



**CPC464
CPC6128**

GT65

CTM644

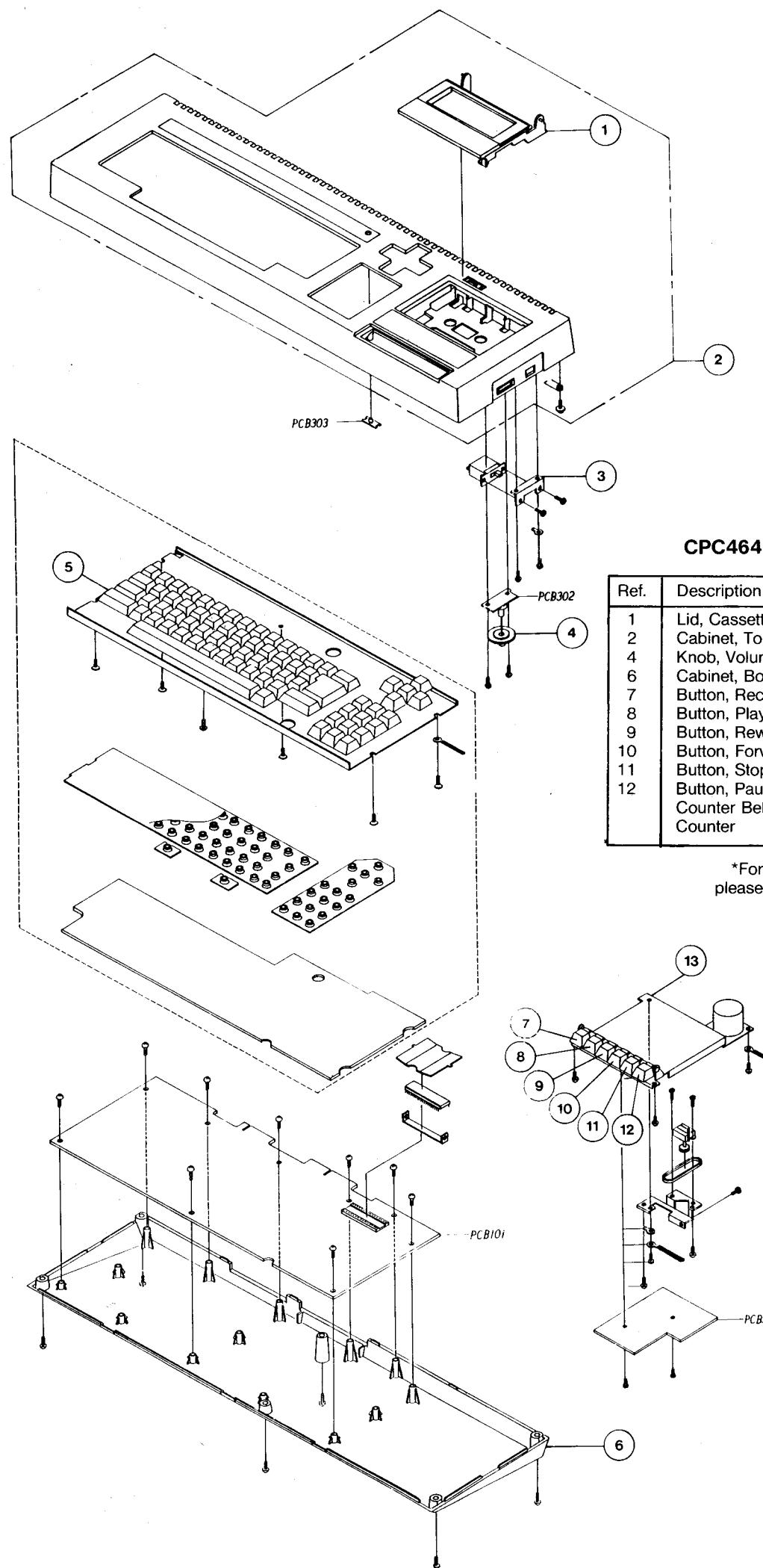
MP3

CT1

**AMENDMENT
SERVICE MANUAL**

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CPC464 SECTION



CPC464 CABINET PARTS LIST

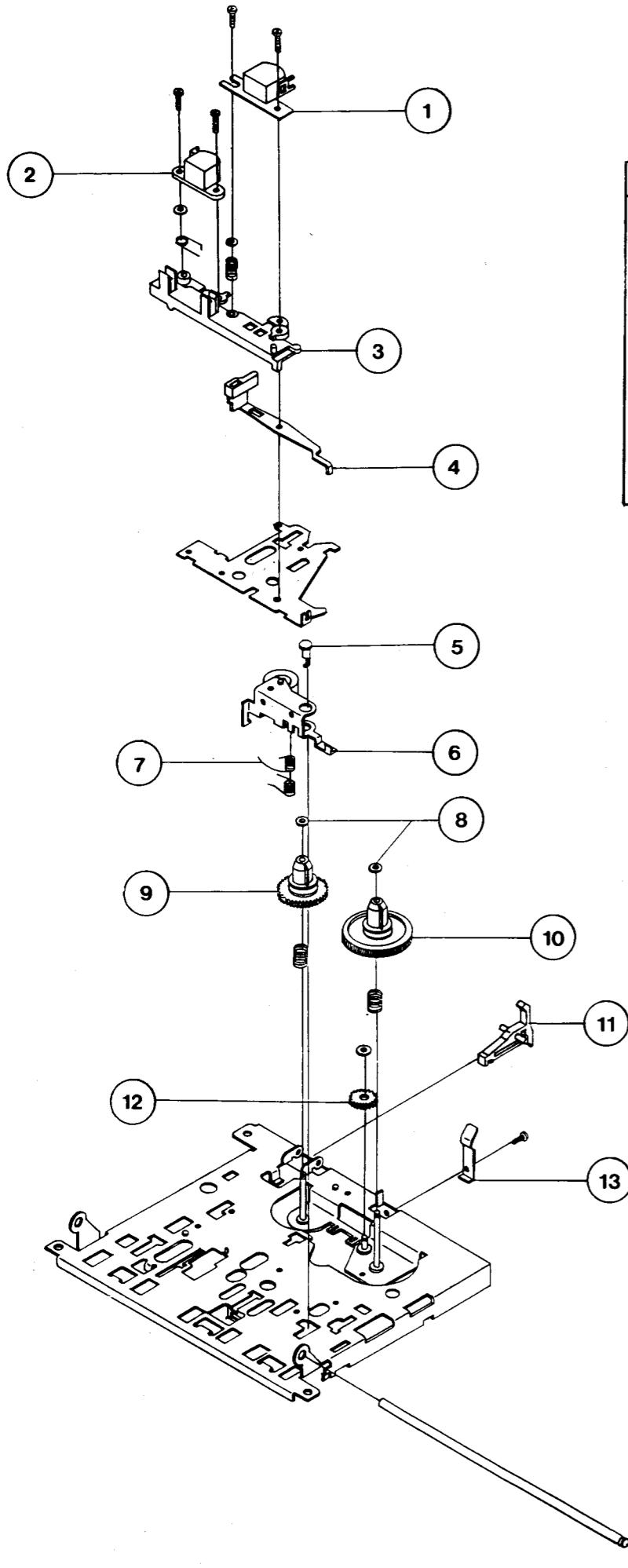
| Ref. | Description | Part No. |
|------|------------------------|----------|
| 1 | Lid, Cassette Assembly | 170006 |
| 2 | Cabinet, Top Assembly | 170031/A |
| 4 | Knob, Volume | 170004 |
| 6 | Cabinet, Bottom | 170030/A |
| 7 | Button, Record | 170015 |
| 8 | Button, Play | 170016 |
| 9 | Button, Rewind | 170017 |
| 10 | Button, Forward | 170018 |
| 11 | Button, Stop/Eject | 170019 |
| 12 | Button, Pause | 170020 |
| | Counter Belt | 170014 |
| | Counter | 170013 |

*For parts not listed in this please refer to original manual.

CPC464 ELECTRICAL PARTS LIST

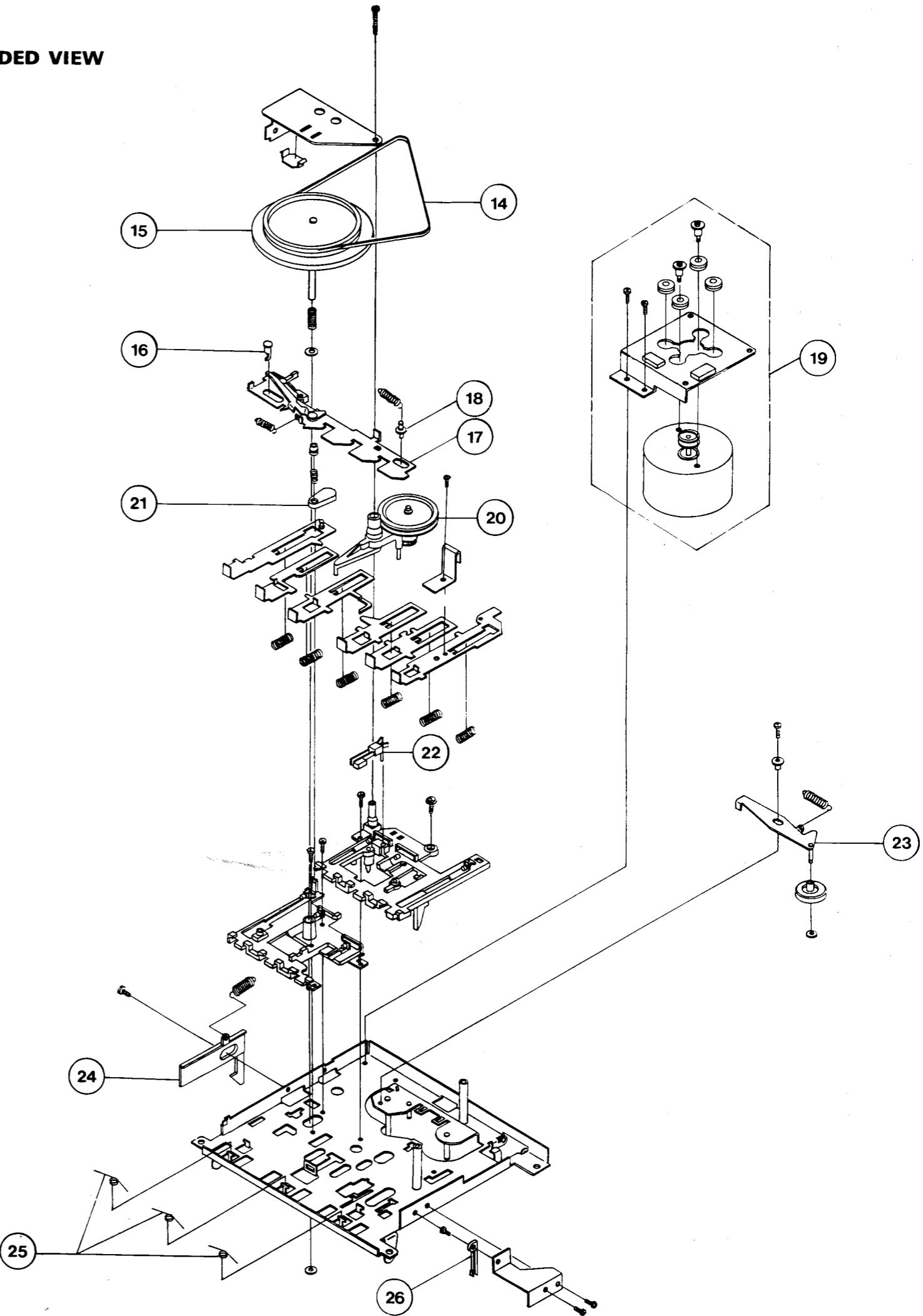
| Ref. No. | Description | Part No. |
|--------------------------|------------------------------------|----------|
| IC's | | |
| IC101 | IC DN74LS145 | 170101 |
| IC102 | IC AY-3-8912 | 40001 |
| IC103 | IC Amstrad 40009 | 170102 |
| IC104, 105, 109, 113 | IC DN74LS153 | 170103 |
| IC106 | IC DN74LS273 | 170104 |
| IC107 | IC TMP-8255AP | 170105 |
| IC108 | IC HD6845SP | 170106 |
| IC110 | IC DN74LS132 | 170107 |
| IC111 | IC Z8400APS | 40080 |
| IC112 | IC DN74LS32 | 40013 |
| IC114 | IC DN74LS373 | 170108 |
| IC115 | IC DN74LS244 | 170109 |
| IC116 | IC AMS40010 | 40010 |
| IC117-124 | IC KM4164B-15 | 170110 |
| IC125 | IC TC74HCU04AP | 40008/A |
| IC301 | IC LA4140 | 170111 |
| IC302 | IC LA6324 | 170112 |
| Transistors | | |
| Q101 | TR KTC2120Y | 170113 |
| Q102, 301 | TR KTC1815-T | 170447 |
| Diodes | | |
| D101 | D 1S2472T-77 | 170115 |
| D301 | D 1N4002 | 400111 |
| D302 | LED | 170116 |
| Ref. No. | Description | Part No. |
| Coils | | |
| L301 | Coil 82 μ H | 170117 |
| Crystals | | |
| X101 | Crystal HC-49/U | 170125 |
| Switches | | |
| SW301 | Switch, Slide | 170122-A |
| SW302 | Switch, Slide | 170002 |
| SW303 | Switch, Key Board | 170007-C |
| Variable Resistor | | |
| VR301 | VR Rotary 20k Ω | 170003 |
| Miscellaneous | | |
| R326 | Resistor Fuse 4.7 Ω /1/4W | 170130 |
| NR101 | Resistor Network 2.2k Ω x 6 | 170131 |
| SP301 | Speaker | 170124 |
| RY301 | Relay | 170123 |
| Sockets | | |
| J101 | Jack DIN | 170025 |
| J102 | Socket, D Sub 9 Pin | 170023-2 |
| J103 | Jack 3.5 | 170022 |
| J104 | Jack DC | 170024 |

DECK EXPLODED VIEW

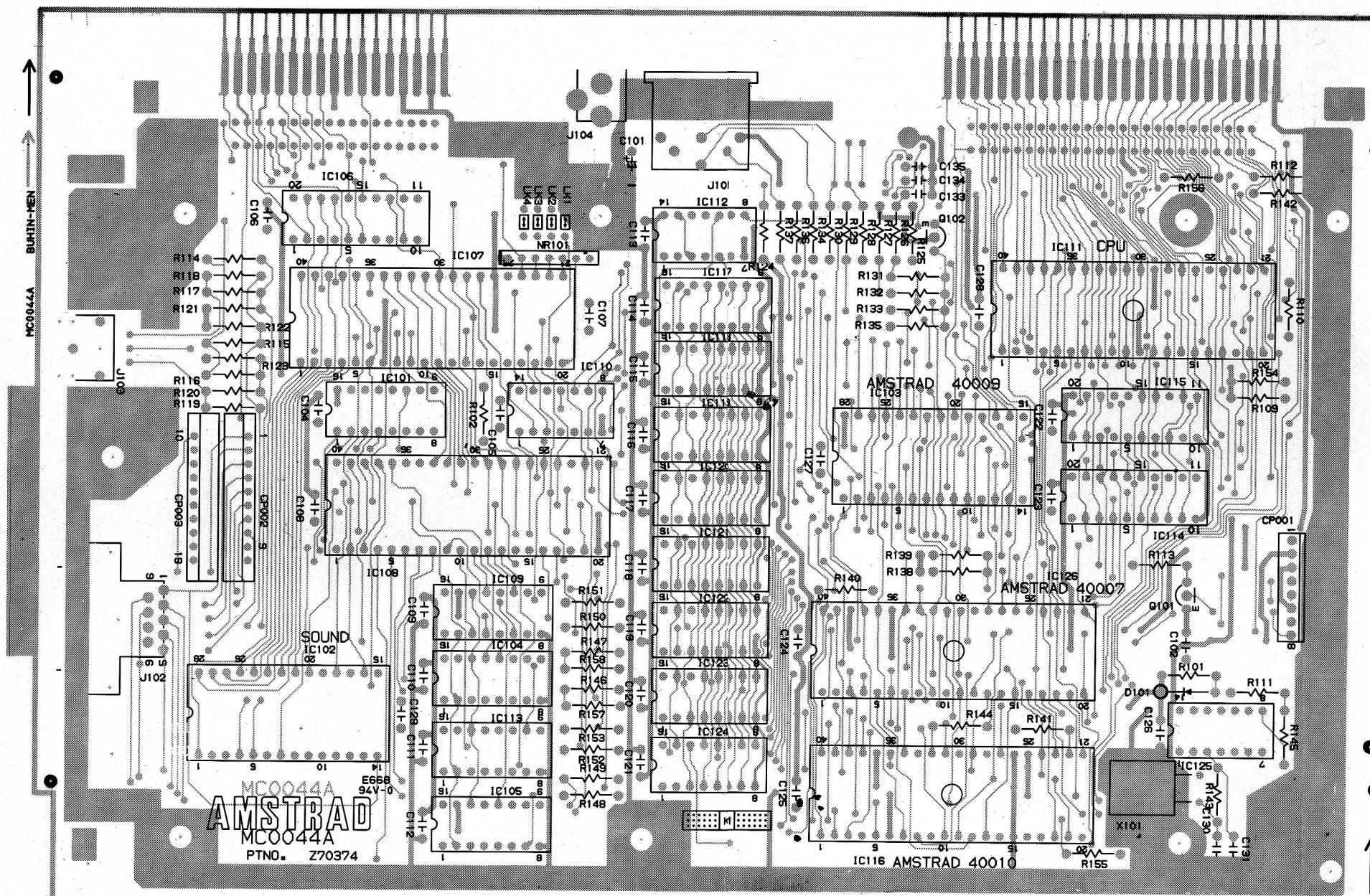


| Ref. | Description | Part No. |
|------|-----------------------------|----------|
| 4 | Sensing Plate | 809162 |
| 5 | Pinch Roller Arm Stopper | 809161 |
| 6 | Pinch Roller | 809175 |
| 7 | Pinch Roller Spring | 809158 |
| 8 | Polyslider Washer | 170204 |
| 11 | Record Safety Lever | 170204 |
| 14 | Main Belt | 170204 |
| 15 | Flywheel | 809156 |
| 22 | Switch, Leaf LSA-1120RC | 809157 |
| 26 | Switch, Leaf LSA-115D | 170212 |
| | Actuator Spring | 170201 |
| | Head Record Play-Back | 170202 |
| | Head, Erase | 170202 |
| | Motor Assembly | 170211/A |
| | Cassette Mechanism Complete | |

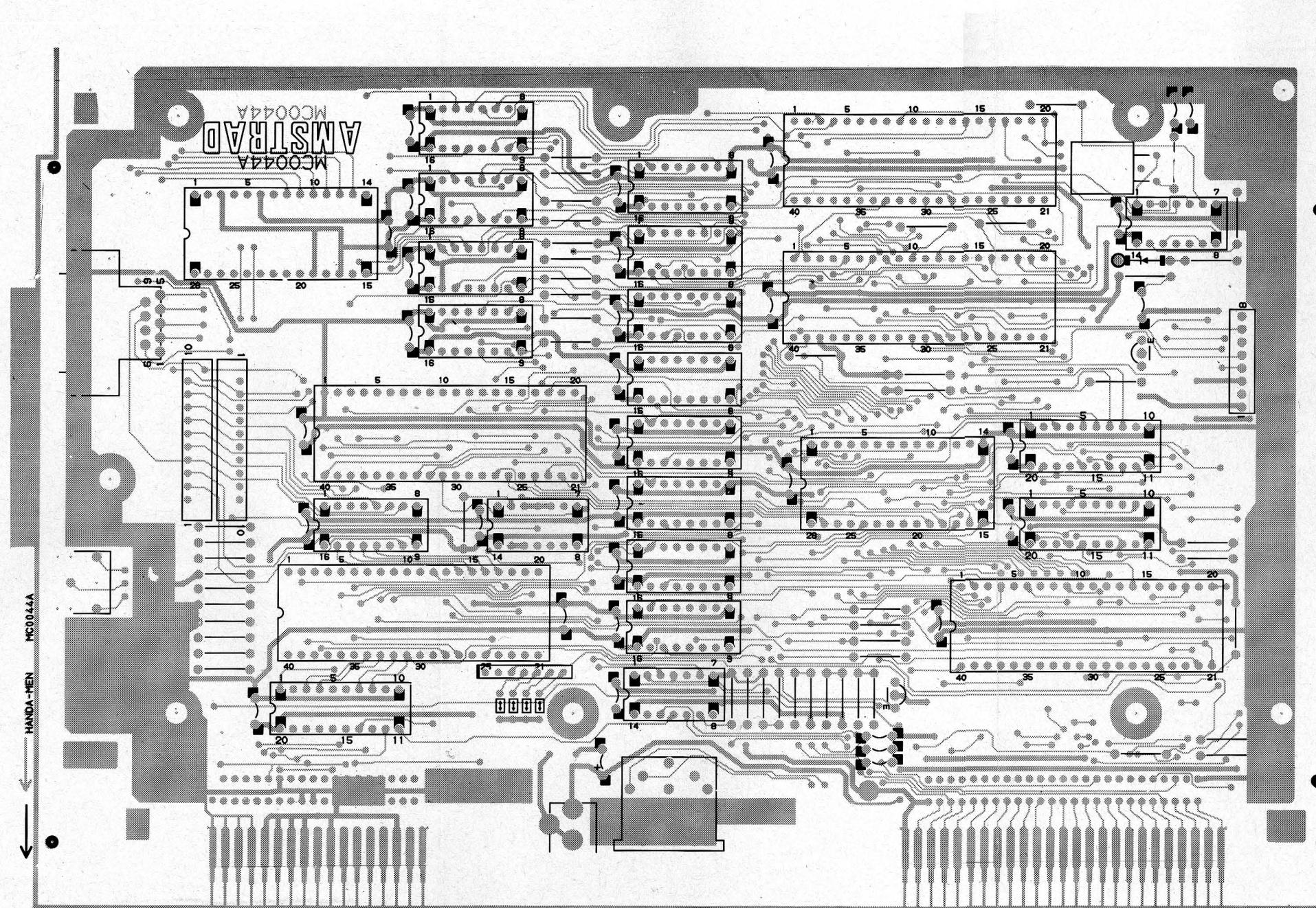
* For parts not listed in this
please refer to original manual.



