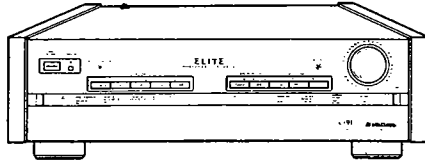


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Service Manual



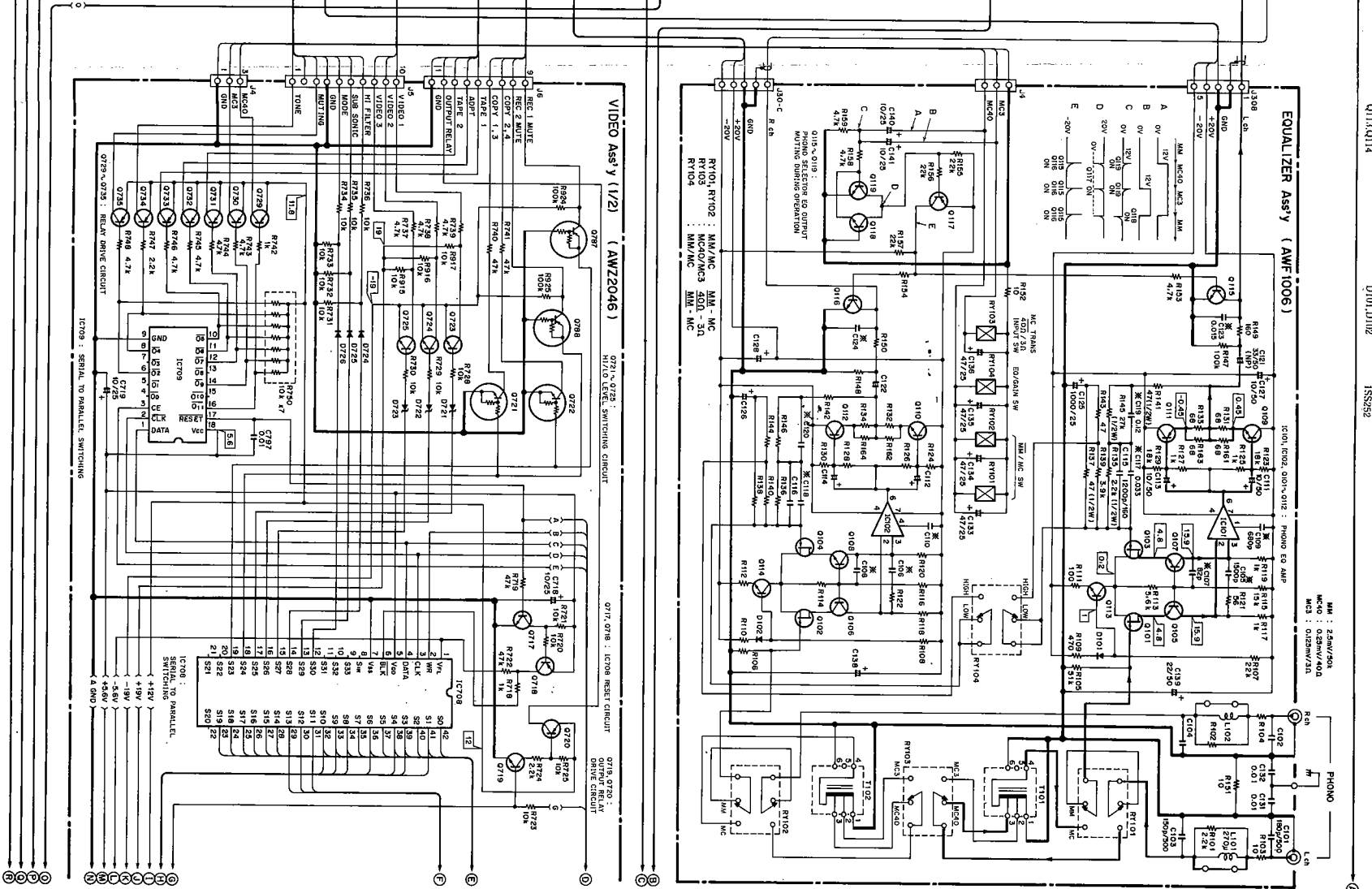
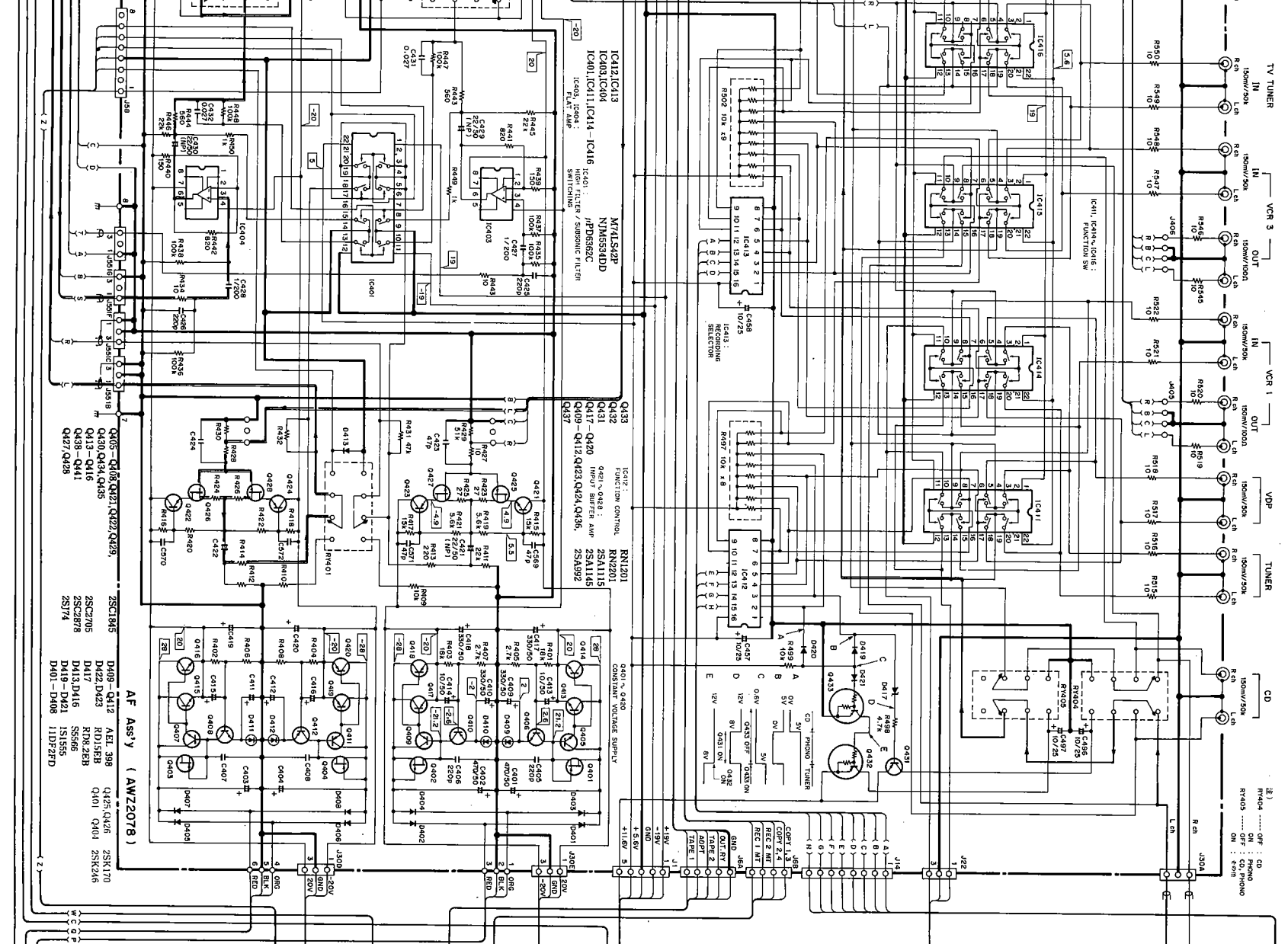
**ORDER NO.
ARZ1636**

