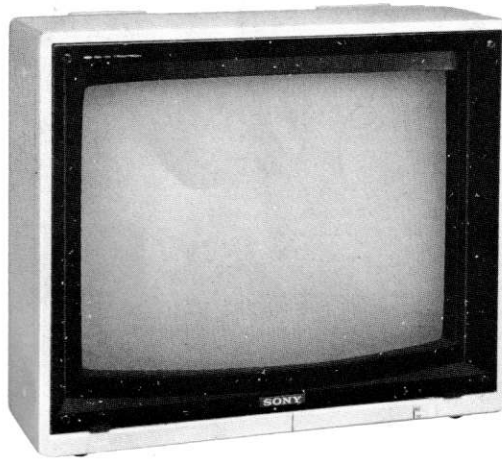


KX-27PS1

SERVICE MANUAL

AEP Model

Chassis No. SCC-405B-A



November, 1982

SPECIFICATIONS

| | | | |
|--------------------------|--|----------------------|---|
| Colour television system | CCIR-B, G, H, I/PAL B, D, G, K, L/SECAM M/NTSC, NTSC ^{4.43} | Input/output | AV INPUT/OUTPUT (6-pin DIN connector) |
| Picture tube | Approx. 68 cm, 114-degree deflection Trinitron tube (approx. 64 cm picture measured diagonally) | Power requirements | 200–240 V ac, 50/60 Hz |
| Inputs | VIDEO INPUT (BNC connector): 1 V p-p, 75 ohms, unbalanced, sync negative AUDIO INPUT (2 phono jacks): –5 dBs (436 mV rms), 47 kilohms CONTROL (minijack) MULTI INPUT (8-pin): Same as the above VIDEO, AUDIO INPUTs and CONTROL jack PERI-TV (21 pin) RGB MULTI INPUT (34-pin) | Power consumption | 220 W 5 W (in standby mode) |
| Output | SPEAKER: Accepts 8–16 ohm speakers 15W × 2 (8 ohms, with 10% harmonic distortion) 25W × 2 (maximum power) | Dimensions | Approx. 660 × 557 × 477 mm (w/h/d) (26 × 22 × 18 ⁷ / ₈ inches) |
| | | Weight | Approx. 55.2 kg (121 lbs 4 oz) |
| | | Accessories supplied | 75-ohm coaxial cable with BNC connectors (1.5m) Connecting cord RK-105A (miniplug to phono plugs, 1.5 m) Plug adaptor PC-5A (phono plug to minijack) Mains lead |

While the information given is true at the time of printing, small production changes in the course of our company's policy of improvement through research and design might not necessarily be indicated in the specifications. We would ask you to check with your appointed Sony dealer if clarification on any point is required.




TRINITRON® COLOR TV
SONY®

MON

WARNING !!

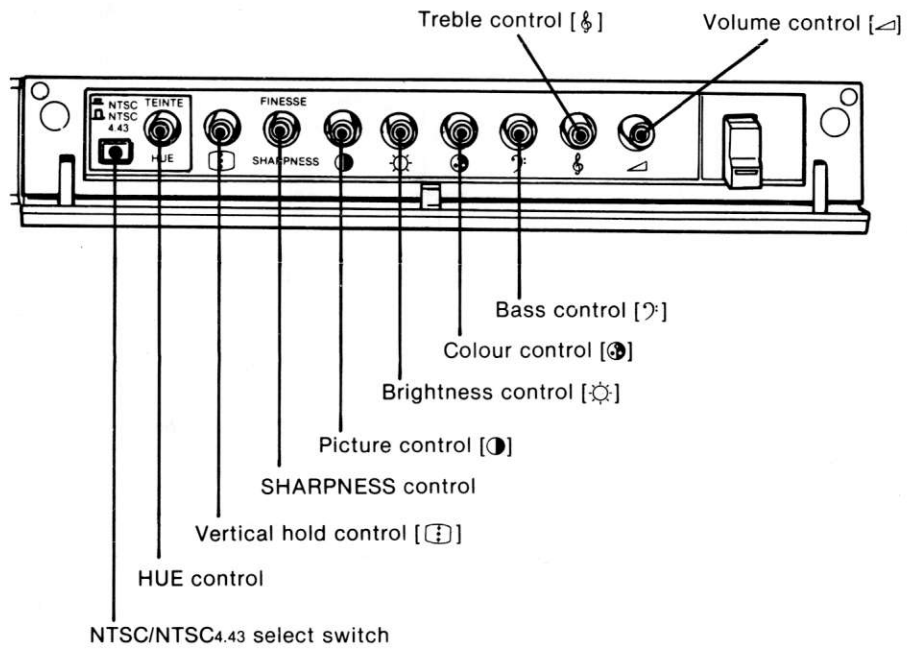
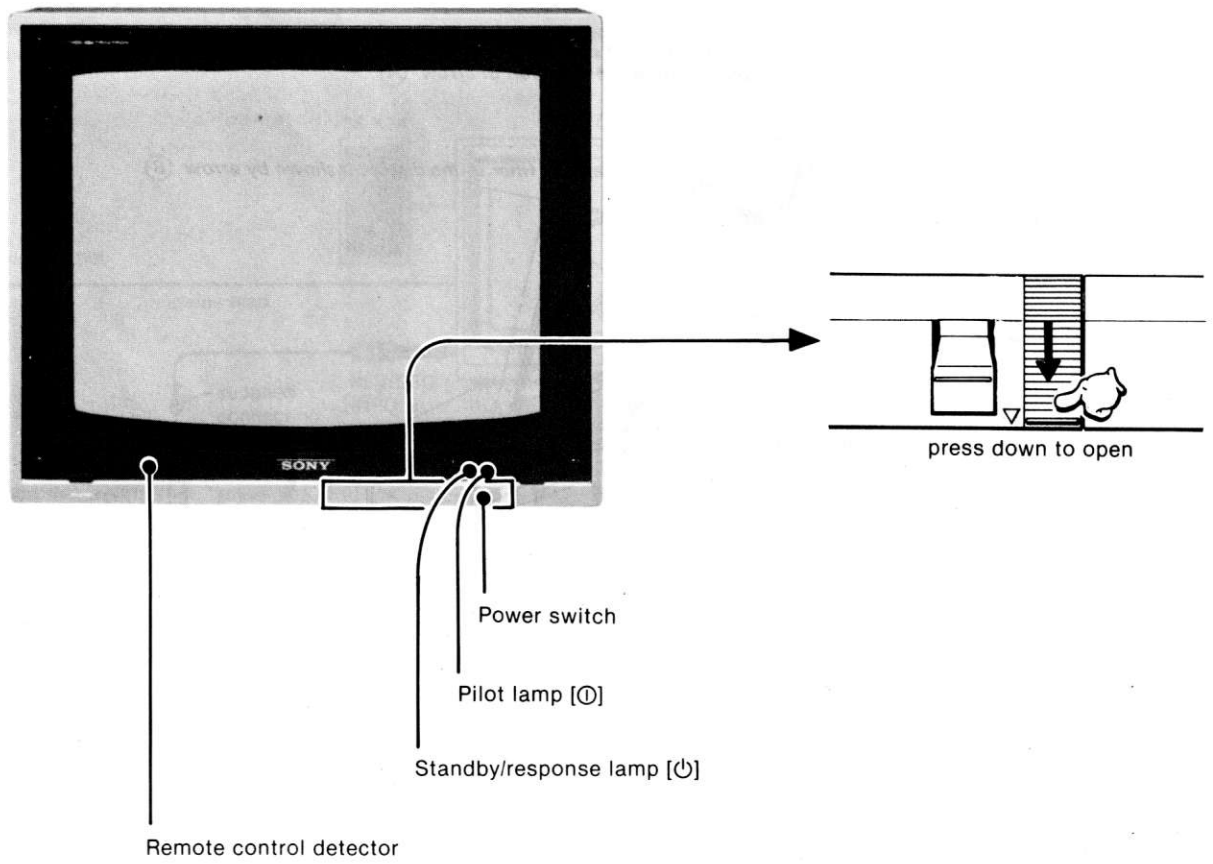
AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

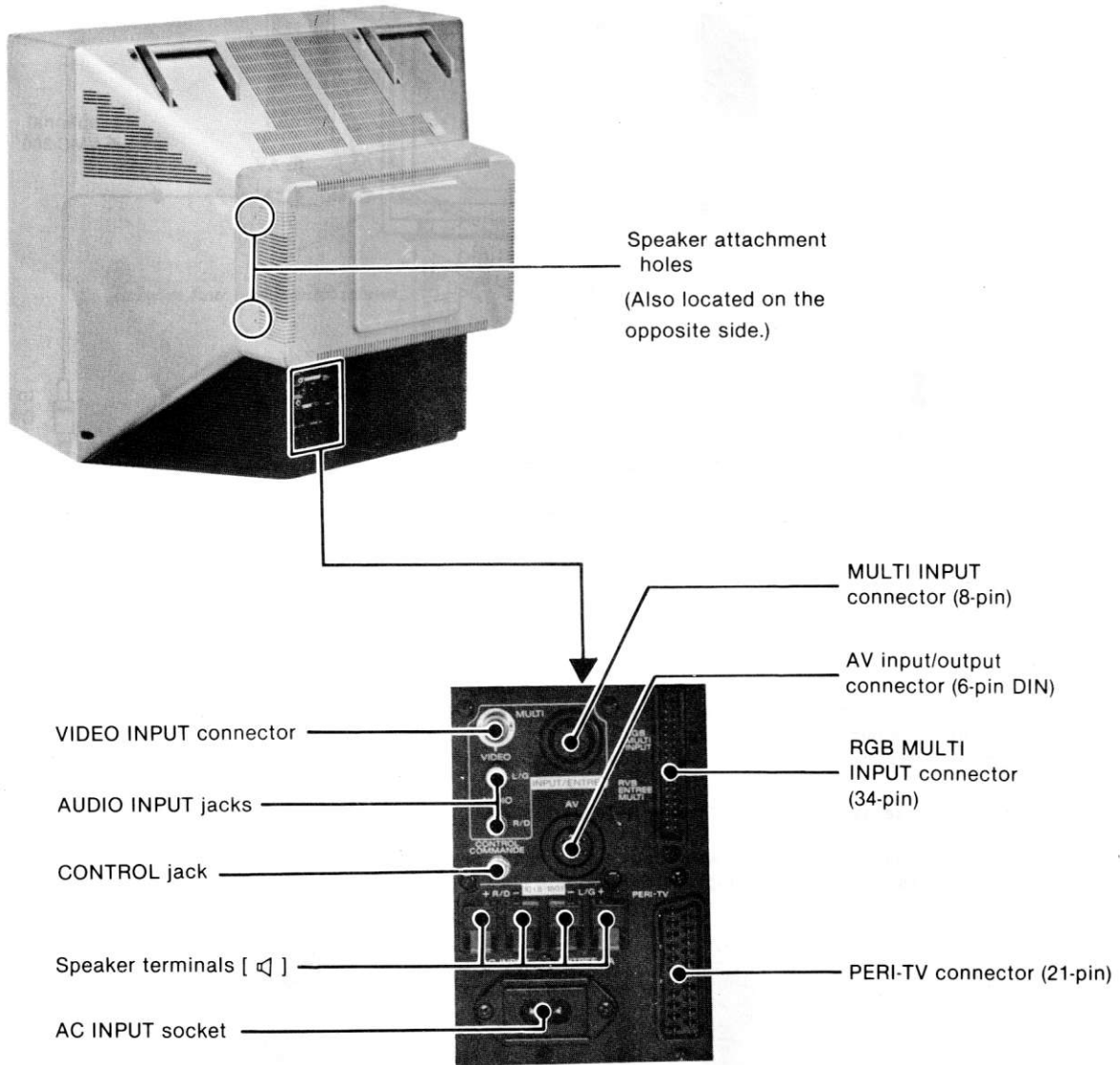
COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SECTION 1 OUTLINE

1-1. FEATURES



1-2. LOCATION AND FUNCTION OF PARTS AND CONTROLS



3. EXAMPLES OF SYSTEM CONNECTIONS

A colour monitor designed for a variety of uses with a Sony colour TV tuner, Sony Betamax video cassette recorder, video camera, etc.

Dynamic Picture system adjusts picture contrast automatically to produce more detail in both bright and dark areas of every scene.

Dynamic Colour system for superior colour reproduction with natural facial colour tones and dazzling whites.

Two built-in audio amplifiers provide dynamic sound from an externally connected speaker system (optional).

Pulse techniques are used in the power supply section to provide an efficient and stable power supply.

With the Remote Commander (supplied with the Sony VTX-100E* colour TV tuner), this colour monitor and the VTX-100E may be remotely controlled.

With the optional Remote Commander, the colour monitor, a TV tuner (e.g., the Sony VTX-100E or TT-F1E) and a video cassette recorder such as the Sony SL-F1E may be remotely controlled. Point the Commander toward the remote control detector on the colour monitor, VTX-100E or TT-F1E.

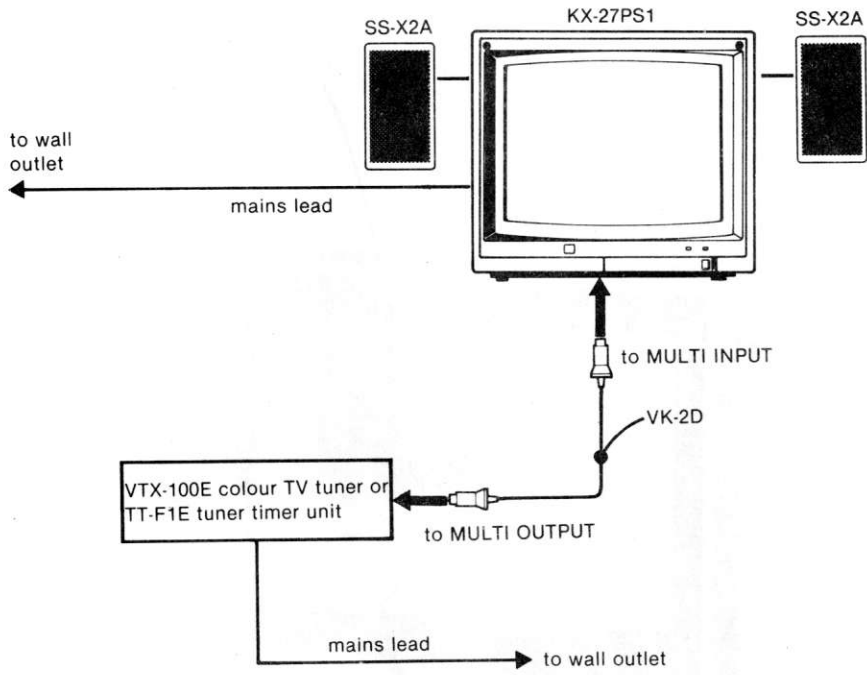
Energy-saving quick-start system.

