

DENON

For U.S.A. & Canada model

Ver. 1

SERVICE MANUAL

MODEL DRA-697CI

AM-FM STEREO RECEIVER

注意

サービスをおこなう前に、このサービスマニュアルを必ずお読みください。本機は、火災、感電、けがなどに対する安全性を確保するために、さまざまな配慮をおこなっており、また法的には「電気用品安全法」にもとづき、所定の許可を得て製造されております。従ってサービスをおこなう際は、これらの安全性が維持されるよう、このサービスマニュアルに記載されている注意事項を必ずお守りください。

● For purposes of improvement, specifications and design are subject to change without notice.

● Please use this service manual with referring to the operating instructions without fail.

● Some illustrations using in this service manual are slightly different from the actual set.

● 本機の仕様は性能改良のため、予告なく変更することがあります。
● 補修用性能部品の保有期間は、製造打切後8年です。

● 修理の際は、必ず取扱説明書を参照の上、作業を行ってください。

● 本文中に使用しているイラストは、説明の都合上現物と多少異なる場合があります。

DENON

TOKYO, JAPAN
Denon Brand Company, D&M Holdings Inc.

SAFETY PRECAUTIONS

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

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

CAUTION Please heed the points listed below during servicing and inspection.

◎ Heed the cautions!

Spots requiring particular attention when servicing, such as the cabinet, parts, chassis, etc., have cautions indicated on labels or seals. Be sure to heed these cautions and the cautions indicated in the handling instructions.

◎ Caution concerning electric shock!


(1) An AC voltage is impressed on this set, so touching internal metal parts when the set is energized could cause electric shock. Take care to avoid electric shock, by for example using an isolating transformer and gloves when servicing while the set is energized, unplugging the power cord when replacing parts, etc.

(2) There are high voltage parts inside. Handle with extra care when the set is energized.

◎ Caution concerning disassembly and assembly!

Though great care is taken when manufacturing parts from sheet metal, there may in some rare cases be burrs on the edges of parts which could cause injury if fingers are moved across them. Use gloves to protect your hands.

◎ Only use designated parts!

The set's parts have specific safety properties (fire resistance, voltage resistance, etc.). For replacement parts, be sure to use parts which have the same properties. In particular, for the important safety parts that are marked  on wiring diagrams and parts lists, be sure to use the designated parts.

◎ Be sure to mount parts and arrange the wires as they were originally!

For safety reasons, some parts use tape, tubes or other insulating materials, and some parts are mounted away from the surface of printed circuit boards. Care is also taken with the positions of the wires inside and clamps are used to keep wires away from heating and high voltage parts, so be sure to set everything back as it was originally.

◎ Inspect for safety after servicing!


Check that all screws, parts and wires removed or disconnected for servicing have been put back in their original positions, inspect that no parts around the area that has been serviced have been negatively affected, conduct an insulation check on the external metal connectors and between the blades of the power plug, and otherwise check that safety is ensured.

(Insulation check procedure)

Unplug the power cord from the power outlet, disconnect the antenna, plugs, etc., and turn the power switch on. Using a 500V insulation resistance tester, check that the insulation resistance between the terminals of the power plug and the externally exposed metal parts (antenna terminal, headphones terminal, microphone terminal, input terminal, etc.) is 1MΩ or greater. If it is less, the set must be inspected and repaired.

CAUTION Concerning important safety parts

Many of the electric and structural parts used in the set have special safety properties. In most cases these properties are difficult to distinguish by sight, and using replacement parts with higher ratings (rated power and withstand voltage) does not necessarily guarantee that safety performance will be preserved. Parts with safety properties are indicated as shown below on the wiring diagrams and parts lists in this service manual. Be sure to replace them with parts with the designated part number.

(1) Schematic diagrams ... Indicated by the  mark.

(2) Parts lists ... Indicated by the  mark.

Using parts other than the designated parts could result in electric shock, fires or other dangerous situations.

注意 サービス、点検時にはつぎのことにご注意願います。

◎ 注意事項をお守りください！

サービスのとき特に注意を必要とする個所についてはキャビネット、部品、シャーシなどにラベルや捺印で注意事項を表示しています。これらの注意書きおよび取扱説明書などの注意事項を必ずお守りください。

◎ 感電に注意！


(1) このセットは、交流電圧が印加されていますので通電時に内部金属部に触れると感電することがあります。従って通電サービス時には、絶縁トランスの使用や手袋の着用、部品交換には、電源プラグを抜くなどして感電にご注意ください。

(2) 内部には高電圧の部分がありますので、通電時の取扱には十分ご注意ください。

◎ 分解、組み立て作業時のご注意！

板金部品の端面の『バリ』は、部品製造時に充分管理をしておりますが、板金端面は鋭利となっている箇所がありますので、部品端面に触れたまま指を動かすとまれに怪我をする場合がありますので十分注意して作業して下さい。手の保護のために手袋を着用して下さい。

◎ 指定部品の使用！

セットの部品は難燃性や耐電圧など安全上の特性を持ったものとなっています。従って交換部品は、使用されていたものと同じ特性の部品を使用して下さい。特に配線図、部品表に  印で指定されている安全上重要な部品は必ず指定のものをご使用ください。

◎ 部品の取付けや配線の引きまわしは、元どおりに！

安全上、テープやチューブなどの絶縁材料を使用したり、プリント基板から浮かして取付けた部品があります。また内部配線は引きまわしやクランプによって発熱部品や高圧部品に接近しないように配慮されていますので、これらは必ず元どおりにして下さい。

◎ サービス後は安全点検を！


サービスのために取り外したねじ、部品、配線などが元どおりになっているか、またサービスした個所の周辺を劣化させてしまったところがないかなどを点検し、外部金属端子部と、電源プラグの刃の間の絶縁チェックをおこなうなど、安全性が確保されていることを確認してください。


(絶縁チェックの方法)

電源コンセントから電源プラグを抜き、アンテナやプラグなどを外し、電源スイッチを入れます。500V 絶縁抵抗計を用いて、電源プラグのそれぞれの端子と外部露出金属部〔アンテナ端子、ヘッドホン端子マイク端子、入力端子など〕との間で、絶縁抵抗値が 1 MΩ 以上であること、この値以下のときはセットの点検修理が必要です。

注意 安全上重要な部品について

本機に使用している多くの電気部品、および機構部品は安全上、特別な特性を持っています。この特性はほとんどの場合、外観では判別つきにくく、またもとの部品より高い定格（定格電力、耐圧）を持ったものを使用しても安全性が維持されることは、限りません。安全上の特性を持った部品は、このサービスマニュアルの配線図、部品表につぎのように表示していますので必ず指定されている部品番号のものを使用願います。

(1) 配線図…マークで表示しています。

(2) 部品表…マークで表示しています。

指定された部品と異なるものを使用した場合には、感電、火災などの危険を生じる恐れがあります。

ADJUSTMENT

Idling Current

Required measurement equipment: DC Voltmeter

1. Preparation

- (1) Avoid direct blow from an air conditioner or an electric fan, and adjust the unit at normal room temperature 15 °C ~ 30 °C (59 °F ~ 86 °F).
- (2) Presetting
 - POWER (Power source switch) OFF
 - SPEAKER (Speaker terminal) No load
(Do not connect speaker, dummy resistor, etc.)

2. Adjustment

- (1) Remove top cover and set VR501FL, VR501FR on MAIN Unit at fully counterclockwise (◯) position.
- (2) Connect DC Voltmeter to test points (FRONT-Lch: TP501, FRONT-Rch: TP502).
- (3) Connect power cord to AC Line, and turn power switch "ON".
- (4) Presetting.
 MASTER VOLUME : "----" counterclockwise (◯ min.)
 MODE : TONE DEFEAT
 FUNCTION : CD
- (5) Within 2 minutes after the power on, turn VR501FL clockwise (◯) to adjust the TEST POINT voltage to 1.5 mV \pm 0.5 mV DC.
- (6) After 10 minutes from the preset above, turn VR501FL to set the voltage to 2.0 mV \pm 0.5 mV DC.
- (7) Adjust the Variable Resistors of other channels in the same way.

調整

アイドリング電流の調整

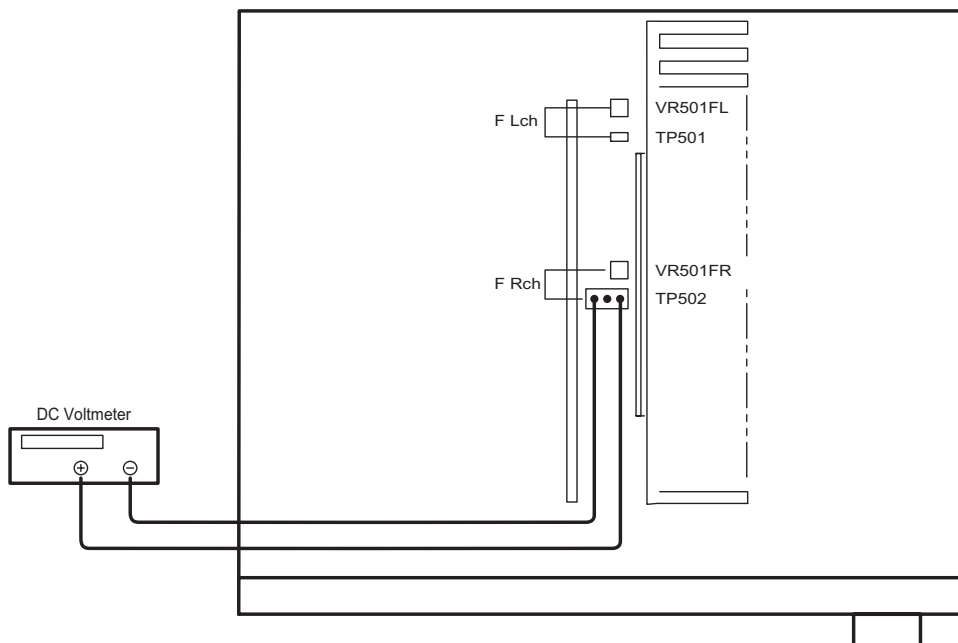
調整に必要な測定器： DC Voltmeter

1. 準備

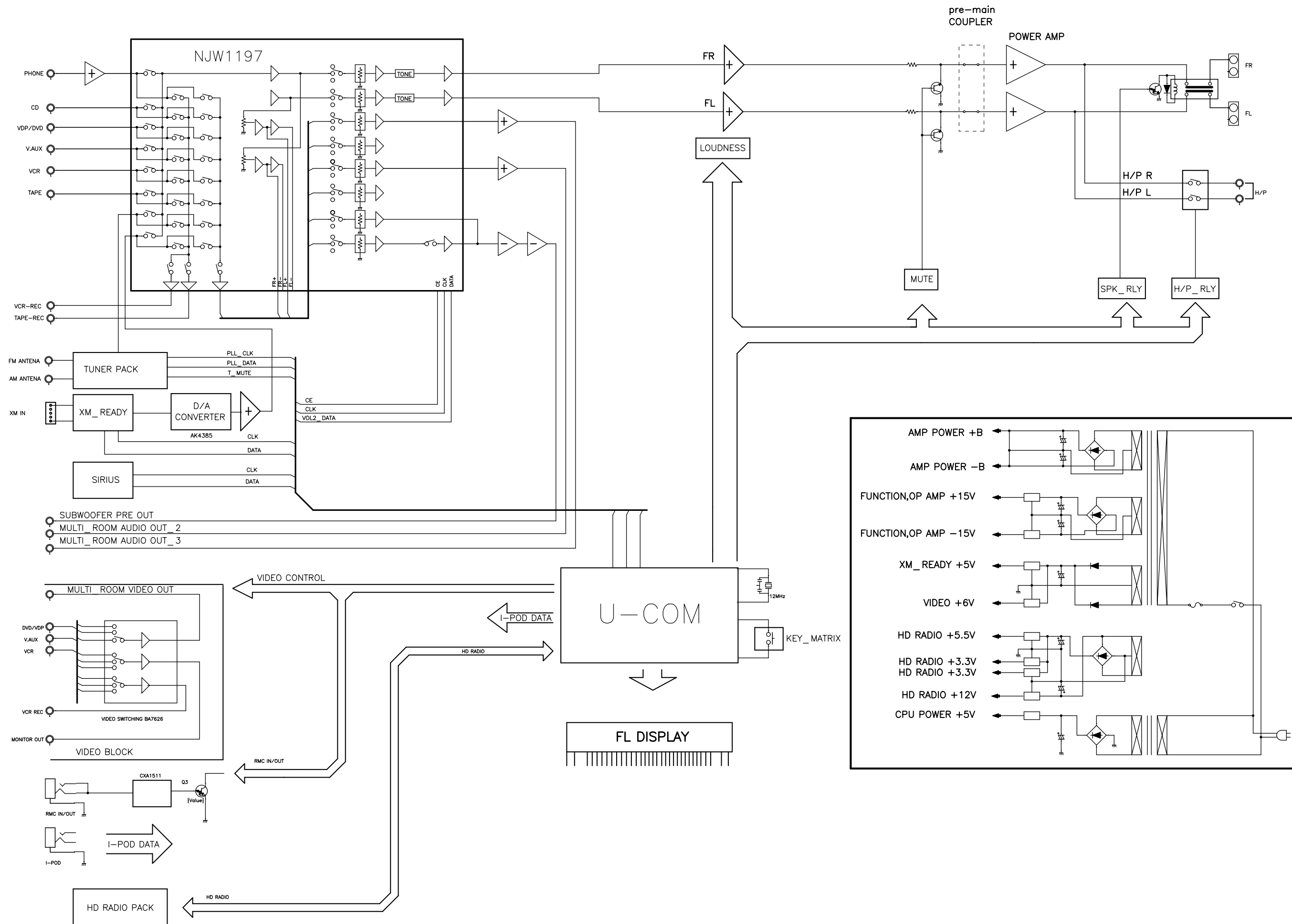
- (1) セットをクーラ、扇風機のそばなど風通しの良い場所を避け、通常の使用状態に置きます。セットの周囲温度は 15 ~ 30 °C、湿度は常湿とします。
- (2) プリセット
 - 電源スイッチ OFF
 - スピーカ端子 無負荷
(スピーカ・ダミー抵抗器などを接続しない。)

2. 調整

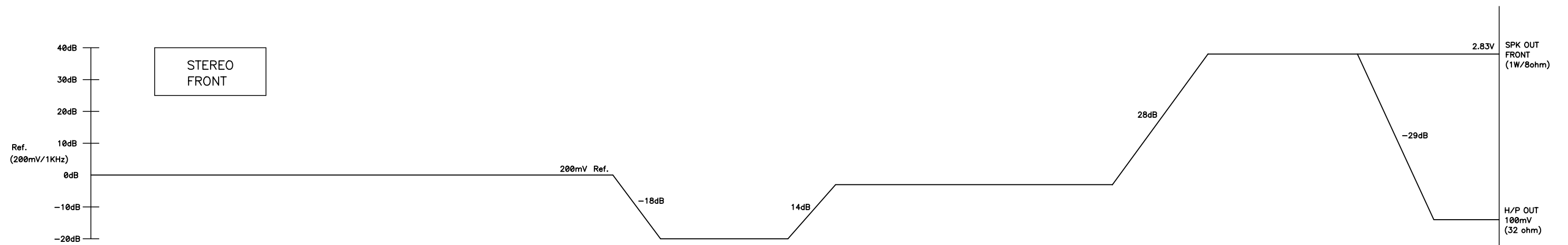
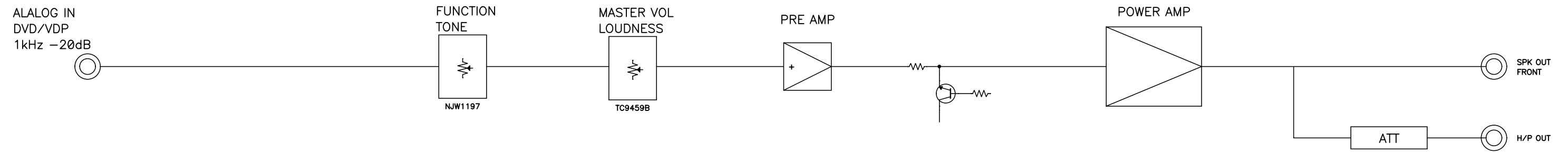
- (1) 上カバーをはずし、メイン基板の VR501FL, VR501FR を反時計方向 (◯) に回し切った状態にセットします。
- (2) テストポイント (FRONT-Lch: TP501, FRONT-Rch: TP502) に DC Voltmeter を接続します。
- (3) 電源コードを AC100V (95 ~ 105V の範囲でも可) に接続し、電源スイッチを "ON" にします。
- (4) ON 後、次のようにセットします。
 - MASTER VOLUME (音量調節つまみ) →反時計方向 (◯) に回す、最小の状態にする。
 - SPEAKER (スピーカ端子) →無負荷 (スピーカ、ダミー抵抗器などを接続しない。)
 - MODE : TONE DEFEAT
 - FUNCTION : CD
- (5) 2分以内に VR501FL を時計方向 (◯) に回しテストポイントの電圧を次のように調整します。
1.5mV \pm 0.5mV DC
- (6) 予備調整から 10 分後 VR501FL を回し、次のように電圧を設定します。
2.0mV \pm 0.5mV DC
- (7) 同じ方法で各チャンネルの可変抵抗を調整します。



BLOCK DIAGRAM



LEVEL DIAGRAM

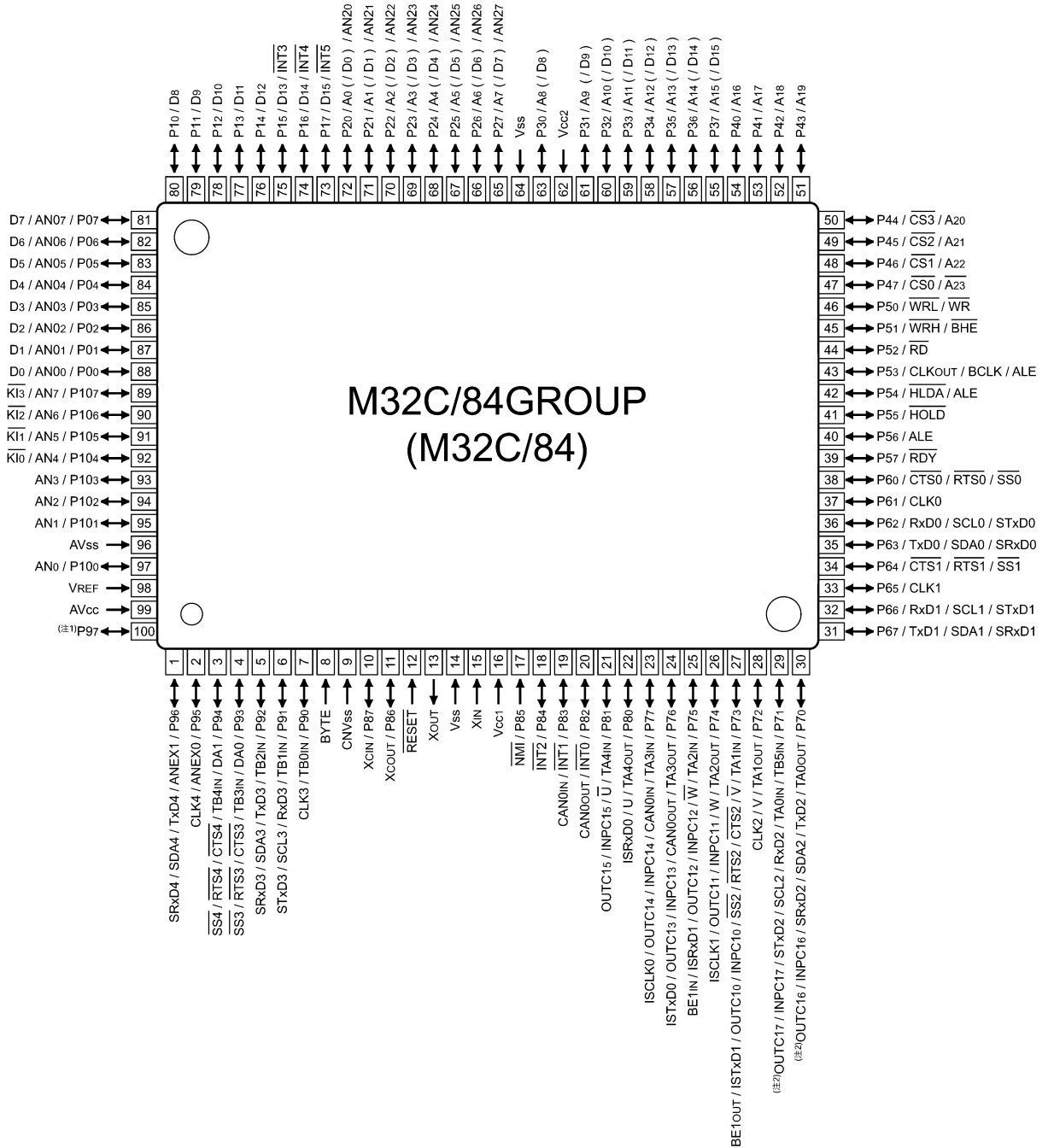


SEMICONDUCTORS

Only major semiconductors are shown, general semiconductors etc. are omitted to list.
 主な半導体を記載しています。汎用の半導体は記載を省略しています。

1. IC's

M30843FHFP (IC401) FRONT P.W.B.



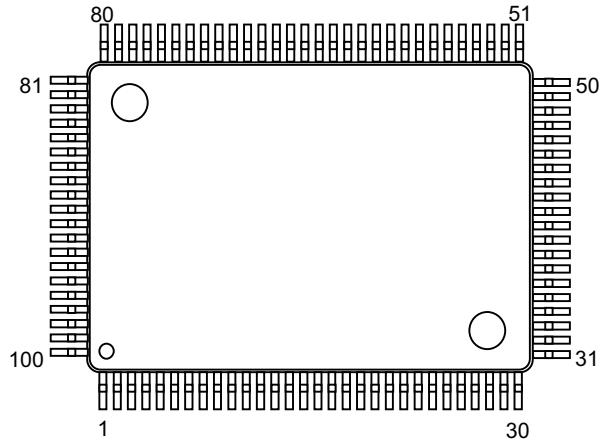
M30843FHFP Terminal Function

PIN No.	Port Function	Port Name	I/O		Function
			P-ON	Standby	
1	P96, TxD4/SDA4/SRxD4	SIRIUS_Tx	O	O/L	SIRIUS data transmission
2	P95, CLK4	SIRIUS MUTE	O	O/L	SIRIUS MUTE control
3	P94	(HD CE)	O	O/L	HD Radio enable output
4	P93	MULT3 SW	O	O/L	ZONE3 output, HPFcontrol
5	P92, TxD3/SDA3/SRxD3	HD Radio TX/(SDA)	O	O/L	HD Radio data transmission
6	P91, TxD3/SDA3/SRxD3	HD Radio RX/(SCL)	I	I	HD Radio Data reception
7	P90, CLK3	(HD CLK)	O	O/L	HD Radio clock output
8	BYTE		I	-	Ext. data bus bit width switching
9	CNV _{SS}		I	-	Processor mode switching
10	P87, X _{CIN}	(HD RESET)	O	O/L	HD Radio reset output
11	P86, X _{COU} T	FLT_RESET	O	O/L	FLT reset output
12	/RESET		I	-	Hard reset
13	X _{OU} T		O	-	Oscillator connection
14	V _{SS}		I	-	GND
15	X _{IN}		I	-	Oscillator connection
16	V _{CC1}		I	-	5V
17	P85	NMI	I	-	NMI interruption input
18	P84, /INT2	RS232C_Tx	I	I	RS232C signal detection
19	P83, /INT1	REMOCON	I	I	Remote control input
20	P82, /INT0	PROTECTION	I	I	Unusual operation detection
21	P81	FLT_CLK	O	O/L	FLT clock output
22	P80	FLT_DATA	O	O/L	FLT data output
23	P77	FLT_CE1	O	O/L	FLT chip select output
24	P76	SPK_RLY_A	O	O/L	Speaker A Relay control
25	P75	CPU_5V_SW	O	O/L	CPU 5V control
26	P74	SPK_RLY_B	O	O/L	Speaker B Relay control
27	P73	(NC)		O/L	
28	P72, CLK2	iPod_DET	I	I	iPod connection detection
29	P71, RxD2/SCL2/STxD2	iPod_Rx	I	I	iPod data reception
30	P70, TxD2/SDA2/SRxD2	iPod_Tx	O	O/L	iPod data transmission
31	P67, TxD1/SDA1/SRxD1	RS232C_Tx	O	O/L	RS232C data reception
32	P66, RxD1/SCL1/STxD1	RS232C_Rx	I	I	RS232C data reception
33	P65, CLK1	PLL_DI	I	I	PLL data input
34	P64	PLL_DO/XM-DAC_DO	O	O/L	PLL/XM-DAC data output
35	P63, TxD0/SDA0/SRxD0	XM_Tx	O	O/L	XM data transmission
36	P62, RxD0/SCL0/STxD0	XM_Rx	I	I	XM data reception
37	P61, CLK0	PLL_CLK/XM-DAC_CLK	O	O/L	PLL/XM-DAC clock output
38	P60	PLL_CE	O	O/L	PLL enable output
39	P57	/TUNED	I	I	TUNED detection
40	P56	/STEREO	I	I	STEREO broadcast detection
41	P55	RS232C_UPDATE_EPM			
42	P54	VOL_UP	I	I	Volume encoder input
43	P53	VOL_DOWN	I	I	Volume encoder input
44	P52	SELECT_DOWN	I	I	Select encoder input
45	P51	SELECT_UP	I	I	Select encoder input
46	P50	RS232C_UPDATE_CE	O	O/L	
47	P47	DC TRIGGER_2ON	O	O/L	Trigger Out2 ON/OFF control
48	P46	FUNCTION_UP	I	I	Function encoder input
49	P45	TUNER MUTE	O	O/L	TUNER MUTE control
50	P44	E2PROM_SCL	O	O/L	E2P Clock output
51	P43	E2PROM_SDA	I/O	O/L	E2PROM data transmission and reception
52	P42	ZONE3_MUTE	O	O/L	ZONE3 MUTE control
53	P41	ZONE2_MUTE	O	O/L	ZONE2 MUTE control
54	P40	STBY LED_RED	O	O/L	StandbyLED(R) control