STEREO CONTROL AMPLIFIER

C-91

PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan
PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, California 90801 U.S.A.
PIONEER ELECTRONICS OF CANADA, INC. 505 Cochrane Drive, Markham, Ontario L3R 8E3 Canada
PIONEER ELECTRONIC [EUROPE] N.V. Keetberglaan 1, 2740 Beveren, Belgium
PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911
PIONEER ELECTRONIC CORPORATION 1988





AF assembly (AWZ2078)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	C138, C139	CEXA220M50
	C121, C122	CEYANP330M50
	C131, C132	CKCYF103Z50
	C103, C104	CMA151J500
	C101, C102	CMA181J500
	C115, C116	COSXA122J160

RESISTORS

Mark	Symbol & Description	Part No.
	R135, R136, R145, R146	RDR1/2PM□□□□F
	R137, R138, R141, R142	RDR1/2PM□□□□J
	R131 - R134, R161 - R164	RD1/4PMFL680J
	R152	RD1/4PM100J
	R153 - R159	RD1/8PM□□□□J
	Other resistors	RDR1/4PM□□□□J

OTHERS

Mark	Symbol & Description	Part No.
	Terminal 2P (PHONO)	AKB1001

Control assembly (AWZ1055)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC304, IC305	M74LS42P
	IC301	PDE012
	IC302, IC303	PD0012A
	Q301, Q302	2SC2458
	D301 - D306	1SS131

COILS

Mark	Symbol & Description	Part No.
	X301 Ceramic resonator	ASS-046
	L301 Inductor (1mH)	ATH-098

CAPACITORS

Mark	Symbol & Description	Part No.
	C305, C306	CCDCH101J50
	C301, C304	CEANL470M16
	C307 - C310	CEAS100M25
	C302, C303	CKDYB103K50
	C313	CKDYB103K500
	C311, C312	CKDYF103Z50

RESISTORS

Mark	Symbol & Description	Part No.
	R301 Resistor array	RA4S103J
	R310 Resistor array	RA8S103J
	Other resistors	RD1/8PM□□□□J

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC417, IC418	LC49866
	IC407 - IC410	M5201P
	IC405, IC406	M5220P
	IC412, IC413	M74LS42P
	IC403, IC404	NJM5534DD
	IC401, IC411, IC414 - IC416	μPD6362C

RESISTORS

Mark	Symbol & Description	Part No.
	Q433	RN1201
	Q432	RN2201
	Q431	2SA1115
	Q417 - Q420	2SA1145
	Q409 - Q412, Q423, Q424, Q436, Q437	2SA992
	Q405 - Q408, Q421, Q422, Q429, Q430, Q434, Q435	2SC1845
	Q413 - Q416	2SC2705
	Q438 - Q441	2SC2878
	Q427, Q428	2SJ74
	Q425, Q426	2SK170
	Q401 - Q404	2SK246
	D409 - Q412	AEI - 398
	D422, D423 Zener diode	RD15EB
	D417 Zener diode	RD8.2EB
	D413, D416	S5566
	D419 - D421	1S1555
	D401 - D408	11DF2FD

OTHERS

Mark	Symbol & Description	Part No.
	Terminal 4P (TAPE1, AUDIO ADAP, VCR1)	AKB - 115
	Terminal 6P	AKB - 117
	Terminal 6P	AKB1005
	Terminal 6P	AKB1066
	Other resistors	RDR1/4PM□□□□J

Video assembly (AWZ2046)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC708	LC7570
	IC709	PD0012A
	IC707	TC4011BP
	IC701 - IC706	TC4066BP
	IC710	TC4069UBP
	Q716	RN1201
	Q721, Q722	RN1203
	Q787, Q788	RN2203
	Q714, Q715, Q718, Q720, Q726, Q729 - Q736, Q747, Q749, Q751, Q752, Q766, Q781, Q783, Q785	2SA1115
	Q704	2SA1145
	Q739, Q745	2SA1346
	Q708, Q742	2SA985A
	Q741	2SC2275
	Q717, Q719, Q723 - Q725, Q737, Q743, Q748, Q750, Q753 - Q765, Q767 - Q774, Q776 - Q779, Q786	2SC2803
	Q702	2SC2705
	Q713, Q744, Q780, Q782, Q784	2SC2878
	Q728, Q738, Q740, Q746	2SC3400
	Q706, Q710, Q712	2SD836A
	Q701, Q703, Q705, Q707, Q709, Q711	2SK246

CAPACITORS

Mark	Symbol & Description	Part No.
	C717 (47000 μF/5.5V)	ACH1070
	C745	CCCCH121J50
	C740, C742	CCCCH330J50
	C764	CCCCH470J50
	C763	CCCCH680J50
	C749, C787, C794	CCCSSL101J50
	C739, C785	CCCSSL221J50
	C743, C793	CCCSSL270J50
	C747, C759, C768, C771	CCCSSL330J50
	C766	CCCSSL390J50
	C781	CEAS01.0M50
	C718, C719, C723, C744, C754, C792, C796	CEAS100M25
	C722	CEAS100M50
	C708, C710, C724, C725, C738, C751, C760, C783, C784	CEAS101M10
	C748, C750, C769, C772, C776, C777	CEAS101M16
	C703 - C706, C712	CEXA101M25
	C729, C732, C733, D736, C773 - C775	CEAS102M10
	C791	CEAS102M6
	C713	CEAS101M25
	C711	CEAS102M25

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	D713 Zener diode	RD13EB
	D714 Zener diode	RD13ESB3
	D721 - D723 Zener diode	RD18EB
	D753 Zener diode	RD2.7ESB
	D709, D710 Zener diode	RD20ESB2
	D729, D730 Zener diode	RD4.3ESB1
	D750 Zener diode	RD5.6ESB2
	D743 Zener diode	RD6.2ESB2
	D712 Zener diode	RD6.8ESB2
	D711 Zener diode	1SS252
	D724 - D726, D731 - D733, D735 - D742, D744, D746, D751, D752	10E2FD
	D715 - D718	S5566
	D701 - D708, D747	

