

Service Manual

ORDER NO.
RRV1943

DVD PLAYER

DV-606D

- Refer to the service manual RRV1889 for DV-505/KU.

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	DV-606D		
KU	○	AC120V	
KC	○	AC120V	

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1. CONTRAST OF MISCELLANEOUS PARTS

NOTES: ●Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

●The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

●When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 → 56 x 10¹ → 561 RD1/4PU 561J
 47k → 47 x 10³ → 473 RD1/4PU 473J
 0.5 → R50 RN2H R50K
 1 → 1R0 RS1P 1R0K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k → 562 x 10¹ → 5621 RN1/4PC 5621F

●Reference Nos. indicate the pages and Nos. in the service manual for the base model.

■ CONTRAST TABLE

DV-606D/KU,KC and DV-505/KU are constructed the same except for the following :

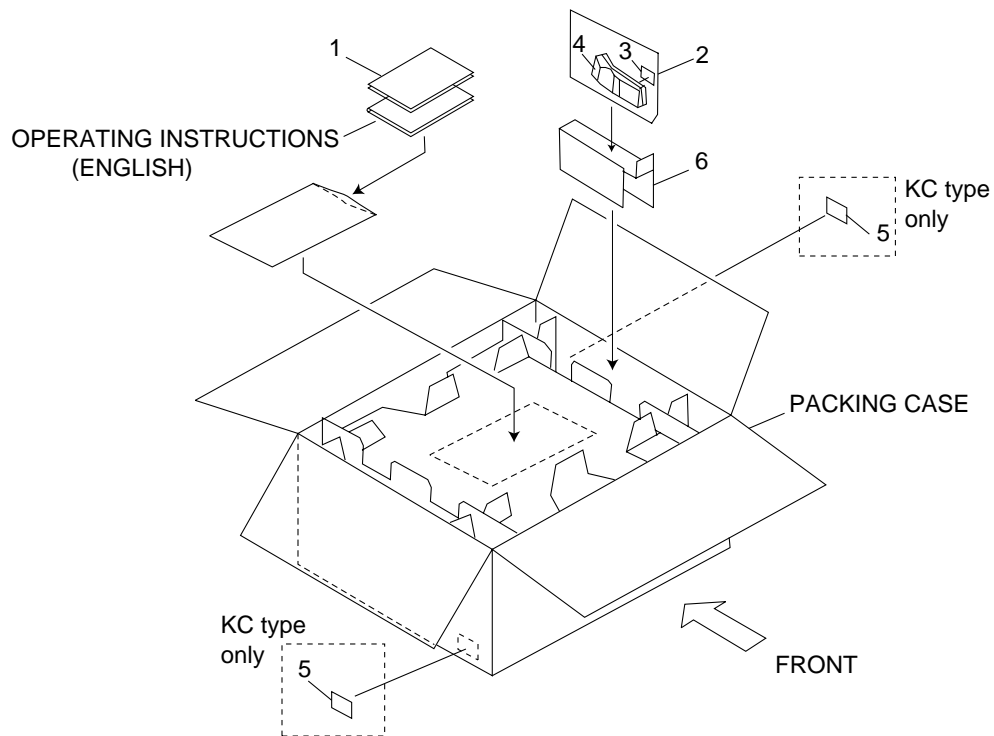
Ref. No.	Mark	Symbol and Description	Part No.			Remarks
			DV-505/KU	DV-606D/KU	DV-606D/KC	
ASSEMBLIES						
P5- 1	NSP	FLKY Assy	VWM1789	VWM1794	VWM1794	
P5- 2		FLKB Assy	VWG1873	VWG1878	VWG1878	
P6- 2		PWSB Assy	VWG1879	VWG1939	VWG1939	
P6- 3		DVDM Assy	VWS1326	VWS1327	VWS1327	
		AVJB Assy	VWV1572	VWV1606	VWV1606	
PACKING						
P3- 2	NSP	Operating Instructions (French)	Not used	Not used	VRC1067	No.1
P3- 3		Warranty Card	ARY1044	ARY1044	ARY7020	
P3- 6		Dry Cell Battery (R6P,AA)	VEM-013	Not used	Not used	
P3- 6		Dry Cell Battery (R03,AAA)	Not used	VEM-022	VEM-022	
P3- 7		Operating Instructions (English)	VRB1183	VRB1195	VRB1195	
P3- 9		Remote Control Unit (CU-DV008)	VXX2540	Not used	Not used	
P3-12		Battery Cover	VNK3703	Not used	Not used	
	Remote Control Unit (CU-DV019)	Not used	VXX2572	VXX2572	No.2	
	Battery Cover	Not used	VNK3864	VNK3864	No.3	
	Upper Cover	Not used	VNK3865	VNK3865	No.4	
P3-15	Packing Case	VHG1716	VHG1753	VHG1753		
P3-17	KC Label	Not used	Not used	VRW1716	No.5	
	Remote Control Holder	Not used	VHC1044	VHC1044	No.6	
EXTERIOR SECTION						
P4-18		65 Label	ORW1069	ORW1069	Not used	
FRONT PANEL SECTION						
P5- 4		Front Panel	VNK4091	VNK4290	VNK4290	
P5- 5		Fl Lens	VNK4149	VEC1985	VEC1985	
		Display Button	Not used	VNK3649	VNK3649	No.7
		Button	Not used	VNK4287	VNK4287	No.8
		DTS Label	Not used	VRW1732	VRW1732	No.9
		Earth Plate	Not used	VNE2085	VNE2085	No.10
BOTTOM VIEW SECTION						
P6-19		Flexible Cable (14P)	VDA1646	VDA1684	VDA1684	No.11
P6-21		Rear Panel	VNA1903	VNA1971	VNA1971	
P6-22		Housing Assy (4p)	VKP2157	VKP2190	VKP2190	
		Flexible Cable (7p)	Not used	VDA1685	VDA1685	No.12
		(AVJB CN102 – DVDM CN804)				

Note: ● The numbers in the remarks column correspond to the numbers on "■ EXPLODE VIEWS". Refer to "■ EXPLODED VIEWS"

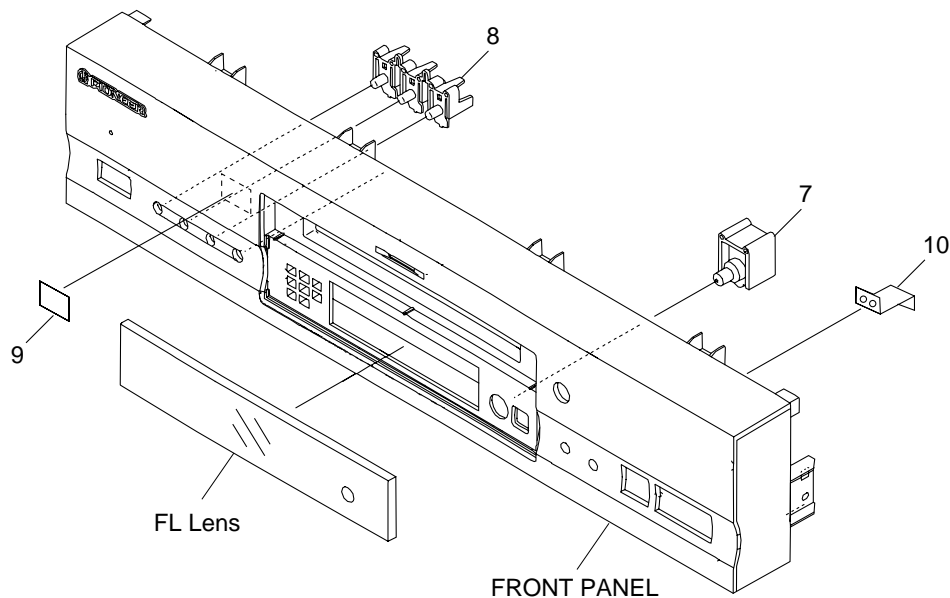
● For ASSEMBLIES, refer to "■ CONTRAST OF PCB ASSEMBLIES", "2. SCHEMATIC DIAGRAM" and "3. PCB CONNECTION DIAGRAM".

