

SERVICE  
MANUAL

RV253

4822 725 50858

**marantz®**

model **RV253**

*Dolby Surround Processor*

## MARANTZ DESIGN AND SERVICE

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.

Parts for your MARANTZ equipment are generally available to our National Marantz Subsidiary or Agent.

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Parts can be ordered either by mail or by telex. In both cases, 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 telex must be signed otherwise such part order will be considered as null and void.

## PARTS ORDERING

Parts may be ordered at the following addresses:

**AUSTRIA**  
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Wienerbergstrasse 1  
A 1101 Wien  
Austria  
Telex: 132.332

**BELGIUM**  
SVD DIVISION MARANTZ  
Industrialaan 1  
1720 Groot-Bijgaarden  
Belgium  
Telex: 24466

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DIVISION OF PHILIPS  
SERVICE A/S  
Prags Boulevard 80  
Postbox 1919  
DK-2300 København S  
Denmark  
Telex: 31201

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DIVISION OF OY PHILIPS Ab  
Kaivokatu 8  
00100 Helsinki  
Finland  
Telex: 124811

**FRANCE**  
MARANTZ FRANCE  
4 Rue Bernard Palissy  
92600 Asnières  
France  
Telex: 611651

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MARANTZ GERMANY GmbH  
Max-Planck-Strasse 22  
6072 Dreieich 1  
Germany  
Telex: 529821

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3526 KV Utrecht  
The Netherlands  
Telex: 4748

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0680 Oslo 6  
Norway  
Telex: 72640

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MARANTZ AUDIO U.K. Ltd  
Unit 15/16  
Saxon Way Industrial Estate  
Moor Lane  
Harmondsworth UB7 OLW  
Great Britain  
Telex: 935196

**GREECE**  
SHERTON ELECTRONICS S.A.  
P.O.Box 21025  
Hippocrates Street 188  
Athens 11471  
Greece  
Telex: 216.795

**JAPAN**  
MARANTZ JAPAN, Inc.  
35-1, 7-chome, Sagamiono  
Sagamihara-shi, Kanagawa  
Japan

**KUWAIT**  
AL ALAMIAH ELECTRONICS  
Ussama Building  
Fahd al Saleem Street  
P.O.Box 23781  
Safat-Kuwait  
Telex: 22694

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MARANTZ ITALIANA S.P.A.  
Via Chiese, 74  
20126 Milano  
Italy

**SAUDI ARABIA**  
AL ALAMIAH ELECTRONICS  
P.O.Box 5954  
University Street  
Riyadh 11432  
Saudi Arabia  
Telex: 401530

**SOUTH AFRICA**  
MARANTZ  
DIVISION OF PHILIPS S.A.  
Main Road Martindale  
P.O. Box. 58088  
Newville 21114  
South Africa

**SPAIN**  
PHONO S.A.  
Ignacio Iglesias 10  
Badalona (Barcelona)  
Spain  
Telex: 59355

**SWEDEN**  
MARANTZ  
DIVISION OF PHILIPS  
Försäljning AB  
Tegeluddsvägen 1  
S-115 84 Stockholm  
Sweden  
Telex: 14060

**SWITZERLAND**  
DYNAVON ELECTRONICS  
Route de Villars 105  
1701 Fribourg  
Switzerland  
Telex: 942377

**TURKEY**  
DOGRUOL Ltd.  
I.M.C.  
6 Blok N°6310  
Unkapani  
Istanbul  
Turkey  
Telex: 22085

**MALTA**  
CACHIA & GALEA  
Republic Street, 68D  
Valetta  
Telex: 1682

**PORTUGAL**  
MARANTZ  
Divisao philips S.A. service  
Ourela-carnaxide  
2795 LinDA-A-VELHA  
Telex: 43906

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5600 MD Eindhoven  
The Netherlands  
Phone: +31/40.758290  
Telefax: +31/40.75.82.99  
Telex: 35000 PHTC NL routing IND NLMTFAT

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## How to use this service manual

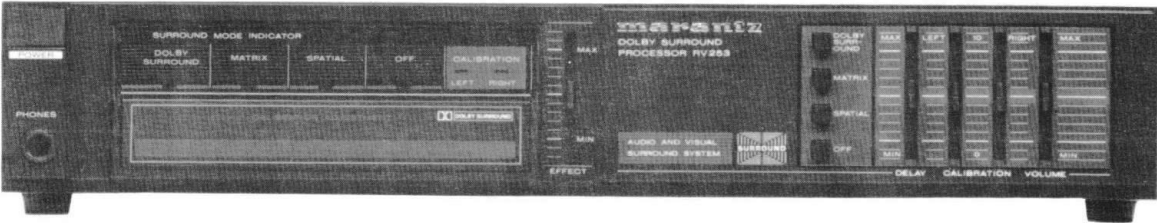
- The "Common parts" which Marantz Japan, Inc. has established are eliminated from this service manual.
- These "Common parts" are applied to all models in the service manuals arranged and issued by MJI.
- To indicate clearly the common parts in the schematic diagram, a line is drawn above or under the Ref. Desig. No. of applicable parts.
- "Common parts" can be supplied from the Marantz service center as ever.  
In case of ordering, please establish the parts number of 12 N/C'S following the procedure mentioned in this service manual "How to establish the parts number for common parts".

- 1) Please correctly write the parts number of 12 N/C'S following the rule.

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please, contact the nearest facility for the necessary assistance.

