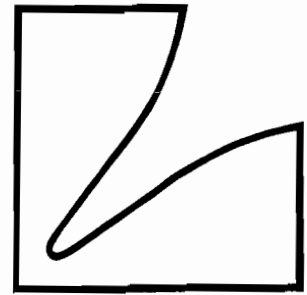


SERVICE MANUAL



Compact Disc Player

D-117



Contents

| | |
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Specifications

CD SECTION

| | |
|--|---|
| Systems | Optical (Compact Disc System) |
| Quantizing Bit Number | 16 Bit Linear System |
| Channels | 2 Channels, Stereo |
| Pick-up | Semiconductor Laser Pick-up |
| Output Voltage | 2V±1dB |
| Frequency Response | 4~20kHz±1dB |
| T.H.D (1kHz) | 0.008% |
| S/N | 91dB |
| Dynamic Range | 88dB |
| Separation (1kHz) | 82dB |
| Head-phone Output Voltage (1kHz, 10dB/8 ohm) | 300mV |
| Power Supply | AC100V, 50/60Hz (JA Model only) AC120/220/240V, 50Hz (AD Model only) AC120V, 60Hz (UZ and UQ Model only) |
| Power Consumption | 15W |
| Semiconductors | 24 IC's, 26 Transistors, 2 FETs, 10 Diodes, 8 Zener Diodes (JA, AD and UZ Model only) 24 IC's, 25 Transistors, 2 FETs, 10 Diodes, 8 Zener Diodes (UQ Model only) |
| Dimension (W × H × D) | 438 × 85 × 314mm |
| Weight | 5kg |

COMPACT DISC

| | |
|----------------------------|------------------|
| Track Pitch | 1.6 μ m |
| Modulation Frequency | 44.1kHz |
| Transfer Rate | 4.3218M Bit/sec. |
| Dimension | 120 × 1.2mm |

NOTE: Due to continuing product improvement, specifications and design are subject to change without notice.

Parts Locations and Disassembly Instructions

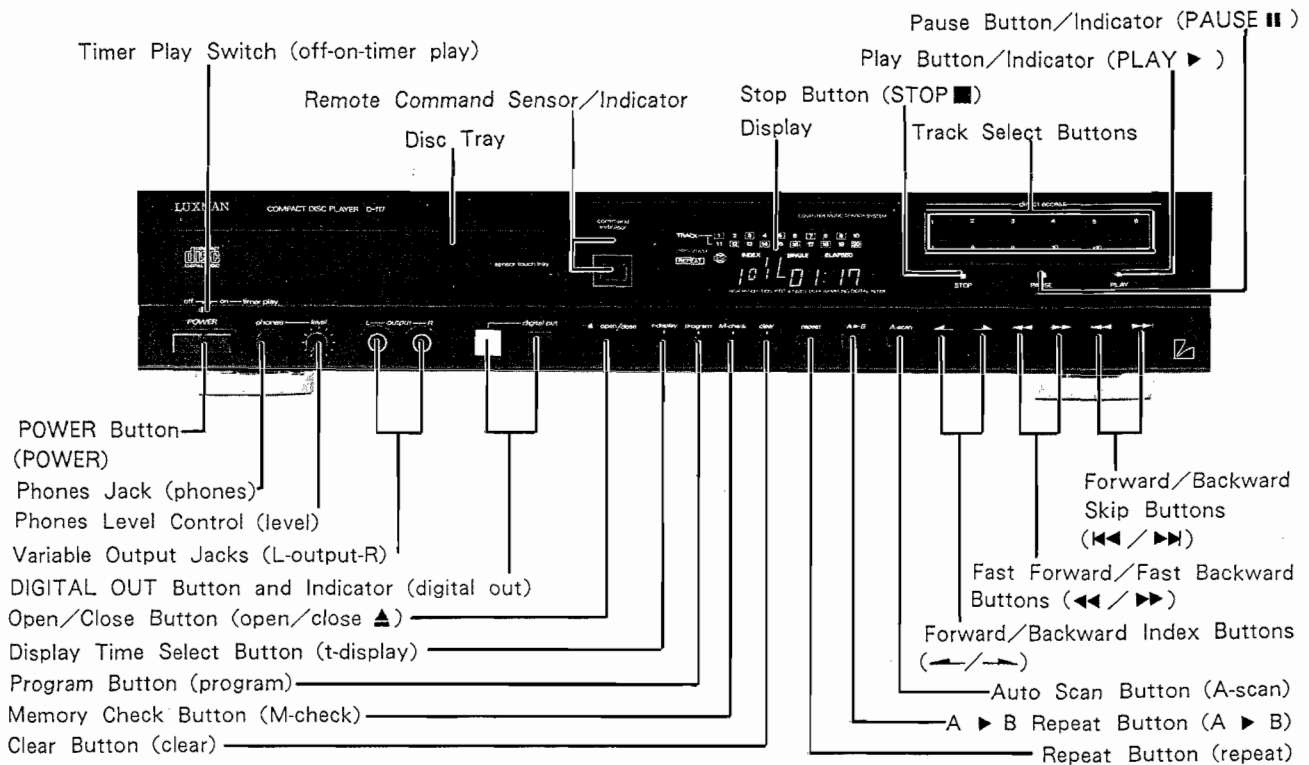


Figure 1

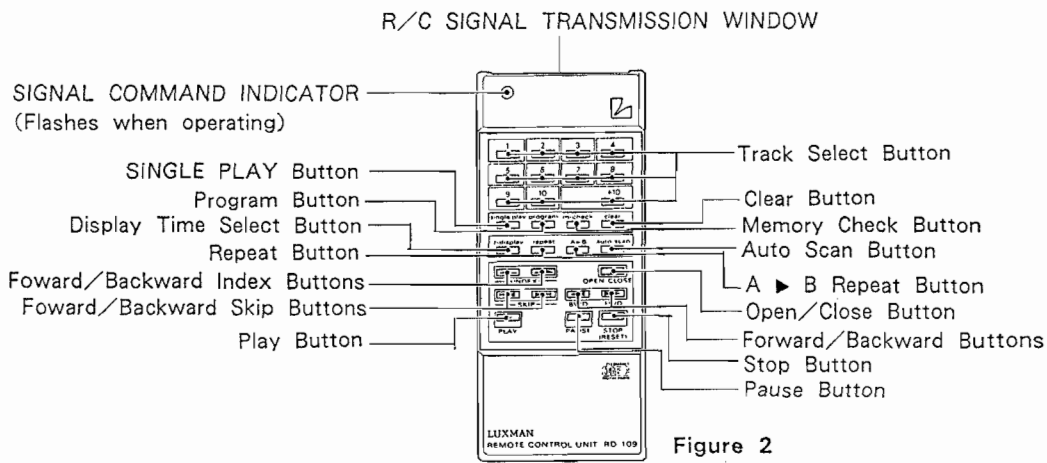


Figure 2

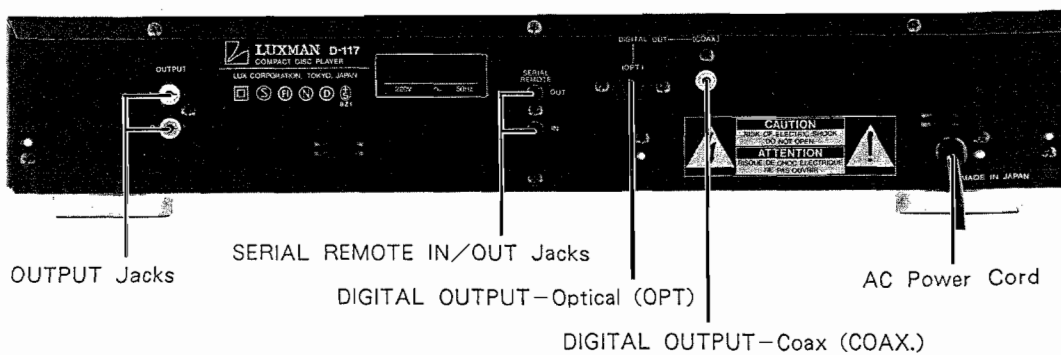


Figure 3

1. Removal of CD Mechanism

- (1) Open the disc tray.
- (2) Remove the panel tray in the arrow direction as shown in Figure 5.
- (3) Remove five screws marked "O" as shown in Figure 4.
- (4) Disconnect all wires from the CD Mechanism.

1. CDメカニズムの外し方

- (1) ディスク・トレイを引き出します。
- (2) トレー・パネルを上へ引き上げてディスク・トレイから外します。(5図参照)
- (3) 5本のネジ (O印) を外します。(4図参照)
- (4) CDメカニズムに接続している全てのリード線を外します。

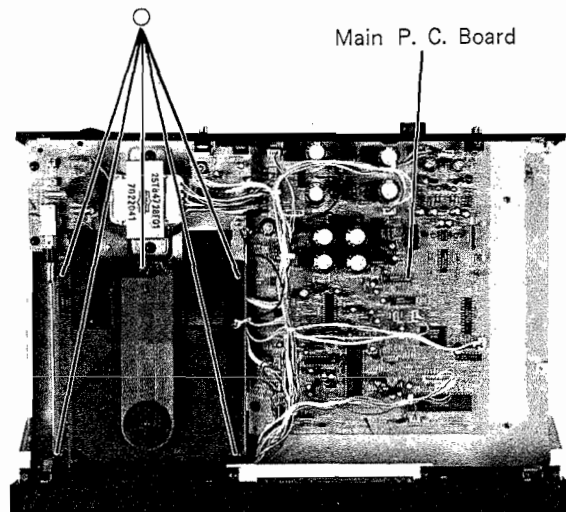


Figure 4
< 図4 >

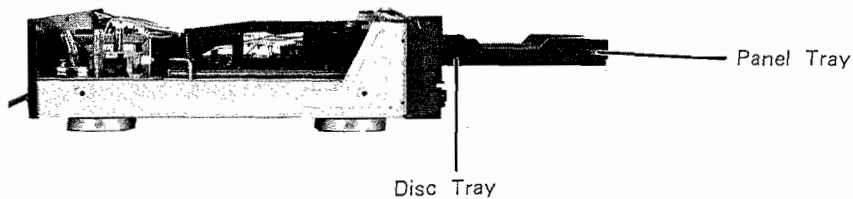


Figure 5
< 図5 >

2. Removal of FL/KEY Board P. C. Board

- (1) After removal of front panel, remove thirteen hooks as shown in Figure 6.

- (2) Disconnect one connector from the Main P. C. Board.

2. FL・キーボード基板

- (1) フロント・パネルをセットから外してから、13ヶ所のフックを外します。(6図参照)
- (2) メイン基板とFL・キーボード基板を接続しているコネクタを全て外します。

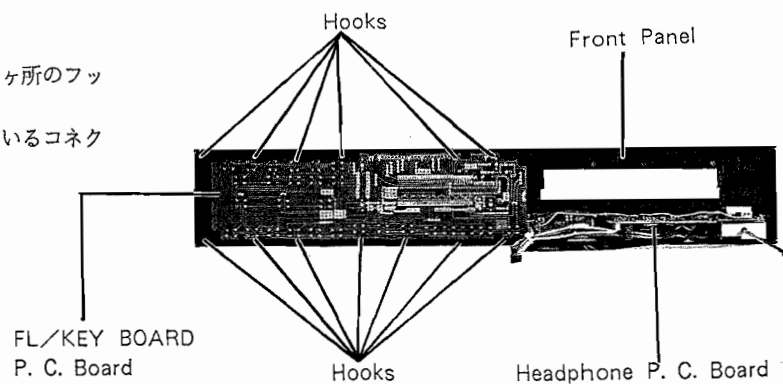


Figure 6
< 図6 >

Adjustment Procedures

1. CD SECTION (1) Connections

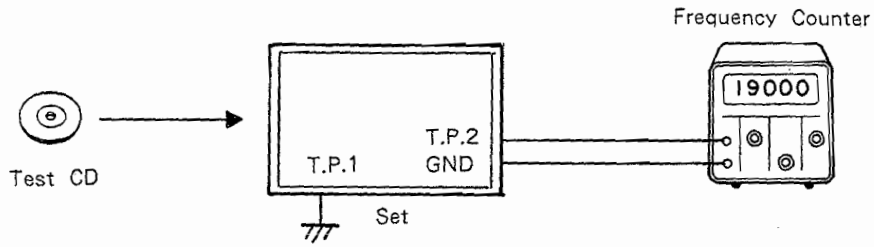


Figure 7

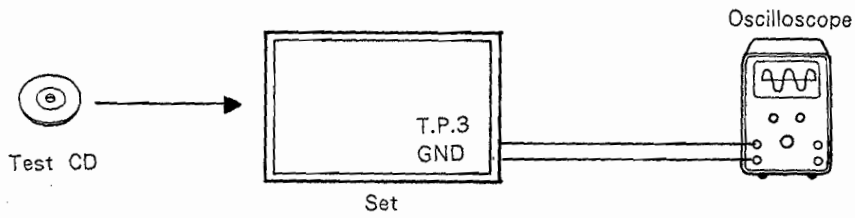


Figure 8

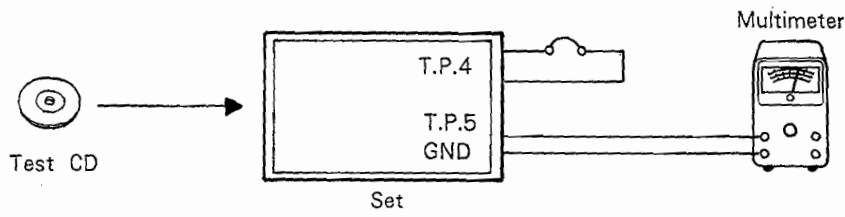


Figure 9

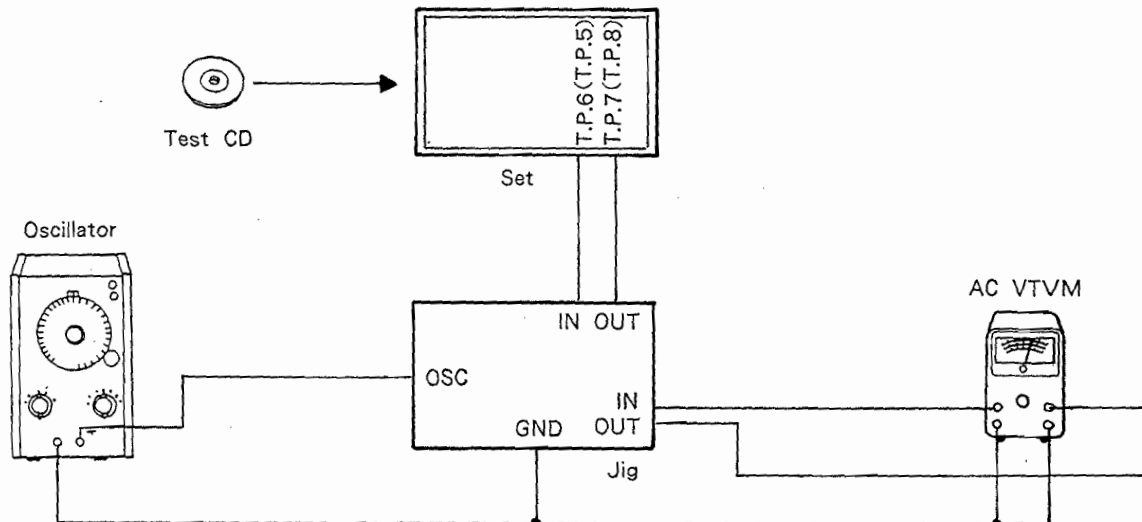


Figure 10

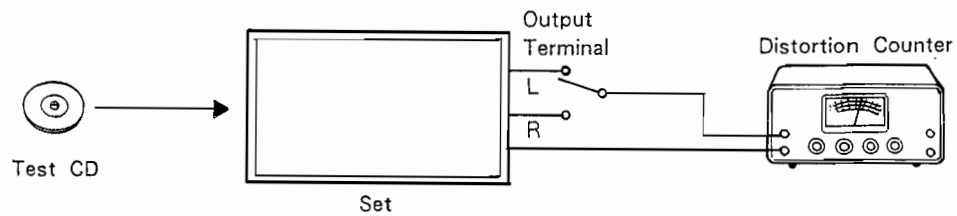


Figure 11

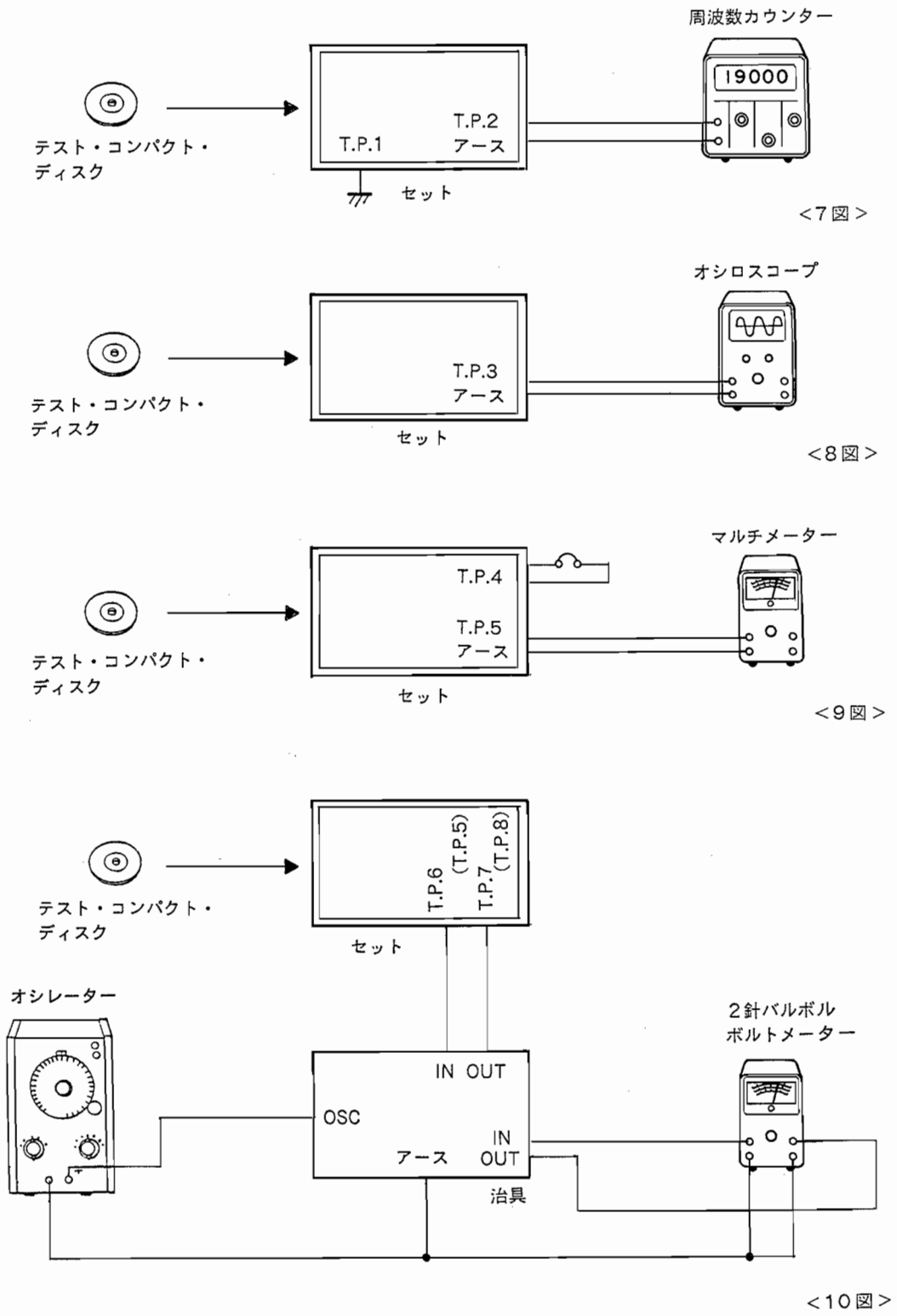
(2) Adjustment Procedures

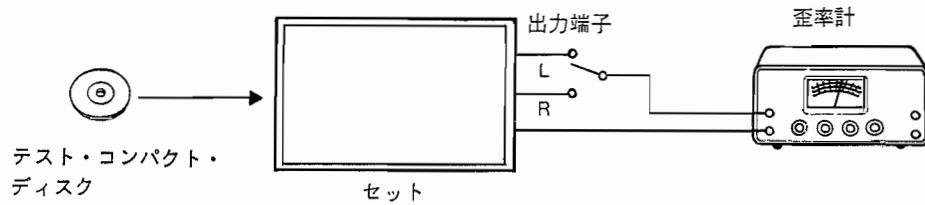
| Step | Description | Connection | Oscillator | Test Point | Adjustment |
|------|-----------------------------------|------------|---------------|-----------------|---|
| 1 | VCO Adjustment | Figure 7 | - | T.P.1 T.P.2 | Connect T.P.1 to ground and adjust VR1303 so that the frequency is $8.643\text{MHz} \pm 10\text{kHz}$. |
| 2 | Focus Bias Adjustment | Figure 8 | - | T.P.3 | Adjust VR1202 for the oscilloscope waveform to show maximum. |
| 3 | Tracking Error Balance Adjustment | Figure 9 | - | T.P.4 T.P.5 | Shortcircuit T.P.4, turn VR1301 fully counter-clockwise and adjust VR1201 so that the voltage is $0 \pm 50\text{mV}$. After adjustment set VR1301 at approximately its center position. |
| 4 | Tracking Gain Adjustment | Figure 10 | 1kHz 200mV | T.P.6 T.P.7 | Adjust VR1302 so that two arms of the valve voltmeter just meet each other. |
| 5 | Focus Gain Adjustment | Figure 10 | 1kHz 200mV | T.P.5 T.P.8 | Adjust VR1301 so that two arms of the valve voltmeter just meet each other. |
| 6 | Distortion Adjustment | Figure 11 | - | Output Terminal | Adjust VR1401 for distortion to be minimum. |

