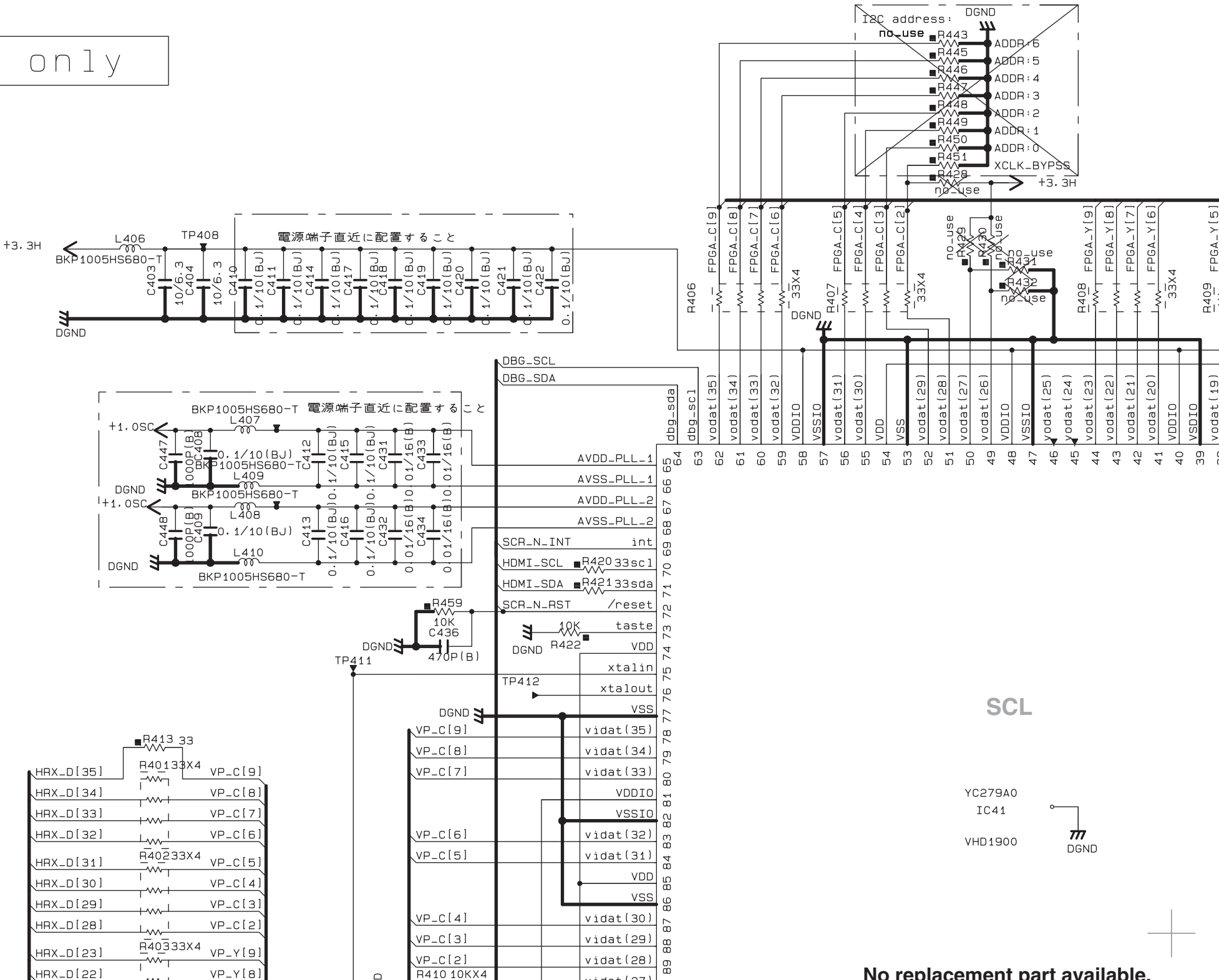


A	B
C	D

DIGITAL1 3/9

DIGITAL1 (1)

2071, 3071 only



SCL

YC279A0
IC41
VHD1900

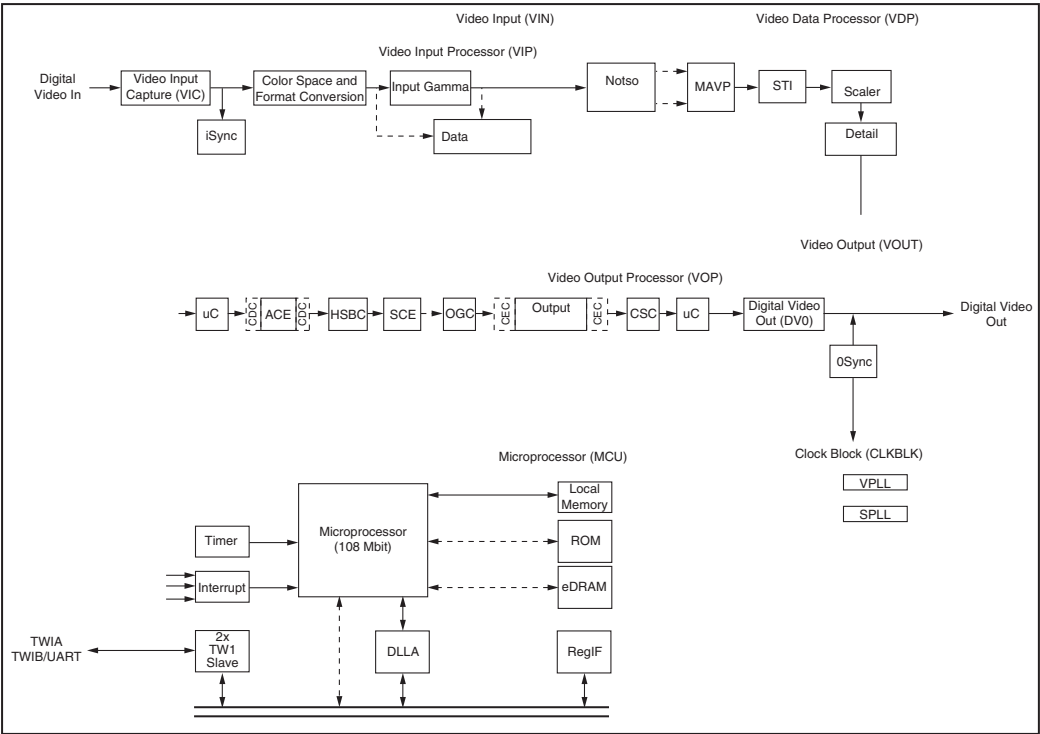


No replacement part available.

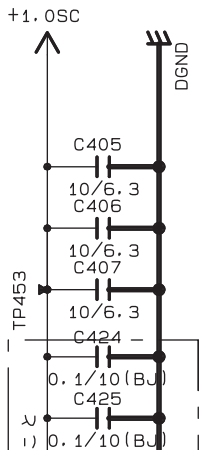
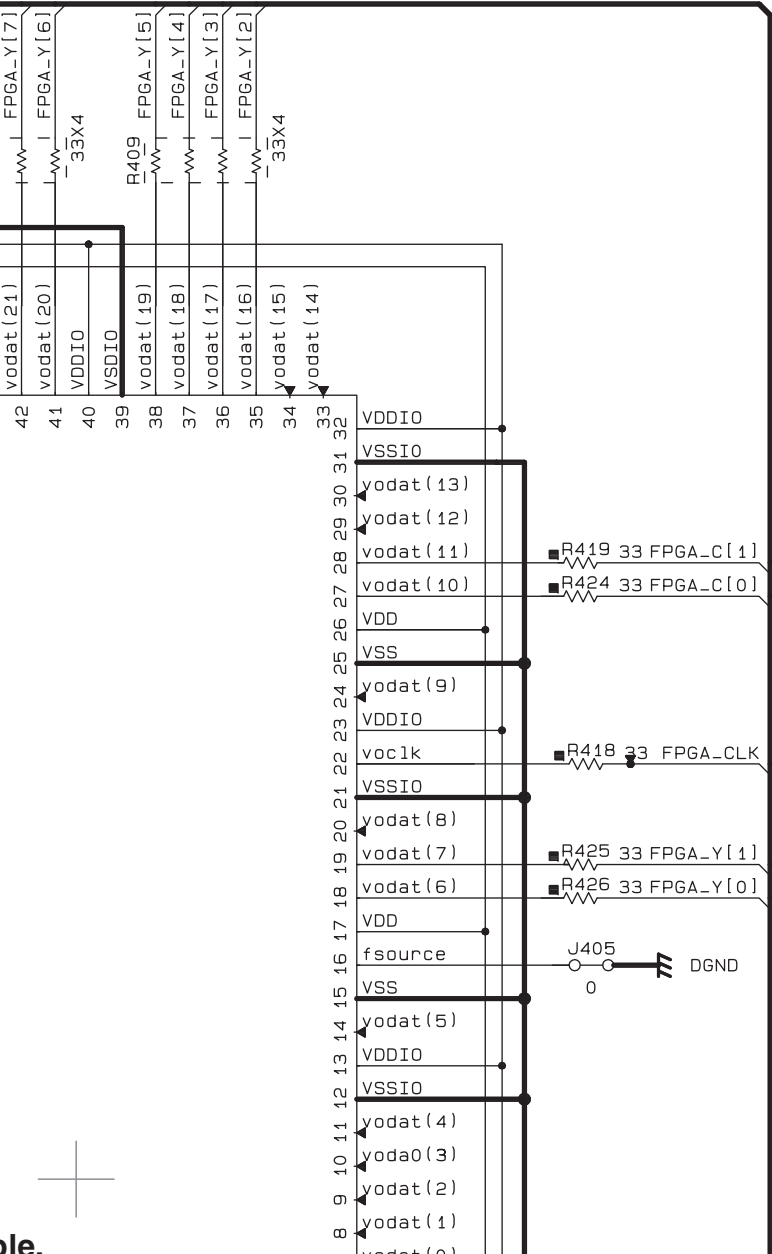
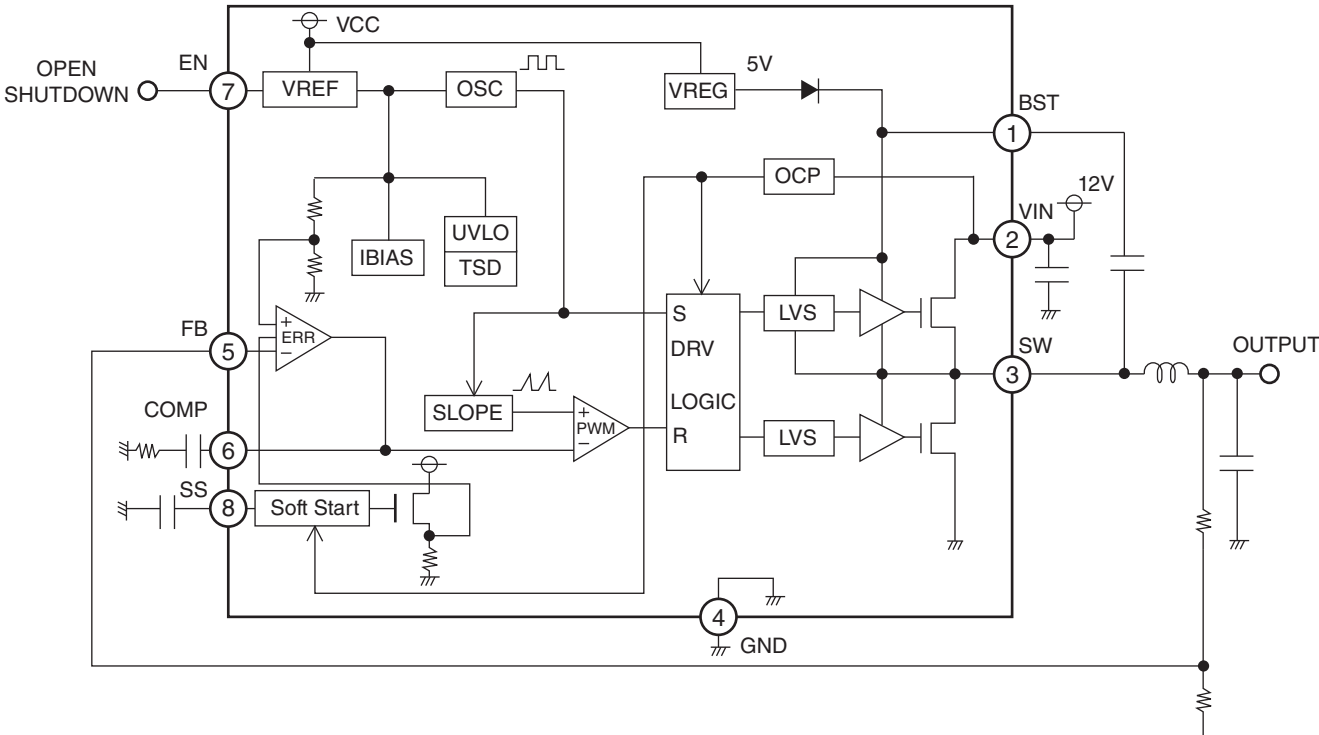
A	B
C	D

RX-A3010/RX-V3071

IC41: VHD1900EVG
Video processor



IC42: BD9329AEFJ-E2
1ch step-down DC/DC converter



A	B
C	D

6

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9

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(HDMI_Rx)
To 001.sht

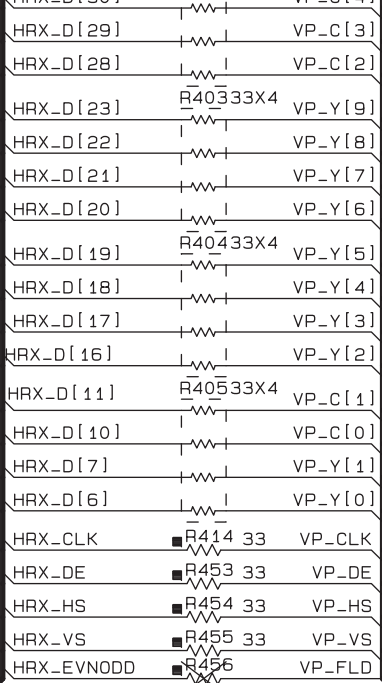
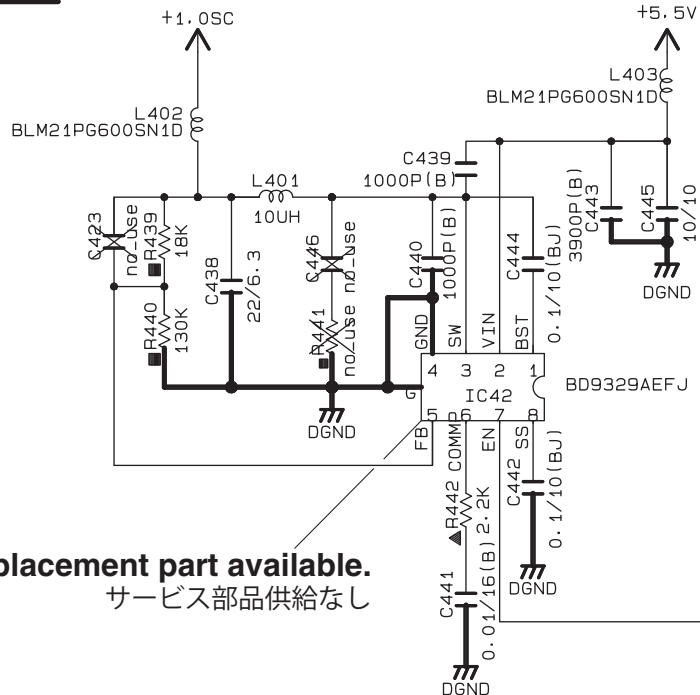
to DIGITAL1 1/9

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

SCR_PON

HDMI_PON

HRX_DE, HRX_D[0-35], HRX_HS, HRX_CLK, HRX_VS, HRX_EVNODD



DGND

DGND

DGND

DGND

DGND

DGND

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

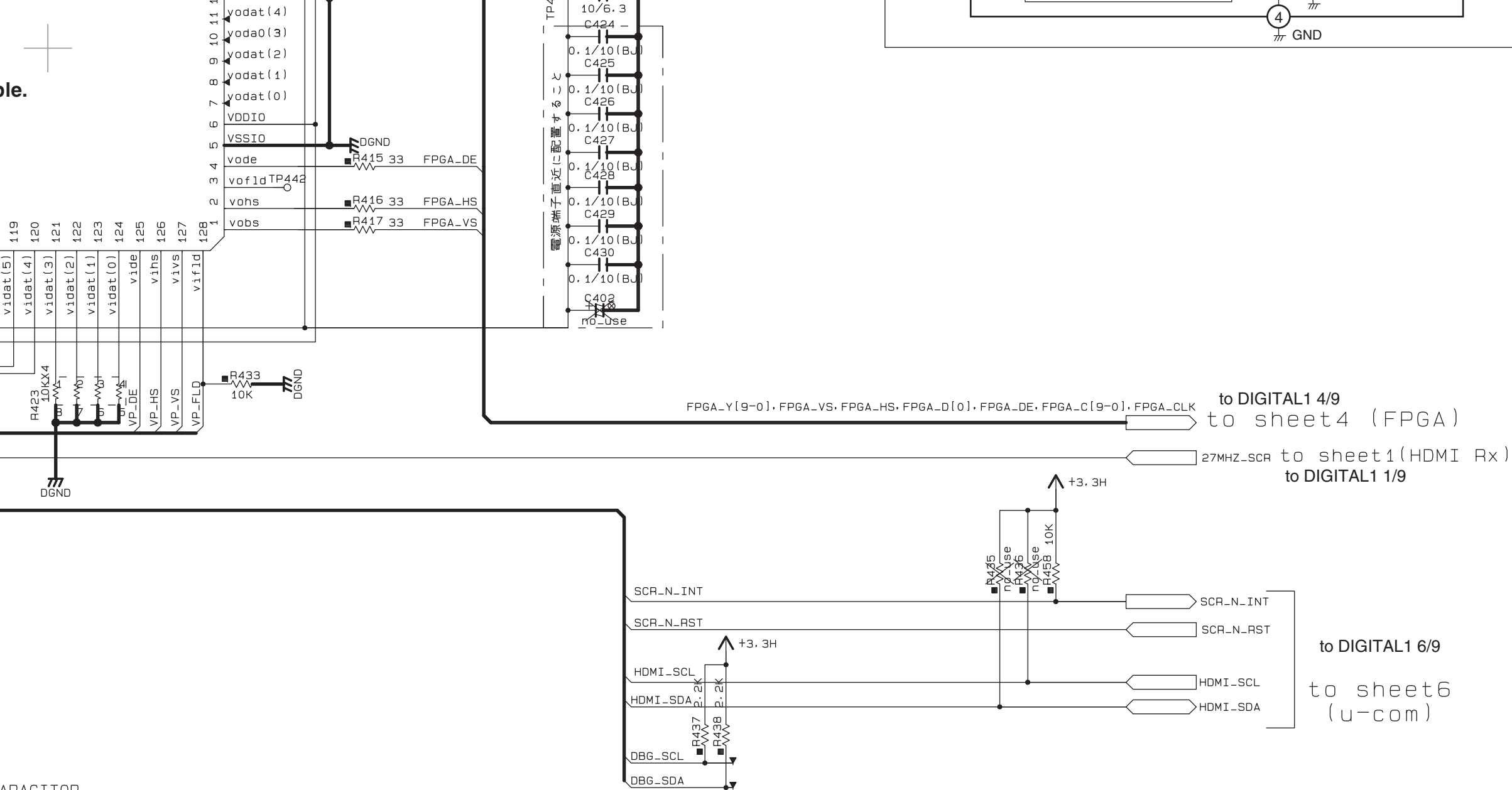
RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
□	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊗	METAL PLATE RESISTOR
▨	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME
NO MARK	EL
⊗	TA
NO MARK	CE
●	CE
⊙	PC
○	PC
①	MI
Ⓟ	PC
⊕	SE

le.



CAPACITOR		
REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	H
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	H
●	CERAMIC TUBULAR CAPACITOR	
◎	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
⊕	MICA CAPACITOR	
Ⓟ	POLYPROPYLENE FILM CAPACITOR	
⊗	SEMICONDUCTIVE CERAMIC CAPACITOR	

Sheet 3: Scaler

IC/CB/XL : 40-
OHTER : 400-499
TP : 400-499

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- 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あります。

A	B
C	D

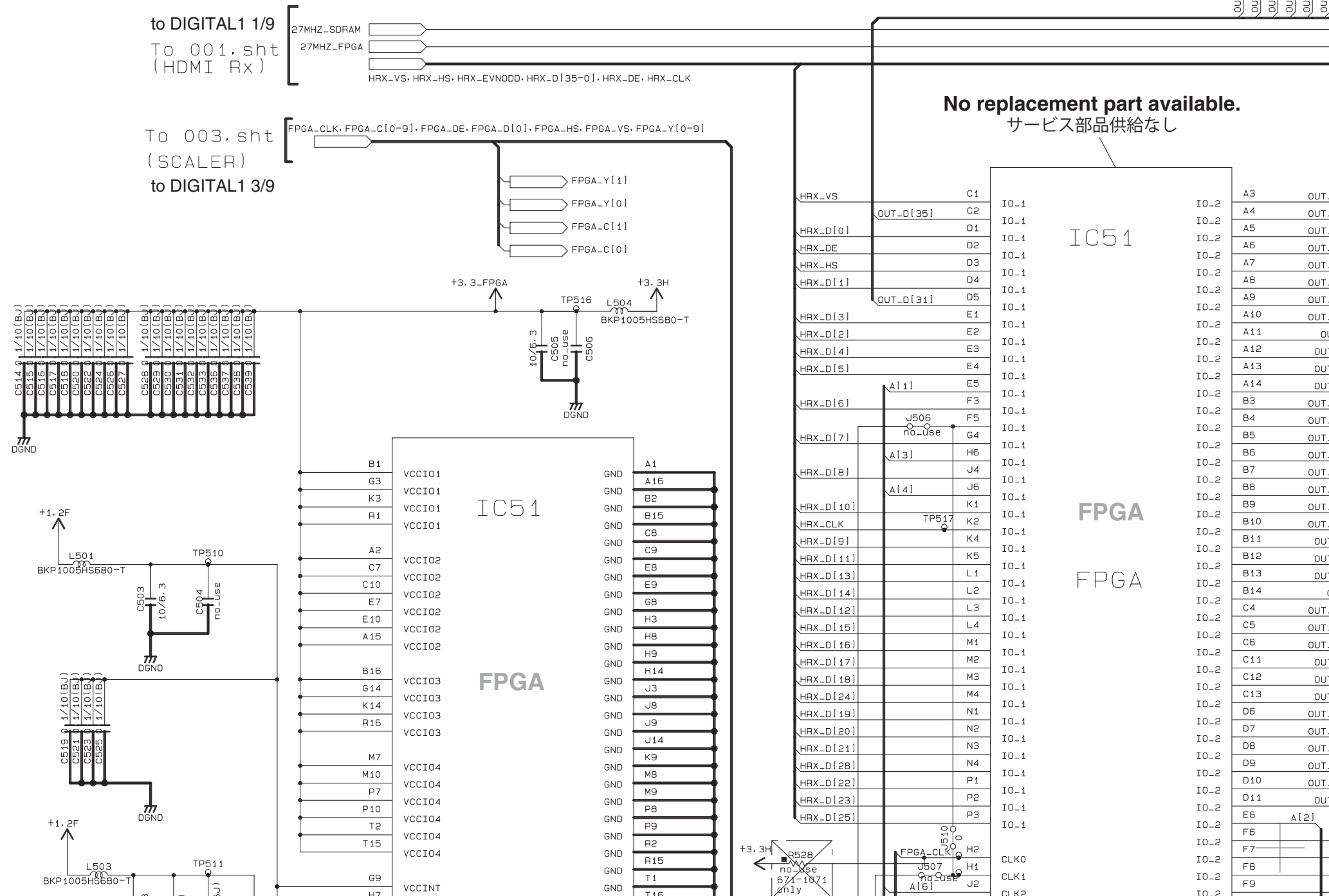
DIGITAL1 4/9

2

3

4

5





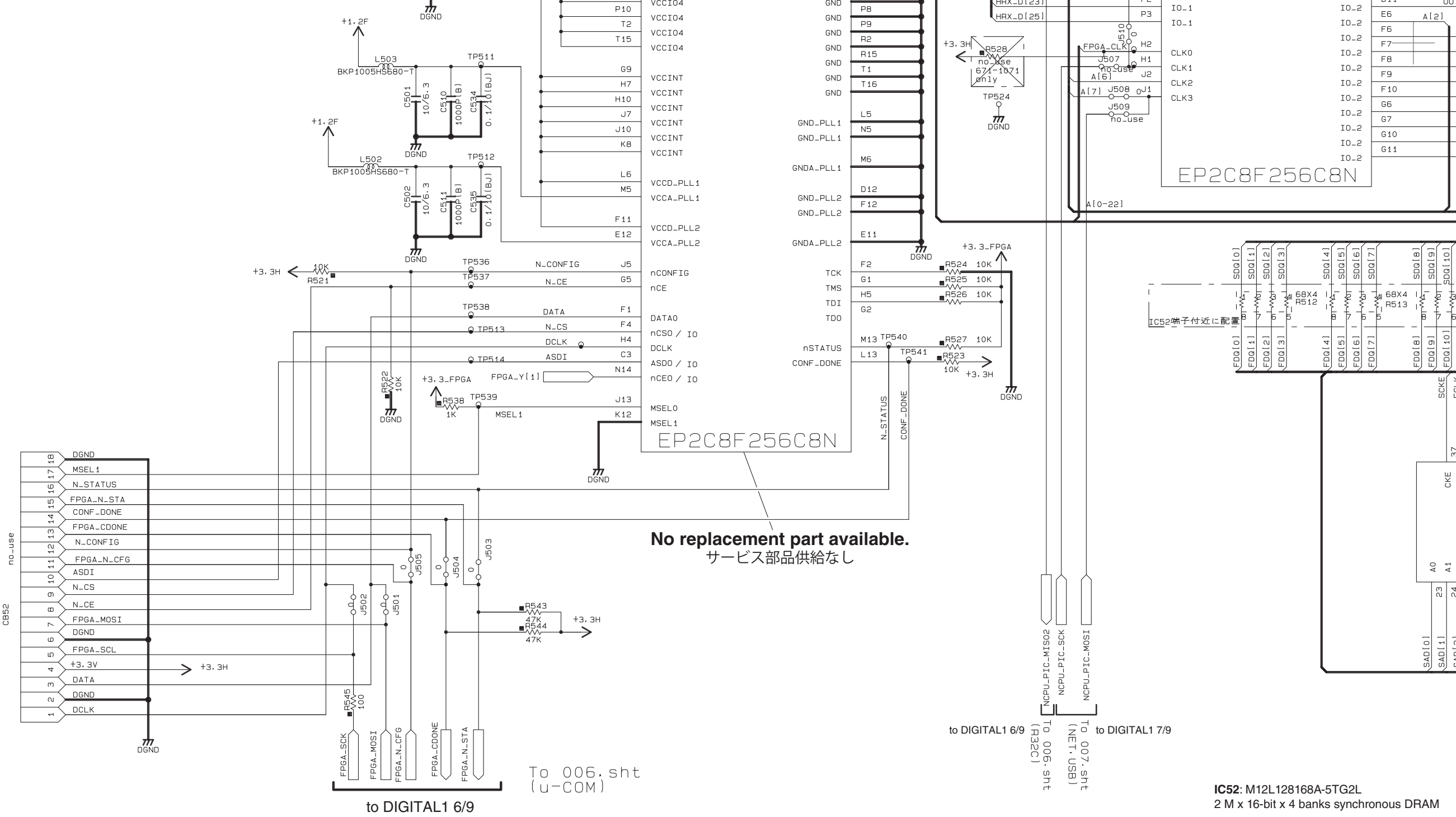
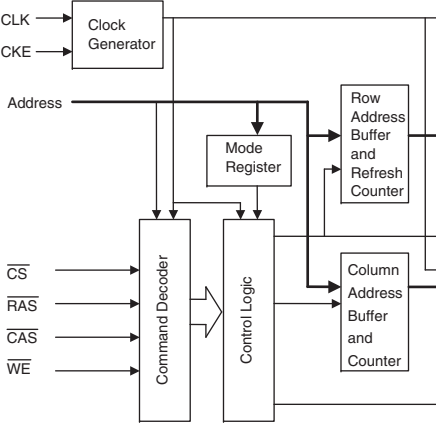
A	B
C	D

NOTICE (model)
(J)..... JAPAN
(U)..... U. S. A
(C)..... CANADA
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(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

RESISTOR	
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
□	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
▢	METAL PLATE RESISTOR
▣	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊗	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR	
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
●	CERAMIC TUBULAR CAPACITOR
⊙	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
①	MICA CAPACITOR
⊖	POLYPROPYLENE FILM CAPACITOR
⦿	SEMICONDUCTIVE CERAMIC CAPACITOR

IC52: M12L128168A-5TG2L
2 M x 16-bit x 4 banks synchronous DRAM



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

To 006.sht
(u-COM)