■ EXPLODED VIEWS

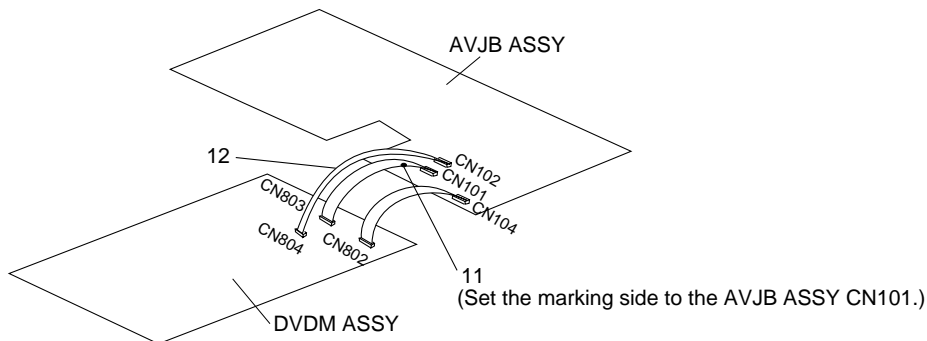
● PACKING SECTION



● FRONT PANEL SECTION



● BOTTOM VIEW SECTION



DV-606D

■ CONTRAST OF PCB ASSEMBLIES

F FLKB ASSY

VWG1878 and VWG1873 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		VWG1873	VWG1878	
	Q101,Q104,Q106-Q108 D101-D108 R101-R108 R124 R126,R606 R127 R137 S101	Not used Not used Not used RS1/10S0R0J Not used RS1/10S0R0J Not used Not used	PDTC124EK SLP4118C51H RS1/10S331J Not used RS1/10S0R0J RS1/10S273J RS1/10S683J RSG1030	

F PWSB ASSY

VWG1939 and VWG1879 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		VWG1879	VWG1939	
	R202 R213 R214 R215 S203-S205	RS1/10S181J Not used Not used Not used Not used	RS1/10S331J RS1/10S432J RS1/10S622J RS1/10S103J RSG1030	

F DVDM ASSY

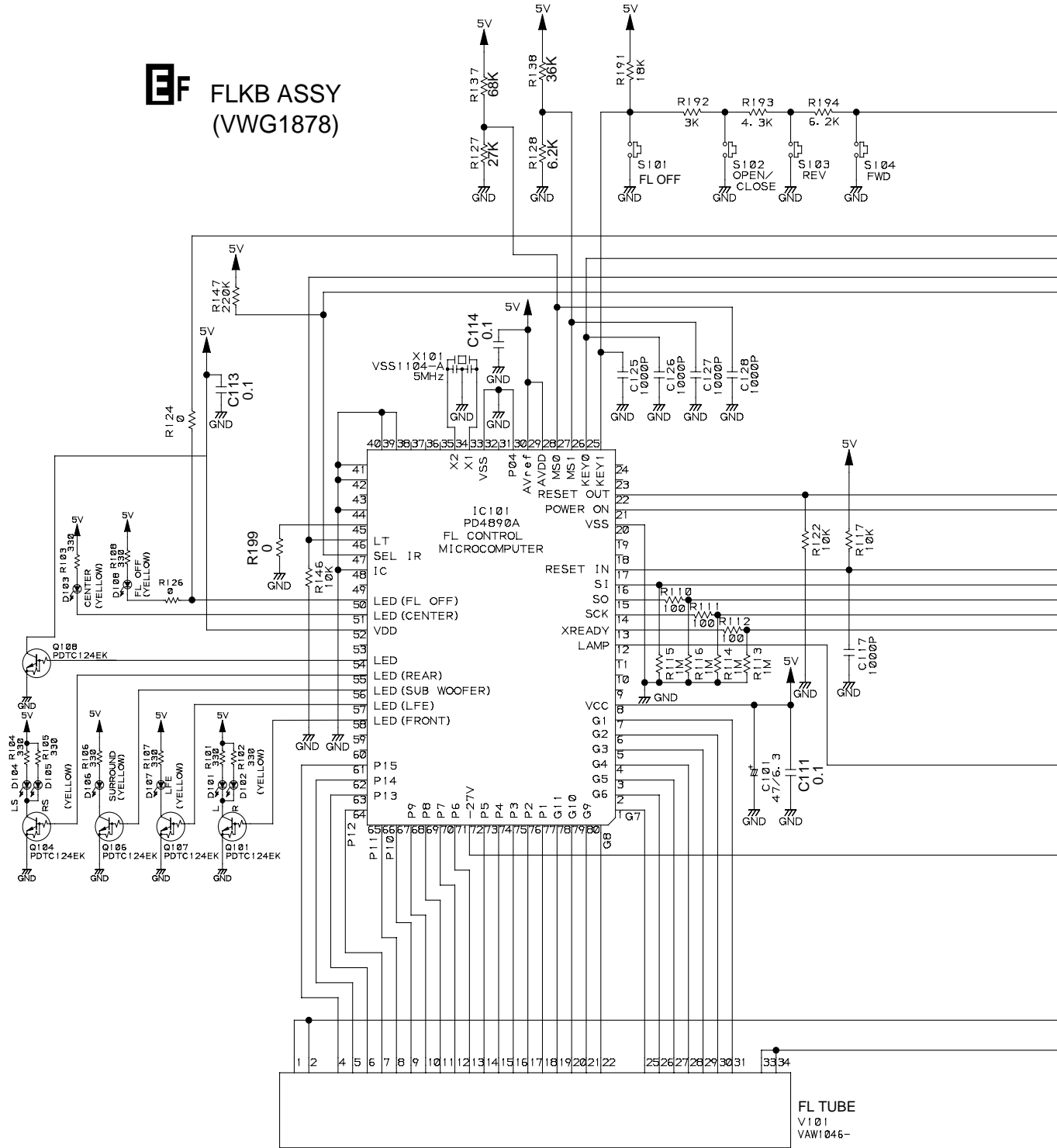
VWS1327 and VWS1326 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		VWS1326	VWS1327	
	IC602 IC6003 IC801 F9141,F9921 L9143,L9930,L9931 C606,C607 R1 R2 R141,R920,,R921,R935 R143 R641 R642 R830 R864-R866,R925 R923,R924,R926,R932 R930,R931,R962 R937 R938 R940 CN804	Not used VYW1559 MB86371A Not used Not used Not used Not used RS1/16S103J RS1/10S0R0J RS1/16S0R0J Not used Not used Not used Not used RS1/16S220J RS1/16S220J RS1/16S331J RS1/16S220J RS1/16S220J Not used	PDK026C VYW1546 MB86371 VTF1096 QTL1011 CKSRYF104Z16 RS1/16S223J RS1/16S333J Not used Not used RS1/16S0R0J RS1/16S103J RS1/16S201J RS1/16S101J RS1/16S101J Not used RS1/16S271J RS1/16S561J RS1/16S331J VKN1411	

