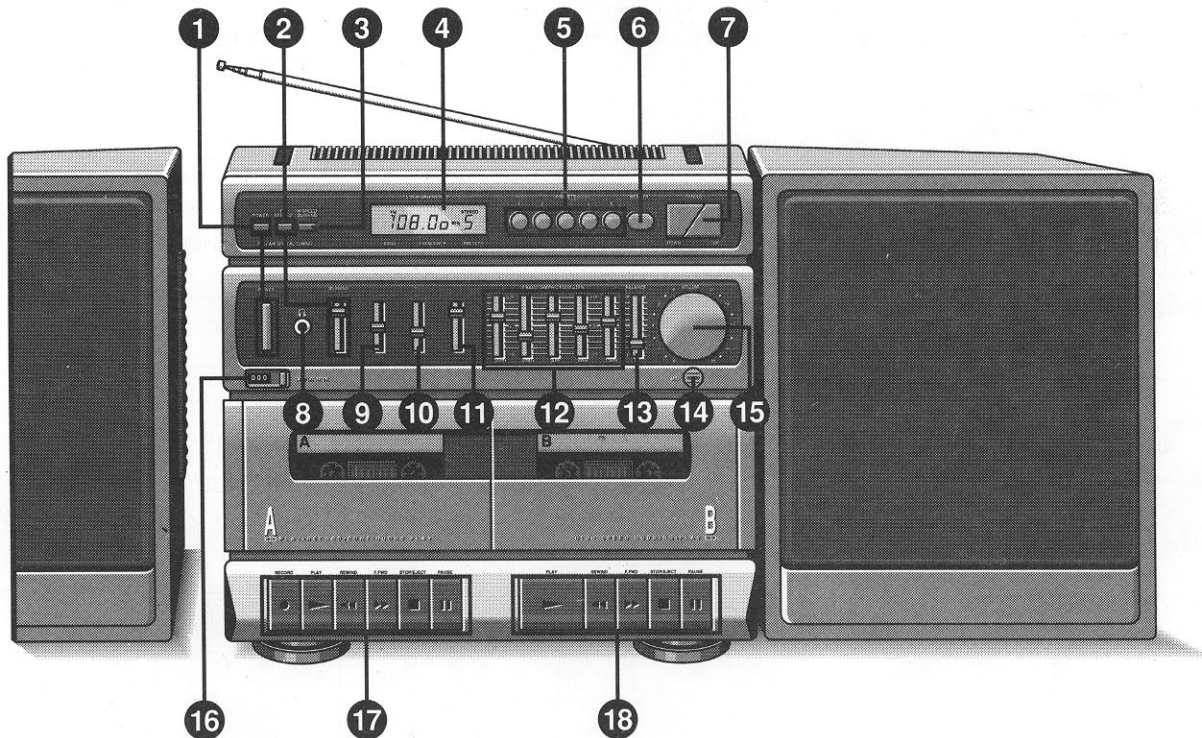


Service Service Service

For repair information of the cassette mechanism see
Service Manual TN-521ZSW-506

Service Manual



Documentation Technique Service Dokumentation Documentazione di Servizio Huolto-Ohje Manual de Servicio Manual de Servicio

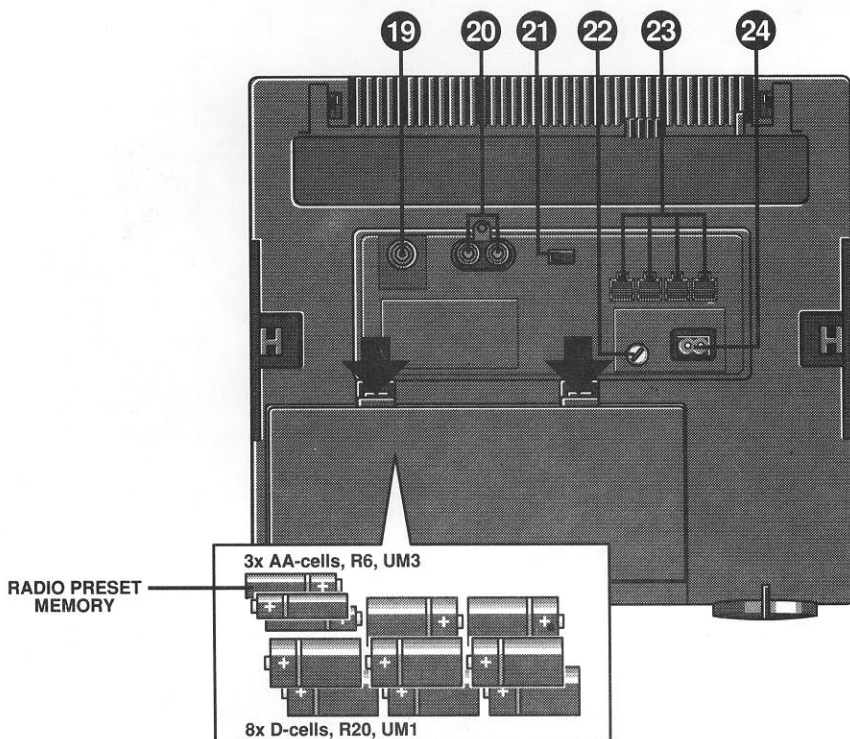


Subject to modification
4822 725 22622
Printed in The Netherlands
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PHILIPS

Published by
Consumer Electronics

see



Function

- 1 Power on/off
- 2 Dubbing speed
- 3 Stereo indicator
- 4 Display
- 5 Preset buttons
- 6 Memory store
- 7
- 8 Ω
- 9 Function select
- 10 Mono/Stereo
- 11 Bandswitch
- 12 Graphic Equalizer VR 301-305

- 13 VR 306
- 14
- 15 VR 307
- 16 Counter
- 17 Deck functions A
- 18 Deck functions B
- 19 Ext. Aerial (not for /02)
- 20 CD/AUX input
- 21 R/F Switch
- 22 not present
- 23 R/L
- 24 V ~ J406

Speci



AM IF
FM IF
MW
LW
FM

CASS

HI-S


NOR.


REMA


CASS

HEAD

Specifications:

 /00 220V/50Hz
 /05 240V/50Hz

 3V (2 x R6) Back-up
 12V (8xR20) power

 mains operation: 2x2 W
 (D=10%)

 AM IF 468 kHz
 FM IF 10.7 MHz
 MW 526.5-1606,5 kHz
 LW 150-255 kHz
 FM 87.5-108 MHz

Tape speed 4.76 cm/sec. \pm 2%
 Wow and flutter < 0.35 %
 Signal to noise ratio \leq 40 dB
 \leq 37 dB dubbing
 \leq 37 dB H.S. dubbing
 \leq 22 dB AM recording

 Frequency response: 250-6300 Hz
 (within \pm 8 dB) 250-6300 Hz dubbing
 250-5000 Hz H.S. dubbing
 250-2000 Hz AM recording


 Equalizer control: 100Hz/500Hz/3000Hz
 /5000Hz/12000Hz
 -6 dB to +6 dB

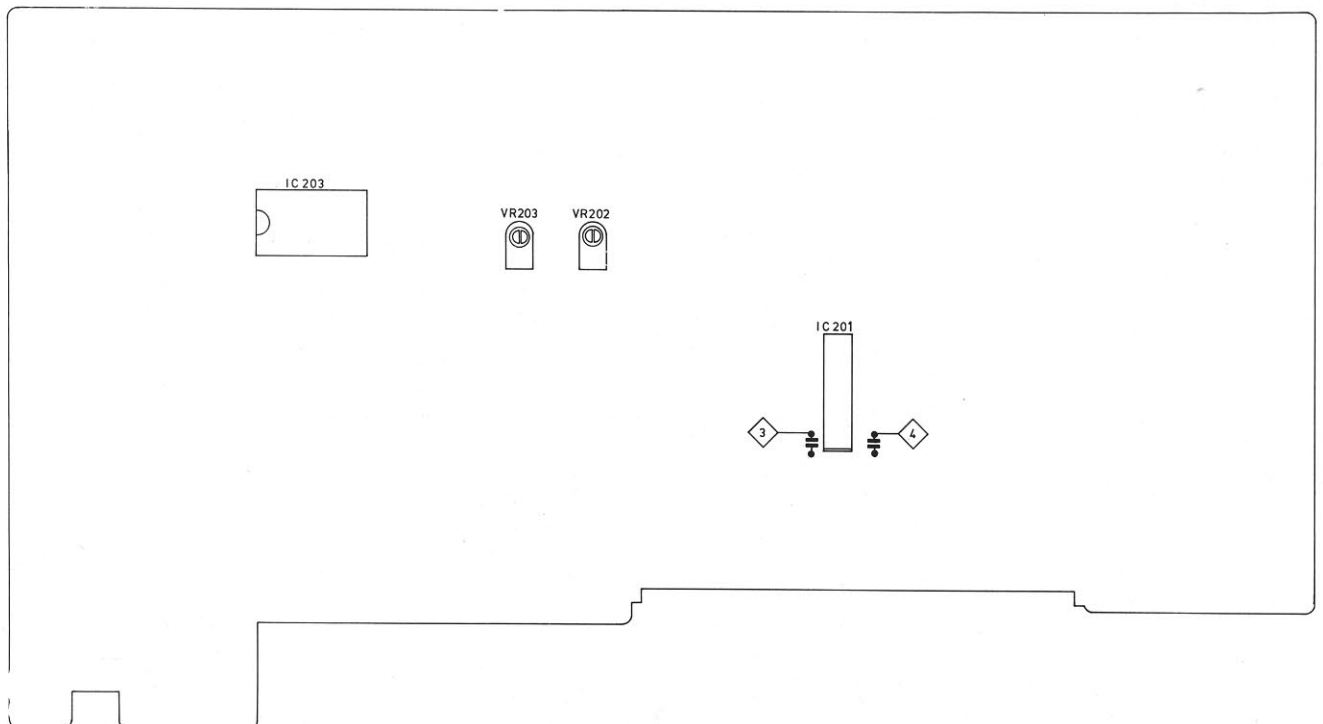
CASSETTE SPEED ALIGNMENT

| POSITION | SIGNAL | TO | | ADJUST | |
|----------------|----------------|--------|------------|--------|--------------|
| HI-SPEED DUB | TEST TAPE 3KHz | DECK B | PLAYBACK | VR202 | COUNTER 6KHz |
| | C60 BLANK TAPE | DECK A | PAUSE/REC. | | |
| NOR. SPEED DUB | TEST TAPE 3KHz | DECK B | PLAYBACK | VR203 | COUNTER 3KHz |

REMARK : ALIG. HI-SPEED FIRST, BECAUSE VALUE OF VR202 WILL AFFECT NOR. SPEED

CASSETTE ALIGNMENT & SPEC.

| | | | | | |
|------------|---------------|--|----------|-----------------|---|
| HEAD ANGLE | TEST TAPE 10K | | PLAYBACK | HEAD ADJ. SCREW | MAX  |
|------------|---------------|--|----------|-----------------|---|



ALIGNMENT PROCEDURE

RF CIRCUIT

GENERAL :

1. SIGNAL INPUT MUST BE AS LOW AS POSSIBLE TO AVOID OVERLOAD AND ALIPPING. (USE HIGHEST SENSITIVITY OF OUTPUT INDICATOR).
 2. VOLUME CONTROL AT MAXIMUM, BALANCE AND TONE CONTROLS AT MECHANICA CENTER.
 3. STANDARD MODULATION IS 400Hz AT 30% AMPLITUDE FOR AM 1000Hz AT 22.5KHz DEVIATION FOR FM.
 4. CONNECT 8 OHM LOAD ACROSS SPEAKER JACK.
1. AM SIGNAL GENERATOR
 2. FM SIGNAL GENERATOR
 3. V.T.V.M
 4. FREQUENCY COUNTER

RADIO ALIGNMENT

| SK.....A POSITION | SIGNAL | TO | TUNE IN | ADJUST | |
|----------------------|---------------------|-----|---------------------|-------------------|----------|
| AM | 450 KHz | ⬢ B | | T103 T104 | |
| LW | 281 KHz | ⬢ C | | T106 | 7.6V DC |
| | 164 KHz 272 KHz | ⬢ D | 164 KHz 272 KHz | L108 CT103 | MAX ⬢ 1 |
| MW | 1620 KHz | ⬢ C | 1620 KHz | T102 | 7.18V DC |
| | 603 KHz 1404 KHz | ⬢ B | 603 KHz 1404 KHz | L102 CT102 | MAX ⬢ 1 |
| FM | 10.7 MHz | ⬢ A | | CHECK IF CURVE | MAX ⬢ 1 |
| FM | 108 MHz | ⬢ C | 108 MHz | L106 | 6.6V DC |
| | 88 MHz 106 MHz | ⬢ A | 88 MHz 106 MHz | L101 CT101 | MAX ⬢ 1 |

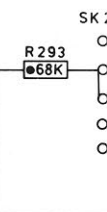
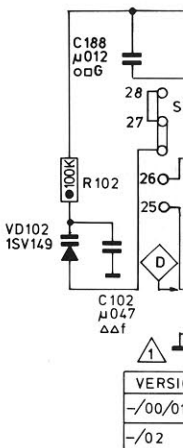
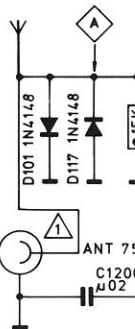
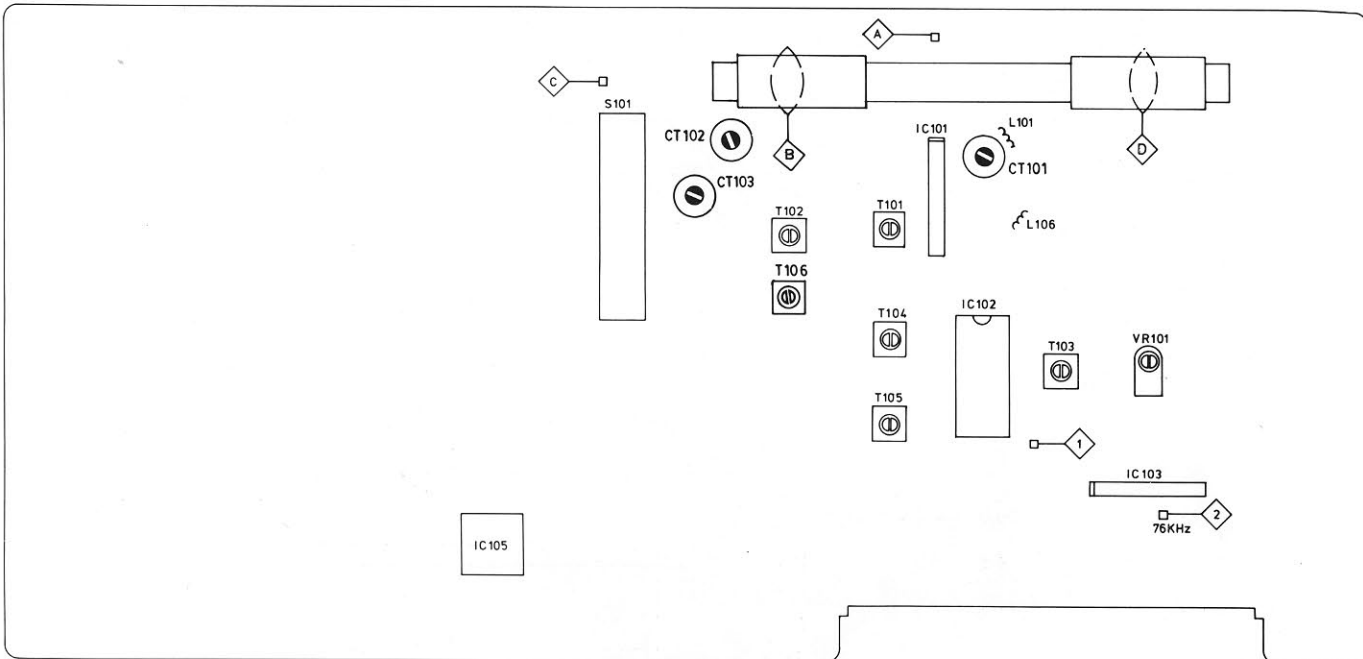
STEREO DECODER