調整方法

1. コンパクト・ディスク

(1) 接続図



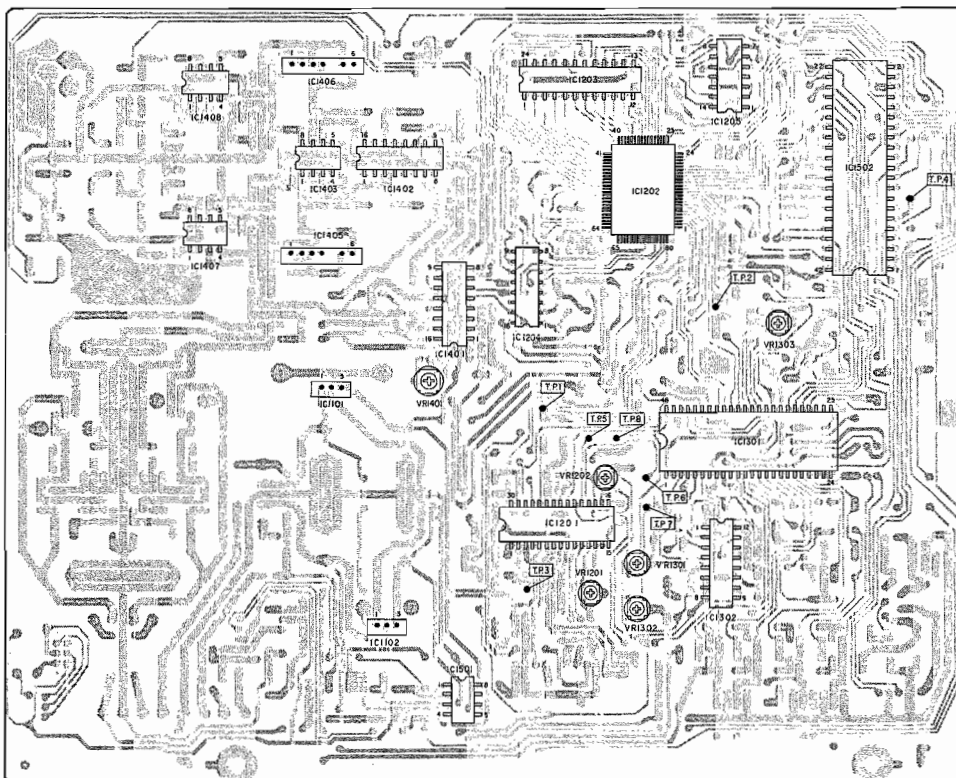


<11 図>

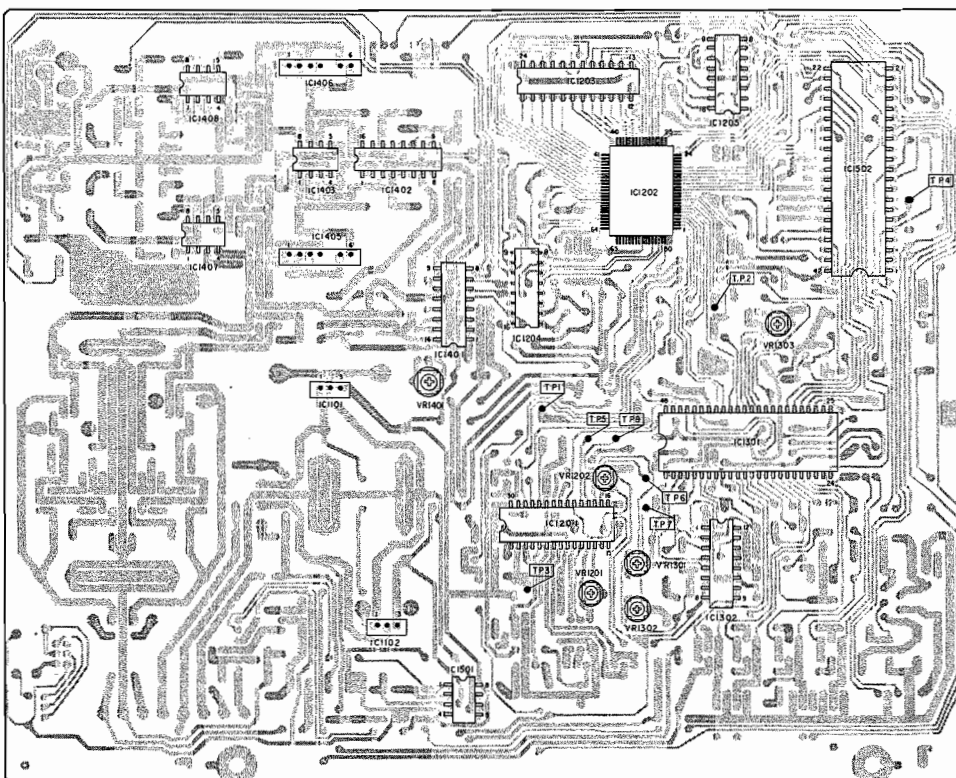
(2) 調整方法

| 順序 | 調整項目 | 接続図 | オシレーター | テストポイント | 調整方法 |
|----|---------------------|------|---------------|----------------|---|
| 1 | VCO調整 | 7 図 | - | T.P.1 T.P.2 | T.P.1をアースに落とし、周波数が8.643MHz±10kHzになる様にVR1303で調整します。 |
| 2 | フォーカス バイアス調整 | 8 図 | - | T.P.3 | オシロスコープの波形が最大になる様にVR1202で調整します。 |
| 3 | トラッキングエラー バランス調整 | 9 図 | - | T.P.4 T.P.5 | T.P.4をショートしてVR1301を左にしぼり、電圧が0V±50mVになる様にVR1201で調整します。調整後VR1301を中央付近にもどす事。 |
| 4 | トラッキング ゲイン調整 | 10 図 | 1kHz 200mV | T.P.6 T.P.7 | 2針バルボルの針が重なる様にVR1302で調整します。 |
| 5 | フォーカス ゲイン調整 | 10 図 | 1kHz 200mV | T.P.5 T.P.8 | 2針バルボルの針が重なる様にVR1302で調整します。 |
| 6 | 歪率調整 | 11 図 | - | 出力端子 | 出力の歪率が最小になる様にVR1401で調整します。 |

Adjustment Locations (Main P. C. Board)