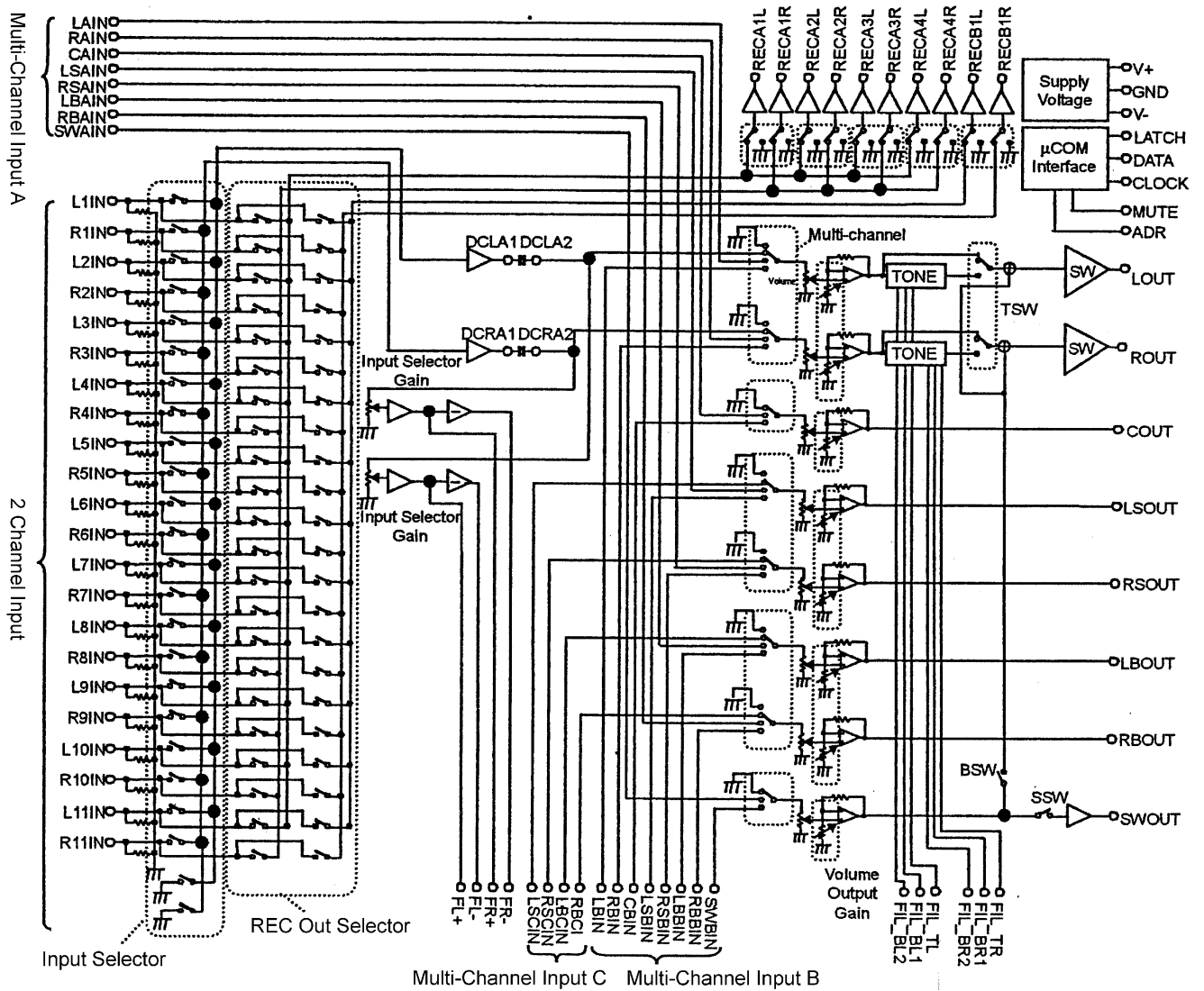
PIN No.	Port Function	Port Name	I/O		Function
			P-ON	Standby	
55	P37	HD Radio MUTE	O	O/L	HD Radio MUTE control
56	P36	DC TRIGGER 1	O	O/L	Trigger Out1 ON/OFF control
57	P35	H/P RELAY	O	O/L	H/P Relay control
58	P34	SW_MUTE	O	O/L	SW MUTE control
59	P33	VIDEO OFF	O	O/L	VIDEO Reg control
60	P32	HD Radio DET	I	I	HD Radio Installing detection
61	P31	HD Radio P/E	O	O/L	HD Radio power supply control
62	V _{CC2}		I	-	5V
63	P30	(NC)			
64	V _{SS}		I	-	GND
65	P27	XM_DBPOWER	O	O/L	XM Reg control
66	P26	XM_DIC_RESET	O	O/L	XM DIC reset output
67	P25	XM_DAC_PDN	O	O/L	XM DAC reset reset output
68	P24	XM_COMMAND	O	O/L	XM DIC CBM output
69	P23	XM_REQ	I	I	XM DIC Interrupt request
70	P22	H/P DET	I	I	H/P connection detection
71	P21	POWER RELAY	O	O/L	POWER RELAY control
72	P20	FUNCTION_DOWN	I	I	Function encoder input
73	P17, /INT5	POWER DOWN	I	I	CPU 5.6V detection
74	P16, /INT4	ETHERNET REQ	I	I	ETHERNET interrupt request
75	P15, /INT3	POWER	I	I	POWER Key input detection
76	P14	MULT2 SW	O	O/L	ZONE3 output \$HPF control
77	P13	STBY_LED_GREEN	O	O/L	Standby LED(G) control
78	P12	NJW1197W_LATCH	O	O/L	NJW1197 latch output
79	P11	NJW1197W_CLK	O	O/L	NJW1197 Clock output
80	P10	NJW1197W_DATA	O	O/L	NJW1197 data output
81	P07	MAIN_MUTE	O	O/L	MAIN MUTE control
82	P06	VIDEO_A	O	O/L	VIDEO output control
83	P05	VIDEO_B	O	O/L	VIDEO output control
84	P04	VIDEO_C	O	O/L	VIDEO output control
85	P03	VIDEO_D	O	O/L	VIDEO output control
86	P02	VIDEO_E	O	O/L	VIDEO output control
87	P01	ZONE2_VIDEO_MUTE	O	O/L	ZONE2 VIDEO MUTE control
88	P00	ZONE3_VIDEO_MUTE	O	O/L	ZONE3 VIDEO MUTE control
89	P107	EMODE	I	I	
90	P106, AN6	KEY_IN1	I	I	Key input
91	P105, AN5	KEY_IN2	I	I	Key input
92	P104, AN4	KEY_IN3	I	I	Key input
93	P103	LOUDNESS ON	O	O/L	LOUDNESS ON/OFF control
94	P102	SIRIUS P/E	O	O/L	SIRIUS enable output
95	P101	XM MUTE	O	O/L	XM MUTE control
96	AV _{SS}		I	-	GND
97	P100	XM_DACNS	O	O/L	XM DAC chip select input
98	V _{REF}		I	-	standard voltage input
99	AV _{CC}		I	-	5V
100	P97, RxD4/SCL4/STxD4	SIRIUS_Rx	I	I	SIRIUS data reception

NJW1197 (IC101) INPUT P.W.B.

PIN FUNCTION



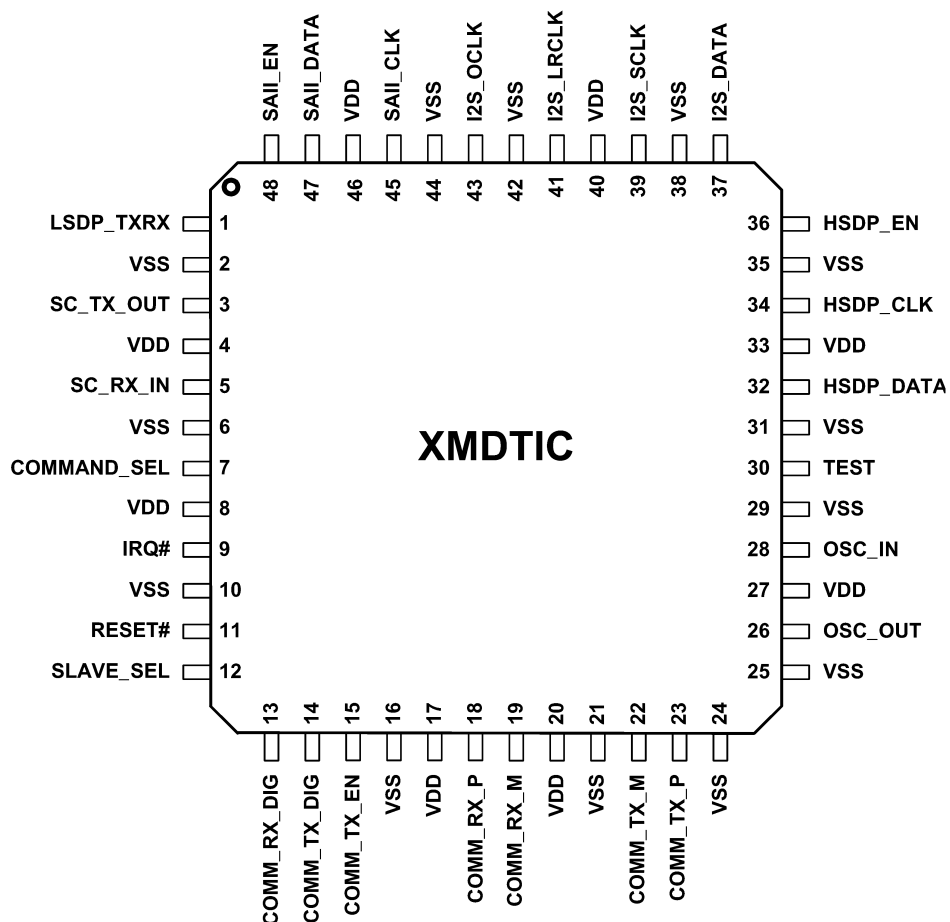
BLOCK DIAGRAM



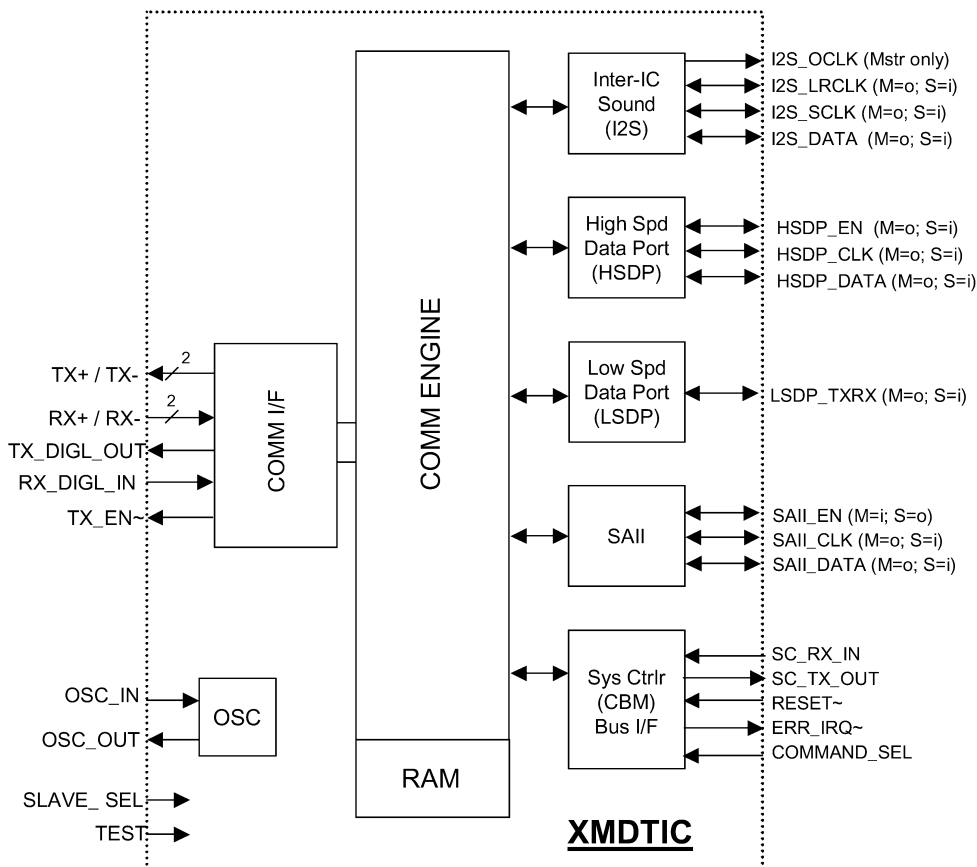
NJW1197 Terminal Function

No.	SYMBOL	FUNCTION	No.	SYMBOL	FUNCTION
1	ROUT	Rch output	51	DCR_IN	Multi-channel selector Rch input
2	COUT	Cch output	52	DCR_OUT	Input selector Rch output
3	LSOUT	LSch output	53	GND	Ground
4	RSOUT	RSch output	54	DCL_IN	Multi-channel selector Lch input
5	LBOUT	LBch output	55	DCL_OUT	Input selector Lch output
6	RBOUT	RBch output	56	GND	Ground
7	SWOUT	SWch output	57	REC_B1R	Input selector Rch REC output B1
8	GND	Ground	58	REC_B1L	Input selector Lch REC output B1
9	FIL_BL2	Lch Bass filter terminal 2	59	REC_A4R	Input selector Rch REC output A4
10	FIL_BL1	Lch Bass filter terminal 1	60	REC_A4L	Input selector Lch REC output A4
11	FIL_TL	Lch Treble filter terminal	61	REC_A3R	Input selector Rch REC output A3
12	TCAP	Switching noise rejection capacitor	62	REC_A3L	Input selector Lch REC output A3
13	FIL_BR2	Rch Bass filter terminal 2	63	REC_A2R	Input selector Rch REC output A2
14	FIL_BR1	Rch Bass filter terminal 1	64	REC_A2L	Input selector Lch REC output A2
15	FIL_TR	Rch Treble filter terminal	65	REC_A1R	Input selector Rch REC output A1
16	V+	+ Power supply voltage input	66	REC_A1L	Input selector Lch REC output A1
17	ADR	Chip address select input	67	VDDOUT	Internal Digital +Power Supply Output
18	V-	- Power supply voltage input	68	DATA	Control data signal input
19	L1IN	Input selector Lch input 1	69	CLOCK	Clock signal input
20	DCCAP_SW	Switching noise rejection capacitor	70	LATCH	Latch signal input
21	R1IN	Input selector Rch input 1	71	MUTE	External Mute control
22	DCCAP_RB	Switching noise rejection capacitor	72	FL+	Input selector gain control Lch no-inverted output
23	L2IN	Input selector Lch input 2	73	FL-	Input selector gain control Lch inverted output
24	DCCAP_LB	Switching noise rejection capacitor	74	FR+	Input selector gain control Rch no-inverted output
25	R2IN	Input selector Rch input 2	75	FR-	Input selector gain control Rch inverted output
26	DCCAP_RS	Switching noise rejection capacitor	76	GND	Ground
27	L3IN	Input selector Lch input 3	77	LSCIN	Multi-channel LSch input C
28	DCCAP_LS	Switching noise rejection capacitor	78	RSCIN	Multi-channel RSch input C
29	R3IN	Input selector Rch input 3	79	LBCIN	Multi-channel LBch input C
30	DCCAP_C	Switching noise rejection capacitor	80	RBCIN	Multi-channel RBch input C
31	L4IN	Input selector Lch input 4	81	GND	Ground
32	DCCAP_R	Switching noise rejection capacitor	82	LAIN	Multi-channel Lch input A
33	R4IN	Input selector Rch input 4	83	RAIN	Multi-channel Rch input A
34	DCCAP_L	Switching noise rejection capacitor	84	CAIN	Multi-channel Cch input A
35	L5IN	Input selector Lch input 5	85	LSAIN	Multi-channel LSch input A
36	GND	Ground	86	RSAIN	Multi-channel RSch input A
37	R5IN	Input selector Rch input 5	87	LBAIN	Multi-channel LBch input A
38	GND	Ground	88	RBAIN	Multi-channel RBch input A
39	L6IN	Input selector Lch input 6	89	SWAIN	Multi-channel SWch input A
40	L9IN	Input selector Lch input 9	90	GND	Ground
41	R6IN	Input selector Rch input 6	91	LBIN	Multi-channel Lch input B
42	R9IN	Input selector Rch input 9	92	RBIN	Multi-channel Rch input B
43	L7IN	Input selector Lch input 7	93	CBIN	Multi-channel Cch input B
44	L10IN	Input selector Lch input 10	94	LSBIN	Multi-channel LSch input B
45	R7IN	Input selector Rch input 7	95	RSBIN	Multi-channel RSch input B
46	R10IN	Input selector Rch input 10	96	LBBIN	Multi-channel LBch input B
47	L8IN	Input selector Lch input 8	97	RBBIN	Multi-channel RBch input B
48	L11IN	Input selector Lch input 11	98	SWBIN	Multi-channel SWch input B
49	R8IN	Input selector Rch input 8	99	GND	Ground
50	R11IN	Input selector Rch input 11	100	LOUT	Lch output

F2602-1 XMDTIC (IC203) XM-READY P.W.B.



Functional Description



F2602-1 XMDTIC Pin Descriptions

Pin #	Pin Name	Type	Function in Slave Mode	Function in Master Mode	Notes
1	LSDP_TXRX	S=In M=Out	Low Speed Data Port Output	Low Speed Data Port Input	LVTTTL S/T
3	SC_TX_OUT	S=Out M=Out	System Controller Bus (CBM) Transmit Data Out	System Controller Bus (CBM) Transmit Data Out	4mA, SLC
5	SC_RX_IN	S=In M=In	System Controller Bus (CBM) Receive Data In	System Controller Bus (CBM) Receive Data In	LVTTTL S/T
7	COMMAND_SEL	S=In M=In	Command Mode Select In (1= Command Mode, 0=Normal Mode)	Command Mode Select In (1= Command Mode, 0=Normal Mode)	LVTTTL S/T
9	IRQ#	S=Out M=Out	Interrupt Request Out (Active Low)	Interrupt Request Out (Active Low)	4mA Open Drain
11	RESET#	S=In M=In	Asynchronous Reset In, (Active Low)	Asynchronous Reset In, (Active Low)	LVTTTL S/T
12	SLAVE_SEL	S=In M=In	M/S Mode Select In (High = Slave Mode)	M/S Mode Select In (Low = Master Mode)	LVTTTL S/T
13	COMM_RX_DIG	S=In M=In	DT Comm Bus External Transceiver Receive Data In	DT Comm Bus External Transceiver Receive Data In	LVTTTL S/T
14	COMM_TX_DIG	Output	DT Comm Bus External Transceiver Transmit Data Out	DT Comm Bus External Transceiver Transmit Data Out	LVTTTL S/T
15	COMM_TX_EN	Output	DT Comm Bus External Transceiver Direction Out (1=Transmit, 0=Receive)	DT Comm Bus External Transceiver Direction Out (1=Transmit, 0=Receive)	LVTTTL S/T
18	COMM_RX_P	S=In M=In	DT Comm Bus Internal Receiver Differential Positive In	DT Comm Bus Internal Receiver Differential Positive In	LVDS in+
19	COMM_RX_M	S=In M=In	DT Comm Bus Internal Receiver Differential Negative In	DT Comm Bus Internal Receiver Differential Negative In	LVDS in-
22	COMM_TX_M	Output	DT Comm Bus Internal Transmitter Differential Negative Out	DT Comm Bus Internal Transmitter Differential Negative Out	LVDS out-
23	COMM_TX_P	Output	DT Comm Bus Internal Transmitter Differential Positive Out	DT Comm Bus Internal Transmitter Differential Positive Out	LVDS out+
26	OSC_OUT	Output	Crystal Output	Crystal Output	Crystal Buffer
28	OSC_IN	S=In M=In	Crystal Input	Crystal Input	Crystal Buffer
30	TEST	S=In M=In	Factory Test Mode Select (1=Test, 0= Normal Oper.)	Factory Test Mode Select (1=Test, 0= Normal Oper.)	LVTTTL S/T
32	HSDP_DATA	S=In M=Out	High Speed Data Port Data Input	High Speed Data Port Data Output	Out= 4mA, SLC In=LVTTTL S/T
34	HSDP_CLK	S=In M=Out	High Speed Data Port Clock Input	High Speed Data Port Clock Output	Out= 4mA, SLC In=LVTTTL S/T
36	HSDP_EN	S=Out M=In	High Speed Data Port Enable Output	High Speed Data Port Enable Input	Out= 4mA, SLC In=LVTTTL S/T
37	I2S_DATA	S=In M=Out	I2S Digital Port Data In	I2S Digital Audio Port Data Out	Out= 4mA, SLC In=LVTTTL S/T

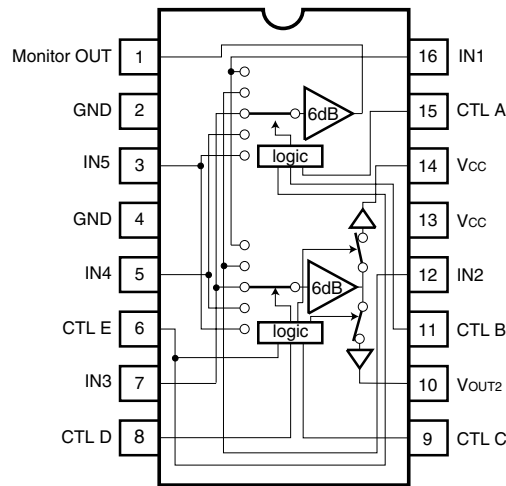
Pin #	Pin Name	Type	Function in Slave Mode	Function in Master Mode	Notes
39	I2S_SCLK	S=In M=Out	I2S Digital Audio Port Bit Clock In	I2S Digital Audio Port Bit Clock Out	Out= 4mA, SLC In=LVTTL S/T
41	I2S_LRCLK	S=In M=Out	I2S Digital Audio Port Left/Right Clock In	I2S Digital Audio Port Left/Right Clock Out	Out= 4mA, SLC In=LVTTL S/T
43	I2S_OCLK	S=In M=Out	I2S Digital Audio Port Oversample Clock (not used - connect to Gnd???)	I2S Digital Audio Port Oversample Clock Out	Out= 4mA, SLC
45	SAII_CLK	S=Out M=In	SAII Port Clock Output	SAII Port Clock Input	Out= 4mA, SLC 3.3V S/T
47	SAII_DATA	S=Out M=In	SAII Port Data Output	SAII Port Data Input	Out= 4mA, SLC In=LVTTL S/T
48	SAII_REQ	S=In M=Out	SAII Port Request Input	SAII Port Request Output	Out= 4mA, SLC In=LVTTL S/T

Pin#	Pin Name	Type	Function in Slave Mode	Function in Master Mode	Notes
4, 8, 17, 20, 27, 33, 40, 46	VDD	PWR	+3.3V Supply Voltage	+3.3V Supply Voltage	
2, 6, 10, 16, 21, 24, 25, 29, 31, 25, 38, 42, 44	VSS	GND	Digital Ground	Digital Ground	

Notes: All Inputs are 3.3V LVTTL compatible; S/T = Schmitt Trigger inputs; SLC = Slew Rate Controller Output

BA7626F (IC601) MAIN P.W.B.

Block diagram



Truth table

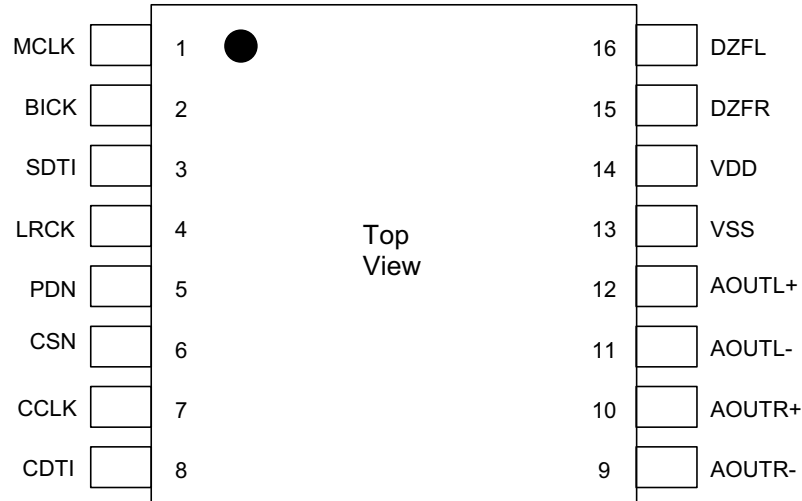
A	B	E	Monitor OUT
L	L	*	IN1
H	L	*	IN2
L	H	*	IN3
H	H	L	IN4
H	H	H	IN5

C	D	E	V _{OUT1}
L	L	*	—
H	L	*	IN2
L	H	*	IN3
H	H	L	IN4
H	H	H	IN5

C	D	E	V _{OUT2}
L	L	*	IN1
H	L	*	—
L	H	*	IN3
H	H	L	IN4
H	H	H	IN5

Note 1: * indicates "don't care" (H or L).

AK4385 (IC 207) XM-READY P.W.B.



