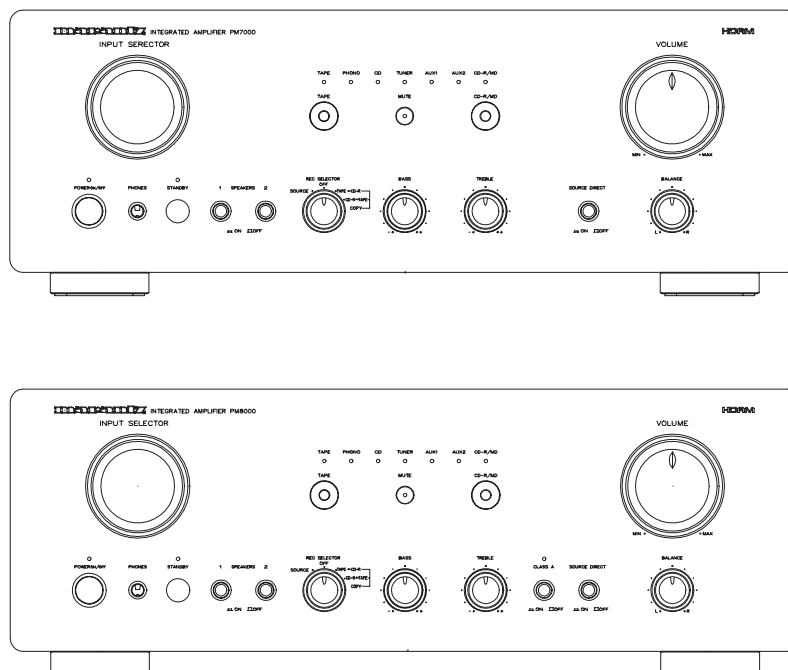


Service Manual

PM7000 /N1B, /N1G, /U1B
PM8000 /N1B, /N1G, /F1B, /F1N
Integrated amplifier



PM7000/8000

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Please use this service manual with referring to the user guide (D.F.U) without fail.

修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行って下さい。

marantz®

- PM7000 / PM8000 -

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Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

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Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

USA

MARANTZ AMERICA, INC.
440 MEDINAH ROAD
ROSELLE, ILLINOIS 60172
USA
PHONE : 630 - 307 - 3100
FAX : 630 - 307 - 2687

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MARANTZ EUROPE B.V.
P.O.BOX 80002, BUILDING SFF2
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THE NETHERLANDS
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FAX : +31 - 40 - 2735578

BRAZIL

MARANTZ BRAZIL
CAIXA POSTAL 21462
CEP 04698-970
SAO PAULO, SP, BRAZIL
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FAX : +55 11 534. 8988

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MARANTZ PROFESSIONAL PRODUCTS
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FAX : 630 - 820 - 8103

CANADA

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633 GRANITE COURT,
PICKERING, ONTARIO L1W 3K1
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FAX : +61 - 3 - 9543 - 3677

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WANGBURAPAPIROM, PHRANAKORN,
BANGKOK, 10200 THAILAND
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SINGAPORE

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WO KEE HONG CENTRE
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TAIWAN

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6 TH FL NO, 148 SUNG KIANG ROAD,
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MALAYSIA

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本社 〒228-8505
神奈川県相模原市相模大野7-35-1
営業本部 〒150-0022
東京都渋谷区恵比寿南1-11-9

KOREA

MK ENTERPRISES LTD.
ROOM 604/605, ELECTRO-OFFICETEL, 16-58,
3GA, HANGANG-RO, YONGSAN-KU, SEOUL
KOREA
PHONE : +822 - 3232 - 155
FAX : +822 - 3232 - 154

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 1492.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

1. SPECIFICATIONS

Power output (class AB operation)

RMS 8ohms (20 Hz - 20 kHz)	95W
DIN 8 ohms	105W
THD at 8 ohms RMS rated output	0.03%
Damping factor	150

Power out put (PM8000 classA operation)

RMS 8 ohms (20 Hz - 20 kHz)	25 W
DIN 8 ohms	28 W
THD at 8 ohms RMS. rated output	0.03%
Damping factor	130

IHF dynamic power (class AB operation)

8 ohms	120 W
--------------	-------

IHF dynamic power (PM8000 class A operation)

8 ohms	35 W
--------------	------

Magnetic cartridge input (MM)

input sensitivity impedance	2.5 mV/47 kOhms
Accuracy of frequency response to IEC RIAA	0.5 dB
Signal to noise ratio	85 dB

Tuner/CD/Aux/Tape inputs

input sensitivity impedance	150 mV/40 kOhms
Signal to noise ratio	109dB
Frequency response	
(-1 dB limits, Source Direct)	10 Hz - 50 kHz
Tone characteristic (100 Hz and 10 kHz)	±8 dB
Channel separation	
(1 kHz/10 kHz, Source direct)	>80 / >70 dB

General

Power Requirements

/N versions	230 V AC, 50 Hz
/U versions	120 V AC, 60 Hz

Dimensions

Width	440 mm
Height	159 mm
Depth	370.5 mm

Weight

Unit alone	12.3 kg
------------------	---------

Specifications subject to change without prior notice

定格出力(20 Hz - 20 kHz 両チャンネル同時駆動)

クラスAB.....95 W × 2 (8 Ω 負荷)

クラスA.....25 W × 2 (8 Ω 負荷)

全高周波歪率(20 Hz - 20 kHz, 10 W出力時8 Ω負荷)

クラスAB.....0.015%

クラスA.....0.010%

混変調歪率 (SMPTE).....0.015%

出力帯域幅 (8Ω負荷,0.08%歪率).....10 Hz - 80 kHz

周波数特性

(CD,ソースダイレクト).....10 Hz - 50 kHz +0 dB -1 dB

ダンピングファクター (8 Ω負荷,100 Hz - 10 kHz)130

入力感度／入力インピーダンス

PHONO (MM).....2.5 mV/47 kΩ

HIGH LEVEL

PHONO最大許容入力 (1 kHz)

(MM)

RIAA偏差 (20 Hz).....-2 dB

(40 Hz - 20 kHz).....±0.5 dB

S/N比 (IHF,Aネットワーク,入力ショート)

PHONO (MM).....85 dB

HIGH LEVEL

トーンコントロール

BASS (100 Hz).....±8 dB

TREBLE (10 kHz).....±8 dB

電源電圧

消費電力 (電気用品取締法).....160 W

最大外形寸法

幅

高さ

奥行き

質量

付属品

リモートコントロール送信機(RC8000PM).....1台

本機の規格および外観は改良のため予告なく変更することがあります。

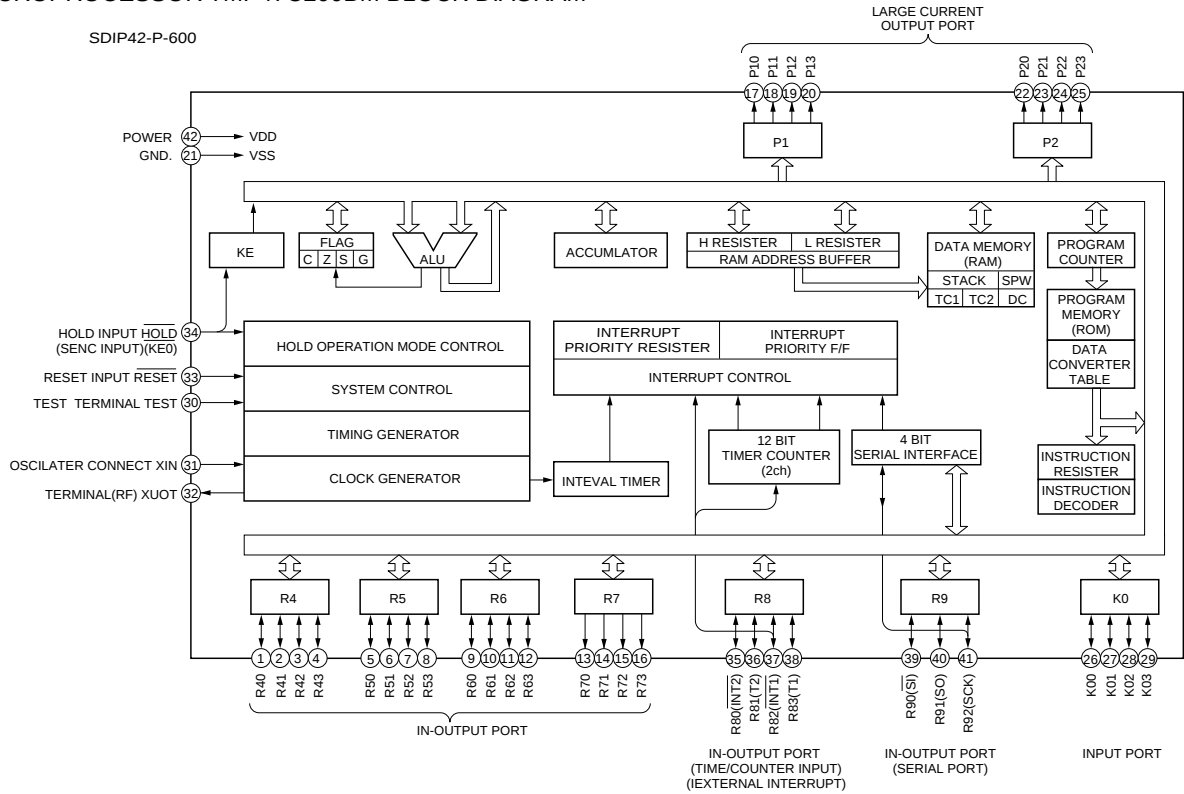
2.TEST EQUIPMENT REQUIRED FOR SERVICING

Item	Use
Distortion Analyzer	Distortion measurements
Audio Oscillator	Sinewave and squarewave signal source
AC VTVM	Voltage measurements (AC)
Oscilloscope	Waveform analysis and trouble shooting and ASO alignment
DC VTVM	Voltage measurements (DC)
AC Wattmeter	Monitors primary power to amplifier
Line Voltmeter	Monitors of primary voltage to amplifier
Variable Autotransformer	Adjust level of primary voltage to amplifier
Circuit Tester	Trouble shooting
Shorting Plug	Shorts amplifier input to eliminate noise pickup

項 目	使 用 方 法
歪 率 計	歪の測定
低 周 波 発 振 器	正弦波および矩形波の信号源
A C V T V M	交流電圧の測定
オ シ ロ ス コ ー プ	波計分析、トラブルシューティングおよびASOの調整
D C V T V M	直流電圧の測定
交流ワットメーター	アンプの一次側消費電力のモニター
電 源 電 圧 計	アンプの一次側電圧のモニター
ス ラ イ ダ ッ ク	アンプの一次側電圧の調整
テ ス タ ー	トラブルシューティング
ショート用プラグ	雑音を拾わないようにアンプ入力を短絡する

3. IC INFORMATION

MICROPROCESSOR TMP47C200BM BLOCK DIAGRAM

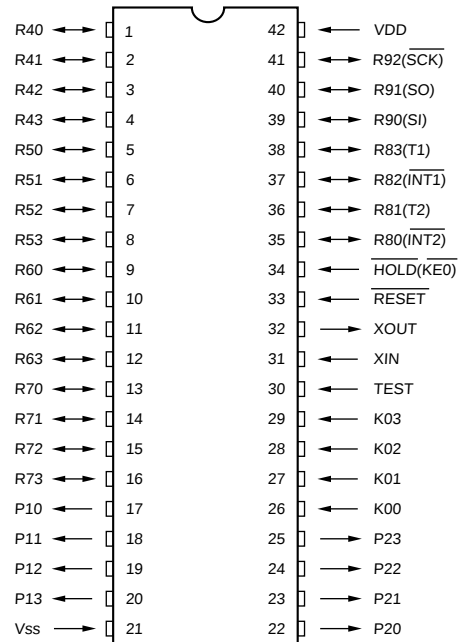


PIN no.	PORT NAME	ACT	FUNCTION
1	R40	MMUT	H MANUAL MUTE SIGNAL MUTE
2	R41	FMUT	L SIGNAL(SOURCE/MONITOR SWITCH)
3	R42	VOUP	L MOTOR DRIVE VOLUME UP
4	R43	VODW	L MOTOR DRIVE VOLUME DOWN
5	R50	T3K	L MONITOR INPUT SWITCH (TAPE3)
6	R51	T2K	L MONITOR INPUT SWITCH (TAPE2)
7	R52	T1K	L MONITOR INPUT SWITCH (TAPE1)
8	R53	AX2K	L SOURCE INPUT SWITCH (AUX2)
9	R60	AX1K	L SOURCE INPUT SWITCH (AUX1)
10	R61	TUNK	L SOURCE INPUT SWITCH (TUNER)
11	R62	CDK	L SOURCE INPUT SWITCH (CD)
12	R63	PHOK	L SOURCE INPUT SWITCH (PHONO)
13	R70	LSTB	L LED INDICATOR STAND BY DISPLAY
14	R71	LMUT	L LED INDICATOR MUTE DISPLAY
15	R72	LPRO	L LED INDICATOR PROCESSOR DISPLAY
16	R73	LTP3	L LED INDICATOR TAPE3 DISPLAY
17	P10	LTP2	L LED INDICATOR TAPE2 DISPLAY
18	P11	LTP1	L LED INDICATOR TAPE1 DISPLAY
19	P12	LSOU	L LED INDICATOR SOURCE DISPLAY
20	P13	LAX2	L LED INDICATOR AUX2 DISPLAY
21	VSS		GND.
22	P20	LAX1	L LED INDICATOR AUX1 DISPLAY
23	P21	LTUN	L LED INDICATOR TUNER DISPLAY
24	P22	LECD	L LED INDICATOR CD DISPLAY
25	P23	LPHO	L LED INDICATOR PHONO DISPLAY
26	K00	1RS	L SOURCE INPUT SWITCH(ROTARY ENCODER) bit1
27	K01	2RS	L SOURCE INPUT SWITCH(ROTARY ENCODER) bit2
28	K02	PRK	L PROCESSOR IN-OUT SWITCH
29	K03	MUK	L MANUAL MUTE
30	TEST		NOT USED (GND)
31	XIN		CLOCK 4.00 MHz (IN)
32	XOUT		CLOCK 4.00 MHz (OUT)
33	RESET	RES	L SYSTEM RESET
34	HOLD	PDW	L POWER DOWN CHECK
35	R80	RXRC	L REMOTE CONTROL INPUT (RC-5)
36	R81	EN1	MODEL SELECT 1
37	R82	EN2	MODEL SELECT 2
38	R83	EN3	MODEL SELECT 3
39	R90	TXRC	L SERIAL DATA(RC-5 REMOTE CONTROL)
40	R91	ENTX	L ENABLE (REMOTE CONTROL)
41	R92	RELY	L STAND-BY RELAY CONTROL
42	VDD		POWER SUPPLY

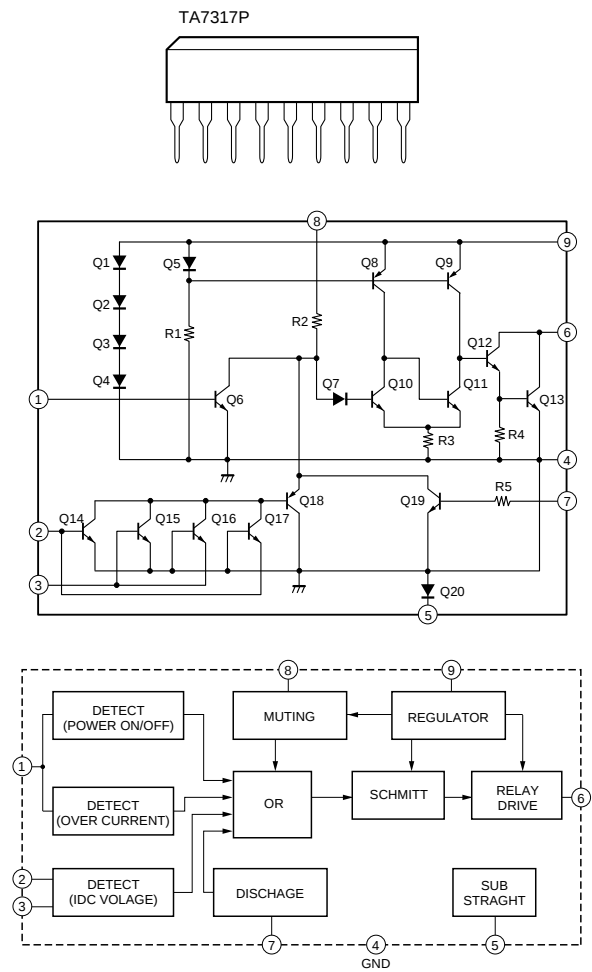
MICROPROCESSOR TMP47C200BM

Position NO.7401

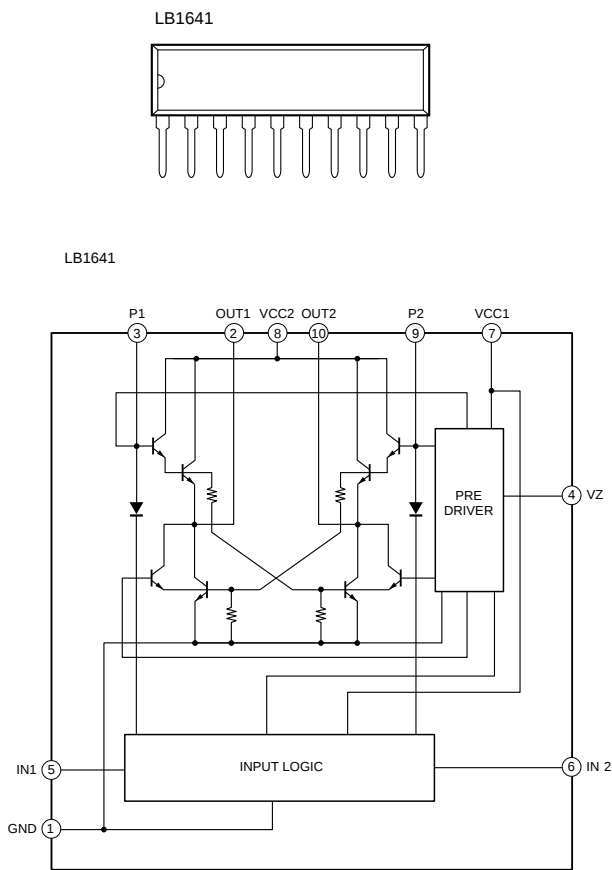
SDIP42-P-600



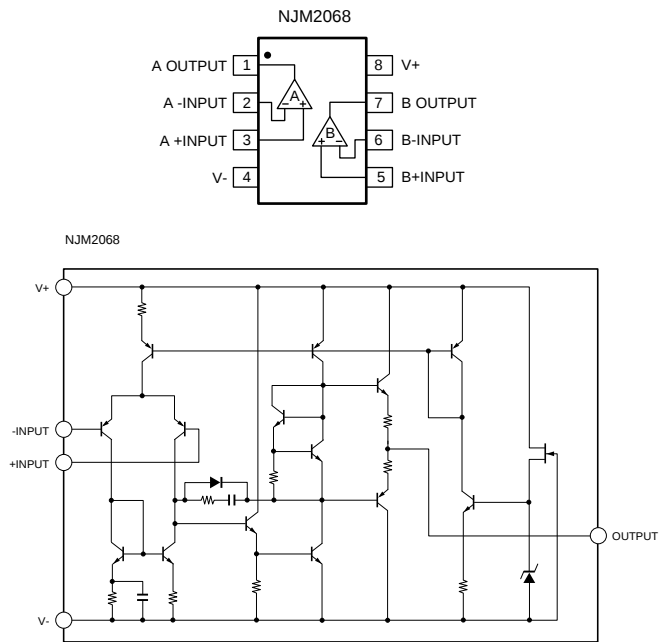
TA7317P (Position NO.7290)