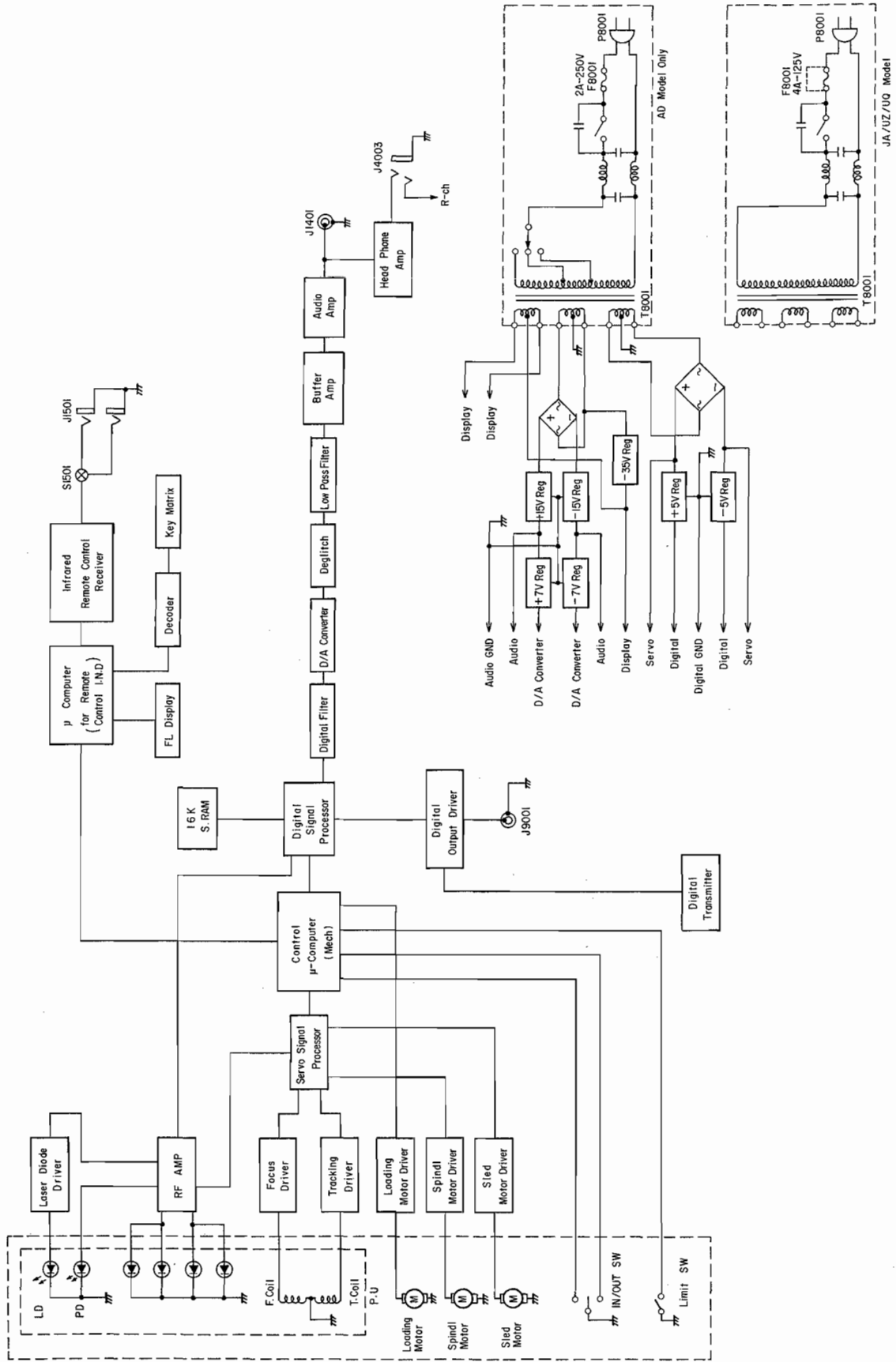


JA, AD and UZ Model Only

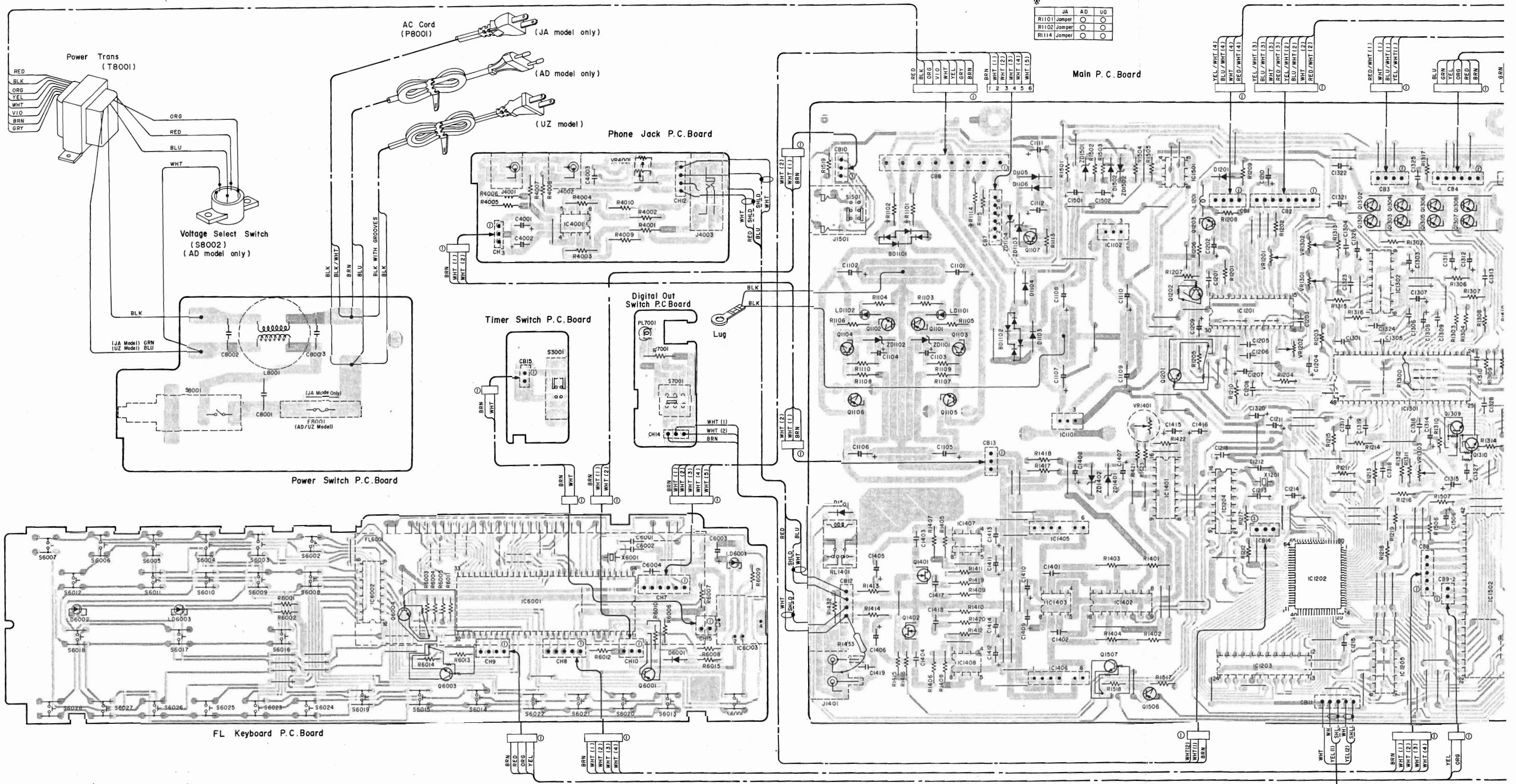


UQ Model Only

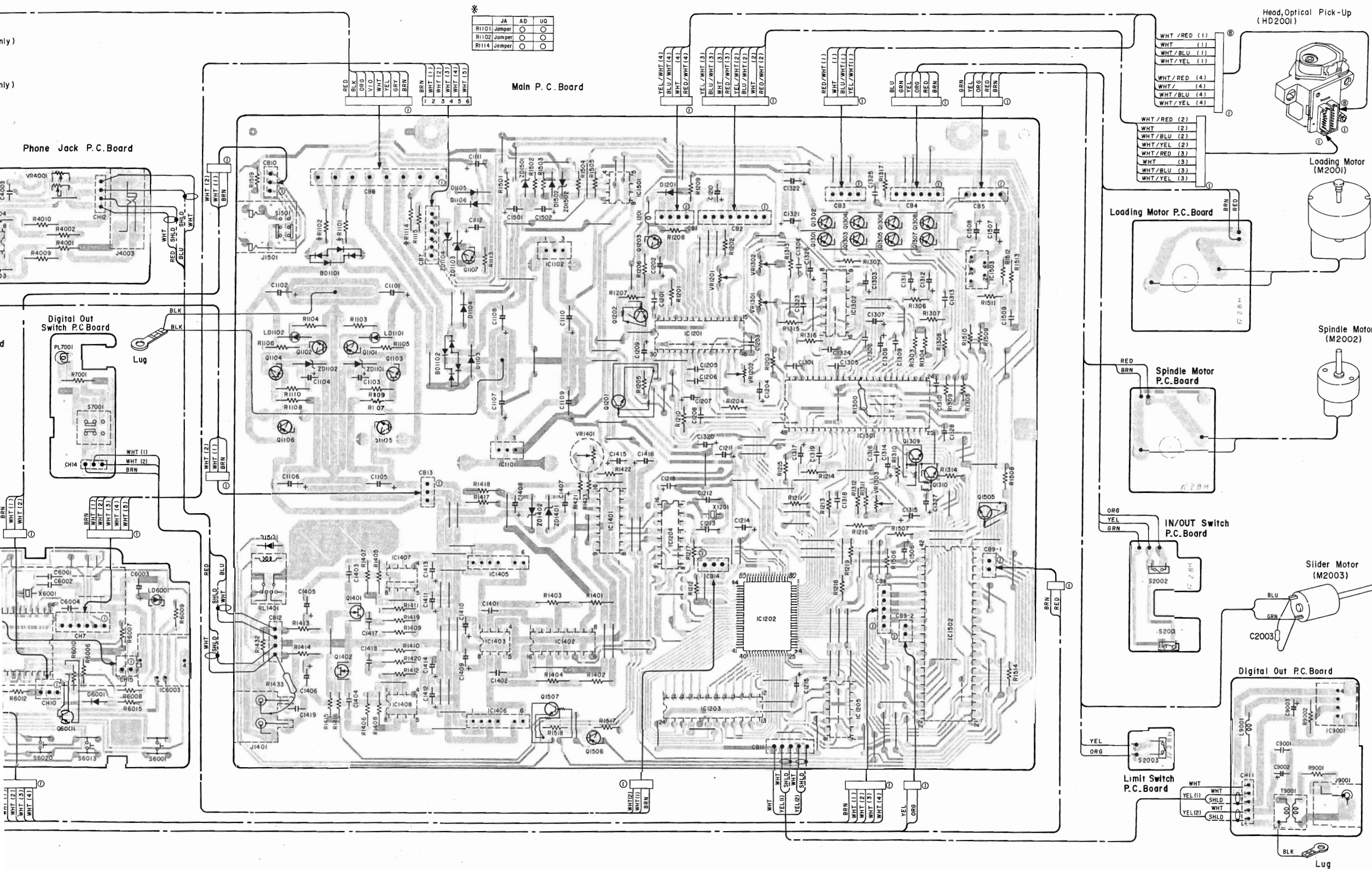
Block Diagram



Parts Layout on P.C. Boards and Wiring Diagram (1/2) JA, AD and UZ model only



1/2) JA, AD and UZ model only

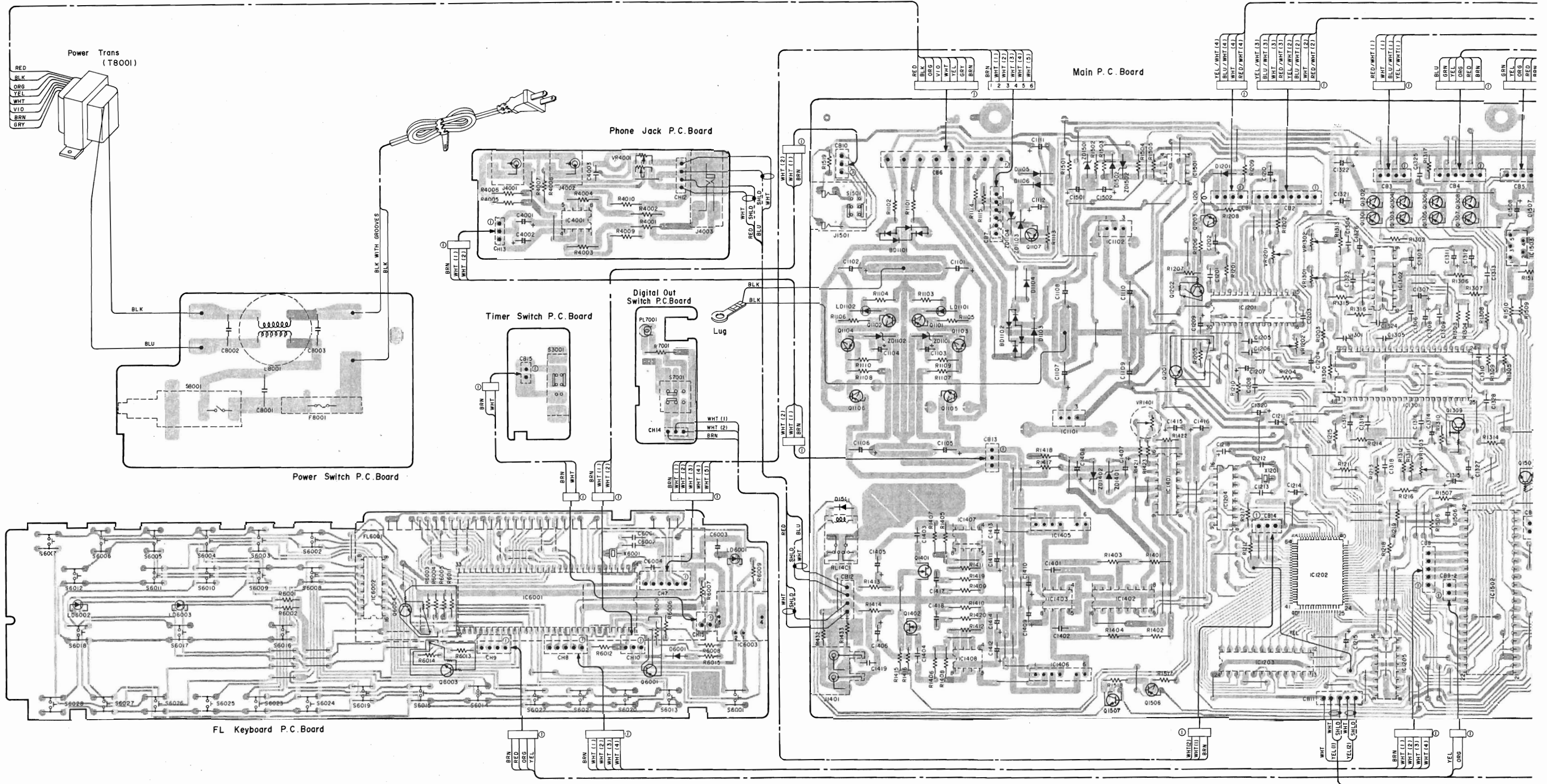


*

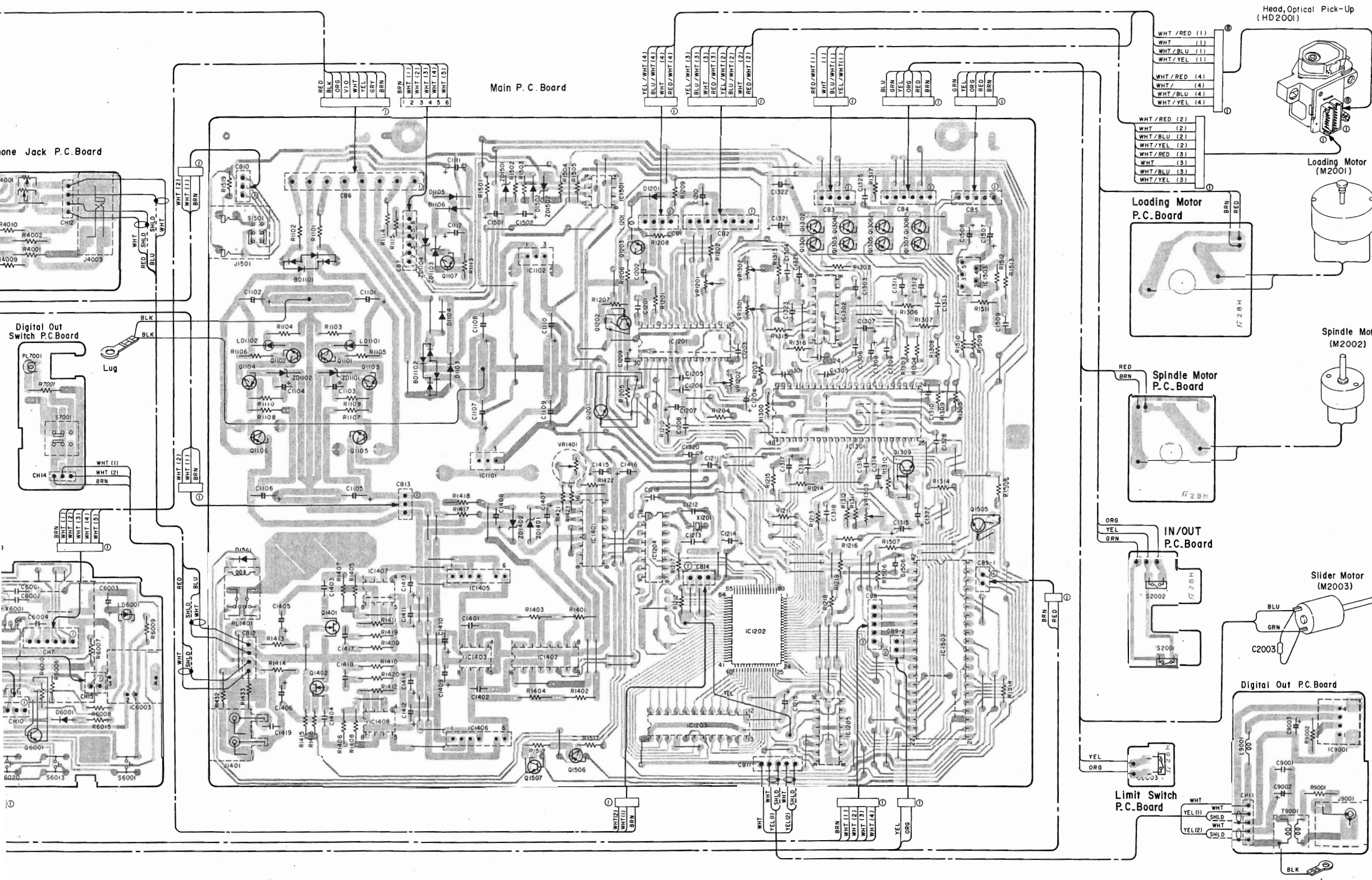
| | | | |
|--------------|----|----|----|
| | JA | AD | UZ |
| R1101 Jumper | ○ | ○ | ○ |
| R1102 Jumper | ○ | ○ | ○ |
| R1114 Jumper | ○ | ○ | ○ |

- BLU Blue
- GRN Green
- BLK Black
- GRY Gray
- WHT White
- RED Red
- BRN Brown
- ORG Orange
- YEL Yellow
- VIO. Violet
- PNK Pink
- GRN/WHT. Green/White
- GRY/WHT. Gray/White
- GRY/YEL. Gray/Yellow
- GRN/YEL. Green/Yellow
- SHLD. Shield

Parts Layout on P.C. Boards and Wiring Diagram (2/2) UQ model only

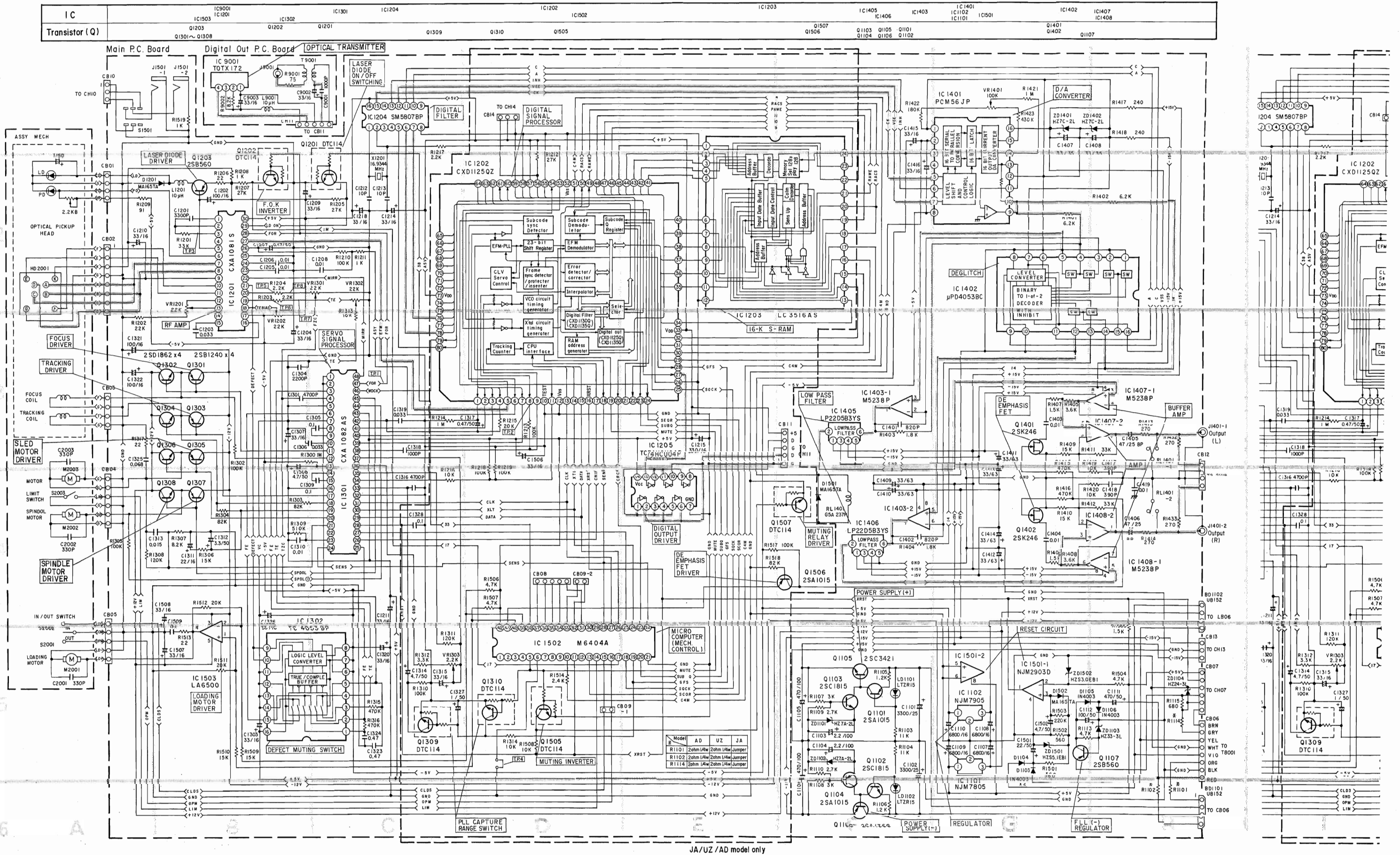


(2/2) UQ model only



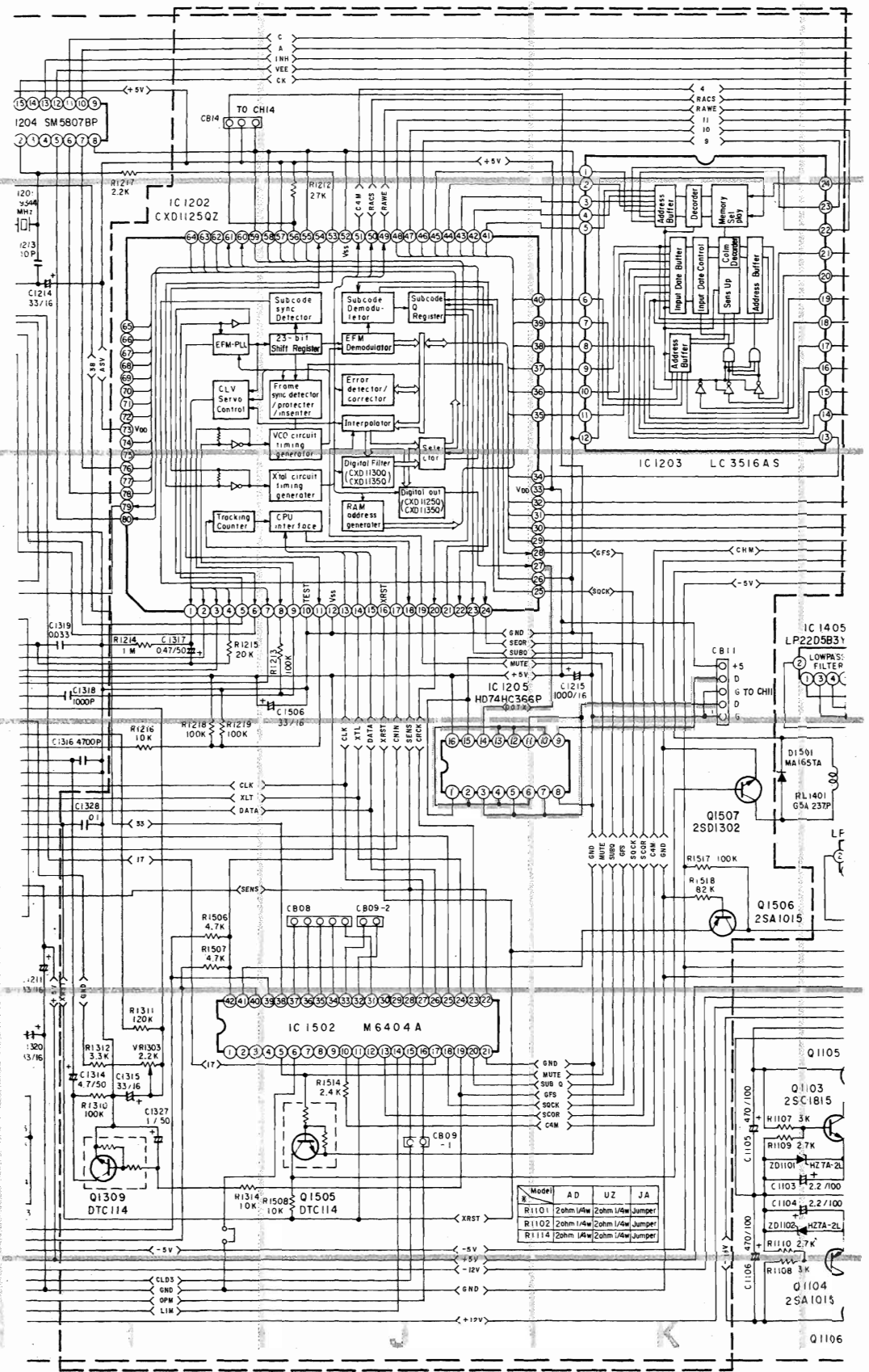
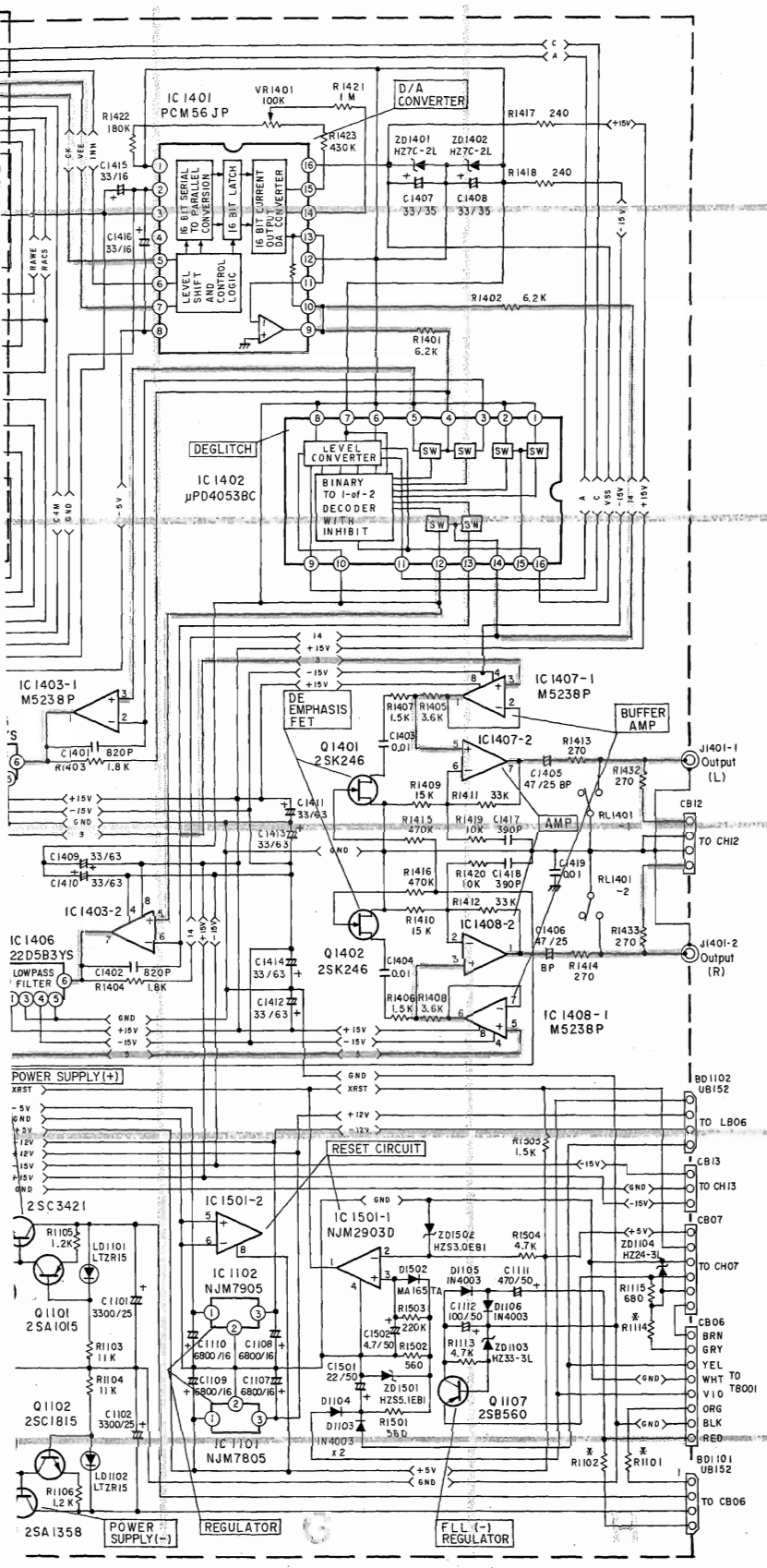
- BLU Blue
- GRN Green
- BLK Black
- GRY Gray
- WHT White
- RED Red
- BRN Brown
- ORG Orange
- YEL Yellow
- VIO Violet
- PNK Pink
- GRN/WHT Green/White
- GRY/WHT Gray/White
- GRY/YEL Gray/Yellow
- GRN/YEL Green/Yellow
- SHLD Shield

