## 2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model PM-84II Stereo Amplifier.

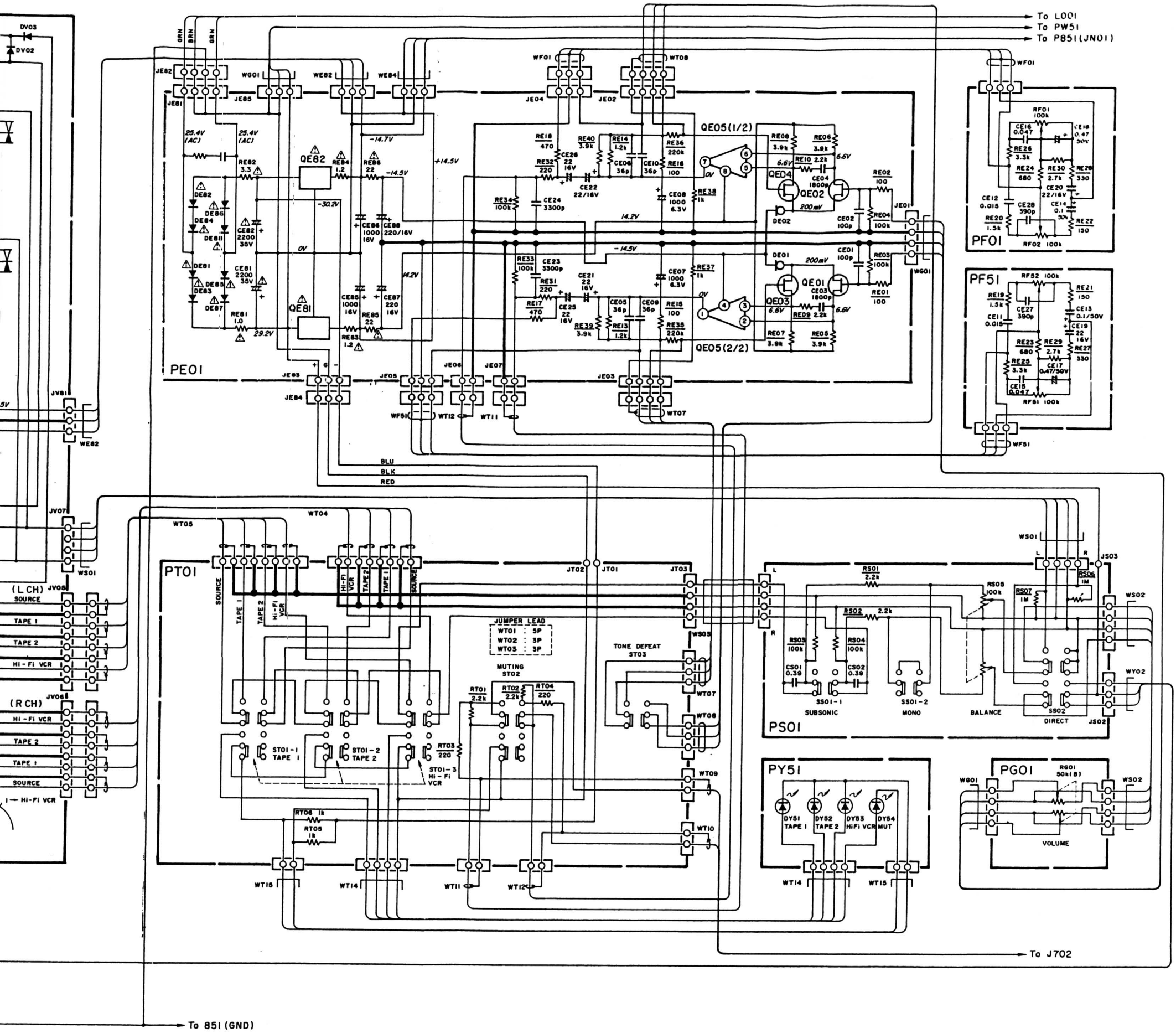
| Item | Use |
|---|---|
| Distortion Analyzer | Distortion measurements |
| Audio Oscillator | Sinewave and squarewave signal source |
| AC VTVM | Voltage measurements (AC) |
| Oscilloscope | Waveform analysis and trouble shooting and ASO alignment |
| Circuit Tester | Trouble shooting |
| DC VTVM | Voltage measurements (DC) |
| AC Wattmeter | Monitors primary power to amplifier |
| Line Voltmeter | Monitors potential of primary power to amplifier |
| Variable Autotransformer (0 ~ 140V AC, 10A) | Adjust level of primery power to amplifier |
| Shorting Plug | Shorts amplifier input to eliminate noise pickup |