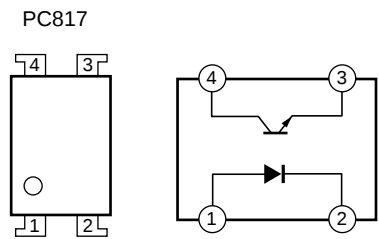
LB1641(Position NO.7402)



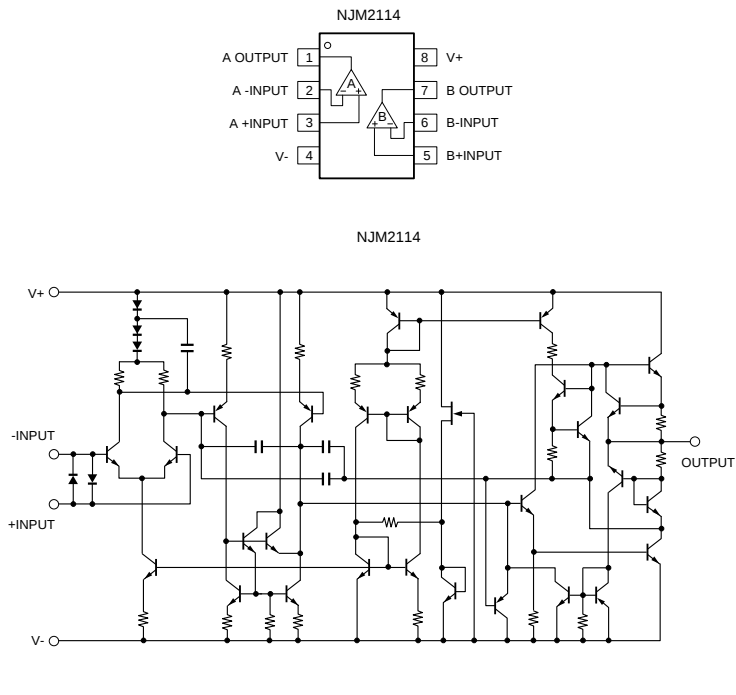
NJM2068 (Position NO.7501,7502,7503)



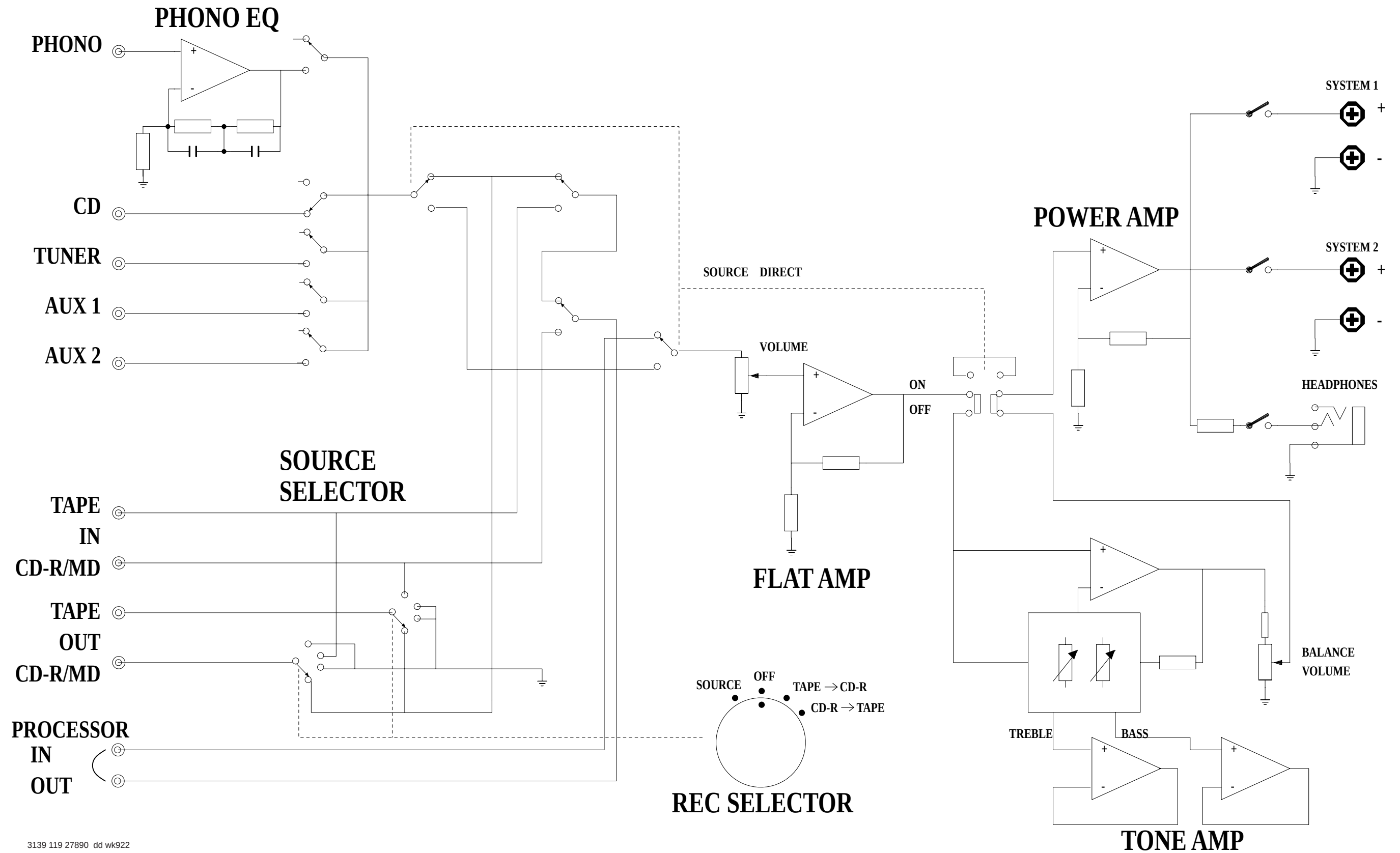
PC817 (Position NO.7269,7270)



NJM2114(Position NO.7555,7655)

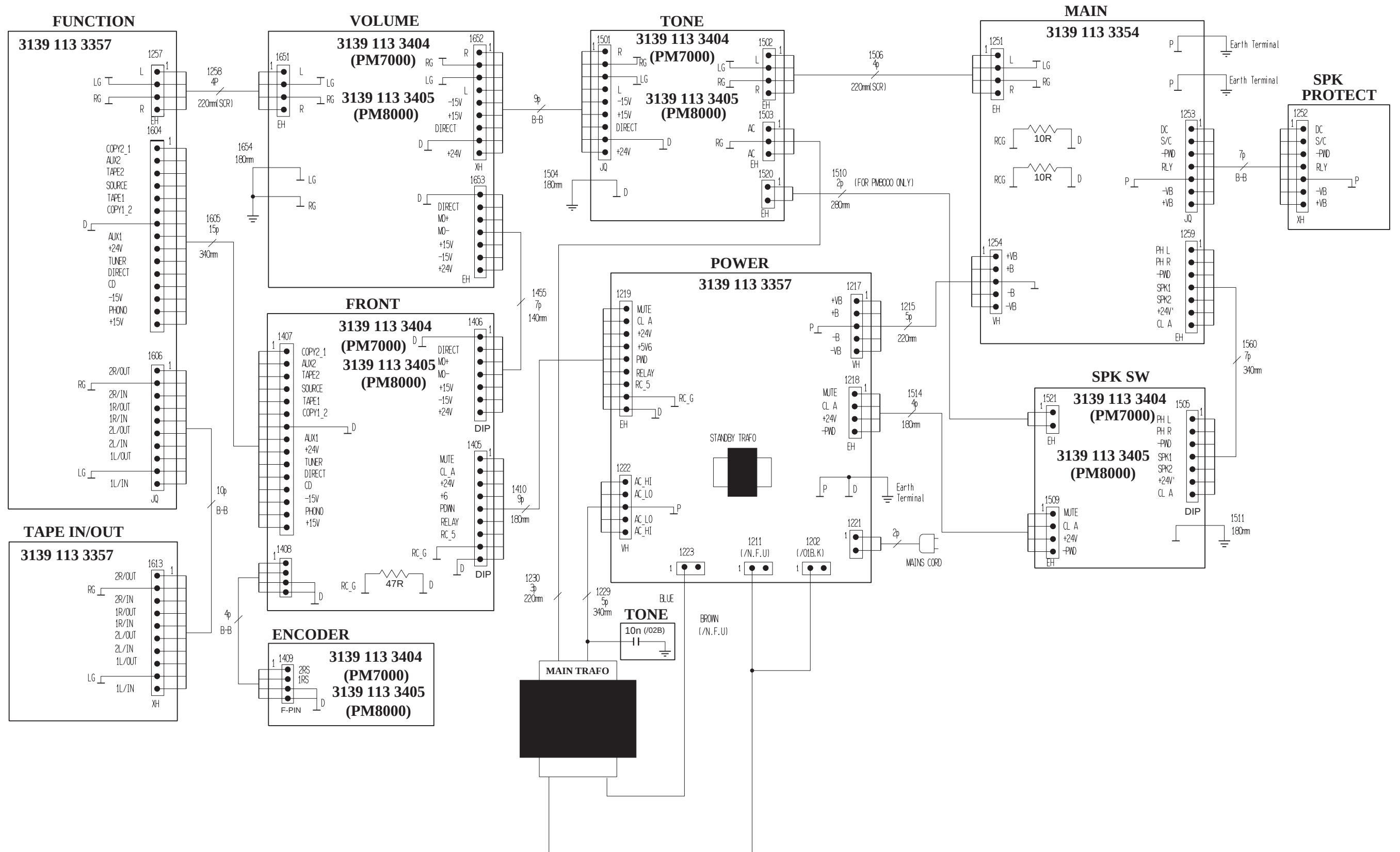


4. BLOCK DIAGRAM

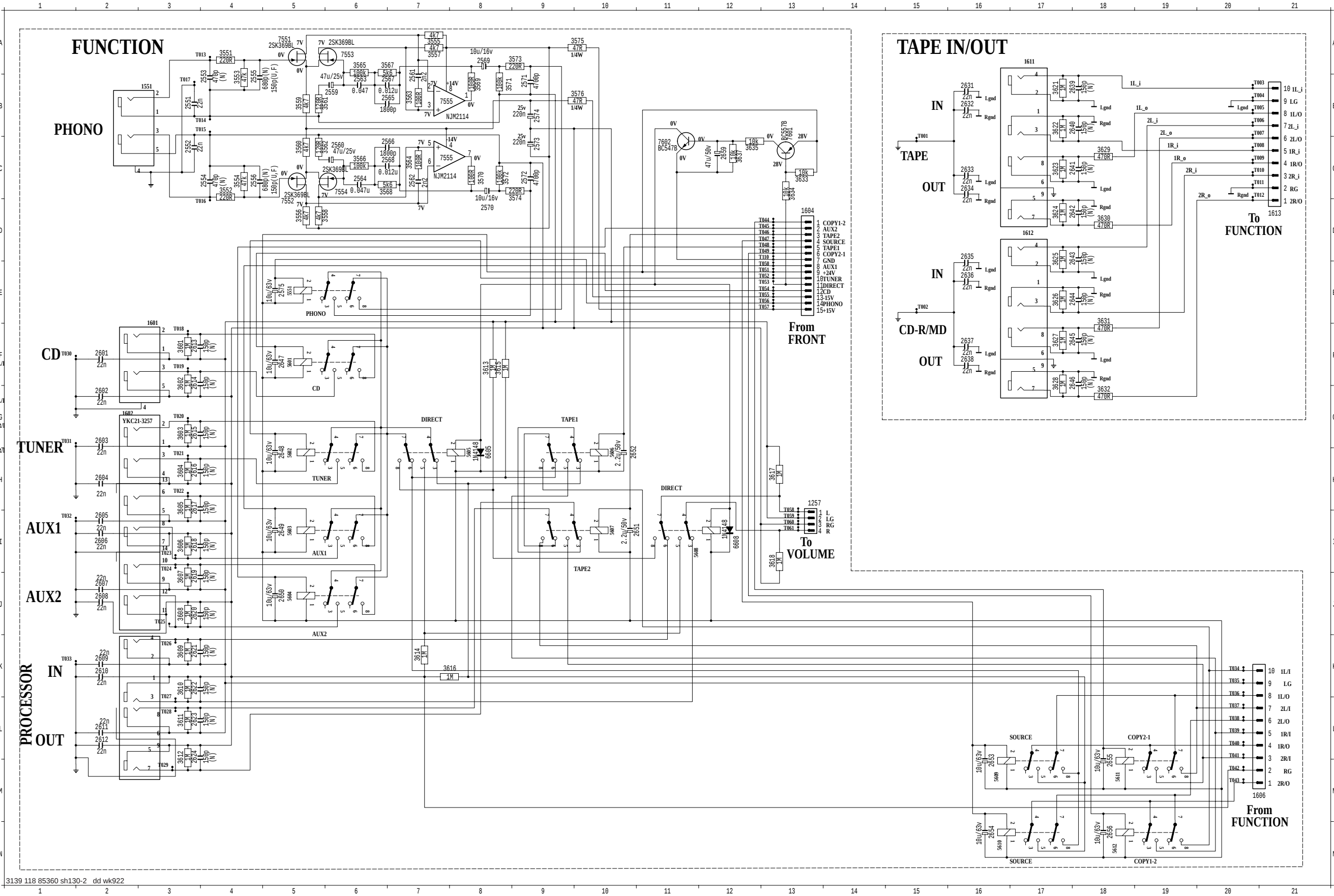


3139 119 27890 dd wk922

5. WIRING DIAGRAM



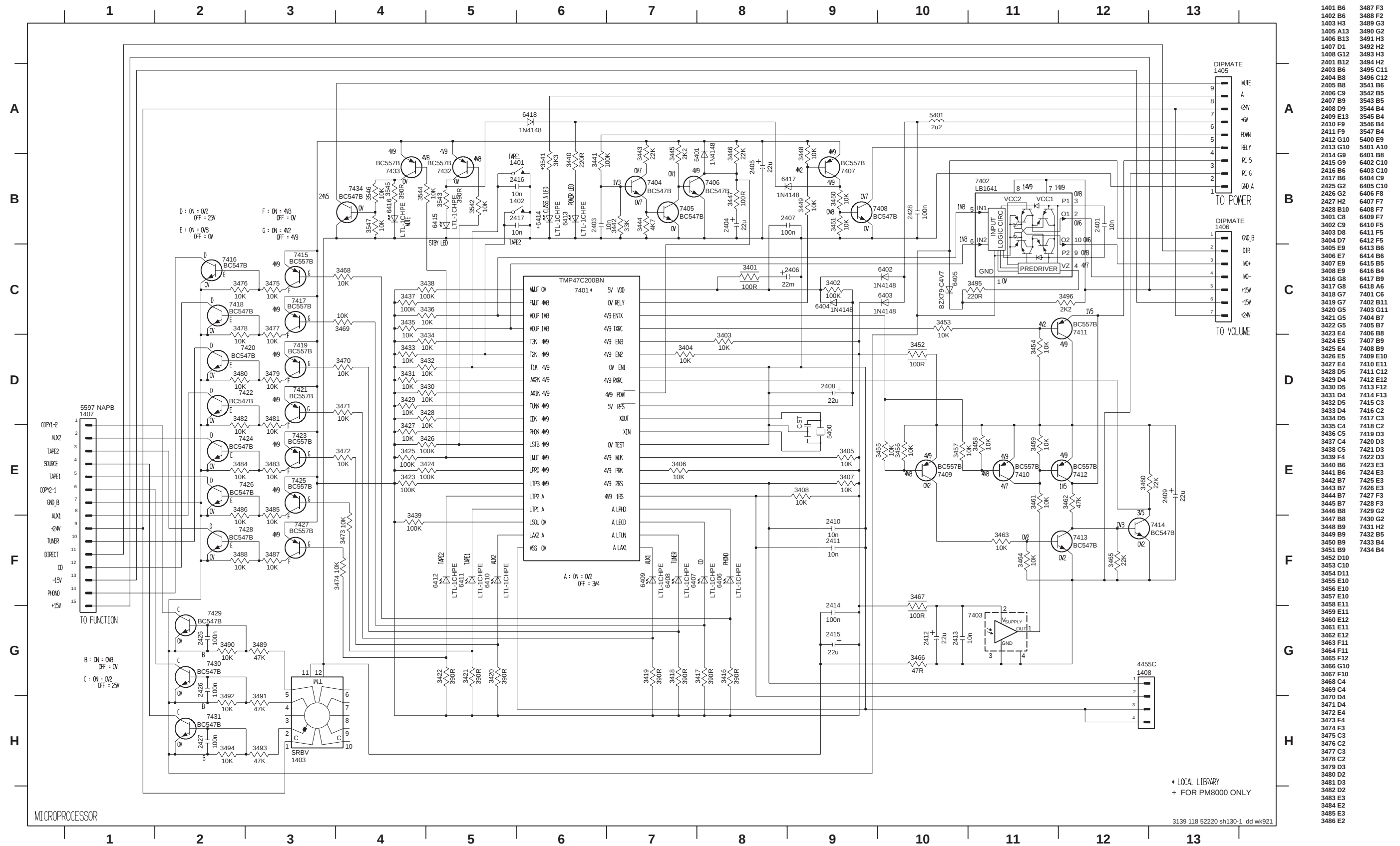
6. SCHEMATIC DIAGRAM AND PARTS LOCATION (PARTS SIDE)
FUNCTION & TAPE IN/OUT CIRCUIT