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

MODEL RV253 DOLBY SURROUND PROCESSOR



1. P.W. BOARDS

As can be seen from the circuit diagram, the chassis of your Dolby Surround Processor consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

- 1. Delay, Matrix ..... mounted on P.W. Board P701
- 2. Power Supply ..... mounted on P.W. Board P801
- 3. Slide Volume (EFFECT) .. mounted on P.W. Board PL01
- 4. LED ..... mounted on P.W. Board PR01
- 5. Push Switch ..... mounted on P.W. Board PS01
- 6. Power Switch ..... mounted on P.W. Board PS51
- 7. Headphone Jack ..... mounted on P.W. Board PT01
- 8. Speaker Terminal ..... mounted on P.W. Board PW01
- 9. Slide Volume ..... mounted on P.W. Board PY01

2. TECHNICAL SPECIFICATIONS

Rated Power  
6 ohms EIAJ ..... 30 W  
DIN 8 ohms 1 kHz ..... 25 W  
Total Harmonic Distortion  
8 Ohms (Direct, 1 kHz 20 W) ..... 0.04%  
Input  
Line Sensitivity/Impedance ..... 270 mV/80 k ohms  
Frequency Response  
Direct (20 Hz ~ 35 kHz) ..... +0, -3 dB  
Dolby (100 Hz ~ 6 kHz) ..... +0, -3 dB  
Signal to Noise Ratio  
Direct (IHF-A) ..... 90 dB  
Dolby (CCIR/ARM, WTD) ..... 70 dB  
Output  
Line Level/Impedance ..... 540 mV/1.0 k ohms  
Dela Time ..... 15 - 30 msec (Adj.)  
Power Requirement  
N and T versions ..... 220/240V AC, 50/60 Hz  
Dimensions  
Panel Width ..... 320 mm  
Panel Height ..... 55 mm  
Depth ..... 260 mm  
Weight  
Unit alone ..... 3.0 kg

3. MEASUREMENT INSTRUMENTS REQUIRED FOR SERVICING

| ITEM                    | APPLICATIONS                                                           |
|-------------------------|------------------------------------------------------------------------|
| Distortion rate meter   | For distortion measurement                                             |
| Low frequency generator | signal source for sine wave and square wave                            |
| AC VTVM                 | For AC power voltage measurement                                       |
| Oscilloscope            | For waveform analysis, troubleshooting and ASO adjustment              |
| DC VTVM                 | For DC power voltage measurement                                       |
| AC wattmeter            | For monitoring the primary power consumption of amp                    |
| Power voltmeter         | For monitoring the primary voltage of amp                              |
| Sliduck                 | For adjusting the primary voltage of amp                               |
| Tester                  | For troubleshooting                                                    |
| Shorting plug           | For short-circuiting the amp input so that the noise is not introduced |

4. ADJUSTING METHOD

★ BEFORE STARTING ADJUSTMENT

- 1. Apply the AC primary voltage.
- 2. Set the volume to its minimum position.
- 3. Set the L and R calibration controls to their maximum positions.
- 4. Set the function switch to the DOLBY position.
- 5. Set the delay time control and effect volume control to their minimum positions.
- 6. Turn the power switch ON.

4.1 CALIBRATION ADJUSTMENT

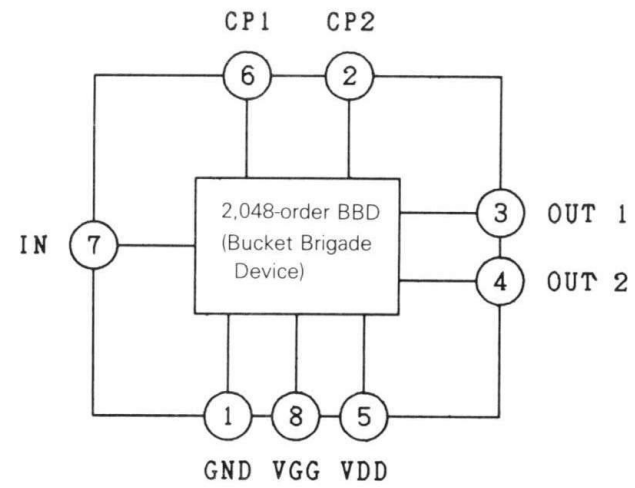
- 1. Connect an AC level meter between pin ① of IC: Q604 on the delay/matrix Po.W. Board (P701) and the ground.
- 2. Apply 1 kHz input to the L channel only.
- 3. Adjust RX14 semifixed resistor so that the LED lights.
- 4. Confirm that the LED lights in a range of 1 V ±0.5 dB when the input level is lowered and raised again to 1 V.
- 5. Adjust for the R channel in the same way as above.

4.2 DISTORTION ADJUSTMENT

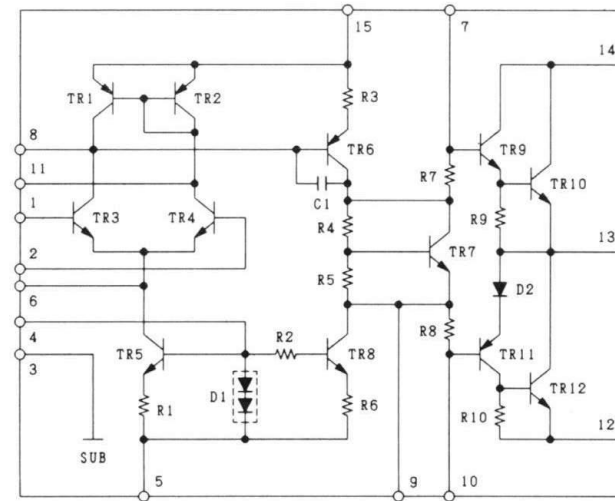
- 1. Connect a distortion meter between pin ① of IC: Q604 on the delay/matrix P.W. Board (P701) and the ground.
- 2. Apply 1 kHz input to the L channel only.
- 3. Raise the input level so that 1.6 V is present at pin ① of Q604.
- 4. Adjust R605 semifixed resistor so that the distortion becomes minimum in the above condition.

