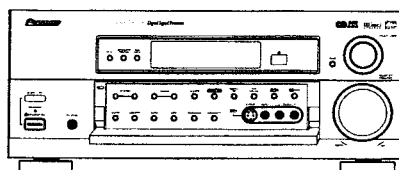


Service Manual

Pioneer



ORDER NO.
RRV2446

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D810S

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

Type	Model	Power Requirement	Remarks
	VSX-D810S		
MYXJIEW	○	AC220-230V	
MYXJIGR	○	AC220-230V	
MVXJI	○	AC230V	

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1. SAFETY INFORMATION	2	7. GENERAL INFORMATION	63
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4. PCB CONNECTION DIAGRAM	36	7.2.1 IC	65
5. PCB PARTS LIST	56	7.2.2 DISPLAY	71
6. ADJUSTMENT	62	8. PANEL FACILITIES AND SPECIFICATIONS	73

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS SERVICE, INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
 © PIONEER CORPORATION 2001

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.



WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65



NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols  (fast operating fuse) and/or  (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible  (fusible de type rapide) et/ou  (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

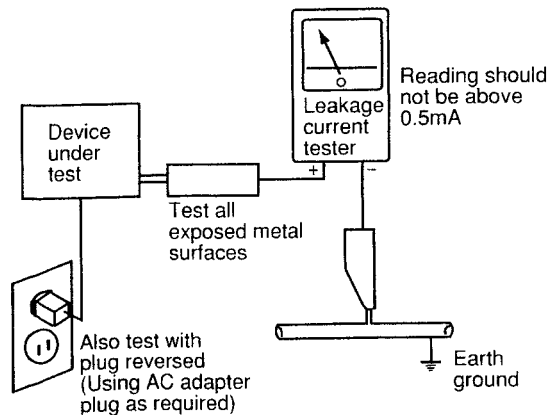
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a Δ on the schematics and on the parts list in this Service Manual.

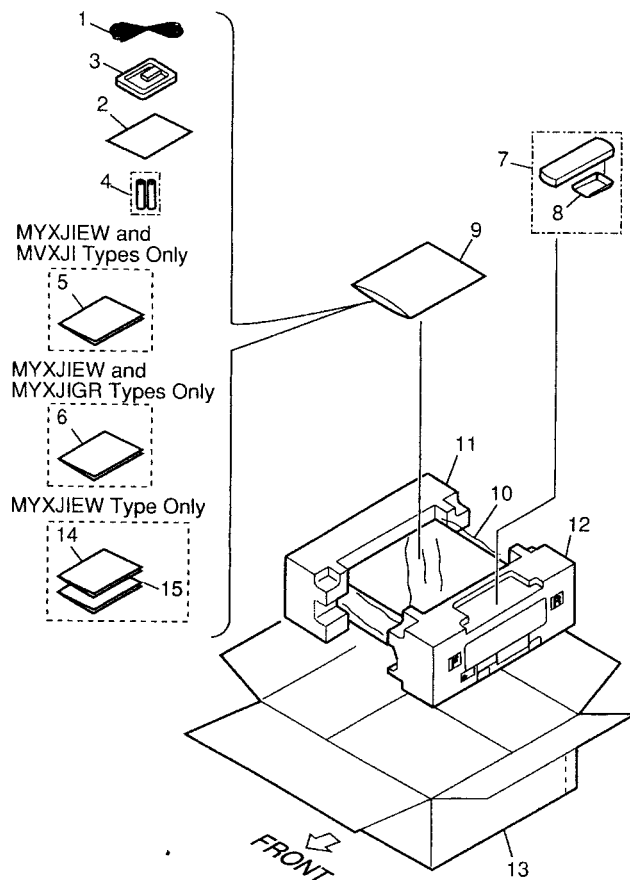
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND 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.
 - Screws adjacent to ∇ mark on the product are used for disassembly.

2.1 PACKING



(1) PACKING PARTS LIST

Mark	No.	Description	Part No.
NSP	1	FM Wire Antenna	ADH7005
	2	Warranty Card	ARY7022
	3	AM Loop Antenna	ATB7009
NSP	4	Dry Cell Battery (R6P, AA)	VEM-013
	5	Operating Instructions (English)	See Contrast table (2)
	6	Operating Instructions (German)	See Contrast table (2)
	7	Remote Control Unit	XXD3029
	8	Battery Cover	XZA3002
NSP	9	Polyethylene Bag (0.03 x 230 x 340)	Z21-038
	10	Packing Sheet	AHG7069
	11	Left Pad R4	XHA3024
	12	Right Pad R4	XHA3025
	13	Packing Case 810/MY	XHD3152
	14	Operating Instructions (Dutch/Swedish/Portuguese)	See Contrast table (2)
	15	Operating Instructions (French/Italian/Spanish)	See Contrast table (2)

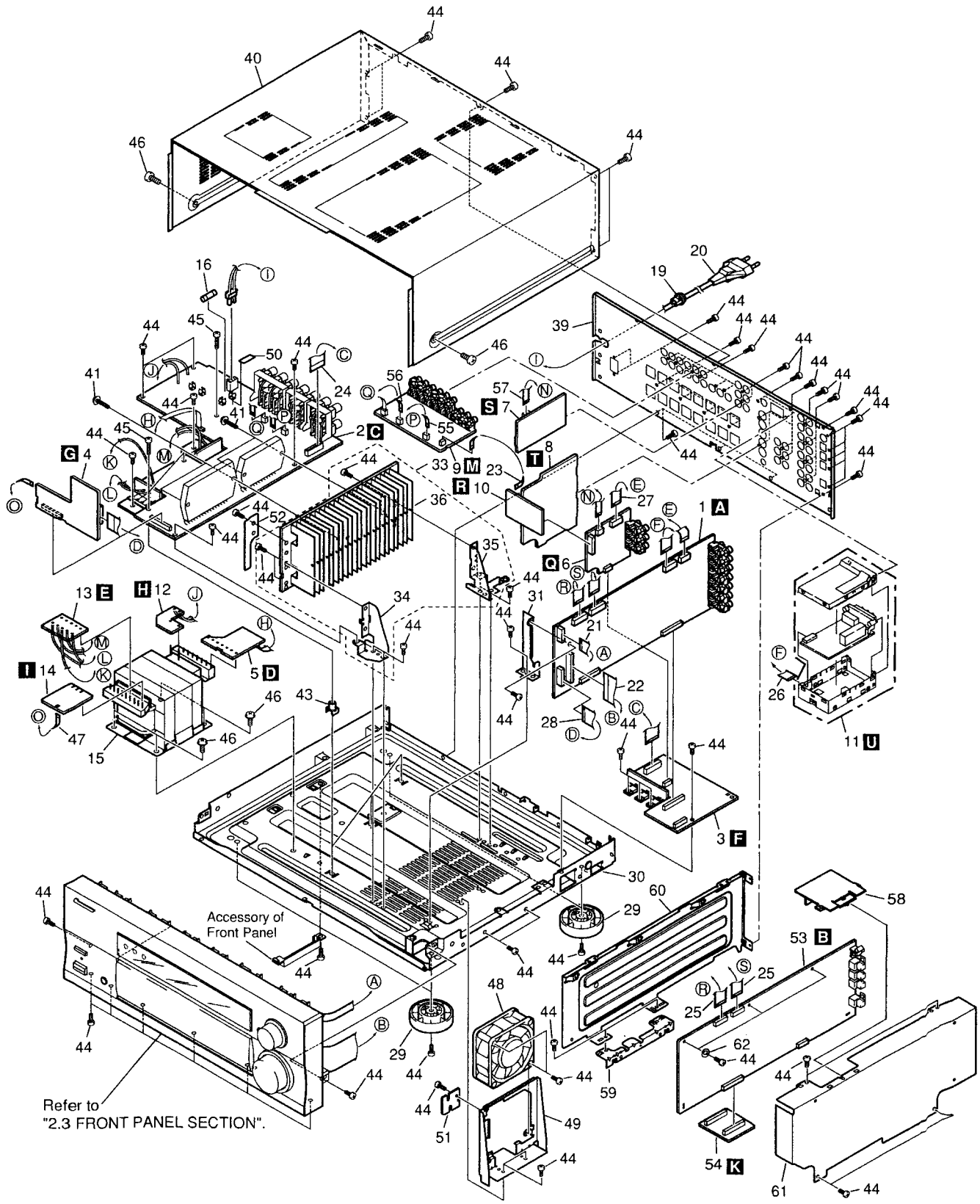
(2) CONTRAST TABLE

VSX-D810S/MYXJIEW, MYXJIGR and MVXJI are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.			Remarks
			VSX-D810S /MYXJIEW	VSX-D810S /MYXJIGR	VSX-D810S /MVXJI	
	5	Operating Instructions (English)	XRB3005	Not used	XRB3005	
	6	Operating Instructions (German)	XRC3031	XRC3031	Not used	
	14	Operating Instructions (Dutch/Swedish/Portuguese)	XRC3032	Not used	Not used	
	15	Operating Instructions (French/Italian/Spanish)	XRC3033	Not used	Not used	

VSX-D810S

2.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	D.D UCOM Assy	XWZ3398		31	PCB Angle	ANG7253
	2	AMP&PRIMARY Assy	XWZ3381		32	•••••	
	3	REGULATOR Assy	XWZ3386	NSP	33	Heat Sink Assy 0.4x40	XNH3020
	4	AMP INPUT Assy	XWZ3389		34	Heat Sink Angle F	ANG7251
	5	TRANS 2 Assy	XWZ3404		35	Heat Sink Angle R	ANG7252
	6	VIDEO&6CH IN Assy	XWZ3335	NSP	36	Heat Sink 0.4x40	XNH3019
	7	6CH IN Assy	XWZ3350		37	•••••	
	8	S. VIDEO Assy	XWZ3363		38	•••••	
	9	COMPONENT Assy	XWZ3366		39	Rear Panel 810MY	XNC3073
	10	BOARD TO BOARD Assy	XWZ3371		40	Bonnet Case	XZN3112
	11	FM/AM TUNER MODULE	AXQ7232		41	Screw	ABA7043
NSP	12	TRANS 1 Assy	XWZ3390		42	•••••	
NSP	13	TRANS 3 Assy	XWZ3392		43	PCB Mold	AMR2533
	14	TRANS 4 Assy	XWZ3369		44	Screw	BBZ30P080FMC
Δ	15	Power Transformer (T1) (AC220-230V)	XTS3047		45	Screw	BBZ30P200FMC
	16	Fuse (FU1 : T3.15A)	REK1027		46	Screw	FBT40P080FZK
	17	•••••			47	FFC (J22 : 3P/30V) (TRANS 4 CN891 ↔ AMP INPUT CN251)	XDD3061
	18	•••••			48	Fan Motor	XXM3002
Δ	19	Cord Stopper	CM-22B		49	Fan Holder R4	XNG3040
	20	AC Power Cord	See Contrast table (2)		50	Fuse Card	AAX7493
	21	FFC (J32 : 13P/30V) (D.D UCOM CN103 ↔ FRONT CN401)	XDD3062	NSP	51	Binder Assy	XWZ3401
	22	FFC (J31 : 31P/30V) (D.D UCOM CN102 ↔ FRONT CN402)	XDD3063	NSP	52	Hold Assy	XWZ3402
	23	FFC (J38 : 5P/30V) (BOARD TO BOARD CN392 ↔ COMPONENT CN5501)	XDD3073		53	D.D DSP Assy	XWZ3395
	24	FFC (J36 : 23P/30V) (REGULATOR CN801 ↔ AMP&PRIMARY CN53)	XDD3064		54	D TO O Assy	XWZ3368
	25	FFC (J39, J40 : 20P/30V) (D.D UCOM CN9501 ↔ D.D DSP CN9806) (D.D UCOM CN9502 ↔ D.D DSP CN9805)	XDD3065		55	FFC (J45 : 4P/30V) (AMP INPUT CN603 ↔ COMPONENT CN1576)	XDD3066
	26	FFC (J34 : 13P/30V) (D.D UCOM CN105 ↔ FM/AM TUNER UNIT)	XDD3059		56	FFC (J46 : 7P/30V) (AMP INPUT CN604 ↔ COMPONENT CN1575)	XDD3067
	27	FFC (J33 : 15P/30V) (D.D UCOM CN104 ↔ VIDEO&6CH IN CN303)	XDD3069		57	FFC (J48 : 9P/30V) (VIDEO&6CH IN CN304 ↔ 6CH IN CN307)	XDD3070
	28	FFC (J35 : 19P/30V) (D.D UCOM CN106 ↔ AMP INPUT CN254)	XDD3071		58	FFC Cover R4	XMR3019
	29	Insulator	PNW2766		59	SH Support R4	XNG3041
NSP	30	Under Base 409	ANA7094		60	Shield A R4	XNG3042
					61	Shield B R4	XNG3043
					62	Washer	VEC1254

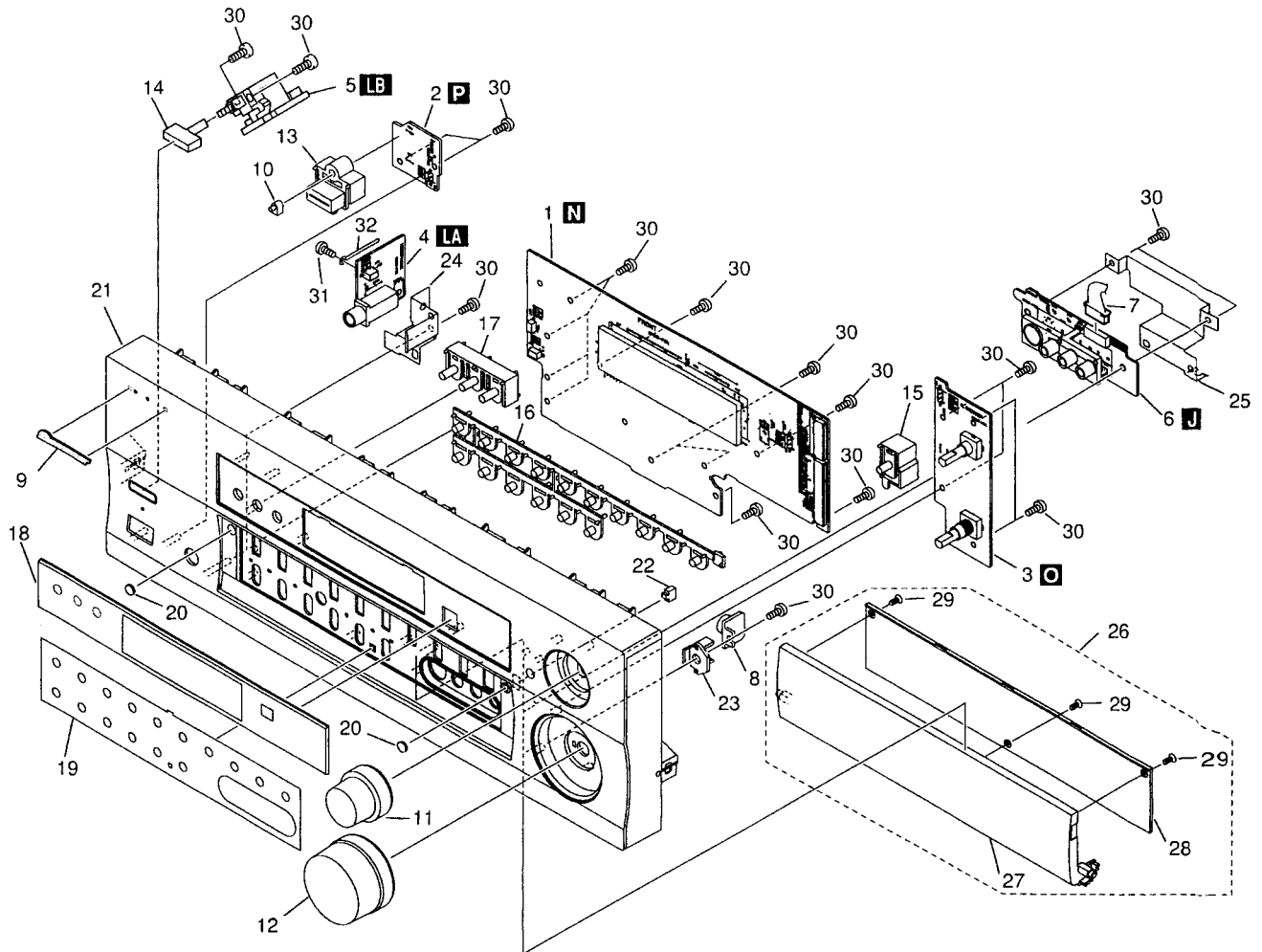
(2) CONTRAST TABLE

VSX-D810S/MYXJIEW, MYXJIGR and MVXJI are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.			Remarks
			VSX-D810S /MYXJIEW	VSX-D810S /MYXJIGR	VSX-D810S /MVXJI	
Δ	20	AC Power Cord	VDG1080	VDG1080	VDG1076	

VSX-D810S

2.3 FRONT PANEL SECTION



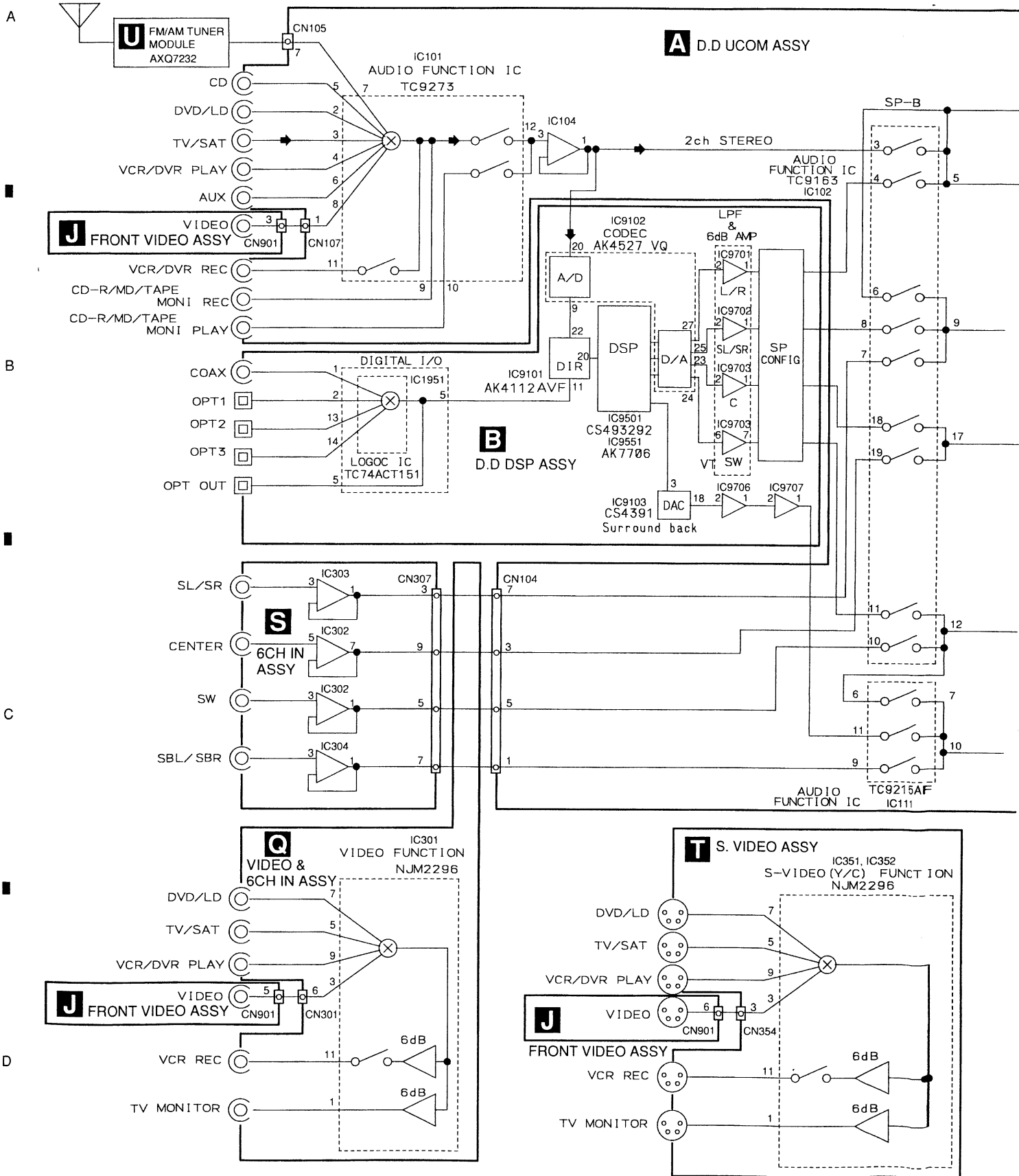
● FRONT PANEL SECTION PARTS LIST

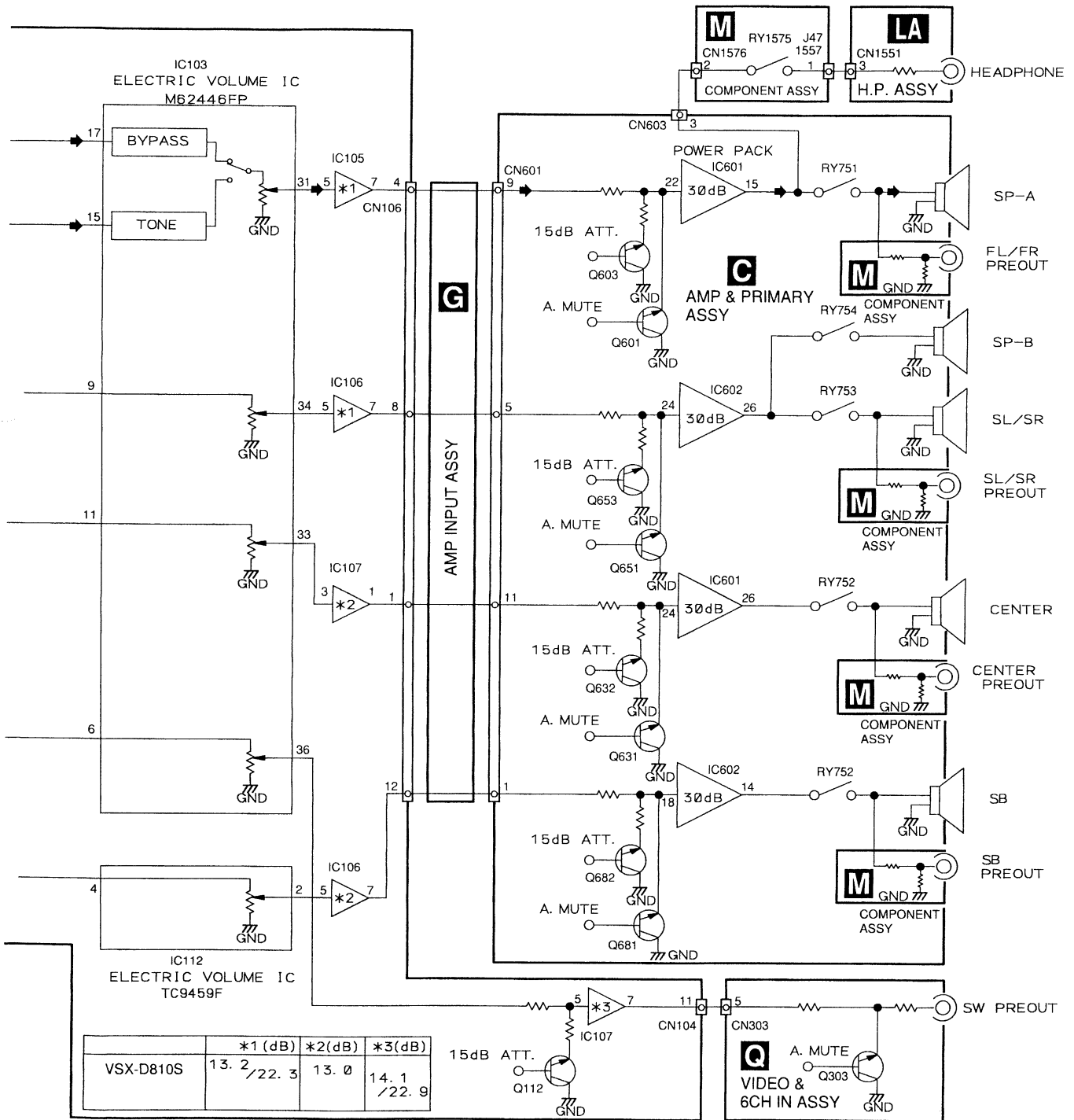
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	FRONT Assy	XWZ3346		16	Door Button R4B	XAD3070
	2	POWER SW Assy	XWZ3352		17	RDS Button R4B	XAD3072
	3	R. ENCODER Assy	XWZ3354		18	Display Panel W/MY	XAK3171
	4	H.P. Assy	XWZ3357		19	Button Cover R4B2	XAK3224
	5	MECHA SW Assy	XWZ3358		20	Cushion R4B	XED3001
NSP	6	FRONT VIDEO Assy	XWZ3359		21	Front Panel 810/MY	XMB3037
	7	8P Shield Cable	XDX3012		22	Magnet 35	AMF7007
	8	Damper Assy	AXA7052		23	Holder L R4	XMR3016
	9	Name Plate	PAM1776		24	Earth Plate A R4	XNG3044
	10	LED Lens	PNW2019		25	Earth Plate B R4	XNG3045
	11	Select Knob R4B	XAB3008	NSP	26	Door Assy R4B	XXG3068
	12	Volume Knob R4B	XAB3011		27	Door R4B	XAK3173
	13	Power Button R4B	XAD3062		28	Door Cover R4B	XAK3175
	14	Power Button M	AAD7442		29	Screw	XBA3001
	15	Jog Button R4B	XAD3065		30	Screw	PFZ30P080 ^{FM} C
					31	Screw	BBZ30P080 ^{FM} C
					32	Cord Clamper	RNH-184

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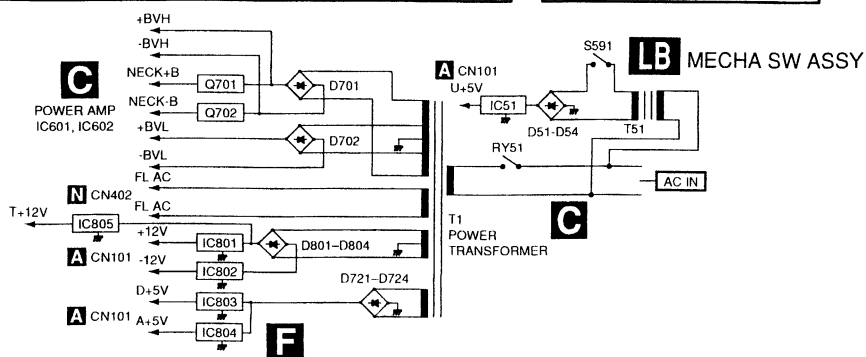
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM





	*1 (dB)	*2(dB)	*3(dB)
VSX-D810S	13.2 / 22.3	13.0	14.1 / 22.9



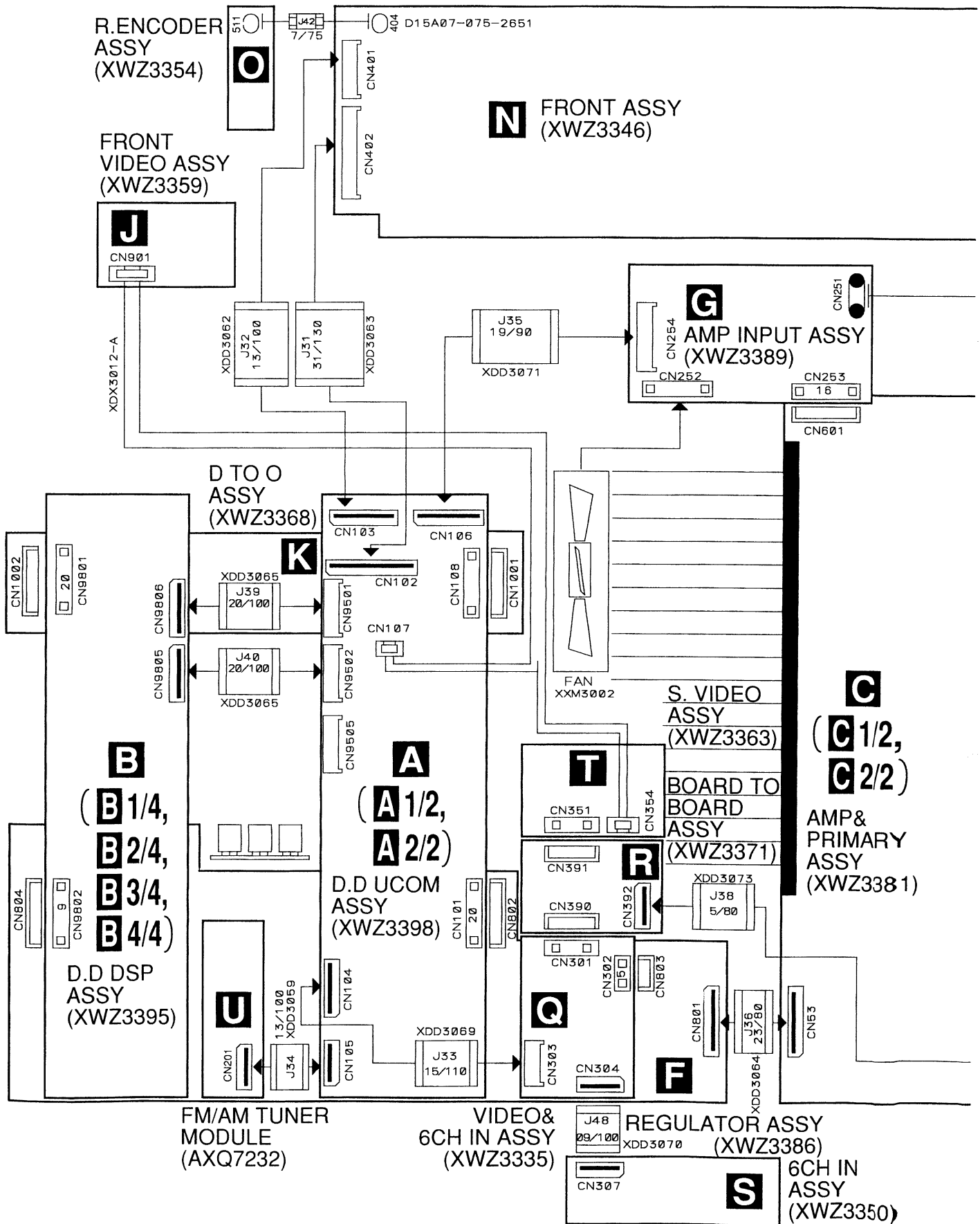
3.2 OVERALL WIRING CONNECTION DIAGRAM

A

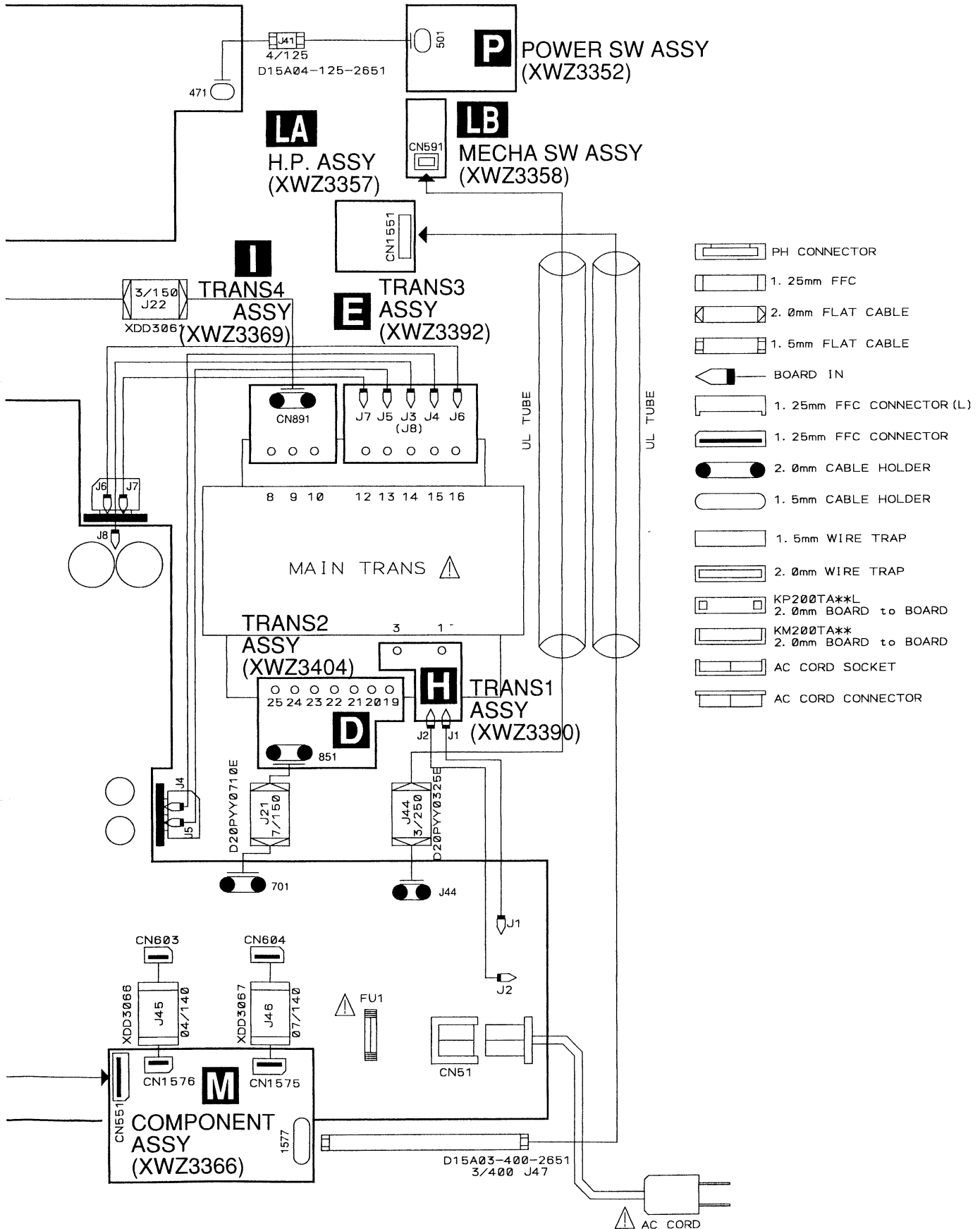
B

C

D



Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



A

B

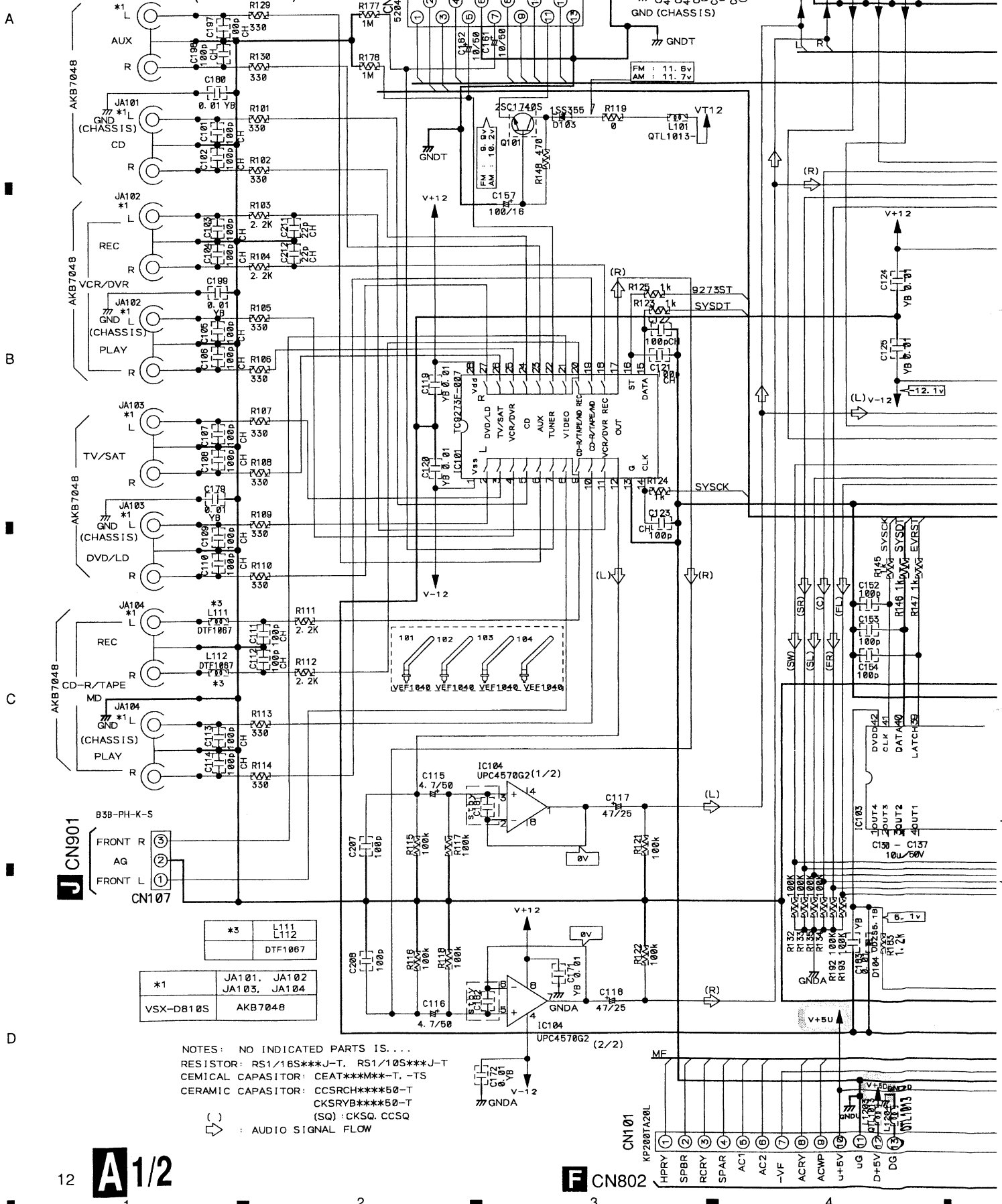
C

D

VSX-D810S

3.3 D.D UCOM ASSY (1/2)

A 1/2 D.D UCOM ASSY (XWZ3398)