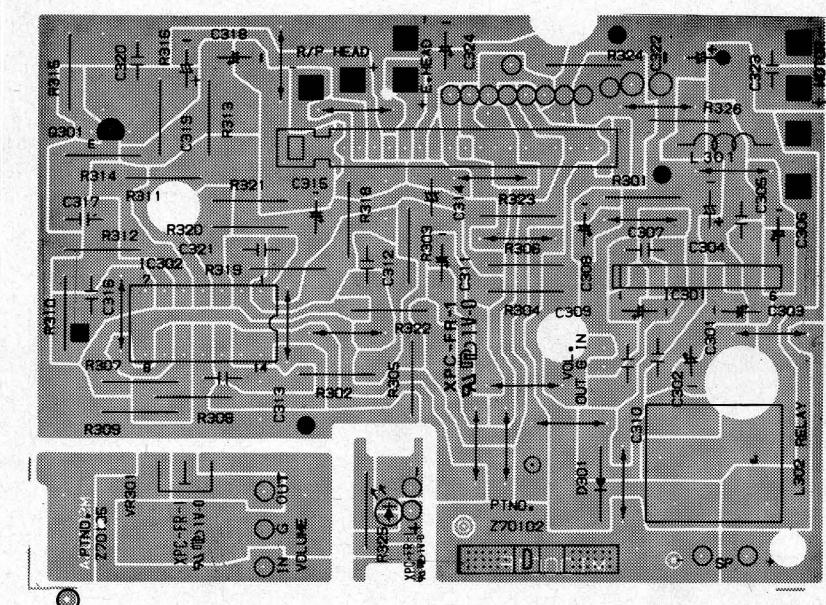
CPC464 CPU P.C.B. (Top View)



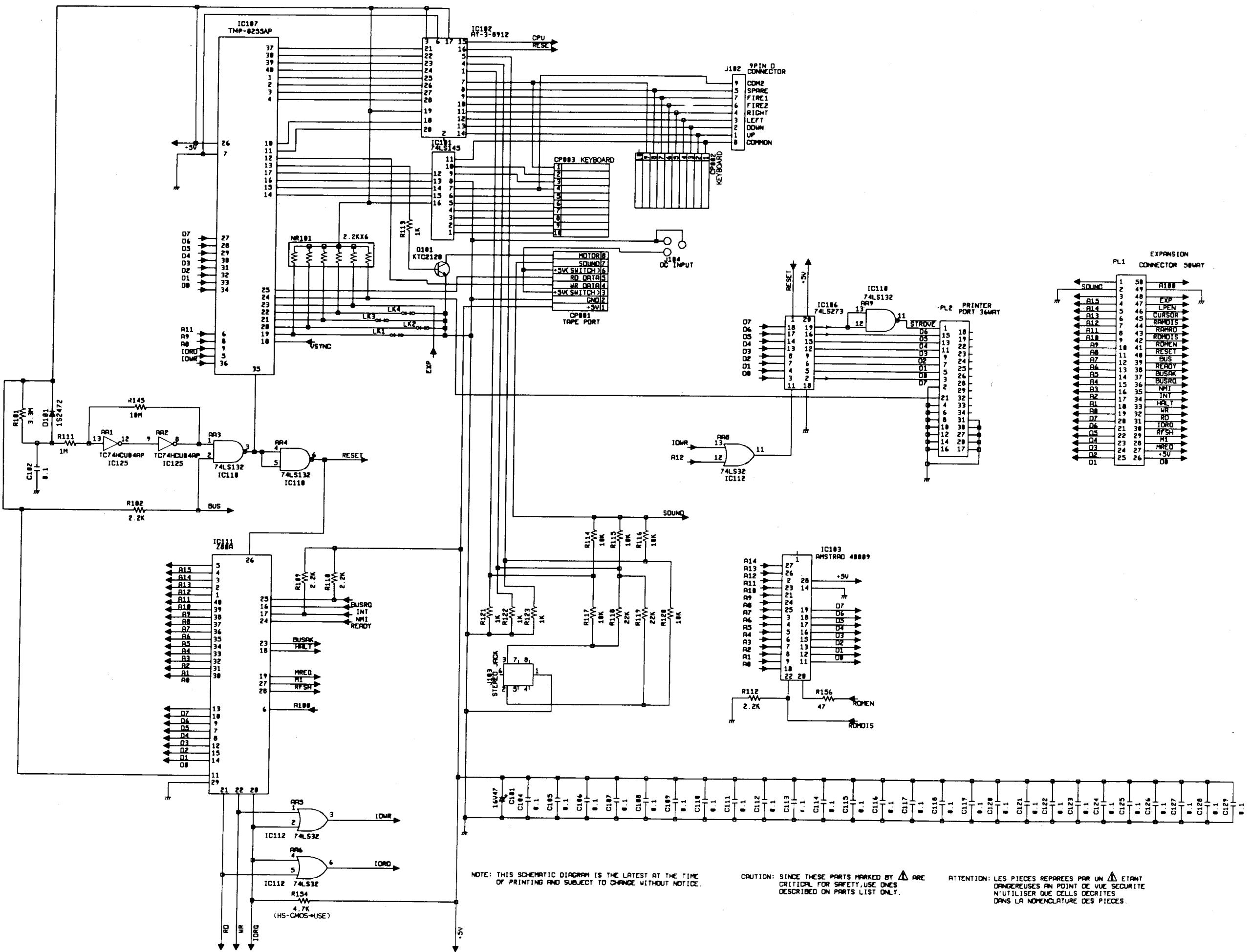
CPC464 CPU P.C.B. (Bottom View)



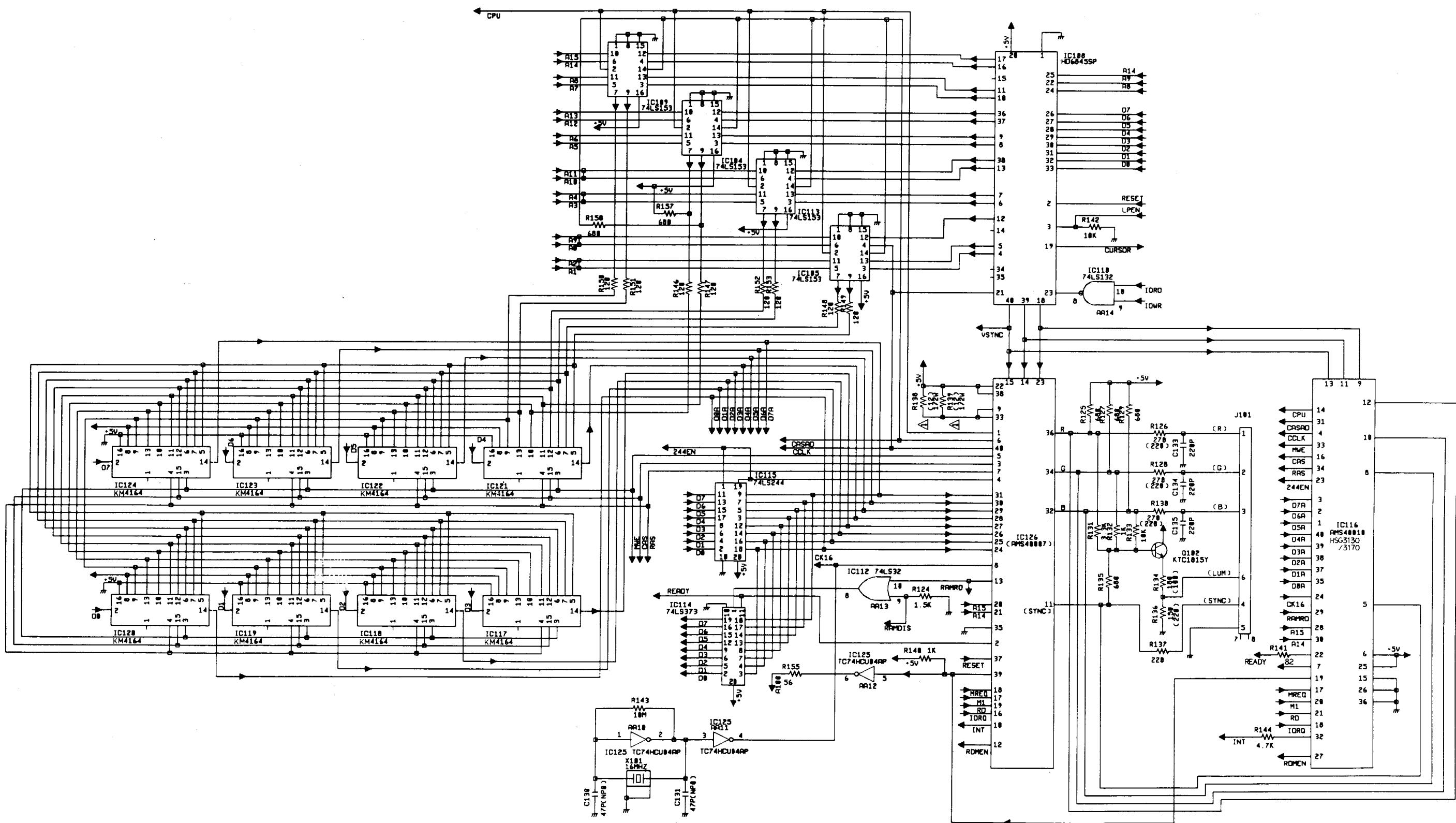
CPC464 TAPE P.C.B.



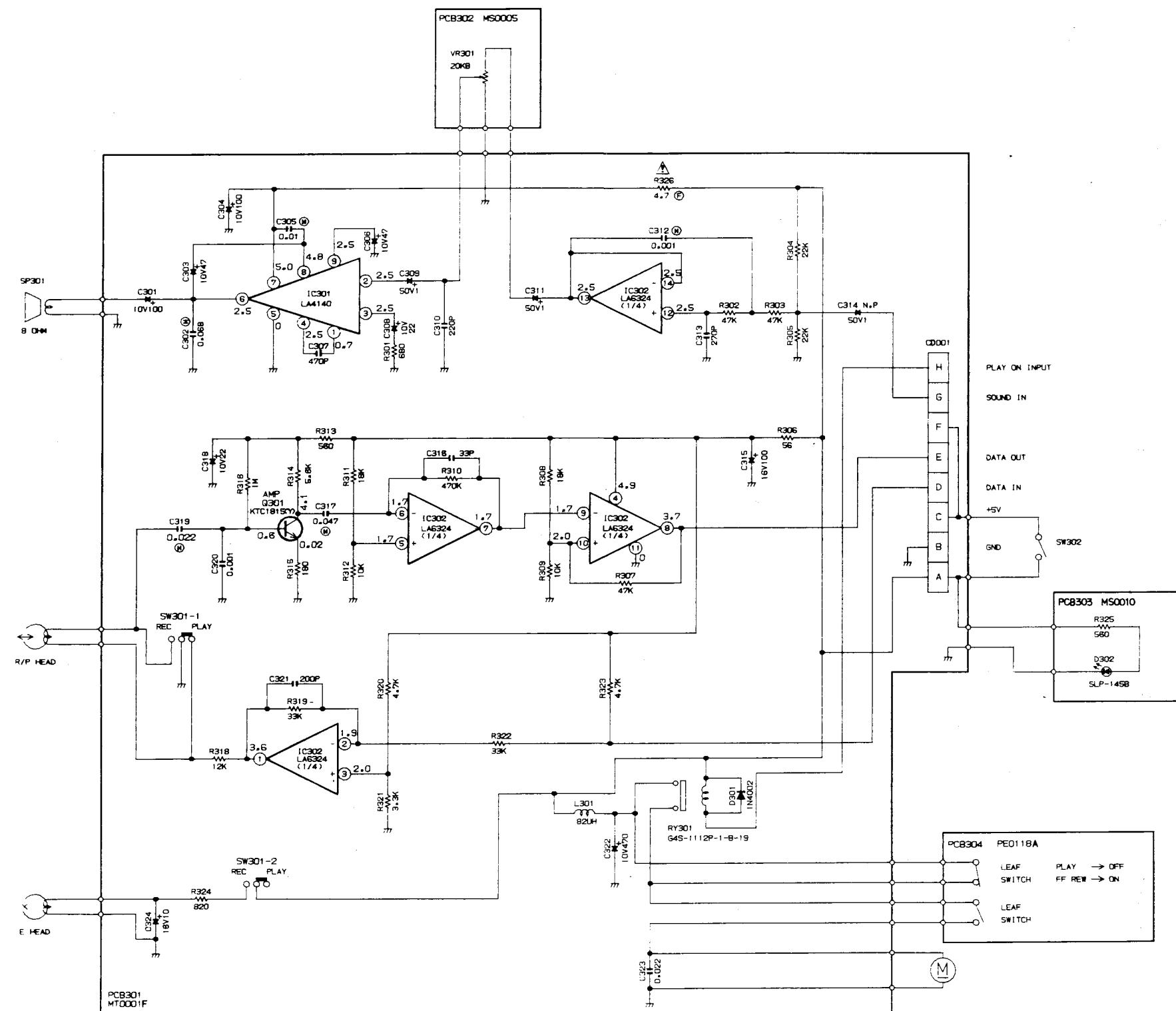
CPC464 CPU/PIO SECTION CHASSIS SCHEMATIC DIAGRAM



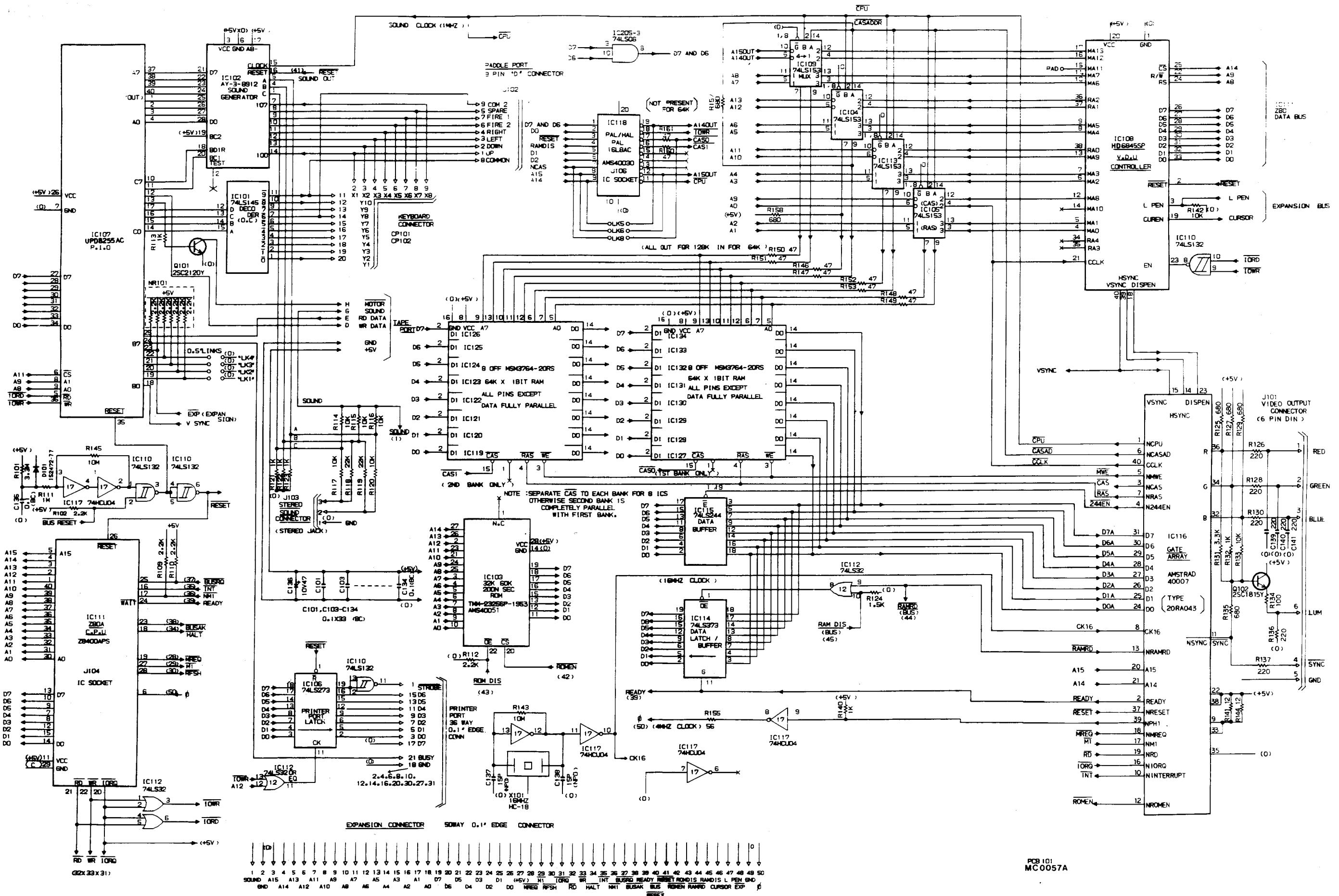
CPC464 RAM/CRTC/ULA SECTION CHASSIS SCHEMATIC DIAGRAM