Schematic Diagram (1/2)



| | | | | | |
|--------|--------|--------|--------|--------|--------|
| IC1405 | IC1406 | IC1403 | IC1401 | IC1402 | IC1407 |
| Q1103 | Q1105 | Q1101 | Q1401 | Q1402 | Q1107 |
| Q1104 | Q1106 | Q1102 | | | |

NOTES:
 1. All resistance values are in ohms. K = 1,000
 2. All capacitance values are in microfarads. P = 1,000,000



| | | | |
|-------|--------|------|--------|
| Q1208 | 2.7V | 2V | 3.4V |
| Q1202 | 2.2V | 0V | 0V |
| Q1201 | 3.5V | 0V | 0V |
| Q1302 | 0.2V | 11V | 0.5V |
| Q1301 | 0.2V | -12V | 0.5V |
| Q1304 | 0V | 11V | 0V |
| Q1305 | 0V | -12V | 0V |
| Q1306 | 0.8V | 11V | 0.2V |
| Q1305 | 0.8V | -12V | 0.2V |
| Q1306 | 1.1V | 11V | 0.6V |
| Q1307 | 1.1V | -12V | 0.6V |
| Q1309 | 2.8V | 0V | 0V |
| Q1310 | 0V | 2.8V | 0V |
| Q1505 | 0V | 2.8V | 0V |
| Q1506 | 3.7V | 4.5V | 4.5V |
| Q1507 | 2.8V | 1V | 0V |
| Q1105 | 16V | 22V | 16.8V |
| Q1101 | 23.2V | 16V | 20.6V |
| Q1108 | 7.2V | 16V | 6.6V |
| Q1104 | -7.2V | -16V | -6.6V |
| Q1102 | -21.2V | -16V | -20.5V |
| Q1106 | -16V | -23V | -15V |
| Q1107 | 35V | -45V | -34.7V |

| | | |
|--------|----|-------|
| IC1301 | 1 | -5V |
| | 2 | -5V |
| | 3 | 0V |
| | 4 | 0V |
| | 5 | 0V |
| | 6 | 0V |
| | 7 | 0V |
| | 8 | 0V |
| | 9 | 0V |
| | 10 | 0V |
| | 11 | 1V |
| | 12 | 0V |
| | 13 | 0.5V |
| | 14 | 0V |
| | 15 | 0V |
| | 16 | 5V |
| | 17 | 0V |
| | 18 | 0V |
| | 19 | 0V |
| | 20 | -0.5V |
| | 21 | 0V |
| | 22 | - |
| | 23 | -4V |
| | 24 | 5V |
| | 25 | -5V |
| | 26 | 0V |
| | 27 | 5V |
| | 28 | 5V |
| | 29 | 3.5V |
| | 30 | 5V |
| | 31 | 0V |
| | 32 | 0V |
| | 33 | 0V |
| | 34 | 2.5V |
| | 35 | 2.5V |
| | 36 | 2.5V |
| | 37 | 3.5V |
| | 38 | 2.2V |
| | 39 | 0V |
| | 40 | 2.5V |
| | 41 | 5V |
| | 42 | 2.5V |
| | 43 | 5V |
| | 44 | 0V |
| | 45 | 1V |
| | 46 | 2.5V |
| | 47 | 2V |
| | 48 | 0V |

| | | | |
|--------|--------|--------|--------|
| IC1405 | IC1407 | IC1408 | IC1501 |
| 1 | 0V | 0V | - |
| 2 | 0V | 0V | 3V |
| 3 | 0V | 0V | 5V |
| 4 | -15V | -15V | 0V |
| 5 | 0V | 0V | 0V |
| 6 | 0V | 0V | 0V |
| 7 | 0V | 0V | 0V |
| 8 | +15V | +15V | 5V |

| | |
|--------|------|
| IC9001 | |
| 1 | 0V |
| 2 | 2.4V |
| 3 | 5V |
| 4 | 0V |
| 5 | - |
| 6 | - |

| | |
|--------|------|
| IC1503 | |
| 1 | 0V |
| 2 | 0V |
| 3 | -12V |
| 4 | 0V |
| 5 | +12V |

| | |
|--------|------|
| IC1101 | |
| 1 | -5V |
| 2 | 0V |
| 3 | -10V |

| | |
|--------|-----|
| IC1102 | |
| 1 | 5V |
| 2 | 0V |
| 3 | 10V |

| | | |
|--------|----|-------|
| IC1201 | 1 | 0V |
| | 2 | 1V |
| | 3 | 0V |
| | 4 | - |
| | 5 | 2.5V |
| | 6 | 5V |
| | 7 | 0V |
| | 8 | 0V |
| | 9 | 0V |
| | 10 | 0V |
| | 11 | 0V |
| | 12 | -0.5V |
| | 13 | -0.5V |
| | 14 | - |
| | 15 | 2.5V |
| | 16 | 5V |
| | 17 | 5V |
| | 18 | 0V |
| | 19 | 0V |
| | 20 | -5V |
| | 21 | -5V |
| | 22 | 0V |
| | 23 | 0V |
| | 24 | -2V |
| | 25 | 0V |
| | 26 | 2.5V |
| | 27 | 2.5V |
| | 28 | 2V |
| | 29 | 0V |
| | 30 | 5V |

| | | | | |
|--------|----|-------|----|------|
| IC1202 | 1 | 0V | 41 | 2.5V |
| | 2 | 5V | 42 | 2.5V |
| | 3 | 2.5V | 43 | 2.5V |
| | 4 | 2.8V | 44 | 2.5V |
| | 5 | 2.5V | 45 | 2.5V |
| | 6 | 2.5V | 46 | 2.5V |
| | 7 | 5V | 47 | 2.5V |
| | 8 | 2.5V | 48 | 2.5V |
| | 9 | 2.5V | 49 | 5V |
| | 10 | 0V | 50 | 2.5V |
| | 11 | 0V | 51 | 2.5V |
| | 12 | -0.5V | 52 | 0V |
| | 13 | -0.5V | 53 | 0V |
| | 14 | 5V | 54 | - |
| | 15 | 3.4V | 55 | 0V |
| | 16 | 5V | 56 | 5V |
| | 17 | 0V | 57 | 0V |
| | 18 | 8.5V | 58 | 0V |
| | 19 | 0V | 59 | 0V |
| | 20 | 5V | 60 | - |
| | 21 | - | 61 | - |
| | 22 | - | 62 | - |
| | 23 | -1V | 63 | - |
| | 24 | 0V | 64 | - |
| | 25 | -2.5V | 65 | - |
| | 26 | 0V | 66 | - |
| | 27 | -2.5V | 67 | - |
| | 28 | 5V | 68 | - |
| | 29 | 2V | 69 | - |
| | 30 | 2V | 70 | - |
| | 31 | 2V | 71 | - |
| | 32 | 2V | 72 | - |
| | 33 | 5V | 73 | 5V |
| | 34 | 2V | 74 | - |
| | 35 | 2V | 75 | - |
| | 36 | 2V | 76 | 2.5V |
| | 37 | 2V | 77 | - |
| | 38 | 2.5V | 78 | 2.5V |
| | 39 | 2.5V | 79 | 2.5V |
| | 40 | 2.5V | 80 | 2.5V |

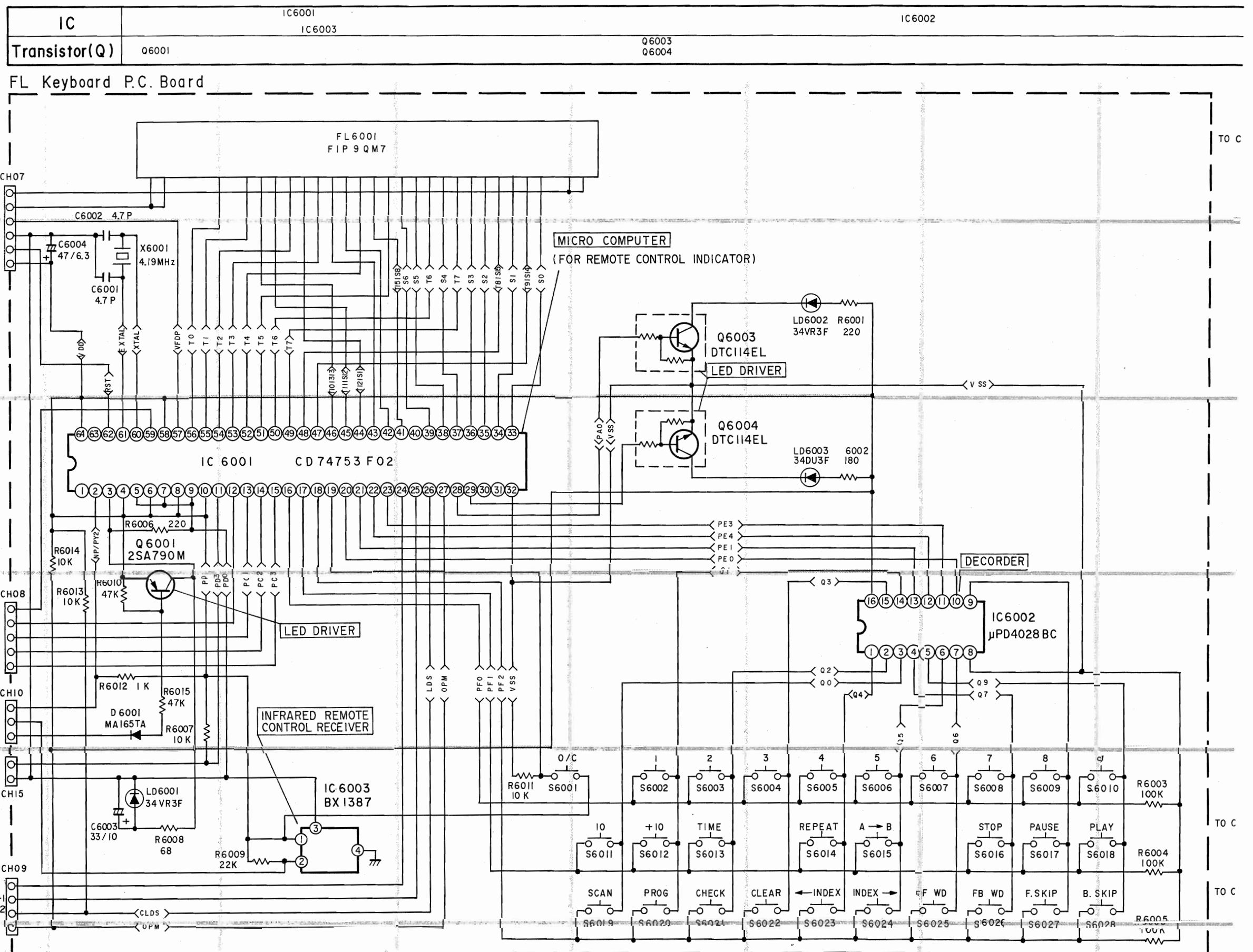
| | | |
|--------|----|------|
| IC1203 | 1 | 2.5V |
| | 2 | 2.5V |
| | 3 | 2.5V |
| | 4 | 2.5V |
| | 5 | 2.5V |
| | 6 | 2.5V |
| | 7 | 2.5V |
| | 8 | 2.5V |
| | 9 | 3V |
| | 10 | 5V |
| | 11 | 2V |
| | 12 | 0V |
| | 13 | 2V |
| | 14 | 2V |
| | 15 | 2V |
| | 16 | 2V |
| | 17 | 2V |
| | 18 | 2.5V |
| | 19 | 2.5V |
| | 20 | 2.5V |
| | 21 | 2.5V |
| | 22 | 2.5V |
| | 23 | 2.5V |
| | 24 | 5V |

| Model | JA model only (●) | AD model only (■) | UZ model only (▲) | UQ model only (★) |
|--------|-------------------|-------------------|-------------------|-------------------|
| IC1205 | TC74HC04P | TC74HC04P | TC74HC04P | HD74HC366P |
| Q1507 | DT114 | DT114 | DT114 | 2SD1302 |
| LD1101 | L7815 | L7815 | L7815 | BR5507S |
| LD1102 | L7815 | L7815 | L7815 | BR5507S |
| IC1215 | 330qF/16V | 330qF/16V | 330qF/16V | 1000qF/16V |
| Q1510 | DT114 | DT114 | DT114 | Not Used |
| RA005 | 100hm | 100hm | 100hm | 8200hm |
| RA006 | 100hm | 100hm | 100hm | 8200hm |
| RA007 | 680hm | 680hm | 680hm | 3.30hm |
| RA008 | 680hm | 680hm | 680hm | 3.30hm |
| RI103 | 110hm | 110hm | 110hm | 100hm |
| RI104 | 110hm | 110hm | 110hm | 100hm |

Measuring Conditions
 1. Power Supply Voltage
 : 100V, 50/60Hz (JA)
 : 120V, 60Hz (UZ, UQ)
 : 120/220/240V, 50Hz (AD)
 2. Measuring Meter
 : Multi Voltmeter
 3. Measuring Point Reference
 : Between Ground
 4. Measuring Condition
 : No Signal Input
 CD in play Condition

| | | | |
|---------------|------|----|------|
| UQ model only | | | |
| IC1205 | | | |
| 1 | 5V | 3 | 2.5V |
| 2 | 2.5V | 10 | 2.5V |
| 3 | 0V | 11 | 2.5V |
| 4 | 2.5V | 12 | 2.5V |
| 5 | 2.5V | 13 | 2.5V |
| 6 | 2.5V | 14 | - |
| 7 | 2.5V | 15 | 2.5V |
| 8 | 0V | 16 | 5V |

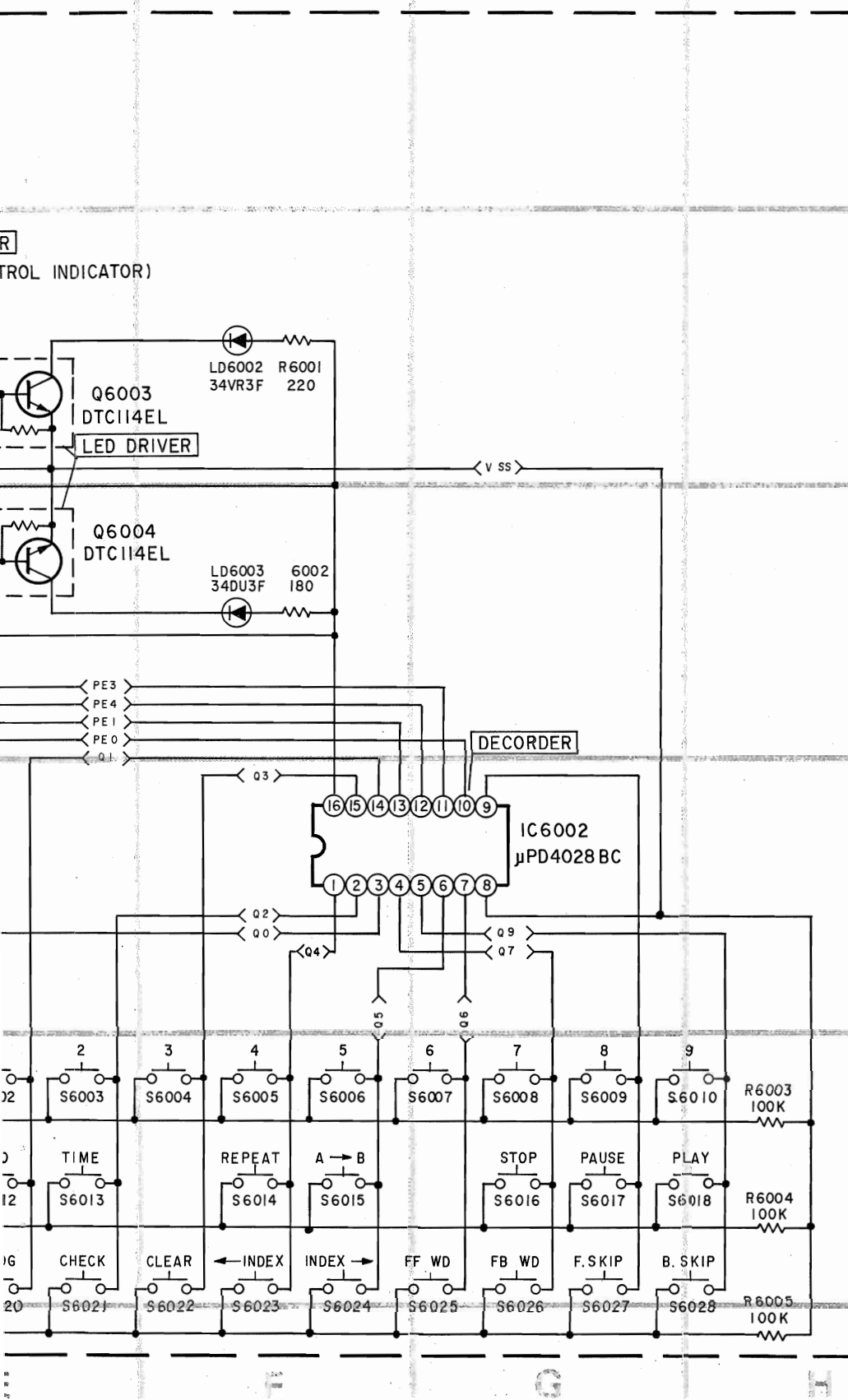
Schematic Diagram (2/2)



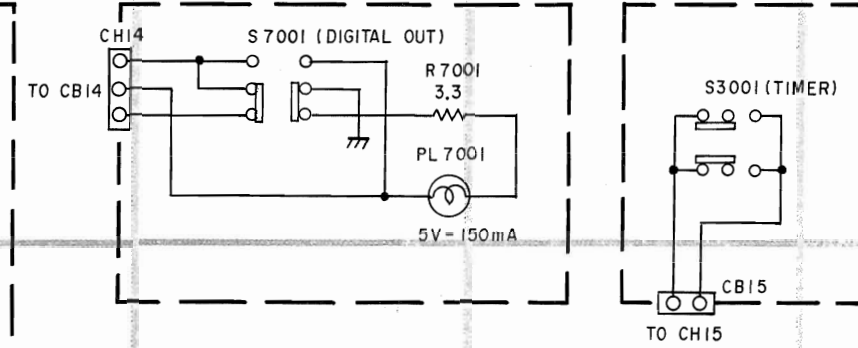
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NOTES:

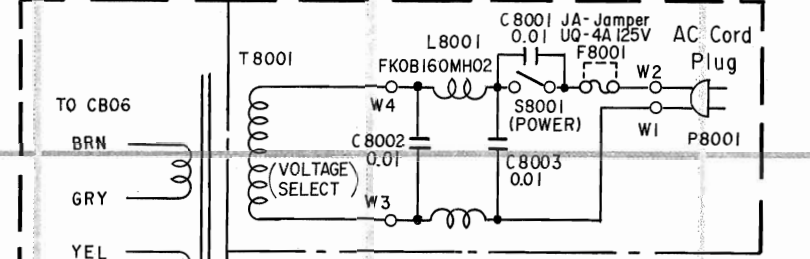
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1,000,000}$