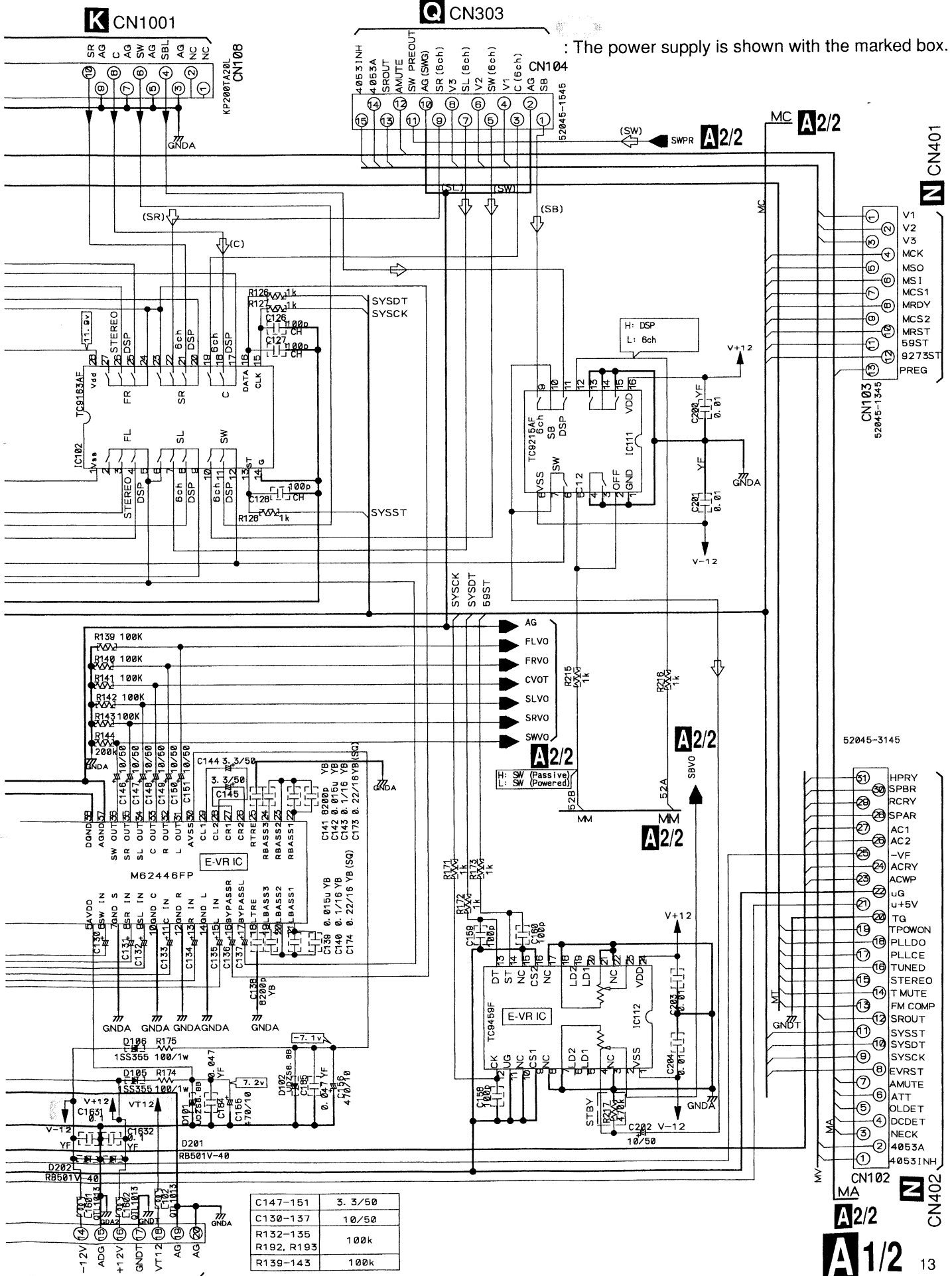
NOTES: NO INDICATED PARTS IS...
 RESISTOR: RS1/16S***J-T, RS1/10S***J-T
 CEMICAL CAPASITOR: CEAT***M**T, -TS
 CERAMIC CAPASITOR: CCSRCH***50-T
 CKSRYP***50-T
 (SQ): CKSQ, CCSQ
 (C) : AUDIO SIGNAL FLOW

*3	L111
	L112
	DTF1067

*1	JA101, JA102
	JA103, JA104
	VSX-D810S
	AKB7048

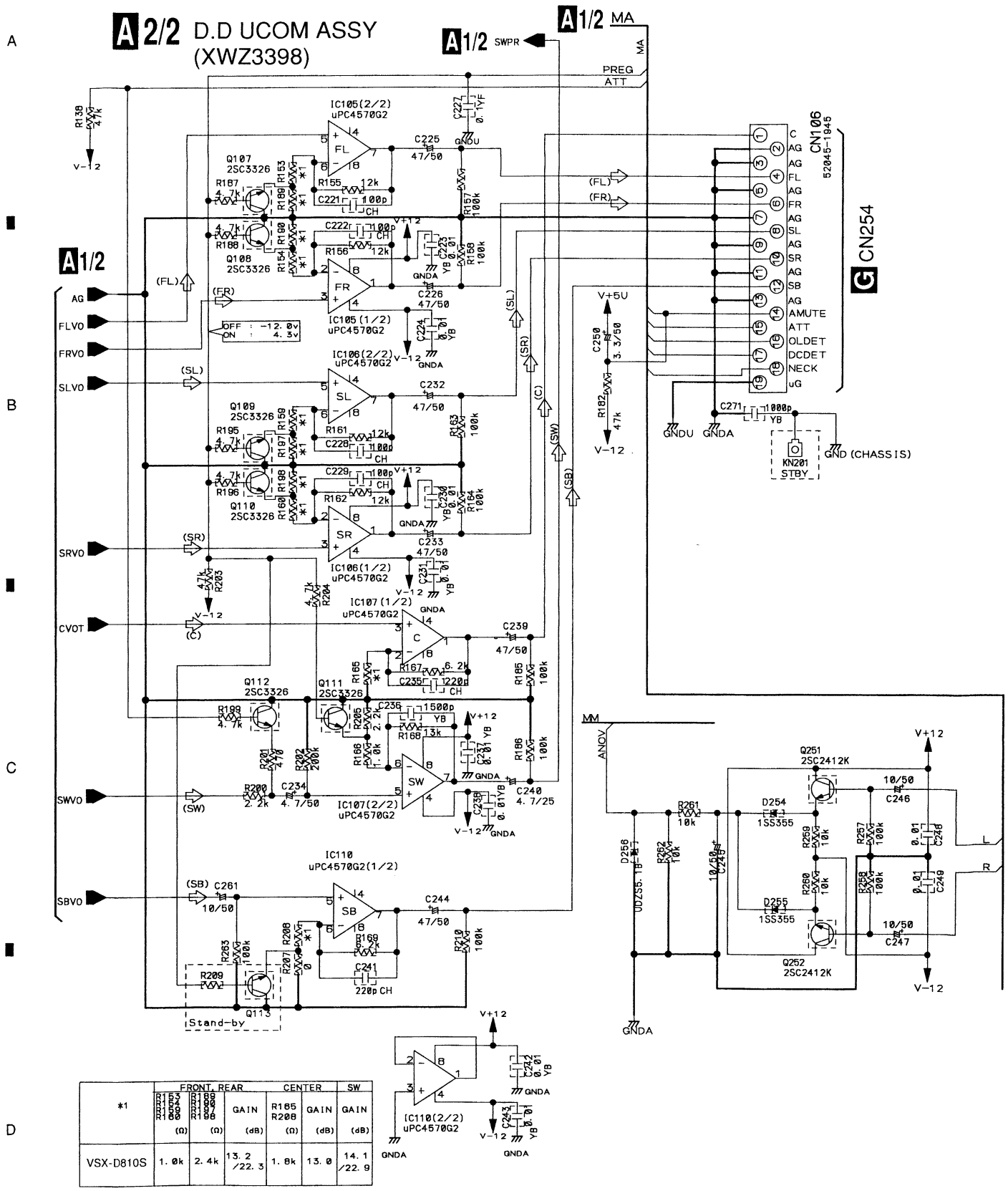
VSX-D810S

: The power supply is shown with the marked box.

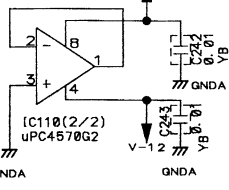


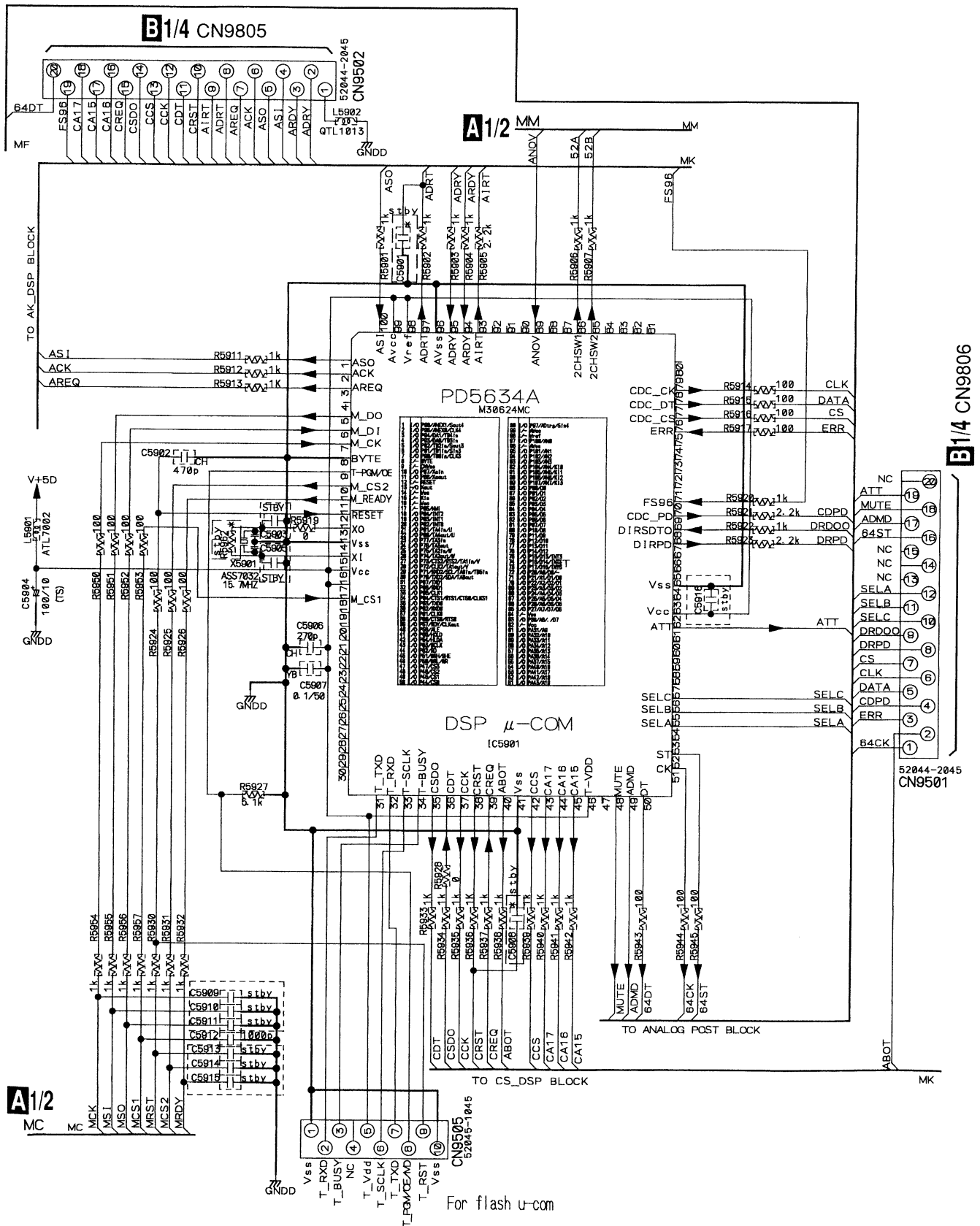
A1/2

3.4 D.D UCOM ASSY (2/2)



*1	FRONT REAR		CENTER		SW
	R185 (Ω)	R208 (Ω)	R185 (dB)	R208 (dB)	GAIN (dB)
VSX-D810S	1.0k	2.4k	13.2 /22.3	1.8k	13.0 /22.9





A1/2

B1/4 CN9806

A2/2

3.5 D.D DSP ASSY (1/4)

B1/4
D.D DSP ASSY
(XWZ3395)

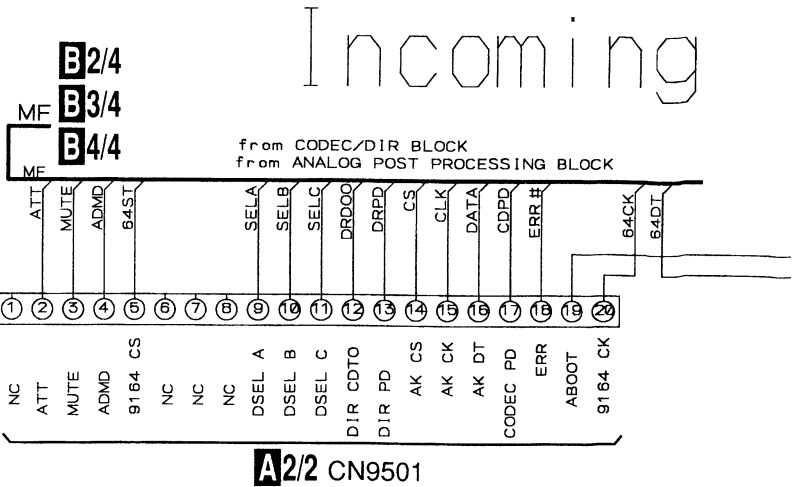
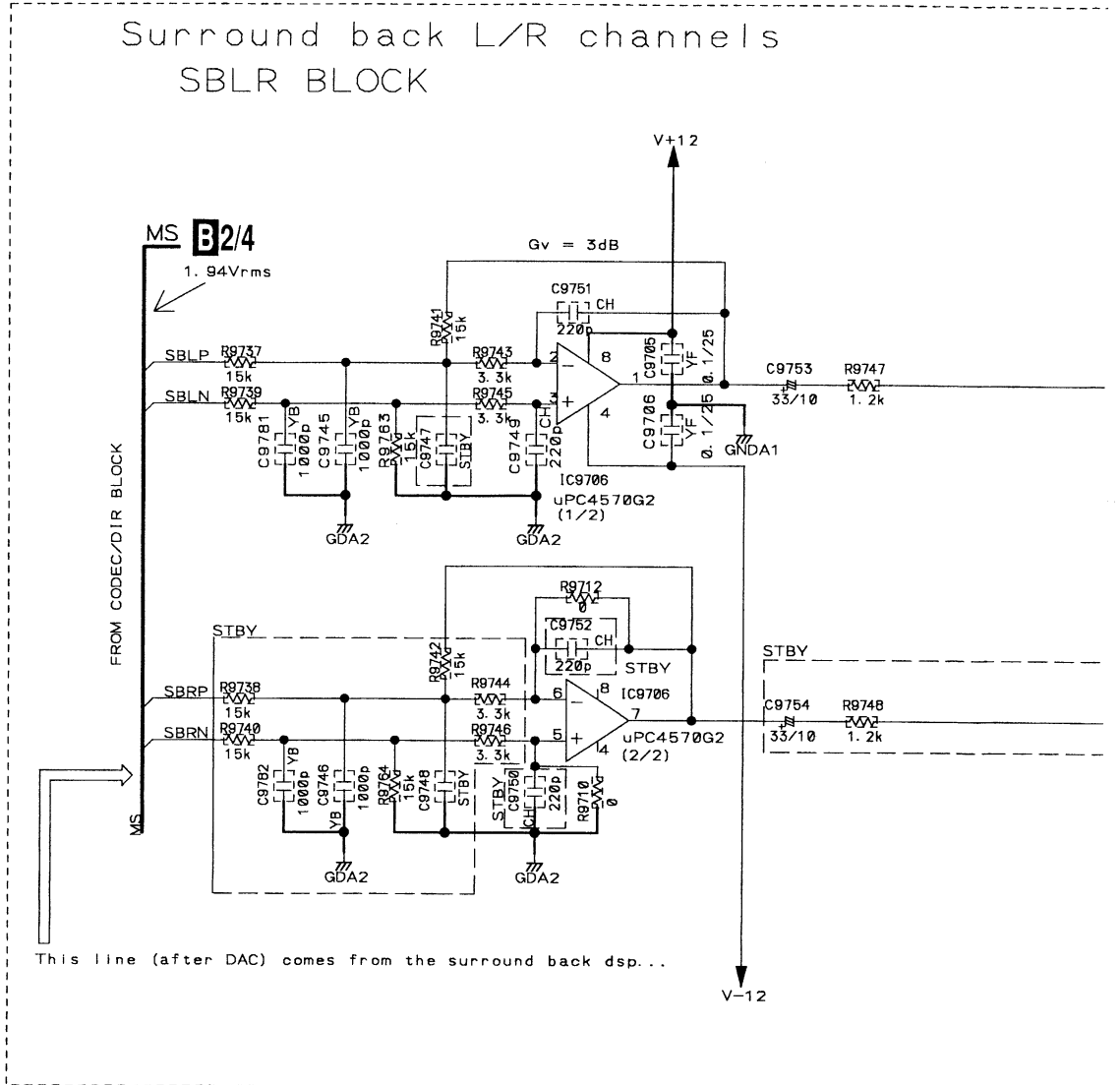
A

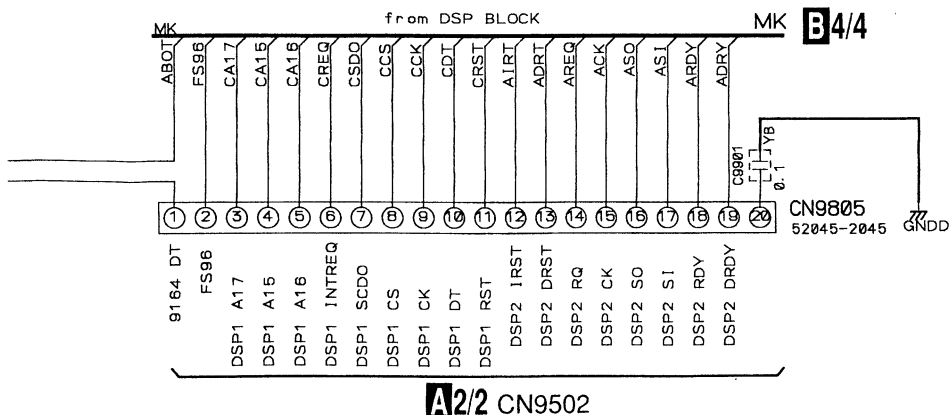
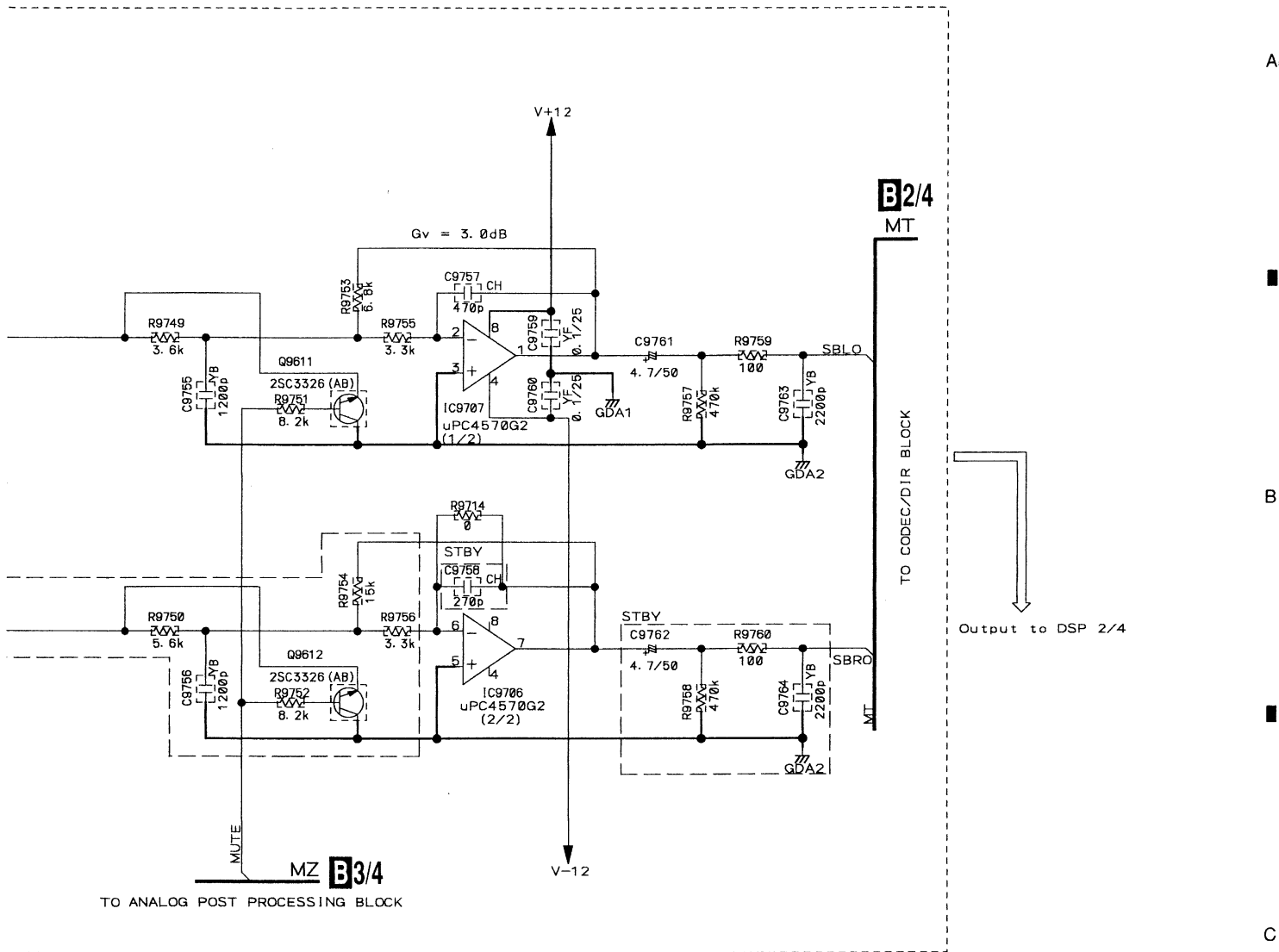
B

C

D

Surround back L/R channels
SBLR BLOCK





VSX-D810S

3.6 D.D DSP ASSY (2/4)

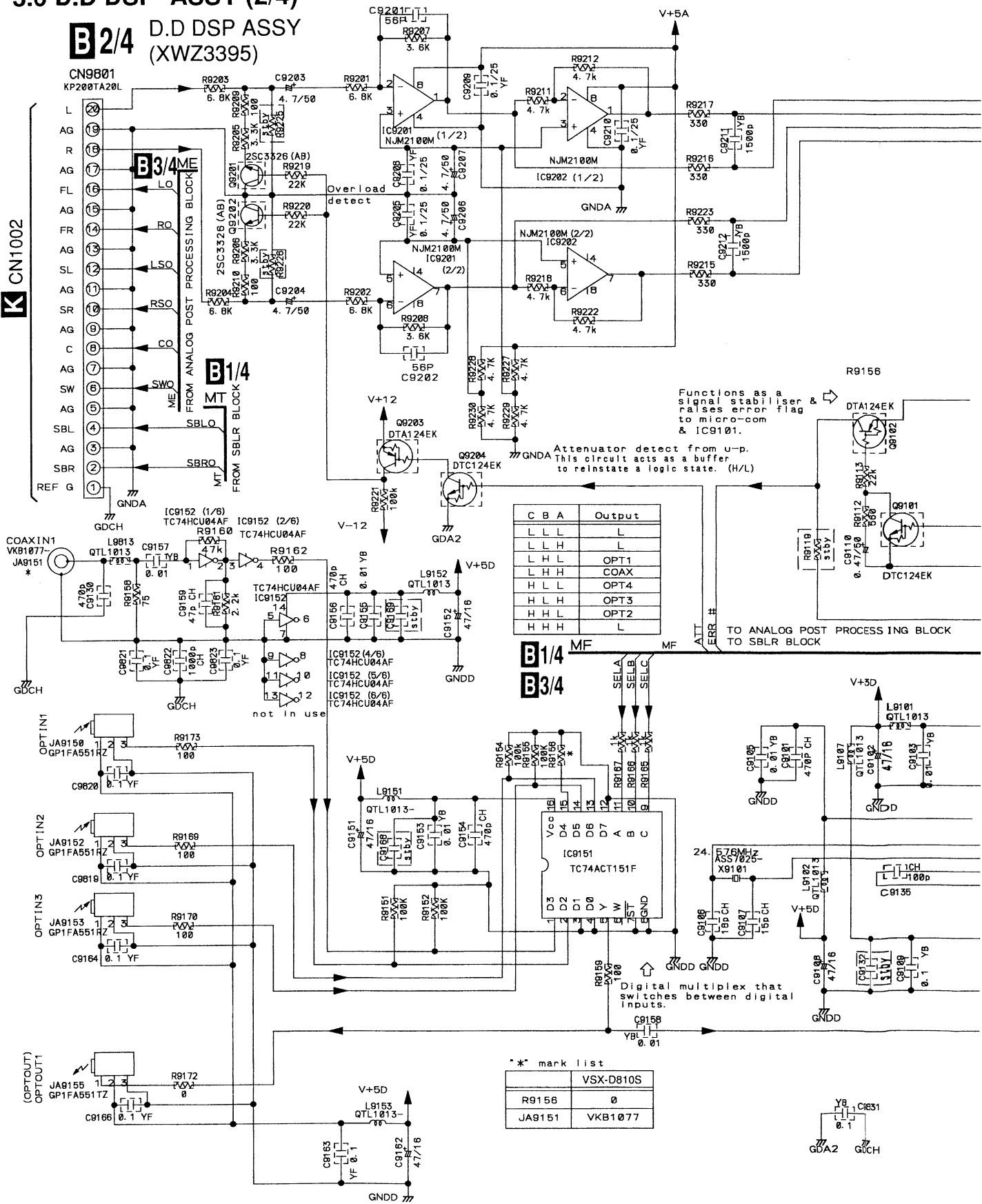
B2/4 D.D DSP ASSY (XWZ3395)


A

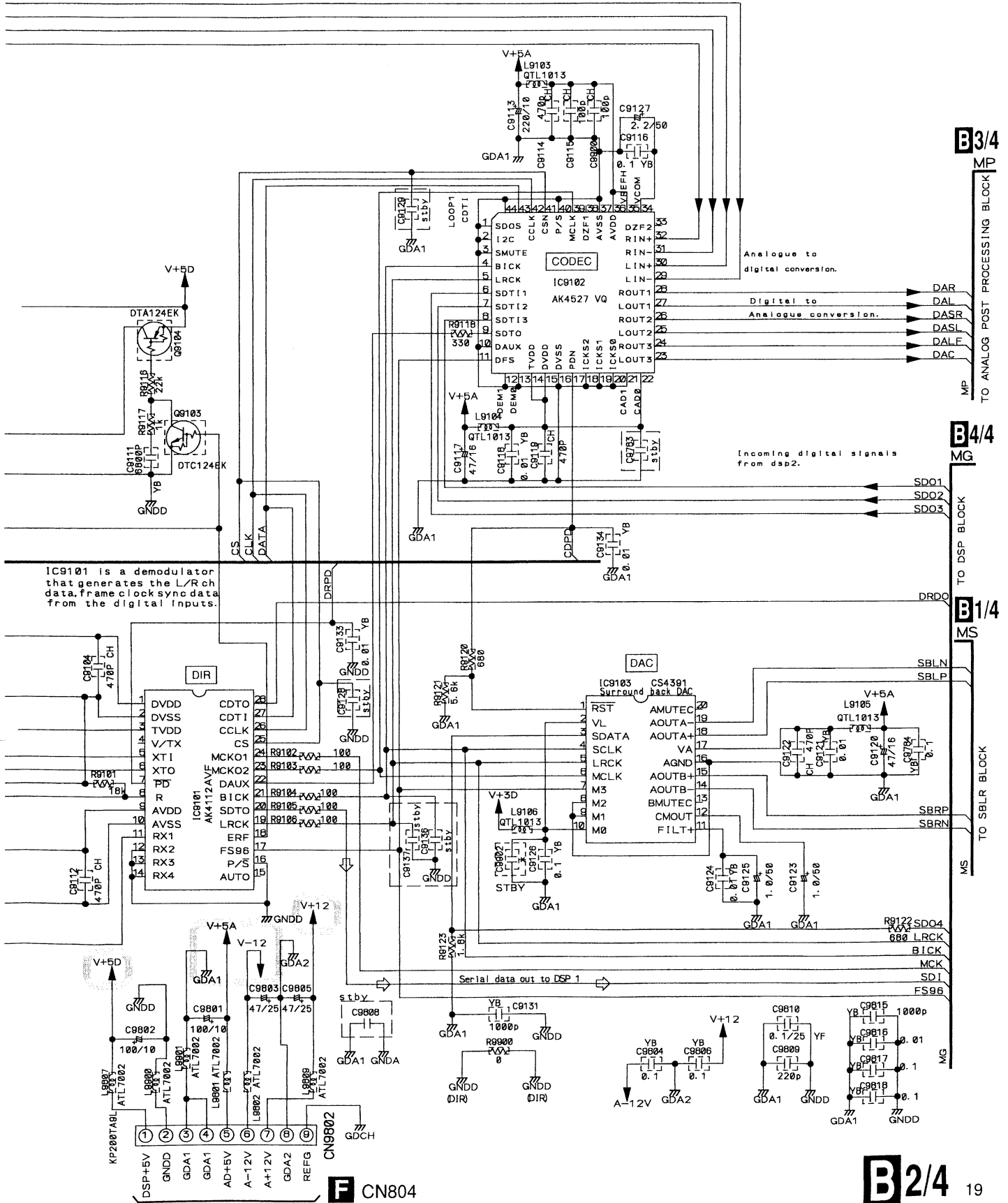
B

C

D



 : The power supply is shown with the marked box.



A
B
C
D

F CN804

B2/4 19

VSX-D810S

3.7 D.D DSP ASSY (3/4)

B2/4 0.51dBv Typ
MP

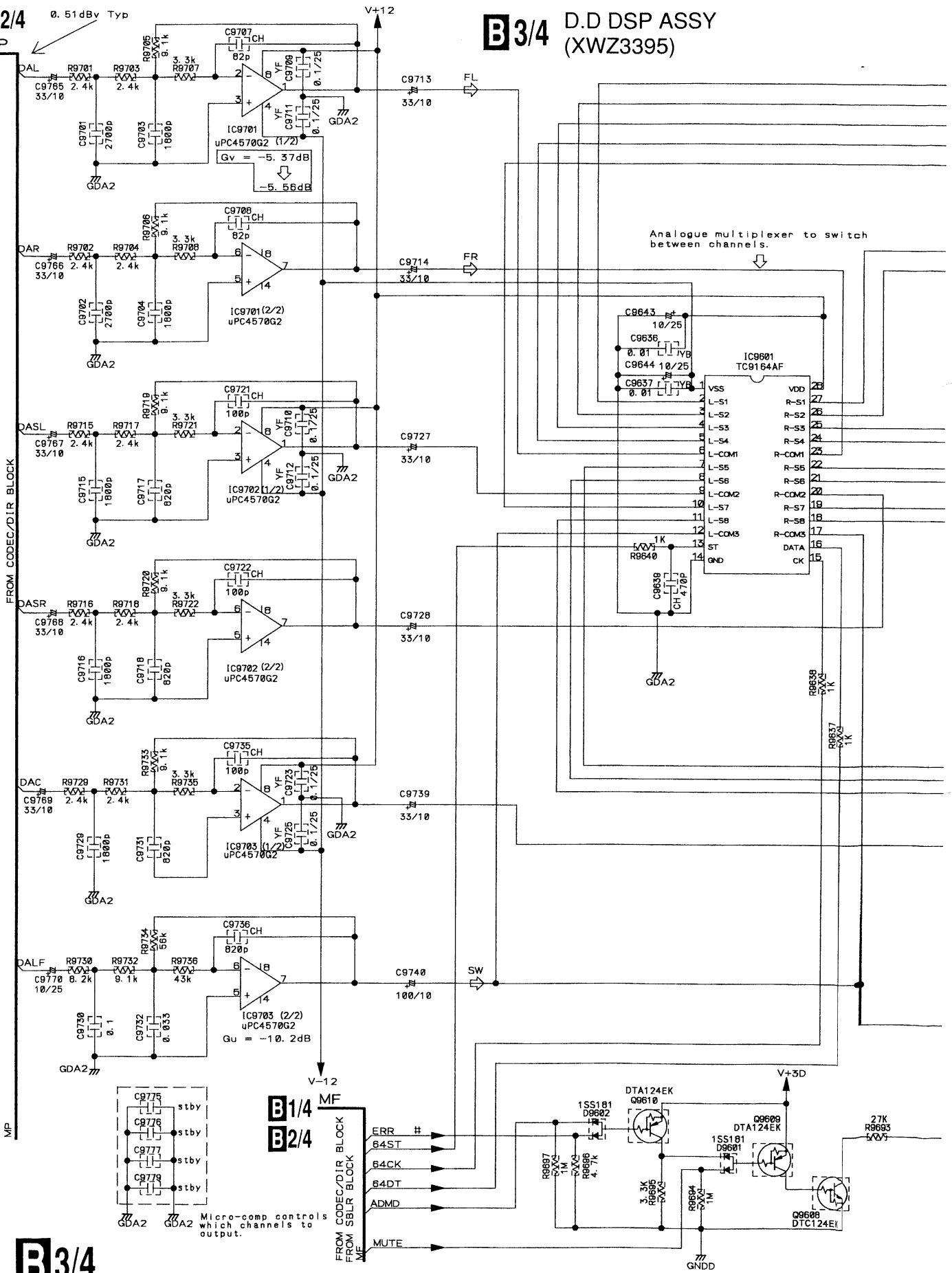
B3/4 D.D DSP ASSY (XWZ3395)

A

B

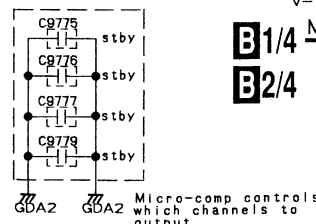
C

D



FROM CODEC/DIR BLOCK

MP



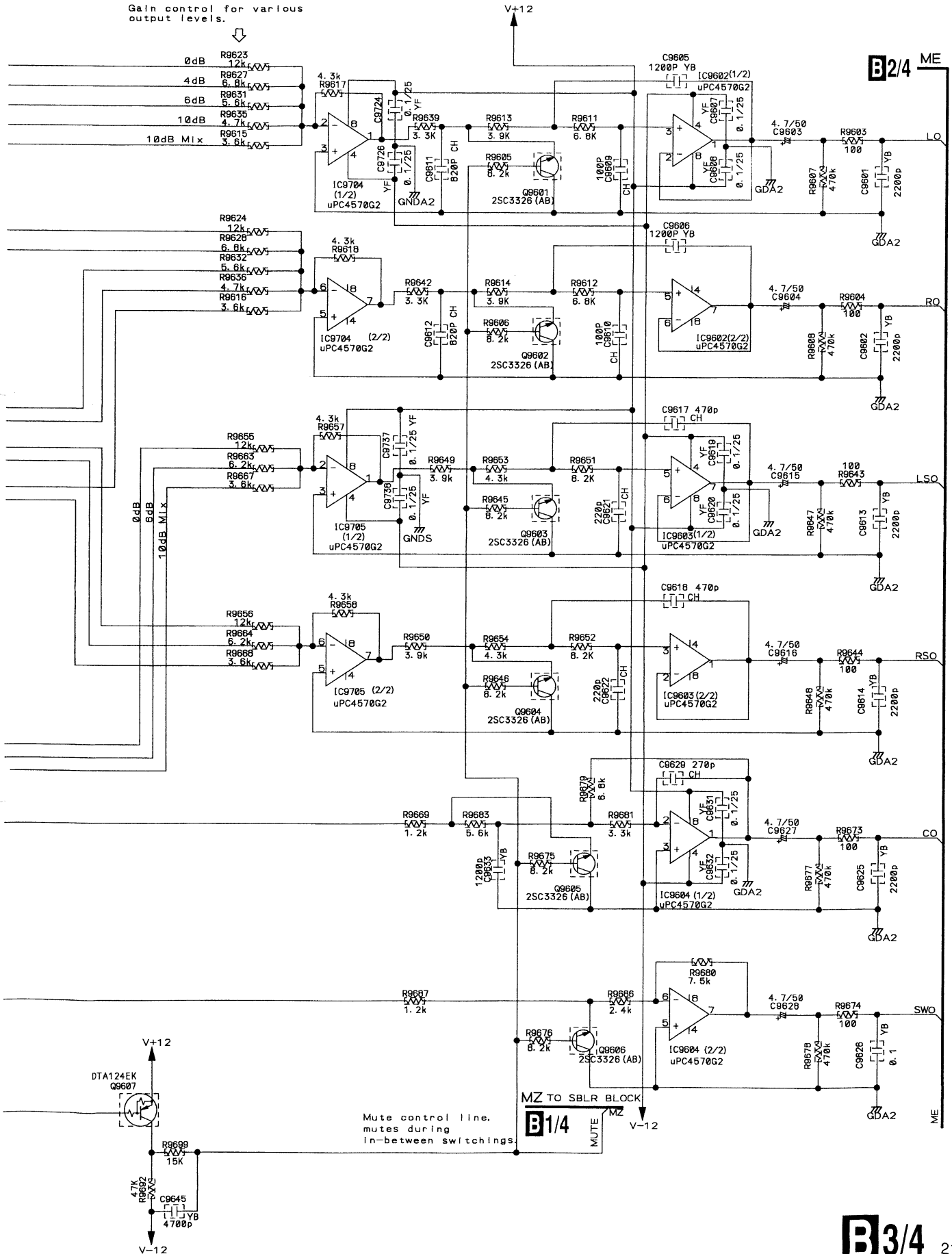
B1/4
B2/4

FROM CODEC/DIR BLOCK

FROM SBLR BLOCK

B3/4

Gain control for various output levels.