CPC464 TAPE AMP SECTION CHASSIS SCHEMATIC DIAGRAM

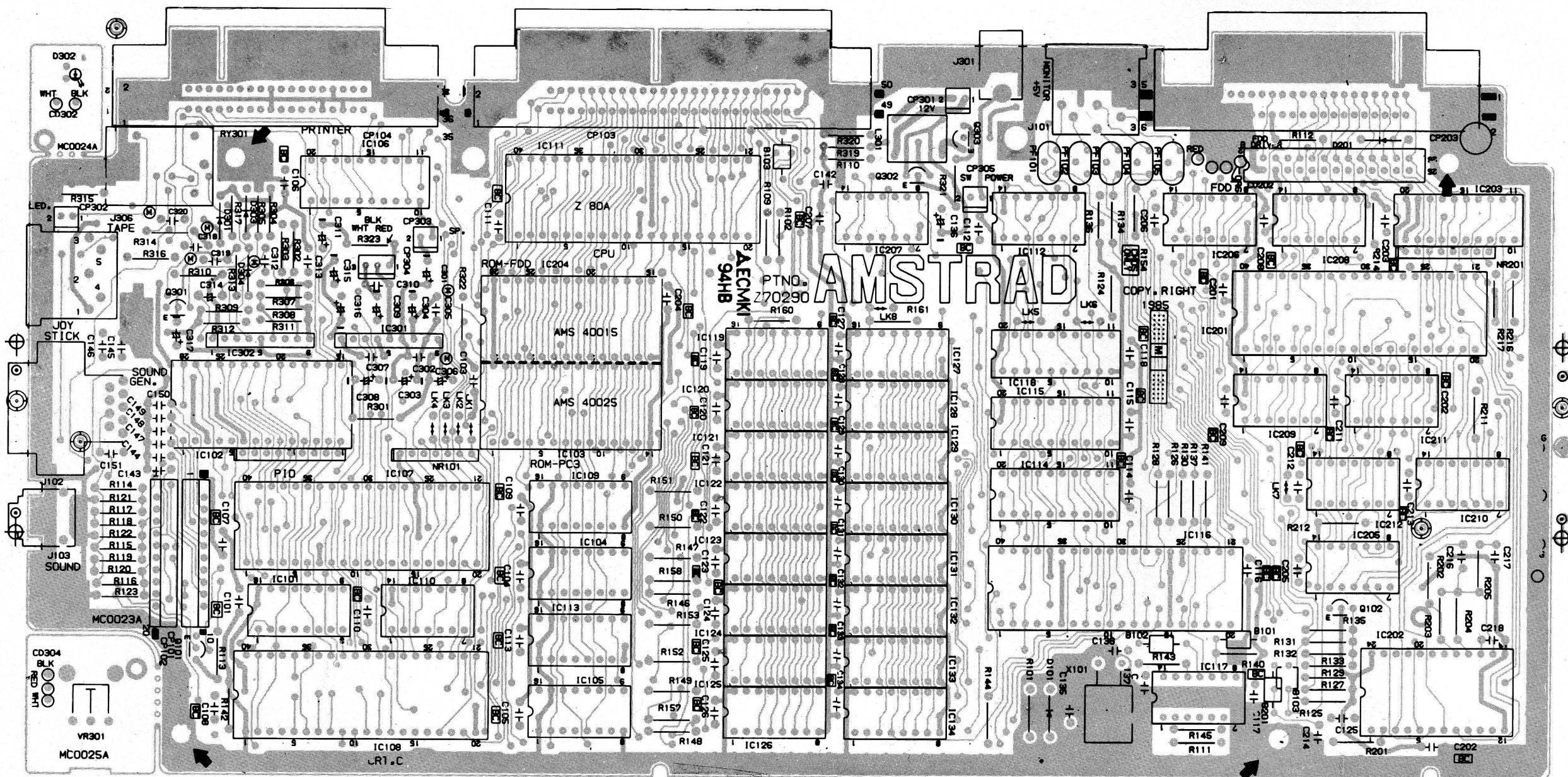


CPC6128 CHASSIS SCHEMATIC DIAGRAM

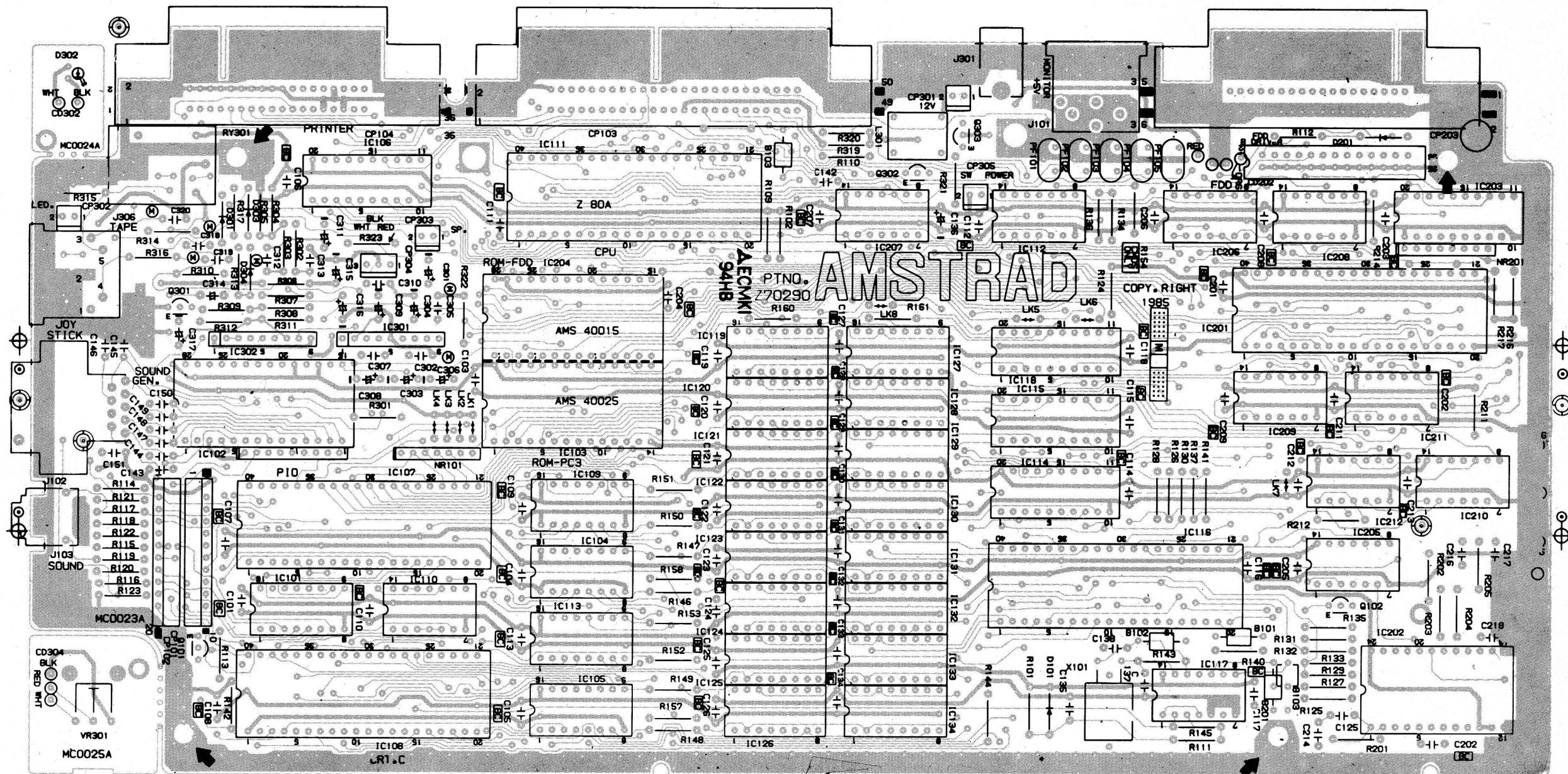


PCB 101
MC0057A

CPC6128 MAIN P.C.B. (Top View)

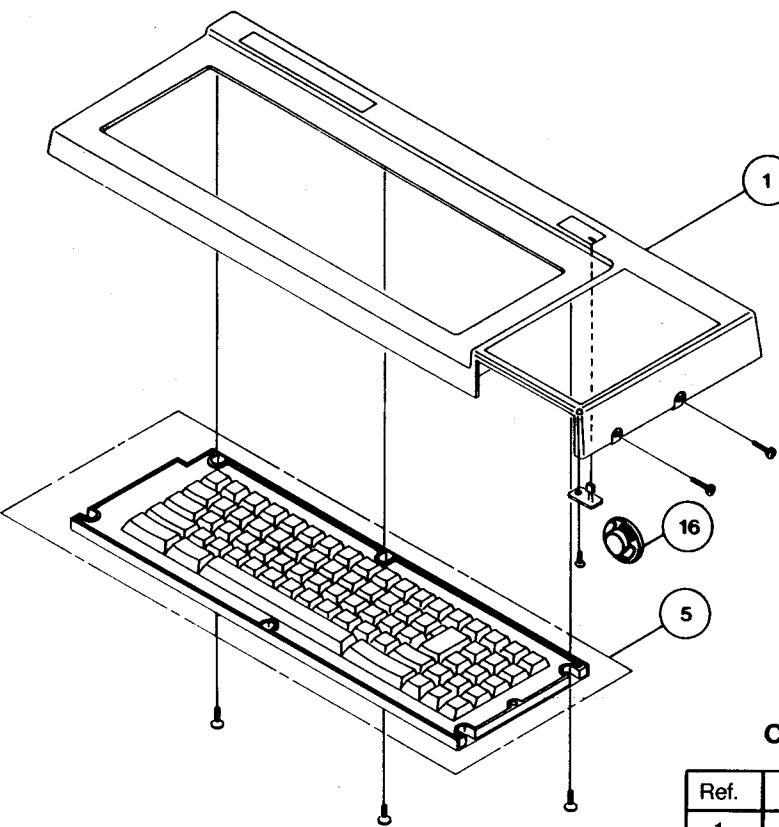


CPC6128 MAIN P.C.B. (Bottom View)



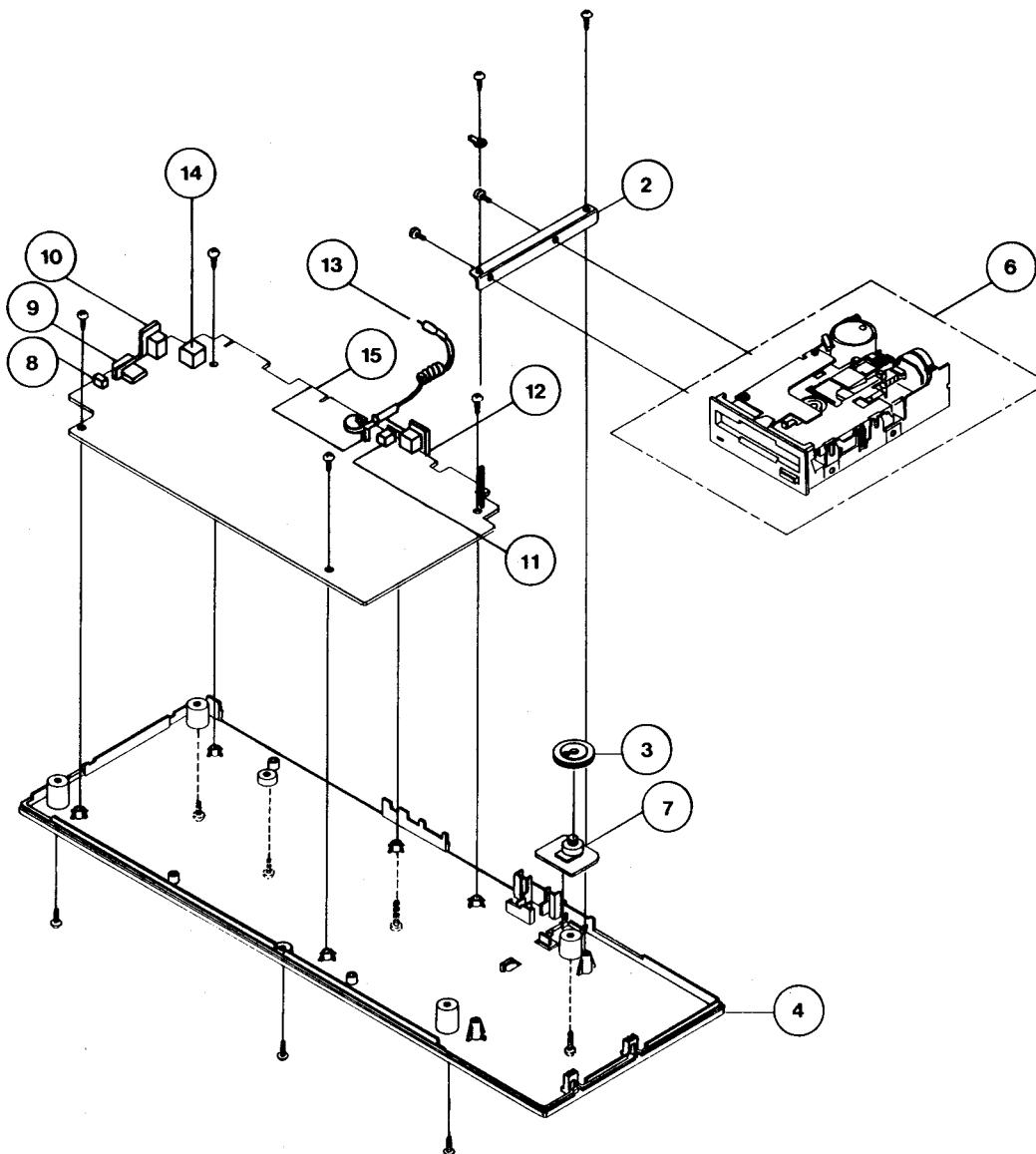
| SYMBLE LIST | |
|---------------------|---|
| RESISTOR | — |
| SEMI-FIXED RESISTOR | — |
| CAPACITOR | — |
| JUMPER | ↔ |

CPC6128 SECTION



CPC6128/III CABINET PARTS LIST

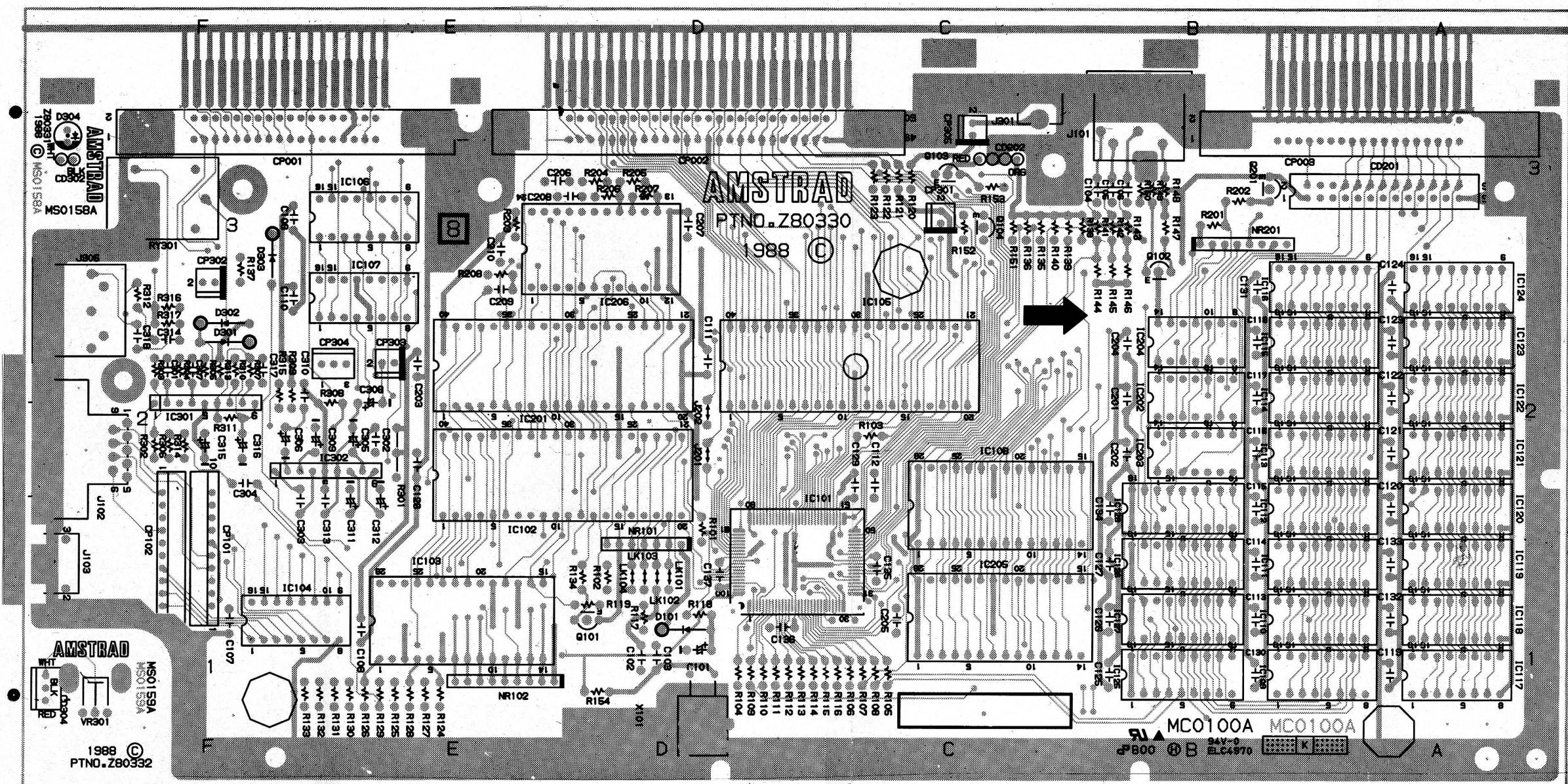
| Ref. | Description | Part No. |
|------|--------------------------|----------|
| 1 | Cabinet, Top Assembly | 170901 |
| 2 | Frame, FDD | 171007 |
| 3 | Knob, Volume | 170902 |
| 4 | Cabinet, Bottom Assembly | 170903 |



