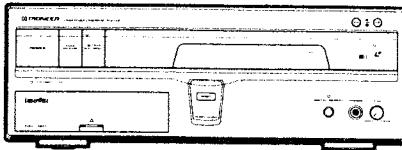


PIONEER
The Art of Entertainment

Service Manual



ORDER NO.
ARZ2757

CD CDV LD PLAYER

CLD-A100

CIRCUIT DIAGRAMS &
PATTERN LAYOUTS
WITH MICROFICHE

(MICROFICHE PORTION LOCATED INSIDE BACK COVER)

PIONEER ELECTRONIC CORPORATION

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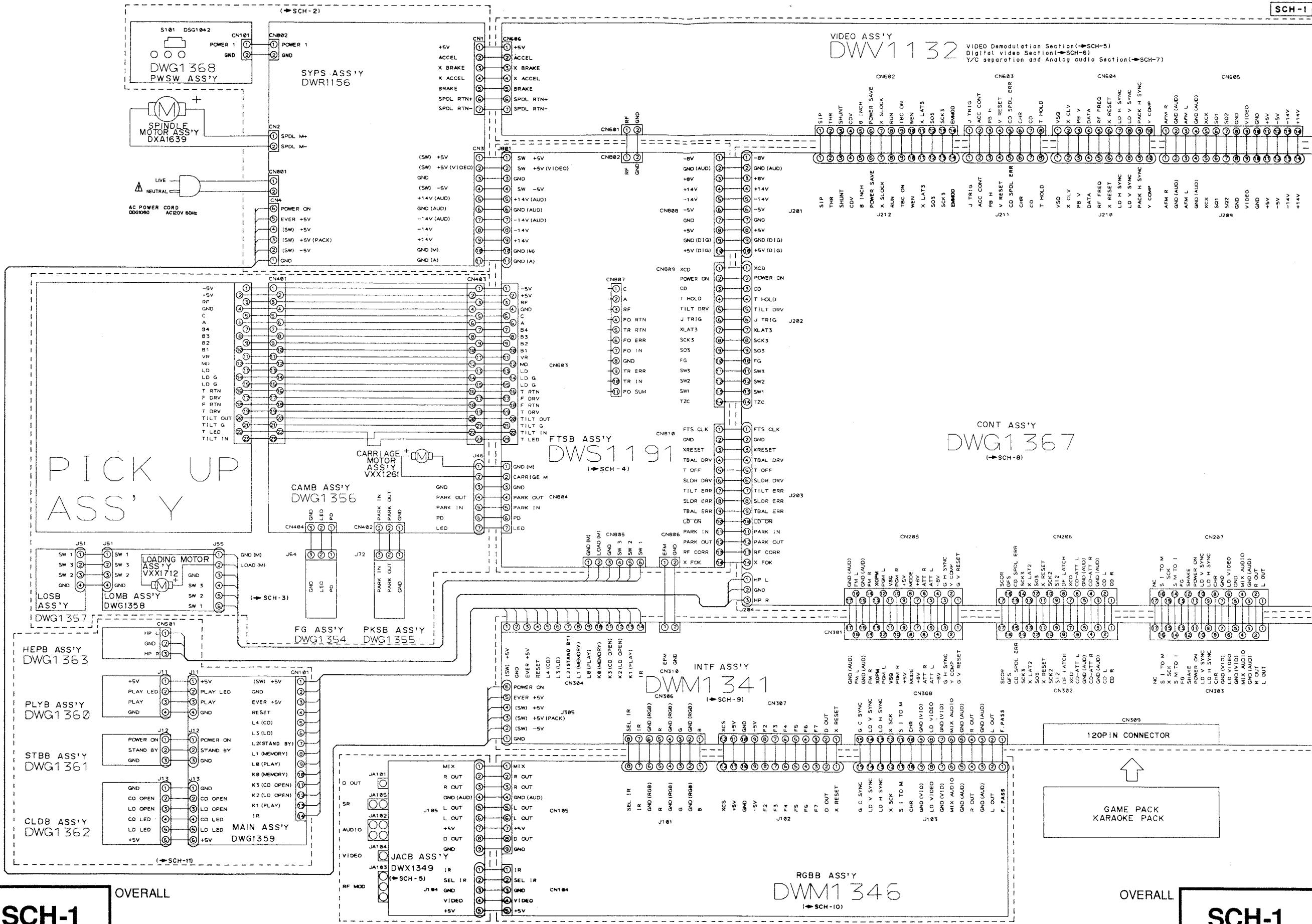
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FJ JULY 1993 Printed in Japan

5.1 OVERALL WIRING DIAGRAM



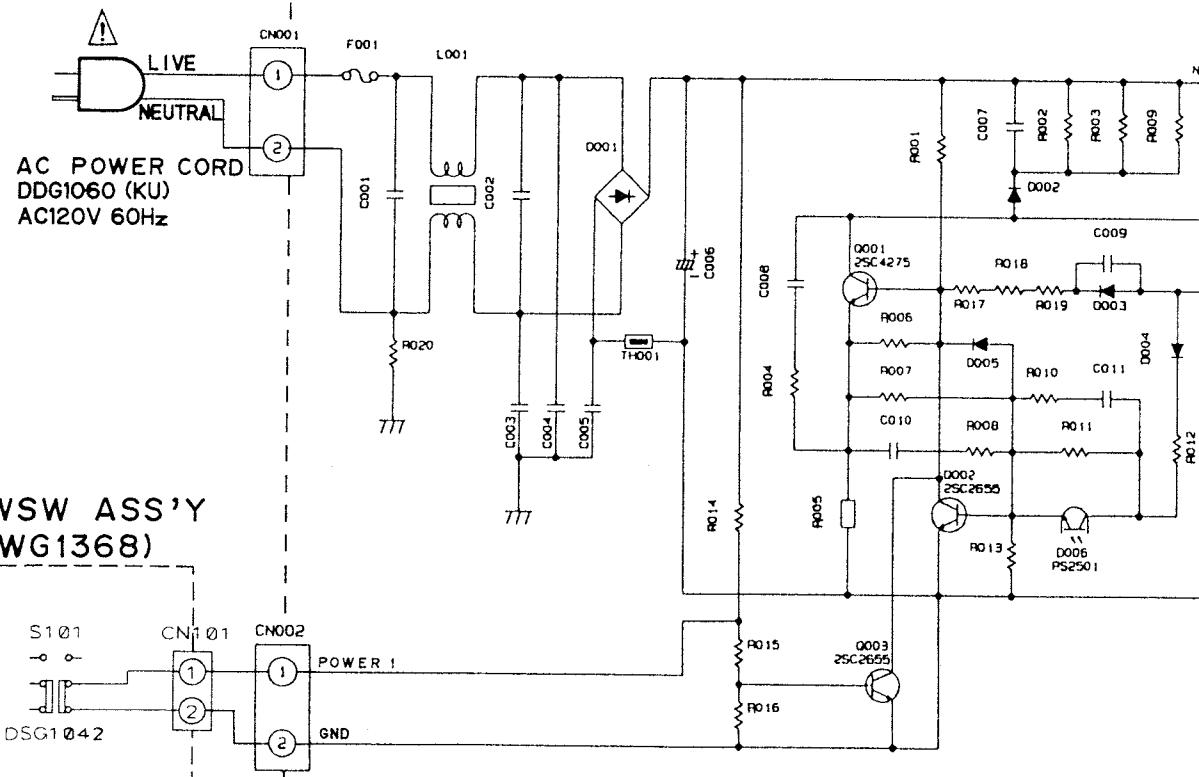
5.2 SYPS, PWSW ASS'Y

A

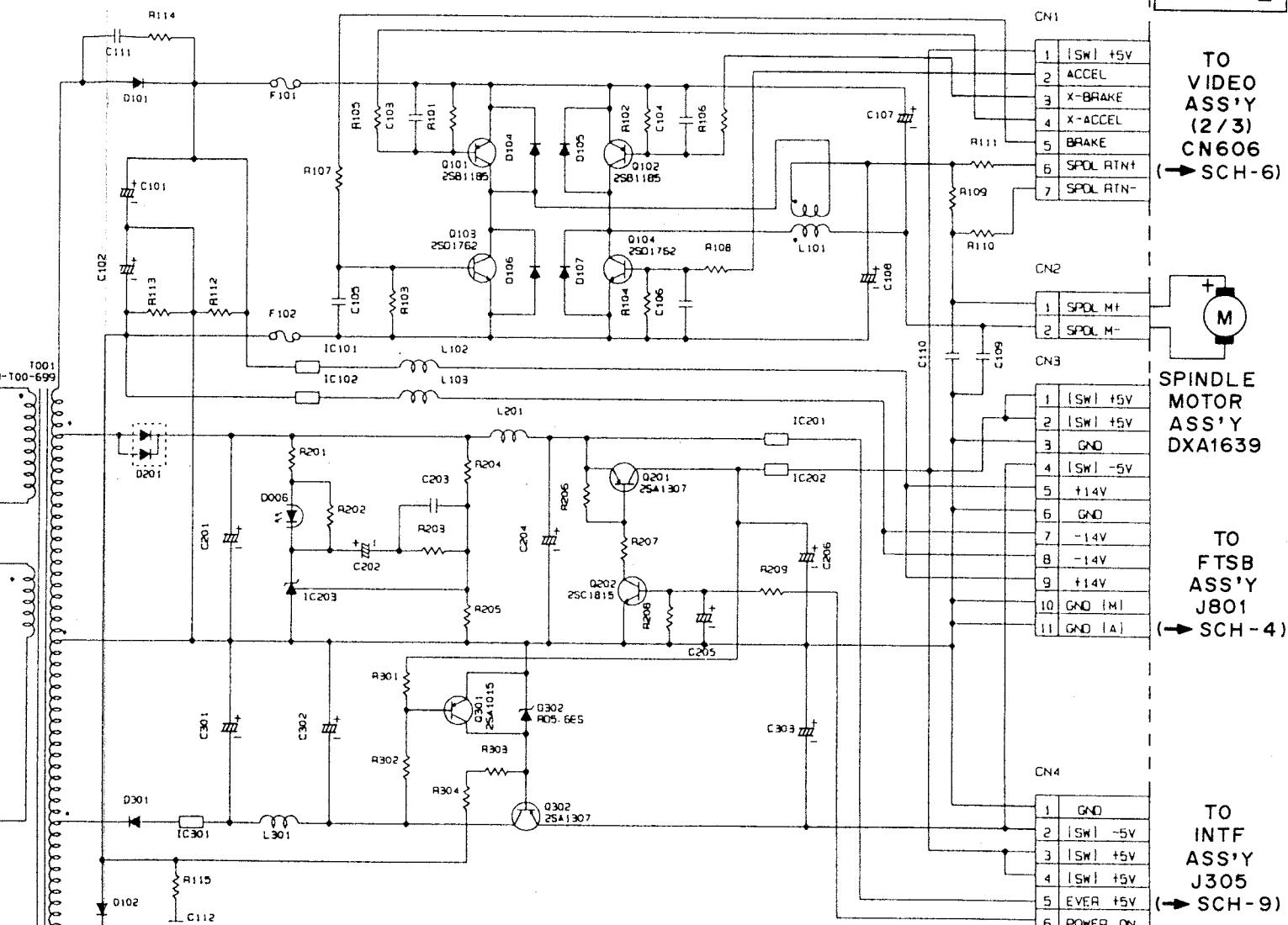
A

SYPS ASS'Y (DWR1156)

IC101, 102 : ICP-N15
 IC201 : ICP-N25
 IC202, 301 : ICP-N50
 IC203 : UPC1093J
 D1 : D2SB40-4001
 D101, 102 : ERC91-02L
 D104-107 : ERA91-02V
 D2 : ERB44-04V
 D201 : ESAB82M
 D3 : ERB44-02V
 D301 : ERB83-004
 D302 : RD5.6ES
 D4, 5 : ISS178TPA
 D6 : PS2501

PWSW ASS'Y
(DWG1368)

CAUTION: FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE
NO. ICP-N50, MFD BY ROHM
CO., LTD, FOR IC101 AND IC102.



CAUTION: FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE
NO. ICP-N50, MFD BY ROHM
CO., LTD, FOR IC202 AND IC301.

CAUTION: FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE
NO. ICP-N25, MFD BY ROHM
CO., LTD, FOR IC201.

SCH-2

SYPS ASSY,
PWSW ASSY

SCH-2

SYPS ASSY,
PWSW ASSY

1

2

3

4

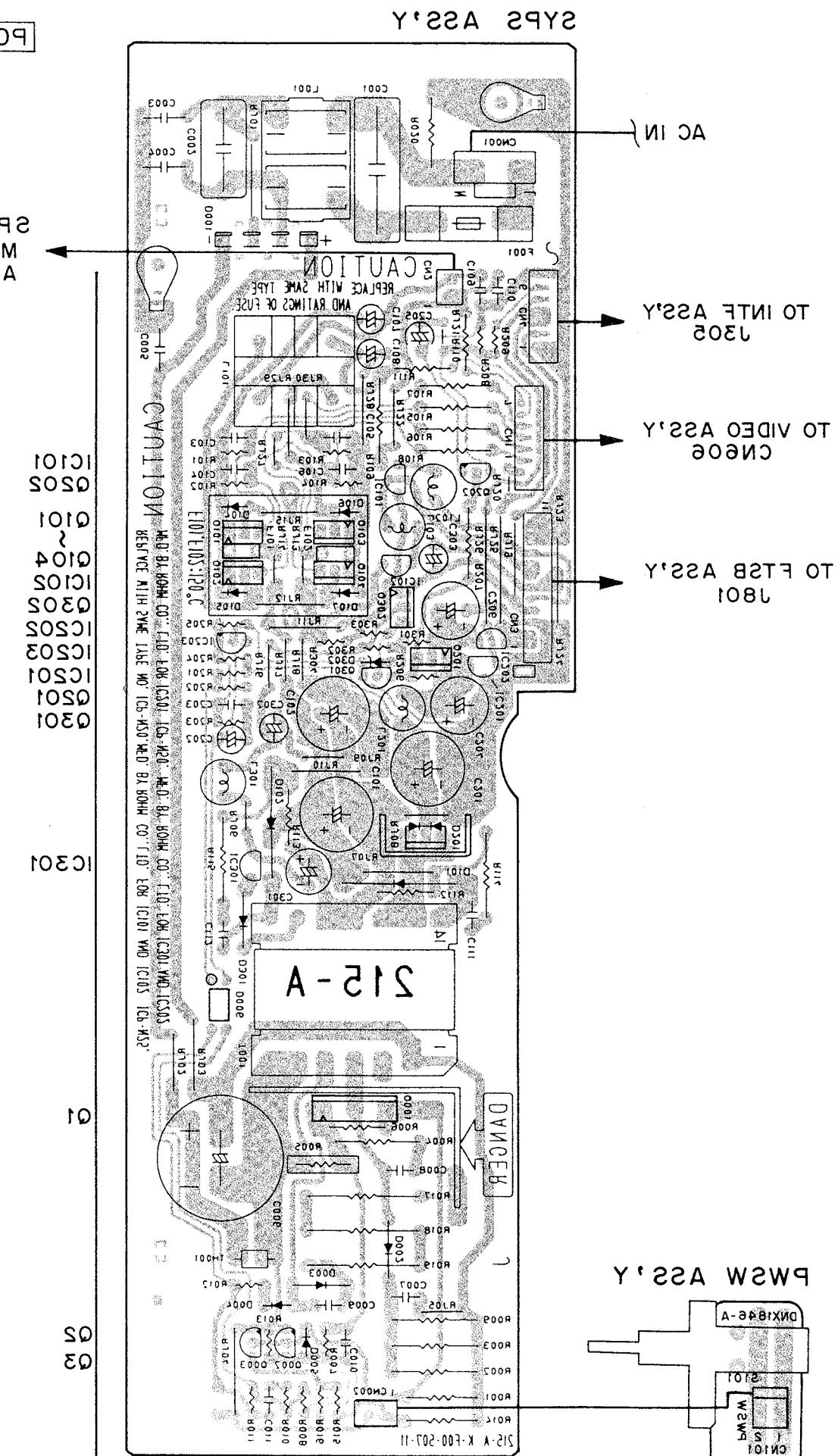
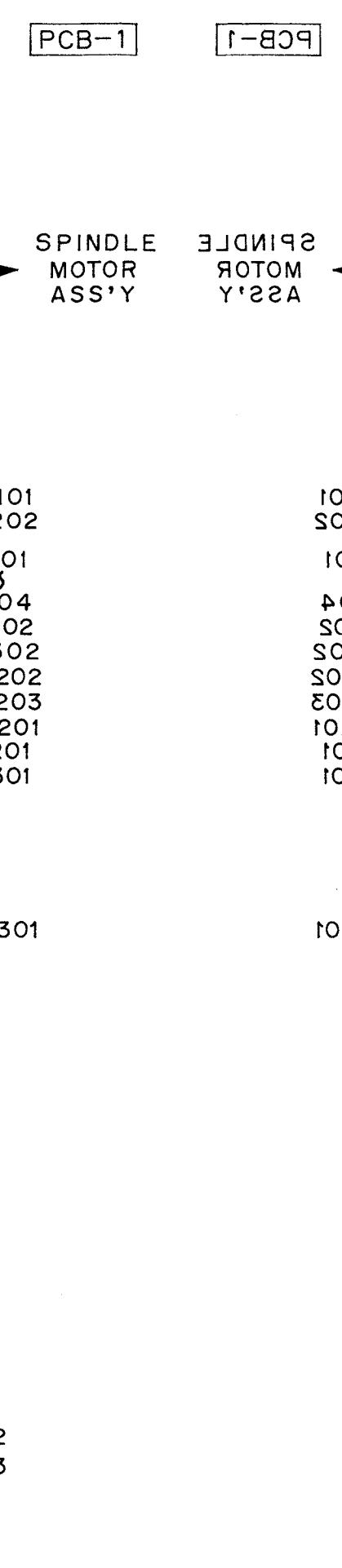
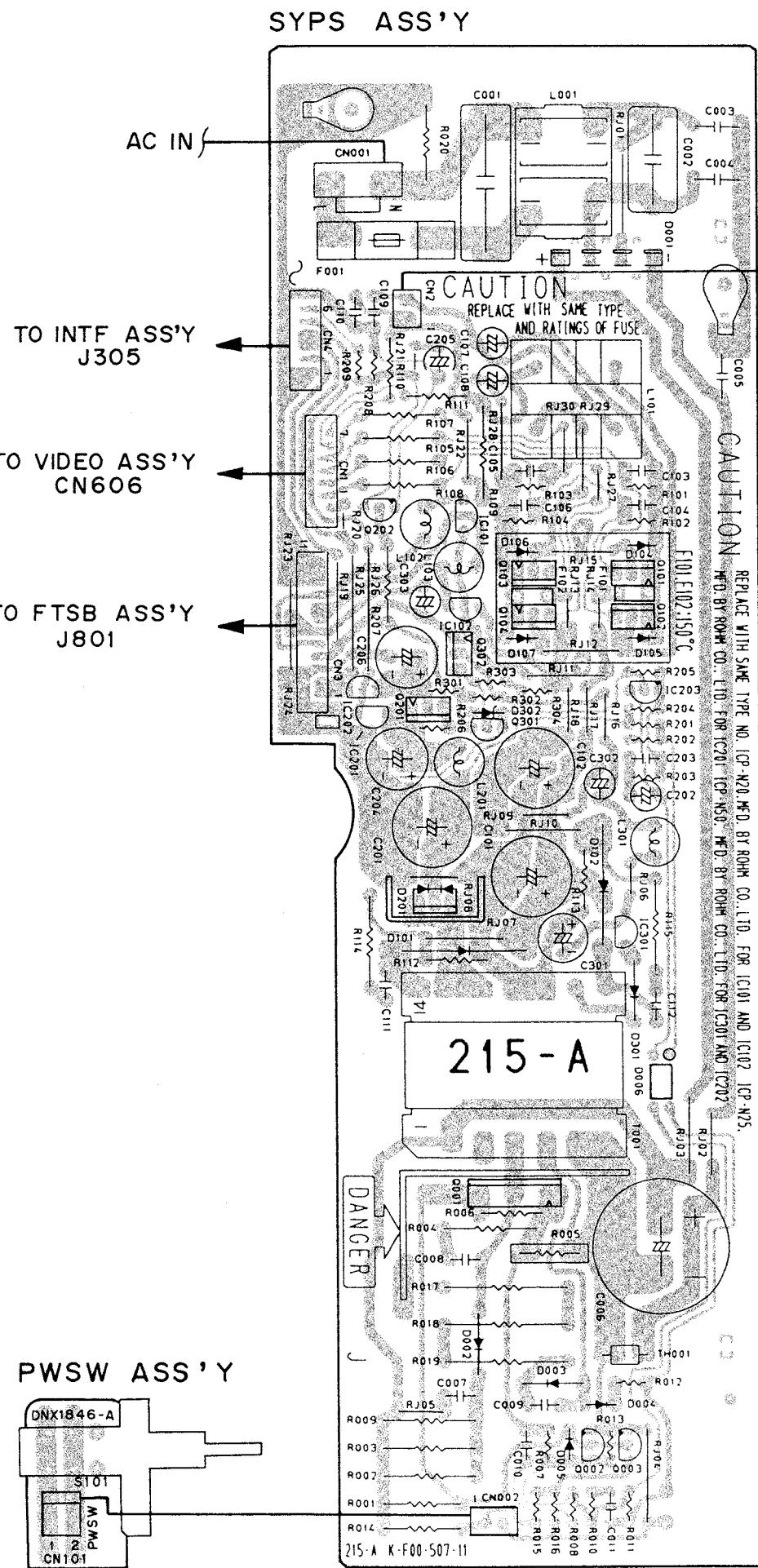
5