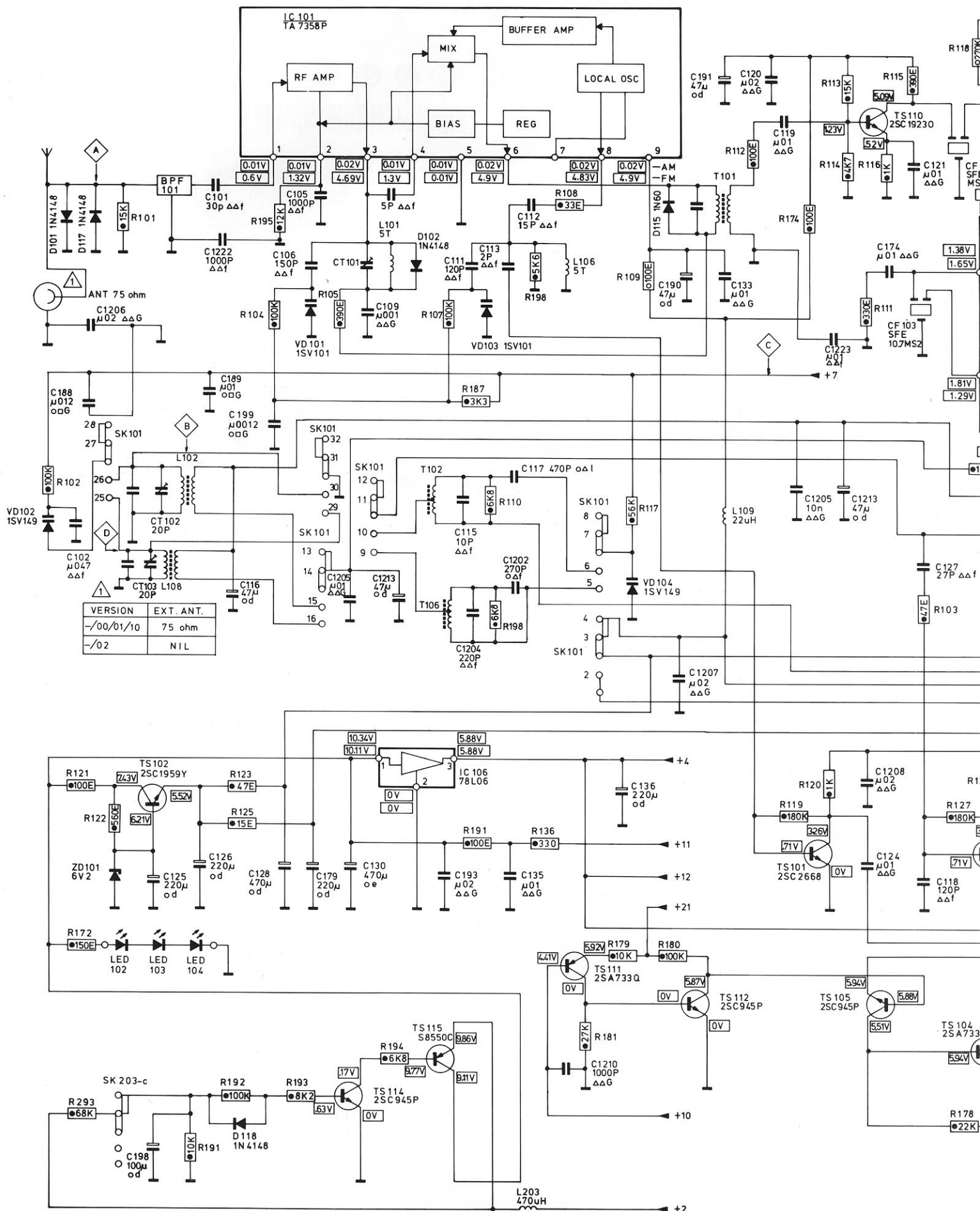
| | | | | | |
|----|-----------|-----|--|-------|-----------------------|
| FM | NO SIGNAL | ⬢ A | | VR101 | COUNTER 76 KHz ⬢ 2 |
|----|-----------|-----|--|-------|-----------------------|

CASSETTE ALIGNMENT & SPEC.

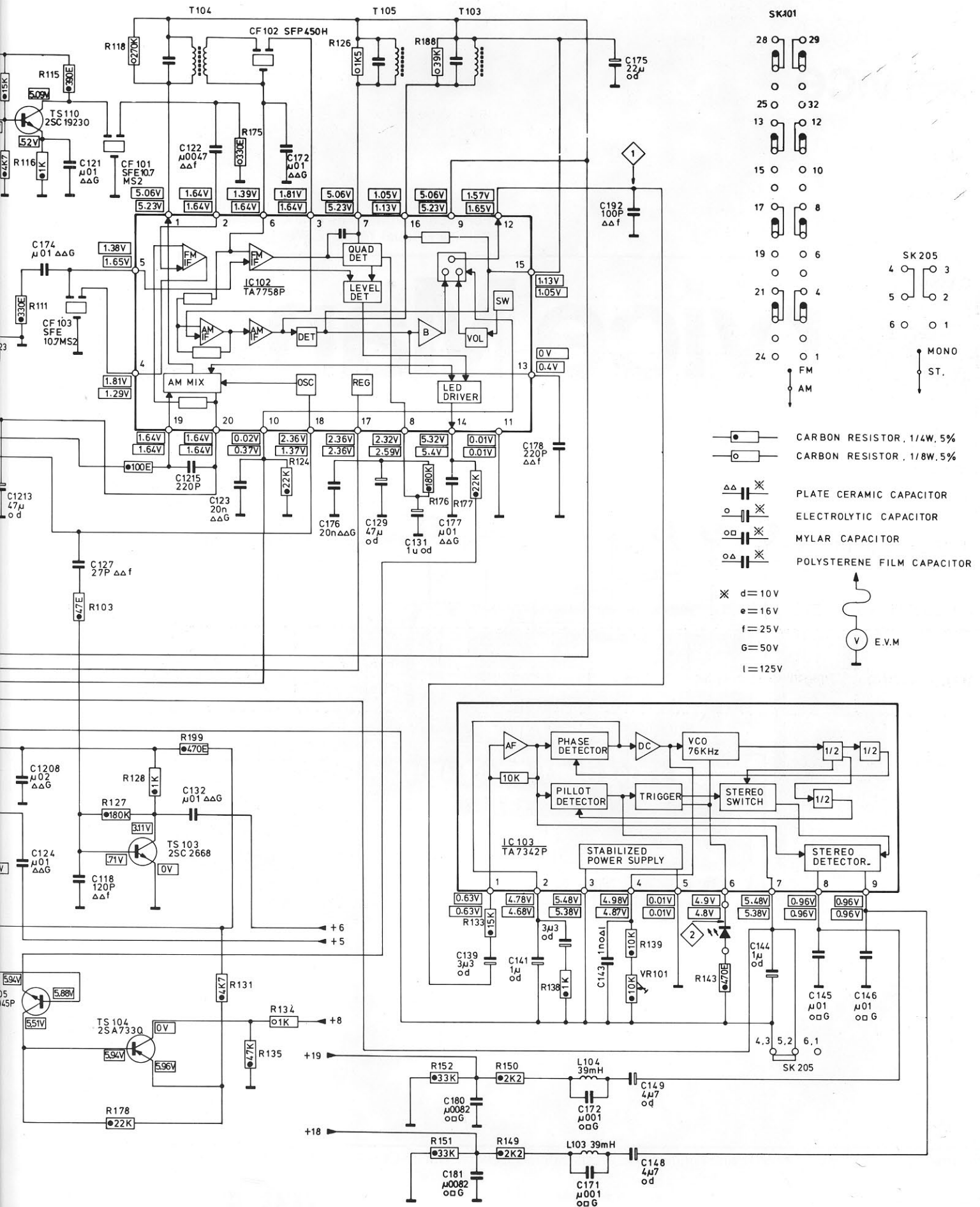
| | | | | | |
|------------|---------------|--|----------|--------------------|-------------|
| HEAD ANGLE | TEST TAPE 10K | | PLAYBACK | HEAD ADJ. SCREW | MAX ⬢ 3 ⬢ 4 |
|------------|---------------|--|----------|--------------------|-------------|

TUNER PCB

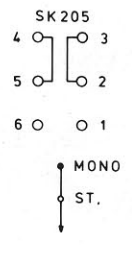
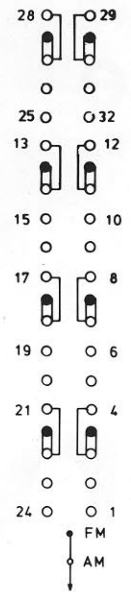




Schematic Diagram



SK401



- CARBON RESISTOR, 1/4W, 5%
 - CARBON RESISTOR, 1/8W, 5%
 - PLATE CERAMIC CAPACITOR
 - ELECTROLYTIC CAPACITOR
 - MYLAR CAPACITOR
 - POLYESTERENE FILM CAPACITOR
- * d = 10V
 e = 16V
 f = 25V
 G = 50V
 I = 125V
-
- E.V.M.

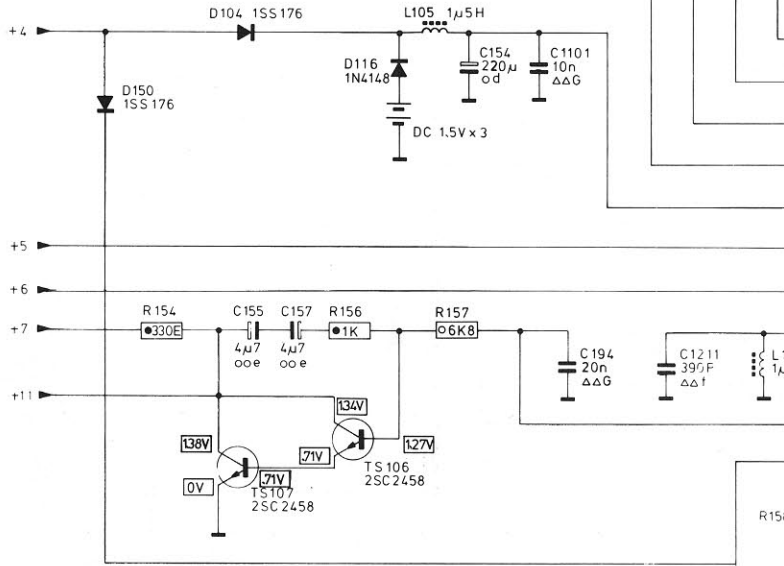
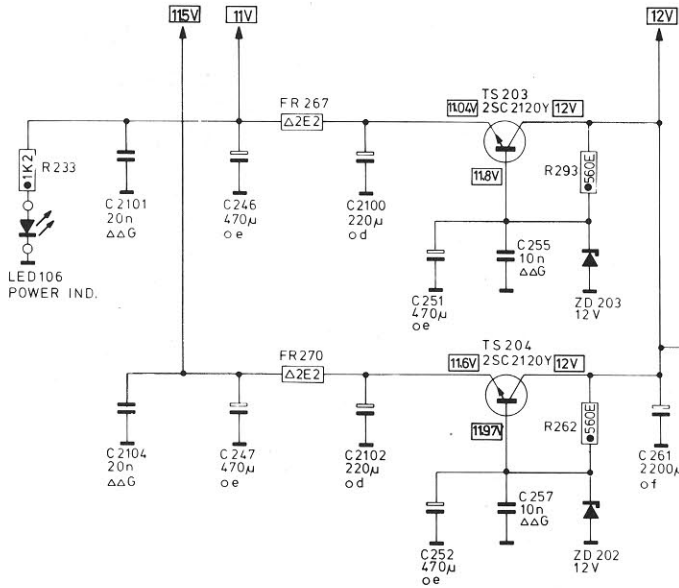
SK 204



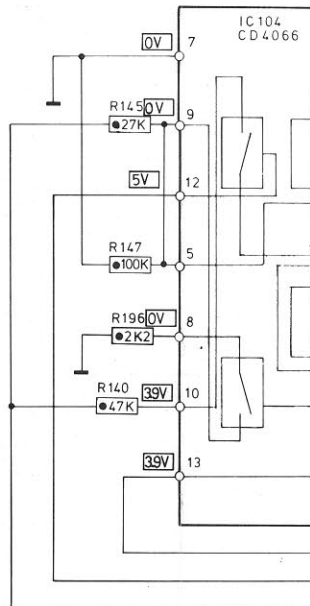
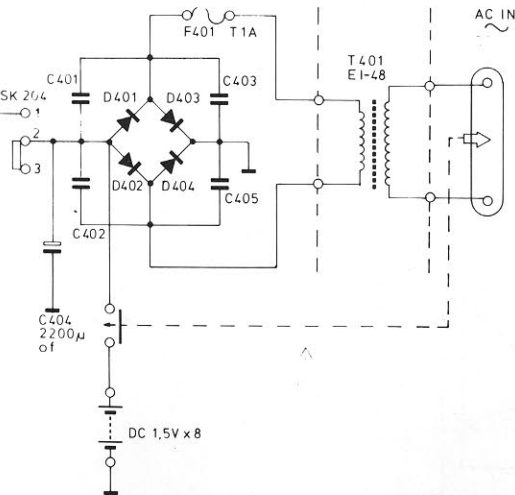
POWER OFF
POWER ON