## 5. IC INTERNAL EQUIVALENT CIRCUITS

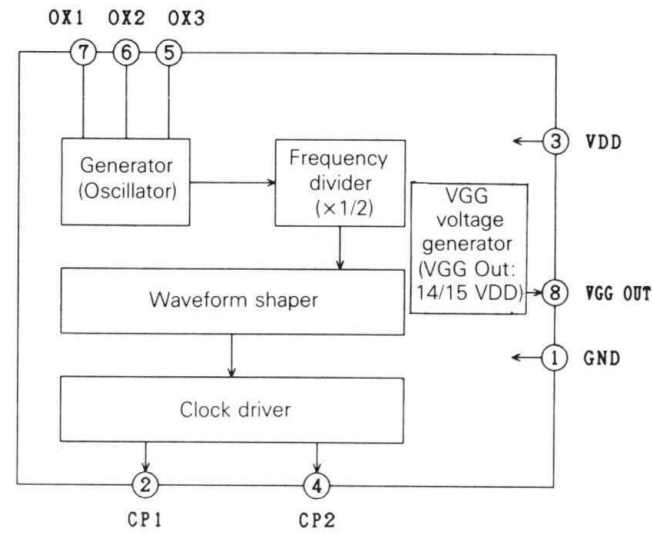
Q602 : MN3008



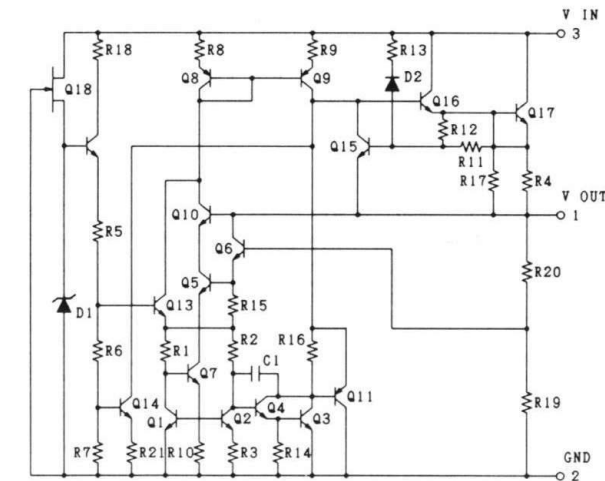
Q701 : STK-4024V



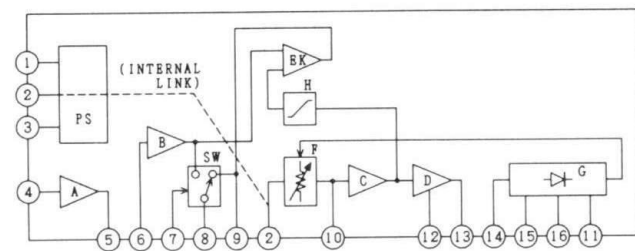
Q603 : MN3101



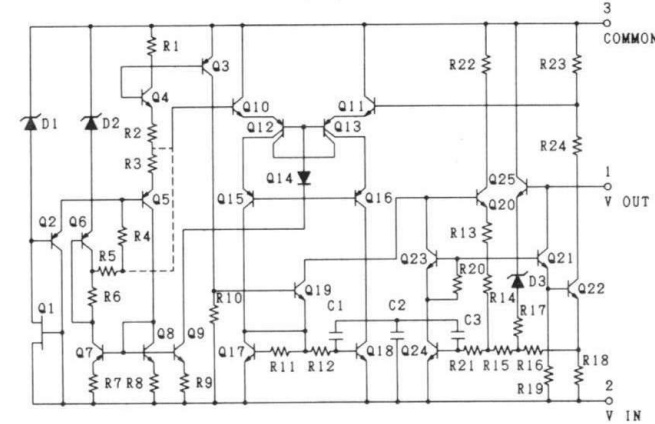
Q801 : NJM78M06A