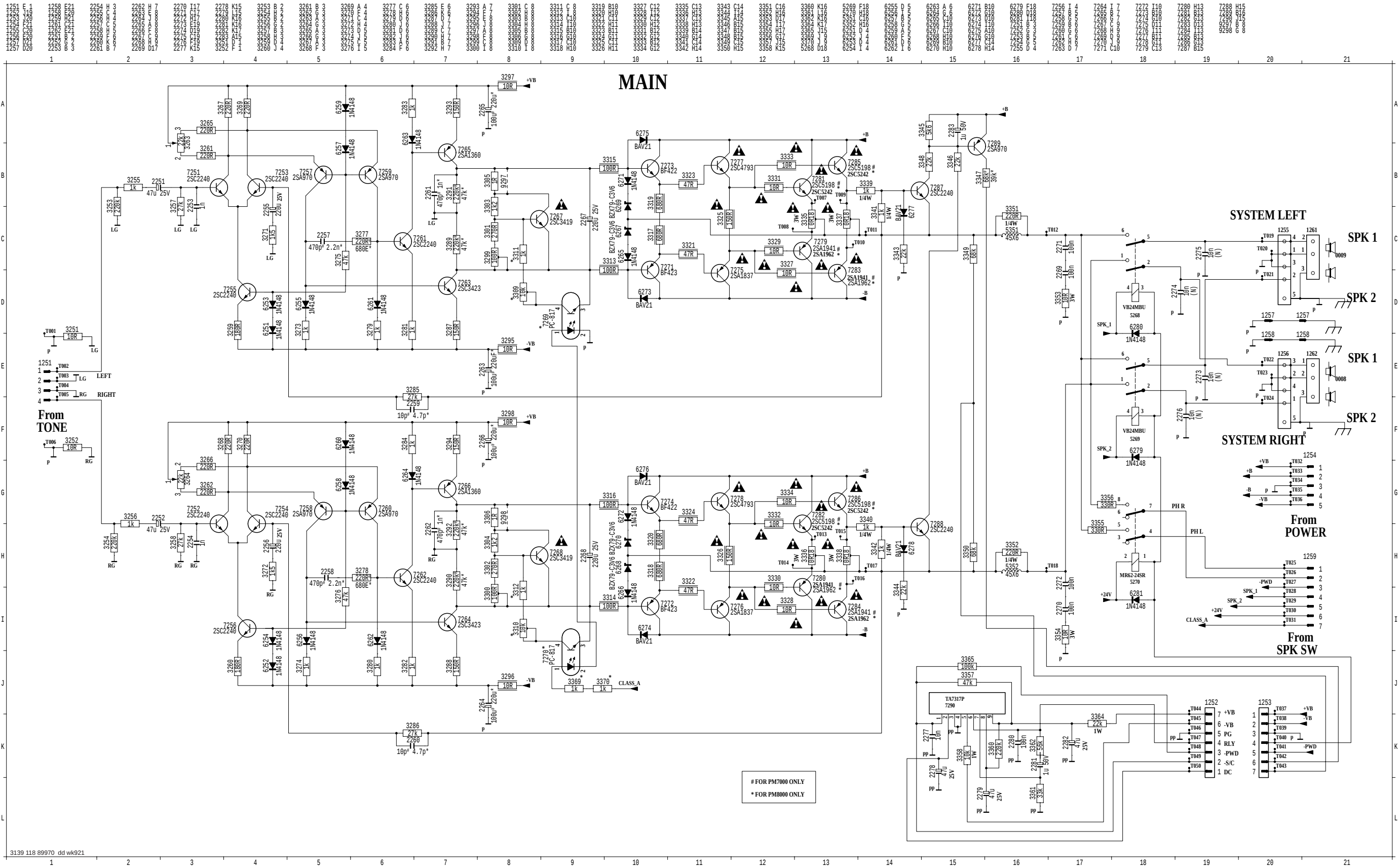
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1505	H13	5932	T
1506	H13	5933	T
1507	H13	5934	T
1508	H13	5935	T
1509	H13	5936	T
1510	H13	5937	T
1511	H13	5938	T
1512	H13	5939	T
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1515	H13	5942	T
1516	H13	5943	T
1517	H13	5944	T
1518	H13	5945	T
1519	H13	5946	T
1520	H13	5947	T
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1522	H13	5949	T
1523	H13	5950	T
1524	H13	5951	T
1525	H13	5952	T
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1528	H13	5955	T
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1534	H13	5961	T
1535	H13	5962	T
1536	H13	5963	T
1537	H13	5964	T
1538	H13	5965	T
1539	H13	5966	T
1540	H13	5967	T
1541	H13	5968	T
1542	H13	5969	T
1543	H13	5970	T
1544	H13	5971	T
1545	H13	5972	T
1546	H13	5973	T
1547	H13	5974	T
1548	H13	5975	T
1549	H13	5976	T
1550	H13	5977	T
1551	H13	5978	T
1552	H13	5979	T
1553	H13	5980	T
1554	H13	5981	T
1555	H13	5982	T
1556	H13	5983	T
1557	H13	5984	T
1558	H13	5985	T
1559	H13	5986	T
1560	H13	5987	T
1561	H13	5988	T
1562	H13	5989	T
1563	H13	5990	T
1564	H13	5991	T
1565	H13	5992	T
1566	H13	5993	T
1567	H13	5994	T
1568	H13	5995	T
1569	H13	5996	T
1570	H13	5997	T
1571	H13	5998	T
1572	H13	5999	T
1573	H13	6000	T
1574	H13	6001	T
1575	H13	6002	T
1576	H13	6003	T
1577	H13	6004	T
1578	H13	6005	T
1579	H13	6006	T
1580	H13	6007	T
1581	H13	6008	T
1582	H13	6009	T
1583	H13	6010	T
1584	H13	6011	T
1585	H13	6012	T
1586	H13	6013	T
1587	H13	6014	T
1588	H13	6015	T
1589	H13	6016	T
1590	H13		

3139 118 85360 sh130-1 dd wk922

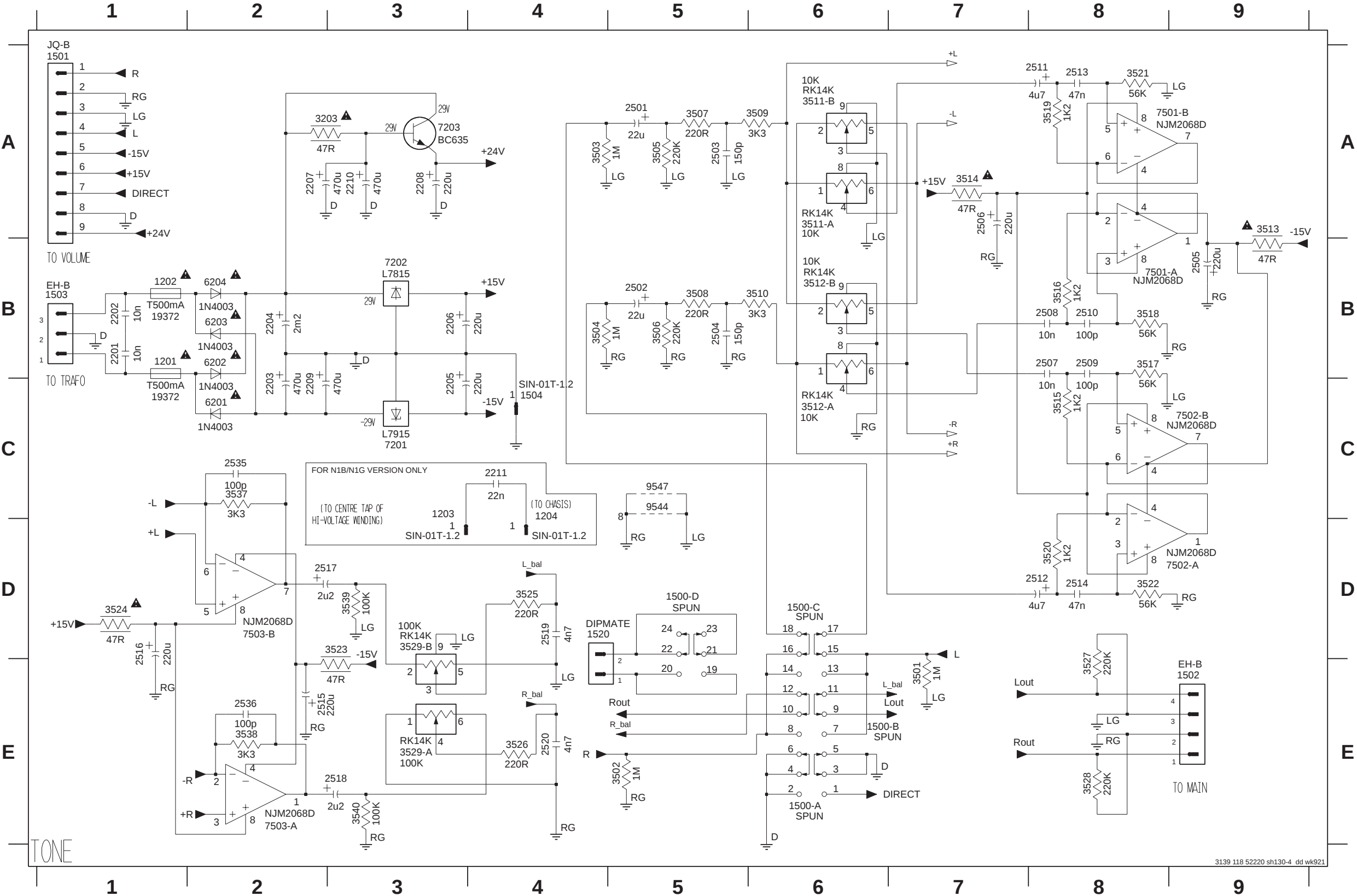
FRONT CIRCUIT



MAIN CIRCUIT

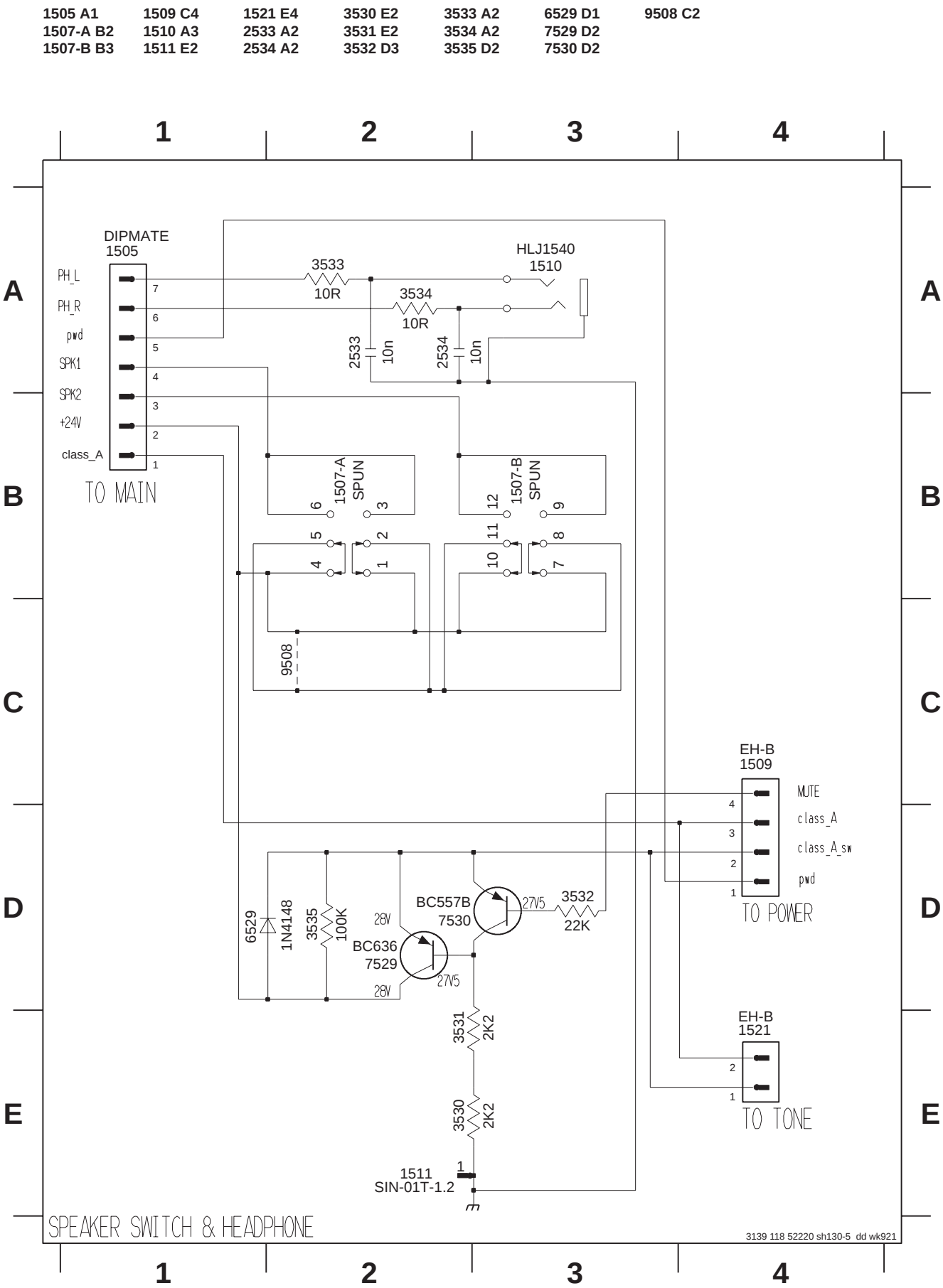


TONE CIRCUIT

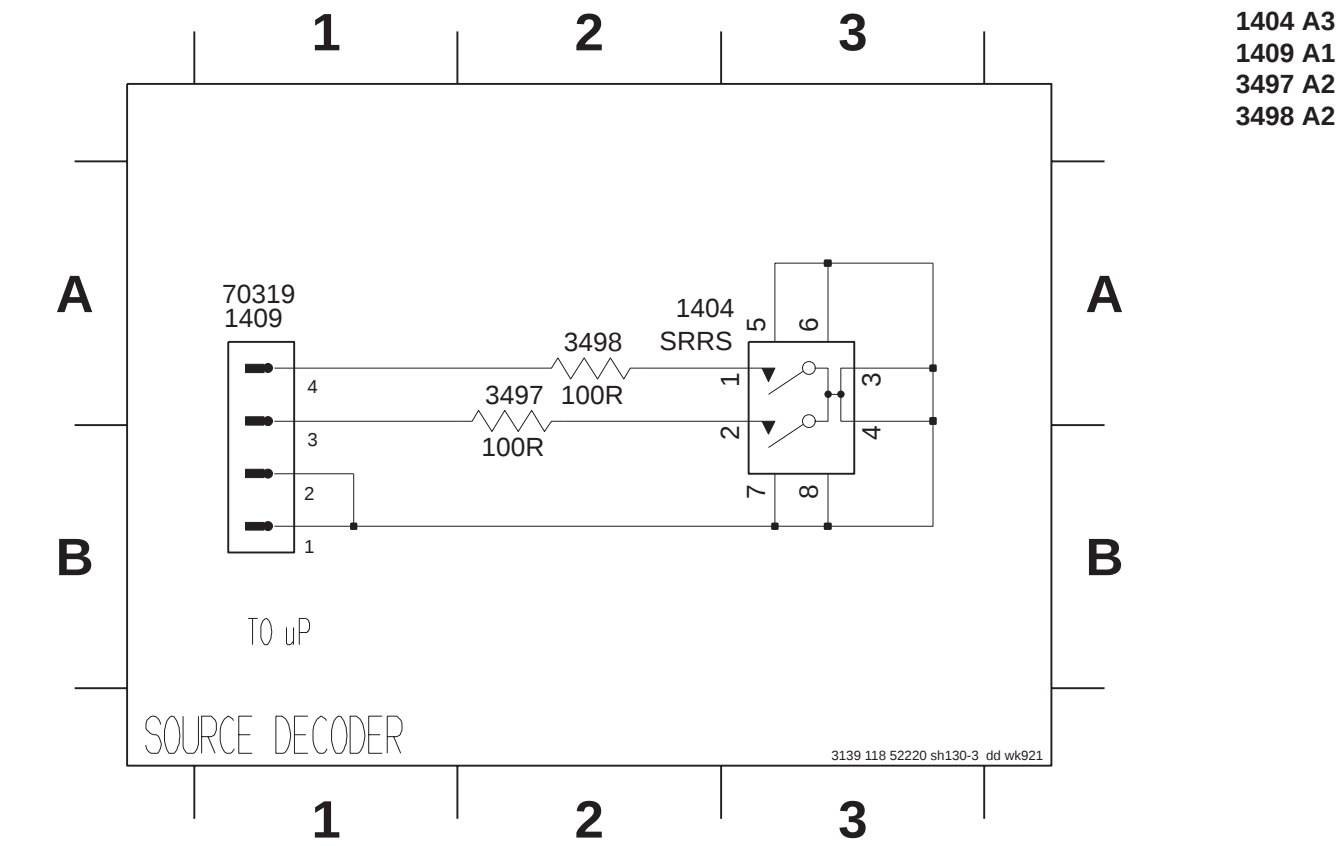


1201 B1	3524 D1
1202 B1	3525 D4
1203 C3	3526 E4
1204 C4	3527 E8
1500-A E6	3528 E8
1500-B E7	3529-A E3
1500-C D6	3529-B D3
1500-D D5	3537 C2
1501 A1	3538 E2
1502 E9	3539 D3
1503 B1	3540 E3
1504 C4	6201 C2
1520 D5	6202 B2
2201 B1	6203 B2
2202 B1	6204 B2
2203 C2	7201 C3
2204 B2	7202 B3
2205 C3	7203 A3
2206 B3	7501-A B8
2207 A2	7501-B A8
2208 A3	7502-A D8
2209 C2	7502-B C9
2210 A3	7503-A E2
2211 C4	7503-B D2
2501 A5	9544 C5
2502 B5	9547 C5
2503 A5	
2504 B5	
2505 B9	
2506 A7	
2507 B8	
2508 B8	
2509 B8	
2510 B8	
2511 A8	
2512 D8	
2513 A8	
2514 D8	
2515 E2	
2516 D1	
2517 D2	
2518 E3	
2519 D4	
2520 E4	
2535 C2	
2536 E2	
3203 A2	
3501 E7	
3502 E5	
3503 A4	
3504 B4	
3505 A5	
3506 B5	
3507 A5	
3508 B5	
3509 A6	
3510 B6	
3511-A A6	
3511-B A6	
3512-A C6	
3512-B B6	
3513 A9	
3514 A7	
3515 C8	
3516 B8	
3517 B8	
3518 B8	
3519 A8	
3520 D8	
3521 A8	
3522 D8	
3523 D3	