Smoked glass over the picture tube for a glare-free picture with optimum contrast.

*The last letter of the model number indicates where the unit was purchased: E (for European countries), ES (for Germany), UB (for United Kingdom), for example.

Colour monitor + Speaker system + Colour TV tuner or tuner timer unit

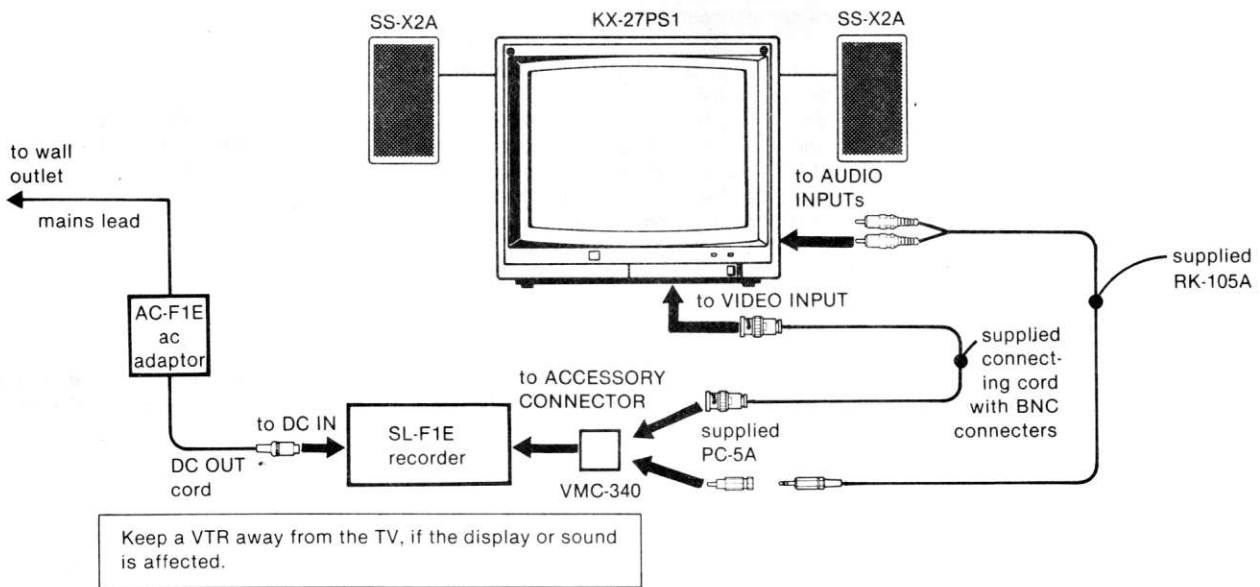
TV programmes can be viewed on the colour monitor with this system.



- Connect an external TV antenna to the TV tuner following the instructions furnished with the TV tuner.

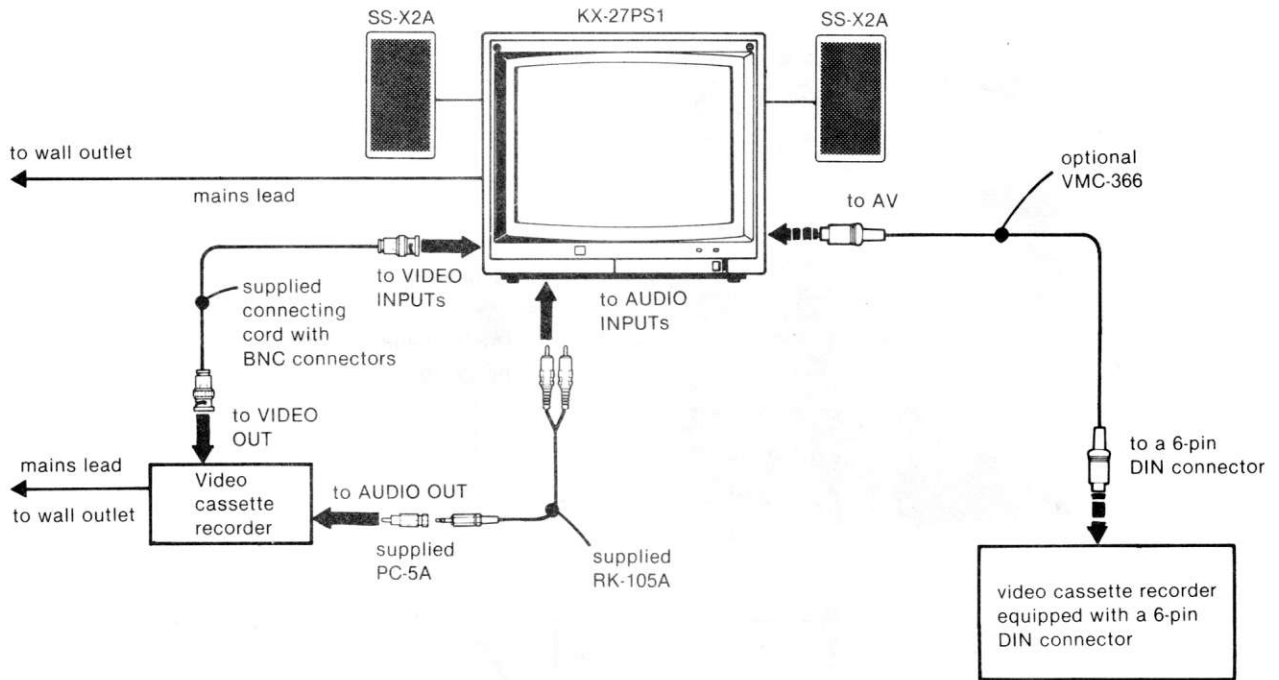
Colour monitor + Speaker system + VTR not equipped with a TV tuner

VTR playback can be viewed on the colour monitor with this system.



Colour monitor + Speaker system + VTR equipped with a TV tuner (or VTR + TV tuner)

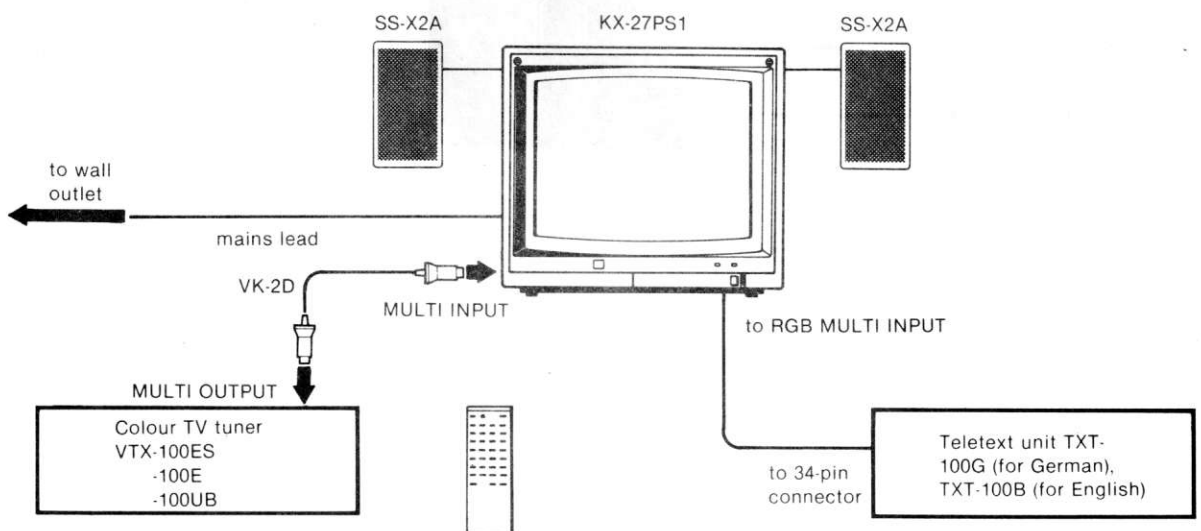
Off-the air TV programmes, recorded TV programmes and camera-recorded programmes can be viewed on the colour monitor with this system.



- Connect an external TV antenna to the tuner timer unit or video cassette recorder following the instructions furnished with the unit.
- Do not connect AUDIO/VIDEO cables and 8-pin DIN cable simultaneously.

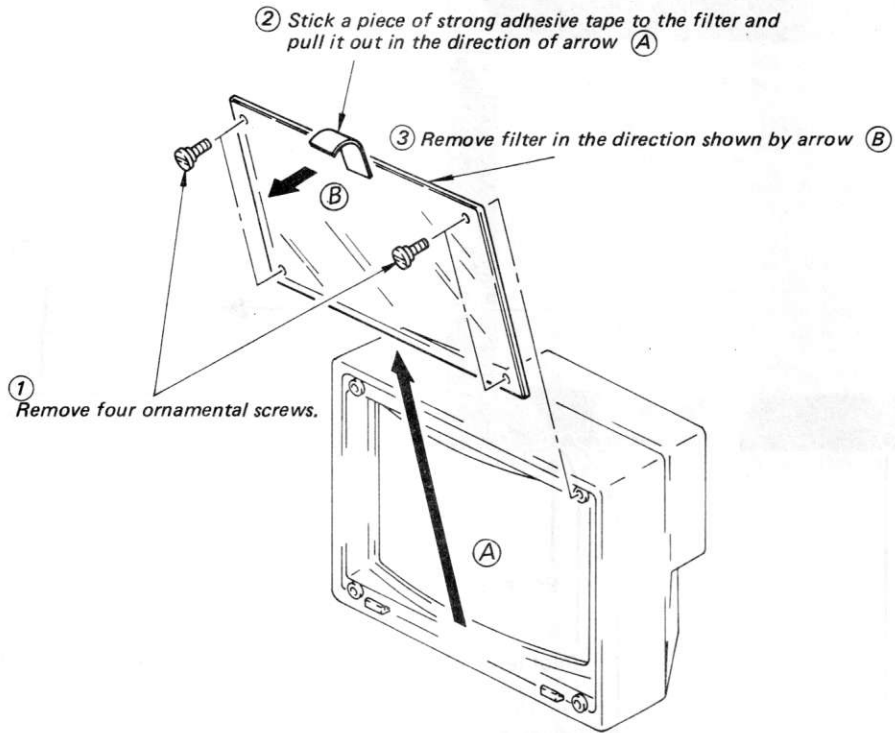
Colour monitor + Speaker system + Colour TV tuner + Teletext unit

Teletext or videotext programmes can be viewed on the colour monitor. Select the programmes with the Remote Commander designated in the instructions supplied with the VTX-100E colour TV tuner.