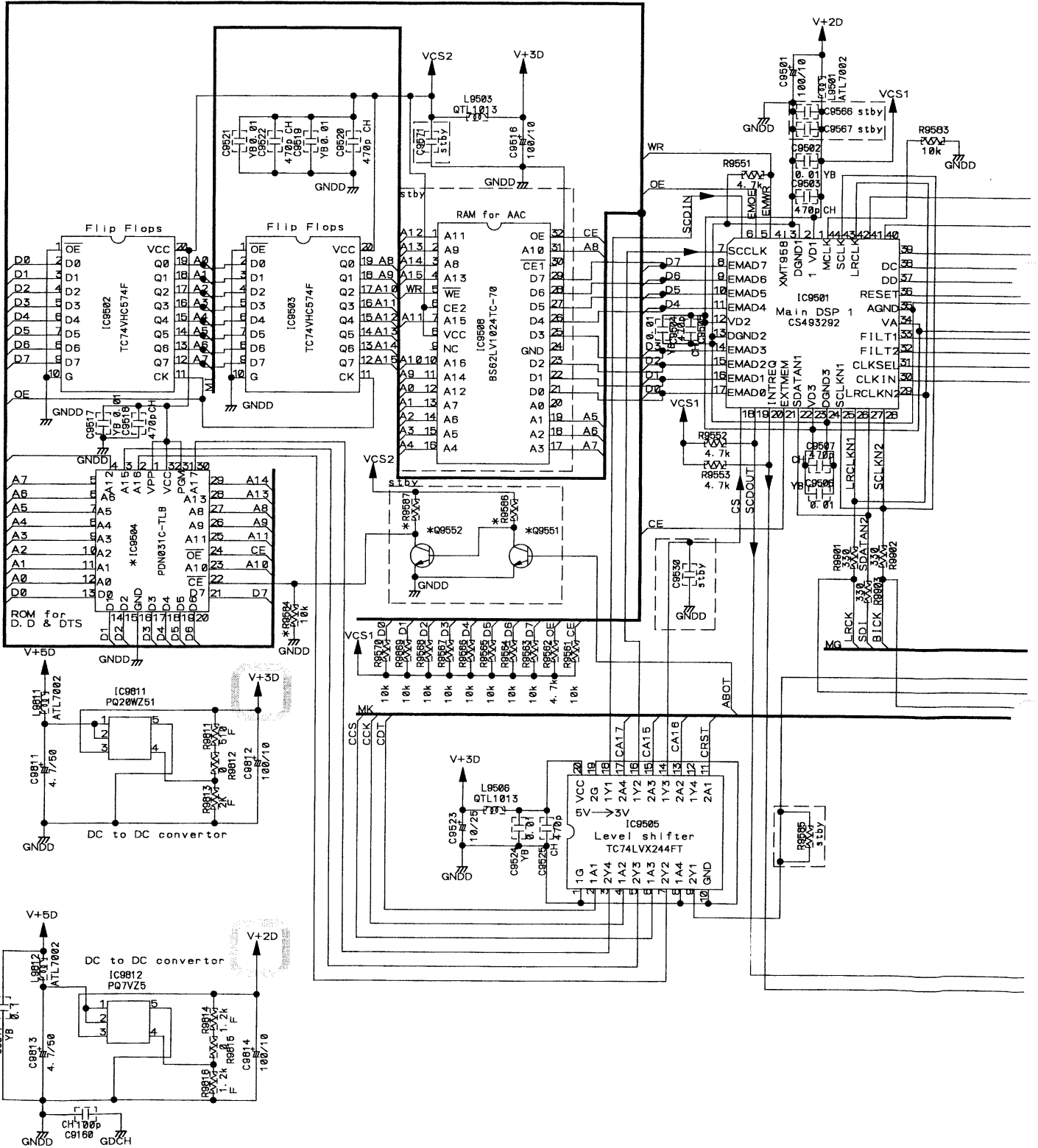


TO CODEC/DIR BLOCK

3.8 D.D DSP ASSY (4/4)

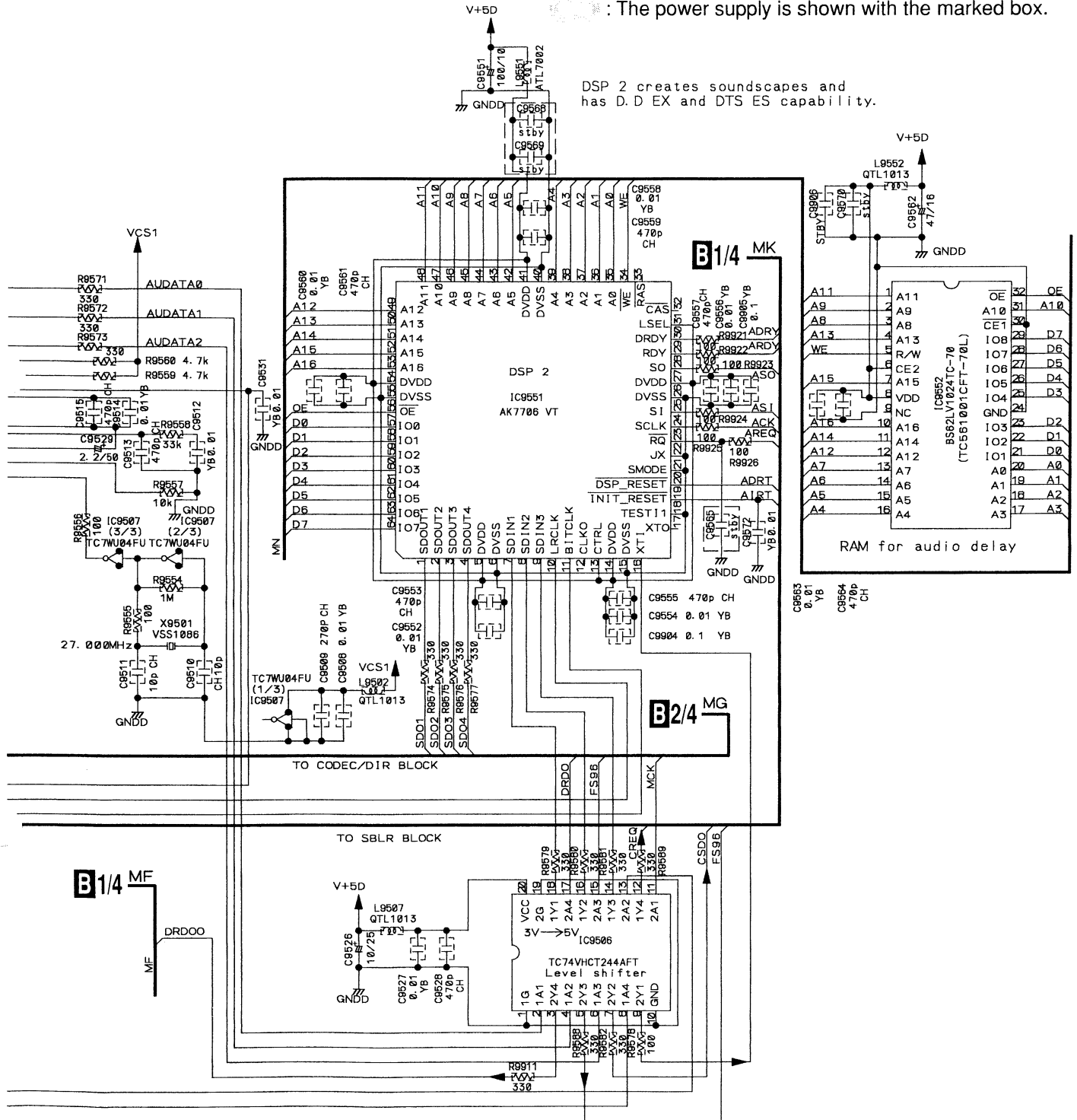
B 4/4 D.D DSP ASSY (XWZ3395)

Main DSP 1 decodes D.D and DTS signals.



V+5D : The power supply is shown with the marked box.

DSP 2 creates soundscapes and has D.D EX and DTS ES capability.



3.9 AMP&PRIMARY (1/2), TRANS2 and TRANS3 ASSYS

C1/2 AMP&PRIMARY ASSY (XWZ3381)

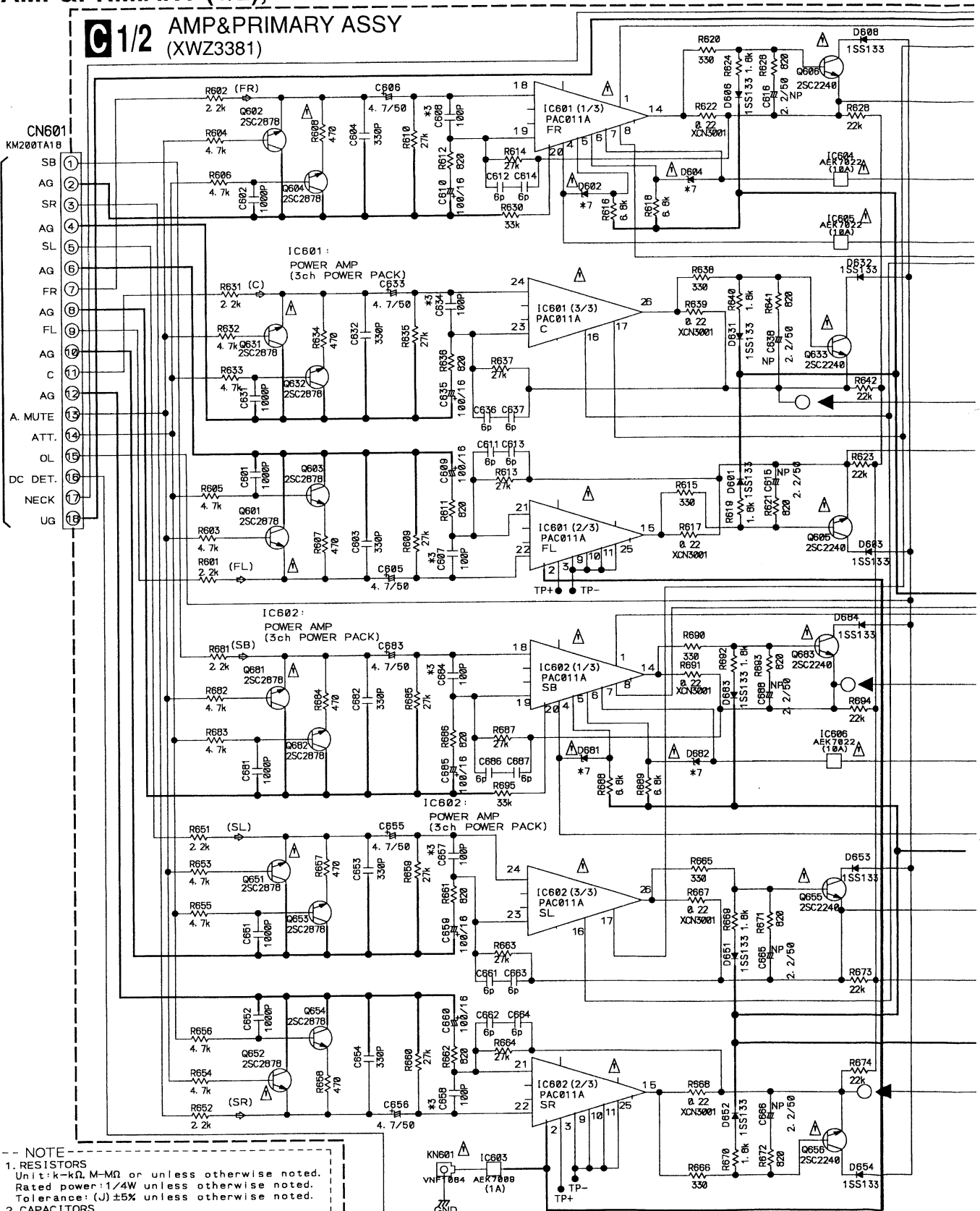
A

B

C

D

C CN253



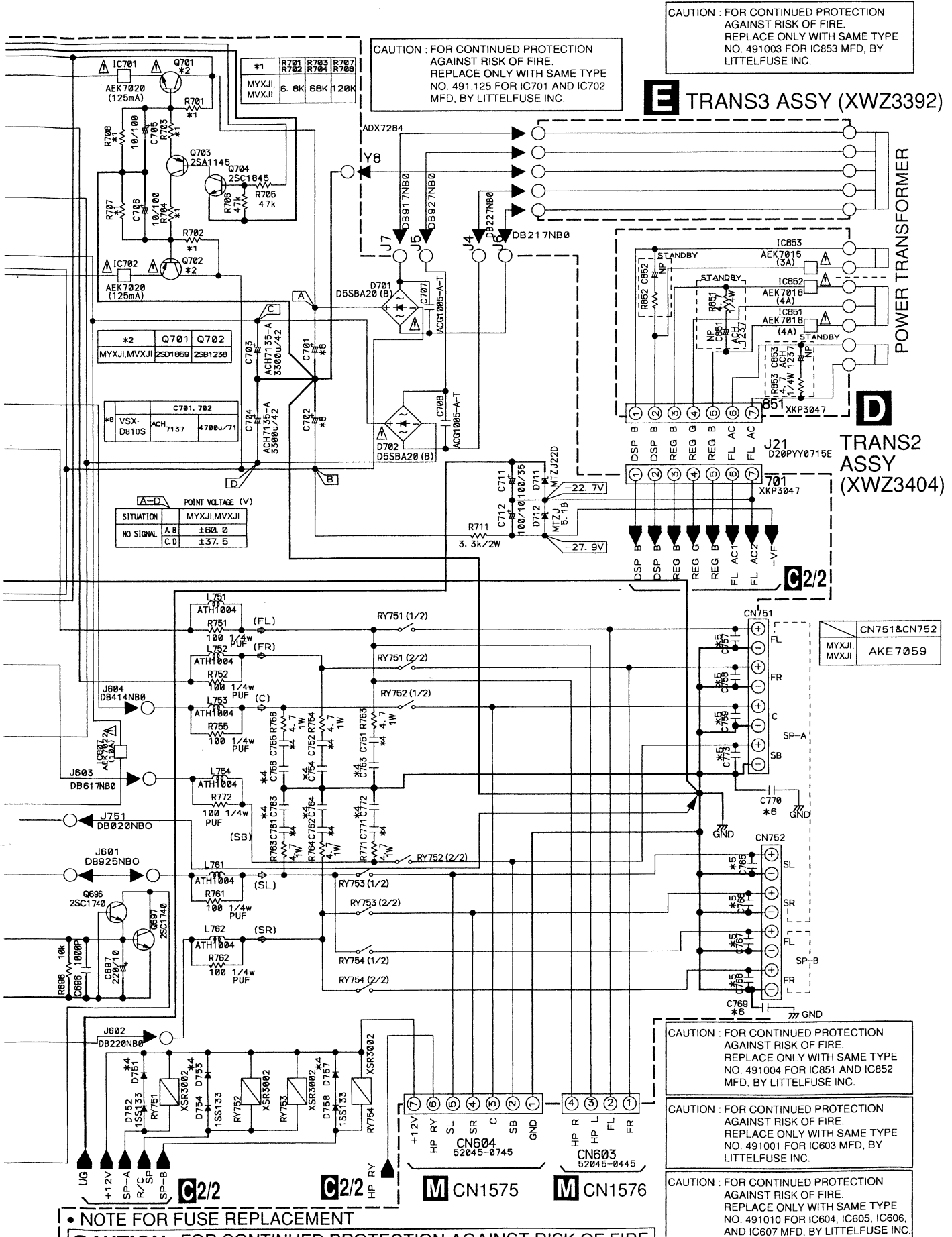
NOTE
 1. RESISTORS
 Unit: k-kΩ, M-MΩ or unless otherwise noted.
 Rated power: 1/4W unless otherwise noted.
 Tolerance: (J) ±5% unless otherwise noted.
 2. CAPACITORS
 Unit: p-pF or μF unless otherwise noted.
 Ratings: Capacity (μF) / Voltage (V) unless otherwise noted.
 Rated Voltage: 50V except for electrolytic capacitors.
 3. DIODES
 Indicated in 1SS133-T

*3	C607, 608, 634, C657, 659, 694	MYXJEW, MYXJGR, MVXJI
*4	C751, 752, 755, 761, 762, 771, 783, 784, 788, 793, 794, 772, 751, 753, 757	MYXJI, MVXJI 0.22 YA 1SS133-T

*5	MYXJI, MVXJI	CQMB A 472J50-T
*6	MYXJI, MVXJI	CKPUY8102K
*7	MYXJI, MVXJI	MTZJB. 2A

Q605, 608, 633, 655, 658, 683: OVERLOAD DETECTOR
 Q686, 687: () DC OUTPUT DETECTOR
 ⇨: AUDIO SIGNAL ROUTE

VSX-D810S



C1/2 **D** **E**

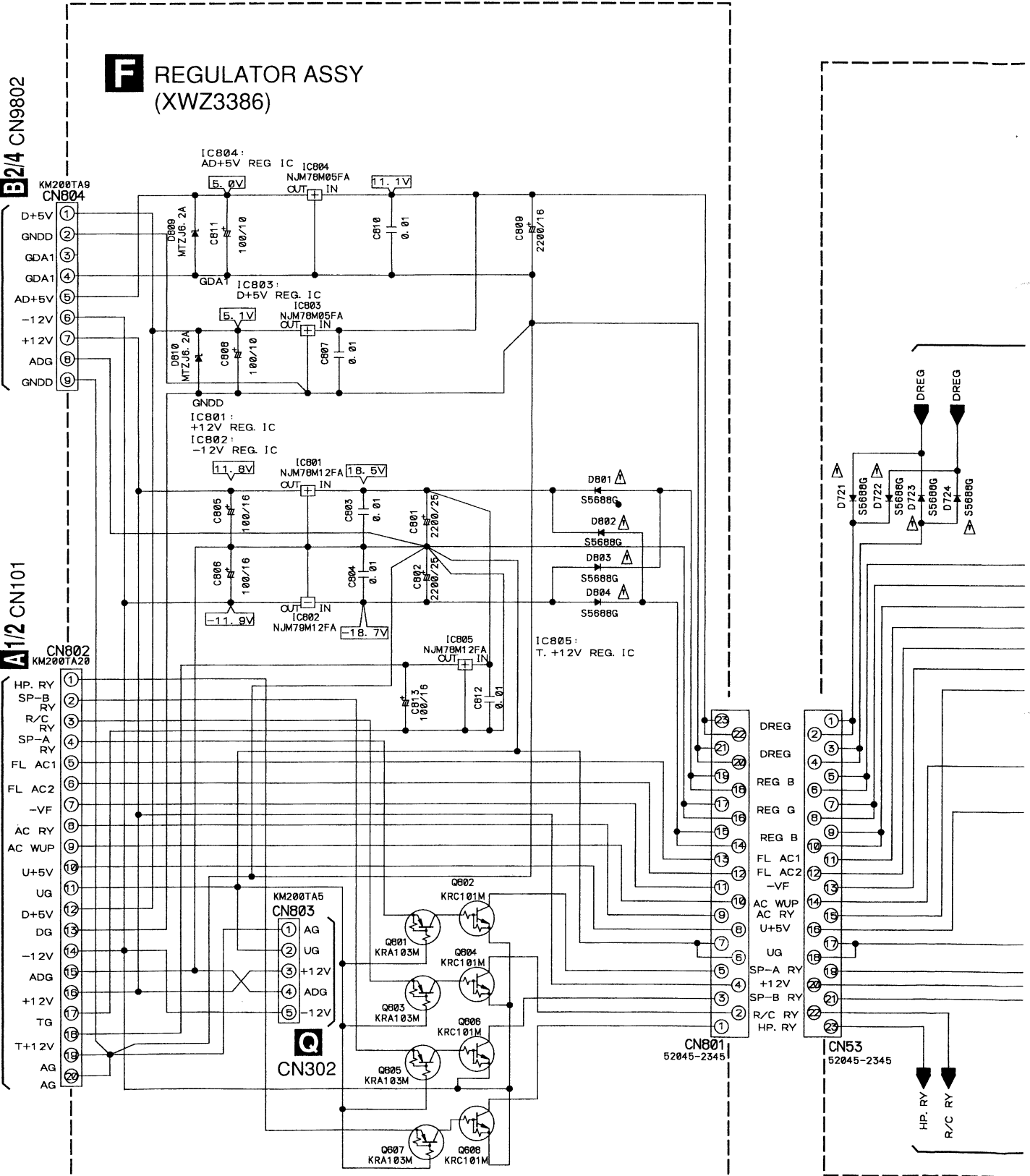
3.10 AMP&PRIMARY (2/2), REGULATOR, AMP INPUT, TRANS1 and TRANS4 ASSYS

A

B

C

D



FAN MOTOR

G AMP INPUT ASSY (XWZ3389)

G2/2 AMP&PRIMARY ASSY (XWZ3381)

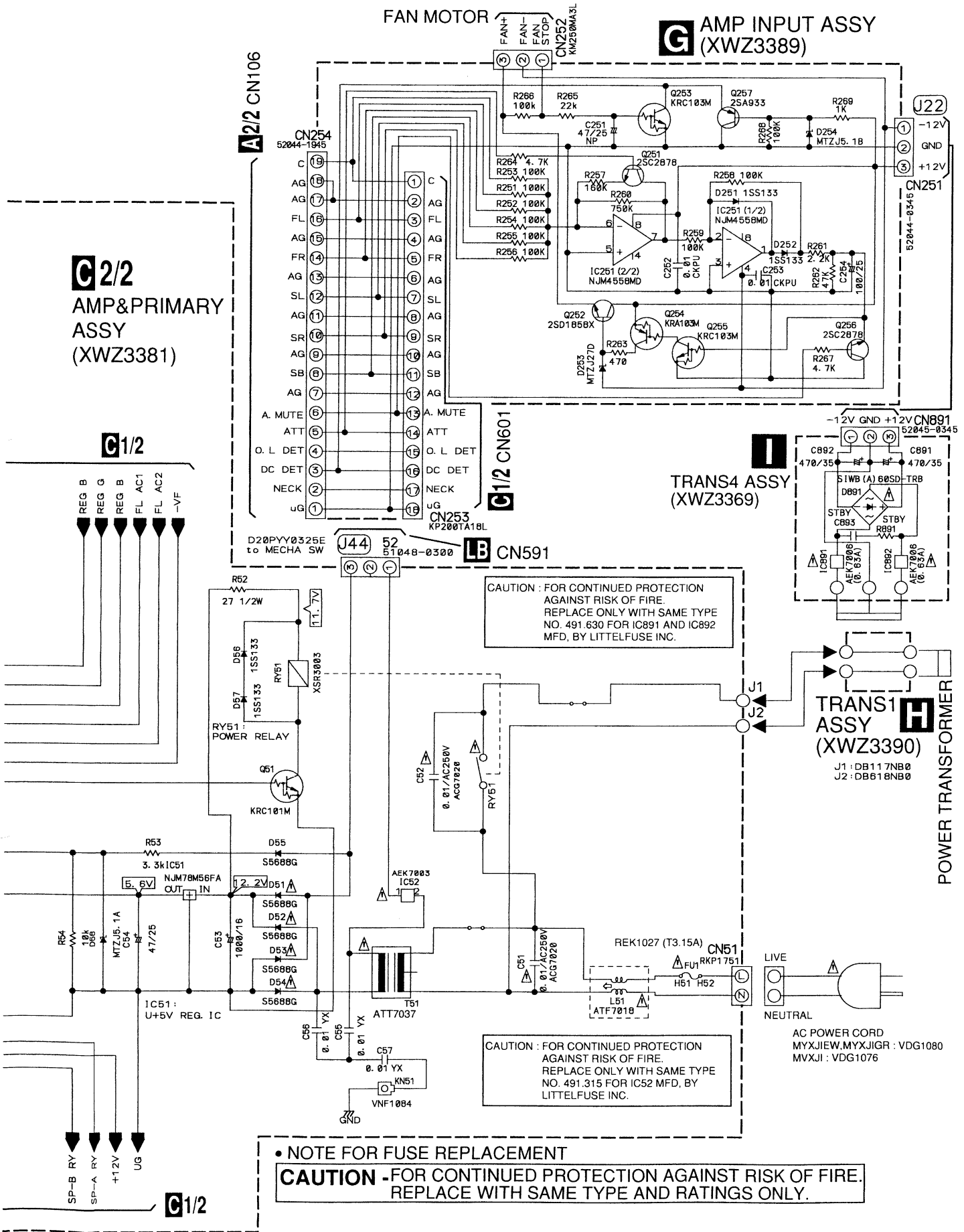
G1/2

I TRANS4 ASSY (XWZ3369)

LB CN591

H TRANS1 ASSY (XWZ3390)

POWER TRANSFORMER



CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.630 FOR IC891 AND IC892 MFD, BY LITTELFUSE INC.

CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.315 FOR IC52 MFD, BY LITTELFUSE INC.

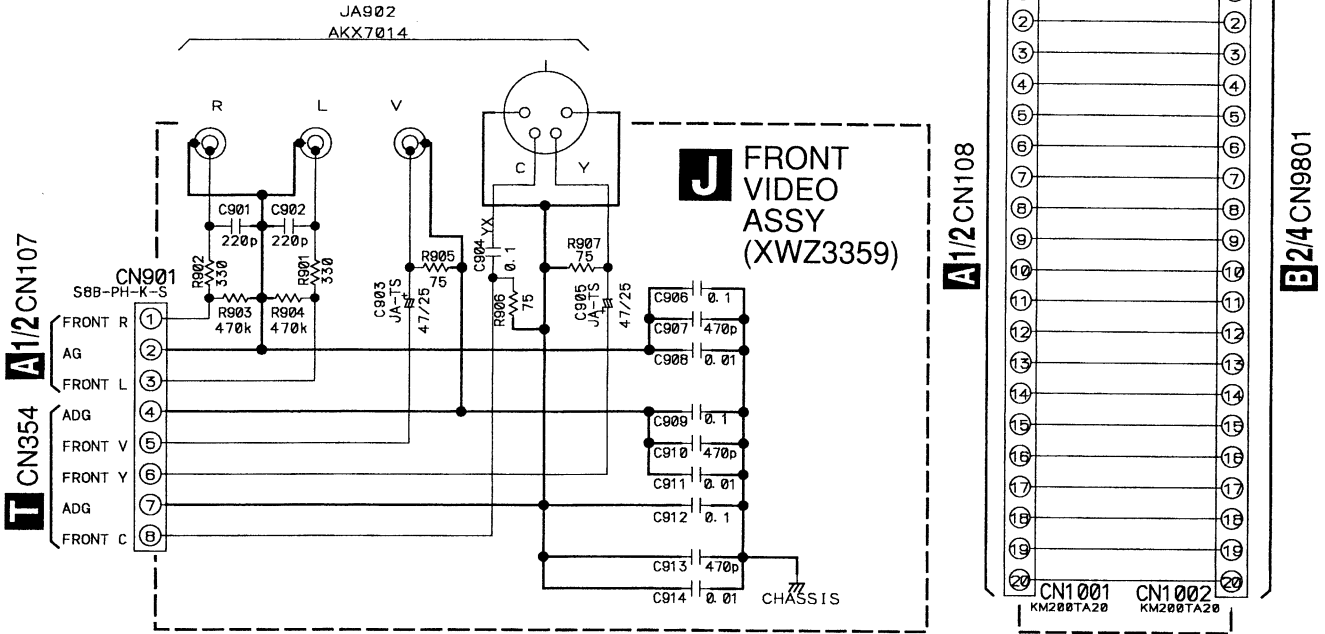
• NOTE FOR FUSE REPLACEMENT
CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

C2/2 G H I

3.11 FRONT VIDEO, D TO O, H. P., MECHA SW and COMPONENT ASSYS

A

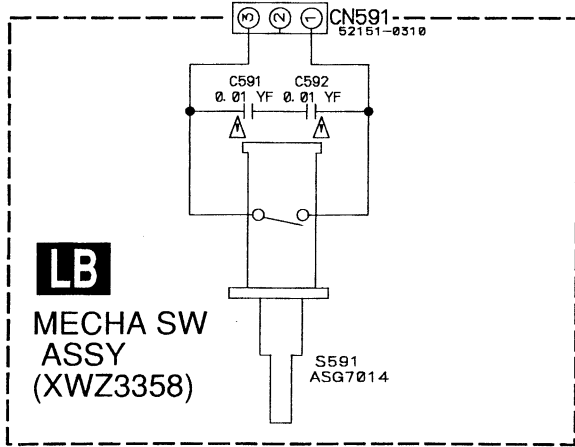
K D TO O ASSY (XWZ3368)



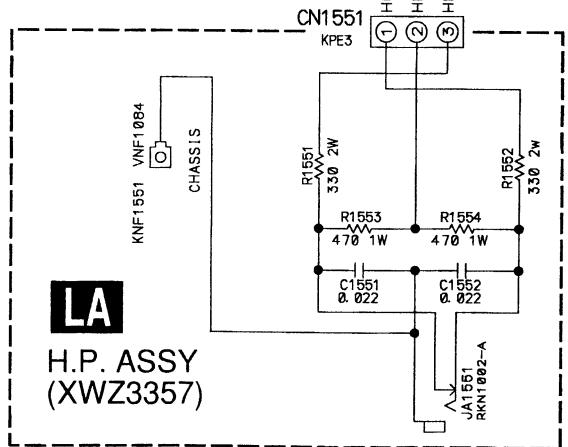
B

C

C2/2 J44



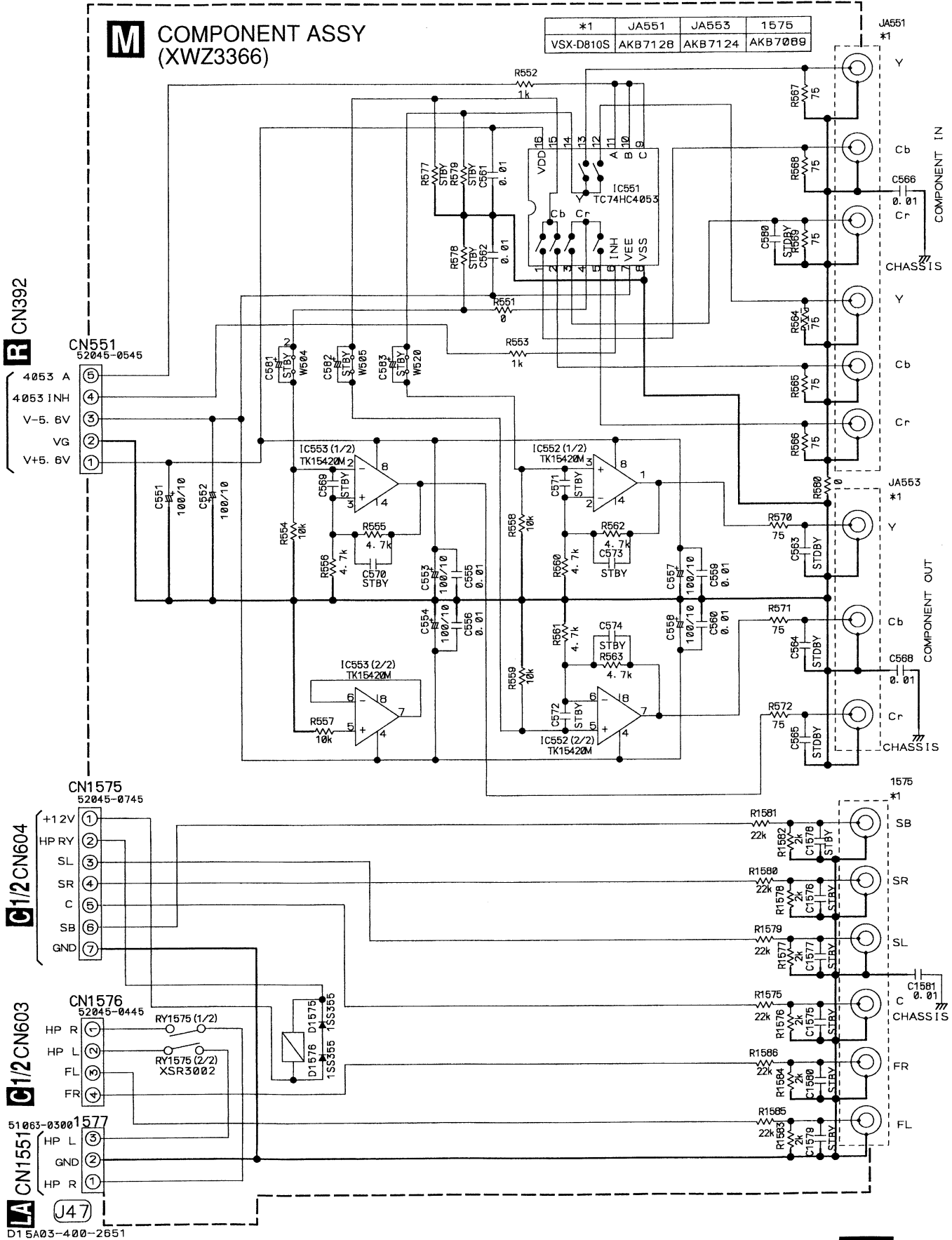
M 1577



D

M COMPONENT ASSY
(XWZ3366)

*1	JA551	JA553	1575
	VSX-D810S	AKB712B	AKB7124
			AKB7089

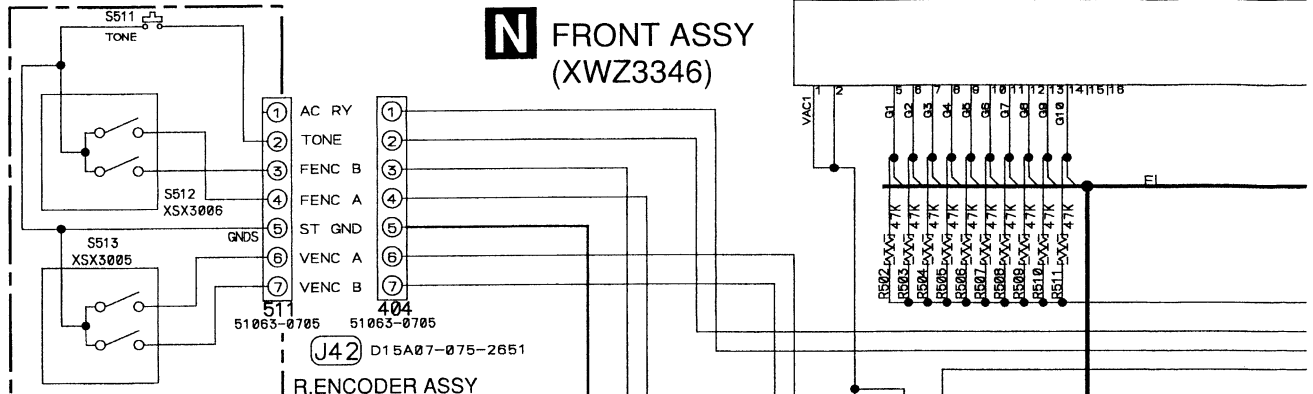


LA CN1551 51063-0300 1577
HP L ⑤
GND ④
HP R ③
① J47
D15A03-400-2651



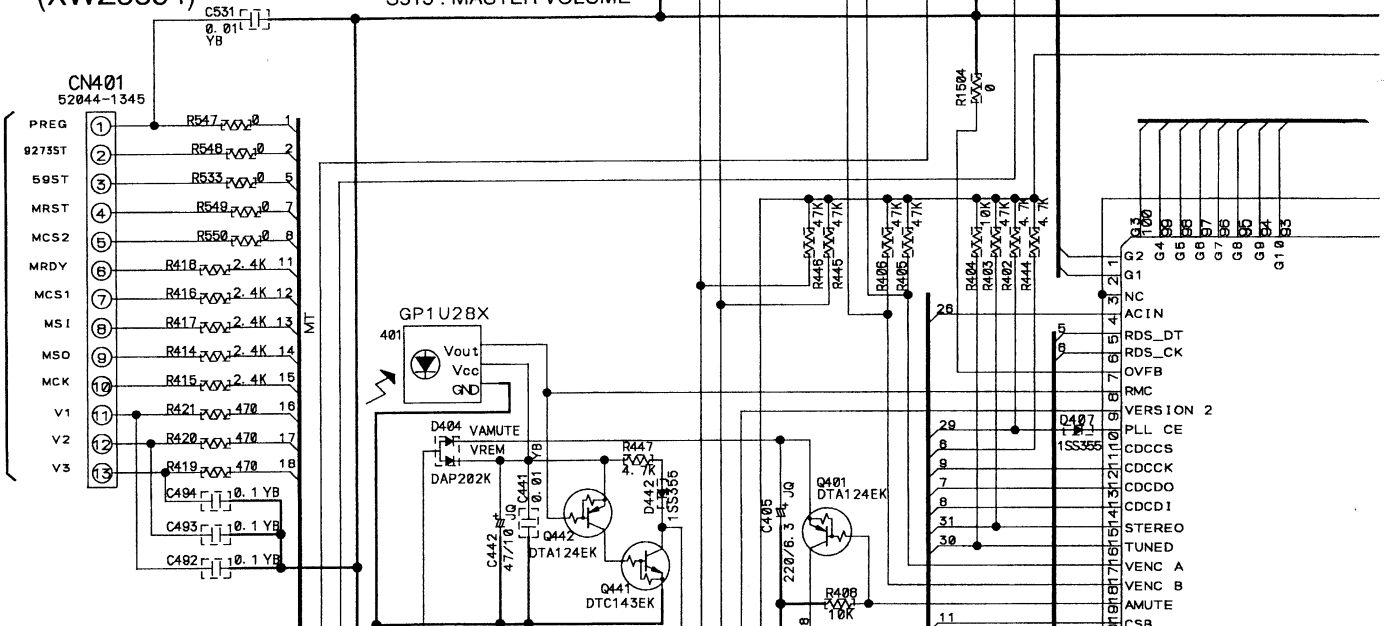
3.12 FRONT, R. ENCODER and POWER SW ASSYS

A

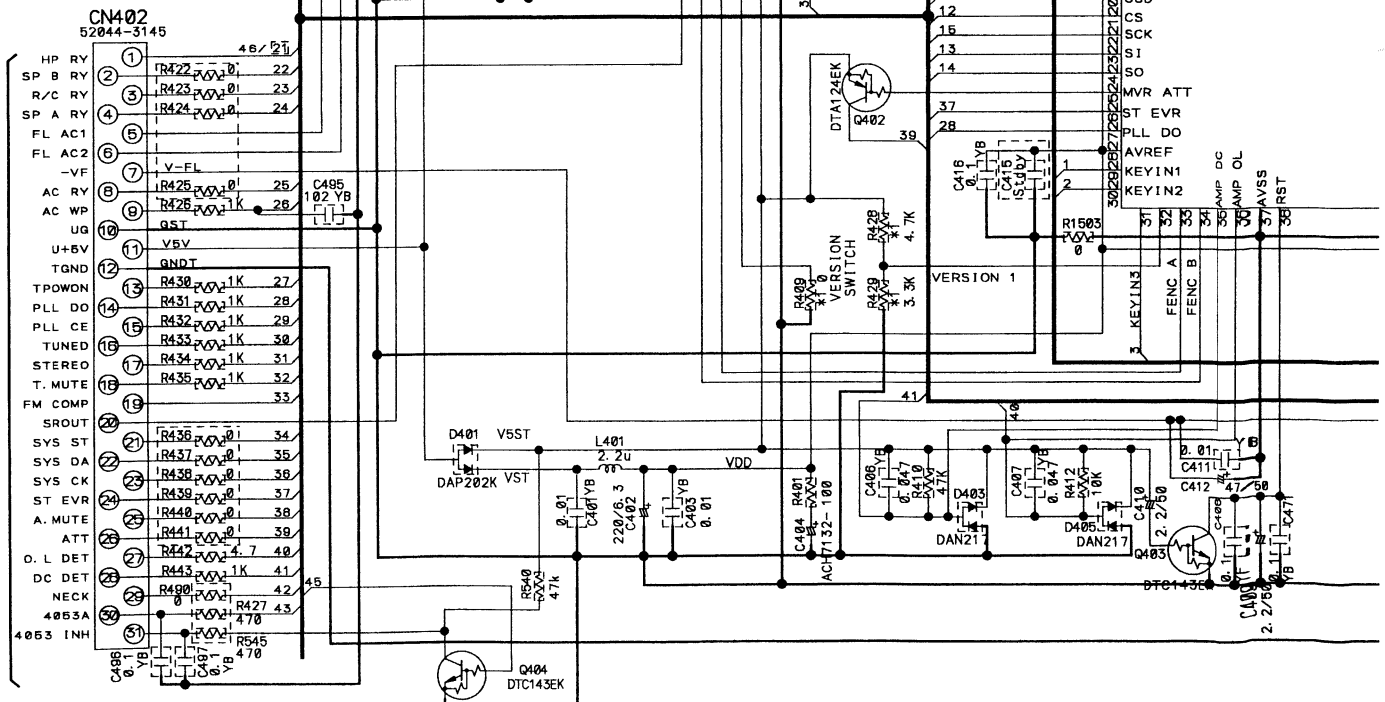


R. ENCODER ASSY (XWZ3354)
 S511 : TONE
 S512 : MULTI JOG DIAL
 S513 : MASTER VOLUME

B

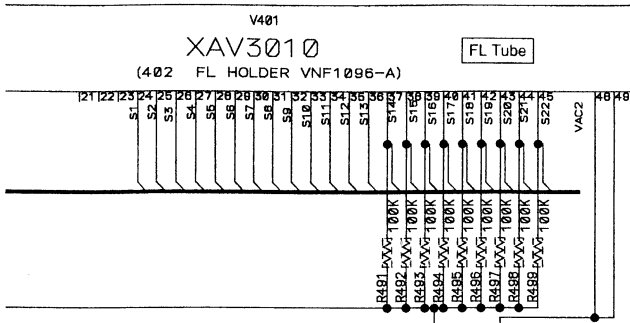


C

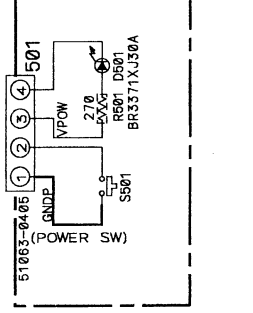
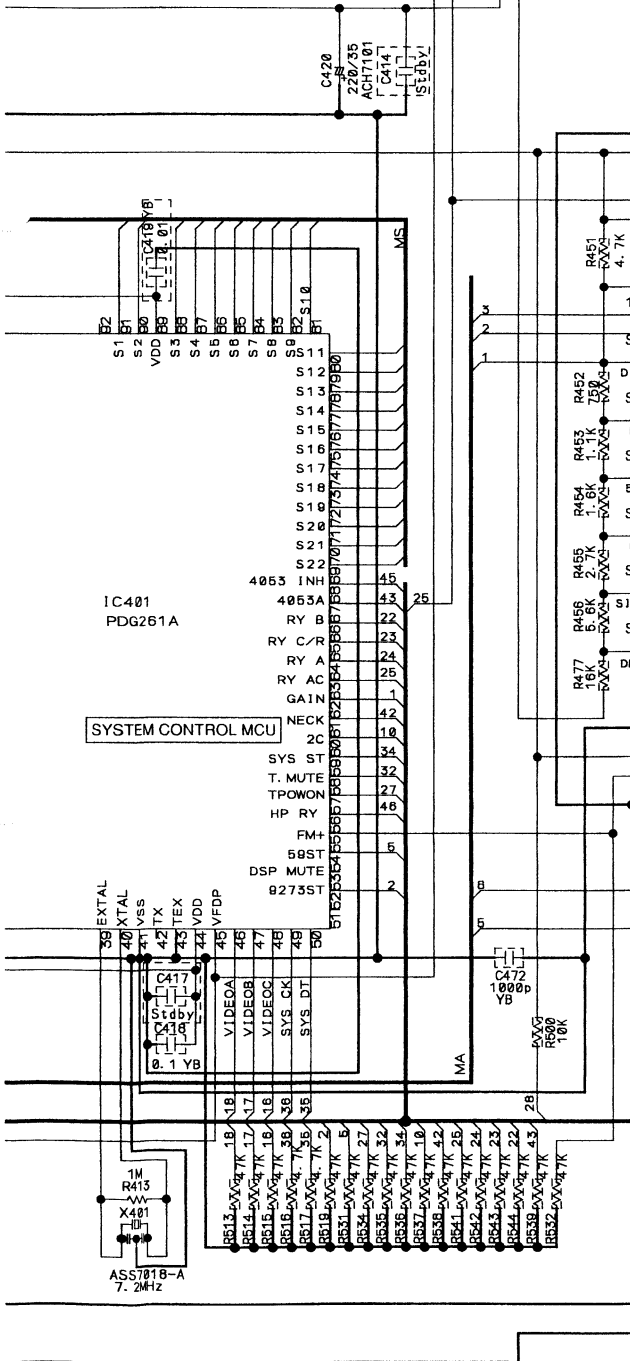


D





- NOTE---
- RESISTORS
Unit: k-K, M-M or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J)±5% unless otherwise noted.
 - CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity (μF)/Voltage (V) unless otherwise noted.
Rated Voltage: 50V except for electrolytic capacitors.
J:CEJQ
 - DIODES
Indicated in 1SS355-TR8.
 - TACT SWITCHES
Indicated in ASG1051.