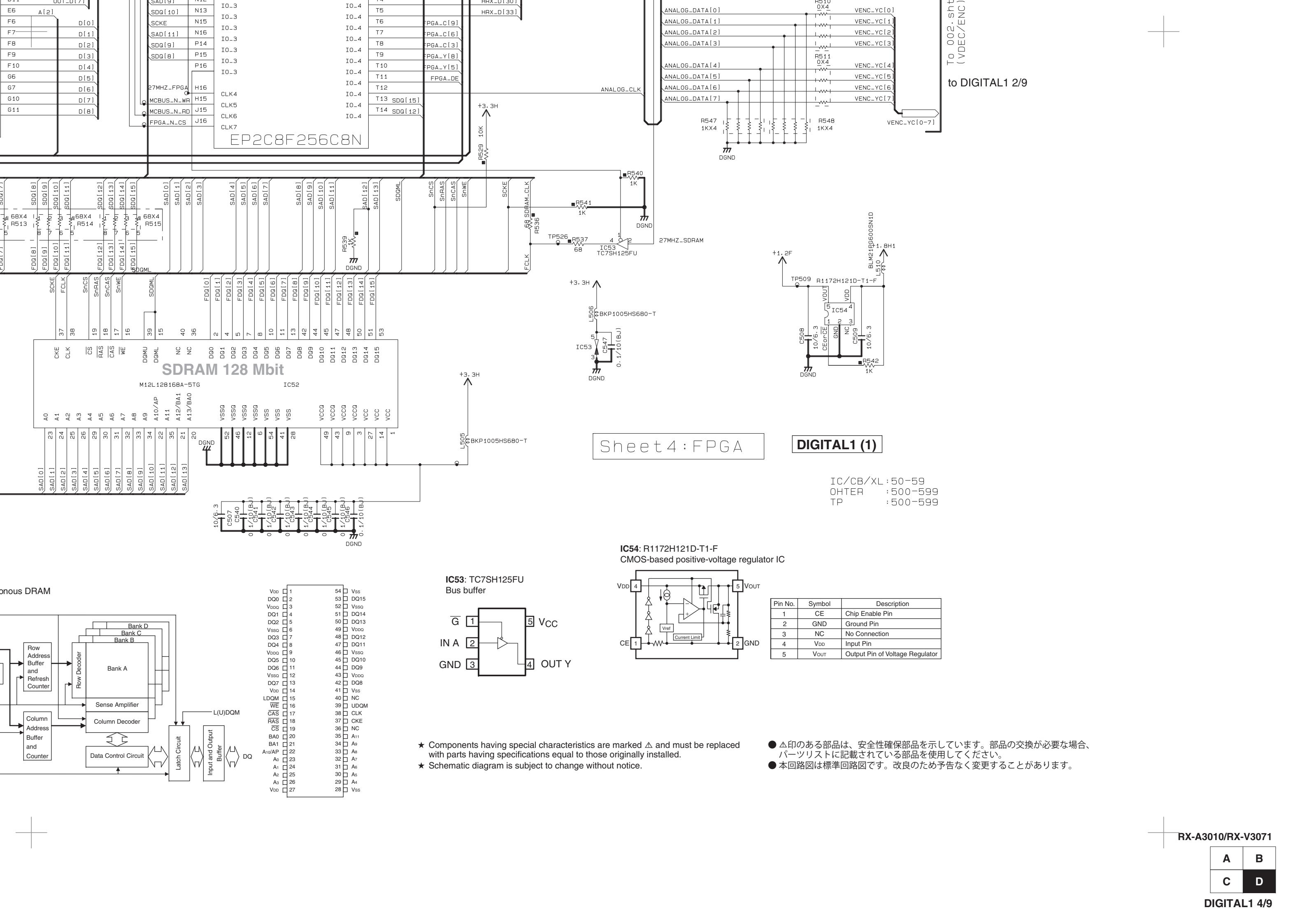
to DIGITAL1 6/9

to DIGITAL1 6/9

To 006.sht
(R32C)

To 007.sht
(NET, USB)

to DIGITAL1 7/9



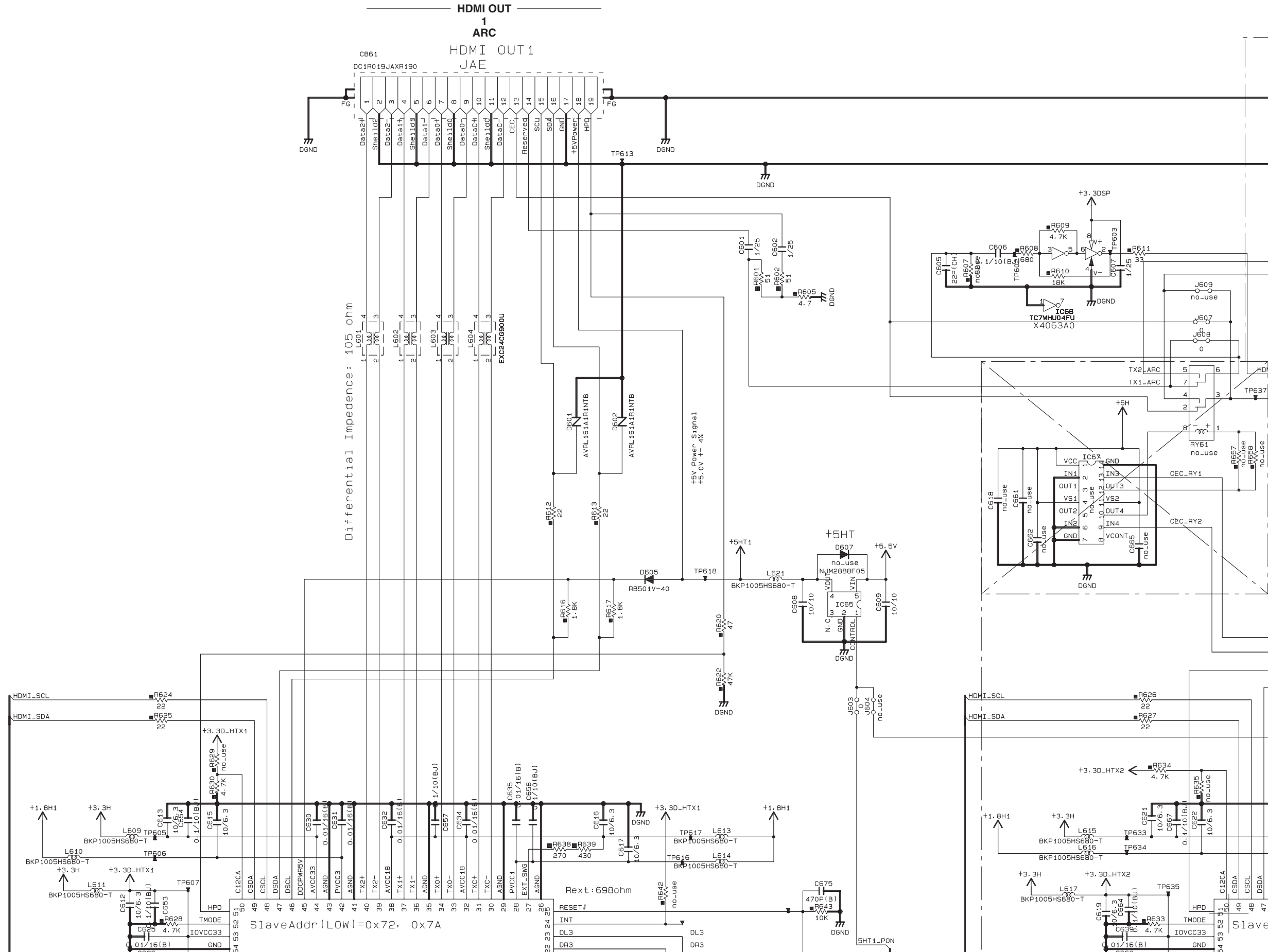
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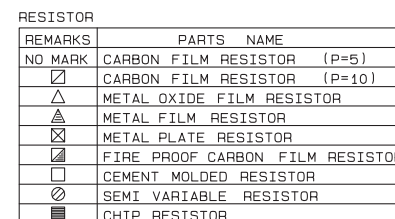
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3

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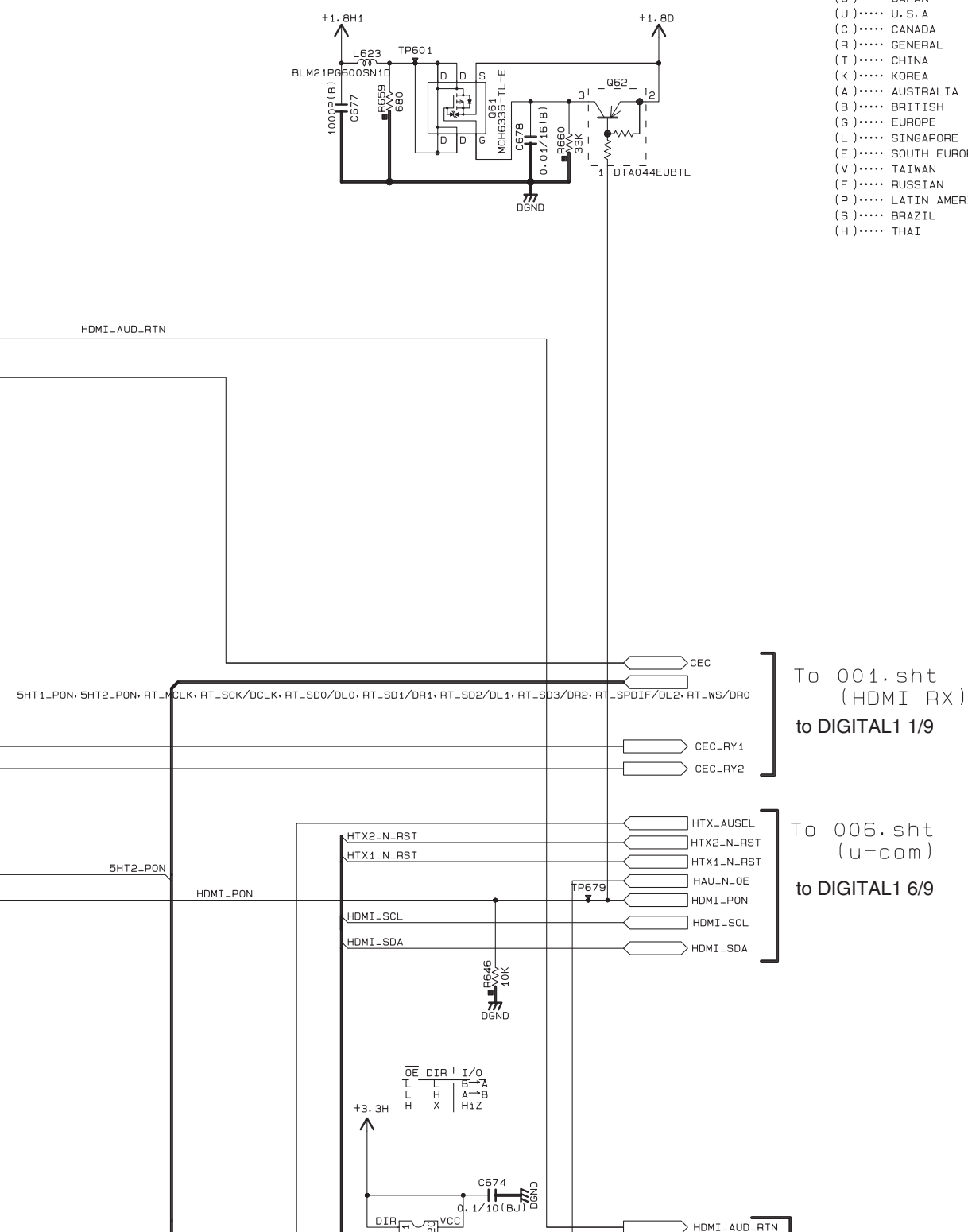
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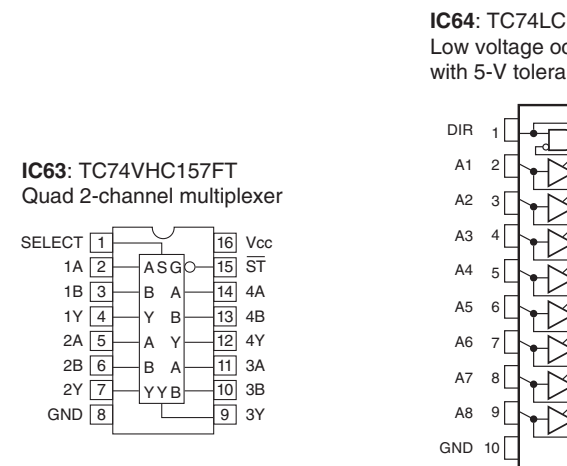
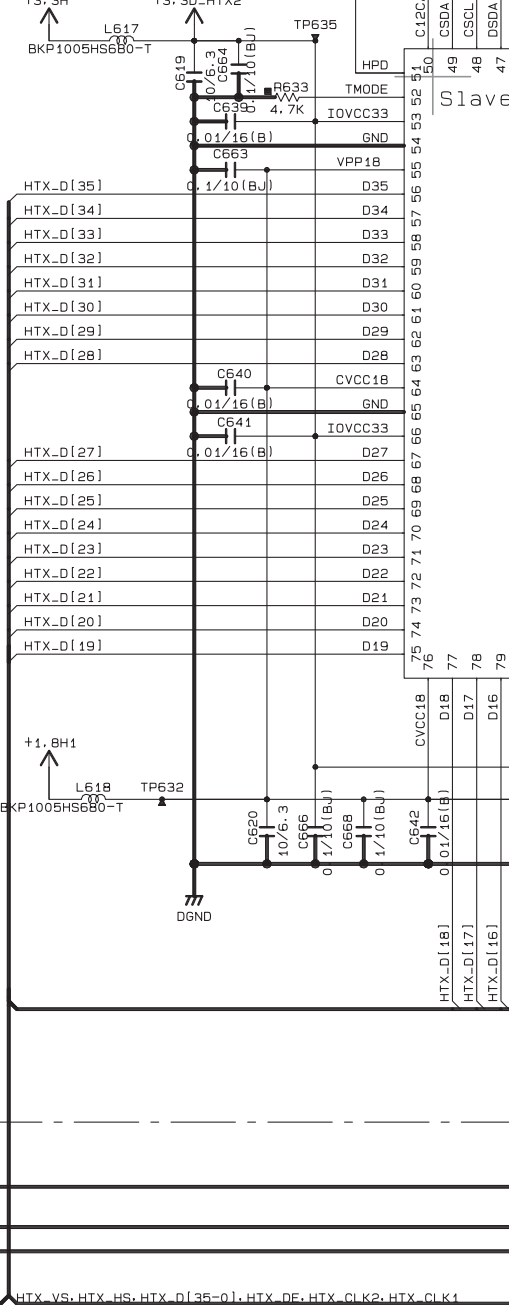




CAPACITOR		PARTS NAME
REMARKS		
NO MARK	ELECTROLYTIC CAPACITOR	
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	
⊙	CERAMIC TUBULAR CAPACITOR	
⊖	POLYESTER FILM CAPACITOR	
⊕	POLYSTYRENE FILM CAPACITOR	
⊖	MICA CAPACITOR	
⊕	POLYPROPYLENE FILM CAPACITOR	
⊖	SEMICONDUCTIVE CERAMIC CAPACITOR	

(J)..... JAPAN
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A	B
C	D

RX-A3010/RX-V3071

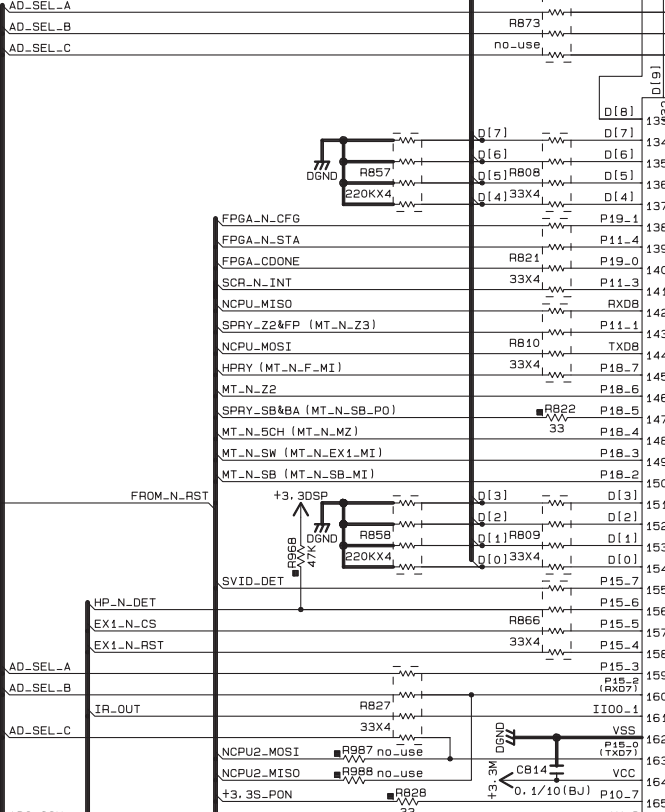
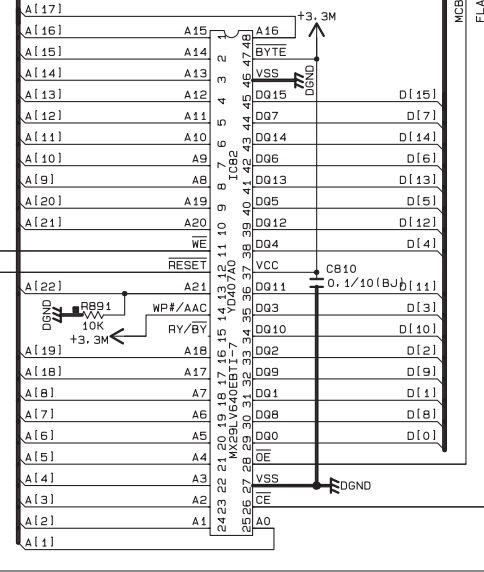
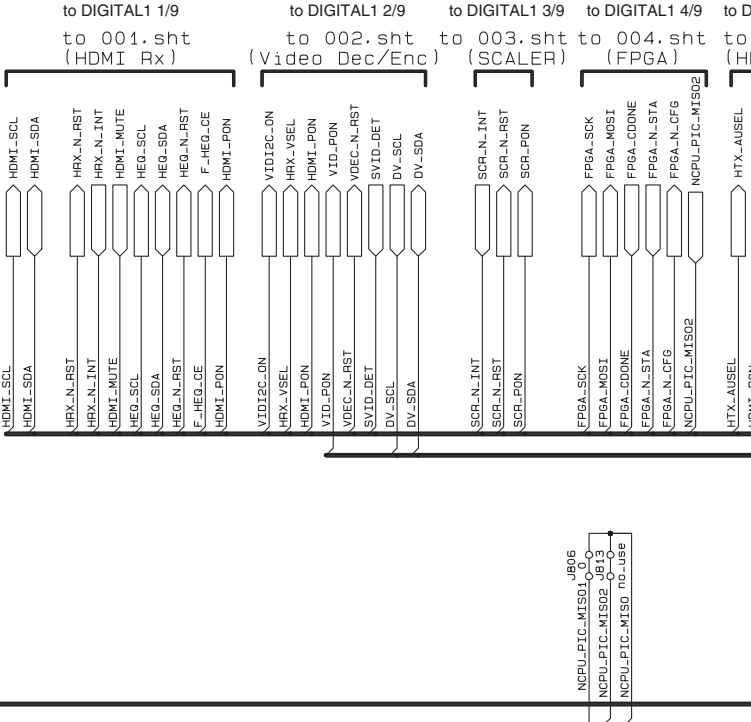
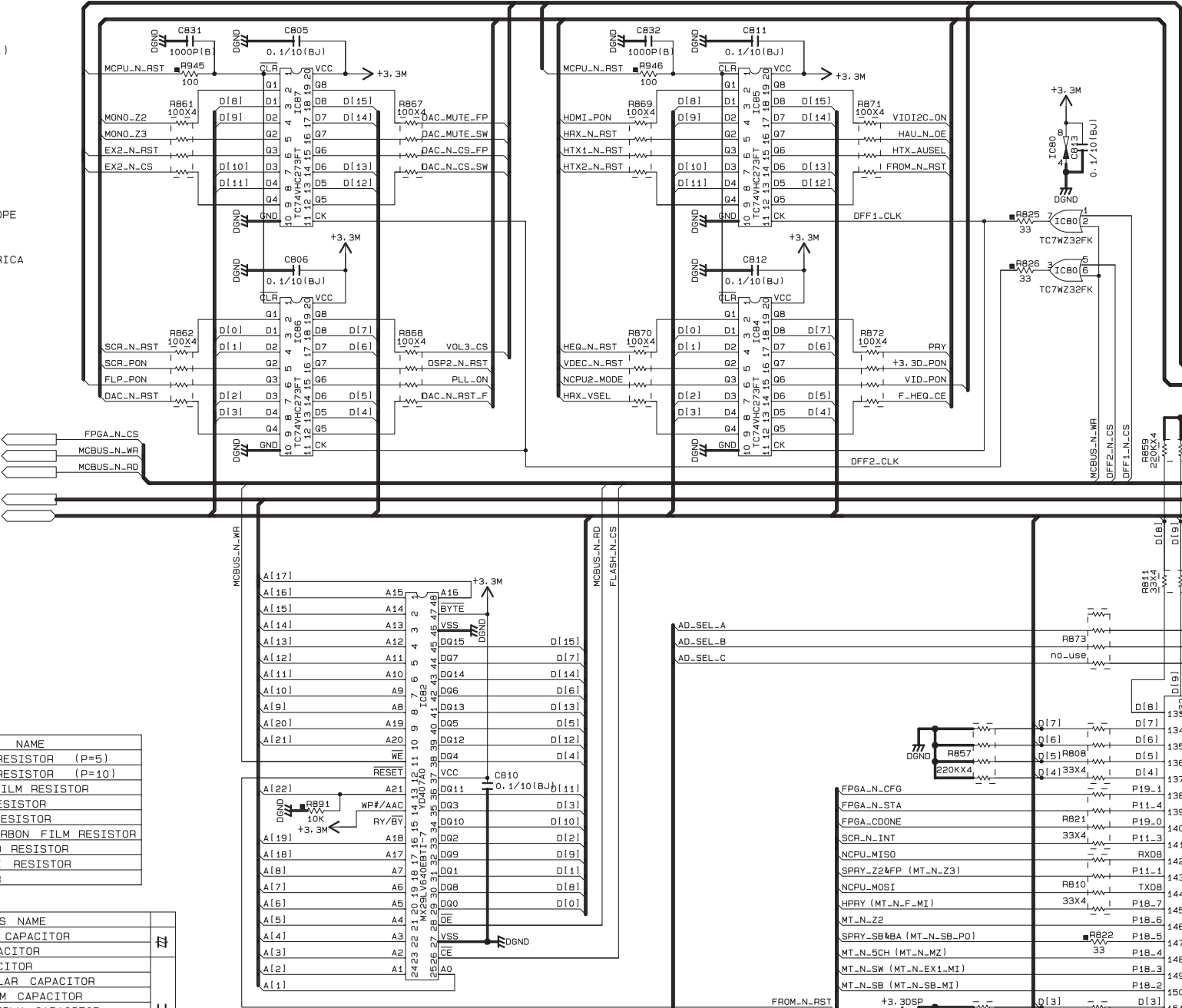
DIGITAL1 6/9

NOTICE (model)
(J)..... JAPAN
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(C)..... CANADA
(R)..... GENERAL
(T)..... CHINA
(K)..... KOREA
(A)..... AUSTRALIA
(B)..... BRITISH
(G)..... EUROPE
(L)..... SINGAPORE
(E)..... SOUTH EUROPE
(V)..... TAIWAN
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

to DIGITAL1 3/9
(FPGA)
FPGA-N_CS
MCBUS-N_WR
MCBUS-N_RD
A[0~22]
D[0~15]

REMARKS	PARTS	NAME
NO MARK	CARBON FILM RESISTOR (P=5)	
	CARBON FILM RESISTOR (P=10)	
	METAL OXIDE FILM RESISTOR	
	METAL FILM RESISTOR	
	METAL PLATE RESISTOR	
	FIRE PROOF CARBON FILM RESISTOR	
	CEMENT MOLDED RESISTOR	
	SEMI VARIABLE RESISTOR	
	CHIP RESISTOR	

REMARKS	PARTS	NAME
NO MARK	ELECTROLYTIC CAPACITOR	
	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	
	CERAMIC TUBULAR CAPACITOR	
	POLYESTER FILM CAPACITOR	
	POLYSTYRENE FILM CAPACITOR	
	MICA CAPACITOR	
	POLYPROPYLENE FILM CAPACITOR	
	SEMICONDUCTIVE CERAMIC CAPACITOR	

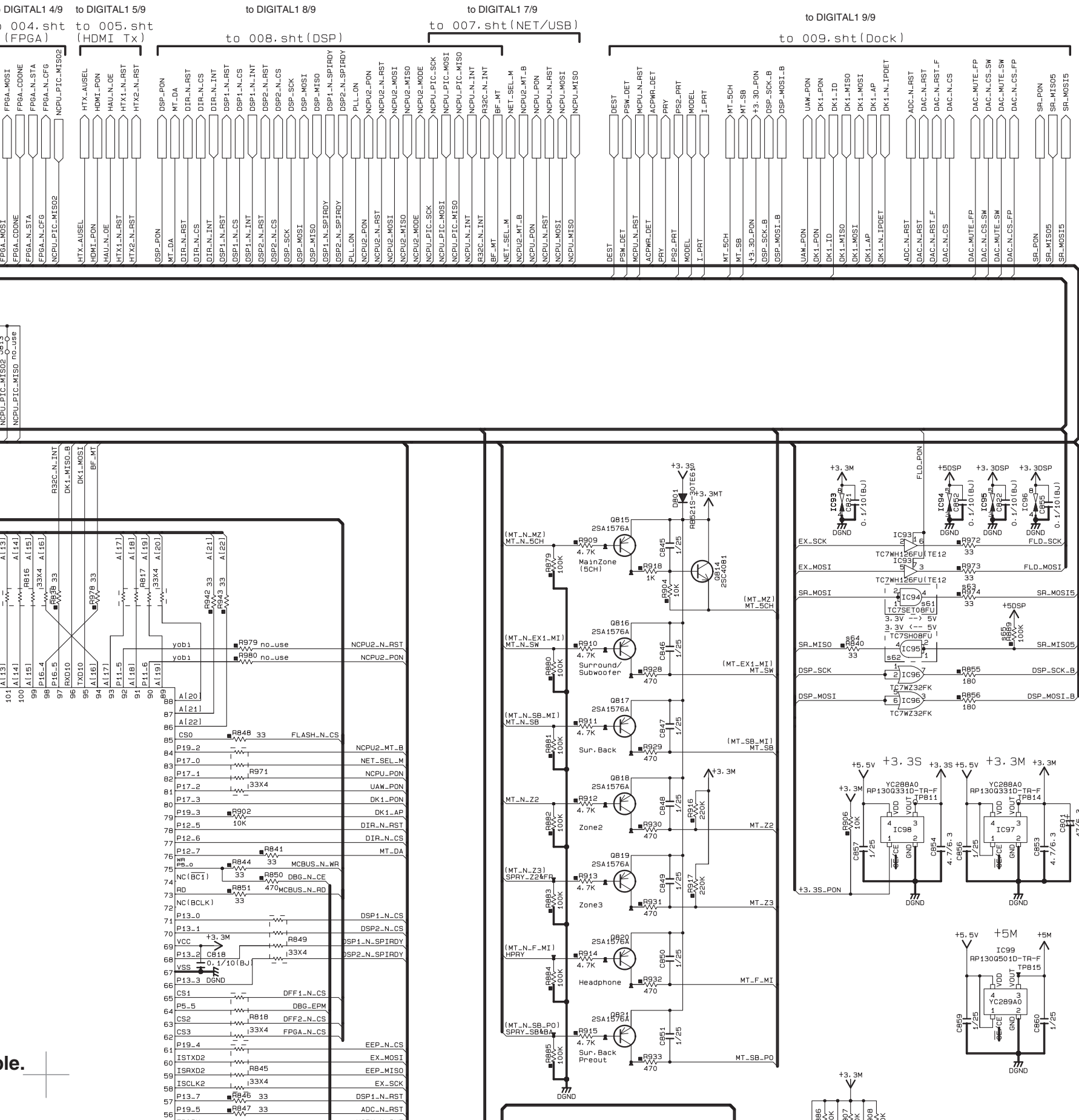


MICROPROCESSOR

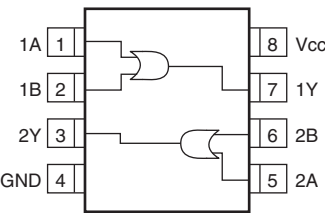


No replacement part available.
サービス部品供給なし

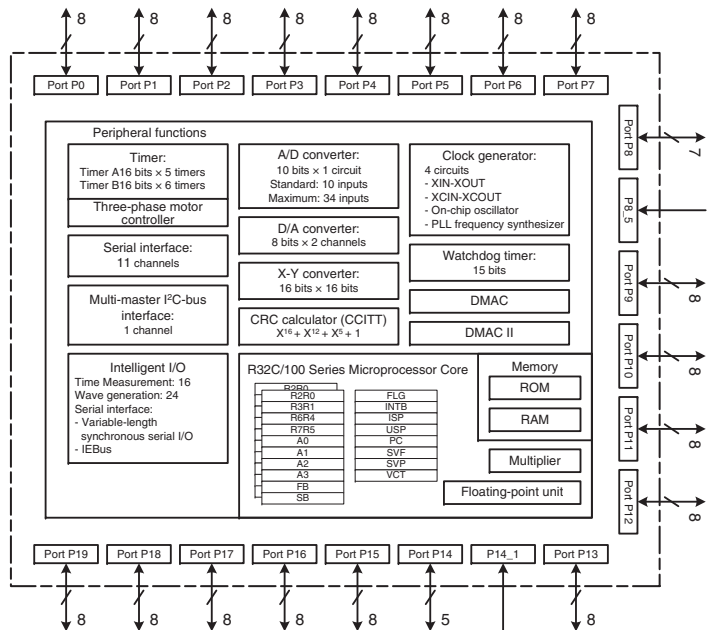
A	B
C	D



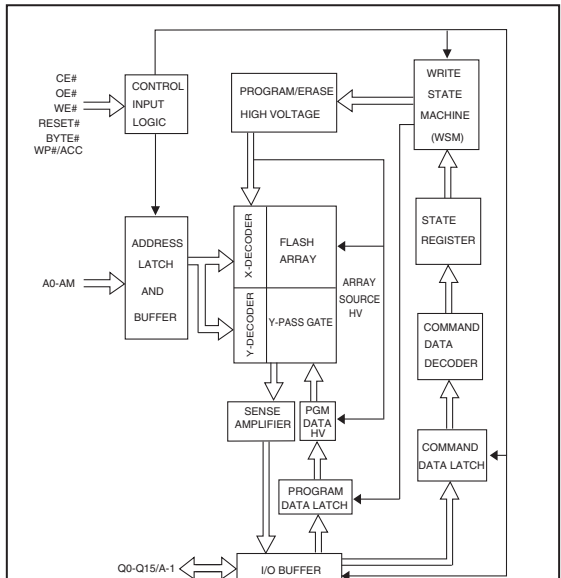
IC80, 96: TC7WZ32FK (TE85L, F)
Dual 2-input OR gate