2. SCHEMATIC DIAGRAM

2.1 FLKB, PWSB and DILB ASSEMBLIES

EF FLKB ASSY (VWG1878)

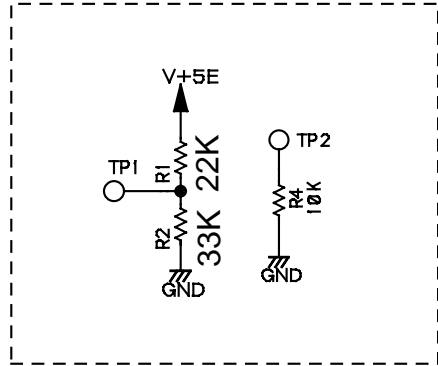


2.2 DVDM ASSY

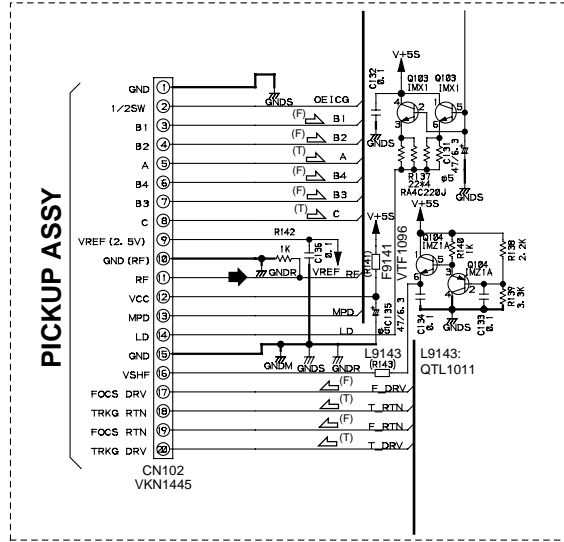
F DVDM ASSY (VWS1327)

F 1/3 SECTION

The differences of adjacencies to TP1

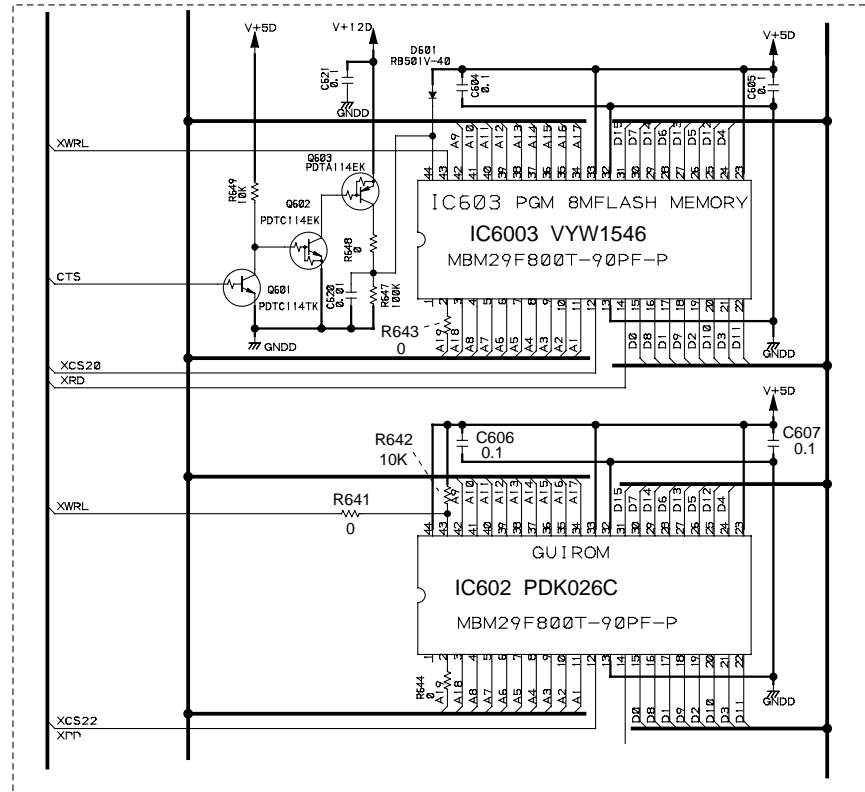
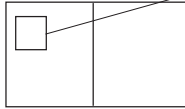