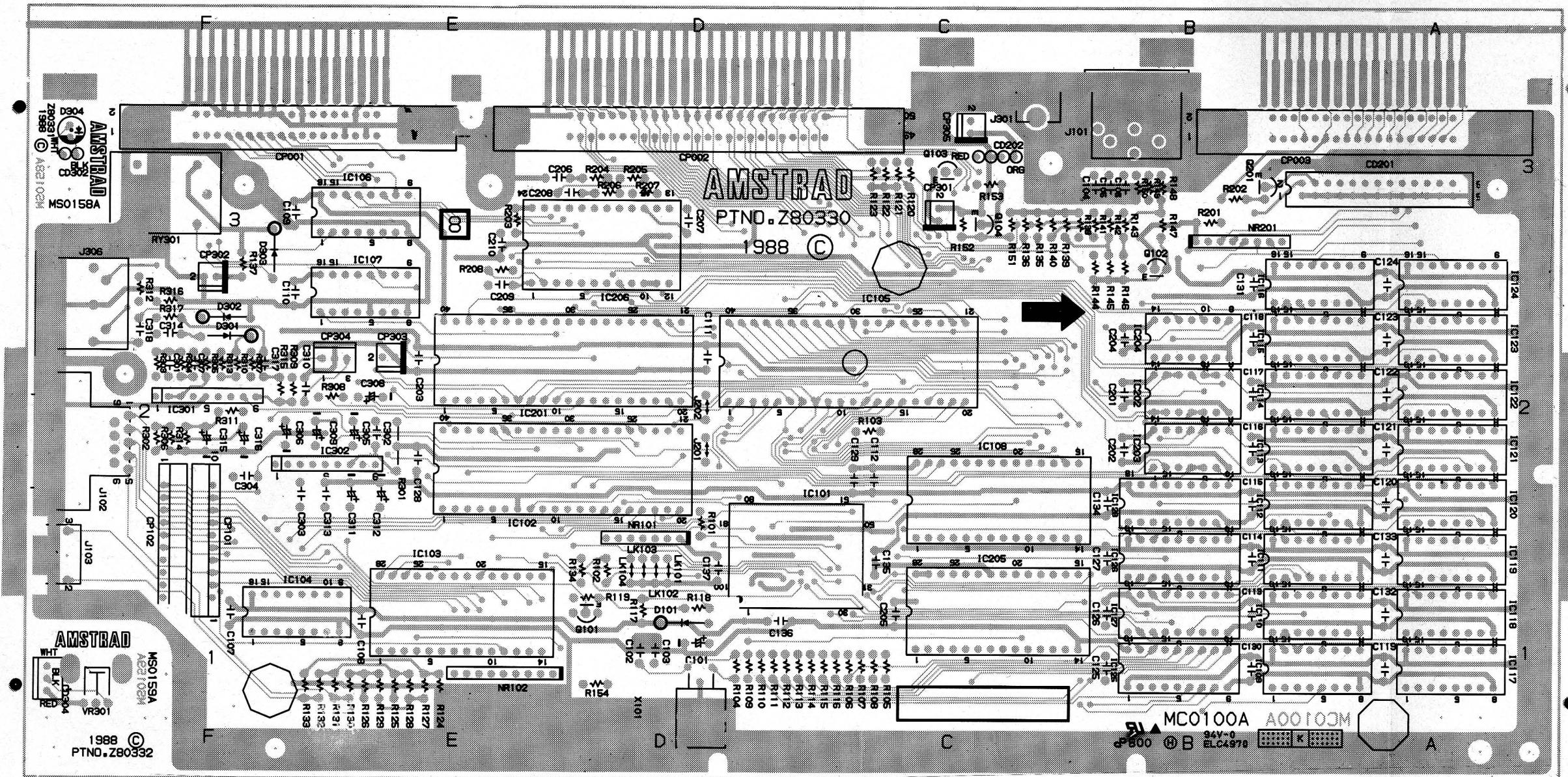
CPC6128/III ELECTRICAL PARTS LIST

| Ref. No. | Description | Part No. |
|---------------------------|----------------------------|----------|
| IC's | | |
| IC101 | IC Amstrad 40226 | 40226 |
| IC102 | IC TMP-8255AP | 170105 |
| IC103 | IC AY-3-8912 | 40001 |
| IC104 | IC DN74LS145 | 170101 |
| IC105 | IC Z8400APS | 40080 |
| IC106 | IC DN74LS174 | 171387 |
| IC107 | IC DN74LS175 | 176085 |
| IC108 | IC Amstrad 40025 | 40025 |
| IC109-124 | IC KM4164B | 170110 |
| IC201 | IC Z765APS | 40018 |
| IC202, 203 | IC DN74LS38 | 40019 |
| IC204 | IC TC74HC14AP | 171033 |
| IC205 | IC Amstrad 40015 | 40015 |
| IC206 | IC SED9420CAC | 171034 |
| IC301 | IC LA6358S | 170814 |
| IC302 | IC LA4140 | 170111 |
| Transistors | | |
| Q101, 102, 104, 201 | TR KTC1815 | 170447 |
| Q103 | TR KTA950Y | 170448 |
| Diodes | | |
| D101, 301, 302 | D 1S2472T | 170115 |
| D303 | D 10E1 FA8 | 170865 |
| D304 | LED SLP-155B | 170866 |
| Crystals | | |
| X101 | Crystal HC-49/U 16.00MHz | 170908 |
| Ref No. | Description | Part No. |
| Sockets | | |
| J101 | Jack DIN | 170025 |
| J102 | Socket D Sub 9 | 170023 |
| J103 | Jack, RCA 3.5 | 170022 |
| J301 | Jack, DC | 170024 |
| J306 | Jack, DIN | 170850 |
| Variable Resistors | | |
| VR301 | VR, Rotary 20kΩ | 170807 |
| Switches | | |
| SW101 | Switch, Keyboard | 170858 |
| SW301 | Switch, Slide | 170906 |
| Fuses | | |
| R301 | Fuse 4.7Ω | 170866 |
| Miscellaneous | | |
| FDD201 | Floppy Disc Drive EME-156V | 190005 |
| RY301 | Relay | 170123 |
| SP301 | Speaker | 170124 |
| NR101 | Resistor Network 2.2kΩ x 6 | 170131 |
| NR102 | Resistor Network 2.2kΩ x 8 | 170132 |
| NR201 | Resistor Network 680Ω x 6 | 170133 |

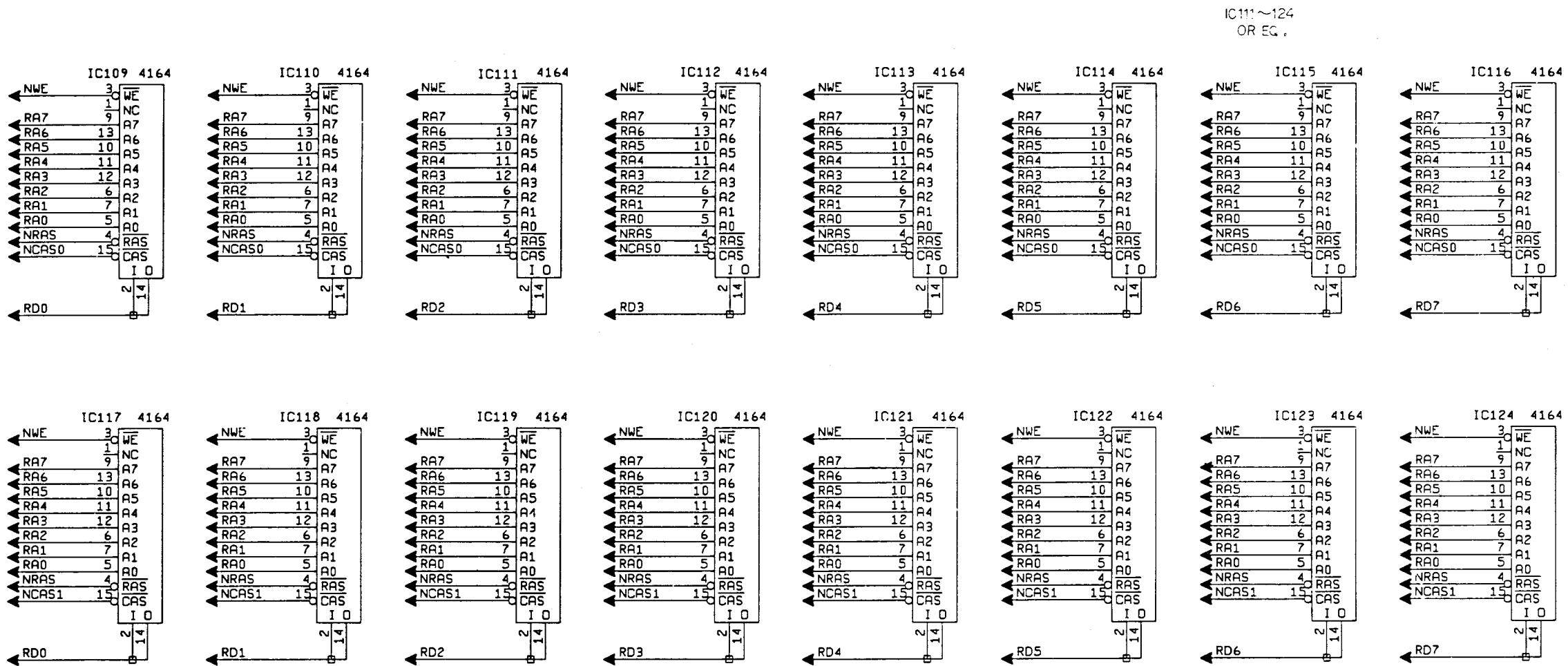
CPC6128 MAIN/LED/VOLUME P.C.B. (Top View)



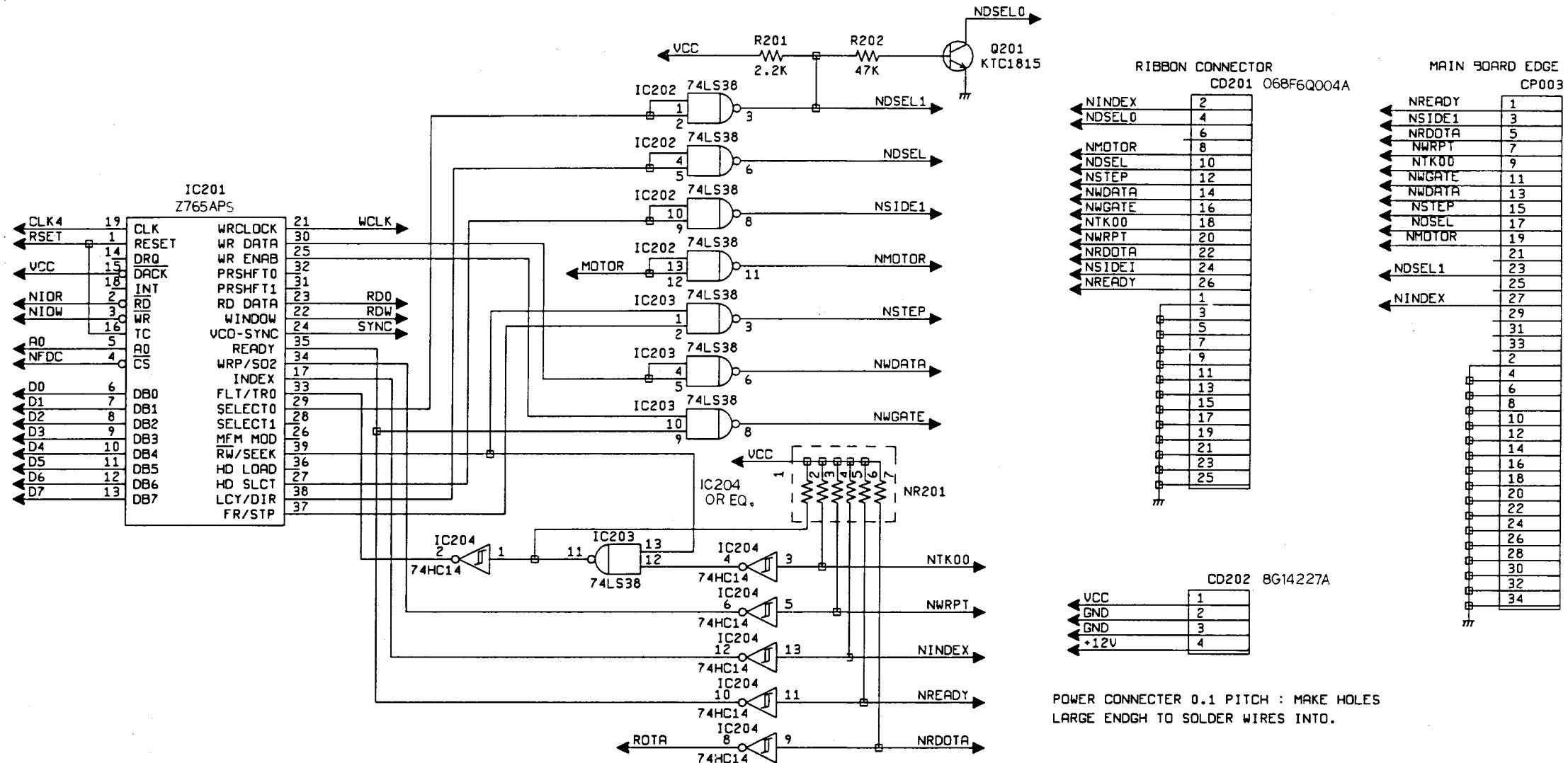
CPC6128 MAIN/LED/VOLUME P.C.B. (Bottom View)



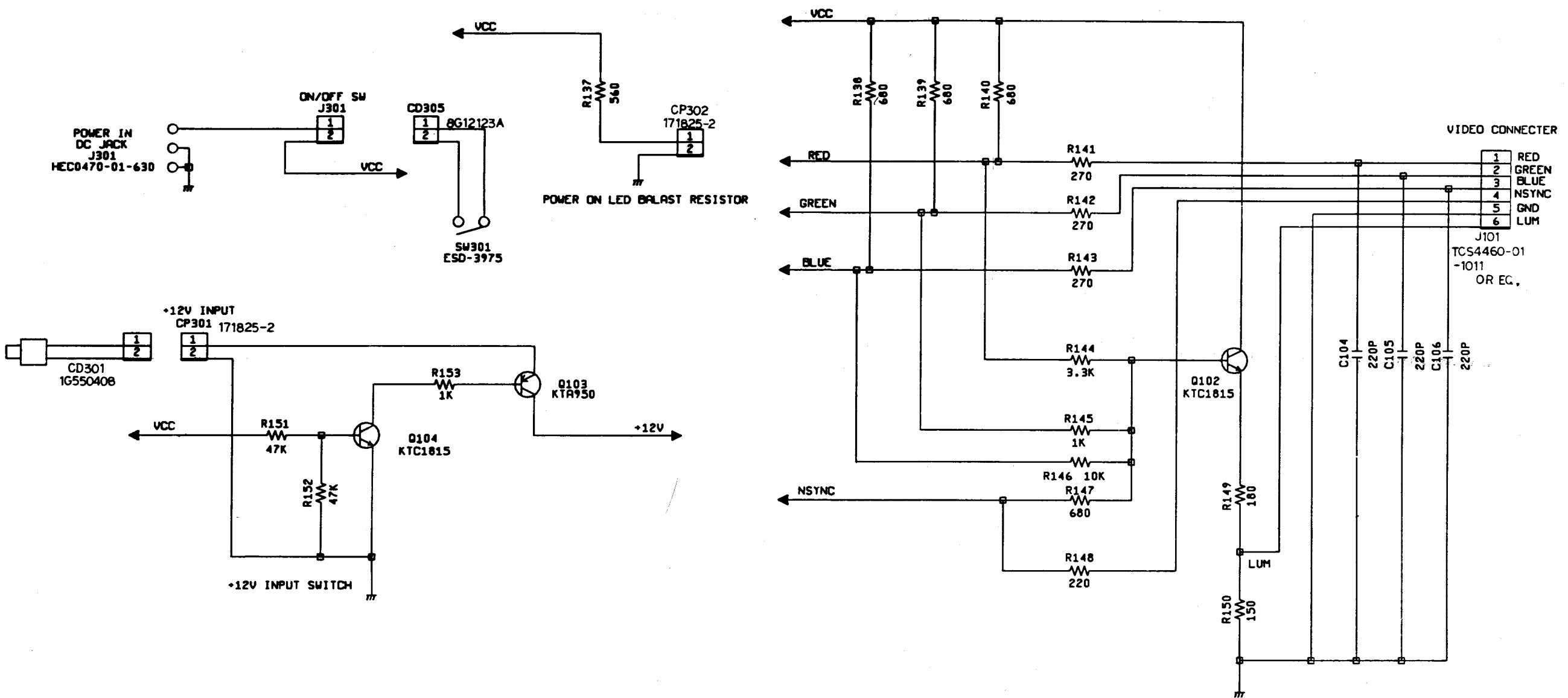
CPC6128 RAM SECTION CHASSIS SCHEMATIC DIAGRAM



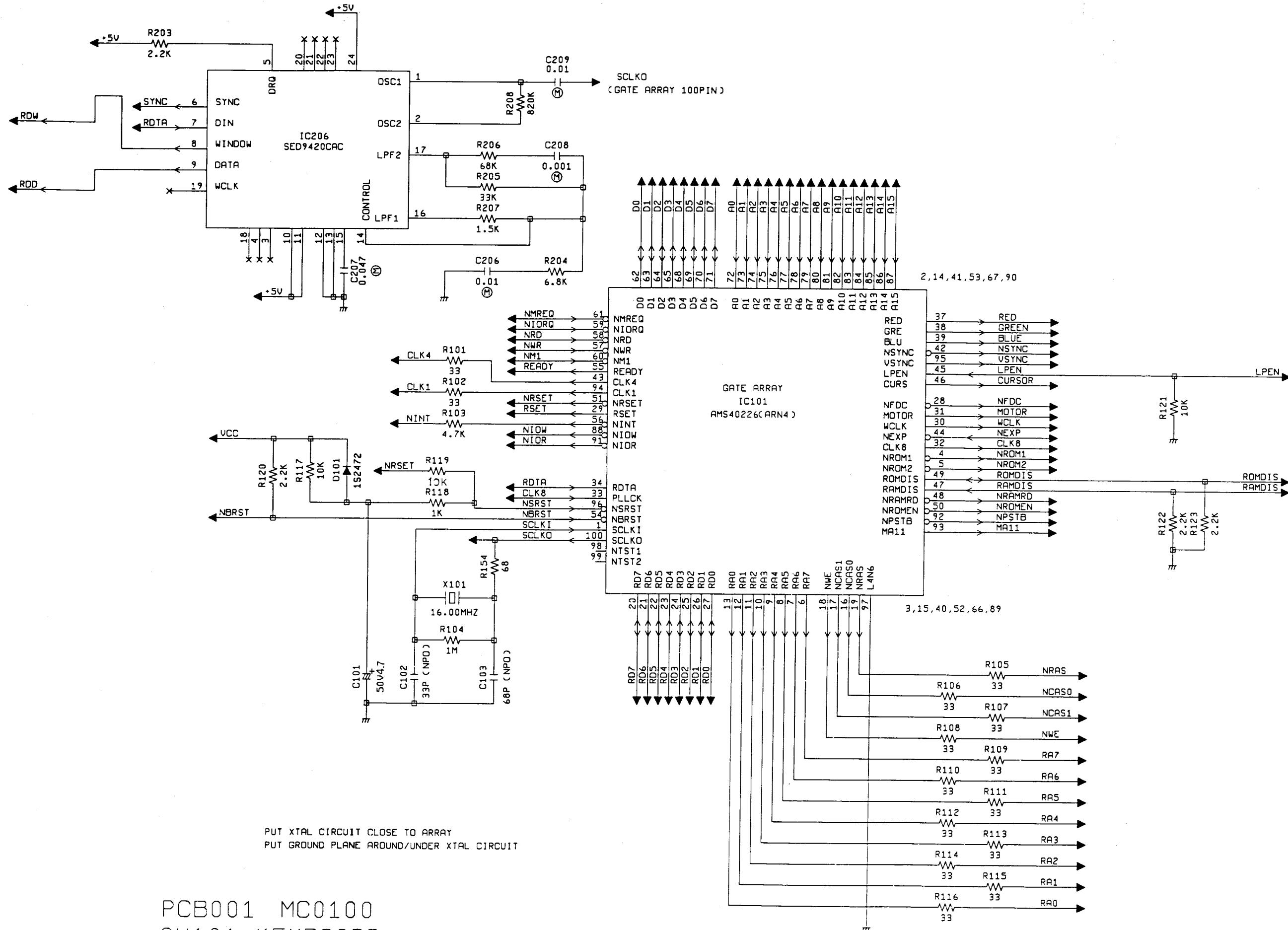
CPC6128 CPU SECTION CHASSIS SCHEMATIC DIAGRAM



CPC6128 CHASSIS SCHEMATIC DIAGRAM



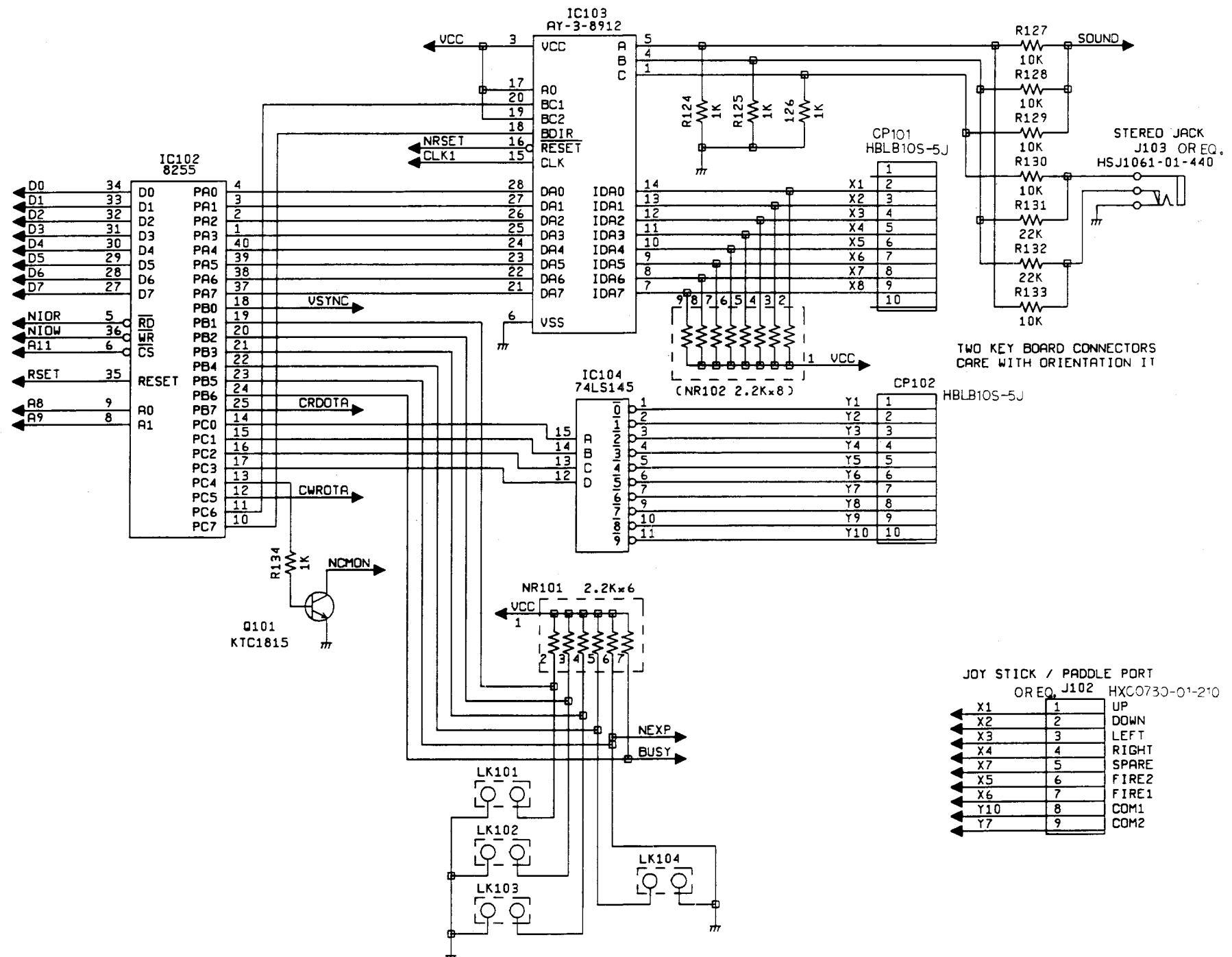
CPC6128 ULA/DS SECTION CHASSIS SCHEMATIC DIAGRAM