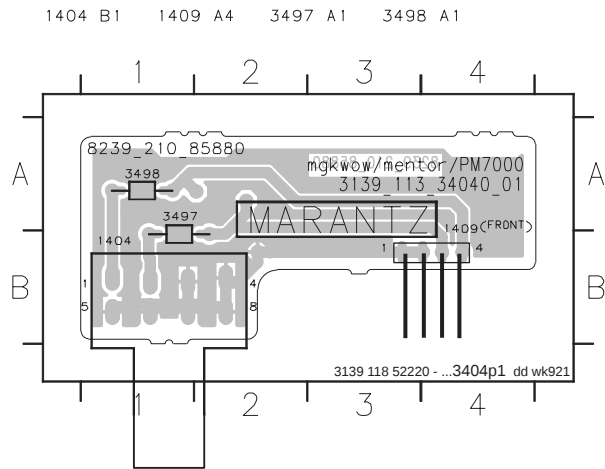
SPK SW CIRCUIT



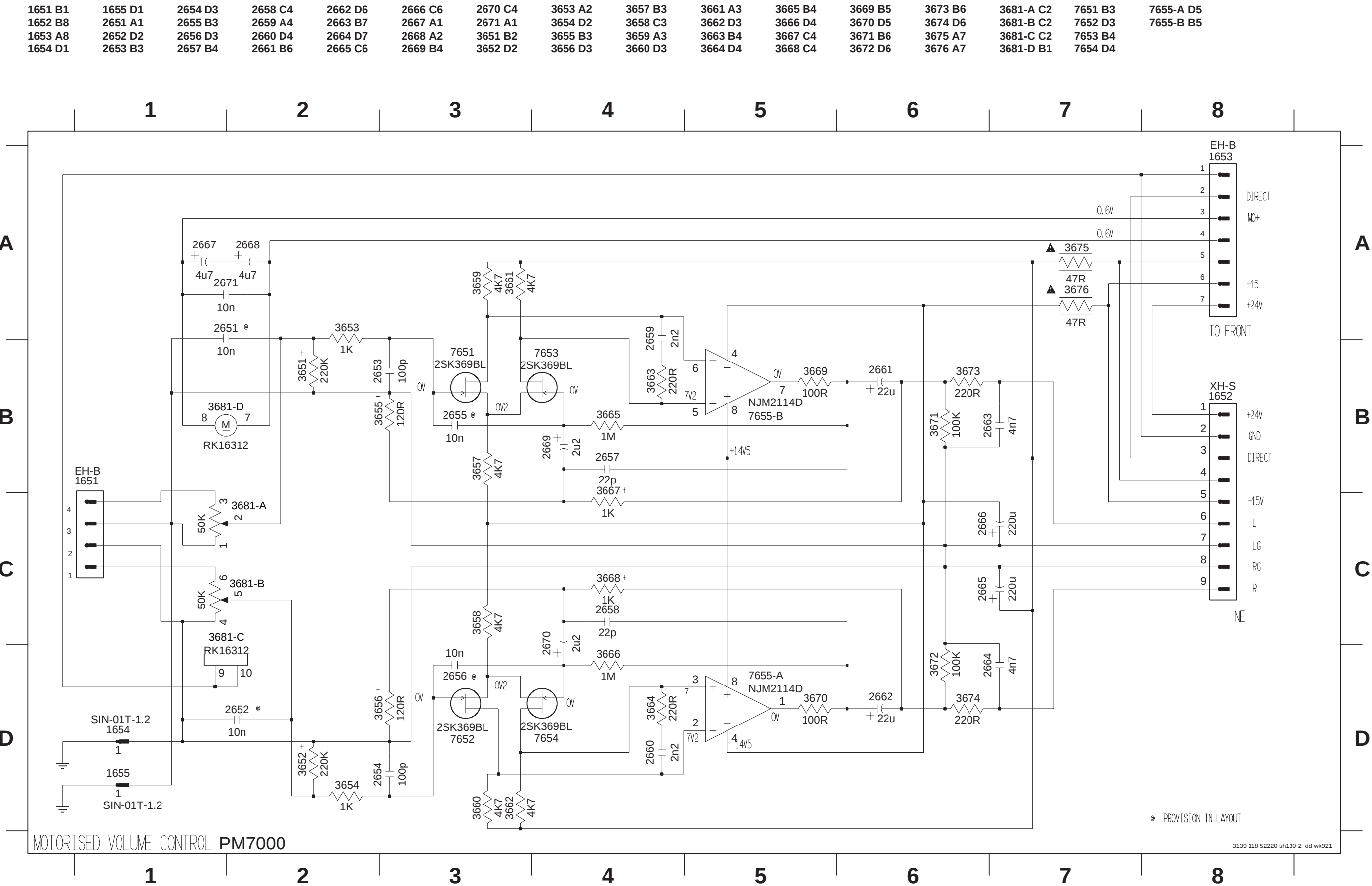
ENCODER CIRCUIT



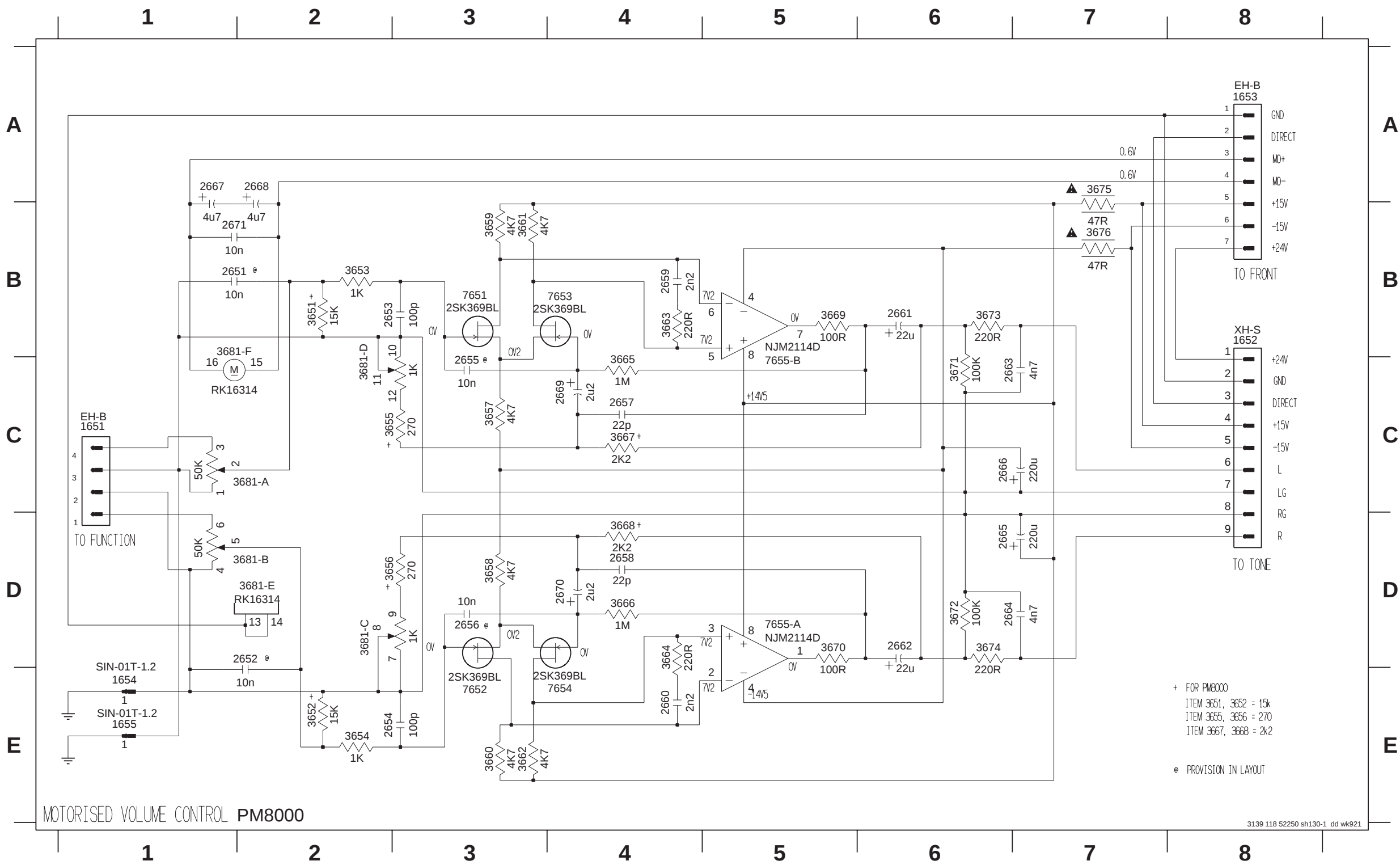
ENCODER BOARD



VOLUME CONTROL CIRCUIT (PM7000)



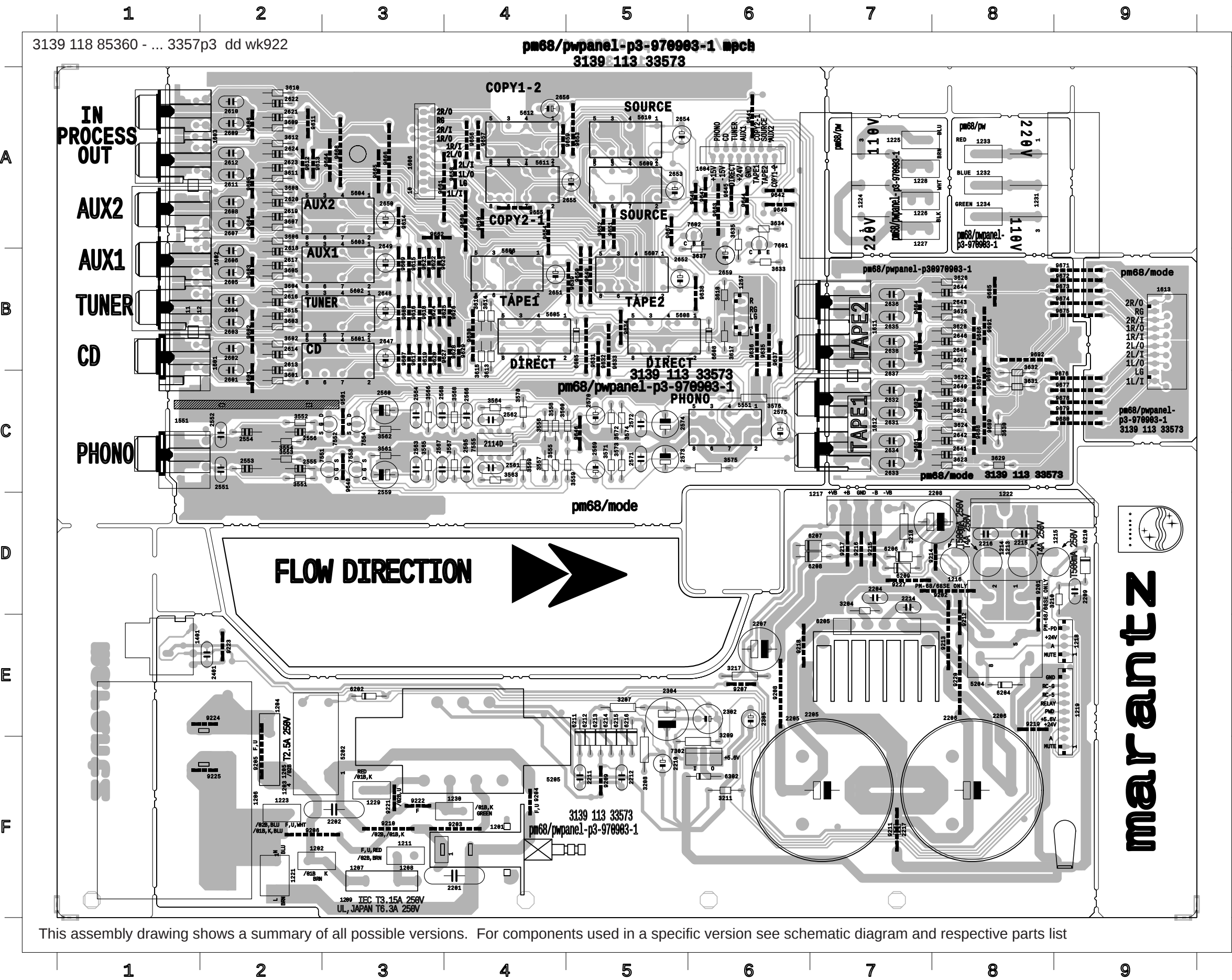
VOLUME CONTROL CIRCUIT (PM8000)



1651 C1	7655-A D5
1652 B8	7655-B B5
1653 A8	T117 C1
1654 E1	T118 C1
1655 E1	T119 C1
2651 B1	T120 C1
2652 D2	T121 A8
2653 B2	T122 A8
2654 E2	T123 A8
2655 C3	T124 A8
2656 D3	T125 A8
2657 C4	T126 B8
2658 D4	T127 B8
2659 B4	T128 B8
2660 E4	T129 C8
2661 B6	T130 C8
2662 D6	T131 C8
2663 C6	T132 C8
2664 D6	T133 C8
2665 D6	T134 C8
2666 C6	T135 C8
2667 A1	T136 D8
2668 A2	
2669 C4	
2670 D4	
2671 B1	
3651 B2	
3652 E2	
3653 B2	
3654 E2	
3655 C3	
3656 D3	
3657 C3	
3658 D3	
3659 B3	
3660 E3	
3661 B3	
3662 E3	
3663 B4	
3664 D4	
3665 C4	
3666 D4	
3667 C4	
3668 D4	
3669 B5	
3670 D5	
3671 C6	
3672 D6	
3673 B6	
3674 D6	
3675 A7	
3676 B7	
3681-A C1	
3681-B D1	
3681-C D2	
3681-D C2	
3681-E D2	
3681-F B1	
7651 B3	
7652 E3	
7653 B4	
7654 E4	