6

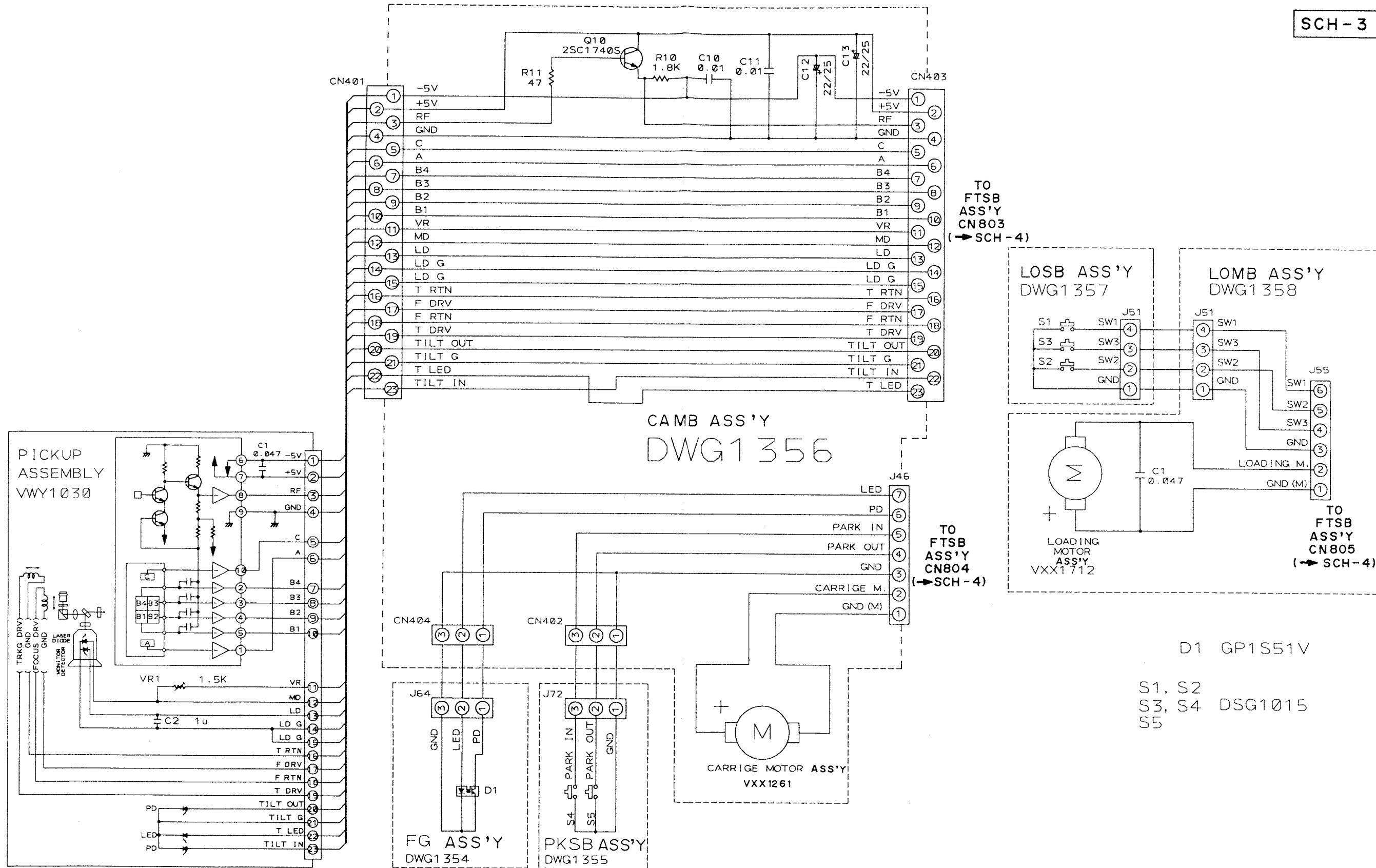
CLD-A100

This PCB connection diagram is viewed from the parts mounted side.

This PCB connection diagram is viewed from the foil side.



5.3 PICKUP, CAMB, FG, PKSB, LOSB, LOMB ASS'



SCH-3

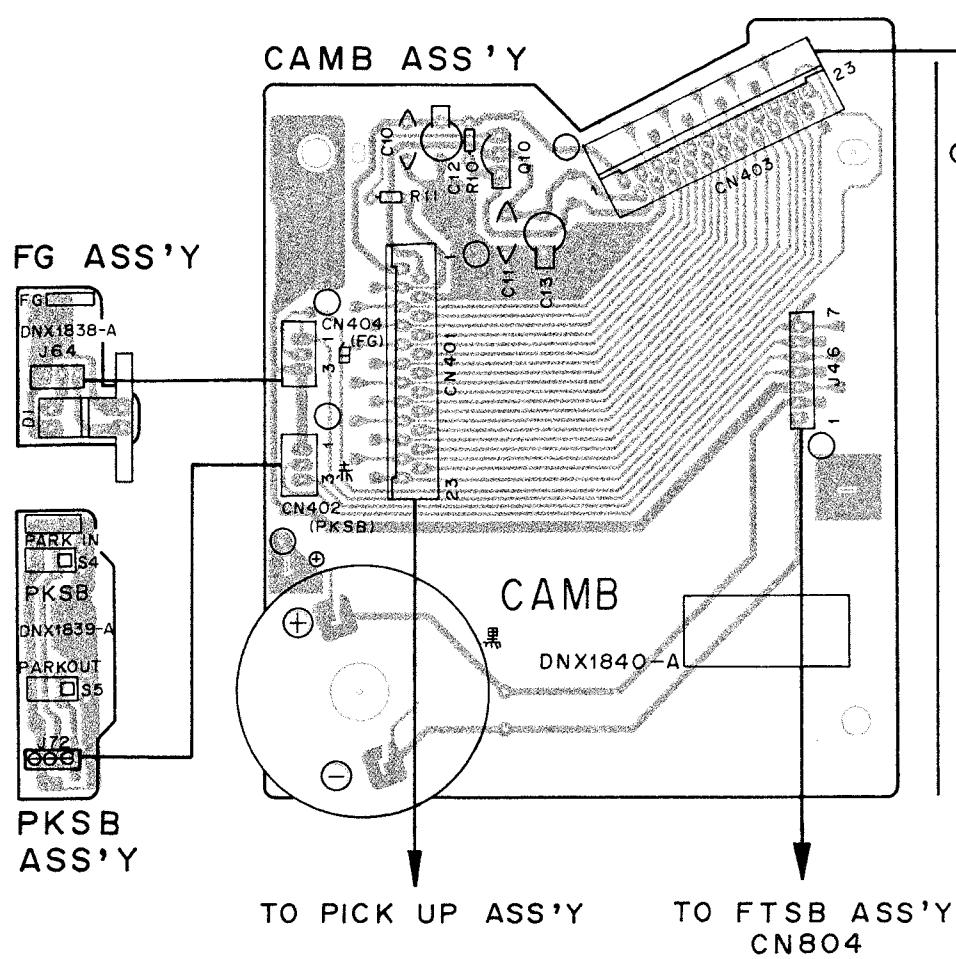
PICKUP ASSY, CAMB ASSY
FG ASSY, PKSB ASSY,
LOSB ASSY, LOMB ASSY

PICKUP ASSY, CAMB ASSY,
FG ASSY, PKSB ASSY,
LOSB ASSY, LOMB ASSY

SCH-3

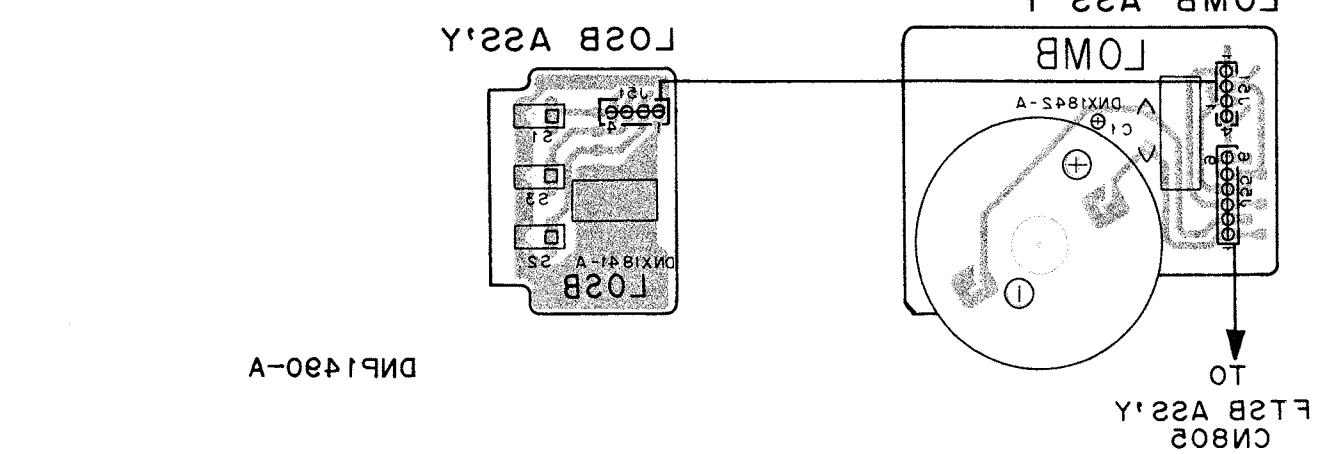
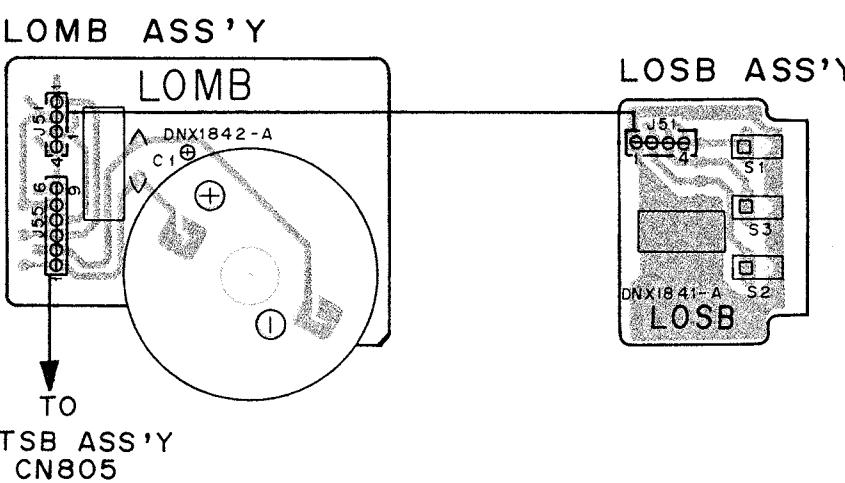
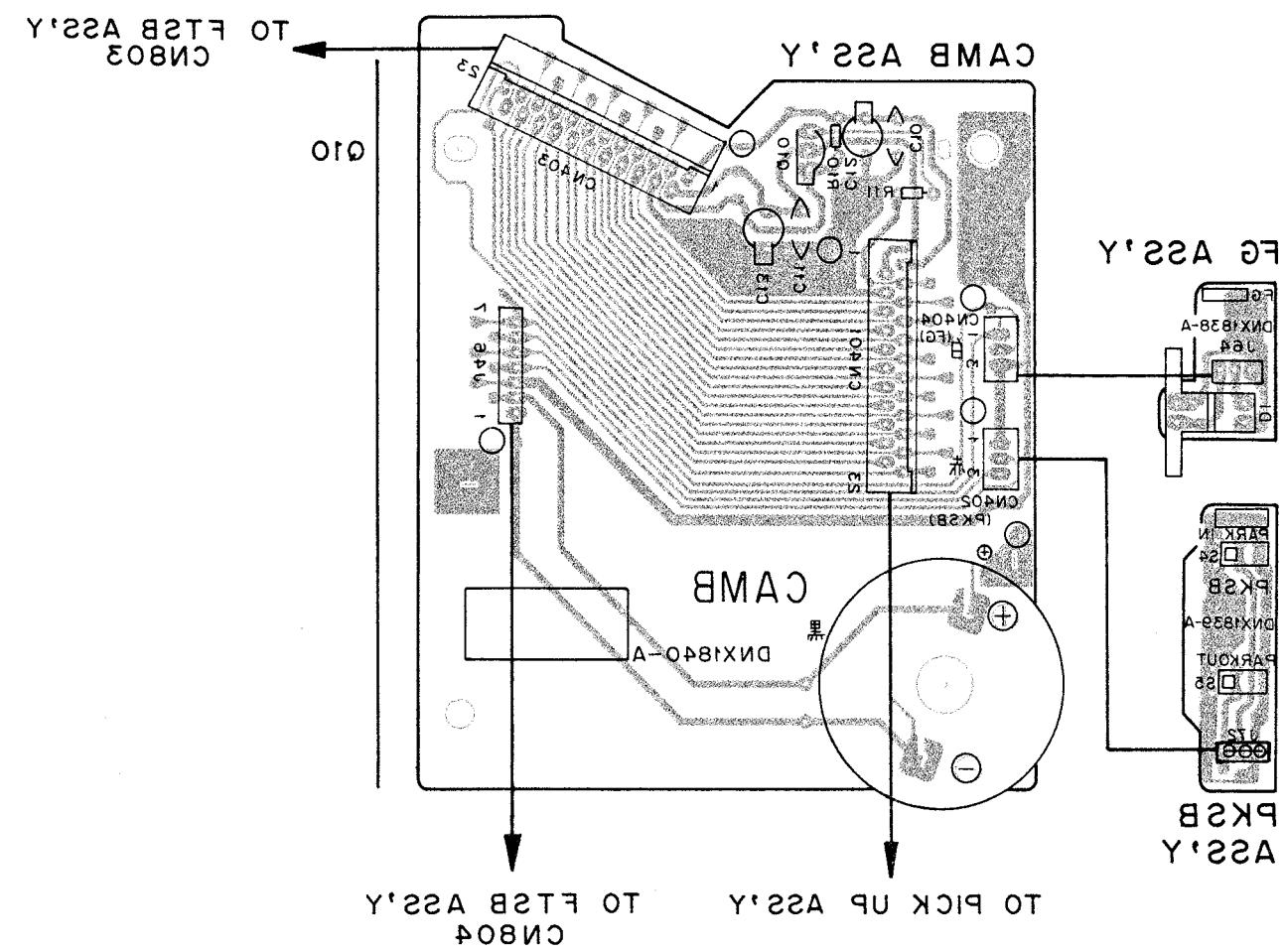
This PCB connection diagram is viewed from the parts mounted side.