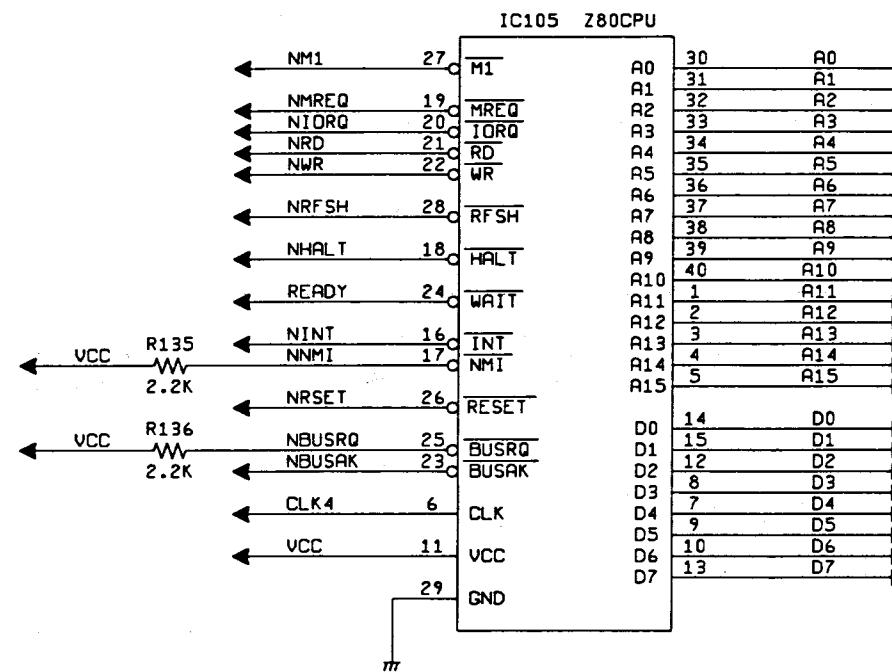
PUT XTAL CIRCUIT CLOSE TO ARRAY
PUT GROUND PLANE AROUND/UNDER XTAL CIRCUIT

PCB001 MC0100
SW101 KEYBOARD

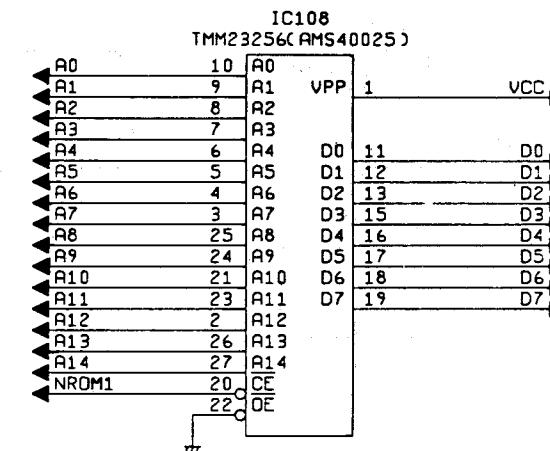
CPC6128 PIO/SOUND SECTION CHASSIS SCHEMATIC DIAGRAM



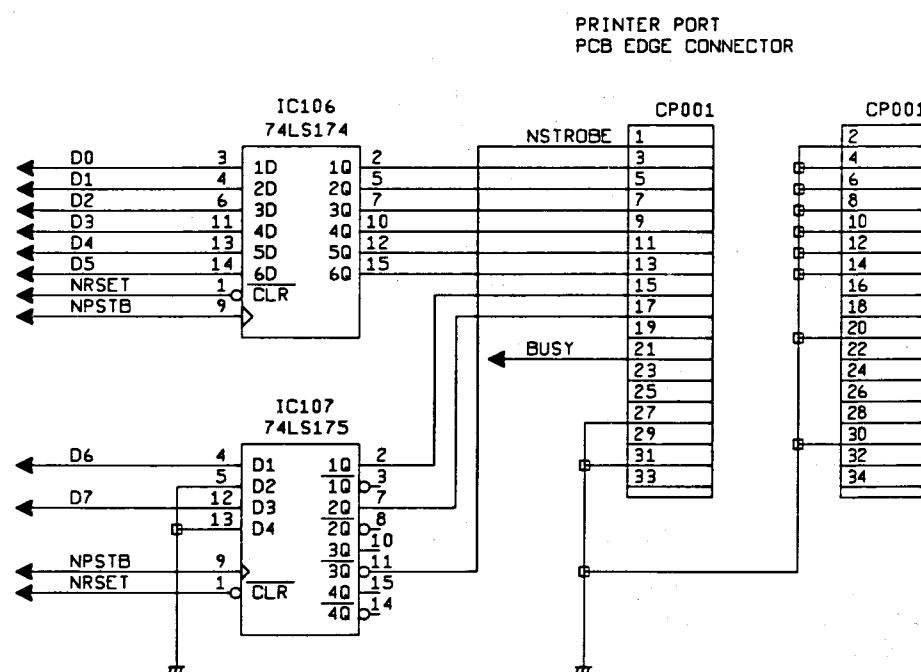
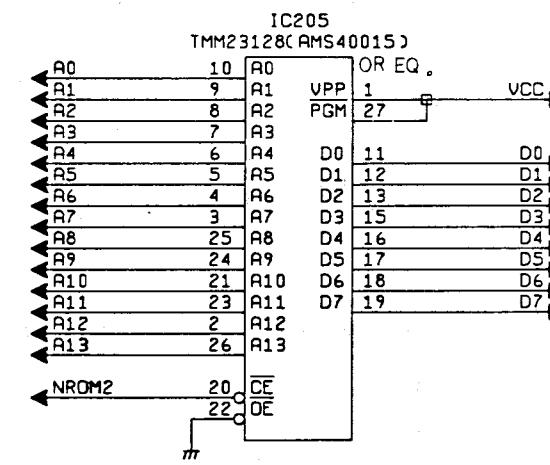
CPC6128 CPU/ROM SECTION CHASSIS SCHEMATIC DIAGRAM



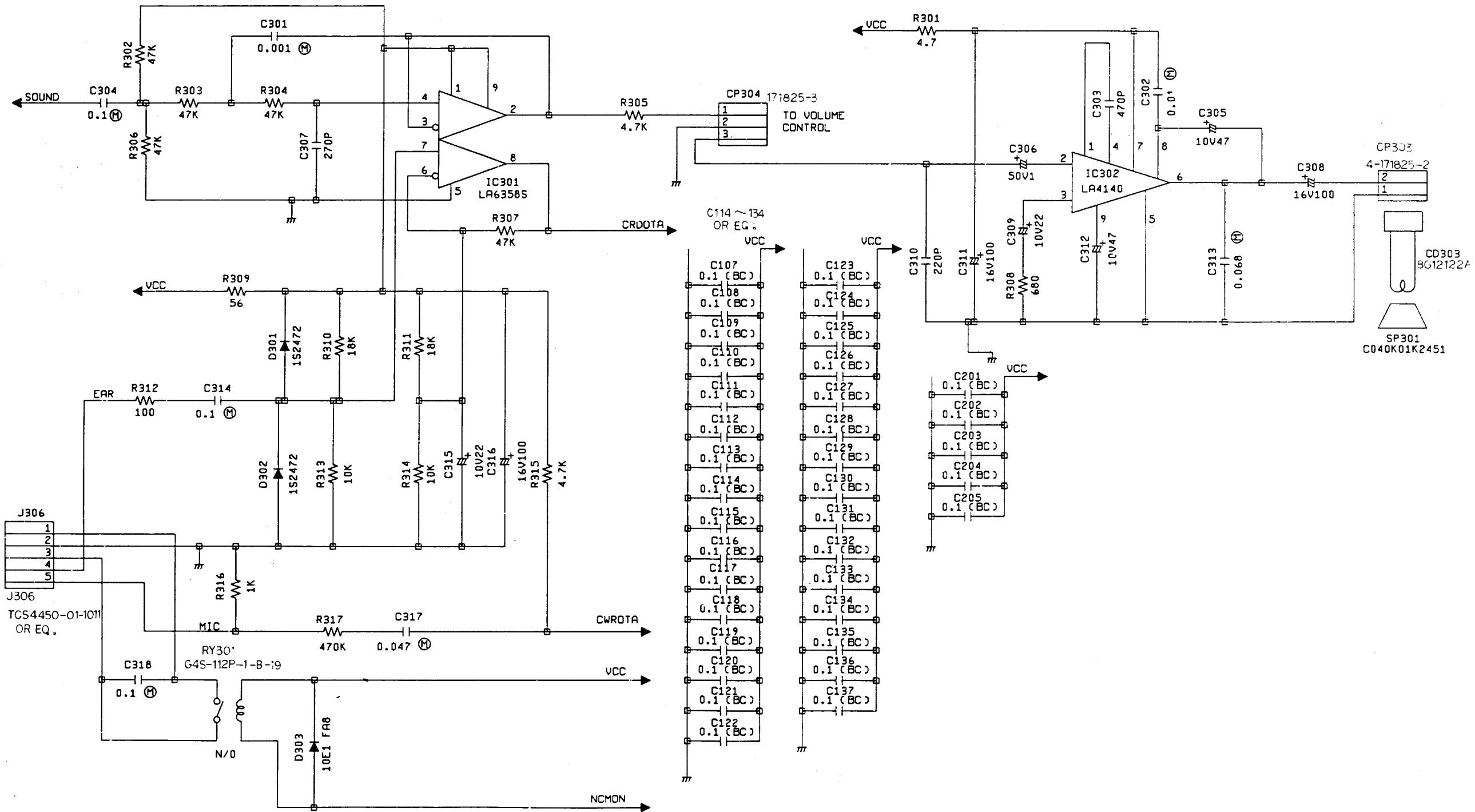
SYSTEM ROM APPEARS AT TWO ADDRESSES
0000-3FFF AND D000-FFFF

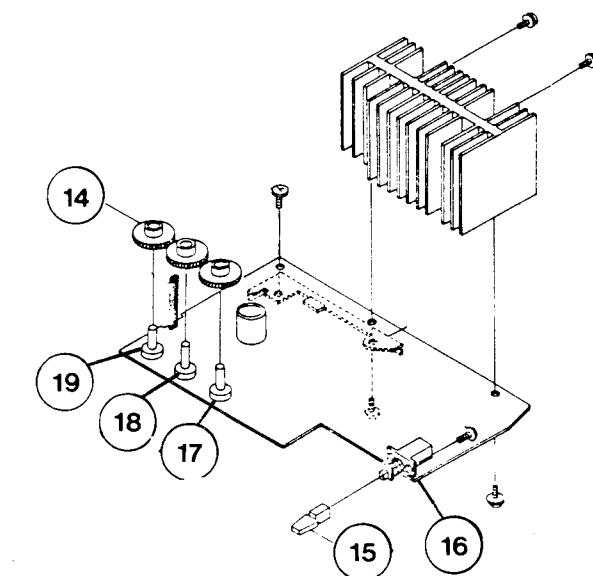
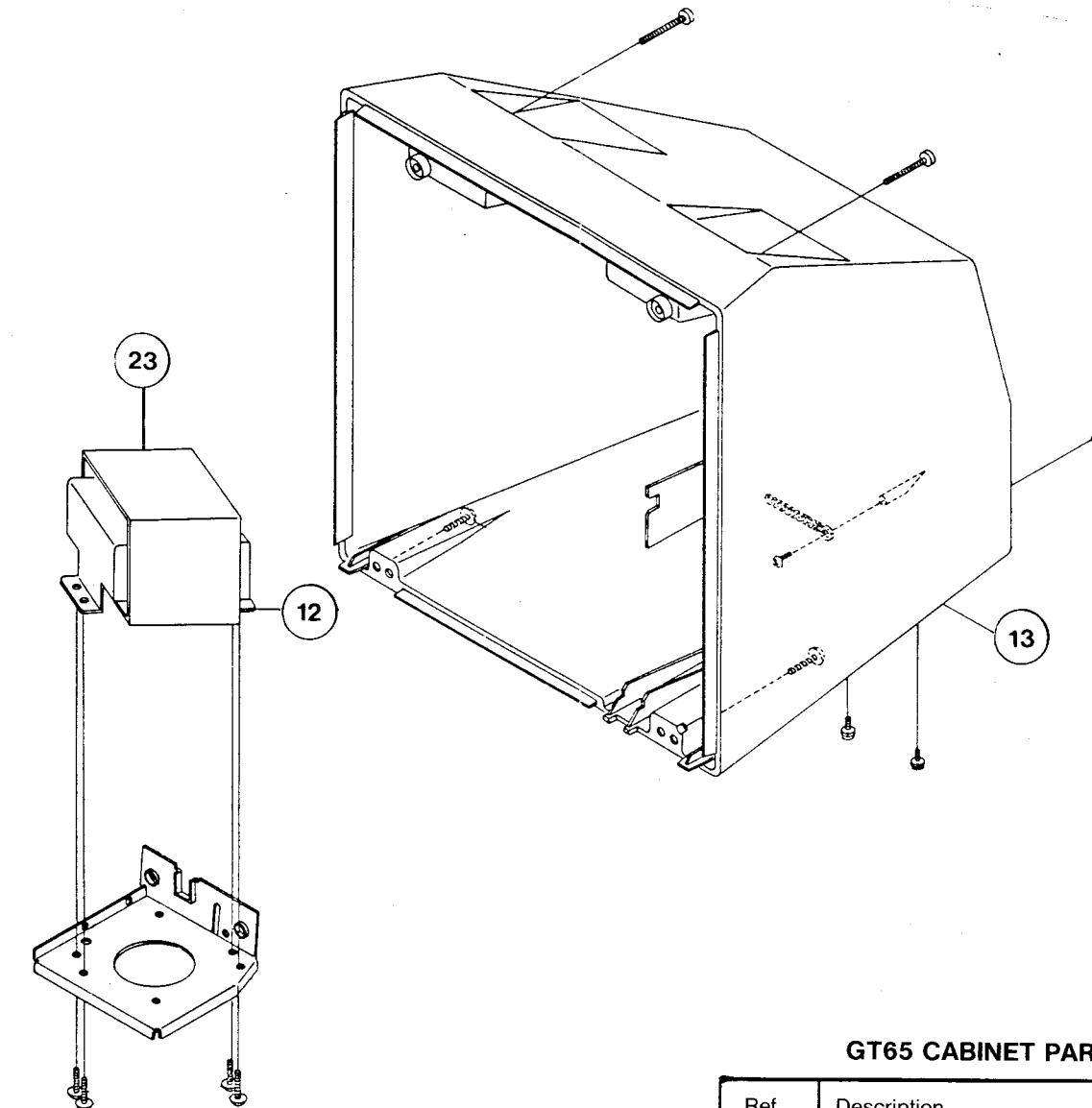
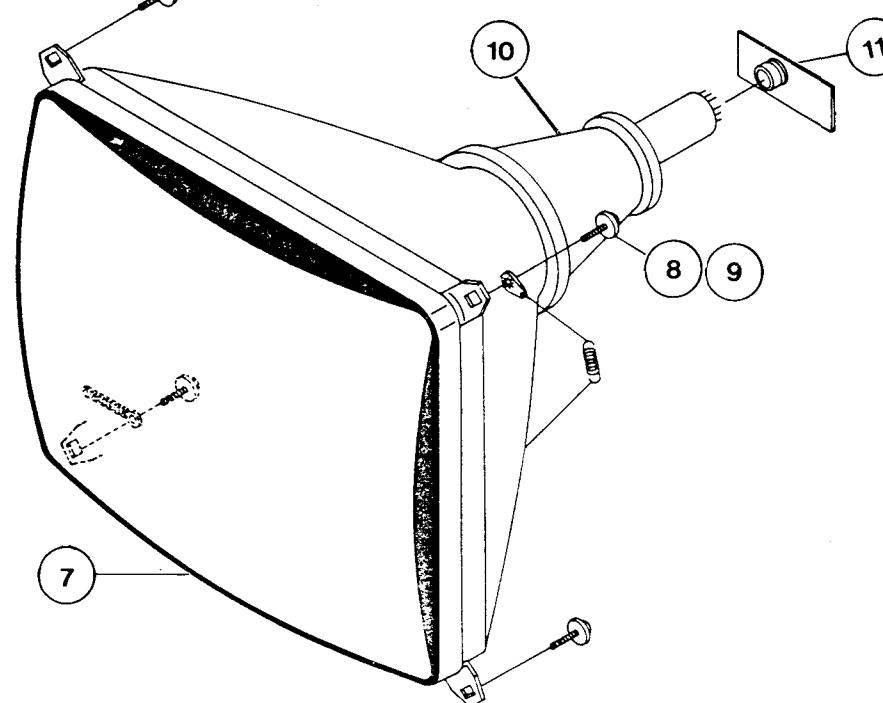
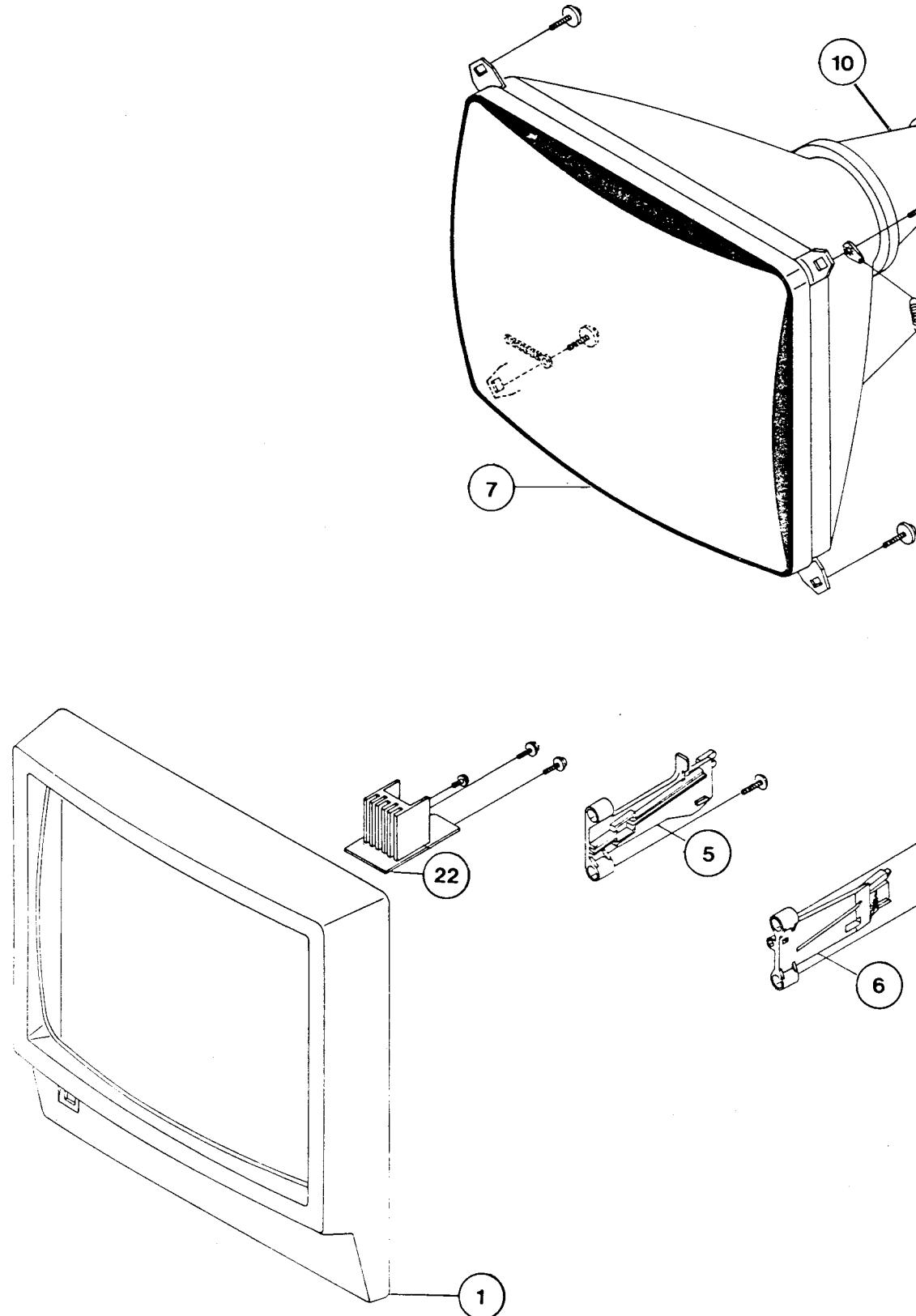