+ FOR PM8000
ITEM 3651, 3652 = 15k
ITEM 3655, 3656 = 270
ITEM 3667, 3668 = 2k2
* PROVISION IN LAYOUT

FUNCTION & TAPE IN / OUT & POWER BOARD



1257 B 6	3562 C 3	9624 B 3	1232 A 8
1551 C 1	3563 C 4	9625 B 3	1233 A 8
1601 B 1	3564 C 4	9626 B 4	1234 A 8
1602 B 1	3565 C 3	9627 B 3	1401 E 1
1603 A 1	3566 C 3	9628 B 4	2201 F 4
1604 A 6	3567 C 4	9629 B 4	2202 F 3
1606 A 3	3568 C 4	9630 B 4	2204 D 7
1611 B 7	3569 C 4	9631 B 5	2205 F 7
1612 C 7	3570 C 4	9632 B 5	2206 F 8
1613 B 9	3571 C 5	9633 B 5	2207 E 6
2551 C 2	3572 C 5	9634 B 5	2208 D 8
2552 C 2	3573 C 5	9635 B 6	2209 D 9
2553 C 2	3574 C 5	9636 B 6	2210 F 5
2554 C 2	3575 C 6	9637 B 6	2211 F 5
2555 C 2	3576 C 6	9638 B 6	2212 F 5
2556 C 2	3601 C 2	9639 B 5	2214 D 7
2559 C 3	3602 B 2	9640 C 3	2215 D 8
2560 C 3	3603 B 2	9641 A 6	2216 D 8
2561 C 4	3604 B 2	9642 A 6	2217 F 7
2562 C 4	3605 B 2	9643 A 6	2302 E 6
2563 C 3	3606 A 2	9644 A 6	2304 E 5
2564 C 3	3607 A 2	9645 A 6	2305 E 6
2565 C 4	3608 A 2	9646 C 5	2401 E 2
2566 C 4	3609 A 2	9647 A 6	3204 D 7
2567 C 3	3610 A 2	9648 A 6	3207 E 5
2568 C 3	3611 A 2	9649 B 5	3208 F 5
2569 C 5	3612 A 2	9650 B 5	3209 F 6
2570 C 5	3613 B 4	9651 A 5	3210 D 9
2571 C 5	3614 B 4	9652 A 5	3211 F 6
2572 C 5	3615 B 4	9653 A 5	3217 E 6
2573 C 5	3616 B 4	9654 A 4	3218 D 7
2574 C 5	3617 B 6	9655 A 4	5202 F 2
2575 C 6	3618 B 6	9656 A 4	5204 E 8
2601 C 2	3621 C 8	9657 A 4	6202 E 3
2602 B 2	3622 C 8	9658 A 4	6204 E 8
2603 B 2	3623 C 8	9659 A 4	6205 E 7
2604 B 2	3624 C 8	9660 A 4	6206 D 7
2605 B 2	3625 B 8	9661 A 3	6207 D 7
2606 B 2	3626 B 8	9662 A 3	6208 D 7
2607 A 2	3627 B 8	9663 A 6	6209 D 9
2608 A 2	3628 B 8	9664 A 3	6210 D 9
2609 A 2	3629 C 8	9665 A 3	6211 F 5
2610 A 2	3630 C 8	9666 A 3	6212 F 5
2611 A 2	3631 C 8	9667 A 5	6213 F 5
2612 A 2	3632 C 8	9668 A 3	6214 F 5
2613 C 2	3633 B 6	9671 B 9	6215 F 5
2614 B 2	3634 A 6	9672 B 9	6216 F 5
2615 B 2	3635 A 6	9673 B 9	6302 F 6
2616 B 2	3637 B 6	9674 B 9	7302 F 6
2617 B 2	5551 C 6	9675 B 9	9201 E 8
2618 B 2	5601 B 3	9676 C 9	9202 D 8
2619 A 2	5602 B 3	9677 C 9	9203 F 4
2620 A 2	5603 B 3	9678 C 9	9204 F 4
2621 A 2	5604 A 3	9679 C 9	9205 F 2
2622 A 2	5605 B 4	9680 C 9	9206 F 2
2623 A 2	5606 B 4	9681 C 7	9207 E 6
2624 A 2	5607 B 5	9682 C 7	9208 E 6
2631 C 7	5608 B 5	9683 B 7	9209 F 3
2632 C 7	5609 A 5	9684 B 7	9210 F 3
2633 C 7	5610 A 5	9685 B 8	9211 F 7
2634 C 7	5611 A 4	9686 B 8	9212 E 8
2635 B 7	5612 A 4	9687 C 8	9213 E 8
2636 B 7	6605 B 5	9688 C 8	9214 D 8
2637 B 7	6608 B 6	9689 C 8	9215 D 7
2638 B 7	7551 C 3	9690 C 8	9216 D 7
2639 C 8	7552 C 3	9691 B 8	9217 D 7
2640 C 8	7553 C 3	9692 B 8	9218 E 6
2641 C 8	7554 C 3	----	9219 E 8
2642 C 8	7555 C 4	----	9220 E 8
2643 B 8	7601 A 6	1201 F 3	9221 F 3
2644 B 8	7602 A 6	1202 F 2	9222 F 3
2645 B 8	9501 C 3	1203 F 2	9223 E 2
2646 B 8	9601 C 2	1204 F 2	9224 E 2
2647 B 3	9602 B 2	1206 F 2	9225 F 2
2648 B 3	9603 B 2	1207 F 3	9227 D 7
2649 B 3	9604 A 2	1208 F 3	
2650 A 3	9605 A 2	1211 F 3	
2651 B 4	9606 A 2	1213 D 8	
2652 B 5	9607 B 3	1214 D 8	
2653 A 5	9608 B 3	1215 D 8	
2654 A 5	9609 B 3	1216 D 9	
2655 A 5	9610 A 4	1217 D 7	
2656 A 4	9611 A 2	1218 E 9	
2659 B 6	9612 A 2	1219 E 9	
3551 C 2	9613 A 2	1221 F 2	
3552 C 2	9614 A 3	1222 D 8	
3553 C 2	9615 B 3	1223 F 2	
3554 C 2	9616 B 3	1224 A 7	
3555 C 4	9617 B 3	1225 A 7	
3556 C 4	9618 B 3	1226 A 7	
3557 C 4	9619 B 3	1227 A 7	
3558 C 4	9620 B 3	1228 A 7	
3559 C 5	9621 B 3	1229 F 3	
3560 C 5	9622 B 3	1230 F 4	
3561 C 3	9623 B 3	1231 A 8	

This assembly drawing shows a summary of all possible versions. For components used in a specific version see schematic diagram and respective parts list

1201	A4	2201	A4	2211	A4	210	0 B7	2520	E6	3507	F4	3517	B5	3527	C4	6204	A5	9205	A6	9510	D5	9521	F3	9533	F3	9545	D5	9557	D7
1202	A4	2202	A4	2212	A4	211	1 B6	2521	E6	3508	F4	3518	B5	3528	C4	6205	A5	9206	A6	9511	D5	9522	F3	9534	F3	9546	D5	9558	D7
1203	A4	2203	A5	2213	D5	212	1 C6	2522	E6	3509	F3	3519	B5	3529	C4	6206	A7	9207	A6	9512	D6	9523	F3	9535	F3	9547	D6	9559	D7
1204	A4	2204	A5	2214	D5	213	1 C6	2523	E6	3510	F3	3520	B5	3530	C4	6207	A7	9208	A6	9513	D6	9524	F3	9536	F3	9548	D6	9560	D7
1205	E6	2205	A6	2215	E6	214	1 C4	2524	E6	3511	F3	3521	B5	3531	C4	6208	A7	9209	A6	9514	D6	9525	F3	9537	F3	9549	D6	9561	D7
1206	E6	2206	B7	2216	B7	215	1 C7	2525	E6	3512	F3	3522	B4	3532	C4	6209	A7	9210	A6	9515	D6	9526	F3	9538	F3	9550	D6	9562	D7
1207	C4	2207	C4	2217	C4	216	1 C7	2526	E6	3513	F3	3523	B4	3533	C4	6210	A7	9211	A6	9516	D6	9527	F3	9539	F3	9551	D6	9563	D7
1208	A4	2208	A4	2218	A4	217	1 C6	2527	E6	3514	F3	3524	B5	3534	C4	6211	A7	9212	A6	9517	D6	9528	F3	9540	F3	9552	D6	9564	D7
1209	A4	2209	A4	2219	A4	218	1 C6	2528	E6	3515	F3	3525	B5	3535	C4	6212	A7	9213	A6	9518	D6	9529	F3	9541	F3	9553	D6	9565	D7
1210	A6	2210	B6	2220	C5	219	1 D6	2529	E6	3516	F3	3526	B5	3536	C4	6213	A7	9214	A6	9519	D6	9530	F3	9542	F3	9554	D6	9566	D7

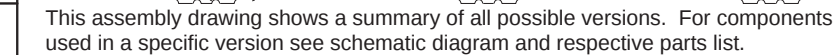


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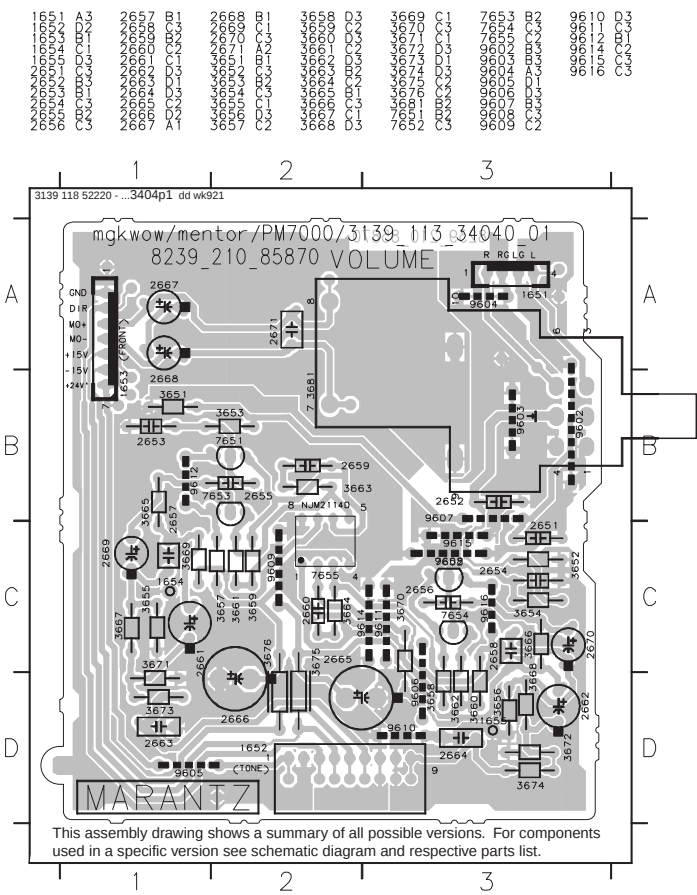


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1202	A4	2201	A4	2211	A4	2510	B7	2520	E6	3507	F4	3517	B5
1203	A4	2202	A5	2212	C6	2511	C6	2521	C6	3508	F5	3518	B6
1204	A4	2203	A5	2213	D5	2512	C6	2522	C6	3509	F6	3519	B6
1205	A4	2204	A5	2214	D5	2513	C6	2523	C6	3510	F7	3520	B6
1206	E6	2205	A6	2215	E5	2514	C4	2524	B6	3511	F2	3521	C6
1207	E6	2206	B7	2216	B7	2515	C4	2525	B6	3512	F3	3522	C6
1208	C7	2207	B7	2217	B7	2516	C6	2526	C6	3513	F4	3523	C6
1209	C7	2208	B7	2218	B7	2517	C6	2527	C6	3514	F5	3524	C6
1210	C7	2209	B7	2219	B7	2518	C6	2528	C6	3515	F6	3525	C6
1211	A6	2210	B6	2220	B6	2519	D6	2529	D6	3516	F7	3526	C6
1212	A6	2210	B6	2220	B6	2519	D6	2529	D6	3516	F7	3526	C6

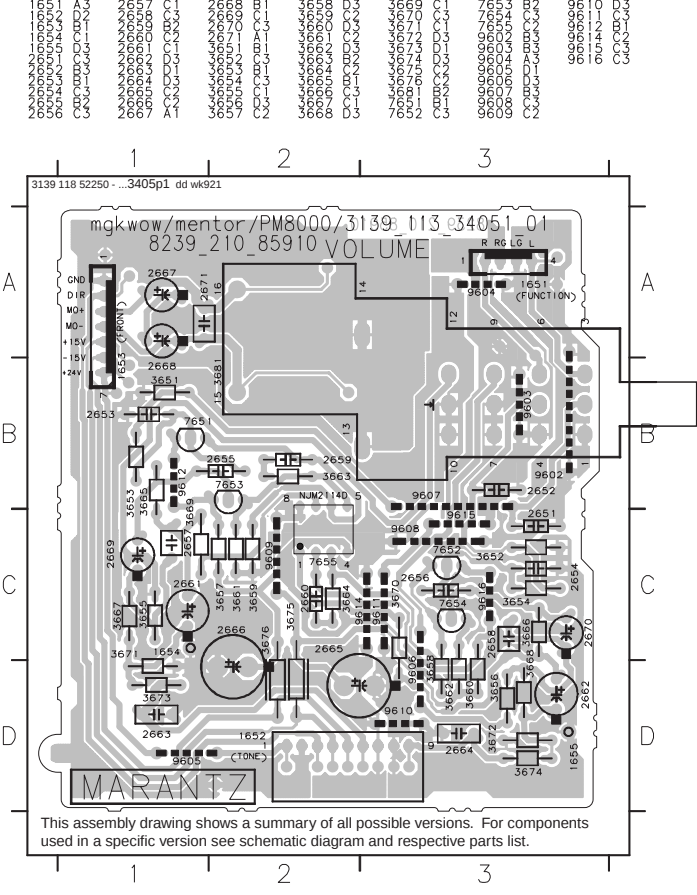
1505 A4	1510 A4	2533 A3	3531 A3	3534 A4	7529 A3	9530 A3	9548 A3
1507 A1	1511 A4	2534 A4	3532 A1	3535 A3	7530 A2	9531 A2	
1509 A2	1521 A3	3530 A3	3533 A3	6529 A2	9508 A1	9536 A1	



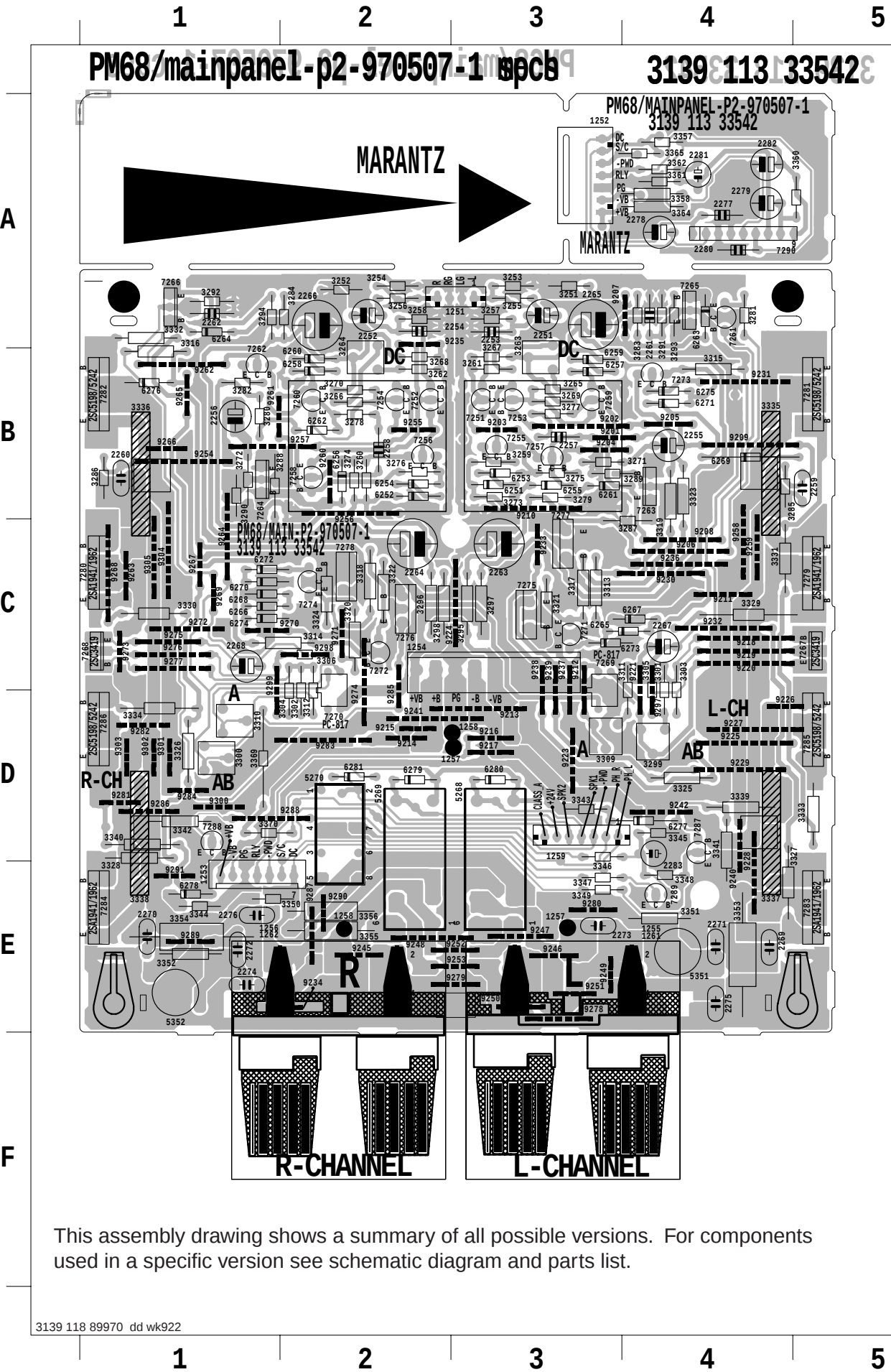
VOLUME BOARD (PM7000)



VOLUME BOARD (PM8000)



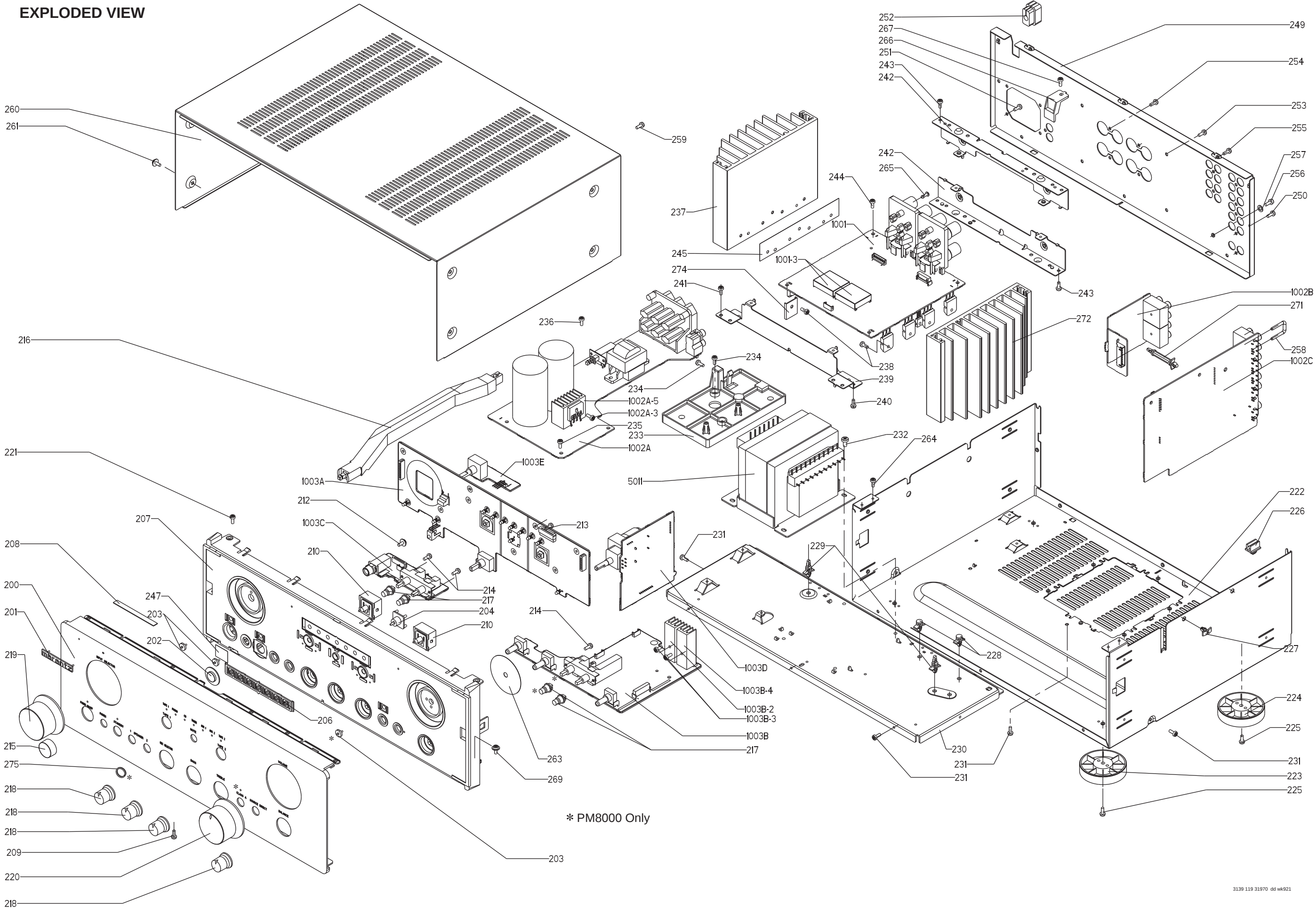
MAIN & SP PROTECT BOARD



This assembly drawing shows a summary of all possible versions. For components used in a specific version see schematic diagram and parts list.