PCB-2

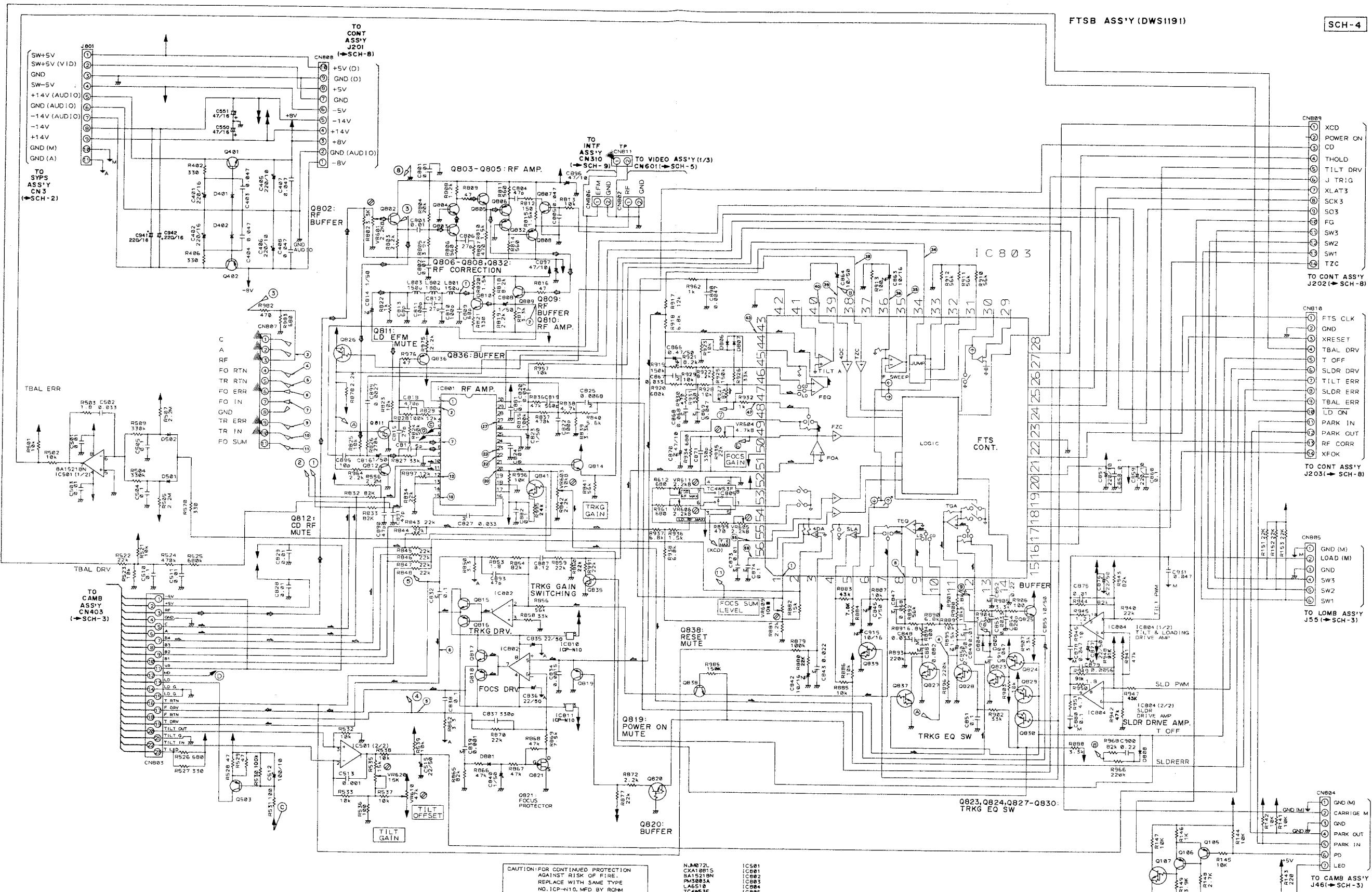


This PCB connection diagram is viewed from the foil side.

PCB-5



5.4 FTSB ASS'Y



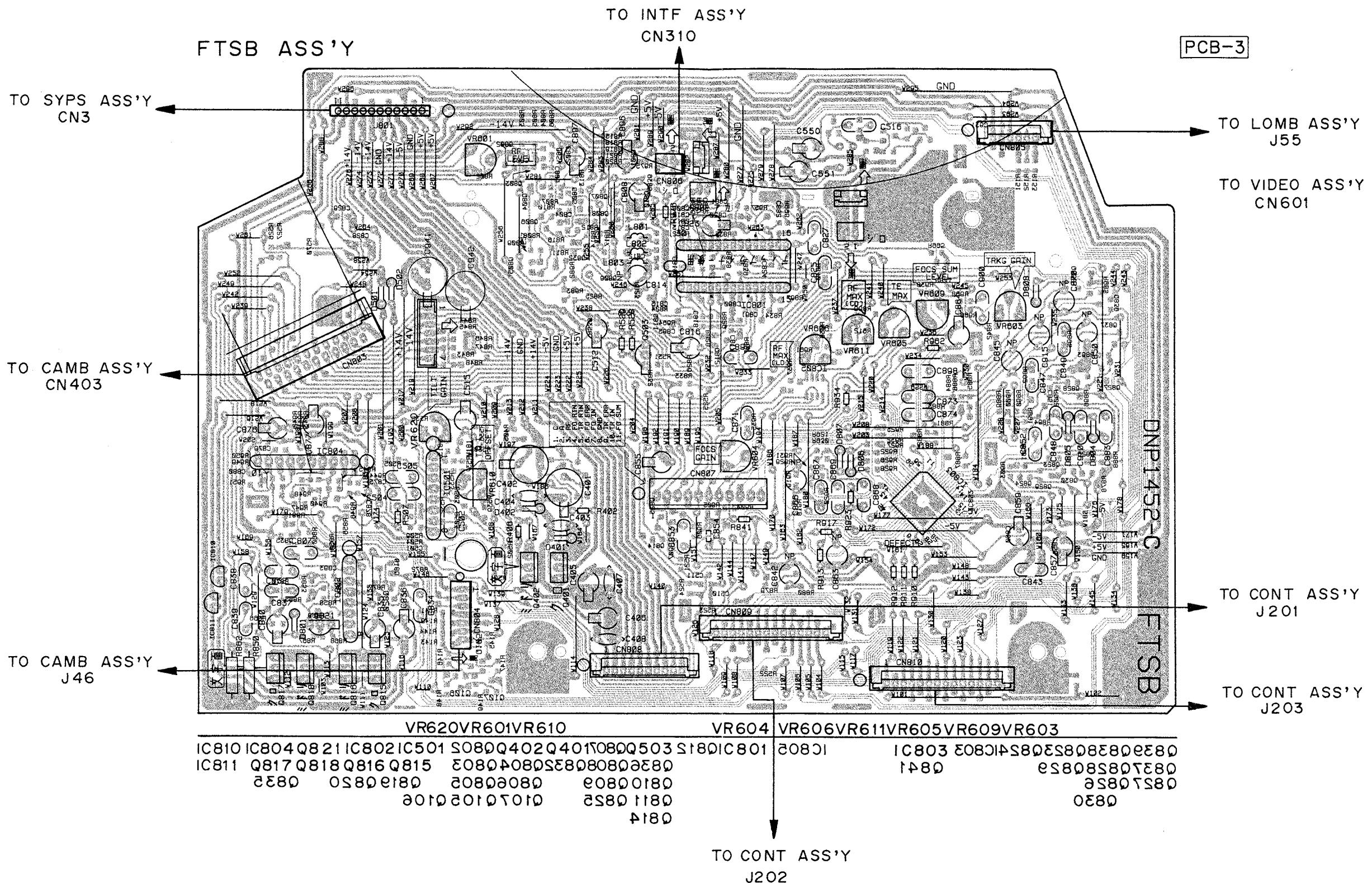
WAVEFORMS AND VOLTAGE TABLES

FTS SECTION

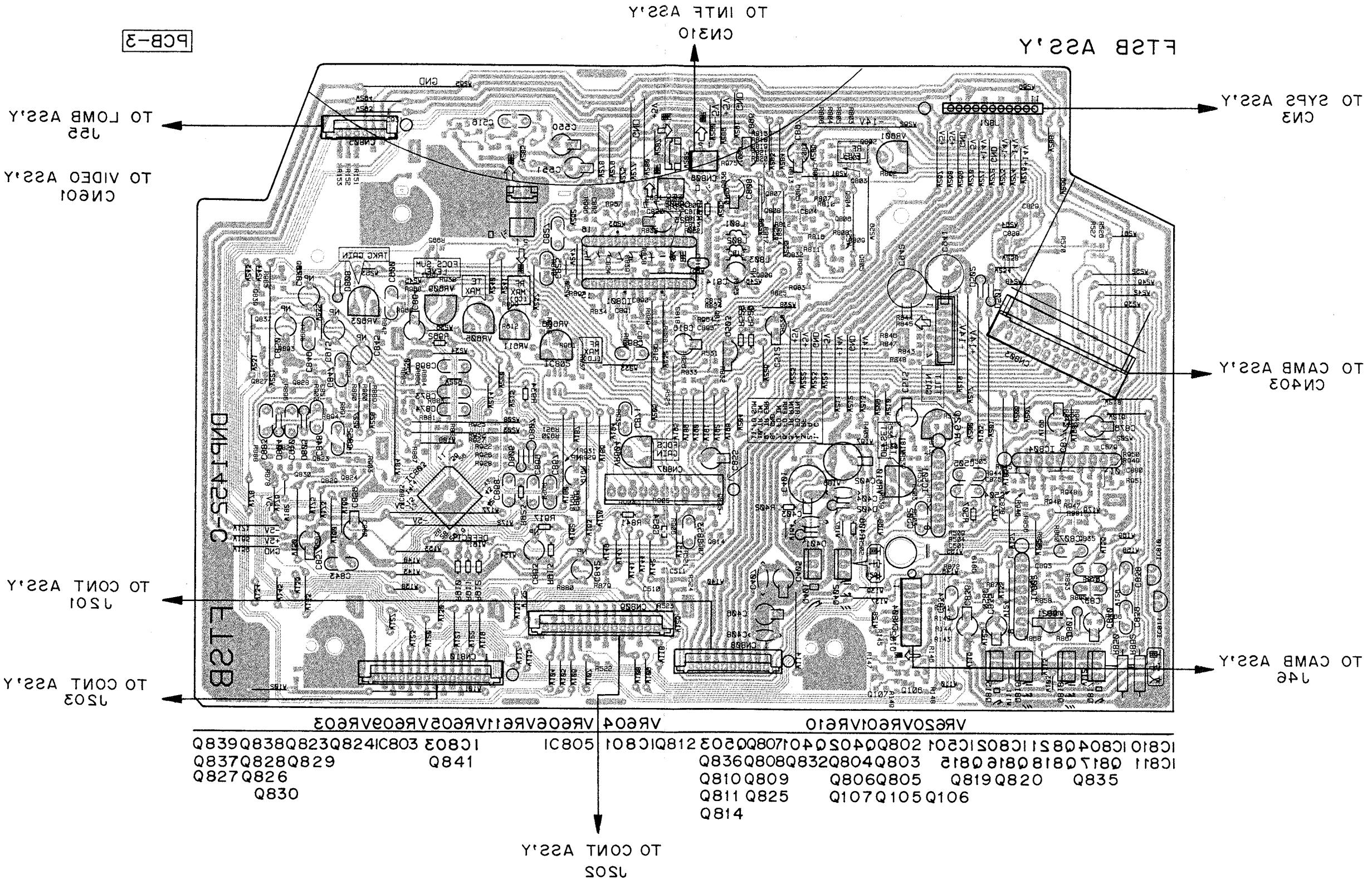
Note : (No.) in the table correspond to the pin number.

IC801 (CXA1081S)	CN807	IC803 (PM3003A)	Other points
(1) 1.5Vp-p	(20) 400mVp-p	(3) 300mVp-p	(1) Q810 Collector 400mVp-p
(2) 1.2Vp-p	(22) 10Vp-p : Still	(4) 5Vp-p	(2) Q809 Emitter 2Vp-p
(7) 40mVp-p	(23) 2Vp-p	(5) 4Vp-p	(4) Q828 Collector 400mVp-p
(12) 200mVp-p	(27) 3Vp-p	(6) 600mVp-p	(5) CN803 18Pin 15Vp-p
(15) 400mVp-p		(7) 1.5Vp-p	(6) CN803 19Pin 20Vp-p
		(9) 1.25Vp-p : Open	(38) 2Vp-p
		(10) 1.25Vp-p	(58) 250mVp-p
		(11) 500mVp-p	

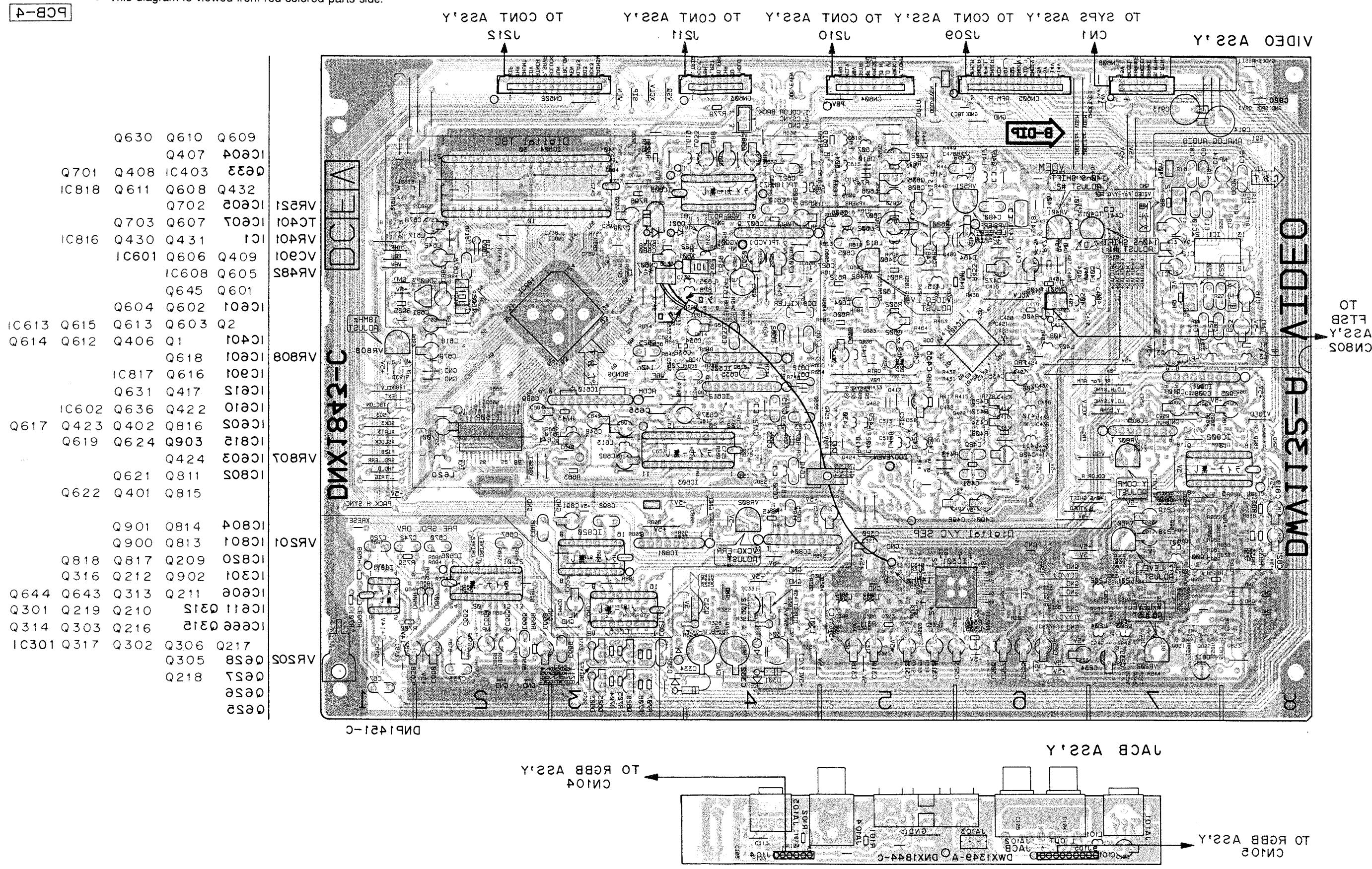
This PCB connection diagram is viewed from the parts mounted side.