The differences of adjacencies to CN102



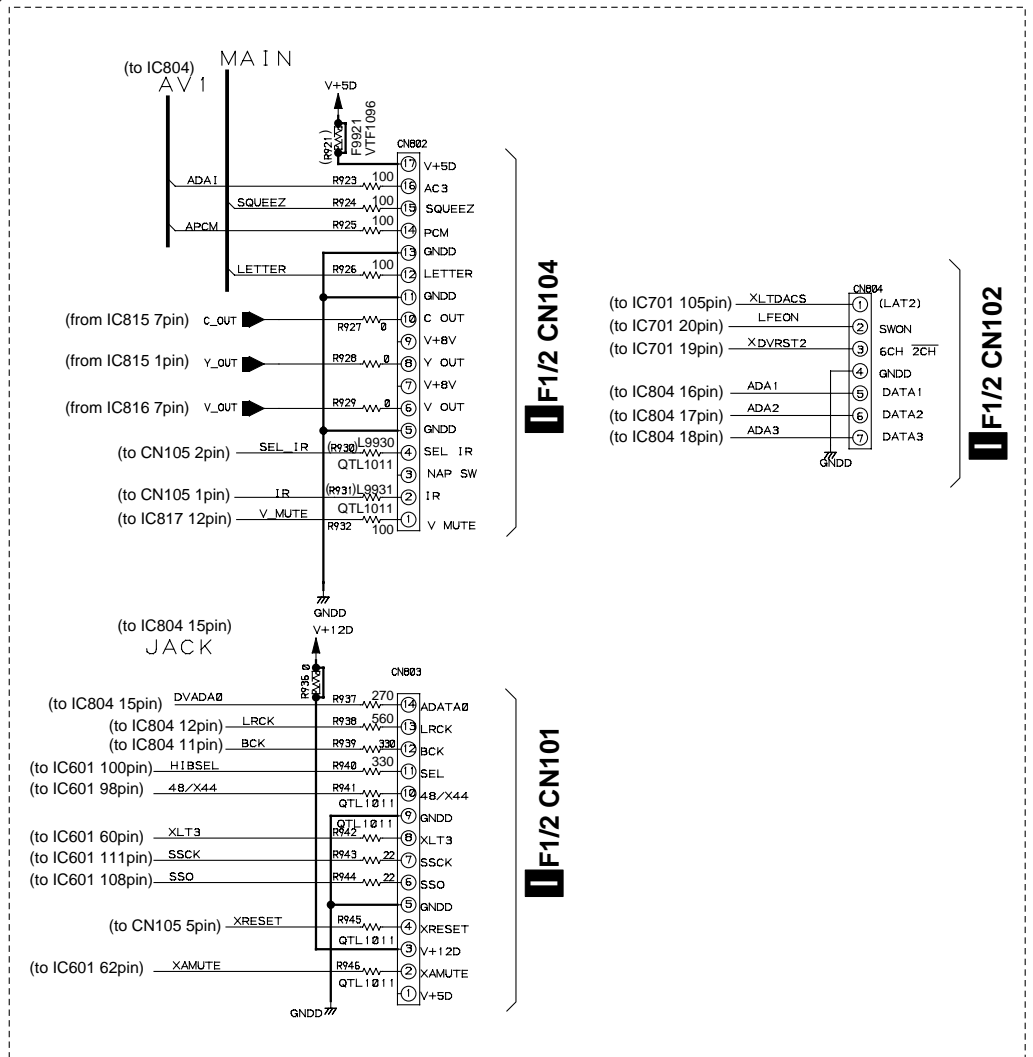
F 2/3 SECTION

The differences of adjacencies to IC6003

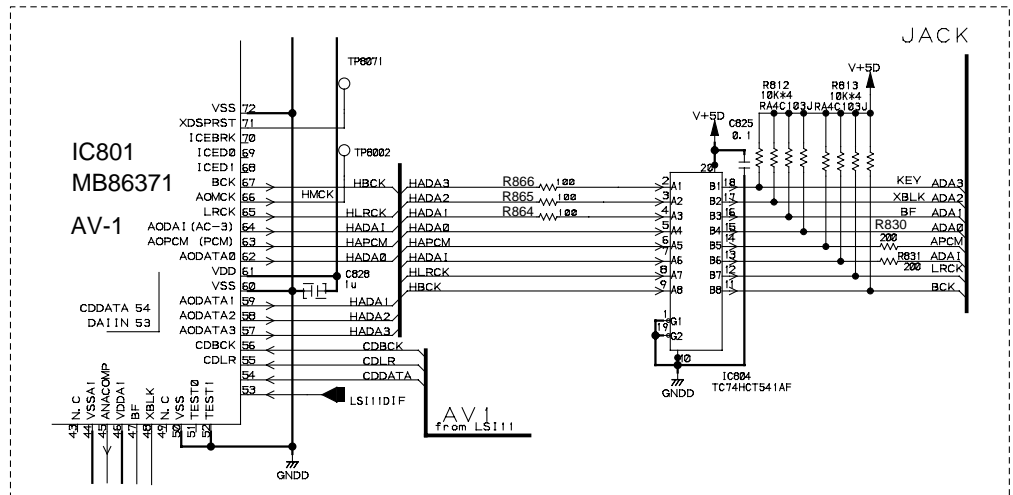
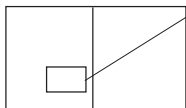


F 3/3 SECTION

•The differences of adjacencies to CN802



•The differences of adjacencies to IC801



2.3 AVJB ASSY(1/2)



AVJB ASSY (VWV1606)