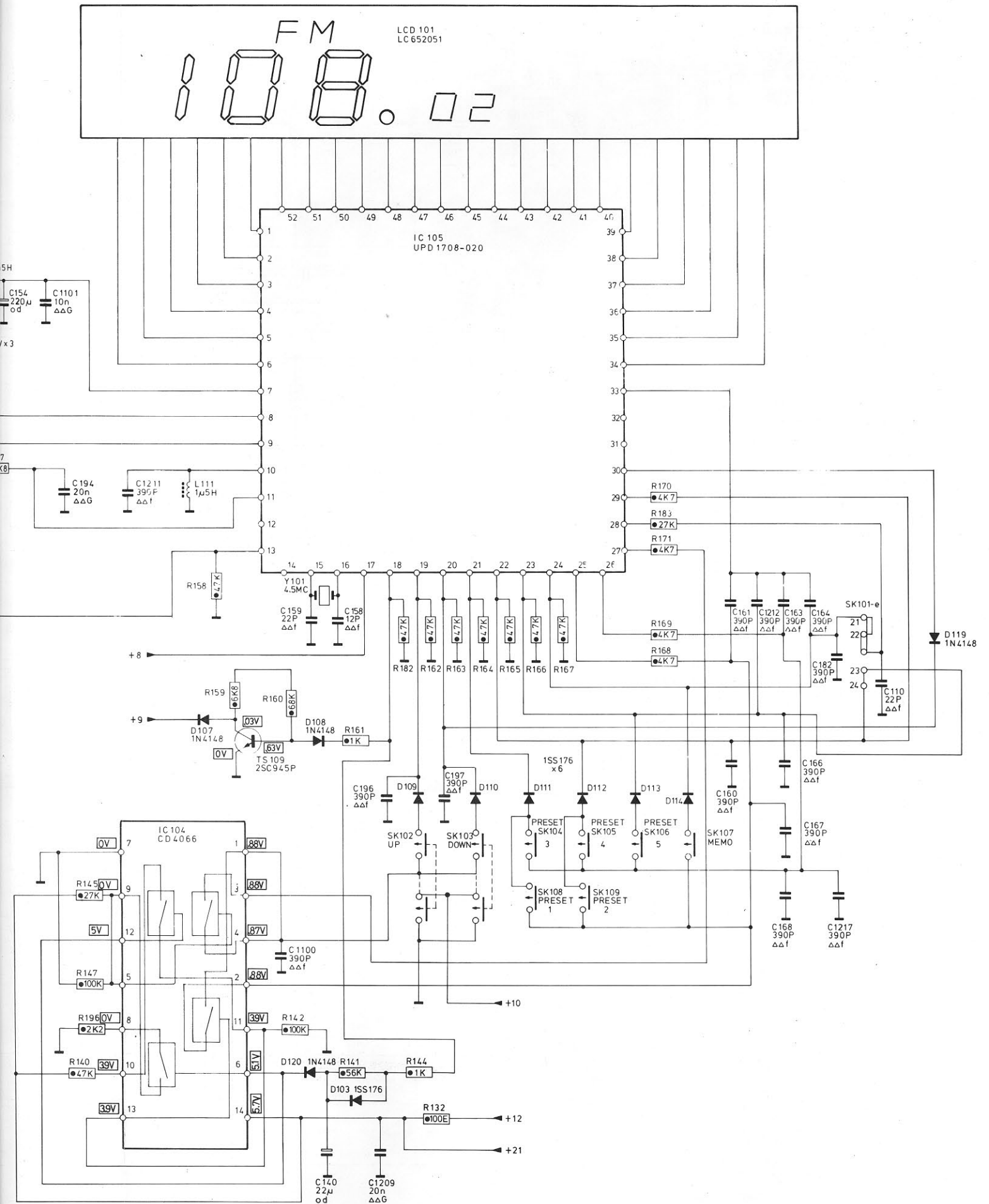
- CARBON RESISTOR, 1/4W, 5%
- CARBON RESISTOR, 1/8W, 5%
- FUSE RESISTOR, 1/4W, 5%
- PLATE CERAMIC CAPACITOR
- ELECTROLYTIC CAPACITOR
- TANTALUM CAPACITOR

- * d = 10V
- e = 16V
- f = 25V
- G = 50V



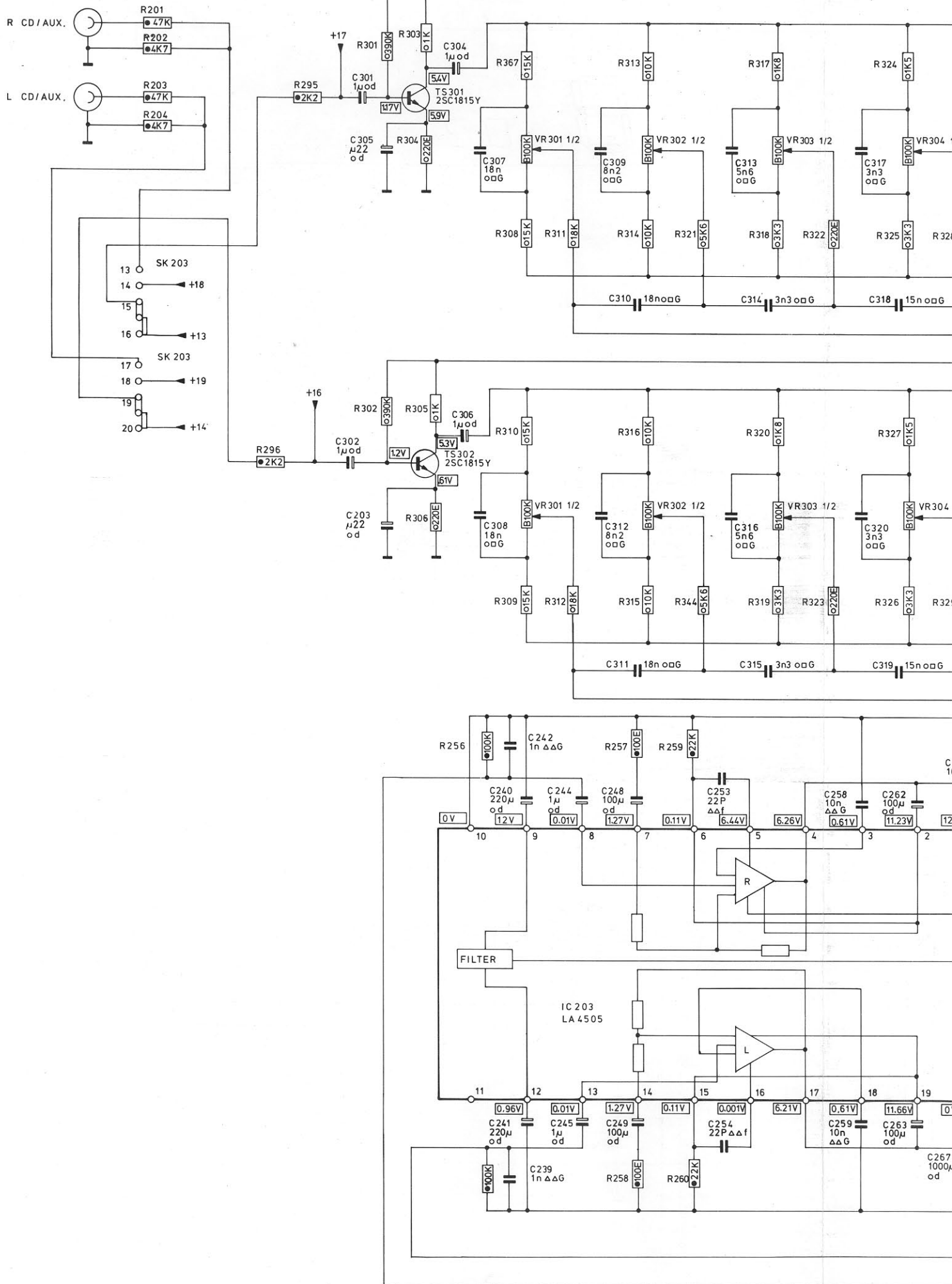
D401-D404
1N4001
C401-C403 AND C405
20n ΔΔG



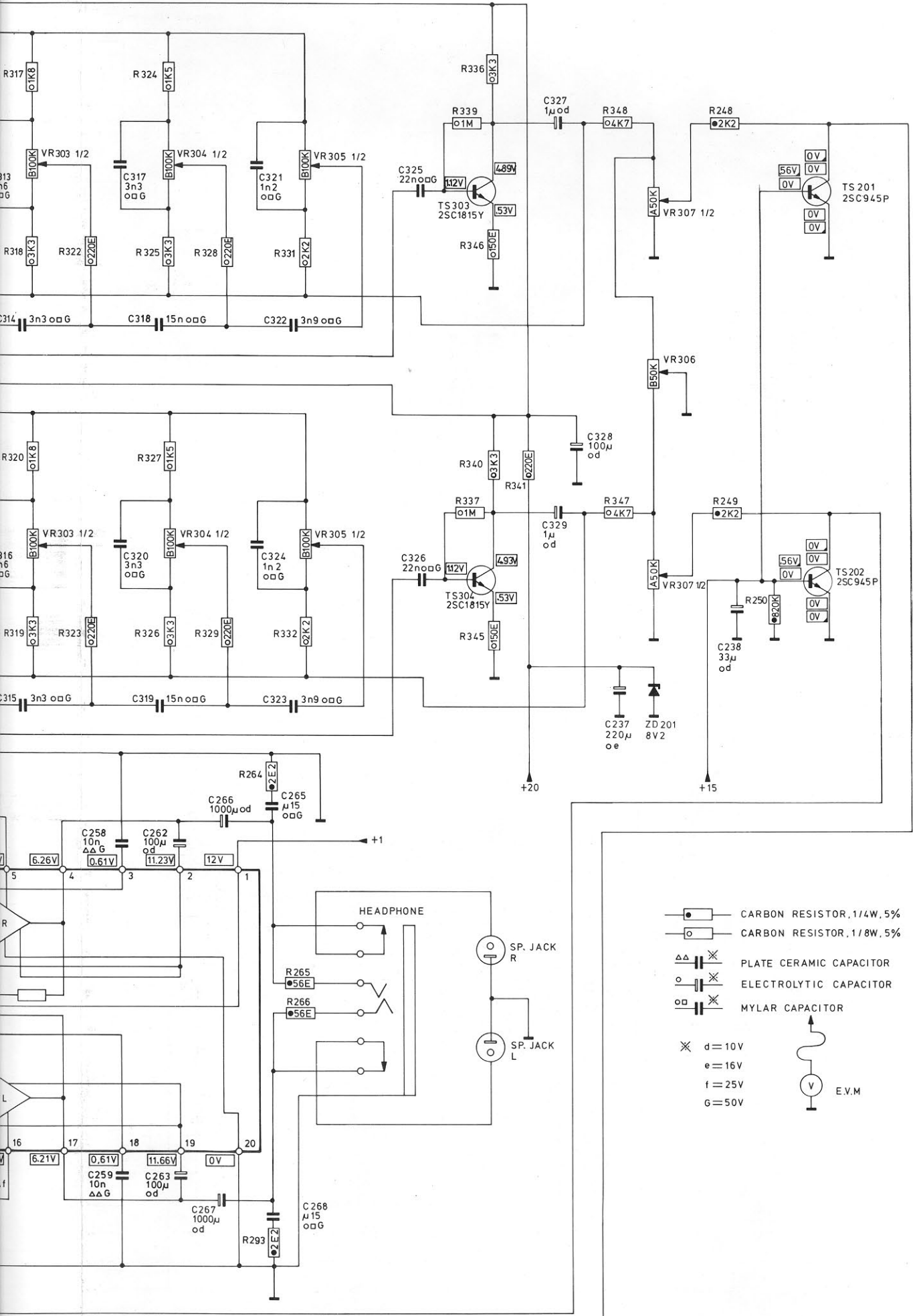


EQ & AF CIRCUIT

Schematic Diagram

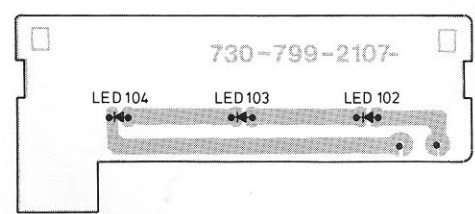
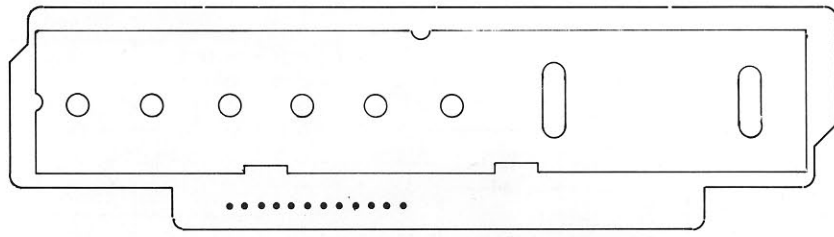
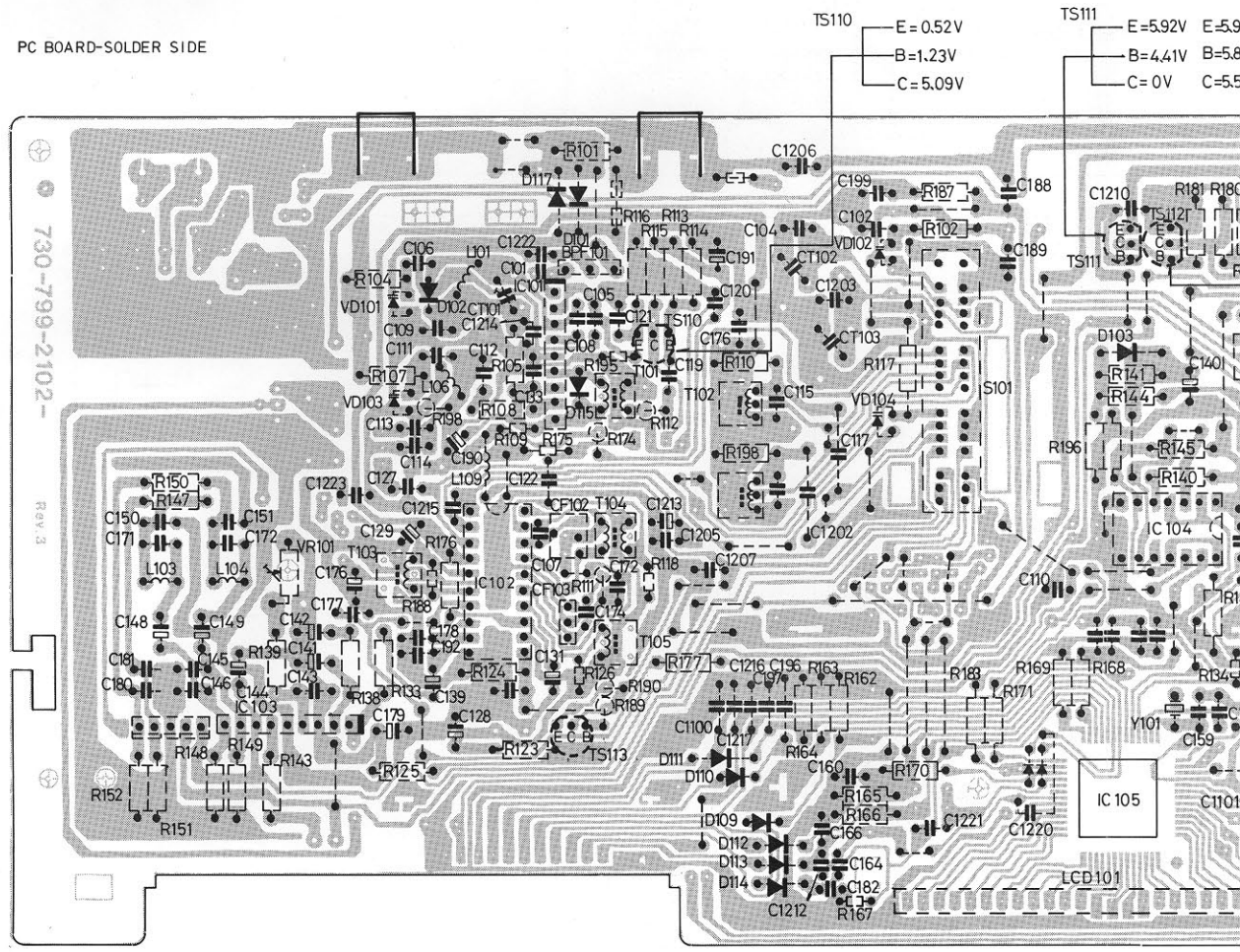