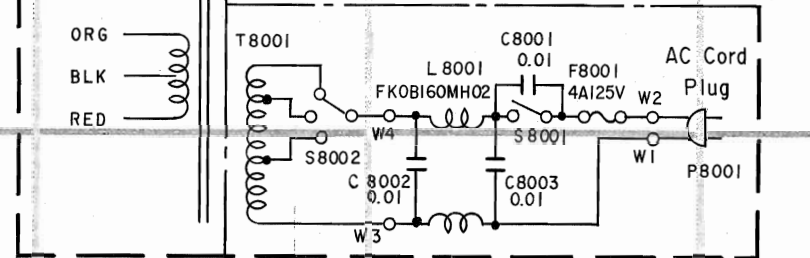
Digital Out Switch P.C. Board



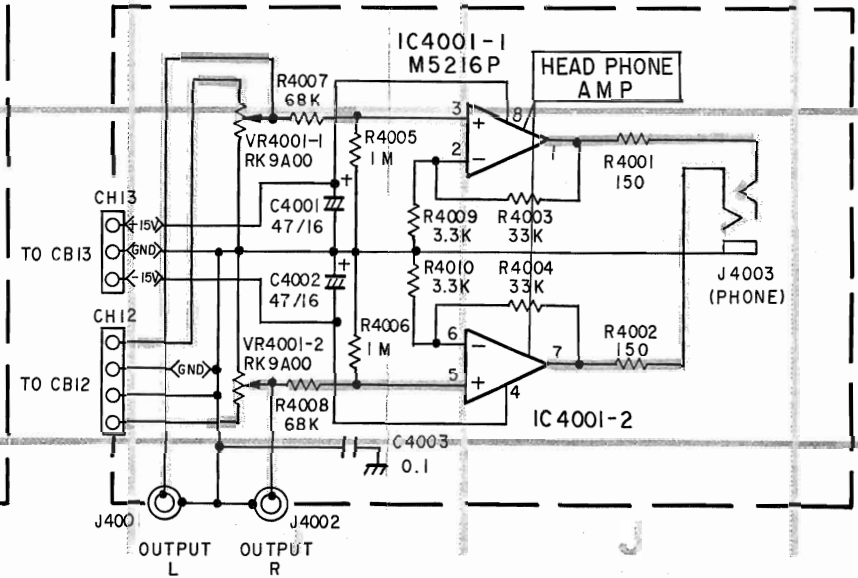
Power Switch P.C. Board (JA/UQ Model only)



Power Switch P.C. Board (AD/UZ model only)



Phone P.C. Board



| | B | C | E |
|-------|----|------|----|
| Q6003 | 5V | 0V | 0V |
| Q6004 | 0V | 3.7V | 0V |
| Q6001 | 5V | 0V | 5V |

IC6001

| | | | |
|----|----|----|----------|
| 1 | - | 33 | -3.4-5V |
| 2 | 5V | 34 | -3.4-5V |
| 3 | 0V | 35 | -3.4-5V |
| 4 | 5V | 36 | -3.4-5V |
| 5 | 0V | 37 | -3.4-5V |
| 6 | 0V | 38 | -3.4-5V |
| 7 | 0V | 39 | -3.4-5V |
| 8 | 5V | 40 | - |
| 9 | 0V | 41 | -3.4V-5V |
| 10 | 5V | 42 | -3.4-5V |
| 11 | 5V | 43 | -3.4V-5V |
| 12 | 0V | 44 | -3.4V-5V |
| 13 | 5V | 45 | -3.4V-5V |
| 14 | 5V | 46 | -3.4V-5V |
| 15 | 5V | 47 | -3.4V-5V |
| 16 | 0V | 48 | -3.4V-5V |
| 17 | 0V | 49 | -3.4V-5V |
| 18 | 0V | 50 | -3.4V-5V |
| 19 | 0V | 51 | -3.4V-5V |
| 20 | 0V | 52 | -3.4V-5V |
| 21 | 0V | 53 | -3.4V-5V |
| 22 | 0V | 54 | -3.4V-5V |
| 23 | 0V | 55 | -3.4V-5V |
| 24 | 5V | 56 | -3.4V-5V |
| 25 | 5V | 57 | 0V |
| 26 | 5V | 58 | 5V |
| 27 | 0V | 59 | 5V |
| 28 | 5V | 60 | 2.2V |
| 29 | 0V | 61 | 0V |
| 30 | - | 62 | 5V |
| 31 | - | 63 | - |
| 32 | 0V | 64 | 5V |

IC4001

| | |
|---|------|
| 1 | 0V |
| 2 | 0V |
| 3 | 0V |
| 4 | -15V |
| 5 | 0V |
| 6 | 0V |
| 7 | 0V |
| 8 | +15V |

IC6002

| | | | |
|---|----|----|----|
| 1 | 0V | 9 | 0V |
| 2 | 0V | 10 | 0V |
| 3 | 5V | 11 | 0V |
| 4 | 0V | 12 | 0V |
| 5 | 0V | 13 | 0V |
| 6 | 0V | 14 | 0V |
| 7 | 0V | 15 | 0V |
| 8 | 0V | 16 | 5V |

Electrical Parts List

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.
 uF= microfarads, pF=picofarads

| Abbreviations | | | | Symbol No. | Part No. | Description | | |
|---|----------|-------------|--------------------|------------|----------|-------------|--|--|
| RES.=Resistor CAP.=Capacitor C.F.=Carbon Film ELY.=Electrolytic M.F.=Metal Film CER.=Ceramic M.O.=Metal Oxide Film MYL.=Mylar M.P.=Metal Plate TAN.=Tantalum TR.=Transistor POLY.=Polystyrol TRANS.=Transformer PP.=Polypropylene CP.=Chip PLT.=Polyethylene | | | | | | | | |
| Symbol No. | Part No. | Description | | | | | | |
| Main P. C. Board | | | | | | | | |
| IC's | | | | | | | | |
| | IC1101 | 51T80338F01 | NJM7805 | | | | | |
| | IC1102 | 51T80339F01 | NJM7905 | | | | | |
| | IC1201 | 51T84721F01 | CXA1081S | | | | | |
| | IC1202 | 51T84720F01 | CXD1125QZ | | | | | |
| | IC1203 | 51T84723F01 | LC3516AS | | | | | |
| | IC1204 | 51T84724F02 | SM5807BP | | | | | |
| ● | IC1205 | 51T80475F01 | TC74HCU04P | | | | | |
| ■ | IC1205 | 51T80475F01 | TC74HCU04P | | | | | |
| ▲ | IC1205 | 51T80475F01 | TC74HCU04P | | | | | |
| ★ | IC1205 | 51T93405F01 | HD74HC366P | | | | | |
| | IC1301 | 51T84722F01 | CXA1082AS | | | | | |
| | IC1302 | 51T68388F01 | TC4053BP | | | | | |
| | IC1401 | 51T80318F01 | PCM56JP | | | | | |
| | IC1402 | 51T67480F01 | μ PD4053BC | | | | | |
| | IC1403 | 51T80136F01 | M5238P | | | | | |
| | IC1405 | 51T92601F01 | LP22D5B3YS | | | | | |
| | IC1406 | 51T92601F01 | LP22D5B3YS | | | | | |
| | IC1407 | 51T80136F01 | M5238P | | | | | |
| | IC1408 | 51T80136F01 | M5238P | | | | | |
| | IC1501 | 51T64227F01 | NJM2903D | | | | | |
| | IC1502 | 51T84725F01 | M640AA | | | | | |
| | IC1503 | 51T91028F01 | LA6500 | | | | | |
| Transistors | | | | | | | | |
| | Q1101 | 48T51118F02 | 2SA1015 | | | | | |
| | Q1102 | 48S43525F03 | 2SC1815 | | | | | |
| | Q1103 | 48S43525F03 | 2SC1815 | | | | | |
| | Q1104 | 48T51118F02 | 2SA1015 | | | | | |
| | Q1105 | 48T69176F02 | 2SC3421 | | | | | |
| | Q1106 | 48T69177F02 | 2SA1358 | | | | | |
| | Q1107 | 48T58775F02 | 2SB560 | | | | | |
| | Q1201 | 48T62965F02 | DTC114 | | | | | |
| | Q1202 | 48T62965F02 | DTC114 | | | | | |
| | Q1203 | 48T58775F02 | 2SB560 | | | | | |
| | Q1301 | 48T84238F04 | 2SB1240 | | | | | |
| | Q1302 | 48T83834F04 | 2SD1862 | | | | | |
| | Q1303 | 48T84238F04 | 2SB1240 | | | | | |
| | Q1304 | 48T83834F04 | 2SD1862 | | | | | |
| | Q1305 | 48T84238F04 | 2SB1240 | | | | | |
| | Q1306 | 48T83834F04 | 2SD1862 | | | | | |
| | Q1307 | 48T84238F04 | 2SB1240 | | | | | |
| | Q1308 | 48T83834F04 | 2SD1862 | | | | | |
| | Q1309 | 48T62965F02 | DTC114 | | | | | |
| ● | Q1310 | 48T62965F02 | DTC114 | | | | | |
| ■ | Q1310 | 48T62965F02 | DTC114 | | | | | |
| ▲ | Q1310 | 48T62965F02 | DTC114 | | | | | |
| | Q1401 | 48T66948F01 | FET, 2SK246 | | | | | |
| | Q1402 | 48T66948F01 | FET, 2SK246 | | | | | |
| | Q1505 | 48T62965F02 | DTC114 | | | | | |
| | Q1506 | 48T51118F02 | 2SA1015 | | | | | |
| ● | Q1507 | 48T62965F02 | DTC114 | | | | | |
| ■ | Q1507 | 48T62965F02 | DTC114 | | | | | |
| ▲ | Q1507 | 48T62965F02 | DTC114 | | | | | |
| ★ | Q1507 | 48T57305F04 | 2SD1302 | | | | | |
| Diodes/LEDs | | | | | | | | |
| | D1103 | 48S40477U01 | IN4003 | | | | | |
| | D1104 | 48S40477U01 | IN4003 | | | | | |
| | D1105 | 48S40477U01 | IN4003 | | | | | |
| | D1106 | 48S40477U01 | IN4003 | | | | | |
| | D1201 | 48T44813F01 | MA165TA | | | | | |
| | D1501 | 48T44813F01 | MA165TA | | | | | |
| | D1502 | 48T44813F01 | MA165TA | | | | | |
| ● | LD1101 | 48T60971F01 | LED, LTZ-R15 (RED) | | | | | |
| ■ | LD1101 | 48T60971F01 | LED, LTZ-R15 (RED) | | | | | |
| ▲ | LD1101 | 48T60971F01 | LED, LTZ-R15 (RED) | | | | | |
| ★ | LD1101 | 48T52953F03 | LED, BR5507S (RED) | | | | | |
| ● | LD1102 | 48T60971F01 | LED, LTZ-R15 (RED) | | | | | |
| ■ | LD1102 | 48T60971F01 | LED, LTZ-R15 (RED) | | | | | |
| ▲ | LD1102 | 48T60971F01 | LED, LTZ-R15 (RED) | | | | | |
| ★ | LD1102 | 48T52953F03 | LED, BR5507S (RED) | | | | | |
| | ZD1101 | 48T52741F11 | Zener, HZ7A-2L | | | | | |
| | ZD1102 | 48T52741F11 | Zener, HZ7A-2L | | | | | |
| | ZD1103 | 48T52741F72 | Zener, HZ33-3L | | | | | |
| | ZD1104 | 48T52741F63 | Zener, HZ24-3L | | | | | |
| | ZD1401 | 48T52741F17 | Zener, HZ7C-2L | | | | | |
| | ZD1402 | 48T52741F17 | Zener, HZ7C-2L | | | | | |
| | ZD1501 | 48T68697F17 | Zener, HZS5. 1EB1 | | | | | |
| | ZD1502 | 48T68697F03 | Zener, HZS3. 0EB1 | | | | | |
| ● | BD1101 | 48T62282F01 | Bridge UB152 | | | | | |
| ■ | BD1101 | 48T62282F01 | Bridge UB152 | | | | | |

Notes : ● : Japanese model only (JA), ■ : West Germany model only (AD), ▲ : North American model only (UZ), ★ : Canadian model only (UQ), Others : Common.

| Symbol No. | Part No. | Description | | | Symbol No. | Part No. | Description | | |
|---------------|----------------|-------------|--|--|------------|----------|-------------|--|--|
| ▲ | BD1101 | 48T62282F01 | Bridge UB152 | | | | | | |
| ★ | BD1101 | 48T62282F01 | Bridge UB152F | | | | | | |
| ● | BD1102 | 48T62282F02 | Bridge UB152 | | | | | | |
| ■ | BD1102 | 48T62282F01 | Bridge UB152 | | | | | | |
| ▲ | BD1102 | 48T62282F01 | Bridge UB152 | | | | | | |
| ★ | BD1102 | 48T62282F02 | Bridge UB152F | | | | | | |
| Coil | | | | | | | | | |
| | L1201 | 24T50508F22 | Inductor 10 μ H | | | | | | |
| Relay/Crystal | | | | | | | | | |
| | RL1401 | 80T68404F02 | Relay, G5A 237P-5V | | | | | | |
| | X1201 | 48T84727F01 | Crystal, 16.9344MHz | | | | | | |
| Jacks | | | | | | | | | |
| | J1401 | 09T84616F02 | Plate, Phono (OUTPUT L/R) | | | | | | |
| | J1501 S1501 | 09T84124F01 | Jack, Head Phone (SERIAL REMOTE IN /OUT) | | | | | | |
| Capacitors | | | | | | | | | |
| | C1101 | 23T90770F51 | ELY., 3300 μ F/25V | | | | | | |
| | C1102 | 23T90770F51 | ELY., 3300 μ F/25V | | | | | | |
| | C1103 | 23T90770F98 | ELY., 2.2 μ F/100V | | | | | | |
| | C1104 | 23T90770F98 | ELY., 2.2 μ F/100V | | | | | | |
| | C1105 | 23T90771F09 | ELY., 470 μ F/100V | | | | | | |
| | C1106 | 23T90771F09 | ELY., 470 μ F/100V | | | | | | |
| | C1107 | 23T00160L39 | ELY., 6800 μ F/16V | | | | | | |
| | C1108 | 23T00160L39 | ELY., 6800 μ F/16V | | | | | | |
| | C1109 | 23T00160L39 | ELY., 6800 μ F/16V | | | | | | |
| | C1110 | 23T00160L39 | ELY., 6800 μ F/16V | | | | | | |
| | C1111 | 23T00134L74 | ELY., 470 μ F/50V | | | | | | |
| | C1112 | 23T00138L53 | ELY., 100 μ F/50V | | | | | | |
| | C1201 | 08T00015L19 | PP., 3300pF | | | | | | |
| | C1202 | 23T00138L21 | ELY., 100 μ F/16V | | | | | | |
| | C1203 | 08T00015L31 | PP., 0.033 μ F | | | | | | |
| | C1204 | 23T00138L19 | ELY., 33 μ F/16V | | | | | | |
| | C1205 | 08T00015L25 | PP., 0.01 μ F | | | | | | |
| | C1206 | 08T00015L25 | PP., 0.01 μ F | | | | | | |
| | C1207 | 23T00138L44 | ELY., 0.47 μ F/50V | | | | | | |
| | C1208 | 08T00015L25 | PP., 0.01 μ F | | | | | | |
| | C1209 | 23T00138L19 | ELY., 33 μ F/16V | | | | | | |
| | C1210 | 23T00138L19 | ELY., 33 μ F/16V | | | | | | |
| | C1211 | 23T00138L19 | ELY., 33 μ F/16V | | | | | | |
| | C1212 | 08T55260F13 | CER., 10pF | | | | | | |
| | C1213 | 08T55260F13 | CER., 10pF | | | | | | |
| | C1214 | 23T00138L19 | ELY., 33 μ F/16V | | | | | | |
| ● | C1215 | 23T00134L34 | ELY., 330 μ F/16V | | | | | | |
| ■ | C1215 | 23T00134L34 | ELY., 330 μ F/16V | | | | | | |
| ▲ | C1215 | 23T00134L34 | ELY., 330 μ F/16V | | | | | | |
| ★ | C1215 | 23T00134L36 | ELY., 1000 μ F/16V | | | | | | |
| | C1218 | 23T00138L19 | ELY., 33 μ F/16V | | | | | | |
| | C1301 | 08T00015L21 | PP., 4700pF | | | | | | |
| | C1303 | 23T00138L19 | ELY., 33 μ F/16V | | | | | | |
| | C1304 | 08T00015L17 | PP., 2200pF | | | | | | |
| | C1305 | 08T00015L37 | PP., 0.1 μ F | | | | | | |
| | C1306 | 08T00015L31 | PP., 0.033 μ F | | | | | | |
| | C1307 | 23T00138L19 | ELY., 33 μ F/16V | | | | | | |
| | C1308 | 23T00138L48 | ELY., 4.7 μ F/50V | | | | | | |
| | C1309 | 08T00015L37 | PP., 0.1 μ F | | | | | | |
| | C1310 | 08T00015L25 | PP., 0.01 μ F | | | | | | |
| | C1311 | 23T00138L18 | ELY., 22 μ F/16V | | | | | | |
| | C1312 | 23T00138L47 | ELY., 3.3 μ F/50V | | | | | | |
| | C1313 | 08T00015L27 | PP., 0.015 μ F | | | | | | |
| | C1314 | 23T00138L48 | ELY., 4.7 μ F/50V | | | | | | |
| | C1315 | 23T00138L19 | ELY., 33 μ F/16V | | | | | | |
| | C1316 | 08T00015L21 | PP., 4700pF | | | | | | |
| | C1317 | 23T00138L44 | ELY., 0.47 μ F/50V | | | | | | |
| | C1318 | 08T00015L13 | PP., 1000pF | | | | | | |
| | C1319 | 08T00015L31 | PP., 0.033 μ F | | | | | | |
| | C1320 | 23T00138L19 | ELY., 33 μ F/16V | | | | | | |
| | C1321 | 23T00134L32 | ELY., 100 μ F/16V | | | | | | |
| | C1322 | 23T00134L32 | ELY., 100 μ F/16V | | | | | | |
| | C1323 | 08T57851F21 | TF., 0.47 μ F | | | | | | |
| | C1324 | 08T57851F21 | TF., 0.47 μ F | | | | | | |
| ● | C1325 | 08T90316F27 | TF., 0.068 μ F | | | | | | |
| ■ | C1325 | 08T90316F27 | TF., 0.068 μ F | | | | | | |
| ▲ | C1325 | 08T90316F27 | TF., 0.068 μ F | | | | | | |
| ★ | C1325 | 08T57851F11 | TF., 0.068 μ F | | | | | | |
| | C1326 | 23T00138L19 | ELY., 33 μ F/16V | | | | | | |
| ● | C1327 | 23T00138L45 | ELY., 1 μ F/50V | | | | | | |
| ■ | C1327 | 23T00138L45 | ELY., 1 μ F/50V | | | | | | |
| ▲ | C1327 | 23T00138L45 | ELY., 1 μ F/50V | | | | | | |
| ★ | C1327 | 23T00136L60 | ELY., 1 μ F/50V | | | | | | |
| | C1328 | 08T57298F01 | CER., 0.1 μ F | | | | | | |
| | C1401 | 08T93192F47 | PS, 820pF | | | | | | |

Notes : ● : Japanese model only (JA), ■ : West Germany model only (AD), ▲ : North American model only (UZ),
★ : Canadian model only (UQ), Others : Common.