COILS

Mark	Symbol & Description	Part No.
	L701 - L704 Inductor (1100 μH)	ATH - 050
	L712 Inductor (5.6 μH)	ATH - 065
	L708 Inductor (15 μH)	ATH - 075
	L705, L711 Inductor (10 μH)	ATH - 078
	L714 Inductor (47 μH)	ATH - 082
	L716, L717 Inductor (1mH)	ATH - 098
	L710 Inductor (33 μH)	ATH - 100
	L706, L707, L713 Inductor (56 μH)	ATH - 104
	DL701 Delay cable	ATL - 034

5. SCHEMATIC DIAGRAM

A

1. RESISTORS:
Indicated in Ω, 1/4W, and 1/8W, ±5% tolerance unless otherwise noted. K, M, ML, (M), (F), ±1%, (G), ±2%, (K), ±10%, (M), ±20% tolerance
2. CAPACITORS:
Indicated in capacity (μF)/voltage (V) unless otherwise noted. p, pf, indication without voltage is 50V except electrolytic capacitor.
3. VOLTAGE, CURRENT:
V: Signal voltage at no input signal value in () is DC voltage at rated power.
W + W, 80, output (1 KH)

4. OTHERS:

⊙: Signal route.
⊕: Adjusting point.
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.
X marked capacitors and resistors have parts numbers.
The underlined indicates the switch position.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

5. SWITCH

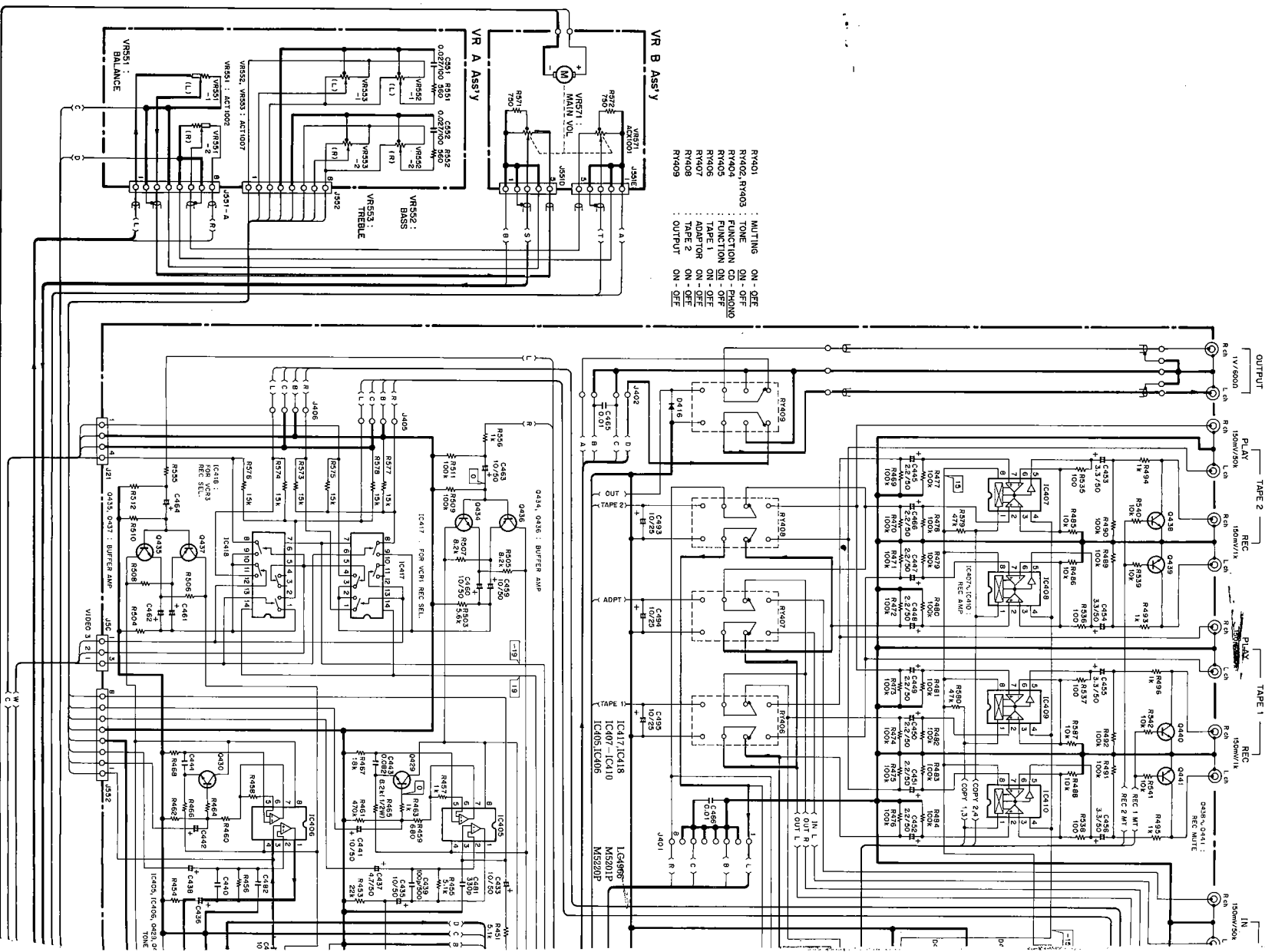
S1: Power switch ON - OFF

B

- S341: V. D. P.
- S342: VIDEO 1
- S343: VIDEO 2
- S344: VIDEO 3
- S345: VAUX
- S346: CD
- S347: PHONO
- S348: TUNER
- S349: TAPE 1
- S350: TAPE 2
- S351: RESEL
- S352: AUDIO ADAPTOR
- S353: VIDEO ADAPTOR
- S354: ENHANCER
- S355: HIGH CUT
- S356: SUBSONIC FILTER
- S357: MODE
- S358: DUBBING
- S359: PHONO SELECTOR
- S360: MUTE
- S361: VIDEO FUNCTION
- S362: STAND-BY
- S391: TONE

The underlined indicates the switch position.

C



SWITCHES

Mark	Symbol & Description	Part No.
	S341 - S362 Tact switch (MUTE, VIDEO ADAP- TOR, TAPE1, V/AUX, V.D.P, VIDEO1, CD, TAPE2, ENHANCER, MODE, VIDEO FUNCTION, DUBING, HI CUT, REC SEL, PHONO, VIDEO2, VIDEO3, TUNER, AUDIO ADAPTOR, SUB- SONIC FILTER, PHONO SELECTOR, STAND BY)	ASSG-711

Terminal assembly

CAPACITORS

Mark	Symbol & Description	Part No.
	C798 - C800	CKCYF473Z50

RESISTORS

Mark	Symbol & Description	Part No.
	R911	RD1/8PM750J

OTHERS

Mark	Symbol & Description	Part No.
	Terminal 1P (VIDEO2 OUT, VIDEO2 IN)	AKB1004

VR assembly
SEMICONDUCTOR

Mark	Symbol & Description	Part No.
	D745	1SS252

RESISTORS

Mark	Symbol & Description	Part No.
	VR701 - VR703 Variable resistor (1K)	ACT1003

Fuse assembly

COIL

Mark	Symbol & Description	Part No.
△	L715 Line filter	ATF-163

Mark	Symbol & Description	Part No.
	D602, D604, D606 Zener diode	RD13ESB2
	D607 Zener diode	RD5.1ESB1
	D608 - D619	1SS252
	D601, D603, D605	11E2
	D620	RD6.8ESB2

