# SERVICE MANUAL PM351

This service manual explains them by extracting the different specifications from those of the PM440, based on the PM440. For both electrical and mechanical information on the after-sales service which is not stated, all information is described in the PM440 service manual. The dispatch of the parts for after-sales service has to be referred to this service manual, with the first priority.
For this reason, please use this service manual with referring to the PM440 service manual, without fail.

Different Parts between MODEL PM351 and MODEL PM440.

| Page | REF. DESIG. | PM440 (N, A) | PM351 | DESCRIPTION |
|---|---|---|---|---|
| 10 | A | 262H248400 | 293H248400 | Front Panel Assembly |
| | 001B | 262H248010 | 293H248010 | Front Panel |
| | 002B | 261H105050 | ——— | Chassis, Front |
| | 004B | 261H265030 | 292H265010 | Indicator, Function |
| | 005B | 261H265010 | 261H265110 | Indicator, Balance |
| | 006B | 261H270010 | 261H270110 | Button, Tuner |
| | 007B | 261H270020 | 261H270120 | Button, Phono |
| | 008B | 261H270030 | 261H270130 | Button, Video/Aux |
| | 009B | 261H270040 | 261H270140 | Button, Tape Monitor |
| | 010B | 261H270050 | 261H270150 | Button, CD |
| | 021B | ——— | 261H105510 | Chassis (K) Front |
| | 001S | 262H801010 | 293H801010 | Packing Case |
| | 001T | 262H851310 | 293H851310 | User Manual |
| | 002T | 262H851320 | 293H851320 | User Manual, Spec. |
| | 003T | 262H856010 | 293H856010 | Circuit Diagram [N] |
| 11 | 017B | 262H270500 | 262H270510 | Button MM/MC |
| | 001F | 262H105020 | 293H105020 | Chassis, Main |
| | 003F | 416H057010 | 011T057010 | Leg |
| | 005F | 51706009U0 | 52040408A0 | H. Head Bolt. S, F |
| 12 | P701 | YK262H1610<br>ZZ262H1610 | YK262H1610<br>ZZ293H8610 | P.W. Board, Main<br>P.W. Board Assembly |
| | C411 | EA22701630 | EA10701630 | Elect 100μF 16V |
| | C412 | EA22701630 | EA10701630 | Elect 100μF 16V |
| | C417 | DF16333350 | DF16332350 | Film 0.0033μF ±10% |
| | C418 | DF16333350 | DF16332350 | Film 0.0033μF ±10% |
| | C421 | DF16472350 | ——— | Delete |
| | C422 | DF16472350 | ——— | Delete |
| | C425 | ——— | DK16821300 | Ceramic 820pF ±10% |
| | C426 | ——— | DK16821300 | Ceramic 820pF ±10% |
| | C427 | ——— | DK16471300 | Ceramic 470pF ±10% |
| | C428 | ——— | DK16471300 | Ceramic 470pF ±10% |
| | C809 | EA10701630 | ——— | Delete |
| | CK01 | EA10605030 | ——— | Delete |
| | CK04 | EA33505030 | EA33510030 | Elect 3.3μF 100V |
| | CK05 | EA47506330 | ——— | Delete |
| | R403 | GD05331140 | GD05100140 | 10Ω |
| | R404 | GD05331140 | GD05100140 | 10Ω |