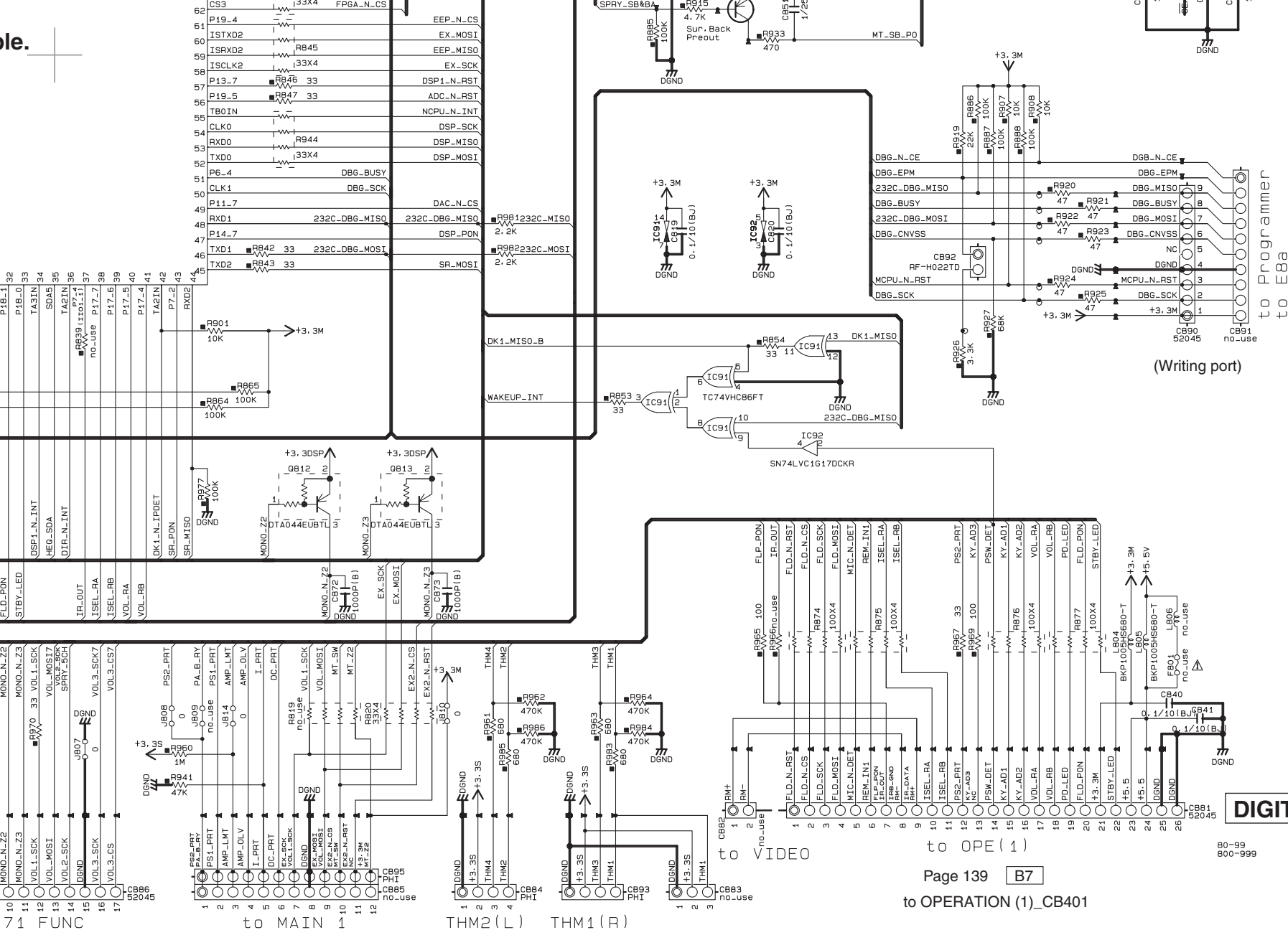


IC81: R5F6416MADFE
Single chip 32-bit microprocessor



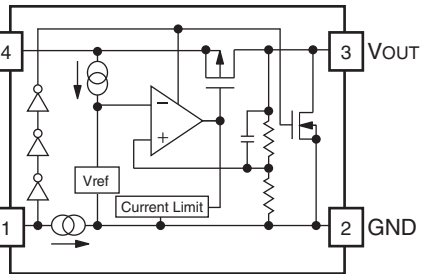
IC82: MX29LV640EBTI-70G
64 M-bit single voltage 3 V only flash memory





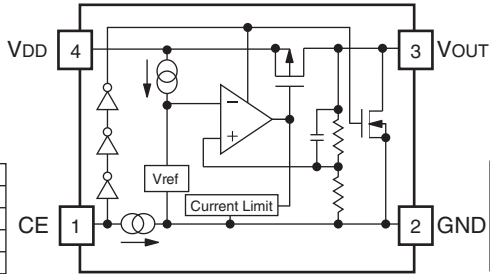
Page 142 **G9** to AMPPOWER (1)_W1800
Page 140 **D2** to AMP (5)_W1002
Page 140 **B2** to AMP (4)_W1001

C97, 98: RP130Q331D-TR-F
Voltage regulator

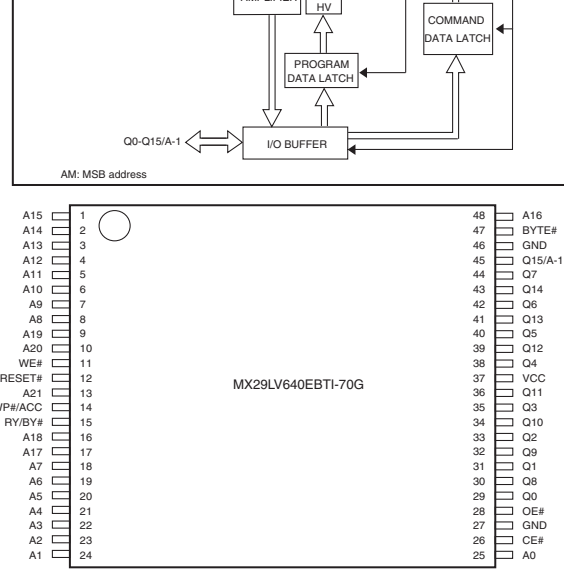


Pin No.	Symbol	Description
1	CE	Chip Enable ("H" Active)
2	GND	Ground Pin
3	VOUT	Output Pin
4	VDD	Input Pin

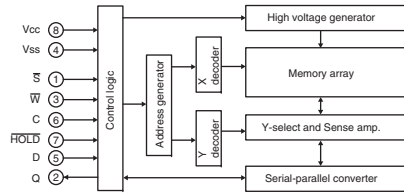
IC99: RP130Q501D-TR-F
Voltage regulator



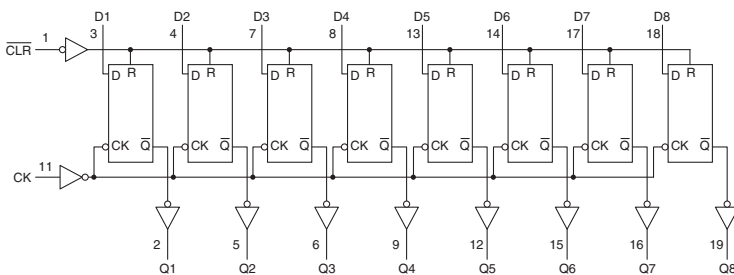
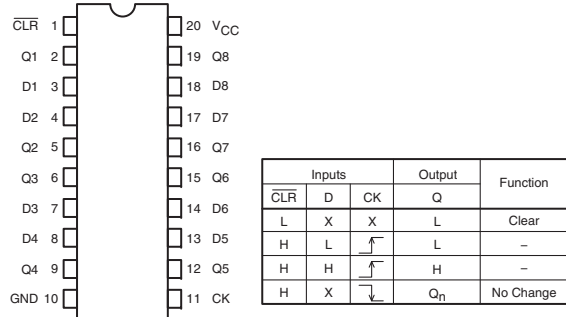
Pin No.	Symbol	Description
1	CE	Chip Enable ("H" Active)
2	GND	Ground Pin
3	VOUT	Output Pin
4	VDD	Input Pin



IC83: R1EX25512ATA00A
64 K word x 8-bit serial peripheral interface EEPROM



IC84-87: TC74VHC273FT (EL,K)
Octal D-type flip-flop with clear



- ★ 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.

- Δ 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あります。

A	B
C	D

A

B

C

D

E

F

G

1

DIGITAL1 7/9

DIGITAL1 (1)

NET/USB +3.3V

NET/USB +1.2V

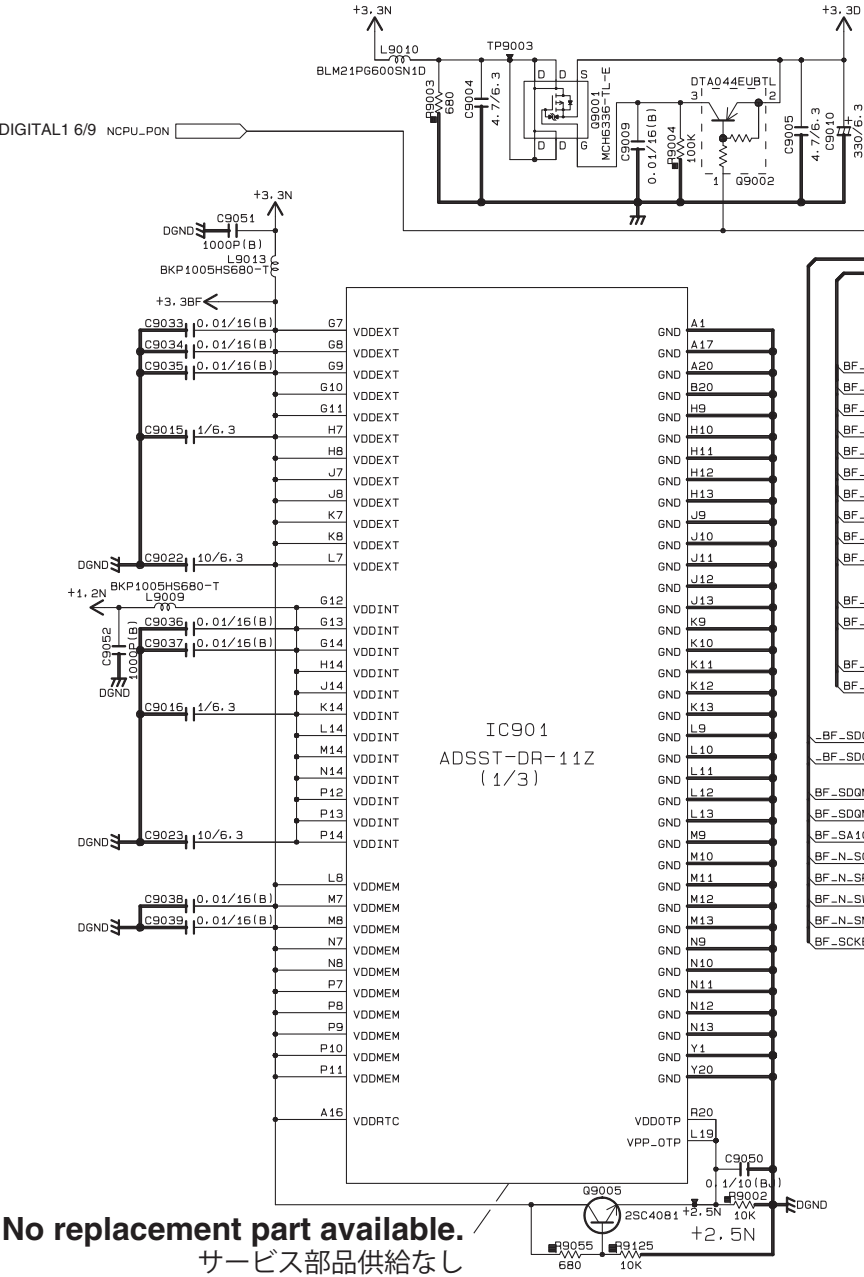
SDRAM

2

3

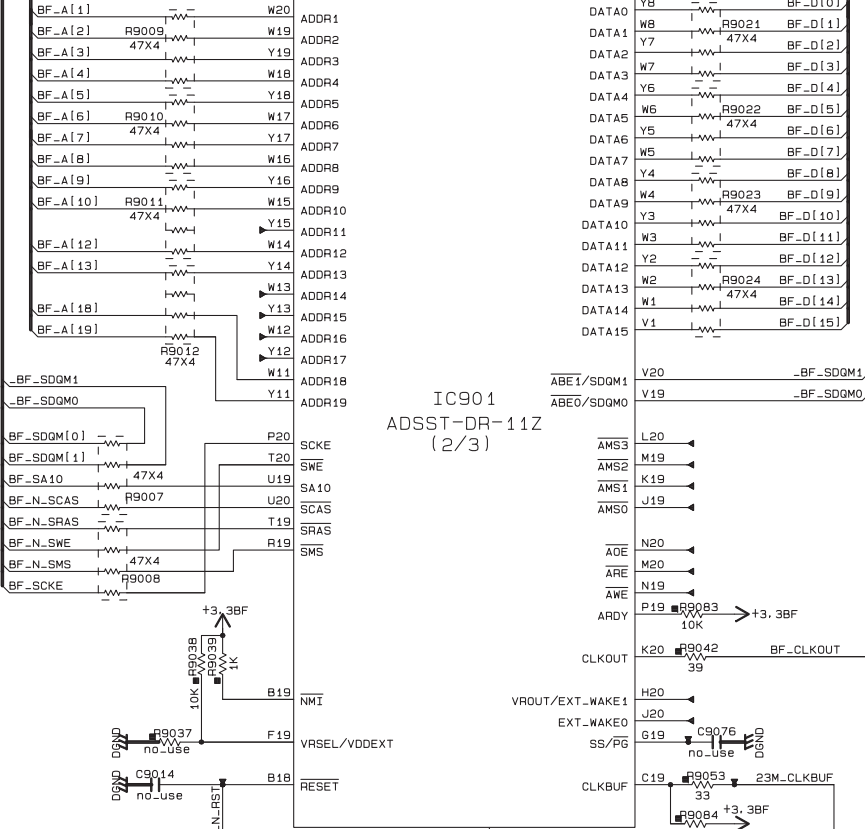
4

5



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

NETWORK MICROPROCESSOR



to DIGITAL1 6/9

7

8

NOTICE (model)
(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
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

REMARKS	PARTS	NAME
NO MARK	CARBON FILM RESISTOR (P=5)	
□	CARBON FILM RESISTOR (P=10)	
△	METAL OXIDE FILM RESISTOR	
▲	METAL FILM RESISTOR	
⊠	METAL PLATE RESISTOR	
⊞	FIRE PROOF CARBON FILM RESISTOR	
□	CEMENT MOLDED RESISTOR	
⊘	SEMI VARIABLE RESISTOR	
■	CHIP RESISTOR	

REMARKS	PARTS	NAME
NO MARK	ELECTROLYTIC CAPACITOR	
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	
●	CERAMIC TUBULAR CAPACITOR	
◎	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
①	MICA CAPACITOR	
⊙	POLYPROPYLENE FILM CAPACITOR	
●	SEMICONDUCTIVE CERAMIC CAPACITOR	

- ★ 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.

- △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あります。

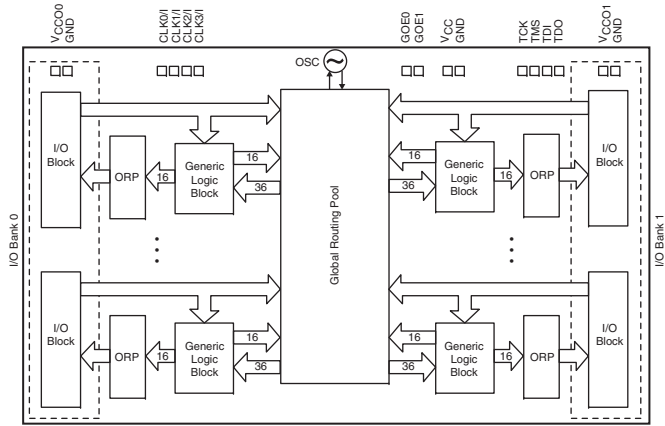
10

RX-A3010/RX-V3071

A	B
C	D

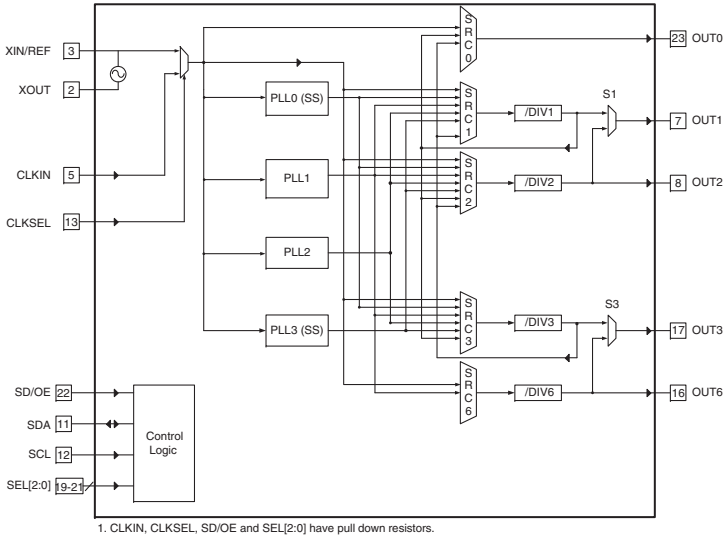
DIGITAL1 7/9

IC907: LC4032ZE-7TN48C
1.8 V in-system programmable ultra low power PLDs



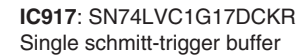
No replacement part available.
サービス部品供給なし

IC908: 5V49EE503-027NLG18
Clock synthesizer



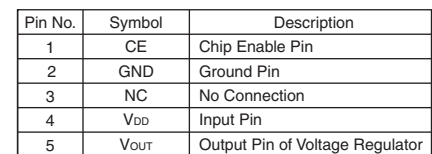
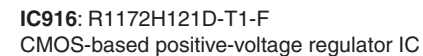
サービス部品供給なし

サービス部品供給なし





INPUT A	OUTPUT Y
H	H
L	L



RX-A3010/RX-V3071

A	B
C	D



Differential Impedance : $90\ \Omega$

USB Page 139 H7
to OPERATION (2)_W4501

The block diagram illustrates the internal architecture of the H8/300H MICROPROCESSOR. The central component is the H8/300H MICROPROCESSOR, which includes System control, Security logic, and an I/O port. The I/O port is connected to external pins P4/I/O, P3/I/O, P2/I/O, and P1/I/O. The processor is also connected to an internal address bus and an internal data bus. Key internal components include ROM (112 kbytes), RAM (4 kbytes), EEPROM (16 kbytes + 2 kbytes), Interval timer 1, Interval timer 2, and a Modular multiplication coprocessor with a Register (512 bytes). The processor is powered by Vcc and Vss, and has a Power-on reset circuit and an On-chip oscillator. The top view shows the pin configuration: P4/I/O (pin 1), P3/I/O (pin 14), P2/I/O (pin 12), P1/I/O (pin 13), Vss (pin 11), Vcc (pin 5), RES (pin 4), and pins 2, 3, 6, 7, 8, 9, 10, 15, 16, 17, 18, 19, 20.

The schematic diagram shows the internal circuit of the DAC0808. It features a 4-bit input (pins 1-4), a current source (pin 1), a reference voltage input (pin 2), a current mirror (pin 3), and a feedback loop (pin 4). The circuit is powered by VDD and GND. The output is VOUT.

Pin No.	Symbol	Description
1	CE	Chip Enable ("H" Active)
2	GND	Ground Pin
3	VOUT	Output Pin
4	VDD	Input Pin

Pin No.	Symbol	Description
1	CE	Chip Enable ("H" Active)
2	GND	Ground Pin
3	V _{OUT}	Output Pin
4	V _{DD}	Input Pin

A	B
C	D

RX-A3010/RX-V3071

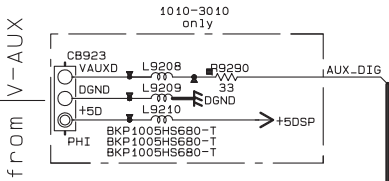
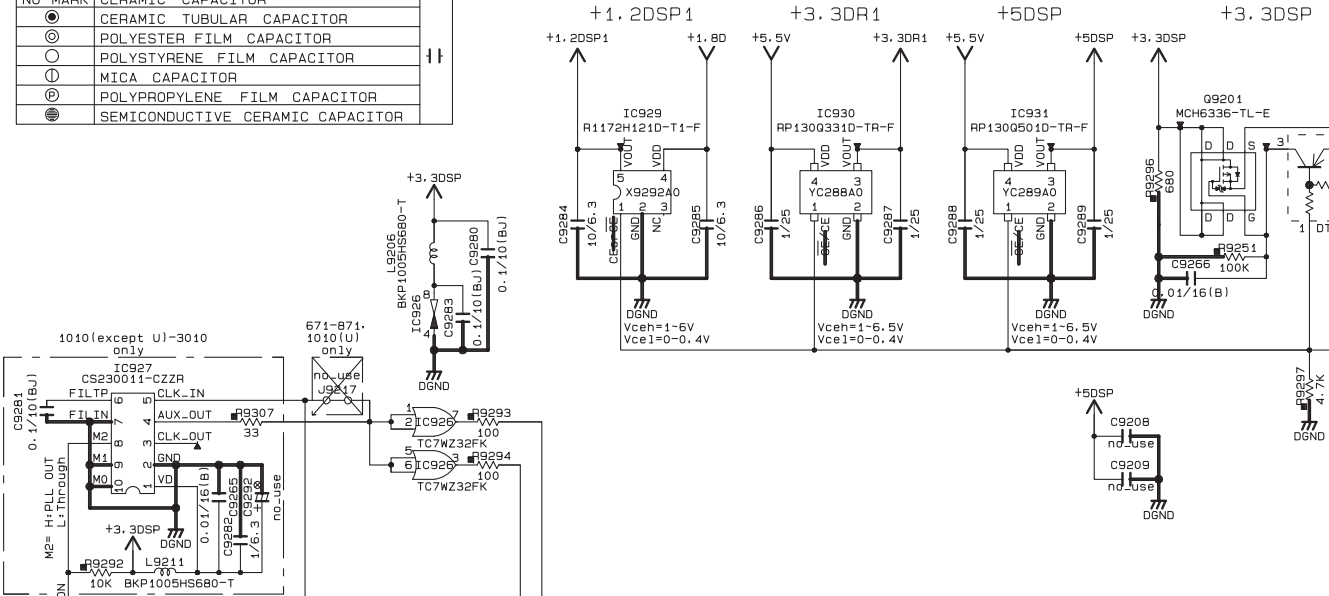
DIGITAL1 8/9

Destination Part List			
sXX	LOC	JCRTKAB9LF	U
s61	IC94	X	X8398A0 TC7SE108FU
s62	IC95	X	XR680A0 TC7SH08FU
s63	R974	X	RD45433 33
s64	R840	X	RD45433 33
s65	R889	X	RD45810 100K
s66	R897	RD45630 3K	RD45647 4.7K
s81	C9212	UF43710 10/16	UF03710 10/16
s91	R9421	X	RD45410 10
s92	R9422	X	RD45810 100K
s93	Q9402	X	WN78230 DTA043EUBTL
s94	Q9401	X	DT044EUBTL
s95	C9402 C9434	UF43710 10/16	UF03710 10/16
s96	C9413	US66310 1000P(B)	US63410 0.01/16(B)
s97	R9419	WA62070 1P6.8	WB78470 1P6.8

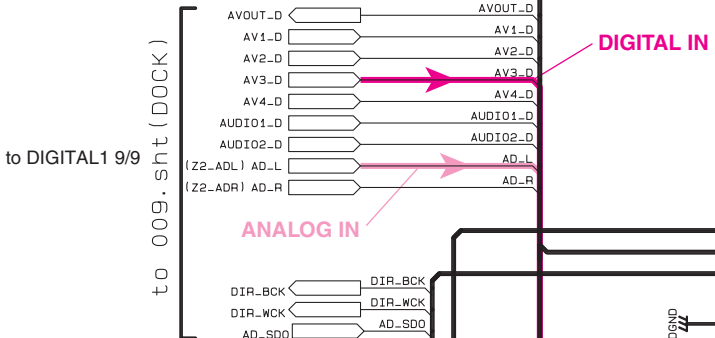
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
☑	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊗	METAL PLATE RESISTOR
⊠	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊕	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	CERAMIC TUBULAR CAPACITOR
⊖	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
⦶	MICA CAPACITOR
⊖	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

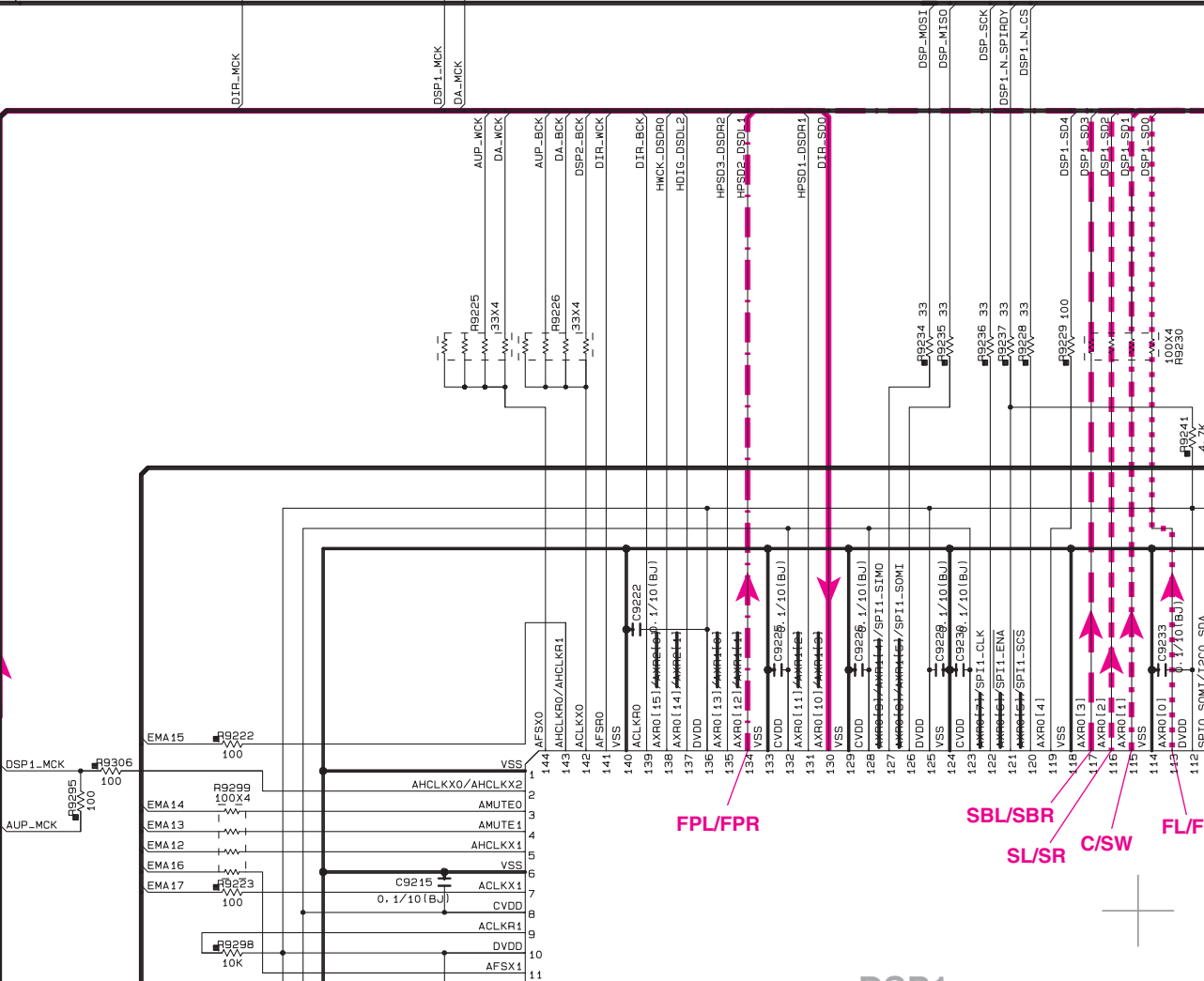
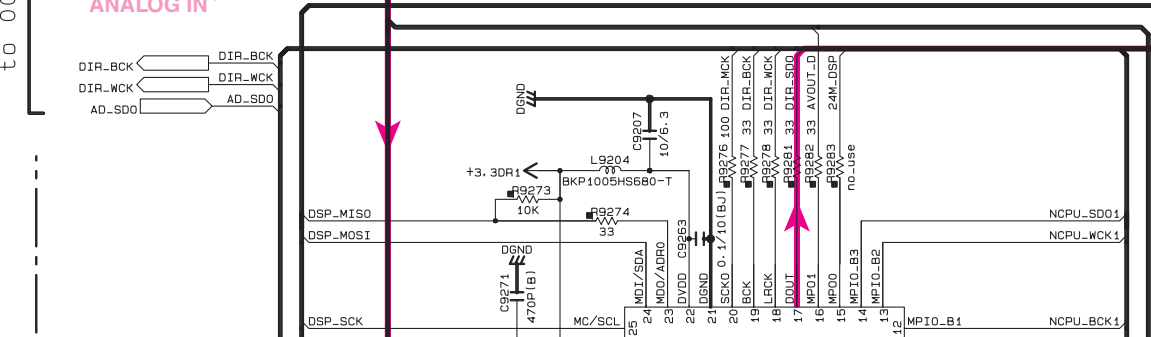
NOTICE (model)
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(U)..... U. S. A
(C)..... CANADA
(R)..... GENERAL
(T)..... CHINA
(K)..... KOREA
(A)..... AUSTRALIA
(B)..... BRITISH
(G)..... EUROPE
(L)..... SINGAPORE
(E)..... SOUTH EUROPE
(V)..... TAIWAN
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI



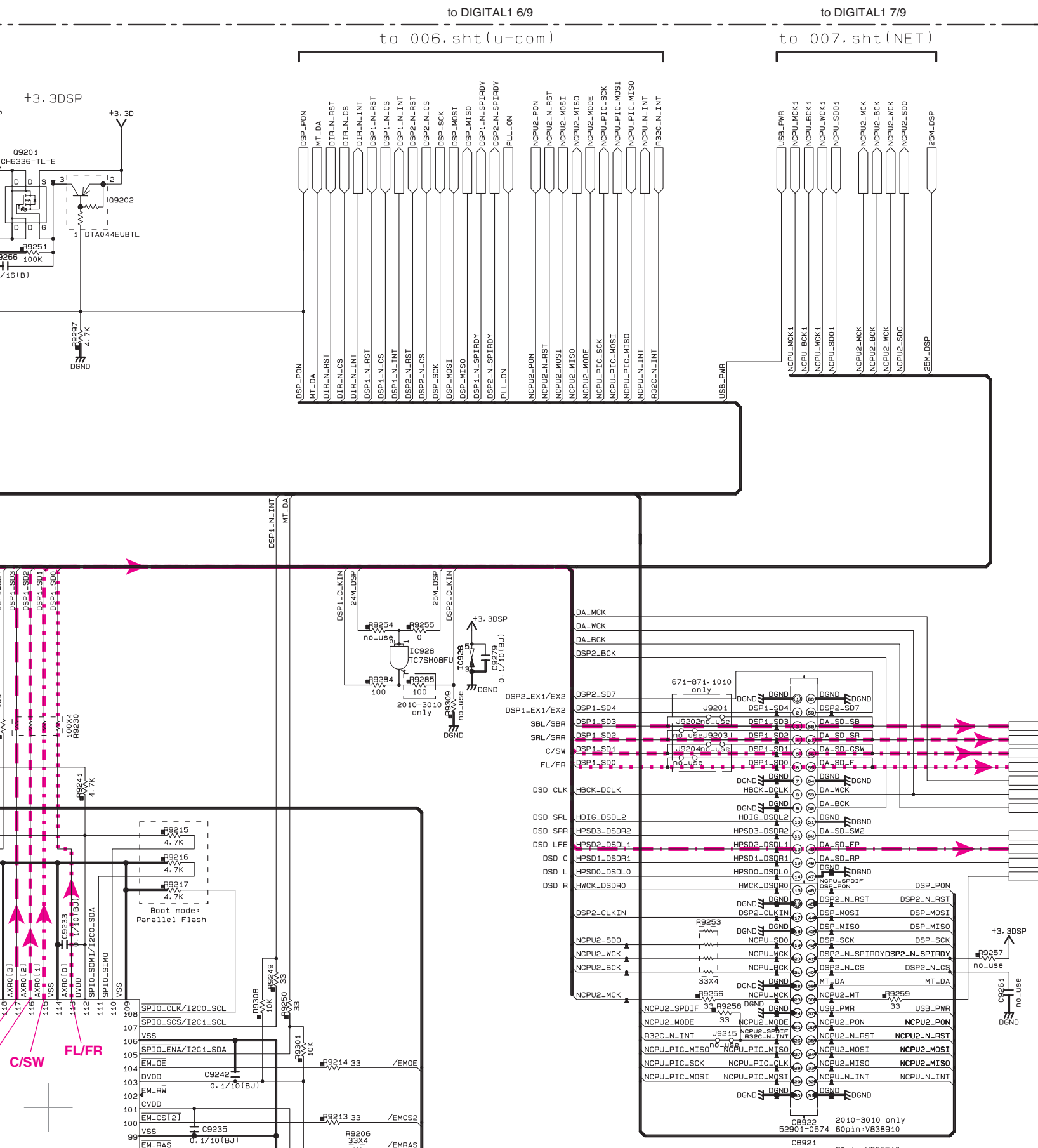
Page 146 12
to DAC_W852



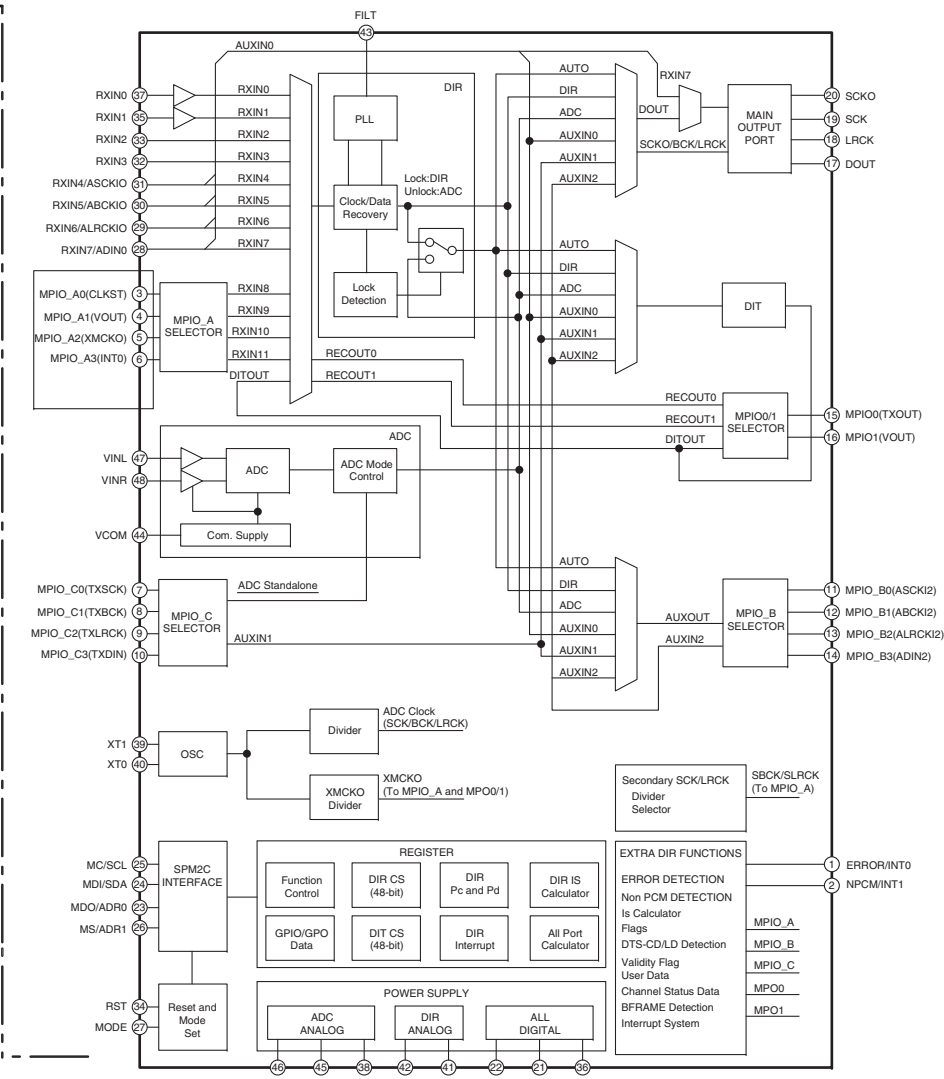
to DIGITAL1 9/9



A	B
C	D

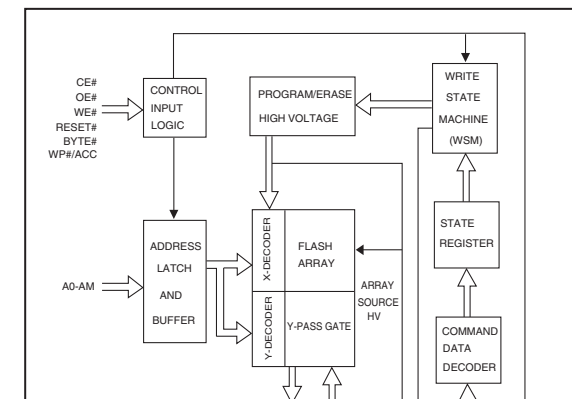


IC924: PCM9210PTR
216-kHz digital audio interface transceiver (DIX) with stereo ADC and routing



to DIGITAL1 9/9

IC923: MX29LV160DBTI-70G
16 M-bit 3 V supply flash memory



SL/SR C/SW

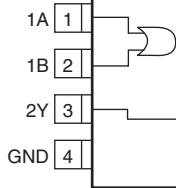
DSP1

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

D70YE101BRFP266
IC921

IC927: CS2300
Clock multiplier

IC926: TC7WZ3
Dual 2-input OR



1A

1B

2Y

GND

1

2

3

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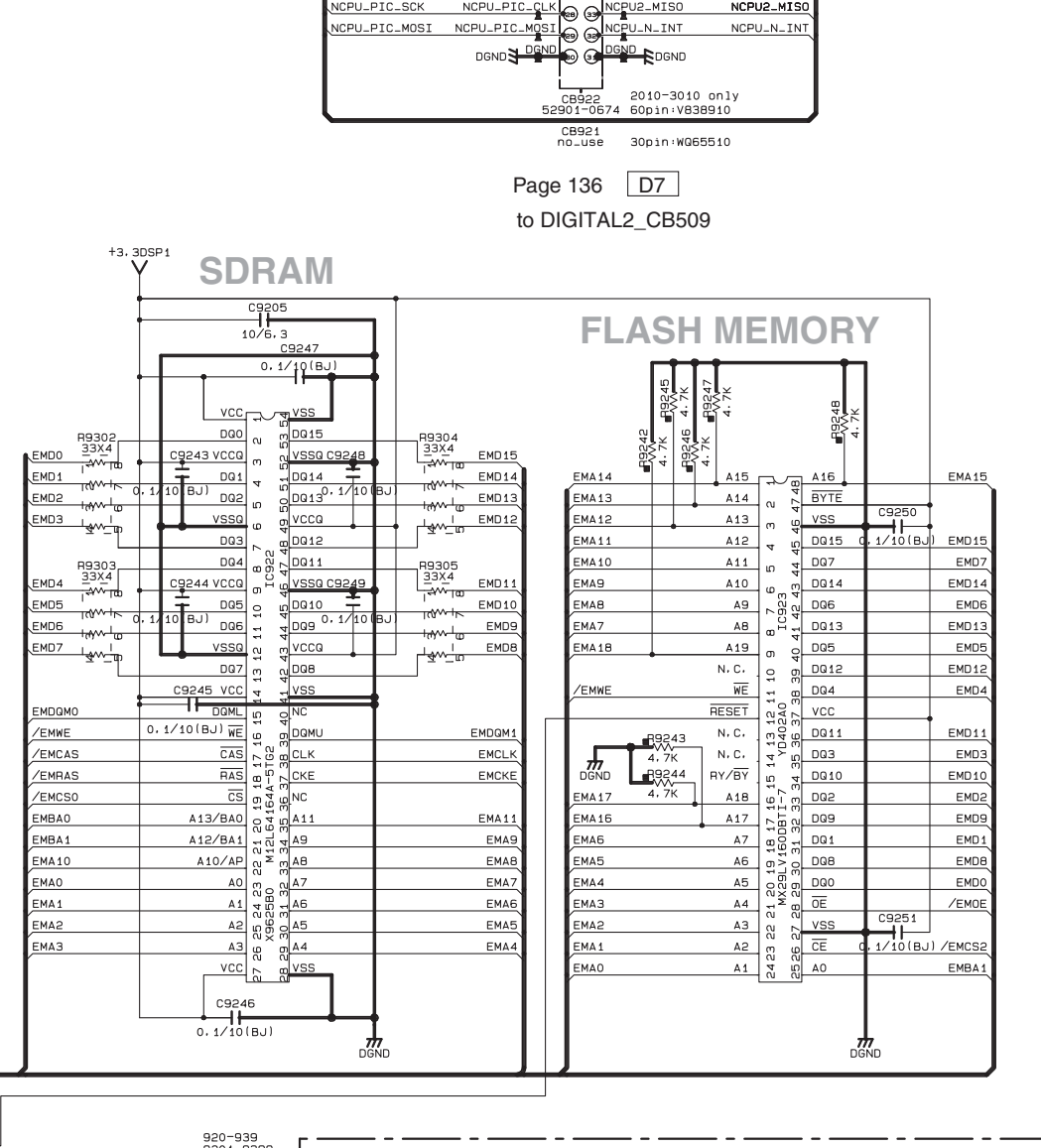
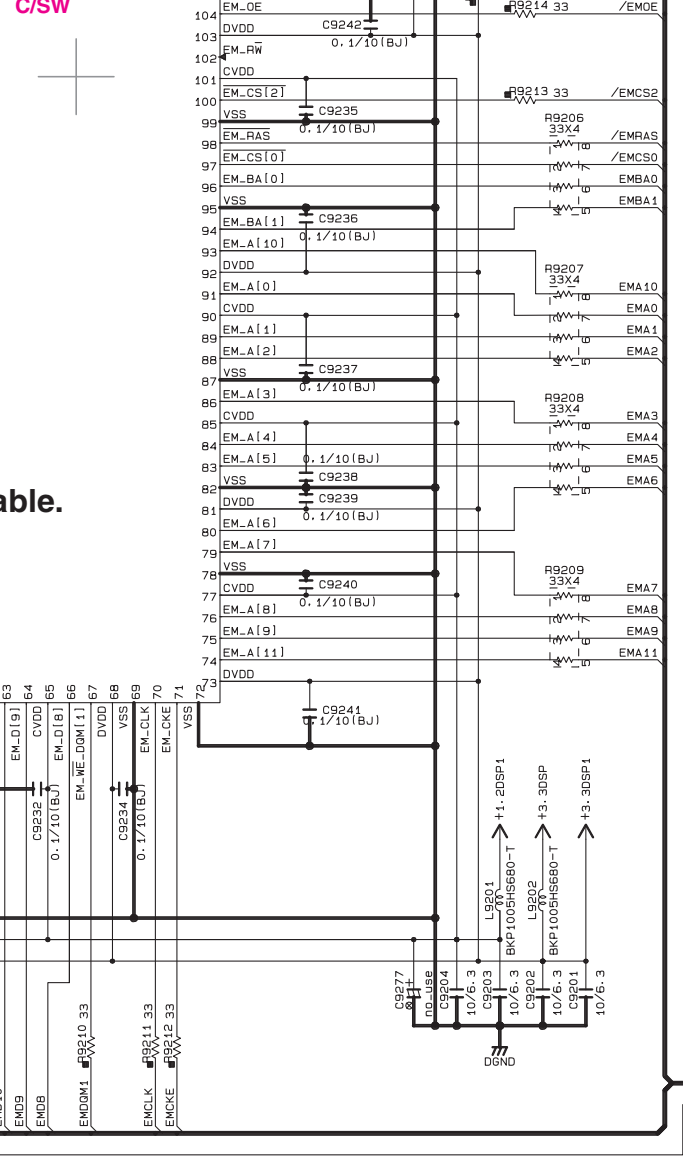
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330

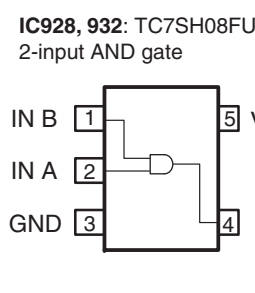
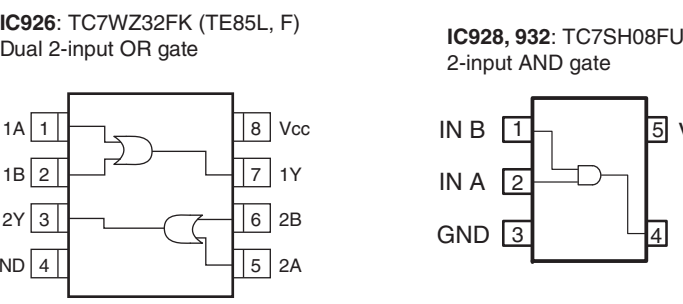
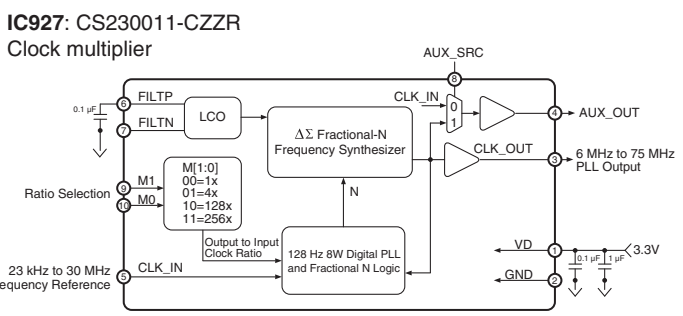
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332

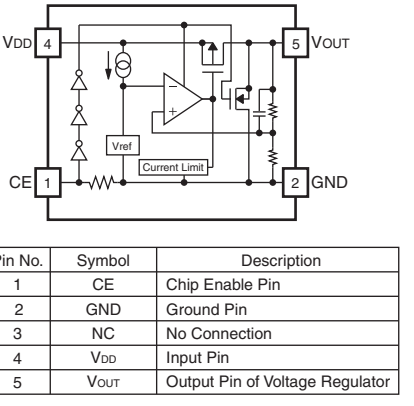
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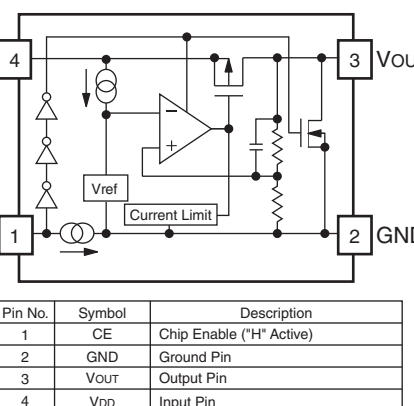
DIGITAL1 (1) DIGITAL8: DIR1&DSP1



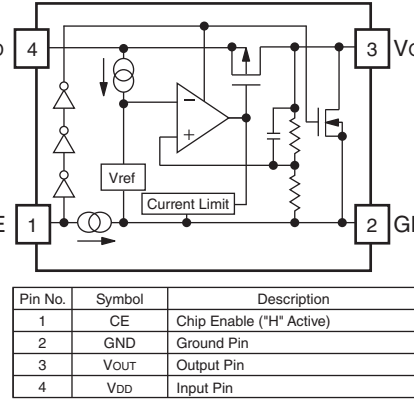
IC929: R1172H121D-T1-F CMOS-based positive-voltage regulator IC



IC930: RP130Q331D-TR-F Voltage regulator

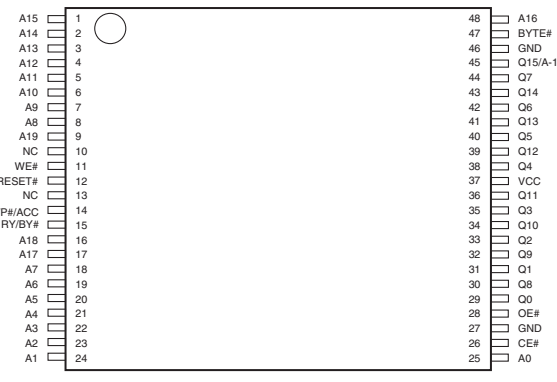
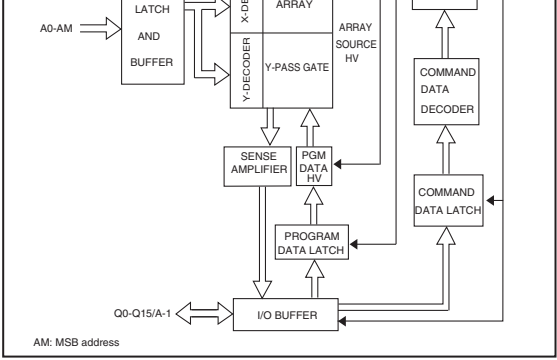


IC931: RP130Q501D-TR-F Voltage regulator



★ 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.

● Δ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あります。



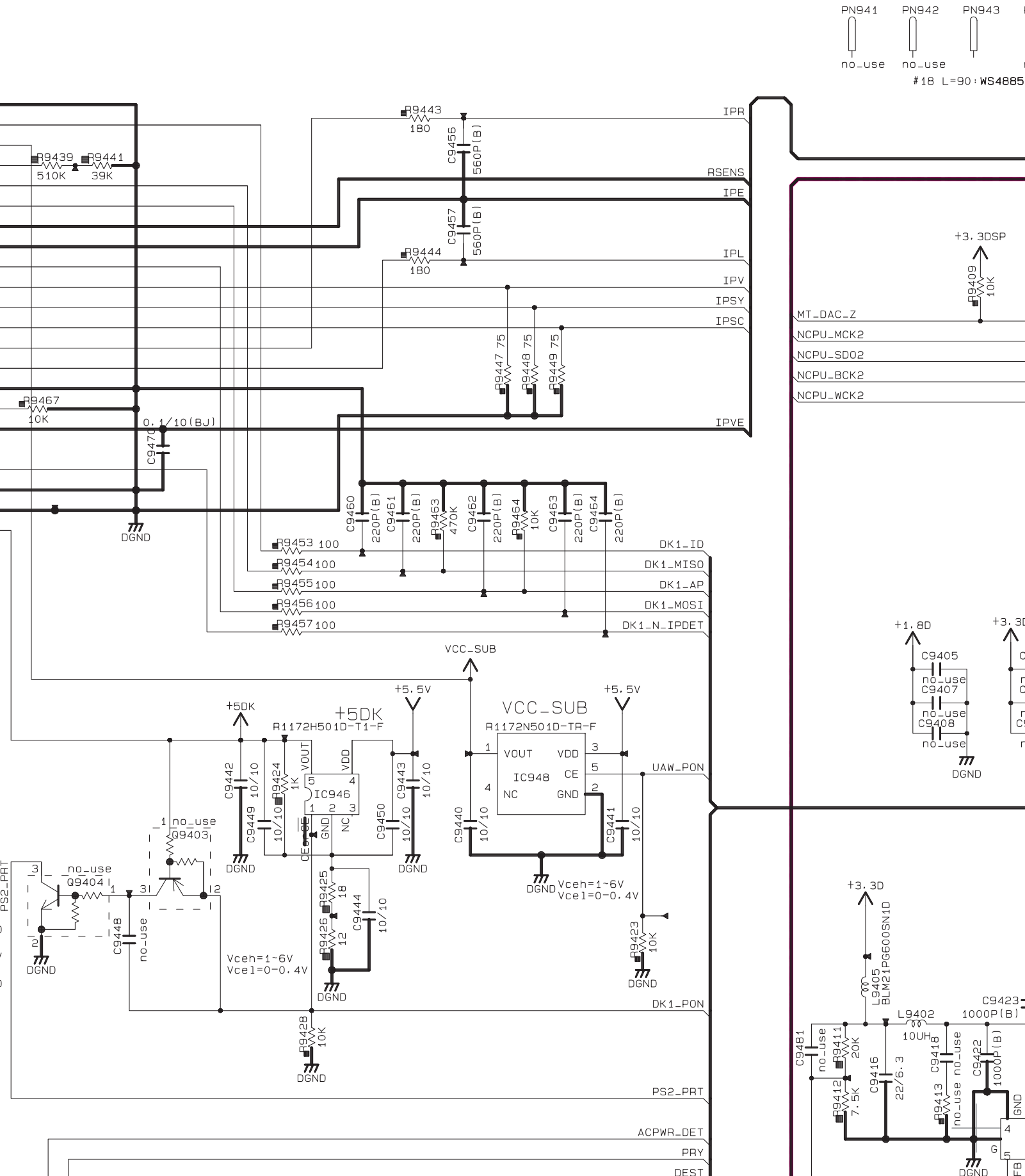
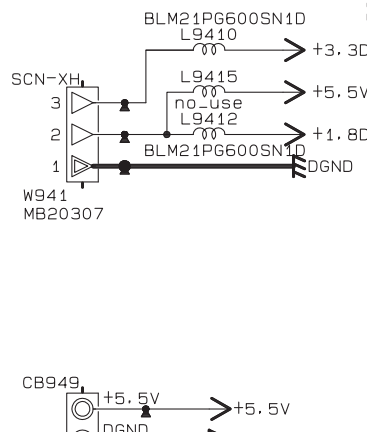
2

3

4

5

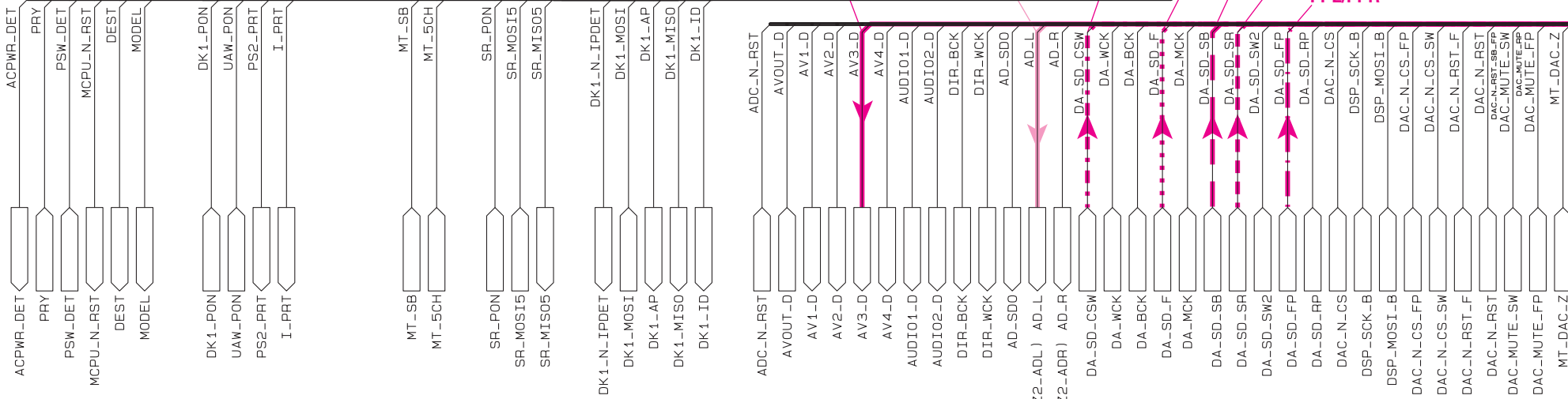
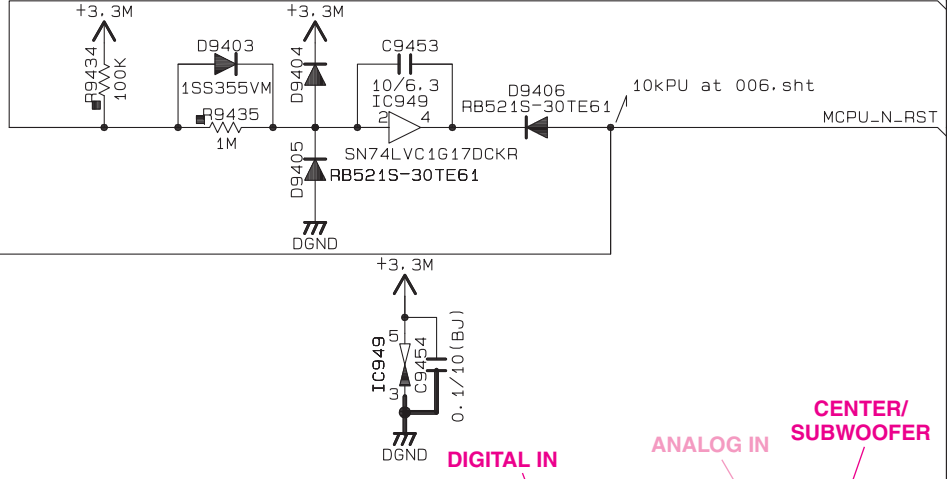
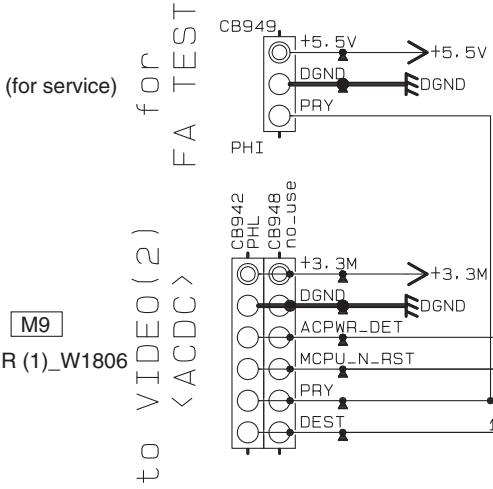
TEST





(Y)..... CHINA
(K)..... KOREA
(A)..... AUSTRALIA
(B)..... BRITISH
(G)..... EUROPE
(L)..... SINGAPORE
(E)..... SOUTH EUROPE
(V)..... TAIWAN
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

Page 142 M9
to AMPPOWER (1)_W1806



to 006.sht(u-com)
to DIGITAL1 6/9

to 008.sht(DSP)
to DIGITAL1 8/9

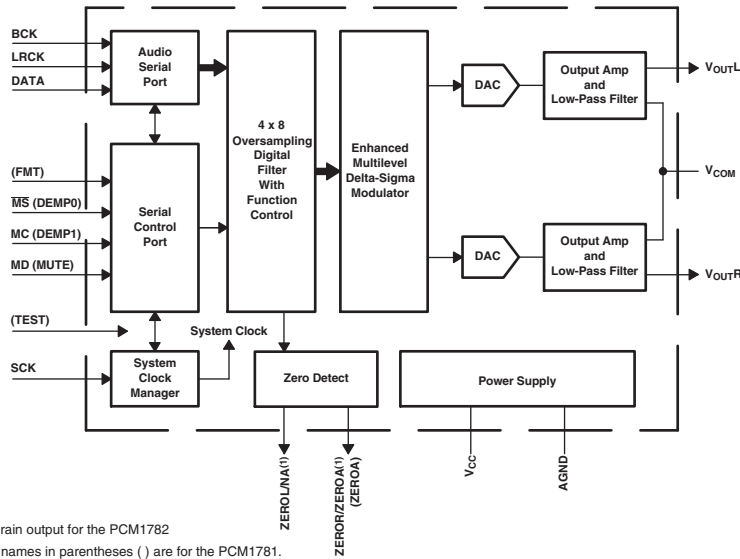
DIGITAL1 (1)

DIGITAL9:DOCK

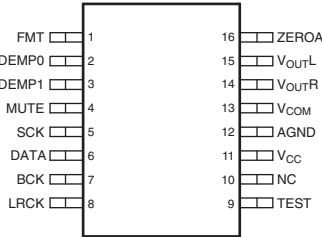
- ★ Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
- ★ Schematic diagram is subject to change without notice.

- Δ 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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IC941: PCM1781DBQR
Audio digital-to-analog converter



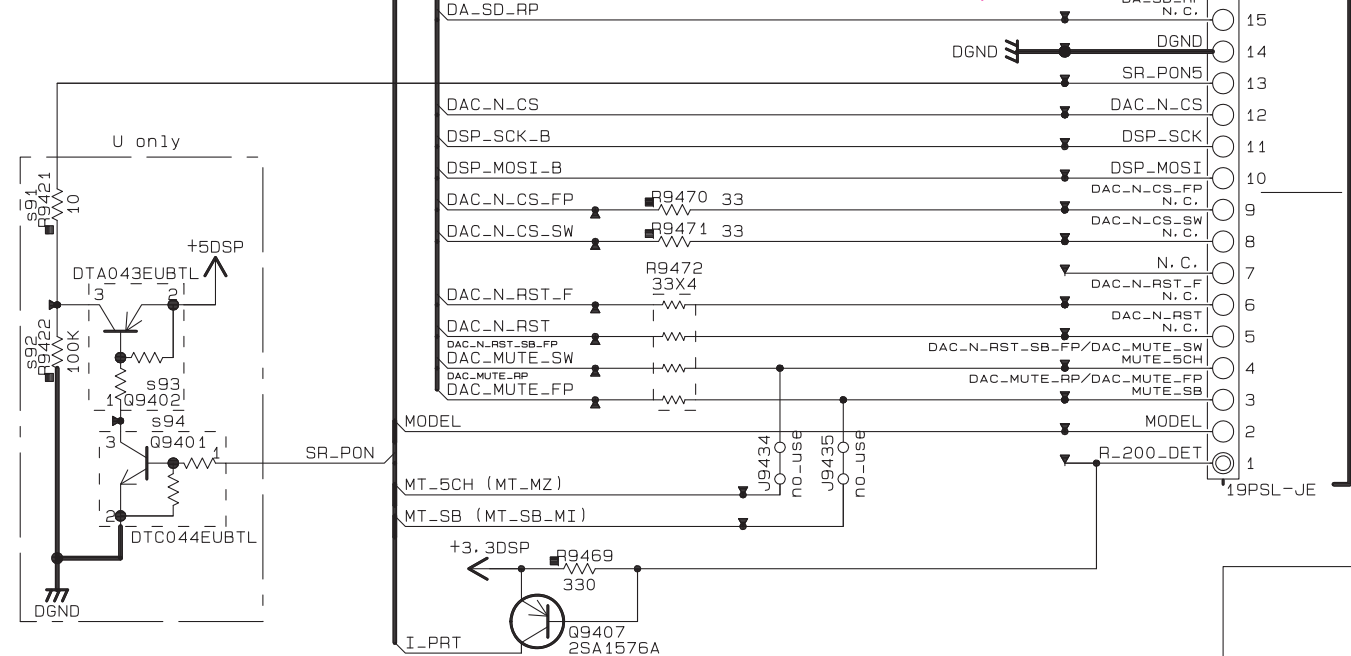
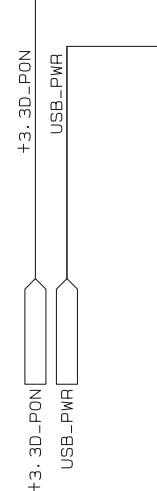
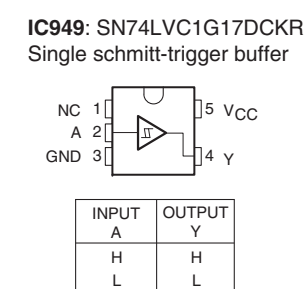
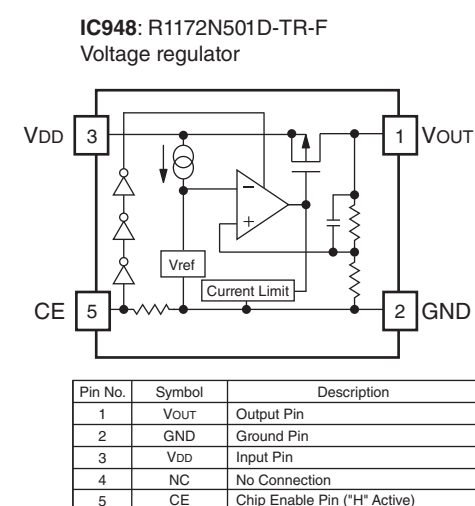
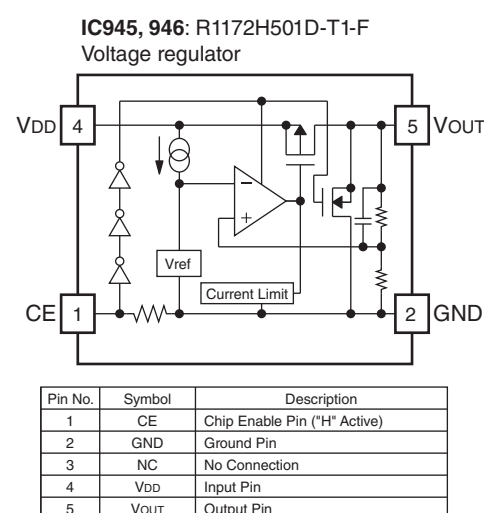
(1) Open-drain output for the PCM1782
NOTE: Signal names in parentheses () are for the PCM1781.