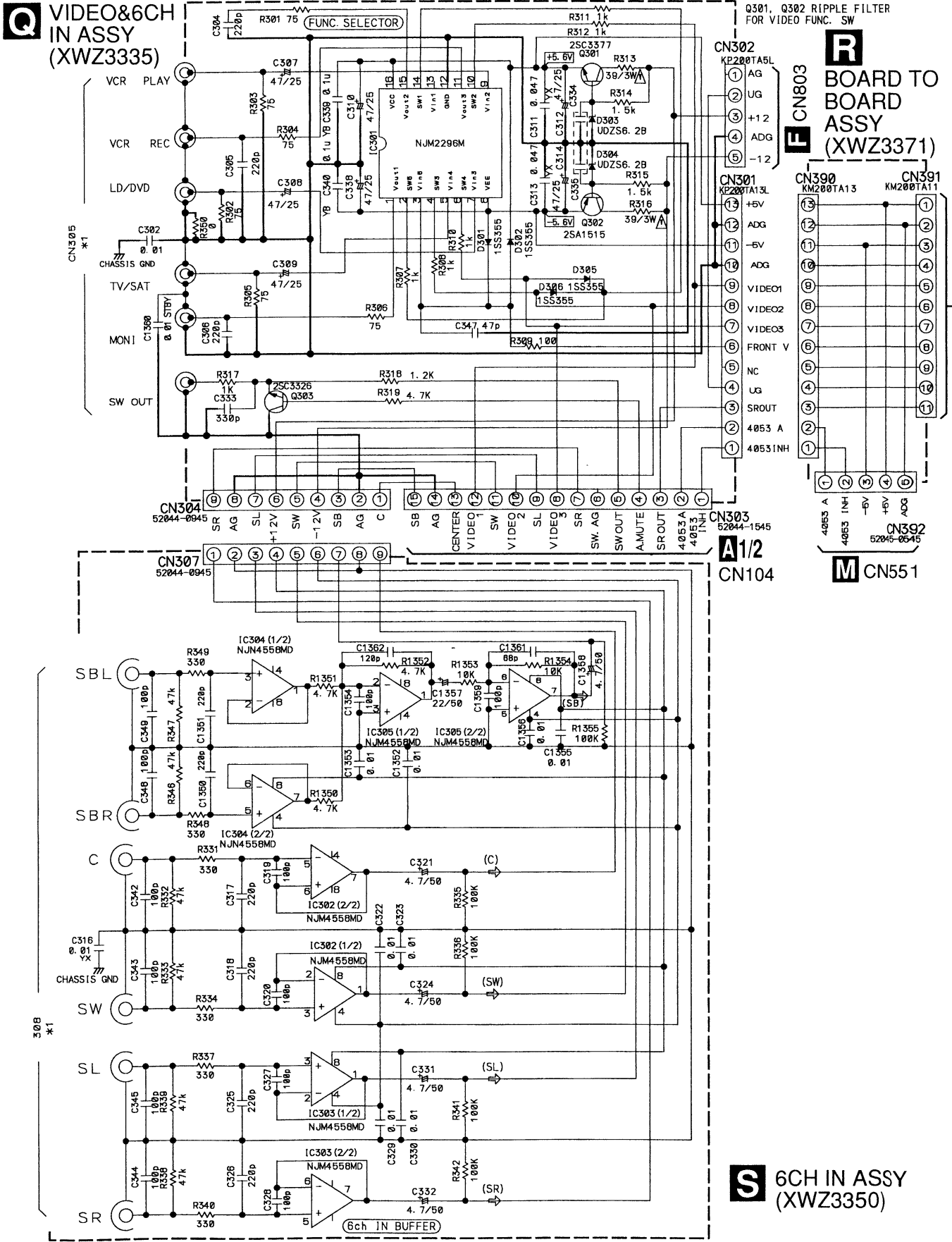
POWER SW ASSY
S501: POWER
STANDBY/ON

- FRONT ASSY
- S451: DIRECT
 - S452: MONITOR
 - S453: DVD 5.1ch
 - S454: DSP MODE
 - S455: SIGNAL SELECT
 - S456: DD/DTS
 - S457: MIDNIGHT
 - S458: SPEAKER
 - S459: MPX
 - S460: BAND
 - S461: MEMORY
 - S462: CLASS
 - S463: TUNING (+)
 - S464: TUNING (-)
 - S465: STATION (+)
 - S466: RF ATT
 - S467: CHARA SEARCH
 - S468: EON
 - S476: STATION (-)

MODEL	R407	R408	R428	R429
MYXJEW, MYXJGR, MVXJI	none	0	4.7K	3.3K



3.13 VIDEO&6CH IN, BOARD TO BOARD, 6CH IN and S. VIDEO ASSYS



32 **Q R S**

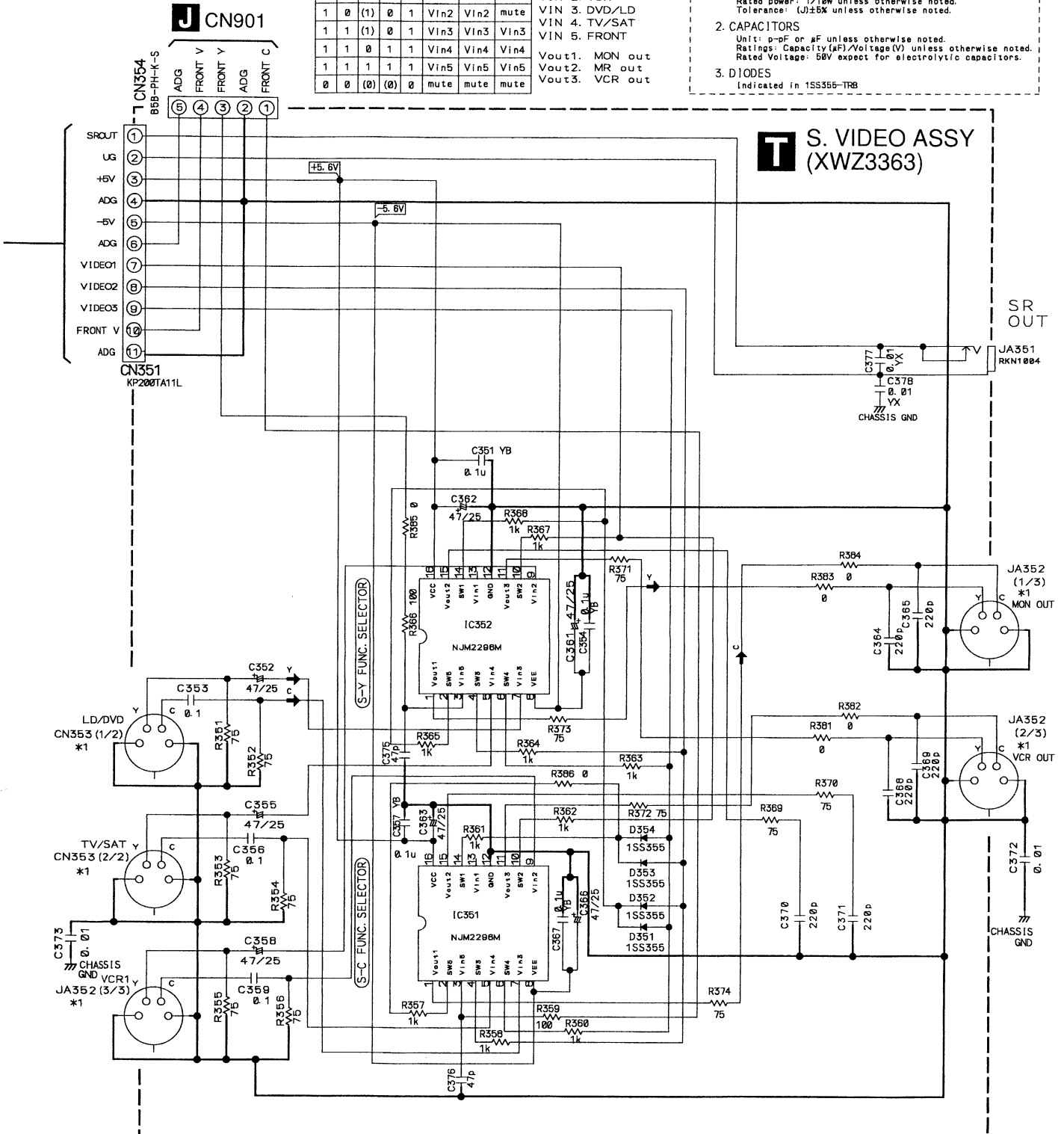
NJM2296D control port status

SW1	SW2	SW3	SW4	SW5	Vout1	Vout2	Vout3
1	0	(1)	0	1	Vin2	Vin2	mute
1	1	(1)	0	1	Vin3	Vin3	Vin3
1	1	0	1	1	Vin4	Vin4	Vin4
1	1	1	1	1	Vin5	Vin5	Vin5
0	0	(0)	(0)	0	mute	mute	mute

VIN 2. VCR
 VIN 3. DVD/LD
 VIN 4. TV/SAT
 VIN 5. FRONT
 Vout1. MON out
 Vout2. MR out
 Vout3. VCR out

NOTE

- RESISTORS
 Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
 Rated power: 1/10W unless otherwise noted.
 Tolerance: (J)±5% unless otherwise noted.
- CAPACITORS
 Unit: p-pF or μF unless otherwise noted.
 Ratings: Capacity (μF)/Voltage(V) unless otherwise noted.
 Rated Voltage: 50V expect for electrolytic capacitors.
- DIODES
 Indicated in 1SS355-TR8



*1	CN305	308	JA352	CN353
VSX-D810S	AKB7123	AKB7089	XKP3045	XKP3044

→ VIDEO SIGNAL FLOW
 ⇄ AUDIO SIGNAL FLOW



3.14 FM/AM TUNER MODULE

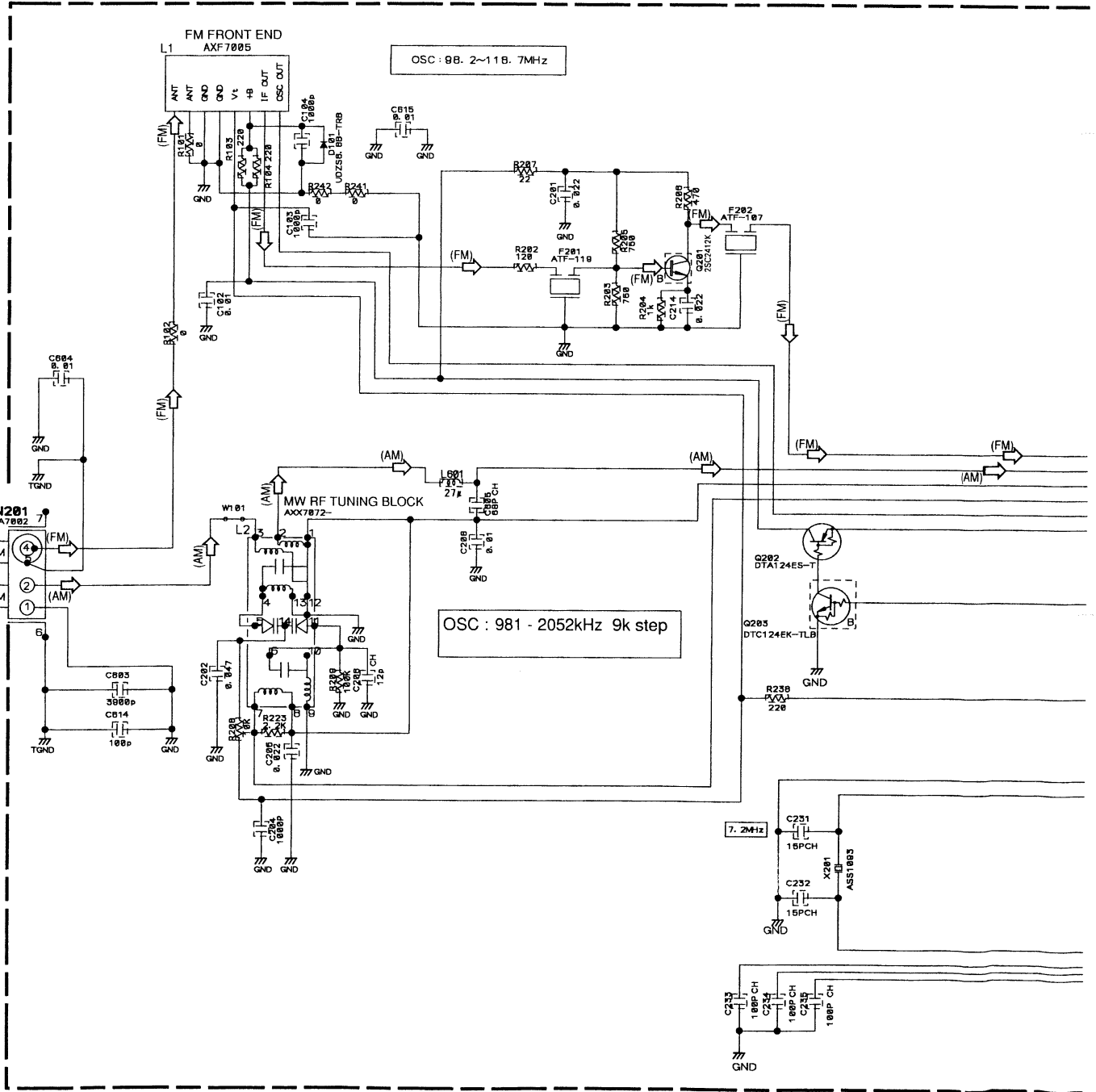
A

B

C

D

U FM/AM TUNER MODULE (AXQ7232)



Notes

1. RESISTORS

Indicated in Ω, 1/16W±5% Tolerance unless otherwise noted K;KΩ, M;MΩ.

2. CAPACITORS

Indicated in Capacity (μF)/VOLTAGE (V) unless otherwise noted P;PF.

3. DIODES

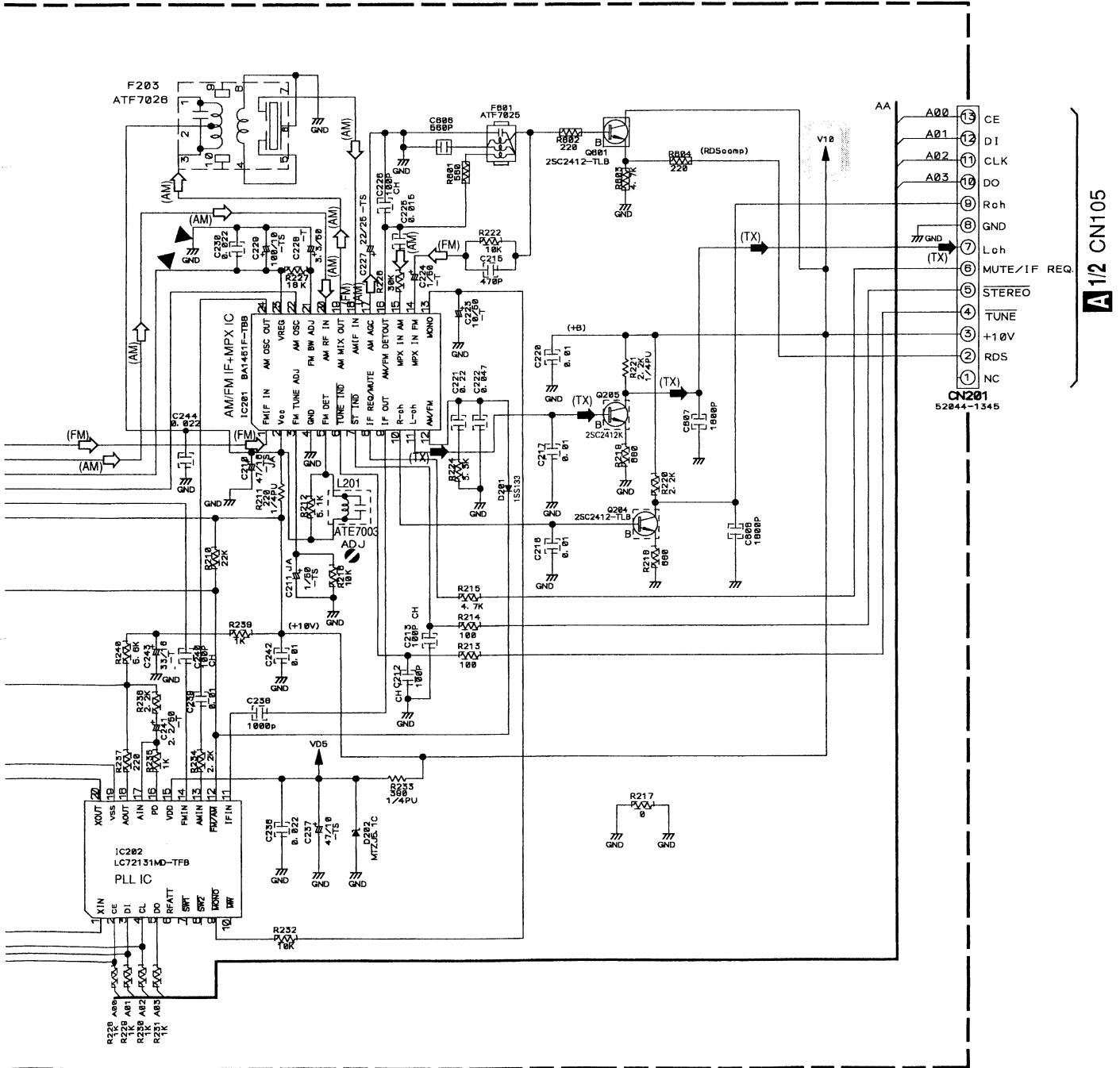
No mark diode is 1SS133.

⊙ : The power supply is shown with the marked box.

➡ (TX) : AUDIO SIGNAL ROUTE (TUNER)

➡ (AM) : AM SIGNAL ROUTE

➡ (FM) : FM SIGNAL ROUTE



A 1/2 CN105

A

B

C

D



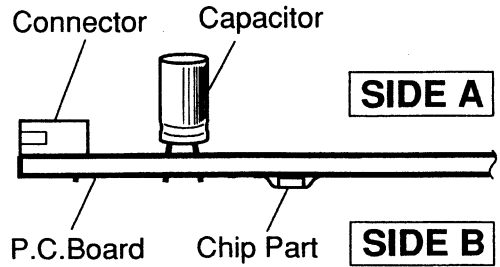
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

- A
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.

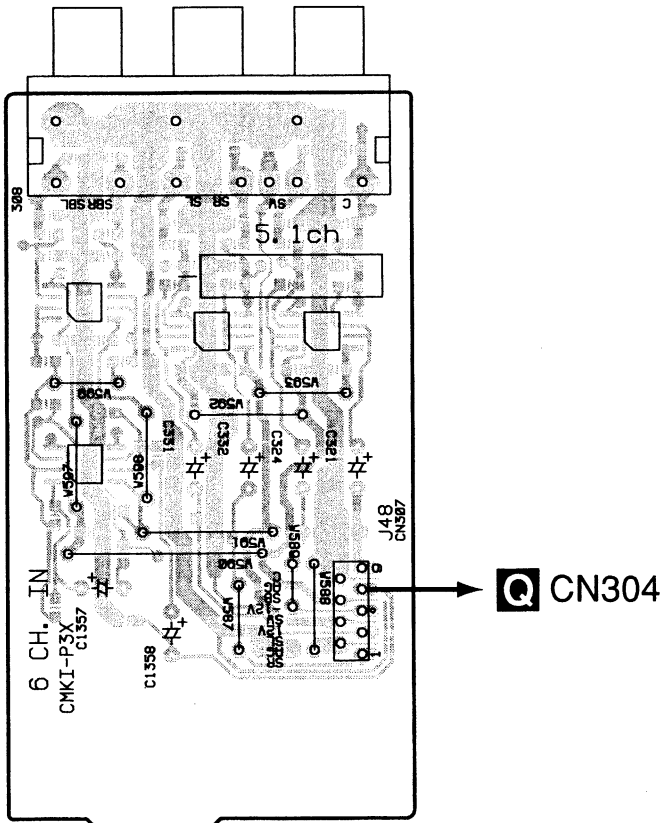
Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
4. View point of PCB diagrams.



4.1 6CH IN ASSY

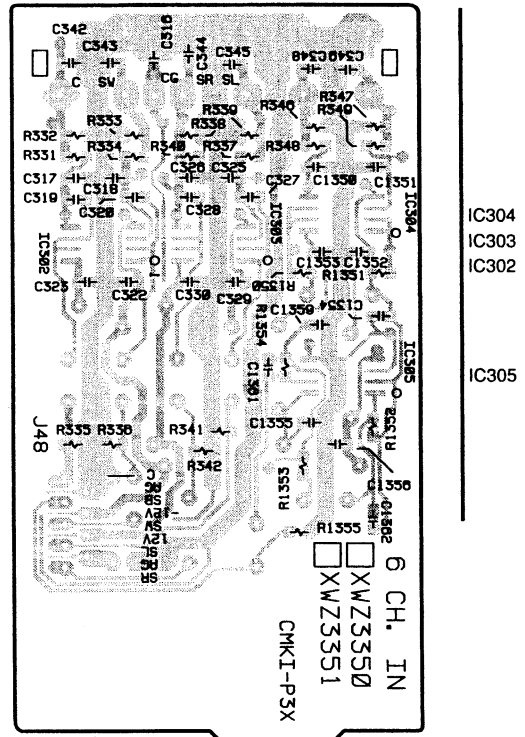
S 6CH IN ASSY



(XNP3032-B)

SIDE A

S 6CH IN ASSY

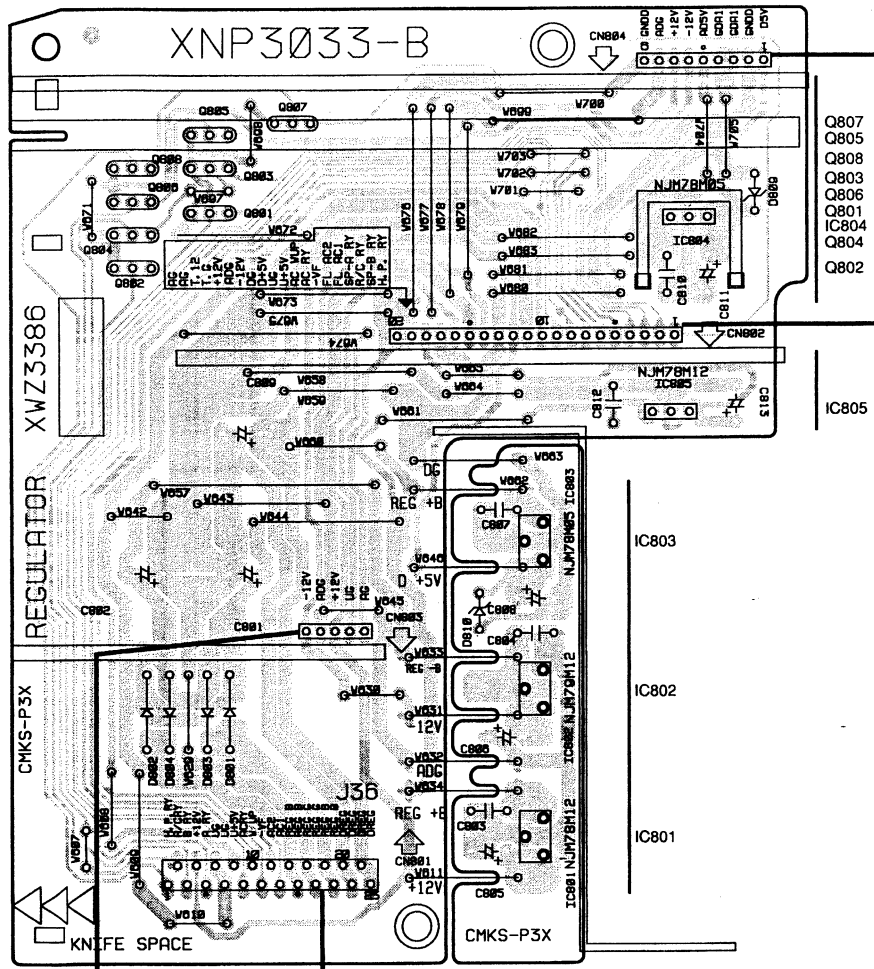


(XNP3032-B)

SIDE B

4.2 TRANS2, TRANS3, REGULATOR, TRANS1 and TRANS4 ASSYS

F REGULATOR ASSY



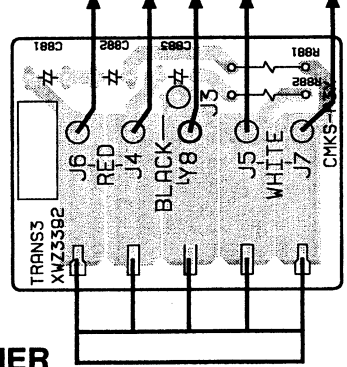
B CN9802

(XNP3033-B)
SIDE A

A CN101

E TRANS3 ASSY

C J6 J4 J3 J5 J7



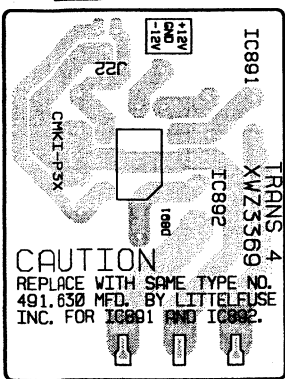
POWER TRANSFORMER

Q CN302

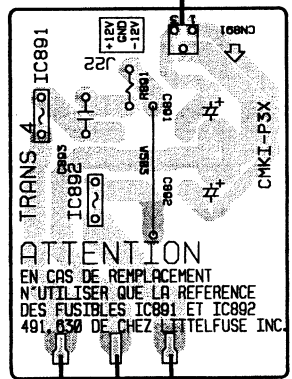
C CN53

I TRANS4 ASSY

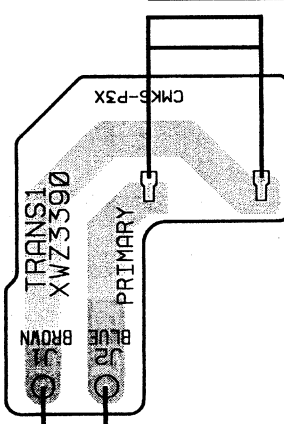
G CN251



(XNP3032-B)
SIDE B

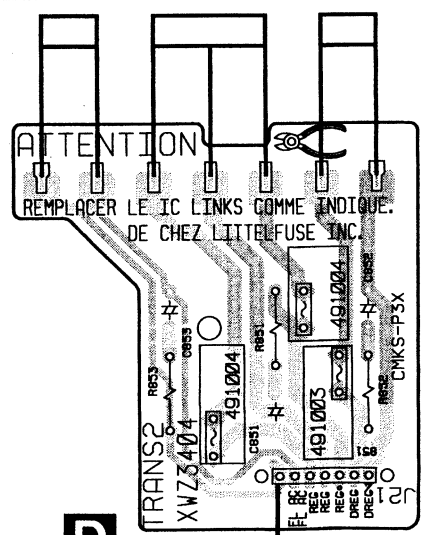


(XNP3032-B)
SIDE A



G J1 J2

H



D

TRANS1 ASSY TRANS2 ASSY

C 701

D E F H I

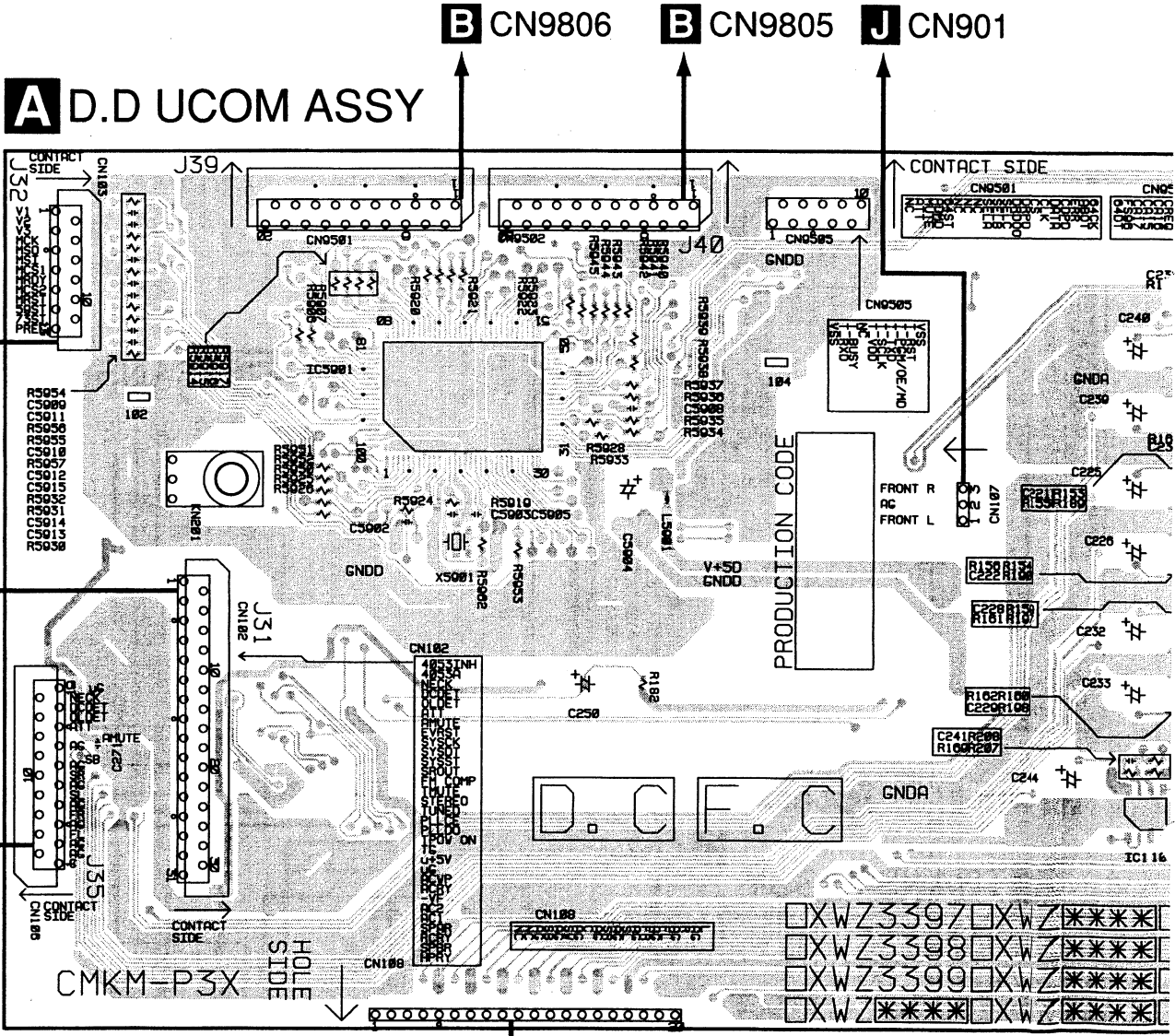
4.3 D.D UCOM ASSY

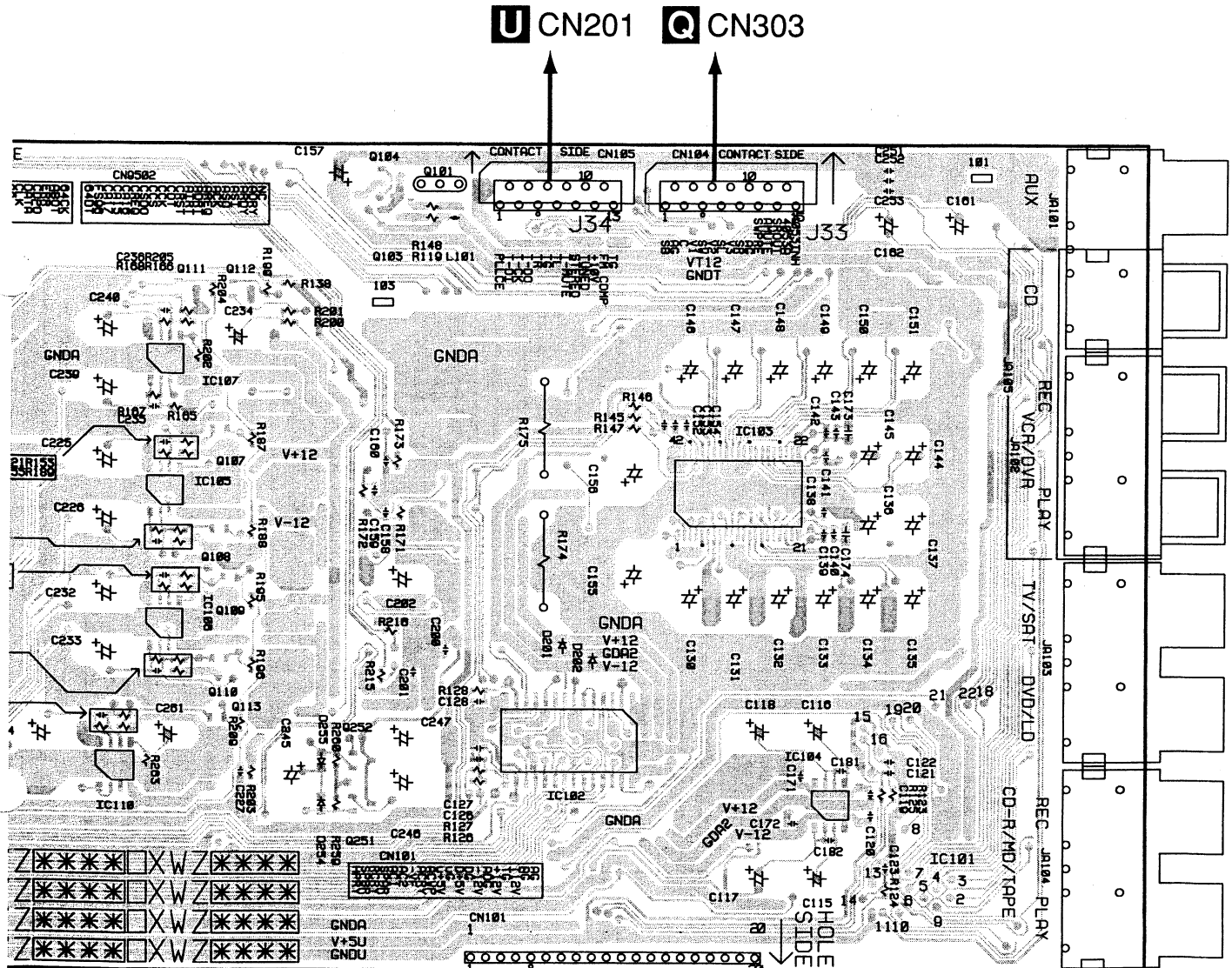
A

B

C

D





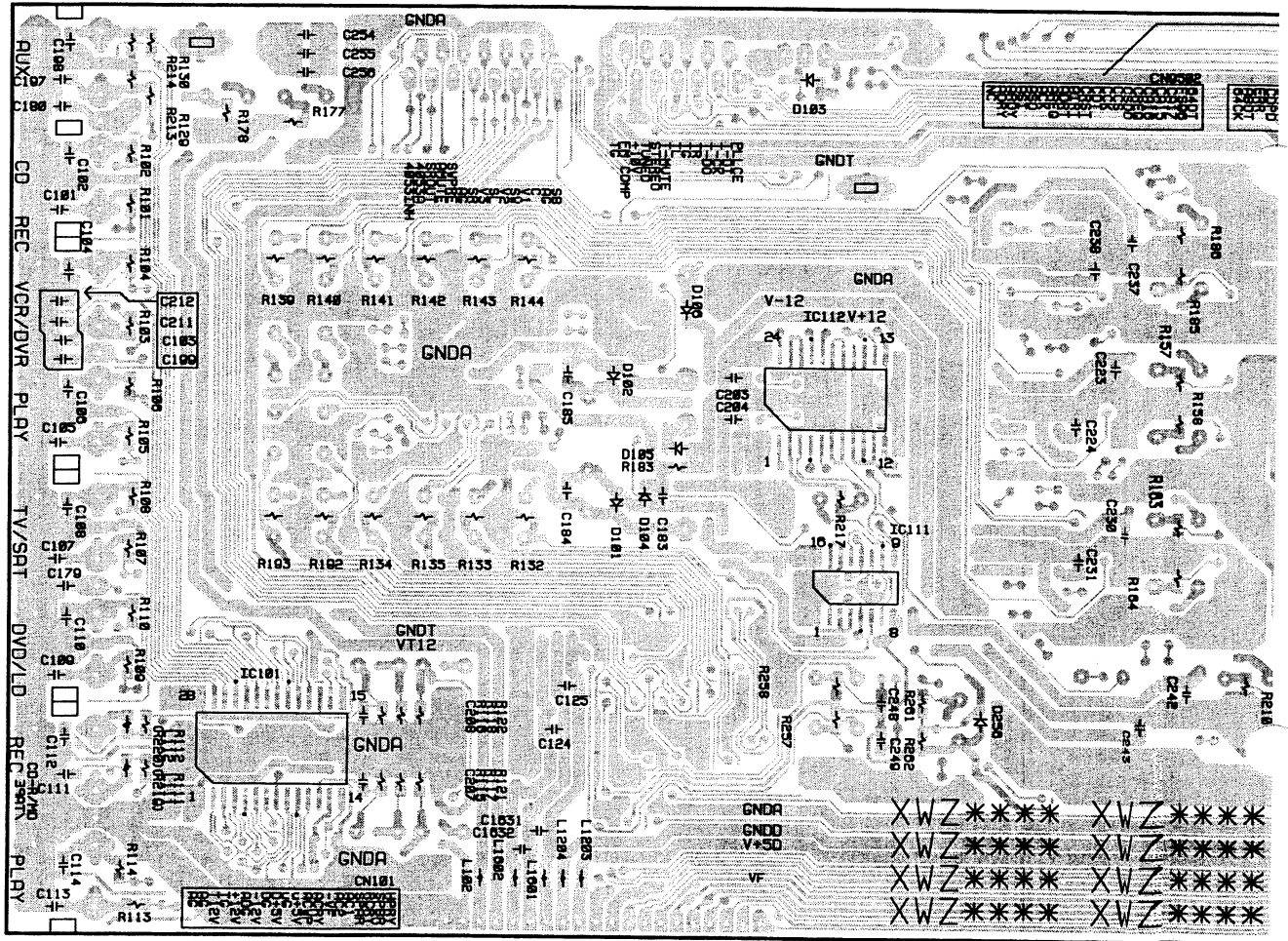
U CN201 **Q** CN303

F CN802

(XNP3034-B)
SIDE A

IC107 Q111 Q112 Q103 Q104 Q101
IC105 Q107 Q108
IC106 Q109
IC110 Q110 Q251 Q252 IC102

A D.D UCOM ASSY



IC101

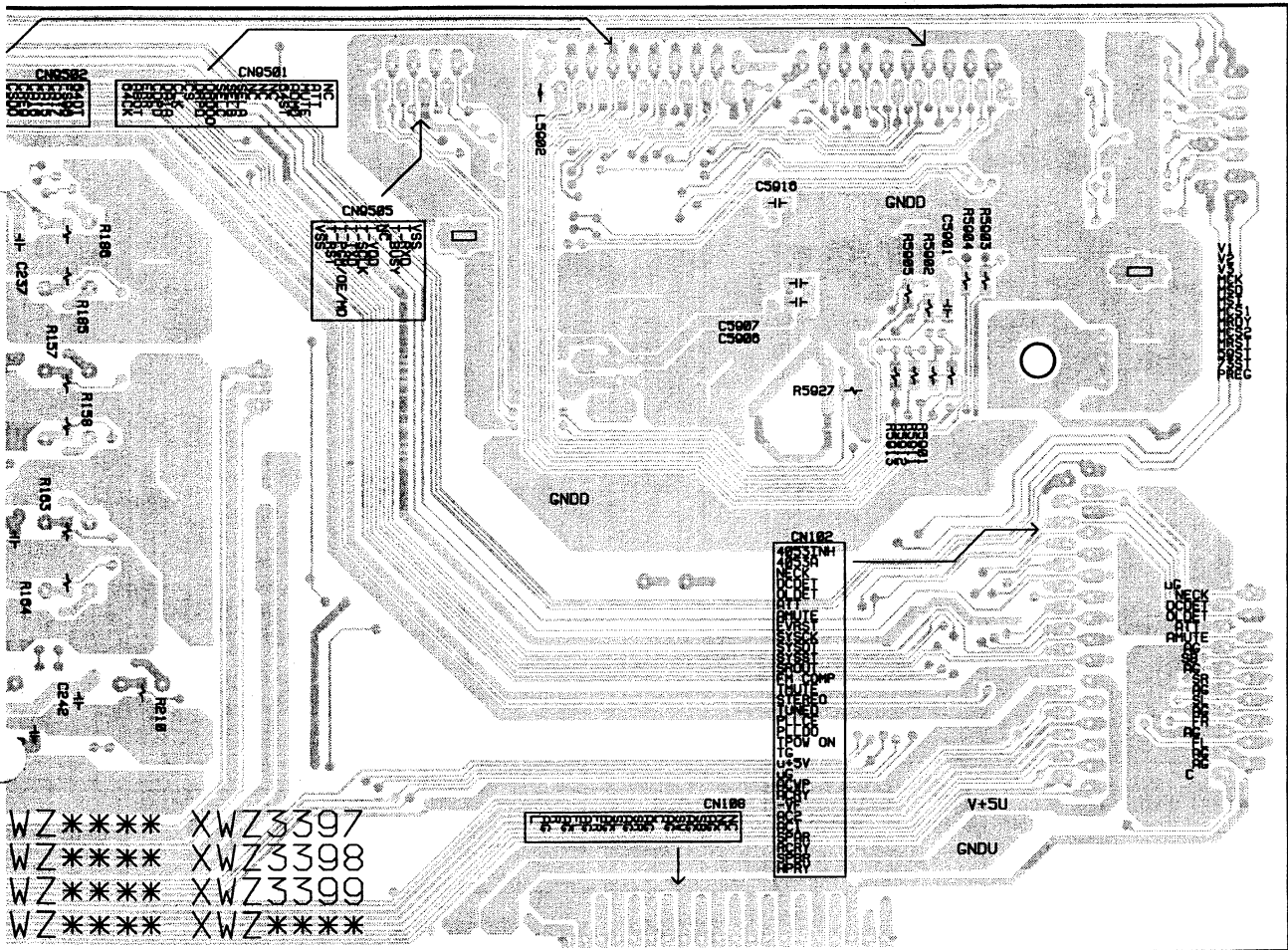
IC112 IC111

A

B

C

D



(XNP3034-B)