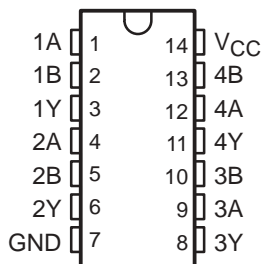
Pin function

No.	Pin Name	I/O	Function
1	MCLK	I	Master Clock Input Pin An external TTL clock should be input on this pin.
2	BICK	I	Audio Serial Data Clock Pin
3	SDTI	I	Audio Serial Data Input Pin
4	LRCK	I	L/R Clock Pin
5	PDN	I	Power-Down Mode Pin When at “L”, the AK4385 is in the power-down mode and is held in reset. The AK4385 should always be reset upon power-up.
6	CSN	I	Chip Select Pin
7	CCLK	I	Control Data Input Pin
8	CDTI	I	Control Data Input Pin
9	AOUTR-	O	Rch Negative Analog Output Pin
10	AOUTR+	O	Rch Positive Analog Output Pin
11	AOUTL-	O	Lch Negative Analog Output Pin
12	AOUTL+	O	Lch Positive Analog Output Pin
13	VSS	-	Ground Pin
14	VDD	-	Power Supply Pin
15	DZFR	O	Rch Data Zero Input Detect Pin
16	DZFL	O	Lch Data Zero Input Detect Pin

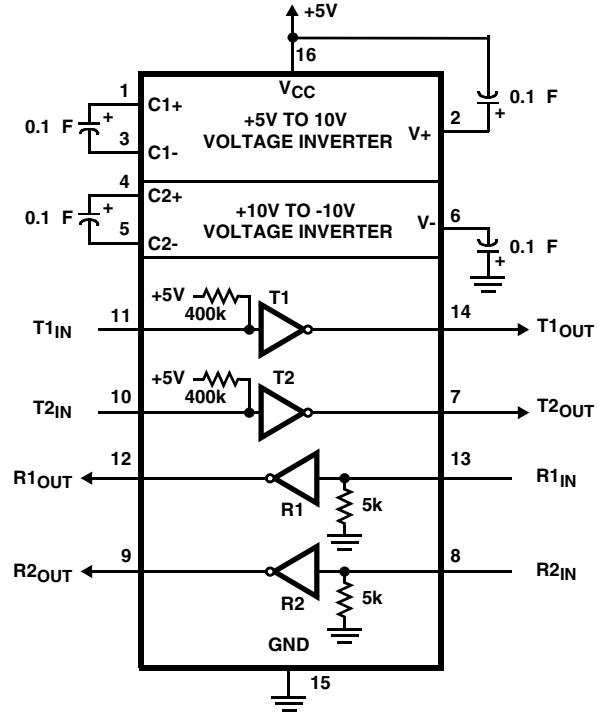
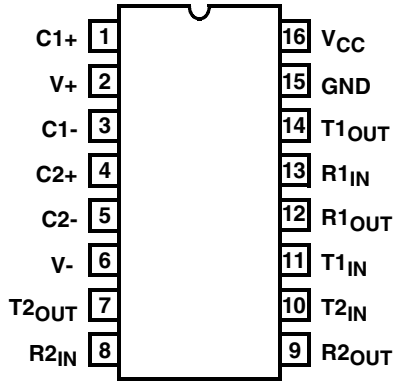
Note: All input pins should not be left floating.

SN74LV08A (IC 204) XM-READY P.W.B.

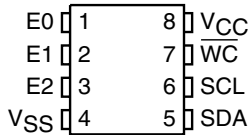
SN74HCT08 (IC 205, 206, 211) XM-READY P.W.B.



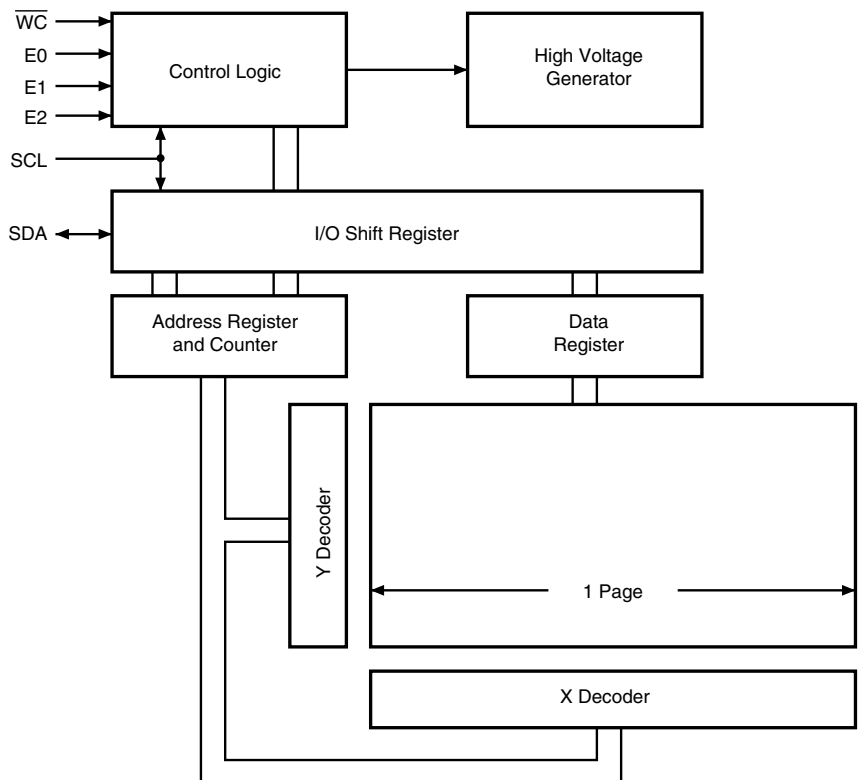
HIN202EIBNZ-T (IC 602) MULTI P.W.B.



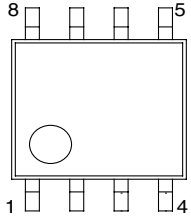
M24C64 (IC 404) FRONT P.W.B



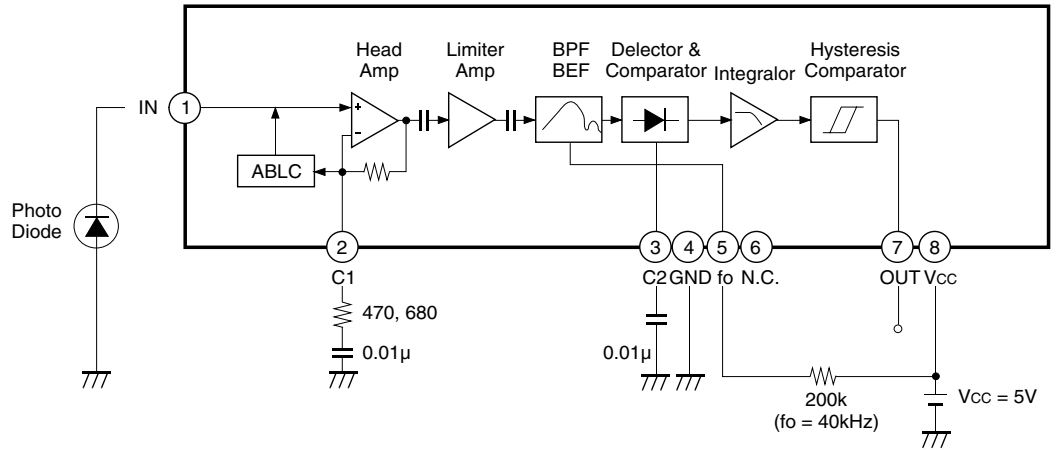
Block Diagram



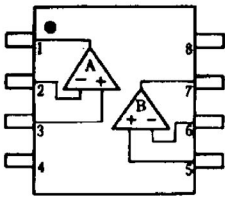
CXA1511M (IC 201) XM-READY P.W.B.



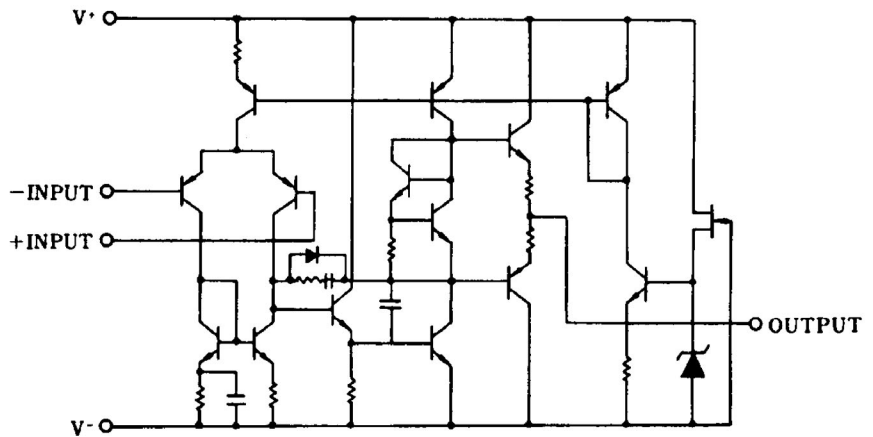
Block Diagram and Pin Configuration



**NJM2068 (IC 104-114, 120) INPUT P.W.B.
(IC 209) XM-READY P.W.B.**



- 1. A OUTPUT
- 2. A-INPUT
- 3. A+INPUT
- 4. V-
- 5. B+INPUT
- 6. B-INPUT
- 7. B OUTPUT
- 8. V+

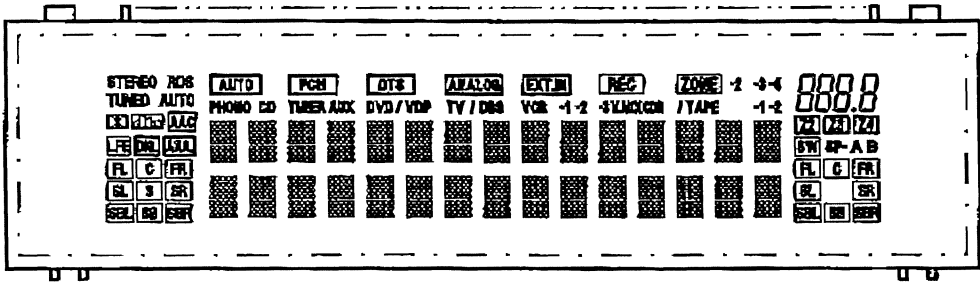


2. FL DISPLAY

16-ST-87GINK (FLT301)

62

1

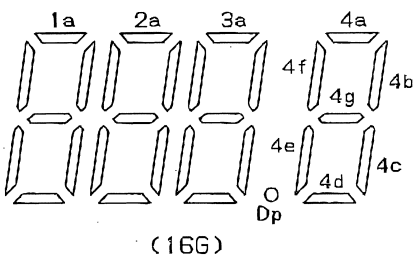
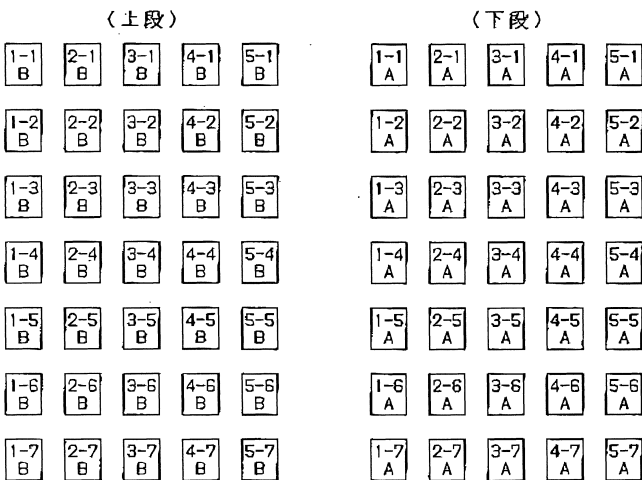
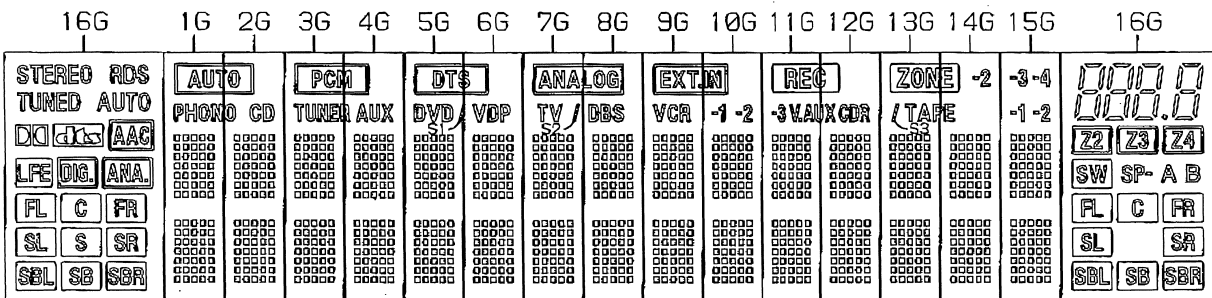


PIN CONNECTION

PIN NO.	6	6	6	5	5	5	5	5	5	5	4	4	4	4	4	~	5	4	3	2	1				
CONNECTION	F	N	N	N	N	N	V	D	S	C	C	D	S	S	Q		N	X		N	N	N	F		
	2	X	P	P	P	D	D	H	D	C	T	S	P	A	A	B	G	G		X		P	P	X	1

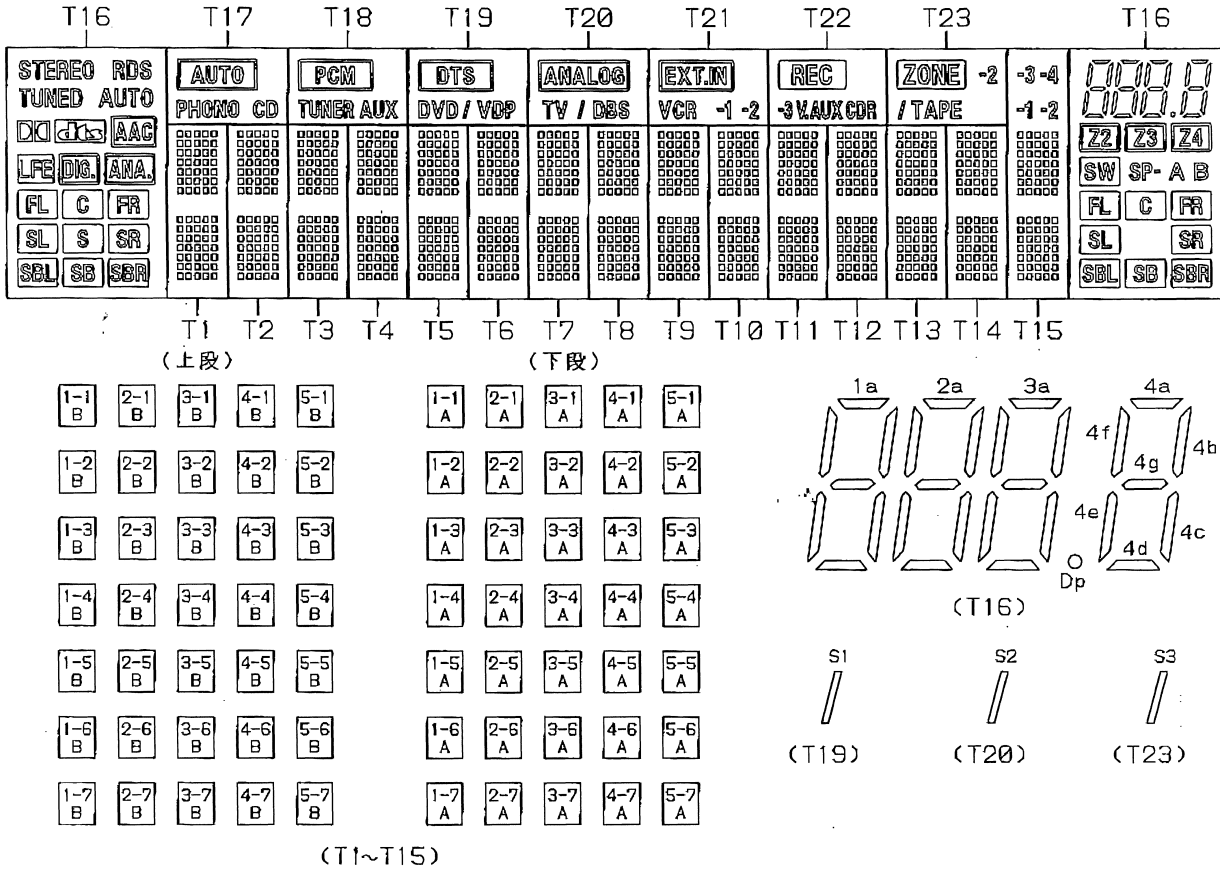
NOTE 1) F1, F2 --- Filament 4) NX ----- No extend pin
 2) NP ----- No pin 5) DL ----- Datum Line
 3) 16G ----- Grid

GRID ASSIGNMENT



(1G~15G)

TIMING ASSIGNMENT



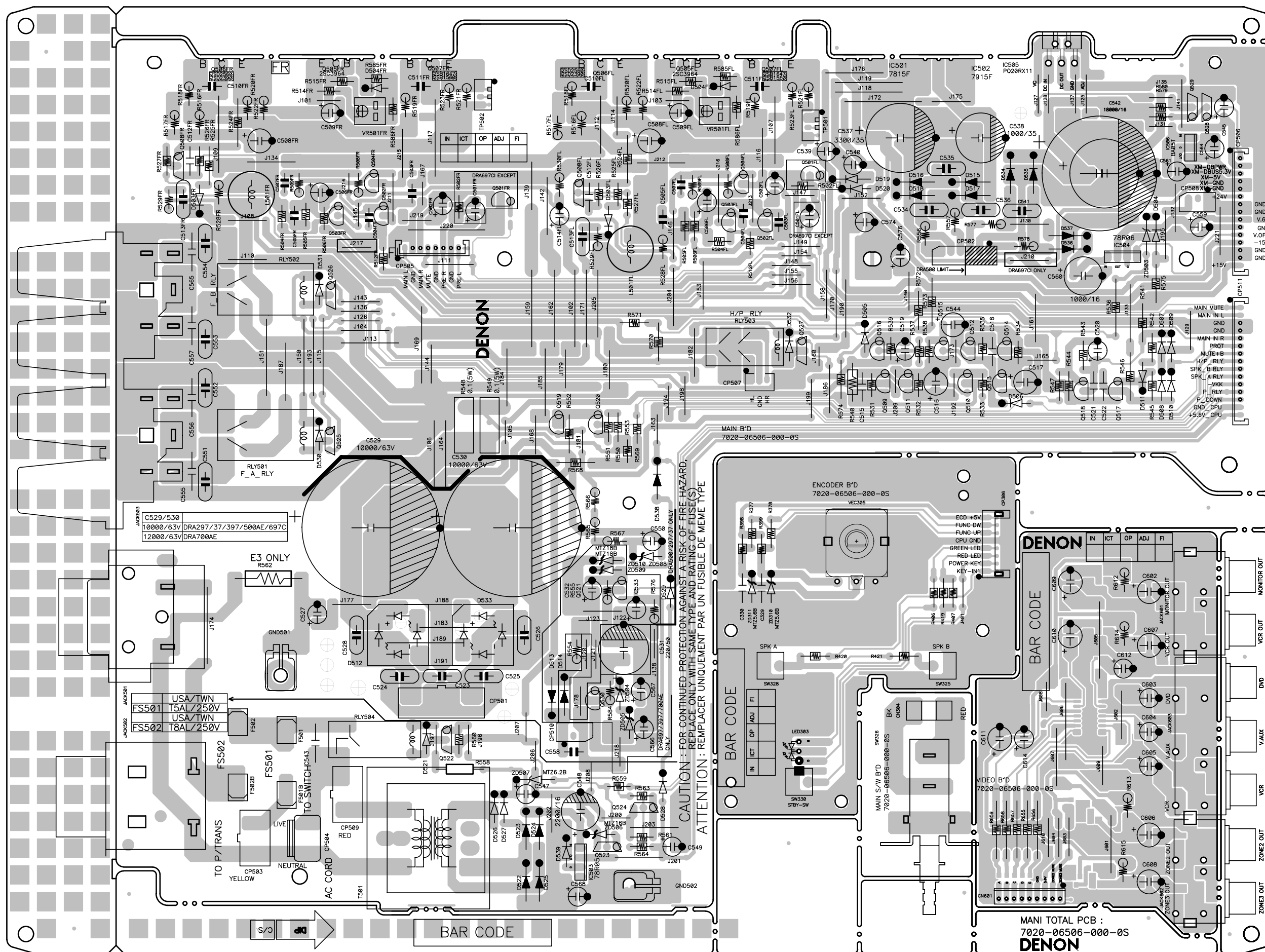
ANODE TIMING CHART

	T1~T14	T15	T16	T17	T18	T19	T20	T21	T22	T23
D0A	1-1A	1-1A	Dp							
D1A	2-1A	2-1A	1d							
D2A	3-1A	3-1A	2d							
D3A	4-1A	4-1A	3d							
D4A	5-1A	5-1A	4d							
D5A	1-2A	1-2A								
D6A	2-2A	2-2A	1e							
D7A	3-2A	3-2A	2e							
D8A	4-2A	4-2A	3e							
D9A	5-2A	5-2A	4e							
D10A	1-3A	1-3A								
D11A	2-3A	2-3A	1c							
D12A	3-3A	3-3A	2c							
D13A	4-3A	4-3A	3c							
D14A	5-3A	5-3A	4c							
D15A	1-4A	1-4A								
D16A	2-4A	2-4A	1g							
D17A	3-4A	3-4A	2g							
D18A	4-4A	4-4A	3g							
D19A	5-4A	5-4A	4g							
D20A	1-5A	1-5A								
D21A	2-5A	2-5A	1f							
D22A	3-5A	3-5A	2f							
D23A	4-5A	4-5A	3f							
D24A	5-5A	5-5A	4f							
D25A	1-6A	1-6A								
D26A	2-6A	2-6A	1b							
D27A	3-6A	3-6A	2b							
D28A	4-6A	4-6A	3b							
D29A	5-6A	5-6A	4b							
D30A	1-7A	1-7A								
D31A	2-7A	2-7A	1a							
D32A	3-7A	3-7A	2a							
D33A	4-7A	4-7A	3a							
D34A	5-7A	5-7A	4a							

ANODE TIMING CHART

	T1~T14	T15	T16	T17	T18	T19	T20	T21	T22	T23
D0B	1-1B	1-1B	Z2							
D1B	2-1B	2-1B	Z3							
D2B	3-1B	3-1B	Z4							
D3B	4-1B	4-1B								
D4B	5-1B	5-1B	DC							
D5B	1-2B	1-2B	DC							
D6B	2-2B	2-2B	AAC							
D7B	3-2B	3-2B	LFE							
D8B	4-2B	4-2B	ANA							
D9B	5-2B	5-2B	ANA							
D10B	1-3B	1-3B								
D11B	2-3B	2-3B								
D12B	3-3B	3-3B								
D13B	4-3B	4-3B	SW							
D14B	5-3B	5-3B	SP-							
D15B	1-4B	1-4B	A							
D16B	2-4B	2-4B	B							
D17B	3-4B	3-4B	FL (左)							
D18B	4-4B	4-4B	C (左)							
D19B	5-4B	5-4B	FR (左)							
D20B	1-5B	1-5B	SL (左)							
D21B	2-5B	2-5B	SR (左)							
D22B	3-5B	3-5B	SBL (左)							
D23B	4-5B	4-5B	SBR (左)							
D24B	5-5B	5-5B	SBR (左)							
D25B	1-6B	1-6B								
D26B	2-6B	2-6B	RL (左)							
D27B	3-6B	3-6B	C (左)							
D28B	4-6B	4-6B	RL (左)							
D29B	5-6B	5-6B	SL (左)							
D30B	1-7B	1-7B	S							
D31B	2-7B	2-7B	SR (左)							
D32B	3-7B	3-7B	SBL (左)							
D33B	4-7B	4-7B	SBR (左)							
D34B	5-7B	5-7B	SBR (左)							
AD1		-3	STEREO	AUTO	PCM	DTS	ANALOG	EXT.IN	REC	ZONE
AD2		-4	RDS	PHONO	TUNER	DVD	TV	VCR	-3	-2
AD3		-1	TUNED	CD	AUX	S1	S2	-1	VAUX	S3
AD4		-2	AUTO		VDP	DBS	-2	COR	TAPE	

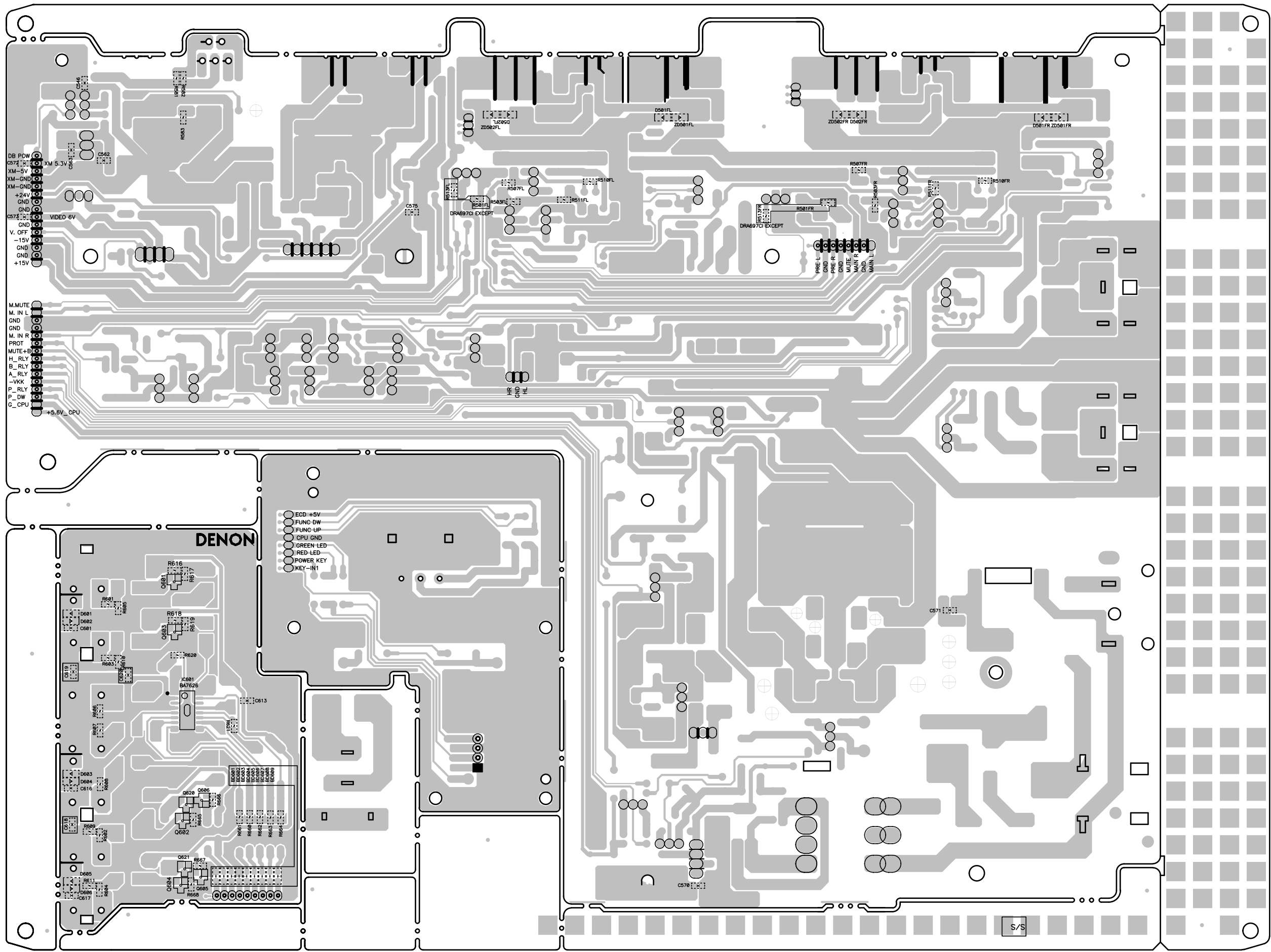
PRINTED WIRING BOARDS
MAIN P.W.B. UNIT



CAUTION : FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE HAZARD,
REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE(S)
ATTENTION : REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE

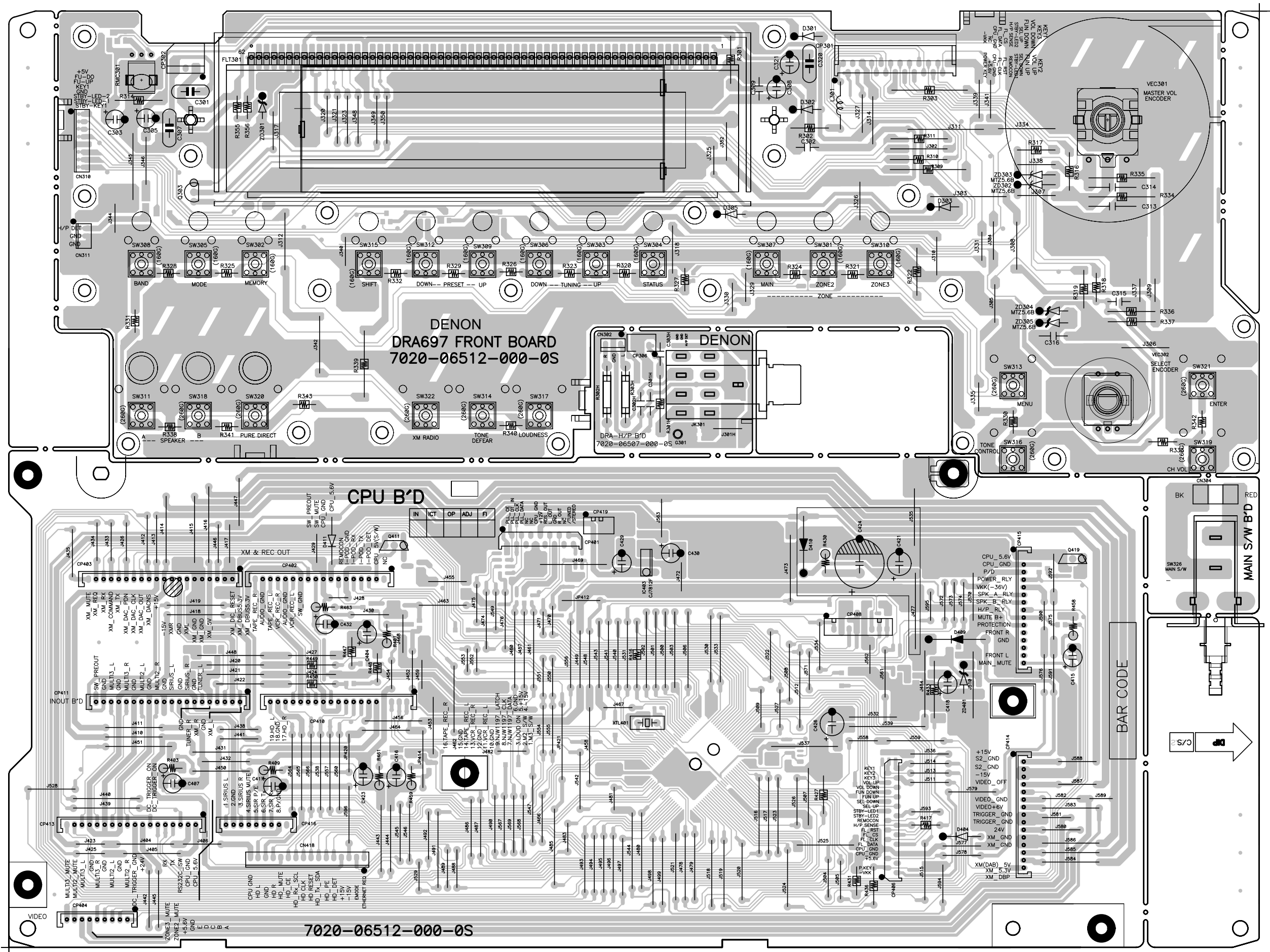
MANI TOTAL PCB :
7020-06506-000-05
DENON