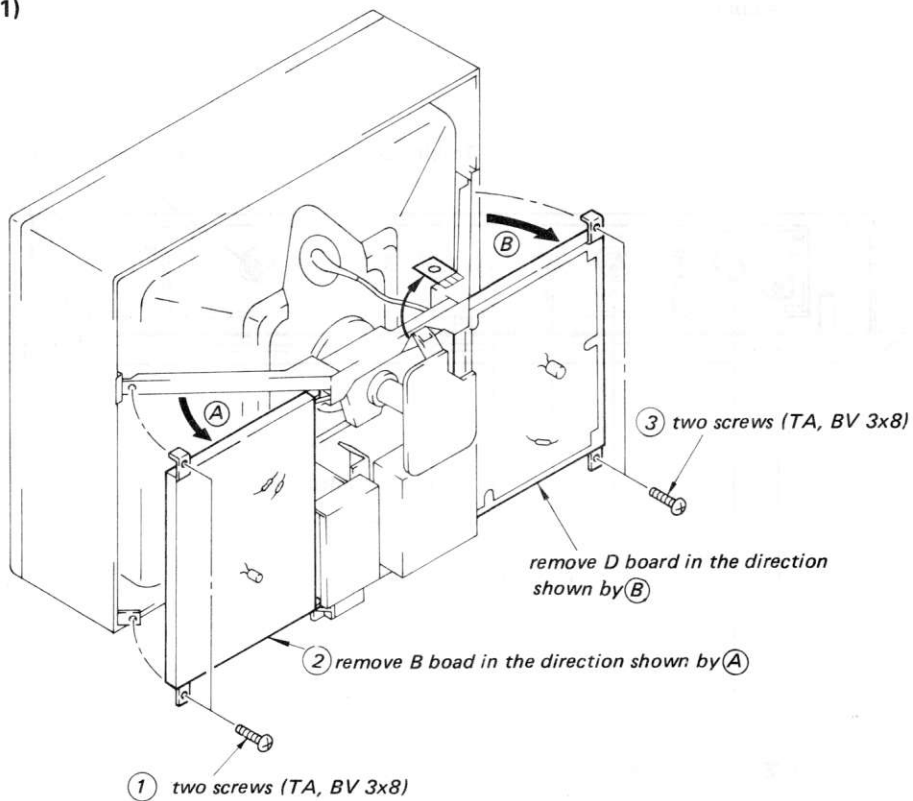


SECTION 2 DISASSEMBLY

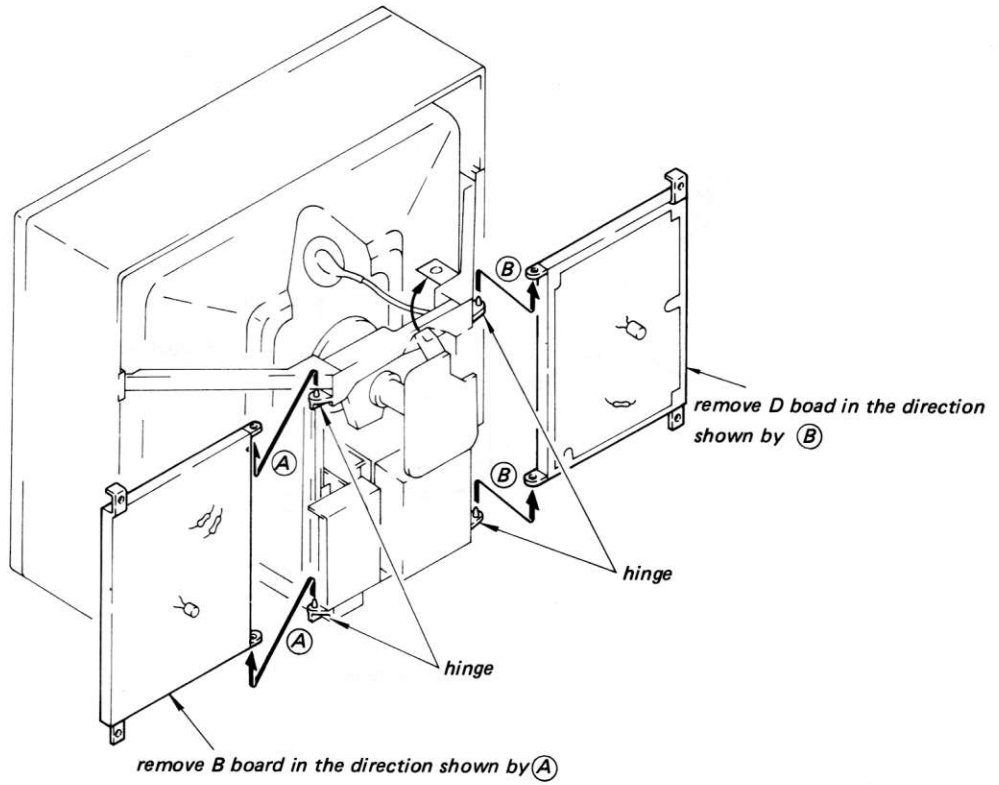
1. FILTER REMOVAL



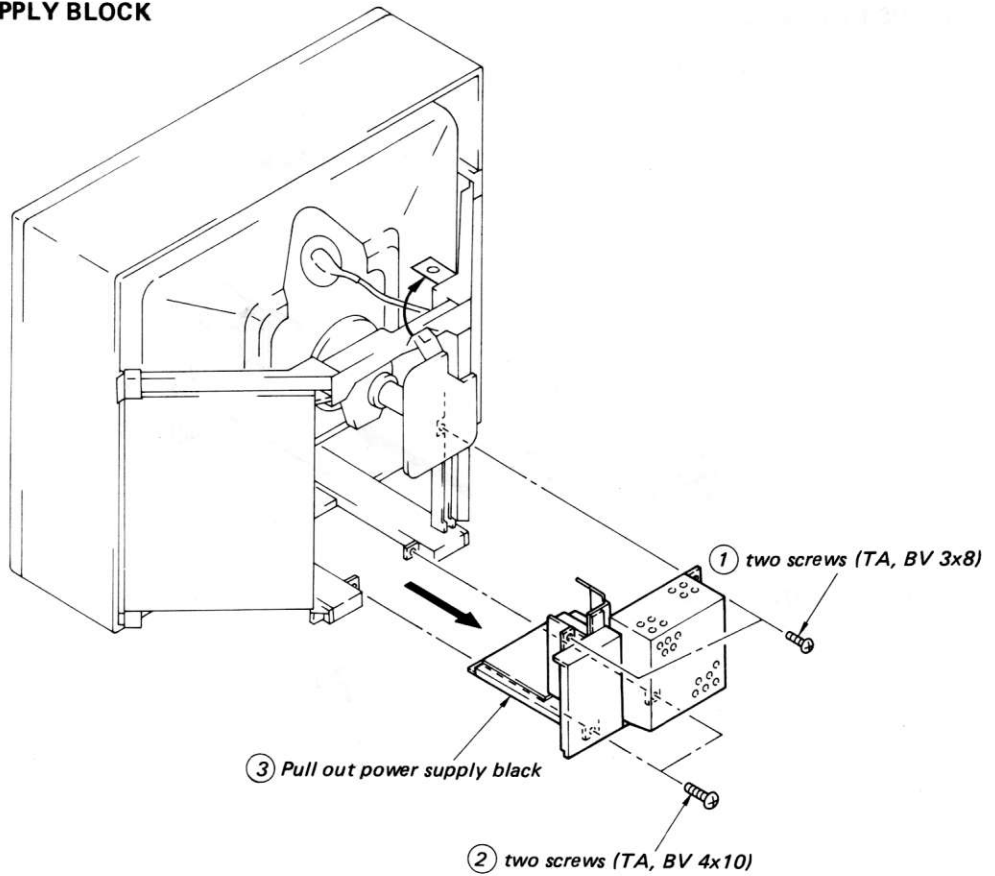
2. B AND D BOARDS REMOVAL (1)



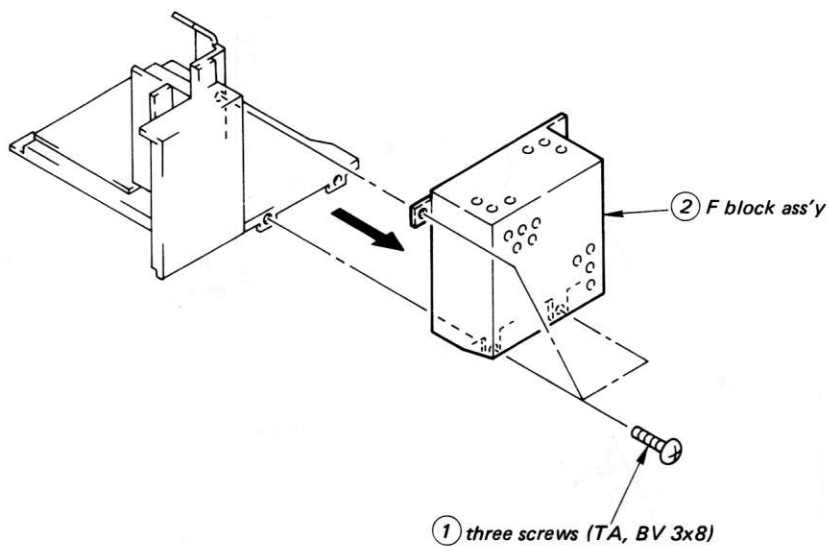
(2)



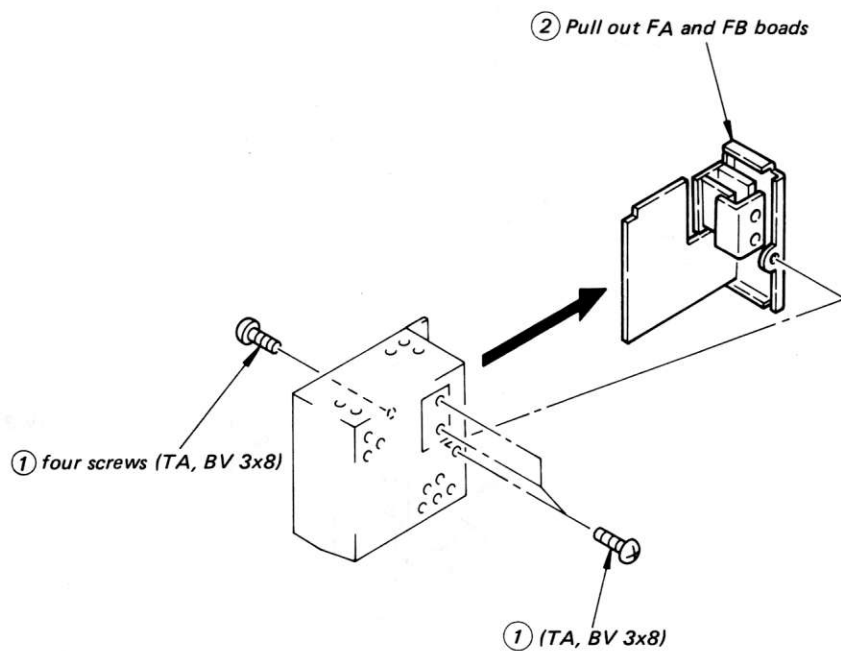
3. POWER SUPPLY BLOCK REMOVAL



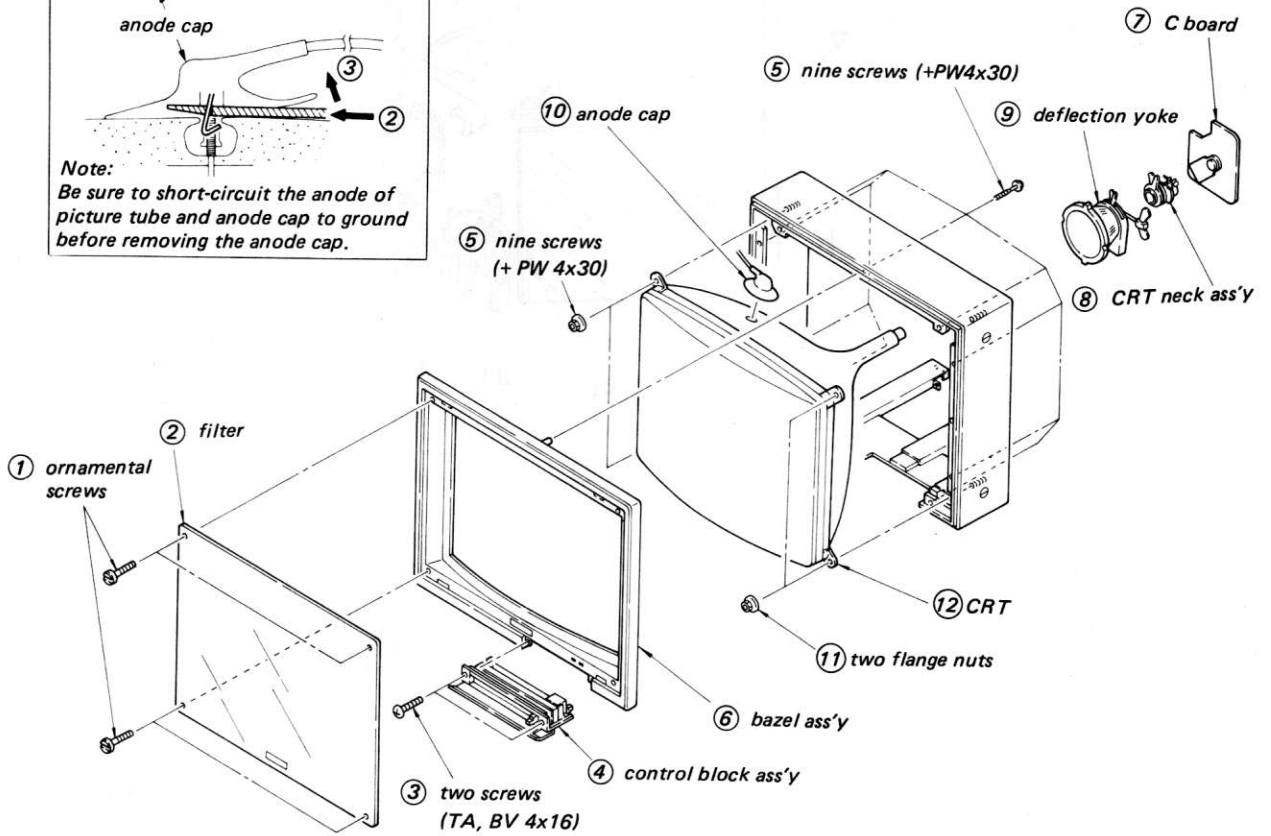
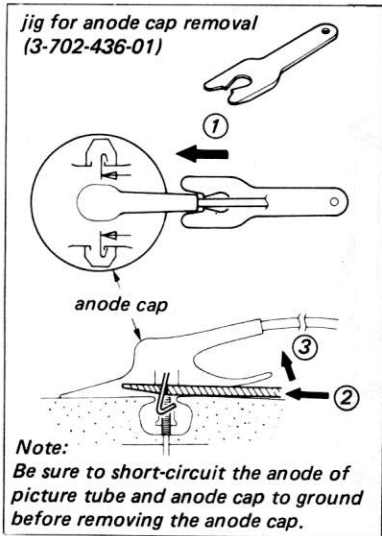
4. F BLOCK ASS'Y REMOVAL