RX-A3010/RX-V3071

A	B
C	D

DIGITAL1 9/9

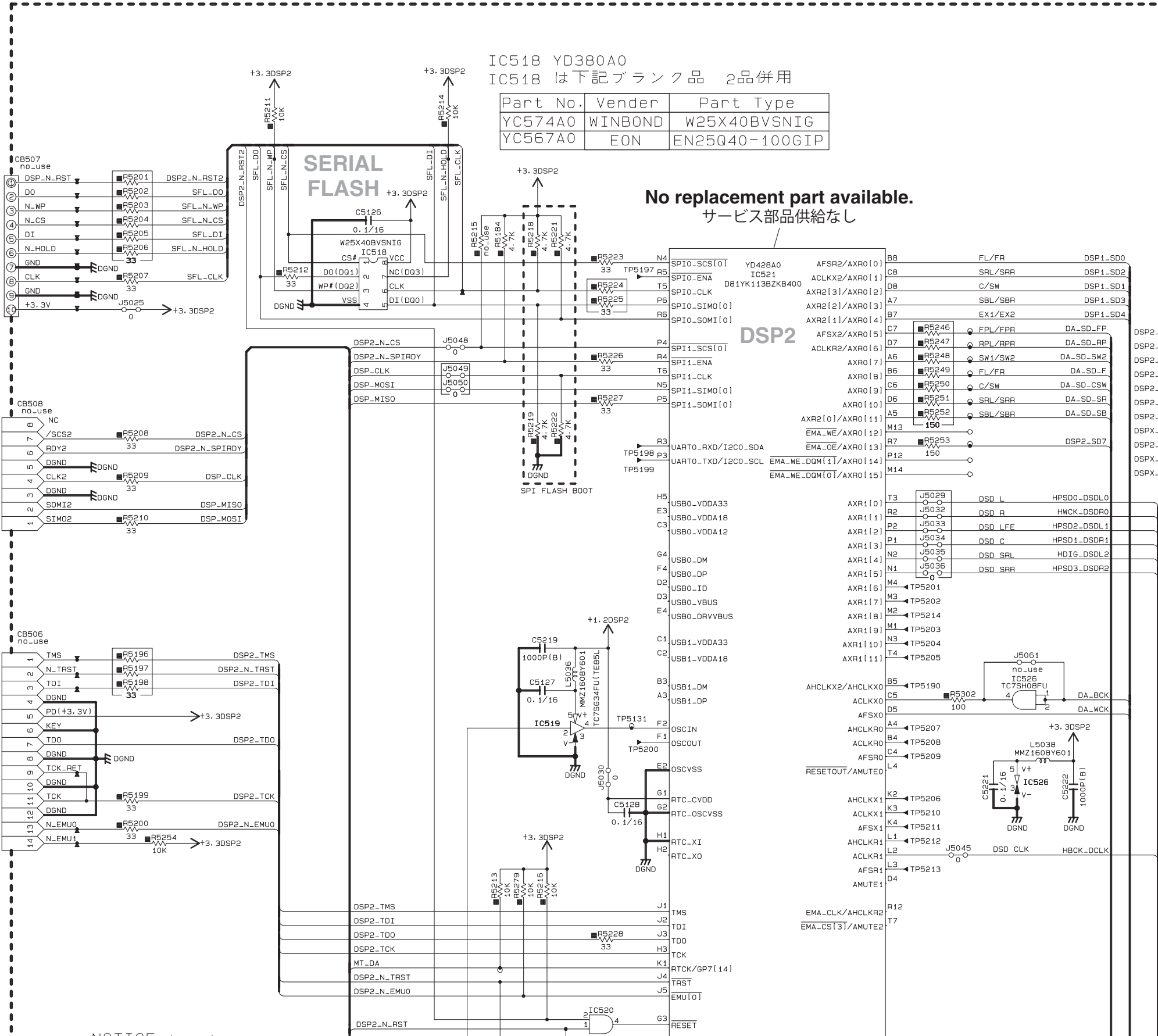
Page 139 H7
to OPERATION (2) W4502[illegible]

A	B
C	D

A	B
C	D

RX-A3010/RX-V3071

DIGITAL2



DSP2_EMB_A[0]	
DSP2_EMB_A[1]	R5262
DSP2_EMB_A[2]	47X4
DSP2_EMB_A[3]	
DSP2_EMB_A[4]	
DSP2_EMB_A[5]	R5263
DSP2_EMB_A[6]	47X4
DSP2_EMB_A[7]	
DSP2_EMB_A[8]	
DSP2_EMB_A[9]	R5264
DSP2_EMB_A[10]	47X4
DSP2_EMB_A[11]	

DSP2_EMB_BA0	R527
DSP2_EMB_BA1	R527

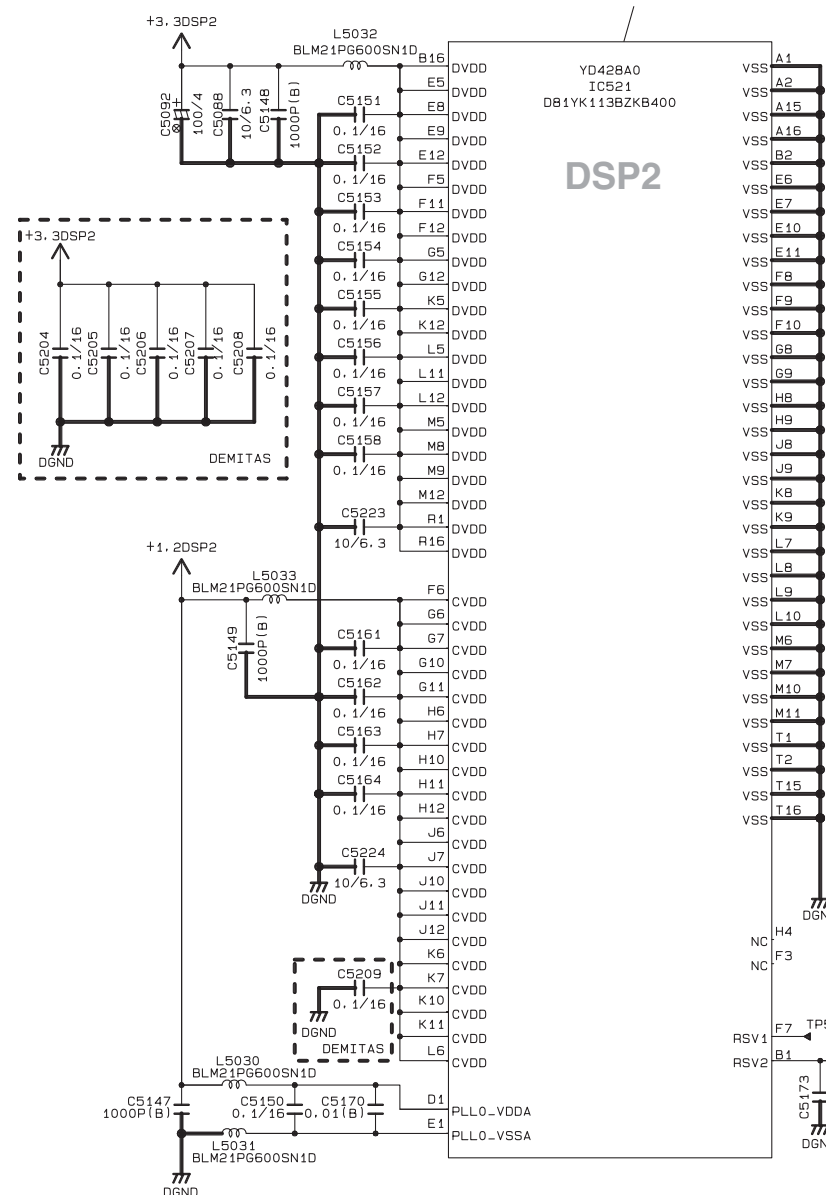
DSP2_EMB_N_CS	
DSP2_EMB_N_RAS	R5265
DSP2_EMB_N_CAS	47X4
DSP2_EMB_N_WE	
DSP2_EMB_S0CKE	R527
DSP2_EMB_SDCLK	R527
DSP2_EMB_DQM0	
DSP2_EMB_DQM1	R5266
DSP2_EMB_DQM3	47X4
DSP2_EMB_DQM2	

DSP2_EMB_D[0]	
DSP2_EMB_D[1]	R5267
DSP2_EMB_D[2]	47X4
DSP2_EMB_D[3]	
DSP2_EMB_D[4]	
DSP2_EMB_D[5]	R5268
DSP2_EMB_D[6]	47X4
DSP2_EMB_D[7]	
DSP2_EMB_D[8]	
DSP2_EMB_D[9]	R5269
DSP2_EMB_D[10]	47X4
DSP2_EMB_D[11]	
DSP2_EMB_D[12]	
DSP2_EMB_D[13]	R5270
DSP2_EMB_D[14]	47X4
DSP2_EMB_D[15]	
DSP2_EMB_D[16]	
DSP2_EMB_D[17]	R5271
DSP2_EMB_D[18]	47X4
DSP2_EMB_D[19]	
DSP2_EMB_D[20]	
DSP2_EMB_D[21]	R5272
DSP2_EMB_D[22]	47X4
DSP2_EMB_D[23]	
DSP2_EMB_D[24]	
DSP2_EMB_D[25]	R5273
DSP2_EMB_D[26]	47X4
DSP2_EMB_D[27]	
DSP2_EMB_D[28]	
DSP2_EMB_D[29]	R5274
DSP2_EMB_D[30]	47X4
DSP2_EMB_D[31]	



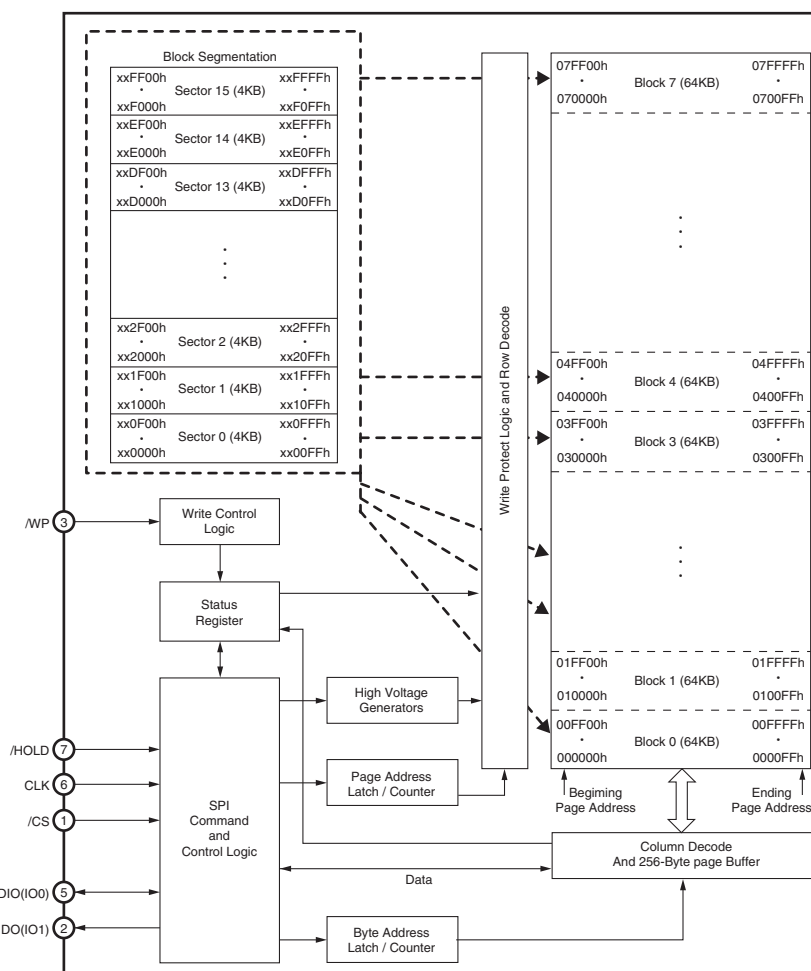
DIGITAL2: DSP2

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



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

4 M-bit serial flash memory



A	Y
L	L
H	H

IN B 1 5 VCC
IN A 2
GND 3 4 OUT Y

A	B
C	D

- ★ 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.

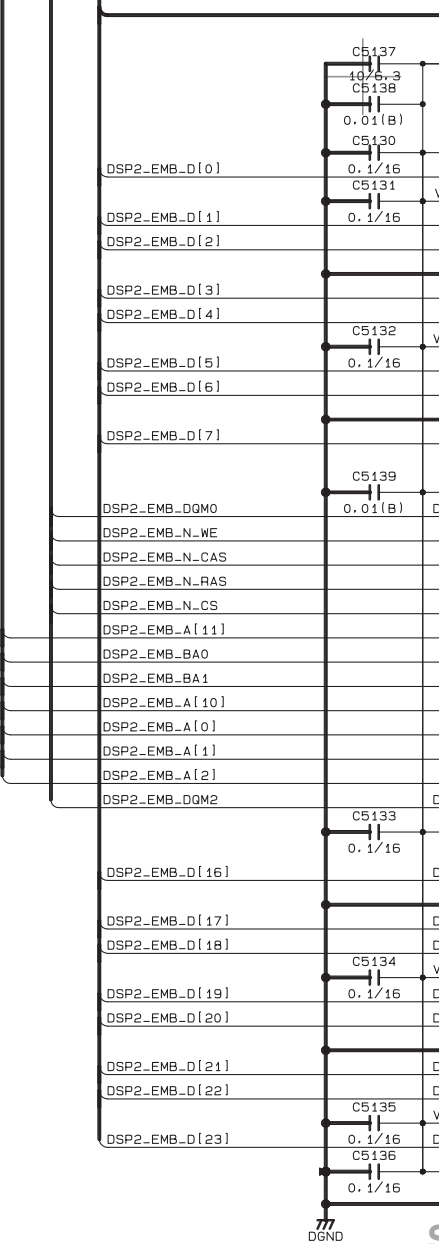
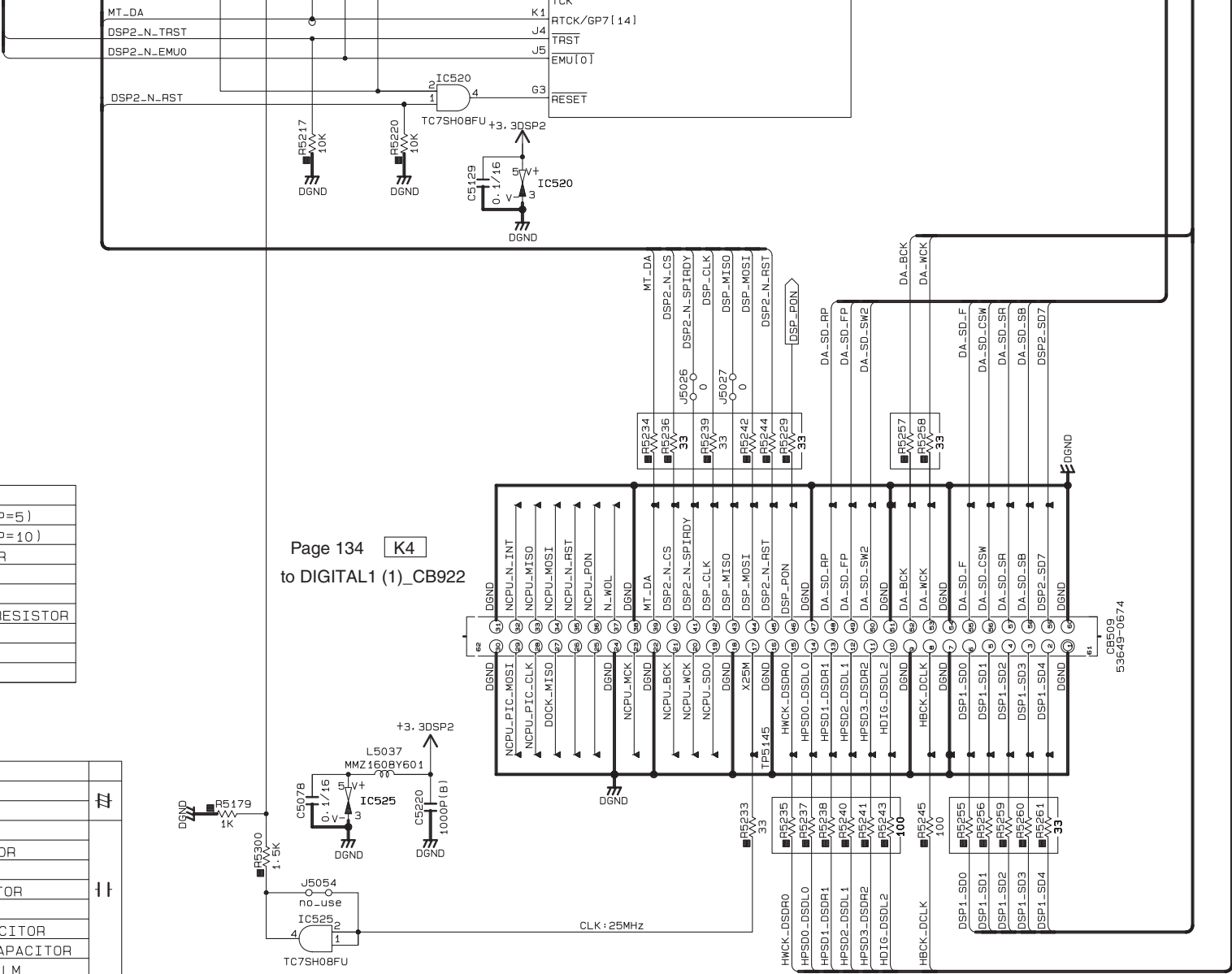
- △印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
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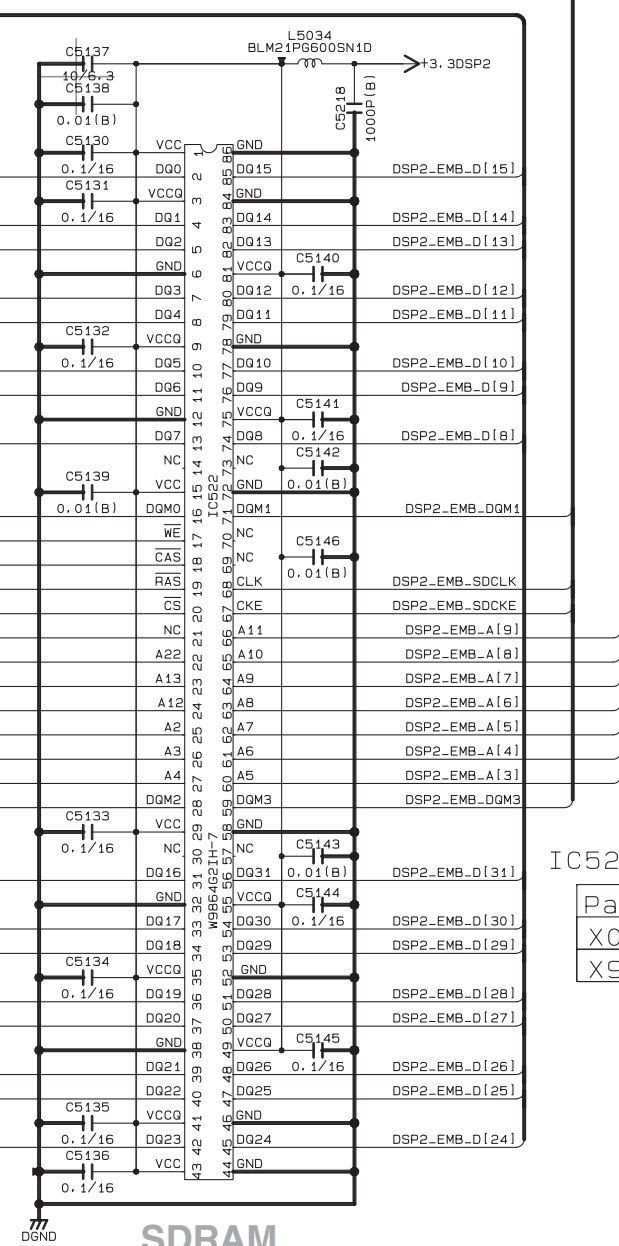
NOTICE (model)
(J)..... JAPAN
(U)..... U.S. A
(C)..... CANADA
(R)..... GENERAL
(T)..... CHINA
(K)..... KOREA
(A)..... AUSTRALIA
(B)..... BRITISH
(G)..... EUROPE
(L)..... SINGAPORE
(E)..... SOUTH EUROPE
(V)..... TAIWAN
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
□	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
▨	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊗	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR		
REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	≡
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	⊞
●	CERAMIC TUBULAR CAPACITOR	
◎	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
⊖	MICA CAPACITOR	
Ⓟ	POLYPROPYLENE FILM CAPACITOR	
⊙	SEMICONDUCTIVE CERAMIC CAPACITOR	
Ⓢ	POLYPHENYLENE SULFIDE FILM CAPACITOR	

Page 134 K4
to DIGITAL1 (1)_CB922





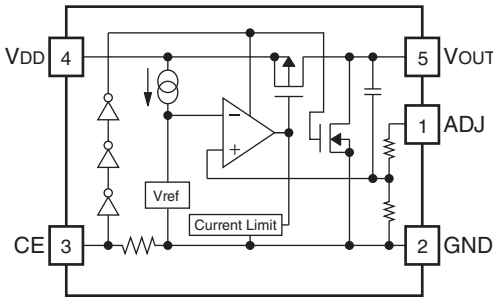
SDRAM

IC522 は下記2品併用

Part No.	Vender	Part Type
X0176D0	WINBOND	W9864G2IH-7
X9150B0	ESMT	M12L64322A-6TG2U

WY50620 : ALL R, C, D, L, J : 5001-5999
other : 501-599

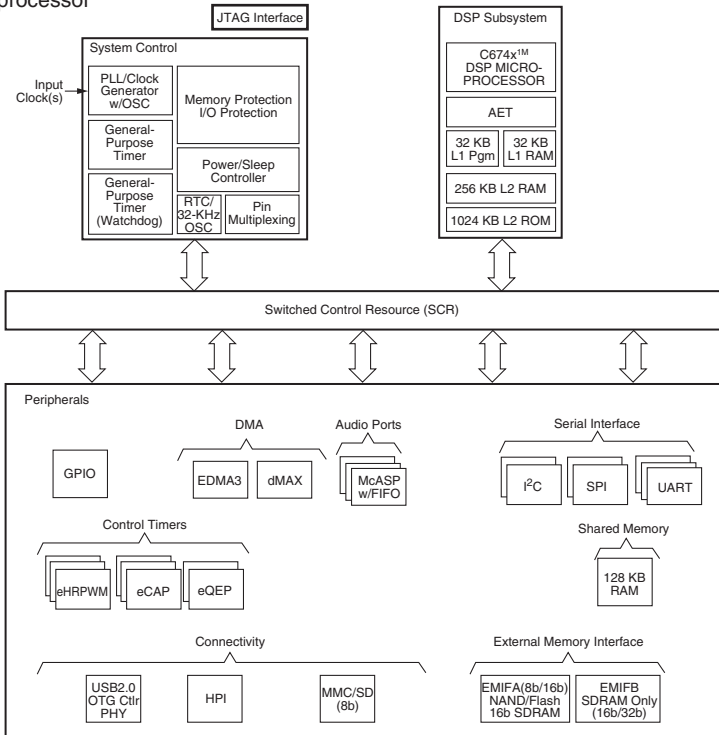
IC523: R1173H001D-T1-FE
Voltage regulator



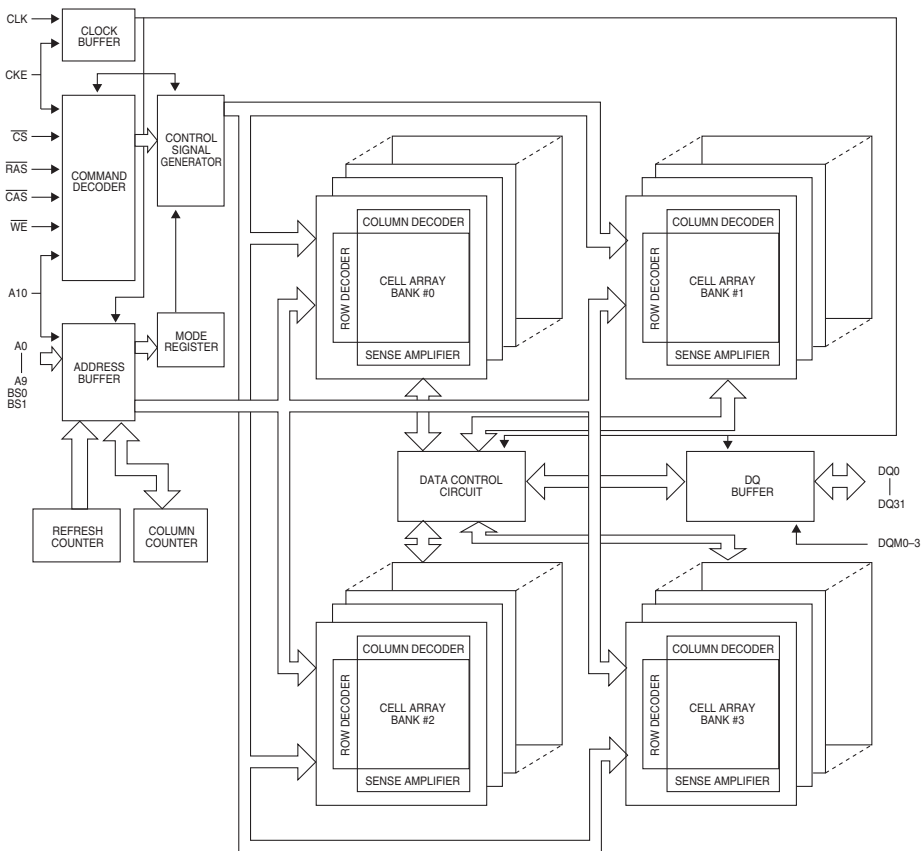
Pin No.	Symbol	Description
1	ADJ	ADJ Pin
2	GND	Ground Pin
3	CE	Chip Enable Pin
4	VDD	Input Pin
5	VOUT	Output Pin

Page 135 B3
to DIGITAL1 (1)_W941

IC521: D81YK113BZKB400
Digital signal processor



IC522: W9864G2IH-7
128/64 M SDRAM



RX-A3010/RX-V3071

A	B
C	D

DIGITAL2

A	B
C	D

FUNCTION 1/2

Page 146 D9
to DAC_CB859

Page 146 F9
to DAC_CB860

Page 146 G9
to DAC_CB861

A

B

C

D

E

F

G

1

2

3

4

5

— PHONO —

— AV 1 —

— AV 2 —

— AV 3 —

— AV 4 —

— AV OUT —

PHONO EQ

ANALOG IN

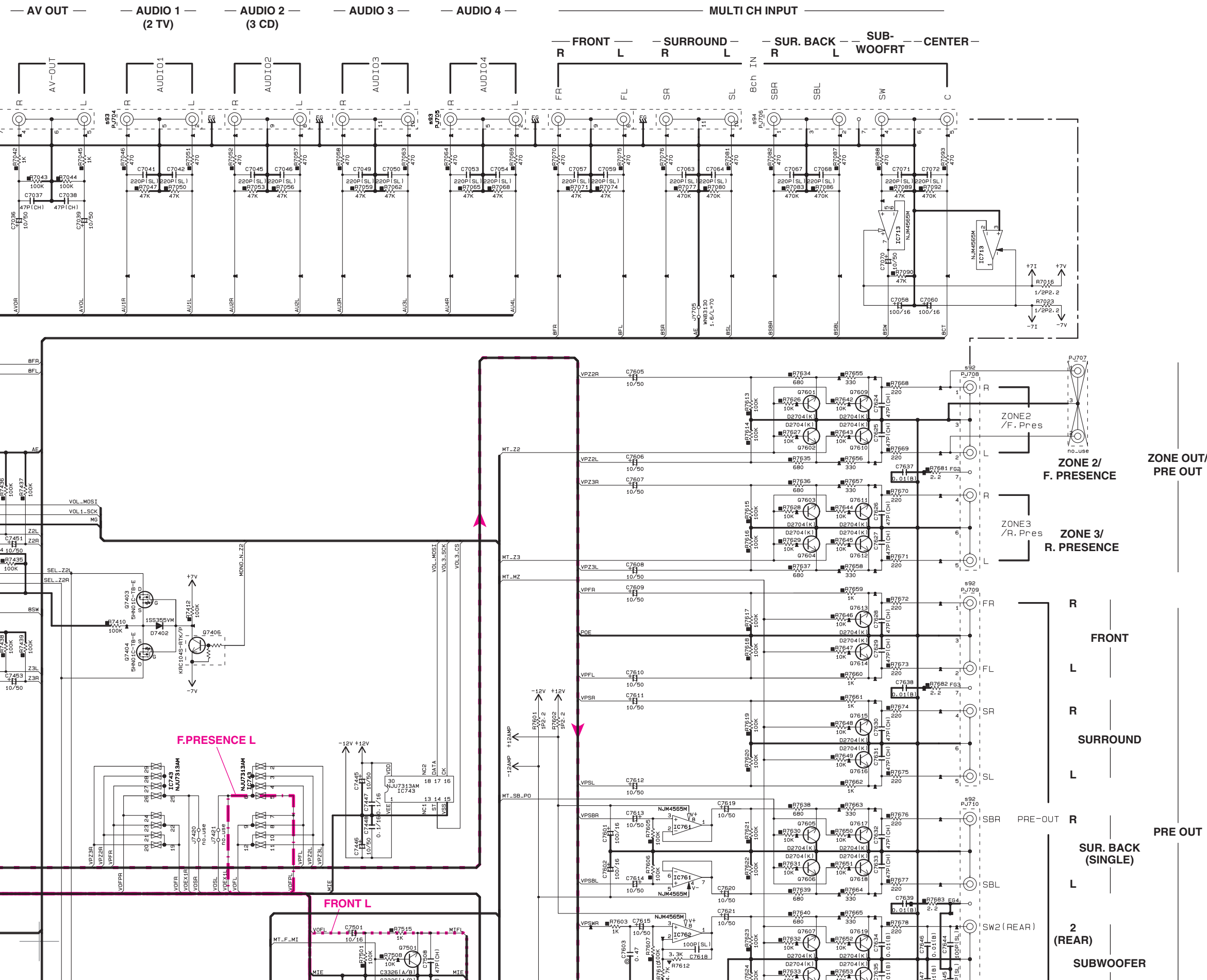
FRONT L

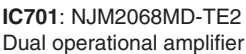
SURROUND L

SURROUND BACK L

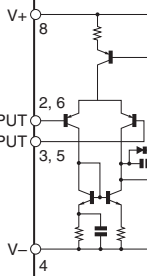
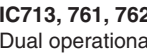
IC741
YA361B0
R2A15220FP