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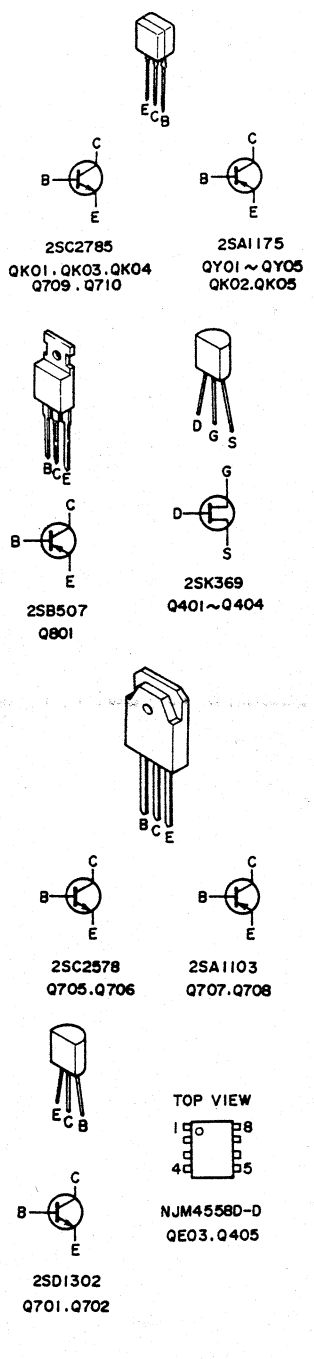
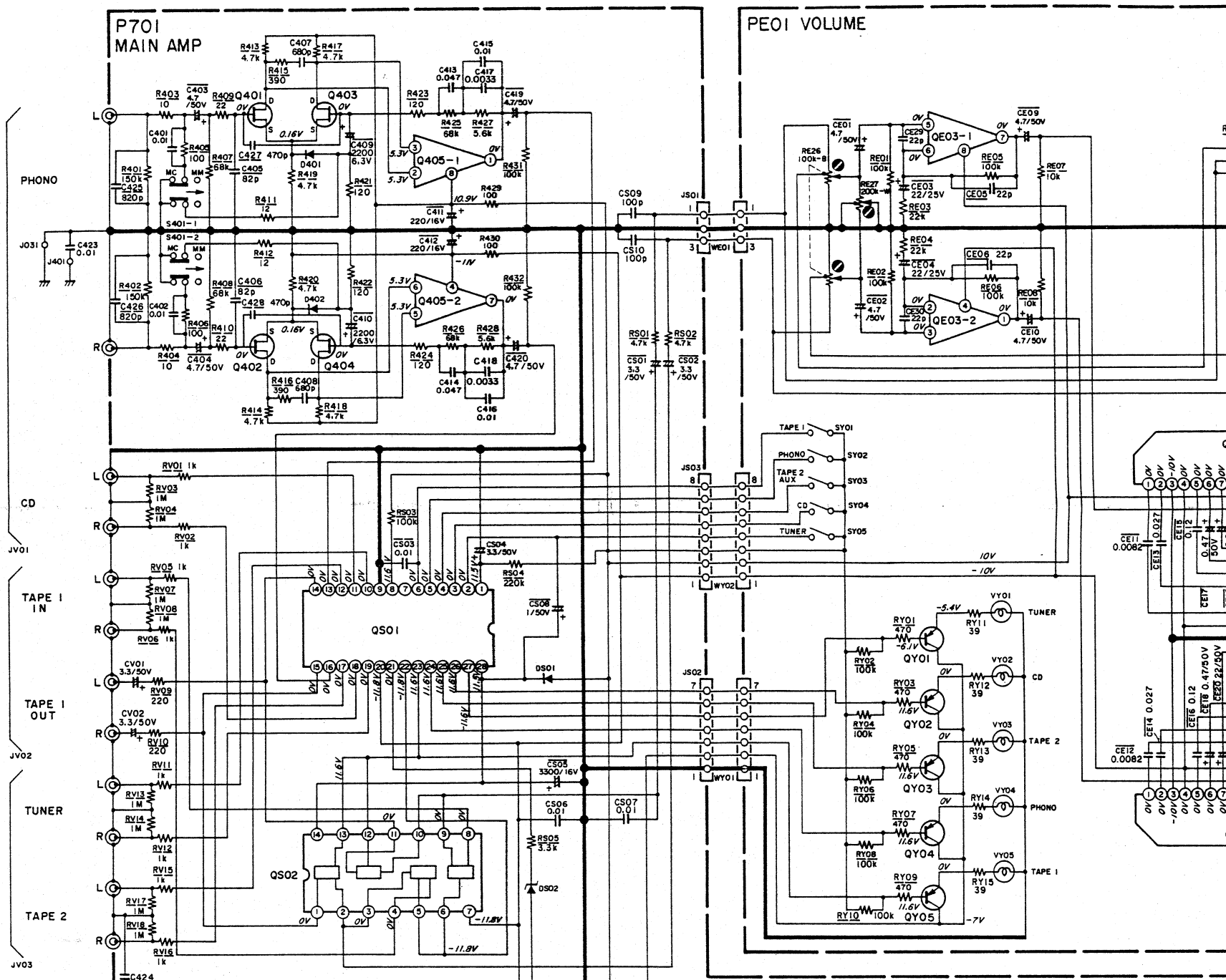
Different Parts between MODEL PM351 and MODEL PM440.