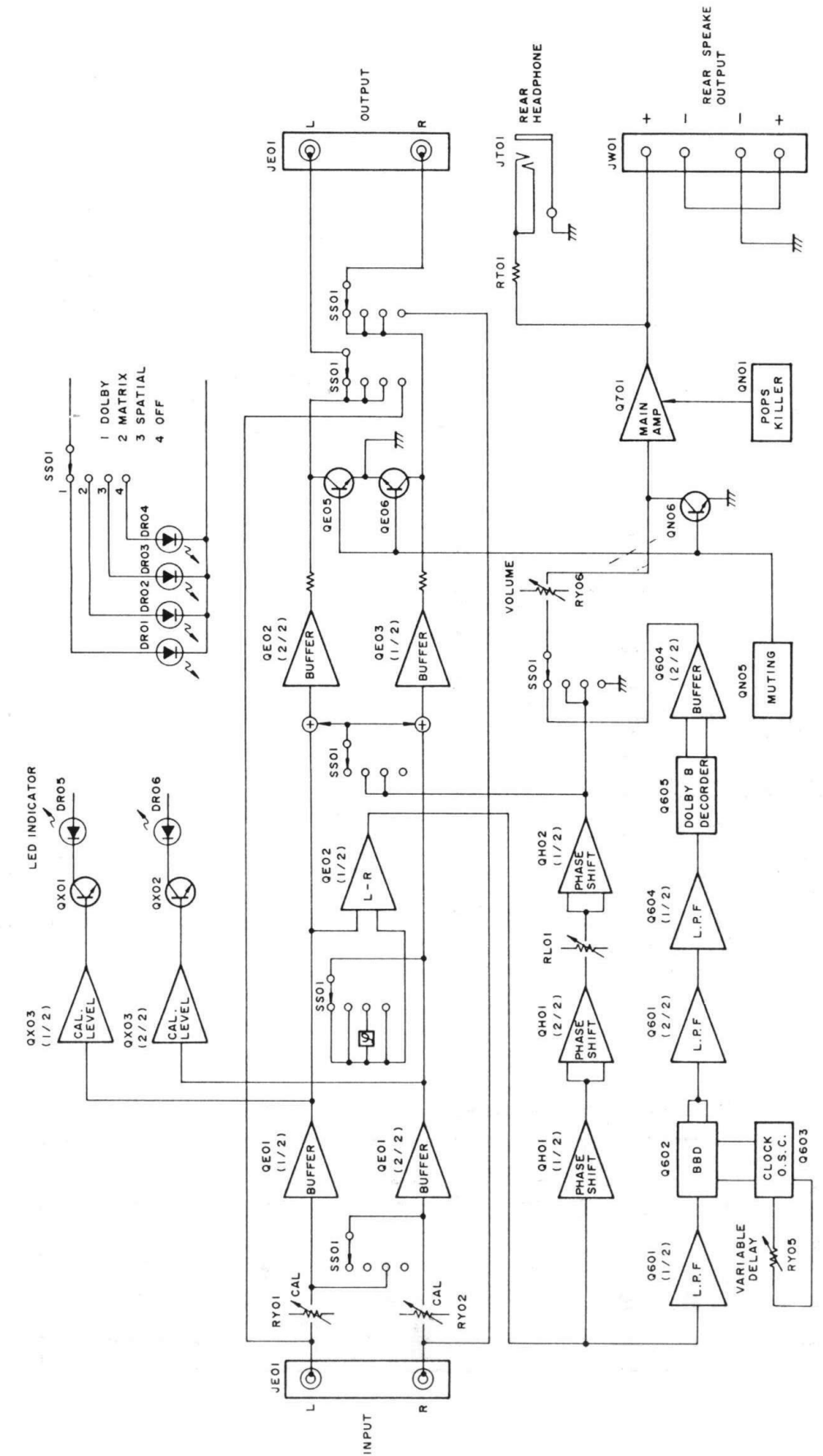
Q605 : TA7629P



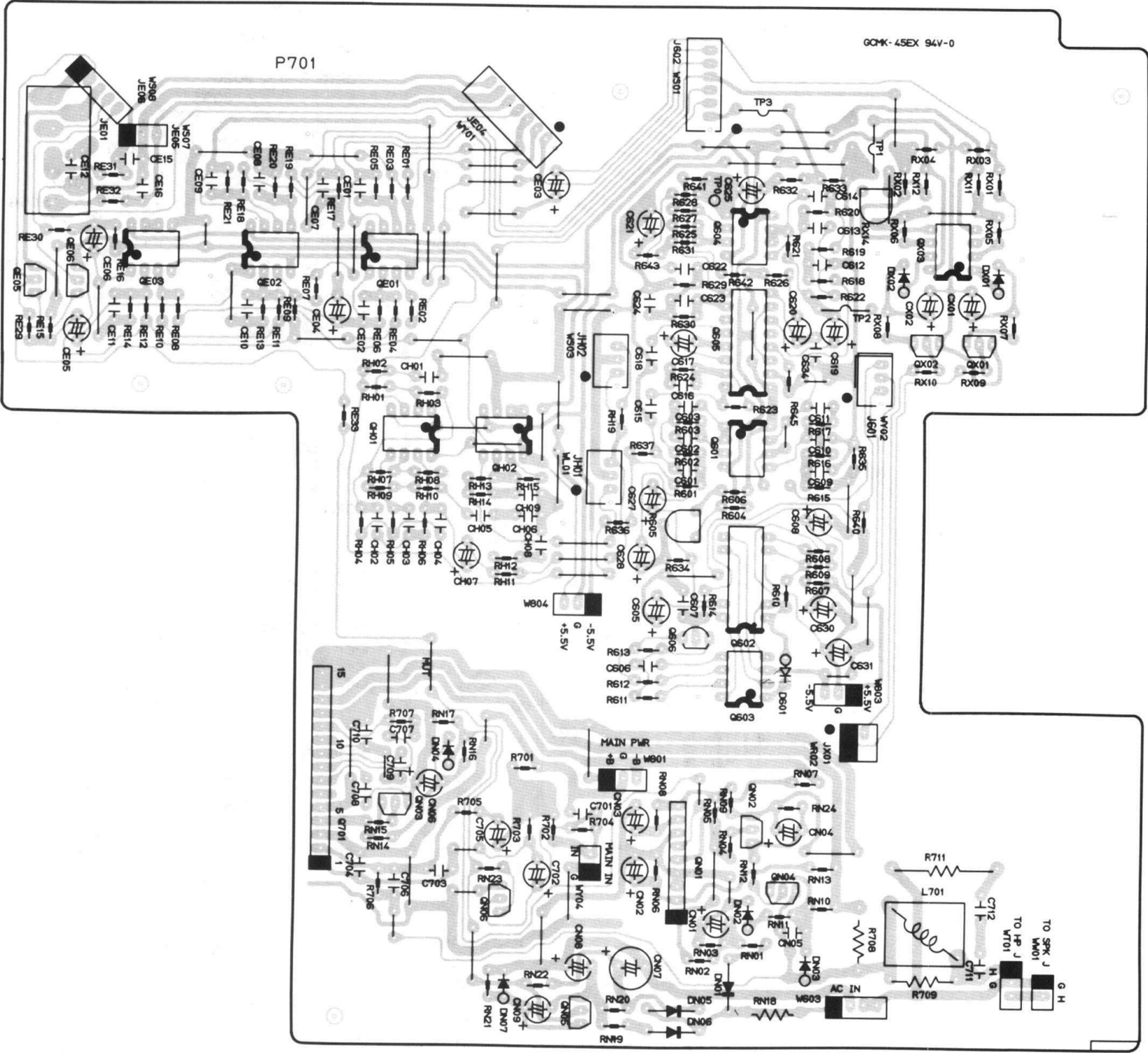
Q802 : NJM79M06A



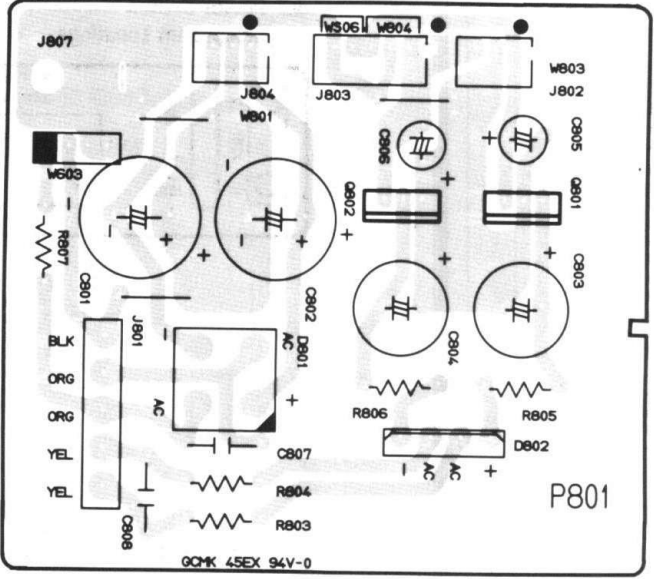
## 6. BLOCK DIAGRAM



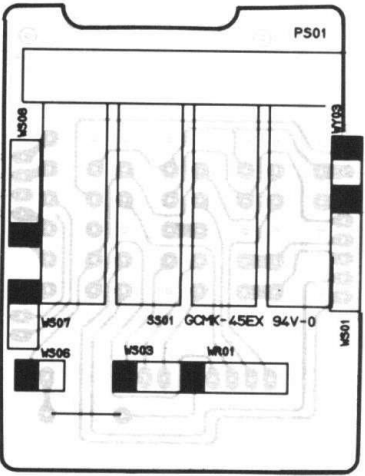
8.4 Delay/Matrix Assembly (P701) Component Locations