A

B

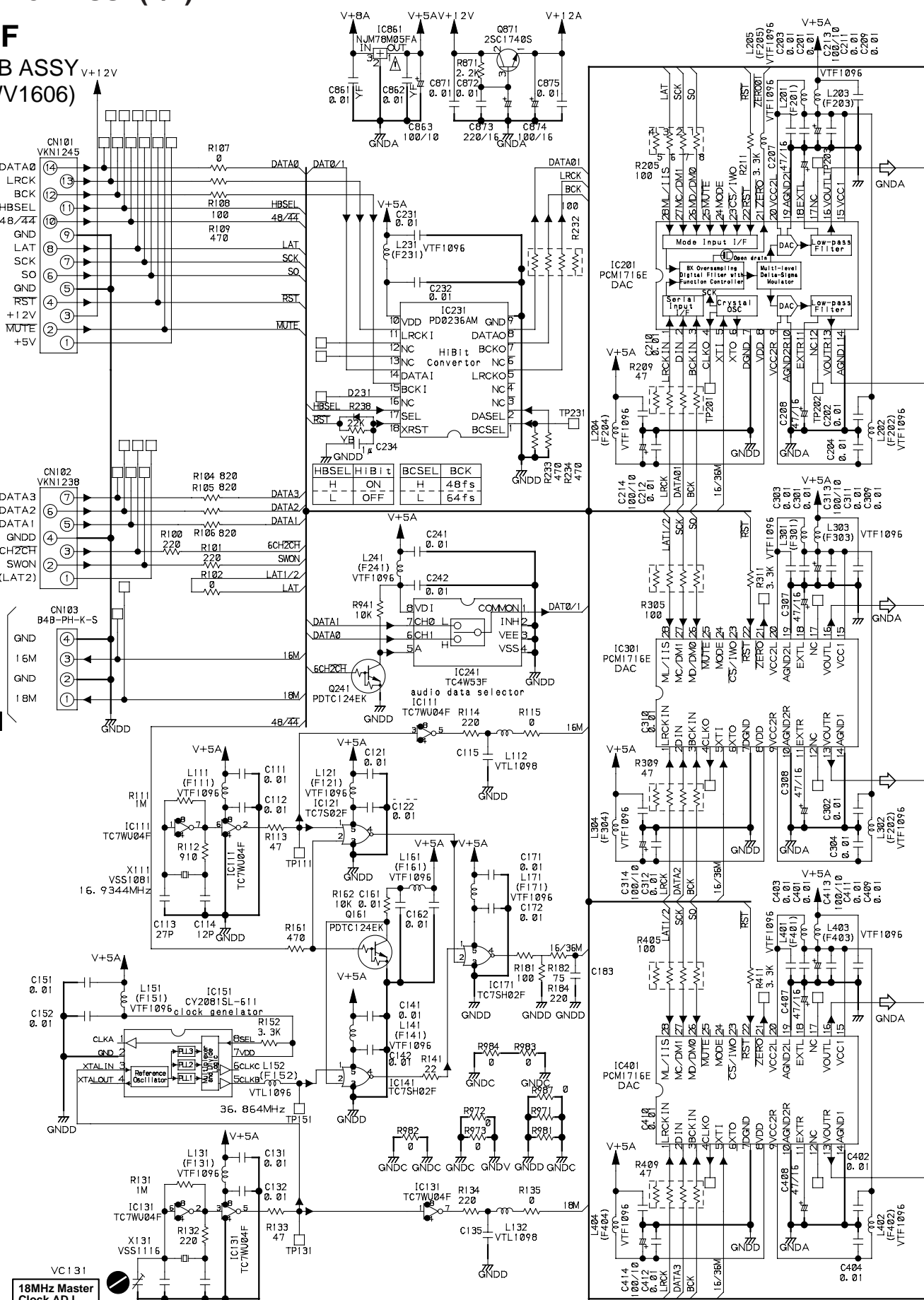
C

D

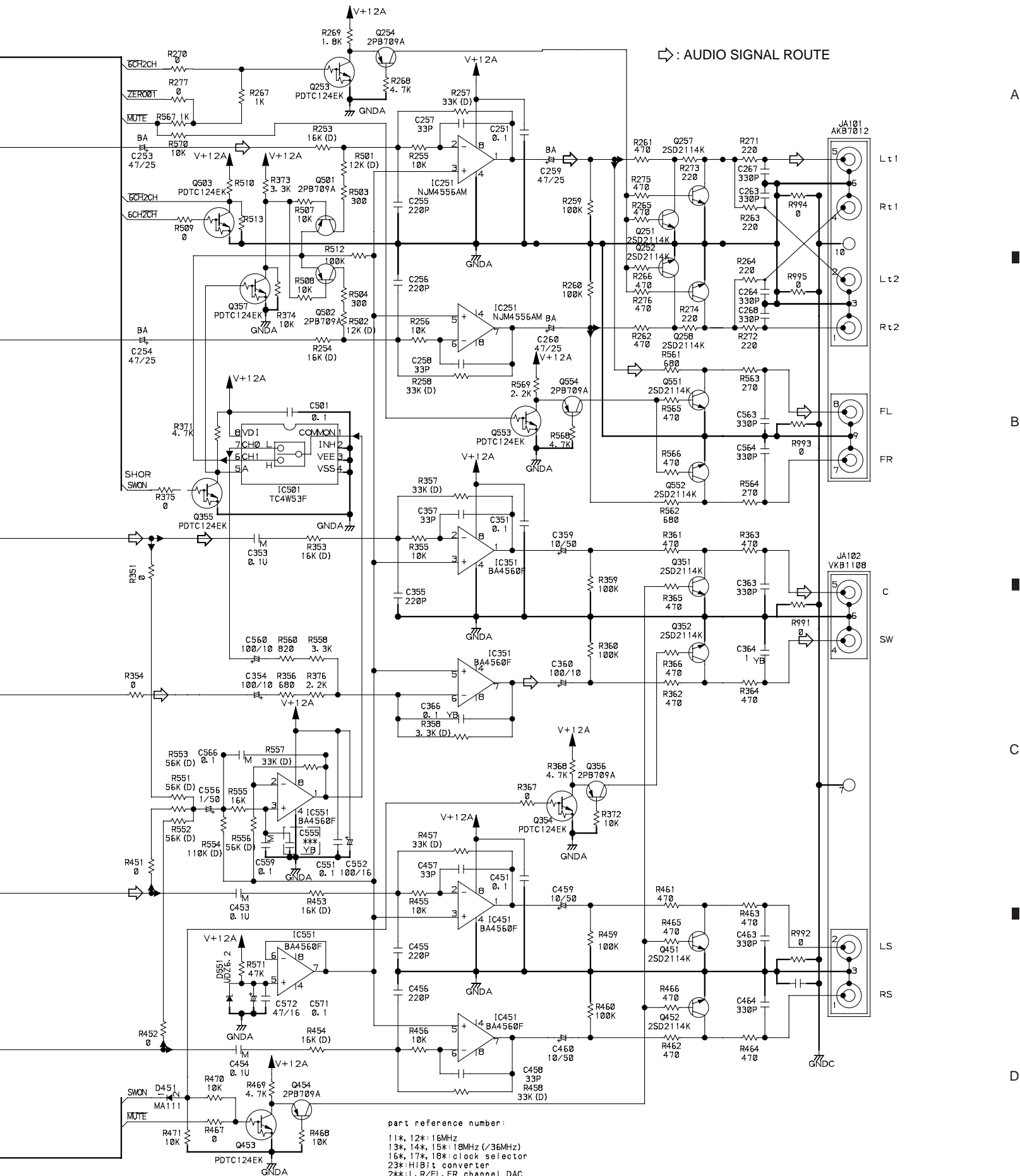
H3/3F CN803

H3/3F CN804

H3/3 CN801



All NPN transistors' (except on digital transistor) pin number are swapped.



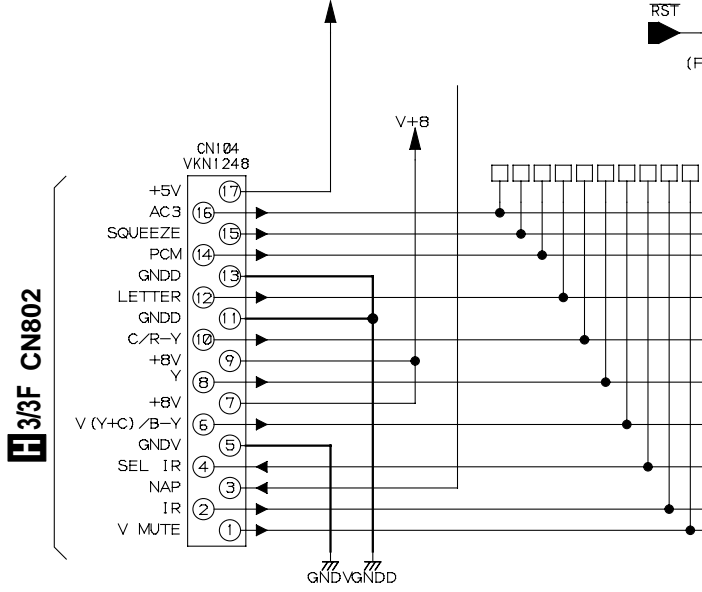
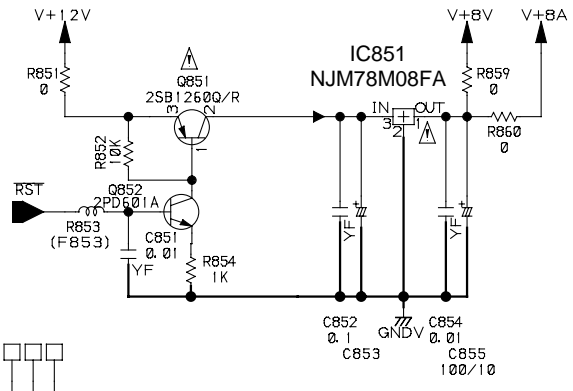
⇨ AUDIO SIGNAL ROUTE

part reference number:

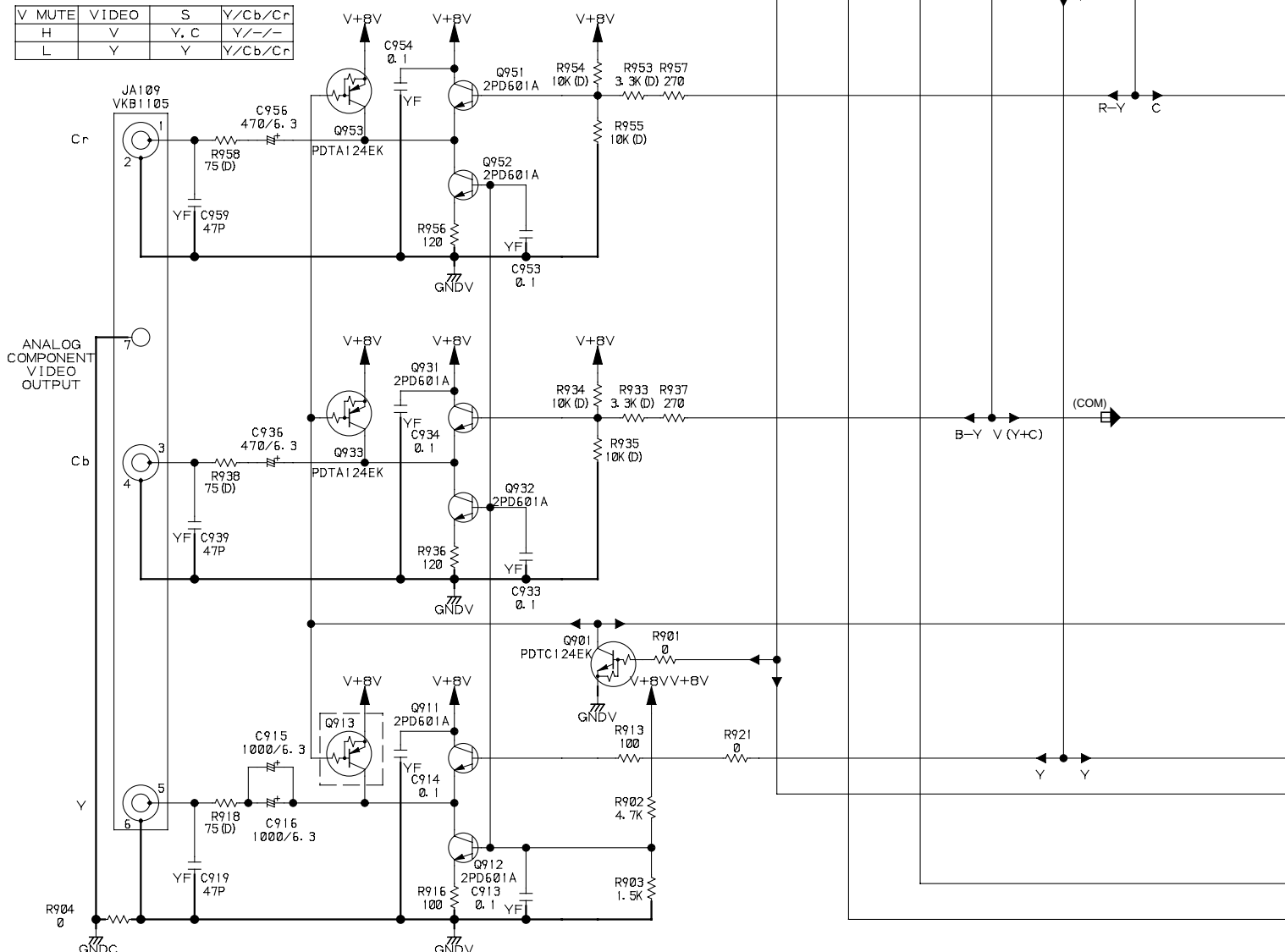
- 11*, 12*: 16MHz
- 13*, 14*, 15*: 18MHz (/36MHz)
- 16*, 17*, 18*: clock selector
- 23*: HiBit converter
- 2***: L, R/FL, FR channel DAC
- 3***: C, LFE channel DAC
- 3***: LS, RS channel DAC
- odd: left channel
- even: right channel

2.4 AVJB ASSY(2/2)

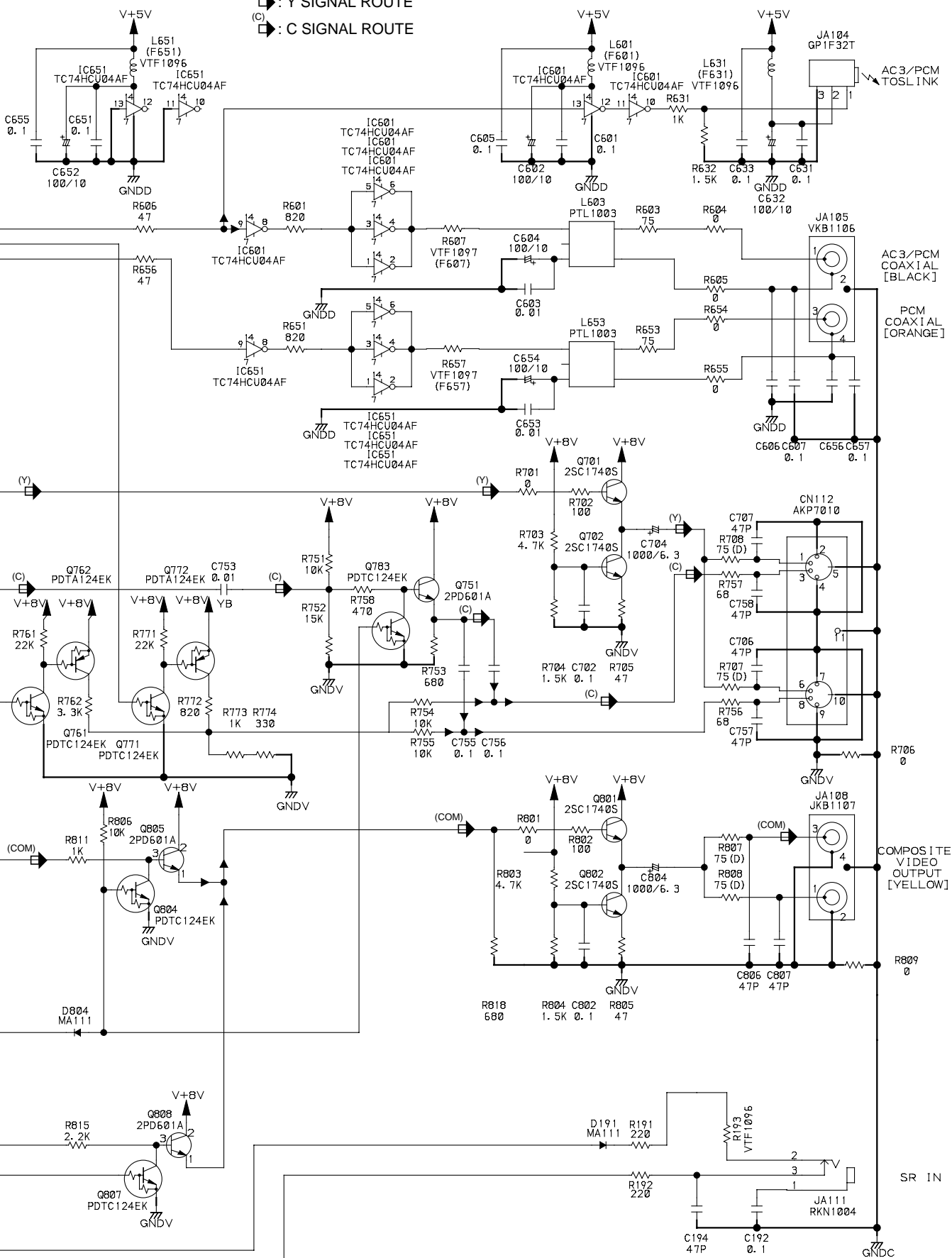
AVJB ASSY (VWV1606)