| Page | REF. DESIG. | PM440 (N, A) | PM351 | DESCRIPTION |
|---|---|---|---|---|
| 13 | R433 | GD05561140 | ———— | Delete |
| | R434 | GD05561140 | ———— | Delete |
| | R801 | GA05102030 | GP05102050 | 1KΩ 5W |
| | R802 | GA05821050 | GP05821050 | 820Ω 5% |
| | R737 | ———— | NF02100140 | 10Ω, Fusible |
| | R738 | ———— | NF02100140 | 10Ω, Fusible |
| | R740 | ———— | GD05223140 | 22KΩ |
| | D707 ~ D710 | HD20011010 | HD20022030 | Diode DSF-10C |
| | D806 | HD30026020 | HD30045010 | Zener HZ9C1-L |
| | DK01 | HD20001000 | ———— | Delete |
| | DK02 | HD30023010 | ———— | Delete |
| 14 | ⚠ Q703 | HC10097060 | HC10114060 | IC μPC-1270H |
| | ⚠ Q704 | HC10097060 | HC10114060 | IC μPC-1270H |
| | ⚠ Q705 | HT325802A0 | HT331822A0 | Transistor 2SC3182 (R, O) |
| | ⚠ Q706 | HT325802A0 | HT331822A0 | Transistor 2SC3182 (R, O) |
| | ⚠ Q707 | HT111052A0 | HT112652A0 | Transistor 2SA1265 (R, O) |
| | ⚠ Q708 | HT111052A0 | HT112652A0 | Transistor 2SA1265 (R, O) |
| | ⚠ Q801 | HT205072Q0 | HT206472F0 | Transistor 2SB647 (C, D) |
| | Q802 ~ Q804 | ———— | FU10215010 | Rrolector Unit 1CPF-25 |
| | QK03 | HT327852B0 | HT314002A0 | Transistor 2SC1400 (D, E) |
| | JV01 ~ JV03 | YT02040470 | YT02040500 | Terminal, RCA Jack |
| | PE01 | YK262H1620<br>ZZ262H1620 | YK262H1620<br>ZZ293H8620 | P.W. Board, Volume<br>P.W. Board, Assembly |
| | CE07 | EA22601630 | ———— | Delete |
| | CE08 | EA22601630 | ———— | Delete |
| | CE11 | DF16472350 | DF15822350 | Film 8200pF ±5% |
| | CE12 | DF16472350 | DF15822350 | Film 8200pF ±5% |
| | CE13 | DF16183350 | DF15273350 | Film 0.027μF ±5% |
| | CE14 | DF16183350 | DF15273350 | Film 0.027μF ±5% |
| | CE15 | DF16823350 | DF15124350 | Film 0.12μF ±5% |
| | CE16 | DF16823350 | DF15124350 | Film 0.12μF ±5% |
| | CE17 | EA33405030 | EJ47405010 | Elect 0.47μF 50V |
| | CE18 | EA33405030 | EJ47405010 | Elect 0.47μF 50V |
| | CE19 | EA10505030 | EJ22505010 | Elect 2.2μF 50V |
| | CE20 | EA10505030 | EJ22505010 | Elect 2.2μF 50V |
| | CE23 | DF16183350 | DF15183350 | Film 0.018μF ±5% |
| | CE24 | DF16183350 | DF15183350 | Film 0.018μF ±5% |
| | CE27 | DF16683350 | DF15104350 | Film 0.1μF ±5% |
| | CE28 | DF16683350 | DF15104350 | Film 0.1μF ±5% |
| | RE09 | GG05101140 | ———— | Delete |
| | RE10 | GG05101140 | ———— | Delete |
| | RY11 ~ RY15 | ———— | GG05390140 | 39Ω |
| 15 | PX01 | YK262H1660<br>ZZ262H1660 | YK262H1660<br>ZZ293H8660 | P.W. Board, Speaker Lamp<br>P.W. Board Assembly |
| | RX01 | ———— | GA05331010 | 330Ω 1W |
| | RX02 | ———— | GA05331010 | 330Ω 1W |