COMPONENT SIDE

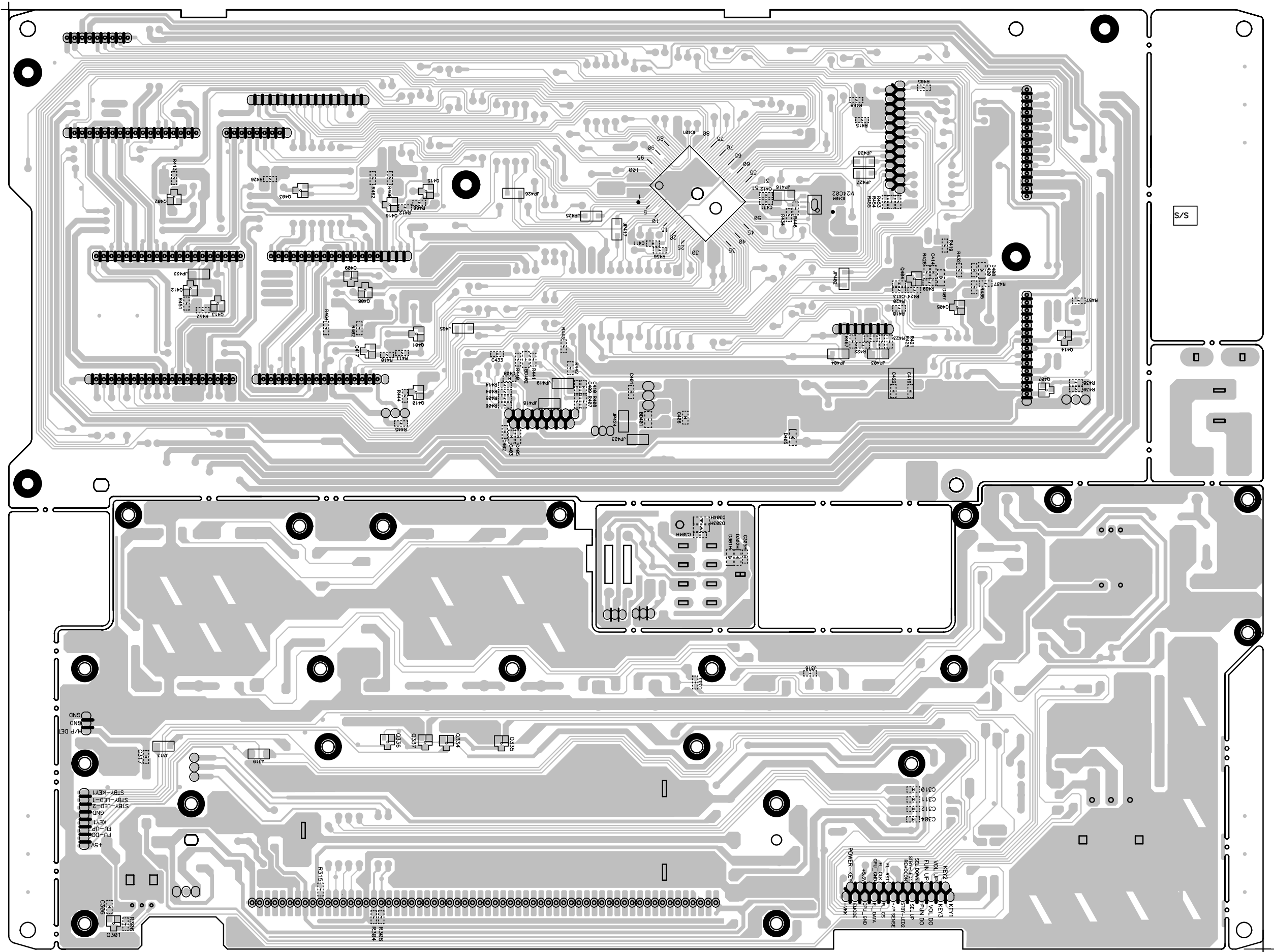


FOIL SIDE

FRONT P.W.B.UNIT



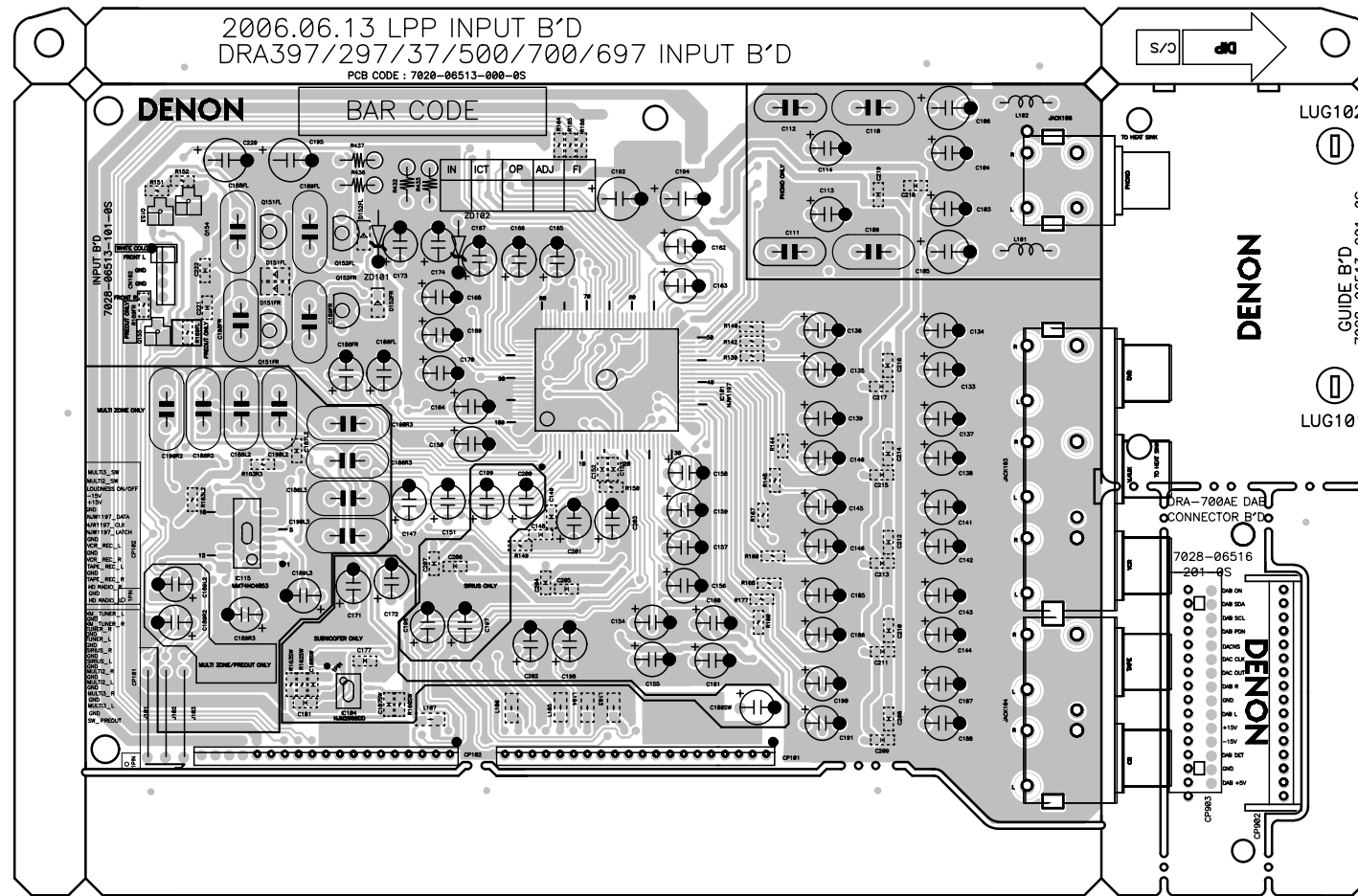
COMPONENT SIDE



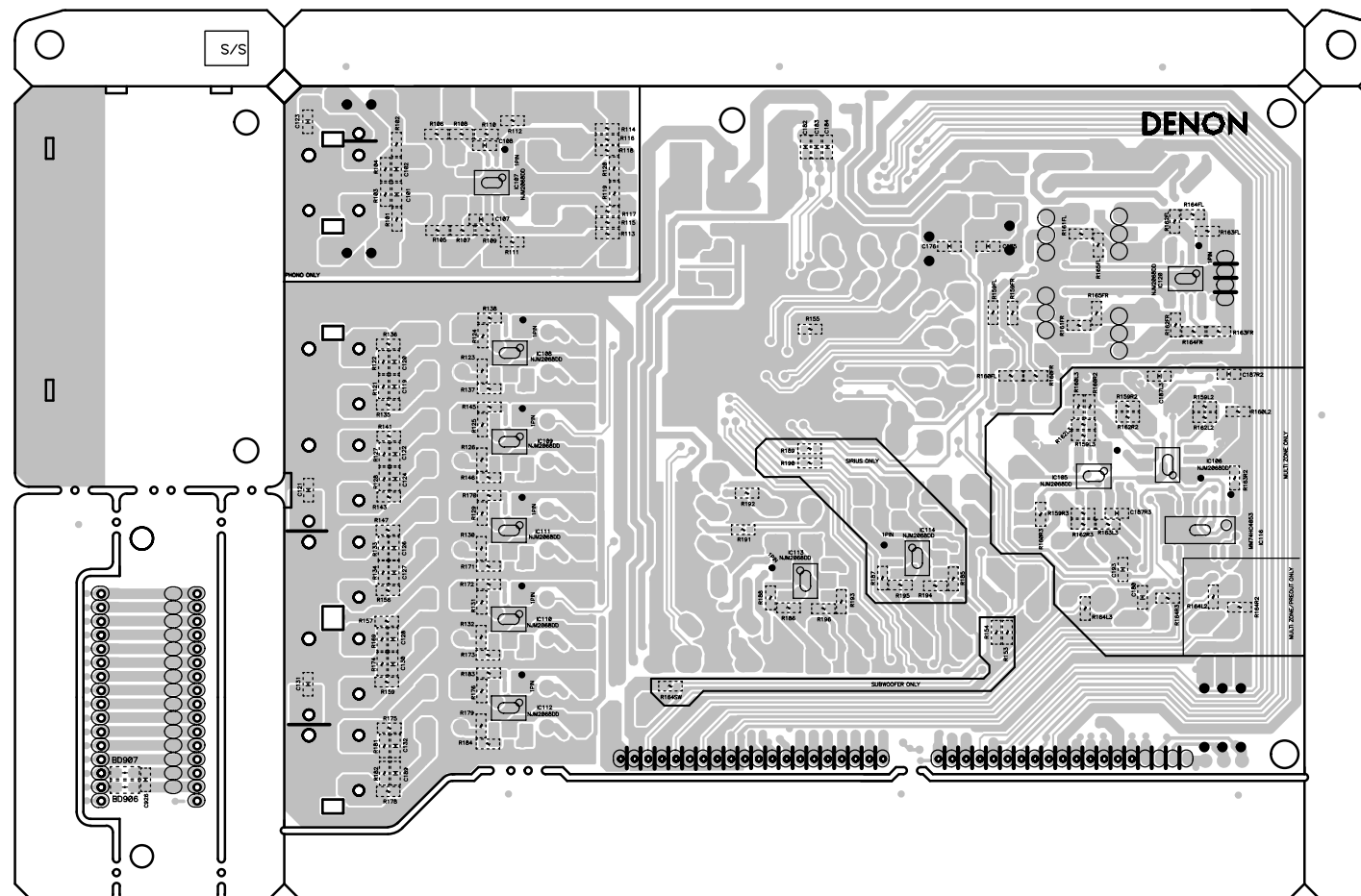
S/S

FOIL SIDE

INPUT P.W.B. UNIT

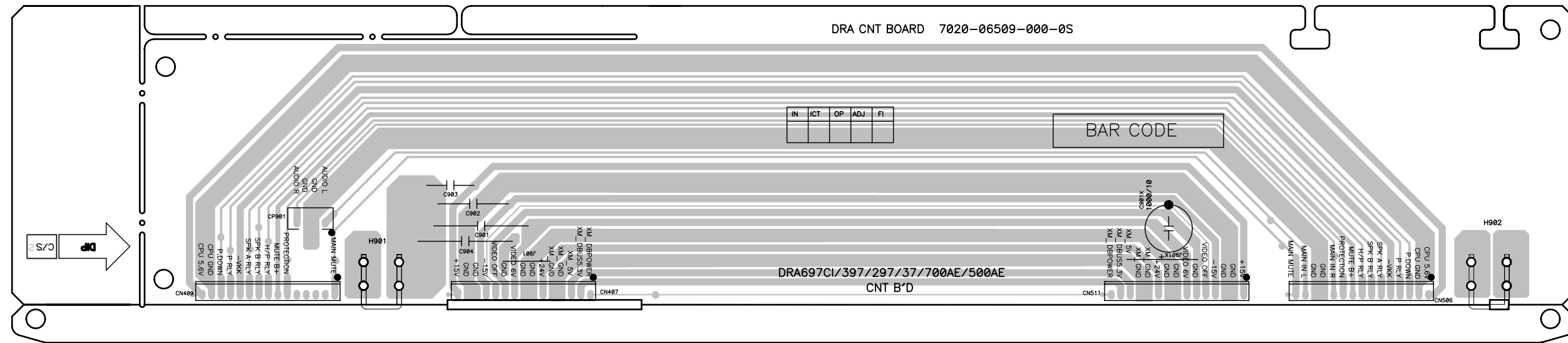


COMPONENT SIDE

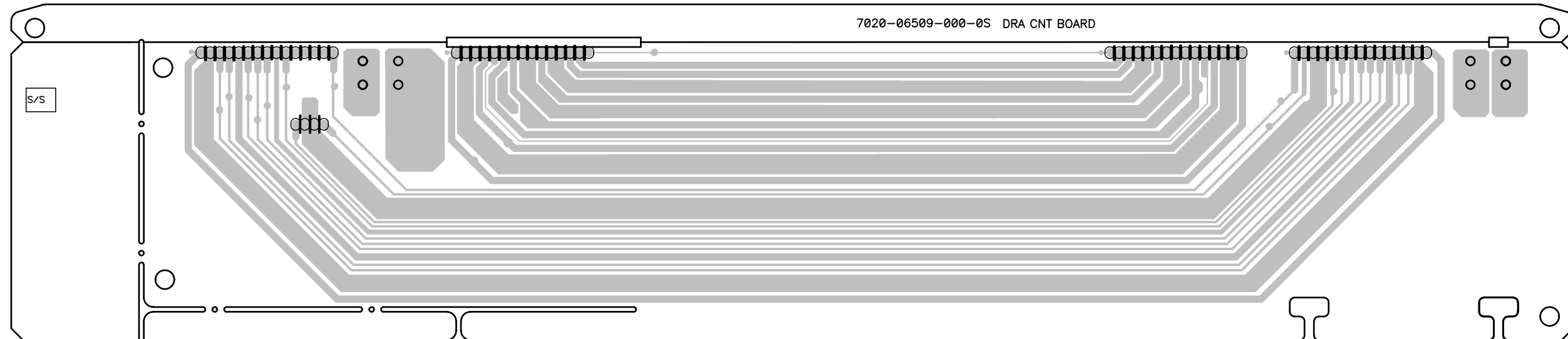


FOIL SIDE

CNT P.W.B. UNIT

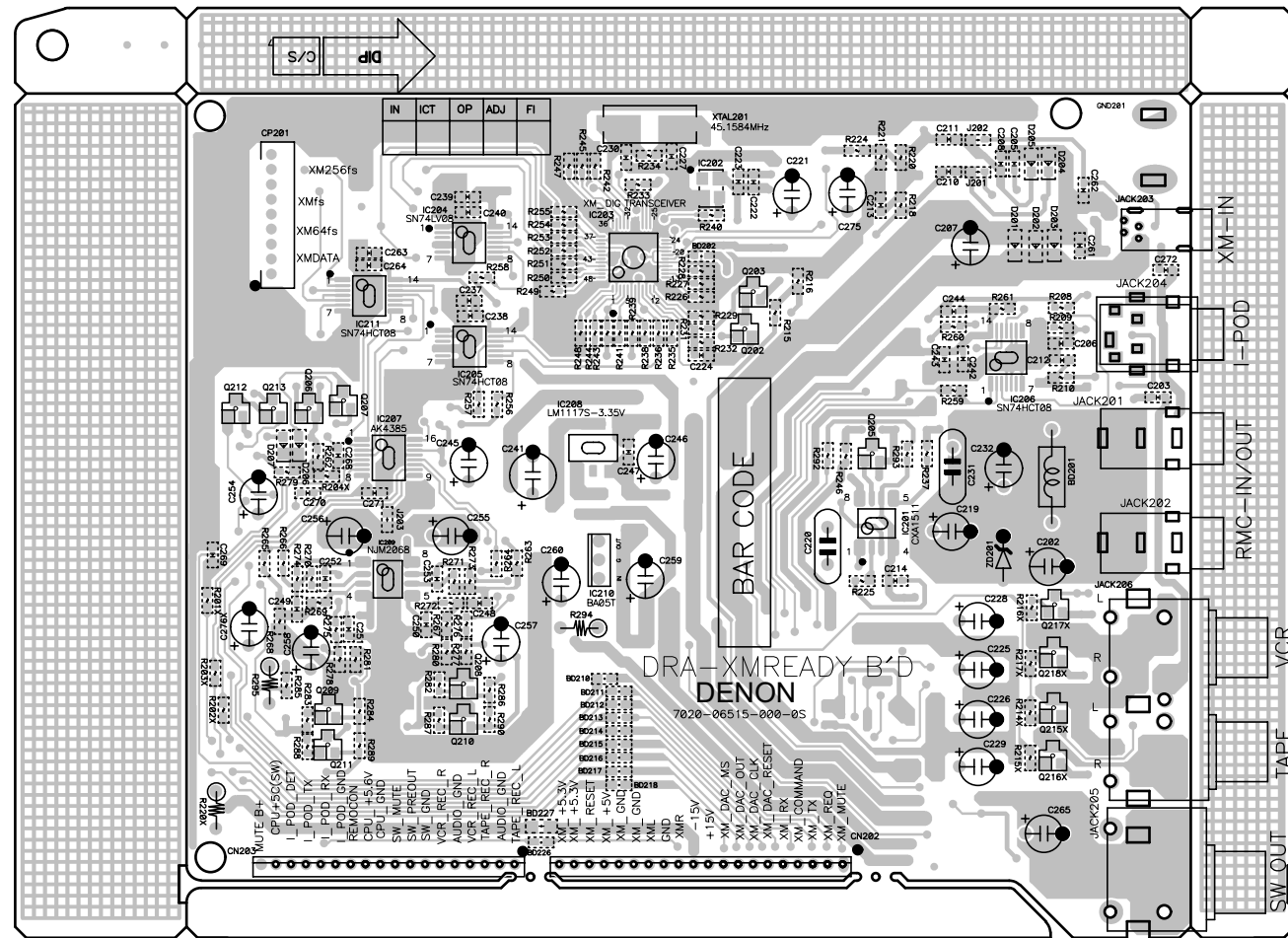


COMPONENT SIDE

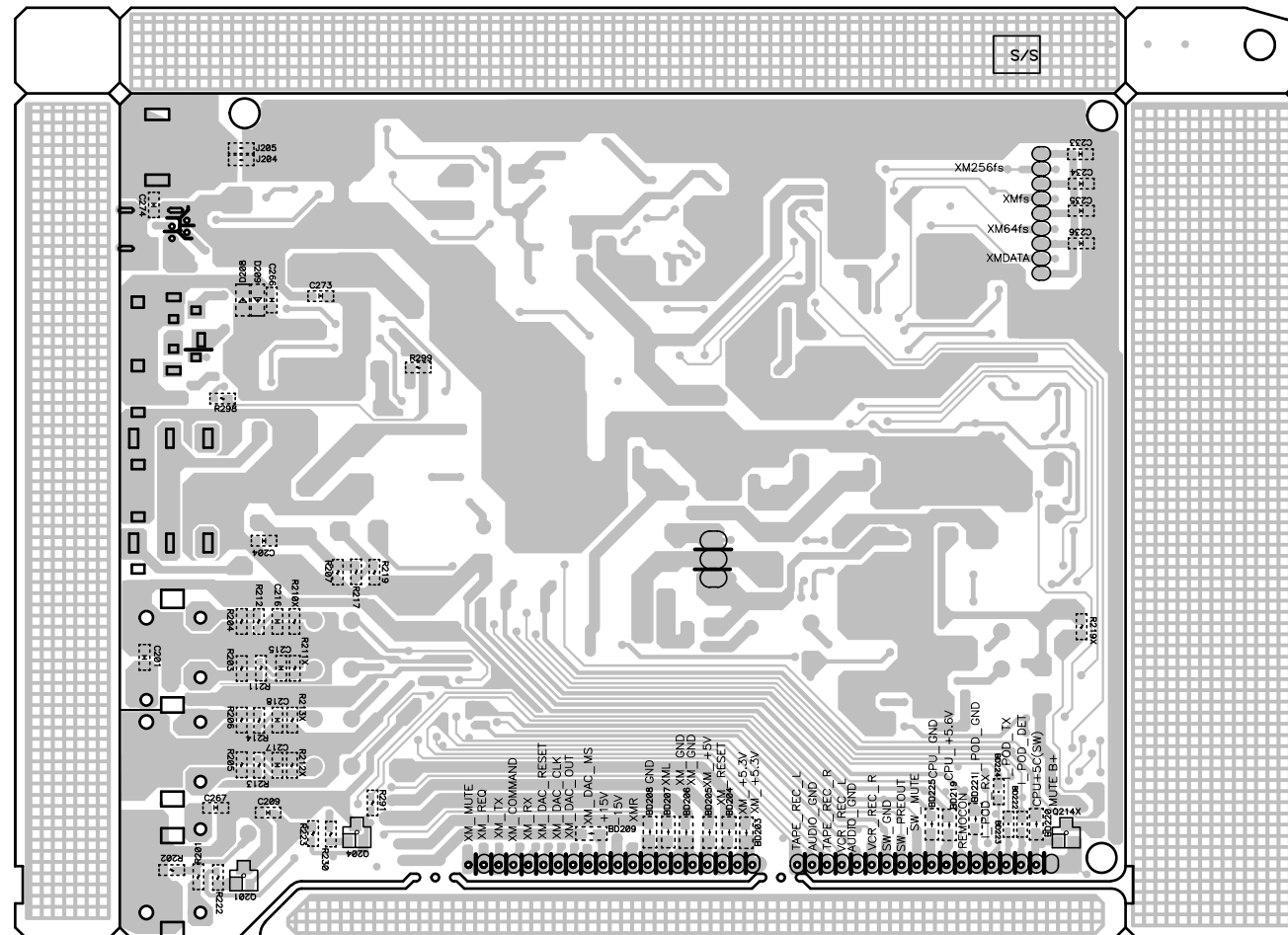


FOIL SIDE

XM-READY P.W.B. UNIT

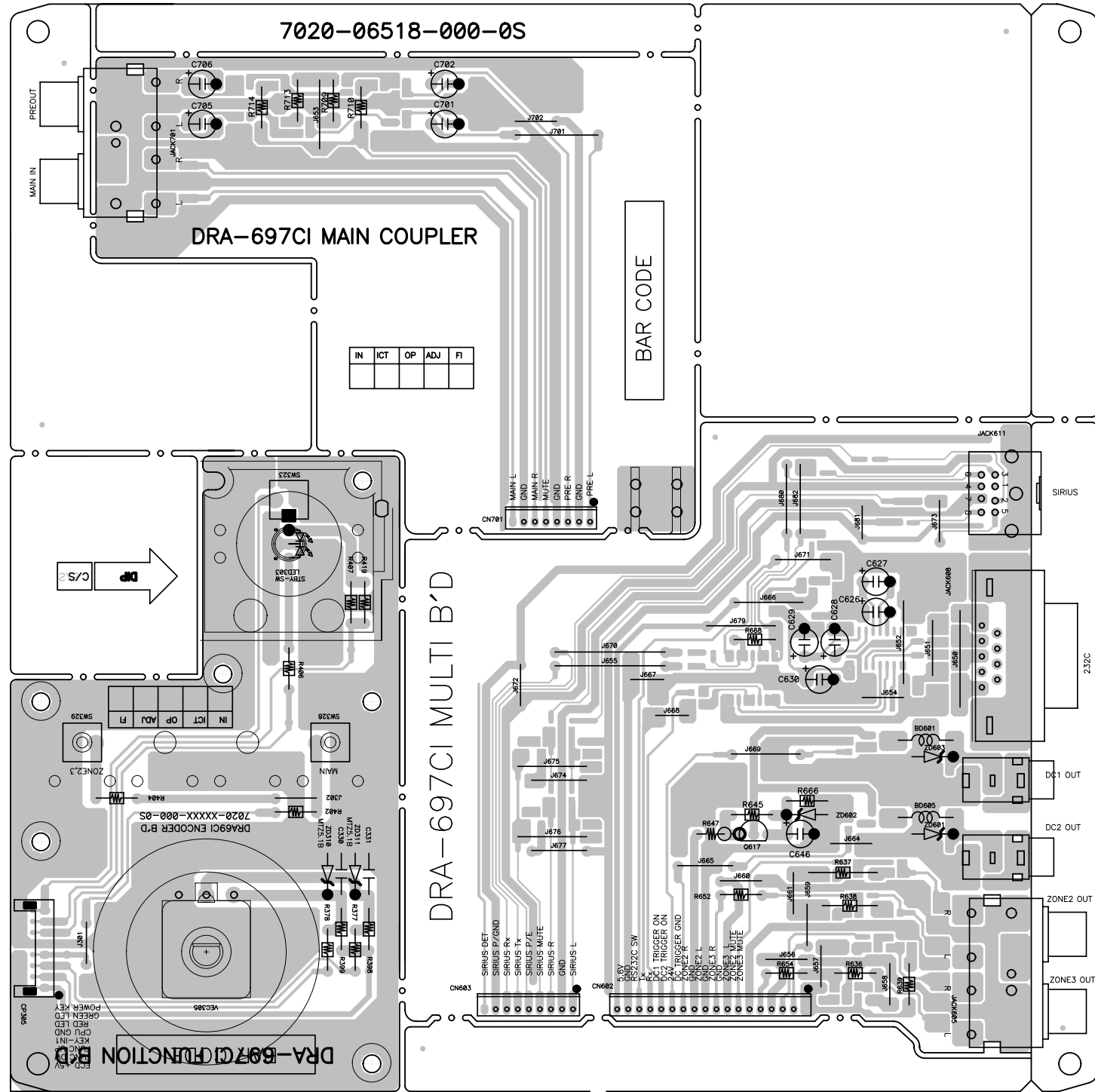


COMPONENT SIDE

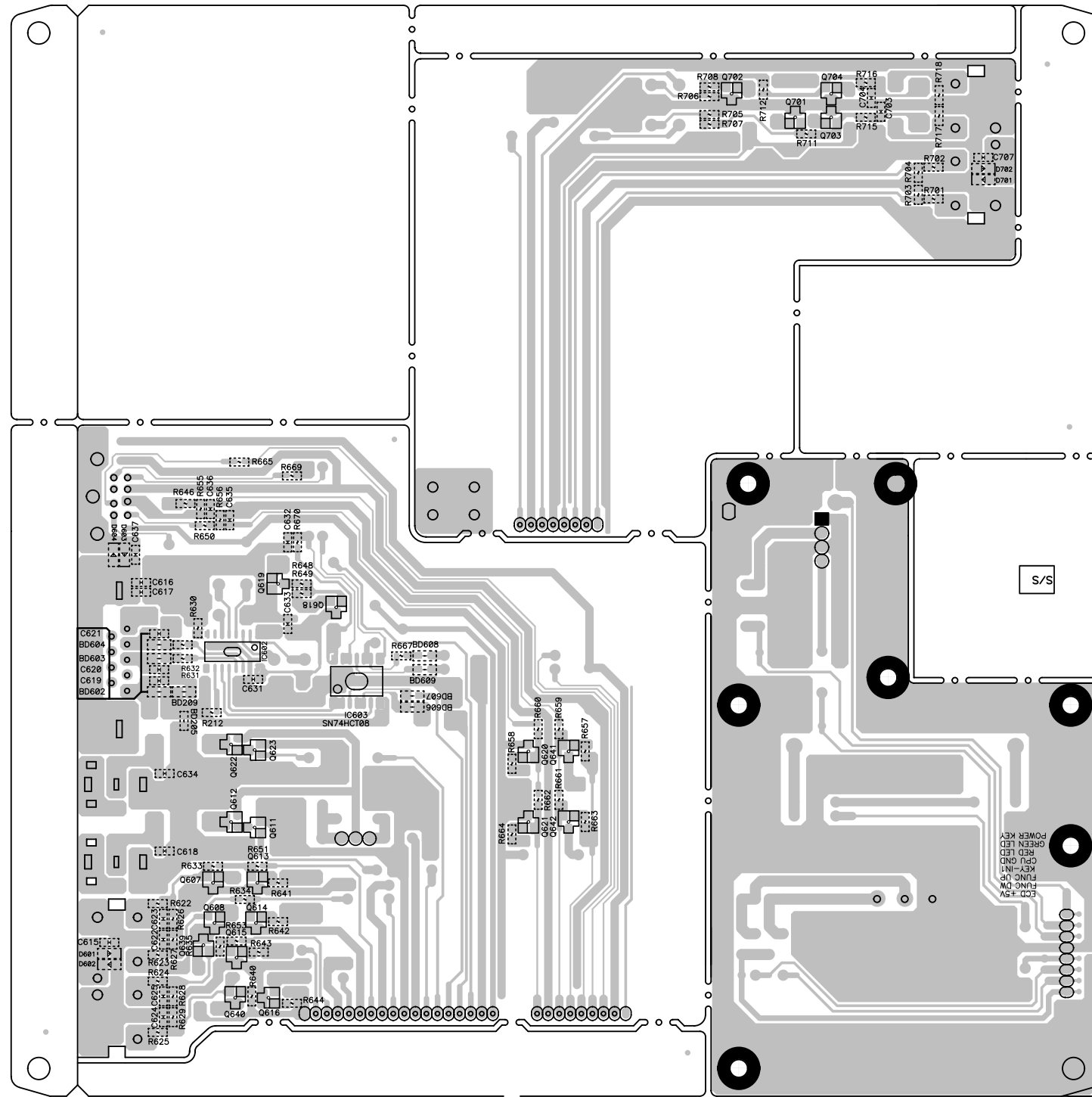


FOIL SIDE

MULTI P.W.B.UNIT



COMPONENT SIDE



FOIL SIDE

NOTE FOR PARTS LIST

- Part indicated with the mark "nsp" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
 - When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
 - Ordering part without stating its part number can not be supplied.
 - Part indicated with the mark "★" is not illustrated in the exploded view.
 - Not including General-purpose Carbon Film Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)
 - Not including General-purpose Carbon Chip Resistor in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)
- WARNING:**
Parts marked with this symbol \triangle have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● Resistors

Ex.: RN 14K 2E 182 G FR

Type	Shape and performance	Power	Resistance	Allowable error	Others
RD : Carbon RC : Composition RS : Metal oxide film RW : Winding RN : Metal film RK : Metal mixture	2B : 1/8W 2E : 1/4W 2H : 1/2W 3A : 1W 3D : 2W 3F : 3W 3H : 5W	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%	P : Pulse-resistant type NL : Low noise type NB : Non-burning type FR : Fuse-resistor F : Lead wire forming		

* Resistance

1 $\overline{8}$ 2 \Rightarrow 1800 ohm = 1.8 kohm
Indicates number of zeros after effective number.
2-digit effective number.
Units: ohm

1 \overline{R} 2 \Rightarrow 1.2 ohm
1-digit effective number.
2-digit effective number, decimal point indicated by R.
Units: ohm

● Capacitors

Ex.: CE 04W 1H 2R2 M BP

Type	Shape and performance	Dielectric strength	Capacity	Allowable error	Others
CE : Aluminum foil electrolytic CA : Aluminum solid electrolytic CS : Tantalum electrolytic CQ : Film CK : Ceramic CC : Ceramic CP : Oil CM : Mica CF : Metallized CH : Metallized	0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1V : 35V 1H : 50V 2A : 100V 2B : 125V 2C : 160V 2D : 200V 2E : 250V 2H : 500V 2J : 630V	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% P : ±100% C : ±0.25pF D : ±0.5pF = : Others	HS : High stability type BP : Non-polar type HR : Ripple-resistant type DL : For charge and discharge HF : For assuring high frequency U : UL part C : CSA part W : UL-CSA type F : Lead wire forming		

* Capacity (electrolyte only)

2 2 2 \Rightarrow 2200μF
Indicates number of zeros after effective number.
2-digit effective number.
Units: μF.

2 R 2 \Rightarrow 2.2μF
1-digit effective number.
2-digit effective number, decimal point indicated by R.
Units: μF.

* Capacity (except electrolyte)

2 2 2 \Rightarrow 2200pF=0.0022μF
(More than 2) — Indicates number of zeros after effective number.
2-digit effective number.
Units: pF.

2 2 1 \Rightarrow 220pF
(0 or 1) — Indicates number of zeros after effective number.
2-digit effective number.
Units: pF.

When the dielectric strength is indicated in AC, "AC" is included after the dielectric strength value.

部品表について

- nsp 印の部品は常時在庫していませんので供給に長時間を要することがあります。
場合によっては、供給をお断りすることがあります。
- 部品を発注する際は特に数字の " 1 " と英字の " I " との区別をはっきり記入してください。
- 部品番号を表示していない部品は供給できません。
- \triangle 印の部品は安全上重要な部品です。交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。
- ★印のついている部品は分解図中には記載していません。
- 汎用カーボン抵抗器は記載していません。定数は回路図を参照願います。
- 汎用カーボンチップ抵抗器は記載していません。定数は回路図を参照願います。
- 部品表の抵抗器、コンデンサの品名記号の読み方は表を参照してください。

● 抵抗器

例) RN 14K 2E 182 G FR

RN 種類	14K 形状特性	2E 電力	182 抵抗値	G 許容差	FR その他
RD : カーボン RC : 固定体 RS : 金属系皮膜 RW : 巻線 RN : 金属皮膜 RK : 金属混合体	2B : 1/8 W 2E : 1/4 W 2H : 1/2 W 3A : 1 W 3D : 2 W 3F : 3 W 3H : 5 W	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%	P : 耐パルス形 NL : 低雑音形 NB : 不燃形 FR : ヒューズ抵抗 F : リード線成形		

* 抵抗値

18 2 \Rightarrow 1800Ω=1.8kΩ
有効数字につづく0の数を表わす。
2桁の有効数字を表わす。

1R 2 \Rightarrow 1.2Ω
1桁の有効数字を表わす。
2桁の有効数字で小数点はRで表わす。
単位はΩ

● コンデンサ

例) CE 04W 1H 2R2 M BP

CE 種類	04W 形状特性	1H 耐圧	2R2 容量	M 許容差	BP その他
CE : アルミ箔電解 CA : アルミ固体電解 CS : タンタル電解 CQ : フィルム CK : セラミック CC : セラミック CP : オイル CM : マイカ CF : メタライズド CH : メタライズド	0J : 6.3 V 1A : 10 V 1C : 16 V 1E : 25 V 1V : 35 V 2A : 100 V 2B : 125 V 2C : 160 V 2D : 200 V 2E : 250 V 2H : 500 V 2J : 630 V	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% P : ±100% C : ±0.25pF D : ±0.5pF = : その他	HS : 高安定形 BP : 無極性形 HR : 耐リップル形 DL : 充放電対策用 HF : 高周波保証用 U : UL 部品 C : CSA 部品 W : UL-CSA 部品 F : リード線成形		

* 容量値

● 電解コンデンサの場合

22 2 \Rightarrow 2200μF
有効数字につづく0の数を表わす。
2桁の有効数字を表わす。
単位はμF

2R 2 \Rightarrow 2.2μF
1桁の有効数字を表わす。
2桁の有効数字で小数点はRで表わす。
単位はμF

● 電解コンデンサ以外の場合

22 2 \Rightarrow 2200pF=0.0022μF
有効数字につづく0の数を表わす。
(0の数)が2以上の場合)
2桁の有効数字を表わす。
単位はpF

22 1 \Rightarrow 220pF
有効数字につづく0の数を表わす。
(0の数)が0または1の場合)
2桁の有効数字を表わす。
単位はpF

● 耐圧を交流で表示する場合は、耐圧表示の次に「AC」を表示します。

Ref. No.	nsp	Part No.	Part Name	Remarks		Q'ty	New
C603-605		00D 963 0312 004	C,ELECT 22UF-M/25V		D040220084050S		
C606-608		00D 963 9005 901	C,ELECT 470UF-M/10V		D040471082060S		
C609,610		00D 963 0293 709	C,ELECT 100UF-M/10V		D040101082070S		
C611		00D 963 9005 901	C,ELECT 470UF-M/10V		D040471082060S		
C612		00D 963 0312 004	C,ELECT 22UF-M/25V		D040220084050S		
C613	nsp	00D 963 0234 001	C,CERAMIC 0.047UF-Z/50V		D011473597160S		
C614		00D 963 0312 004	C,ELECT 22UF-M/25V		D040220084050S		
C616,617		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C618-620		00D 963 9003 372	R,CHIP 0-J,1/16W		C20000006M160S		
OTHERS PARTS GROUP							
BD601-609	nsp	00D 963 0220 002	BEAD,COIL 121JT		7611010000020S		
CN601	nsp	00D 963 0085 506	CN.WAFER 9P		L101100030910S		
CP501	nsp	00D 963 0066 208	CN.WAFER 3.96MM		L104353280300S		
CP502	nsp	00D 960 0128 804	CN.WAFER 2.5MM 6P		L102526700600S		
CP503		00D 963 0315 302	CN.WAFER 7.92MM		L108353280290S		
CP504		00D 963 0262 604	CN.WAFER 7.92MM		L108202000220S		
CP505	nsp	00D 963 0097 400	CN.WAFER 2.0MM 8P		L101100040810S		
CP506	nsp	00D 963 0097 507	CN.WAFER 2.0MM 15P		L101100041510S		
CP507	nsp	00D 963 0235 806	CN.WAFER 2.0MM		L101220030000S		
CP508	nsp	00D 960 0123 207	CN.WAFER 2.5MM 3P		L102526700300S		
CP509		00D 963 0315 205	CN.WAFER 7.92MM		L108353280280S		
CP510	nsp	00D 960 0123 207	CN.WAFER 2.5MM 3P		L102526700300S		
CP511	nsp	00D 963 0097 507	CN.WAFER 2.0MM 15P		L101100041510S		
F501		00D 960 0005 804	HOLDER,FUSE		G645000050010S		
F501B		00D 960 0005 804	HOLDER,FUSE		G645000050010S		
F502		00D 960 0005 804	HOLDER,FUSE		G645000050010S		
F502B		00D 960 0005 804	HOLDER,FUSE		G645000050010S		
GND501,502		-	TERMINAL GND PLATE		3790040876010S		
⚠ JACK501		00D 963 0313 508	SOCKET A206D0050P 3P		G435206D00050S		
JACK503		00D 963 0119 906	TER,BOARD SCREW 8P		G614801A0200YS		
JACK601		00D 963 0257 004	TER,RCA 2PIN		G601206B0100YS		
JACK603		00D 963 0257 101	TER,RCA 3PIN		G606303B1010YS		
L501FL		00D 963 0049 005	COIL,INDUCTOR 0.5UH		D330R500000000S		
L501FR		00D 963 0049 005	COIL,INDUCTOR 0.5UH		D330R500000000S		
RLY501,502		00D 960 0181 702	RELAY G5PA-28 24V 5A		G680240502020S		
RLY503		00D 963 0218 506	RELAY BC3-24 24V 2A		G680240202040S		
⚠ RLY504		00D 963 0218 205	RELAY HL3-1A-9SH DC9V 1A		G680090102020S		*
TP501,502	nsp	00D 960 0161 405	CN.WAFER 2.0MM 3P		L101530140310S		
⚠ FS501,502		00D 963 0236 106	FUSE GLASS TUBE T8A/250V		N751228001110S		
⚠ T501		00D 963 0232 100	POWER TRANS 120V/60HZ		8200350150200S		
JCAK602		00D 963 0257 004	5TER,RCA 2PIN		G601206B0100YS		
		-	LABEL RATING		5527200040410S		

FRONT P.W.B. UNIT ASSY

Ref. No.	nsp	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
IC401		00D 963 0333 805	IC M30843FHFP		J020308530010S		*
IC403		00D 960 0100 301	IC KIA7812API		J126781200040S		
IC404		00D 963 0267 007	IC M24C64		J000240640010S		
Q301		00D 963 0121 402	TR KRA104S		J520010400210S		
Q303		00D 960 0005 202	TR KTC3198Y		J5023198Y0000S		
Q334		00D 963 0120 704	TR KRA102S(PB)		J520010200210S		
Q335		00D 963 0121 606	TR KRC107S (NH)		J522107S00210S		
Q336		00D 963 0120 704	TR KRA102S(PB)		J520010200210S		
Q337		00D 963 0121 606	TR KRC107S (NH)		J522107S00210S		
Q401-403		00D 963 0120 704	TR KRA102S(PB)		J520010200210S		
Q404		00D 963 0121 509	TR KTC3875S		J522038750210S		
Q405		00D 960 0285 006	TR KRC104S (ND)		J522104S00210S		
Q408,409		00D 963 0044 301	TR KTC2875B(MB)		J5222875B0010S		
Q410		00D 963 0245 003	TR 2SC KRC106S (NF)		J522010600210S		
Q411		00D 963 0102 803	TR 2SA933S		J5000933S0050S		
Q412,413		00D 963 0044 301	TR KTC2875B(MB)		J5222875B0010S		
Q414-417		00D 963 0120 704	TR KRA102S(PB)		J520010200210S		
D301		00D 963 0020 309	D,SWITCHING 1SS133T		K000013300520S		
D301H		00D 963 0219 709	D,SWITCHING 1N4148W		K005041480020S		
D302		00D 963 0020 309	D,SWITCHING 1SS133T		K000013300520S		
D302H		00D 963 0219 709	D,SWITCHING 1N4148W		K005041480020S		
D303		00D 963 0020 309	D,SWITCHING 1SS133T		K000013300520S		
D303H		00D 963 0219 709	D,SWITCHING 1N4148W		K005041480020S		
D304H		00D 963 0219 709	D,SWITCHING 1N4148W		K005041480020S		
D305		00D 963 0020 309	D,SWITCHING 1SS133T		K000013300520S		
D404		00D 963 0020 309	D,SWITCHING 1SS133T		K000013300520S		
D405		00D 963 0219 709	D,SWITCHING 1N4148W		K005041480020S		
D407,408		00D 963 0219 709	D,SWITCHING 1N4148W		K005041480020S		
D409		00D 963 0058 407	D,SWITCHING IN4007		K000400700520S		
D411		00D 963 0020 309	D,SWITCHING 1SS133T		K000013300520S		
ZD301		00D 960 0095 801	D,ZENER MTZJ6.8B		K06006R844520S		
ZD302-305		00D 960 0095 607	D,ZENER MTZJ5.6B		K06005R644520S		
ZD401		00D 963 0047 502	D,ZENER MTZJ3.3B		K06003R344520S		
RESISTORS GROUP							
R302H		00D 960 9009 270	R,METAL FILM 470-J,2W		C060047166520S		
R303H		00D 960 9009 270	R,METAL FILM 470-J,2W		C060047166520S		
R401		00D 963 0128 007	R,METAL FILM 1K-J,1/4W		C060010263050S		
R403		00D 963 0128 007	R,METAL FILM 1K-J,1/4W		C060010263050S		
R409		00D 963 0128 007	R,METAL FILM 1K-J,1/4W		C060010263050S		
R458,459		00D 963 0128 007	R,METAL FILM 1K-J,1/4W		C060010263050S		
R461		00D 963 0128 007	R,METAL FILM 1K-J,1/4W		C060010263050S		
R463		00D 963 0128 007	R,METAL FILM 1K-J,1/4W		C060010263050S		
CAPACITORS GROUP							
C301		00D 963 0216 401	C,FILM 0.1UF-J/100V		D02010406C060S		
C301H		00D 963 0233 206	C,CERAMIC 0.001UF-K/50V		D005102177530S		
C302		00D 963 0020 202	C,CERAMIC 0.1UF-Z/50V		D005104597530S		
C302H		00D 963 0233 206	C,CERAMIC 0.001UF-K/50V		D005102177530S		

Ref. No.	nsp	Part No.	Part Name	Remarks		Q'ty	New
C303		00D 960 9010 366	C,ELECT 47UF-M/16V		D040470083070S		*
C303H		00D 963 0233 303	C,CERAMIC 0.01UF-M/16V		D005103773530S		
C304	nsp	00D 963 0224 105	C,CERAMIC 1000PF-K/50V		D011102777160S		
C304H		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C305		00D 963 0311 005	C,ELECT 1UF-M/50V(Pb Free)		D040010087090S		
C305H		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C306		00D 963 9010 641	C,CERAMIC 0.047UF-K/16V		D011473773160S		
C307		00D 963 0021 900	C,FILM 0.047UF-J/100V		D02047306C060S		
C308		00D 963 0311 209	C,ELECT 10UF-M/50V		D040100087060S		
C309		00D 963 0020 202	C,CERAMIC 0.1UF-Z/50V		D005104597530S		
C310	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C311	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C312	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C313		00D 963 0233 303	C,CERAMIC 0.01UF-M/16V		D005103773530S		
C314		00D 963 0233 303	C,CERAMIC 0.01UF-M/16V		D005103773530S		
C315		00D 963 0233 303	C,CERAMIC 0.01UF-M/16V		D005103773530S		
C316		00D 963 0233 303	C,CERAMIC 0.01UF-M/16V		D005103773530S		
C317		00D 963 9010 641	C,CERAMIC 0.047UF-K/16V		D011473773160S		
C320		00D 963 0021 900	C,FILM 0.047UF-J/100V		D02047306C060S		
C321		00D 963 0311 005	C,ELECT 1UF-M/50V(Pb Free)		D040010087090S		
C401	nsp	00D 963 9004 698	C,CERAMIC 0.01UF-K/50V		D011103777160S		
C402	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C403	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C404		00D 963 0244 606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10087080S		
C405	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C406	nsp	00D 963 9004 698	C,CERAMIC 0.01UF-K/50V		D011103777160S		
C407		00D 963 0244 606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10087080S		
C408	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C409	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C410	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C411		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C412		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C413	nsp	00D 963 9004 698	C,CERAMIC 0.01UF-K/50V		D011103777160S		
C414	nsp	00D 963 9004 698	C,CERAMIC 0.01UF-K/50V		D011103777160S		
C416		00D 963 0244 606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10087080S		
C417		00D 963 0244 606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10087080S		
C418		00D 960 9010 010	C,ELECT GE 85C 4.7UF-M/50V		D0404R7087250S		
C420	nsp	00D 963 9004 698	C,CERAMIC 0.01UF-K/50V		D011103777160S		
C423		00D 963 0244 606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10087080S		
C426		00D 963 0293 709	C,ELECT 100UF-M/10V		D040101082070S		
C429		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C430		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C431		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C432		00D 963 0244 606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10087080S		
C433	nsp	00D 963 9004 698	C,CERAMIC 0.01UF-K/50V		D011103777160S		
OTHERS PARTS GROUP							
BD401	nsp	00D 963 0220 002	BEAD,COIL 121JT		7611010000020S		
BD402	nsp	00D 963 0220 002	BEAD,COIL 121JT		7611010000020S		
CN302		00D 963 0314 400	CN,WIRE 240MM/3P		L000241030010S		
CN304		00D 963 0301 109	CN,WIRE 350MM/2P		L000351020160S		
CN310		00D 963 0314 808	CN,WIRE 60MM/8P		L000600080040S		
CN311		00D 963 0246 002	CN,WIRE 80MM/3P		L000800030110S		*
CN418		00D 963 0334 707	CN,WIRE 300MM/14P		L000301140020S		*