This PCB connection diagram is viewed from the foil side.

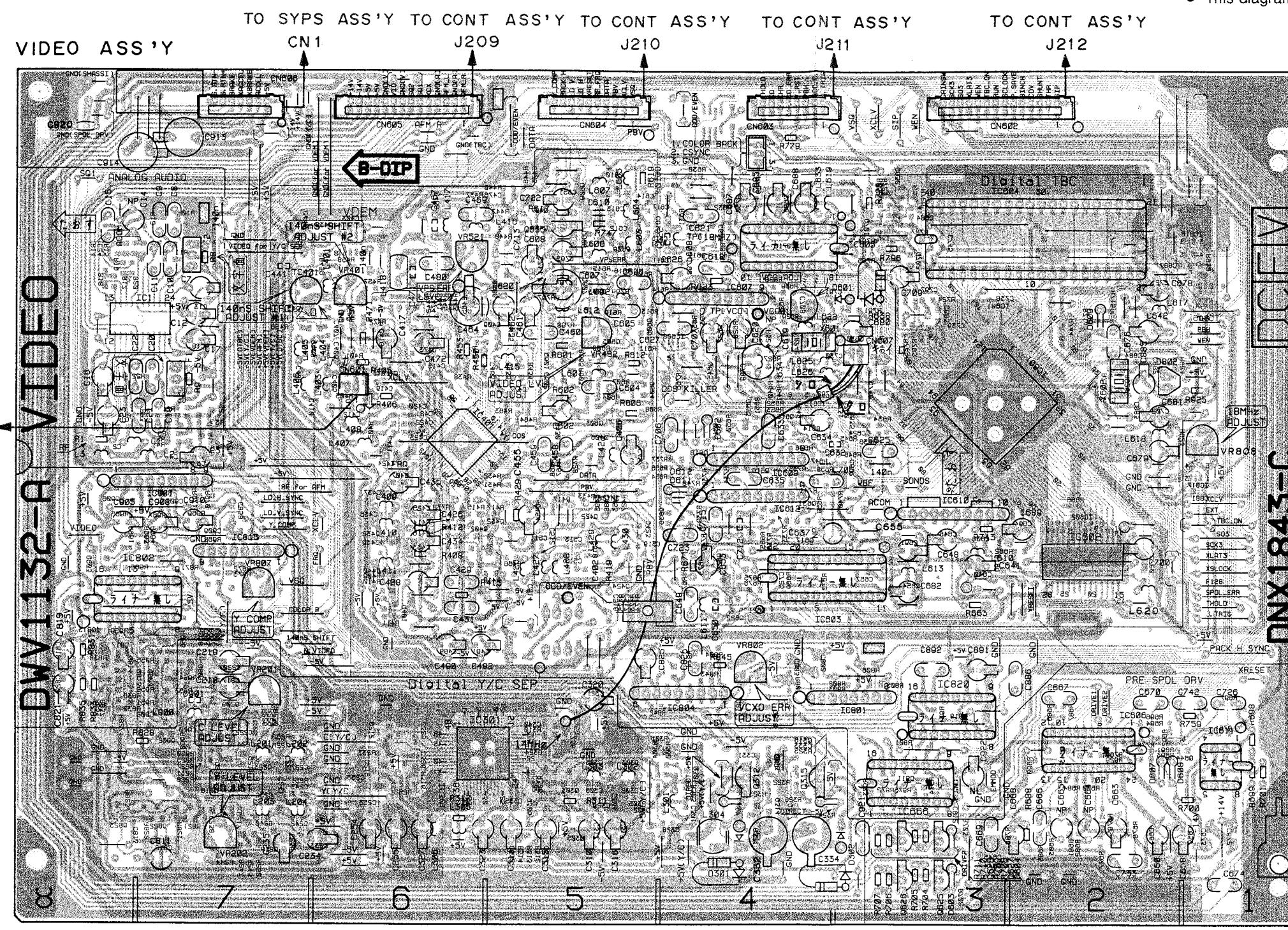


- This PCB is double sided.
 - Foil pattern for each side is identified with pink and gray. Black colored parts are mounted on the pink foil side; red colored parts on the gray foil side.
 - This diagram is viewed from red colored parts side.



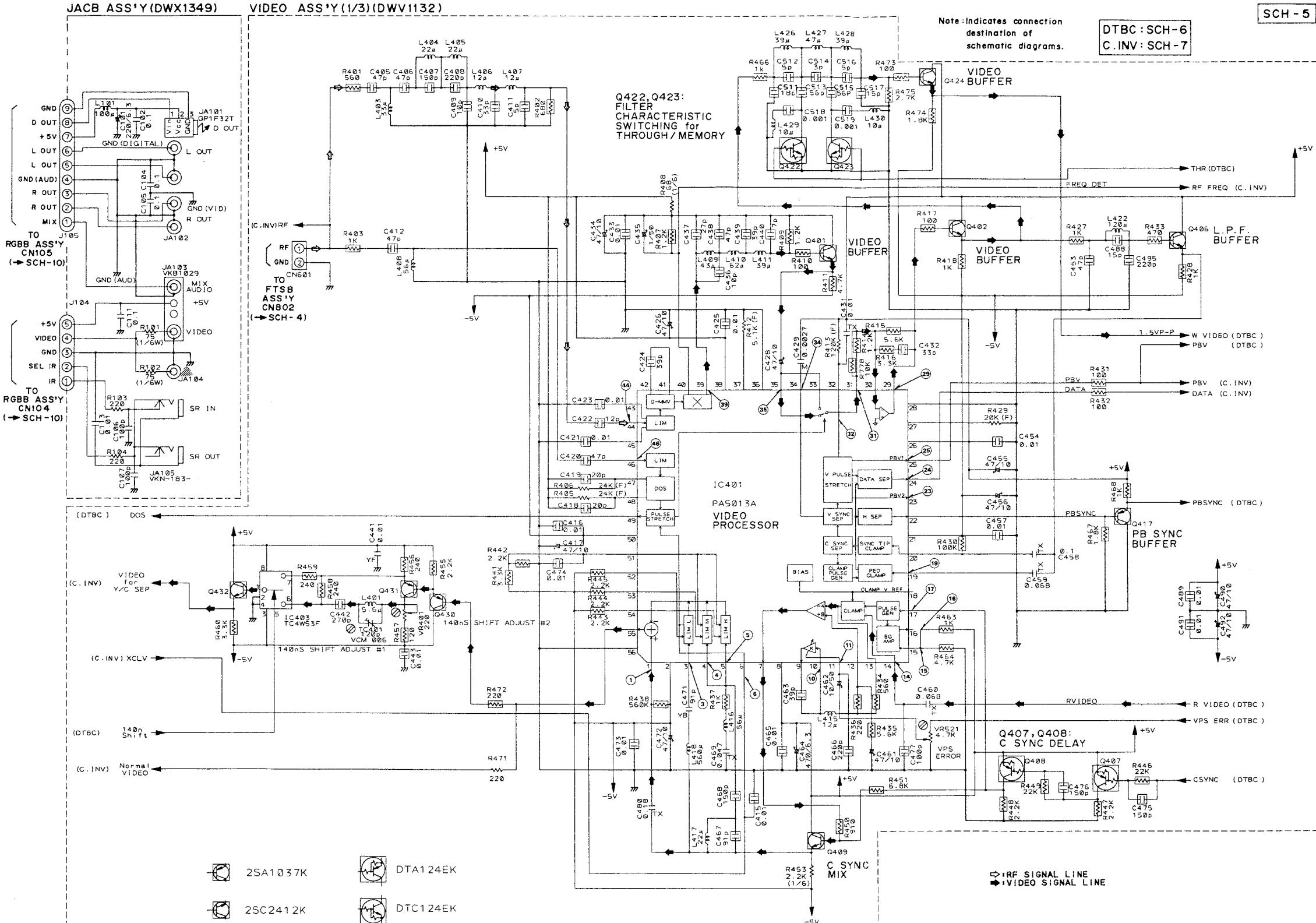
- This PCB is double sided.
- Foil pattern for each side is identified with pink and gray. Black colored parts are mounted on the pink foil side; red colored parts on the gray foil side.
- This diagram is viewed from black colored parts side.

PCB-4



VR521	Q633	IC604	Q602	IC605	Q603	IC607	Q604	IC601	Q605	IC601	Q606	IC601	Q607	IC601	Q608	IC601	Q609	IC601	Q610	IC601	Q611	IC601	Q612	IC601	Q613	IC601	Q614	IC601	Q615	IC601	Q616	IC601	Q617	IC601	Q618	IC601	Q619	IC601	Q620	IC601	Q621	IC601	Q622	IC601	Q623	IC601	Q624	IC601	Q625	IC601	Q626	IC601	Q627	IC601	Q628	IC601	Q629	IC601	Q630	IC601	Q631	IC601	Q632	IC601	Q633	IC601	Q634	IC601	Q635	IC601	Q636	IC601	Q637	IC601	Q638	IC601	Q639	IC601	Q640	IC601	Q641	IC601	Q642	IC601	Q643	IC601	Q644	IC601	Q645	IC601	Q646	IC601	Q647	IC601	Q648	IC601	Q649	IC601	Q650	IC601	Q651	IC601	Q652	IC601	Q653	IC601	Q654	IC601	Q655	IC601	Q656	IC601	Q657	IC601	Q658	IC601	Q659	IC601	Q660	IC601	Q661	IC601	Q662	IC601	Q663	IC601	Q664	IC601	Q665	IC601	Q666	IC601	Q667	IC601	Q668	IC601	Q669	IC601	Q670	IC601	Q671	IC601	Q672	IC601	Q673	IC601	Q674	IC601	Q675	IC601	Q676	IC601	Q677	IC601	Q678	IC601	Q679	IC601	Q680	IC601	Q681	IC601	Q682	IC601	Q683	IC601	Q684	IC601	Q685	IC601	Q686	IC601	Q687	IC601	Q688	IC601	Q689	IC601	Q690	IC601	Q691	IC601	Q692	IC601	Q693	IC601	Q694	IC601	Q695	IC601	Q696	IC601	Q697	IC601	Q698	IC601	Q699	IC601	Q700	IC601	Q701	IC601	Q702	IC601	Q703	IC601	Q704	IC601	Q705	IC601	Q706	IC601	Q707	IC601	Q708	IC601	Q709	IC601	Q710	IC601	Q711	IC601	Q712	IC601	Q713	IC601	Q714	IC601	Q715	IC601	Q716	IC601	Q717	IC601	Q718	IC601	Q719	IC601	Q720	IC601	Q721	IC601	Q722	IC601	Q723	IC601	Q724	IC601	Q725	IC601	Q726	IC601	Q727	IC601	Q728	IC601	Q729	IC601	Q730	IC601	Q731	IC601	Q732	IC601	Q733	IC601	Q734	IC601	Q735	IC601	Q736	IC601	Q737	IC601	Q738	IC601	Q739	IC601	Q740	IC601	Q741	IC601	Q742	IC601	Q743	IC601	Q744	IC601	Q745	IC601	Q746	IC601	Q747	IC601	Q748	IC601	Q749	IC601	Q750	IC601	Q751	IC601	Q752	IC601	Q753	IC601	Q754	IC601	Q755	IC601	Q756	IC601	Q757	IC601	Q758	IC601	Q759	IC601	Q760	IC601	Q761	IC601	Q762	IC601	Q763	IC601	Q764	IC601	Q765	IC601	Q766	IC601	Q767	IC601	Q768	IC601	Q769	IC601	Q770	IC601	Q771	IC601	Q772	IC601	Q773	IC601	Q774	IC601	Q775	IC601	Q776	IC601	Q777	IC601	Q778	IC601	Q779	IC601	Q780	IC601	Q781	IC601	Q782	IC601	Q783	IC601	Q784	IC601	Q785	IC601	Q786	IC601	Q787	IC601	Q788	IC601	Q789	IC601	Q790	IC601	Q791	IC601	Q792	IC601	Q793	IC601	Q794	IC601	Q795	IC601	Q796	IC601	Q797	IC601	Q798	IC601	Q799	IC601	Q800	IC601	Q801	IC601	Q802	IC601	Q803	IC601	Q804	IC601	Q805	IC601	Q806	IC601	Q807	IC601	Q808	IC601	Q809	IC601	Q810	IC601	Q811	IC601	Q812	IC601	Q813	IC601	Q814	IC601	Q815	IC601	Q816	IC601	Q817	IC601	Q818	IC601	Q819	IC601	Q820	IC601	Q821	IC601	Q822	IC601	Q823	IC601	Q824	IC601	Q825	IC601	Q826	IC601	Q827	IC601	Q828	IC601	Q829	IC601	Q830	IC601	Q831	IC601	Q832	IC601	Q833	IC601	Q834	IC601	Q835	IC601	Q836	IC601	Q837	IC601	Q838	IC601	Q839	IC601	Q840	IC601	Q841	IC601	Q842	IC601	Q843	IC601	Q844	IC601	Q845	IC601	Q846	IC601	Q847	IC601	Q848	IC601	Q849	IC601	Q850	IC601	Q851	IC601	Q852	IC601	Q853	IC601	Q854	IC601	Q855	IC601	Q856	IC601	Q857	IC601	Q858	IC601	Q859	IC601	Q860	IC601	Q861	IC601	Q862	IC601	Q863	IC601	Q864	IC601	Q865	IC601	Q866	IC601	Q867	IC601	Q868	IC601	Q869	IC601	Q870	IC601	Q871	IC601	Q872	IC601	Q873	IC601	Q874	IC601	Q875	IC601	Q876	IC601	Q877	IC601	Q878	IC601	Q879	IC601	Q880	IC601	Q881	IC601	Q882	IC601	Q883	IC601	Q884	IC601	Q885	IC601	Q886	IC601	Q887	IC601	Q888	IC601	Q889	IC601	Q890	IC601	Q891	IC601	Q892	IC601	Q893	IC601	Q894	IC601	Q895	IC601	Q896	IC601	Q897	IC601	Q898	IC601	Q899	IC601	Q900	IC601	Q901	IC601	Q902	IC601	Q903	IC601	Q904	IC601	Q905	IC601	Q906	IC601	Q907	IC601	Q908	IC601	Q909	IC601	Q910	IC601	Q911	IC601	Q912	IC601	Q913	IC601	Q914	IC601	Q915	IC601	Q916	IC601	Q917	IC601	Q918	IC601	Q919	IC601	Q920	IC601	Q921	IC601	Q922	IC601	Q923	IC601	Q924	IC601	Q925	IC601	Q926	IC601	Q927	IC601	Q928	IC601	Q929	IC601	Q930	IC601	Q931	IC601	Q932	IC601	Q933	IC601	Q934	IC601	Q935	IC601	Q936	IC601	Q937	IC601	Q938	IC601	Q939	IC601	Q940	IC601	Q941	IC601	Q942	IC601	Q943	IC601	Q944	IC601	Q945	IC601	Q946	IC601	Q947	IC601	Q948	IC601	Q949	IC601	Q950	IC601	Q951	IC601	Q952	IC601	Q953	IC601	Q954	IC601	Q955	IC601	Q956	IC601	Q957	IC601	Q958	IC601	Q959	IC601	Q960	IC601	Q961	IC601	Q962	IC601	Q963	IC601	Q964	IC601	Q965	IC601	Q966	IC601	Q967	IC601	Q968	IC601	Q969	IC601	Q970	IC601	Q971	IC601	Q972	IC601	Q973	IC601	Q974	IC601	Q975	IC601	Q976	IC601	Q977	IC601	Q978	IC601	Q979	IC601	Q980	IC601	Q981	IC601	Q982	IC601	Q983	IC601	Q984	IC601	Q985	IC601	Q986	IC601	Q987	IC601	Q988	IC601	Q989	IC601</td