## SCHEMATIC DIAGRAM



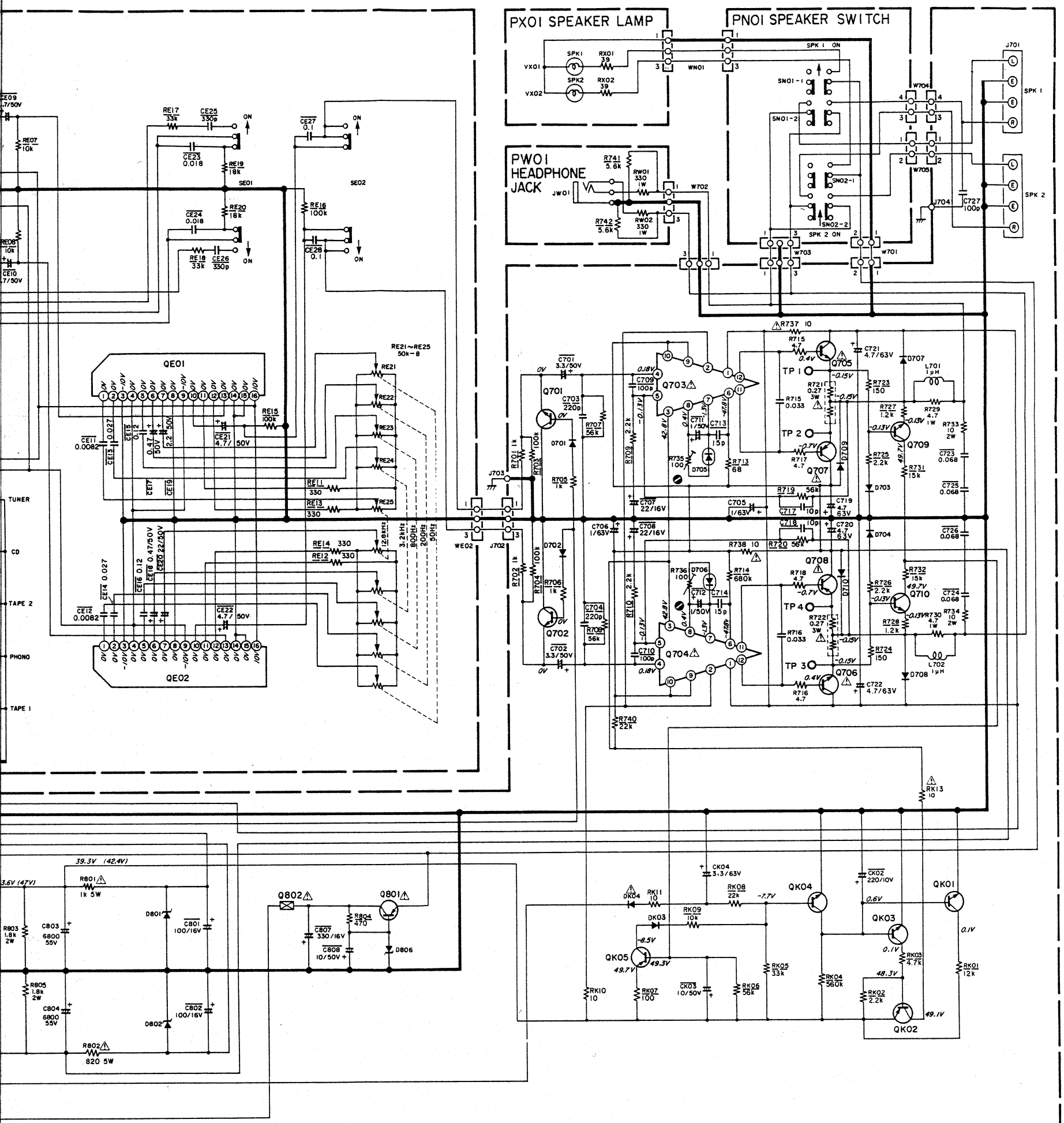

| | | |
|---|---|---|
| F001 | FS10140800 | FUSE 1.4A |
| J001 | YJ08000290 | JACK FUSE HOLDER |
| J091 | BY05080050 | VOLTAGE SELECTER |
| J093 | YP04005080 | PLUG AC INLET |
| L001 | TS18617010 | POWER TRANSF |
| J701 | YT03080020 | TERMINAL SPEAKER |
| JV01 | YT02040500 | TERMINAL RCA JACK |
| JV02 | YT02040500 | TERMINAL RCA JACK |
| JV03 | YT02040500 | TERMINAL RCA JACK |
| L701 | LL23905120 | COIL 1 mH |
| L702 | LL23905120 | COIL 1 mH |
| S401 | SP04010470 | PUSH SWITCH PHONO/MM, MC |
| RE21 | | |
| ≀ | RS05030520 | VARIABLE 50 KΩ (B) |
| RE25 | | |
| RE26 | RM01040840 | VARIABLE 100 KΩ (B) |
| RE27 | RX02040080 | VARIABLE 200 KΩ (W) |

| | | |
|---|---|---|
| SE01 | SP02011090 | PUSH SWITCH LOUDNESS/LOW FILTER |
| SE02 | SP02011090 | PUSH SWITCH LOUDNESS/LOW FILTER |
| SY01 | | |