FLOPY DISC CONTROLER ROM



CPC6128 TAPE/SOUND SECTION CHASSIS SCHEMATIC DIAGRAM





GT65 CABINET PARTS LIST

| Ref. | Description | Part No. |
|---------------|--------------------------------|-----------|
| 1 | Front Cabinet | 170150 |
| 2 | Cable Clamp | 170502 |
| 5 | Bracket PCB (L) | 170153 |
| 6 | Bracket PCB (R) | 170154 |
| 7 | CRT Green | 170507 |
| 8 | Metal Washer CRT | 170508 |
| 9 | Fixing Screw CRT | 170509 |
| 10 | Deflection Yoke | 170510 |
| 11 | CRT Socket | 170511 |
| 12 | Power Transformer | S/170832 |
| 13 | Rear Cabinet | 170155 |
| 14 | Control Knob | 170515 |
| 15 | Button Power | 170515 |
| 16 | On/Off Switch | 170516 |
| 17 | V. Hold Pot. | 170833 |
| 18 | Contrast Pot. | 170518 |
| 19 | Brightness Pot. | 170519 |
| 20 | D.C. Cord | 170516 |
| 21 | DIN Cord | 170157 |
| 22 | D.C. Jack | 170834 |
| 23 | u Metal Shield | 170512/SH |
| Miscellaneous | | |
| FB701 | Transformer Flyback 0420120041 | 170158 |
| TH702 | Thermistor SDT100 | 170159 |

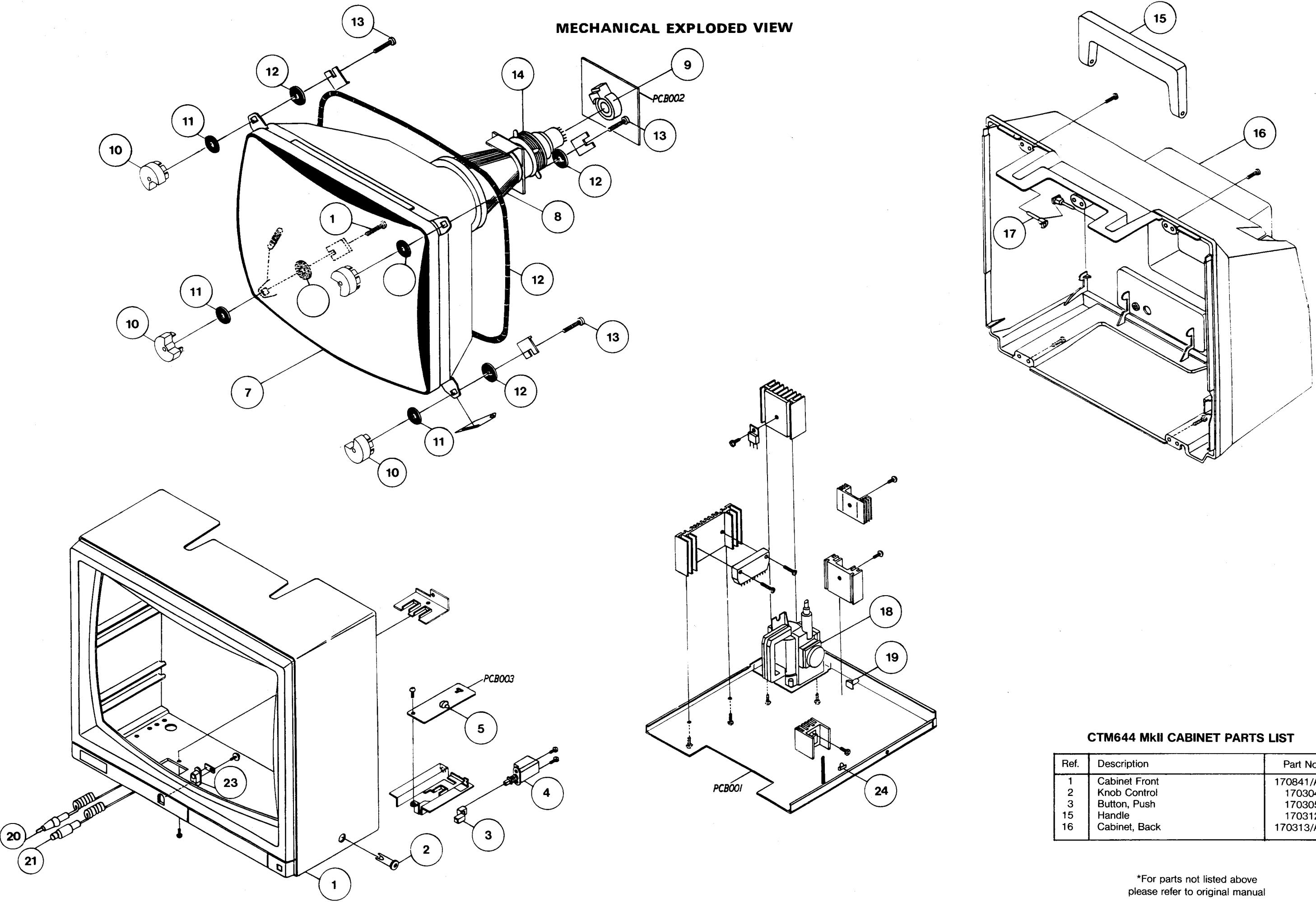
| Ref. No. | Description | Part No. |
|---------------------------|--------------------------------|----------|
| IC's | | |
| IC401 | IC LA7800 | 1400106 |
| IC402 | IC LA7830 | 170444 |
| IC501 | IC STK-7308 | 170445 |
| IC502 | IC L78MG | 170446 |
| IC503 | IC UPC78M12 | 1422278 |
| Transistors | | |
| Q401, 402, 506 | TR KTC1815-T | 170447 |
| Q403 | TR 2SA950Y | 170448 |
| Q404 | TR 2SC2271 | 170449 |
| Q405 | TR 2SD1397 | 170450 |
| Q501 | TR 2SD1207 | 170451 |
| Q502 | TR 2SD880(Y) | 170452 |
| Q503, 505 | TR KTA1015Y | 170453 |
| Q504 | TR 2SC2120Y | 170113 |
| Q801-803 | TR 2SC3417 | 170454 |
| Diodes | | |
| D401, 410, 411 | D IS2472T-77 | 170455 |
| D402 | DZ GZA11 Y BT | 1400124 |
| D405, 407, 408 | D DFD05G | 170456 |
| D406 | D BB4-FC | 1422116 |
| D501-504 | D 20E10 | 170848 |
| D505, 507 | DZ RD3.6FB | 170458 |
| D506, 508 | D DFC10E-KB4 | 1422115 |
| D509 | D RGP-30J-5001L | 170459 |
| D510 | D SR-2M Avalanche | 1400122 |
| D511, 512 | D RGP30G-5001L | 170459 |
| D901-903 | DZ GZA6.2 Y BT | 1422114 |
| Coils | | |
| L401 | Coil Linearity 21000002 | 170134 |
| L501 | Filter Line Across FK0b160MH14 | 1400130 |
| L502 | Coil Degauss 8D140013 | 170842 |
| L801 | Coil Choke 100 μ H | 1400148 |
| T401 | Trans Hori. Drive 305Y001 | 170463 |
| T501 | Trans Switching 8142006 | 170845 |
| Switches | | |
| SW401 | Switch, Slide SS-009-7H | 900101 |
| SW501 | Switch, Push ESB-90197S | *170306 |
| Sockets | | |
| J501 | Jack HEC0630-01-010 | 170844 |
| J801 | CRT Socket HPS0171 | 170843-2 |
| Variable Resistors | | |
| VR401 | VR Rot 500 Ω 25B52 | 170315 |
| VR402, 404 | VR SF 5k Ω | 1400227 |
| VR403 | VR SF 5k Ω VOAA00B53 | 170135 |
| VR405 | VR Rot 20k Ω K121K0Z21 | 1400035 |
| VR406 | VR 1k Ω A00B13 | 170466 |
| VR801 | VR SF 5k Ω Red | 1400197 |
| VR802 | VR SF 5k Ω Green | 1400198 |
| VR803 | VR SF 5k Ω Blue | 1400199 |
| VR804 | VR SF 5k Ω Red | 1400200 |
| VR805 | VR SF 5k Ω Blue | 1400201 |
| Fuses | | |
| F501 | Fuse FST 2A(T) 250V | 1400253 |

| Description | Ref. No. | Part No. |
|---------------------------------------|------------------------------|----------|
| Metal Oxide Resistors | | |
| 0.27 Ω /2W | R513 | 171071 |
| 1 Ω /3W | R502 | 170416 |
| 10 Ω /1/4W | R511 | 10008 |
| 15 Ω /2W | R512 | 170410 |
| 33 Ω /2W | R509 | 170411 |
| 220 Ω /2W | R433 | 809229 |
| 1k Ω /3W | R503 | 176557 |
| 1.8k Ω /2W | R427 | 170137 |
| 3.9k Ω /1W | R505 | 170407 |
| 15k Ω /1W | R805, 808, 812 | 170408 |
| Fuse Resistors | | |
| 0.82 Ω /1W | R437 | 1422141 |
| 3.3 Ω /1/2W | R438 | 170138 |
| 8.2 Ω /1/4W | R444 | 170404 |
| 33 Ω /1/2W | R520 | 175065 |
| Cement Resistors | | |
| 15 Ω /7W | R436 | 170417 |
| Electrolytic Capacitors | | |
| 1 μ VF/250V | C506 | 1422152 |
| 22 μ F/250V | C430 | 170419 |
| 100 μ F/35V | C425 | 1422157 |
| 100 μ F/50V | C512 | 171089 |
| 100 μ F/400V | C505 | 170423 |
| 220 μ F/35V | C507 | 20035 |
| 220 μ F/160V | C515 | 170851 |
| 470 μ F/16V | C405 | 176358 |
| 470 μ F/25V | C519 | 20044 |
| 470 μ F/35V | C402, 522 | 1422262 |
| 1000 μ F/10V | C518 | 130105 |
| 2200 μ F/25V | C424 | 170425 |
| Plastic Capacitors | | |
| 0.0056 μ F | C415 | 174818 |
| Metal Polypropylene Capacitors | | |
| 0.1 μ F/250V | C501 | 171609 |
| 0.82 μ F/200V | C429 | 170435 |
| 0.82 μ F/1.6kV | C431 | 170139 |
| Polyester Capacitors | | |
| 0.15 μ F/100V | C422 | 170140 |
| Ceramic Capacitors | | |
| 2200pF/4kV | C513 | 170430 |
| 0.001 μ F/2kV | C511, 801 | 1422147 |
| 0.0015 μ F/2kV | C432, 510, 514 | 170432 |
| 0.0022 μ F/2kV | C502-504 | 140023 |
| Ref. No. | Description | Part No. |
| Miscellaneous | | |
| FB401 | Transformer Flyback 3714009 | 170468 |
| TH501 | Degauss Element | 1400195 |
| V001 | Tube Cathode Ray A34JLL70X10 | 170307-A |
| ICP501 | ICP-N20 | 150442 |
| ICP502 | ICP-N38 | 170136 |
| CD005 | Cord DC | 170316/A |
| CD007 | Cord DIN | 170317/A |

CTM644 ALIGNMENT INSTRUCTIONS

| STEP | FUNCTION | SIGNAL IN | SIGNAL OUT | METHOD | REMARKS |
|--|-----------------------------------|-------------------------|--|---|---|
| 1. | Black and White Tracking. | | Monitor Screen. | 1. Turn R & B Drive Controls VR804 & VR805 fully counterclockwise. 2. Turn R, G & B Bias Controls VR801, 802, 803 fully counterclockwise. 3. Set Ser. Nor. Switch to Ser. position. | Monitor connected to CPC464. |
| 2. | Black & White Tracking. | | Monitor Screen. Monitor Oscilloscope. | 1. Adjust 120V at the collector of Q802 with Brightness Control on the Oscilloscope. 2. Rotate the screen control to fully counterclockwise & bring it back to obtain a dim line of one prominent colour. 3. Rotate the other two colours till a dim white line is obtained. 4. Bring Ser. Nor. Switch to Nor. position. | Monitor connected to CPC464. If required, adjust the colour control. |
| 3. If no satisfactory results repeat step 2. | | | | | |
| 4. | Vertical Size. | Program the paper edge. | Monitor Screen. | Adjust VR406 to obtain paper edge to be 145mm. | Use non magnetic ruler. |
| 5. | Focus Adjustment. | Program the paper edge. | Monitor Screen. | Adjust Focus Control on the Flyback Tx for maximum definition & details. | Brightness & Contrast controls set to normal viewing. |
| 6. | 5V Adjustment. | Switch on the Monitor. | A.V.O. Meter. | Connect A.V.O. across C518 & adjust VR501 to obtain 5V exactly. | |
| This adjustment (6) should not be disturbed under normal conditions. | | | | | |
| 7. | Sub Brightness Control. | Switch on the Monitor. | A.V.O. Meter. | Connect A.V.O. to collector of Q802. Adjust VR402 to read 123V - 124V. | Keep Brightness Control to maximum position. |
| 8. | Sub H. Hold & H. Hold Adjustment. | Switch on the Monitor. | Frequency Counter. | Rotate H. Hold fully counterclockwise. 1. Adjust VR404 to read 14500Hz. 2. Adjust VR403 to read 15625Hz. | Read the Meter across CRT Heater & Earth. |