5. FA AND FB BOARDS REMOVAL

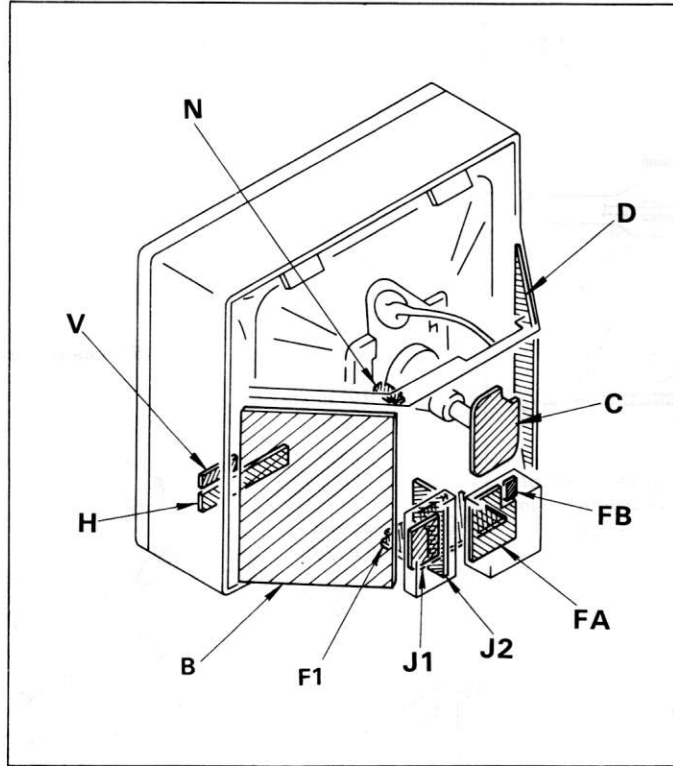


6. PICTURE TUBE REMOVAL

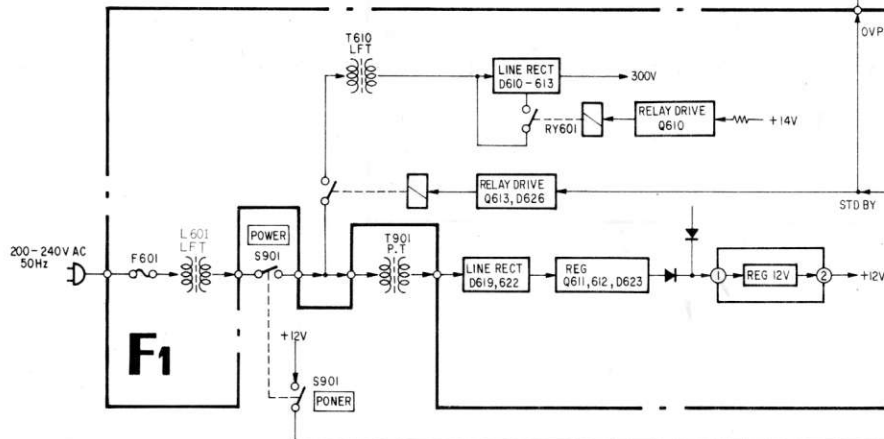
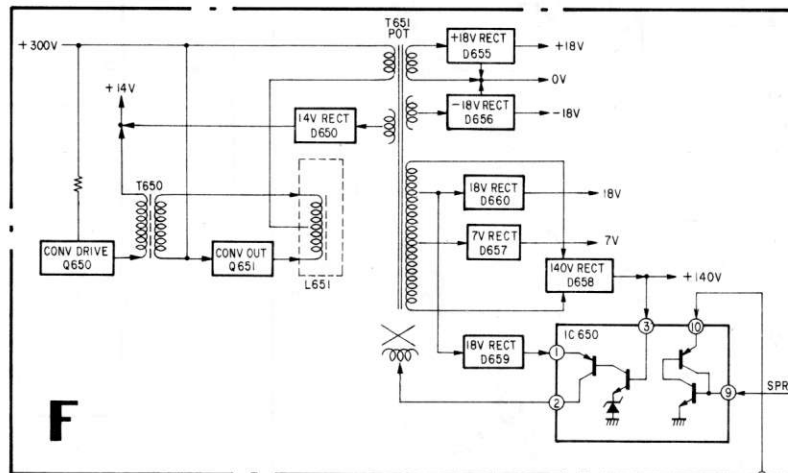
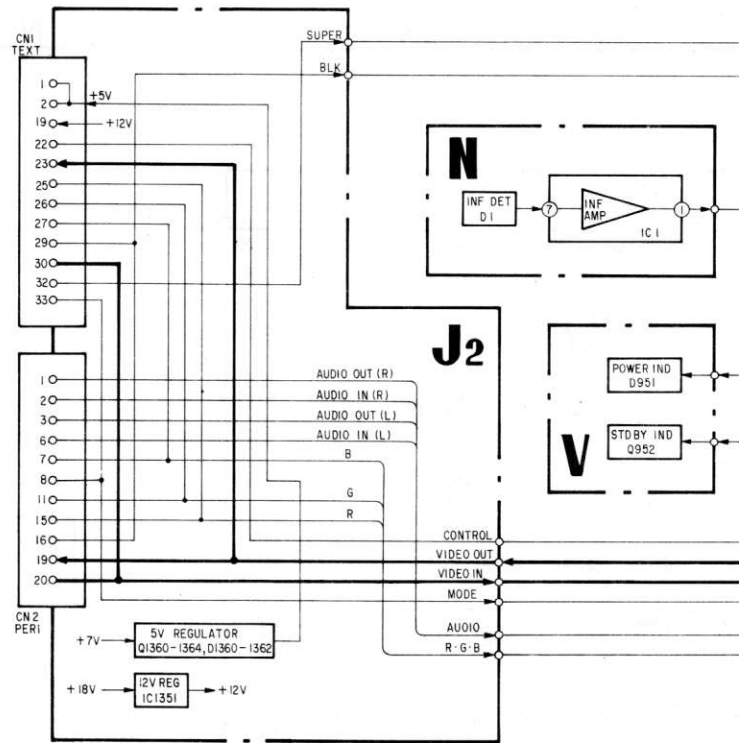