1251 A 3	3304 D 2	6281 D 2	9256 B 2
1252 A 3	3305 D 4	7251 B 3	9257 B 1
1253 E 1	3306 C 2	7252 B 2	9258 C 4
1254 C 3	3309 D 3	7253 B 3	9259 C 4
1255 F 3	3310 D 1	7254 B 2	9260 B 2
1256 F 2	3311 D 4	7255 B 3	9261 B 1
1259 D 3	3312 D 2	7256 B 2	9262 B 1
1261 F 3	3313 C 3	7257 B 3	9263 C 1
1262 F 2	3314 C 2	7258 B 2	9264 C 1
1251 A 3	3315 B 4	7259 B 3	9265 B 1
1252 A 2	3316 B 1	7260 B 2	9266 B 1
1253 A 3	3317 C 3	7261 A 4	9267 C 1
1254 A 2	3318 C 2	7262 B 1	9268 C 1
1255 B 4	3319 B 4	7263 B 4	9269 C 1
1256 B 1	3320 C 2	7264 B 1	9270 C 1
1257 B 3	3321 C 3	7265 A 4	9271 C 2
1258 B 2	3322 C 2	7266 A 1	9272 C 1
1259 B 5	3323 B 4	7267 C 5	9273 C 1
1260 B 1	3324 C 2	7268 C 1	9274 C 2
1261 A 4	3325 D 4	7269 D 3	9275 C 1
1262 A 1	3326 D 1	7270 D 2	9276 C 1
1263 C 3	3327 E 4	7271 C 3	9277 C 1
1264 C 2	3328 D 1	7272 C 2	9278 E 3
1265 A 3	3329 C 4	7273 B 4	9279 E 3
1266 A 2	3330 C 1	7274 C 2	9280 E 3
1267 C 4	3331 C 4	7275 C 3	9281 D 1
1268 C 1	3332 A 1	7276 C 2	9282 D 1
1269 E 4	3333 D 5	7277 C 3	9283 D 2
1270 E 1	3334 D 1	7278 C 2	9284 D 1
1271 E 4	3335 B 4	7279 C 5	9285 C 2
1272 E 1	3336 B 1	7280 C 1	9286 D 1
1273 E 3	3337 D 4	7281 B 5	9287 E 2
1274 E 1	3338 D 1	7282 B 1	9288 D 1
1275 E 4	3339 D 4	7283 E 5	9289 E 1
1276 E 1	3340 D 1	7284 E 1	9290 E 2
1277 A 4	3341 D 4	7285 D 5	9291 E 1
1278 A 4	3342 D 1	7286 D 1	9297 D 4
1279 A 4	3343 D 3	7287 D 4	9298 C 2
1280 A 4	3344 E 1	7288 D 1	9299 D 1
1281 A 4	3345 D 4	7289 E 4	9300 D 1
1282 A 4	3346 D 3	7290 A 4	9301 D 1
1283 D 4	3347 E 3	9201 B 3	9302 D 1
1251 A 3	3348 E 4	9202 B 3	9303 D 1
1252 A 2	3349 E 3	9203 B 3	9304 C 1
1253 A 3	3350 E 1	9204 B 3	9305 C 1
1254 A 2	3351 F 4	9205 B 4	----
1255 A 3	3352 E 1	9206 C 4	
1256 A 2	3353 E 4	9207 A 4	
1257 A 3	3354 E 1	9208 C 4	
1258 A 2	3355 E 2	9209 B 4	
1259 B 3	3356 E 2	9210 B 3	
1260 B 2	3357 A 4	9211 C 4	
1261 B 3	3358 A 4	9212 D 3	
1262 B 2	3360 A 5	9213 D 3	
1263 B 3	3361 A 4	9214 D 2	
1264 B 2	3362 A 4	9215 D 2	
1265 B 3	3364 A 4	9216 D 3	
1266 B 2	3365 A 4	9217 D 3	
1267 B 3	3369 D 1	9218 C 4	
1268 B 2	3370 D 1	9219 C 4	
1269 B 3	5268 E 3	9220 C 4	
1270 B 2	5269 E 2	9221 D 4	
1271 B 3	5270 D 2	9223 D 3	
1272 B 1	5351 E 4	9224 C 3	
1273 B 3	5352 E 1	9225 D 4	
1274 B 2	6251 B 3	9226 D 4	
1275 B 3	6252 B 2	9227 D 4	
1276 B 2	6253 B 3	9228 E 4	
1277 B 3	6254 B 2	9229 D 4	
1278 B 2	6255 B 3	9230 C 4	
1279 B 3	6256 B 2	9231 B 4	
1280 B 1	6257 B 3	9232 C 4	
1281 A 4	6258 B 2	9233 C 3	
1282 B 1	6259 B 3	9234 E 2	
1283 A 4	6260 B 2	9235 A 2	
1284 A 2	6261 B 3	9236 C 4	
1285 B 4	6262 B 2	9237 D 3	
1286 B 1	6263 A 4	9238 D 3	
1287 C 4	6264 A 1	9239 D 3	
1288 B 1	6265 C 4	9240 D 4	
1289 B 3	6266 C 1	9241 D 2	
1290 B 1	6267 C 4	9242 D 4	
1291 A 4	6268 C 1	9243 D 3	
1292 A 1	6269 B 4	9244 D 3	
1293 A 4	6270 C 1	9245 E 2	
1294 A 1	6271 B 4	9246 E 3	
1295 C 3	6272 C 1	9247 E 3	
1296 C 2	6273 C 3	9248 E 2	
1297 C 3	6274 C 1	9249 E 3	
1298 C 2	6275 B 4	9250 E 3	
1299 D 4	6276 B 1	9251 E 3	
1300 D 1	6277 D 4	9252 E 3	
1301 D 4	6278 E 1	9253 E 3	
1302 D 2	6279 D 2	9254 B 1	
1303 D 4	6280 D 3	9255 B 2	

7. EXPLODED VIEW AND PARTS LIST
EXPLODED VIEW



POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION
200	PM7000 BLK	3139 117 88070	FRONT PANEL BLACK
200	PM8000 BLK	3139 117 88080	FRONT PANEL BLACK
200	PM7000 GLD	3139 117 88050	FRONT PANEL GOLD
200	PM8000 GLD	3139 117 88060	FRONT PANEL GOLD
201		4822 454 11825	PLATE, INDICATION
202	BLK	3139 114 66790	WINDOW IR BLACK
202	GLD	3139 114 66800	WINDOW IR GOLD
203		3139 114 66920	LIGHT GUIDE POWER/CLASS
204		3139 114 66900	LIGHT GUIDE MUTE
206		3139 114 66910	LIGHT GUIDE SOURCE
207	BLK	3139 114 66940	CABINET, FRONT BLACK
207	GLD	3139 117 88580	CABINET, FRONT GOLD
210	BLK	3139 114 66930	BUTTON TAPE BLACK
210	GLD	3139 117 88610	BUTTON TAPE GOLD
215	BLK	4822 410 12499	PUSH BUTTON, POWER
215	GLD	4822 410 12552	PUSH BUTTON, POWER
216		3139 114 66970	LINK, POWER
217	BLK	3139 114 66770	BUTTON, PUSH BLACK
217	GLD	3139 117 88600	BUTTON, PUSH GOLD
218	BLK	3139 114 66750	KNOB, ROTARY BLACK
218	GLD	3139 117 88590	KNOB, ROTARY GOLD
219	BLK	3139 117 88040	KNOB, SELECTOR BLACK
219	GLD	3139 117 88110	KNOB, SELECTOR GOLD
220	BLK	3139 117 88030	KNOB, VOL BLACK
220	GLD	3139 117 88090	KNOB, VOL GOLD
223		4822 462 42129	FOOT FRONT
224		4822 462 42129	FOOT REAR
252		4822 532 60948	BUSH, PLASTIC
256		4822 502 13921	SCREW, STEEL
271		4822 404 10933	PLASTIC SUPPORT(LCBS-22)
▲ 385	N	4822 321 11139	MAINS CORD
▲ 385	U	4822 321 11464	MAINS CORD
▲ 385	F	4822 321 11349	MAINS CORD
1605		4822 323 10406	FLEX CABLE 15P
▲ 5011	PM7000 N	4822 146 10823	MAINS TRANSFORMER
▲ 5011	PM8000 N	4822 146 10844	MAINS TRANSFORMER
▲ 5011	PM7000 U	4822 146 10854	MAINS TRANSFORMER
▲ 5011	PM8000 F	4822 146 10853	MAINS TRANSFORMER
PACKING			
384		3139 228 82240	REMOTE CONTROL RC0465/02
387	N	3139 116 18910	USER GUIDE
387	U	3139 116 18920	USER GUIDE
387	F	3139 116 18930	USER GUIDE

8. IDLING CURRENT AND DC OFFSET VOLTAGE ALIGNMENT

8.1 Quiescent Current Adjustment for Class AB

-Set to CD mode with no input, minimum volume position & mains supply at 230 V $\pm$ 5 %.

-Power up the unit, adjust **SLOWLY** 3299 (L) & 3300 (R) until voltage across L-Channel -----3335 (T007 / T006) & 3337 (T009 / T010), R-Channel ----- 3336 (T013 / T014) & 3338 (T015 / T016) is as per the table below.

Time	Voltage
after 30 sec to 1 min*	0.3 mV to < 0.4 mV

- After 30 min, the voltage should settle down to 18 mV $\pm$ 3 mV.

* Start from cold condition.

8.2 Quiescent Current Adjustment for Class A.

- Next, switch to Class A operation. Adjust **SLOWLY** 3309 (L) & 3310 (R) until voltage across L-Channel ----- 3335 (T007 / T006) & 3337 (T009 / T010) , R-Channel ----- 3336 (T013 / T014) & 3338 (T015 / T016) is as per the table below.

Time	Voltage
after 0 sec to 30 sec**	65 mV to <70 mV

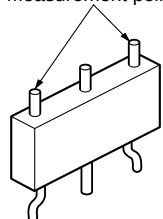
- After 30 min, the voltage should settle down to 90 mV $\pm$ 5 mV.

** Continue immediately after 8.1

REMARKS:

- Please take note that for both Class AB & A alignment, at all time during adjustment, refer to the higher reading of each channel.

Quiescent Current
Measurement point



POS.No.
3335
3337
3336
3338

8.3 DC Offset.

- Adjust 3263 and 3264 until DC offset voltage is less than $\pm$ 10 mV at Speaker output terminal.

8.アイドリング電流およびDCオフセット電圧調整

8.1 アイドリング電流調整 (Class AB)

- 1) 本体の電源スイッチを入れる前に、ボリュームを最小に、バランス及びトーンコントロールをセンターに合わせます。
- 2) CDモードにし、電源電圧を100Vにします。
- 3) セメント抵抗、3335 (T007 / T006) 、3337 (T009 / T010) のLチャンネルと3336 (T013 / T014) 、3338 (T015 / T016) のRチャンネル各々の電圧が下記の値になるまで、半固定抵抗3299 (L) と3300 (R) をゆっくり調整します。

時間	電圧
30秒－1分＊	0.3mV以上0.4mV以下

30分後、電圧は18mV $\pm$ 3mVに安定します。

＊冷却状態からスタートします。

8.2アイドリング電流調整 (Class A)

- 1) A クラス動作に切り換えます。
- 2) セメント抵抗3335 (T007 / T006)、3337 (T009 / T010) のLチャンネルと3336 (T013 / T014) 、3338(T015 / T016)のRチャンネル各々の電圧が下記の値になるまで、半固定抵抗3309 (L) と3310 (R) ゆっくり調整します。

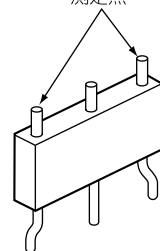
時間	電圧
0秒－30秒 ＊＊	65mV以上70mV以下

30分後、電圧は90mV $\pm$ 5mVに安定します。

＊＊切換え後、すぐに行ってください。

注意：Aクラス動作及びABクラス動作のアイドリング電流調整において、同チャンネル内の2ヶ所の測定点で指示値に差異があった場合は、高い方の電圧値が調整範囲内となるようにします。

アイドリング電流
測定点



POS.No.
3335
3337
3336
3338

8.3 DCオフセット電圧調整

DCオフセット電圧が、スピーカー出力端子で10mV以下になるまで半固定抵抗3263と3264を調整します。

9. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

R* ** : 1) GD05 x x x 140, Carbon film fixed resistor, $\pm 5\%$ 1/4W
 R* ** : 2) GD05 x x x 160, Carbon film fixed resistor, $\pm 5\%$ 1/6W
 ① Resistance value

Examples ;

① Resistance value

0.1 Ω 001 10 Ω 100 1k Ω 102 100k Ω 104
 0.5 Ω 005 18 Ω 180 2.7k Ω 272 680k Ω 684
 1 Ω 010 100 Ω 101 10k Ω 103 1M Ω 105
 6.8 Ω 068 390 Ω 391 22k Ω 223 4.7M Ω 475

Note : Please distinguish 1/4W from 1/6W by the shape of parts used actually.

CAPACITORS

C* ** : CERAMIC CAP.

3) DD1 x x x x 370, Ceramic capacitor
 Disc type
 Temp.coef. P350~N1000, 50V
 ③ Capacity value
 ② Tolerance

Examples

② ATolerance (Capacity deviation)

± 0.25 pF 0
 ± 0.5 pF 1
 $\pm 5\%$ 5

* Tolerance of COMMON PARTS handled here are as follows :

0.5 pF - 5 p ± 0.25 pF
 6 pF - 10 pF ± 0.5 pF
 12 F - 560 pF $\pm 5\%$

③ Capacity value

0.5 pF 005 3 pF 030 100 pF 101
 1 pF 010 10 pF 100 220 pF 221
 1.5 p 015 47 pF 470 560 pF 561

C* ** : CERAMIC CAP.

4) DK16 x x x 300, High dielectric constant ceramic capacitor
 Disc type
 Temp.chara. 2B4, 50V
 ④ Capacity value

Examples

④ Capacity value

100 pF 101 1000 pF 102 10000 pF 103
 470 pF 471 2200 pF 222

C* ** : 5) ELECTROLY CAP. (), 6) FILM CAP ()

5) EA x x x x x 10, Electrolytic capacitor
 One-way lead type Tolerance $\pm 20\%$
 ⑤ Capacity value
 ⑥ Working voltage

Examples

⑤ Capacity value

0.1 μ F 04 4.7 μ F 475 100 μ F 107
 0.33 μ F 334 10 μ F 106 330 μ F 337
 1 μ F 105 22 μ F 226 1100 μ F 118
 2200 μ F 228

⑥ Working voltage

6.3 V. . . 006 25 V. . . 025
 10 V. . . 010 35 V. . . 035
 16 V. . . 016 50 V. . . 050
 6) DF15 x x x 350 Plastic film capacitor
 DF15 x x x 310 One-way type, Mylar $\pm 5\%$ 50V
 DF16 x x x 310 Plastic film capacitor
 One-way type, Mylar $\pm 10\%$ 50V

⑦ Capacity value

Examples

⑦ Capacity value

0.001 μ F (1000pF) 102 0.1 μ F 104
 0.0018 μ F 182 0.56 μ F 564
 0.01 μ F 103 1 μ F 105
 0.015 μ F 151

NOTE : 1) The above CODES(R* **, R* **, C* **, C* **, and C* **) are omitted on the schematic diagram in some case.

2) On the occasion, be confirmed the common parts on the parts list.

3) Refer to "Common Parts List" for the other common parts(RI05, DD4, DK4).