8.5 Power Supply Assembly (P801) Component Locations



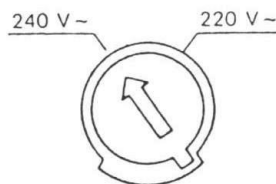
8.6 Push Switch Assembly (PS01) Component Locations



## 7. VOLTAGE CONVERSION

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

### VOLTAGE SELECTOR



(N, A) Version

#### CAUTION:

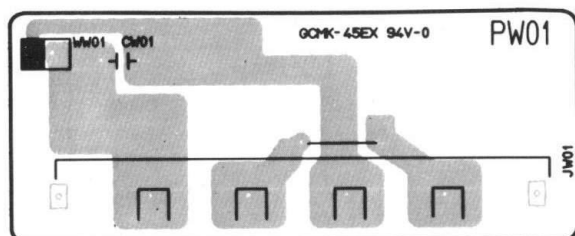
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE. DO NOT DISASSEMBLE THE VOLTAGE SELECTOR ABSOLUTELY.

#### NOTE ON SAFETY:

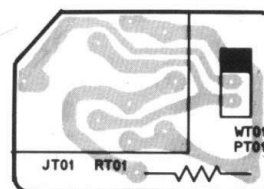
SYMBOL  $\triangle$  FIRE OR ELECTRICAL SHOCK HAZARD. ONLY ORIGINAL PARTS SHOULD BE USED TO REPLACE ANY PART MARKED WITH SYMBOL  $\triangle$ . ANY OTHER COMPONENT SUBSTITUTION (OTHER THAN ORIGINAL TYPE), MAY INCREASE RISK OF FIRE OR ELECTRICAL SHOCK HAZARD.

## 8. COMPONENT LOCATIONS (Component Side)

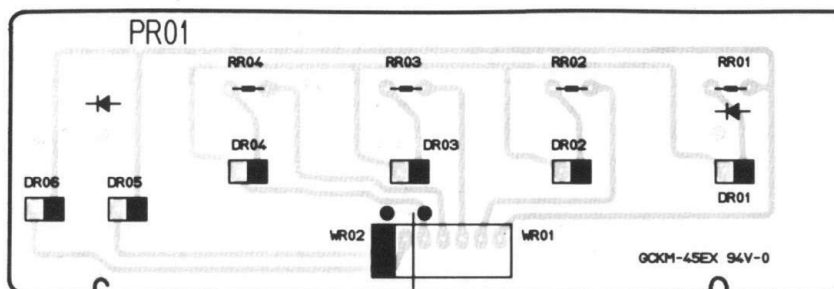
### 8.1 Speaker Terminal Assembly (PW01) Component Locations



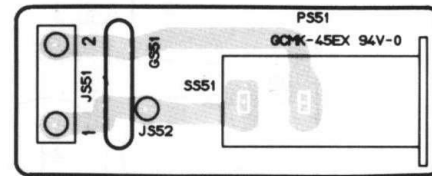
### 8.2 Headphone Jack Assembly (PT01) Component Locations



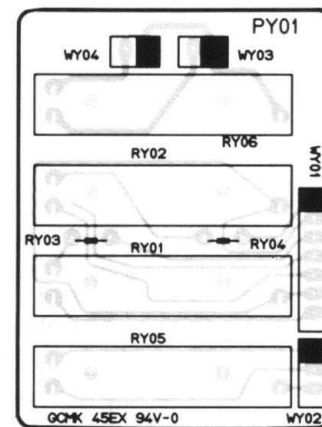
### 8.3 LED Assembly (PR01) Component Locations



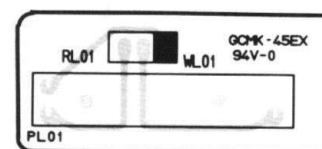
8.7 Power Switch Assembly (PS51)  
Component Locations



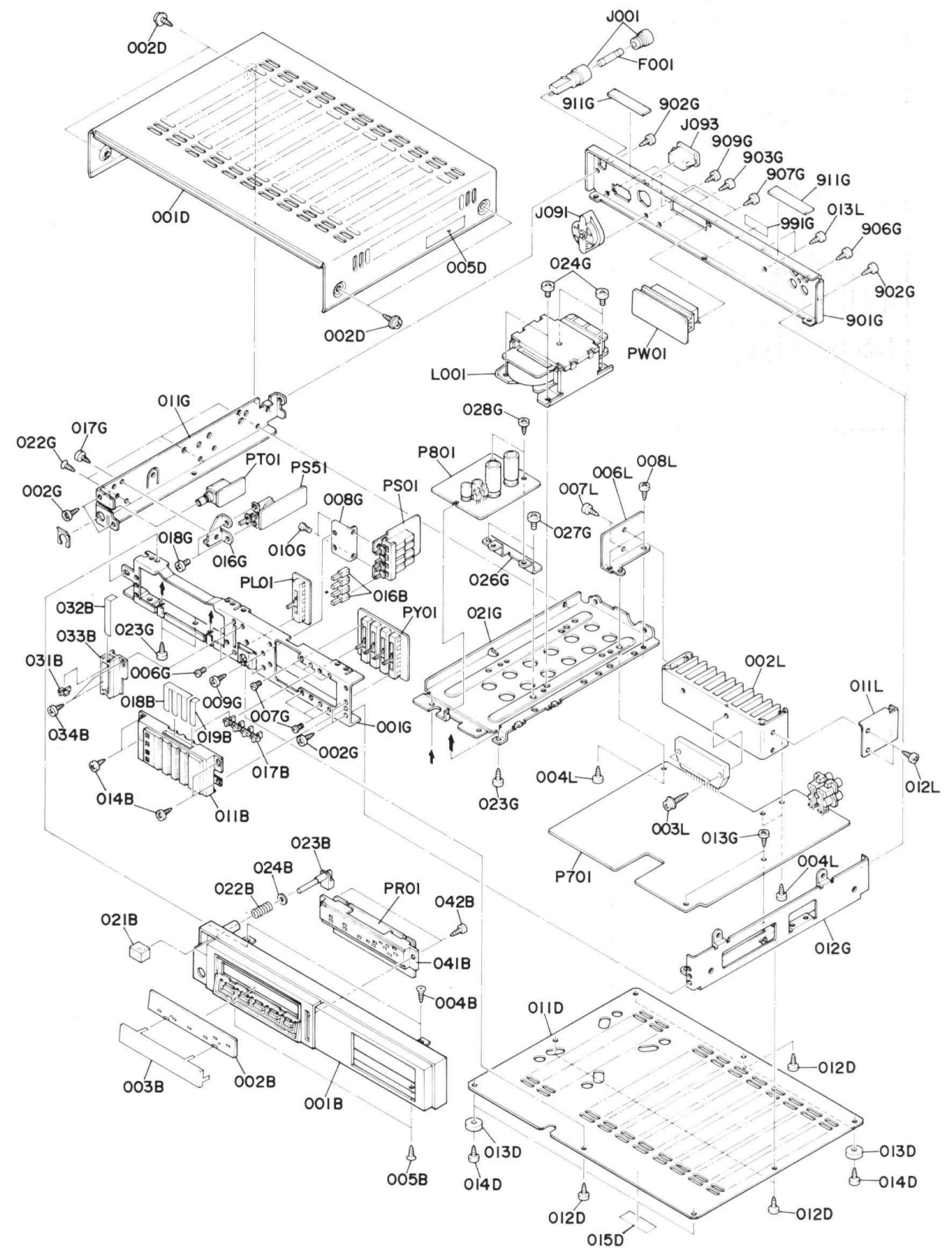
8.8 Slide Volume Assembly (PY01)  
Component Locations