CAPACITORS

Mark	Symbol & Description	Part No.
	C619, C620, C625, C626, C631, C632	CCCSL330J50
	C622, C628, C634	CEAS101M10
	C601, C603, C605, C607, C609, C611, C613, C615, C617, C624, C630, C636, C642	CEAS101M16

Mark	Symbol & Description	Part No.
	C621, C627, C633	CEAS102M10
	C637 - C640	CEAS330M25
	C623, C629, C635	CEAS331M16
	C602, C604, C606, C608, C610, C612, C614, C616, C618	CEAS470M16
	C641	CEAS470M25
	C643, C644	CKDYX473M25

RESISTORS

Mark	Symbol & Description	Part No.
	R670 Resistor array	RA6S104J
	R609, R610, R615, R616, R623, R624, R629, R630, R637, R638, R643, R644	RD1/2PM□□□J
	R649	RD1/4PM222J
	R650	RS1LMF4R7J

Mark	Symbol & Description	Part No.
△	R912 - R914	REA1/4PS□□□J
△	R904	RS1LMF4R7J
△	Other resistors	RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	4P Mini DIN socket (VCR1, VCR3, TV/AUX IN, MONITOR OUT)	AKP1016

SW.A assembly (AWZ1056)
SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	D349, D351, D353, D355, D357, D368 - D372	AEL-451
	D341 - D348, D359 - D366, D373 - D381	AEL1004
	D350, D352, D354, D356, D358	AEL1005

Mark	Symbol & Description	Part No.
	C752, C753	CEAS220M16
	C756	CEAS221M10
	C728, C731, C735	CEAS221M16
	C761	CEAS331M16
	C714, C801	CEAS332M25

Mark	Symbol & Description	Part No.
	C780	CEAS4R7M50
	C737, C741, C788, C789	CEAS470M10
	C758, C770	CEAS470M16
	C727, C730, C734, C778	CEAS470M25
	C709, C726, C757	CEAS471M10

Mark	Symbol & Description	Part No.
	C701, C702	CEAS471M35
	C707	CEHAQ101M10
	C715, C716	CEHAQ101M25
	C746, C762	CKCYF102Z50
	C755, C765, C767, C782, C797	CKCYF103Z50
	C720, C721	CKCYF473Z50

RESISTORS

Mark	Symbol & Description	Part No.
	R750 Resistor array	RA7S103J
	R795, R800, R835, R883, R887, R891	RD1/2PM□□□J
	R779, R781, R789, R791, R901, R903	RD1/4PM□□□J
	R867	REA1/4PL680J

Mark	Symbol & Description	Part No.
△	R912 - R914	REA1/4PS□□□J
△	R904	RS1LMF4R7J
△	Other resistors	RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	Terminal 3P (VIDEO1, VIDEO3)	AKB-134
	Terminal 3P (V ADAPTOR)	AKB1067
	Terminal 1P (MON.)	AKB1068
	Mini Jack (REMOTE CONTROL)	AKN-207
	5P DIN socket (RF:MOD)	AKP-081

Video assembly (AWQ1004)
SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC601 - IC606	CX-894
	IC608, IC609	TC4053BP
	IC607	TC4066BP

Mark	Symbol & Description	Part No.
	O601, O602, O605, O608, O609, O610	2SA1048
	O619	2SA965
	O613, O615, O617	2SC2235
	O603, O604, O607, O608, O611, O612, O620	2SC2458
	O614, O616, O618	2SK246

SW.B assembly
SWITCH

Mark	Symbol & Description	Part No.
	S391 Tact switch (TONE)	ASG-711

VR.A assembly

CAPACITORS

Mark	Symbol & Description	Part No.
	C551, C552 Polyester capacitor	COMXA273J100

RESISTORS

Mark	Symbol & Description	Part No.
	VR551 Variable resistor (50K x 2)	ACT1002
	VR552, VR553 Variable resistor (10K x 2)	ACT1007
	R551, R552	RDRI/4PM561J