SIDE B

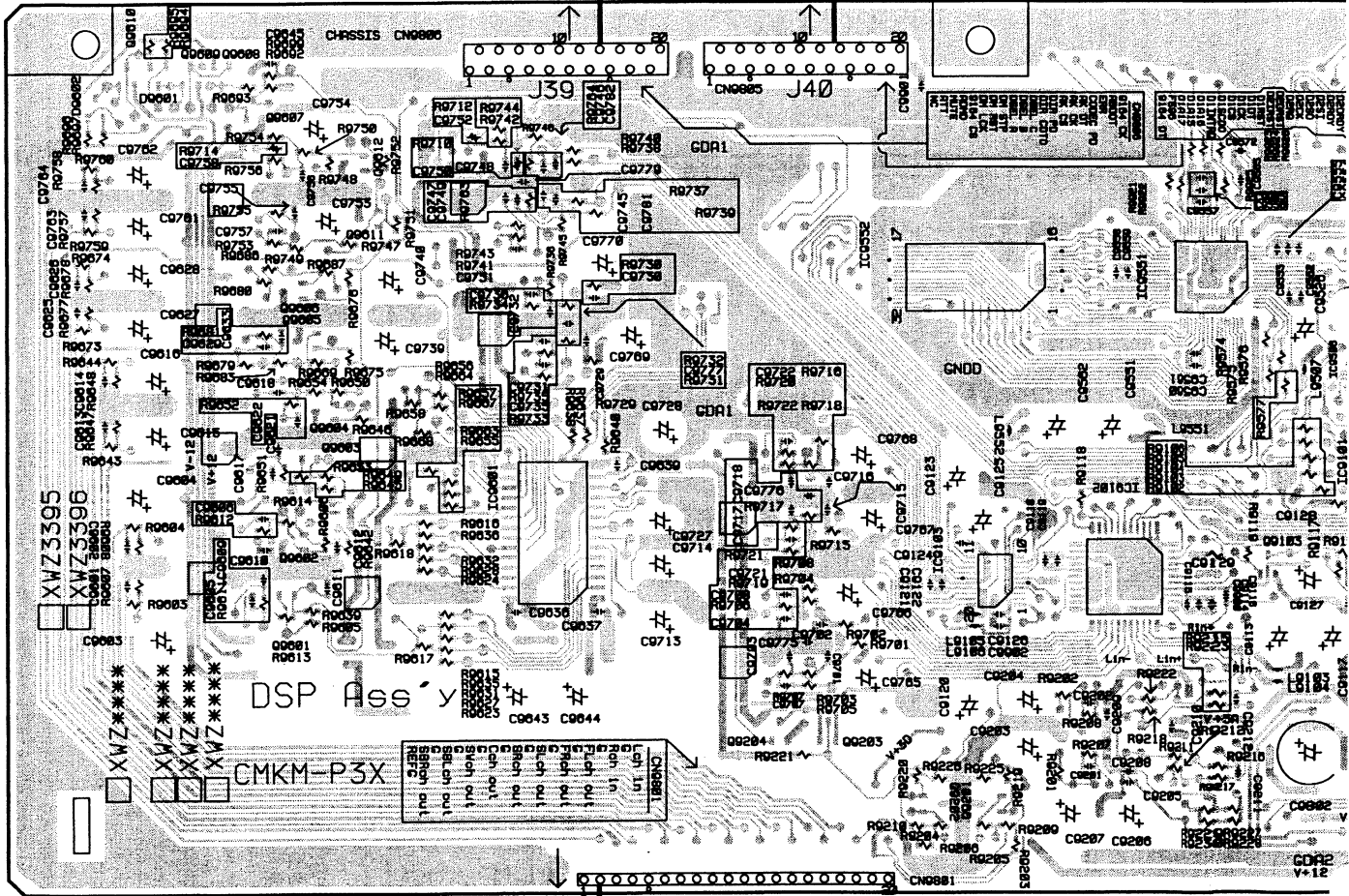
4.4 D.D DSP and D TO O ASSYS

A

A CN9501

A CN9502

B D.D DSP ASSY



B

C

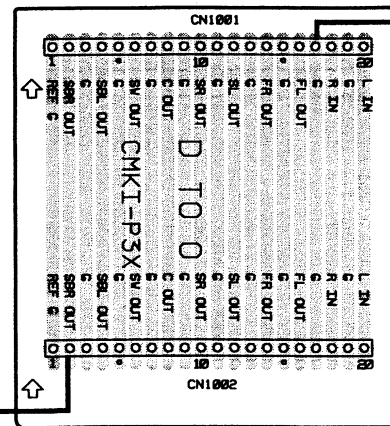
Q9610 Q9609 Q9608 Q9607 Q9612
 Q9605 Q9606 Q9611 IC9601
 Q9603 Q9604
 Q9601 Q9602

IC9552 IC9551
 IC9103 IC9102 Q9103 Q9104

Q9204 Q9203

K D TO O ASSY

A CN108



(XNP3032-B)

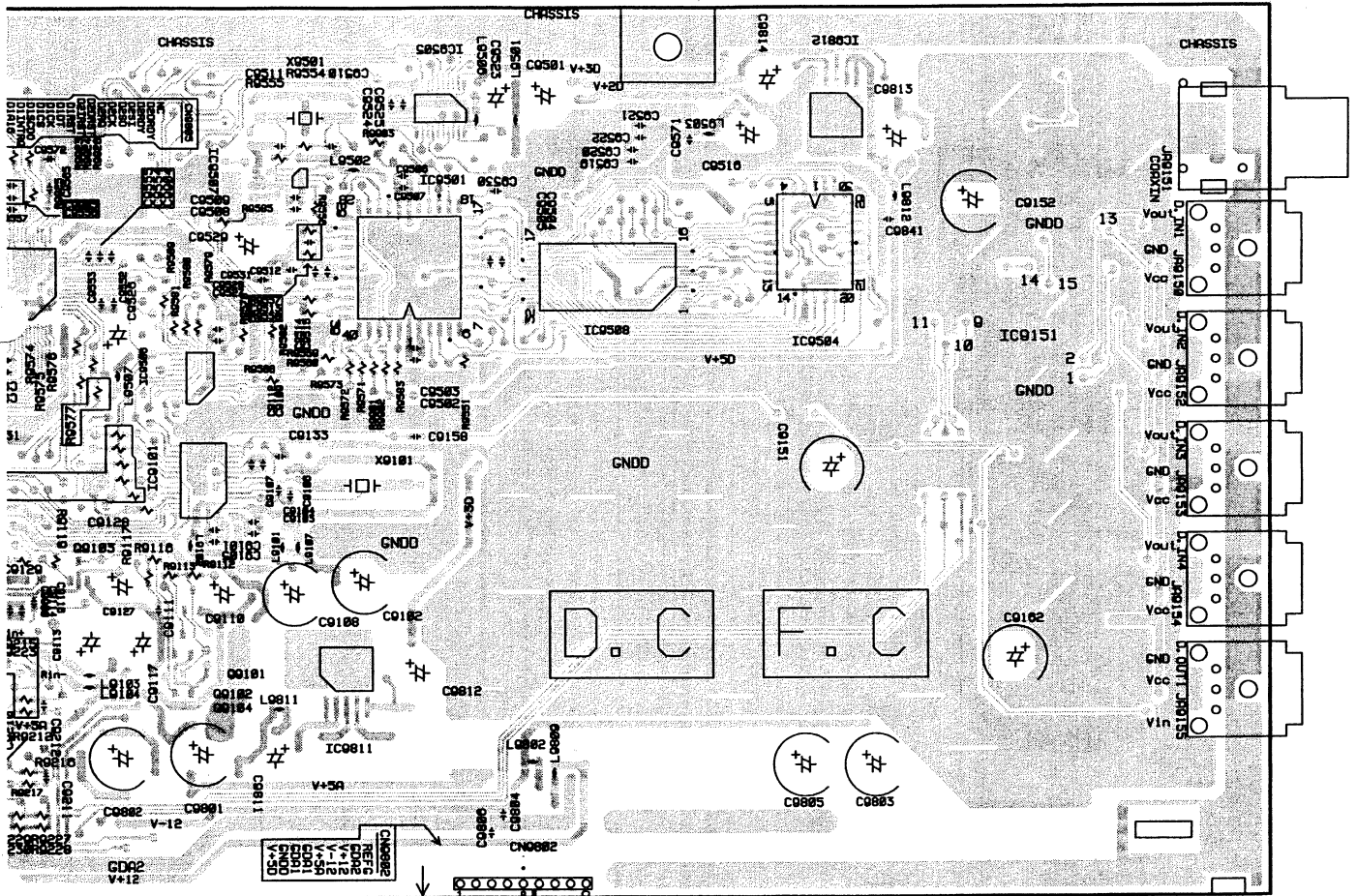
SIDE A

D

A

B

C



1551 IC9506 IC9101 IC9507 IC9505 IC9812 (XNP3034-B)
 Q9103 Q9104 Q9102 Q9101 IC9501 IC9508 IC9504

SIDE A

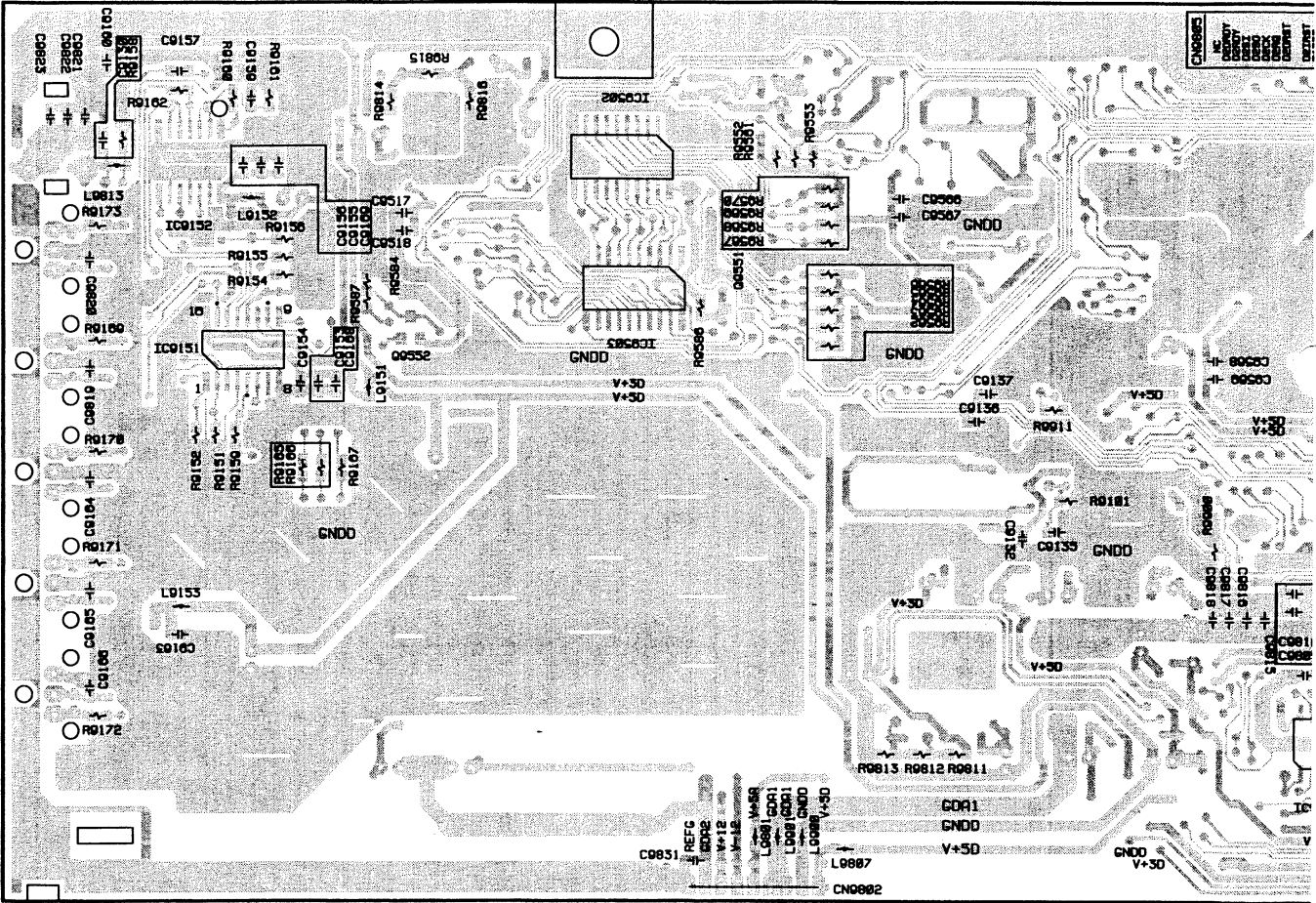
8

F CN804

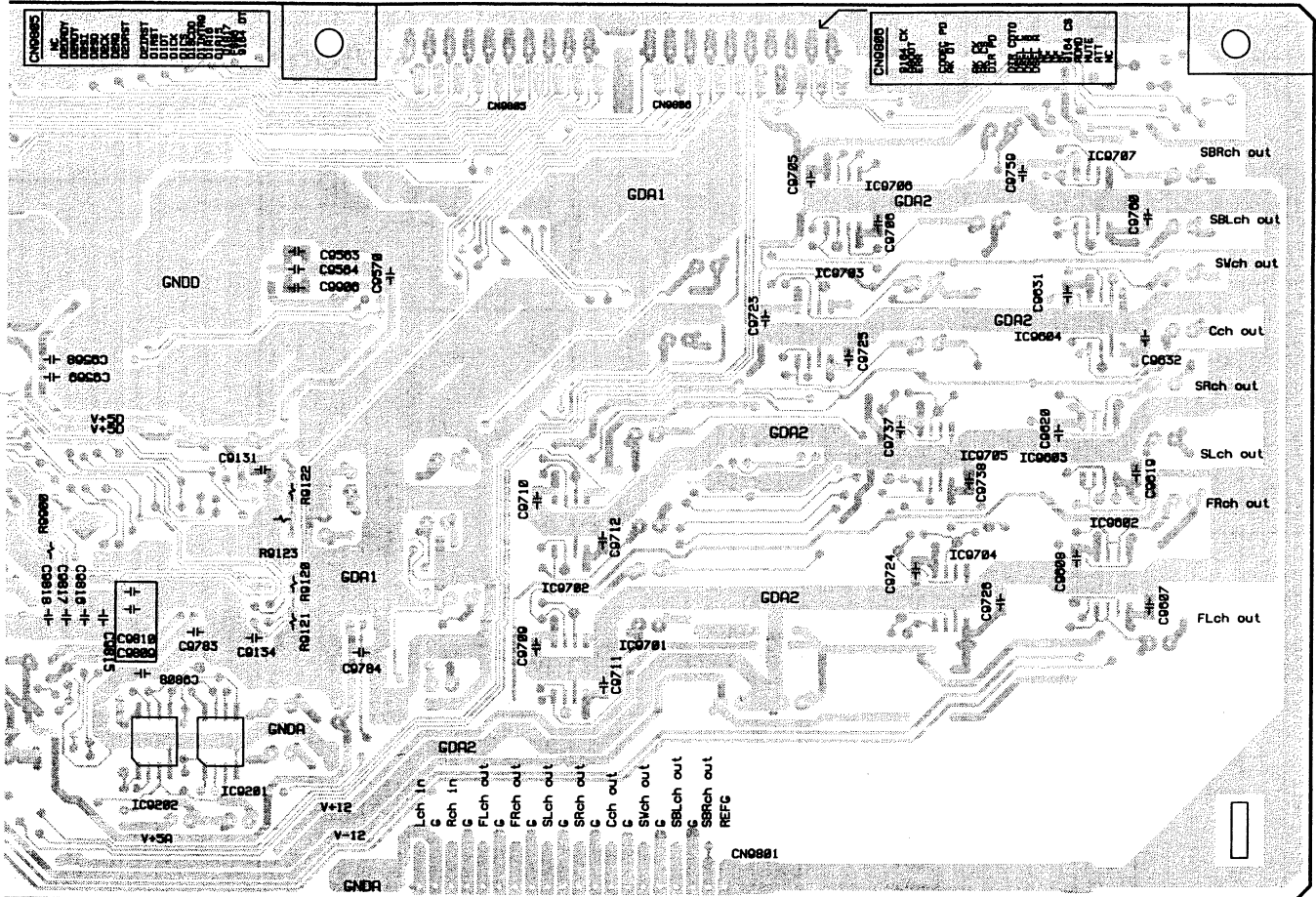
D

B

B D.D DSP ASSY



IC9152 IC9151 IC9552 IC9502 IC9503 IC



IC9202 IC9201

IC9701 IC9702

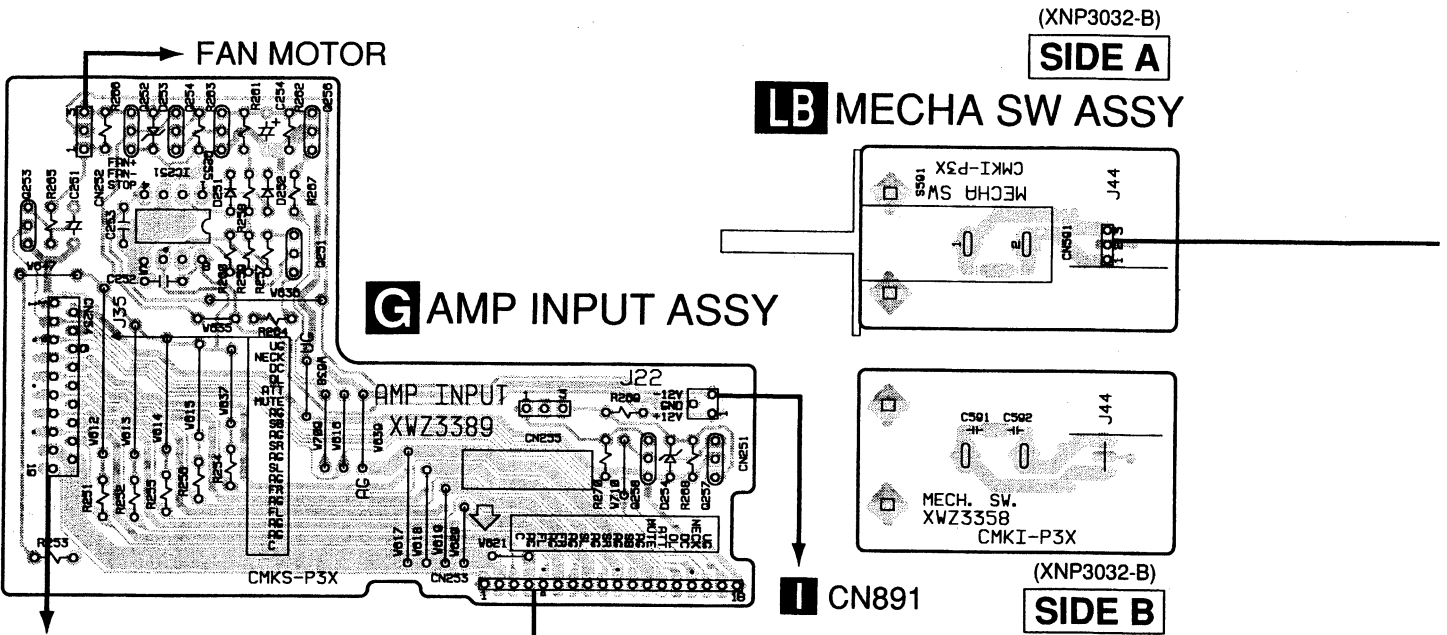
IC9703 IC9706 IC9704 IC9705 IC9707 IC9604 IC9603 IC9602

(XNP3034-B)

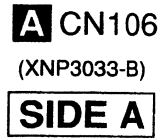
SIDE B

4.5 AMP INPUT, AMP&PRIMARY and MECHA SW ASSYS

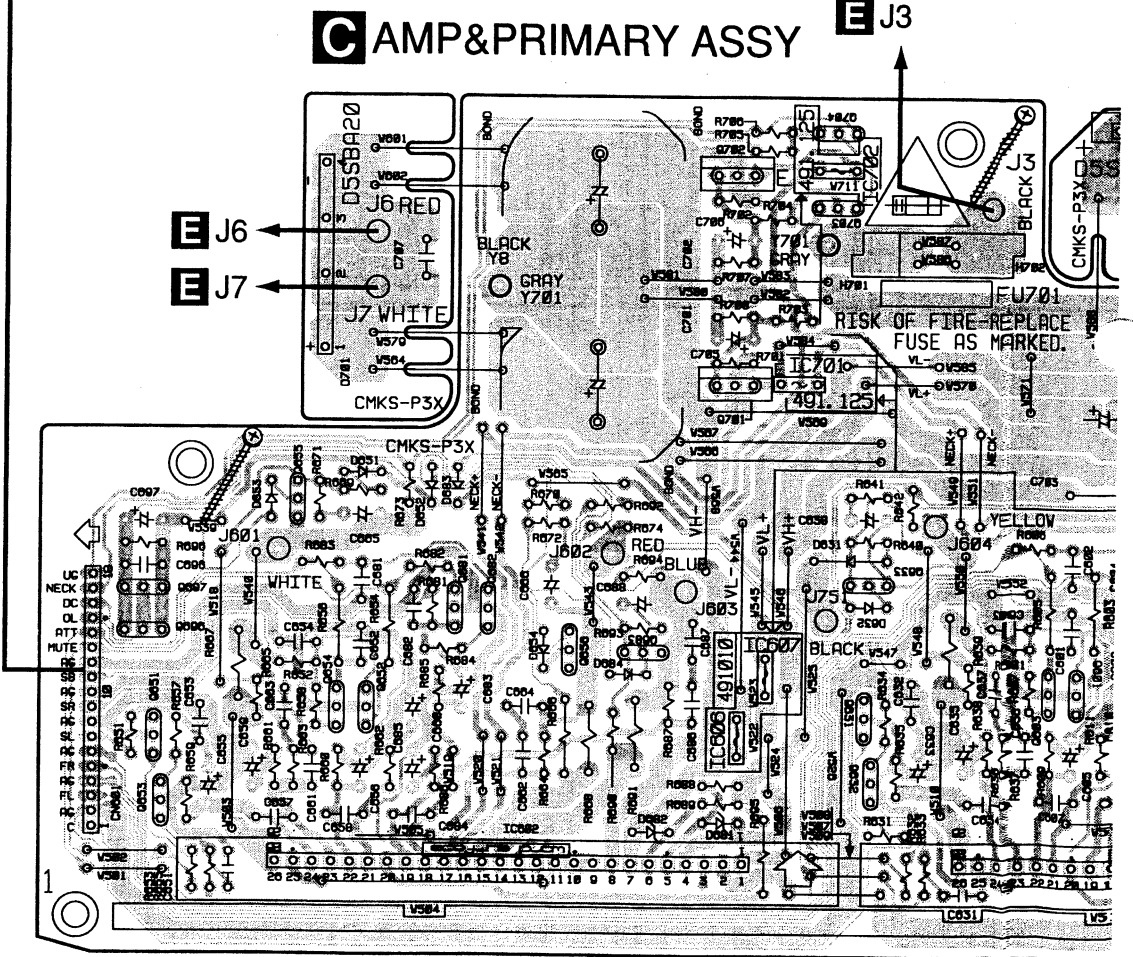
A



B

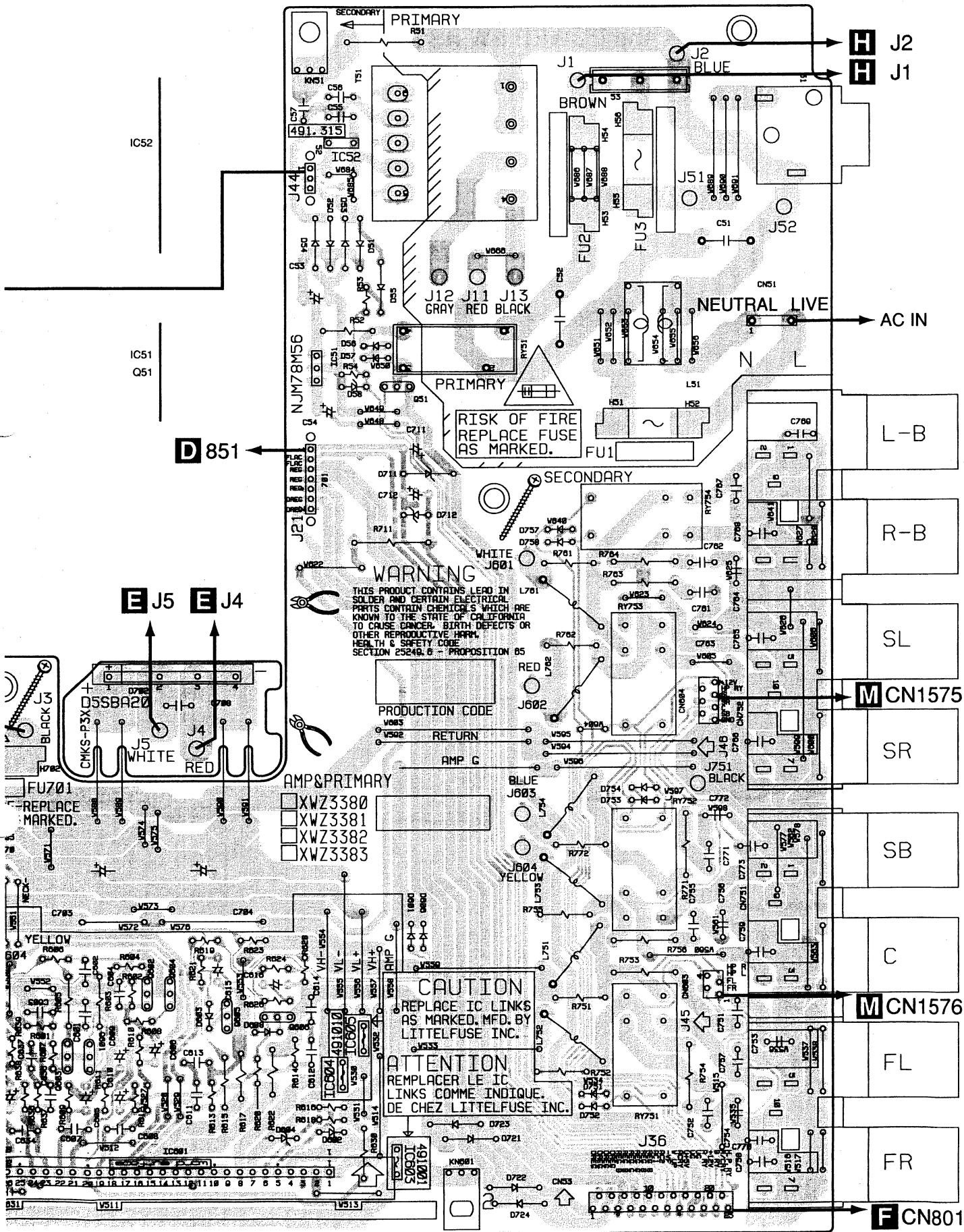


C



D





D 851

E J5 E J4

M CN1575

M CN1576

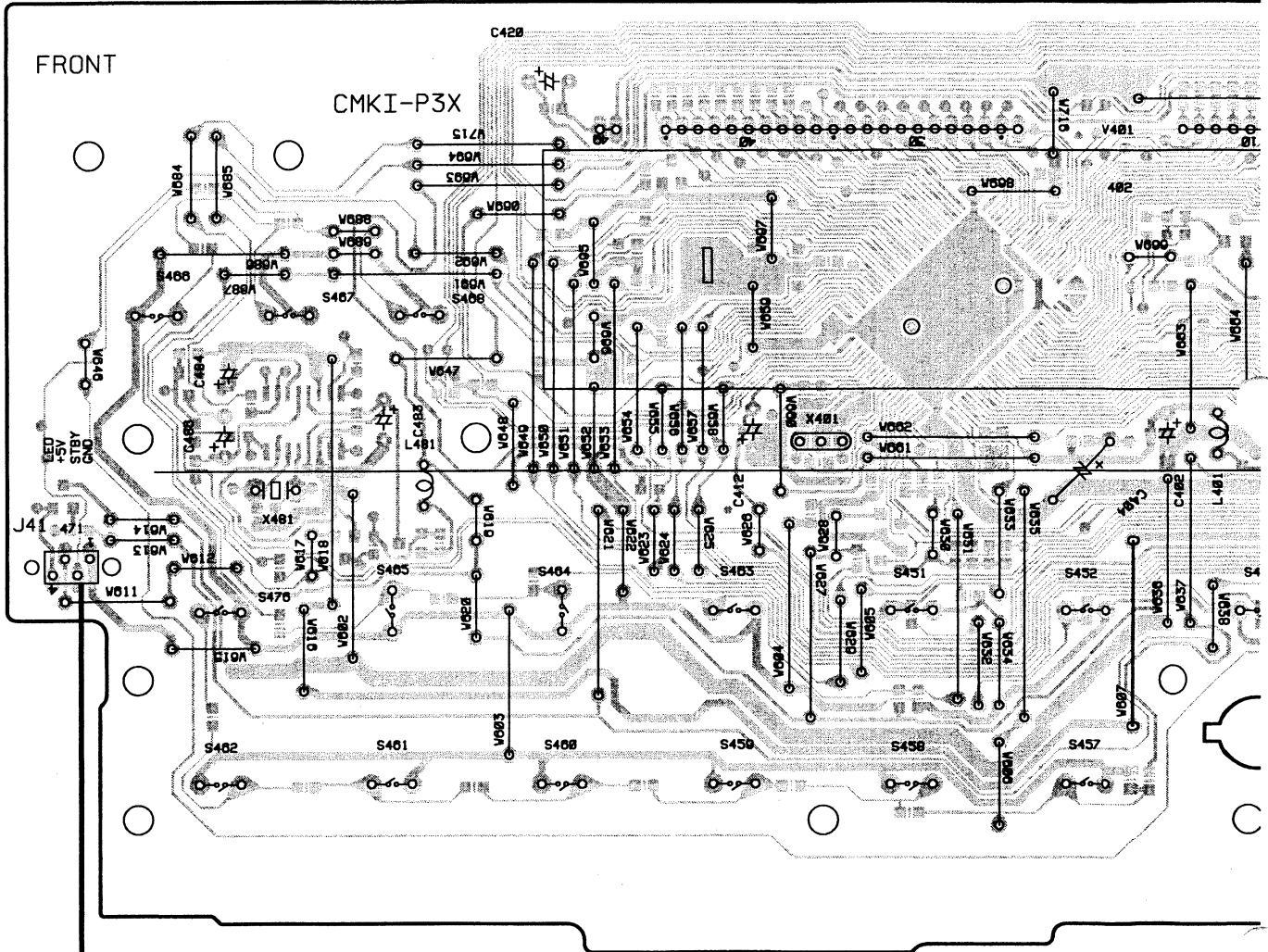
F CN801

C

4.6 FRONT, R.ENCODER and POWER SW ASSYS

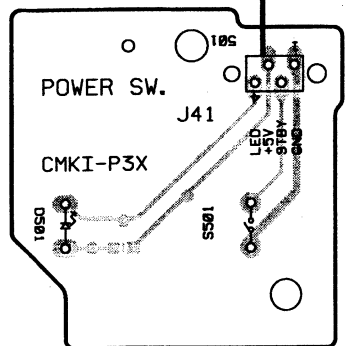
A

N FRONT ASSY



B

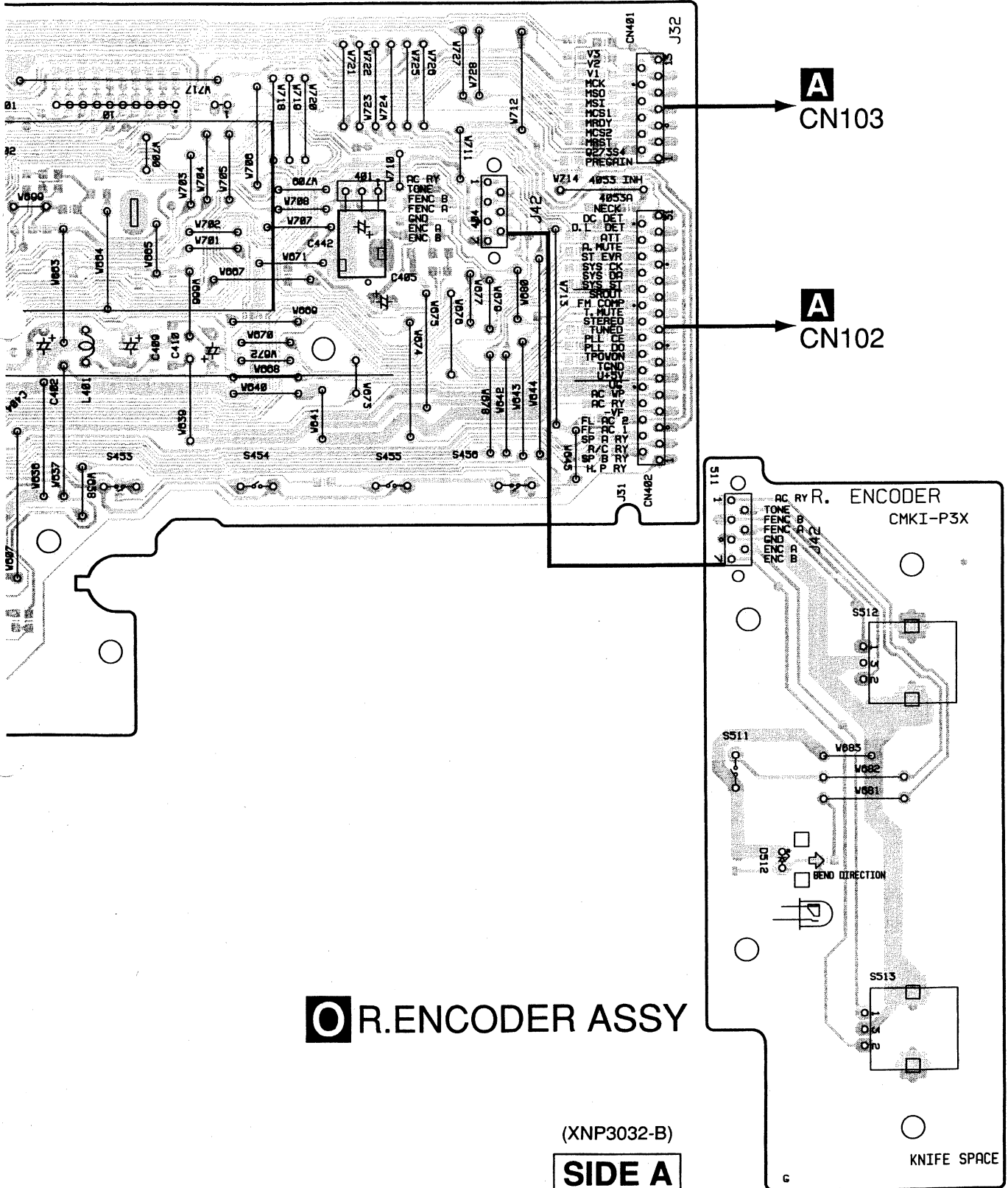
C



D

P POWER SW ASSY

N P



A CN103

A CN102

O R.ENCODER ASSY

(XNP3032-B)