Ref. No.	nsp	Part No.	Part Name	Remarks		Q'ty	New
CP301		00D 963 0161 006	CN.FPC 1.25MM 23P		L131102300010S		
CP302	nsp	00D 963 0236 009	CN.WAFER 2.5MM 3P		L102526803010S		
CP306	nsp	00D 963 0235 806	CN.WAFER 2.0MM		L101220030000S		
CP401		00D 963 0149 303	CN.FPC 1.25MM 15P		L131111500010S		
CP402	nsp	00D 963 0087 601	CN.WAFER 2.0MM 18P		L101100041810S		
CP403		00D 963 0315 001	CN.WAFER 2.0MM 20P		L101100042010S		
CP404	nsp	00D 963 0206 505	CN.WAFER 2.0MM 9P		L101100040910S		
CP406		00D 963 0161 103	CN.FPC 1.25MM 23P		L131112300010S		
CP408	nsp	00D 963 0060 709	CN.WAFER 2.0MM 8P		L101220080000S		
CP410	nsp	00D 963 0087 504	CN.WAFER 2.0MM 19P		L101100041910S		
CP411		00D 963 0315 001	CN.WAFER 2.0MM 20P		L101100042010S		
CP413	nsp	00D 963 0087 601	CN.WAFER 2.0MM 18P		L101100041810S		
CP414	nsp	00D 963 0097 507	CN.WAFER 2.0MM 15P		L101100041510S		
CP415	nsp	00D 963 0097 507	CN.WAFER 2.0MM 15P		L101100041510S		
CP416	nsp	00D 963 0206 505	CN.WAFER 2.0MM 9P		L101100040910S		
CP419	nsp	00D 963 0235 806	CN.WAFER 2.0MM		L101220030000S		
G301		-	RING,TER WIRE 120MM/1P		8410121010060S		*
JK301		00D 963 0294 708	JACK,D6.5 PHONE		G402PJ612AG0YS		
L301	nsp	00D 960 0128 008	COIL,INDUCTOR 100UH		D330101001020S		
RMC301		00D 963 0217 808	COIL,INDUCTOR 100UH 38KHZ		E940343800010S		
SW301-310		00D 963 0095 305	SW,TACT SKHV10910D01		G180040500010S		
SW311		00D 963 0200 103	SW,TACT SKHV10920A		G180000270010S		
SW312		00D 963 0095 305	SW,TACT SKHV10910D01		G180040500010S		
SW313,314		00D 963 0200 103	SW,TACT SKHV10920A		G180000270010S		
SW315		00D 963 0095 305	SW,TACT SKHV10910D01		G180040500010S		
SW316-322		00D 963 0200 103	SW,TACT SKHV10920A		G180000270010S		
SW326		00D 963 0145 802	SW,PUSH SDDL-005-S(C-UL)		G000122006060S		
VEC301		00D 963 0095 208	SW,ENCODER EC16B24SA		G121162400040S		
VEC302		00D 963 0300 401	SW,ENCODER EC11B20C2		G121112020000S		
FLT301		00D 963 0300 906	DISPLAY,FLT 16-ST-87GINK		K530168700010S		
XTL401		00D 963 0217 701	RESONATOR ZTT12.00MT-TF		E830120000060S		
JP402-404		00D 963 0258 003	R,CHIP 0-J,1/8W		C200000061300S		
JP416-419		00D 963 0258 003	R,CHIP 0-J,1/8W		C200000061300S		
JP422-428		00D 963 0258 003	R,CHIP 0-J,1/8W		C200000061300S		
		-	HOLDER FLT		4320210536000S		

INPUT P.W.B. UNIT ASS'Y

Ref. No.	nsp	Part No.	Part Name	Remarks	Q'ty	New
SEMICONDUCTORS GROUP						
IC101		00D 963 0295 202	IC NJW1197		J084119700010S	
IC104-114		00D 963 0202 305	IC NJM2068M		J121206800020S	
IC115,116		00D 963 0116 103	IC MM74HC4053MX		J040744053040S	
IC120		00D 963 0202 305	IC NJM2068M		J121206800020S	
Q151FL		00D 960 0196 807	TR 2SK117Y		J5441170Y0050S	
Q151FR		00D 960 0196 807	TR 2SK117Y		J5441170Y0050S	
Q152FL		00D 960 0196 807	TR 2SK117Y		J5441170Y0050S	
Q152FR		00D 960 0196 807	TR 2SK117Y		J5441170Y0050S	
Q153,154		00D 963 0121 402	TR KRA104S		J520010400210S	
Q155		00D 960 0285 006	TR KRC104S (ND)		J522104S00210S	
D151FL		00D 963 0219 709	D,SWITCHING 1N4148W		K005041480020S	
D151FR		00D 963 0219 709	D,SWITCHING 1N4148W		K005041480020S	
D152FL		00D 963 0219 709	D,SWITCHING 1N4148W		K005041480020S	
D152FR		00D 963 0219 709	D,SWITCHING 1N4148W		K005041480020S	
ZD101,102		00D 963 0314 206	D,ZENER MTZJ7.5B		K06007R544520S	
RESISTORS GROUP						
R3		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S	
R432,433		00D 963 9005 668	R,METAL FILM 220-J,1W		C060022165050S	
R436,437		00D 963 9005 639	R,METAL FILM 100-J,1W		C060010165060S	
CAPACITORS GROUP						
C101,102	nsp	00D 963 0233 604	C,CERAMIC 220PF-J/50V		D010221167160S	
C103,104		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S	
C105,106	nsp	00D 963 0312 305	C,ELECT 220UF-M/16V		D040221083110S	
C107,108		00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S	
C109,110		00D 963 0216 605	C,FILM 0.024UF-J/50V		D020243167050S	*
C111,112		00D 963 0216 809	C,FILM 0.0068UF-J/50V		D020682167050S	*
C113,114		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S	
C119,120	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S	
C121		00D 963 9003 372	R,CHIP 0-J,1/16W		C20000006M160S	
C122	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S	
C123		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S	*
C124	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S	
C126-128	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S	
C130	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S	
C131		00D 963 9003 372	R,CHIP 0-J,1/16W		C20000006M160S	
C132	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S	
C133-146		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S	
C147		00D 960 9010 010	C,ELECT GE 85C 4.7UF-M/50V		D0404R7087250S	
C148		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S	*
C149		00D 963 0276 108	C,CERAMIC 3300PF-K/50V		D011332777160S	
C150		00D 963 0310 909	C,ELECT GE 85C 1UF-M/50V		D040010087070S	
C151		00D 960 9010 010	C,ELECT GE 85C 4.7UF-M/50V		D0404R7087250S	
C152		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S	*
C153		00D 963 0276 108	C,CERAMIC 3300PF-K/50V		D011332777160S	
C154-161		00D 963 9005 862	C,ELECT GE 85C 47UF-M/16V		D040470083080S	
C162,163		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S	
C164		00D 963 0310 909	C,ELECT GE 85C 1UF-M/50V		D040010087070S	
C165-172		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S	
C173,174		00D 963 0333 203	C,ELECT 100UF-M/16V		D040101083090S	*

Ref. No.	nsp	Part No.	Part Name	Remarks		Q'ty	New
C175-177		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C180,181		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C182-184	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C185,186		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C186FL		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C186FR		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C186L2		00D 963 0333 106	C,FILM 0.068UF-K/63V		D020683078060S		*
C186L3		00D 963 0333 106	C,FILM 0.068UF-K/63V		D020683078060S		*
C186R2		00D 963 0333 106	C,FILM 0.068UF-K/63V		D020683078060S		*
C186R3		00D 963 0333 106	C,FILM 0.068UF-K/63V		D020683078060S		*
C187		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C187L2		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C187L3		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C187R2		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C187R3		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C187SW	nsp	00D 963 0233 808	C,CERAMIC 47PF-J/50V		D010470167160S		
C188		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C188FL		00D 963 0333 106	C,FILM 0.068UF-K/63V		D020683078060S		*
C188FR	nsp	00D 963 0333 106	C,FILM 0.068UF-K/63V		D020683078060S		*
C188SW	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C189		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C189	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C189FL		00D 963 0216 605	C,FILM 0.024UF-J/50V		D020243167050S		*
C189FR		00D 963 0216 605	C,FILM 0.024UF-J/50V		D020243167050S		*
C189L2		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C189L3		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C189R2		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C189SW		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C190		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C190L2		00D 963 0333 106	C,FILM 0.068UF-K/63V		D020683078060S		*
C190L3		00D 963 0333 106	C,FILM 0.068UF-K/63V		D020683078060S		*
C190R2		00D 963 0333 106	C,FILM 0.068UF-K/63V		D020683078060S		*
C190R3		00D 963 0333 106	C,FILM 0.068UF-K/63V		D020683078060S		*
C191		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C192		00D 963 9005 875	C,ELECT 47UF-M/25V		D040470084070S		
C193		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C194,195		00D 963 9005 875	C,ELECT 47UF-M/25V		D040470084070S		
C196-203		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C204-219		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C220		00D 963 9005 875	C,ELECT 47UF-M/25V		D040470084070S		
C221,222		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
OTHERS PARTS GROUP							
CN102		00D 963 0314 303	CN,WIRE 180MM/4P		L000181040080S		
CP101		00D 963 0314 905	CN.WAFER 2.0MM 20P		L101100032010S		
CP102	nsp	00D 963 0086 204	CN.WAFER 2.0MM 19P		L101100031910S		
JACK103		00D 960 0268 803	TER,RCA 6PIN		G603603B09000S		
JACK104		00D 963 0146 209	TER,RCA 4PIN		G602405B01000S		
JACK106		00D 963 0158 501	TER,RCA 2PIN		G601207AE010YS		
L103-107	nsp	00D 963 0220 002	BEAD,COIL 121JT		7611010000020S		
LUG101,102	nsp	00D 960 0260 005	CLAMP WIRE(SOLDER)		4330000120000S		

XM-READY P.W.B. UNIT ASS'Y

Ref. No.	nsp	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
IC201		00D 960 0174 104	IC CXA1511M-T4		J030151100010S		
IC203		00D 262 3517 907	IC F2602-1XM		J080260200010S		*
IC204		00D 262 2517 908	IC SN74LVO8APW		J040740800200S		*
IC205,206		00D 262 2813 903	IC SN74AHCTO8		J040740800190S		*
IC207		00D 963 0294 902	IC AK4385		J042438500010S		
IC208		00D 963 0300 702	IC LM1117S-3.35V		J126111733030S		
IC209		00D 963 0202 305	IC NJM2068M		J121206800020S		
IC210		00D 263 1092 003	IC BA05T		J126050000020S		*
IC211		00D 262 2813 903	IC SN74AHCTO8		J040740800190S		*
Q201		00D 963 0044 301	TR KTC2875B(MB)		J5222875B0010S		
Q202		00D 963 0245 003	TR 2SC KRC106S (NF)		J522010600210S		
Q203		00D 963 0121 402	TR KRA104S		J520010400210S		
Q204		00D 963 0044 301	TR KTC2875B(MB)		J5222875B0010S		
Q205		00D 963 0121 703	TR 2SA KRA107S (PH)		J5200107S0050S		
Q206		00D 963 0245 003	TR 2SC KRC106S (NF)		J522010600210S		
Q207		00D 963 0120 704	TR KRA102S(PB)		J520010200210S		
Q208-211		00D 963 0044 301	TR KTC2875B(MB)		J5222875B0010S		
Q212		00D 963 0245 003	TR 2SC KRC106S (NF)		J522010600210S		
Q213		00D 963 0120 704	TR KRA102S(PB)		J520010200210S		
D201-209		00D 963 0219 709	D,SWITCHING 1N4148W		K005041480020S		
ZD201		00D 960 0095 704	D,ZENER MTZJ6.2B		K06006R244520S		
RESISTORS GROUP							
R294,295		00D 963 9005 639	R,METAL FILM 100-J,1W		C060010165060S		
CAPACITORS GROUP							
C201		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C202		00D 963 0293 602	C,ELECT 1UF-M/50V (Pb Free)		D040010087150S		
C203		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C204	nsp	00D 963 9004 698	C,CERAMIC 0.01UF-K/50V		D011103777160S		
C205	nsp	00D 963 9006 528	C,CERAMIC 20PF-J/50V		D010200167160S		
C206	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C207		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C208	nsp	00D 963 9006 528	C,CERAMIC20PF-J/50V		D010200167160S		
C209	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C210,211		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C212	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C213		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C214-218	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C219		00D 960 9010 010	C,ELECT GE 85C 4.7UF-M/50V		D0404R7087250S		
C220		00D 963 0332 806	C,FILM 0.012UF-J/100V		D02012306C060S		*
C224		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C225,226		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C227		00D 963 0275 701	C,CERAMIC 6PF-D/50V		D010060117160S		
C228,229		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C230		00D 963 0275 701	C,CERAMIC 6PF-D/50V		D010060117160S		
C231		00D 963 0332 806	C,FILM 0.012UF-J/100V		D02012306C060S		*
C232		00D 963 9005 875	C,ELECT 47UF-M/25V		D040470084070S		
C233-236		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C237	nsp	00D 963 0224 105	C,CERAMIC 1000PF-K/50V		D011102777160S		
C238		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*

Ref. No.	nsp	Part No.	Part Name	Remarks	Q'ty	New
C239	nsp	00D 963 0224 105	C,CERAMIC 1000PF-K/50V		D011102777160S	
C240		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S	*
C241		00D 963 0311 607	C,ELECT 100UF-M/10V(Pb Free)		D040101082090S	
C242		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S	*
C243	nsp	00D 963 0224 105	C,CERAMIC 1000PF-K/50V		D011102777160S	
C244	nsp	00D 963 0233 808	C,CERAMIC 47PF-J/50V		D010470167160S	
C245,246		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S	
C247	nsp	00D 963 9004 698	C,CERAMIC 0.01UF-K/50V		D011103777160S	
C248,249		00D 963 0332 602	C,CERAMIC 3300PF-K/50V		D010332777160S	*
C250-253		00D 963 0224 008	C,CERAMIC 470PF-J/50V		D010471167160S	
C254		00D 963 0244 606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10087080S	
C255,256		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S	
C257,258		00D 963 0312 208	C,ELECT 22UF-M/50V		D040220087100S	
C259,260		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S	
C261,262	nsp	00D 963 9006 528	C,CERAMIC 20PF-J/50V		D010200167160S	
C263		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S	*
C264	nsp	00D 963 0224 105	C,CERAMIC 1000PF-K/50V		D011102777160S	
C265		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S	
C266,267		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S	*
C268	nsp	00D 963 9004 698	C,CERAMIC 0.01UF-K/50V		D011103777160S	
C269-271	nsp	00D 963 0233 808	C,CERAMIC 47PF-J/50V		D010470167160S	
C272,273		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S	*
C274		00D 963 9003 372	R,CHIP 0-J,1/16W		C20000006M160S	
C275		00D 963 0312 004	C,ELECT 22UF-M/25V		D040220084050S	
OTHERS PARTS GROUP						
BD201		00D 963 0312 800	COIL,LINE BFS2550A0F1		D320255000520S	
BD202	nsp	00D 963 0234 603	COIL,BEAD MB-160808		D340160800060S	
BD203-205	nsp	00D 963 0220 002	BEAD,COIL 121JT		7611010000020S	
BD206		-	R,CHIP 1/10W		C200000060200S	
BD207	nsp	00D 963 0220 002	BEAD,COIL 121JT		7611010000020S	
BD208		-	R,CHIP 1/10W		C200000060200S	
BD209	nsp	00D 963 0220 002	BEAD,COIL 121JT		7611010000020S	
BD210-218	nsp	00D 963 0234 603	COIL,BEAD MB-160808		D340160800060S	
BD219,220	nsp	00D 963 0220 002	BEAD,COIL 121JT		7611010000020S	
BD221		-	R,CHIP 1/10W		C200000060200S	
BD222-224	nsp	00D 963 0234 603	COIL,BEAD MB-160808		D340160800060S	
BD225		-	R,CHIP 1/10W		C200000060200S	
BD226	nsp	00D 963 0234 603	COIL,BEAD MB-160808		D340160800060S	
BD227	nsp	00D 963 0220 002	BEAD,COIL 121JT		7611010000020S	
CN202		00D 963 0314 905	CN.WAFER 2.0MM 20P		L101100032010S	
CN203	nsp	00D 963 0086 301	CN.WAFER 18P		L101100031810S	
CP201	nsp	00D 963 0068 303	CN.WAFER 9P		L101220090000S	
GND201		-	SHIELD PLATE GND		3070045526010S	
JACK201,202		00D 963 0244 703	JACK,D3.5 EARPHONE		G40130802000YS	
JACK203		00D 205 1362 009	CN.WAFER 4P		L109040000010S	*
JACK204		00D 963 0294 601	JACK,D3.5 EARPHONE		G40100350000YS	
JACK205		00D 963 0146 005	TER,RCA 1PIN		G600107A0000YS	
JACK206		00D 963 0146 209	TER,RCA 4PIN		G602405B01000S	
XTAL201		00D 963 0313 304	CRYSTAL FCX-02(45.1584MHz)		E80545R150010S	

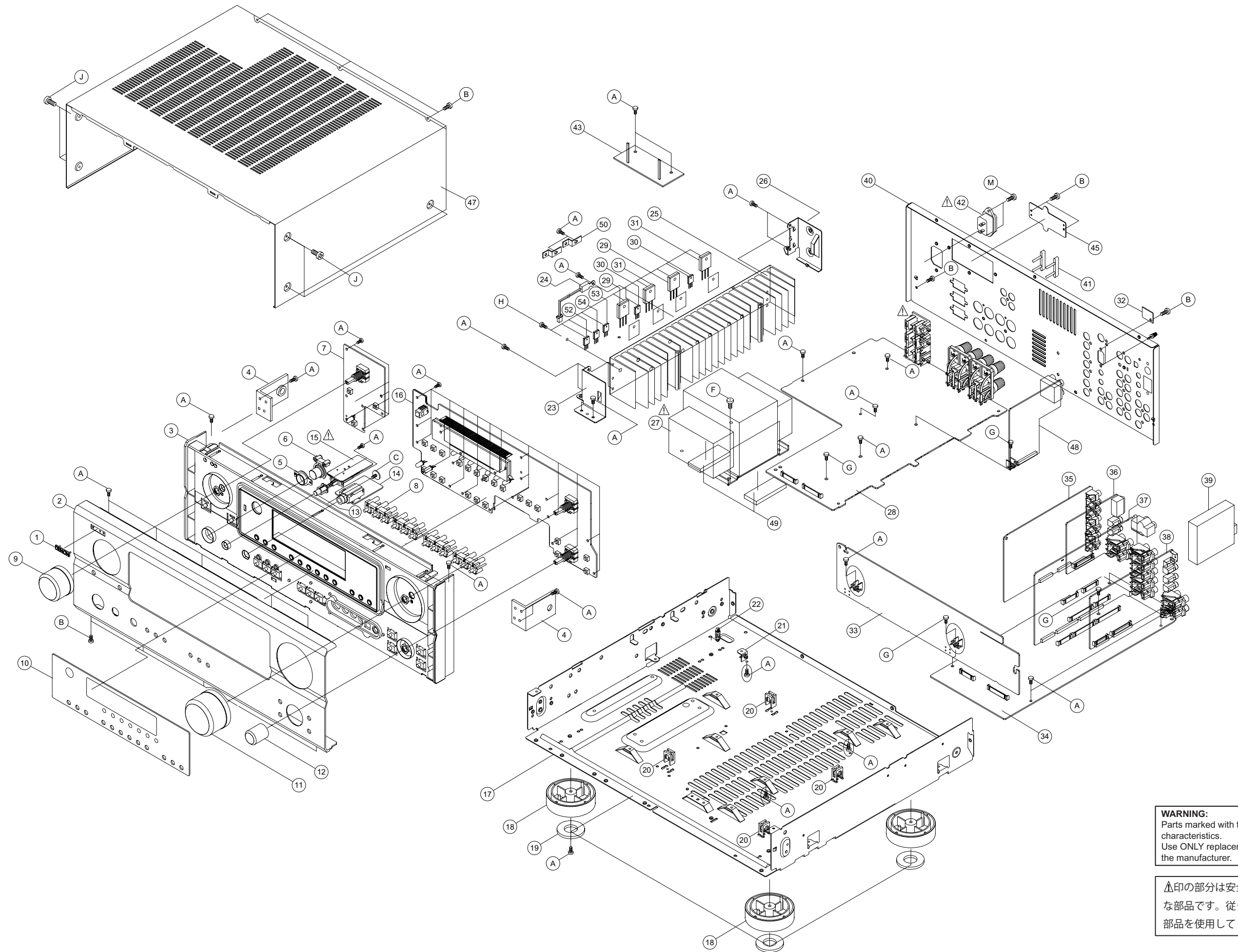
MULTI P.W.B. UNIT ASS'Y


Ref. No.	nsp	Part No.	Part Name	Remarks		Q'ty	New
SEMICONDUCTORS GROUP							
IC602		00D 963 0333 902	IC HIN202EIBN		J040202000020S		
IC603		00D 963 0334 008	IC SN74HAHCT08		J040740800180S		
Q607,608		00D 963 0044 301	TR KTC2875B(MB)		J5222875B0010S		
Q611		00D 963 0245 003	TR 2SC KRC106S (NF)		J522010600210S		
Q612		00D 963 0121 402	TR KRA104S		J520010400210S		
Q613-616		00D 963 0044 301	TR KTC2875B(MB)		J5222875B0010S		
Q617		00D 963 0255 802	TR 2SC KTC3199Y		J5023199Y0010S		
Q618		00D 963 0148 508	TR KTA1504S		J520015040150S		
Q619		00D 963 0245 003	TR 2SC KRC106S (NF)		J522010600210S		
Q620,621		00D 963 0044 301	TR KTC2875B(MB)		J5222875B0010S		
Q622		00D 963 0121 402	TR KRA104S		J520010400210S		
Q623		00D 963 0245 003	TR 2SC KRC106S (NF)		J522010600210S		
Q639-642		00D 963 0044 301	TR KTC2875B(MB)		J5222875B0010S		
Q701-704		00D 963 0044 301	TR KTC2875B(MB)		J5222875B0010S		
D601,602		00D 963 0219 709	D,SWITCHING 1N4148W		K005041480020S		
D701,702		00D 963 0219 709	D,SWITCHING 1N4148W		K005041480020S		
ZD310,311		00D 960 0095 607	D,ZENER MTZJ5.6B		K06005R644520S		
ZD601		00D 963 0219 903	D,ZENER MTZJ16B		K06016R044520S		
ZD602		00D 963 0058 601	D,ZENER MTZJ12B		K06012R044520S		
ZD603		00D 963 0219 903	D,ZENER MTZJ16B		K06016R044520S		
LED303		00D 963 0148 605	LEDSML1216W(REL/GREEN)		K500052600030S		
RESISTORS GROUP							
R647		00D 963 0215 800	R,METAL FILM 390-J,1W		C060039165050S		
CAPACITORS GROUP							
C330,331		00D 963 0233 303	C,CERAMIC 0.01UF-M/16V		D005103773530S		
C615		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C618-621	nsp	00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C622-625		00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C626-629		00D 963 0244 606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10087080S		
C630		00D 963 0293 709	C,ELECT 100UF-M/10V		D040101082070S		
C631		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C632	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C633,634	nsp	00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
C635,636		00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C646		00D 963 0244 606	C,ELECT 0.1UF-M/50V (Pb Free)		D040R10087080S		
C701,702		00D 963 0312 004	C,ELECT 22UF-M/25V		D040220084050S		
C703,704	nsp	00D 963 0223 601	C,CERAMIC 100PF-J/50V		D010101167160S		
C705,706		00D 963 0234 205	C,ELECT 10UF-M/50V		D040100087070S		
C707		00D 963 0332 709	C,CERAMIC 0.1UF-K/50V		D011104577162S		*
OTHERS PARTS GROUP							
BD205	nsp	00D 963 0333 504	COIL,BEAD HB-1S1608		D340160800030S		*
BD209		00D 963 0220 002	BEAD,COIL 121JT		7611010000020S		
BD601		00D 963 0154 602	BEAD,COIL 3580-52RE-AX		7610010030000S		
BD602-604		00D 963 0220 002	BEAD,COIL 121JT		7611010000020S		


Ref. No.	nsp	Part No.	Part Name	Remarks		Q'ty	New
BD605	nsp	00D 963 0154 602	BEAD,COIL 3580-52RE-AX		7610010030000S		
BD606-609	nsp	00D 963 0220 002	BEAD,COIL 121JT		7611010000020S		
CN602	nsp	00D 963 0086 301	CN.WAFER 18P		L101100031810S		
CN603	nsp	00D 963 0085 506	CN.WAFER 9P		L101100030910S		
CN701	nsp	00D 963 0097 206	CN.WAFER 8P		L101100030810S		
CP305	nsp	00D 963 0160 900	CN.WAFER 2.0MM		L101220080010S		
JACK605		00D 963 0146 209	TER,RCA 4PIN		G602405B01000S		
JACK608		00D 963 0256 500	CN.WAFER 9P		L103090090030S		
JACK609,610		00D 963 0325 606	JACK,D3.5 EARPHONE(RD)		G40130802001YS		
JACK611		00D 963 0333 601	JACK,DIN MINI 8P		G403515397000S		*
JACK701		00D 963 0132 103	TER,RCA 4PIN		G602405B0400YS		
SW323		00D 963 0200 103	SW,TACT SKHV10920A		G180000270010S		
SW328,329		00D 963 0200 103	SW,TACT SKHV10920A		G180000270010S		
VEC305		00D 963 0095 208	SW,ENCODER EC16B24SA		G121162400040S		
	nsp	00D 960 0184 000	BRACKET SCREW		4010210196000S		

CTN P.W.B. UNIT ASS'Y

Ref. No.	nsp	Part No.	Part Name	Remarks		Q'ty	New
OTHERS PARTS GROUP							
CN407	nsp	00D 963 0097 303	CN.WAFER 2.0MM 15P		L101100031510S		
CN409	nsp	00D 963 0097 303	CN.WAFER 2.0MM 15P		L101100031510S		
CN506	nsp	00D 963 0097 303	CN.WAFER 2.0MM 15P		L101100031510S		
CN511	nsp	00D 963 0097 303	CN.WAFER 2.0MM 15P		L101100031510S		
CP901	nsp	00D 963 0235 903	CN.WAFER 2.0MM		L101220040000S		
H901,902	nsp	00D 960 0184 000	BRACKET SCREW		4010210196000S		



WARNING:
 Parts marked with this symbol  have critical characteristics.
 Use ONLY replacement parts recommended by the manufacturer.