V MUTE	VIDEO	S	Y/Cb/Cr
H	V	Y, C	Y/-/-
L	Y	Y	Y/Cb/Cr



(COM) □: COMPOSITE VIDEO SIGNAL ROUTE
 (Y) □: Y SIGNAL ROUTE
 (C) □: C SIGNAL ROUTE



3. PCB CONNECTION DIAGRAM

AVJB ASSY

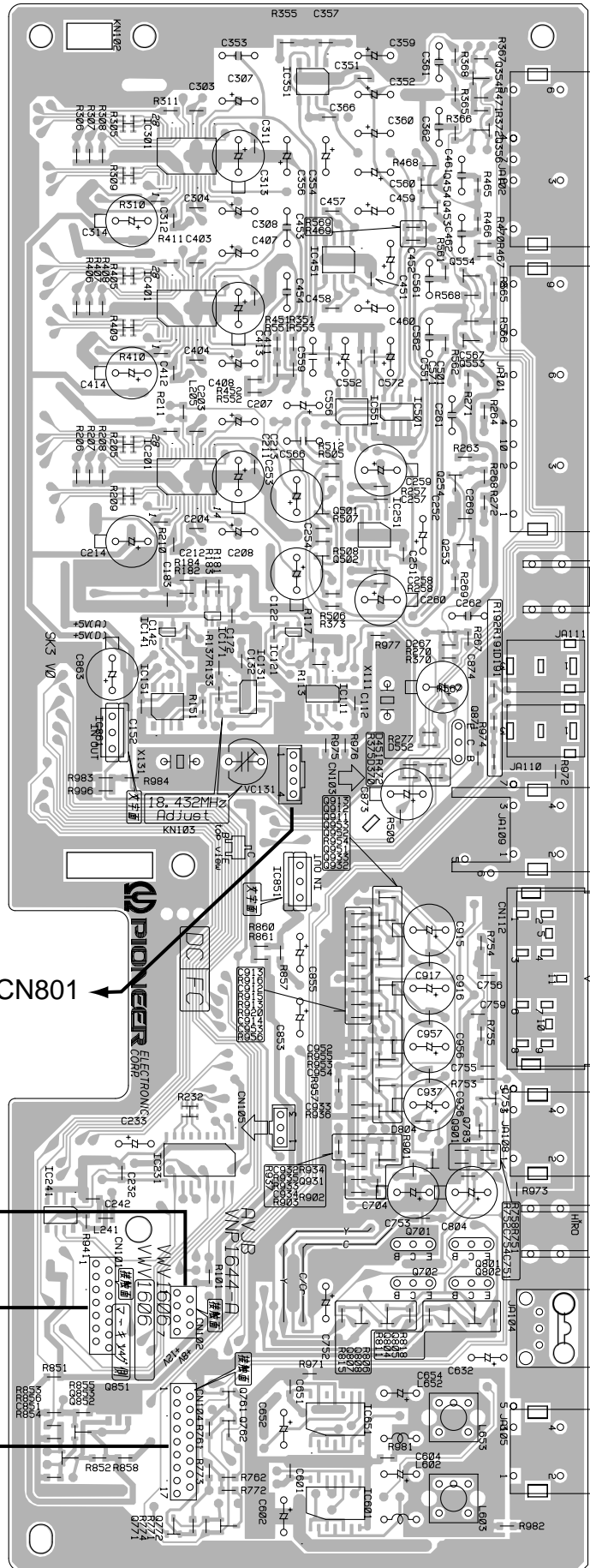
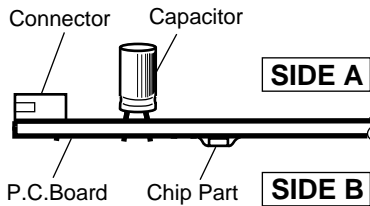
NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.

4. View point of PCB diagrams.



- IC354
- IC351
- IC356
- IC301
- Q454
- Q453
- IC451
- Q554
- IC401
- Q553
- IC501
- IC551
- Q254
- IC201
- Q501
- IC251
- Q253
- Q502
- IC171
- IC141
- IC121
- IC151
- IC131
- IC111
- Q871
- IC881
- VC131
- IC851
- Q911
- Q913
- Q951
- Q954
- Q933
- Q932
- Q753
- Q901
- IC231
- Q931
- IC231
- Q701
- Q801
- Q702
- Q802
- Q804
- Q805
- Q807
- Q808
- Q761
- IC651
- Q762
- Q853
- Q852
- IC601
- Q771
- Q772

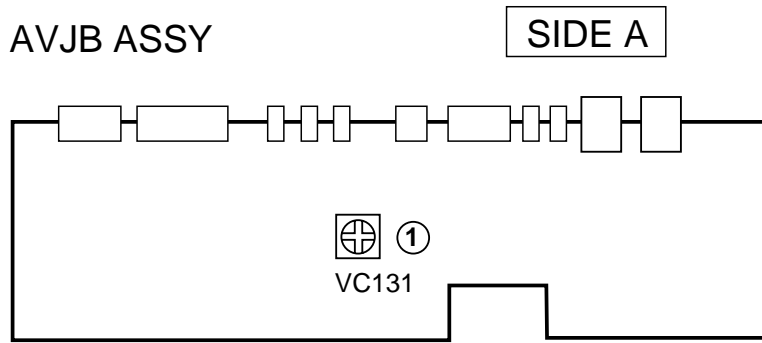
SIDE A

(VNP1644-A)