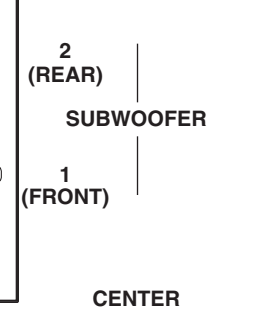
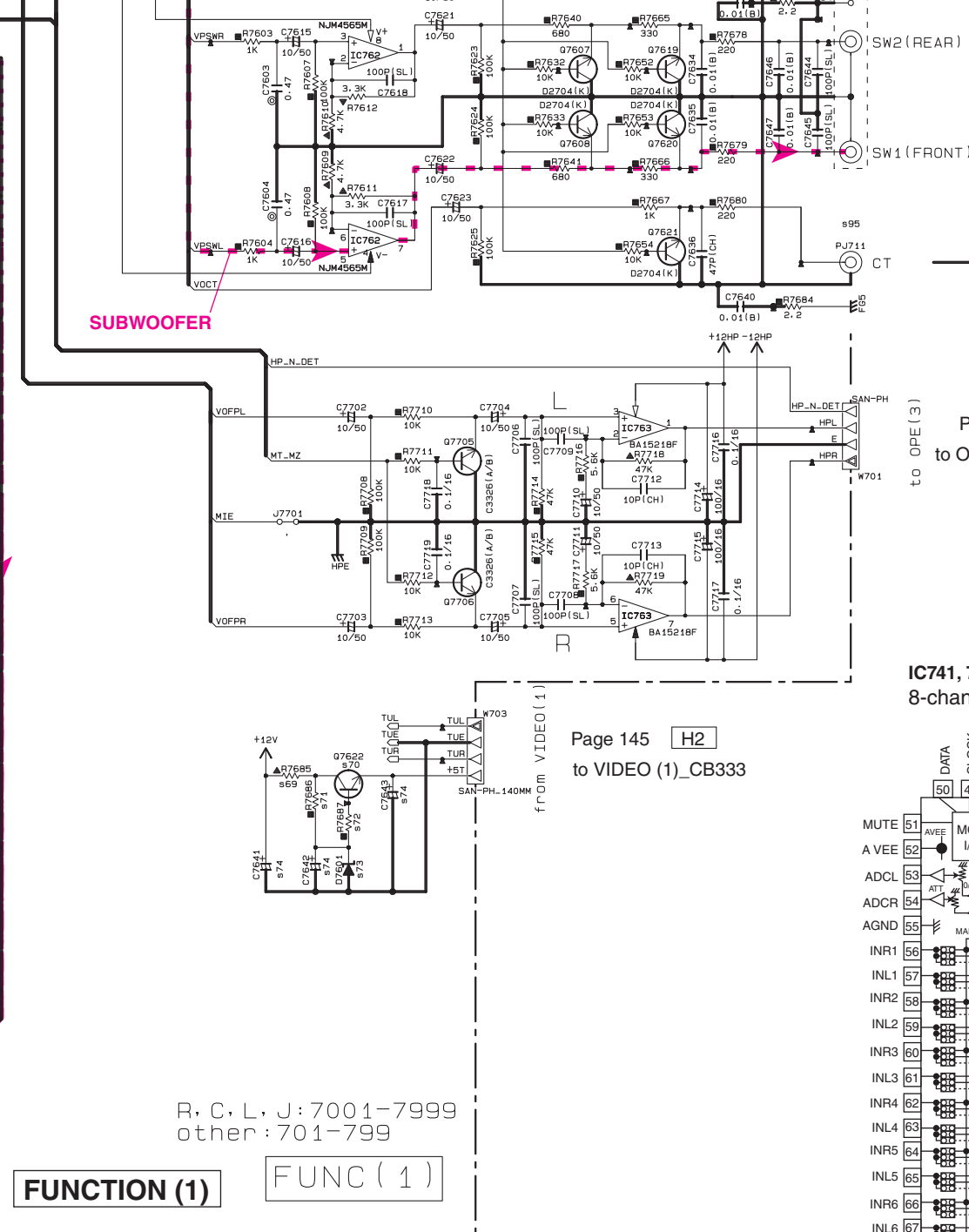
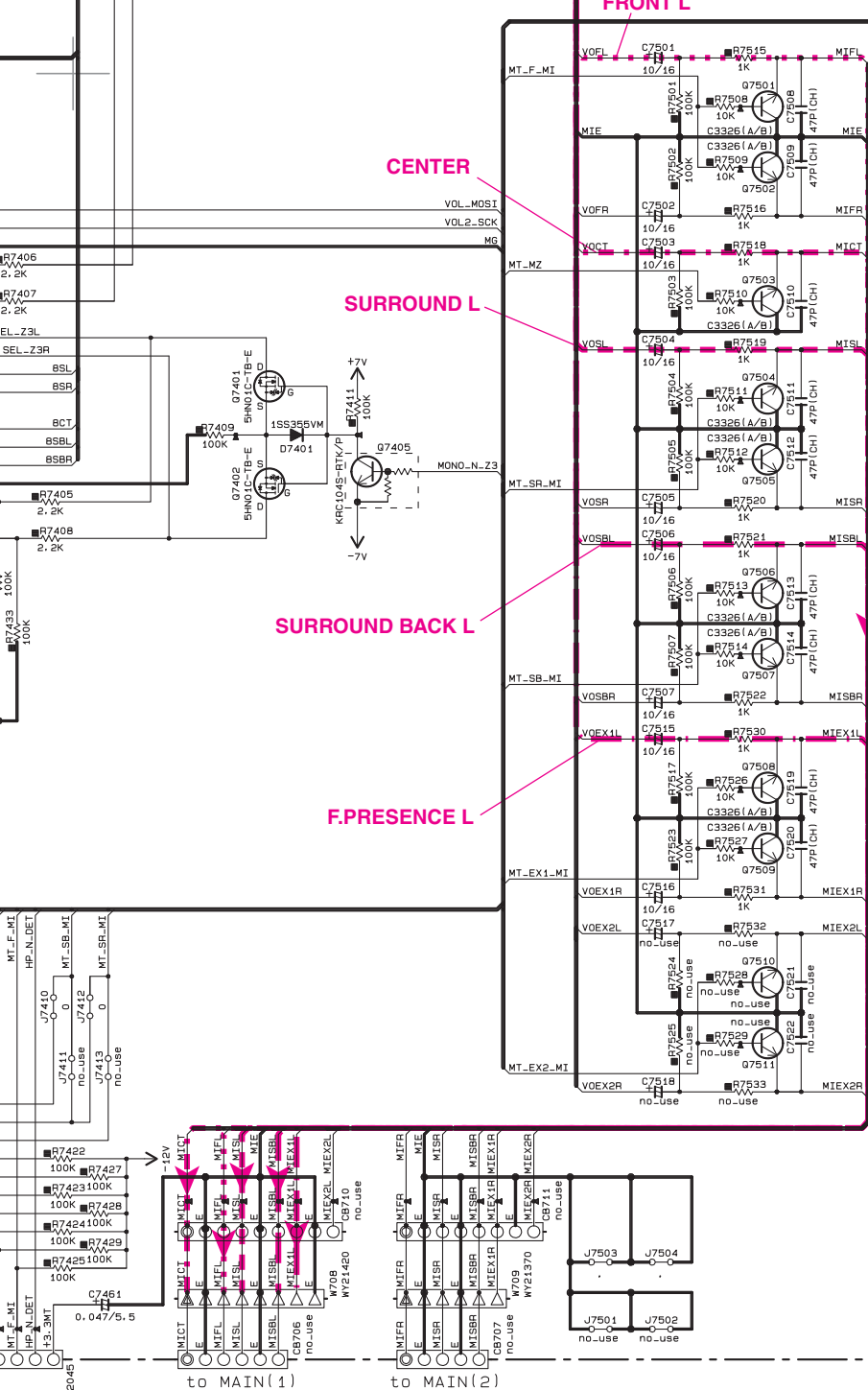
PWS : 9464



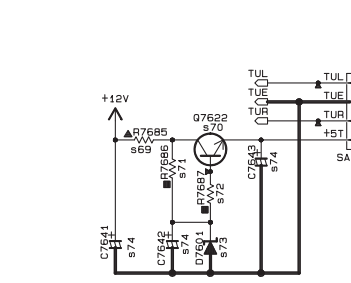


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Page 139 **H6**
to OPERATION (2)_CB454



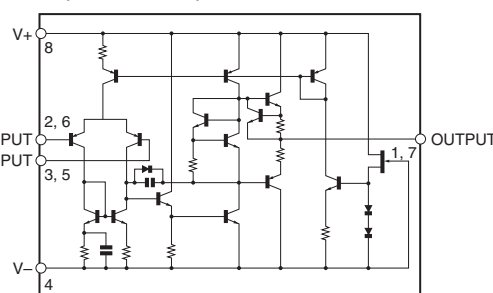
Page 145 **H2**
to VIDEO (1)_CB333

R, C, L, J: 7001-7999
other: 701-799

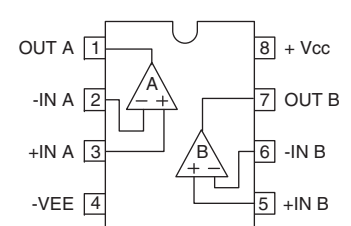
FUNCTION (1) **FUNC (1)**

Page 140 **H3** Page 140 **B9**
to AMP (1)_CB113 to AMP (2)_CB112

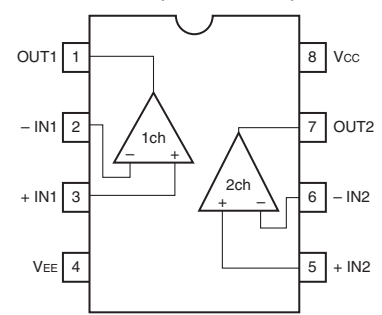
IC713, 761, 762: NJM4565M (TE1)
Dual operational amplifier



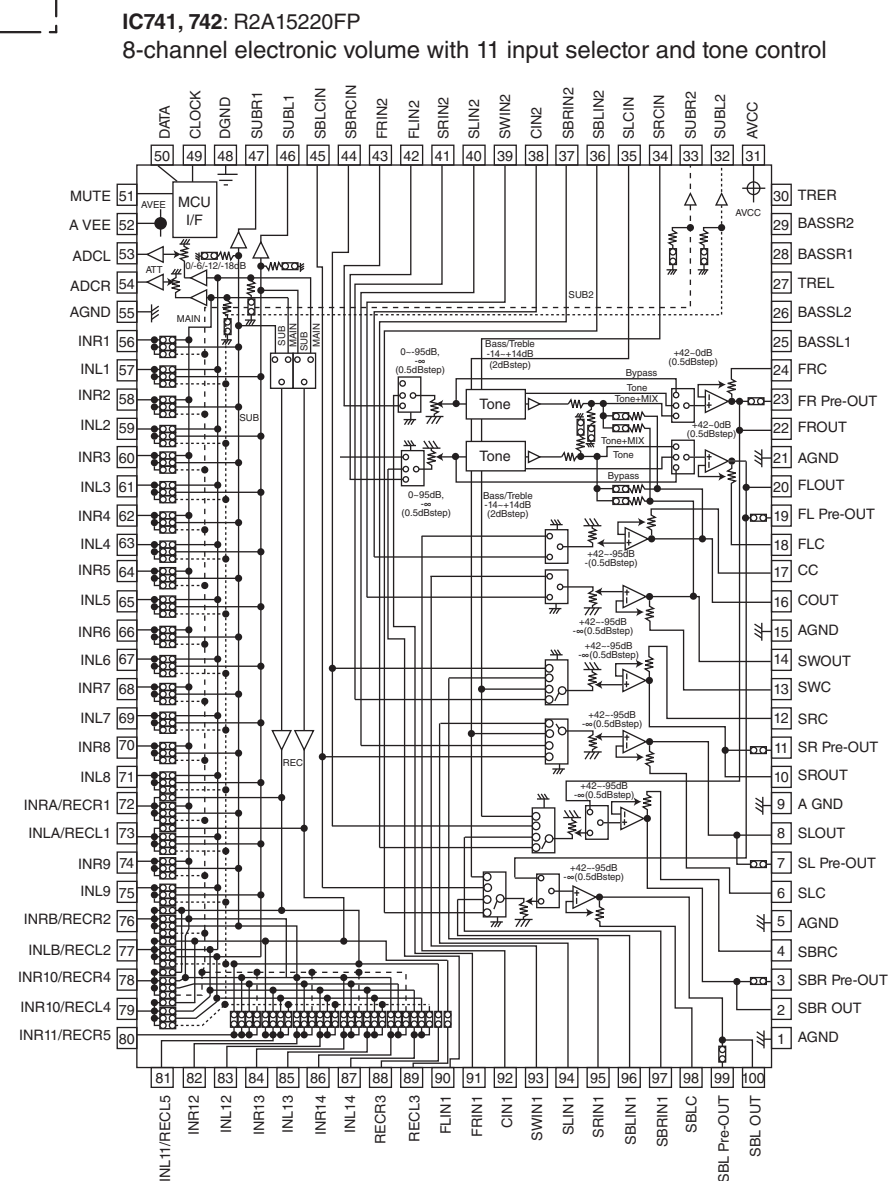
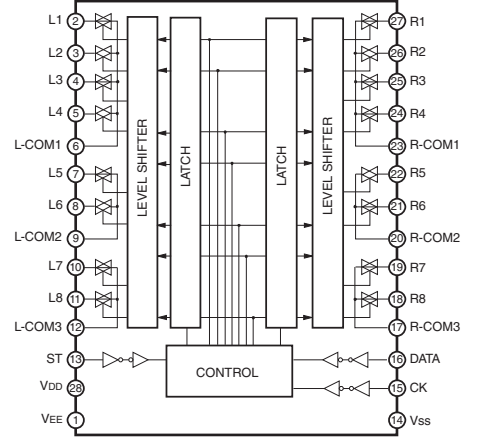
IC724, 726-728: LM833MX
Operational amplifier



IC763: BA15218F
Dual high slew rate,
low noise operational amplifier



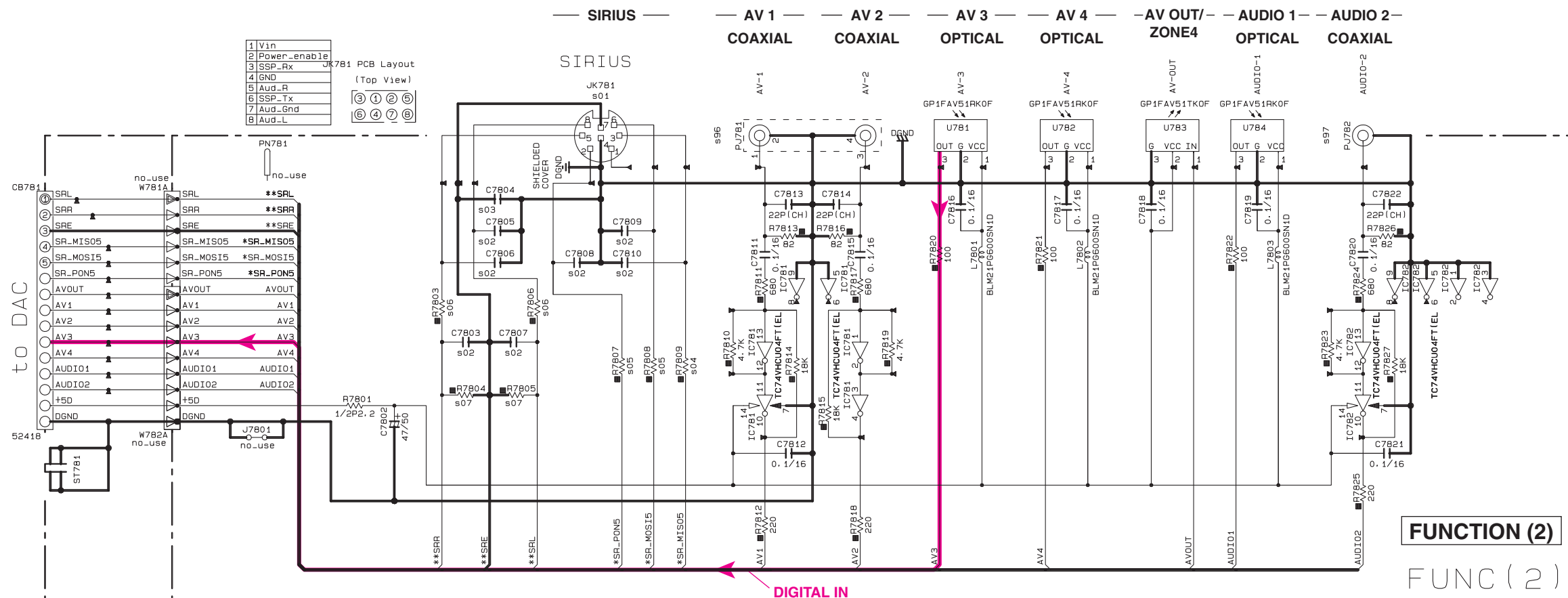
IC743: NJU7313AM
Analog function switch



A	B
C	D

FUNCTION 2/2

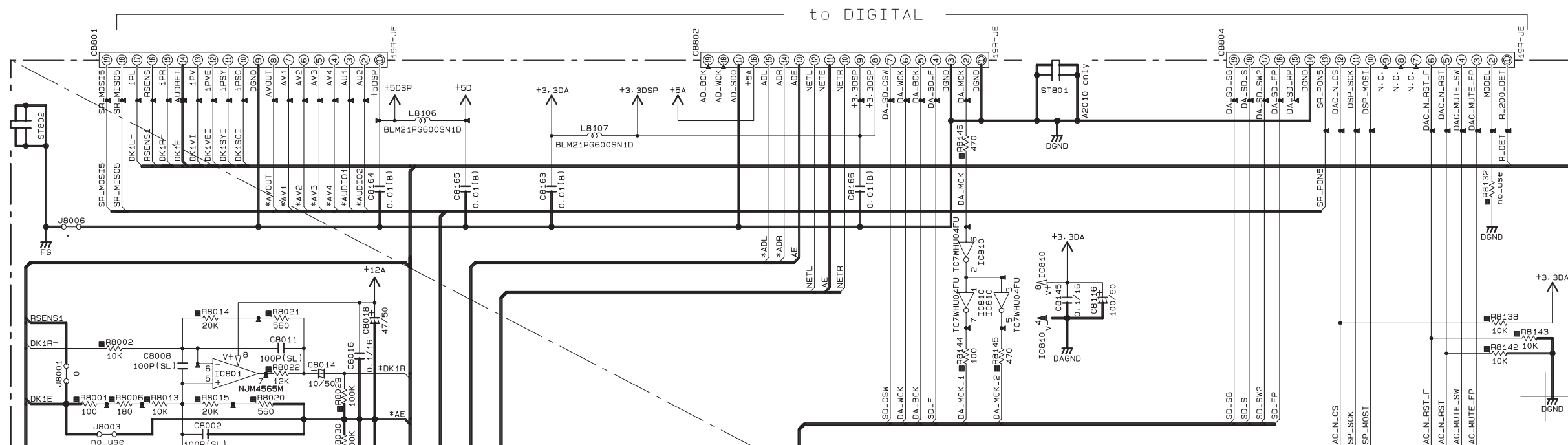
Page 146 B9
to DAC_CB858



RESISTOR	
REMARKS	
NO MARK	CARB
	CARB
	META
	META
	META
	FIRE
	CEME
	SEMI
	CHIP

CAPACITOR	
REMARKS	
NO MARK	ELECTROLYTIC
⊗	TANTALUM
NO MARK	CERAMIC
●	CERAMIC
⊙	POLYMER
○	POLYMER
⌚	MICA
Ⓟ	POLYMER
⊕	SEMI-CONDUCTOR
Ⓢ	POLYMER CAPACITOR

NOTI
(J).....
(U).....
(C).....
(R).....
(T).....
(K).....
(A).....
(B).....
(G).....
(L).....
(E).....
(V).....
(F).....
(P).....
(S).....
(H).....



A	B
C	D

H	I	J	K	L	M	N
---	---	---	---	---	---	---

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
	CARBON FILM RESISTOR (P=10)
	METAL OXIDE FILM RESISTOR
	METAL FILM RESISTOR
	METAL PLATE RESISTOR
	FIRE PROOF CARBON FILM RESISTOR
	CEMENT MOLDED RESISTOR
	SEMI VARIABLE RESISTOR
	CHIP RESISTOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	
	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	
	CERAMIC TUBULAR CAPACITOR	
	POLYESTER FILM CAPACITOR	
	POLYSTYRENE FILM CAPACITOR	
	MICA CAPACITOR	
	POLYPROPYLENE FILM CAPACITOR	
	SEMICONDUCTIVE CERAMIC CAPACITOR	
	POLYPHENYLENE SULFIDE FILM CAPACITOR	

NOTICE (model)

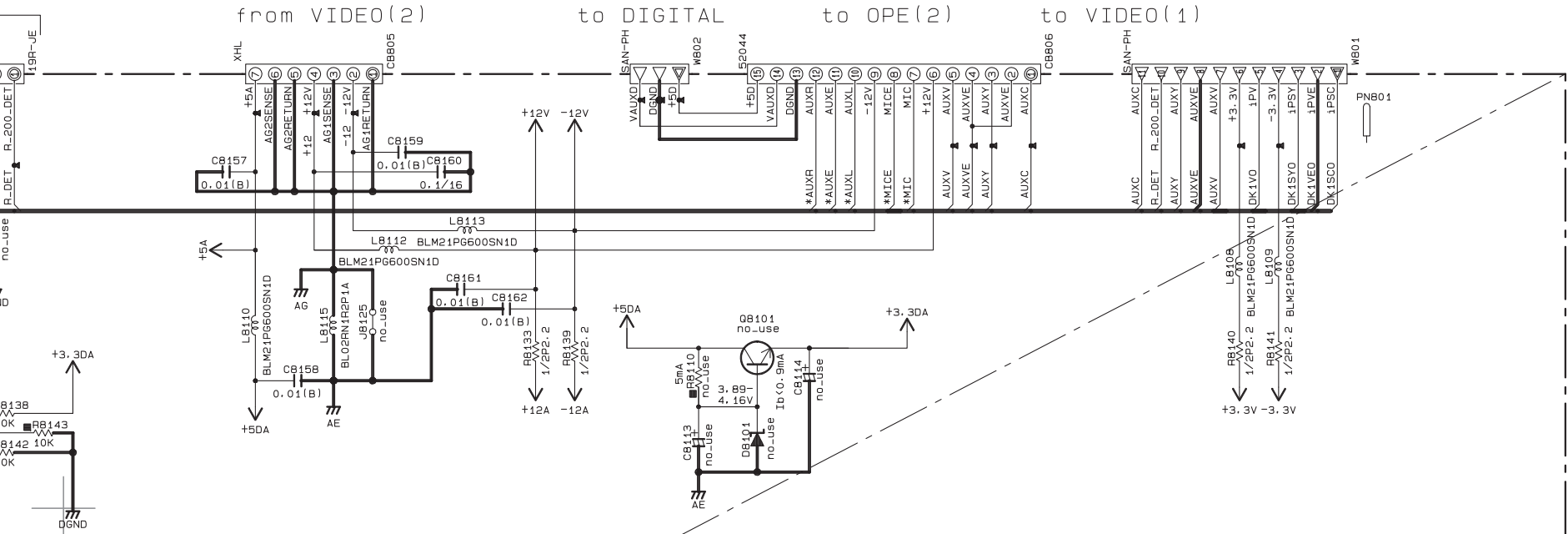
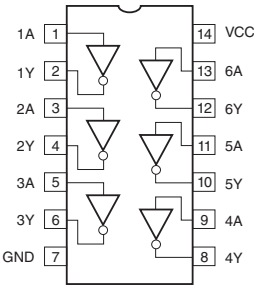
(J)..... JAPAN
(U)..... U.S.A
(C)..... CANADA
(R)..... GENERAL
(T)..... CHINA
(K)..... KOREA
(A)..... AUSTRALIA
(B)..... BRITISH
(G)..... EUROPE
(L)..... SINGAPORE
(E)..... SOUTH EUROPE
(V)..... TAIWAN
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

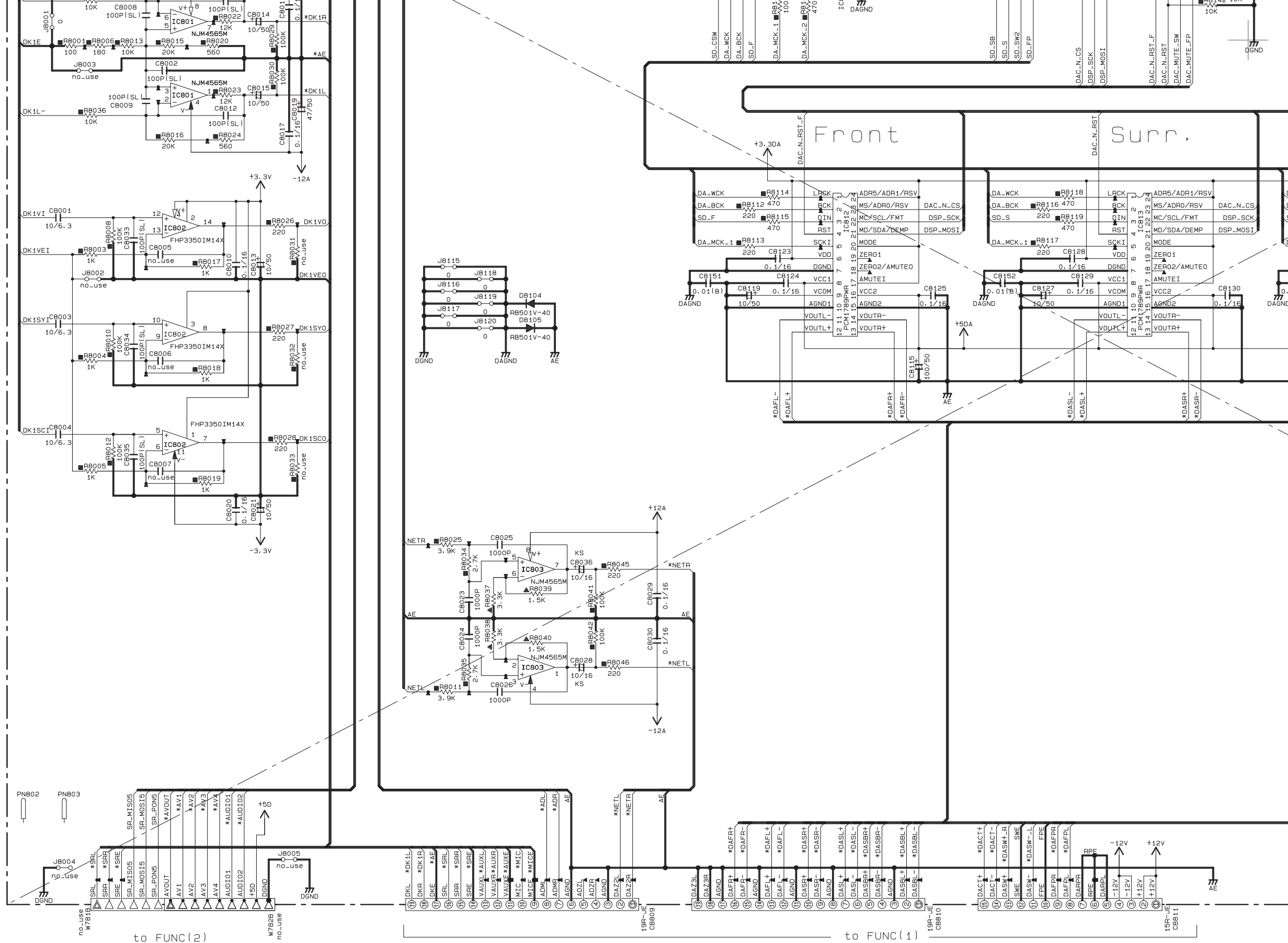
Destination Part List					
sXX	LOC	J	U	CRT	KABGLF
s1	JK781	X	VV26950 MD-S8130-90	X	X
s2	C7803 C7805-7810	X	US06222 220P(SL)	X	X
s3	C7804	X	US06310 1000P(B)	X	X
s4	R7809	X	RD35410 10	X	X
s5	R7807 R7808	X	RD35433 33	X	X
s6	R7803 R7806	X	RD35547 470	X	X
s7	R7804 R7805	X	RD35810 100K	X	X
s11	R7001 R7015	RD35447 47	RD35447 47	RD35447 47	RD35622 2.2K
s12	C7006 C7012	X	X	X	WJ60830 220P/100
s13	R7223 R7224	WQ07230 1P2.2	HF35322 1/2P2.2	WQ07230 1P2.2	WQ07230 1P2.2