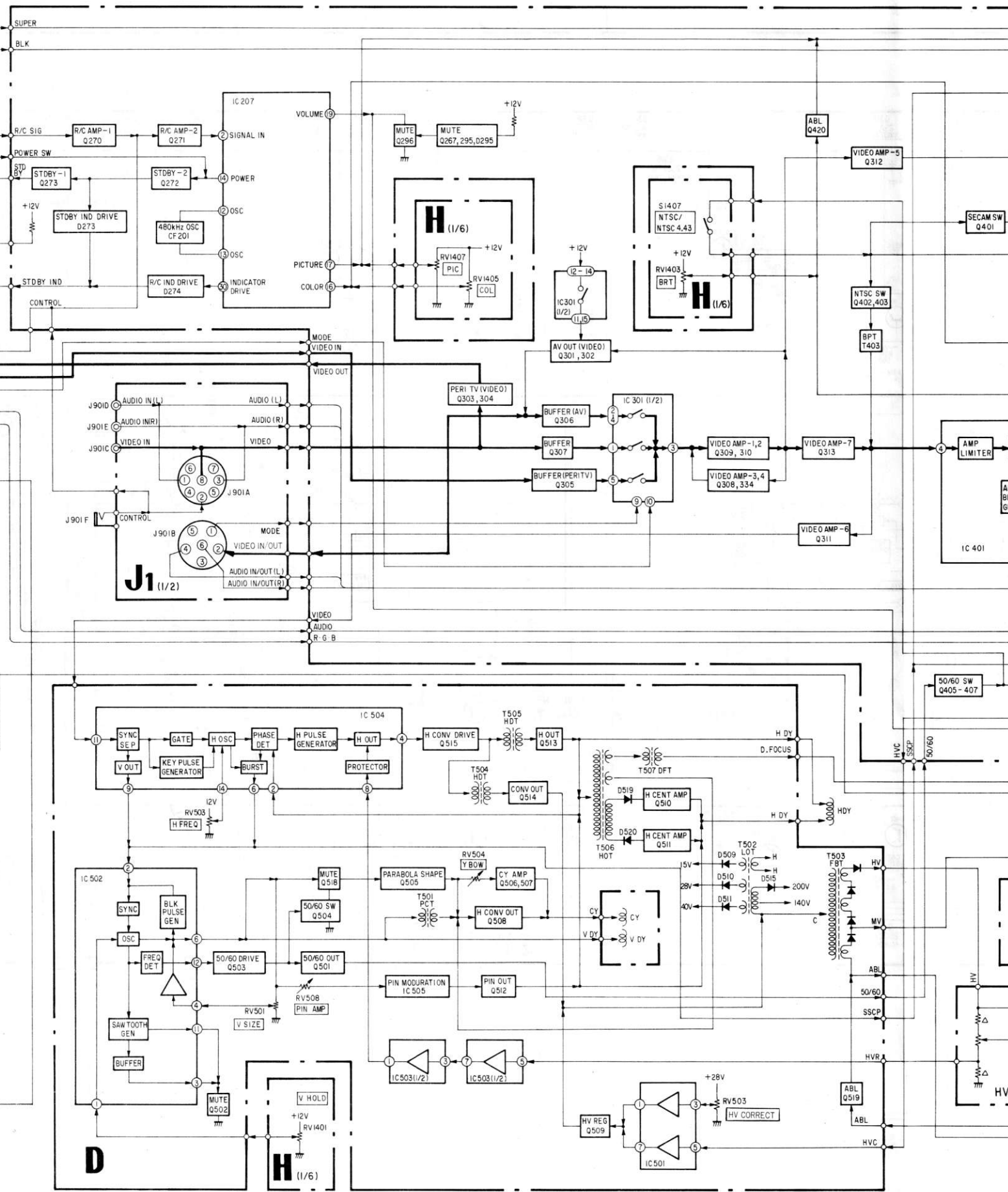
SECTION 3 DIAGRAMS

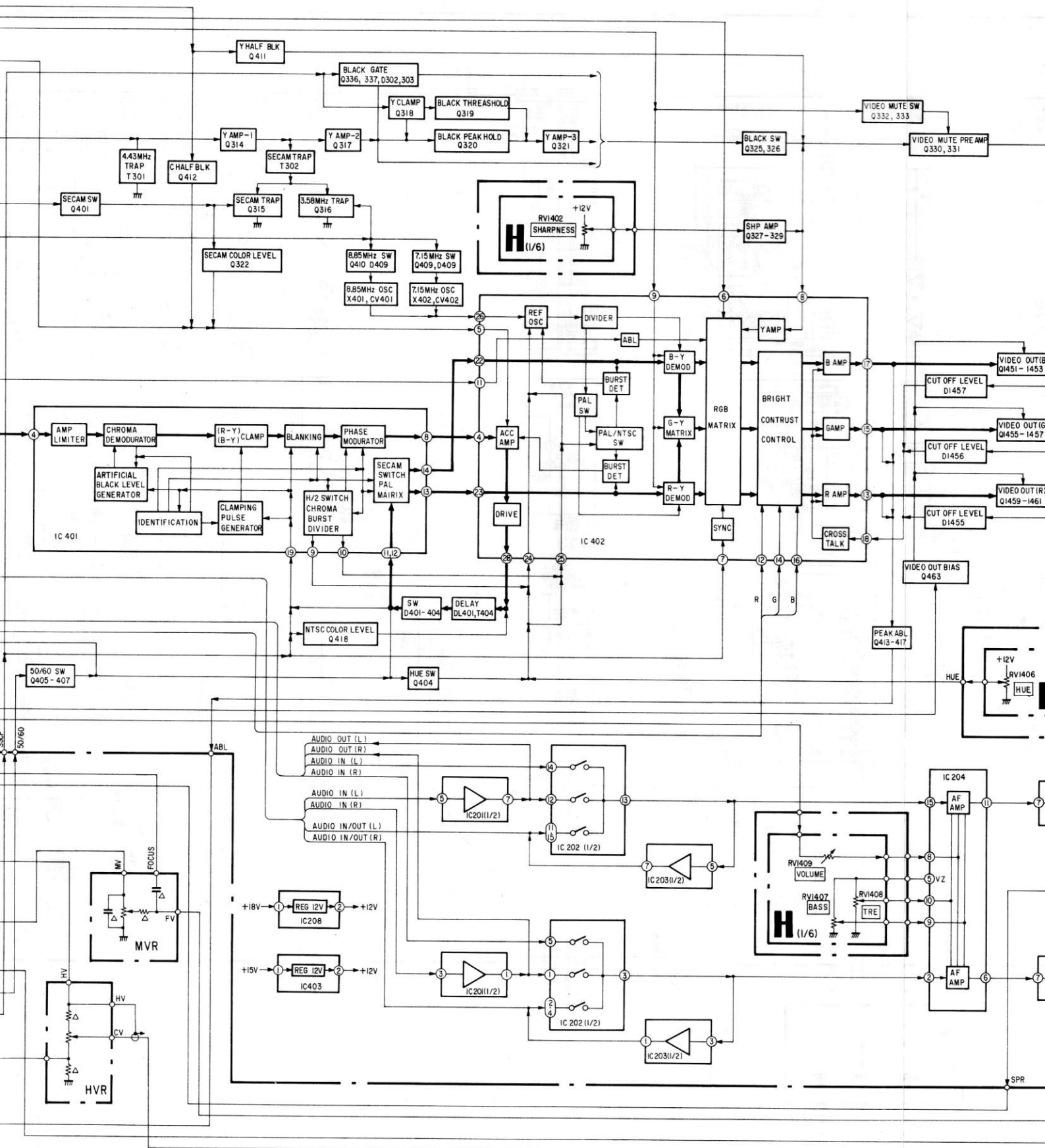
3-1. CIRCUIT BOARDS LOCATION

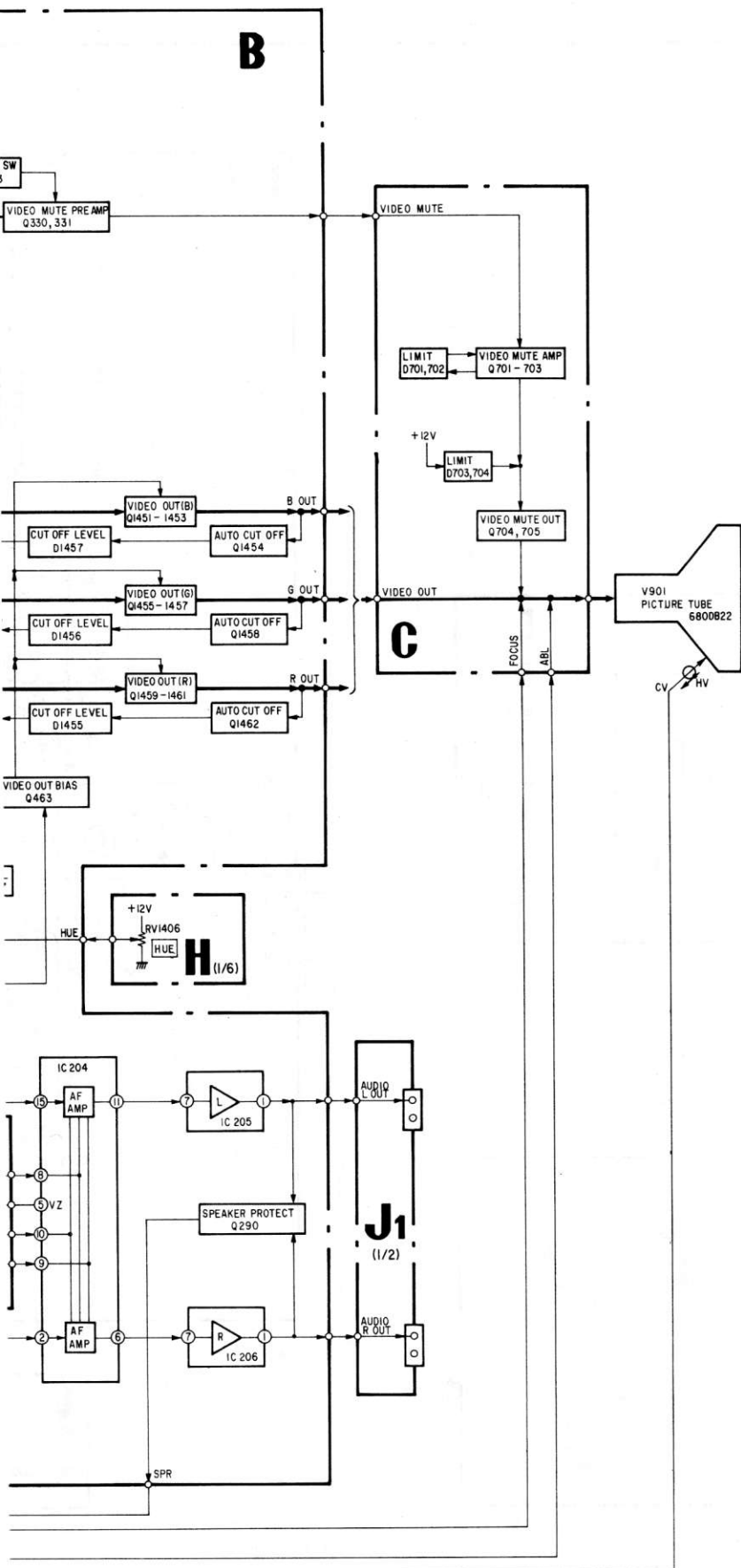


3-2 BLOCK DIAGRAM









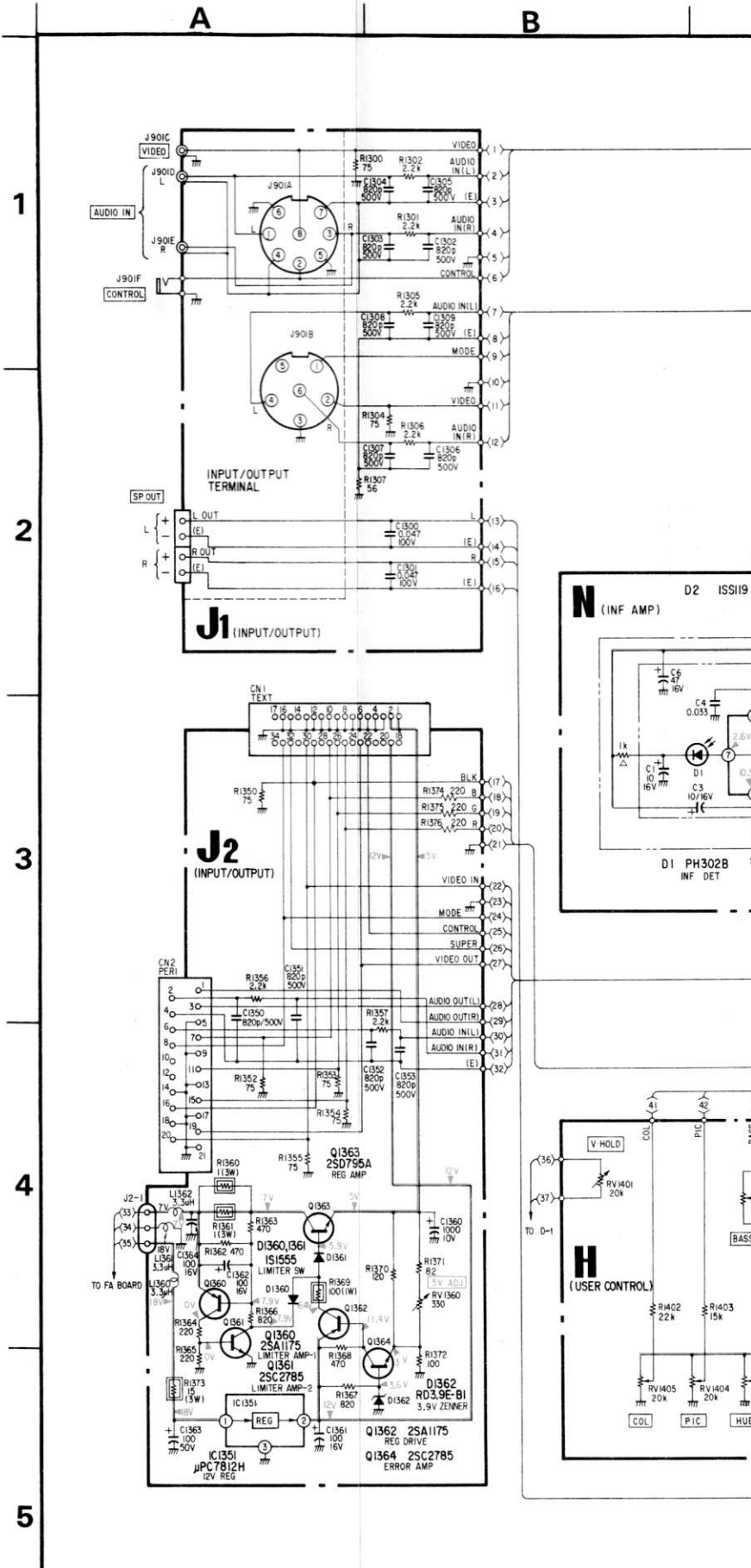
3-3. SCHEMATIC DIAGRAM

Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Note:

- All capacitors are in μF unless otherwise noted. 50WV or less are not indicated except for electrolytics. ρ : μF
- All resistors are in ohms. $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- \square : nonflammable resistor.
- \square : fusible resistor.
- Δ : internal component.
- \square : panel designation.
- \square : adjustment for repair.
- --- : B+ bus.
- --- : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- All voltage are in V.
- No Mark : PAL or COMMON
- () : SECAM
- < > : NTSC 4.43
- [] : NTSC 3.58
- Readings are taken with a 10 M Ω digital multimeter.
- Readings are taken with a color-bar signal input.

Note: Please be careful of the sharp edges on the audio heat sink.

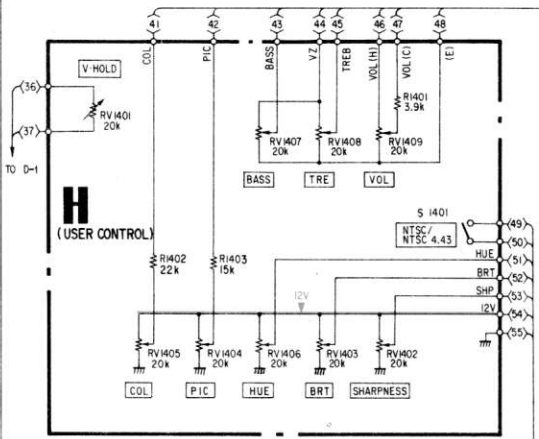
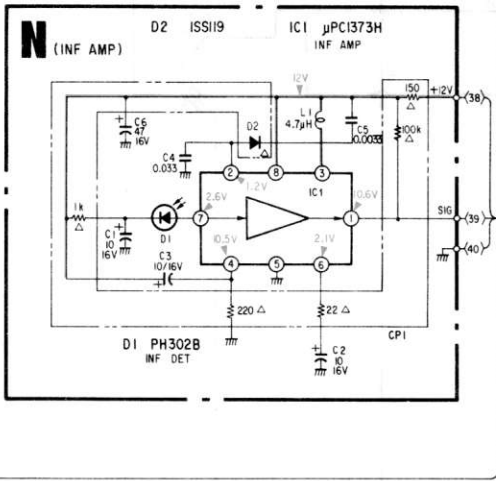
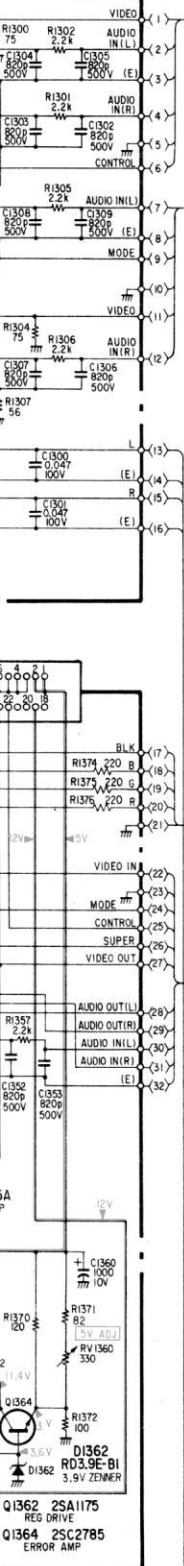