Diagram



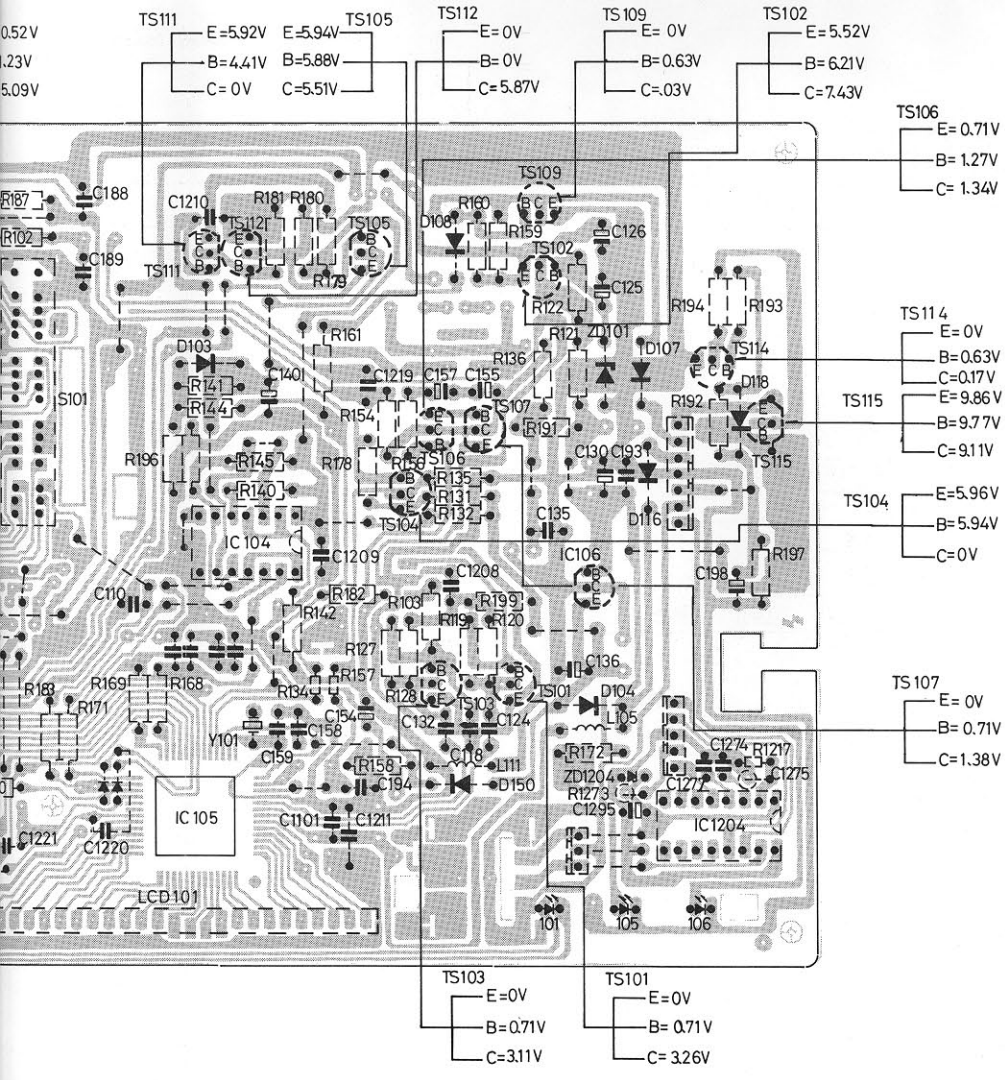
- CARBON RESISTOR, 1/4W, 5%
 - CARBON RESISTOR, 1/8W, 5%
 - PLATE CERAMIC CAPACITOR
 - ELECTROLYTIC CAPACITOR
 - MYLAR CAPACITOR
- × d = 10V
 e = 16V
 f = 25V
 g = 50V
- E.V.M.

PC BOARD-SOLDER SIDE



| IC | | 1 | 2 | |
|-----|----|--------|-------|----|
| 102 | AM | 5.23V | 1.64V | 1. |
| | FM | 5.06V | 1.64V | 1. |
| 101 | AM | .01V | .01V | 0. |
| | FM | 0.6V | 1.32V | 4. |
| 106 | AM | 10.34V | 0V | 5. |
| | FM | 10.11V | 0V | 5. |
| 103 | AM | 0.63V | 4.78V | 5. |
| | FM | 0.63V | 4.68V | 5. |
| 104 | | 0.88V | 0.88V | 0. |
| 601 | | 2.14V | 2.16V | 1. |

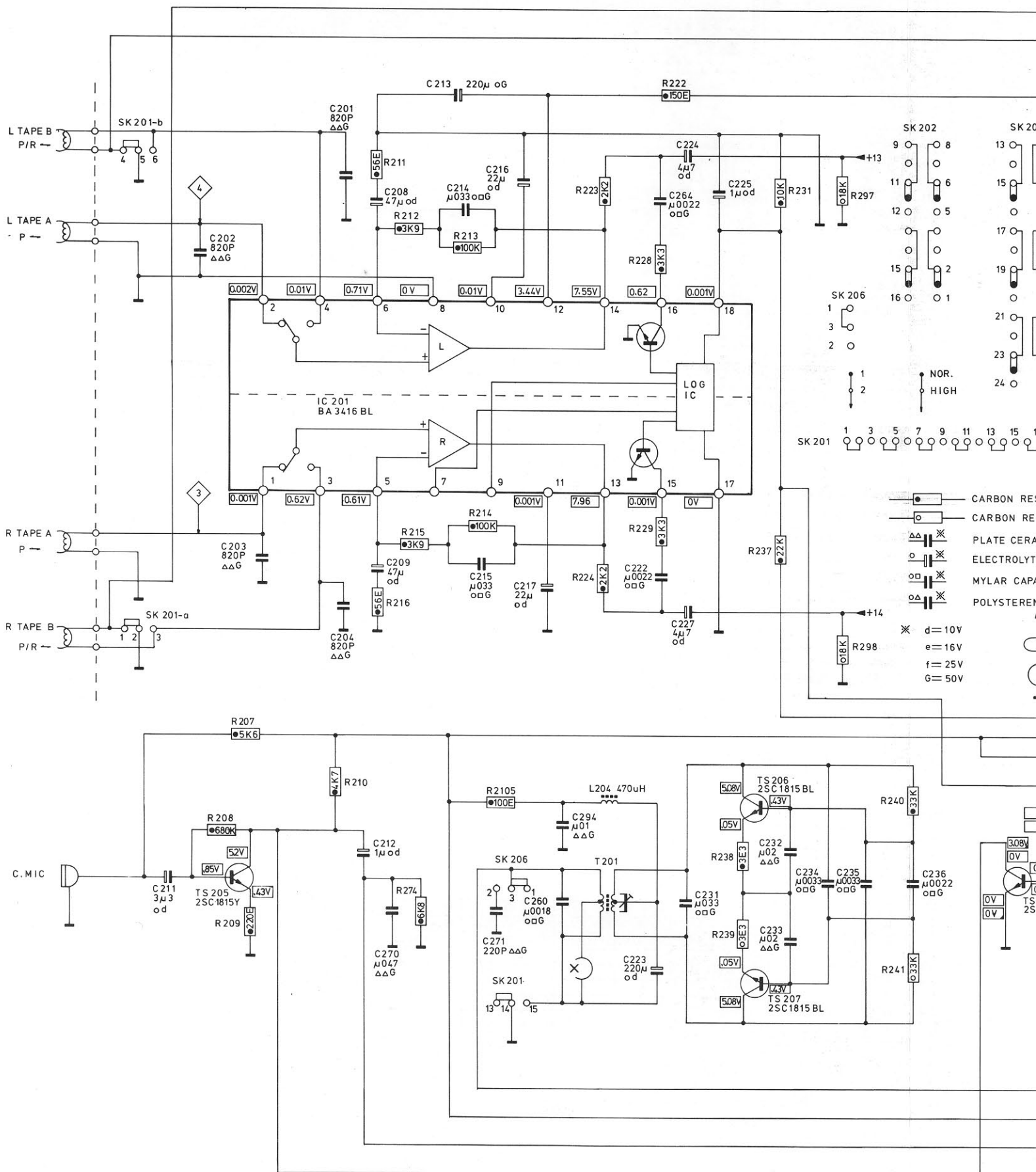
NOTE: VALUES INDICATED



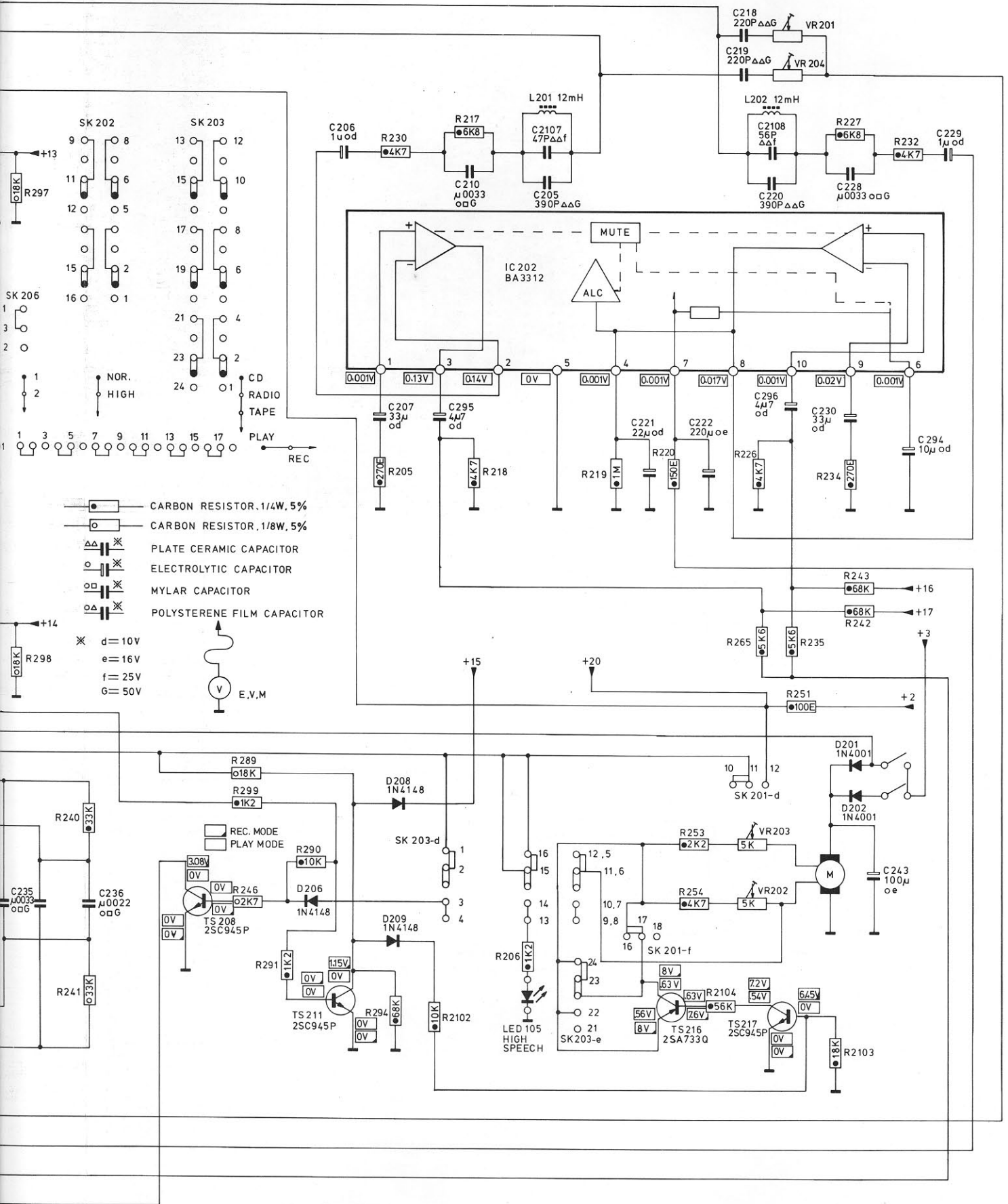
| IC | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-----|----|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| 102 | AM | 5.23V | 1.64V | 1.64V | 1.81V | 1.65V | 1.64V | 5.23V | 2.32V | 5.23V | .02V | .01V | 1.65V | 0.4V | 5.32V | 1.13V | 1.13V | 2.36V | 2.36V | 1.64V | 1.64V |
| | FM | 5.06V | 1.64V | 1.81V | 1.29V | 1.38V | 1.39V | 5.06V | 2.59V | 5.06V | 0.37V | .01V | 1.57V | 0V | 5.4V | 1.05V | 1.05V | 2.36V | 1.37V | 1.64V | 1.64V |
| 101 | AM | .01V | .01V | .02V | .01V | .01V | .02V | — | .02V | .02V | | | | | | | | | | | |
| | FM | 0.6V | 1.32V | 4.69V | 1.3V | 0.1V | 4.9V | — | 4.83V | 4.9V | | | | | | | | | | | |
| 106 | AM | 10.34V | 0V | 5.88V | | | | | | | | | | | | | | | | | |
| | FM | 10.11V | 0V | 5.88V | | | | | | | | | | | | | | | | | |
| 103 | AM | 0.63V | 4.78V | 5.48V | 4.98V | .01V | 4.9V | 5.48V | .96V | .96V | | | | | | | | | | | |
| | FM | 0.63V | 4.68V | 5.38V | 4.87V | .01V | 4.8V | 5.38V | .96V | .96V | | | | | | | | | | | |
| 104 | | 0.88V | 0.88V | 0.88V | 0.87V | 0V | 5.1V | 0V | 0V | 0V | 3.9V | 3.9V | 5V | 3.9V | | | | | | | |
| 601 | | 2.14V | 2.16V | 1.52V | 0V | 1.43V | 0.96V | 3.99V | 4.73V | | | | | | | | | | | | |

NOTE: VALUES INDICATED IN ARE DC VOLTAGES BETWEEN THE CHASSIS GROUND AND THE ELECTRICAL PARTS.