印の部分は安全を維持するために重要な部品です。従って交換時は必ず指定の部品を使用してください。

PARTS LIST OF EXPLODED VIEW

*本表に記載されている部品は、補修用部品のため製品に使用している部品とは一部、形状、寸法などが異なる場合があります。

* The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

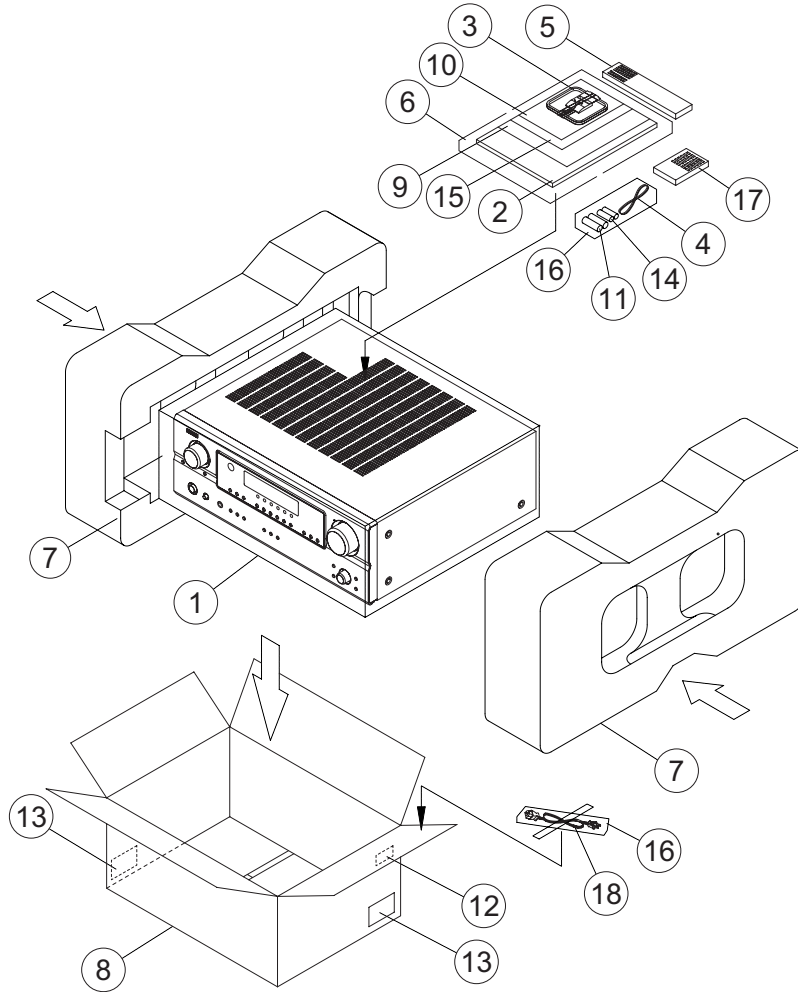
* "nsp"印の部品は常時在庫していませんので供給に長時間を要することがあります。場合によっては、供給をお断りする場合があります。

* Part indicated with the mark "nsp" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.

	Ref. No.	nsp	Part No.	Part Name	Remarks		Q'ty	New
	16A 14 15 16 34	nsp	00D 963 0331 807	FRONT P.W.B. UNIT ASSY HEAD PHONE UNIT POWER SW UNIT FRONT UNIT CPU UNIT		7025HK0605011	1	*
	28A 28 35	nsp	00D 963 0331 700	MAIN P.W.B. UNIT ASSY MAIN UNIT VIDEO UNIT		7025HK0605010	1	*
	33A 33	nsp	00D 963 0332 204	CNT P.W.B. UNIT ASSY CNT UNIT		7025HK0605015	1	*
	36A 7	nsp	00D 963 0332 107	MULTI P.W.B. UNIT ASSY FUNCTION UNIT		7025HK0605014	1	*
	36 48			MULTI UNIT MAIN COUPLER				
	37A 37 43	nsp	00D 963 0331 904	INPUT2 P.W.B. UNIT ASSY INPUT2 UNIT		7025HK0605012	1	*
	38A 38	nsp	00D 963 0332 000	XM READY P.W.B. UNIT ASSY XM READY UNIT		7025HK0605013	1	*
	1 2 3 4		00D 963 0051 501 00D 963 0331 205 00D 963 0319 007 00D 963 0138 000	BADGE DENON PANEL FRONT FRAME FRONT BRACKET SIDE L/R		5630210028000S 3067211768300S 3217211241000S 4010211986000S	1 1 1 2	*
	5 6 8 9 10		00D 963 0137 807 00D 963 0184 106 00D 963 0094 801 00D 963 0152 303 00D 963 0305 600	LENS STANDBY BUTTON STANDBY BUTTON 3KEY(A) KNOB INPUT WINDOW DISPLAY		3710210503000S 5097212368000SZ 5090211741000S 5087210938000SZ 50772119220L0S	1 1 4 1 1	
	11 12 13 17 18		00D 963 0152 604 00D 963 0297 705 00D 963 0184 009 - 00D 963 0137 904	KNOB VOLUME KNOB SELECT(KD) BUTTON POWER CHASSIS MAIN FOOT		5087210948000SZ 5087211298000SZ 5097212358000SZ 3200210146306S 4007210261000S	1 1 1 1 4	
	19 20 21 22 23	nsp	00D 963 0214 607 00D 960 0003 301 00D 960 0184 107 - 00D 960 0184 301	CUSHION FOOT SUPPORTER PCB BRACKET SUPPORTER SUPPORTER P.C. BRACKET HEAT SINK-F		4050211295000S 4070001601010S 4010210206000S 4070210192000S 4010210396000S	4 4 1 1 1	
	24 25 26 27 29 30		00D 960 0187 900 - 00D 960 0184 204 00D 963 0332 301 00D 963 0235 204 00D 963 0280 107	POSISTOR P43T7D330BW16 HEAT SINK MAIN BRACKET HEAT SINK-B POWER TRANS MAIN TR, 2SB1647Y TR, 2SC3964		F320161001020S 2120210968200S 4010210386000S 8200990630010S J5011647Y0170S J502396400000S	1 1 1 1 2 2	*
					Q507FL,Q507FR			
					Q505FL,Q505FR			

	Ref. No.	nsp	Part No.	Part Name	Remarks		Q'ty	New
	31		00D 963 0235 301	TR, 2SD2560Y	Q506FL, Q506FR	J5032560Y0170S	2	
	32		00D 963 0344 603	PLATE (A)		4477211146000S	1	*
	39		00D 963 0145 608	TUNER FM/AM		E903014000020S	1	
	40		-	CHASSIS BACK		3207211966000S	1	
⚠	41		00D 960 0190 007	CORD RCA JUMPER PLUG		L063040750000S	1	
	42		00D 963 0158 404	SOCKET POWER AC AC INLET		G430040560020S	1	
	45		00D 963 0315 807	PLATE TUNER B		4470211006010S	1	
	47	nsp	00D 963 01838 06	CABINET TOP		3000210026002S	1	
	49		00D 963 0331 302	CUSHION TRANS BOTTOM		4050211635000S	2	*
	50	nsp	00D 963 0101 600	BRACKET PCB		4010210186000S	2	
	52		00D 963 0334 503	IC,PQ20RX11	IC505	J126201100010S	1	*
	53		00D 963 0334 600	IC,KIA7815API	IC501	J126781500000S	1	*
	54		00D 963 0147 800	IC,KIA7915PI	IC502	J126791500030S	1	
	★ 55		-	TERMINAL		3790000090000S	1	
	★ 56		-	LABEL RATING		5527042410290S	1	
	★ 57		00D 963 0315 506	CABLE,FLAT CARD		L301171230020S	1	
	★ 58		00D 963 0315 603	CABLE,FLAT CARD 1.25MM		N712151743810S	1	
SCREWS								
	A	nsp	00D 963 0018 007	SCREW(3*8 B-TYPE ZNW/BH)		B020030081B10S	74	
	B	nsp	00D 960 0108 701	SCREW(3*10 B-TYPE(DOT) BK/BH)		B020030103B11S	35	
	C	nsp	00D 960 9008 420	SCREW(3*8 ZnY WASHER PI12)		1500001456010S	1	
	F		00D 960 9008 417	SCREW(4*8 P+S-WASHER ZNW/BH)		B028940081B10S	4	
	G	nsp	00D 963 0018 104	SCREW(3*17 B-TYPE ZNW/BH)		B020030171B10S	4	
	H	nsp	00D 963 9006 175	SCREW(3*14 P(Ø6)+S-WASHER ZNY/HH)		B018230141H11S	9	
	J	nsp	00D 963 0048 307	SCREW(4*8 B-TYPE(DOT) BK/BH)		1500040083B10S	6	
	M	nsp	00D 963 9006 735	SCREW(3*10 B-TYPE BK/FH)		B020030103F10S	2	

PACKING VIEW



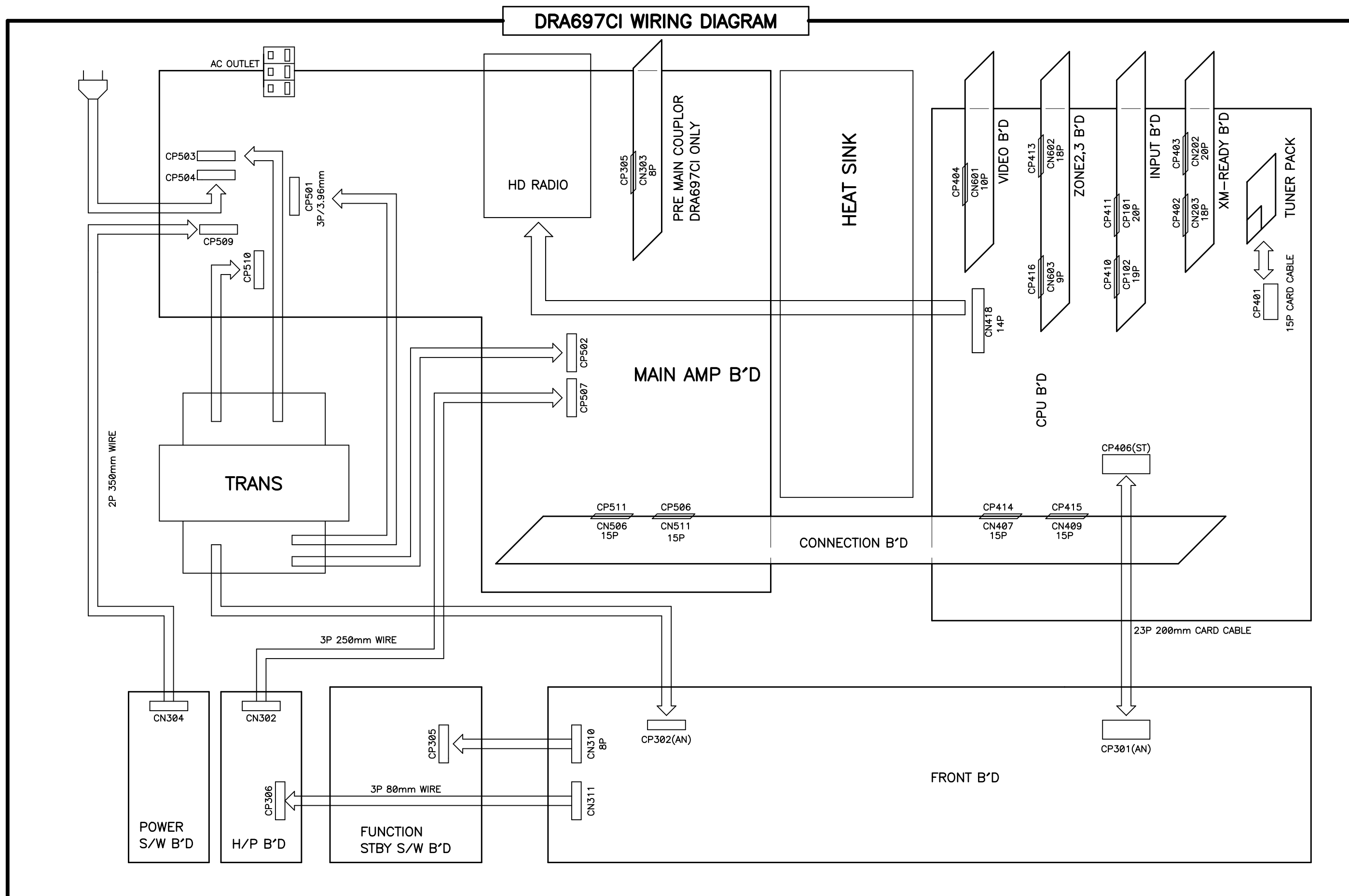
PARTS LIST OF PACKING & ACCESSORIES

* 本表に記載されている部品は、補修用部品のため製品に使用している部品とは一部、形状、寸法などが異なる場合があります。
 * The parts listed below are for maintenance only, might differ from the parts used in the unit in appearances or dimensions.

* "nsp" 印の部品は常時在庫していませんので供給に長時間を要することがあります。場合によっては、供給をお断りする場合があります。
 * Part indicated with the mark "nsp" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.

	Ref. No.	nsp	Part No.	Part Name	Remarks		Q'ty	New
	1	nsp	00D 963 0241 405	POLY BAG SET		6327040059000S	1	
	2		00D 963 0331 409	INSTRUCTION MANUAL		5707210130270S	1	*
	3		00D 231 0089 007	AM ANTENNA,WIRE		E605010110010S	1	
	4		00D 963 0158 006	FM ANTENNA,WIRE		E605010070001S	1	
	5		00D 963 0307 307	REMOTE CONTROL	RC-1052	8300105200010S	1	
	6	nsp	00D 963 0045 106	POLY BAG		6330000240000S	1	
	7	nsp	00D 963 0331 603	CUSHION SNOW L/R		6230210124002S	1	*
	8	nsp	00D 963 0331 506	BOX GIFT		6007210510310S	1	*
	9		-	CARD WARRANTY		5777001610036S	1	
	10		-	CARD S.S LIST		5777001620019S	1	
	11		-	BATTERY DRY		G670001R50210S	2	
	12		-	LABEL UPC		5507002360290S	1	
	13		-	LABEL CONTROL		5500014920010S	2	
	14		-	BATTERY,DRY		G670001R50190S	1	
	15		-	WARRANTY CARD XM RADIO		5727001230051S	1	
	16	nsp	00D 963 0268 006	POLY BAG ACCESSORY		6330210222000S	2	
	17		00D 963 0310 307	REMOTE CONTROL(ZONE 2)	RC-1056	8300105600010S	1	
	18		00D 963 0330 002	CORD ASSY		L068125130010S	1	
⚠	★ 19		00D 513 4162 000	CI STICKER			1	

WIRING DIAGRAM



NOTE FOR SCHEMATIC DIAGRAM

WARNING:

Parts marked with this symbol \triangle have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

WARNING:

DO NOT return the unit to the customer until the problem is located and corrected.

NOTICE:

ALL RESISTANCE VALUES IN OHM. k=1,000 OHM
M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD.
P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT
NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE
WITHOUT PRIOR NOTICE.

配線図について

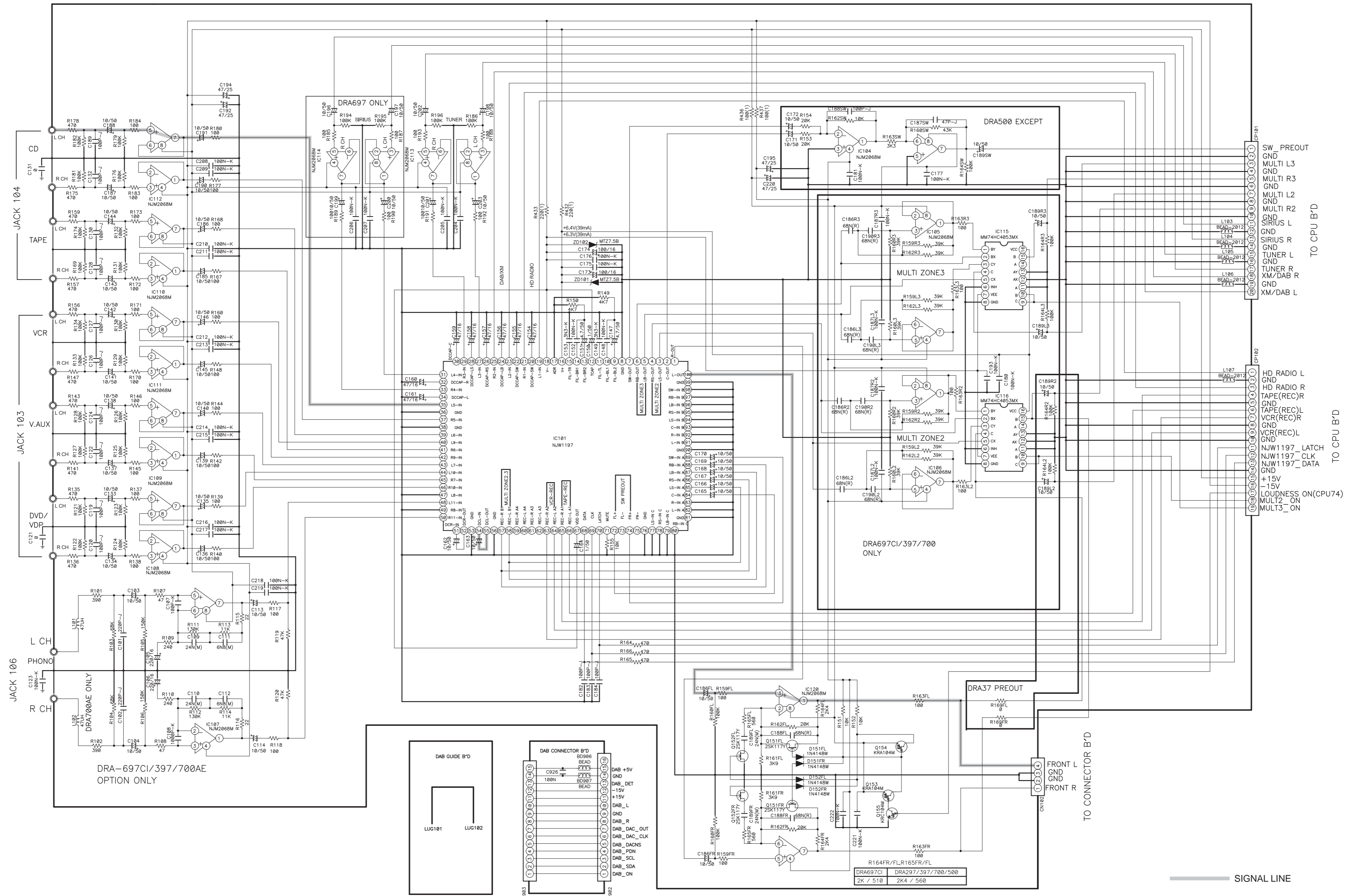
\triangle 印の部品は安全を維持するために重要な部品です。従って交換時は必ず指定の部品を使用してください。

注)

- (1) 指定なき抵抗値は Ω 、k は k Ω 、M は M Ω を示す。
- (2) 指定なきコンデンサーの値は μF 、p は pF を示す。
- (3) 各部の電圧は無信号の値を示す。
- (4) この配線図は基本配線図です。改良等のため変更することがありますのでご了承ください。

SCHEMATIC DIAGRAMS (1/7)

1 2 3 4 5 6 7 8 9 10 11



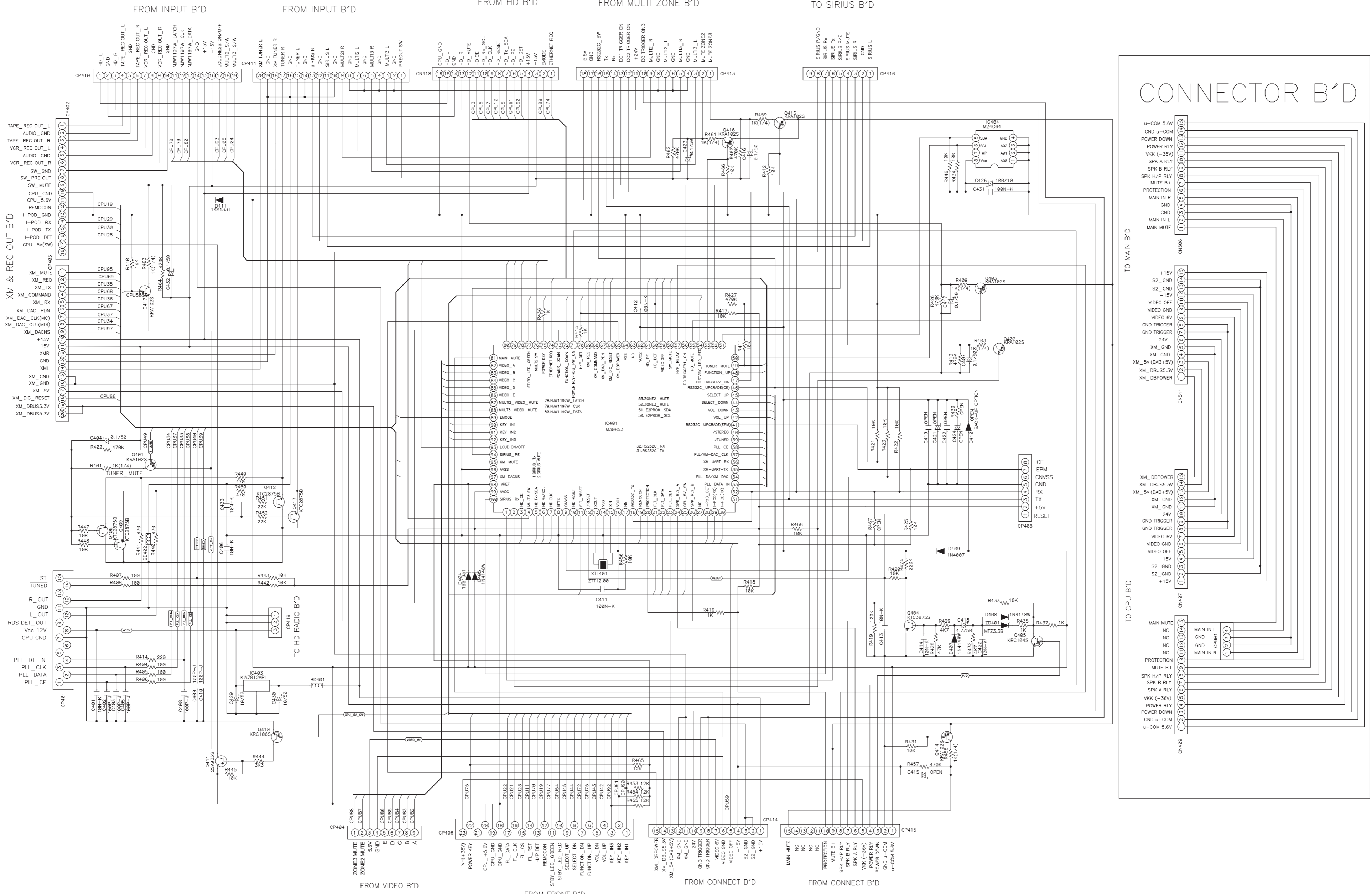
A
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SIGNAL LINE

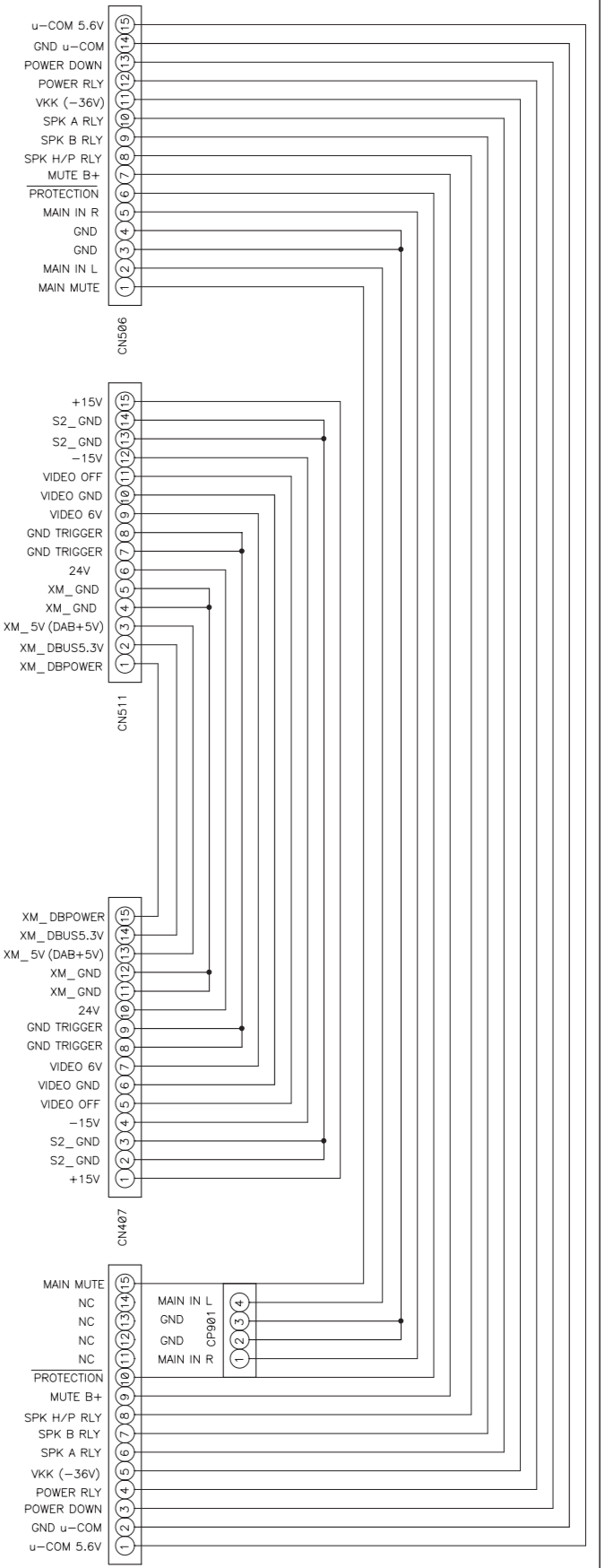
SCHEMATIC DIAGRAMS (1/7)
INPUT/GUIDE UNIT