MECHANICAL EXPLODED VIEW

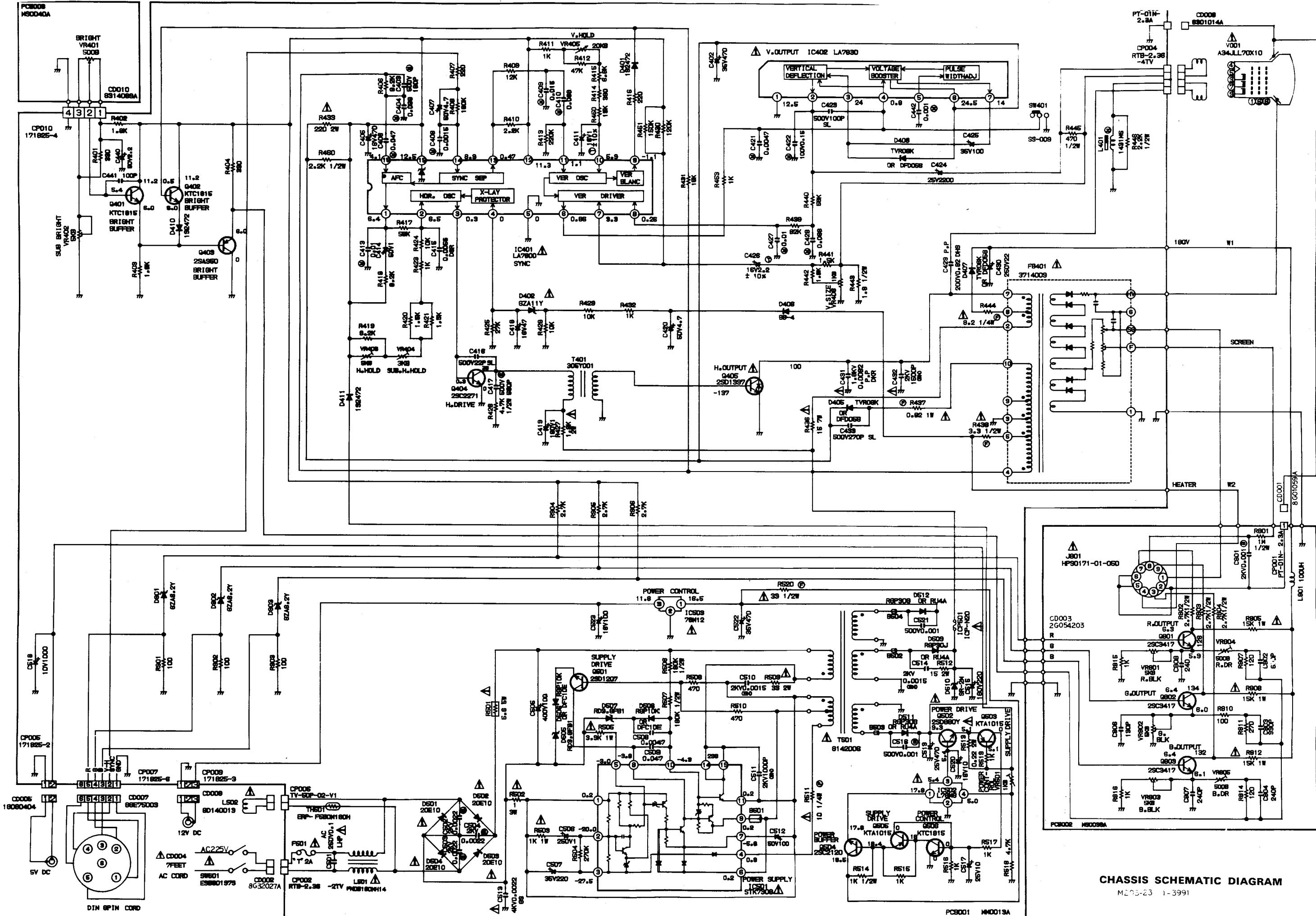


CTM644 MkII CABINET PARTS LIST

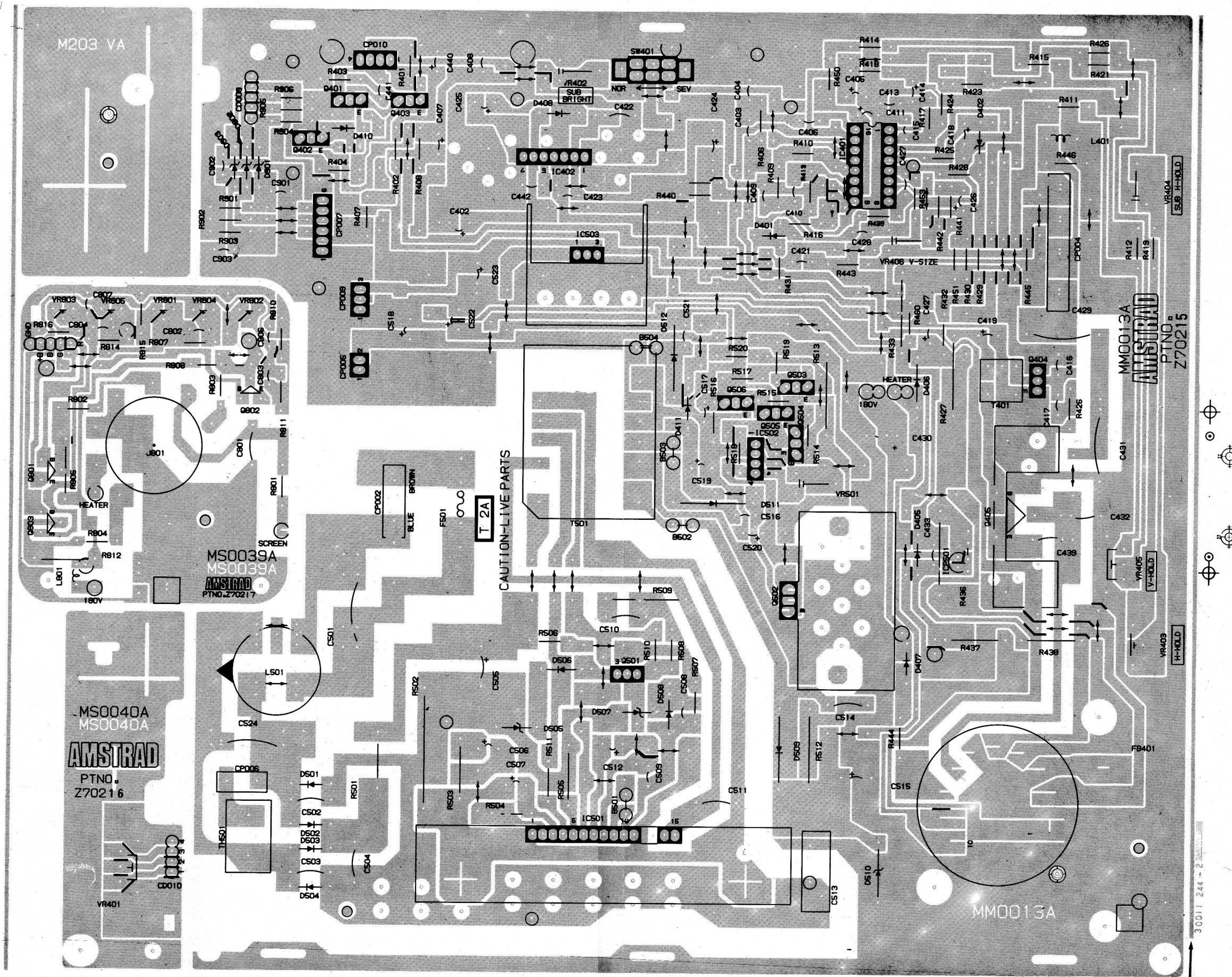
| Ref. | Description | Part No. |
|------|---------------|----------|
| 1 | Cabinet Front | 170841/A |
| 2 | Knob Control | 170304 |
| 3 | Button, Push | 170305 |
| 15 | Handle | 170312 |
| 16 | Cabinet, Back | 170313/A |

*For parts not listed above
please refer to original manual

CTM644 CHASSIS SCHEMATIC DIAGRAM



CTM644 MAIN/CRT P.C.B.



MAJOR COMPONENTS LOCATION GUIDE

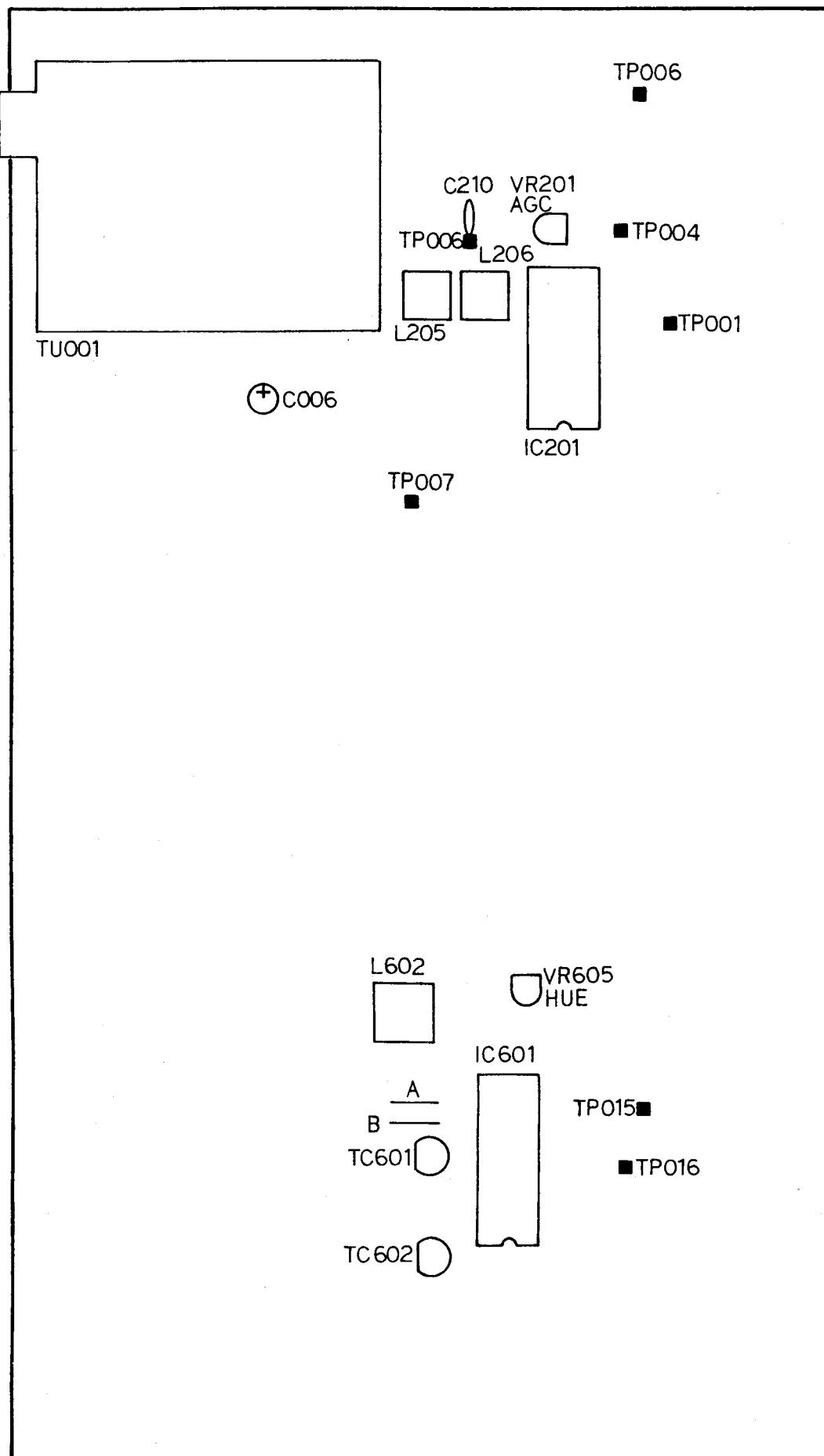


Fig. 1

MP3

SECTION

MP3 ALIGNMENT INSTRUCTIONS

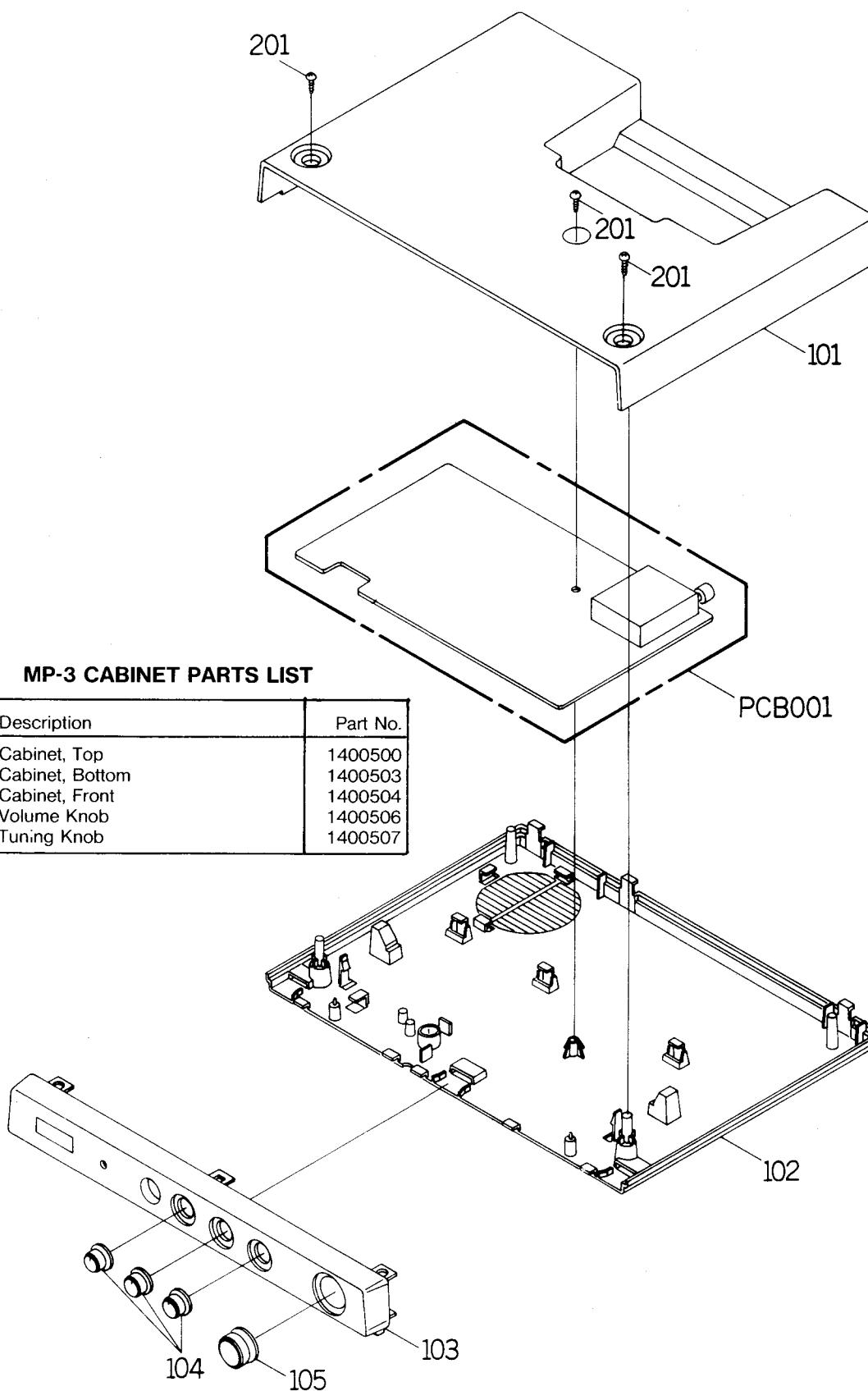
Equipment required: D.B. O'scope; A.V.O.; Pattern Generator; Sweep Mark Generator.

| STEP | FUNCTION | SIGNAL IN | SIGNAL OUT | METHOD | REMARKS |
|------|-------------------------|--|---|--|---|
| 1. | A.F.T. Adjustment. | — | T.P. on the Tuner Pack. | Adjust L205 to read fixed voltage at TP006 using A.F.T. Switch from off to on. | — |
| 2. | R.F. A.G.C. Adjustment. | Test Pattern at 80dB. | T.P.005 | Adjust VR201 to read 3.9V on A.G.C. pin on the Tuner. | — |
| 3. | Hue Delay Adjustment. | Test Signal from Pattern Generator to Aerial in Socket. | At points "A" & "B" across Video Buffer circuitry Q602, Q603. | Set VR601-1 to max. wave form on the 'scope using VR605, TC602, L602 to straight lines. | — |
| 4. | A.P.C. Adjustment. | Test Signal from Pattern Generator to Aerial in Socket. Colour Bar selected. | 'Scope TP015 & TP016. | Adjust TC601 to max. output on the 'scope. | — |
| 5. | Video I.F. adjustment. | Test Signal from Pattern Generator to Aerial in Socket. Standard Signal. | O'scope. | i) Connect 10kΩ variable between TP004 & ground. ii) Adjust L206 to obtain max. output on the response curve "A" at 39.5MHz. iii) Connect 100Ω between TP009 & PT010. Adjust IFT on Tuner to obtain max. output in Waveform "B". iv) Disconnect 10Ω variable & 100Ω resistors. Short C006 & C210 and reconnect sweep gen. to TP007 & TP006. v) Adjust L502 to place 39.5MHz marker on the ref. line on the response curve, "C". vi) Disconnect short between C006 & C210. | Connect H & V outputs of sweep gen. to test point TP001 and ground to TP007. Control signal in to prevent A.G.C. Set A.F.T. switch to on. |

MP3 ELECTRICAL PARTS LIST

| Ref. No. | Description | Part No. |
|---------------------------|--------------------------------|----------|
| IC's | | |
| IC201 | IC LA7520N | 1409198 |
| IC351 | IC LA4140 | 1400511 |
| IC401 | IC M52684AP | 1400512 |
| IC501 | IC UPC574J-T | 1400513 |
| IC502 | IC LB8555D | 1400514 |
| IC601 | IC AN5620X | 1400104 |
| IC602 | IC AN5612 | 1400105 |
| Transistors | | |
| Q201 | TR 2SC3000-AA | 151718 |
| Q401, 402, 601-603 | TR 2SC945-T | 1400109 |
| Diodes | | |
| D501-506 | D 11E1TAI-T | 1400508 |
| D509 | LED | 1400509 |
| D601-603 | DZ GZA11 | 1400510 |
| Coils | | |
| L202 | Coil 1.8μH | 1400626 |
| L204 | Coil 16084SU Video IFT | 1400663 |
| L205 | Coil 3600016 | 1400517 |
| L206 | Coil 3600017 | 1400518 |
| L207 | Coil 10μH | 1400523 |
| L301 | Coil 12μH | 1400519 |
| L401 | Coil 4.7mH | 1400520 |
| L501 | Coil 270μH | 1400521 |
| L602 | Coil 353001 | 1400522 |
| L605 | Coil 5.6μH | 1409212 |
| L606 | Coil 47μH | 1400524 |
| Crystals | | |
| X601 | Crystal NR-18 4.433619MHz | 1400541 |
| X401 | Ceramic Oscillator CSB500F9 | 1400540 |
| Sockets | | |
| J601 | Jack, DIN | 1400525 |
| Variable Resistors | | |
| VR201 | VR SF 4.7kΩ | 1400526 |
| VR501 | VR Rot 100kΩ Tuning | 1400527 |
| VR601 | VR Rot 10k+10k+10k Con+Col+Snd | 1400528 |
| VR605 | VR SF 2.2kΩ Hue Con | 1400529 |
| Miscellaneous | | |
| DL601 | Delay Line Glass EFDEN645A31F | 1400535 |
| DL602 | Delay ELT-10Z334 | 1400536 |
| SP351 | Speaker | 1400537 |
| TU001 | Tuner U | 1400539 |