SIDE A

NO

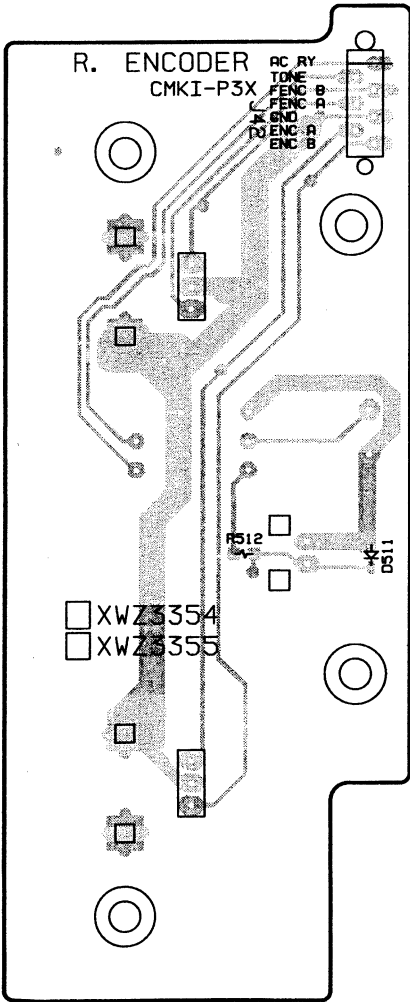
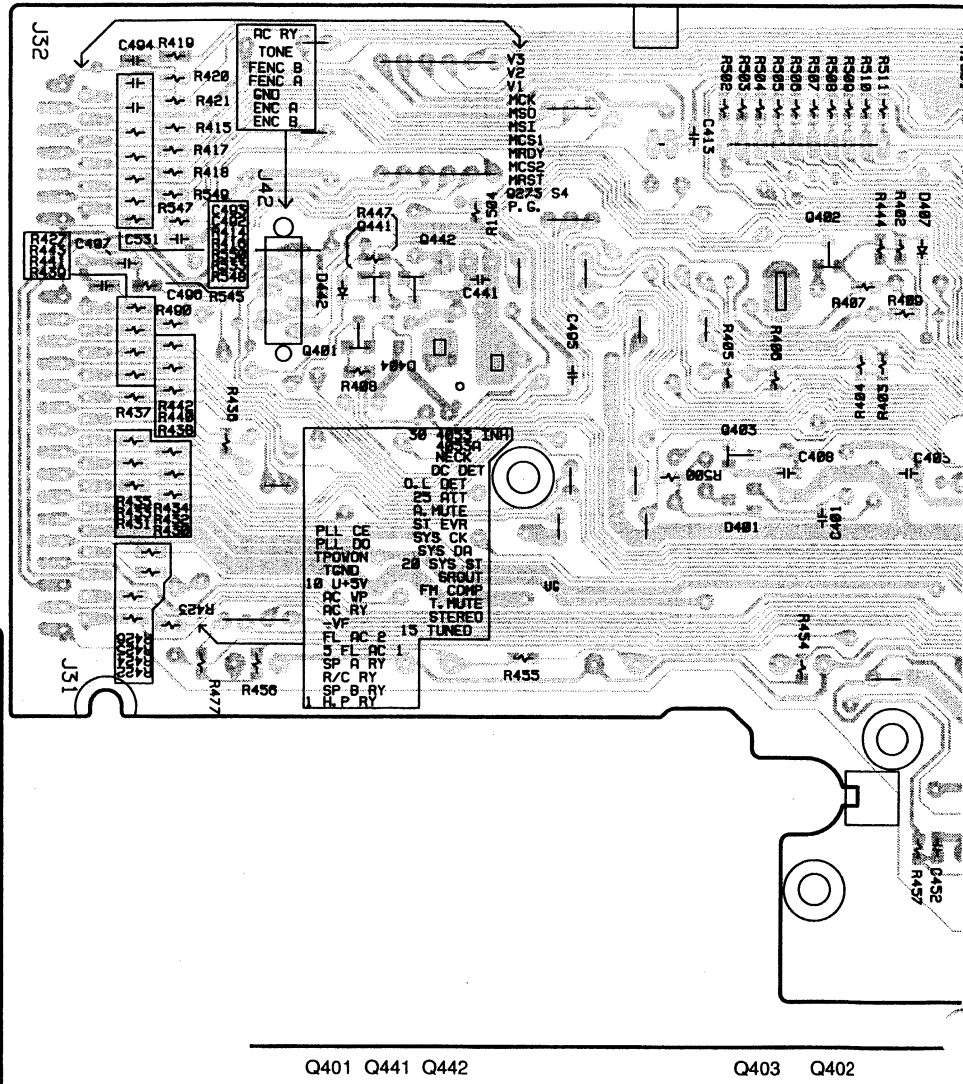
A

B

C

D

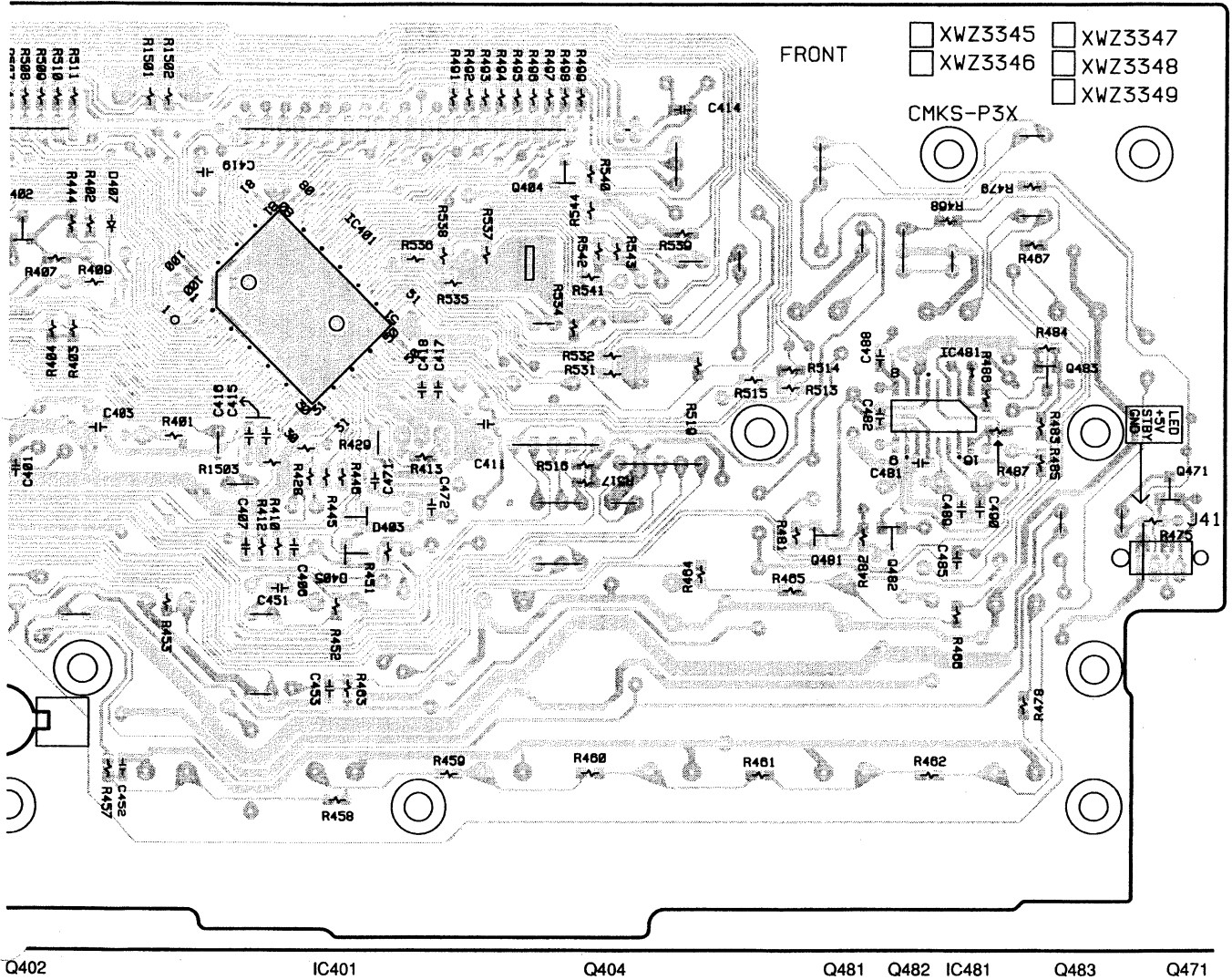
N FRONT ASSY



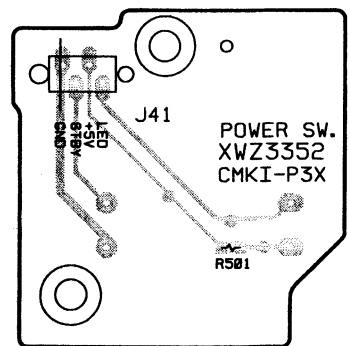
O R.ENCODER ASSY

(XNP3032-B)

SIDE B



- XWZ3345
- XWZ3346
- XWZ3347
- XWZ3348
- XWZ3349

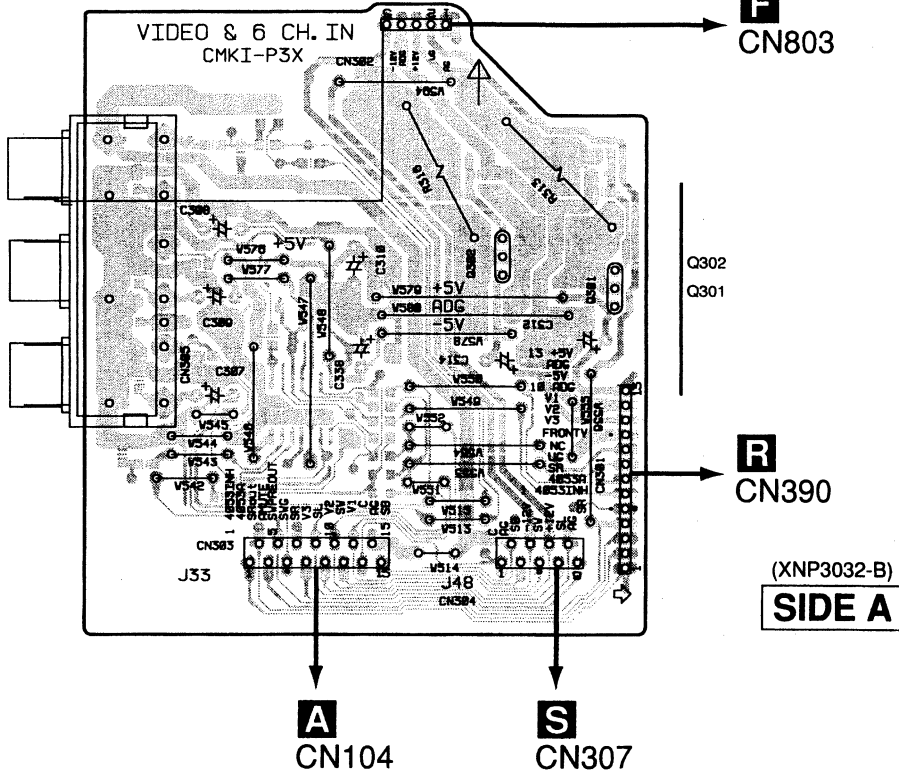


P POWER SW ASSY

4.7 VIDEO&6CH IN ASSY

A

Q VIDEO&6CH IN ASSY

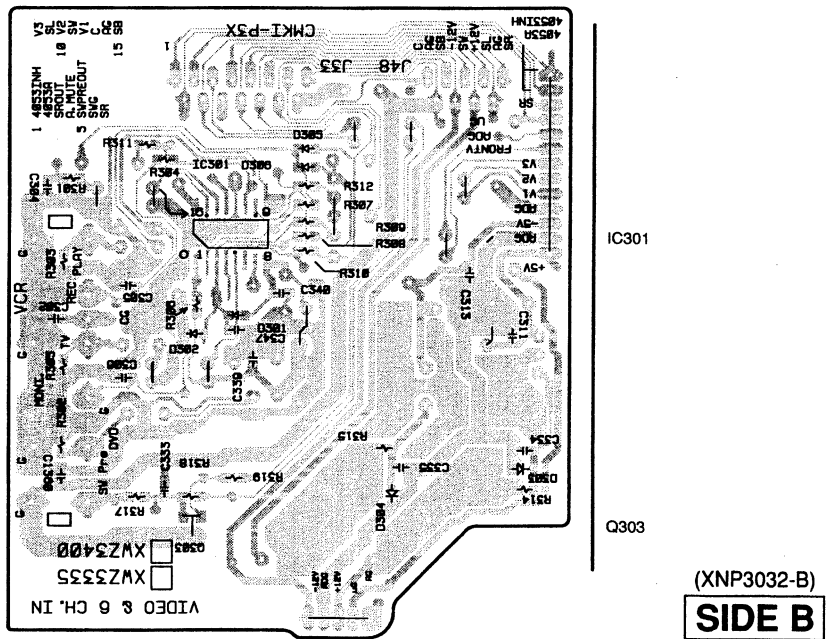


B

C

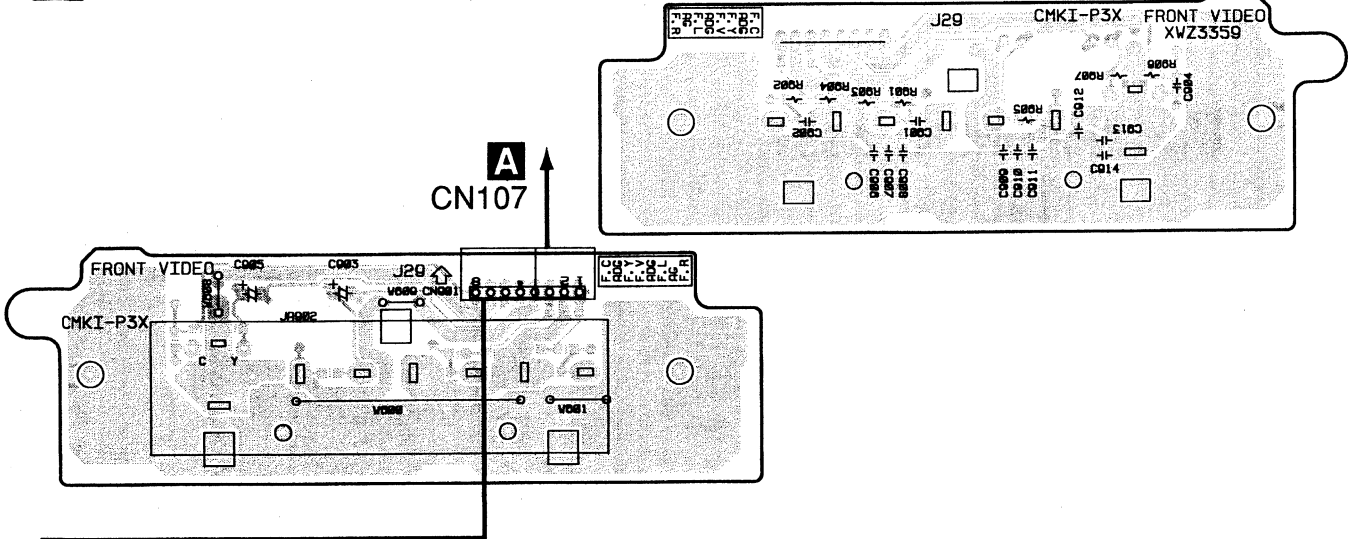
D

Q VIDEO&6CH IN ASSY

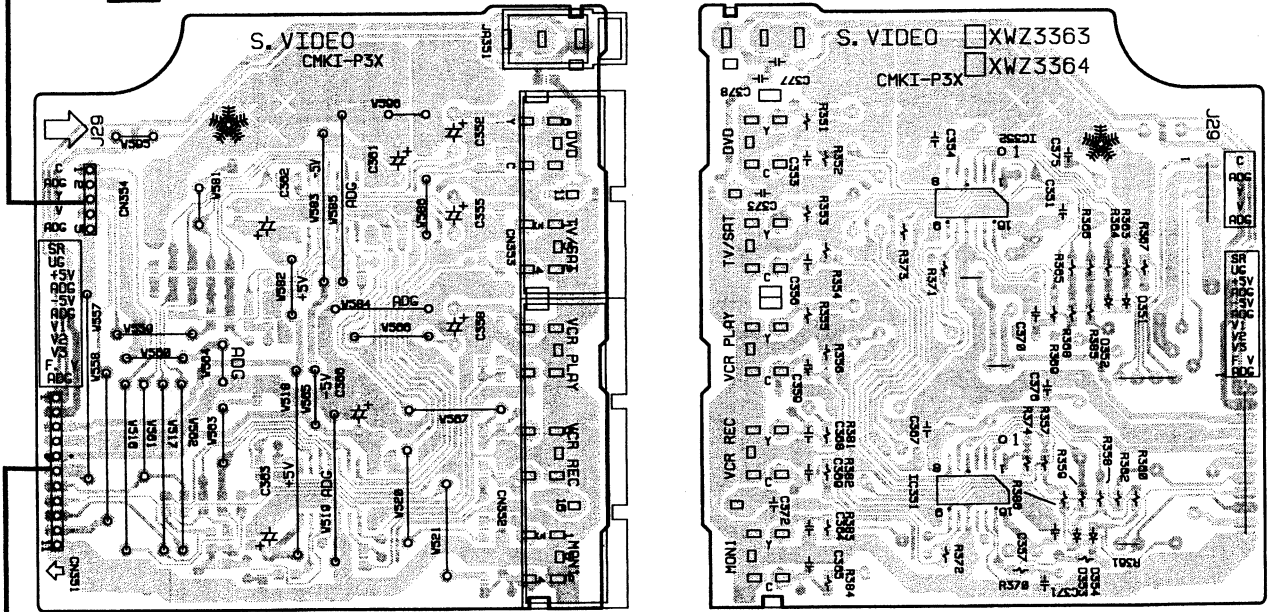


4.8 FRONT VIDEO, BOARD TO BOARD and S.VIDEO ASSYS

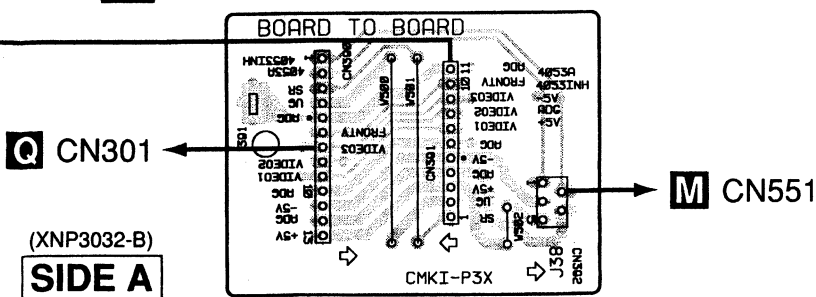
J FRONT VIDEO ASSY



T S. VIDEO ASSY



R BOARD TO BOARD ASSY



IC351 IC352

(XNP3032-B)

SIDE B

(XNP3032-B)

SIDE A

4.9 H.P. and COMPONENT ASSYS

A

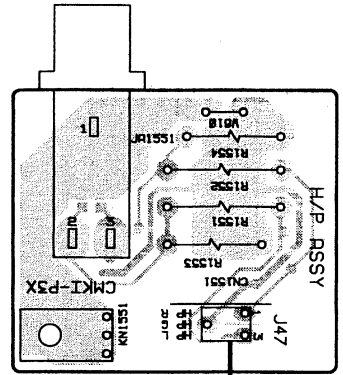
LA H.P. ASSY

M COMPONENT ASSY

C CN603

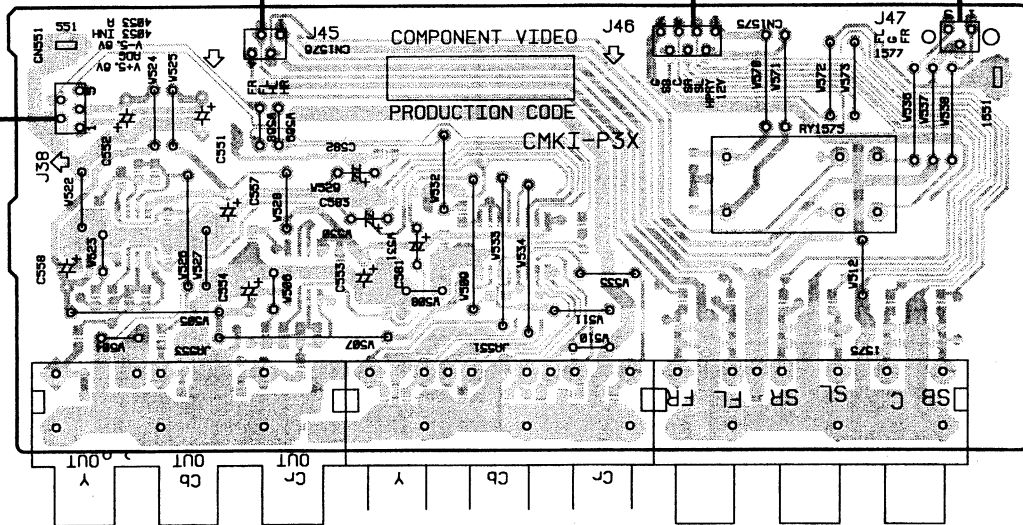
C CN604

R CN392



B

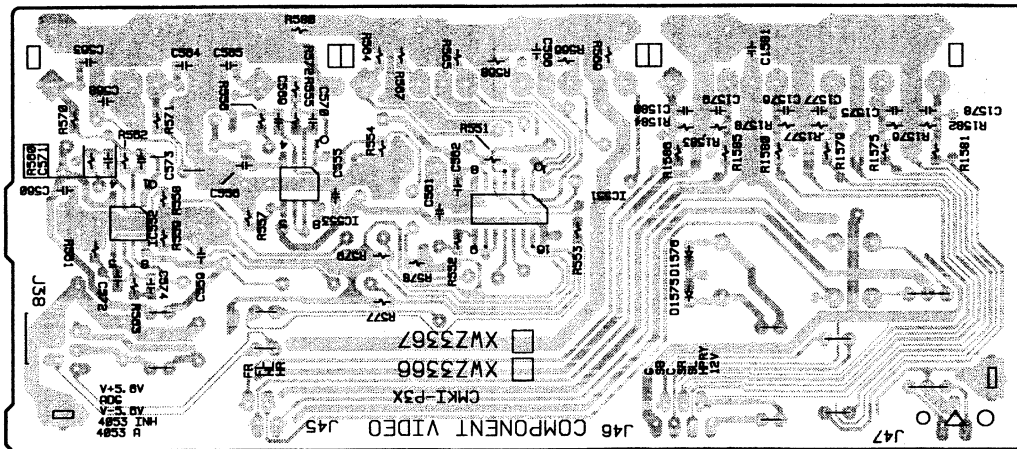
(XNP3032-B)
SIDE A



C

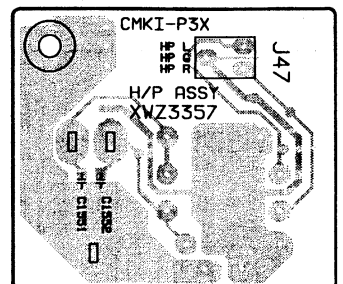
M COMPONENT ASSY

(XNP3032-B)
SIDE B



D

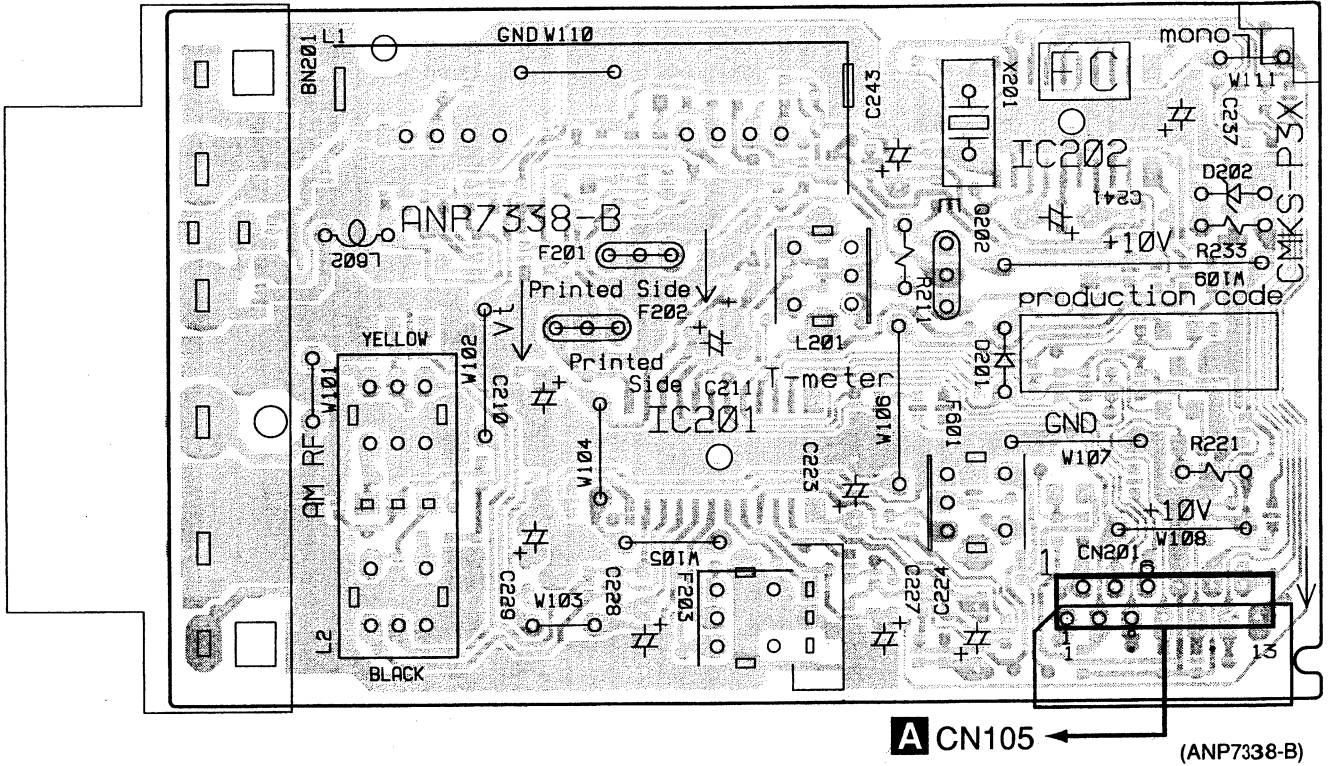
LA H.P. ASSY



4.10 FM/AM TUNER MODULE

U FM/AM TUNER MODULE

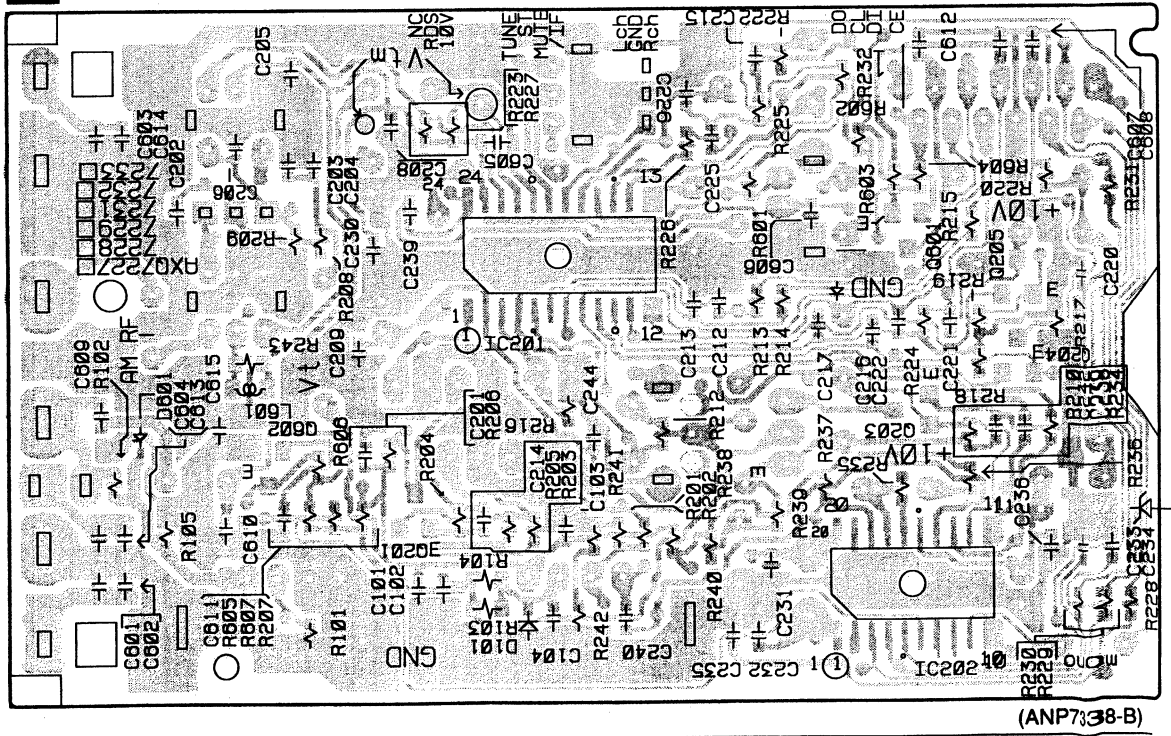
SIDE A



Q202

U FM/AM TUNER MODULE

SIDE B



Q201

IC201

Q203
IC202

Q205
Q204



5. PCB PARTS LIST

NOTES: ●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 Ω \rightarrow 56×10^1 \rightarrow 561 RD1/4PU $\boxed{5} \boxed{6} \boxed{1} J$

47k Ω \rightarrow 47×10^3 \rightarrow 473 RD1/4PU $\boxed{4} \boxed{7} \boxed{3} J$

0.5 Ω \rightarrow R50 RN2H $\boxed{R} \boxed{5} \boxed{0} K$

1 Ω \rightarrow 1R0 RSIP $\boxed{1} \boxed{R} \boxed{0} K$

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

5.62k Ω \rightarrow 562×10^1 \rightarrow 5621 RN1/4PC $\boxed{5} \boxed{6} \boxed{2} \boxed{1} F$

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
		FM/AM TUNER MODULE	AXQ7232			IC112	TC9459F
NSP		COMPLEX ASSY	XWK3011			IC104-IC107, IC110	UPC4570G2-TFB
		VIDEO&6CH IN ASSY	XWZ3335			Q101	2SC1740S
		FRONT ASSY	XWZ3346			Q251, Q252	2SC2412K
		6CH IN ASSY	XWZ3350			Q107-Q112	2SC3326
		POWER SW ASSY	XWZ3352			D103, D105, D106, D254, D255	1SS355
		R. ENCODER ASSY	XWZ3354			D201, D202	RB501V-40
		H.P. ASSY	XWZ3357			D104, D256	UDZS5.1B
		MECHA SW ASSY	XWZ3358			D101, D102	UDZS6.8B
		FRONT VIDEO ASSY	XWZ3359				
		S. VIDEO ASSY	XWZ3363				
		COMPONENT ASSY	XWZ3366				
		D TO O ASSY	XWZ3368				
		TRANS4 ASSY	XWZ3369				
		BOARD TO BOARD ASSY	XWZ3371				
NSP		AMP&PS ASSY	XWK3024				
		AMP&PRIMARY ASSY	XWZ3381				
		REGULATOR ASSY	XWZ3386				
		AMP INPUT ASSY	XWZ3389				
		TRANS2 ASSY	XWZ3404				
NSP		TRANS1 ASSY	XWZ3390				
NSP		TRANS3 ASSY	XWZ3392				
NSP		D.D & INPUT ASSY	XWK3028				
		D.D DSP ASSY	XWZ3395				
		D.D UCOM ASSY	XWZ3398				

COMPLEX ASSY

OTHERS

J 47	JUMPER WIRED	D15A03-400-2651
J 41	JUMPER WIRED	D15A04-125-2651
J 42	JUMPER WIRED	D15A07-075-2651

AMP&PS ASSY

OTHERS

Y 8	AWG14 BOARD IN	ADX7284
J 44	JUMPER WIRED	D20PYY0325E
J 21	JUMPER WIRED	D20PYY0715E

A D.D UCOM ASSY

SEMICONDUCTORS

IC103	M62446FP
IC5901	PD5634A
IC102	TC9163AF
IC111	TC9215AF
IC101	TC9273F-007

COILS AND FILTERS

L5901	CHIP SOLID INDUCTOR	ATL7002
L101, L102, L111, L112		QTL1013
L1203, L1204, L1601, L1602, L5902	CHIP SOLID INDUCTOR	QTL1013

CAPACITORS

C101-C114, C121-C123	CCSRCH101J50
C126-C128, C152-C154	CCSRCH101J50
C158-C160, C197, C198	CCSRCH101J50
C207, C208, C221, C222	CCSRCH101J50
C228, C229	CCSRCH101J50

C211, C212	CCSRCH220J50
C235, C241	CCSRCH221J50
C5906	CCSRCH271J50
C251, C252, C5902	CCSRCH471J50
C130-C137, C146-C151	CEAT100M50

C161, C162, C202, C245-C247	CEAT100M50
C261	CEAT100M50
C5904	CEAT101M10
C157	CEAT101M16
C144, C145, C250	CEAT3R3M50

C117, C118	CEAT470M25
C225, C226, C232, C233, C239	CEAT470M50
C244	CEAT470M50
C155, C156	CEAT471M10
C115, C116, C234, C240	CEAT4R7M50

C173, C174	CKSQYB224K16
C256	CKSQYF105Z16
C271, C5912	CKSRYB102K50
C119, C120, C124, C125	CKSRYB103K50
C171, C172, C179, C180, C183	CKSRYB103K50

C199-C201, C203, C204	CKSRYB103K50
C223, C224, C230, C231	CKSRYB103K50
C237, C238, C242, C243	CKSRYB103K50
C248, C249	CKSRYB103K50
C140, C143, C253-C255, C5907	CKSRYB104K16

Mark	No.	Description	Part No.
	C236		CKSRYB152K50
	C139, C142		CKSRYB153K50
	C138, C141		CKSRYB822K50
	C227		CKSRYF104Z16
	C1631, C1632		CKSRYF104Z25
	C184, C185		CKSRYF473Z50

RESISTORS

△	R171-R173	RS1/16S102J
△	R174, R175	RS1LMF101J
	Other Resistors	RS1/16S□□□J

OTHERS

CN9501, CN9502	20P CONNECTOR	52044-2045
CN9505	10P CONNECTOR	52045-1045
CN103, CN105	13P CONNECTOR	52045-1345
CN104	15P CONNECTOR	52045-1545
CN106	19P CONNECTOR	52045-1945
CN102	31P CONNECTOR	52045-3145
JA101-JA104	PIN JACK (4P)	AKB7048
CN107	CONNECTOR POST	B3B-PH-K
CN101, CN108	19P SOCKET	KP200TA20L
101-104	PCB BINDER	VEF1040
X5901	CERAMIC RESONATOR (15.7MHz)	ASS7032

B D.D DSP ASSY SEMICONDUCTORS

IC9101	AK4112AVF
IC9102	AK4527VQ
IC9551	AK7706VT
IC9103	CS4391
IC9501	CS493292
IC9201, IC9202	NJM2100M
IC9504	PDN031C
IC9811	PQ20WZ51
IC9812	PQ7VZ5
IC9552	TC551001CFT-70L
IC9151	TC74ACT151F
IC9152	TC74HCU04AF
IC9505	TC74LVX244FT
IC9502, IC9503	TC74VHC574F
IC9506	TC74VHCT244AFT
IC9507	TC7WU04FU
IC9601	TC9164AF
IC9602-IC9604, IC9701-IC9707	UPC4570G2-TFB
Q9201, Q9202, Q9601-Q9606, Q9611	2SC3326
Q9102, Q9104, Q9203, Q9607	DTA124EK
Q9609, Q9610	DTA124EK
Q9101, Q9103, Q9204, Q9608	DTC124EK
D9601, D9602	1SS181

COILS AND FILTERS

L9501, L9551, L9801, L9802, L9807	ATL7002
L9809, L9811, L9812, L9900, L9901	ATL7002
	CHIP SOLID INDUCTOR
L9101-L9107, L9151-L9153	QTL1013
L9502, L9503, L9506, L9507, L9552	QTL1013
L9813	CHIP SOLID INDUCTOR
	QTL1013

Mark	No.	Description	Part No.
CAPACITORS			
	C9510, C9511		CCSRCH100D50
	C9115, C9135, C9160, C9609, C9610		CCSRCH101J50
	C9721, C9722, C9735, C9900		CCSRCH101J50
	C9822		CCSRCH102J50
	C9107		CCSRCH150J50
	C9106		CCSRCH180J50
	C9621, C9622, C9749, C9751, C9809		CCSRCH221J50
	C9509, C9629		CCSRCH271J50
	C9159		CCSRCH470J50
	C9101, C9104, C9112, C9114, C9119		CCSRCH471J50
	C9122, C9130, C9154, C9156, C9503		CCSRCH471J50
	C9505, C9507, C9513, C9515, C9518		CCSRCH471J50
	C9520, C9522, C9525, C9528, C9553		CCSRCH471J50
	C9555, C9557, C9559, C9561, C9564		CCSRCH471J50
	C9617, C9618, C9639, C9757		CCSRCH471J50
	C9201, C9202		CCSRCH560J50
	C9707, C9708		CCSRCH820J50
	C9611, C9612, C9736		CCSRCH821J25
	C9113		CEAT221M10
	C9523, C9526, C9643, C9644, C9770		CEJQ100M25
	C9501, C9516, C9551, C9740		CEJQ101M10
	C9801, C9802, C9812, C9814		CEJQ101M10
	C9123, C9125		CEJQ1R0M50
	C9127, C9529		CEJQ2R2M50
	C9713, C9714, C9727, C9728, C9739		CEJQ330M10
	C9753, C9765-C9769		CEJQ330M10
	C9102, C9108, C9117, C9120		CEJQ470M16
	C9151, C9152, C9162, C9562		CEJQ470M16
	C9803, C9805		CEJQ470M25
	C9203, C9204, C9206, C9207		CEJQ4R7M50
	C9603, C9604, C9615, C9616		CEJQ4R7M50
	C9627, C9628, C9761, C9811, C9813		CEJQ4R7M50
	C9110		CEJQR47M50
	C9131, C9745, C9781, C9815		CKSRYB102K50
	C9103, C9105, C9118, C9121, C9124		CKSRYB103K50
	C9133, C9134, C9153, C9155		CKSRYB103K50
	C9157, C9158, C9502, C9504, C9506		CKSRYB103K50
	C9508, C9512, C9514, C9517, C9519		CKSRYB103K50
	C9521, C9524, C9527, C9531, C9552		CKSRYB103K50
	C9554, C9556, C9558, C9560, C9563		CKSRYB103K50
	C9572, C9636, C9637, C9816		CKSRYB103K50
	C9109, C9116, C9126, C9626, C9784		CKSRYB104K16
	C9804, C9806, C9817, C9818, C9831		CKSRYB104K16
	C9841, C9901, C9904, C9905		CKSRYB104K16
	C9605, C9606, C9633, C9755		CKSRYB122K50
	C9211, C9212		CKSRYB152K50
	C9703, C9704, C9715, C9716, C9729		CKSRYB182K50
	C9601, C9602, C9613, C9614, C9625		CKSRYB222K50
	C9763		CKSRYB222K50
	C9701, C9702		CKSRYB272K50
	C9732		CKSRYB333K16
	C9645		CKSRYB472K50
	C9111		CKSRYB682K50
	C9717, C9718, C9731		CKSRYB821K50
	C9163, C9164, C9166, C9205		CKSRYF104Z25
	C9208-C9210, C9607, C9608		CKSRYF104Z25
	C9619, C9620, C9631, C9632		CKSRYF104Z25
	C9705, C9706, C9709-C9712		CKSRYF104Z25
	C9723-C9726, C9730, C9737, C9738		CKSRYF104Z25
	C9759, C9760, C9810, C9819-C9821		CKSRYF104Z25
	C9823		CKSRYF104Z25