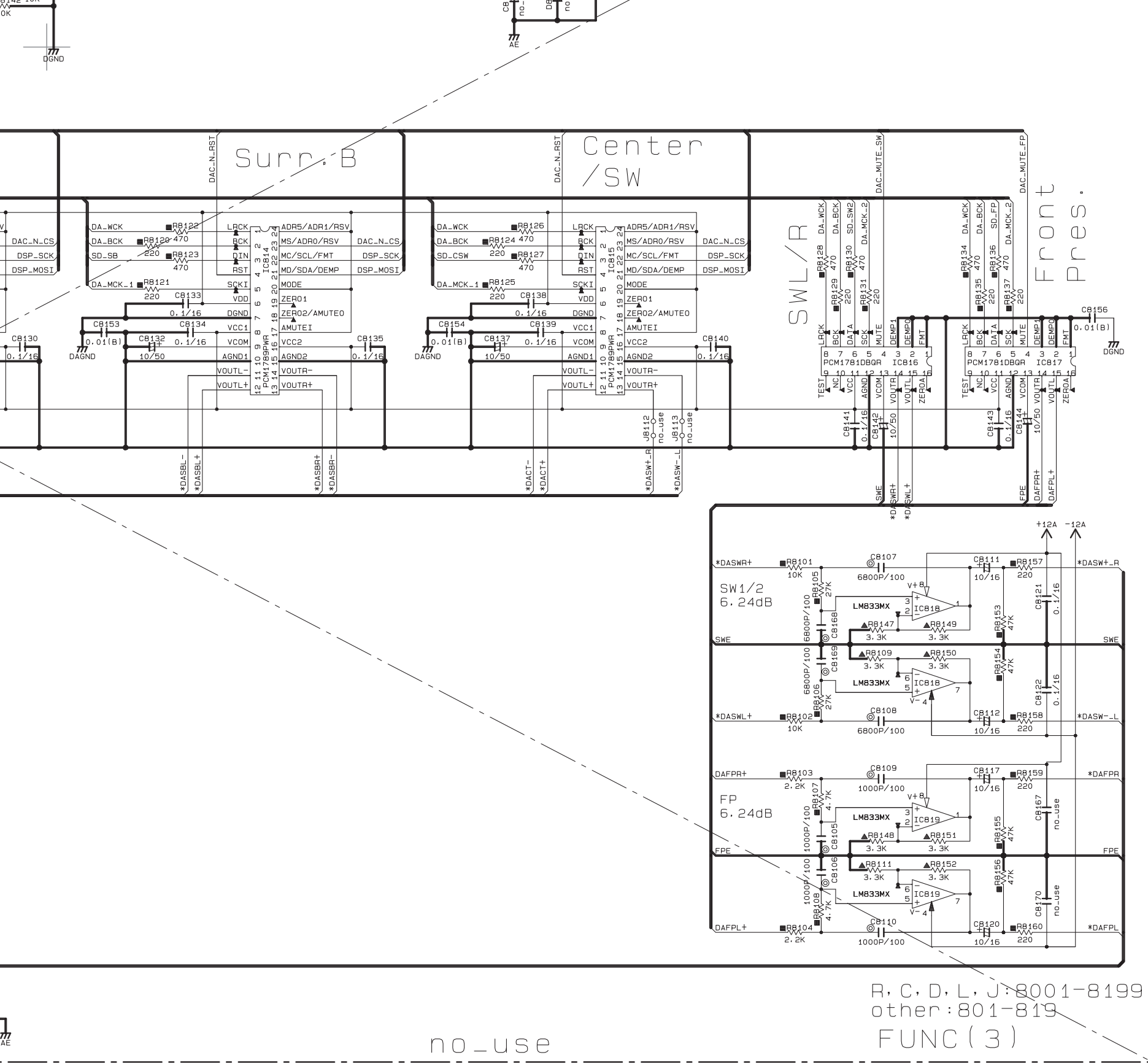
Destination Part List					
sXX	LOC	J	U	CRT	KABGLF
s69	R7685	WW96750 18	X	WW96750 18	WW96750 18
s70	Q7622	VP87270 C4488(S/T)	X	VP87270 C4488(S/T)	VP87270 C4488(S/T)
s71	R7686	RD35615 1.5K	X	RD35615 1.5K	RD35615 1.5K
s72	R7687	RD35510 100	X	RD35510 100	RD35510 100
s73	D7601	WY16330 UDZV5.6B	X	WY16330 UDZV5.6B	WY16330 UDZV5.6B
s74	C7641-7643	UR06747 47/50	X	UR06747 47/50	UR06747 47/50

Destination Part List					
sXX	LOC	J	U	CRT	KABGLF
s91	PJ701	V979680 MSP-244V6-03	V804130 MSP-244V6-01NI	V804130 MSP-244V6-01NI	V804130 MSP-244V6-01NI
s92	PJ702,703 PJ708-710	V979670 MSP-244V1-03	V704670 MSP-244V1-01NI	V704670 MSP-244V1-01NI	V704670 MSP-244V1-01NI
s93	PJ704 PJ705	WH23790 MSP-246V1-03	V704680 MSP-246V1-01NI	V704680 MSP-246V1-01NI	V704680 MSP-246V1-01NI
s94	PJ706	WU84990 MSP-244V1-33-G1	WR09560 MSP-244V1-19NI	WR09560 MSP-244V1-19NI	WR09560 MSP-244V1-19NI
s95	PJ711	WU84980 MSP-241V1-10-G1	V718970 MSP-241V1-01NI	V718970 MSP-241V1-01NI	V718970 MSP-241V1-01NI
s96	PJ781	VZ72640 YKC21-3936V	V571530 YKC21-4226	V571530 YKC21-4226	V571530 YKC21-4226
s97	PJ782	VZ28340 YKC21-3915V	V879570 MSP-251V-05NI	V879570 MSP-251V-05NI	V879570 MSP-251V-05NI

IC781, 782: TC74VHCU04FT
Hex inverters







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- ★ Schematic diagram is subject to change without notice.

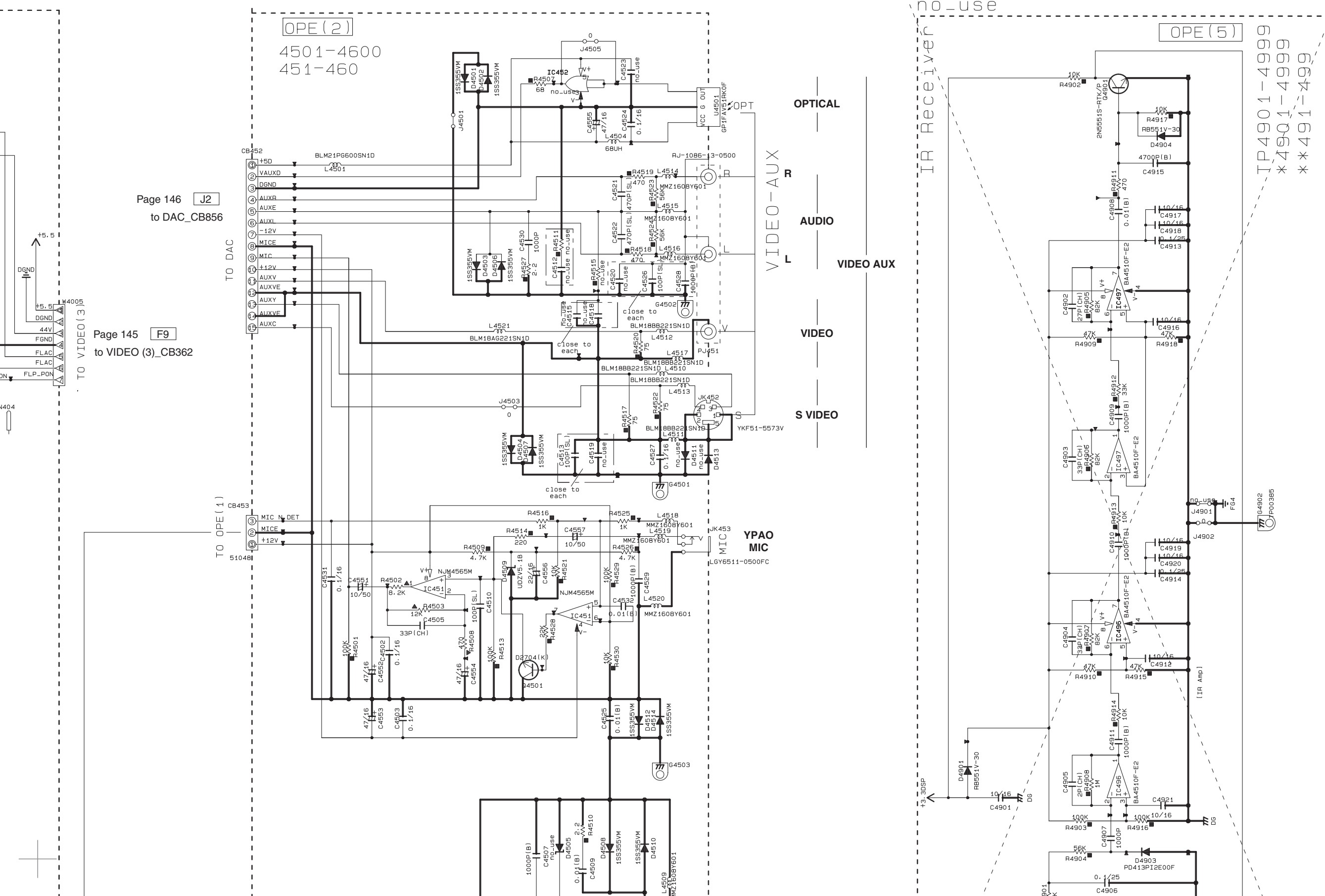
- Δ 印のある部品は、安全性確保部品を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
- 本回路図は標準回路図です。改良のため予告なく変更することがあります。

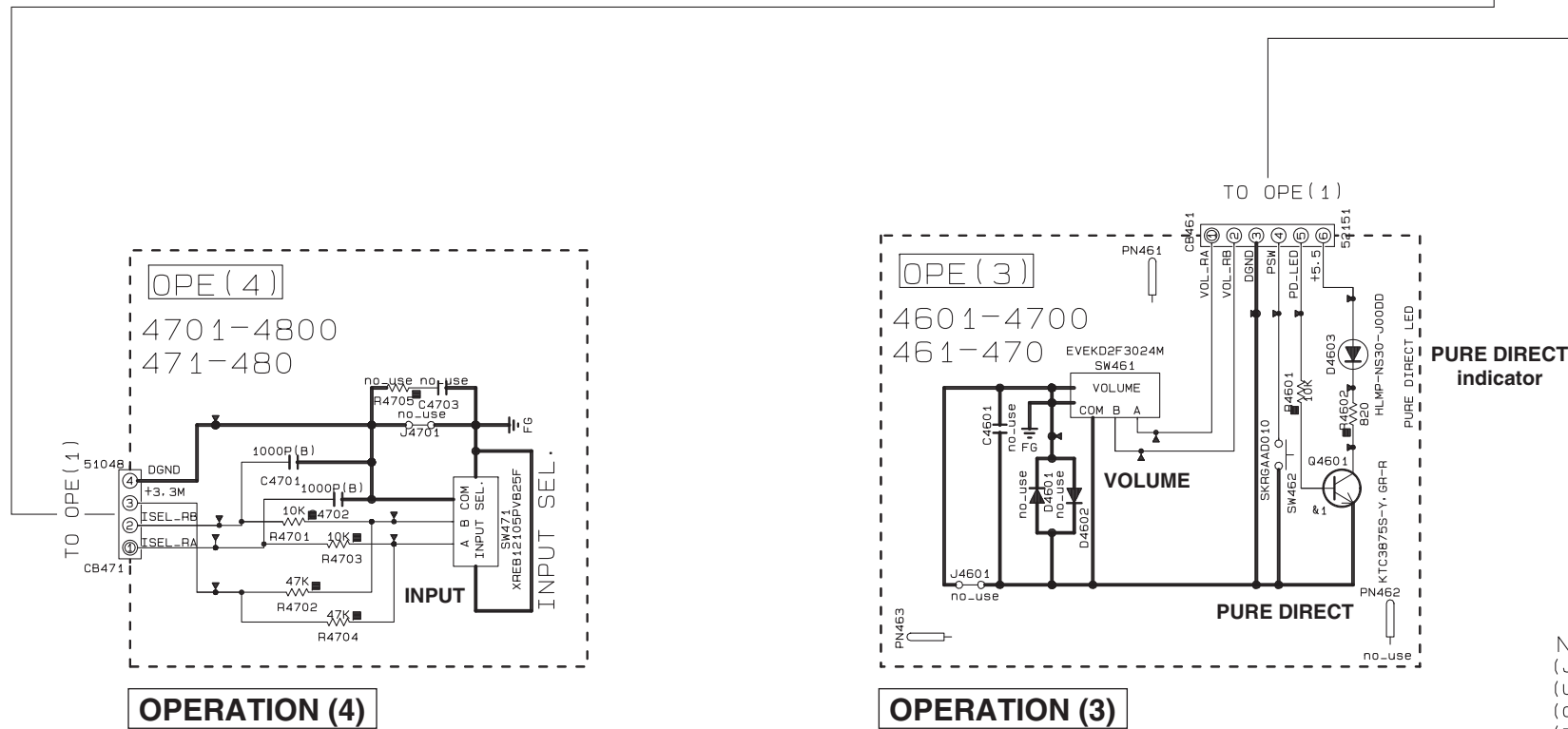
RX-A3010/RX-V3071

A	B
C	D

FUNCTION 2/2





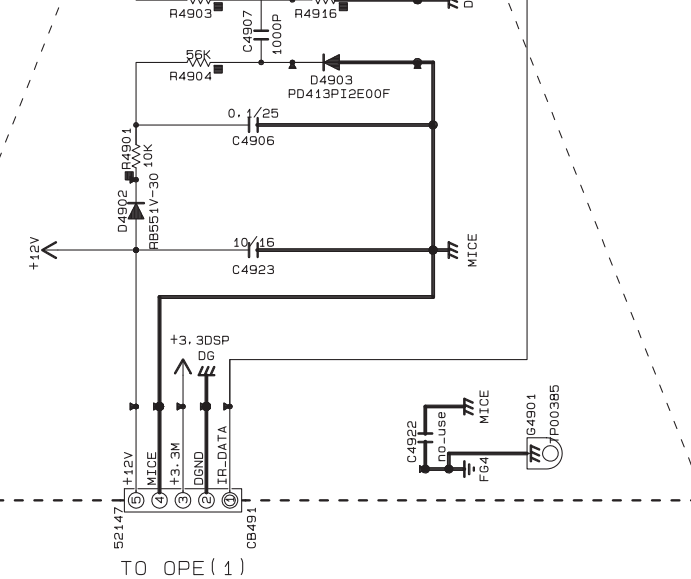
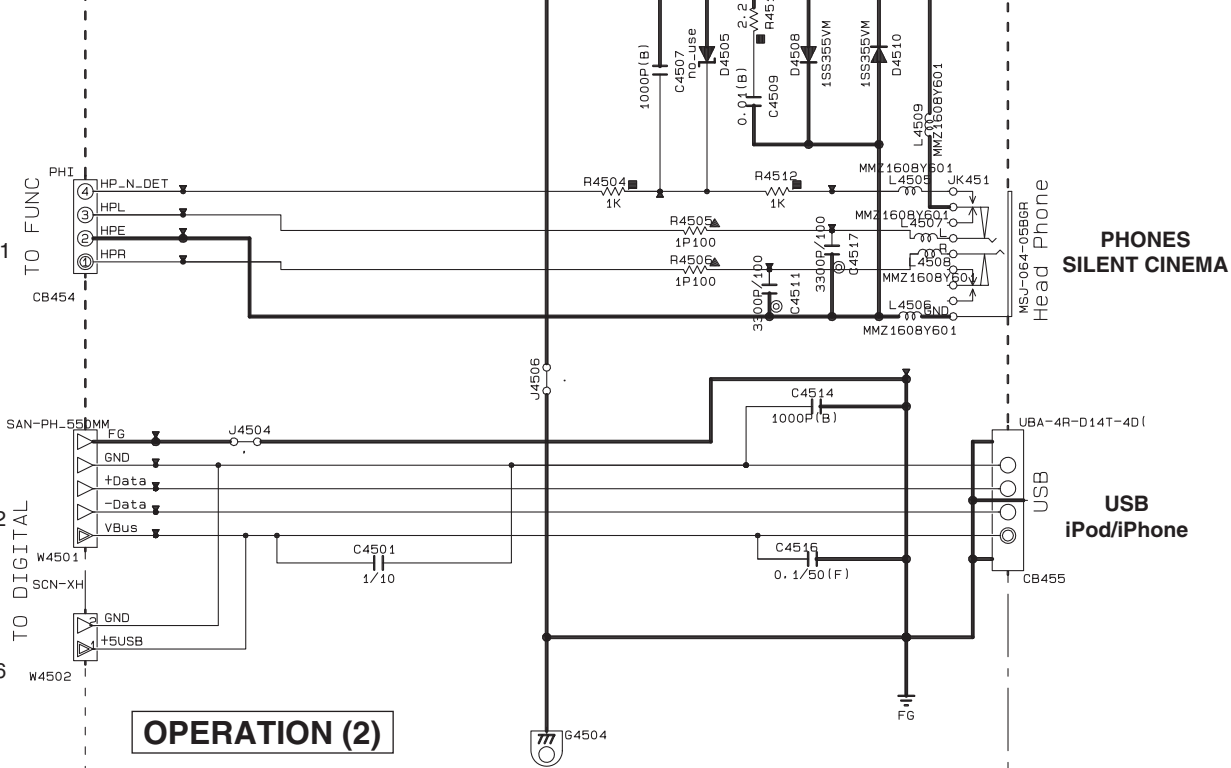
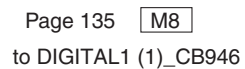
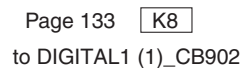
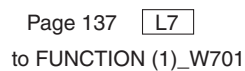


```

NOTICE      (model1)
(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
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

```

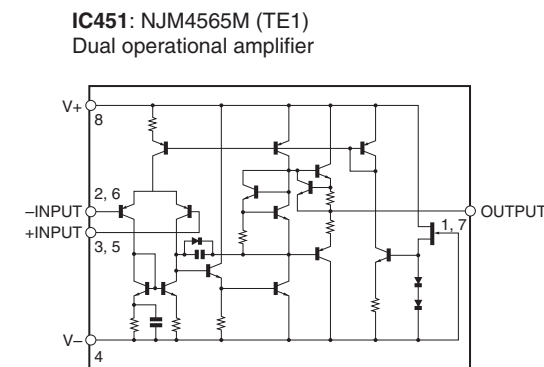
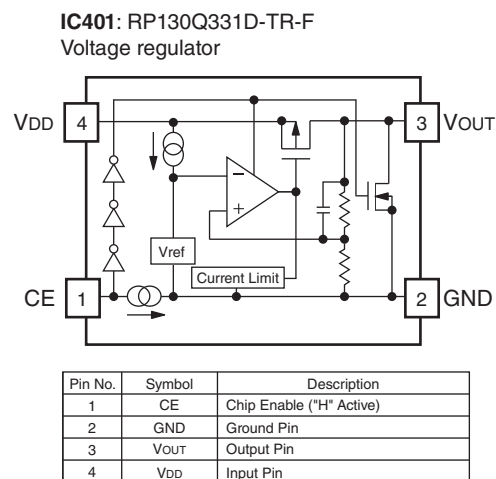
CAPACITOR	
REMARKS	PARTS N
	ELECTROLYTIC CAP
NO MARK	CERAMIC CAPACITO
	CERAMIC TUBULAR
	POLYESTER FILM C
	POLYSTYRENE FILM
	MICA CAPACITOR
	POLYPROPYLENE F
	SEMICONDUCTIVE C
	POLYPHENYLENE SU CAPACITOR



+ 0.82 k	+ 1.0 k	+ 1.5 k	+ 1.5 k	+ 1.8 k	+ 2.7 k
0.358 – 0.577	0.577 – 0.828	0.828 – 1.078	1.078 – 1.299	1.299 – 1.535	1.535 – 1.777
28 – 44	45 – 63	64 – 83	84 – 100	101 – 118	119 – 137
SCENE 2	SCENE 1	ZONE2 ON/OFF	ZONE3 ON/OFF	ZONE4 ON/OFF	MAIN ZONE ⏻

+ 0.82 k	+ 1.0 k	+ 1.5 k	+ 1.5 k	+ 1.8 k	+ 2.7 k	+ 3.3 k	+ 4.7 k	+ 6.8 k	+ 12.0 k	+ 22.0 k
0.358 – 0.577	0.577 – 0.828	0.828 – 1.078	1.078 – 1.299	1.299 – 1.535	1.535 – 1.777	1.777 – 2.010	2.010 – 2.241	2.241 – 2.476	2.476 – 2.709	2.709 – 2.940
28 – 44	45 – 63	64-83	84 – 100	101 – 118	119 – 137	138 – 155	156 – 173	174 – 191	192 – 209	210 – 227
OPTION	△	ON SCREEN	◁	ENTER	▷	PROGRAM <	PROGRAM >	DISPLAY	▽	RETURN

+ 0.82 k	+ 1.0 k	+ 1.5 k	+ 1.5 k	+ 1.8 k	+ 2.7 k	+ 3.3 k	+ 4.7 k
0.358 – 0.577	0.577 – 0.828	0.828 – 1.078	1.078 – 1.299	1.299 – 1.535	1.535 – 1.777	1.777 – 2.010	2.010 – 2.241
28 – 44	45 – 63	64 – 83	84 – 100	101 – 118	119 – 137	138 – 155	156 – 173
MEMORY	INFO	ZONE CONTROLS	FM	AM	TUNING/CH <<	TUNING/CH >>	PURE DIRECT



PARTS NAME	
ELECTROLYTIC CAPACITOR	H
ALUMINUM CAPACITOR	
CERAMIC CAPACITOR	H
CERAMIC TUBULAR CAPACITOR	
POLYESTER FILM CAPACITOR	
POLYSTYRENE FILM CAPACITOR	
WAX CAPACITOR	
POLYPROPYLENE FILM CAPACITOR	
SEMICONDUCTIVE CERAMIC CAPACITOR	
POLYPHENYLENE SULFIDE FILM CAPACITOR	

RESISTOR	
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
	CARBON FILM RESISTOR (P=10)
	METAL OXIDE FILM RESISTOR
	METAL FILM RESISTOR
	METAL PLATE RESISTOR
	FIRE PROOF CARBON FILM RESISTOR
	CEMENT MOLDED RESISTOR
	SEMI VARIABLE RESISTOR
	CHIP RESISTOR

VFD	MIC AMP
KEY INPUT	INPUT SELECTOR
V-AUX	VOLUME
FRONT HDMI	IR RECEIVER for Learning (IDLING ADJUSTMENT JIG)

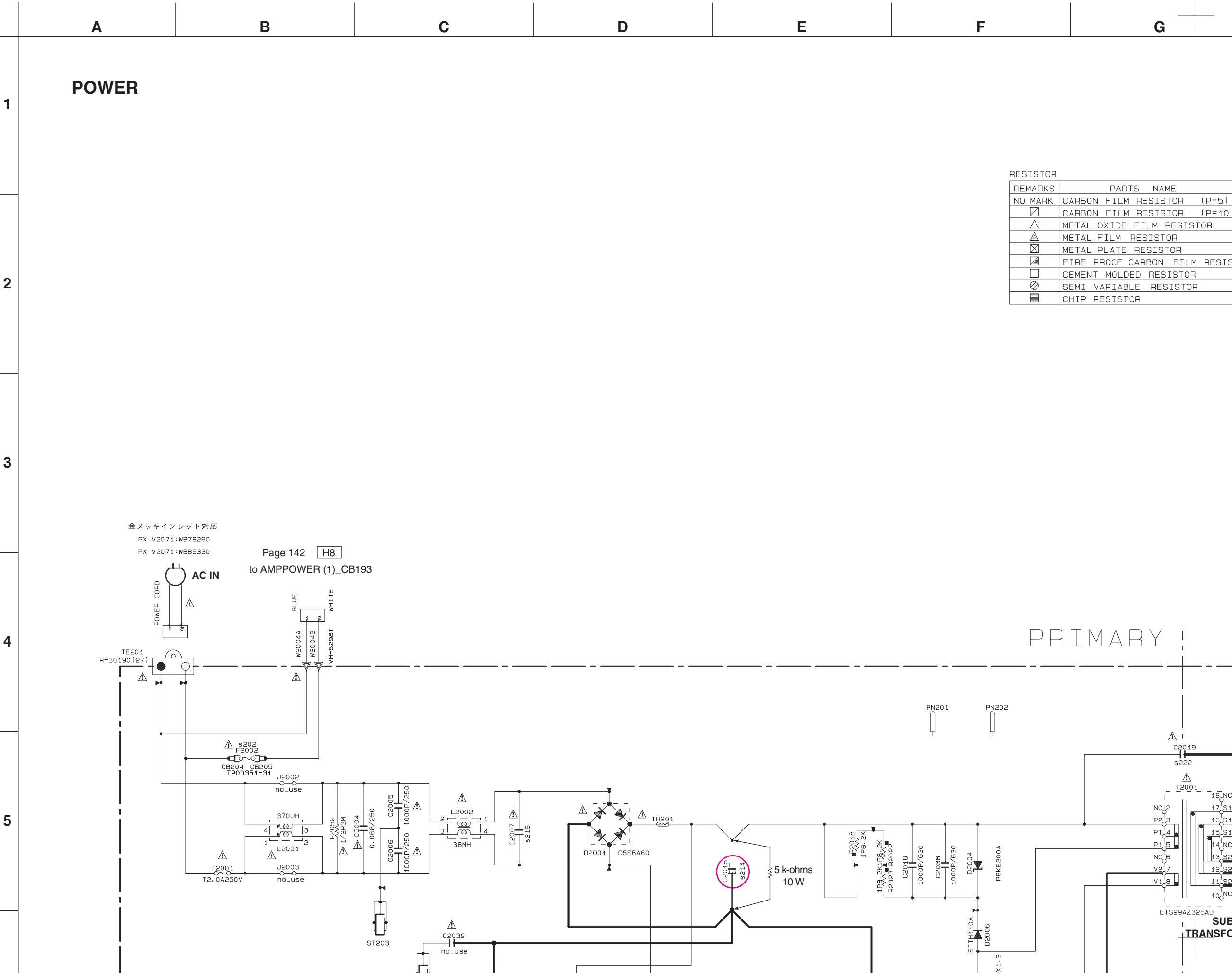
- ★ Components having special characteristics are marked $\triangle$ and must be replaced with parts having specifications equal to those originally installed.
- ★ Schematic diagram is subject to change without notice.