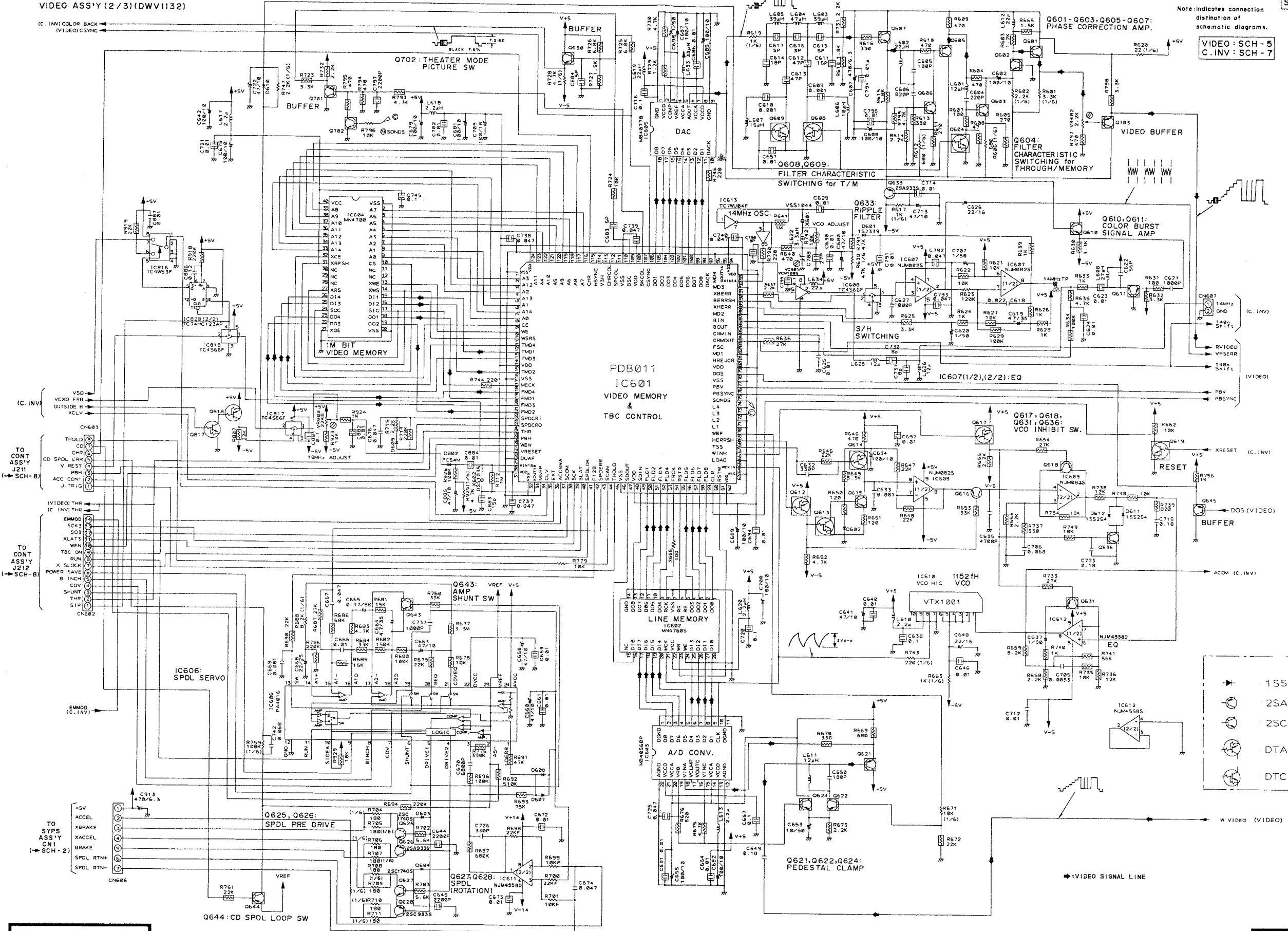
5.5 VIDEO ASS'Y (1/3) (VIDEO DEMODULATION), JACB ASS'Y

**SCH-5**VIDEO ASSY (1/3)
JACB ASSYVIDEO ASSY (1/3)
JACB ASSY**SCH-5**

5.6 VIDEO ASS'Y (2/3) (DIGITAL VIDEO)

VIDEO ASS'Y (2 / 3) (DWV1132)

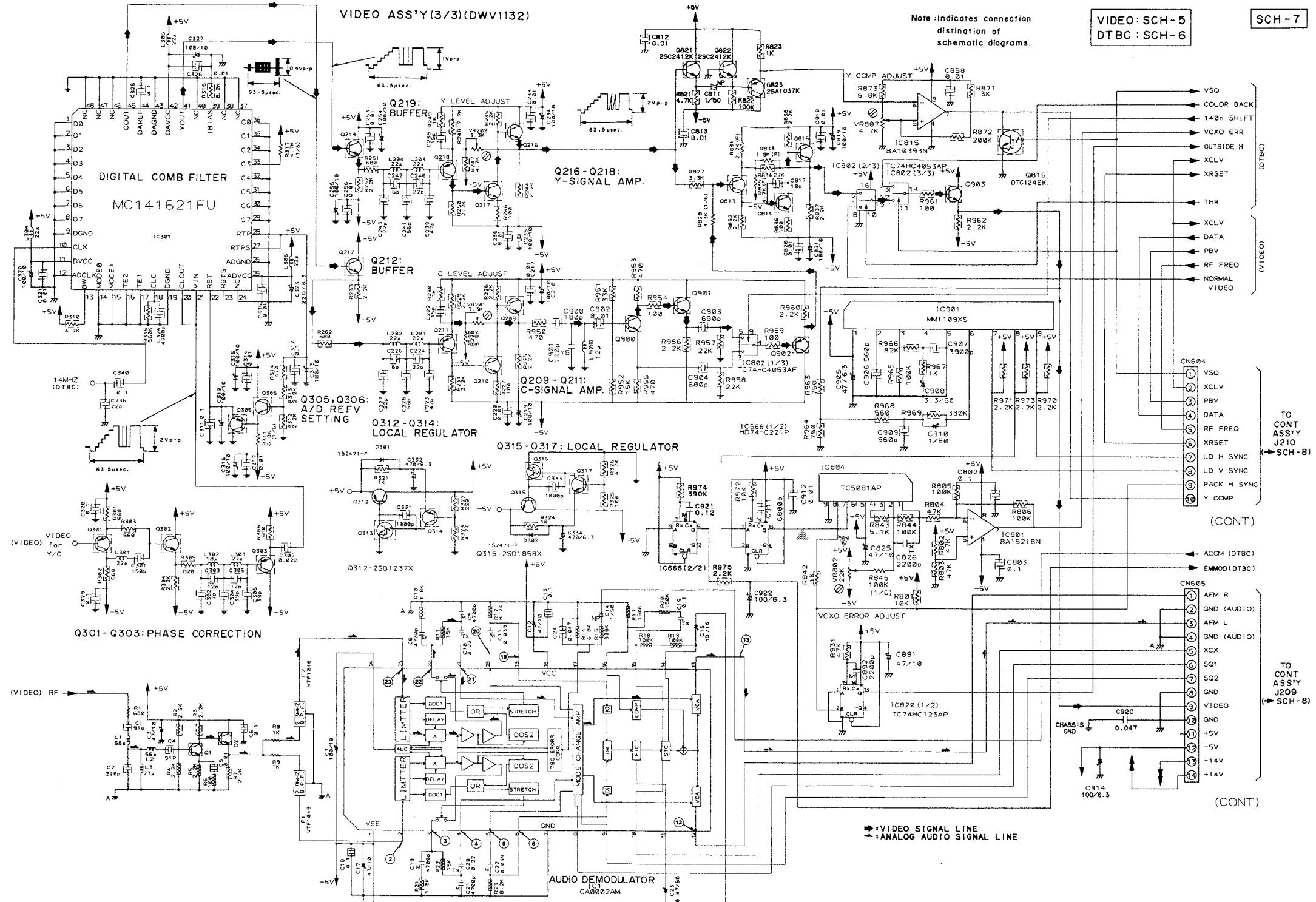
(C.1 INV) COLOR BACK



VIDEO ASSY (2/3)

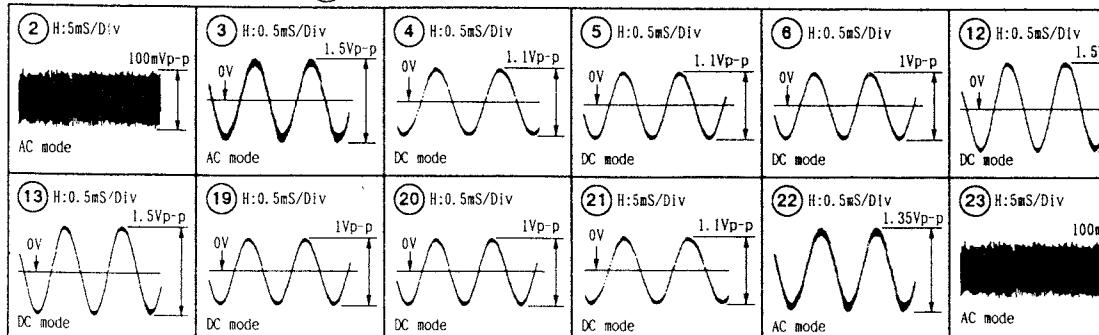
VIDEO ASSY (2/3)

5.7 VIDEO ASS'Y (3/3) (Y/C SEPARATION AND ANALOG AUDIO)



Note: These waveforms are at the PLAY mode.

- IC1 (CA0002AM) Note: No. in the table correspond to the pin number.



*: Refer to waveforms

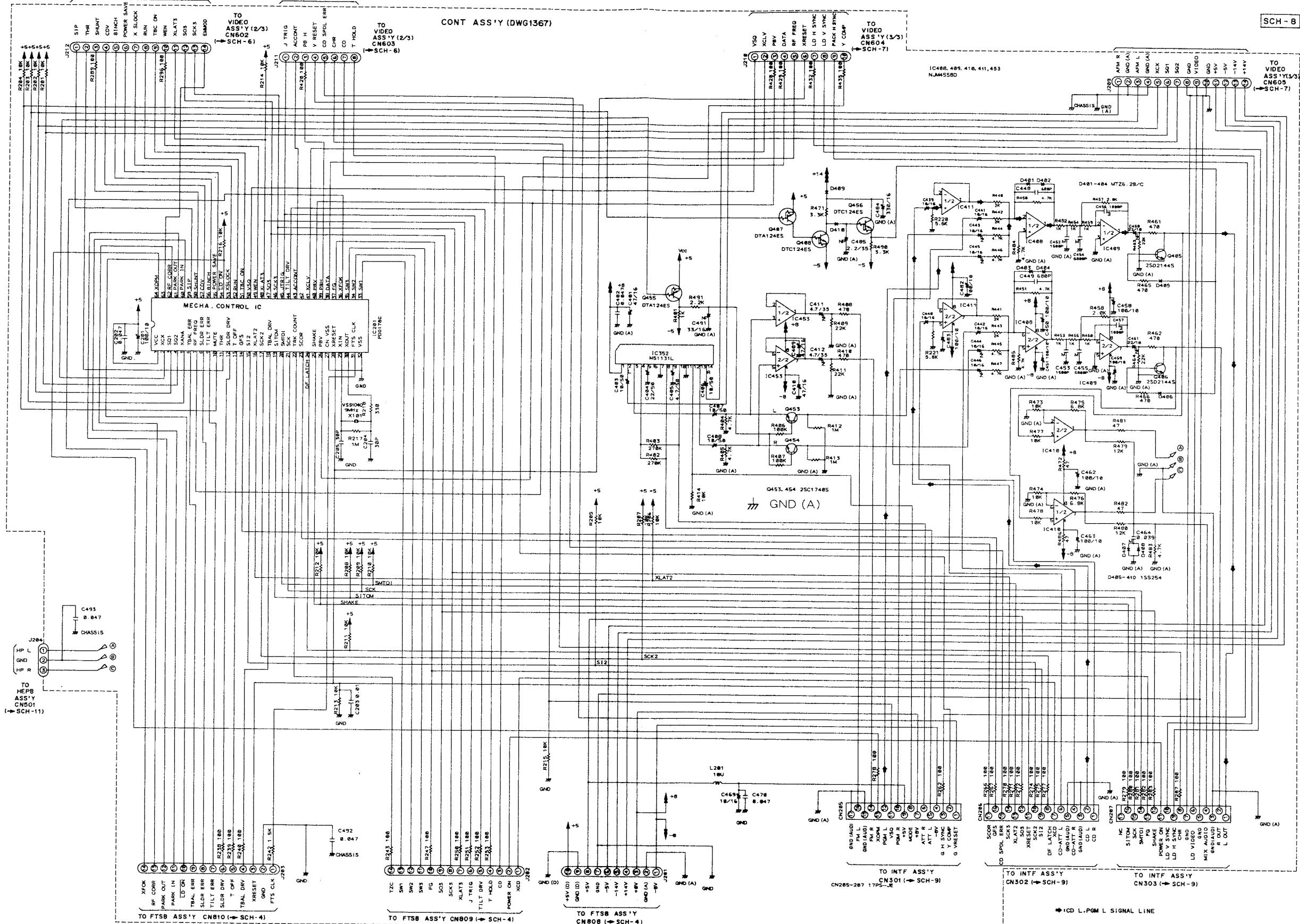
SCH-7

VIDEO ASSY (3/3)

SCH-7

VIDEO ASSY (3/3)