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows ;

1. KOA Corporation

Part No.(MJI)	Type No.(KOA)	Description
NH05 x x x 140	RF25S x x x x Ω J	($\pm 5\%$ 1/4W)
NH05 x x x 120	RF50S x x x x Ω J	($\pm 5\%$ 1/2W)
NH85 x x x 110	RF73B2A x x x x Ω J	($\pm 5\%$ 1/10W)
NH95 x x x 140	RF73B2E x x x x Ω J	($\pm 5\%$ 1/4W)

* Resistance value Resistance value(0.1 Ω - 10k Ω)

2. Matsushita Electronic Components Co., Ltd

Part No.(MJI)	Type No.(MEC)	Description
NF05 x x x 140	ERD-2FCJ x x x	($\pm 5\%$ 1/4W)
RF05 x x x 140		
NF02 x x x 140	ERD-2FCG x x x	($\pm 2\%$ 1/4W)
RF02 x x x 140		

* Resistance value

Examples :

* Resistance value

0.1 Ω 001 10 Ω 100 1k Ω 102 100k Ω 104
 0.5 Ω 005 18 Ω 180 2.7k Ω 272 680k Ω 684
 1 Ω 010 100 Ω 101 10k Ω 103 1M Ω 105
 6.8 Ω 068 390 Ω 391 22k Ω 23 4.7M Ω 475

ABBREVIATION AND MARKS

ANT. : ANTENNA	BATT. : BATTERY
CAP. : CAPACITOR	CER. : CERAMIC
CONN. : CONNECTING	DIG. : DIGITAL
HP : HEADPHONE	MIC. : MICROPHONE
μ -PRO : MICROPROCESSOR	REC. : RECORDING
RES. : RESISTOR	SPK : SPEAKER
SW : SWITCH	TRANSF. : TRANSFORMER
TRIM. : TRIMMING	TRS. : TRANSISTOR
VAR. : VARIABLE	X ' TAL : CRYSTAL

NOTE ON SAFETY:

Symbol  Fire or electrical shock hazard.
 Only original parts should be used to replaced any part marked with symbol  . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意 :

 がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION
			FUNCTION CIRCUIT BOARD				SEMICONDUCTORS
			CAPACITORS				
2551		4822 126 12147	CER. 22NF 10% 25V	6605		4822 130 30621	DIODE 1N4148
2552		4822 126 12147	CER. 22NF 10% 25V	6608		4822 130 30621	DIODE 1N4148
2553	N	4822 122 33519	CER. 470pF 10% 50V	7555		4822 209 31153	IC NJM2114D
2554	N	4822 122 33519	CER. 470pF 10% 50V	7551			
2555	N	4822 126 14316	CER. 680pF 10% 50V	}		4822 130 42839	FET 2SK369BL
2555	U, F	4822 122 33849	CER. 150pF 10% 50V	7554			
2556	N	4822 126 14316	CER. 680pF 10% 50V	7601		4822 130 44568	TRS. BC557B
2556	U, F	4822 122 33849	CER. 150pF 10% 50V	7602		4822 130 40959	TRS. BC547B
2559		4822 124 12023	ELECT 47 μ F 20% 25V				MISCELLANEOUS
2560		4822 124 12023	ELECT 47 μ F 20% 25V	1551		4822 265 10311	CONNECTOR, 2P
2561		4822 121 70654	FILM 2N2 10% 50V	1601		4822 265 10311	CONNECTOR, 2P
2562		4822 121 70654	FILM 2N2 10% 50V	1602	PM7000	4822 267 20453	CONNECTOR, 6P
2563		4822 121 51399	FILM 47NF 10% 50V	1602	PM8000	4822 265 11061	CONNECTOR, 6P
2564		4822 121 51399	FILM 47NF 10% 50V	1603	PM7000	4822 267 31452	CONNECTOR, CABLE/WIRE
2565		4822 121 10685	FILM 1.8NF 10% 50V	1603	PM8000	4822 265 30996	CONNECTOR, CABLE/WIRE
2566		4822 121 10685	FILM 1.8NF 10% 50V	1604		4822 267 50915	CONNECTOR, 15P
2567		4822 121 41935	FILM 12NF 5% 250V	5551		4822 280 20501	RELAY MR62-24SR
2568		4822 121 41935	FILM 12NF 5% 250V	5601			
2569		4822 124 12024	ELECT 10 μ F 20% 16V	}		4822 280 20501	RELAY MR62-24SR
2570		4822 124 12024	ELECT 10 μ F 20% 16V	5612			
2571		4822 121 10696	FILM 4.7NF 2% 50V				TAPE IN/OUT CIRCUIT BOARD
2572		4822 121 10696	FILM 4.7NF 2% 50V				CAPACITORS
2573		4822 124 12022	ELECT 220 μ F 20% 25V				
2574		4822 124 12022	ELECT 220 μ F 20% 25V	2631			
2575		4822 124 40248	ELECT 10 μ F 20% 63V	}		4822 126 12147	CER. 22NF 10% 25V
2601				2638			
}		4822 126 12147	CER. 22NF 10% 25V	2639			
2612				}	N	4822 122 33849	CER. 150pF 10% 50V
2613				2646			
}	N	4822 122 33849	CER. 150pF 10% 50V				RESISTORS
2624							
2647				3621			
}		4822 124 40248	ELECT 10 μ F 20% 63V	}		4822 116 83866	1M 5% 1/6W
2656				3628			
2659		4822 124 11566	ELECT 47 μ F 20% 50V	3629			
				}		4822 116 83883	470R 5% 0.5W
				3632			
			RESISTORS				MISCELLANEOUS
3551		4822 116 83872	220R 5% 0.5W				
3552		4822 116 83872	220R 5% 0.5W	1611	PM7000	4822 267 31452	CONNECTOR, CABLE/WIRE
3553		4822 116 83884	47K 5% 0.5W	1611	PM8000	4822 265 30996	CONNECTOR, CABLE/WIRE
3554		4822 116 83884	47K 5% 0.5W	1612	PM7000	4822 267 31452	CONNECTOR, CABLE/WIRE
3555				1612	PM8000	4822 265 30996	CONNECTOR, CABLE/WIRE
}		4822 116 52283	4K7 5% 0.5W				VOLUME CIRCUIT BOARD
3560							CAPACITORS
3561		4822 116 52206	120E 5% 0.5W				
3562		4822 116 52206	120E 5% 0.5W	2653		4822 122 33195	CER. 100pF 10% 50V
3563		4822 116 52175	100E 5% 0.5W	2654		4822 122 33195	CER. 100pF 10% 50V
3564		4822 116 52175	100E 5% 0.5W	2657		4822 122 33524	CER. 22pF 5% 50V
3565		4822 116 52234	100K 5% 0.5W	2658		4822 122 33524	CER. 22pF 5% 50V
3566		4822 116 52234	100K 5% 0.5W	2659		4822 126 12339	CER. 2.2NF 10%
3567		4822 116 52289	5K6 5% 0.5W	2660		4822 126 12339	CER. 2.2NF 10%
3568		4822 116 52289	5K6 5% 0.5W	2661		4822 124 12026	ELECT 22 μ F 20% 25V
3569		4822 116 52175	100E 5% 0.5W	2662		4822 124 12026	ELECT 22 μ F 20% 25V
3570		4822 116 52175	100E 5% 0.5W	2663		4822 121 10686	FILM 4.7NF 10% 50V
3571		4822 116 52234	100K 5% 0.5W	2664		4822 121 10686	FILM 4.7NF 10% 50V
3572		4822 116 52234	100K 5% 0.5W	2665		4822 124 12434	ELECT 220 μ F 20% 16V
3573		4822 116 83872	220R 5% 0.5W	2666		4822 124 12434	ELECT 220 μ F 20% 16V
3574		4822 116 83872	220R 5% 0.5W	2667		4822 124 40769	ELECT 4.7 μ F 20% 100V
3575		4822 052 10479	47R 5% 0.33W	2668		4822 124 40769	ELECT 4.7 μ F 20% 100V
3576		4822 052 10479	47R 5% 0.33W	2669		4822 124 12027	ELECT 2.2 μ F 20% 50V
3601				2670		4822 124 12027	ELECT 2.2 μ F 20% 50V
}		4822 116 83866	1M 5% 0.5W	2671		4822 122 30043	CER. 10NF 80% 63V
3618							
3633		4822 050 21003	10K 1% 0.6W				
3634		4822 050 21003	10K 1% 0.6W				
3635		4822 050 21003	10K 1% 0.6W				
3637		4822 050 21003	10K 1% 0.6W				

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION
			RESISTORS				
3651	PM7000	4822 116 83874	220K 5% 0.5W	3416		4822 116 83881	390R 5% 0.5W
3651	PM8000	4822 116 52244	15K 5% 0.5W	3422			
3652	PM7000	4822 116 83874	220K 5% 0.5W	3423			
3652	PM8000	4822 116 52244	15K 5% 0.5W			4822 116 52234	100K 5% 0.5W
3653		4822 050 11002	1K 1% 0.4W	3426			
3654		4822 050 11002	1K 1% 0.4W	3427			
3655	PM7000	4822 116 52206	120E 5% 0.5W			4822 050 21003	10K 1% 0.6W
3655	PM8000	4822 116 83876	270R 5% 0.5W	3436			
3656	PM7000	4822 116 52206	120E 5% 0.5W	3437		4822 116 52234	100K 5% 0.5W
3656	PM8000	4822 116 83876	270R 5% 0.5W	3438		4822 116 52234	100K 5% 0.5W
3657				3439		4822 116 52234	100K 5% 0.5W
3662		4822 116 52283	4K7 5% 0.5W	3440		4822 116 83872	220R 5% 0.5W
3663				3441		4822 116 52234	100K 5% 0.5W
3664		4822 116 83872	220R 5% 0.5W	3442		4822 050 23303	33K 1% 0.6W
3665		4822 116 83866	1M 5% 0.5W	3443		4822 116 52257	22K 5% 0.5W
3666		4822 116 83866	1M 5% 0.5W	3444		4822 116 52283	4K7 5% 0.5W
3667	PM7000	4822 050 11002	1K 1% 0.4W	3445		4822 116 52256	2K2 5% 0.5W
3667	PM8000	4822 116 52256	2K2 5% 0.5W	3446		4822 116 52257	22K 5% 0.5W
3668	PM7000	4822 050 11002	1K 1% 0.4W	3447		4822 116 52175	100E 5% 0.5W
3668	PM8000	4822 116 52256	2K2 5% 0.5W	3448			
3669		4822 116 52175	100E 5% 0.5W			4822 050 21003	10K 1% 0.6W
3670		4822 116 52175	100E 5% 0.5W	3451			
3671		4822 116 52234	100K 5% 0.5W	3452		4822 052 10101	100R 5% 0.33W
3672		4822 116 52234	100K 5% 0.5W	3453			
3673		4822 116 83872	220R 5% 0.5W			4822 050 21003	10K 1% 0.6W
3674		4822 116 83872	220R 5% 0.5W	3459			
▲ 3675		4822 052 10479	47R 5% 0.33W	3460		4822 116 52257	22K 5% 0.5W
▲ 3676		4822 052 10479	47R 5% 0.33W	3461		4822 050 21003	10K 1% 0.6W
3681	PM7000	4822 101 11789	VARIAB. 50K X2 20% 0.05W	3462		4822 116 83884	47K 5% 0.5W
3681	PM8000	4822 101 11803	VARIAB. RK16314MC(50KX2)	3463		4822 050 21003	10K 1% 0.6W
			SEMICONDUCTORS	3464		4822 050 21003	10K 1% 0.6W
7651				3465		4822 116 52257	22K 5% 0.5W
7654		4822 130 42839	FET 2SK369BL	3466		4822 116 52195	47E 5% 0.5W
7655		4822 209 31153	IC NJM2114D	3467		4822 052 10101	100R 5% 0.33W
			FRONT CIRCUIT BOARD	3468			
			CAPACITORS			4822 050 21003	10K 1% 0.6W
2401		4822 121 51387	FILM 10NF 20% 16V	3488			
2403		4822 121 51387	FILM 10NF 20% 16V	3489		4822 116 83884	47K 5% 0.5W
2404		4822 124 81151	ELECT 22μF 50V	3490		4822 050 21003	10K 1% 0.6W
2405		4822 124 81151	ELECT 22μF 50V	3491		4822 116 83884	47K 5% 0.5W
2406		4822 124 80818	ELECT 22M 5.5V	3492		4822 050 21003	10K 1% 0.6W
2407		4822 126 12882	CER. 100NF +80-20% 50V	3493		4822 116 83884	47K 5% 0.5W
2408		4822 124 81151	ELECT 22μF 50V	3494		4822 050 21003	10K 1% 0.6W
2409		4822 124 81151	ELECT 22μF 50V	3495		4822 116 83872	220R 5% 0.5W
2410		4822 121 51387	FILM 10NF 20% 16V	3496		4822 116 52256	2K2 5% 0.5W
2411		4822 121 51387	FILM 10NF 20% 16V	3541	PM8000	4822 053 10332	3K30 5% 1W
2412		4822 124 81151	ELECT 22μF 50V	3542		4822 050 21003	10K 1% 0.6W
2413		4822 121 51387	FILM 10NF 20% 16V	3543		4822 116 83881	390R 5% 0.5W
2414		4822 126 12882	CER. 100NF +80-20% 50V	3544		4822 050 21003	10K 1% 0.6W
2415		4822 124 81151	ELECT 22μF 50V	3545		4822 116 83881	390R 5% 0.5W
2416		4822 121 51387	FILM 10NF 20% 16V	3546		4822 050 21003	10K 1% 0.6W
2417		4822 121 51387	FILM 10NF 20% 16V	3547		4822 050 21003	10K 1% 0.6W
2425							SEMICONDUCTORS
3401		4822 126 12882	CER. 100NF +80-20% 50V	6401		4822 130 30621	DIODE 1N4148
3402				6404			
3403				6405		4822 130 34174	DIODE BZX79-B4V7
3408				6406			
			RESISTORS			4822 130 82978	LED LTL-16KPE-P
		4822 052 10101	100R 5% 0.33W	6413			
		4822 116 52234	100K 5% 0.5W	6414	PM8000	4822 130 82978	LED LTL-16KPE-P
				6415		4822 130 82978	LED LTL-16KPE-P
		4822 050 21003	10K 1% 0.6W	6416		4822 130 82978	LED LTL-16KPE-P
				6417		4822 130 30621	DIODE 1N4148
				6418		4822 130 30621	DIODE 1N4148
				7401		4822 209 15719	IC TMP47C200BN
				7402		4822 209 30193	IC LB1641

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION
7404	N	4822 130 40959	TRS. BC547B	2509		4822 122 33293	CER. 100pF 5% 50V
7405		4822 130 40959	TRS. BC547B	2510		4822 122 33293	CER. 100pF 5% 50V
7406		4822 130 40959	TRS. BC547B	2511		4822 124 40769	ELECT 4.7 μ F 20% 100V
7407		4822 130 44568	TRS. BC557B	2512		4822 124 40769	ELECT 4.7 μ F 20% 100V
7408		4822 130 40959	TRS. BC547B	2513		4822 121 51399	FILM 47NF 10% 50V
7409		4822 130 44568	TRS. BC557B	2514		4822 121 51399	FILM 47NF 10% 50V
7412				2515		4822 124 12022	ELECT 220 μ F 20% 25V
7413		4822 130 40959	TRS. BC547B	2516		4822 124 12022	ELECT 220 μ F 20% 25V
7414		4822 130 40959	TRS. BC547B	2517		4822 124 40763	ELECT 2.2 μ F 100 V
7415		4822 130 44568	TRS. BC557B	2518		4822 124 40763	ELECT 2.2 μ F 100 V
7416		4822 130 40959	TRS. BC547B	2519		4822 121 10686	FILM 4.7NF 10% 50V
7417		4822 130 44568	TRS. BC557B	2520		4822 121 10686	FILM 4.7NF 10% 50V
7418		4822 130 40959	TRS. BC547B	2535		4822 122 33195	CER. 100pF 10% 50V
7419		4822 130 44568	TRS. BC557B	2536		4822 122 33195	CER. 100pF 10% 50V
7420		4822 130 40959	TRS. BC547B				RESISTORS
7421		4822 130 44568	TRS. BC557B	▲ 3203		4822 052 10479	47R 5% 0.33W
7422		4822 130 40959	TRS. BC547B	3501		4822 116 83866	1M 5% 0.5W
7423		4822 130 44568	TRS. BC557B	}			
7424		4822 130 40959	TRS. BC547B	3504			
7425		4822 130 44568	TRS. BC557B	3505		4822 116 83874	220K 5% 0.5W
7426		4822 130 40959	TRS. BC547B	3506		4822 116 83874	220K 5% 0.5W
7427		4822 130 44568	TRS. BC557B	3507		4822 116 83872	220R 5% 0.5W
7428		4822 130 40959	TRS. BC547B	3508		4822 116 83872	220R 5% 0.5W
}				3509		4822 116 52269	3K3 5% 0.5W
7431		4822 130 44568	TRS. BC557B	3510		4822 116 52269	3K3 5% 0.5W
7432				3511		4822 101 11788	VARIAB. 10K X2 20% 0.05W
7433		4822 130 44568	TRS. BC557B	3512		4822 101 11788	VARIAB. 10K X2 20% 0.05W
7434		4822 130 40959	TRS. BC547B	▲ 3513		4822 052 10479	47R 5% 0.33W
			MISCELLANEOUS	▲ 3514		4822 052 10479	47R 5% 0.33W
1401		4822 276 13114	SWITCH, PUSH BUTTON	3515		4822 116 52207	1K2 5% 0.5W
1402		4822 276 13114	SWITCH, PUSH BUTTON	3516		4822 116 52207	1K2 5% 0.5W
1403		4822 273 10336	SWITCH, ROTARY	3517		4822 116 52291	56K 5% 0.5W
			SRBV14-F1620-11	3518		4822 116 52291	56K 5% 0.5W
1407		4822 267 51322	CONNECTOR, 15P	3519		4822 116 52207	1K2 5% 0.5W
5400		4822 242 72527	FILTER, CERAMIC	3520		4822 116 52207	1K2 5% 0.5W
			CST4.00MGW-TF01	3521		4822 116 52291	56K 5% 0.5W
5401		4822 157 50963	COIL 2.2 μ H	3522		4822 116 52291	56K 5% 0.5W
7403		4822 130 10165	REMOTE RECEIVER GP1U28XP	3523		4822 052 10479	47R 5% 0.33W
			ENCODER CIRCUIT BOARD	▲ 3524		4822 052 10479	47R 5% 0.33W
			RES. 100E 5% 0.5W	3525		4822 116 83872	220R 5% 0.5W
3497		4822 116 52175	RES. 100E 5% 0.5W	3526		4822 116 83872	220R 5% 0.5W
3498		4822 116 52175	RES. 100E 5% 0.5W	3527		4822 116 83874	220K 5% 0.5W
				3528		4822 116 83874	220K 5% 0.5W
1404		4822 273 10237	SWITCH, ROTARY	3529		4822 101 30828	VARIAB. 100K
			SRRS1C(G79424930)	3537		4822 116 52269	3K3 5% 0.5W
			TONE CIRCUIT BOARD	3538		4822 116 52269	3K3 5% 0.5W
			CAPACITORS	3539		4822 116 52234	100K 5% 0.5W
2201		4822 122 30043	CER. 10NF 80% 63V	3540		4822 116 52234	100K 5% 0.5W
2202		4822 122 30043	CER. 10NF 80% 63V	▲ 6201		4822 130 31878	SEMICONDUCTORS
2203		4822 124 12025	ELECT 470 μ F 20% 35V	▲ 6202		4822 130 31878	DIODE 1N4003G
2204		4822 124 41329	ELECT 2200 μ F 20% 35V	▲ 6203		4822 130 31878	DIODE 1N4003G
2205		4822 124 12022	ELECT 220 μ F 20% 25V	▲ 6204		4822 130 31878	DIODE 1N4003G
2206		4822 124 12022	ELECT 220 μ F 20% 25V	7201		5322 209 86361	IC MC7915CT
2207		4822 124 12025	ELECT 470 μ F 20% 35V	7202		5322 209 71759	IC MCT7815CT
2208		4822 124 40257	ELECT 220 μ F 20% 63V	7203		5322 130 44349	TRS. BC635
2209		4822 124 12025	ELECT 470 μ F 20% 35V	7501		4822 209 73064	IC NJM2068DD
2210		4822 124 12025	ELECT 470 μ F 20% 35V	7502		4822 209 73064	IC NJM2068DD
2211		4822 122 30103	CER. 22NF 80% 63V	7503		4822 209 73064	IC NJM2068DD
2501		4822 124 81151	ELECT 22 μ F 50V				
2502		4822 124 81151	ELECT 22 μ F 50V	▲ 1201		4822 071 55001	MISCELLANEOUS
2503		4822 122 33849	CER. 150pF 10% 50V	▲ 1202		4822 071 55001	FUSE 19372(500MA)
2504		4822 122 33849	CER. 150pF 10% 50V	1500		2422 128 02902	FUSE 19372(500MA)
2505		4822 124 12022	ELECT 220 μ F 20% 25V				SWITCH, PUSH
2506		4822 124 12022	ELECT 220 μ F 20% 25V				
2507		4822 121 41857	FILM 10NF 5% 250V				
2508		4822 121 41857	FILM 10NF 5% 250V				