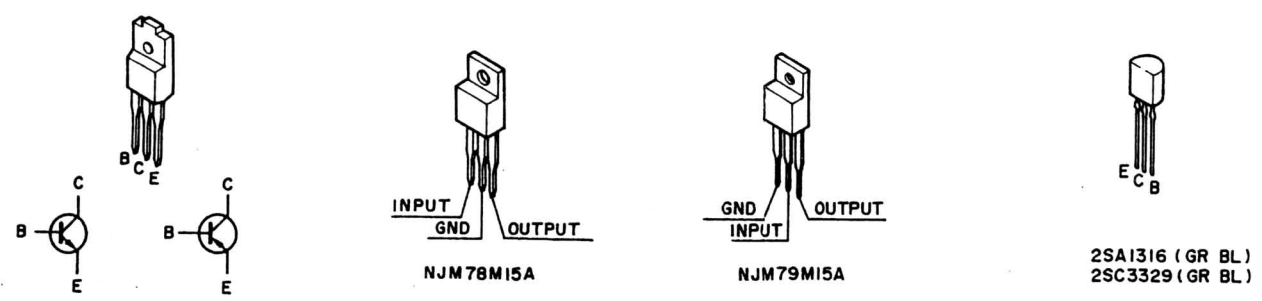
## 3. ADJUSTMENT PROCEDURE

**Idling Adjustment**

1. With no signal and no load, short-circuit TP-5 and TP-6 on the P.W. Board (P701).
2. Connect the digital voltmeter at the DC range to the center of the RL09 and RL13 (RL10 and RL14) cement resistors on the P.W. Board (PL01) and adjust R727 (R728) on the P.W. Board (P701) for a voltage of 40 mV.
3. Open TP-5 and TP-6 and adjust R725 (R726) on the P.W. Board (P701) so that the digital voltmeter reads 112 mV.
4. Next short-circuit TP-6 and TP-7 and adjust R723 (R724) on the P.W. Board (P701) so that the digital voltmeter reads 250 mV.
5. Perform the same adjustment for the right channel using the parts indicated in parentheses.

# Marantz PM-84 II




2SC3298 (O,Y) 2SA1306 (O,Y) NJM78M15A NJM79M15A 2SA1316 (GR BL) 2SC3329 (GR BL)

**"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

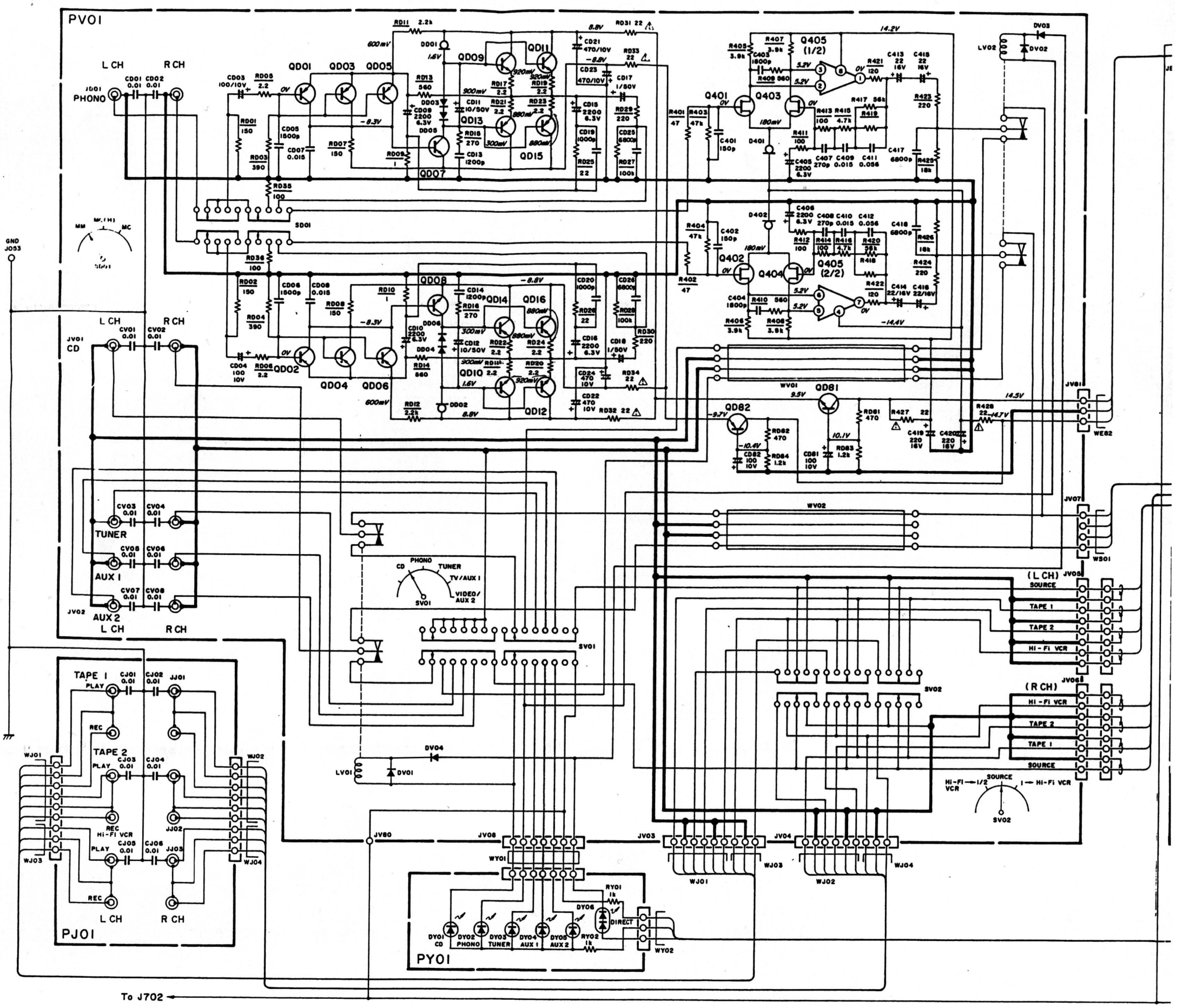
C*** : **CERAMIC CAP.**
(1) DD1 - - - - 370, Ceramic condenser, disc type (titan condenser) Temp. coeff. P350 ~ N1000 50V