5.8 CONT ASS'Y (CONTROL)



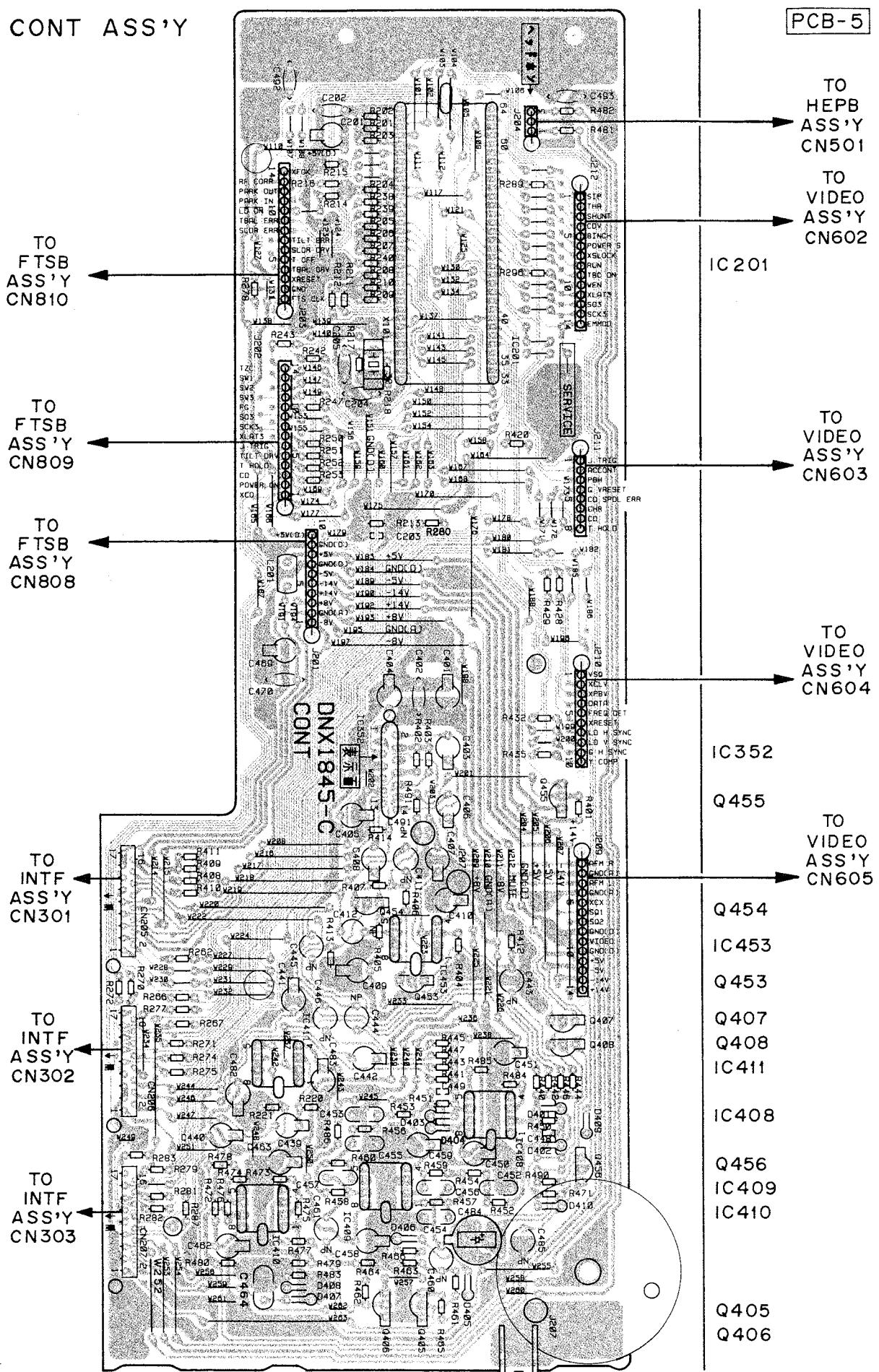
CONT ASSY

SCH-8

CONT ASSY

SCH-8

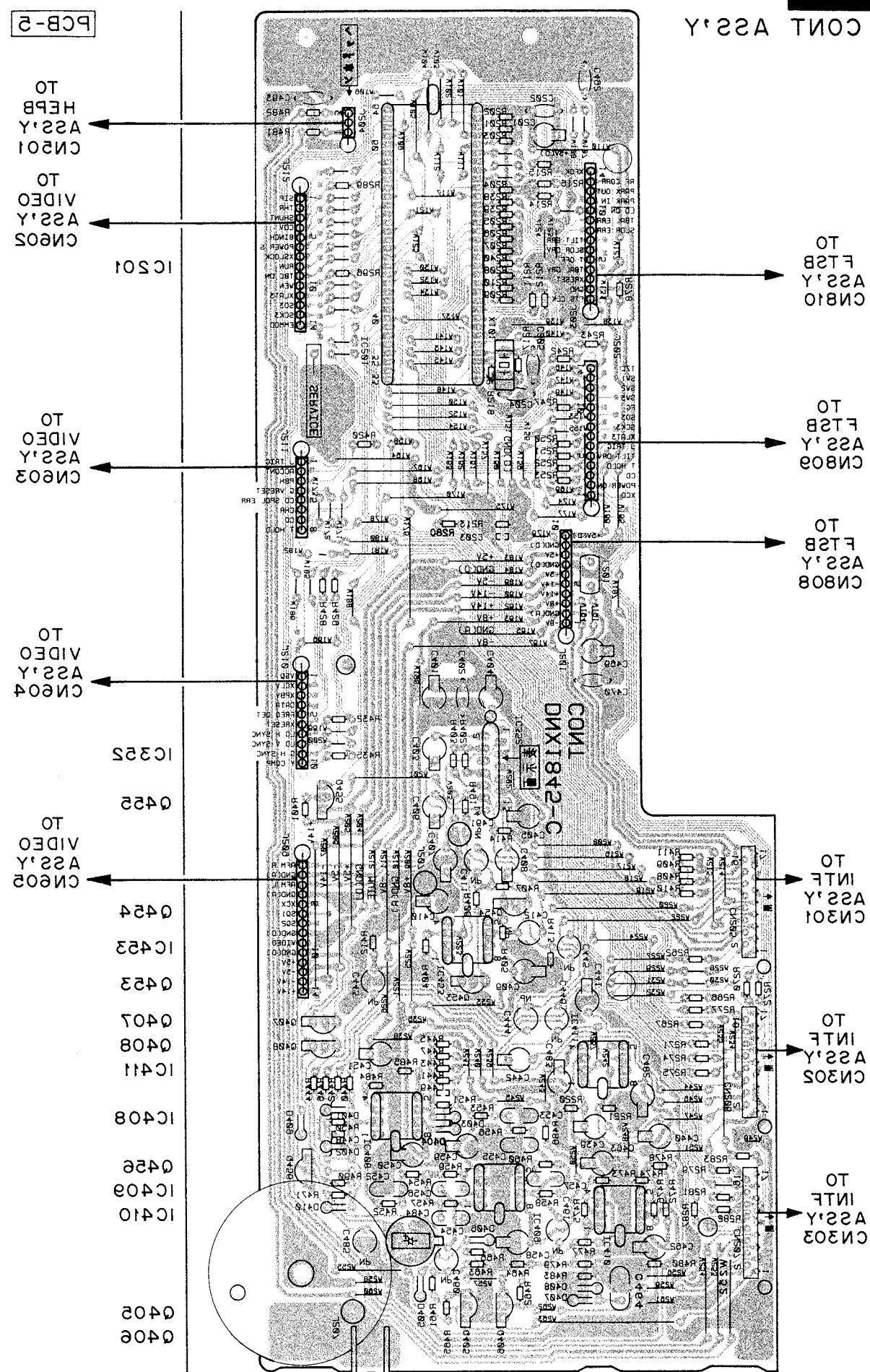
CONT ASS'Y



PCB-5

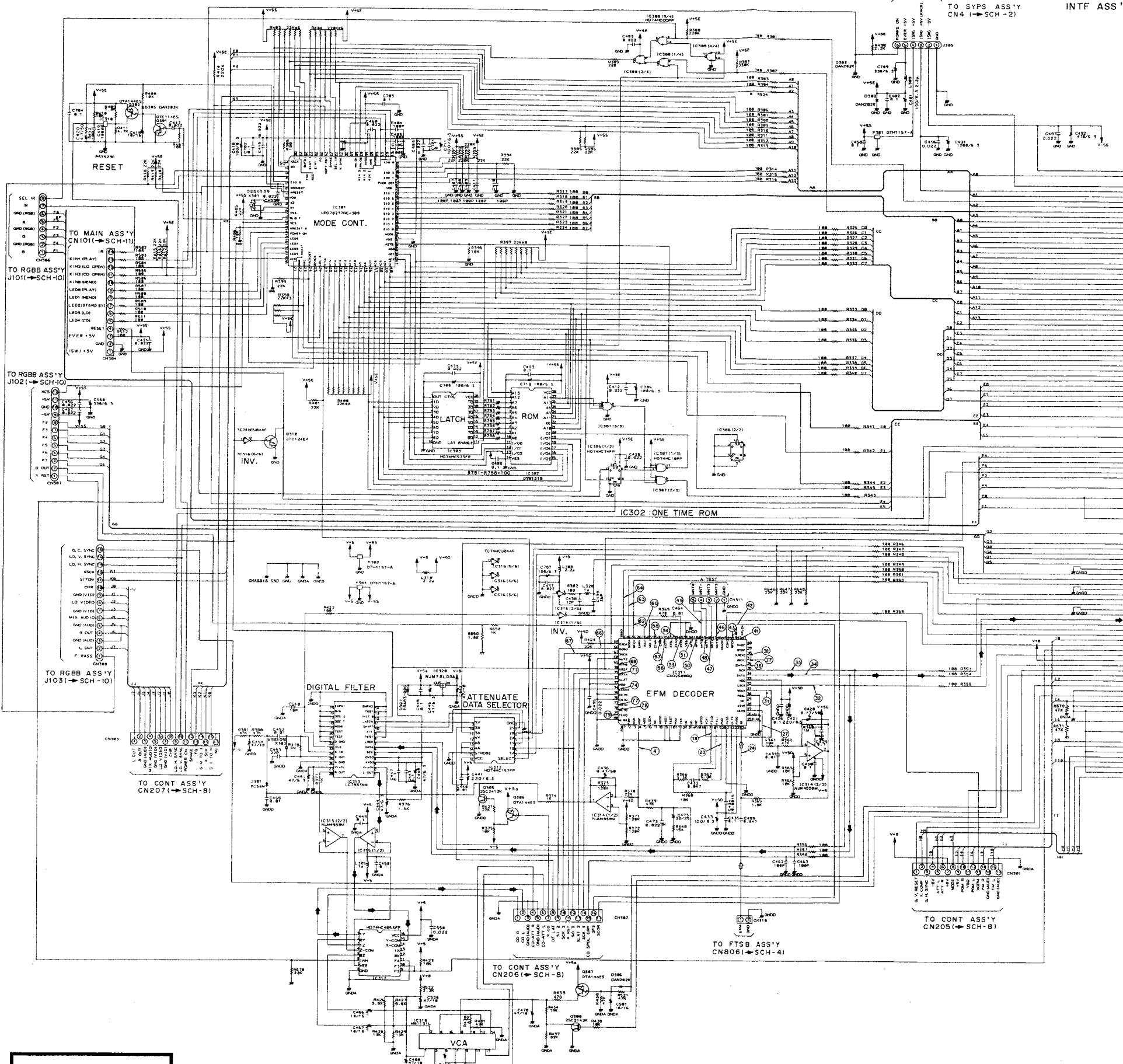
5-829

CONT ASS'Y



This PCB connection diagram is viewed from the foil side. DNP1488-C

5.9 INTF ASS'Y (INTERFACE)



SCH-9

INTF ASSY

INTF ASSY

SCH-9

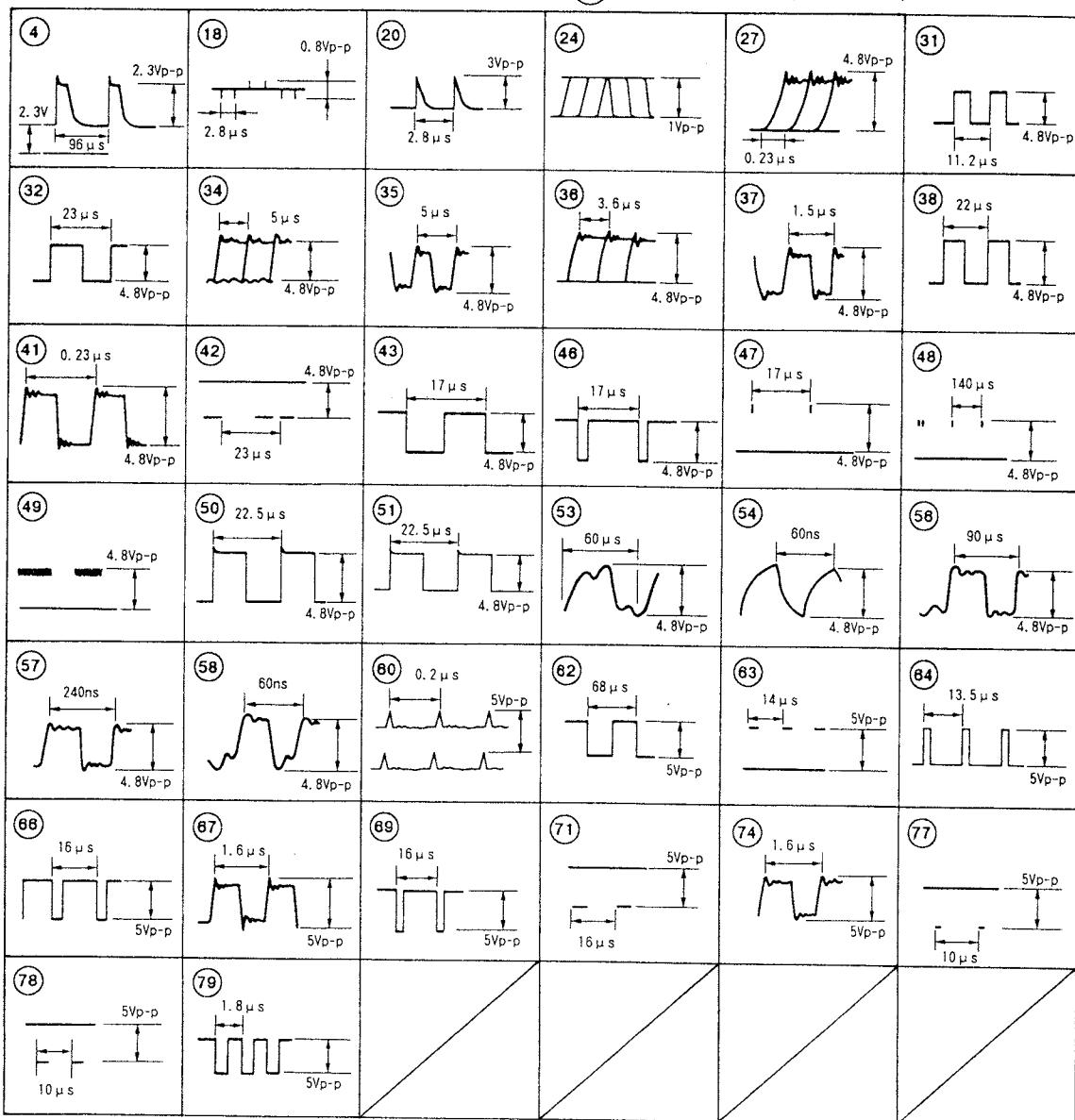
	C	D	A	B
1	(SW) -5V	(SW) +5V	E10 8	GND (D)
2	(SW) +5V	SEL IR IN	S OUT	X SCK
3	SEL IR OUT	E10 7	TXD	EINT 2
4	E10 6	E10 5	S IN	RXD
5	E10 4	E10 3	EINT 1	V SYNC
6	E10 2	E10 1	EDA 1	EDA 0
7	E10 0	AD 0	EAD 2	EAD 1
8	AD 1	AD 2	PACK DEF	A8
9	AD 3	AD 4	A9	A10
10	AD 5	AD 6	A11	A12
11	AD 7	ASTB	A13	A14
12	X WAIT	XRD	A15	EXO 3
13	XWR	RESET IN	EXO 2	EXO 1
14	RESET OUT	LD H SYNC	NC	LD V SYNC
15	GND (RGB)	R	X RST	ROMCS
16	GND (RGB)	G	NC	NC
17	GND (RGB)	B	NC	NC
18	GND (RGB)	F0	NC	F4
19	F1	F2	FS	F6
20	F3	GND (D)	F7	LATCH
21	MT CLK	GND (D)	SHIFT	ATT
22	BCK	GND (D)	EXCK	SB50
23	DATA	LRCK	SCOR	WFCK
24	-8V	CD SW	C2PO	CD FADE
25	+8V	VSQ	CD SMT	G. C. SYNC
26	+5V	GND (AUD)	G. V. RESET	G. H. SYNC
27	PGM R	GND (AUD)	GND (AUD)	NC
28	PGM L	GND (AUD)	NC	NC
29	FM R	GND (AUD)	Y. COMP	ATT L
30	FM L	GND (AUD)	ATT R	MODE

◆ :RF(EFM) SIGNAL LINE
■ :DIGITAL AUDIO (L) SIGNAL LINE

► :DIGITAL AUDIO (L) SIGNAL LINE

IC311 (CXD2500BQ)

Note : (No.) in the table correspond to the pin number.



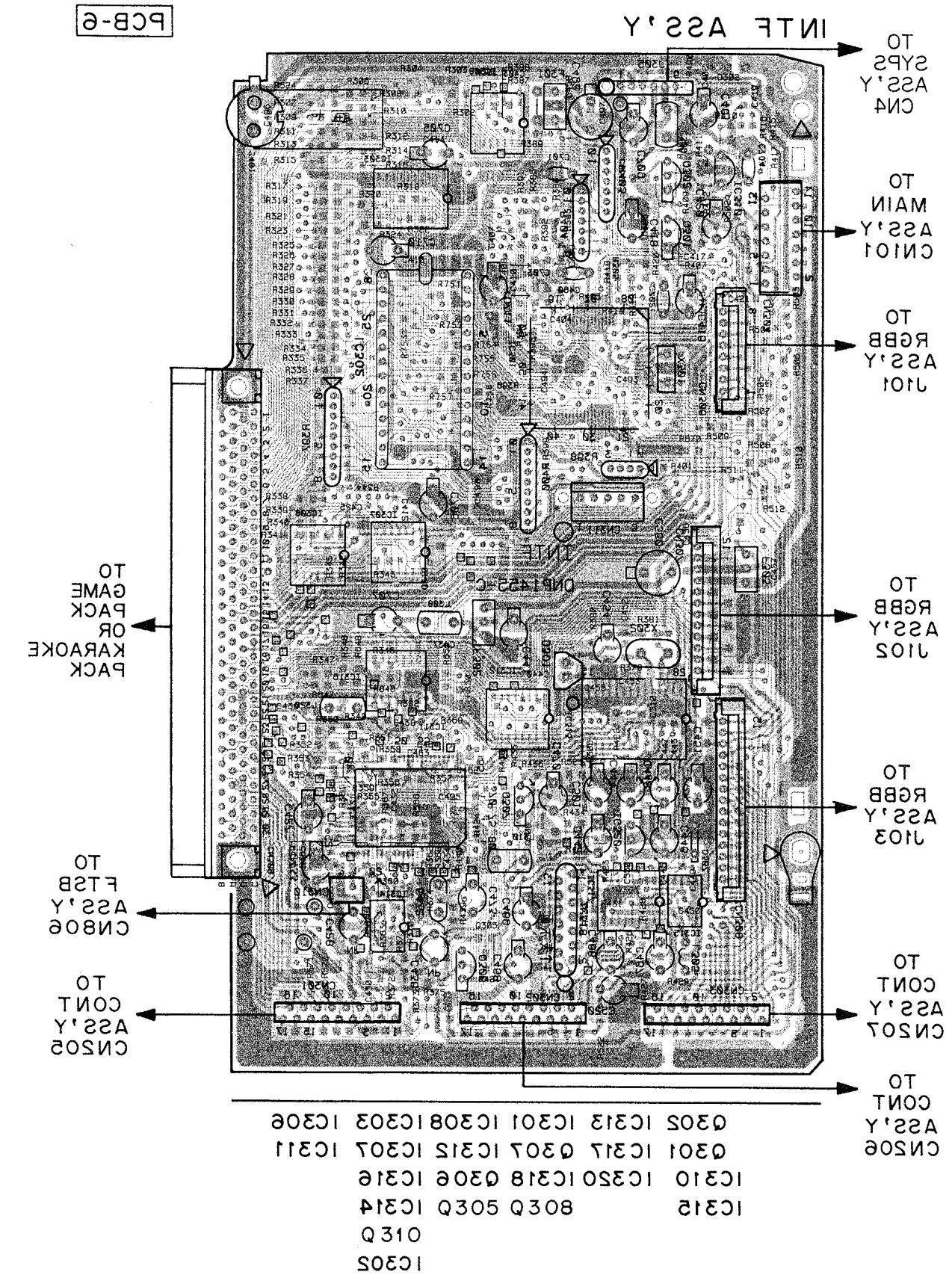
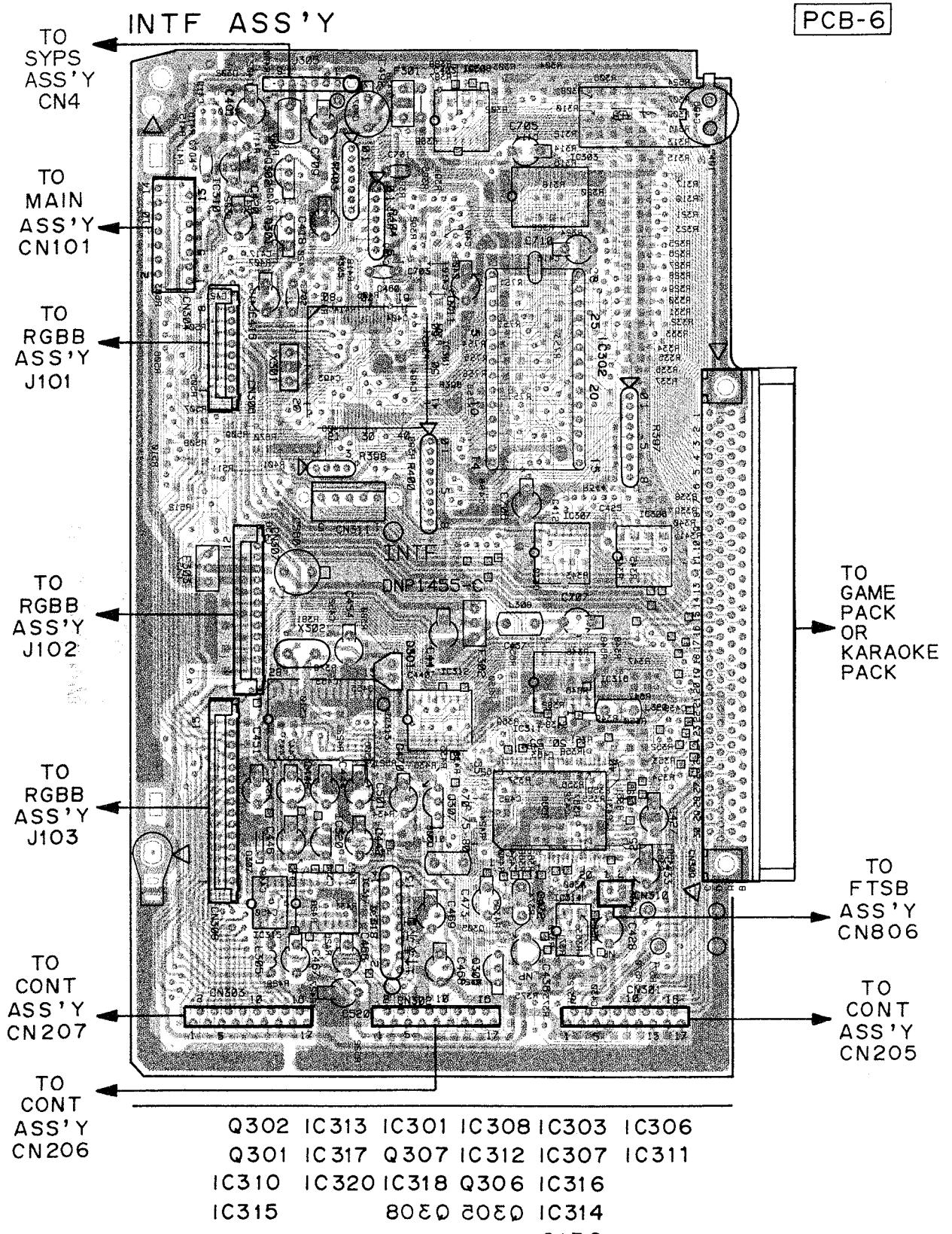
Note : These voltages are at the PLAY mode.