8.9 Slide Volume (EFFECT) Assembly (PL01)  
Component Locations



## 9. EXPLODED VIEWS AND PARTS LIST



| REF.<br>DESIG. | PART NO.       | DESCRIPTION        |
|----------------|----------------|--------------------|
| 001B           | 4822 426 51348 | Front Panel        |
| 002B           | 4822 450 61348 | Window             |
| 003B           | 4822 454 12345 | Escutcheon         |
| 011B           | 4822 459 50545 | Bushing Assembly   |
| 016B           | 4822 412 20506 | Knob, Function     |
| 017B           | 4822 411 61231 | Knob, Slide VR     |
| 018B           | 4822 459 40549 | Mask, Slide VR     |
| 019B           | 4822 459 40551 | Mask, Slide VR     |
| 021B           | 4822 412 20069 | Knob, Power Switch |
| 022B           | 4822 492 42018 | Spring             |
| 023B           | 4822 404 20835 | Link               |
| 024B           | 4822 532 21182 | F. Washer          |
| 031B           | 4822 411 61231 | Knob, Effect VR    |
| 032B           | 4822 459 40551 | Mask, Effect VR    |
| 033B           | 4822 459 40548 | Bushing, Effect VR |
| 041B           | 4822 466 61303 | Spacer, LED Holder |
| 001D           | 4822 426 50878 | Lid, Top Cover     |
| 013D           | 4822 462 40877 | Leg                |
| △ F001         | 4822 253 30016 | Fuse 0.315A 250V   |
| △ J001         | 4822 256 30233 | Jack, Fuse Holder  |
| △ J091         | 4822 272 10236 | Voltage Selector   |
| △ J092         | 4822 265 20222 | Plug, AC Inlet     |
| △ L001         | 4822 146 21346 | Power Transformer  |
| 001T           | 4822 736 20011 | User Manual        |

10. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTOR  
R\*\*\*: (1) GD05 --- 140, Carbon film fixed resistor, ±5%, 1/4W  
R\*\*\*: (2) GD05 --- 160, Carbon film fixed resistor, ±5%, 1/6W  
① — Resistance value

Examples  
① Resistance value  
0.1Ω...001 10Ω...100 1kΩ...102 100kΩ...104  
0.5Ω...005 18Ω...180 2.7kΩ...272 680kΩ...684  
1Ω...010 100Ω...101 10kΩ...103 1MkΩ...105  
6.8Ω...068 390Ω...391 22kΩ...223 4.7MkΩ...475

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

C\*\*\*: CERAMIC CAP.  
(1) DD1 --- 370, Ceramic condenser  
Disc type  
Temp. coeff. P350 ~ N1000, 50V  
① ②  
Capacity value  
Tolerance

Examples  
① Tolerance (Capacity deviation)  
±0.25pF...0  
±0.5pF...1  
±5%...5  
\* Tolerance of COMMON PARTS handled here are as follows:  
0.5pF ~ 5pF...±0.25pF  
6pF ~ 10pF...±0.5pF  
12pF ~ 560pF...±5%  
② Capacity value  
0.5pF...005 3pF...030 100pF...101  
1pF...010 10pF...100 220pF...221  
1.5pF...015 47pF...470 560pF...561

C\*\*\*: CERAMIC CAP.  
(1) DK16 --- 300, High dielectric constant ceramic condenser  
Disc type  
Temp. chara. 2B4, 50V  
①  
Capacity value

Example  
② Capacity value  
100pF...101 1000pF...102 10000pF...103  
470pF...471 2200pF...222

C\*\*\*: ELECTROLY CAP. (  $\frac{\square}{\square}$  ), FILM CAP. (  $\frac{\square}{\square}$  )  
(1) EA --- 10, Electrolytic condenser  
One-way lead type, Tolerance ±20%  
① ②  
Dielectric strength  
Capacity value

Examples  
① Capacity value  
0.1μF...104 4.7μF...475 100μF...107  
0.33μF...334 10μF...106 330μF...337  
1μF...105 22μF...226 1100μF...108  
2200μF...228  
② Working voltage  
6.3V...006 25V...025  
10V...010 35V...035  
16V...016 50V...050

(2) DF15 --- 350, Plastic film condenser  
One-way type, Mylar ±5% 50V  
①  
Capacity value