B

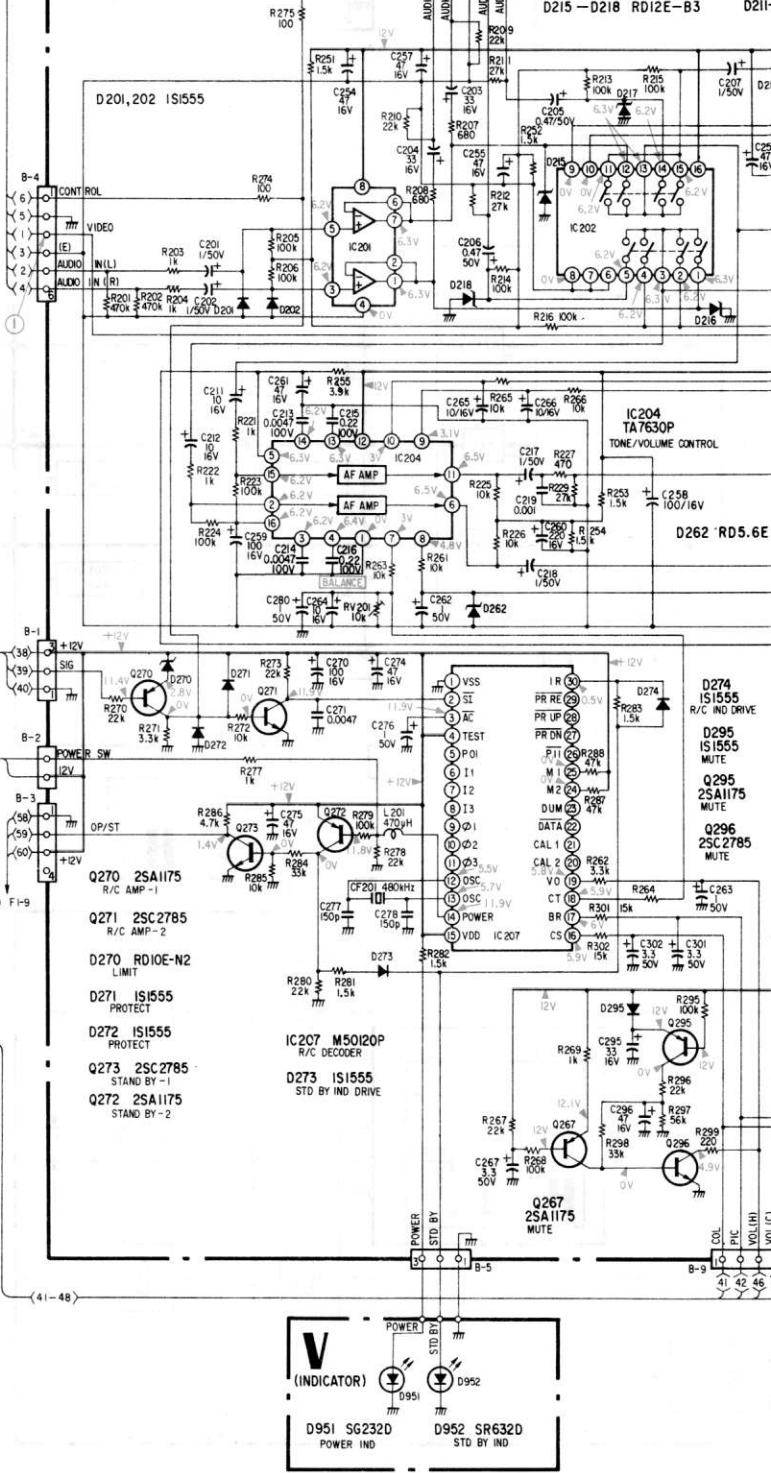
C

D

E



B / REMOTE CONTROL, AUDIO OUT, VIDEO OUT, PAL/SECAM/NTSC SW

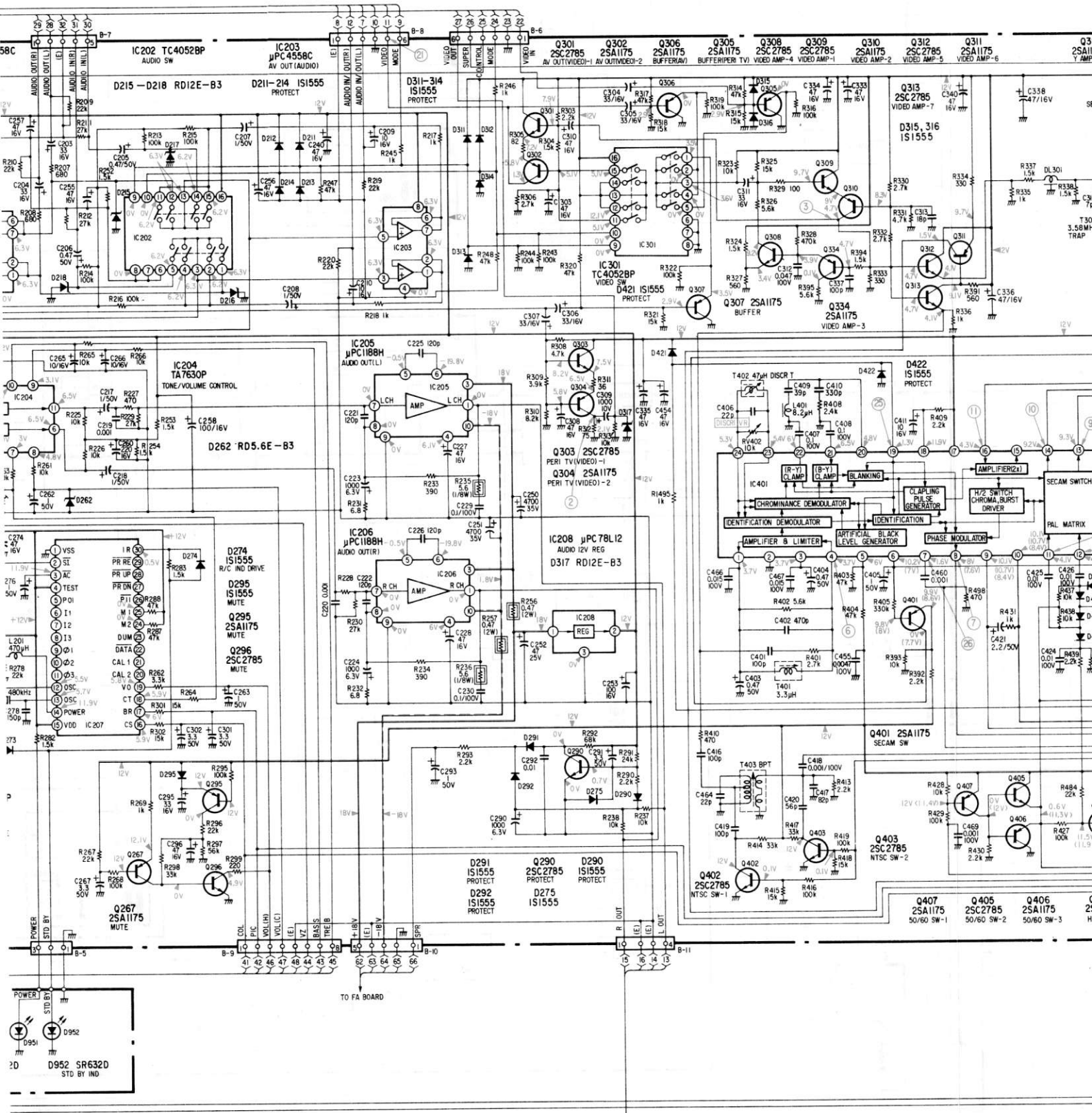


E

F

G

H

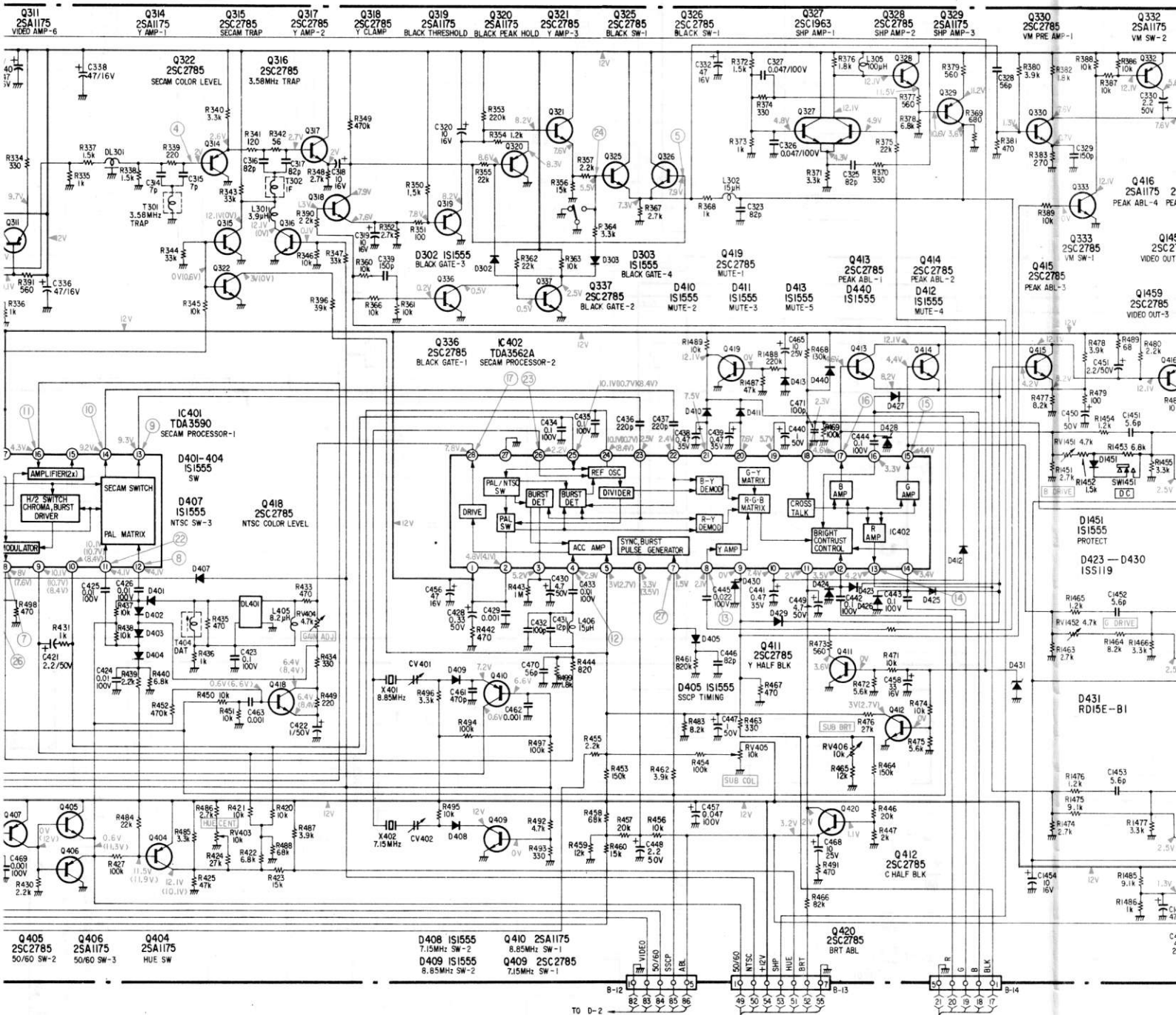


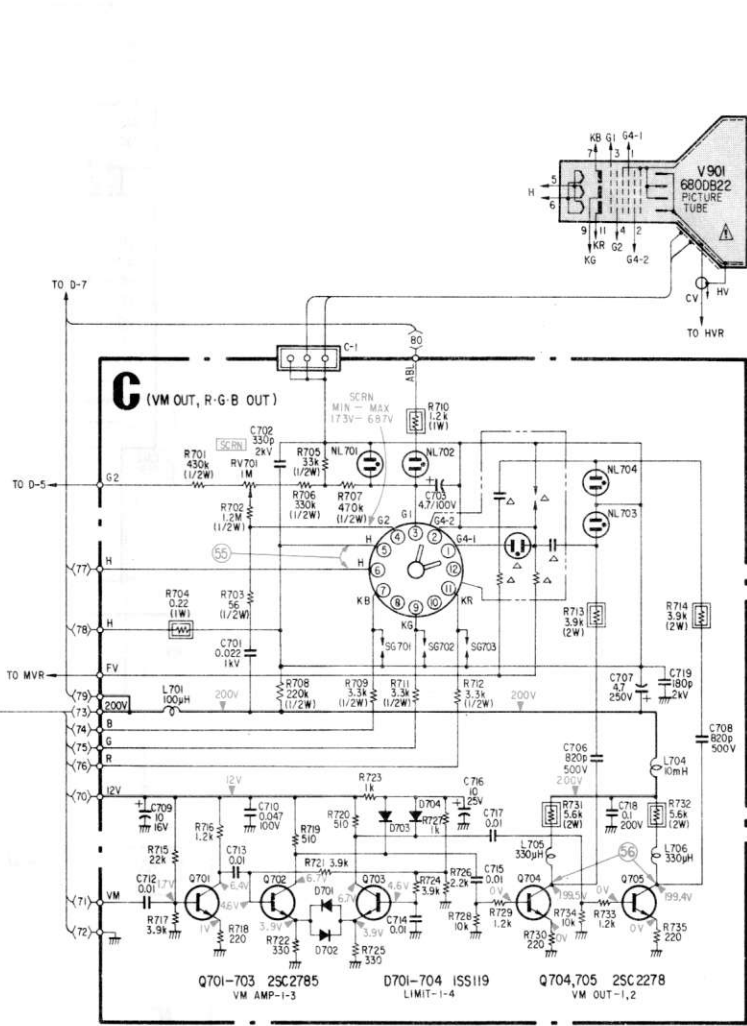
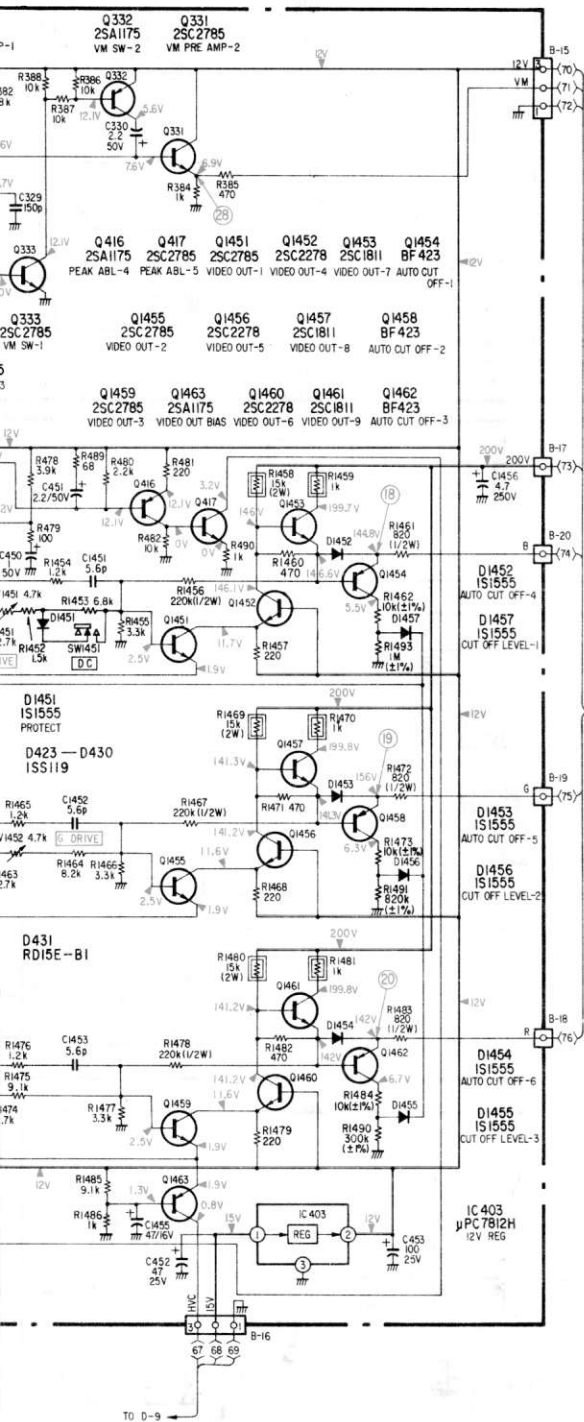
I