IC311 (CXD2500BQ)

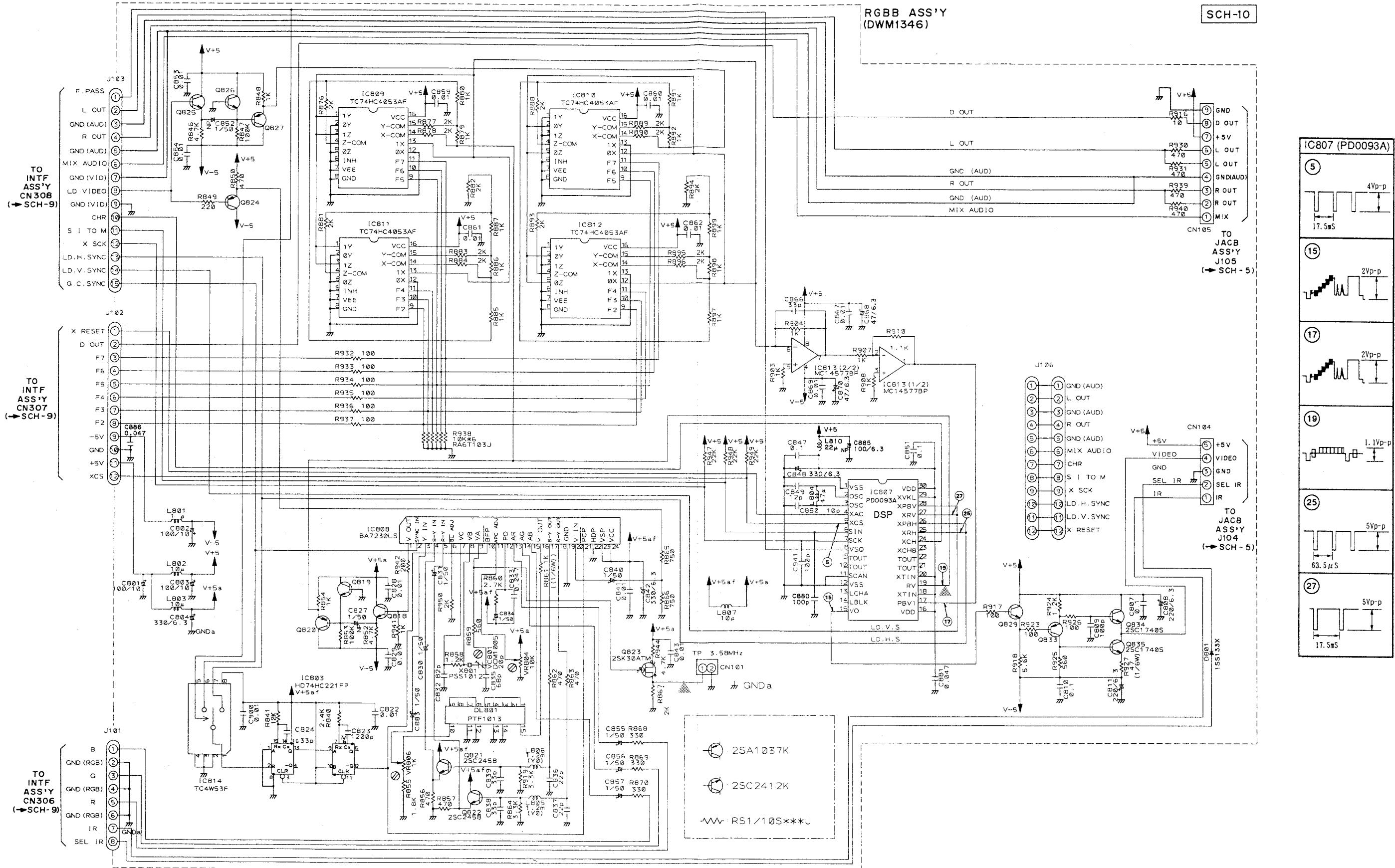
Pin No.	Voltage [V]										
1	0	15	0	29	0	43	*	57	*	71	*
2	0	16	4.8	30	0	44	0	58	*	72	5
3	0	17	0	31	*	45	4.8	59	5	73	5
4	*	18	*	32	*	46	*	60	*	74	*
5	0	19	2.4	33	4.8	47	*	61	5	75	0
6	4.8	20	*	34	*	48	*	62	*	76	0
7	0	21	0	35	*	49	*	63	*	77	*
8	4.8	22	2.3	36	*	50	*	64	*	78	*
9	0	23	4.8	37	*	51	*	65	0	79	*
10	0	24	*	38	*	52	0	66	*	80	0
11	0	25	0	39	0	53	*	67	*		
12	0	26	0	40	4.8	54	*	68	0		
13	0	27	*	41	*	55	0	69	*		
14	0	28	0	42	*	56	*	70	5		

*: Refer to waveforms

- This PCB is double sided.
- Foil pattern for each side is identified with pink and gray.
- Black colored parts are mounted on the pink foil side;
red colored parts on the gray foil side.
- This diagram is viewed from black colored parts side.



5.10 RGBB ASS'Y

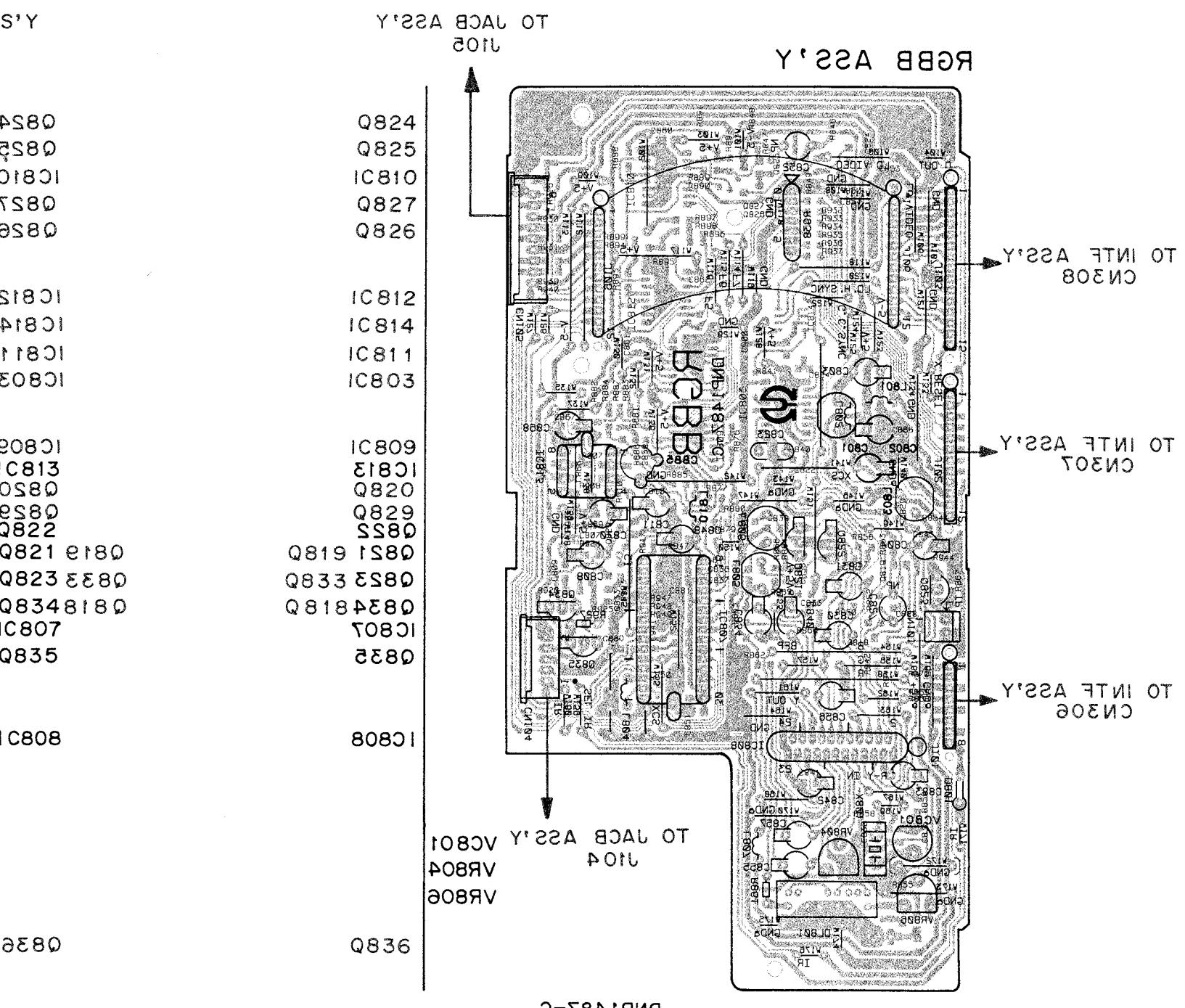
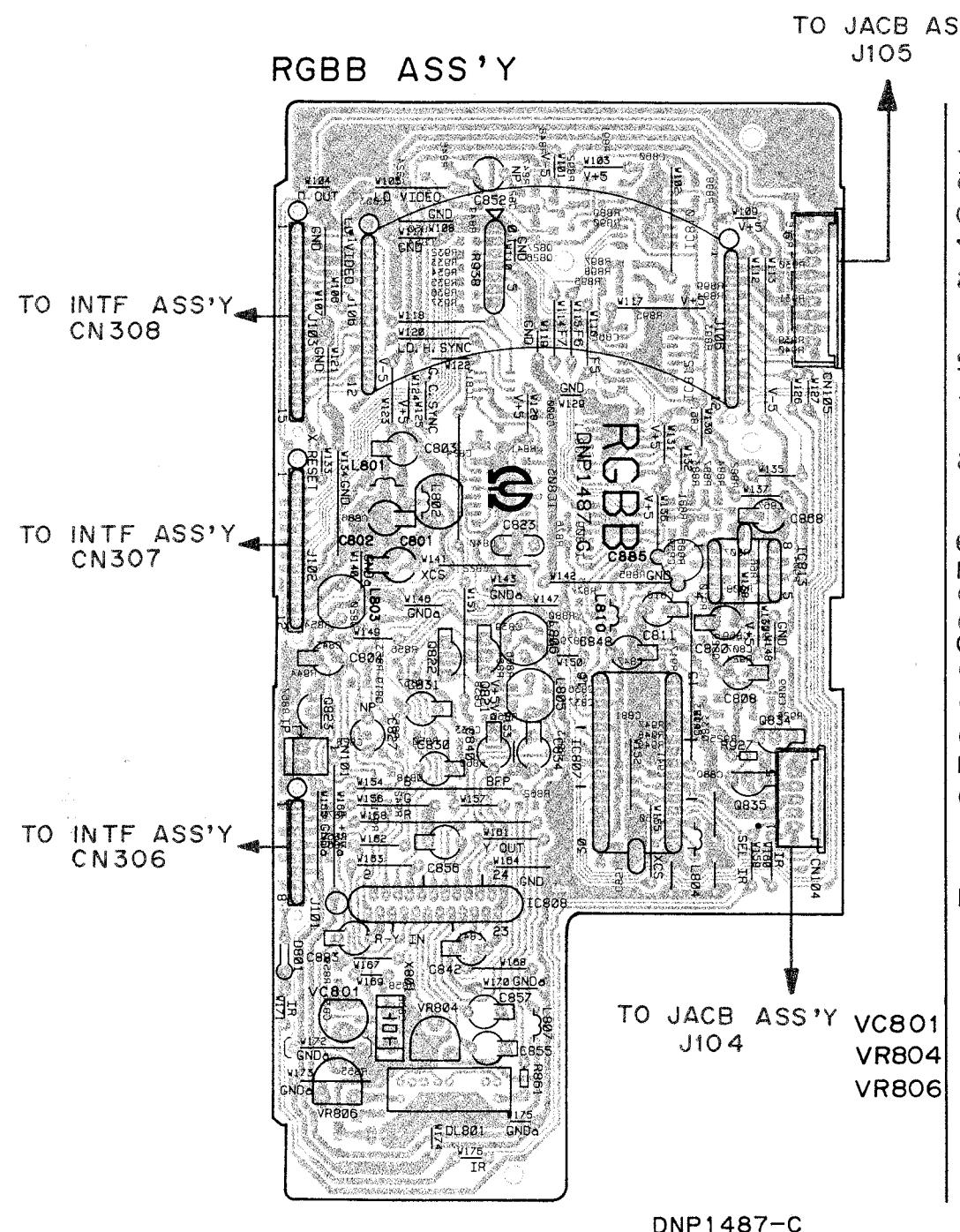


This PCB connection diagram is viewed from the parts mounted side.

This PCB connection diagram is viewed from the foil side.