| Symbol No. | Part No. | Description | | | Symbol No. | Part No. | Description | | |
|------------|-------------|--------------------------------|--|--|-------------------------|-------------|----------------------------|--|--|
| C1402 | 08T93192F47 | PS, 820pF | | | VR1202 | 18B44064J10 | SOL. | | |
| C1403 | 08T00151L25 | PP., 0.01 μ F | | | | | 22K ohm 1/2W | | |
| C1404 | 08T00151L25 | PP., 0.01 μ F | | | VR1301 | 18B44064J10 | SOL. | | |
| C1405 | 23T81030F36 | ELY., 47 μ F/25V (B.P.) | | | | | 22K ohm 1/2W | | |
| C1406 | 23T81030F36 | ELY., 47 μ F/25V (B.P.) | | | VR1302 | 18B44064J10 | SOL. | | |
| | | | | | | | 22K ohm 1/2W | | |
| C1407 | 23T00138L38 | ELY., 33 μ F/35V | | | VR1303 | 18B44064J08 | SOL. | | |
| C1408 | 23T00138L38 | ELY., 33 μ F/35V | | | | | 2.2K ohm 1/2W | | |
| C1409 | 23T00138L61 | ELY., 33 μ F/63V | | | VR1401 | 18B44064J07 | SOL. | | |
| C1410 | 23T00138L61 | ELY., 33 μ F/63V | | | | | 100K ohm 1/2W | | |
| C1411 | 23T00138L61 | ELY., 33 μ F/63V | | | PHONE P. C. Board | | | | |
| C1412 | 23T00138L61 | ELY., 33 μ F/63V | | | IC | | | | |
| C1413 | 23T00138L61 | ELY., 33 μ F/63V | | | IC4001 | 51T81896F01 | M5216P | | |
| C1414 | 23T00138L61 | ELY., 33 μ F/63V | | | Jacks | | | | |
| C1415 | 23T00138L19 | ELY., 33 μ F/16V | | | J4001 | 09T67396F01 | Plate, Phone (OUTPUT L) | | |
| C1416 | 23T00138L19 | ELY., 33 μ F/16V | | | J4002 | 09T67396F01 | Plate, Phone (OUTPUT R) | | |
| C1417 | 08T00151L08 | PP., 390pF | | | J4003 | 09T74077F01 | Jack, Phones (PHONE) | | |
| C1418 | 08T00151L08 | PP., 390pF | | | Capacitors | | | | |
| C1419 | 08T00015L25 | PP., 0.01 μ F | | | C4001 | 23T00138L20 | ELY., 47 μ F/16V | | |
| C1501 | 23T00138L50 | ELY., 22 μ F/50V | | | C4002 | 23T00138L20 | ELY., 47 μ F/16V | | |
| C1502 | 23T00138L48 | ELY., 4.7 μ F/50V | | | C4003 | 08T57298F01 | CER., 0.1 μ F | | |
| C1506 | 23T00138L19 | ELY., 33 μ F/16V | | | Resistors | | | | |
| C1507 | 23T00138L19 | ELY., 33 μ F/16V | | | ■ R1101 | 06T66931F04 | MF., 2 ohm 1/4W | | |
| C1508 | 23T00138L19 | ELY., 33 μ F/16V | | | ▲ R1101 | 06T66931F04 | MF., 2 ohm 1/4W | | |
| ● C1509 | 08T90316F29 | TF., 0.1 μ F | | | ★ R1101 | 06T66931F04 | MF., 2 ohm 1/4W | | |
| ■ C1509 | 08T90316F29 | TF., 0.1 μ F | | | ■ R1102 | 06T66931F04 | MF., 2 ohm 1/4W | | |
| ▲ C1509 | 08T90316F29 | TF., 0.1 μ F | | | ▲ R1102 | 06T66931F04 | MF., 2 ohm 1/4W | | |
| ★ C1509 | 08T57851F13 | TF., 0.1 μ F | | | ★ R1102 | 06T66931F04 | MF., 2 ohm 1/4W | | |
| | | | | | ■ R1114 | 06T66931F04 | MF., 2 ohm 1/4W | | |
| | | | | | ▲ R1114 | 06T66931F04 | MF., 2 ohm 1/4W | | |
| | | | | | ★ R1114 | 06T66931F04 | MF., 2 ohm 1/4W | | |
| | | | | | ★ R1114 | 06T66931F04 | MF., 2 ohm 1/4W | | |
| | | | | | VR1201 | 18B44064J10 | SOL. 22K ohm 1/2W | | |
| | | | | | FL Keyboard P. C. Board | | | | |
| | | | | | IC's | | | | |
| | | | | | IC6001 | 51T74753F02 | 74753F02 | | |
| | | | | | IC6002 | 51T51507F01 | μ PD4028BC | | |
| | | | | | IC6003 | 51T84120F01 | BX1387 | | |
| | | | | | Transistors | | | | |
| | | | | | ● Q6001 | 48T64382F01 | 2SA790M | | |
| | | | | | ■ Q6001 | 48T64382F01 | 2SA790M | | |
| | | | | | ▲ Q6001 | 48T64382F01 | 2SA790M | | |
| | | | | | ★ Q6001 | 48T64382F03 | 2SA790M | | |
| | | | | | Q6003 | 48T82763F02 | DTC114EL | | |
| | | | | | Q6004 | 48T82763F02 | DTC114EL | | |

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★ : Canadian model only (UQ), Others : Common.

| Symbol No. | Part No. | Description | | |
|--------------------------------|-------------|--------------------------------------|--|--|
| Diode/LEDs | | | | |
| D6001 | 48T44813F01 | MA165TA | | |
| LD6001 | 48T60947F05 | LED, SLH-34VR3F (RED) | | |
| LD6002 | 48T60947F05 | LED, SLH-34VR3F (RED) | | |
| LD6003 | 48T60947F07 | LED, SLH-34DU3F (ORG) | | |
| Switches | | | | |
| S6001 | 40T83324F01 | Tact SKHHAP (0/C) | | |
| S6002 | 40T83324F01 | Tact SKHHAP (1) | | |
| S6003 | 40T83324F01 | Tact SKHHAP (2) | | |
| S6004 | 40T83324F01 | Tact SKHHAP (3) | | |
| S6005 | 40T83324F01 | Tact SKHHAP (4) | | |
| S6006 | 40T83324F01 | Tact SKHHAP (5) | | |
| S6007 | 40T83324F01 | Tact SKHHAP (6) | | |
| S6008 | 40T83324F01 | Tact SKHHAP (7) | | |
| S6009 | 40T83324F01 | Tact SKHHAP (8) | | |
| S6010 | 40T83324F01 | Tact SKHHAP (9) | | |
| S6011 | 40T83324F01 | Tact SKHHAP (10) | | |
| S6012 | 40T83324F01 | Tact SKHHAP (+10) | | |
| S6013 | 40T83324F01 | Tact SKHHAP (TIME) | | |
| S6014 | 40T83324F01 | Tact SKHHAP (REPEAT) | | |
| S6015 | 40T83324F01 | Tact SKHHAP (A→B) | | |
| S6016 | 40T83324F01 | Tact SKHHAP (STOP) | | |
| S6017 | 40T83324F01 | Tact SKHHAP (PAUSE) | | |
| S6018 | 40T83324F01 | Tact SKHHAP (PLAY) | | |
| S6019 | 40T83324F01 | Tact SKHHAP (SCAN) | | |
| S6020 | 40T83324F01 | Tact SKHHAP (PROG) | | |
| S6021 | 40T83324F01 | Tact SKHHAP (CHECK) | | |
| S6022 | 40T83324F01 | Tact SKHHAP (CLEAR) | | |
| S6023 | 40T83324F01 | Tact SKHHAP (←INDEX) | | |
| S6024 | 40T83324F01 | Tact SKHHAP (INDEX→) | | |
| S6025 | 40T83324F01 | Tact SKHHAP (FF WD) | | |
| S6026 | 40T83324F01 | Tact SKHHAP (FB WD) | | |
| S6027 | 40T83324F01 | Tact SKHHAP (F.SKIP) | | |
| S6028 | 40T83324F01 | Tact SKHHAP (B.SKIP) | | |
| Crystal/Capacitors | | | | |
| X6001 | 91T60592F02 | Crystal, Lock, 4.19MHz | | |
| C6001 | 08T55260F09 | CER., 4.7pF | | |
| C6002 | 08T55260F09 | CER., 4.7pF | | |
| C6003 | 23S57422F12 | ELY., 33 μ F/10V | | |
| C6004 | 23S57422F14 | ELY., 47 μ F/6.3V | | |
| Digital Out Switch P. C. Board | | | | |
| Switch/Lamps | | | | |
| S7001 | 40T65584F01 | Switch, SPH 221H (DIGITAL OUT) | | |
| ● PL7001 | 65T80326F01 | Pilot (5V-150mA) | | |
| ■ PL7001 | 65T80326F01 | Pilot (5V-150mA) | | |
| ▲ PL7001 | 65T80326F01 | Pilot (5V-150mA) | | |
| ★ PL7001 | 65T80326F02 | Pilot (5V-150mV) | | |
| Power Switch P. C. Board | | | | |
| Lamp/Switch | | | | |
| L8001 | 24T82315F01 | Choke, Filter, FKOB160MH02 | | |
| S8001 | 40T84122F01 | Switch, Power SDDLE (POWER) | | |
| Capacitors | | | | |
| C8001 | 08T57437F09 | CER., 0.01 μ F | | |
| C8002 | 08T57437F09 | CER., 0.01 μ F | | |
| C8003 | 08T57437F09 | CER., 0.01 μ F | | |
| Digital Out P. C. Board | | | | |
| IC/Inductor | | | | |
| IC9001 | 51T84772F01 | IC, TOTX172 | | |
| L9001 | 24T50508F22 | Inductor 10 μ H | | |
| Transformer/Jack | | | | |
| T9001 | 25T90530F01 | TRANS., PULS | | |
| J9001 | 09T84775F01 | Plate, Phone Jack (DIGITAL OUT COAX) | | |

Notes : ● : Japanese model only (JA), ■ : West Germany model only (AD), ▲ : North American model only (UZ), ★ : Canadian model only (UQ), Others : Common.

| Symbol No. | Part No. | Description | | | Symbol No. | Part No. | Description | | |
|---------------|----------|-------------|------------------------|----------------|------------|----------|-------------|--|--|
| Capacitors | | | | | | | | | |
| ● | C9001 | 08T93192F49 | PS, | 1000pF | | | | | |
| ■ | C9001 | 08T93192F49 | PS, | 1000pF | | | | | |
| ▲ | C9001 | 08T93192F49 | PS, | 1000pF | | | | | |
| ★ | C9001 | 08T00015L13 | PP., | 1000pF | | | | | |
| | C9002 | 23T00138L19 | ELY., | 33 μ F/16V | | | | | |
| | C9003 | 23T00138L19 | ELY., | 33 μ F/16V | | | | | |
| Miscellaneous | | | | | | | | | |
| | C2001 | 08S40154T43 | CAP., CER., | 330pF | | | | | |
| | C2002 | 08S40154T43 | CAP., CER., | 330pF | | | | | |
| | C2003 | 08S40154T43 | CAP., CER., | 330pF | | | | | |
| ■ | F8001 | 65T42077U19 | Fuse, Semko | (4A-125V) | | | | | |
| ▲ | F8001 | 65T66926F03 | Fuse, Semko | (4A-125V) | | | | | |
| ★ | F8001 | 65T66926F03 | Fuse, 51NM | (4A-125V) | | | | | |
| | FL6001 | 65T80320F01 | FL, Display | | | | | | |
| | HD2001 | 88T81528F01 | Head, Optical Pick-up | | | | | | |
| | M2001 | 01V81800F56 | Assy., Motor Loading | | | | | | |
| | M2002 | 59T81431F01 | Motor, Spindle | | | | | | |
| | M2003 | 59T81432F01 | Motor, Slider | | | | | | |
| ■ | P8001 | 28T43182P04 | Plug, AC Cord | | | | | | |
| ▲ | P8001 | 28T55335F02 | Plug, AC Cord | | | | | | |
| ● | P8001 | 28T67434F04 | Plug, AC Cord (12A) | | | | | | |
| ★ | P8001 | 28T55335F02 | Plug, AC Cord | SPT-2-P | | | | | |
| | VR4001 | 18T84123F01 | Res., Volume, RK9A00 | | | | | | |
| | S2001 | 40T71025F01 | Switch, Detector | (OUT) | | | | | |
| | S2002 | 40T71025F01 | Switch, Detector (IN) | | | | | | |
| | S2003 | 40T71025F01 | Switch, Detector | (LIMIT) | | | | | |
| | S3001 | 40T84005F01 | Switch, Slide SSSU1 | (TIMER) | | | | | |
| ■ | S8002 | 40T80258F02 | Switch, Voltage Select | | | | | | |
| ● | T8001 | 25T84728F01 | Trans., Power | | | | | | |
| ■ | T8001 | 25T90690F01 | Trans., Power | | | | | | |
| ▲ | T8001 | 25T90692F01 | Trans., Power | | | | | | |
| ★ | T8001 | 25T90692F01 | Trans., Power | | | | | | |

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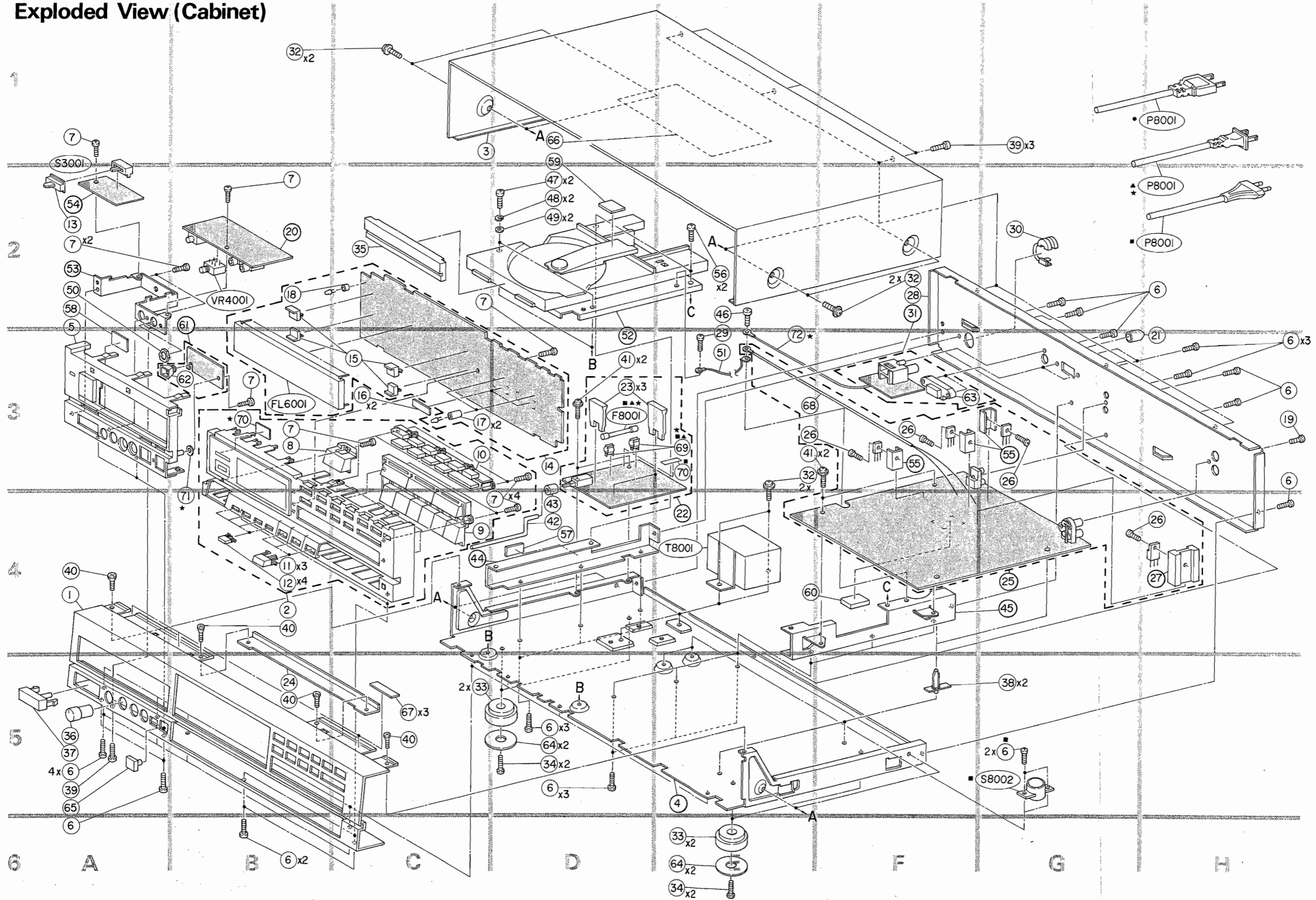
Cabinet Assembly Parts List

NOTE : The parts without part numbers are not supplied.