J

K

L





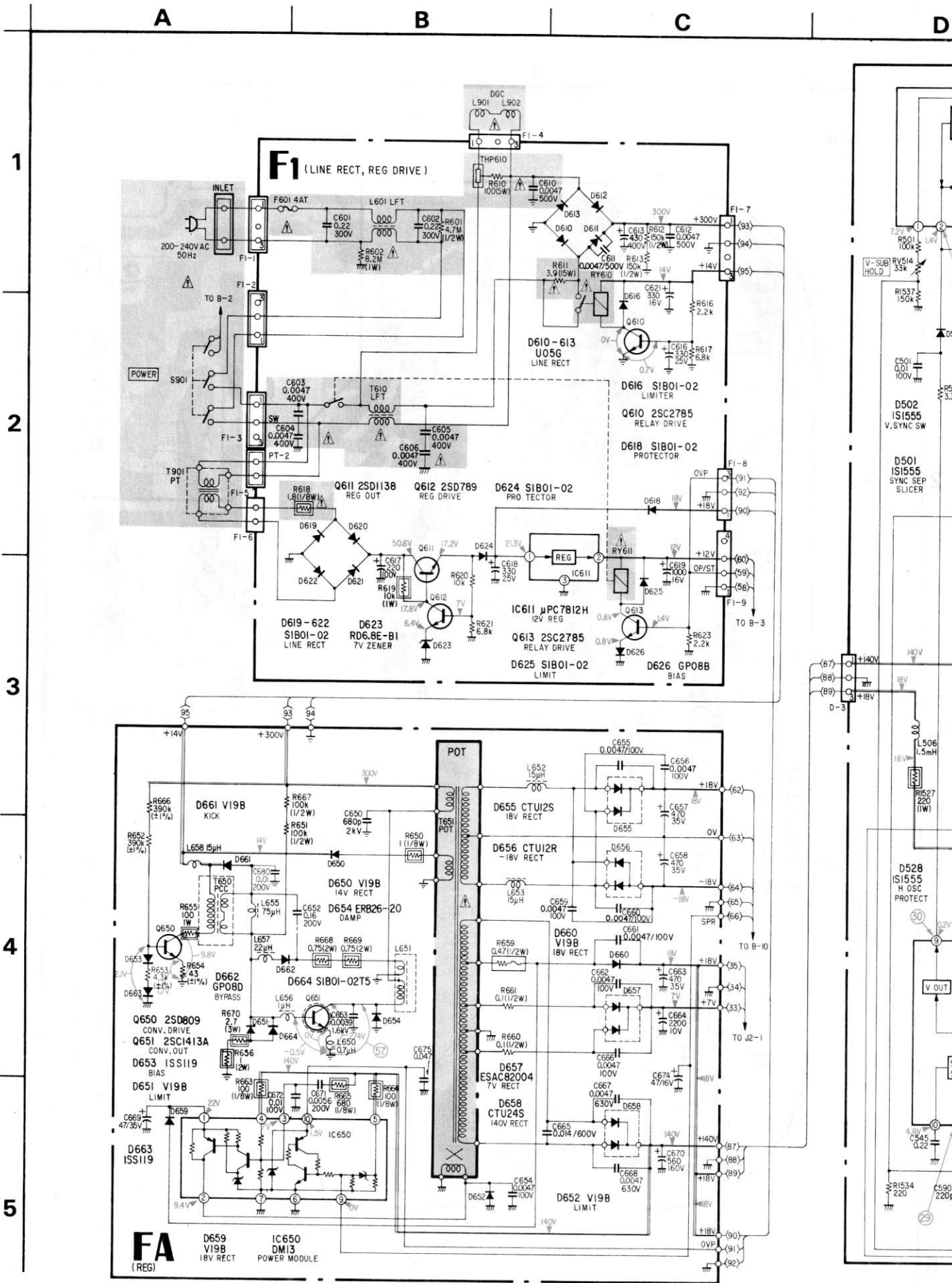
1

2

3

4

5

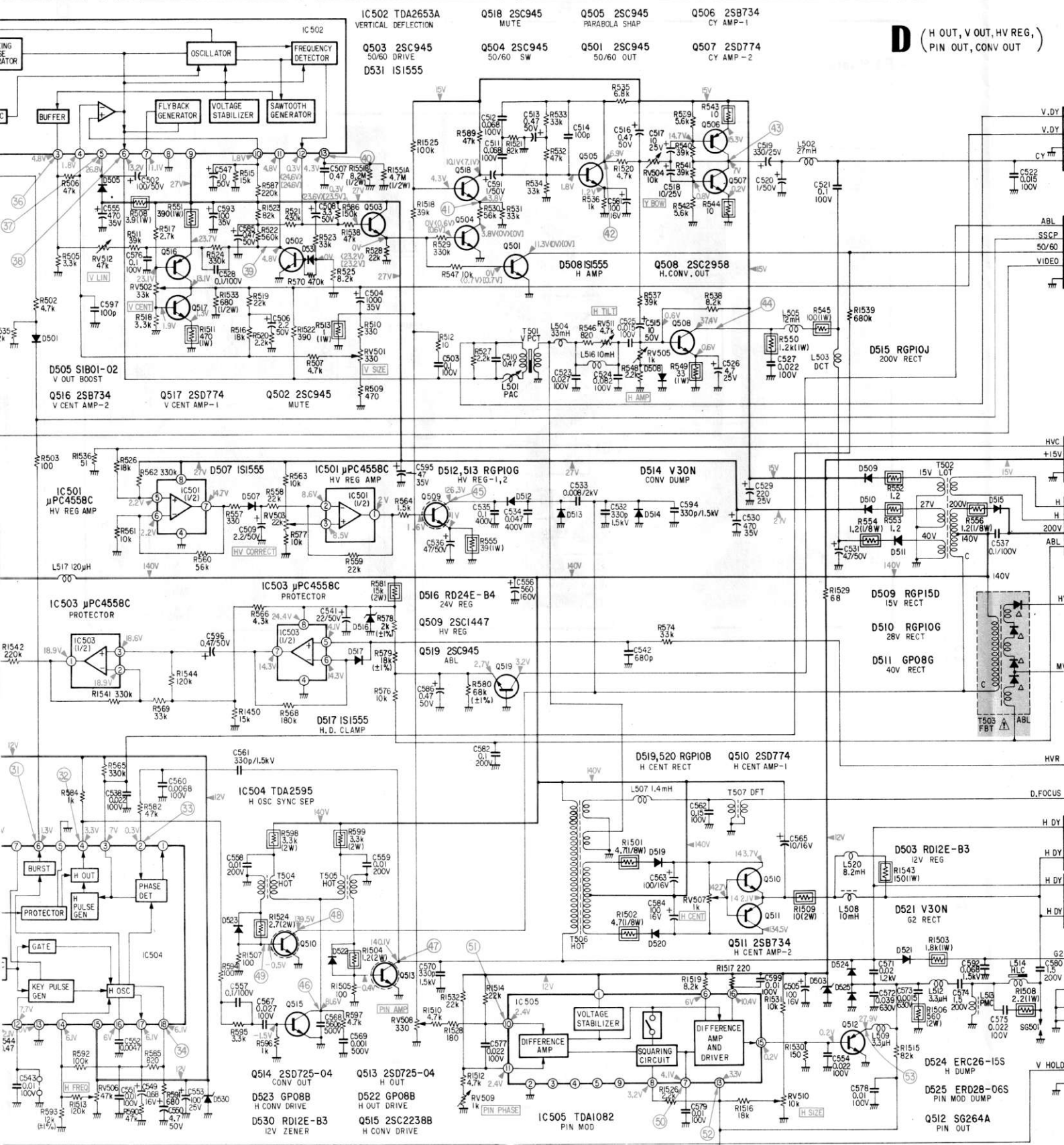


E

F

G

H

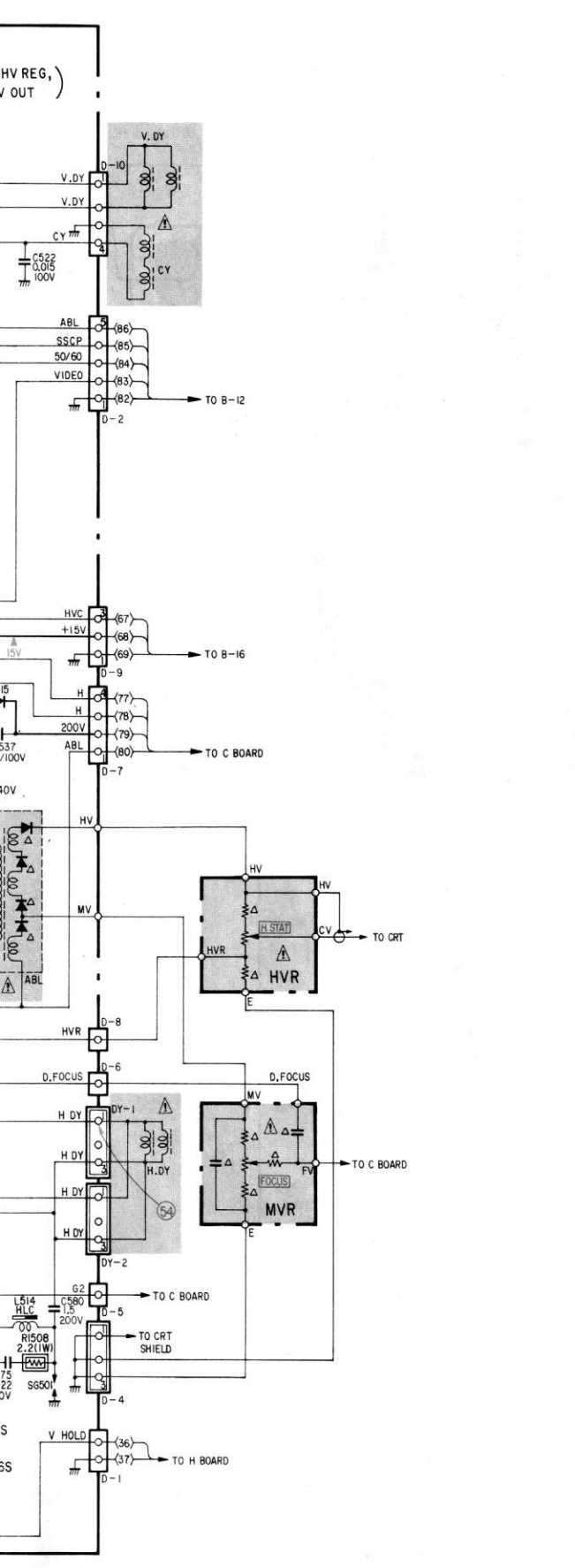


D (H OUT, V OUT, HV REG, PIN OUT, CONV OUT)

RV505 AMP HORIZ.
 RV501 AMP. VERT.
 RV512 LIN.
 RV502 VERT CENTR.

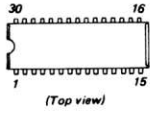
Voin T501
 L504
 L516
 L501

TDA 1082

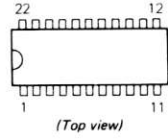


3-4. SEMICONDUCTORS

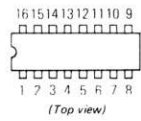
M50120P



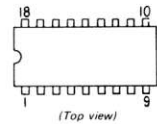
NJM7812B
μPC7812H



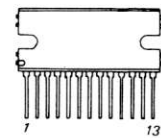
TA7630P
TC4052BP
TDA1082



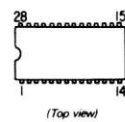
TDA2595



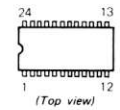
TDA2653A



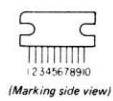
TDA3562A



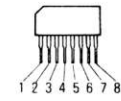
TDA3590



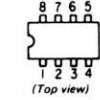
μPC1188H



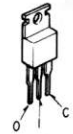
μPC1373H



μPC4558C



μPC78L12



2SA1015
2SA733
2SC1815
2SC945



2SA1048
2SC2458
2SC2603



2SA1175
2SC2785



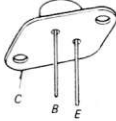
2SA773
2SB740
2SC1475
2SC1811
2SD789



2SB734
2SC2958
2SD777



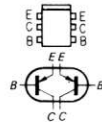
2SC1413A
2SD725



2SC1447
2SC2238
2SC2238B
2SD1138-02-C
2SD795A



2SC1963



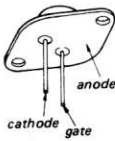
2SC2278



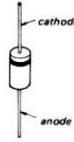
BF423



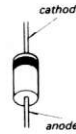
SG264A



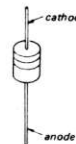
10E2
ERB12-02RK
ERB12-04RK
GP08B
GP08D
RGP10B
RGP10J
RGP15D



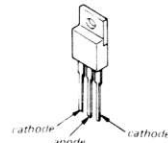
1N4148H
1S1555
1S2076
1S2473
1SS133
ERD28-08
RD12E-B3
RD24E-B4
RD3.9E-B1
RD6.2E-L3
RD6.8E-B1Z
SIB01-02T5
US1035



1SS119
1SS120
1SS148



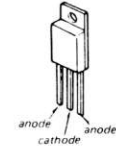
CTU12R



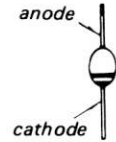
EM1Z



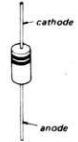
CTU12S
CTU24S
ESAC82-004



ERB26-20
V19B
V19E
V30N



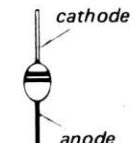
ERC24-06S
SIB01-02



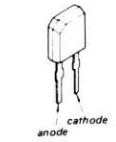
ERC26-15S



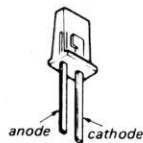
GH3F
U05G



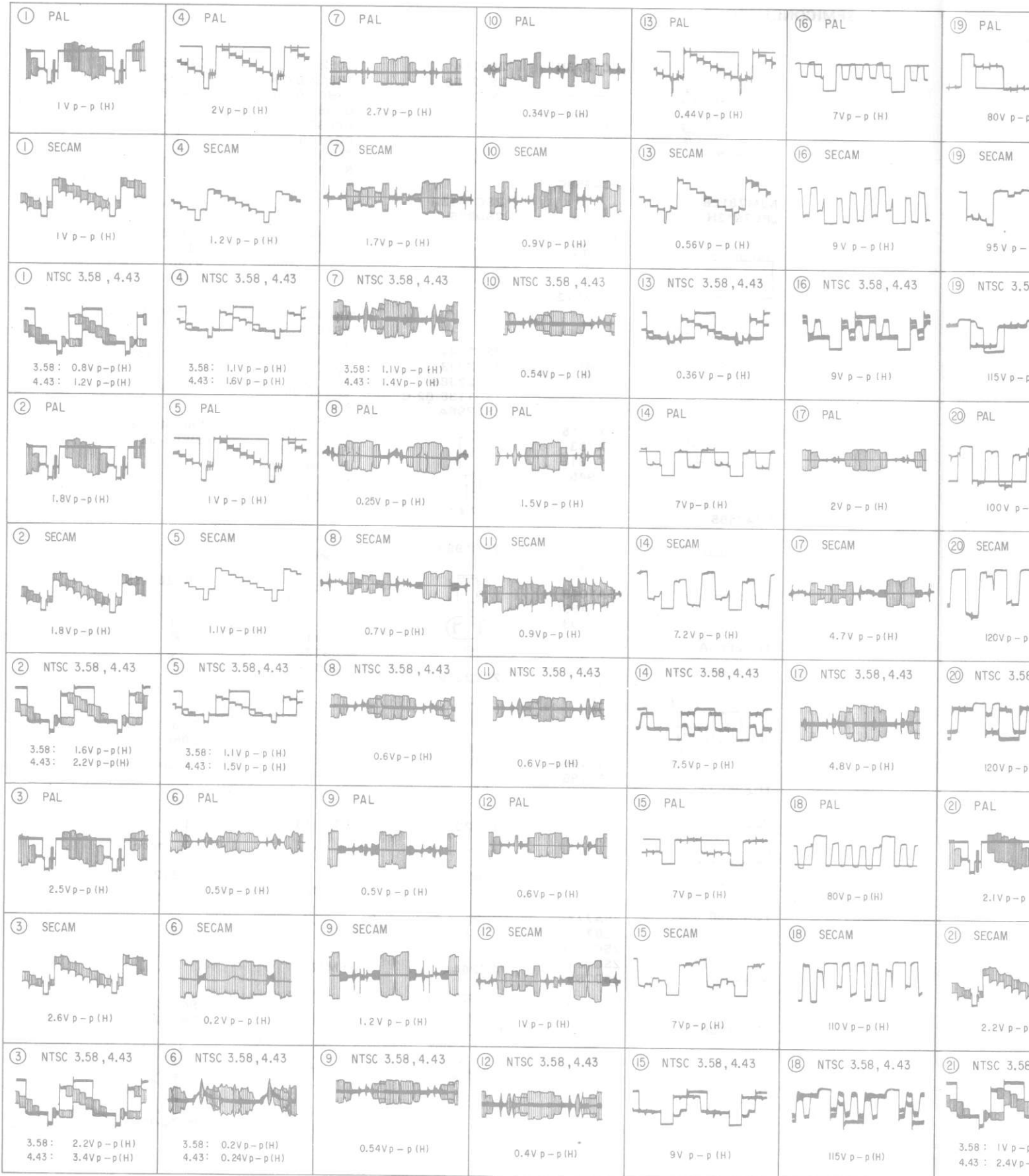
PH302B












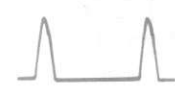







































SG232D
SR632D



3-5. WAVEFORMS



| | | | | | |
|--|--|--|--|--|---|
| <p>① PAL</p>  <p>80V p-p (H)</p> | <p>② PAL</p>  <p>0.3V p-p (H)</p> | <p>⑨ PAL</p>  <p>1V p-p (H)</p> | <p>⑩ PAL</p>  <p>12V p-p (V)</p> | <p>⑪ PAL</p>  <p>80V p-p (V)</p> | <p>⑫ PAL</p>  <p>320V p-p (H)</p> |
| <p>⑬ SECAM</p>  <p>95V p-p (H)</p> | <p>⑭ SECAM</p>  <p>0.7V p-p (H)</p> | <p>⑮ SECAM</p>  <p>1V p-p (H)</p> | <p>⑯ SECAM</p>  <p>23V p-p (V)</p> | <p>⑰ SECAM</p>  <p>175V p-p (H)</p> | <p>⑱ SECAM</p>  <p>25V p-p (H)</p> |
| <p>⑲ NTSC 3.58, 4.43</p>  <p>115V p-p (H)</p> | <p>⑳ PAL</p>  <p>0.5V p-p (8.85MHz)</p> | <p>㉑ NTSC 3.58, 4.43</p>  <p>1V p-p (H)</p> | <p>㉒ PAL</p>  <p>48V p-p (V)</p> | <p>㉓ PAL</p>  <p>1150V p-p (H)</p> | <p>㉔ PAL</p>  <p>80V p-p (H) (CROSS HATCH)</p> |
| <p>㉕ PAL</p>  <p>100V p-p (H)</p> | <p>㉖ NTSC 3.58</p>  <p>0.34V p-p (7.15MHz)</p> | <p>㉗ PAL</p>  <p>11V p-p (V)</p> | <p>㉘ PAL</p>  <p>12V p-p (V)</p> | <p>㉙ PAL</p>  <p>1200V p-p (H)</p> | <p>㉚ PAL</p>  <p>16µs 1120V p-p</p> |
| <p>㉛ SECAM</p>  <p>120V p-p (H)</p> | <p>㉜ SECAM</p>  <p>3V p-p (H)</p> | <p>㉝ SECAM</p>  <p>11V p-p (H)</p> | <p>㉞ SECAM</p>  <p>11V p-p (V)</p> | <p>㉟ SECAM</p>  <p>13V p-p (H)</p> | |
| <p>㊱ NTSC 3.58, 4.43</p>  <p>120V p-p (H)</p> | <p>㊲ PAL</p>  <p>9V p-p (H)</p> | <p>㊳ PAL</p>  <p>9.5V p-p (H)</p> | <p>㊴ PAL</p>  <p>1.8V p-p (V)</p> | <p>㊵ PAL</p>  <p>2.2V p-p (V)</p> | |
| <p>㊶ PAL</p>  <p>2.1V p-p (H)</p> | <p>㊷ PAL</p>  <p>0.3V p-p (8.85MHz)</p> | <p>㊸ PAL</p>  <p>5.8V p-p (H)</p> | <p>㊹ PAL</p>  <p>5.6V p-p (V)</p> | <p>㊺ PAL</p>  <p>1V p-p (V)</p> | |
| <p>㊻ SECAM</p>  <p>2.2V p-p (H)</p> | <p>㊼ SECAM</p>  <p>9V p-p (H)</p> | <p>㊽ SECAM</p>  <p>4.8V p-p (V)</p> | <p>㊾ SECAM</p>  <p>4.5V p-p (V)</p> | <p>㊿ SECAM</p>  <p>4V p-p (V)</p> | |
| <p>㋀ NTSC 3.58, 4.43</p>  <p>3.58: 1V p-p (H) 4.43: 2.4V p-p (H)</p> | <p>㋁ PAL</p>  <p>1.2V p-p (H) (CROSS HATCH)</p> | <p>㋂ PAL</p>  <p>22V p-p (V)</p> | <p>㋃ PAL</p>  <p>71V p-p (H)</p> | <p>㋄ PAL</p>  <p>300V p-p (V)</p> | |