| ≀ | SP01010800 | PUSH SWITCH SELECTOR |
| SY05 | | |
| VY01 | | |
| ≀ | IN10080620 | LAMP |
| VY05 | | |
| SN01 | SP04020440 | PUSH SWITCH SPEAKER - 1 |
| SP01 | SP01010650 | PUSH SWITCH POWER |
| CP01 | DK18103840 | CERAMIC 0.01µF |
| JW01 | YJ01001790 | JACK HEADPHONE |
| VX01 | IN10080620 | LAMP 8V 50 mA |
| VX02 | IN10080620 | LAMP 8V 50 mA |
| W001 | ZC01805010 | AC POWER CORD [N] |
| W001 | ZC02006020 | AC POWER CORD [A] |

**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 f**

# Model PM351




QE01, QE02
HC10108030
STK-6325A

QE03, Q405
HC10008090
NJM4558D-D

QY01~QY05, QK02, QK05
HT111752B0
2SA1175

QK01, QK04, Q709, Q710
HT327852B0
2SC2785(J,H)

QS01
HC10110030
LC7815H

QS02
HC406603C0
LC4066B-H

Q401~Q404
HF203691G0
2SK369(G,R)

Q701, Q702
HT413022B0
2SD1302(S,T)

Q703, Q704
HC10114060

Q705, Q706
HT331822A0
2SC3182(R,O)

Q707, Q708
HT112652A0
2SA1265(R,O)