VSX-D810S

Mark No.	Description	Part No.
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RESISTORS

All Resistors	RS1/16S□□□□
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OTHERS

CN9805, CN9806 20P CONNECTOR	52045-2045
JA9150, JA9152, JA9153 OPTICAL LINK IN	GP1FA551RZ
JA9155 OPTICAL LINK OUT	GP1FA551TZ
CN9801 20P SOCKET	KP200TA20L
CN9802 9P SOCKET	KP200TA9L
JA9151 1P PIN JACK	VKB1077
X9101 CRYSTAL RESONATOR (24MHz)	ASS7025
X9501 CRYSTAL RESONATOR (27.0MHz)	VSS1086

C AMP&PRIMARY ASSY

SEMICONDUCTORS

△ IC52 PROTECTOR (315mA)	AEK7003
△ IC603 PROTECTOR (1A)	AEK7009
△ IC701, IC702 PROTECTOR (125mA)	AEK7020
△ IC604-IC607 PROTECTOR (10A) IC51	AEK7022 NJM78M56FA
△ IC601, IC602 Q703 Q702 Q696, Q697 Q704	PAC011A 2SA1145 2SB1238X 2SC1740S 2SC1845
Q605, Q606, Q633, Q655, Q656 Q683 Q601-Q604, Q631, Q632 Q651-Q654, Q681, Q682 Q701	2SC2240 2SC2240 2SC2878 2SC2878 2SD1859X
Q51 D56, D57, D601, D603, D606 D608, D631, D632, D651-D654 D683, D684, D751-D754 D757, D758	KRC101M 1SS133 1SS133 1SS133 1SS133
△ D701, D702 D711 D58 D712 D602, D604, D681, D682	D5SBA20(B) MTZJ22D MTZJ5.1A MTZJ5.1B MTZJ8.2A
△ D51-D55, D721-D724	S5688G

COILS AND FILTERS

△ L51 LINE FILTER L751-L754, L761, L762 COIL	ATF7018 ATH1004
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SWITCHES AND RELAYS

RY751-RY754 RELAY	XSR3002
△ RY51 JOE LOWPOWER RELAY	XSR3003

CAPACITORS

△ C707, C708 (0.01μF/AC250V)	ACG1005
C51, C52 (10000pF/AC250V)	ACG7020
C703, C704 (3300μF/42V)	ACH7135
C701, C702 (4700μF/71V)	ACH7137
C607, C608, C634, C657, C658	CCCSL101J50

Mark No.	Description	Part No.
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C684	CCCSL101J50
C611-C614, C636, C637	CCCSL6R0D50
C661-C664, C686, C687	CCCSL6R0D50
C615, C616, C638, C665, C666	CEANP2R2M50
C688	CEANP2R2M50

C705, C706	CEAT100M2A
C712	CEAT101M10
C609, C610, C635, C659, C660	CEAT101M16
C685	CEAT101M16
C711	CEAT101M35

C53	CEAT102M16
C697	CEAT221M10
C54	CEAT470M25
C605, C606, C633, C655, C656	CEAT4R7M50
C683	CEAT4R7M50

C751-C756, C761-C764	CFTYA224J50
C771, C772	CFTYA224J50
C55-C57	CGCYX103M25
C601, C602, C652, C681, C696	CKCYB102K50
C603, C604, C632, C653, C654	CKCYB331K50

C682	CKCYB331K50
C631, C651, C769, C770	CKPUYB102K50
C757-C759, C765-C768, C773	CQMBA472J50

RESISTORS

△ R52	RD1/2PM270J
△ R615	RD1/4PU331J
△ R751, R752, R755, R761, R762	RD1/4PUF101J
△ R772	RD1/4PUF101J
△ R753, R754, R756, R763, R764	RS1LMF4R7J
△ R771	RS1LMF4R7J
△ R711	RS2LMF332J
△ R617, R622, R639, R667, R668	XCN3001
△ R691 (0.22Ω/5W)	XCN3001
Other Resistors	RD1/4PU□□□□

OTHERS

52 3P CABLE HOLDER	51048-0300
CN603 4P CONNECTOR	52045-0445
CN604 7P CONNECTOR	52045-0745
CN53 23P CONNECTOR	52045-2345
CN751, CN752 SPEAKER TERMINAL 8-P	AKE7059

H 51, H 52 FUSE CLIP	AKR7001
△ T 51 STANDBY TRANSFORMER	ATT7037
CN601 18P PLUG	KM200TA18
CN51 AC CODE SOCKET	RKP1751
KN51, KN601 EARTH METAL FITTING	VNF1084

△ 701 7P CABLE HOLDER	XKP3047
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D TRANS2 ASSY

SEMICONDUCTORS

△ IC853 PROTECTOR (3A)	AEK7015
△ IC851, IC852 PROTECTOR (4A)	AEK7018

OTHERS

851 7P CABLE HOLDER	XKP3047
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E TRANS3 ASSY

TRANS3 ASSY has no service part.

Mark No. Description Part No.

F REGULATOR ASSY

SEMICONDUCTORS

IC803, IC804	NJM78M05FA
IC801, IC805	NJM78M12FA
IC802	NJM79M12FA
Q801, Q803, Q805, Q807	KRA103M
Q802, Q804, Q806, Q808	KRC101M

△ D809, D810	MTZJ6.2A
D801-D804	S5688G

CAPACITORS

C808, C811	CEAT101M10
C805, C806, C813	CEAT101M16
C801, C802	CEAT222M25
C809	CEAT332M16
C803, C804, C807, C810, C812	CGCYX103M25

OTHERS

CN801 23P CONNECTOR	52045-2345
CN802 20P PLUG	KM200TA20
CN803 5P PLUG	KM200TA5
CN804 9P PLUG	KM200TA9

G AMP INPUT ASSY

SEMICONDUCTORS

IC251	NJM4558D-D
Q257	2SA933S
Q251, Q256	2SC2878
Q252	2SD1858X
Q254	KRA103M

Q253, Q255	KRC103M
D251, D252	1SS133
D253	MTZJ27D
D254	MTZJ5.1B

CAPACITORS

C251	CEANP470M25
C254	CEAT101M25
C252, C253	CKPUYF103Z25

RESISTORS

All Resistors	RD1/4PU□□□J
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OTHERS

CN251 3P CONNECTOR	52044-0345
CN254 19P CONNECTOR	52044-1945
CN252 3P PLUG	KM250MA3L
CN253 18P SOCKET	KP200TA18L

H TRANS1 ASSY

TRANS1 ASSY has no service part.

I TRANS4 ASSY

SEMICONDUCTORS

△ IC891, IC892 PROTECTOR (630mA)	AEK7006
D891	S1WB(A)60SD

CAPACITORS

C891, C892	CEAT471M35
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Mark No. Description Part No.

OTHERS

CN891 3P CONNECTOR	52045-0345
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J FRONT VIDEO ASSY

CAPACITORS

C903, C905	CEJQ470M25
C908, C911, C914	CKSRYB103K50
C904, C906, C909, C912	CKSRYB104K25
C901, C902	CKSRYB221K50
C907, C910, C913	CKSRYB471K50

RESISTORS

All Resistors	RS1/16S□□□J
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OTHERS

JA902 PIN JACK (4P)	AKX7014
CN901 CONNECTOR	S8B-PH-K-S

K D TO O ASSY

OTHERS

CN1001, CN1002 20P PLUG	KM200TA20
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LA H.P. ASSY

CAPACITORS

C1551, C1552	CKSRYB223K50
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RESISTORS

△ R1553, R1554	RS1LMF471J
△ R1551, R1552	RS2LMF331J

OTHERS

CN1551 CONNECTOR(3P)	KPE3
JA1551 JACK	RKN1002
KN1551 EARTH METAL FITTING	VNF1084

LB MECHA SW ASSY

SWITCHES AND RELAYS

S591	ASG7014
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CAPACITORS

C591, C592	CKSQYF103Z50
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OTHERS

CN591 3PJUMPER CONNECTOR	52151-0310
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M COMPONENT ASSY

SEMICONDUCTORS

IC551	TC74HC4053AF
IC552, IC553	TK15420M
D1575, D1576	1SS355

SWITCHES AND RELAYS

RY1575 RELAY	XSR3002
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CAPACITORS

C551-C554, C557, C558	CEAT101M10
C1581, C555, C556, C559-C562	CKSRYB103K50
C566, C568	CKSRYB103K50

VSX-D810S

Mark	No.	Description	Part No.
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RESISTORS

All Resistors			RS1/16S□□□J
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OTHERS

1577	CABLE HOLDER(3P)	51063-0305
CN1576	4P CONNECTOR	52045-0445
CN551	5P CONNECTOR	52045-0545
CN1575	7P CONNECTOR	52045-0745
1575	PIN JACK(6P)	AKB7089
JA553	3P RCA PINJACK	AKB7124
JA551	6P RCA PINJACK	AKB7128

N FRONT ASSY

SEMICONDUCTORS

IC481	BU1923F
IC401	PDG261A
Q481	2SA1037K
Q483	2SC3326
Q401, Q402, Q442, Q471	DTA124EK
Q403, Q404, Q441, Q482	DTC143EK
D407, D442	1SS355
D403, D405	DAN217
D401, D404	DAP202K

COILS AND FILTERS

L401, L481	LFEA2R2J
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SWITCHES AND RELAYS

S451-S468, S476	ASG1051
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CAPACITORS

C420 (220μF/35V)	ACH7101
C404 (0.047F/5.5V)	ACH7132
C489, C490	CCSRCH270J50
C488	CCSRCH561J50
C483	CEAT101M10
C486	CEAT1R0M50
C402	CEAT221M6R3
C409, C410, C484	CEAT2R2M50
C412	CEAT470M50
C405	CEJQ221M6R3
C442	CEJQ470M10
C451-C453, C472, C481, C482	CKSRYB102K50
C495	CKSRYB102K50
C401, C403, C411, C419, C441	CKSRYB103K50
C531	CKSRYB103K50
C408, C416, C418, C471	CKSRYB104K16
C492-C494, C496, C497	CKSRYB104K16
C485	CKSRYB472K50
C406, C407	CKSRYB473K16

RESISTORS

All Resistors	RS1/16S□□□J
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OTHERS

471	CABLE HOLDER (4P)	51063-0405
404	CABLE HOLDER (7P)	51063-0705
CN401	13P CONNECTOR	52044-1345
CN402	31P CONNECTOR	52044-3145
V401	FL TUBE	XAV3010

Mark	No.	Description	Part No.
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X481	CERAMIC RESONATOR (4.332MHz)	ASS7004
X401	CERAMIC RESONATOR (7.2MHz)	ASS7018
401	REMOTE RECEIVER UNIT	GP1U28X

O R.ENCODER ASSY

SWITCHES AND RELAYS

S511		ASG1051
S513	ROTARY ENCODER	XSX3005
S512	ROTARY ENCODER	XSX3006

OTHERS

511	CABLE HOLDER (7P)	51063-0705
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P POWER SW ASSY

SEMICONDUCTORS

D501		BR3371XJ30A
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SWITCHES AND RELAYS

S501		ASG1051
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RESISTORS

All Resistors		RS1/16S□□□J
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OTHERS

501	CABLE HOLDER (4P)	51063-0405
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Q VIDEO&6CH IN ASSY

SEMICONDUCTORS

IC301		NJM2296M
Q302		2SA1515
Q303		2SC3326
Q301		2SC3377
D301, D302, D305, D306		1SS355

D303, D304		UDZS6.2B
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CAPACITORS

C347		CCSRCH470J50
C307-C310, C312, C314, C338		CEAT470M25
C1360, C302		CKSRYB103K50
C339, C340		CKSRYB104K25
C304-C306		CKSRYB221K50

C333		CKSRYB331K50
C311, C313		CKSRYB473K25

RESISTORS

△ R313, R316		RS3LMF390J
Other Resistors		RS1/16S□□□J

OTHERS

CN304	9P CONNECTOR	52044-0945
CN303	15P CONNECTOR	52044-1545
CN305	6P PIN JACK	AKB7123
CN301	13P SOCKET	KP200TA13L
CN302	5P SOCKET	KP200TA5L

Mark No. Description Part No.

R BOARD TO BOARD ASSY

OTHERS

CN392	5P CONNECTOR	52045-0545
CN391	11P PLUG	KM200TA11
CN390	3P PLUG	KM200TA13

S 6CH IN ASSY

SEMICONDUCTORS

IC302-IC305		NJM4558MD
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CAPACITORS

C1354, C1359, C319, C320	CCSRCH101J50
C327, C328, C342-C345	CCSRCH101J50
C348, C349	CCSRCH101J50
C1362	CCSRCH121J50
C1361	CCSRCH680J50

C1357	CEAT220M25
C1358, C321, C324, C331, C332	CEAT4R7M50
C1352, C1353, C1355, C1356, C316	CKSRYB103K50
C322, C323, C329, C330	CKSRYB103K50
C1350, C1351, C317, C318	CKSRYB221K50

C325, C326	CKSRYB221K50
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RESISTORS

All Resistors	RS1/16S□□□J
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OTHERS

CN307	9P CONNECTOR	52044-0945
308	PIN JACK(6P)	AKB7089

T S. VIDEO ASSY

SEMICONDUCTORS

IC351, IC352		NJM2296M
D351-D354		1SS355

CAPACITORS

C375, C376	CCSRCH470J50
C352, C355, C358, C361-C363	CEAT470M25
C366	CEAT470M25
C372, C373, C377, C378	CKSRYB103K50
C351, C353, C354, C356, C357	CKSRYB104K25

C359, C367	CKSRYB104K25
C364, C365, C368-C371	CKSRYB221K50

RESISTORS

All Resistors	RS1/16S□□□J
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OTHERS

CN354	CONNECTOR POST	B5B-PH-K
CN351	11P SOCKET	KP200TA11L
JA351	JACK	RKN1004
CN353	2-4P MINI DIN SOCKET	XKP3044
CN352	3-4P MINI DIN SOCKET	XKP3045

U FM/AM TUNER MODULE

SEMICONDUCTORS

IC201		BA1451F
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Mark No. Description Part No.

IC202		LC72131MD-TFB
Q201, Q204, Q205, Q601		2SC2412K
Q202		DTA124ES
Q203, Q602		DTC124EK

D201		1SS133
D601		HVU187
D202		MTZJ5.1C
D101		UDZS6.8B

COILS AND FILTERS

L201	FM DETECTOR COIL	ATE7003
F202	CERAMIC FILTER	ATF-107
F201	CERAMIC FILTER	ATF-119
F601	ANTIBIRDY FILTER	ATF7025
F203	AM CERAMIC FILTER	ATF7026

L602		LAU2R2J
L601		LCTA270J2520

CAPACITORS

C605	CCSQCH680J50
C212, C213, C226, C233-C235	CCSRCH101J50
C240, C614	CCSRCH101J50
C206	CCSRCH120J50
C231, C232	CCSRCH150J50

C223	CEAT100M50
C229	CEAT101M10
C224	CEAT1ROM50
C227	CEAT220M25
C241	CEAT2R2M50

C243	CEAT330M16
C228	CEAT3R3M50
C237	CEAT470M10
C211	CEJQ1ROM50
C210	CEJQ470M16

C103, C104, C204, C238, C609	CKSRYB102K50
C102, C208, C216, C217, C220	CKSRYB103K50
C239, C242, C604, C610, C615	CKSRYB103K50
C225	CKSRYB153K50
C607, C608	CKSRYB182K50

C201, C205, C214, C230, C236	CKSRYB223K50
C244, C611	CKSRYB223K50
C221	CKSRYB224K10
C603	CKSRYB392K50
C215	CKSRYB471K50

C202, C222	CKSRYB473K16
C606	CKSRYB561K50

RESISTORS

R211	RD1/4PU221J
R221	RD1/4PU222J
R233	RD1/4PU391J
R103, R104	RS1/10S221J
Other Resistors	RS1/16S□□□J

OTHERS

CN201	13P CONNECTOR	52044-1345
BN201	2P TERMINAL WITH PAL SHIELD CASE T	AKA7002
	SHIELD CASE B	ANK7072
	SHIELD CASE T	ANK7073
X201	CRYSTAL RESONATOR (7.2MHz)	ASS1093

FM FRONT END	AXF7005
AM RF TUNING BLOCK	AXX7072

6. ADJUSTMENT

6.1 TUNER SECTION

■ AM Tuner Section

- There is no adjustment in the AM tuner.

■ FM Tuner Section

- Set the mode selector to FM BAND.
- Connect the wiring as shown in Fig. 1.

Step No.	Adjustment Title	ANT. Input level and signal condition			Adjustment	
		Frequency (MHz)	Modulation	Input Level (dB μ V)	Adjust point	Contents
1	T-METER Adjustment	98	OFF	80	L201	Adjust L201 so that the DC voltage between Pin 21 and Pin 23 of IC201 (Test point V _{tm}) gets within 0 \pm 50mV.

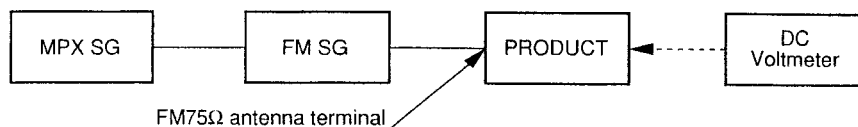


Fig.1 Adjustment Wiring Diagram

U FM/AM TUNER MODULE

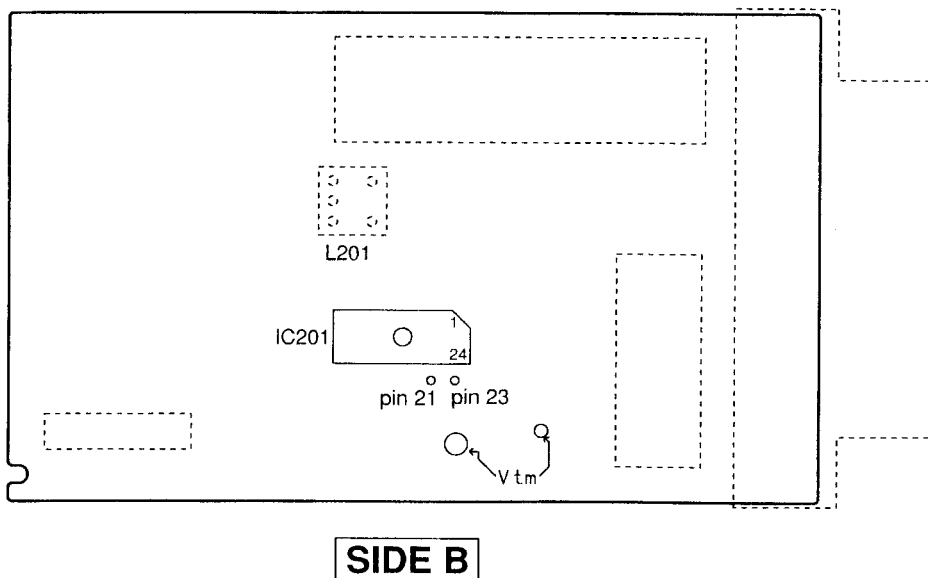


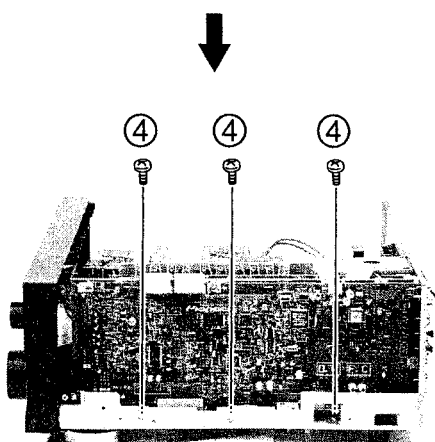
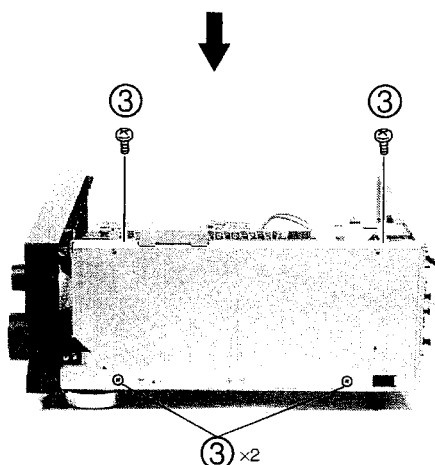
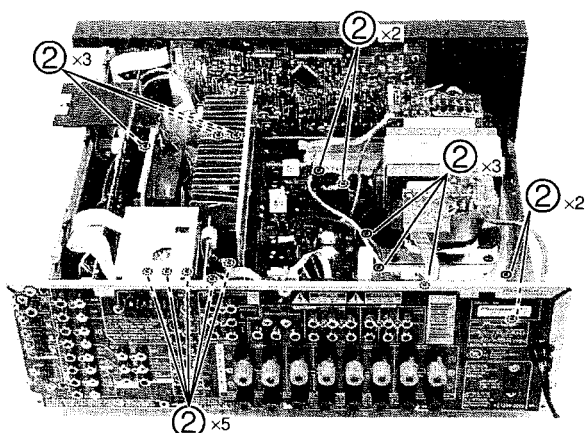
Fig.2 Adjustment Point

7. GENERAL INFORMATION

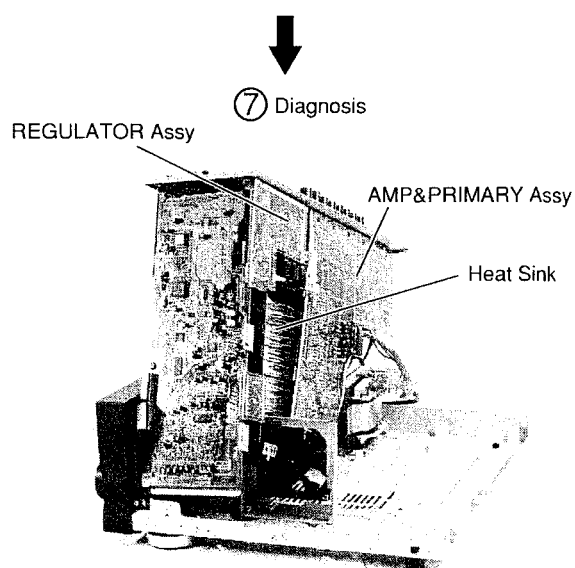
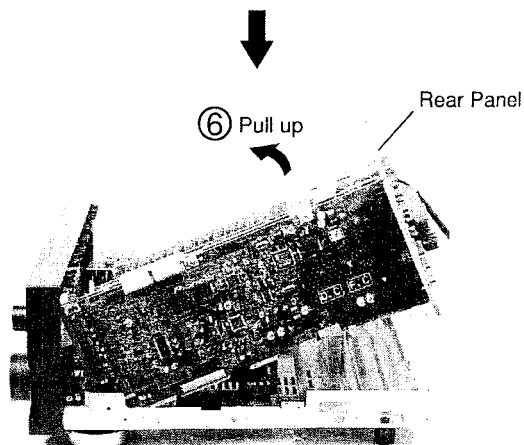
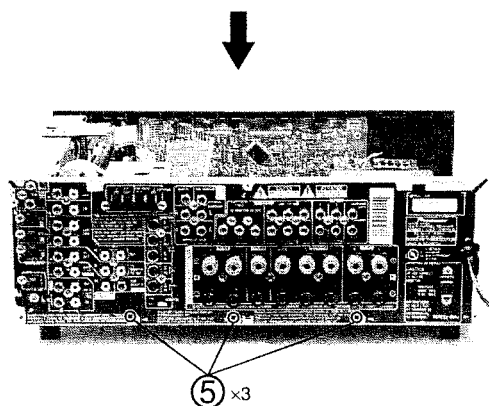
7.1 DISASSEMBLY AND DIAGNOSIS

■ Diagnosis

① Remove the Bonnet (seven screws).



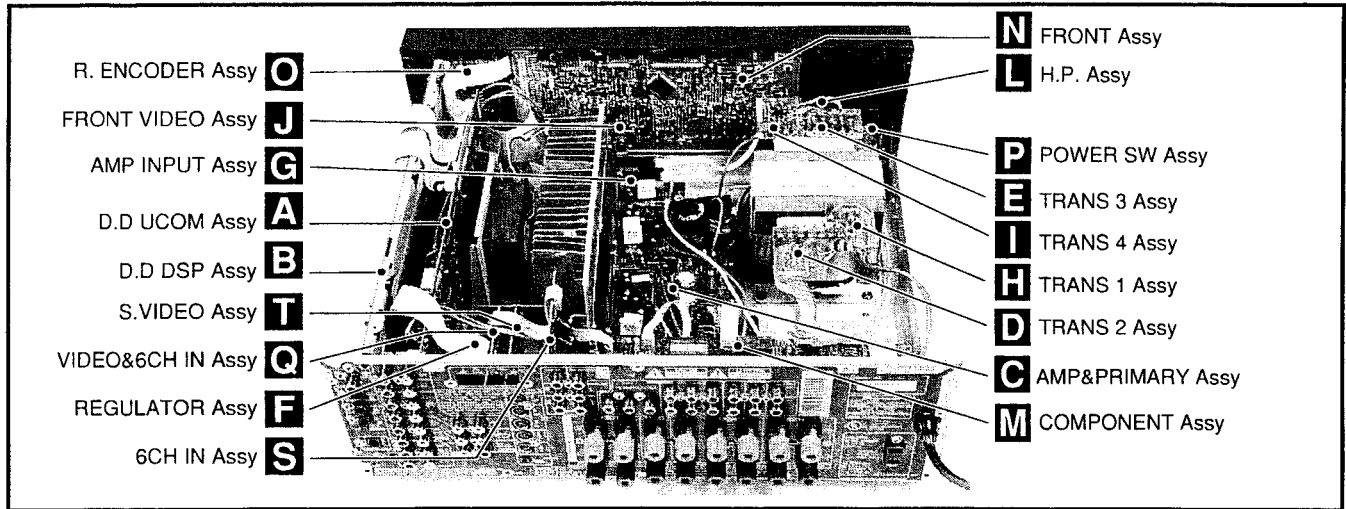
Note : This photograph shows other models.
However, the work method is the same.



Note : The product does not operate when the screws of Speaker Terminal are taken off from Rear Panel.
When FM/AM TUNER MODULE was removed, the product operates except FM/AM TUNER function.

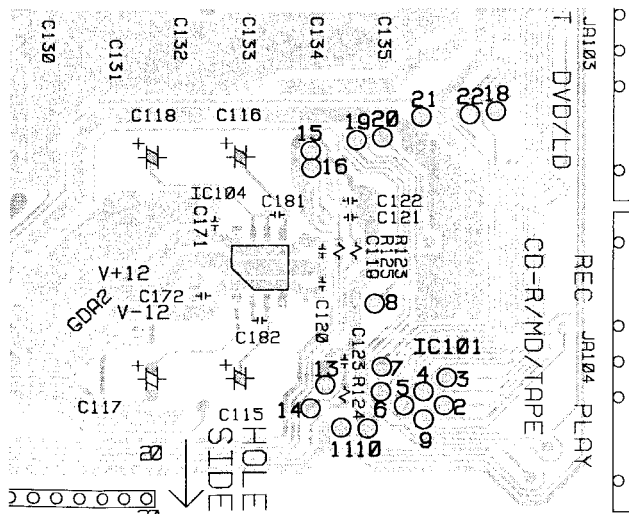
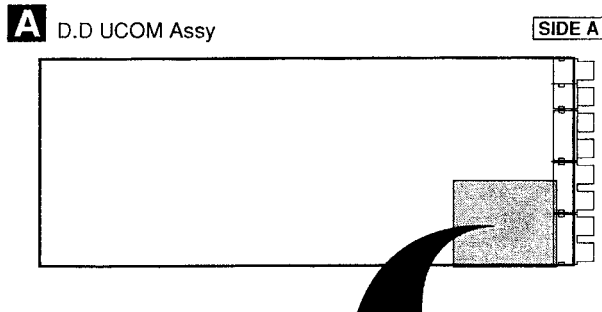
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PCB Location

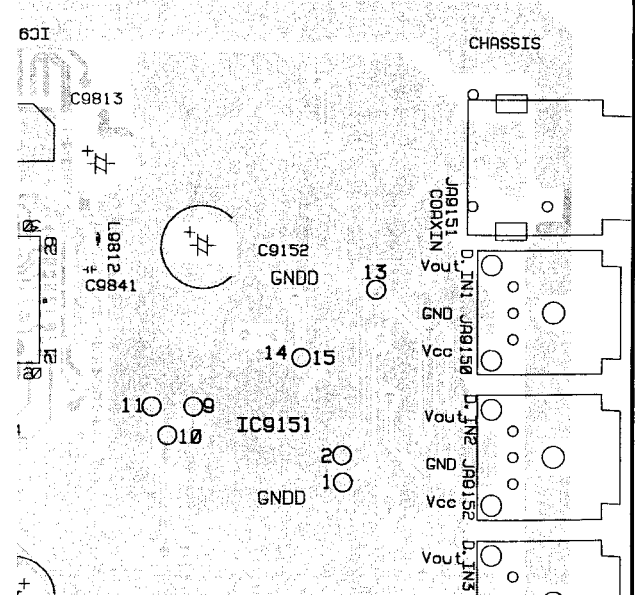
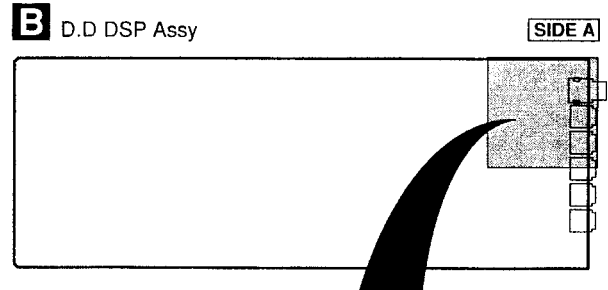


Diagnosis of D.D UCOM Assy and D.D DSP Assy

Please check IC101(Function IC) mounted on SIDE B from SIDE A.
The Pin number points on SIDE A of IC101 are shown as follows.



Please check IC9151(Digital Selector IC) mounted on SIDE B from SIDE A.
The Pin number points on SIDE A of IC9151 are shown as follows.



7.2 PARTS

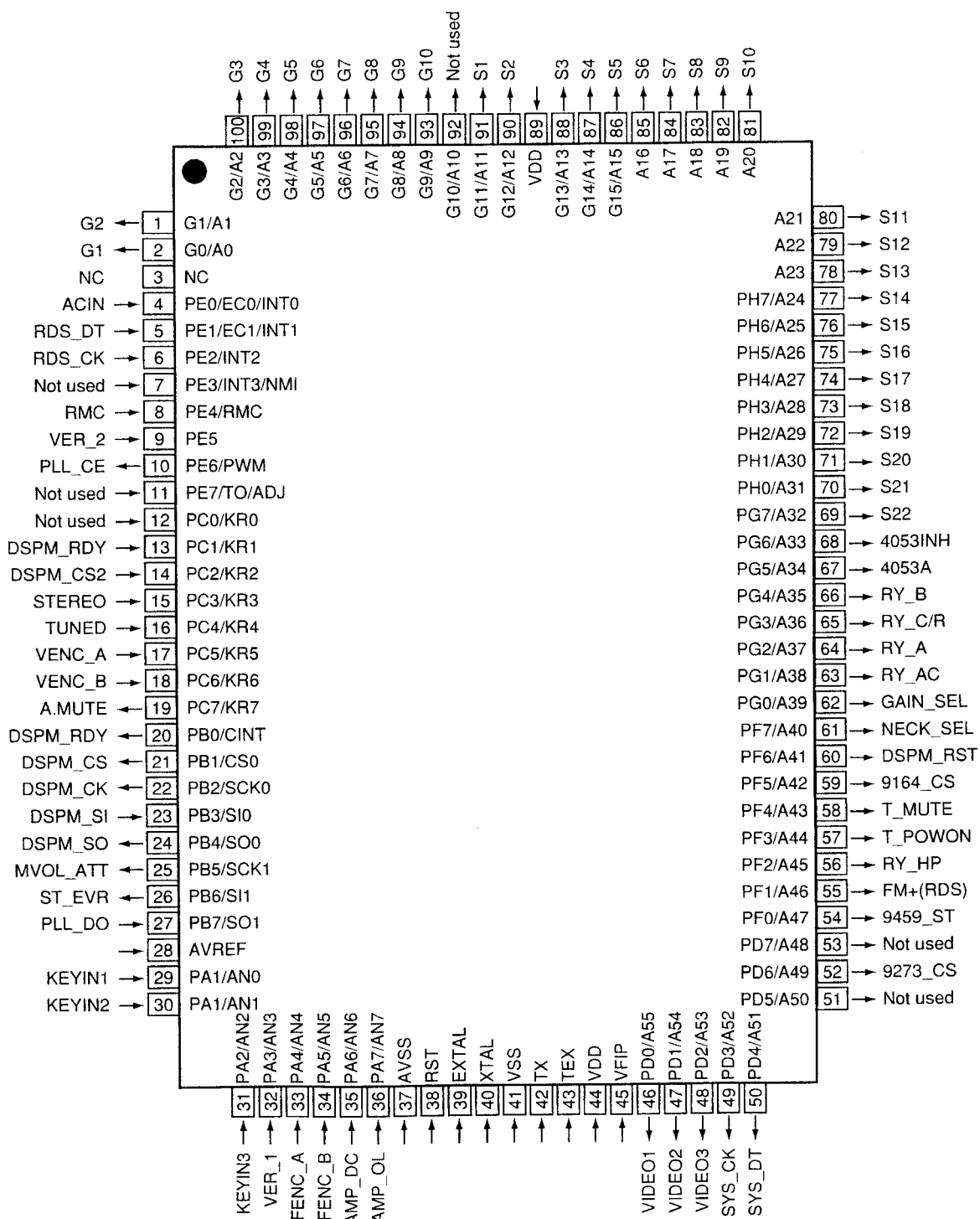
7.2.1 IC

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

■ PDG261A (FRONT ASSY : IC401)

• System Control MCU

• Pin Arrangement (Top View)



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● Pin Function

No.	Pin Name	I/O	Pin Function	Active
1	G2	O	Grid output 2	H
2	G1	O	Grid output 1	H
3	NC	-	Connect to VDD	
4	ACIN	I	AC pulse input	
5	RDS_DT	I	Serial control DATA signal of RDS communication	
6	RDS_CK	I	Serial control CLOCK signal of RDS communication	
7	Not used	I	Connect to GND	
8	RMC	I	Remote control signal input (no-carrier signal)	
9	VER_2	I	Destination switch 2	
10	PLL_CE	O	Chip select signal for communication with LC72131 (tuner)	H
11	Not used	O		
12	Not used	O		
13	DSPM_RDY	I	DSP Micro Computer READY input	
14	DSPM_CS2	I	CS input for DSP Micro Computer	
15	STEREO	I	Stereo/Monoral signal judgment signal	
16	TUNED	I	TUNED information	
17	ENC_A	I	EVOL Rotary encoder signal input A	
18	ENC_B	I	EVOL Rotary encoder signal input B	
19	AMUTE	O	Audio mute	L
20	DSPM_RDY	O	RADY of DSP Micro Computer communication	
21	DSPM_CS1	O	Chip select output for control of DSP Micro Computer	L
22	DSPM_CK	O	Clock signal for communication with DSP Micro Computer	H
23	DSPM_SI	I	DATA input signal for communication with DSP Micro Computer	
24	DSPM_SO	O	DATA output signal for communication with DSP Micro Computer	H
25	MVRATT	O	ATT control of master volume (L : Less than -15dB)	H
26	ST_EVR	O	Strobe signal for communication with electric volume IC	H
27	PLL_DO	I	Data input signal for communication with LC72131 (tuner)	
28	AVref	-	Connect to VDD	
29	KEYIN1	I	Key input A/D conversion port 1	
30	KEYIN2	I	Key input A/D conversion port 2	
31	KEYIN3	I	Key input A/D conversion port 3	
32	VER_1	I	Destination switch (A/D input)	
33	FENC_A	I	FUNC Rotary encoder signal input A	
34	FENC_B	I	FUNC Rotary encoder signal input B	
35	AMP_DC	I	DC abnormality detection of protection circuit (L : Abnormality detection) *1	L
36	AMP_OL	I	Over-load detection of protection circuit (L : Abnormality detection) *2	L
37	AVSS	-	Connect to VSS	
38	RST	-	Reset	
39	EXTAL	-	Connect to the oscillator (7.2MHz)	
40	XTAL	-		
41	VSS	-	Connect to VSS	
42	TX	-	Open	
43	TEX	-	Connect to VSS	
44	VDD	-	+5V	
45	VFDP	-	-30V	
46	VIDEO1	O	NJM2296D control	H
47	VIDEO2			
48	VIDEO3			
49	SYS_DT	O	Data signal for communication with M62446, TC9163, TC9164 and PLL	H
50	SYS_CK	O	Clock signal for communication with M62446, TC9163, TC9164 and PLL	H

*1 : When DC voltage was output from amplifier, "POWER OFF" is displayed at FL display.

*2 : When the output of amplifier became overload state, "OVER LOAD" is displayed at FL display.