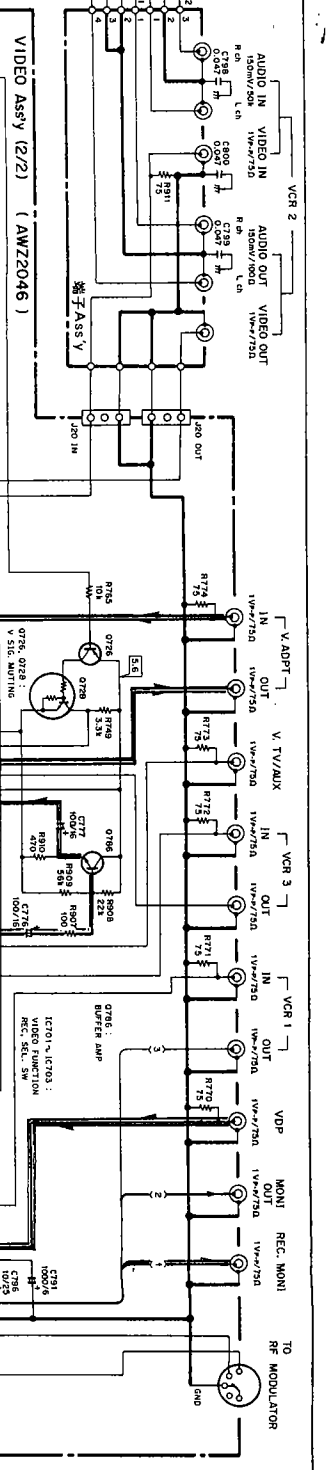
VR.B assembly

RESISTORS

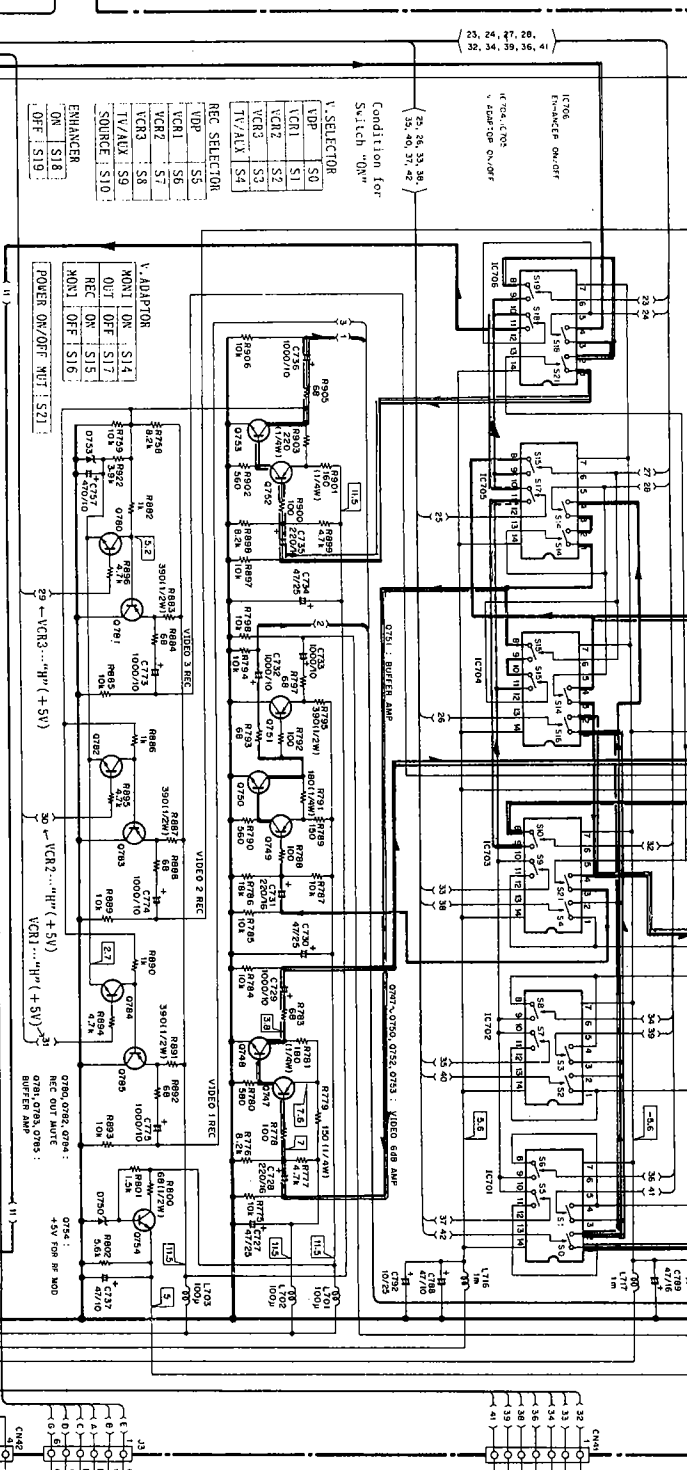
Mark	Symbol & Description	Part No.
	VR571 Variable resistor (15K x 2)	ACX1017
	R571, R572	RDRI/4PM751J

- D80 IC601 - IC606 CX - 894
- D81 IC608, IC609 TC4053BP
- D82 IC507 TC4068BP
- D83 IC613, IC615, IC617 DB19
- D84 IC604, IC607, IC608, IC611, IC612, IC613, IC615, IC618 DB2
- D85 IC507 TC4068BP
- D86 IC613, IC615, IC617 DB19
- D87 IC604, IC607, IC608, IC611, IC612, IC613, IC615, IC618 DB2
- D88 IC613, IC615, IC617 DB19
- D89 IC613, IC615, IC617 DB19
- D90 IC613, IC615, IC617 DB19
- D91 IC613, IC615, IC617 DB19
- D92 IC613, IC615, IC617 DB19
- D93 IC613, IC615, IC617 DB19
- D94 IC613, IC615, IC617 DB19
- D95 IC613, IC615, IC617 DB19
- D96 IC613, IC615, IC617 DB19
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- D99 IC613, IC615, IC617 DB19
- D100 IC613, IC615, IC617 DB19