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION
			POWER CIRCUIT BOARD CAPACITORS				MAIN CIRCUIT BOARD CAPACITORS
▲ 2201		2020 558 90382	CER. CERSAF KC-F 250V S 10N PM20	2251		4822 124 12023	ELECT 47 μ F 20% 25V
▲ 2202		2020 558 90382	CER. CERSAF KC-F 250V S 10N PM20	2252		4822 124 12023	ELECT 47 μ F 20% 25V
2204	U, F	5322 121 42498	CER. 680NF 5% 63V	2253		4822 122 33197	CER. 1NF 10% 50V
2205		4822 124 12028	ELECT 12000 μ F 20% 63V	2254		4822 122 33197	CER. 1NF 10% 50V
2206		4822 124 12028	ELECT 12000 μ F 20% 63V	2255		4822 124 12022	ELECT 220 μ F 20% 25V
2207	PM8000	4822 124 42391	ELECT 470 μ F 20% 63V	2256		4822 124 12022	ELECT 220 μ F 20% 25V
2208	PM8000	4822 124 42391	ELECT 470 μ F 20% 63V	2257	PM7000	4822 122 33519	CER. 470pF 10% 50V
2209		4822 121 51319	FILM 1 μ F 1% 63V	2258	PM7000	4822 126 12339	CER. 2.2NF 10%
2210		4822 124 21913	ELECT 1 μ F 20% 63V	2258	PM8000	4822 122 33519	CER. 470pF 10% 50V
2211		4822 124 80141	CER. 10NF 10% 50V	2259	PM8000	4822 126 12339	CER. 2.2NF 10%
2212		4822 124 80141	CER. 10NF 10% 50V	2259	PM7000	4822 126 14164	CER. 10pF 5% 50V
2214	U, F	5322 121 42498	CER. 680NF 5% 63V	2260	PM8000	4822 122 31822	CER. 4.7pF 10% 100V
2217	N	4822 121 51387	FILM 10NF 20% 16V	2261	PM7000	4822 122 33519	CER. 470pF 10% 50V
2302		4822 124 12022	ELECT 220 μ F 20% 25V	2261	PM8000	4822 122 33197	CER. 1NF 10% 50V
2304		4822 124 12056	ELECT 1000 μ F 20% 35V	2262	PM7000	4822 122 33519	CER. 470pF 10% 50V
2305		4822 124 40433	ELECT 47 μ F 20% 25V	2262	PM8000	4822 122 33197	CER. 1NF 10% 50V
2401		4822 126 12333	CER. 100NF 10% 25V	2263	PM7000	2020 012 93547	ELECT 100 μ F 20% 63V
			RESISTORS	2263	PM8000	4822 124 40257	ELECT 220 μ F 20% 63V
3204	U, F	4822 050 26808	6R8 1% 0.6W	2264	PM7000	2020 012 93547	ELECT 100 μ F 20% 63V
▲ 3207		4822 052 10108	1R 5% 0.33W	2264	PM8000	4822 124 40257	ELECT 220 μ F 20% 63V
▲ 3208		4822 052 10479	47R 5% 0.33W	2265	PM7000	2020 012 93547	ELECT 100 μ F 20% 63V
▲ 3209		4822 052 10479	47R 5% 0.33W	2265	PM8000	4822 124 40257	ELECT 220 μ F 20% 63V
3210		4822 116 52234	100K 5% 0.5W	2266	PM7000	2020 012 93547	ELECT 100 μ F 20% 63V
3211		4822 116 52234	100K 5% 0.5W	2266	PM8000	4822 124 40257	ELECT 220 μ F 20% 63V
3217	PM8000	4822 053 10229	22R 5% 1W	2267		4822 124 12022	ELECT 220 μ F 20% 25V
3218	PM8000	4822 053 10229	22R 5% 1W	2268		4822 124 12022	ELECT 220 μ F 20% 25V
			SEMICONDUCTORS	2269			
6202		4822 130 30621	DIODE 1N4148	}		5322 121 42386	FILM 100NF 0.05 63V
6204	PM8000	4822 130 30621	DIODE 1N4148	2272			
▲ 6205		4822 130 10944	DIODE BRIDGE GBU6D	2273			
6206				}	N	4822 124 80141	CER. 10NF 10% 50V
}	PM8000	4822 130 31878	DIODE 1N4003G	2276		4822 124 21913	ELECT 1 μ F 20% 63V
6209				2283			
▲ 6210		4822 130 31878	DIODE 1N4003G				RESISTORS
}				3251		4822 116 52176	10E 5% 0.5W
▲ 6216		4822 130 30621	DIODE 1N4148	3252		4822 116 52176	10E 5% 0.5W
6302		4822 209 80817	IC L7805CV	3253		4822 116 83874	220K 5% 0.5W
▲ 7302				3254		4822 116 83874	220K 5% 0.5W
			MISCELLANEOUS	3255		4822 050 11002	1K00 1% 0.4W
▲ 1201		2422 128 02898	SWITCH, PUSH	3256		4822 050 11002	1K00 1% 0.4W
▲ 1205	N	4822 070 32502	FUSE 21802.5(2.5A)	3257		4822 116 52264	27K 5% 0.5W
▲ 1206	N	4822 265 11009	MAINS OUTLET	3258		4822 116 52264	27K 5% 0.5W
▲ 1206	U, F	4822 265 11081	MAINS OUTLET	3259		4822 116 52213	180E 5% 0.5W
▲ 1209	N	4822 070 33152	FUSE 2183.15(3.15A)	3260		4822 116 52213	180E 5% 0.5W
▲ 1209	U, F	4822 070 36302	FUSE 21806.3(6.3A)	3261		4822 116 83872	220R 5% 0.5W
▲ 1213	PM8000	4822 071 54002	FUSE 19372(4A)	3262		4822 116 83872	220R 5% 0.5W
▲ 1214	PM8000	4822 071 54002	FUSE 19372(4A)	3263		4822 100 11213	VARIAB. 22K 30% LIN 0.1W
▲ 1215		4822 071 55001	FUSE 19372(500MA)	3264		4822 100 11213	VARIAB. 22K 30% LIN 0.1W
▲ 1216	PM8000	4822 071 55001	FUSE 19372(500MA)	3265			
1401		4822 267 41009	CONNECTOR, CABLE/WIRE	}		4822 116 83872	220R 5% 0.5W
▲ 5202		4822 280 10337	RELAY VS-12MB-NR (1P-12V)	3270			
▲ 5204	PM8000	4822 280 10344	RELAY LY2-0-DC24 B	3271		4822 116 52243	1K5 5% 0.5W
▲ 5205	N	4822 146 10828	TRANSFORMER	3272		4822 116 52243	1K5 5% 0.5W
▲ 5205	U, F	4822 146 10861	TRANSFORMER	3273		4822 050 11002	1K00 1% 0.4W
				3274		4822 050 11002	1K00 1% 0.4W
				3275		4822 116 83884	47K 5% 0.5W
				3276		4822 116 83884	47K 5% 0.5W
				3277	PM7000	4822 116 83872	220R 5% 0.5W
				3277	PM8000	4822 116 52228	680E 5% 0.5W
				3278	PM7000	4822 116 83872	220R 5% 0.5W
				3278	PM8000	4822 116 52228	680E 5% 0.5W
				3279			
				}		4822 050 11002	1K 1% 0.4W
				3284			

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION
3285	PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000	4822 116 52264	27K 5% 0.5W	6251	PM8000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000 PM7000 PM8000	4822 130 30621	SEMICONDUCTORS DIODE 1N4148
3286		4822 116 52264	27K 5% 0.5W	}			
3287		4822 116 83868	150R 5% 0.5W	6266			
3288		4822 116 83868	150R 5% 0.5W	6267		5322 130 34834	DIODE BZX79-C3V6
3289		4822 116 83874	220K 5% 0.5W	}			
3289		4822 116 83884	47K 5% 0.5W	6270			
3290		4822 116 83874	220K 5% 0.5W	6271		4822 130 30621	DIODE 1N4148
3290		4822 116 83884	47K 5% 0.5W	6272		4822 130 30621	DIODE 1N4148
3291		4822 116 83874	220K 5% 0.5W	6273			
3291		4822 116 83884	47K 5% 0.5W	}		4822 130 30842	DIODE BAV21
3292		4822 116 83874	220K 5% 0.5W	6278			
3292		4822 116 83884	47K 5% 0.5W	6279		4822 130 30621	DIODE 1N4148
3293		4822 116 83868	150R 5% 0.5W	6280		4822 130 30621	DIODE 1N4148
3294		4822 116 83868	150R 5% 0.5W	6281		4822 130 30621	DIODE 1N4148
3295				7251			
}		4822 052 10109	10E 5% 0.33W	}		4822 130 43233	TRS. 2SC2240GR
3298				7256			
3299		4822 101 11787	VARIAB. 100R 30% 0.1W	7257			
3300		4822 101 11787	VARIAB. 100R 30% 0.1W	}		4822 130 42949	TRS. 2SA970GR
3301		4822 116 83876	270R 5% 0.5W	7260			
3302		4822 116 83876	270R 5% 0.5W	7261		4822 130 43233	TRS. 2SC2240GR
3303		4822 116 52207	1K2 5% 0.5W	7262		4822 130 43233	TRS. 2SC2240GR
3304		4822 116 52207	1K2 5% 0.5W	7263		4822 130 61009	TRS. 2SC3423(O)
3305		4822 116 80176	1E 5% 0.5W	7264		4822 130 61009	TRS. 2SC3423(O)
3306		4822 116 80176	1E 5% 0.5W	7265		5322 130 61728	TRS. 2SA1360-Y
3309		4822 100 20166	VARIAB. 10K 30% LIN 0.1W	7266		5322 130 61728	TRS. 2SA1360-Y
3310		4822 100 20166	VARIAB. 10K 30% LIN 0.1W	▲ 7267		4822 130 60117	TRS. 2SC3419
3311		4822 050 11002	1K 1% 0.4W	▲ 7268		4822 130 60117	TRS. 2SC3419
3312		4822 050 11002	1K 1% 0.4W	7269		4822 130 90347	COUPLER /PHOTO PC817
3313				7270		4822 130 90347	COUPLER /PHOTO PC817
}		4822 052 10101	100R 5% 0.33W	7271		4822 130 41646	TRS. BF423
3316				7272		4822 130 41646	TRS. BF423
3317				7273		4822 130 41782	TRS. BF422
}		4822 052 10681	680R 5% 0.33W	7274		4822 130 41782	TRS. BF422
3320				▲ 7275		4822 130 63634	TRS. 2SA1837Y
3321				▲ 7276		4822 130 63634	TRS. 2SA1837Y
}		4822 052 10479	47R 5% 0.33W	▲ 7277		4822 130 10941	TRS. 2SC4793
3324				▲ 7278		4822 130 10941	TRS. 2SC4793
▲ 3325		4822 052 10151	150R 5% 0.33W	▲ 7279		4822 130 10942	TRS. 2SA1941
▲ 3326		4822 052 10151	150R 5% 0.33W	▲ 7279		4822 130 37279	TRS. 2SA1962
▲ 3327				▲ 7280		4822 130 10942	TRS. 2SA1941
}		4822 052 10109	10R 5% 0.33W	▲ 7280		4822 130 10983	TRS. 2SA1962
▲ 3334				▲ 7281		4822 130 10943	TRS. 2SC5198
▲ 3335				▲ 7281		4822 130 10984	TRS. 2SC5242
}		4822 116 82049	2 X R18 3W	▲ 7282		4822 130 10943	TRS. 2SC5198
▲ 3338				▲ 7282		4822 130 10984	TRS. 2SC5242
3339				▲ 7283		4822 130 10942	TRS. 2SA1941
}		4822 050 21002	1K 1% 0.6W	▲ 7283		4822 130 10983	TRS. 2SA1962
3342				▲ 7284		4822 130 10942	TRS. 2SA1941
3343		4822 116 52257	22K 5% 0.5W	▲ 7284		4822 130 10983	TRS. 2SA1962
3344		4822 116 52257	22K 5% 0.5W	▲ 7285		4822 130 10943	TRS. 2SC5198
3345		4822 116 52289	5K6 5% 0.5W	▲ 7285		4822 130 10984	TRS. 2SC5242
3346		4822 116 52257	22K 5% 0.5W	▲ 7286		4822 130 10943	TRS. 2SC5198
3347		4822 116 52297	68K 5% 0.5W	▲ 7286		4822 130 10984	TRS. 2SC5198
3347		4822 116 83882	39K 5% 0.5W	7287		4822 130 10984	TRS. 2SC5242
3348		4822 116 52257	22K 5% 0.5W	7288		4822 130 43233	TRS. 2SC2240GR
3349		4822 116 52297	68K 5% 0.5W	7289		4822 130 43233	TRS. 2SC2240GR
3350		4822 116 52297	68K 5% 0.5W			4822 130 42949	TRS. 2SA970GR
3351		4822 052 10221	220R 5% 0.33W				
3352		4822 052 10221	220R 5% 0.33W				
3353		4822 053 12109	10R 5% 3W	1255		4822 265 11068	MISCELLANEOUS CONNECTOR,LOUDSPEAKER SOCKET LEFT
3354		4822 053 12109	10R 5% 3W	1256		4822 265 11069	CONNECTOR,LOUDSPEAKER SOCKET RIGHT
3355		4822 053 11331	330R 5% 2W			4822 280 70354	RELAY VB-24MBU-510
3356		4822 053 11331	330R 5% 2W	5268		4822 280 70354	RELAY VB-24MBU-510
3369		4822 050 11002	1K 1% 0.4W	5269		4822 280 20501	RELAY MR62-24SR
3370		4822 050 11002	1K 1% 0.4W	5270		4822 157 70599	COIL
				5351		4822 157 70599	COIL
				5352			

POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	POS. NO	VERS. COLOR	PART NO. (PCS)	DESCRIPTION
			SPK PROTECT CIRCUIT BOARD CAPACITORS				
2277		4822 121 51387	FILM 10NF 20% 16V				
2278		4822 124 40433	ELECT 47 μ F 20% 25V				
2279		4822 124 40433	ELECT 47 μ F 20% 25V				
2281		4822 124 21913	ELECT 1 μ F 20% 63V				
2282		4822 124 40433	ELECT 47 μ F 20% 25V				
			RESISTORS				
3357		4822 116 83884	47K 5% 0.5W				
3358		4822 053 10103	10K 5% 1W				
3360		4822 116 83874	220K 5% 0.5W				
3361		4822 050 23303	33K 1% 0.6W				
3362		4822 116 52291	56K 5% 0.5W				
3364		4822 053 10223	22K 5% 1W				
3365		4822 116 52234	100K 5% 0.5W				
			SEMICONDUCTOR				
7290		4822 209 83312	IC TA7317P				
			SPK SW CIRCUIT BOARD CAPACITORS				
2533		4822 122 30043	CER. 10NF 80% 63V				
2534		4822 122 30043	CER. 10NF 80% 63V				
			RESISTORS				
3530		4822 116 52256	2K2 5% 0.5W				
3531		4822 116 52256	2K2 5% 0.5W				
3532		4822 116 52257	22K 5% 0.5W				
3533		4822 116 52176	10E 5% 0.5W				
3534		4822 116 52176	10E 5% 0.5W				
3535		4822 116 52234	100K 5% 0.5W				
			SEMICONDUCTORS				
6529		4822 130 30621	DIODE 1N4148				
7529		4822 130 44283	TRS. BC636				
7530		4822 130 44568	TRS. BC557B				
			MISCELLANEOUS				
1507		2422 128 02897	SWITCH UNIT				
1510		4822 267 31453	CONNECTOR, HLJ1540				