CASSETTE CIRCUIT



Schematic Diagram



- CARBON RESISTOR, 1/4W, 5%
- CARBON RESISTOR, 1/8W, 5%
- PLATE CERAMIC CAPACITOR
- ELECTROLYTIC CAPACITOR
- MYLAR CAPACITOR
- POLYESTERENE FILM CAPACITOR

- * d = 10V
- e = 16V
- f = 25V
- G = 50V



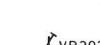
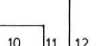
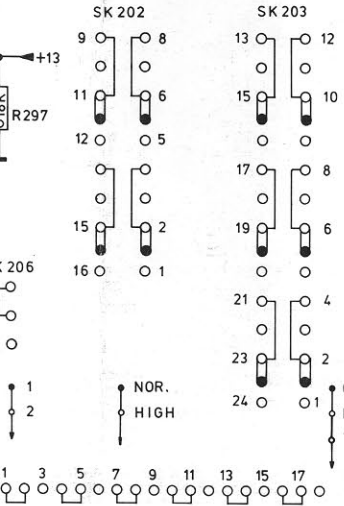
REC. MODE
PLAY MODE

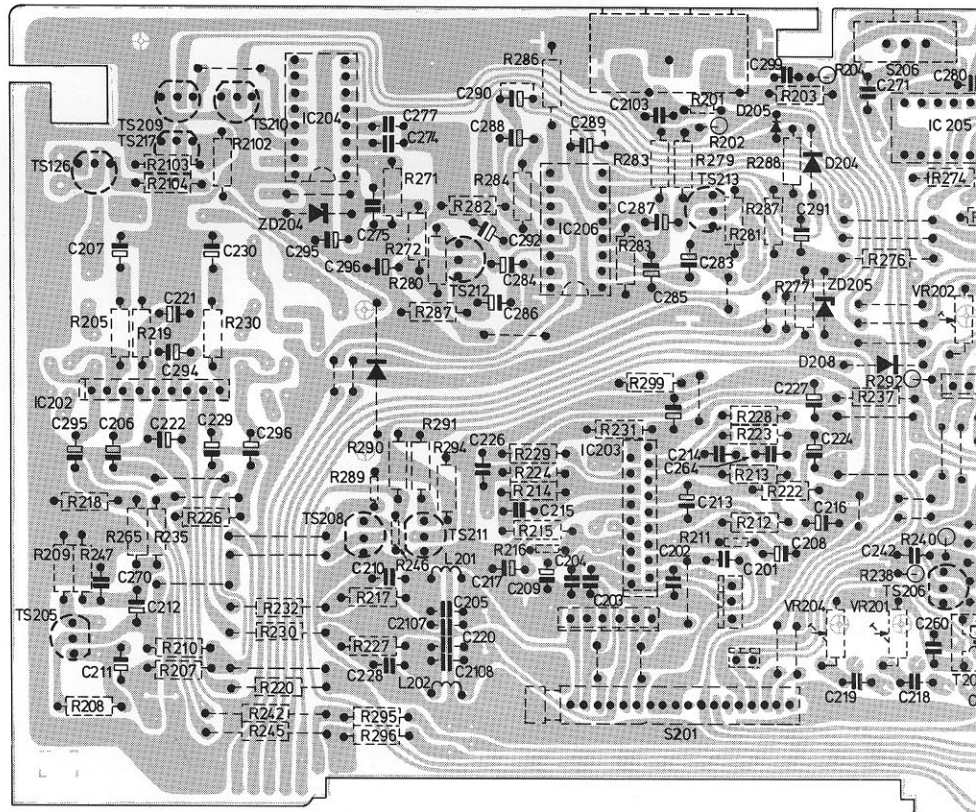
LED 105
HIGH
SPEECH

TS 216
2SA733Q

TS 211
2SC945P

TS 208
2SC945P





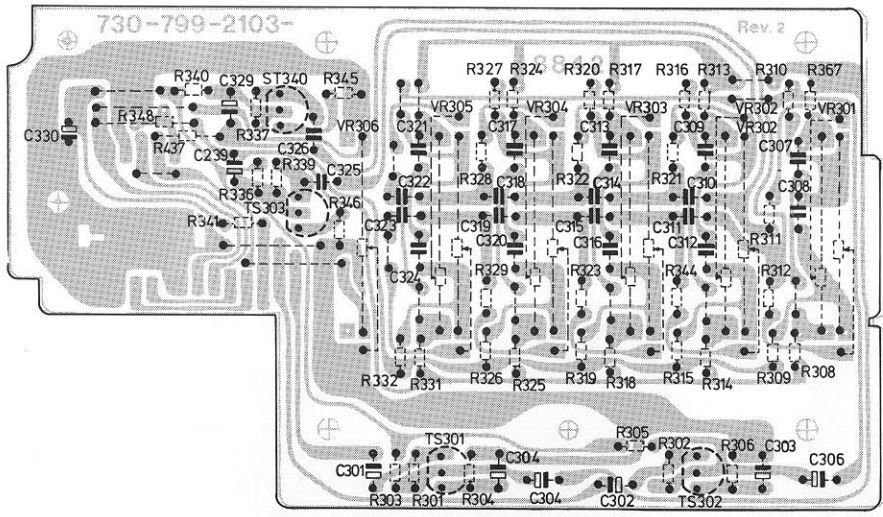
IC VOLTAGE.

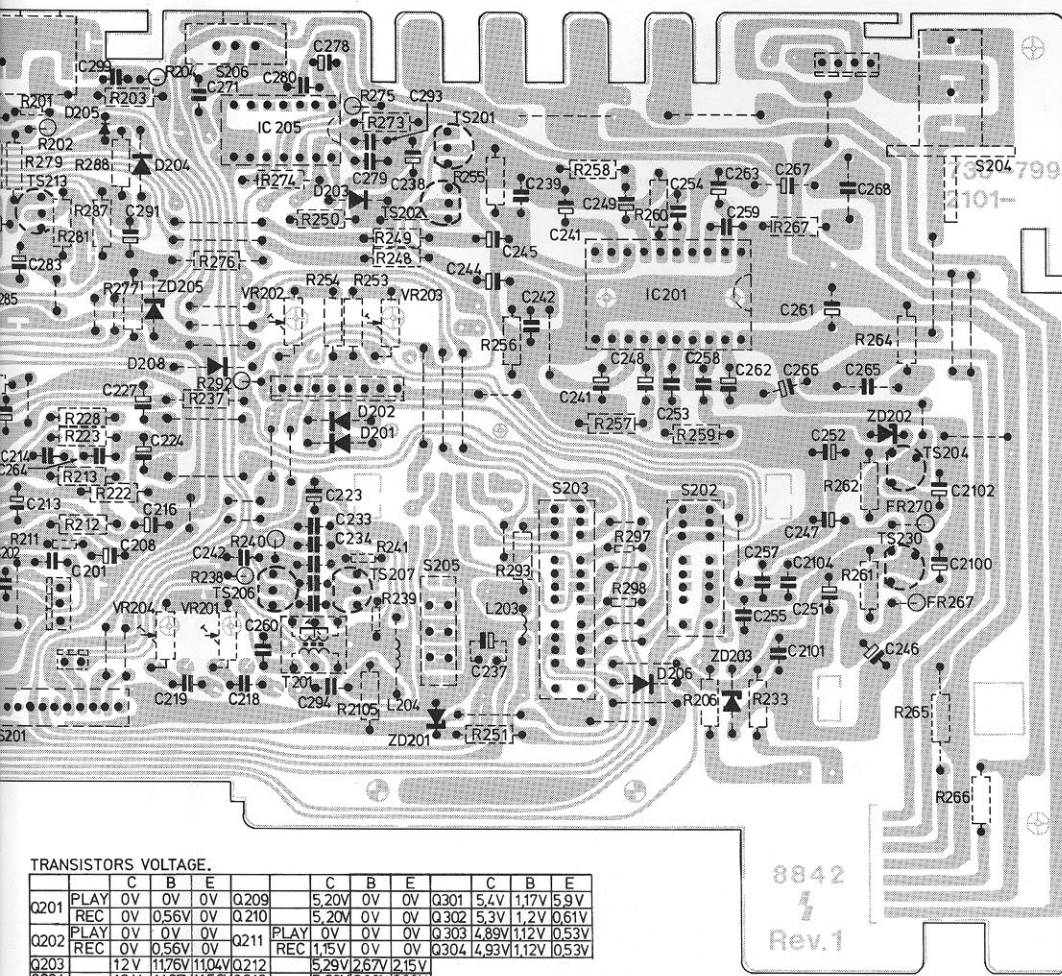
| PIN | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| IC203 | 0V | 0V | 0.62V | 0.01V | 0.06V | 0.07V | - | 0V | - | 0.01V | 0V | 3.44V | 7.96V | 7.55V | 0V | 0.62V | 0V | 0V | | |
| IC202 | 0V | 0.14V | 0.13V | 0V | 0V | 0V | 0V | 0.02V | 0.02V | 0V | - | 0.96V | 0.01V | 1.27V | 0.11V | 0V | 6.12V | 0.61V | 1.17V | 0V |
| IC204 | 0V | 0.12V | 0V | 0V | 0V | 0V | 0V | 0V | 0V | 0V | 0V | 0V | 5V | 5V | 2.57V | 5V | | | | |
| IC205 | 0V | 5.37V | 0V | 0V | 5.37V | 0V | 0V | - | - | - | - | - | - | 5.37V | - | - | - | - | - | - |
| IC206 | 0V | 0V | 0V | 0V | 0V | 0V | 5.37V | 0.1V | 5.31V | 5.35V | 0V | 0V | 0V | 0V | 0V | 5.36V | | | | |
| IC501 | - | 2.94V | 2.95V | 0V | 0V | - | - | - | - | 2.95V | 2.95V | 2.95V | 2.93V | 2.93V | 2.95V | 2.95V | | | | |
| IC601 | 2.14V | 2.16V | 1.52V | 0V | 1.43V | 0.96V | 3.99V | 4.73V | | | | | | | | | | | | |

TRANSISTORS VOLTAGE.

| | | C | B | E | |
|------|------|-------|--------|--------|------|
| Q201 | PLAY | 0V | 0V | 0V | Q209 |
| | REC | 0V | 0.56V | 0V | Q210 |
| Q202 | PLAY | 0V | 0V | 0V | Q211 |
| | REC | 0V | 0.56V | 0V | Q212 |
| Q203 | | 12V | 11.76V | 11.04V | Q213 |
| Q204 | | 12V | 11.97V | 11.56V | Q214 |
| Q205 | | 5.2V | 0.85V | 0.43V | Q215 |
| Q206 | | 5.08V | 0.43V | 0.05V | Q216 |
| Q207 | | 5.08V | 0.43V | 0.05V | Q217 |
| Q208 | PLAY | 0V | 0V | 0V | |
| | REC | 3.08V | 0V | 0V | |