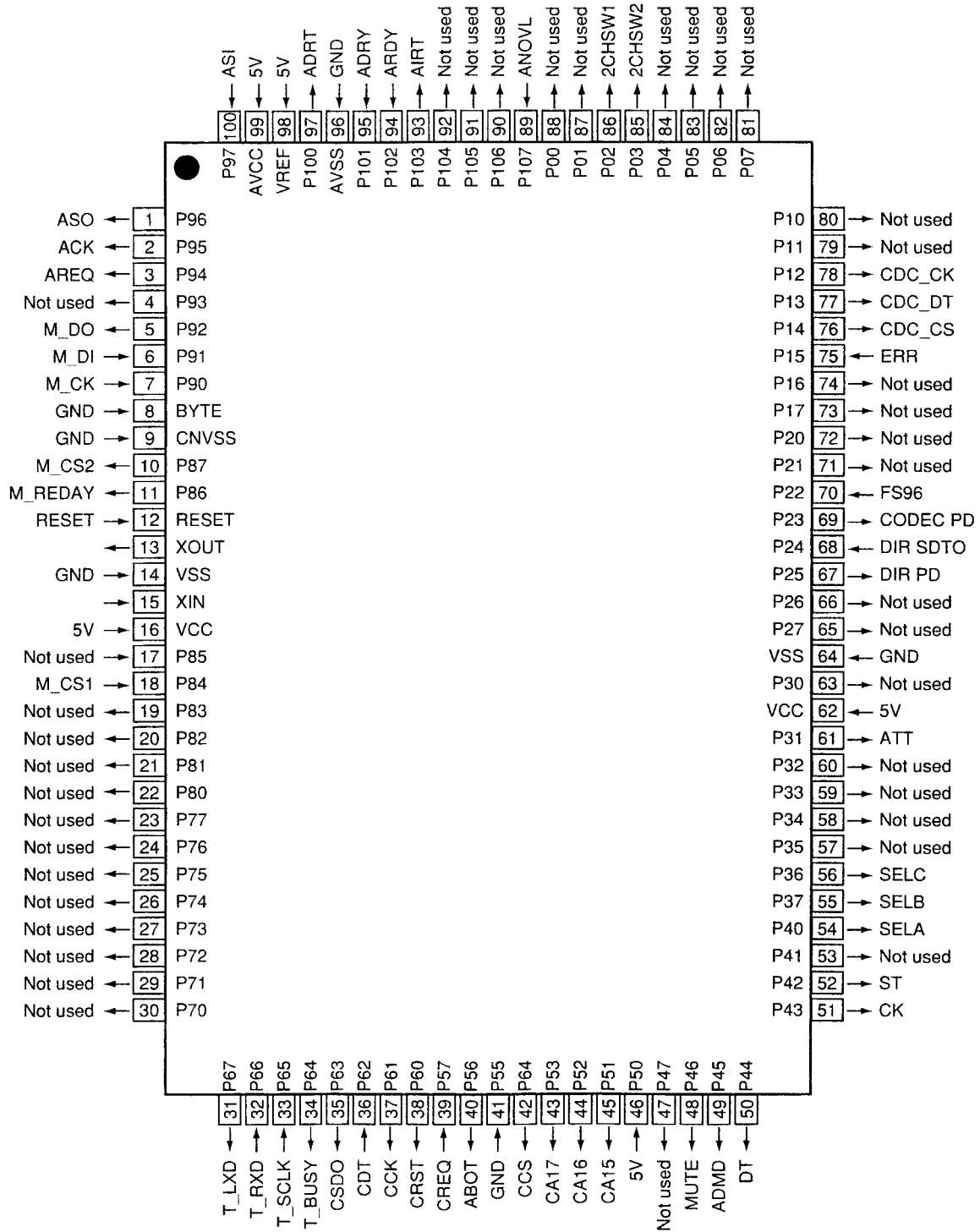
No.	Pin Name	I/O	Pin Function	Active
51	Not used			
52	9273_CS	O	TC9273 Chip select	H
53	Not used	O		
54	9459_ST	O	Electronic volume TC5496 Strobe for SB	H
55	FM+(RDS)	O	Tr switch ON/OFF for power supply of RDS decoder (L : AM, power OFF , H : Other)	H
56	RY_HP	-	HP relay ON/OFF	H
57	T_POWON	O	Tuner module ON/OFF (North America model only)	H
58	T_MUTE	O	Tuner mute	H
59	9164 CS	O	TC9163, TC9164 Chip select	
60	DSP_RST	O	DSP Micro Computer reset	
61	NECK_SEL	O	5.1ch, surround mode and A+B Stereo : H / Stereo : L	
62	GAIN_SEL	O	Gain select (5.1ch and Stereo of analog input : H)	H
63	RY_AC	O	AC relay ON/OFF	H
64	RY_A	O	Speaker A relay ON/OFF	H
65	RY_C/R	O	Rear/Center Speaker relay ON/OFF	H
66	RY_B	O	Speaker B relay ON/OFF	H
67	4053A	O	Component terminal control	H
68	4053INH	O	Component terminal control	H
69	S22	O	Segment output 22	H
70	S21		Segment output 21	
71	S20		Segment output 20	
72	S19		Segment output 19	
73	S18		Segment output 18	
74	S17		Segment output 17	
75	S16		Segment output 16	
76	S15		Segment output 15	
77	S14		Segment output 14	
78	S13		Segment output 13	
79	S12		Segment output 12	
80	S11		Segment output 11	
81	S10		Segment output 10	
82	S9		Segment output 9	
83	S8		Segment output 8	
84	S7		Segment output 7	
85	S6		Segment output 6	
86	S5		Segment output 5	
87	S4		Segment output 4	
88	S3		Segment output 3	
89	VDD	-	5V	
90	S2	O	Segment output 2	H
91	S1	O	Segment output 1	
92	Not used	O	Not used (Fixed Vfdp)	
93	G10	O	Grid output 10	H
94	G9		Grid output 9	
95	G8		Grid output 8	
96	G7		Grid output 7	
97	G6		Grid output 6	
98	G5		Grid output 5	
99	G4		Grid output 4	
100	G3		Grid output 3	

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■ PD5634A (D.D UCOM ASSY : IC5901)

• Receiver Control microcomputer

• Pin Arrangement (Top View)



● Pin Function

No.	Pin Name	I/O	Pin Function	Active
1	ASO	O	AK7706 DATA output	
2	ACK	O	AK7706 CLOCK output	
3	AREQ	O	AK7706 REQ	
4	Not used	O		
5	M_DO	O	DATA OUT to Main microcomputer	
6	M_DI	I	DATA IN from Main microcomputer	
7	M_CK	I	CLOCK IN for Main microcomputer communication	
8	BYTE	I	GND	
9	T_PGM/OE	I	Pull down to CNVss, GND (For FLASH rewriting)	
10	M_CS2	O	CS output for Main microcomputer communication	
11	M_READY	O	READY output for Main microcomputer communication	
12	RESET	-	Reset (from Main microcomputer)	
13	XOUT	-	Oscillator	
14	VSS	-	GND	
15	XIN	-	Oscillator	
16	VCC	-	5V	
17	MN1	I	5V	
18	M_CS1	I	CS input for Main microcomputer communication	
19	Not used	O		
20	Not used	O		
21	Not used	O		
22	Not used	O		
23	Not used	O		
24	Not used	O		
25	Not used	O		
26	Not used	O		
27	Not used	O		
28	Not used	O		
29	Not used	O		
30	Not used	O		
31	TXD	O	For FLASH rewriting	
32	RXD	I	For FLASH rewriting	
33	T-SCLK	I	For FLASH rewriting	
34	T-BUSY	O	For FLASH rewriting	
35	CSDO	O	DATA OUT for Crystal DSP	
36	CDT	I	DATA IN for Crystal DSP	
37	CCK	O	CLK for Crystal DSP	
38	CRST	O	RESET for Crystal DSP	
39	CREQ	I	REQ for Crystal DSP	
40	ABOT	O	ABOOT for Crystal DSP	
41	VSS	-		
42	CCS	O	CS for Crystal DSP	
43	CA17	O	For Crystal DSP	
44	CA16	O	For Crystal DSP	
45	CA15	O	For Crystal DSP	
46	T-Vdd	I	5V	
47	Not used	O		
48	MUTE	O	For E-SW (TC9164)	
49	ADMD	O	For E-SW (TC9164)	
50	DT	O	For E-SW (TC9164)	

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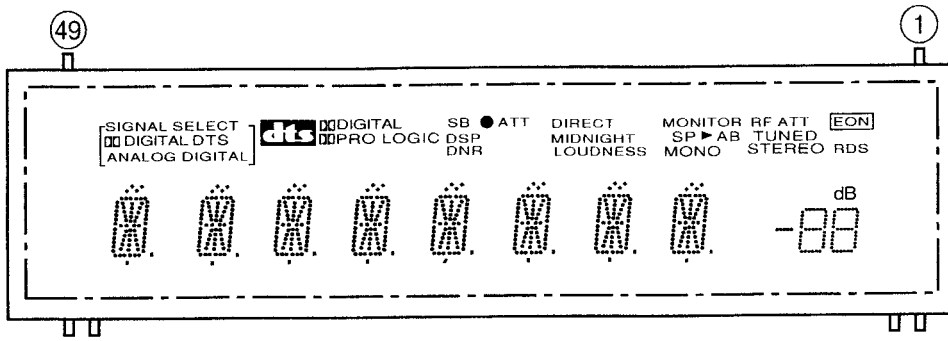
No.	Pin Name	I/O	Pin Function	Active
51	CK	O	For E-SW (TC9164)	
52	ST	O	For E-SW (TC9164)	
53	Not used	O		
54	SELA	O	For LOGIC IC, TC74ACT151F	
55	SELB	O	For LOGIC IC, TC74ACT151F	
56	SELC	O	For LOGIC IC, TC74ACT151F	
57	Not used	O		
58	Not used	O		
59	Not used	O		
60	Not used	O		
61	ATT	O	ATT output	
62	VCC	-	5V	
63	Not used	O		
64	VSS	-	GND	
65	Not used	O		
66	Not used	O		
67	DIR_PD	O	Power down for DIR	
68	DIR_SDTO	I	DIR DATA IN	
69	CDC_PD	O	Power down for CODEC	
70	FS96	I	96K	
71	Not used	O		
72	Not used	O		
73	Not used	O		
74	Not used	O		
75	ERR	I	DIR	
76	CDC_CS	O	CS for CODEC communication	
77	CDC_DT	O	DATA OUT for CODEC communication	
78	CDC_CK	O	Clock for CODEC communication	
79	Not used	O		
80	Not used	O		
81	Not used	O		
82	Not used	O		
83	Not used	O		
84	Not used	O		
85	2CHSW2	O	For TC9215 control (SW H : PASSIV, L : POWERED)	
86	2CHSW1	O	For TC9215 control (SB H : DSP, L : 6CH)	
87	Not used	O		
88	Not used	O		
89	ANOV	I	Analog input overload detection (A/D)	
90	Not used	O		
91	Not used	O		
92	Not used	O		
93	AIRT	O	AK7706DSP INIT reset (control it only in a power start)	
94	ARDY	I	AK7706 writing READY input	
95	ADRY	I	AK7706 output data READY input	
96	AVSS	-	GND	
97	ADRT	O	AK7706 DSP reset	
98	VREF	-	5V	
99	AVCC	-	5V	
100	ASI	I		

7.2.2 DISPLAY

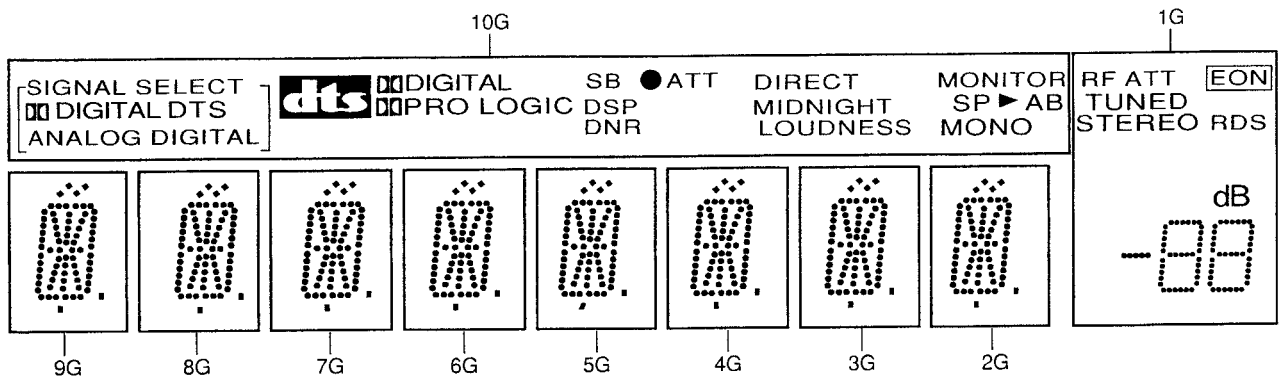
■ XAV3010 (FRONT ASSY : V401)

• FL DISPLAY

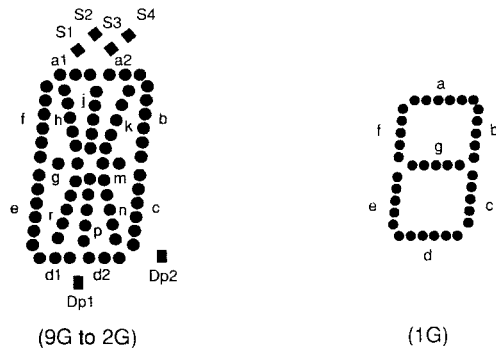
• Pin Assignment



• Grid Assignment



• Segment Designation




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• Pin Connection

Pin No.	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25
Connection	F2	F2	NP	NP	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2
Pin No.	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
Connection	P1	NX	NX	NX	NX	NX	NX	NX	NX	NX	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F1	F1	

- NOTE
- 1) F1, F2..... Filament
 - 2) NP..... No pin
 - 3) NX..... No extend pin
 - 4) DL..... Datum Line
 - 5) 1G to 10G..... Grid
 - 6) Field of vision is a minimum of 29° from the lower side.

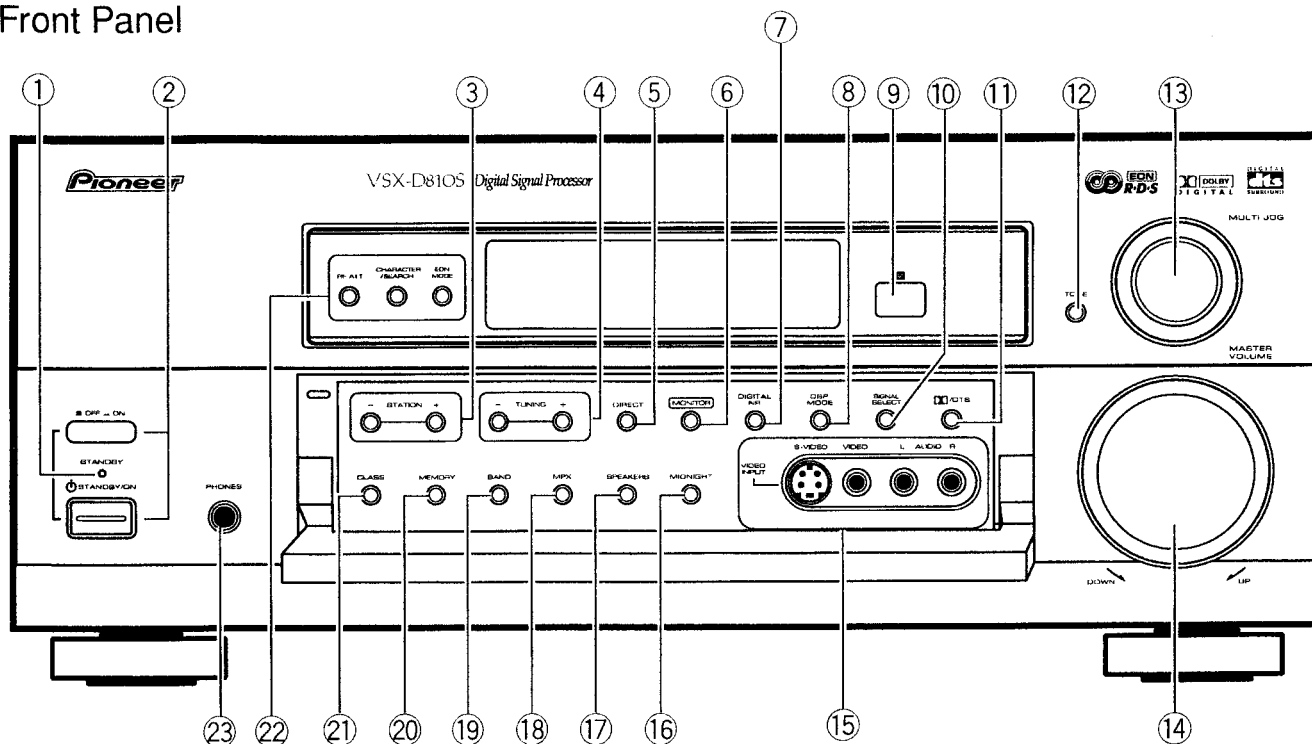
• Anode Connection

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	MONO	a1	a1	a1	a1	a1	a1	a1	a1	dB
P2	B	a2	a2	a2	a2	a2	a2	a2	a2	2a
P3	A	h	h	h	h	h	h	h	h	2b
P4	SP ►	j	j	j	j	j	j	j	j	2f
P5	MONITOR	k	k	k	k	k	k	k	k	2g
P6	LOUDNESS	b	b	b	b	b	b	b	b	2c
P7	MIDNIGHT	f	f	f	f	f	f	f	f	2e
P8	DIRECT	m	m	m	m	m	m	m	m	2d
P9	DNR	g	g	g	g	g	g	g	g	1a
P10	ATT	c	c	c	c	c	c	c	c	1b
P11	●	e	e	e	e	e	e	e	e	1f
P12	DSP	r	r	r	r	r	r	r	r	1g
P13	SB	p	p	p	p	p	p	p	p	1c
P14	PRO LOGIC	n	n	n	n	n	n	n	n	1e
P15	DIGITAL	d1	d1	d1	d1	d1	d1	d1	d1	1d
P16	ds	d2	d2	d2	d2	d2	d2	d2	d2	----
P17	ANALOG	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	RDS
P18	DIGITAL	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	RF ATT
P19	[]	S1	S1	S1	S1	S1	S1	S1	S1	EON
P20	DTS	S4	S4	S4	S4	S4	S4	S4	S4	
P21	DIGITAL	S2	S2	S2	S2	S2	S2	S2	S2	TUNED
P22	SIGNAL SELECT	S3	S3	S3	S3	S3	S3	S3	S3	STEREO

8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

Front Panel



- ① **STANDBY indicator**
Lights when the receiver is in standby mode (note that the receiver consumes a small amount of power (1W) in standby mode).
- ② **■ OFF/ — ON (Main power) button**
If the button is OFF (■), the power of the receiver is shut off and the **STANDBY/ON** button on the receiver or the **RECEIVER** button on the remote control do not function. Pressing the button again will turn the receiver ON (—) and the receiver enters the standby mode. In the standby mode, you can turn on the receiver using **STANDBY/ON** button on the receiver or the **RECEIVER** button on the remote control.
- **STANDBY/ON button**
Switches the receiver between on and standby (note that the receiver consumes a small amount of power (1W) in standby mode).
- ③ **STATION (+/–) buttons**
Selects station memories when using the tuner.
- ④ **TUNING (+/–) buttons**
Selects the frequency when using the tuner.
- ⑤ **DIRECT button**
Use to switch DIRECT playback on or off. This mode bypasses the tone controls, channel levels, DDD/DTS and DSP modes for the most accurate reproduction of a program source.
- ⑥ **MONITOR button**
Press to switch tape monitoring on/off.
- ⑦ **DIGITAL NR button**
Switches the DIGITAL NR on or off. To reduce extraneous noise switch on DIGITAL NR.
- ⑧ **DSP MODE button**
Use to switch between the various DSP modes available (HALL1, HALL 2, JAZZ, DANCE, THEATER1, THEATER 2, 5/6CH STEREO) and DSP off. Use this button to create different surround sound effects from any stereo source.
- ⑨ **Remote sensor**
Receives the signals from the remote control.
- ⑩ **SIGNAL SELECT button**
Use to select an analog or digital or AUTO signal.
- ⑪ **DDD/DTS button**
Use to switch between the various DDD/DTS surround modes.
- ⑫ **TONE button**
This button allows you to activate the BASS & TREBLE controls. To adjust the BASS and/or TREBLE use the MULTI JOG dial. Tone can only be used in 2 channel stereo sound mode. The tone controls have no effect on the B speaker system.
- ⑬ **MULTI JOG dial**
You can use this dial for two purposes. Firstly, in normal mode turn it to select a source component. Secondly, use it to adjust the BASS and/or TREBLE levels when the TONE button has been activated (as explained above).
- ⑭ **MASTER VOLUME**
Use to set the overall listening volume.
- ⑮ **VIDEO INPUT jacks**
Connect a video camera, video game system, etc. to the VIDEO INPUT jacks.
- ⑯ **MIDNIGHT button**
Use when listening to movie soundtracks at low volume. This feature will enable you to hear quiet sounds and not get jolted by loud or sudden sound effects.

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17 SPEAKERS button

Use to switch the speaker system **A → B → A+B → off**. In **B** and **A+B** speaker modes you hear only 2 channel stereo sound.

18 MPX button

If there is interference or noise during a FM radio broadcast, or the radio reception is weak, press the **MPX** button to switch the receiver into mono reception mode. This should improve the sound quality and allow you to enjoy the broadcast.

19 BAND button

Press to select the AM or FM band.

20 MEMORY button

Press to memorize a station for recall using the **STATION (+/-)** buttons.

21 CLASS button

Switches between the three banks (classes) of station memories.

22 RF ATT button

Use to lower the input level of a radio signal that is too powerful or contains interference thus causing the receiver to distort

CHARACTER/SEARCH button

Use to search for different program types in RDS mode. It is also used to input station names.

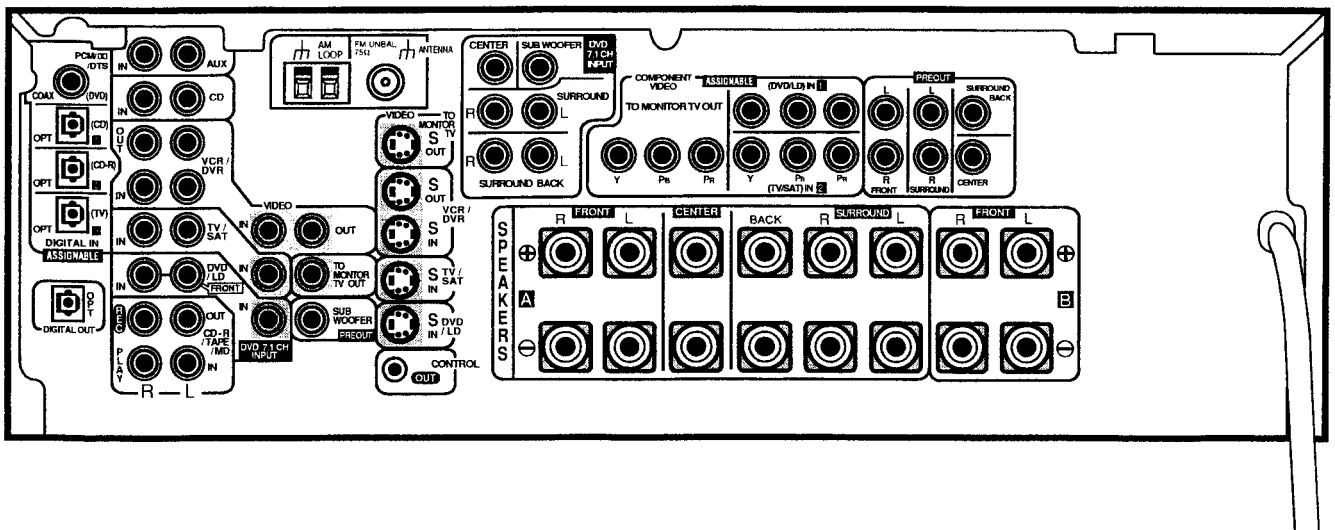
EON MODE button

Use to search for different programs that are transmitting traffic or news information (this search method is called EON).

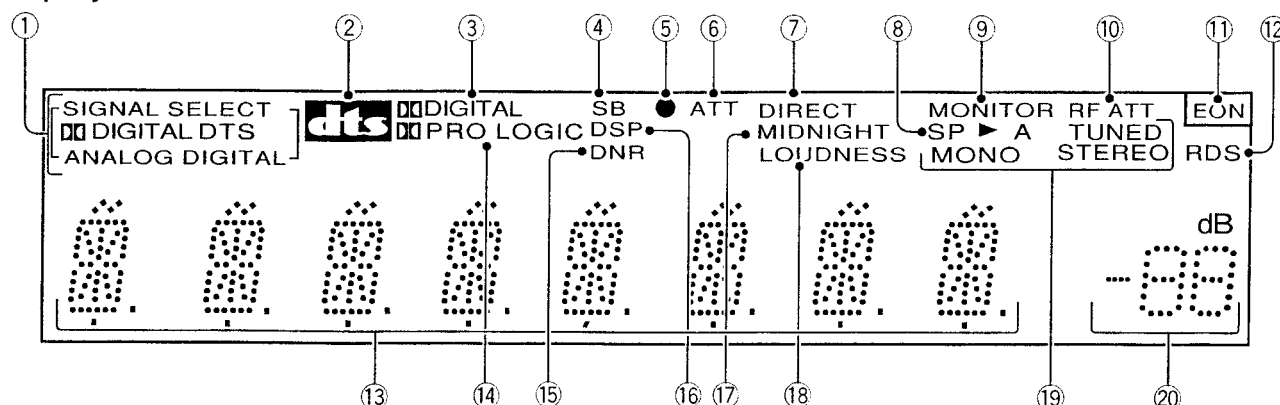
23 PHONES jack

Use to connect headphones but this does not switch the speakers off.

Rear Panel



Display



① SIGNAL SELECT indicators

Light to indicate the type of input signal assigned for the current component (see "Front Panel", ⑩ SIGNAL SELECT). When the AUTO setting is being used on the VSX-D810S receiver a set of brackets will appear around the SIGNAL SELECT indicators.

DIGITAL : Lights when a Dolby Digital signal is played.

DTS : Lights when a source with DTS audio signals is played.

ANALOG : Lights when an analog signal is selected.

DIGITAL : Lights when a digital audio signal is selected.

[] : Lights when the AUTO setting is selected.

② DTS indicator

Lights when DTS mode is being used.

③ DIGITAL indicator

When the **DIGITAL** (DOLBY)/DTS mode of the receiver is on, this lights to indicate playback of a Dolby Digital signal. However, **PRO LOGIC** lights during two channel playback of Dolby Digital.

④ Surround Back indicator

Lights when most Surround Back channel flag encoded (6.1 channel) software is playing. (With some Surround Back channel software the surround back indicator won't light because there is no flag encoded in the software.) If you play DTS 5.1/6.1 channel software surround sound will be heard whether it is encoded with a surround back channel flag or not.

⑤ OVERLOAD indicator

This lights when an analog signal is too high (the **SIGNAL SELECT** would have to be on ANALOG). It indicates the sound is distorting and the input signal should be reduced.

⑥ ATT indicator

Lights when ATT is used to attenuate (reduce) the level of the input signal (can only be used in ANALOG mode).

⑦ DIRECT indicator

Lights when source DIRECT is in use. This function bypasses all tone, balance, DSP and Dolby Surround effects.

⑧ SPEAKER indicator

Shows if the speaker system is on or not. SP ► A means that speakers are switched on. SP ► means that speakers are switched off.

⑨ MONITOR indicator

Lights when **MONITOR** is selected. Used to hear a recording as it's being made.

⑩ RF ATT indicator

Lights when the RF ATT is on.

⑪ EON indicator

The box around **EON** indicator lights to inform you that the currently tuned station carries the EON data service. When the EON mode is set, the **EON** indicator light's, but during actual reception of an EON broadcast the **EON** indicator will flash. An empty box in the **EON** indicator spot means it is possible to pick up an EON broadcast but the receiver has not been set to do so (this will only appear when RDS is switched on).

⑫ RDS indicator

Lights when an RDS broadcast is received.

⑬ CHARACTER display

Shows the radio frequency or function (DVD/LD, CD, etc.) receiver is using .

⑭ PRO LOGIC indicator

When the **DIGITAL**/DTS mode of the receiver is on, this lights to indicate playback of a two channel source.

⑮ DNR indicator

Lights when the digital noise reduction is on. Use to reduce extraneous noise. It can be used with any sound mode.

⑯ DSP indicator

Lights when any "Advanced Theater" or "DSP" mode is selected.

⑰ MIDNIGHT indicator

Lights when MIDNIGHT listening mode is in use.

⑱ LOUDNESS indicator

Lights when the LOUDNESS is on. Use to boost the bass and treble at low volume.

⑲ TUNER indicators

MONO:

Lights when the mono mode is set using the MPX button.

TUNED:

Lights when a broadcast is being received.

STEREO:

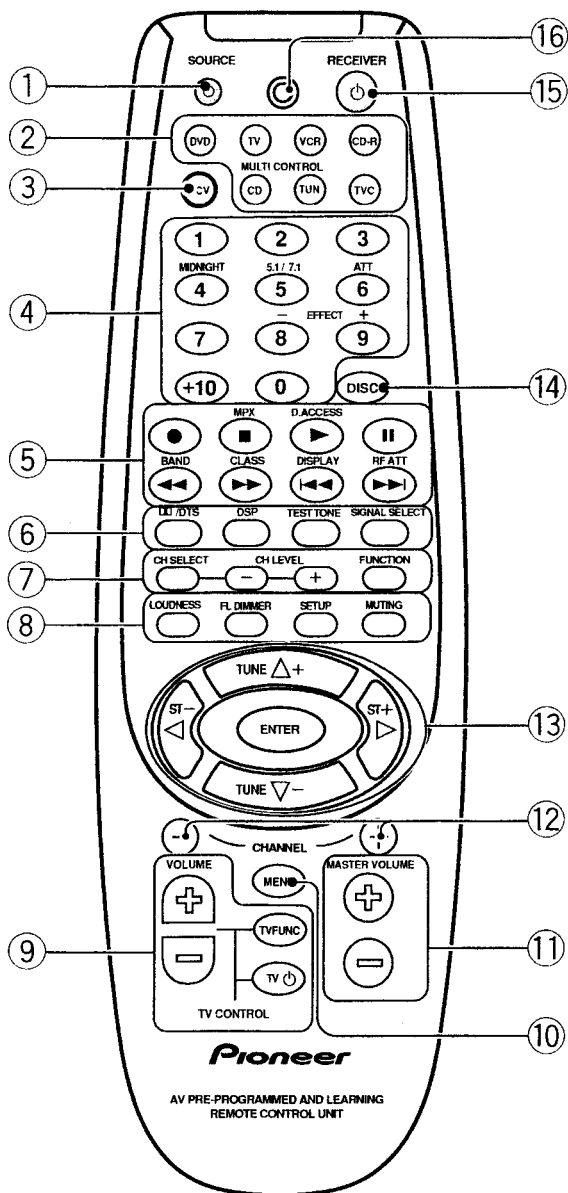
Lights when a stereo FM broadcast is being received in auto stereo mode.

⑳ MASTER VOLUME LEVEL

Shows the overall volume level. Volume level is maintained even when the power is off. ---dB indicates the minimum level, and 0dB indicates the maximum level.

VSX-D810S

Remote Control



① SOURCE button

Use to turn on/off other components connected to the receiver.

② MULTI CONTROL buttons

Use to put the receiver/remote control in the stated mode.

For other equipment controls, see "Controlling the Rest of Your System".

③ RCV button

Use this button when setting up the surround sound for the receiver. Also press it if you want to use special features attached to some of the number buttons, for example MIDNIGHT, 5.1/7.1, EFFECT +/- or ATT.

④ NUMBER/MODE buttons

Use the number buttons to select the radio frequency in tuner DIRECT ACCESS mode or the tracks in CD, DVD mode etc.

Also, buttons marked with the following names have special functions. If you try to use one of these functions but the display flashes it means that function cannot be used in the current mode (for example DSP modes cannot be used when 5.1 Ch (VSX-D710S)/ 7.1 Ch (VSX-D810S) setting is on).

MIDNIGHT button

Use to put receiver in **MIDNIGHT** mode. To use first press the **RCV** button then operate this button.

5.1/7.1 button

(VSX-D810S is 7.1 Ch)

When the DVD/LD or DVD 5.1/7.1 Ch function is selected each press switches the DVD/LD input between DVD/LD and DVD 5.1/7.1 Ch. To use first press the **RCV** button then operate this button.

ATT button

When the overload indicator lights use this button to attenuate (lower) the level of an analog input signal and prevent distortion. To use first press the **RCV** button then operate this button.

EFFECT +/- buttons

Use to add or subtract the amount of effect in different DSP sound modes (except 6 Ch Stereo) or advanced listening modes.

To use first press the **RCV** button then operate these buttons.

⑤ THE FOLLOWING BUTTONS ARE BOTH CONTROLS FOR OTHER COMPONENTS (LIKE A DVD PLAYER) AND DEDICATED TUNER CONTROLS. THE TUNER CONTROLS ARE EXPLAINED HERE. YOU CAN USE THEM AFTER YOU HAVE PUSHED THE TUNER MULTI CONTROL BUTTON.

BAND button

Use to switch between the AM and FM band when in TUNER mode.

CLASS button

Use to switch between the three banks (classes) of station memories.

MPX button

Use to switch between auto stereo and mono reception of FM broadcasts. If the signal is weak then switching to MONO will improve the sound quality.

D. ACCESS button

Use to directly access a radio station by pressing the number of the station you want.

DISPLAY button

Use to display the RDS information.

RF ATT button

Use to lower the input level of a radio signal that is too powerful or contain interference thus causing the receiver to distort.

- ⑥ **DD /DTS button**
Use to put the receiver in DOLBY DIGITAL, DOLBY SURROUND and DTS modes. To use first press the **RCV** button then operate this button.
- DSP button**
Use to put receiver in one of the DSP modes. To use first press the **RCV** button then operate this button.
- TEST TONE button**
Use to sound the TEST TONE when setting up the surround sound of the receiver (the **DD /DTS** mode must be on). To use first press the **RCV** button then operate this button.
- SIGNAL SELECT**
Use to select the proper signal (analog, digital) for the source your are inputting. On the VSX-D810S receivers there is an AUTO setting. In this setting the receiver will automatically switch between the analog and digital signals according to what is being input. If both signals are input the AUTO setting will choose the digital one. This setting is convenient as the receiver will always choose the best or appropriate signal. To use first press the **RCV** button then operate this button.
- ⑦ **CH SELECT button**
Use to select a speaker when setting up the surround sound of the receiver.
- CH LEVEL +/-**
Use to set up the levels of the surround sound of the receiver.
- FUNCTION button**
Use to select the playback or recording source. This button lets you cycle through the different functions of the receiver in the following order: CD, TUNER, AUX, CDR/TAPE, VCR/DVR, DVD/LD, DVD 7.1 ch, VIDEO, and TV/ SAT.
- ⑧ **LOUDNESS button**
Use to switch on the loudness. This feature is useful for getting good bass and treble sounds listening at low volumes.
- FL DIMMER button**
Use this button to make the fluorescent display (FL) dimmer or brighter. There are three brightness settings as well as an off setting.
- SETUP button**
Use this button when setting up the remote control to control other components.
- MUTING button**
Use to mute the sound or restore the sound if it has been muted.
- ⑨ **THE FOLLOWING BUTTONS ARE DEDICATED TV CONTROL BUTTONS. THEY ARE ONLY USED FOR CONTROLLING YOUR TV.**
- TV FUNC button**
Use to select the TV function.
- TV \odot button**
Use to turn on/off the power of the TV.
- TV VOLUME +/- buttons**
Use to adjust the volume on your TV.
- ⑩ **MENU button**
Use to access different menus associated with your DVD player. To use first press the **DVD** button then operate this button.
- ⑪ **MASTER VOLUME +/- buttons**
Use to set the overall listening volume.
- ⑫ **CHANNEL +/- buttons**
Use to skip tracks backward or forward on CDs, DVDs, etc and change channels on the VCR, DVR, etc.
- ⑬ **$\triangleleft \triangleright \triangle \nabla$ (TUNE/ST +/-) & ENTER buttons**
Use these arrow buttons when setting up your surround sound system. These buttons are also used to control DVD menus/options and for deck 1 of a double cassette deck player. The TUNE/ST +/- buttons can be used to find radio frequencies and preset stations, respectively .
- ⑭ **DISC button**
Use to select a disc and a multi-CD player. To use first press the **CD** button then operate this button.
- ⑮ **RECEIVER \odot (POWER) button**
This switches between STANDBY mode and power ON for this receiver.
- ⑯ **LED DISPLAY**
This display flashes when a command is sent from the remote control to the receiver. It also flashes at other times, for example when teaching the receiver preset codes, with specific meanings.

VSX-D810S

8.2 SPECIFICATIONS

Amplifier Section

Continuous Power Output (STEREO MODE)
FRONT 100 W + 100 W (DIN 1 kHz, THD 1 %, 8 Ω)

Continuous Power Output (SURROUND MODE)
FRONT 100 W/ch (1 kHz, THD 1 %, 8 Ω)
CENTER 100 W (1 kHz, THD 1 %, 8 Ω)
SURROUND 100 W/ch (1 kHz, THD 1 %, 8 Ω)
SURROUND BACK 100 W/ch (1 kHz, THD 1 %, 8 Ω)

- Above specifications are applicable when the power supply is 230V.

Input (Sensitivity/Impedance)

CD, AUX, VCR/DVR, CD-R/TAPE/MD, DVD/LD,
TV/SAT, VIDEO 200 mV/47 kΩ

Frequency Response

CD, AUX, VCR/DVR, CD-R/TAPE/MD, DVD/LD,
TV/SAT, VIDEO 5 Hz to 100,000 Hz ± 3 dB

Output (Level/Impedance)

VCR/DVR OUT, CD-R/TAPE/MD REC 200 mV/2.2 kΩ

Tone Control

BASS ± 6 dB (100 Hz)
TREBLE ± 6 dB (10 kHz)
LOUDNESS +9 dB (100 Hz/10 kHz)

Signal-to-Noise Ratio

[DIN (Continuous rated power output/50 mW)]
CD, AUX, VCR/DVR, CD-R/TAPE/MD, DVD/LD,
TV/SAT, VIDEO 88 dB/64 dB

VIDEO Section

Input (Sensitivity/Impedance)
VCR/DVR, DVD/LD, TV/SAT 1 Vp-p/75 Ω

Output (Level/Impedance)

VCR/DVR, TO MONITOR TV OUT 1 Vp-p/75 Ω

Frequency Response

VCR/DVR, DVD/LD, TV/SAT → MONITOR
..... 5 Hz to 7 MHz ± 3 dB

Signal-to-Noise Ratio 55 dB

COMPONENT VIDEO Section

Input (Sensitivity/Impedance)
DVD/LD, TV/SAT 1 Vp-p/75 Ω

Output (Level/Impedance)

TO MONITOR TV OUT 1 Vp-p/75 Ω

FM Tuner Section

Frequency Range 87.5 MHz to 108 MHz
Usable Sensitivity Mono:13.2 dBf, IHF (1.3 μV/ 75 Ω)
50 dB Quieting Sensitivity Mono: 20.2 dB
Stereo: 38.6 dBf
Signal-to-Noise Ratio Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
Signal-to-Noise Ratio (DIN) Mono: 62 dB
Stereo: 58 dB
Distortion Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity 60 dB (400 kHz)
Stereo Separation 40 dB (1 kHz)
Frequency Response 30 Hz to 15 kHz (± 1 dB)
Antenna Input (DIN) 75 Ω unbalanced

AM Tuner Section

Frequency Range 531 kHz to 1,602 kHz
Sensitivity (IHF, Loop antenna) 350 μV/m
Selectivity 30 dB
Signal-to-Noise Ratio 50 dB
Antenna Loop antenna

Miscellaneous

Power Requirements

UK model AC 230 V, 50/60 Hz
European model AC 220 – 230 V, 50/60 Hz

Power Consumption

VSX-D810S 280 W
In Standby 1 W
Dimensions 420 (W) x 158 (H) x 401 (D) mm
Weight (without package)
VSX-D810S 10.5 kg

Furnished Parts

AM loop antenna 1
FM wire antenna 1
Dry cell batteries (AA size IEC R6P) 2
Remote control 1
Operating instructions 1

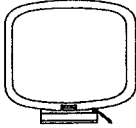


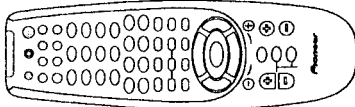
NOTE:

- Specifications and the design are subject to possible modifications without notice, due to improvements.

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Accessories

			
AM loop antenna (ATB7009)	FM wire antenna (ADH7005)	AA size IEC R6P Dry cell batteries (x2)	Remote control unit (XXD3029)