- △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あります。

A	B
C	D

A	B
C	D

POWER



NAME
RESISTOR (P=5)
RESISTOR (P=10)
RESISTOR
THERMISTOR
POTENTIOMETER
VARIABLE FILM RESISTOR
PHOTOSENSITIVE RESISTOR
RESISTOR
RESISTOR

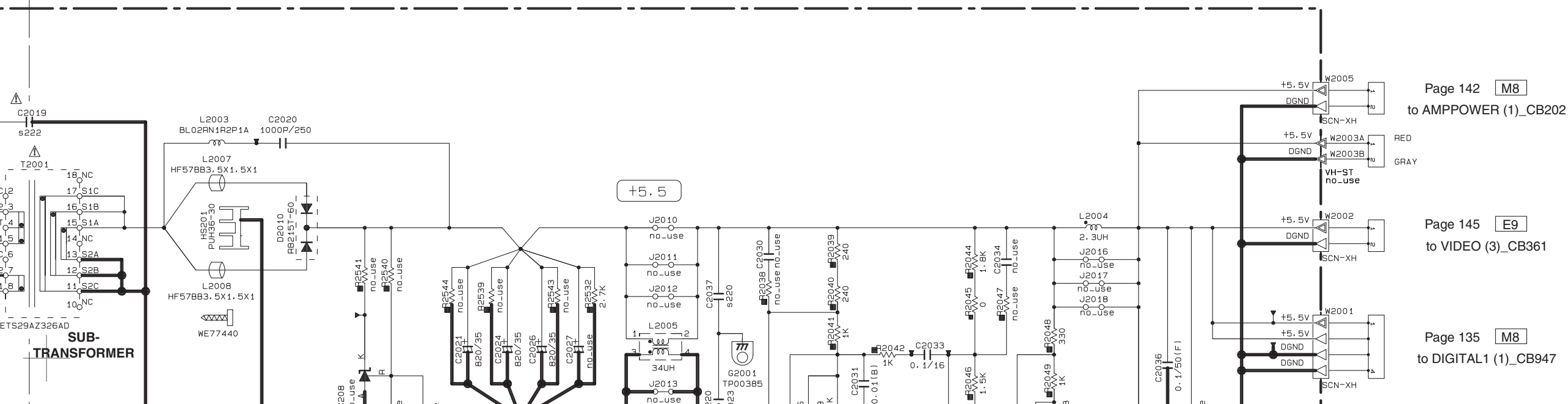
CAPACITOR		
REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	H
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	H
●	CERAMIC TUBULAR CAPACITOR	
◎	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
①	MICA CAPACITOR	
Ⓟ	POLYPROPYLENE FILM CAPACITOR	
⊙	SEMICONDUCTIVE CERAMIC CAPACITOR	
Ⓢ	POLYPHENYLENE SULFIDE FILM CAPACITOR	

(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
(F)..... RUSSIAN
(P)..... LATIN AMERICA
(S)..... BRAZIL
(H)..... THAI

Destination Part List

Destination Part List						
sXX	LOC	J	UC	R	TKABGLF	
s202	F2002	WU53640 T10AH250V	WQ21120 10A125V	WQ21120 10A125V	WB76060 T6. 3AL250V	
s213	R2006 R2005	RD15847 470K	RD15847 470K	RD15847 470K	RD15910 1M	
s214	C2016	WU89870 390/200	WU89870 390/200	WU46420 390/400	WU89880 100/400	
s215	R2025	WU98540 3P0. 27	WU98540 3P0. 27	WU98540 3P0. 27	WQ52610 3P0. 33	
s218	C2007	V615040 0.068/250	WR97740 0.022/250	WR97740 0.022/250	WR97740 0.068/250	
s220	C2037 C2023	X	US06322 2200P(B)	US06322 2200P(B)	US06322 2200P(B)	
s221	R2533 R2534	V807260 1P33K	V807260 1P33K	V807260 1P33K	V807300 1P100K	
s222	C2019	WH03590 1000P/250	WH03590 1000P/250	WH03610 2200P/250	WH03610 2200P/250	
s226	R2545	RD35722 22K	RD35722 22K	RD35718 18K	RD35712 12K	

SECONDARY



A	B
C	D

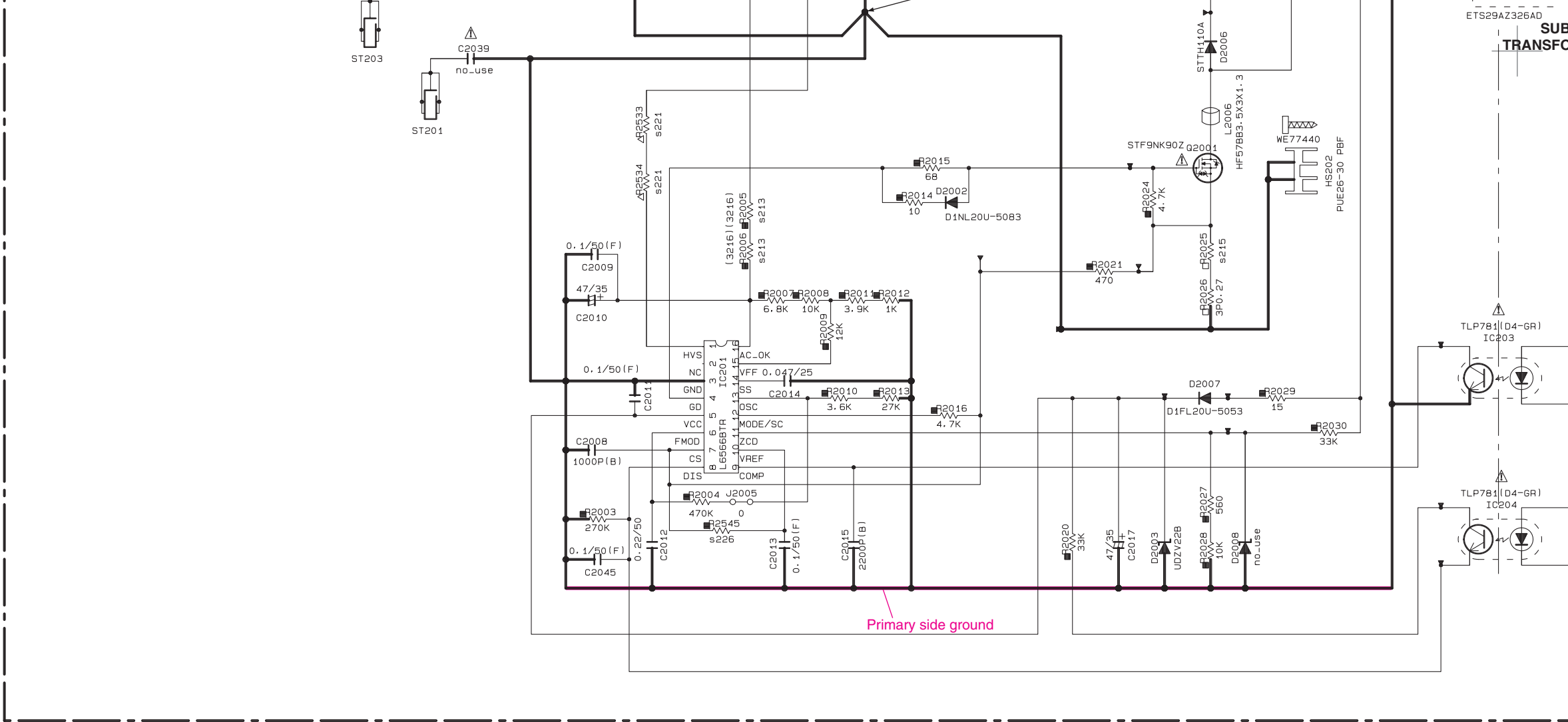
6

7

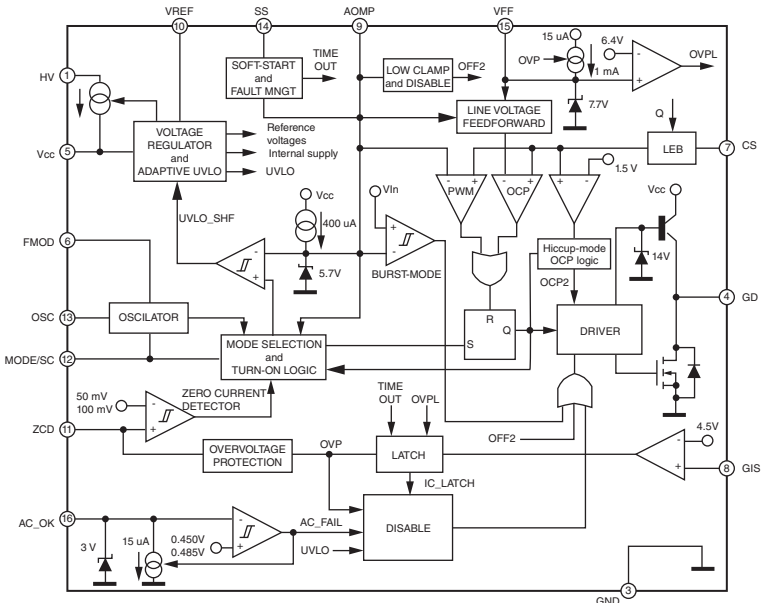
8

9

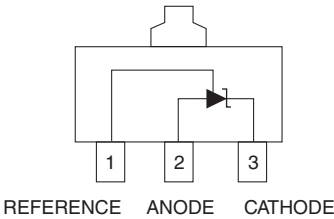
10



IC201: L6566BTR
Multi mode controller for SMPS



IC205: NJM431U
Adjustable precision shunt regulator



Notes)

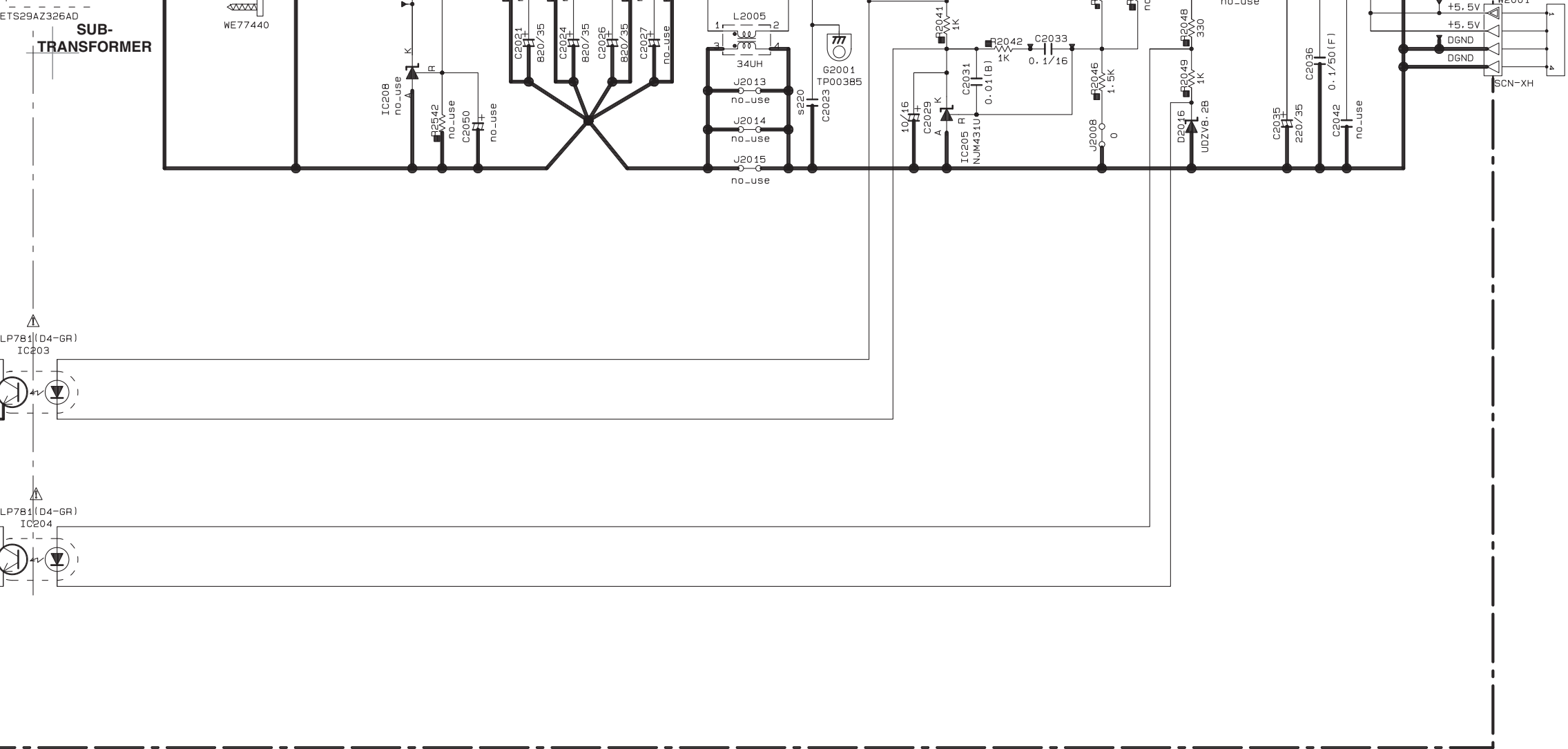
Safety measures

- Some internal parts in this product contain high voltages and are dangerous. Be sure to take safety measures.
 - Note that the capacitors indicated below are dangerous even after the power is turned off because they store charge. Before starting any repair work, connect a discharging resistor (5 k-ohms/10 W) to the terminals of the capacitors. The time required for discharging is about 30 seconds per each.
- C2016 on POWER P.C.B.

注意)

安全対策

- この製品の内部には高電圧部分があり危険です。修理の際は、絶縁性の手袋を使用するなどの安全対策を必ず行ってください。
 - 下記のコンデンサには電源を OFF にした後も電荷が残り、高電圧が維持されており危険です。修理作業前、下記各コンデンサの端子間に接続して放電してください。放電所用時間は各々約 30 秒間です。
- POWER P.C.B. の C2016



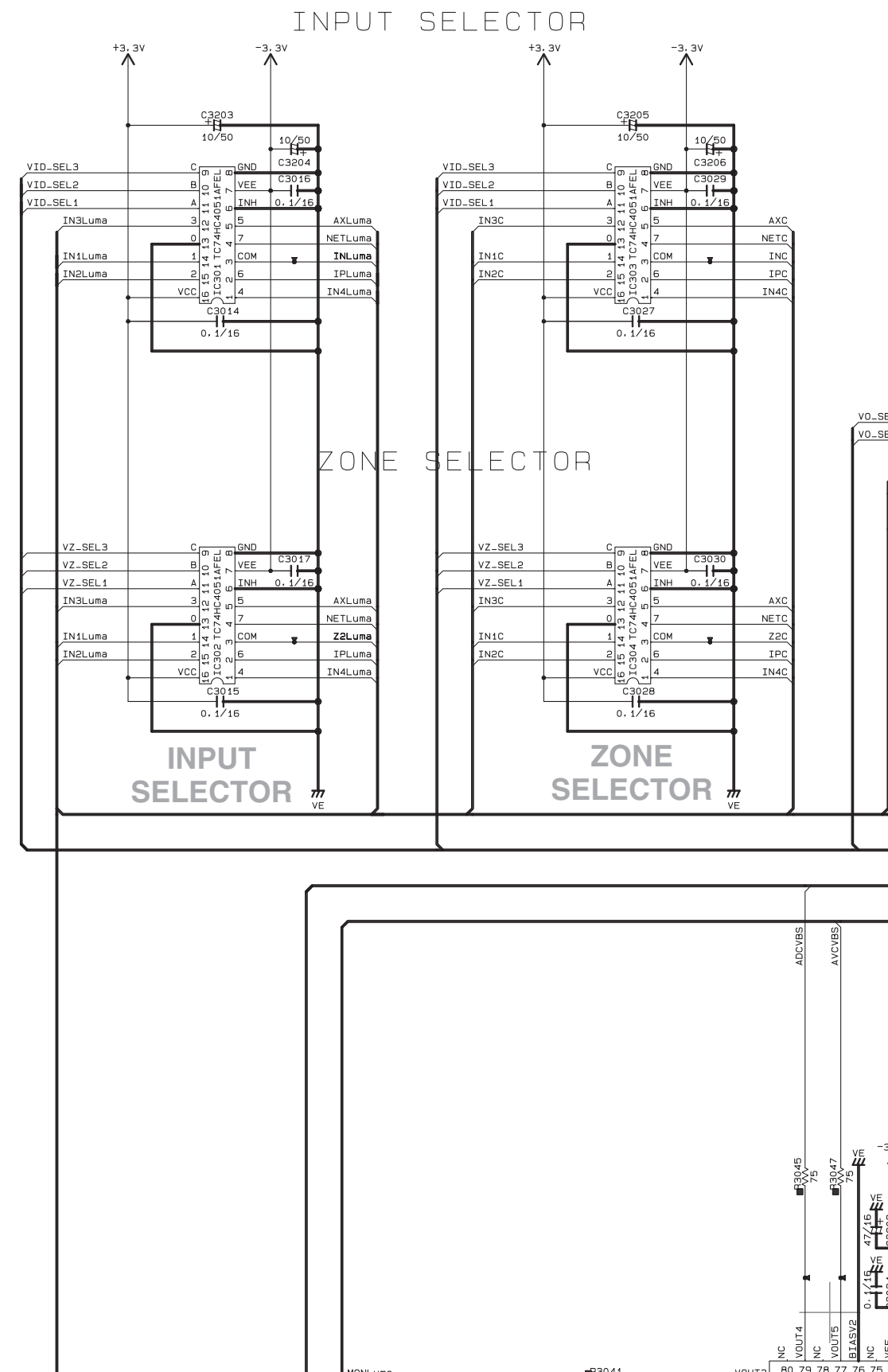
sure to take safety measures during servicing, such as wearing insulating gloves.
turned off because an electric charge remains and a high voltage continues to exist there.
to the terminals of each capacitor indicated below to discharge electricity.

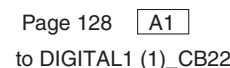
するなどの安全対策を行ってください。
危険です。修理作業前に放電用抵抗(5 kΩ/10 W)を
30 秒間です。

- ★ 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.

- △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あります。

A	B
C	D



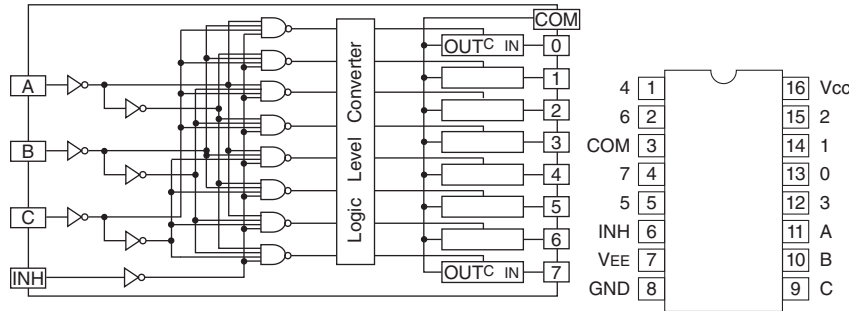


A	B
C	D

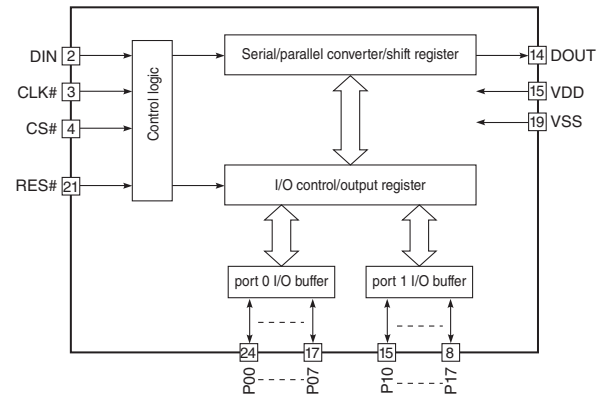
- ★ Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
- ★ Schematic diagram is subject to change without notice.

- Δ 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あります。

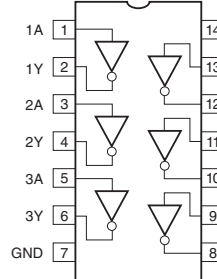
IC301–304: TC74HC4051AFEL
8-channel analog multiplexer/demultiplexer

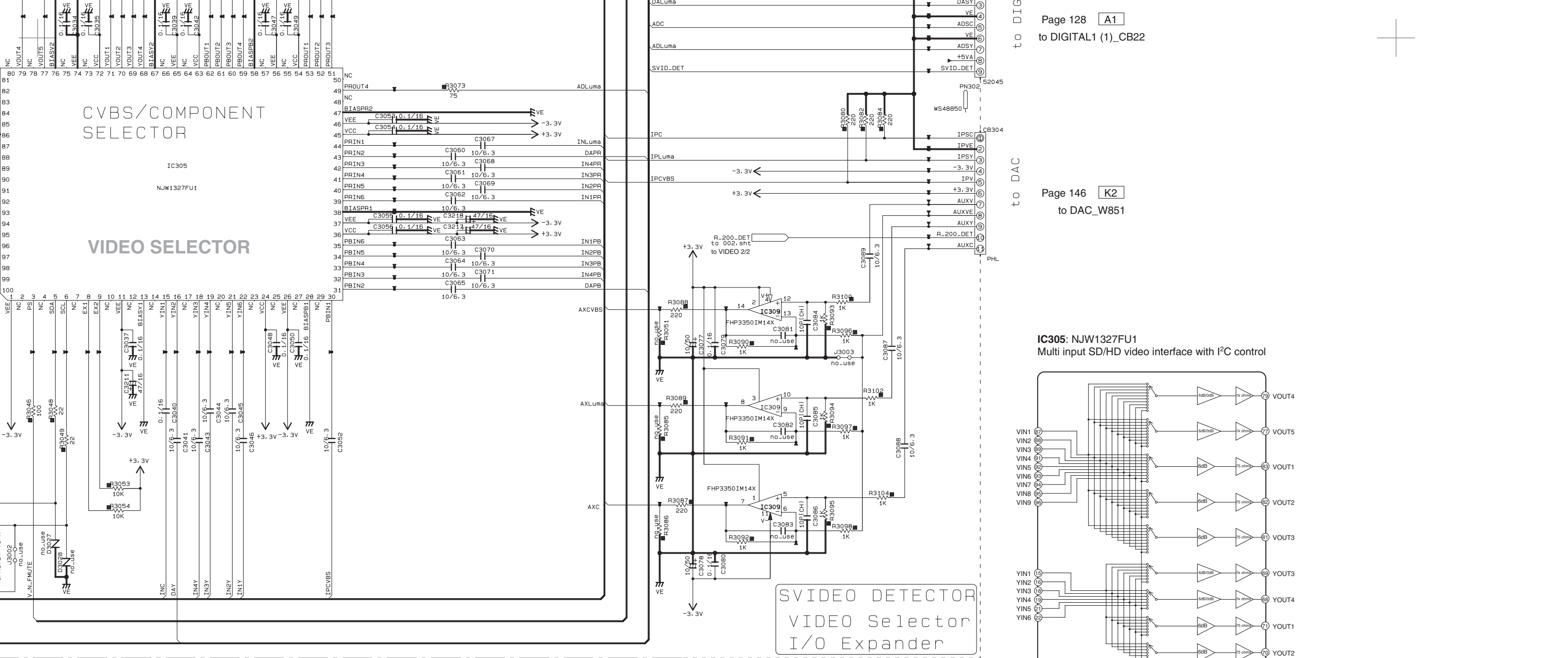


IC306: LC709004A-TLM-E
I/O-expander for microcontroller

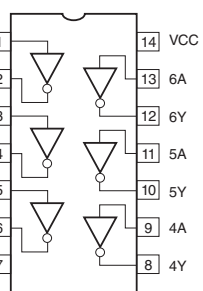


IC307: TC74VHCU
Hex inverters

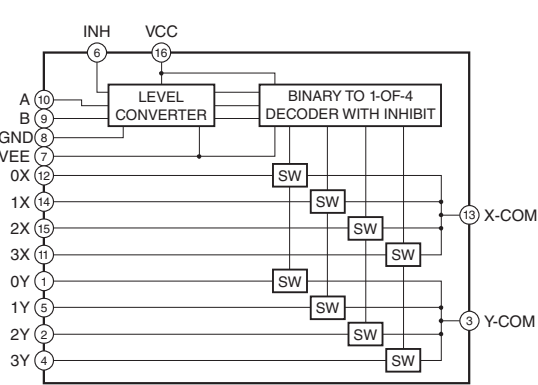




IC307: TC74VHC04FT
x inverters

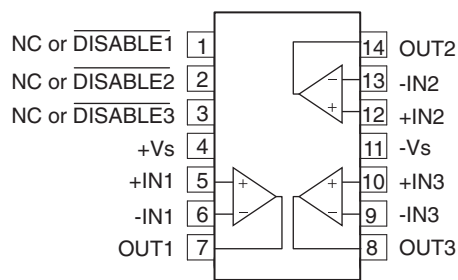


IC308: TC74HC4052AF
Analog multiplexer/demultiplexer

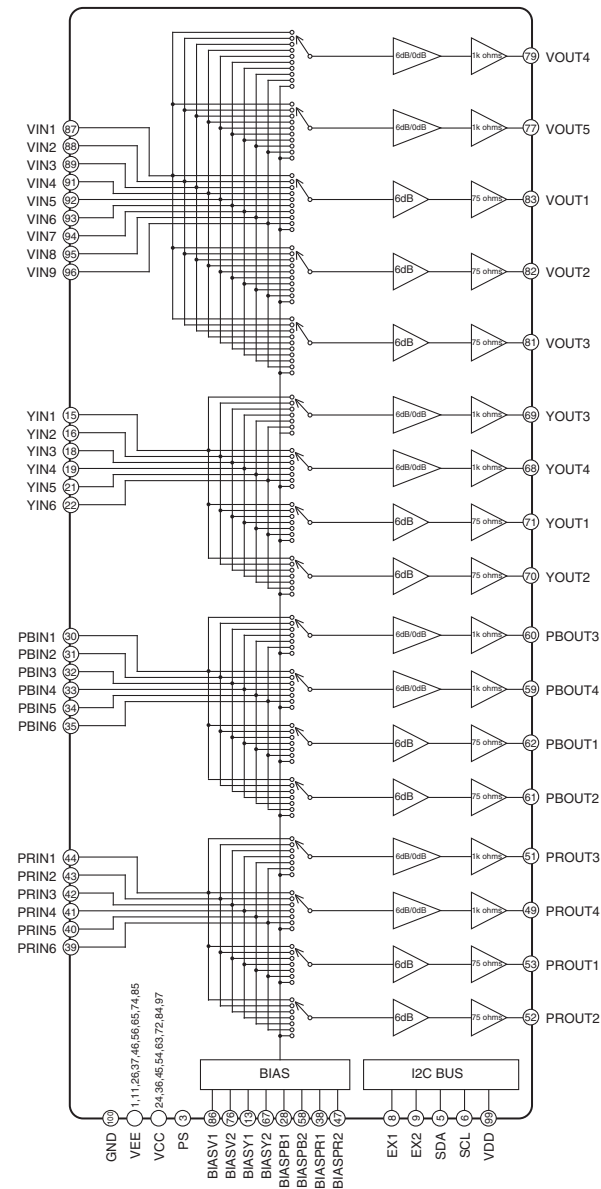


INHIBIT	B	A	
0	0	0	0x, 0y
0	0	1	1x, 1y
0	1	0	2x, 2y
0	1	1	3x, 3y
1	X	X	NONE

IC309: FHP3350IM14X
Triple voltage feedback amplifier

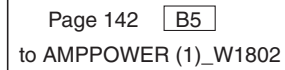


IC305: NJW1327FU1
Multi input SD/HD video interface with I²C control



G

to TUNER PACK



B5

2 to POWER

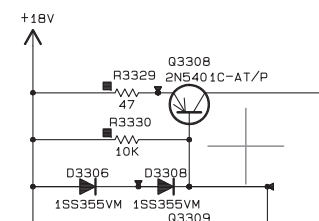
to 001.sht

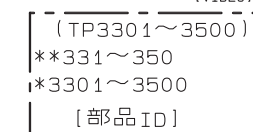
IRB_N_RST
IRB_MISO
IRB_MOSI

P0	INT1	INT2	INT3
0.4	33	32	31
0.5	34	35	36

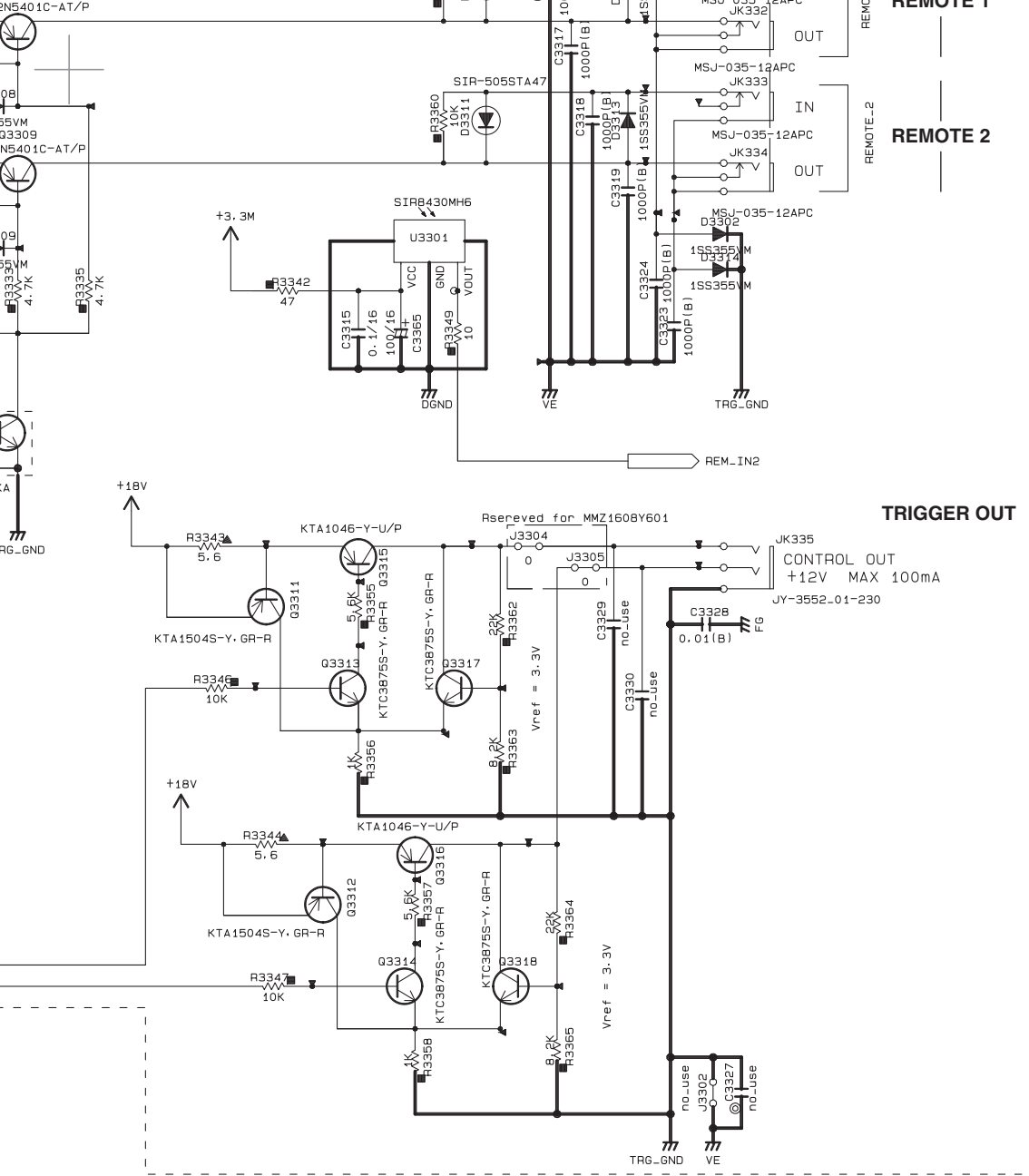
No Use

[部品ID]
(TP3951 ~ 3999)
**396 ~ 399
*3951 ~ 3999





Destination Part List					
sXX	LOC	J	U	CRTKAL	BGF
s101	IC331	X	X6248A0	X	X



REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	⌘
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	⌘
●	CERAMIC TUBULAR CAPACITOR	
⊙	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
①	MICA CAPACITOR	
⊕	POLYPROPYLENE FILM CAPACITOR	
⊗	SEMICONDUCTIVE CERAMIC CAPACITOR	
Ⓢ	POLYPHENYLENE SULFIDE FILM CAPACITOR	

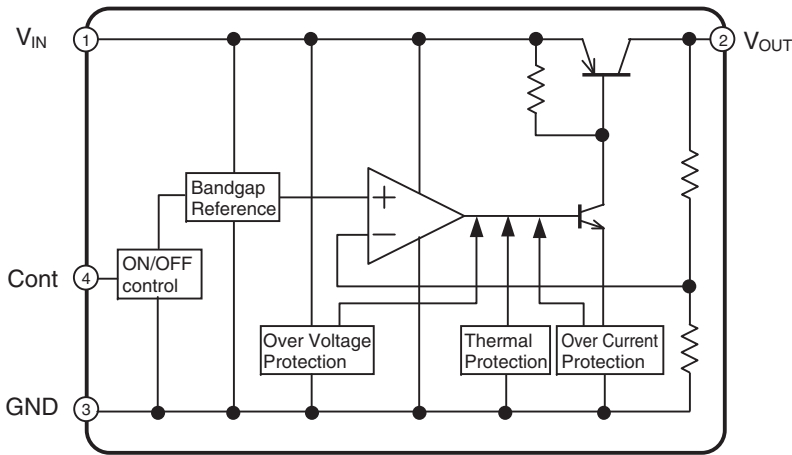
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
▢	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
▨	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊗	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

NOTICE (model)
 (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
 (P)..... RUSSIAN
 (S)..... BRAZIL
 (H)..... THAI

Destination Part List					
sXX	L0C	J	U	CRTKAL	B6F
s101	IC331	X	X6248A0 NJM2388F33	X	X
s102	HS331	X	WD96080 BPUE16-25/H17	X	X
s103	C3351	X	UR06710 10/50	X	X
s104	C3352	X	UR03810 100/16	X	X
s105	C3355	X	UR03810 100/16	X	X
s106	D3303	X	WW78390 1SS355VM	X	X
s107	R3305	X	RD35610 1K	X	X
s108	R3306	X	RD35410 10	X	X
s109	R3309	X	RD35000 0	X	X
s110	R3312	X	RD35682 8.2K	X	X
s111	CB334	X	VQ04460 52044	X	X
s121	CB332	VQ04440 52044	X	VQ04440 52044	VQ04440 52044

VIDEO Power Supply
 HD RADIO Power Supply
 RDS
 Trigger OUT
 Remote I/O
 IR Blaster

IC331, 332: NJM2388F33
 Low dropout voltage regulator with ON/OFF control



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- ★ Schematic diagram is subject to change without notice.

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- 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あります。

A	B
C	D