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"

# Marantz PM-84 II




Q401～Q404
QE01～QE04
HF20369180
2SK369BL

Q405,QE05
HC10026090
NJM2041DD

QD01～QD06,QD13～QD16
HT113162A0
2SA1316(GR,BL)

QD07～QD12
HT333292A0
2SC3329(GR,BL)

QD81
HT332982D0
2SC3298(O,Y)

QD82
HT113062D0
2SA1306(O,Y)

QE81
HC38515090
NJM78M15A

QE82
HC39515090
NJM79M15A

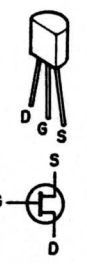
D401,D402
DD01,DD02,DE01,DE02
HD60001160
C,R,D/4.5MA

DD03～DD06,DV01～DV04
HD20002000
1SS133

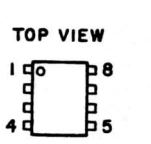
DE81～DE88
HD20022030
DSF-10C

DY01～DY05
DY51～DY53
HI10048320
LED GL-3HD7

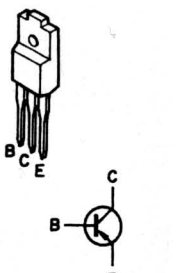
DY06,DY54
HI10037320
L,E,D LT-9200N




2SK369BL




NJM2041DD




2SC3298(O,Y) 2SA1306(O,

| | | |
|---|---|---|
| F001 | FS10400850 | FUSE [N, A] |
| | FS10400700 | FUSE [E] |
| L001 | TS60508160 | POWER TRANSF. [N, A] |
| | TS60508170 | POWER TRANSF. [E] |
| S001 | SP01010820 | PUSH SWITCH POWER |
| S002 | SR00050220 | ROTARY SWITCH FUNCTION |
| S003 | SR00030120 | ROTARY SWITCH REC MODE |
| S004 | SR00030120 | ROTARY SWITCH PHONO |
| RF01 | RK01030630 | VARIABLE 10KΩ TONE |
| RF02 | RK01030630 | VARIABLE 10KΩ TONE |
| RF51 | RK01030630 | VARIABLE 10KΩ TONE |
| RF52 | RK01030630 | VARIABLE 10KΩ TONE |
| RG01 | RM05031210 | VARIABLE 50KΩ MASTER |
| RS05 | RM01040890 | VARIABLE 100KΩ BALANCE |

| | | |
|---|---|---|
| SS01 | SP04020470 | PUSH SWITCH SUBSONICE |
| SS02 | SP04010500 | PUSH SWITCH CD DIRECT |
| ST01 | SP04040360 | PUSH SWITCH TAPE 1, 2 |
| ST02 | SP04010480 | PUSH SWITCH MUTING |
| ST03 | SP02011490 | PUSH SWITCH TONE DEFECT |
| SD01 | SS04030260 | SLIDE SWITCH |
| LV01 | LY20240230 | RELAY CD DIRECT |
| LV02 | LY20240230 | RELAY PHONO DIRECT |
| SV01 | SS04060050 | SLIDE SWITCH |
| SV02 | SS06030220 | SLIDE SWITCH |
| LW01 | SY20240150 | RELAY SPEAKER |
| LW02 | SY20240150 | RELAY SPEAKER |
| SC01 | SP02020860 | PUSH SWITCH SPEAKER |
| R723 ～ R728 | RA02230760 | TRIMMING 22KΩ |

**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 modificatio**