4. ADJUSTMENT

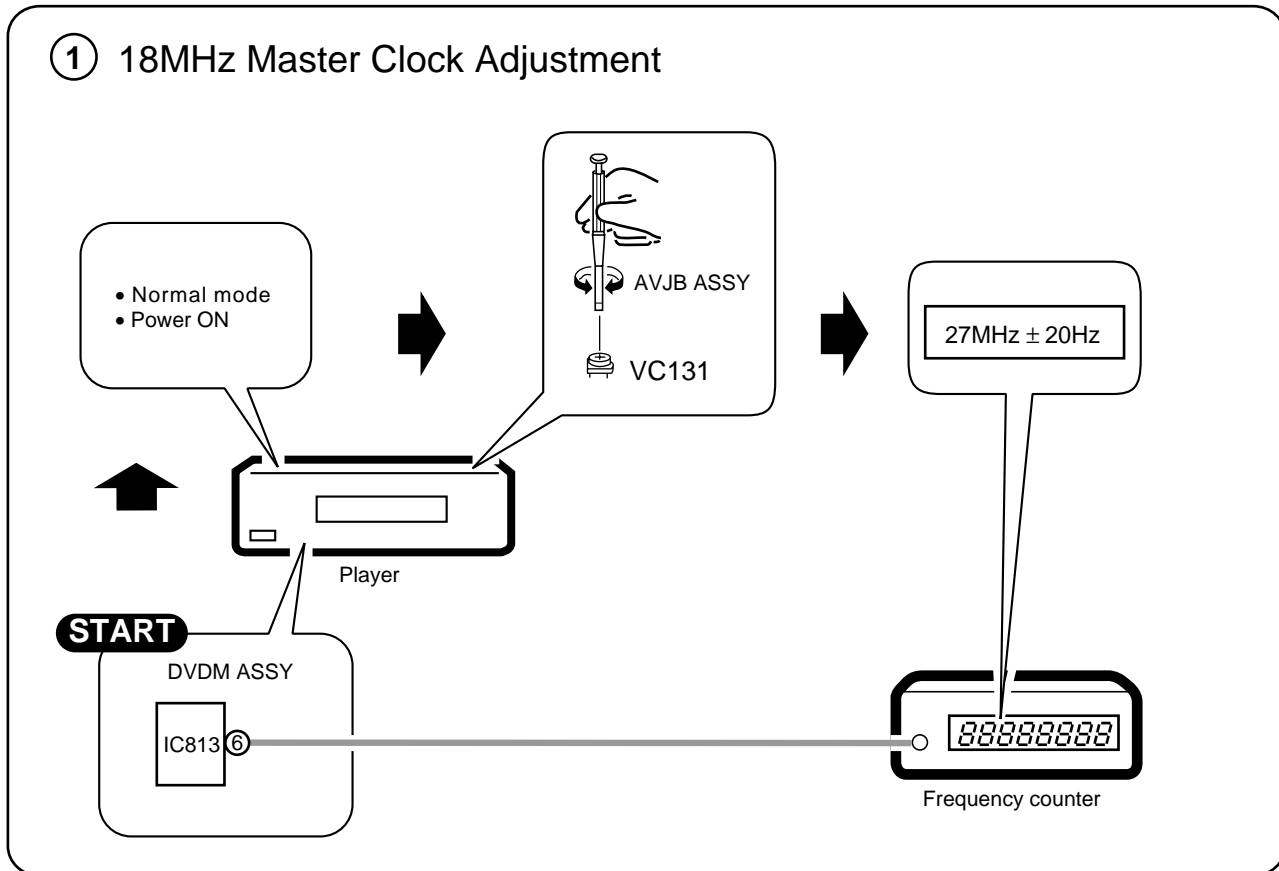
Note: Adjustment points and items are the same as those of base model except for the following.

■ADJUSTMENT POINT



① 18MHz Master Clock Adjustment

■ELECTRICAL ADJUSTMENT



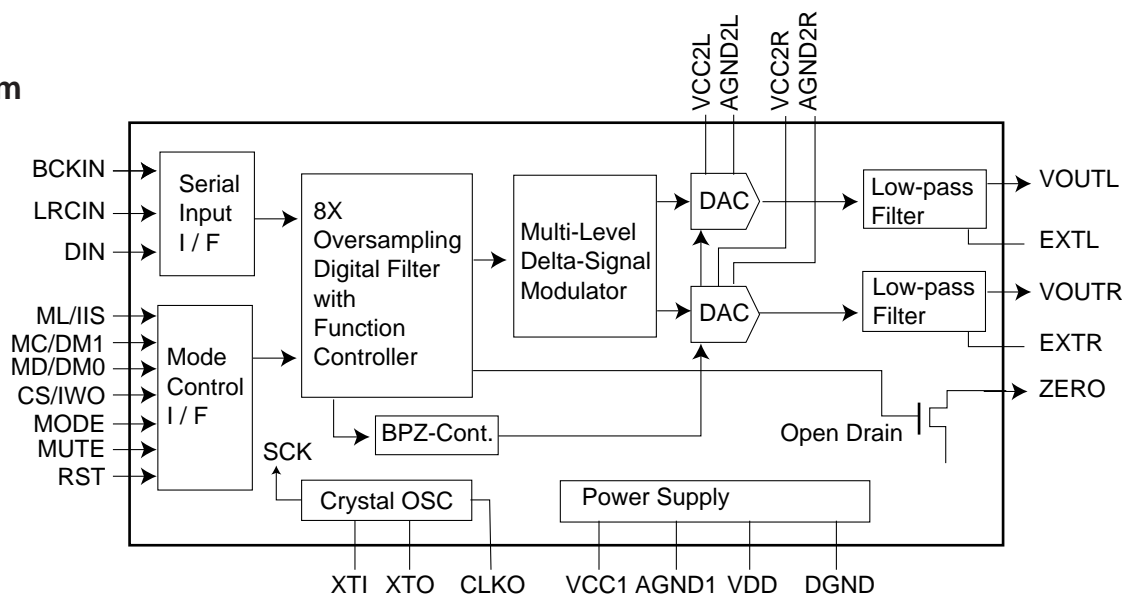
5. IC INFORMATION

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

■ PCM1716E (AVJB ASSY : IC201,IC301 and IC401)

• DAC

● Block Diagram



● Pin Function

No.	Pin Name	I/O	Function
1	LRCIN	IN	Left & right Clock Input. This clock is equal to the sampling rate-fs. *1
2	DIN	IN	Serial Audio DATA Input
3	BCKIN	IN	Bit Clock Input for Serial Audio DATA
4	CLKO	OUT	Buffered Output of Oscillator. Equivalent to System Clock.
5	XT1	IN	Oscillator Input (External Clock Input)
6	XTO	OUT	Oscillator Output
7	DGND	-	Digital Grand
8	VDD	-	Digital Power +5V
9	VCC2R	-	Analog Power +5V
10	AGND2R	-	Analog Grand
11	EXTR	OUT	R-ch, Common Pin of Analog Output Amp
12	NC	-	Non Connection
13	VOUTR	OUT	R-ch Analog Voltage Output of Audio Signal
14	AGND1	-	Analog Grand
15	VCC1	-	Analog Power +5V
16	VOUTL	OUT	L-ch Analog Voltage Output of Audio Signal
17	NC	-	Non Connection
18	EXTL	OUT	L-ch, Common Pin of Analog Output Amp
19	AGND2L	-	Analog Grand
20	VCC2L	-	Analog Power +5V
21	ZERO	OUT	Zero Data Flag
22	RESET	IN	Reset. When this pin is low, the DF & Modulator are held in reset. *2
23	CS/IWO	IN	Chip Select/Input Format Selection. When this pin is low, the Mode Control is effective. *3
24	MODE	IN	Mode Control Select (H:Software, L:Hardware) *2
25	MUTE	IN	Mute Control *2
26	MD/DM0	IN	Mode Control, Data/De-emphasis selection 1 *2
27	MC/DM1	IN	Mode Control, BCK/De-emphasis selection 1 *2
28	ML/IIS	IN	Mode Control, WDCK/Input format selection 1 *2

*1 : Schmit Trigger input

*2 : Schmit Trigger input with pull-up resistor

*3 : Schmit Trigger input with pull-down resistor