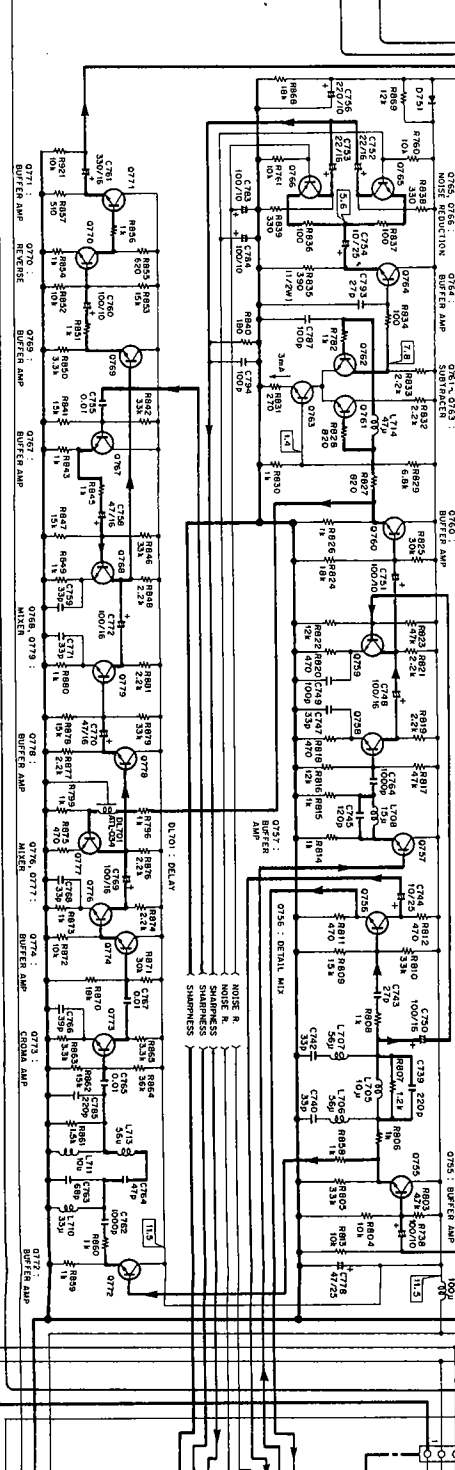
A



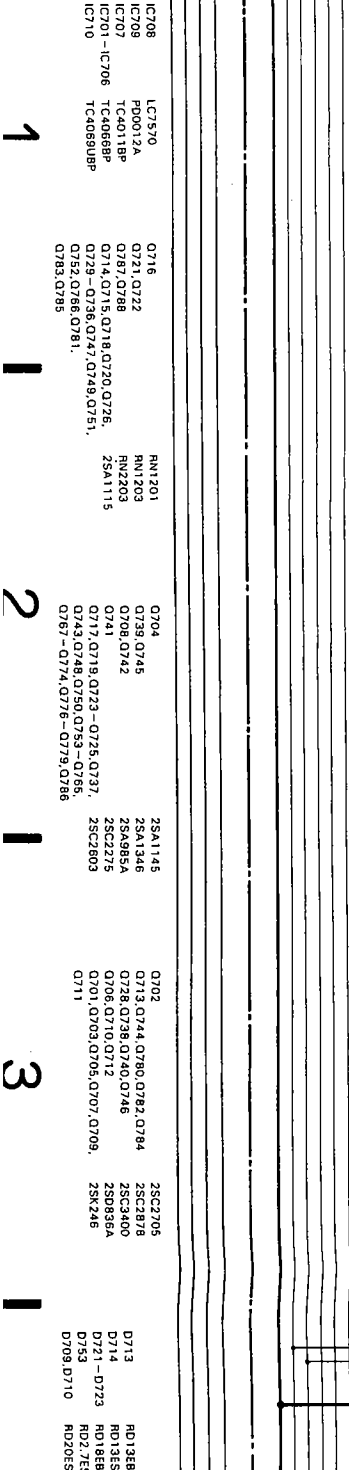
B



C



D



- IC708 LC7570
- IC709 P80012A
- IC710 TC4011BP
- IC711 - IC706 TC4068BP
- IC710 IC710
- IC716 0716
- IC721, IC722 0721, 0722
- IC767, IC768 0767, 0768
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- IC713 0713
- IC714 - IC716 0714, 0715, 0716
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- IC701 - IC706 0701, 0706
- IC710 - IC716 0710, 0716
- IC720 - IC726 0720, 0726
- IC730 - IC736 0730, 0736
- IC740 - IC746 0740, 0746
- IC750 - IC756 0750, 0756
- IC760 - IC766 0760, 0766
- IC770 - IC776 0770, 0776
- IC780 - IC786 0780, 0786
- IC790 - IC796 0790, 0796
- IC800 - IC806 0800, 0806
- IC810 - IC816 0810, 0816
- IC820 - IC826 0820, 0826
- IC830 - IC836 0830, 0836
- IC840 - IC846 0840, 0846
- IC850 - IC856 0850, 0856
- IC860 - IC866 0860, 0866
- IC870 - IC876 0870, 0876
- IC880 - IC886 0880, 0886
- IC890 - IC896 0890, 0896
- IC900 - IC906 0900, 0906
- IC910 - IC916 0910, 0916
- IC920 - IC926 0920, 0926
- IC930 - IC936 0930, 0936
- IC940 - IC946 0940, 0946
- IC950 - IC956 0950, 0956
- IC960 - IC966 0960, 0966
- IC970 - IC976 0970, 0976
- IC980 - IC986 0980, 0986
- IC990 - IC996 0990, 0996

TC4053BP (IC608, IC609)

SPECIFICATIONS

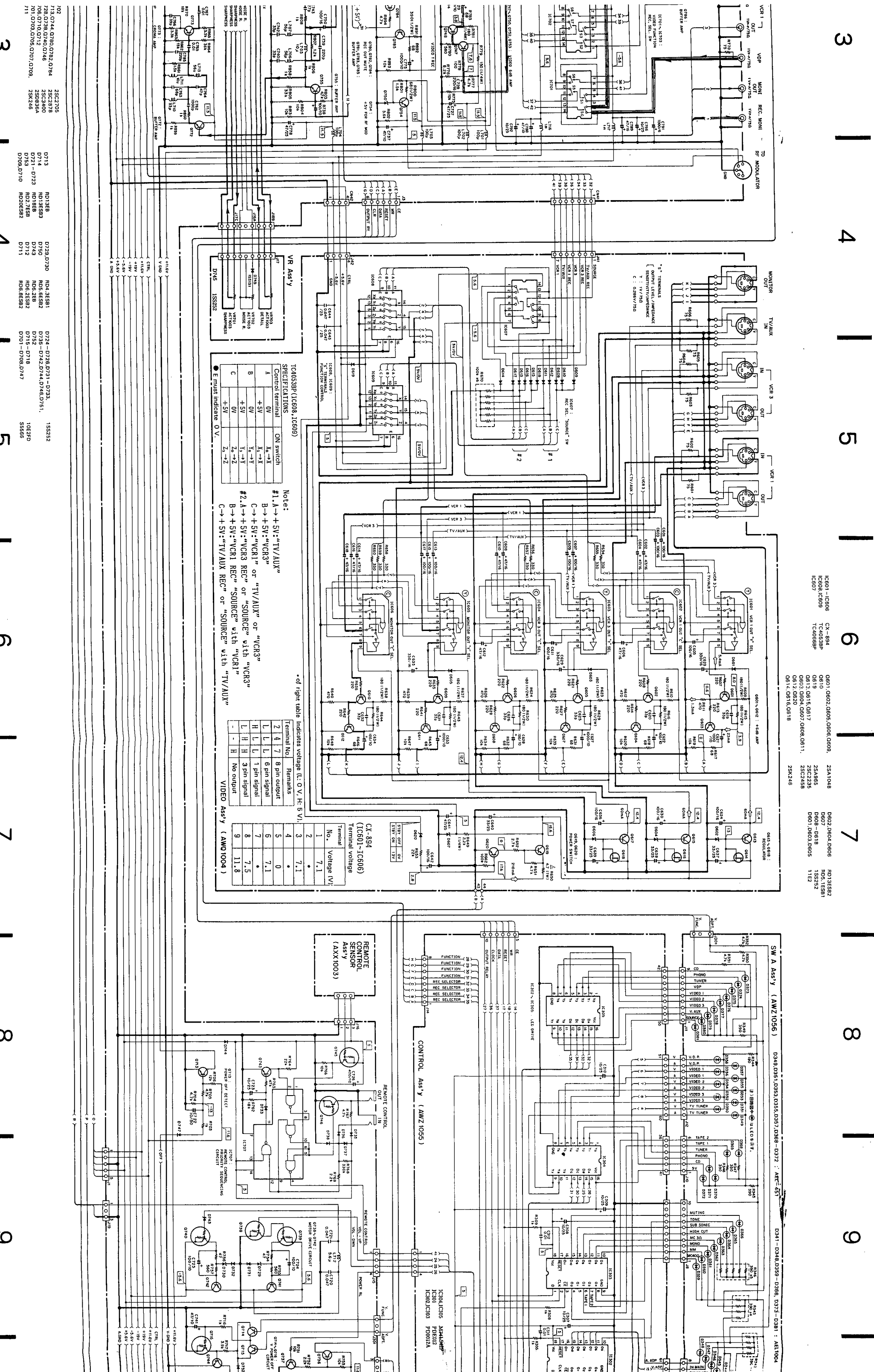
Control terminal	ON switch
A	K ₁ → X
B	UV
C	UV
	V ₁ → Y
	V ₂ → Z
	Z → Z

Note: #1, A → +5V: "TV/AUX"
 B → +5V: "VCR3"
 C → +5V: "VCR1" or "TV/AUX" or "SOURCE" with "VCR3"
 #2, A → +5V: "VCR3 REC" or "SOURCE" with "VCR3"
 B → +5V: "VCR1 REC" or "SOURCE" with "VCR1"
 C → +5V: "TV/AUX REC" or "SOURCE" with "TV/AUX"

* of right table indicates voltage (L: 0 V, H: 5 V).

Terminal No.	Remarks
2, 4, 7	B pin output
L, L, L	B pin signal
H, L, L	1 pin signal
L, H, H	3 pin signal
-	No output

VIDEO ASS'Y



713 0744 Q780 Q784
718 0738 Q740 Q748
726 0710 Q712
701 Q709 Q706 Q707 Q709
711

25C2705
25C2776
25C2950
25C2954
25C3246

D713
D714
D721 - D723
D753
D709-D710

R013E8
R013E8B
R013E8C
R013E8D
R027E5B
R027E5C
R027E5D

D729-D730
RD4.3E5B1
RD5.3E5B2
RD6.3E5B3
RD7.3E5B4
RD8.3E5B5

D724 - D726 D731 - D733
D735 - D742 D744 D748 D751
D752 - D718
D701 - D708 D747

1SS252
10E2F0
5S586

TC4053BP (IC608, IC609)
SPECIFICATIONS
Control Terminal ON switch

A	0V	K ₂ -X
B	+5V	K ₃ -X
C	0V	L ₂ -Y
D	+5V	L ₃ -Y
E	0V	Z ₁ -Z
F	+5V	Z ₂ -Z

Note:
#1. A → +5V: "TV/AUX"
B → +5V: "VCR3"
C → +5V: "VCR1" or "TV/AUX" or "VCR3"
D → +5V: "VCR1" or "SOURCE" with "VCR3"
E → +5V: "VCR1 REC" or "SOURCE" with "VCR1"
F → +5V: "TV/AUX REC" or "SOURCE" with "TV/AUX"

* of right table indicates voltage (L: 0 V, H: 5 V).