NOTE: Values indicated in □ are D



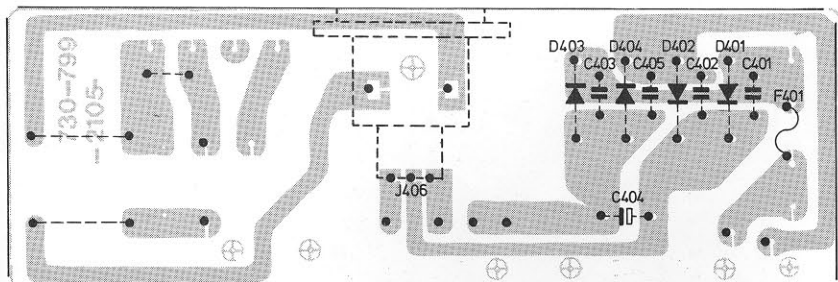


8842
Rev.1

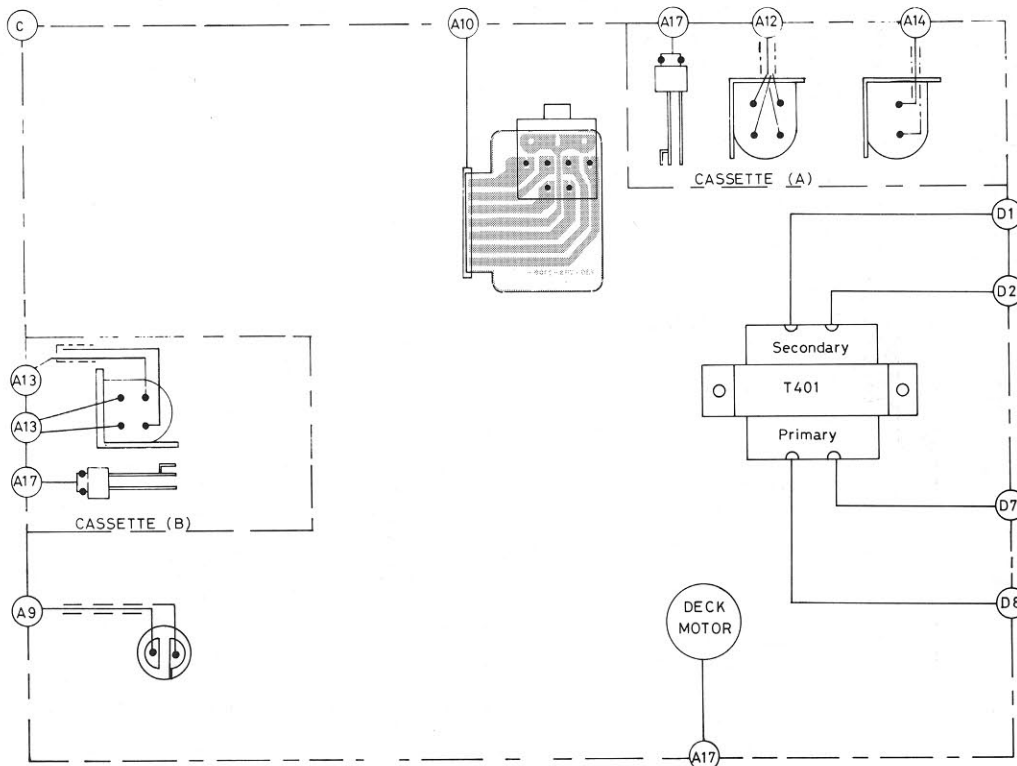
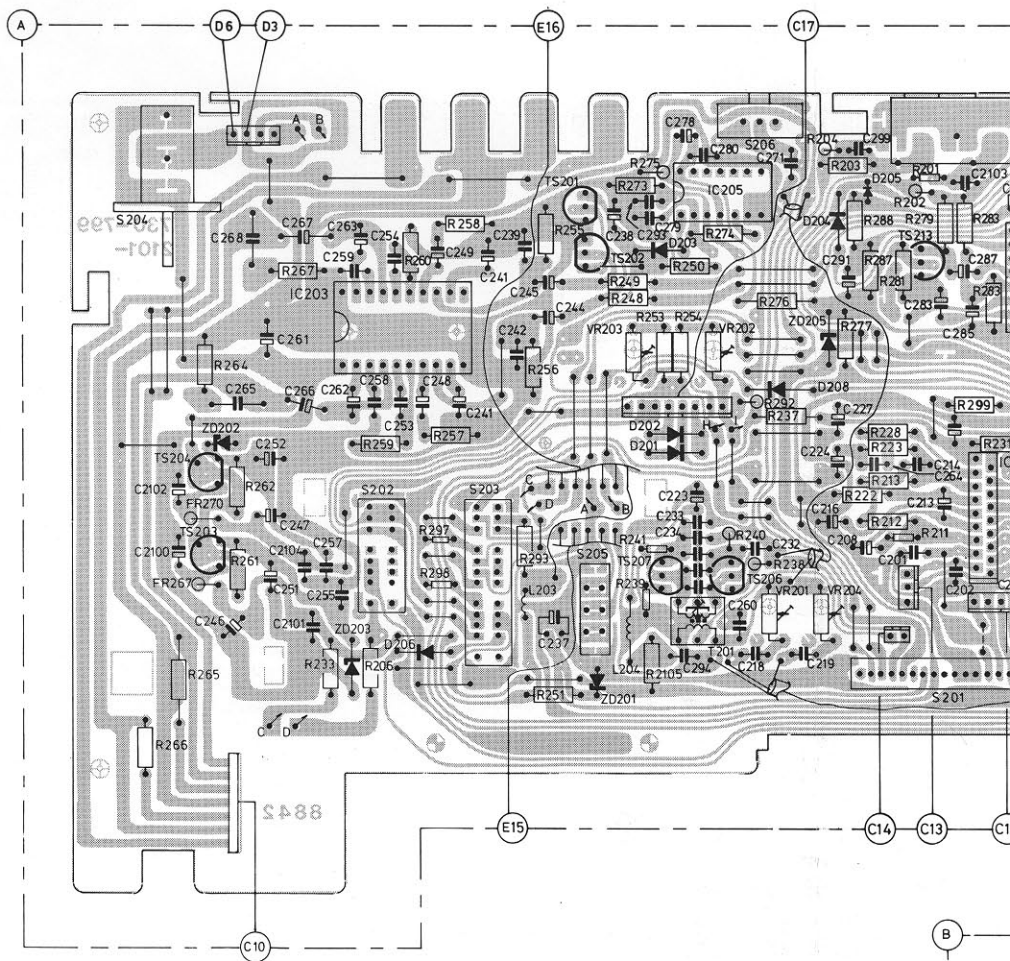
TRANSISTORS VOLTAGE.

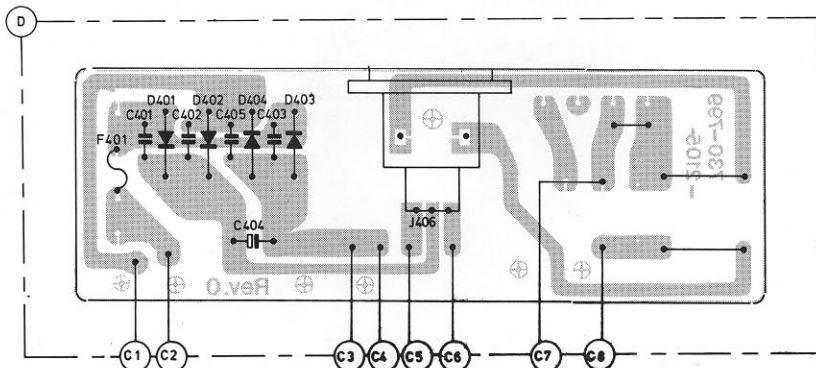
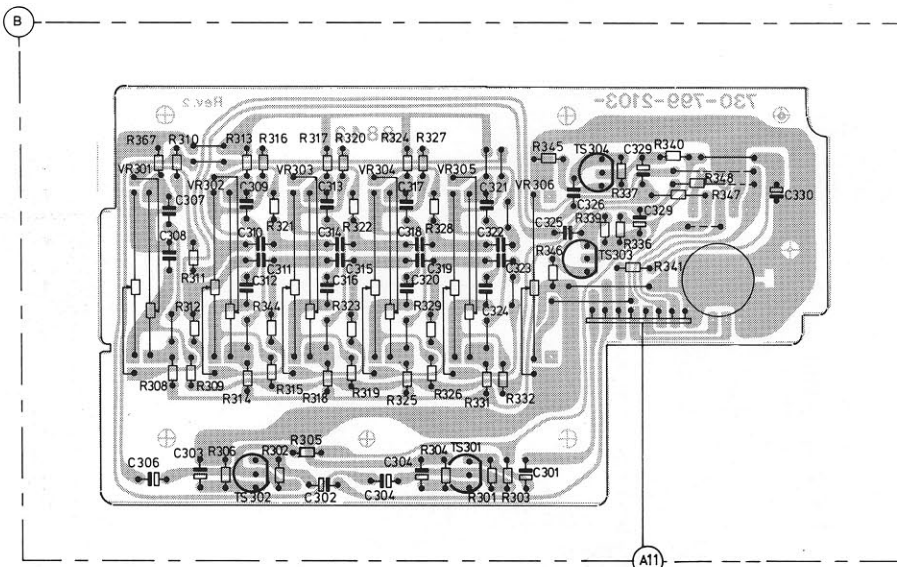
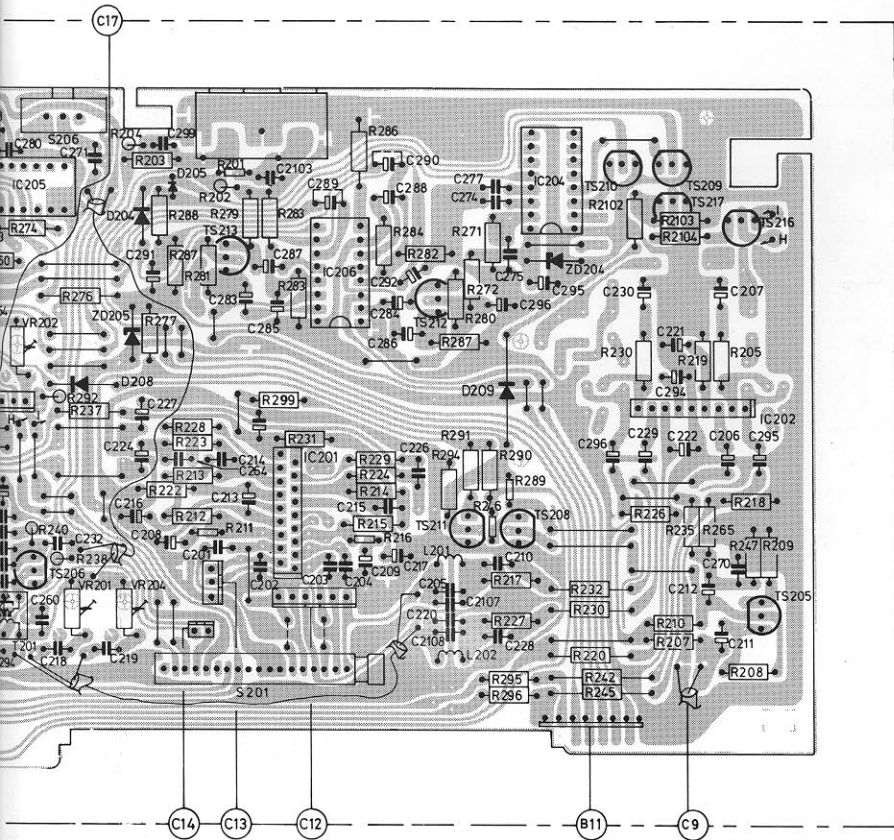
| Q201 | | | Q209 | | | Q301 | | | | |
|------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| | C | B | E | C | B | E | C | B | E | |
| PLAY | 0V | 0V | 0V | 5.20V | 0V | 0V | 5.4V | 1.17V | 5.9V | |
| REC | 0V | 0.56V | 0V | 5.20V | 0V | 0V | Q302 | 5.3V | 1.2V | 0.61V |
| Q202 | | | Q211 | | | Q303 | | | | |
| PLAY | 0V | 0V | 0V | 0V | 0V | 0V | 4.89V | 1.12V | 0.53V | |
| REC | 0V | 0.56V | 0V | 1.15V | 0V | 0V | Q304 | 4.93V | 1.12V | 0.53V |
| Q203 | 12V | 11.76V | 11.04V | Q212 | 5.29V | 2.57V | 2.15V | | | |
| Q204 | 12V | 11.97V | 11.56V | Q213 | 5.29V | 2.80V | 2.30V | | | |
| Q205 | 5.2V | 0.85V | 0.43V | Q216 | PLAY | 0.63V | 0.63V | 0.56V | | |
| Q206 | 5.08V | 0.43V | 0.05V | REC | 8V | 7.6V | 8V | | | |
| Q207 | 5.08V | 0.43V | 0.05V | Q217 | PLAY | 0.54V | 0V | 0V | | |
| Q208 | PLAY | 0V | 0V | REC | 7.2V | 6.45V | 0V | | | |
| | REC | 3.08V | 0V | 0V | | | | | | |

NOTE: Values indicated in □ are DC Voltage between the chassis ground and the electrical parts.

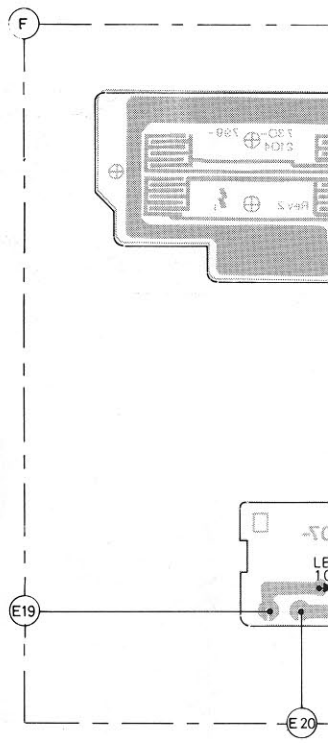
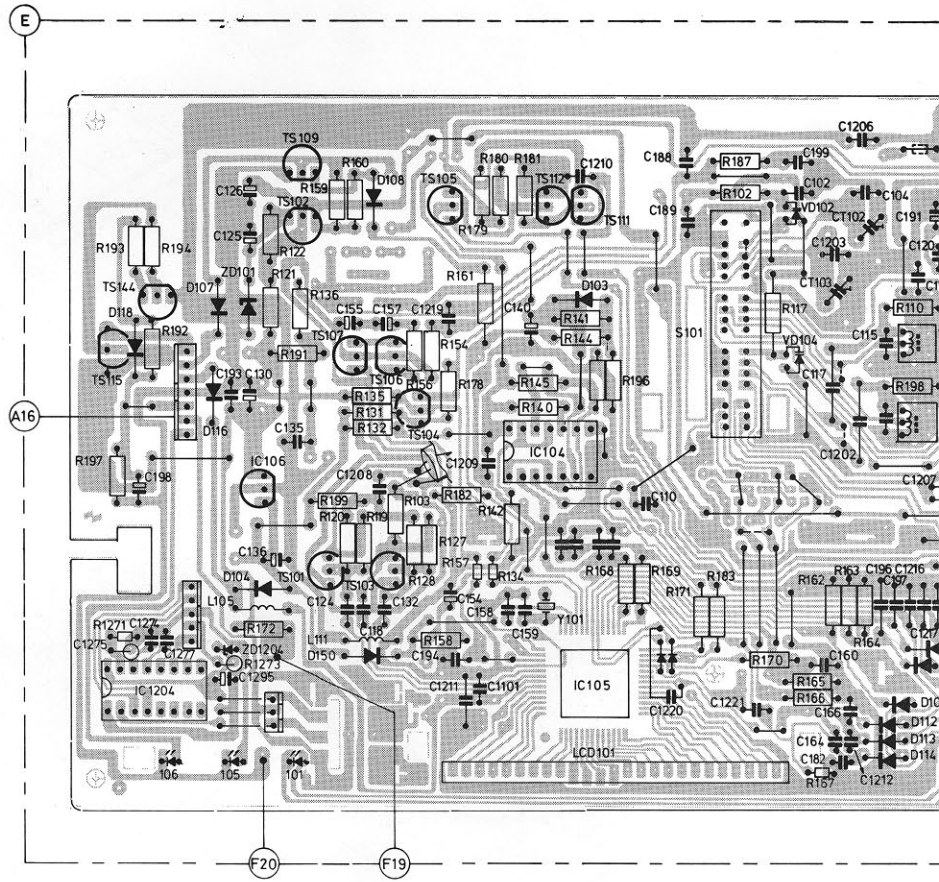