SCHEMATIC DIAGRAMS (2/7)

1 2 3 4 5 6 7 8 9 10 11

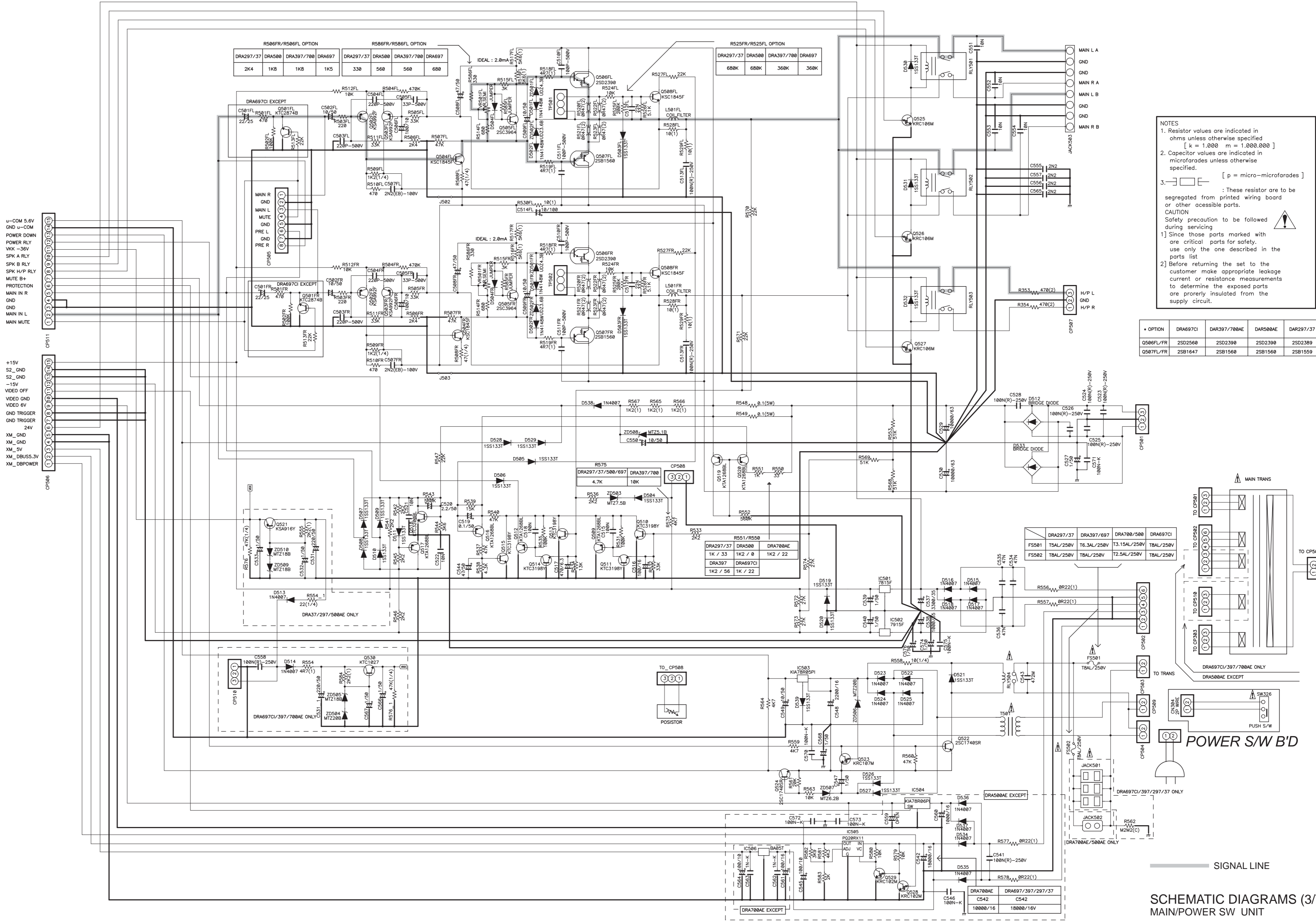


CONNECTOR B'D



SCHEMATIC DIAGRAMS (3/7)

1 2 3 4 5 6 7 8 9 10 11

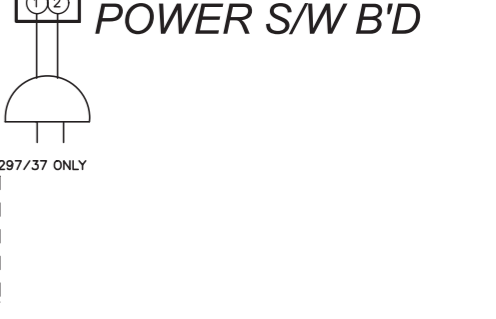
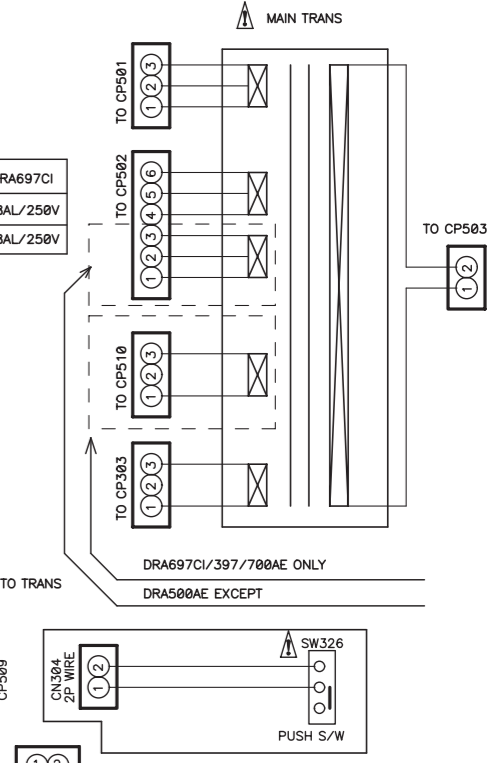


u-COM 5.6V
GND u-COM
POWER RLY
VKK -36V
SPK A RLY
SPK B RLY
SPK H/P RLY
MUTE B+
PROTECTION
MAIN IN R
GND
MAIN IN L
MAIN MUTE
CP511

+15V
S2_GND
S2_GND
-15V
VIDEO OFF
VIDEO GND
VIDEO BV
GND TRIGGER
GND TRIGGER
24V
XM_GND
XM_GND
XM_5V
XM_DBUSS.3V
XM_DBPOWER
CP506

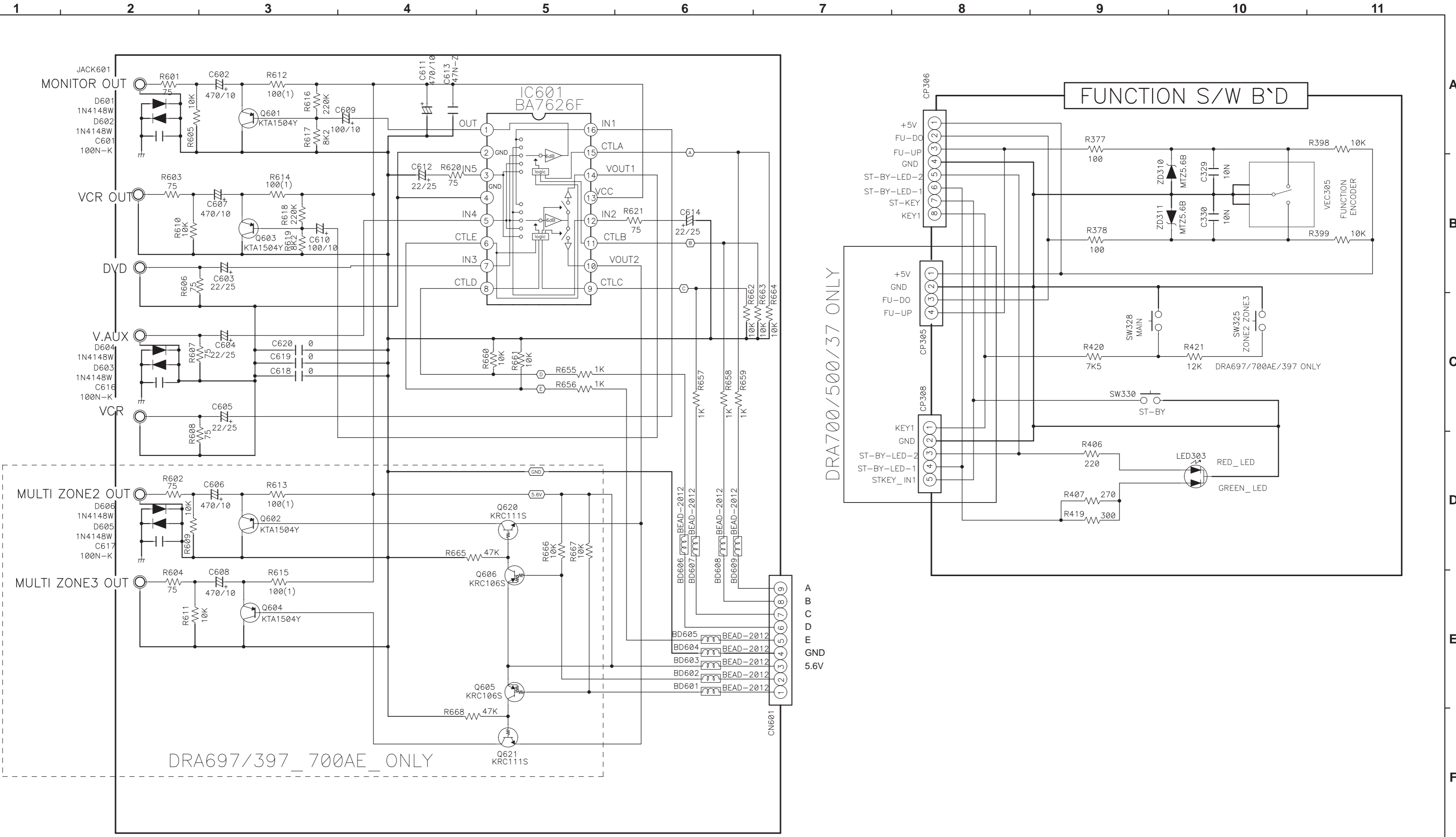
NOTES
1. Resistor values are indicated in ohms unless otherwise specified
[k = 1.000 m = 1.000.000]
2. Capacitor values are indicated in microfarads unless otherwise specified.
3. [p = micro-microfarads]
: These resistor are to be segregated from printed wiring board or other accessible parts.
CAUTION
Safety precaution to be followed during servicing
1) Since those parts marked with are critical parts for safety, use only the one described in the parts list
2) Before returning the set to the customer, make appropriate leakage current or resistance measurements to determine the exposed parts are properly insulated from the supply circuit.

OPTION	DRA697CI	DRA397/780AE	DRA508AE	DRA297/37
Q506FL/FR	2SD2560	2SD2398	2SD2398	2SD2389
Q507FL/FR	2SB1647	2SB1568	2SB1568	2SB1559



SIGNAL LINE
SCHEMATIC DIAGRAMS (3/7)
MAIN/POWER SW UNIT

SCHEMATIC DIAGRAMS (4/7)



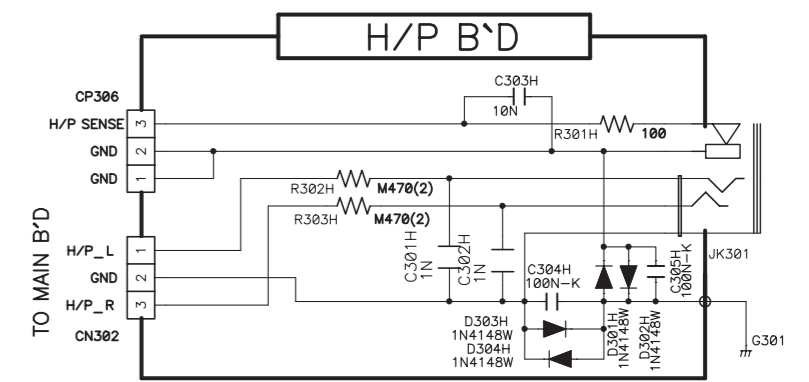
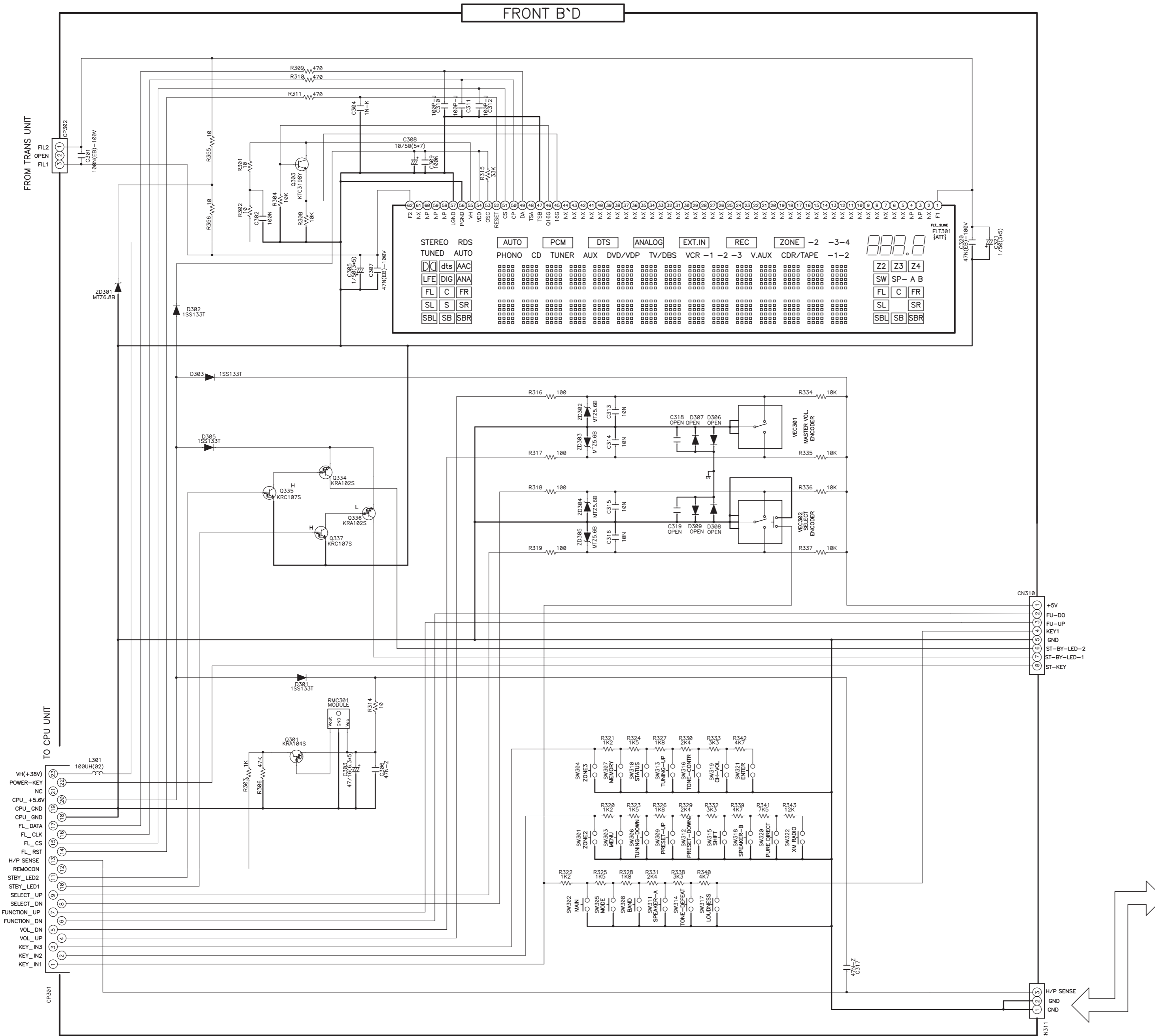
DRA697/397_700AE_ONLY

A	B	E	MONITOR OUT	C	D	E	V OUT2	C	D	E	V OUT1
L	L	*	IN1(VCR OUT)	L	L	*	IN1(VCR OUT)	L	L	*	-
H	L	*	IN2(MUTE)	H	L	*	-	H	L	*	IN2(X)
L	H	*	IN3(DVD/VIP)	L	H	*	IN3(DVD/VIP)	L	H	*	IN3(DVD/VIP)
H	H	L	IN4(V.AUX)	H	H	L	IN4(V.AUX)	H	H	L	IN4(V.AUX)
H	H	H	IN5(X)	H	H	H	IN5(MUTE)	H	H	H	IN5(MUTE)

SCHEMATIC DIAGRAMS (5/7)

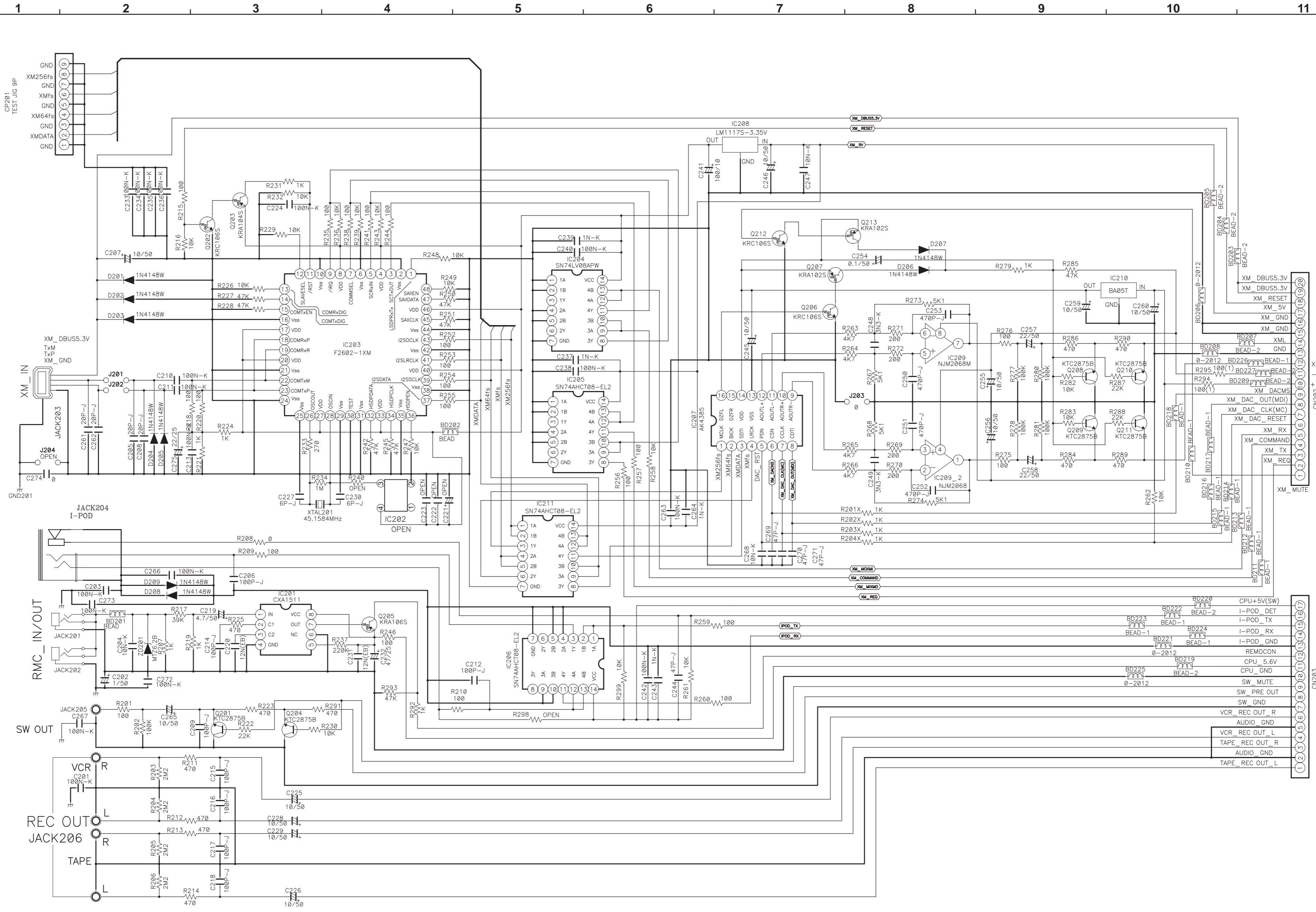
1 2 3 4 5 6 7 8 9 10 11

A
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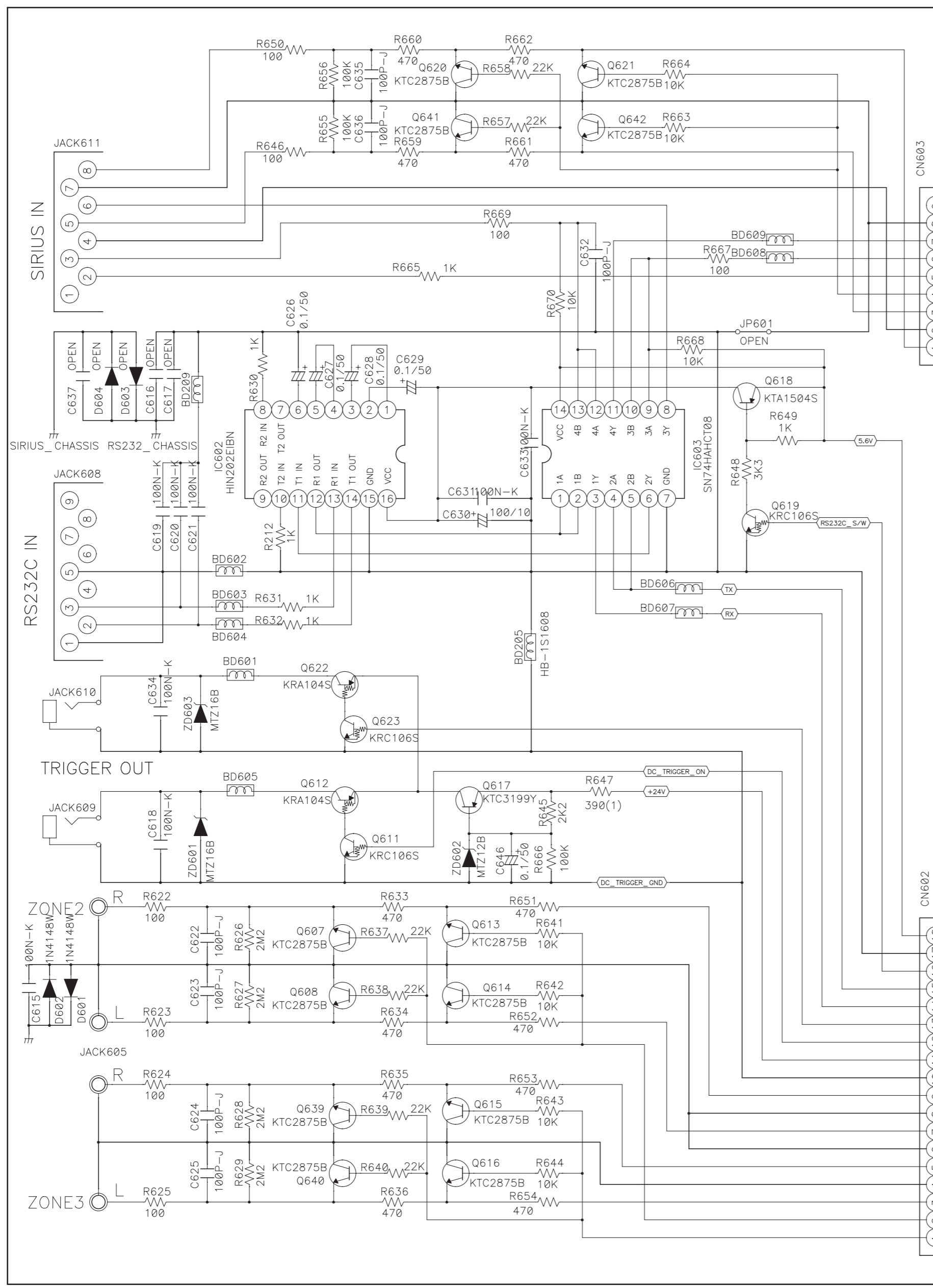
SCHEMATIC DIAGRAMS (5/7) FRONT/HEAD PHONE UNIT

SCHEMATIC DIAGRAMS (6/7)



SCHEMATIC DIAGRAMS (7/7)

1 2 3 4 5 6 7 8 9 10 11



- SIRIUS DET
- SIRIUS P/GND
- SIRIUS Rx
- SIRIUS Tx
- SIRIUS P/E
- SIRIUS MUTE
- SIRIUS R
- GND
- SIRIUS L

- 5.6V
- GND
- RS232C_SW
- Tx
- Rx
- DC1 TRIGGER ON
- DC2 TRIGGER ON
- +24V
- DC TRIGGER GND
- ZONE2 R
- GND
- ZONE2 L
- GND
- ZONE3 R
- GND
- ZONE3 L
- MUTE ZONE2
- MUTE ZONE3