Terminal No.	Remarks
2 4 7	8 pin output
L L L	6 pin signal
L L L	1 pin signal
H H H	3 pin signal
- - -	No output

Terminal	Voltage (V)
1	7.1
2	*
3	7.1
4	0
5	0
6	7.1
7	7.5
8	7.5
9	11.8

IC601-IC608 CX-894
IC608, IC609 TC4053BP
IC607 TC4068BP

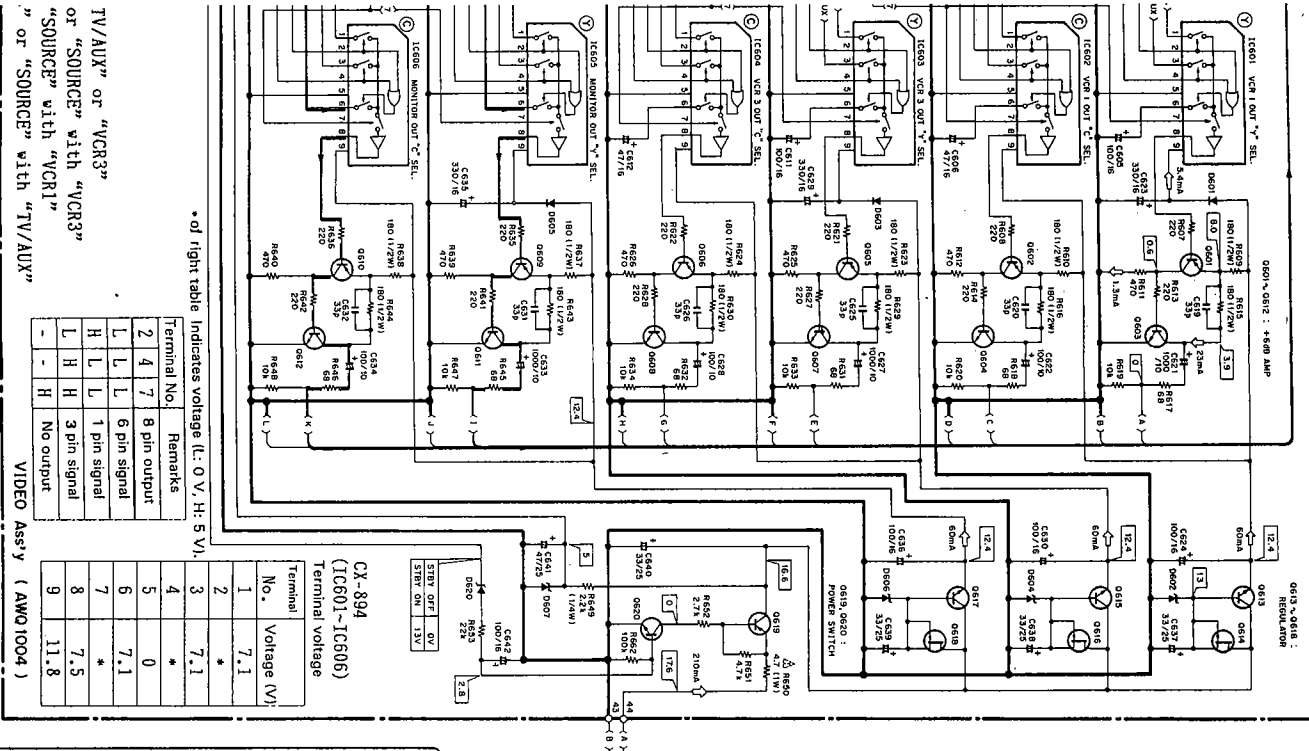
D601, D602, D605, D606, D609, 25A1048
D610 25A995
D619 25A996
D613, D615, D617 25C2458
D603, D604, D607, D608, D611, 25C2458
D612, D620 25C2458
D614, D616, D618 25K246