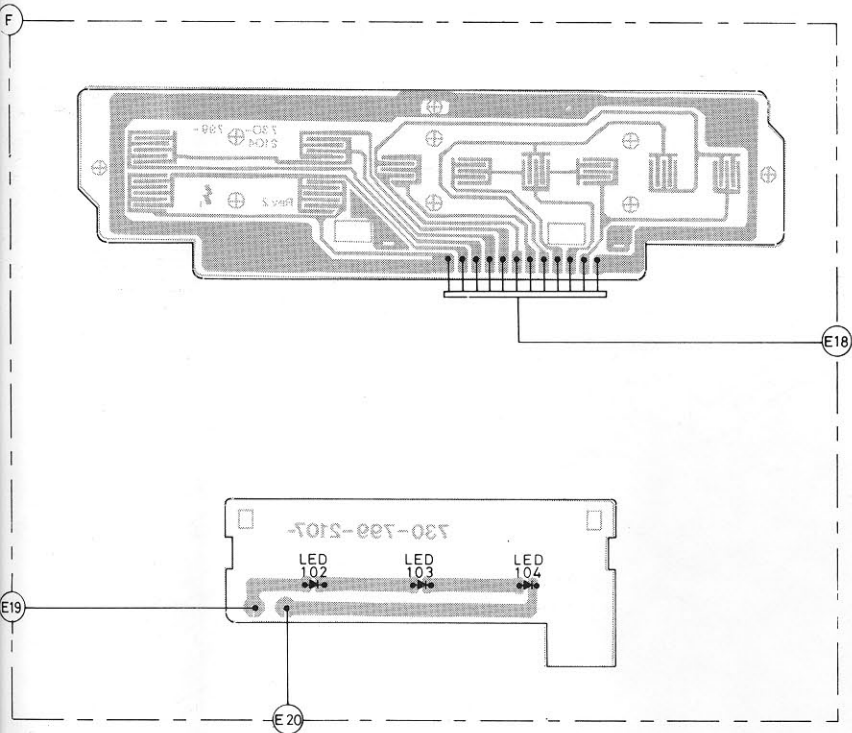
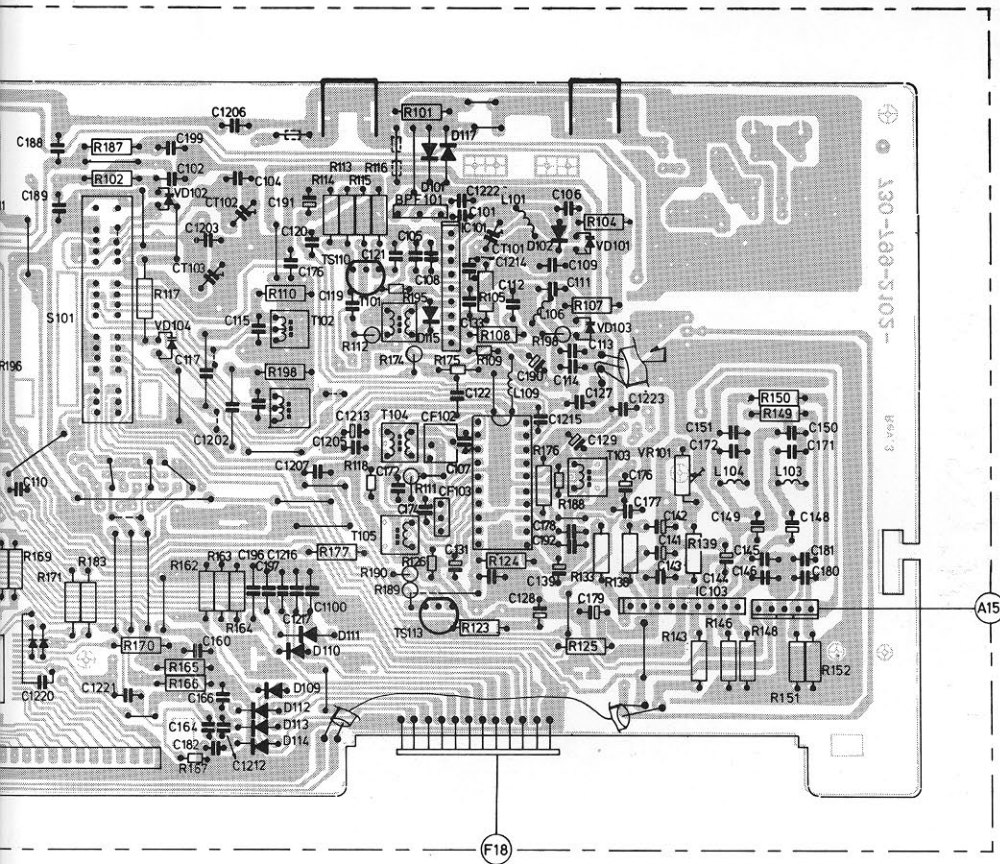
Wiring Diagram





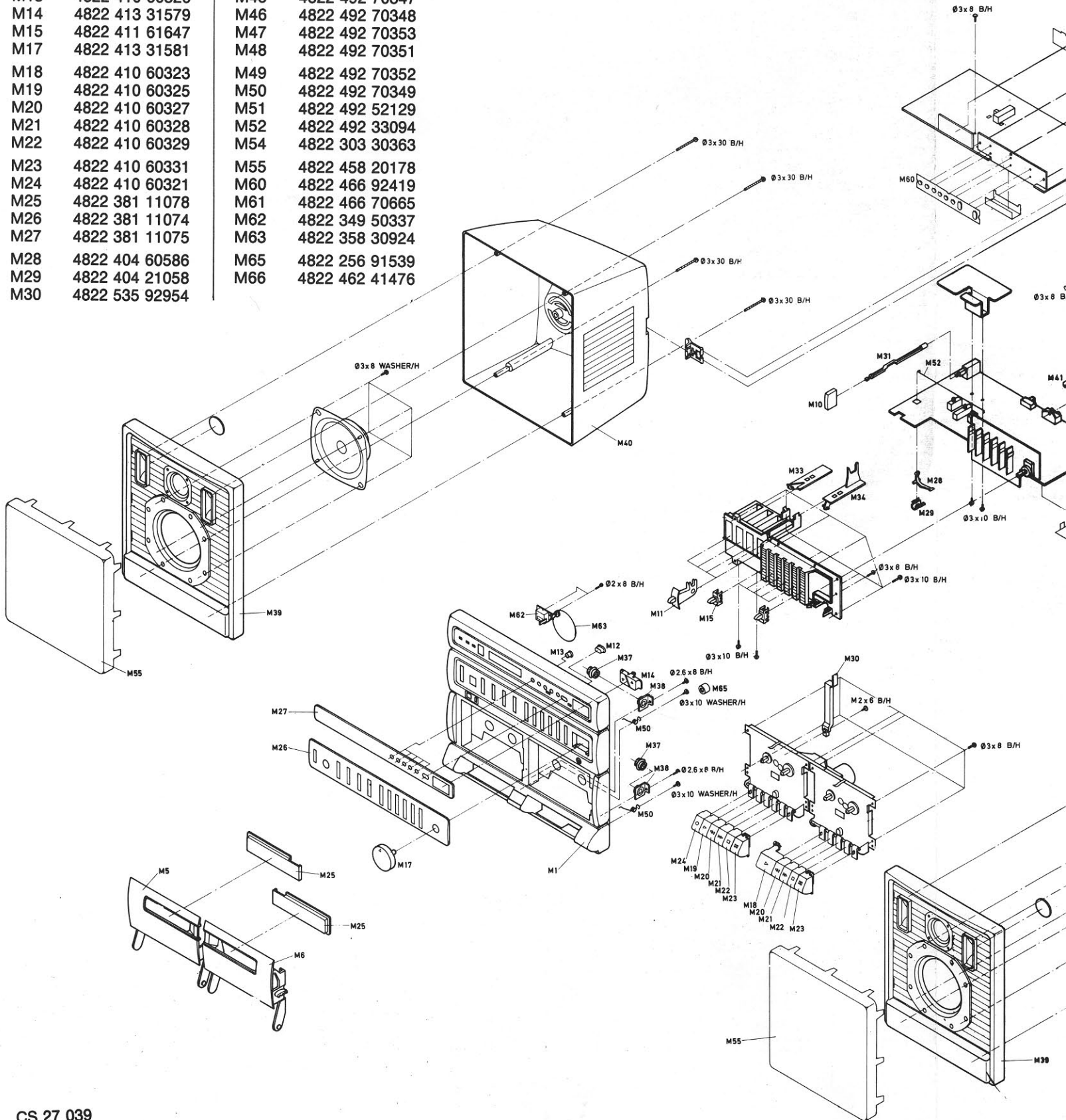
Wiring Diagram

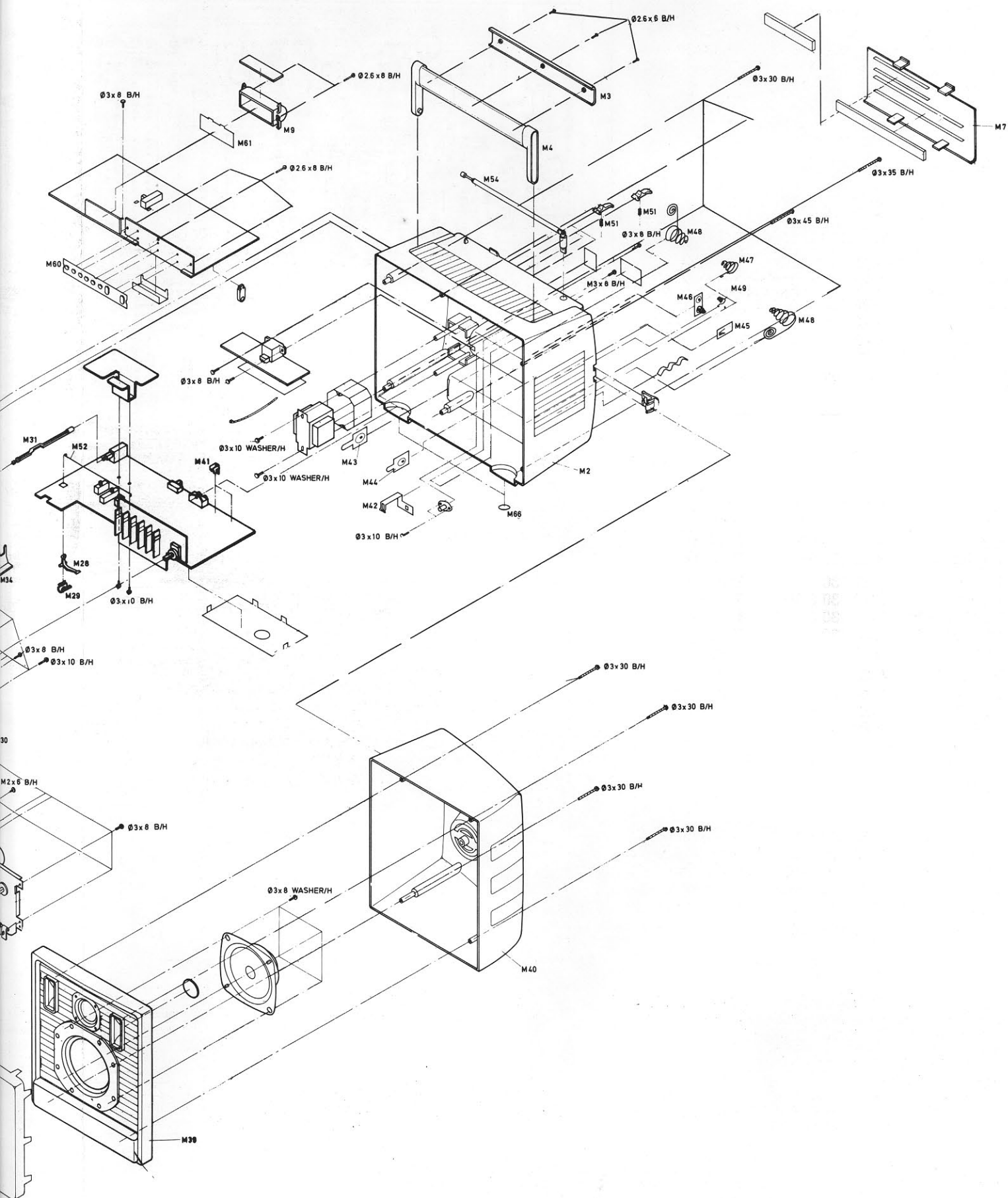










Mechanical Parts

| | | | |
|-----|----------------|-----|----------------|
| M1 | 4822 426 51381 | M31 | 4822 535 92953 |
| M2 | 4822 426 10035 | M33 | 4822 404 21056 |
| M3 | 4822 426 60572 | M34 | 4822 404 21057 |
| M4 | 4822 498 40567 | M37 | 4822 522 32793 |
| M5 | 4822 443 62853 | M38 | 4822 256 91538 |
| M6 | 4822 443 62852 | M39 | 4822 426 51379 |
| M7 | 4822 443 62851 | M40 | 4822 426 60571 |
| M9 | 4822 404 21055 | M41 | 4822 303 70086 |
| M10 | 4822 410 60322 | M42 | 4822 290 80894 |
| M11 | 4822 411 50578 | M43 | 4822 290 80893 |
| M12 | 4822 410 60324 | M44 | 4822 290 80892 |
| M13 | 4822 410 60326 | M45 | 4822 492 70347 |
| M14 | 4822 413 31579 | M46 | 4822 492 70348 |
| M15 | 4822 411 61647 | M47 | 4822 492 70353 |
| M17 | 4822 413 31581 | M48 | 4822 492 70351 |
| M18 | 4822 410 60323 | M49 | 4822 492 70352 |
| M19 | 4822 410 60325 | M50 | 4822 492 70349 |
| M20 | 4822 410 60327 | M51 | 4822 492 52129 |
| M21 | 4822 410 60328 | M52 | 4822 492 33094 |
| M22 | 4822 410 60329 | M54 | 4822 303 30363 |
| M23 | 4822 410 60331 | M55 | 4822 458 20178 |
| M24 | 4822 410 60321 | M60 | 4822 466 92419 |
| M25 | 4822 381 11078 | M61 | 4822 466 70665 |
| M26 | 4822 381 11074 | M62 | 4822 349 50337 |
| M27 | 4822 381 11075 | M63 | 4822 358 30924 |
| M28 | 4822 404 60586 | M65 | 4822 256 91539 |
| M29 | 4822 404 21058 | M66 | 4822 462 41476 |
| M30 | 4822 535 92954 | | |