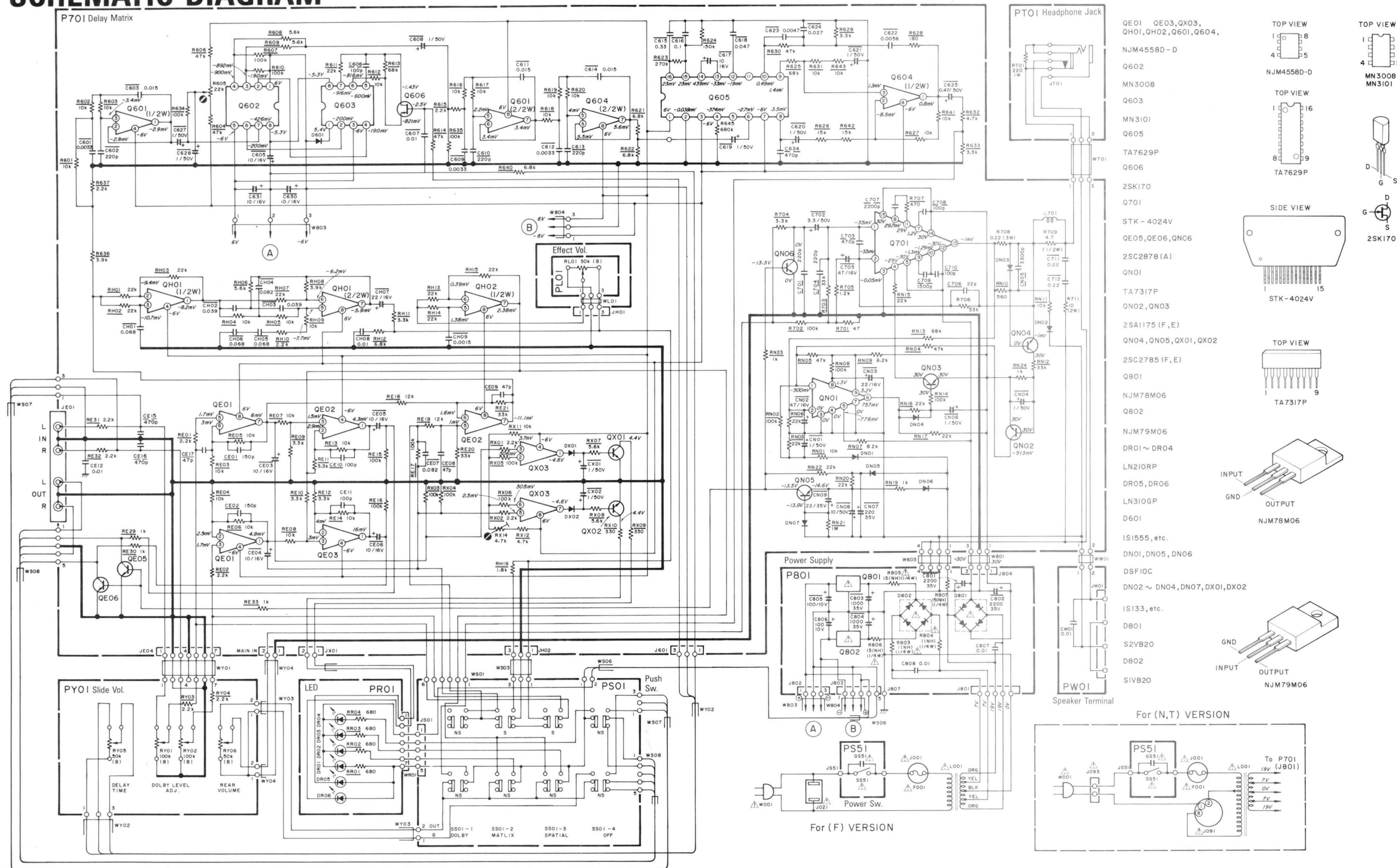
Examples  
① Capacity value  
0.001μF (1000pF)...102 0.1μF...104  
0.0018μF...182 0.56μF...564  
0.01μF...103 1μF...105  
0.015μF...153

| REF. DESIG. | PART NO.       | DESCRIPTION                                        |
|-------------|----------------|----------------------------------------------------|
|             |                | <b>P701-DELAY MATRIX CIRCUIT BOARD</b>             |
|             |                | <b>P701-CAPACITORS</b><br>Ceramic 0.01μF +80% —20% |
|             |                | <b>P701-RESISTORS</b><br>22KΩ, Trimming            |
| CE12        | 4822 122 32486 |                                                    |
| R605        | 4822 100 10922 |                                                    |
| R708        | 4822 113 80363 | 0.22Ω ±5% 3W                                       |
| R709        | 4822 116 52858 | 4.7Ω ±5% ½W                                        |
| R711        | 4822 111 90726 | 10Ω ±5% 2W                                         |
| RX14        | 4822 100 10783 | 4.7KΩ, Trimming                                    |
|             |                | <b>P701-SEMICONDUCTORS</b>                         |
| D601        | 4822 130 33305 | Diode 1SS133, etc.                                 |
| DN01        | 4822 130 32508 | Diode DSF10C                                       |
| DN02        | 4822 130 33305 | Diode 1SS133, etc.                                 |
| DN03        | 4822 130 33305 | Diode 1SS133, etc.                                 |
| DN04        | 4822 130 33305 | Diode 1SS133, etc.                                 |
| DN05        | 4822 130 32508 | Diode DSF10C                                       |
| DN06        | 4822 130 32508 | Diode DSF10C                                       |
| DN07        | 4822 130 33305 | Diode 1SS133, etc.                                 |
| DX01        | 4822 130 33305 | Diode 1SS133, etc.                                 |
| DX02        | 4822 130 33305 | Diode 1SS133, etc.                                 |
| Q601        | 4822 209 83631 | IC NJM4558D-D                                      |
| Q602        | 4822 209 81762 | IC MN3008                                          |
| Q603        | 4822 209 81763 | IC MN3101                                          |
| Q604        | 4822 209 83631 | IC NJM4558D-D                                      |
| Q605        | 4822 209 82826 | IC TA7629P                                         |
| Q606        | 4822 130 43553 | F.E.T. 2SK170                                      |
| Q701        | 4822 209 71308 | IC STK4024V                                        |
| QE01        | 4822 209 83631 | IC NJM4558D-D                                      |
| QE02        | 4822 209 83631 | IC NJM4558D-D                                      |
| QE03        | 4822 209 83631 | IC NJM4558D-D                                      |
| QE05        | 4822 130 43818 | Transistor 2SC2878(A)                              |
| QE06        | 4822 130 43818 | Transistor 2SC2878(A)                              |
| QH01        | 4822 209 83631 | IC NJM4558D-D                                      |
| QH02        | 4822 209 83631 | IC NJM4558D-D                                      |
| QN01        | 4822 209 83312 | IC TA7317P                                         |
| QN02        | 4822 130 42591 | Transistor 2SA1175(F, E)                           |
| QN03        | 4822 130 42591 | Transistor 2SA1175(F, E)                           |
| QN04        | 4822 130 42052 | Transistor 2SC2785(F, E)                           |
| QN05        | 4822 130 42052 | Transistor 2SC2785(F, E)                           |
| QN06        | 4822 130 43818 | Transistor 2SC2878(A)                              |
| QX01        | 4822 130 42052 | Transistor 2SC2785(F, E)                           |
| QX02        | 4822 130 42052 | Transistor 2SC2785(F, E)                           |
| QX03        | 4822 209 83631 | IC NJM4558D-D                                      |
|             |                | <b>P701-MISCELLANEOUS</b>                          |
| J601        | 4822 265 10062 | Jack, 3P                                           |
| J602        | 4822 265 10063 | Jack, 3P                                           |
| L701        | 4822 157 51739 | Coil, 1μH                                          |
| JE01        | 4822 265 30397 | Terminal, IN/OUT                                   |
| JE04        | 4822 265 10064 | Jack, 7P                                           |
| JH01        | 4822 265 10062 | Jack, 3P                                           |
| JH02        | 4822 265 10062 | Jack, 3P                                           |