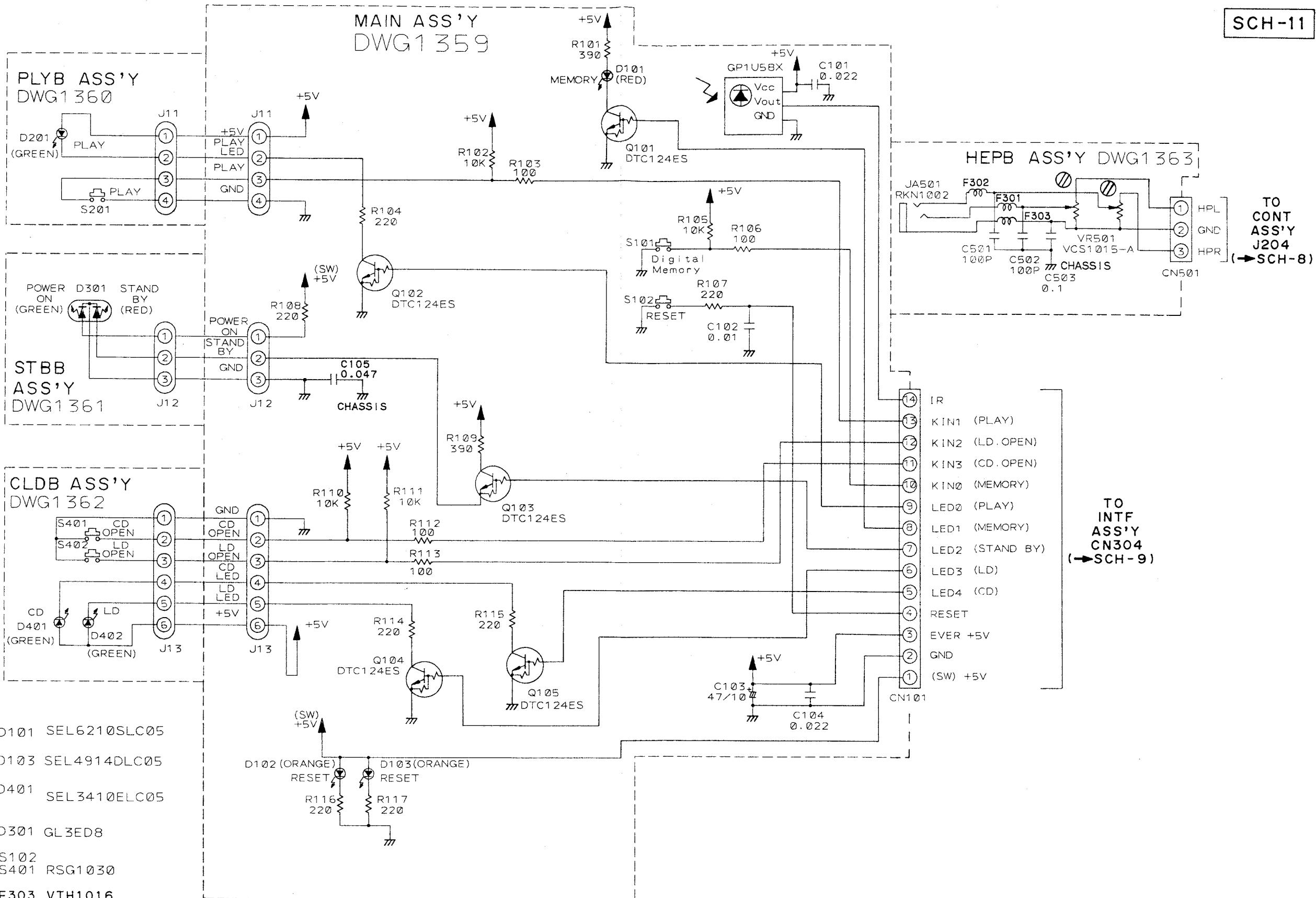
PCB-7

PCB-3



5.11 PLYB, STBB, CLDB, MAIN, HEPB ASS'Y

SCH-11



SCH-11

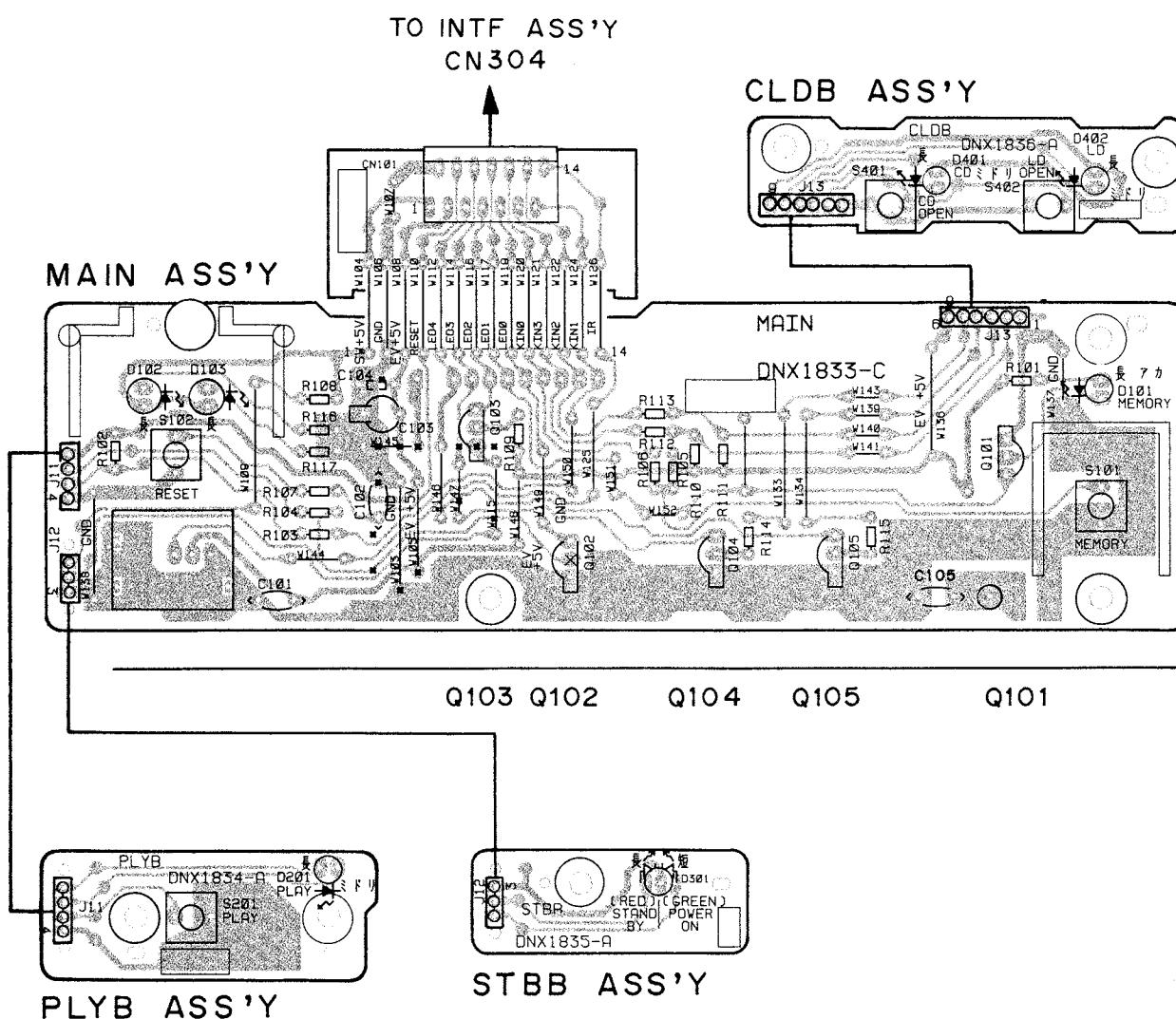
PLYB ASSY, STBB ASSY,
CLDB ASSY, MAIN ASSY,
HEPB ASSY

SCH-11

PLYB ASSY, STBB ASSY,
CLDB ASSY, MAIN ASSY,
HEPB ASSY

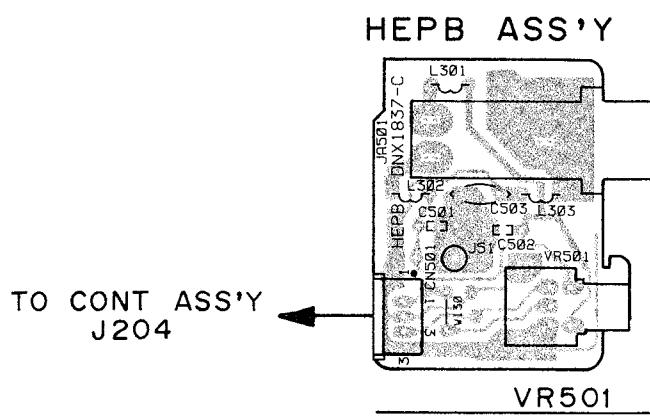
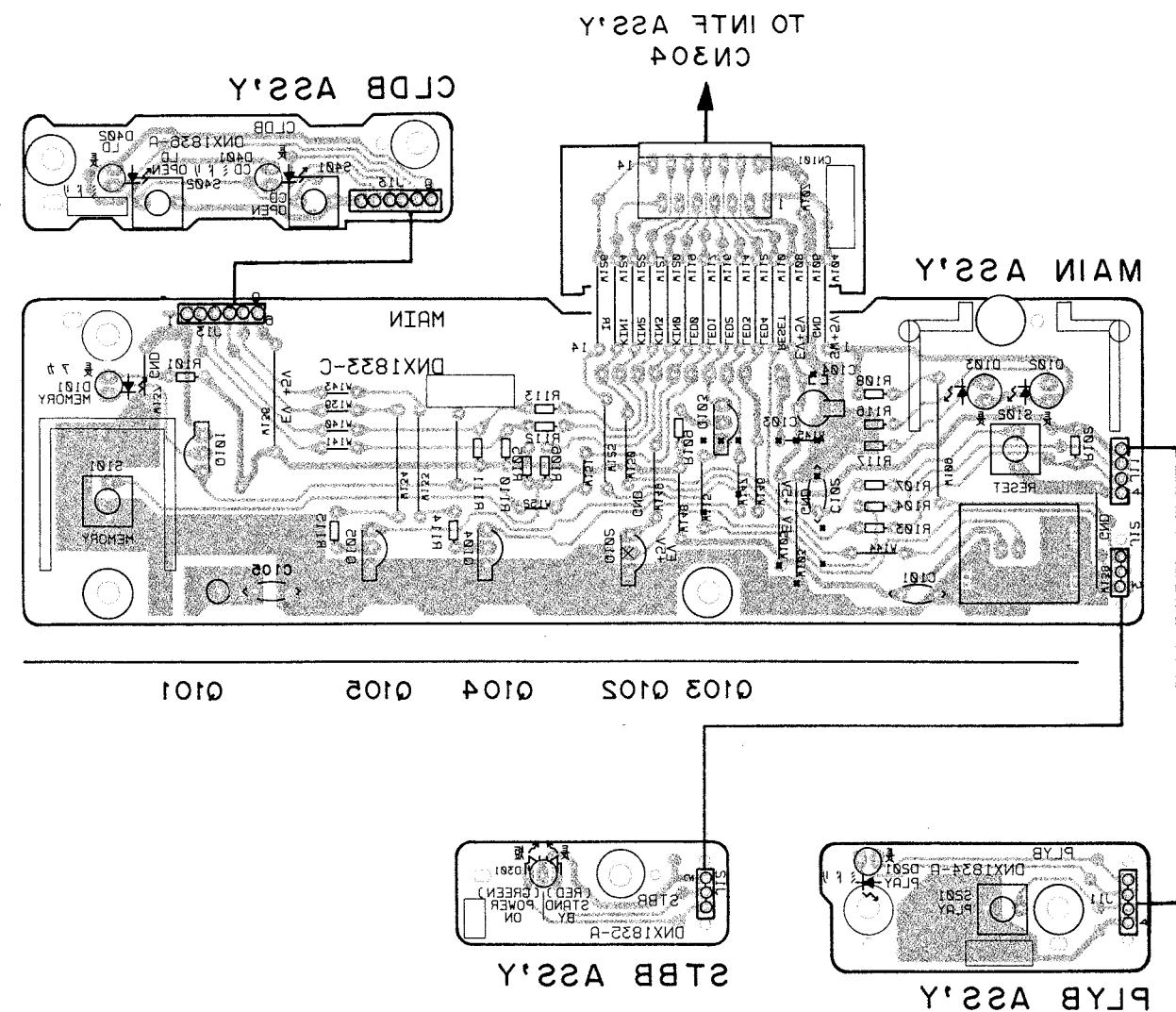
This PCB connection diagram is viewed from the parts mounted side.

PCB-8

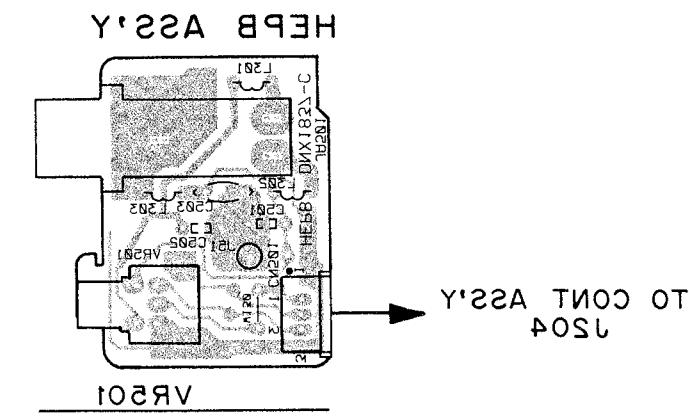


This PCB connection diagram is viewed from the foil side.

PCB-8



DNP1489-C



6. PCB PARTS LIST

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.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- 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%)

56Ω → 56×10^3 → $56k$ Ω RDY/SPK [SOLV]

360Ω	\rightarrow	36×10^3	\rightarrow	561	RDI18PM 5 6 1
$47k\Omega$	\rightarrow	47×10^3	\rightarrow	473	RDI14PS 4 7 3
0.5Ω	\rightarrow	0R5			RN2H 0 R 5 K
1Ω	\rightarrow	010			RS1P 0 1 0 K

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
LIST OF ASSEMBLIES							
NSP	KEIH ASSY		DWM1343			RESISTORS	
NSP	MAIN ASSY		DWG1359			R103,R106,R112,R113	RD1/6PM101J
NSP	PLYB ASSY		DWG1360			R102,R105,R110,R111	RD1/6PM103J
NSP	STBB ASSY		DWG1361			R104,R107,R108,R114-R117	RD1/6PM221J
NSP	CLDB ASSY		DWG1362			R101,R109	RD1/6PM391J
NSP	HEPB ASSY		DWG1363				
NSP	CONT ASSY		DWM1342		OTHER		
	CONT ASSY		DWG1367	CN101	AMP Connector (14P)	6-176927-4	
NSP	PWSW ASSY		DWG1368		Cable Holder (3P)	51048-0300	
					Remote sensor	GP1U58X	
	INTF ASSY		DWM1341				
	SYPS ASSY		DWR1156				
NSP	VIDEO ASSY		DWM1340		PLYB ASSY		
	VIDEO ASSY		DWV1132		SEMICONDUCTORS		
NSP	JACB ASSY		DWX1349	D201			SEL3410ELC05
NSP	MACB ASSY		DWM1344		SWITCHS		
NSP	FG ASSY		DWG1354	S201			RSG1030
NSP	PKSB ASSY		DWG1355				
NSP	CAMB ASSY		DWG1356		STBB ASSY		
NSP	LOSB ASSY		DWG1357		SEMICONDUCTORS		
NSP	LOMB ASSY		DWG1358	D301			GL3ED8
	RGBB ASSY		DWM1346		OTHER		
	FTSB ASSY		DWS1191		Cable Holder (3P)		51048-0300
MAIN ASSY							
SEMICONDUCTORS							
Q101-Q105			DTC124ES		CLDB ASSY		
D102,D103			SEL4914DLC05		SEMICONDUCTORS		
D101			SEL6210SLC05	D401,D402			SEL3410ELC05
SWITCHS							
S101,S102			RSG1030		SWITCHS		
					S401,S402		RSG1030
CAPACITORS							
C103			CEJA470M10		CONT ASSY		
C102			CKCYF103Z50		SEMICONDUCTORS		
C101			CKCYF223Z50	IC352			M51131L
C105			CKCYF473Z50	IC408-IC411,IC453			NJM4558D
C104			CKPUYF223Z25	IC201			PD0178C
				Q453,Q454			2SC1740S
				Q405,Q406			2SD2144S

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	Q407,Q455		DTA124ES			INTF ASSY	
	Q408,Q456		DTC124ES			SEMICONDUCTORS	
	D405—D410		1SS254			IC311	CXD2500BQ
	D401—D404		MTZ6.2B/C			IC302	DYW1319
COILS, FILTERS						IC308	HD74HC00FP
L201			LFA100J			IC307	HD74HC10FP
CAPACITORS						IC312	HD74HC157FP
C204,C205			CCCCH300J50				
C485			CEALNP2R2M35				HD74HC4053FP
C443			CEANP100M16				HD74HC573FP
C491			CEANP330M16				HD74HC74FP
C411			CEANP4R7M35				LC7883KM
C403,C406—C408			CEAS100M50				M51131L
C201			CEAS101M10				
C404			CEAS220M50				NJM4558M
C484			CEAS331M16				NJM78L05A
C401,C410			CEAS470M16				PST529C
C439—C442,C469			CEJA100M16				TC74HCU04AF
C450,C451,C458,C459,			CEJA101M10				GGC1026
C462,C463,C482,C483							
C409			CEJA470M16				2SC2412K
C405			CEJA4R7M50				DTA144ES
C444—C446			CEJANP100M16				DTC114ES
C460,C461			CEJANP220M10				DTC124EK
C412			CEJANP4R7M35				DAN202K
C456,C457			CFTXA102J50				
C452,C453			CFTXA152J50				ERA83—006
C464							FC54M
C454,C455			CFTXA393J50				
C202,C402,C470,C492,C493			CFTXA682J50				LAU010K
C448,C449			CKCYF473Z50				LFA010J
C203			CKPUYB681K50				LFA2R2J
			CKPUYF103Z25				DTH1157
RESISTORS				CAPACITORS			
All resistors			RD1/6PM□□□J	C510			CCSQCH100D50
				C404—C411,C462,C463			CCSQCH101J50
				C438			CCSQCH120J50
				C439			CCSQCH360J50
				C418			CEAL100M16
OTHER							
CN205—CN207	JE Connector plug		17PS—JE	C453			CCSQCH220J50
	Cable holder (3P)		51048—0300	C401,C416,C433			CEAL101M6R3
	Cable holder (8P)		51048—0800	C520			CEAL470M10
J204	Flat cable (3P)		D20PYY0360E	C444,C446,C448,C451			CEAL470M6R3
J201	Flat cable (10P)		D20PYY1025E	C428			CEALNPR47M50
J202,J203	Flat cable (14P)		D20PYY1425E	C436			
J211	Flat cord (8P)		DDD1075	C466,C467,C501			CEAS100M16
J210	Flat cord (10P)		DDD1076	C705—C707,C710,C711			CEAS101M6R3
J209,J212	Flat cord (14P)		DDD1077	C473			CEAS220M25
	Screw terminal		VNE1856	C427,C441			CEAS221M6R3
X101	Ceramic resonator (9.00MHz)		VSS1040	C560,C709			
				C442,C454,C470			CEAS331M6R3
				C492			CEAS470M10
				C469			CEAS471M6R3
				C468			CEJA220M16
							CEJA470M10
PWSW ASSY							
SWITCHS							
S101			DSG1042	C420			CEJA4R7M50
				C701—C704			CGCYX104M25
				C434			CKSQYB152K50
				C419			CKSQYF102Z50
				C431,C440,C445,C452,C455,C464			CKSQYF103Z50