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|---|----------------|-----------------------|-----------------|-----------|----------------|-----------------|--------------|----------------|----------------|-----------|----------------|------------------|----------|----------------|-----------------|--------|----------------|----------------|--------|----------------|---------|------------|----------------|-------------|--------------|----------------|----------|--|----------------|----------------|---|----------------|----------------|--------------|----------------|----------------|-------------|----------------|----------------|--------------|----------------|----------------|---|--------|----------------|-------------------|-----------|----------------|--------------------|----------|----------------|-------------------|------|----------------|----------------|------|----------------|-------------|------|----------------|--------------------|------|----------------|------------------|------|----------------|-------------|------|----------------|-------------|------|----------------|---------------|------|----------------|-----------------------|---------|----------------|-----------------------|
|  <table border="0"> <tr><td>U201</td><td>4822 209 71951</td><td>BA3416BL</td></tr> <tr><td>U202</td><td>4822 209 61512</td><td>BA3312</td></tr> <tr><td>U203</td><td>4822 209 61513</td><td>LA4505</td></tr> <tr><td>U101</td><td>4822 209 72753</td><td>TA7358P</td></tr> <tr><td>U102</td><td>4822 209 61514</td><td>TA7758P</td></tr> <tr><td>U103</td><td>4822 209 81659</td><td>TA7342P</td></tr> <tr><td>U104</td><td>4822 209 61515</td><td>CD4066</td></tr> <tr><td>U105</td><td>4822 209 61511</td><td>UPD1708-020</td></tr> <tr><td>U106</td><td>4822 209 60528</td><td>78L06</td></tr> </table> | U201 | 4822 209 71951 | BA3416BL | U202 | 4822 209 61512 | BA3312 | U203 | 4822 209 61513 | LA4505 | U101 | 4822 209 72753 | TA7358P | U102 | 4822 209 61514 | TA7758P | U103 | 4822 209 81659 | TA7342P | U104 | 4822 209 61515 | CD4066 | U105 | 4822 209 61511 | UPD1708-020 | U106 | 4822 209 60528 | 78L06 |  <table border="0"> <tr><td>L102</td><td>4822 156 11133</td><td>MW-ANT coil</td></tr> <tr><td>L103,104</td><td>4822 157 60358</td><td>choke 39mH</td></tr> <tr><td>L105,111</td><td>4822 157 60356</td><td>choke 1.5μH</td></tr> <tr><td>L108</td><td>4822 158 60599</td><td>LW-ANT coil</td></tr> <tr><td>L109</td><td>4822 157 60361</td><td>choke 22μH</td></tr> <tr><td>L110</td><td>4822 157 60357</td><td>choke 470μH</td></tr> <tr><td>L201,202</td><td>4822 157 60359</td><td>choke 12μH</td></tr> <tr><td>L203-205</td><td>4822 157 60357</td><td>choke 470μH</td></tr> <tr><td>T101</td><td>4822 157 60355</td><td>FM-OSC coil</td></tr> <tr><td>T102</td><td>4822 157 60349</td><td>MW-OSC coil</td></tr> <tr><td>T103</td><td>4822 157 60352</td><td>AM-IF</td></tr> <tr><td>T104</td><td>4822 157 60351</td><td>AM-IF</td></tr> <tr><td>T105</td><td>4822 157 60354</td><td>FM-IF</td></tr> <tr><td>T106</td><td>4822 156 11132</td><td>LW OSC coil</td></tr> <tr><td>T201</td><td>4822 157 60353</td><td>IF-coil</td></tr> <tr><td>T401</td><td>4822 146 21451</td><td>Mainstransformer 220V</td></tr> <tr><td>T401/05</td><td>4822 146 21484</td><td>Mainstransformer 240V</td></tr> </table> | L102 | 4822 156 11133 | MW-ANT coil | L103,104 | 4822 157 60358 | choke 39mH | L105,111 | 4822 157 60356 | choke 1.5μH | L108 | 4822 158 60599 | LW-ANT coil | L109 | 4822 157 60361 | choke 22μH | L110 | 4822 157 60357 | choke 470μH | L201,202 | 4822 157 60359 | choke 12μH | L203-205 | 4822 157 60357 | choke 470μH | T101 | 4822 157 60355 | FM-OSC coil | T102 | 4822 157 60349 | MW-OSC coil | T103 | 4822 157 60352 | AM-IF | T104 | 4822 157 60351 | AM-IF | T105 | 4822 157 60354 | FM-IF | T106 | 4822 156 11132 | LW OSC coil | T201 | 4822 157 60353 | IF-coil | T401 | 4822 146 21451 | Mainstransformer 220V | T401/05 | 4822 146 21484 | Mainstransformer 240V |
| U201 | 4822 209 71951 | BA3416BL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U202 | 4822 209 61512 | BA3312 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U203 | 4822 209 61513 | LA4505 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U101 | 4822 209 72753 | TA7358P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U102 | 4822 209 61514 | TA7758P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U103 | 4822 209 81659 | TA7342P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U104 | 4822 209 61515 | CD4066 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U105 | 4822 209 61511 | UPD1708-020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U106 | 4822 209 60528 | 78L06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L102 | 4822 156 11133 | MW-ANT coil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L103,104 | 4822 157 60358 | choke 39mH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L105,111 | 4822 157 60356 | choke 1.5μH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L108 | 4822 158 60599 | LW-ANT coil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L109 | 4822 157 60361 | choke 22μH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L110 | 4822 157 60357 | choke 470μH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L201,202 | 4822 157 60359 | choke 12μH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L203-205 | 4822 157 60357 | choke 470μH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T101 | 4822 157 60355 | FM-OSC coil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T102 | 4822 157 60349 | MW-OSC coil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T103 | 4822 157 60352 | AM-IF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T104 | 4822 157 60351 | AM-IF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T105 | 4822 157 60354 | FM-IF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T106 | 4822 156 11132 | LW OSC coil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T201 | 4822 157 60353 | IF-coil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T401 | 4822 146 21451 | Mainstransformer 220V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T401/05 | 4822 146 21484 | Mainstransformer 240V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="0"> <tr><td>Q101,103</td><td>4822 130 61748</td><td>2SC2668</td></tr> <tr><td>Q102</td><td>4822 130 42286</td><td>2SC1959Y</td></tr> <tr><td>Q104,111,216</td><td>4822 130 41732</td><td>2SA7339</td></tr> <tr><td>Q105 etc.</td><td>4822 130 41198</td><td>2SC945P</td></tr> <tr><td>Q106,107</td><td>4822 130 62837</td><td>2SC245B</td></tr> <tr><td>Q110</td><td>4822 130 60166</td><td>2SC19230</td></tr> <tr><td>Q115</td><td>4822 130 61838</td><td>JE8550D</td></tr> <tr><td>Q203,204</td><td>4822 130 61836</td><td>2SC120Y</td></tr> <tr><td>Q205,301-304</td><td>4822 130 41947</td><td>2SC1815Y</td></tr> <tr><td>Q206,207</td><td>4822 130 41319</td><td>2SC1815BL</td></tr> </table> | Q101,103 | 4822 130 61748 | 2SC2668 | Q102 | 4822 130 42286 | 2SC1959Y | Q104,111,216 | 4822 130 41732 | 2SA7339 | Q105 etc. | 4822 130 41198 | 2SC945P | Q106,107 | 4822 130 62837 | 2SC245B | Q110 | 4822 130 60166 | 2SC19230 | Q115 | 4822 130 61838 | JE8550D | Q203,204 | 4822 130 61836 | 2SC120Y | Q205,301-304 | 4822 130 41947 | 2SC1815Y | Q206,207 | 4822 130 41319 | 2SC1815BL |  <table border="0"> <tr><td>S101</td><td>4822 277 21342</td><td>slide switch</td></tr> <tr><td>S201</td><td>4822 276 12645</td><td>push switch</td></tr> <tr><td>S202</td><td>4822 277 21347</td><td>slide switch</td></tr> <tr><td>S203</td><td>4822 277 21349</td><td>slide switch</td></tr> <tr><td>S204</td><td>4822 276 12646</td><td>push switch</td></tr> <tr><td>S205</td><td>4822 277 21346</td><td>slide switch</td></tr> <tr><td>S206</td><td>4822 277 21345</td><td>slide switch</td></tr> </table> | S101 | 4822 277 21342 | slide switch | S201 | 4822 276 12645 | push switch | S202 | 4822 277 21347 | slide switch | S203 | 4822 277 21349 | slide switch | S204 | 4822 276 12646 | push switch | S205 | 4822 277 21346 | slide switch | S206 | 4822 277 21345 | slide switch | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q101,103 | 4822 130 61748 | 2SC2668 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q102 | 4822 130 42286 | 2SC1959Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q104,111,216 | 4822 130 41732 | 2SA7339 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q105 etc. | 4822 130 41198 | 2SC945P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q106,107 | 4822 130 62837 | 2SC245B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q110 | 4822 130 60166 | 2SC19230 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q115 | 4822 130 61838 | JE8550D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q203,204 | 4822 130 61836 | 2SC120Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q205,301-304 | 4822 130 41947 | 2SC1815Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q206,207 | 4822 130 41319 | 2SC1815BL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S101 | 4822 277 21342 | slide switch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S201 | 4822 276 12645 | push switch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S202 | 4822 277 21347 | slide switch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S203 | 4822 277 21349 | slide switch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S204 | 4822 276 12646 | push switch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S205 | 4822 277 21346 | slide switch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S206 | 4822 277 21345 | slide switch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="0"> <tr><td>D101 etc.</td><td>4822 130 30621</td><td>IN4148</td></tr> <tr><td>D101 etc.</td><td>4822 130 81524</td><td>ISS176</td></tr> <tr><td>D115</td><td>4822 130 80562</td><td>IN60</td></tr> <tr><td>D201,202</td><td>4822 130 31438</td><td>IN4001</td></tr> <tr><td>D401-404</td><td>5322 130 81527</td><td>IN4004</td></tr> <tr><td>LCD101</td><td>4822 130 90726</td><td>LC65205</td></tr> <tr><td>LED101</td><td>4822 130 32915</td><td>TLG208</td></tr> <tr><td>LED102-104</td><td>4822 130 81652</td><td>LTR234</td></tr> <tr><td>LED105,106</td><td>4822 130 31911</td><td>TLR208</td></tr> <tr><td>VD101,103</td><td>4822 130 81656</td><td>V101</td></tr> <tr><td>VD102,104</td><td>4822 130 81657</td><td>V149</td></tr> <tr><td>ZD101</td><td>4822 130 81653</td><td>ZENER 6,2V</td></tr> <tr><td>ZD201</td><td>4822 130 81654</td><td>ZENER 8,2V</td></tr> <tr><td>ZD202,203</td><td>4822 130 81655</td><td>ZENER 12V</td></tr> </table> | D101 etc. | 4822 130 30621 | IN4148 | D101 etc. | 4822 130 81524 | ISS176 | D115 | 4822 130 80562 | IN60 | D201,202 | 4822 130 31438 | IN4001 | D401-404 | 5322 130 81527 | IN4004 | LCD101 | 4822 130 90726 | LC65205 | LED101 | 4822 130 32915 | TLG208 | LED102-104 | 4822 130 81652 | LTR234 | LED105,106 | 4822 130 31911 | TLR208 | VD101,103 | 4822 130 81656 | V101 | VD102,104 | 4822 130 81657 | V149 | ZD101 | 4822 130 81653 | ZENER 6,2V | ZD201 | 4822 130 81654 | ZENER 8,2V | ZD202,203 | 4822 130 81655 | ZENER 12V | <p>Miscellaneous</p> <table border="0"> <tr><td>BPF101</td><td>4822 242 72889</td><td>cer.filter BPMM6A</td></tr> <tr><td>CF101,103</td><td>4822 242 72887</td><td>cer.filter 10.7MHz</td></tr> <tr><td>CF102</td><td>4822 242 72888</td><td>cer.filter 450kHz</td></tr> <tr><td>Y101</td><td>4822 242 72891</td><td>crystal 4.5MHz</td></tr> <tr><td>J406</td><td>4822 267 31116</td><td>AC socket</td></tr> <tr><td></td><td>4822 267 31115</td><td>antenna socket 75Ω</td></tr> <tr><td></td><td>4822 267 10234</td><td>headphone socket</td></tr> <tr><td></td><td>4822 267 10233</td><td>line socket</td></tr> <tr><td></td><td>4822 242 30198</td><td>microphone</td></tr> <tr><td></td><td>4822 240 90093</td><td>loudsp. piezo</td></tr> <tr><td></td><td>4822 240 40178</td><td>loudsp. 5W, 5"</td></tr> <tr><td></td><td>4822 526 10463</td><td>antenna bar</td></tr> </table> | BPF101 | 4822 242 72889 | cer.filter BPMM6A | CF101,103 | 4822 242 72887 | cer.filter 10.7MHz | CF102 | 4822 242 72888 | cer.filter 450kHz | Y101 | 4822 242 72891 | crystal 4.5MHz | J406 | 4822 267 31116 | AC socket | | 4822 267 31115 | antenna socket 75Ω | | 4822 267 10234 | headphone socket | | 4822 267 10233 | line socket | | 4822 242 30198 | microphone | | 4822 240 90093 | loudsp. piezo | | 4822 240 40178 | loudsp. 5W, 5" | | 4822 526 10463 | antenna bar |
| D101 etc. | 4822 130 30621 | IN4148 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D101 etc. | 4822 130 81524 | ISS176 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D115 | 4822 130 80562 | IN60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D201,202 | 4822 130 31438 | IN4001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D401-404 | 5322 130 81527 | IN4004 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LCD101 | 4822 130 90726 | LC65205 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LED101 | 4822 130 32915 | TLG208 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LED102-104 | 4822 130 81652 | LTR234 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LED105,106 | 4822 130 31911 | TLR208 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VD101,103 | 4822 130 81656 | V101 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VD102,104 | 4822 130 81657 | V149 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZD101 | 4822 130 81653 | ZENER 6,2V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZD201 | 4822 130 81654 | ZENER 8,2V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZD202,203 | 4822 130 81655 | ZENER 12V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BPF101 | 4822 242 72889 | cer.filter BPMM6A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CF101,103 | 4822 242 72887 | cer.filter 10.7MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CF102 | 4822 242 72888 | cer.filter 450kHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Y101 | 4822 242 72891 | crystal 4.5MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J406 | 4822 267 31116 | AC socket | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4822 267 31115 | antenna socket 75Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4822 267 10234 | headphone socket | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4822 267 10233 | line socket | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4822 242 30198 | microphone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4822 240 90093 | loudsp. piezo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4822 240 40178 | loudsp. 5W, 5" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4822 526 10463 | antenna bar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="0"> <tr><td>VR101</td><td>4822 100 11551</td><td>trim. potm. 10K</td></tr> <tr><td>VR201,204</td><td>4822 100 11553</td><td>trim. potm. 50K</td></tr> <tr><td>VR202,203</td><td>4822 100 11552</td><td>trim. potm. 5K</td></tr> <tr><td>VR301-305</td><td>4822 105 11037</td><td>potm. slide 100K</td></tr> <tr><td>VR306</td><td>4822 105 11041</td><td>potm. slide 50K</td></tr> <tr><td>VR307</td><td>4822 102 10411</td><td>potm. vol. 50K</td></tr> </table> | VR101 | 4822 100 11551 | trim. potm. 10K | VR201,204 | 4822 100 11553 | trim. potm. 50K | VR202,203 | 4822 100 11552 | trim. potm. 5K | VR301-305 | 4822 105 11037 | potm. slide 100K | VR306 | 4822 105 11041 | potm. slide 50K | VR307 | 4822 102 10411 | potm. vol. 50K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VR101 | 4822 100 11551 | trim. potm. 10K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VR201,204 | 4822 100 11553 | trim. potm. 50K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VR202,203 | 4822 100 11552 | trim. potm. 5K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VR301-305 | 4822 105 11037 | potm. slide 100K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VR306 | 4822 105 11041 | potm. slide 50K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VR307 | 4822 102 10411 | potm. vol. 50K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

NL

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

F

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

D

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden für Reparaturen sind Original-Ersatzteile zu verwenden.

I

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati pezzi di ricambio identici a quelli specificati.

GB WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

F ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).

Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.

Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.

Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

ESD



D WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegen elektrostatische Entladungen (ESD).

Unsorgfältige Behandlung bei der Reparatur kann die Lebensdauer drastisch vermindern. Sorgen sie dafür, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand mit dem Massepotential des Gerätes verbunden sind. halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.

NL WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD).

Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.

Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

I AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).

La loro longevità potrebbe essere fortemente ridatta in caso di non osservazione della più grande cauzione alla loro manipolazione.

Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.

Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.