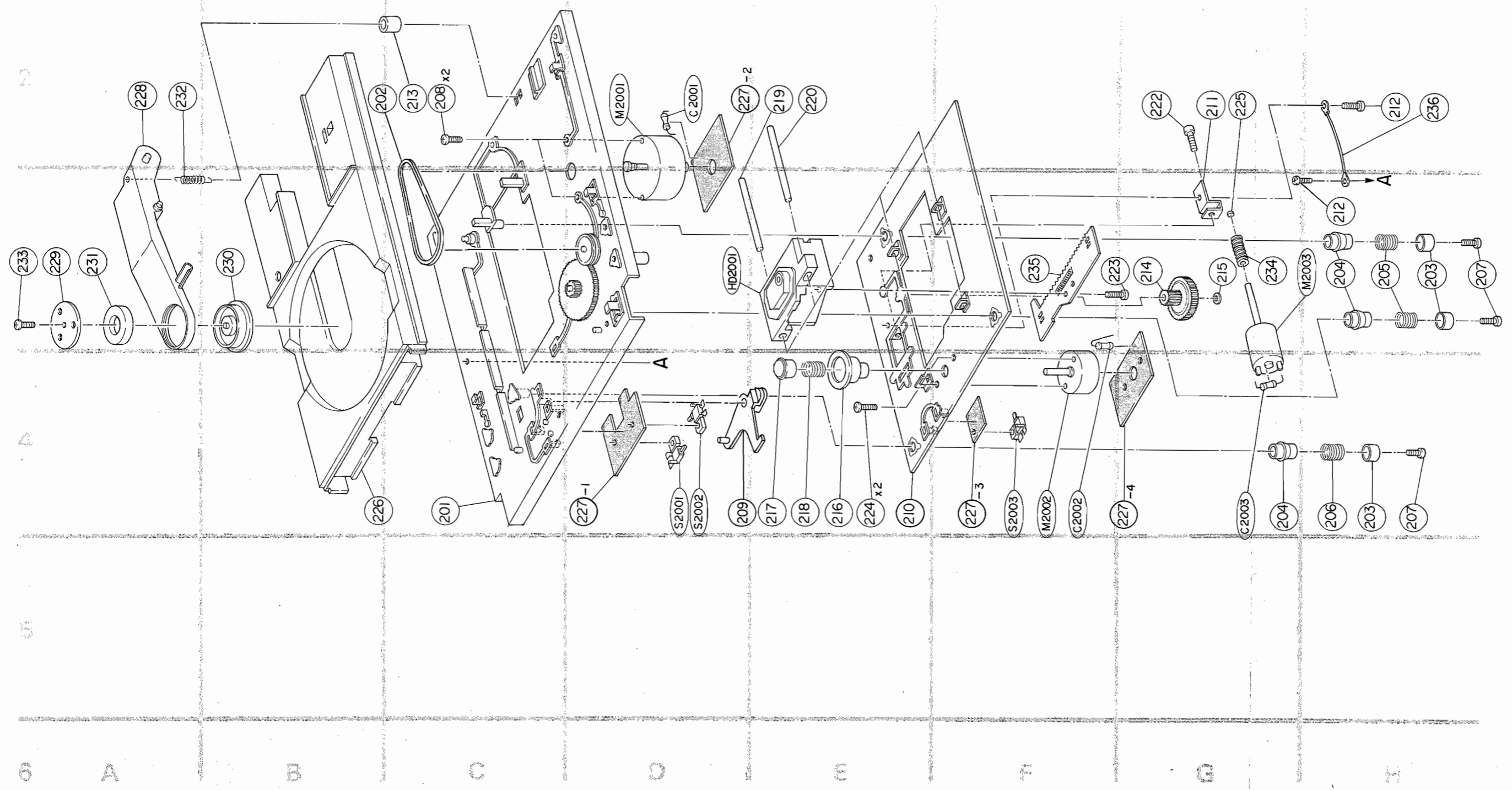
| Symbol No. | Index | Part No. | Description | Symbol No. | Index | Part No. | Description |
|------------|-------|-----------------|-------------------------------|------------|-------|-----------------|------------------------------|
| ▲ | 1 | 4-A 64D83886F05 | Panel, Front | 38 | 5-G | 07A91046F01 | Support, P.C.B. |
| ■ | 1 | 4-A 64D83886F05 | Panel, Front | 39 | | 03S82672F18 | Screw, Bind (M3 × 6) |
| ● | 1 | 4-A 64D83886F06 | Panel, Front | 40 | | 03S40012G98 | Screw, Tapping (M3 × 8) |
| ★ | 1 | 4-A 64D83886F05 | Panel, Front | 41 | | 03S40018G08 | Screw, Tapping (M3 × 8) |
| | 2 | 4-B 07C91020F01 | Assy., Front Frame | 42 | 4-D | 47A83883F01 | Shaft, Power |
| | 3 | 1-C 15C83872F02 | Cover, Top | 43 | 4-D | 43A83885F01 | Spacer, Rubber |
| | 5 | 2-A 07D83863F04 | Frame, Front | 46 | 2-E | 03S40012G48 | Screw, Tapping (M3 × 6) |
| | 6 | 03S71031F04 | Screw, Bind (M3 × 8) | 47 | 1-D | 03A83946F01 | Screw, Special (M3 × 35) |
| | 7 | 03S71031F02 | Screw, Bind (M2.6 × 8) | 48 | 2-D | 04S40071G14 | Washer Spring Lock (M4.1) |
| | 8 | 3-B 36B83866F01 | Knob, Eject | 49 | 2-D | 04S40070G59 | Washer Flat (M4.1) |
| | 9 | 4-C 36B83865F02 | Knob, Logic | 50 | 2-A | 02S40000G39 | Nut, Hex (M7) |
| | 10 | 3-C 36B83864F02 | Knob, Ten Key | 51 | 3-E | 01T84733F11 | Assy., Lug Wire |
| | 11 | 4-B 36A83868F01 | Knob, Tact (L) | 56 | 2-E | 03S40018G06 | Screw, Tapping (M3 × 16) |
| | 12 | 4-B 36A83867F01 | Knob, Tact (S) | 57 | 4-D | 14S81481F56 | Insulator, Cover |
| | 13 | 2-A 36A80166F01 | Knob, Timer Switch | 58 | 2-A | 14S81481F71 | Insulator, Cover |
| | 14 | 3-D 01V84500F25 | Assy., FL/ Keyboard P.C.B. | 59 | 1-D | 14S81481F72 | Insulator, Cover |
| | 15 | 3-C 07A83876F01 | Support, FL | 60 | 4-E | 75S92415F12 | Cushion, Rubber |
| | 16 | 3-C 14S81481F57 | Insulator, Cover | 62 | 3-B | 43A80198F01 | Bush, Lamp |
| | 17 | 3-C 43A53357F04 | Spacer, LED | 63 | 3-F | 07A84472F01 | Fram Optical Output Jack |
| | 18 | 2-B 43A53357F01 | Spacer, LED (A) | 64 | | 75A67064F01 | Felt |
| | 19 | 3-H 03S82672F20 | Screw, Bind (M3 × 8) | 64 | | 75A67064F01 | Felt |
| | 21 | 2-H 16T82537F01 | Cap, Pin Jack | 64 | | 75A94848F01 | Pad, Felt |
| | 23 | 3-D 43T53136F01 | Bush, Cap | 65 | 5-A | 36A83871F01 | Knob, Push (Digital) |
| | 24 | 5-B 07A84422F01 | Bracket, Panel | 66 | 1-D | 14S81482F59 | Insulator, Cover |
| | 26 | 03S43997P76 | Screw, Bind (M3 × 6) | 67 | 5-C | 14S53017F64 | Insulator, Cover |
| ■ | 28 | 2-F 15C83873F07 | Cover, Rear | 68 | 3-E | 01T84733F12 | Assy., Lug Wire |
| ● | 28 | 2-F 15C83873F08 | Cover, Rear | 69 | 3-E | 09T51410F01 | Holder, Fuse (SEMKO) |
| ▲ | 28 | 2-F 15C83873F09 | Cover, Rear | 69 | 3-E | 09T51410F01 | Holder, Fuse (SEMKO) |
| ★ | 28 | 2-F 15C83873F13 | Cover, Rear | ★ | 69 | 09T93096F01 | Holder, Fuse |
| | 29 | 2-E 03S44205G30 | Screw, Pan (M2.6 × 4) | ■ | 70 | 3-E 54B62266F16 | Label, Fuse (4A-125V) |
| | 30 | 2-G 43B41625J02 | Support, Cord | ★ | 70 | 3-E 14S81481F93 | Insulator, Cover |
| | 32 | 03S40036U01 | Screw, Pan (M4 × 8) | ★ | 71 | 04S40075G19 | Washer, Polyslider (M4.1) |
| | 33 | 01A80230F01 | Assy., Trannleg | ★ | 72 | 01T92973F01 | Assy., Lug Wire (1P) |
| | 34 | 03S44205G20 | Screw, Pan (M4 × 12) | | | | |
| ● | 35 | 64B83869F02 | Panel, Tray | | | | |
| ▲ | 35 | 2-C 64B83869F04 | Panel, Tray | | | | |
| ■ | 35 | 2-C 64B83869F04 | Panel, Tray | | | | |
| ★ | 35 | 2-C 64B83869F04 | Panel, Tray | | | | |
| | 36 | 5-A 36A55234F04 | Knob, Control | | | | |
| | 37 | 5-A 36A83870F01 | Knob, Power | | | | |

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Exploded View (Cabinet)



Exploded View (CD Mechanism)



CD Mechanism Assembly Parts List

| Symbol No. | Index | Part No. | Description | | | Symbol No. | Index | Part No. | Description | | |
|------------|-------|-------------|-------------------------------|--|--|------------|-------|----------|-------------|--|--|
| 201 | 4-C | 01B82391F01 | Assy., Main Chassis | | | | | | | | |
| 202 | 2-C | 42A81427F01 | Belt, Drive | | | | | | | | |
| 203 | | 43A81407F01 | Bush, Damper | | | | | | | | |
| 204 | | 75A81411F01 | Rubber, Damper | | | | | | | | |
| 205 | 3-H | 41A81428F03 | Spring, Compression | | | | | | | | |
| 206 | 4-H | 41A81428F05 | Spring, Compression | | | | | | | | |
| 207 | | 03S40012G18 | Screw, Tapping (M2.6 × 6) | | | | | | | | |
| 208 | 2-C | 03D40014G19 | Screw, W/Washer (M2.6 × 5) | | | | | | | | |
| 209 | 4-E | 45A81434F01 | Arm, Switch | | | | | | | | |
| 211 | 2-G | 07A82322F01 | Bracket, Washer | | | | | | | | |
| 212 | | 03S44205G30 | Screw, Pan (M2.6 × 4) | | | | | | | | |
| 213 | 2-C | 37S40133J16 | Tube UL (20mm) | | | | | | | | |
| 214 | 3-G | 44A81401F01 | Gear, Worm Wheel | | | | | | | | |
| 215 | 3-G | 04A41345P02 | Washer, Lock (M1.7) | | | | | | | | |
| 216 | 4-E | 49B81414F01 | Table, Disc | | | | | | | | |
| 217 | 4-E | 49B81417F01 | Disc, Guide | | | | | | | | |
| 218 | 4-E | 41A81428F01 | Spring, Compression | | | | | | | | |
| 219 | 2-E | 47A81426F01 | Shaft, Head | | | | | | | | |
| 220 | 2-E | 47A81426F02 | Shaft, Head | | | | | | | | |
| 221 | | 04S40075G12 | Washer, Polyslider (M3.1) | | | | | | | | |
| 222 | 2-G | 03D40014G61 | Screw, W/Washer (M2 × 5) | | | | | | | | |
| 223 | 3-G | 03S70494F01 | Screw, Bind (M2 × 5) | | | | | | | | |
| 224 | 4-E | 03D40014G07 | Screw, W/Washer (M2 × 4) | | | | | | | | |
| 225 | 2-G | 43A41182P02 | Ball Steel | | | | | | | | |
| 226 | 4-B | 01C81529F01 | Assy., Tray Disc | | | | | | | | |
| 228 | 2-A | 45C81418F01 | Arm, Clamp | | | | | | | | |
| 229 | 3-A | 07A81413F01 | Bracket, Magnet | | | | | | | | |
| 230 | 3-B | 49A81403F01 | Wheel, Clamp | | | | | | | | |
| 231 | 3-A | 59T81430F01 | Magnet | | | | | | | | |
| 232 | 2-A | 41B81429F02 | Spring, Extension | | | | | | | | |
| 233 | 3-A | 03S68555F17 | Screw, Bind (M2 × 4) | | | | | | | | |
| 234 | 3-G | 44A81424F01 | Worm, Drive | | | | | | | | |
| 235 | 3-F | 01A82323F01 | Assy., Rack | | | | | | | | |
| 236 | 2-H | 01T92483F01 | Assy., Lug Wire 1P | | | | | | | | |

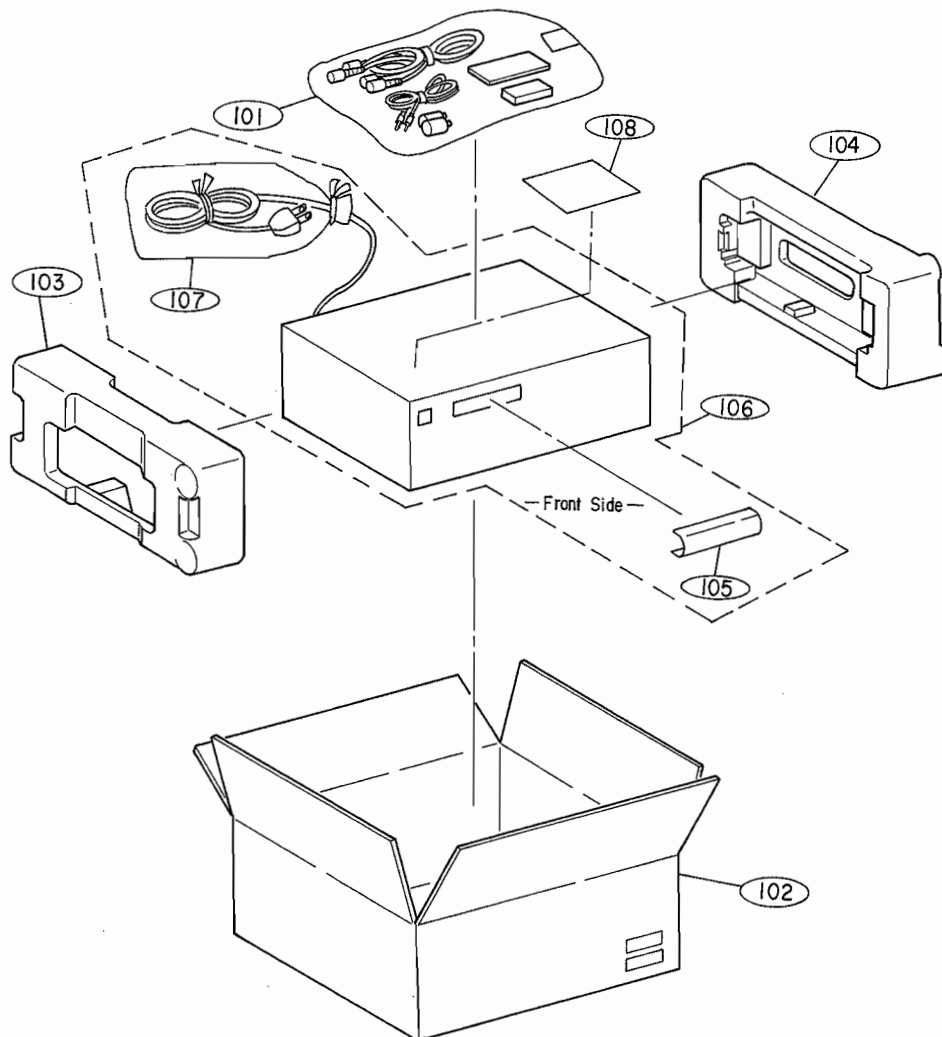
NOTE: The parts without part numbers are not supplied.

Packing Assembly Parts List

| Symbol No. | Part No. | Description | Symbol No. | Part No. | Description |
|------------|----------|--------------------------------------|------------|-------------|-----------------------------|
| ■ | 101-1 | 68P81707F74 Owners Manual | 101-5 | 60T58064F01 | Battery, SUM-3 |
| ▲ | 101-1 | 68P81707F75 Owners Manual | 101-6 | 01T84773F01 | Fiber, Tocc 172-150CB |
| ● | 101-1 | 68P81707F80 Owners Manual | ● | 102 | 56S83833F10 Carton, Packing |
| ★ | 101-1 | 68P81707F74 Owners Manual | ■ | 102 | 56S83833F12 Carton, Packing |
| | 101-2 | 28T70621F03 Plug, Output | ▲ | 102 | 56S83833F12 Carton, Packing |
| | 101-3 | 01T82091F01 Assy., Mini Plug Cord | ★ | 102 | 56S83833F12 Carton, Packing |
| ● | 101-4 | 01T80478F01 Unit, Remocon (RD109 AL) | 103 | 56D90648F01 | Tray, Packing |
| ■ | 101-4 | 01T80478F02 Unit, Remocon (RD109 AD) | 104 | 56D90649F01 | Tray, Packing |
| ▲ | 101-4 | 01T80478F02 Unit, Remocon (RD109 LX) | 105 | 56B40442T19 | Packing, Front Frame |
| ★ | 101-4 | 01T80478F02 Unit Remocon (RD109 LX) | 106 | 56B40230G23 | Sack, Polyethylene |
| | | | 107 | 56B40230G08 | Sack, Polyethylene |
| | | | 108 | 56A93246F01 | Pad, Packing |

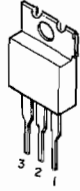
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Packing Method View

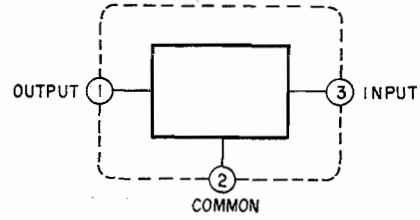


Semi-Conductor Lead Identifications

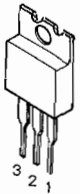
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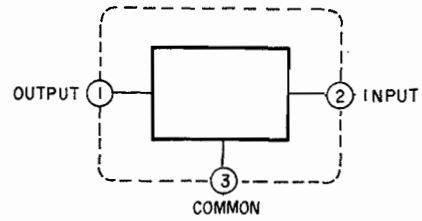
- 1 : OUTPUT
- 2 : COMMON
- 3 : INPUT



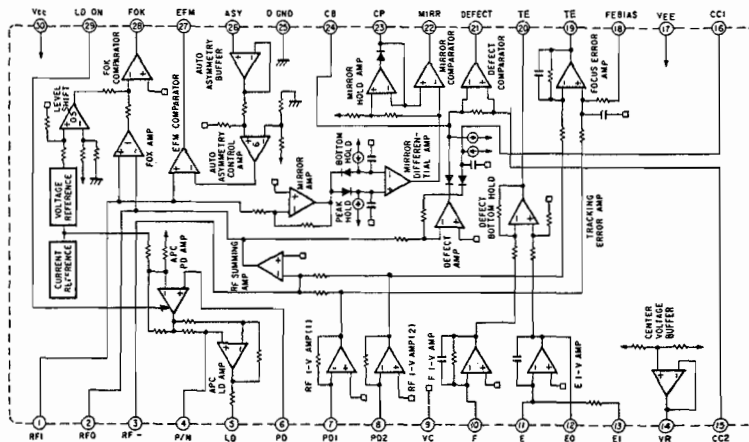
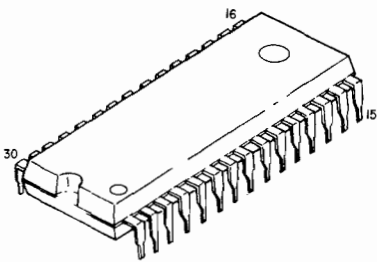
NJM7905 : IC1102



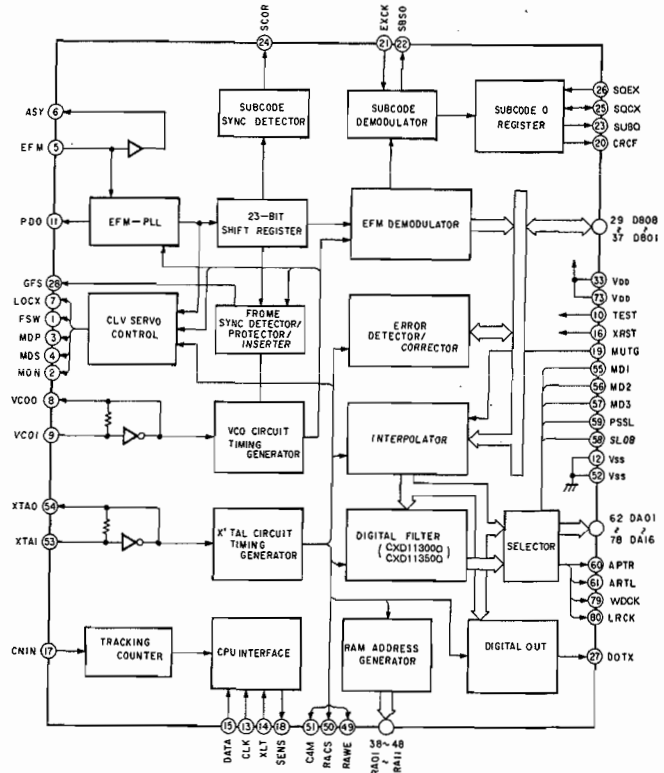
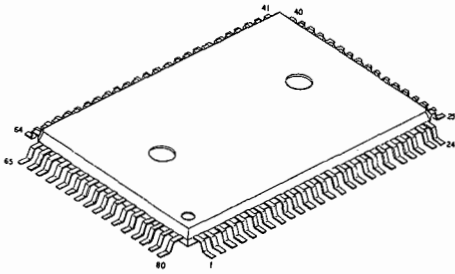
- 1 : OUTPUT
- 2 : INPUT
- 3 : COMMON



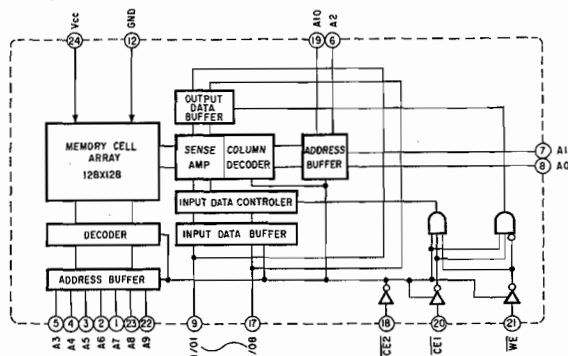
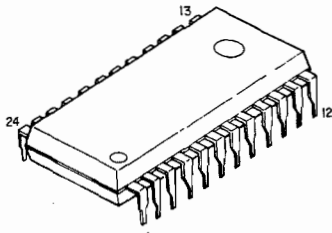
CXA1081S : IC1201