Q801
HT206472F0
2SB647(C,D)

Q802~Q804
FU10215010
1CP-F-25 1A

QK03
HT314002A0
2SC1400(D,E)

DS01, D701~D704
HD20001000
1S1555

DK03
HD20002210
1S2472

DK04, D707~D710, D803, D804
HD20022030
DSF-10C

D705, D706
HV00009080
STV3H(O,Y)

D805
HD20008290
S4VB

D806, DS02
HD30045010
HZ9C1-L(8.9-9.3V)

D801, D802
HD30038010
HZ9C1L(10.9-11.3V)

SS/LOW FILTER
SS/LOW FILTER
)R
R-1

"SERVICE INFORMATION IS FOR USE BY QUALIFIED RERSONNEL ONLY –
ANY MISADJUSTMENT OR MISALIGNMENT MAY BE TREATED AS A NON-WARRANTY
REPAIR BY ANY MARANTZ SERVICE CENTRE –"

**Kind of Common Parts**

**RESISTOR**

R*** (1) GD05 - - - 140, Carbon film fixed resistor, ±5% 1/4W
R*** (2) GD05 - - - 160, Carbon film fixed resistor, ±5% 1/6W

C*** : **CERAMIC CAP.**

(1) DD1 - - - - 370, Ceramic condenser, disc type (titan condenser) Temp. coeff. P350 ~ N1000 50V

C*** : **CERAMIC CAP.**

(1) DK16 - - - 300, High dielectric constant ceramic condenser, disc type (titan variable) Temp. chara. 2B4 50V

C*** : **ELECTROLY CAP. ( ⧧ ) / FILM CAP. ( ⥤ )**

(1) EA - - - - - - 10, Electrolytic condenser, one-way lead type, tolerance ±20%
(2) DF15 - - - 350, Plastic film condenser, one-way type, Mylar, ±5% 50V

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

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

# TECHNICAL SPECIFICATIONS

## AUDIO SECTION

**POWER OUTPUT PER CHANNEL**

| | |
|---|---|
| **DIN 4 OHMS** | **70 W** |
| **RMS 4 OHMS** | **65 W** |
| **DIN 8 OHMS** | **60 W** |
| **RMS 8 OHMS** | **50 W** |
| **TOTAL HARMONIC DISTORTION AT RMS 8 OHMS** | **0.05%** |
| **I.M. DISTORTION** | **0.05%** |
| **DAMPING FACTOR 8 OHMS (1 kHz)** | **55** |

**MM CARTRIDGE INPUT**

| | |
|---|---|
| Frequency Response (RIAA) 20 Hz – 20 kHz) | ±0.5 dB |
| Signal-to-Noise Ratio | 80 dB |
| Input Impedance | 47 k ohms |
| Input Capacitance | 100 pF |
| Input Sensitivity | 2.5 mV |

**MC CARTRIDGE INPUT**

| | |
|---|---|
| Input Sensitivity | 250 $\mu$V |
| Input Impedance | 100 ohms |

**AUX. INPUT**

| | |
|---|---|
| Input Impedance | 25 k ohms |
| Input Sensitivity | 150 mV |
| Frequency Response (±2 dB) | 10 Hz – 50 kHz |
| Signal-to-Noise Ratio | 93 dB |

**OUTPUT VOLTAGE**

| | |
|---|---|
| Tape Out (Input 7.75 mV) | 417 mV |

**OUTPUT IMPEDANCE**

| | |
|---|---|
| Tape Out | 300 ohms |

**GENERAL**

| | |
|---|---|
| Power Requirements | 110/120/220/240V AC, 50/60 Hz |
| Power Consumption at Rated Output, both Channels Operating | 240 W |
| Dimensions | |
| Panel Width | 416 mm |
| Panel Height | 85 mm |
| Depth | 225 mm |
| Weight | |
| Unit Alone | 5.3 kg |

Specifications and appearance are subject to change for modification without notice.