| REF. DESIG. | PART NO.       | DESCRIPTION                                                                                                                           |
|-------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------|
|             |                | <b>P801-POWER SUPPLY CIRCUIT BOARD</b>                                                                                                |
|             |                | <b>P801-CAPACITORS</b><br>Ceramic 0.01μF ±10%<br>Ceramic 0.01μF ±10%                                                                  |
|             |                | <b>P801-RESISTORS</b><br>1Ω ±5% ¼W, Fusible<br>1Ω ±5% ¼W, Fusible<br>15Ω ±5% ¼W, Fusible<br>15Ω ±5% ¼W, Fusible<br>1Ω ±5% ¼W, Fusible |
| C807        | 4822 122 40545 |                                                                                                                                       |
| C808        | 4822 122 40545 |                                                                                                                                       |
| △ R803      | 4822 116 60307 |                                                                                                                                       |
| △ R804      | 4822 116 60307 |                                                                                                                                       |
| △ R805      | 4822 116 60417 |                                                                                                                                       |
| △ R806      | 4822 116 60417 |                                                                                                                                       |
| △ R807      | 4822 116 60307 |                                                                                                                                       |
|             |                | <b>P801-SEMICONDUCTORS</b>                                                                                                            |
| △ D801      | 4822 130 80907 | Diode S2VB20                                                                                                                          |
| △ D802      | 4822 130 33072 | Diode S1VB20                                                                                                                          |
| △ Q801      | 4822 209 83821 | IC NJM78M06A                                                                                                                          |
| △ Q802      | 4822 209 72332 | IC NJM79M06A                                                                                                                          |
|             |                | <b>P801-MISCELLANEOUS</b>                                                                                                             |
| J801        | 4822 265 10117 | Plug, 5P                                                                                                                              |
| J802        | 4822 265 10062 | Jack, 3P                                                                                                                              |
| J803        | 4822 265 10061 | Jack, 5P                                                                                                                              |
| J804        | 4822 265 10062 | Jack, 3P                                                                                                                              |
| J807        | 4822 265 40209 | Terminal, Earth                                                                                                                       |
|             |                | <b>PL01-SLIDE VOLUME CIRCUIT BOARD</b>                                                                                                |
| RL01        | 4822 105 10817 | Variable Resistor, 50KΩ(B); Effect                                                                                                    |
|             |                | <b>PR01-LED CIRCUIT BOARD</b>                                                                                                         |
| DR01        | 4822 130 33194 | L.E.D. LN210RP                                                                                                                        |
| DR02        | 4822 130 33194 | L.E.D. LN210RP                                                                                                                        |
| DR03        | 4822 130 33194 | L.E.D. LN210RP                                                                                                                        |
| DR04        | 4822 130 33194 | L.E.D. LN210RP                                                                                                                        |
| DR05        | 4822 130 33196 | L.E.D. LN310GP                                                                                                                        |
| DR06        | 4822 130 33196 | L.E.D. LN310GP                                                                                                                        |
| JR01        | 4822 267 30964 | Jack, 7P                                                                                                                              |
|             |                | <b>PS01-PUSH SWITCH CIRCUIT BOARD</b>                                                                                                 |
| SS01        | 4822 276 12573 | Push Switch                                                                                                                           |
|             |                | <b>PS51-POWER SWITCH CIRCUIT BOARD</b>                                                                                                |
| △ GS51      | 4822 122 40305 | Ceramic Cap. 0.01μF 400V                                                                                                              |
| JS51        | 4822 265 10133 | Plug, 2P                                                                                                                              |
| △ SS51      | 4822 276 12137 | Push Switch, Power                                                                                                                    |

| REF. DESIG. | PART NO.       | DESCRIPTION                                |
|-------------|----------------|--------------------------------------------|
|             |                | <b>PT01-HEADPHONE JACK CIRCUIT BOARD</b>   |
| RT01        | 4822 116 60246 | Resistor 220Ω ±5% 1W                       |
| JT01        | 4822 267 30785 | Jack, Headphone                            |
| JT02        | 4822 462 41037 | Stopper, Jack                              |
|             |                | <b>PW01-SPEAKER TERMINAL CIRCUIT BOARD</b> |
| CW01        | 4822 122 40516 | Ceramic Cap. 0.01μF +100% —0%              |
| JW01        | 4822 266 30195 | Terminal, 4P; Speaker                      |
|             |                | <b>PY01-SLIDE SWITCH CIRCUIT BOARD</b>     |
| RY01        | 4822 105 10805 | Variable Resistor, 100KΩ(B)                |
| RY02        | 4822 105 10805 | Variable Resistor, 100KΩ(B)                |
| RY05        | 4822 105 10817 | Variable Resistor, 50KΩ(B)                 |
| RY06        | 4822 105 10817 | Variable Resistor, 50KΩ(B)                 |

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



\* In case of ordering the common parts, please establish the correct parts number of 10 figures by the procedure "ASSIGNMENT OF COMMON PARTS CODES"

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

**Components and wiring are subject to change for modification without notice.**



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