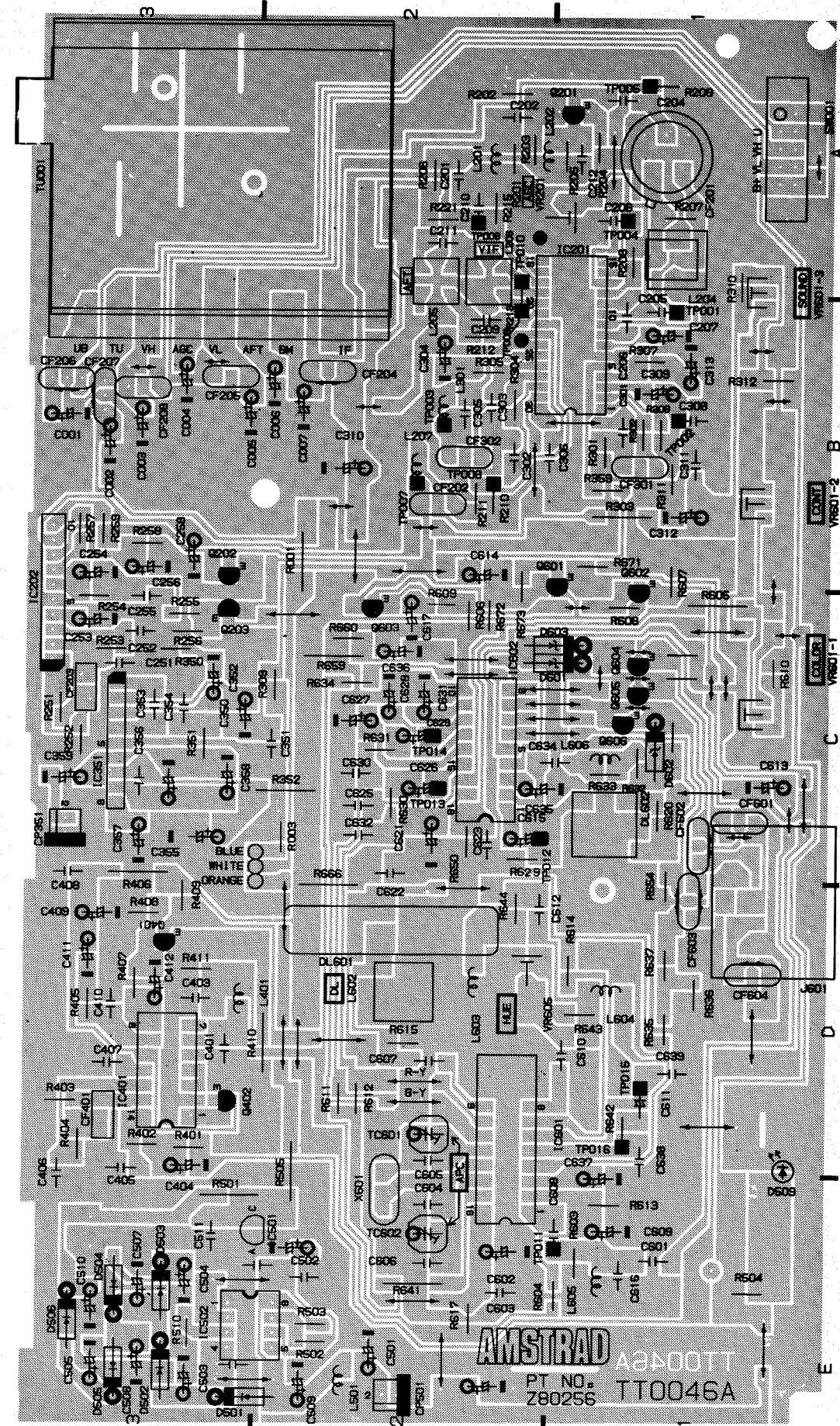
MP3 CABINET EXPLODED VIEW



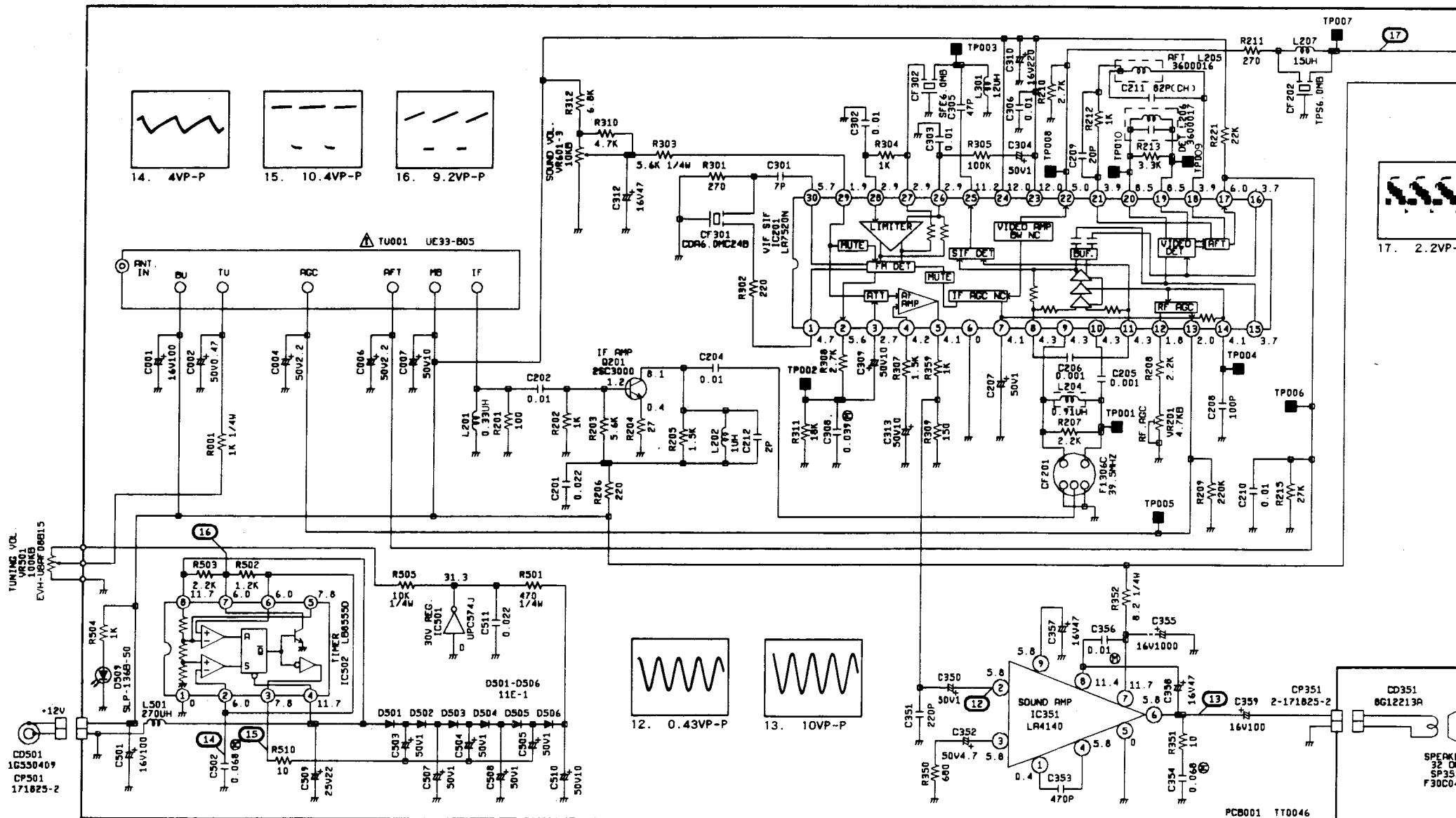
MP-3 CABINET PARTS LIST

| Ref. | Description | Part No. |
|------|-----------------|----------|
| 1 | Cabinet, Top | 1400500 |
| 2 | Cabinet, Bottom | 1400503 |
| 3 | Cabinet, Front | 1400504 |
| 4 | Volume Knob | 1400506 |
| 5 | Tuning Knob | 1400507 |

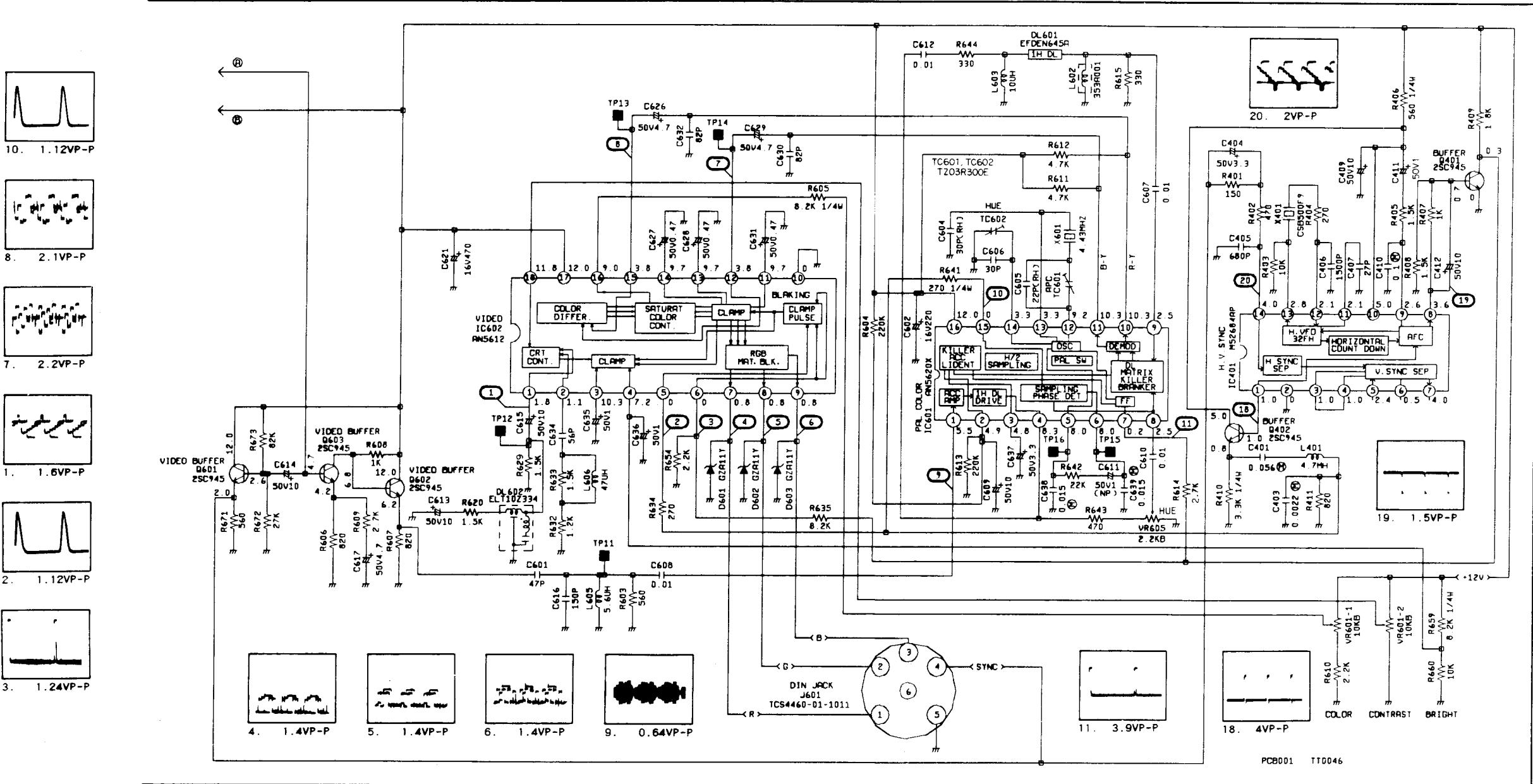
MP3 TUNER P.C.B.



MP3 TUNER SECTION CHASSIS SCHEMATIC DIAGRAM



MP3 VIDEO OUT CHASSIS SCHEMATIC DIAGRAM



CAUTION: SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED ON PARTS LIST ONLY.

ATTENTION: LES PIECES REPERES PAR UN ETANT DANGEREUSES EN POINT DE VUE SECURITE NE UTILISER QUE CELLES DECRISES DANS LA NOMENCLATURE DES PIECES.

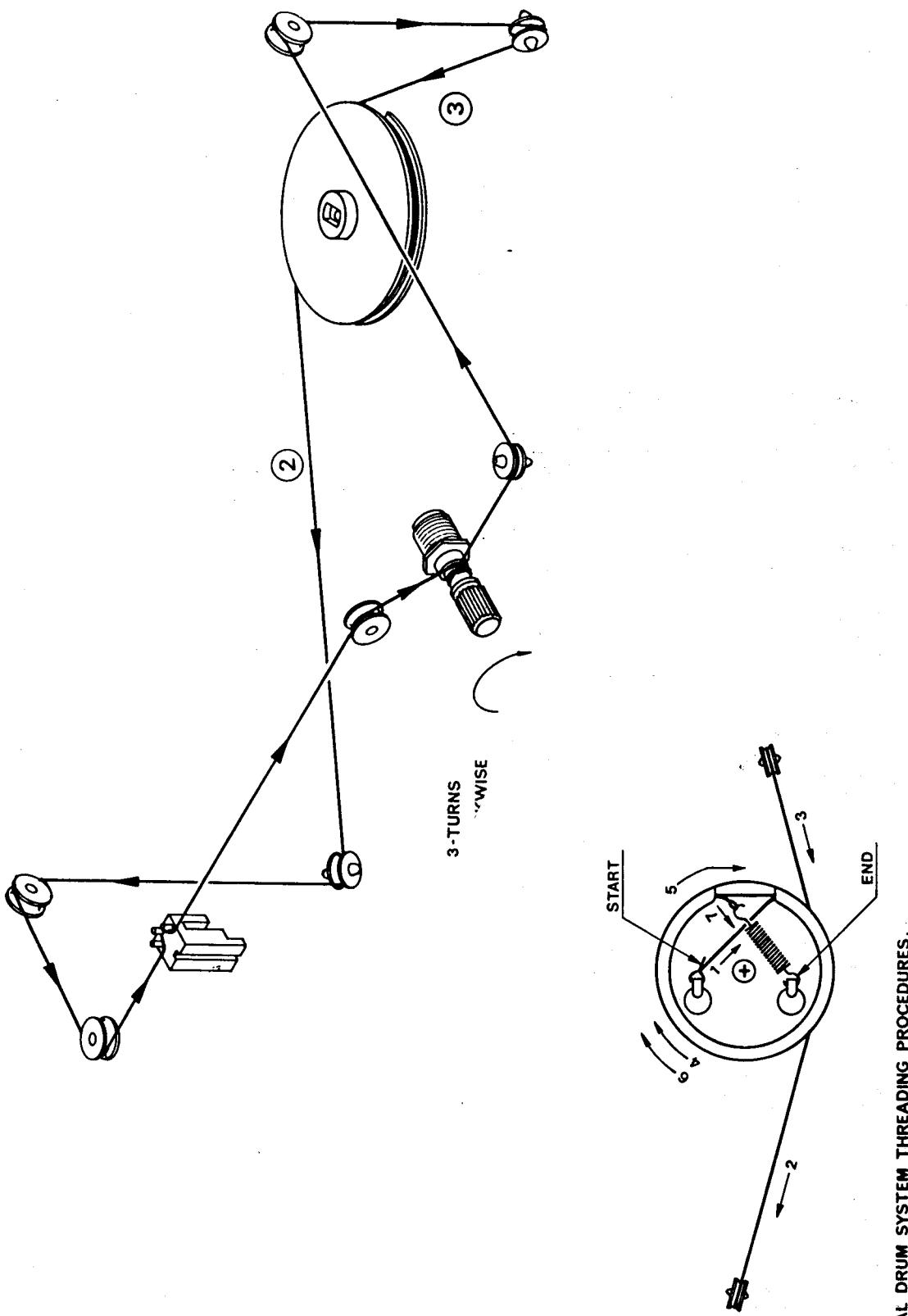
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

**CT1
SECTION**

CT-1 ELECTRICAL PARTS LIST

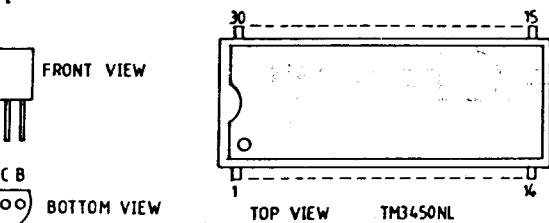
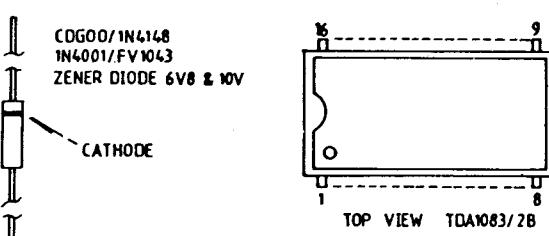
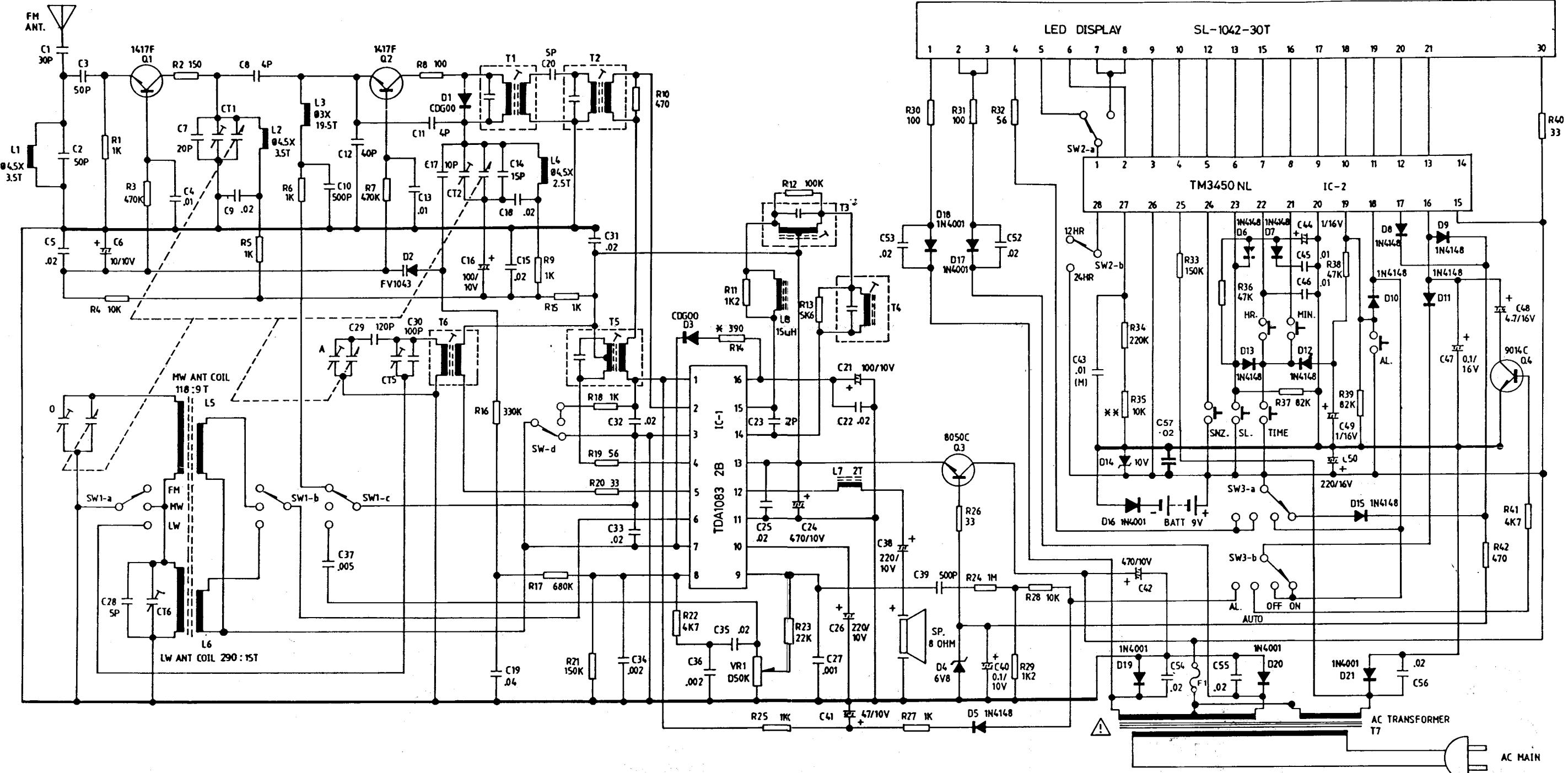
| Ref. No. | Description | Part No. |
|----------------------|-------------------------------|----------|
| IC's | | |
| IC2 | IC TMS 3450 | 160420 |
| IC1 | IC TDA 1083 | 160421 |
| Transistors | | |
| Q3 | TR 8050C | 160414 |
| Q4 | TR 9014C | 160415 |
| Q1, 2 | TR 1417F | 160416 |
| Diodes | | |
| D1, 3 | D CDG-00 | 160417 |
| D2 | D AFC Diode FV1043 | 160418 |
| D4 | D 6.8V | 160436 |
| D5-13, 15 | D IN4148 | 190715 |
| D14 | DI 10V | 160419 |
| D16-21 | D Rectifier IN4001 | 192016 |
| Coils | | |
| L1, 2 | FM Ant Coil 1033 | 160422 |
| L4 | FM Osc Coil 1032 | 160423 |
| L3 | FM Trap Coil 1008 | 160424 |
| T6 | AM Osc Coil Red 6001 | 160425 |
| | Chock Coil 2T | 160431 |
| L5 | AM Ant. Coil | 160432 |
| L6 | LW Ant. Coil | 160433 |
| L8 | FM IF Chock Coil 2005 | 160434 |
| A | Trimmer 16pF | 160405 |
| T1 | FM 1st IFT Orange F548-702985 | 160428 |
| T2 | FM 2nd IFT Green CEC-F14 | 160429 |
| T4 | FM Det IFT Pink F784-702987 | 160430 |
| CT | AM/FM PVC 5376 | 160100 |
| Ref. No. | Description | Part No. |
| Switches | | |
| SW3 | Slide Switch SK24F01-M9 | 160402 |
| SW1,2 | Slide Switch SK43D01-M9 | 160403 |
| Fuses | | |
| | Fuse T315mA | 160409 |
| Miscellaneous | | |
| | Ferriter Bar | 160404 |
| | Speaker 8Ω | 160406 |
| | AC Transformer | 160435 |
| | Display Red | 160407 |

CT1 DIAL WIRING



DIAL DRUM SYSTEM THREADING PROCEDURES.
(P.C.B. WIRING-BOTTOM VIEW)

CT1 SCHEMATIC CIRCUIT DIAGRAM



SWITCH :
SW1a-d
SW2a-b
SW3a-b

NOTE :

- ALL RESISTOR ARE IN OHM $\pm 5\%$ 1/4 WATT UNLESS OTHERWISE SPECIFIED.
- ALL CAPACITOR ARE IN MFD UNLESS OTHERWISE SPECIFIED.
- VOLTAGE MEASUREMENT ARE RESPECT TO NEGATIVE GROUND WITH DIGITAL METER.

VOLTAGE CHART UNIT: VOLT

| PIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|------|------|------|----|----|----|----|----|----|-----|-----|------|----|----|
| VOLT | 6.4 | 4.7 | 9.6 | 9.6 | 6.4 | 4.7 | 9.6 | 6.4 | 9.6 | 4.7 | 9.6 | 9.6 | NL | 9.9 | 0.03 | 0.48 | 0.02 | 0 | 0 | 1 | 0 | 0 | 0 | 6.4 | 9.9 | 5.94 | 0 | |

| PIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|------|------|------|---|------|------|------|------|------|---|------|----|-----|------|------|------|------|
| F.M. | 1.49 | 1.34 | 0 | 6.39 | 6.39 | 0 | 0 | 1.83 | 0 | 1.25 | 0 | 3.0 | 6.39 | 6.39 | 6.39 | 1.89 |
| M.W. | 1.25 | 1.22 | 0 | 6.39 | 6.39 | 1.2 | 1.25 | 1.54 | 0 | 1.25 | 0 | 3.0 | 6.39 | 6.39 | 6.39 | 1.53 |
| L.W. | 1.25 | 1.23 | 0 | 6.39 | 6.39 | 1.17 | 1.25 | 1.56 | 0 | 1.25 | 0 | 3.0 | 6.39 | 6.39 | 6.39 | 1.54 |

| TR | Q1 | Q2 | Q3 | Q4 |
|------|-------|-------|-------|-------|
| VOLT | 1417F | 1417F | 8050C | 9014C |
| VC | 4.68 | 4.67 | 9.52 | 0.01 |
| VB | 1.23 | 1.16 | 7.06 | 0.74 |
| VE | 0.54 | 0.55 | 6.39 | 0 |

CT1 WIRING DIAGRAM