D602, D604, D606, 1R013E5B2
D607 - D618 R013E5B1
D609, D603, D605 11E2
D601, D603, D605 11E2

Terminal	Voltage (V)
1	7.1
2	*
3	7.1
4	0
5	0
6	7.1
7	7.5
8	7.5
9	11.8

D602, D604, D606, 1R013E5B2
D607 - D618 R013E5B1
D609, D603, D605 11E2
D601, D603, D605 11E2

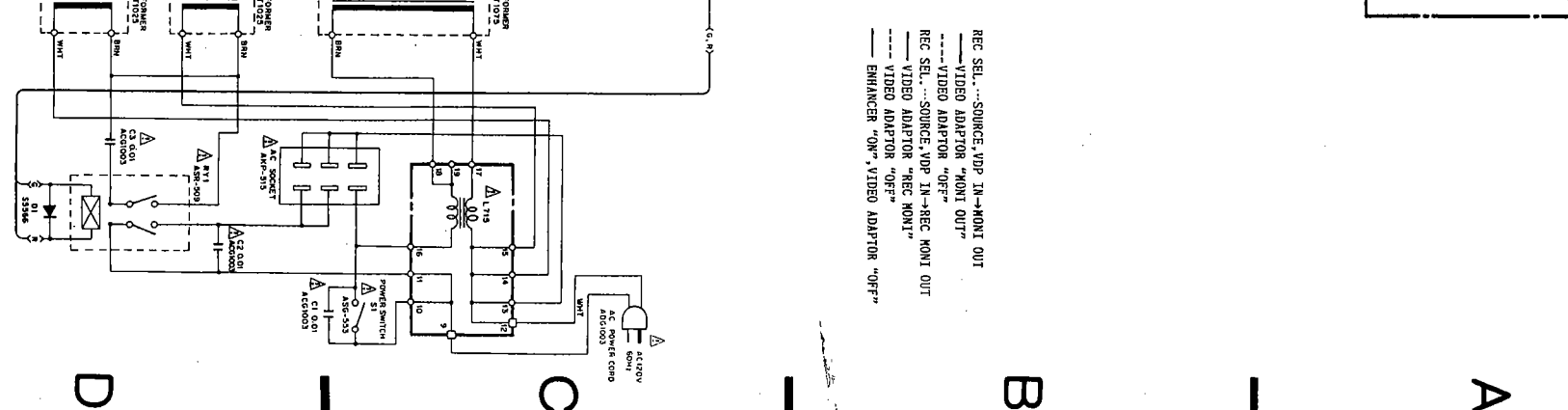
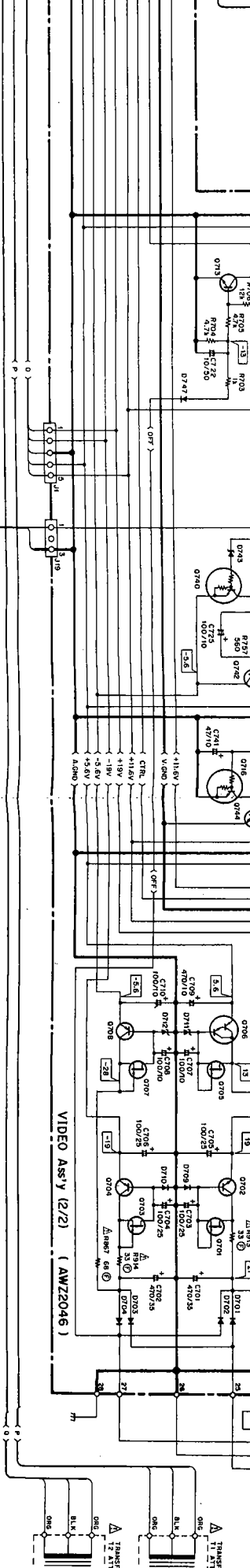
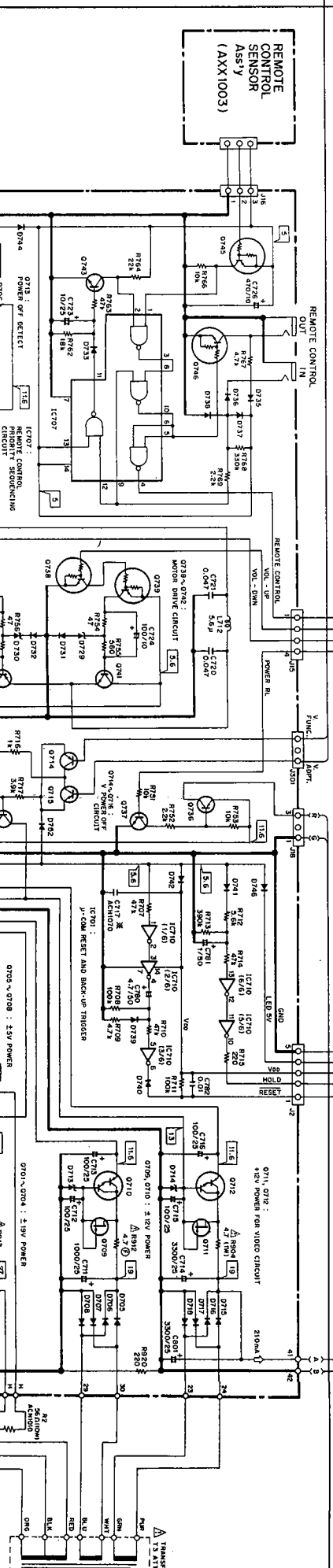
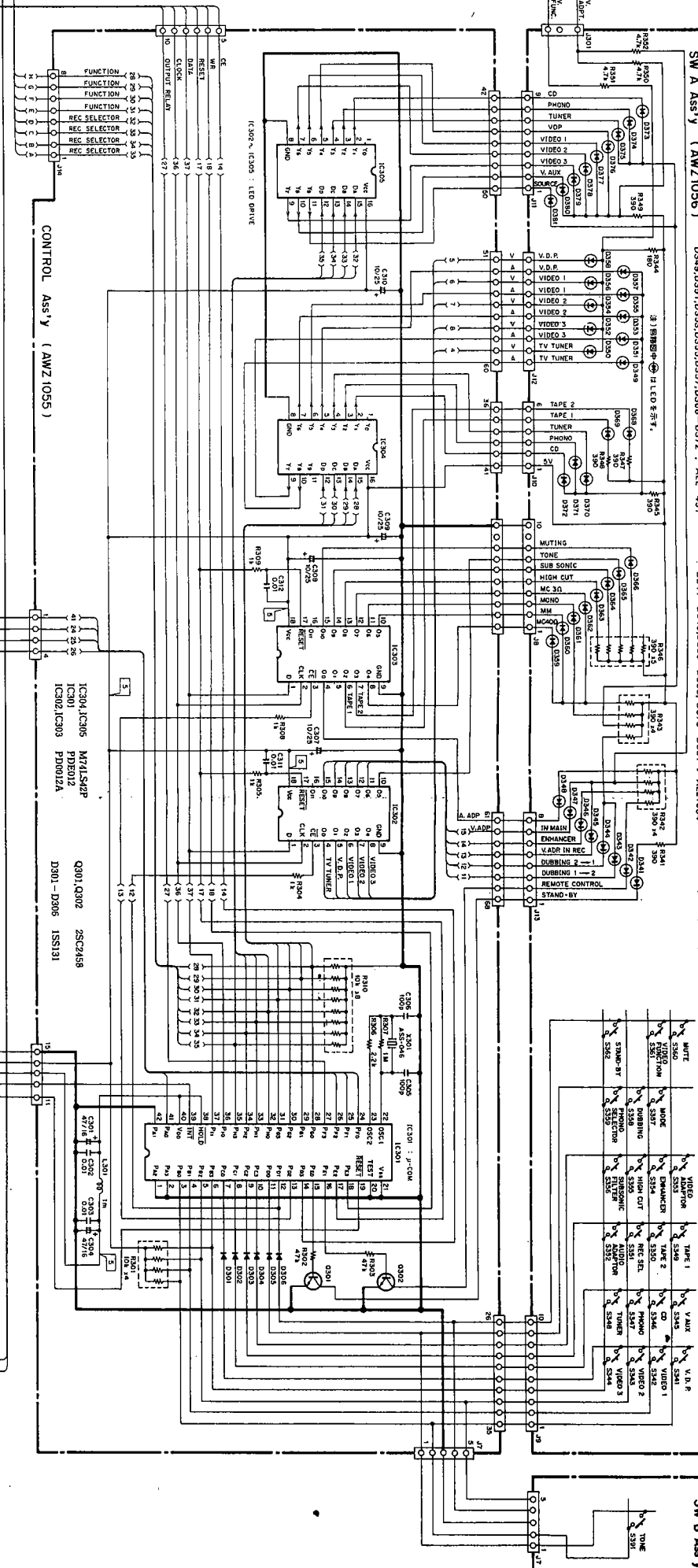
01-IC806	CX-894	0801,0802,0805,0806,0809	25A1048	D802,D804,D806	R01,3E582
08-IC809	TC4058BP	0819	25A985	D808-D818	R05,1E581
	TC4058BP	0813,0815,0817	25C235	D801,D803,D805	1S522
		0803,0804,0807,0808,0811	25C248		11E2
		0812,0820			
		0814,0816,0818	25X248		



*of right table indicates voltage (L: 0 V, H: 5 V).

Terminal No.	Remarks	Voltage (V)
1		7.1
2		*
3		7.1
4		0
5		7.1
6		7.1
7		*
8		7.5
9		11.8

VIDEO ASSY (AW1004)



- REC SEL...SOURCE: VPP IN-MONI OUT
- VIDEO ADAPTOR "MONI OUT"
- VIDEO ADAPTOR "OFF"
- REC SEL...SOURCE: VPP IN-MON MONI OUT
- VIDEO ADAPTOR "REC MONI"
- VIDEO ADAPTOR "OFF"
- ENHANCER "ON" VIDEO ADAPTOR "OFF"