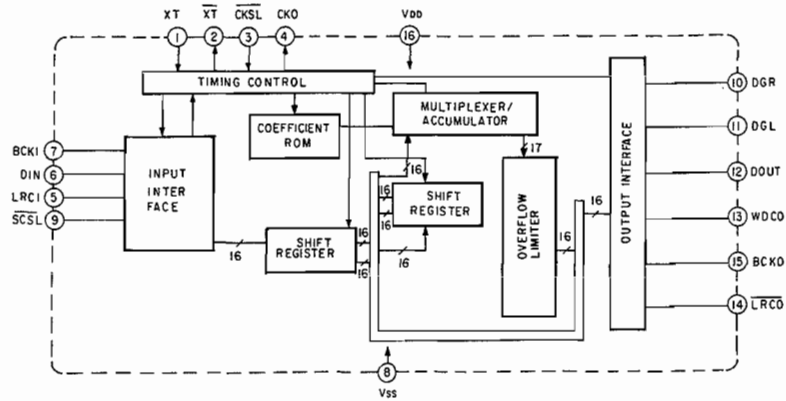
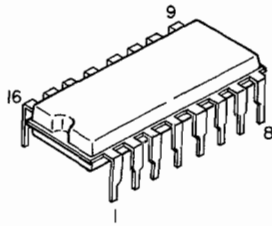
CXD1125QZ : IC1202



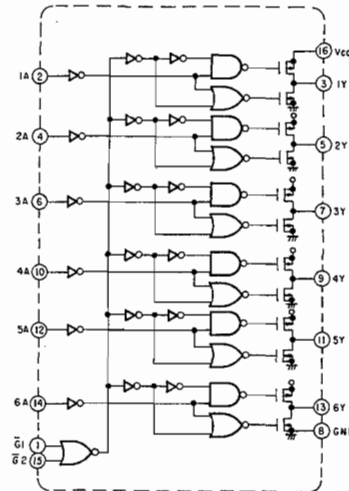
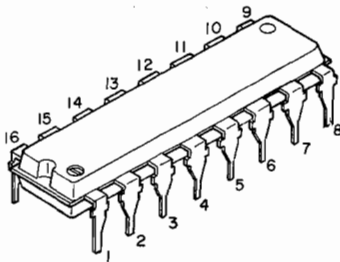
LC3516AS15 : IC1203



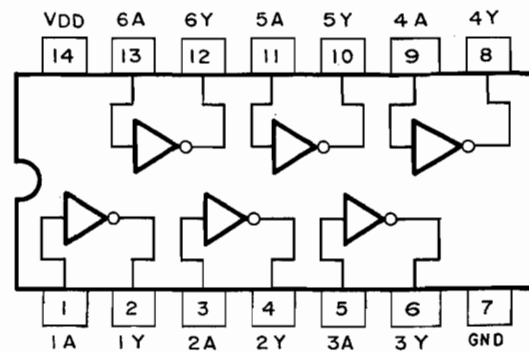
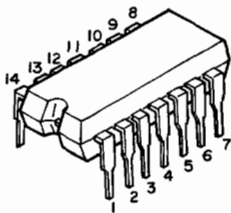
SM5807BP : IC1204



HD74HC366P : IC1205 ★

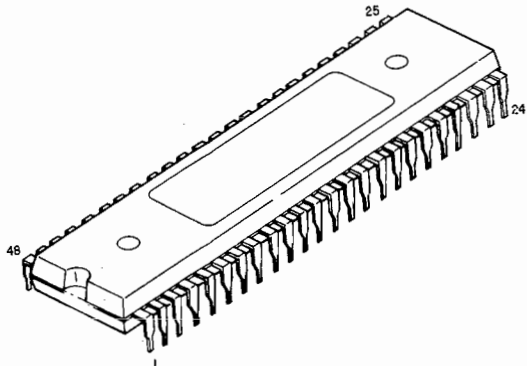


TC74HCU04P : IC1205 ●■▲

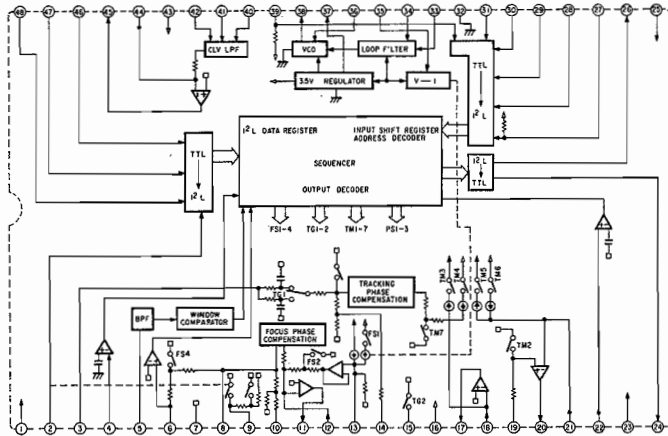


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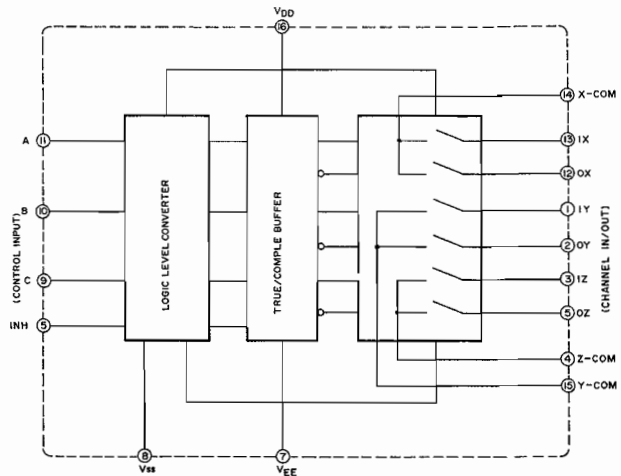
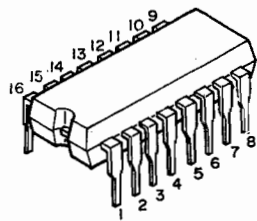
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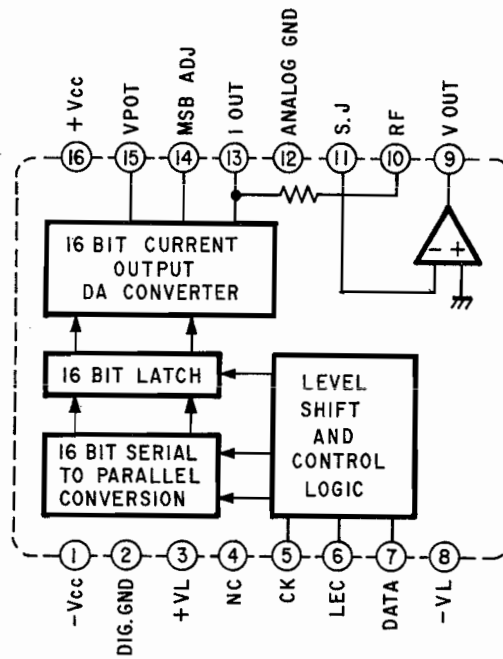
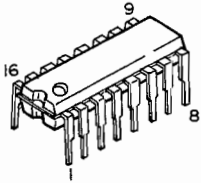
| | | | |
|-------|----|----|--------|
| DVEE | 1 | 48 | MIRR |
| DFCT | 2 | 47 | FOK |
| TE | 3 | 46 | WDCK |
| TZC | 4 | 45 | SPDL0 |
| ATSC | 5 | 44 | SPDL ⊖ |
| FE | 6 | 43 | DVcc |
| VC | 7 | 42 | FSW |
| FGD | 8 | 41 | MON |
| FS3 | 9 | 40 | MDP |
| FLB | 10 | 39 | LOCK |
| FE0 | 11 | 38 | C864 |
| FE ⊖ | 12 | 37 | 3.5V |
| SRCH | 13 | 36 | VCOF |
| TGU | 14 | 35 | iset |
| TG2 | 15 | 34 | PDI |
| AVcc | 16 | 33 | BW |
| TA0 | 17 | 32 | DgND |
| TA ⊖ | 18 | 31 | CLK |
| SL ⊕ | 19 | 30 | XLT |
| SL0 | 20 | 29 | DATA |
| SL ⊖ | 21 | 28 | XRST |
| SSTOP | 22 | 27 | DIRC |
| FSET | 23 | 26 | C. OUT |
| SENS | 24 | 25 | AV EE |



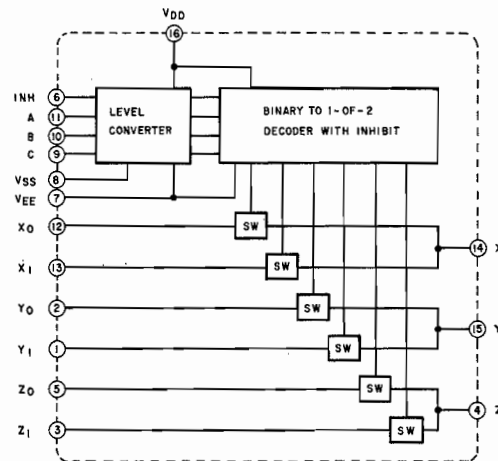
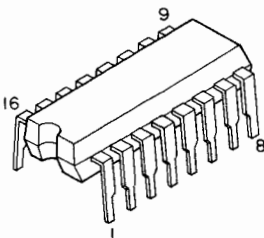
TC4053BP : IC1302



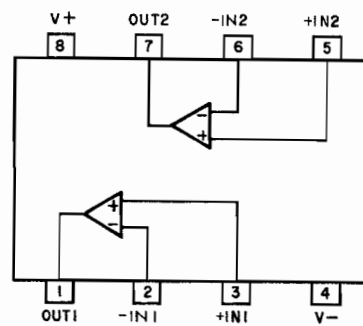
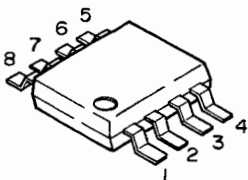
PCM56JP : IC1401



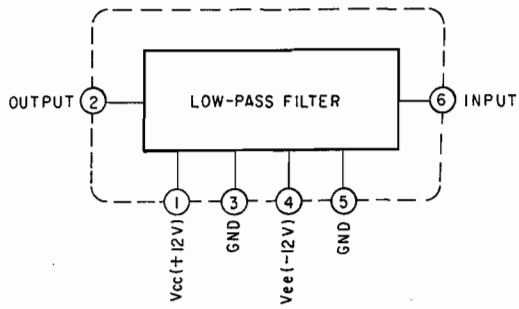
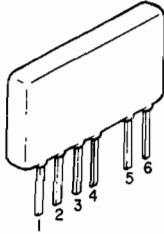
μ PD4053BC : IC1402



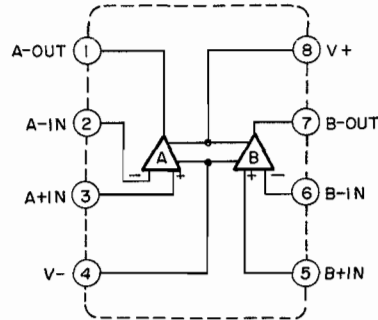
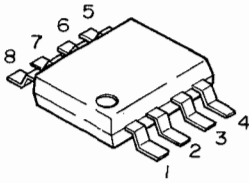
M5238P : IC1403, 1407, 1408



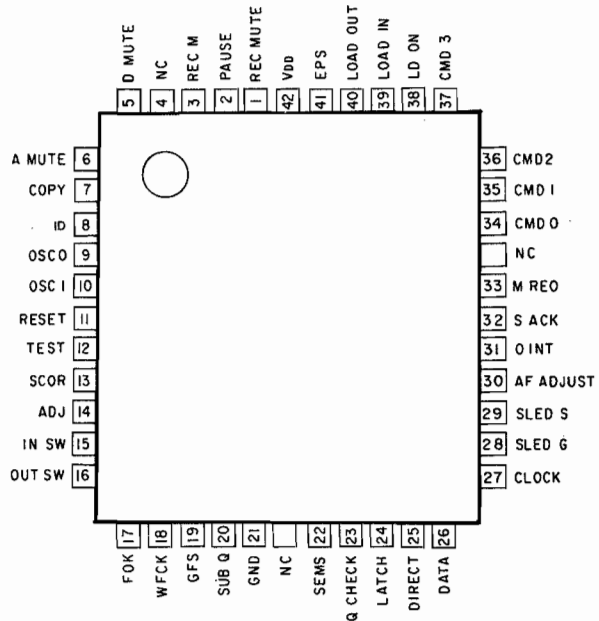
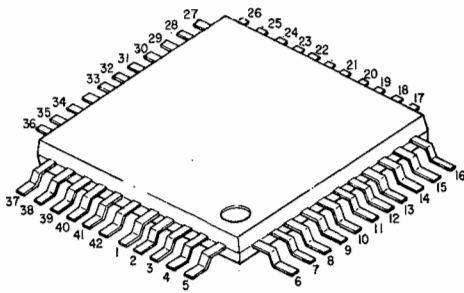
LP22D5B3YS : IC1405, 1406



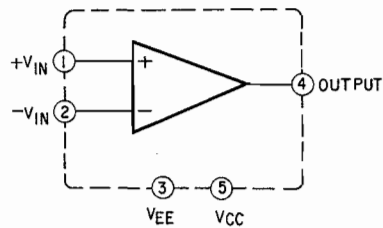
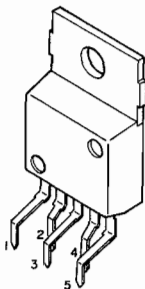
NJM2903D : IC1501



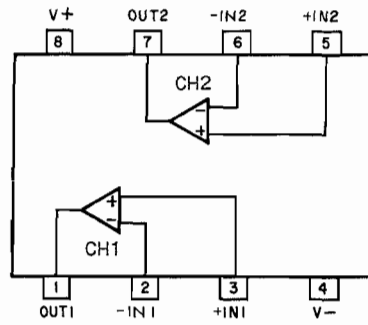
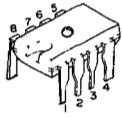
M6404A : IC1502



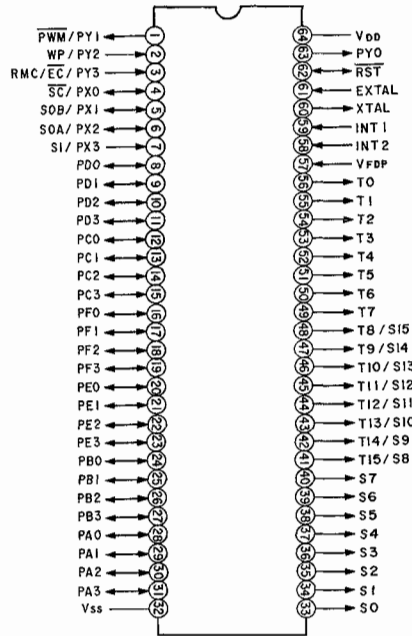
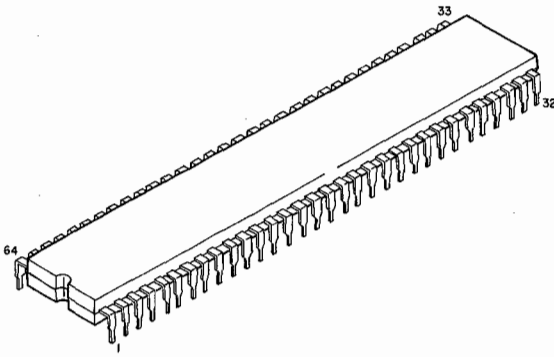
LA6500 : IC1503



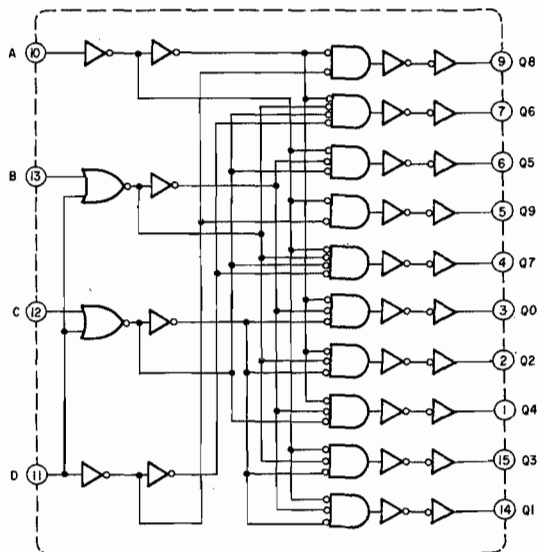
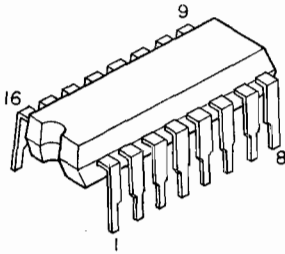
M5216P : IC4001



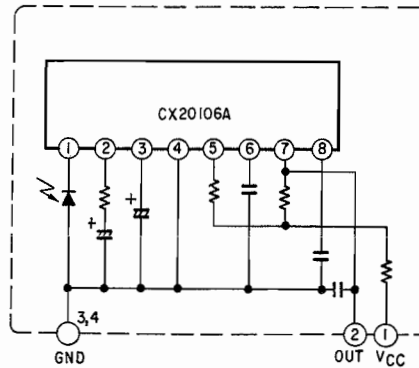
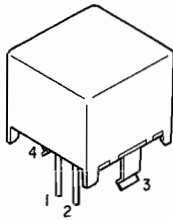
74753F01 : IC6001



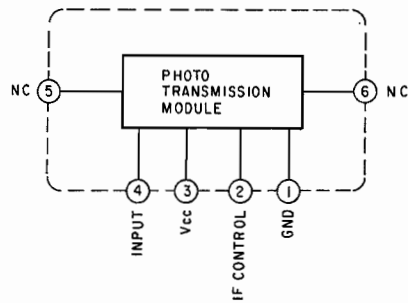
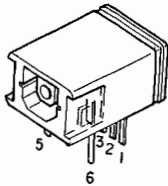
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BX1387 : IC6003



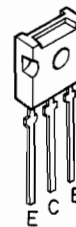
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2SA1015 : Q1101, 1104, 1506
 2SC1815 : Q1102, 1103
 2SD1302 : Q1507 (★)

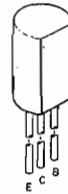


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 2SA1358 : Q1106

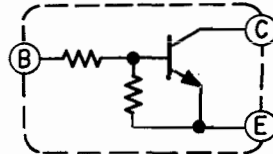
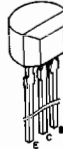


Notes : ● : Japanese model only (JA), ■ : West Germany model only (AD), ▲ : North American model only (UZ), ★ : Canadian model only (UQ), Others : Common.

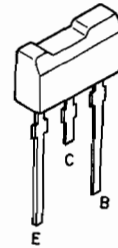
2SB560 : Q1107, 1203



DTC114 : Q1201, 1202, 1309, 1505, 1507
Q1310 (●, ■, ▲)



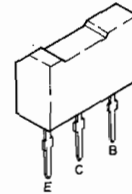
2SB1240 : Q1301, 1303, 1305, 1307
2SD1862 : Q1302, 1304, 1306, 1308



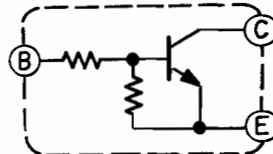
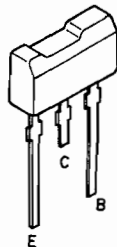
2SK246 : Q1401, 1402



2SA790 : Q6001



DTC114EL : Q6003, 6004



Notes : ● : Japanese model only (JA), ■ : West Germany model only (AD), ▲ : North American model only (UZ), ★ : Canadian model only (UQ), Others : Common.