1

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3

4

5

F1

[LINE RECT, REG DRIVE]

3-6. MOUNTING DIAGRAM

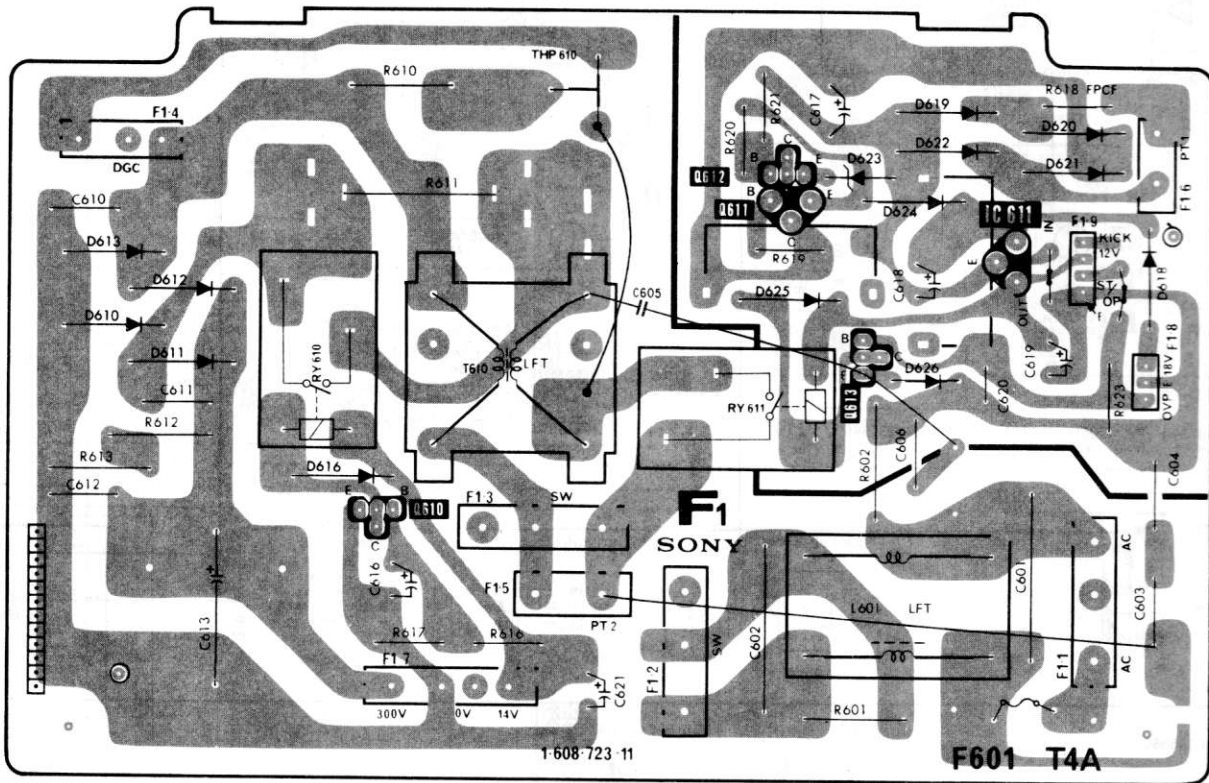
A

B

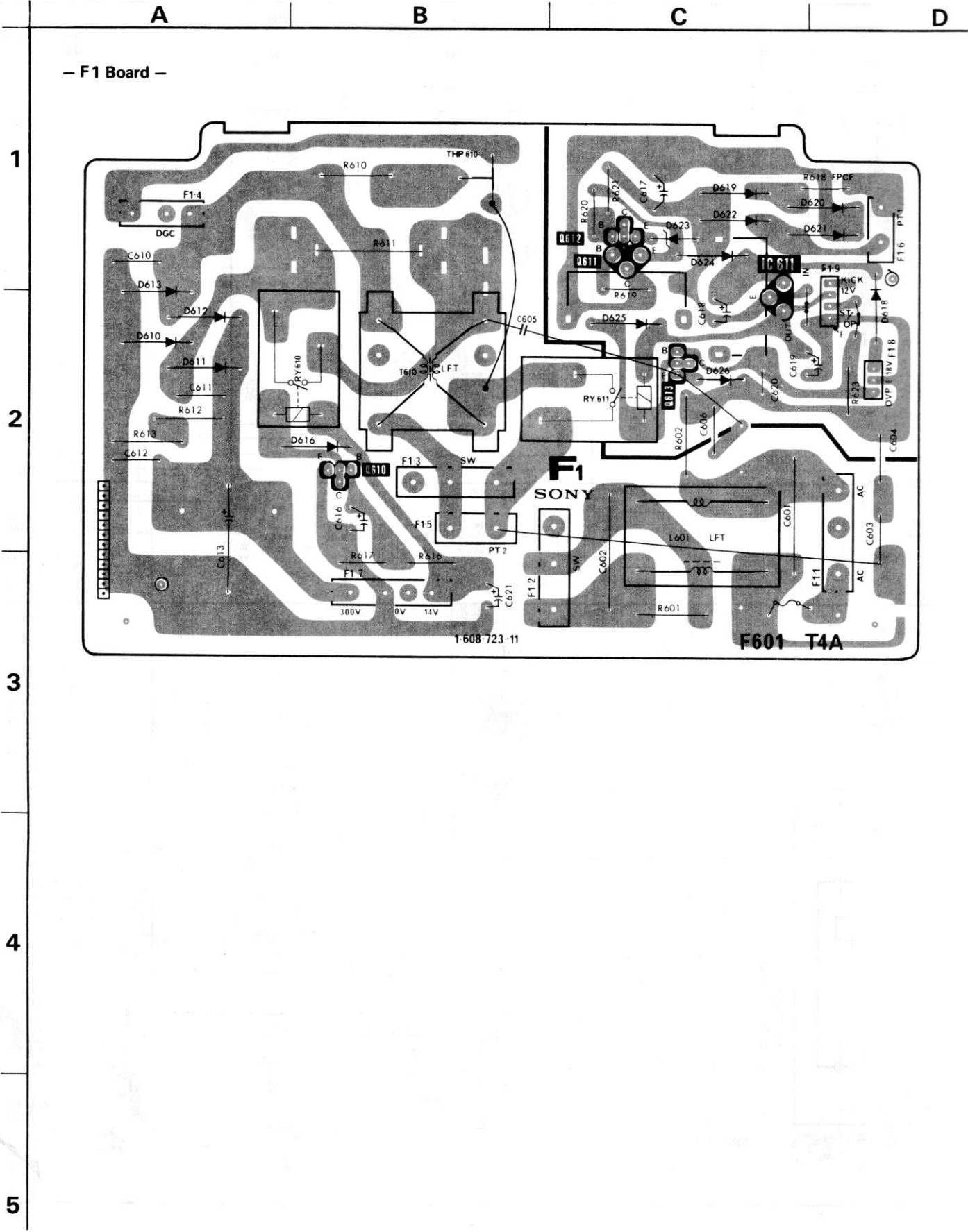
C

D

- F1 Board -



3-6. MOUNTING DIAGRAM



J1

[IN PUT/OUT PUT]

N

[INF AMP]

A

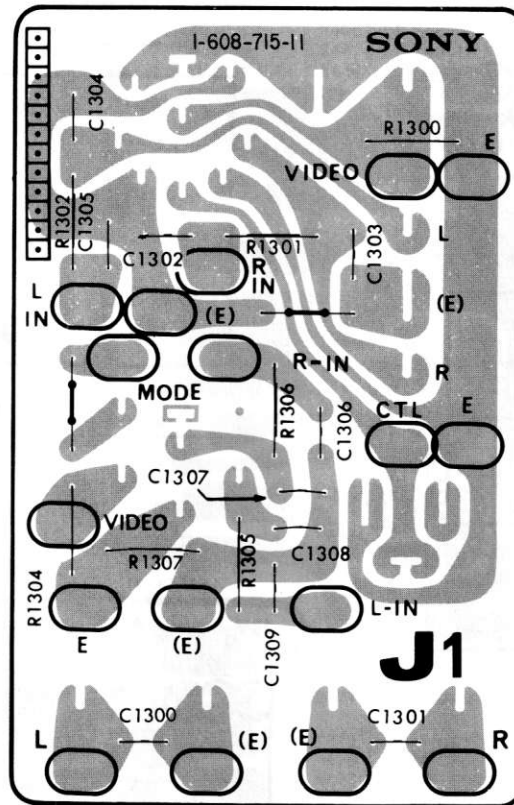
B

C

D

- J1 Board -

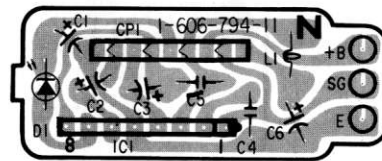
1



2

3

- N Board -



4

5

FA

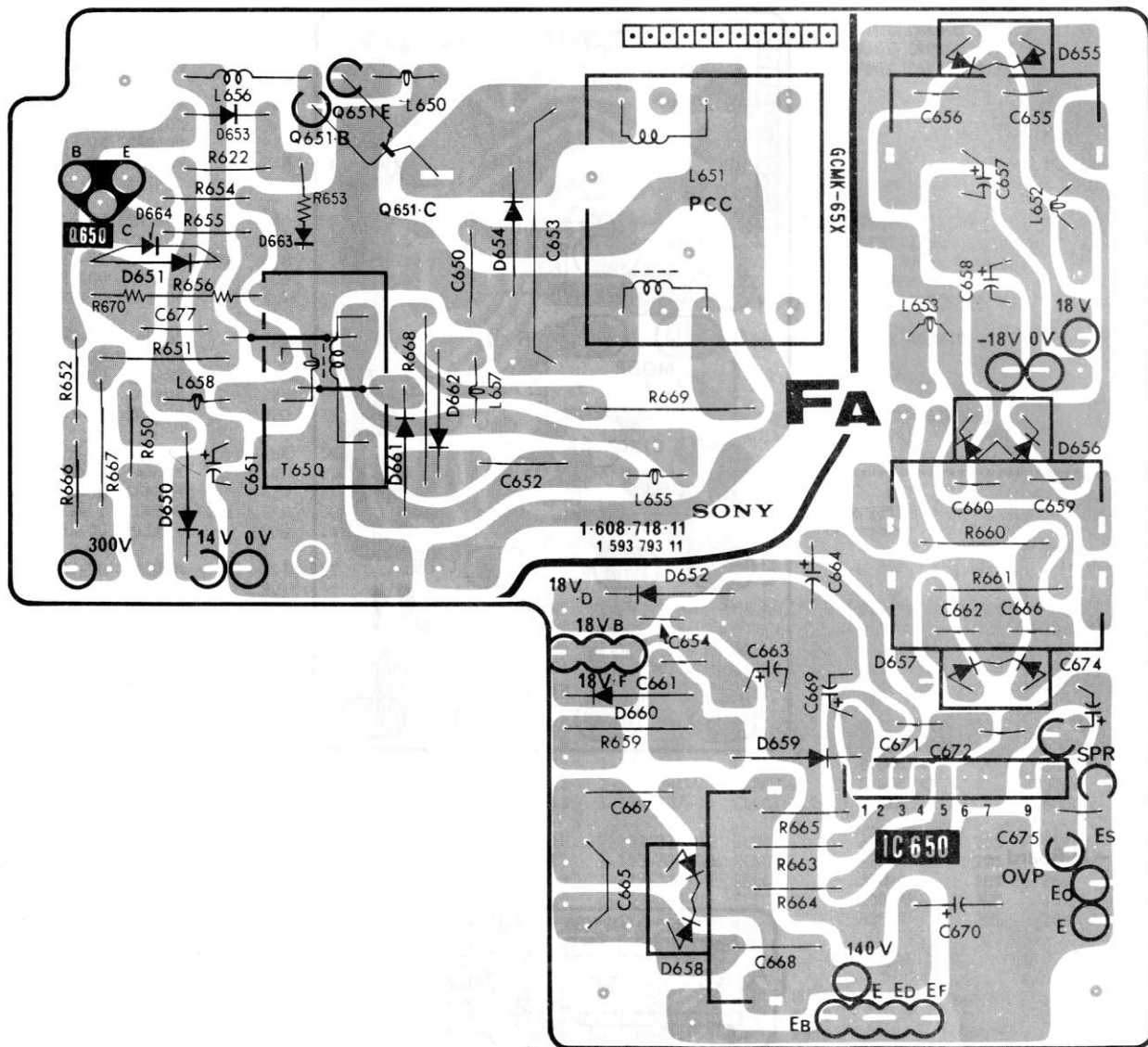
[REG]

A

B

C

D



FB

[POT]

V

[INDICATOR]

A

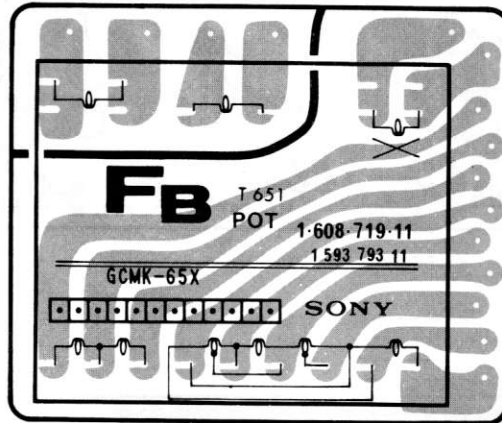
B

C

D

— FB Board —

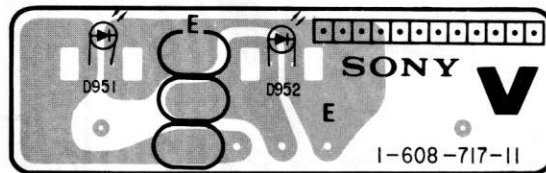
1



2

— V Board —

3



4

5

H

[USER CONTROL]

J2

[IN PUT/OUT PUT]

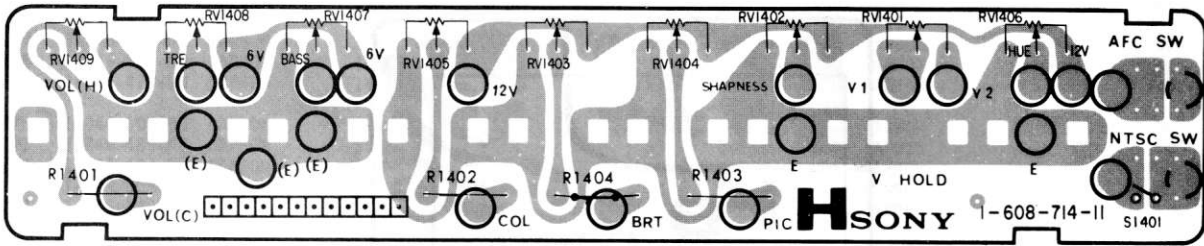
A

B

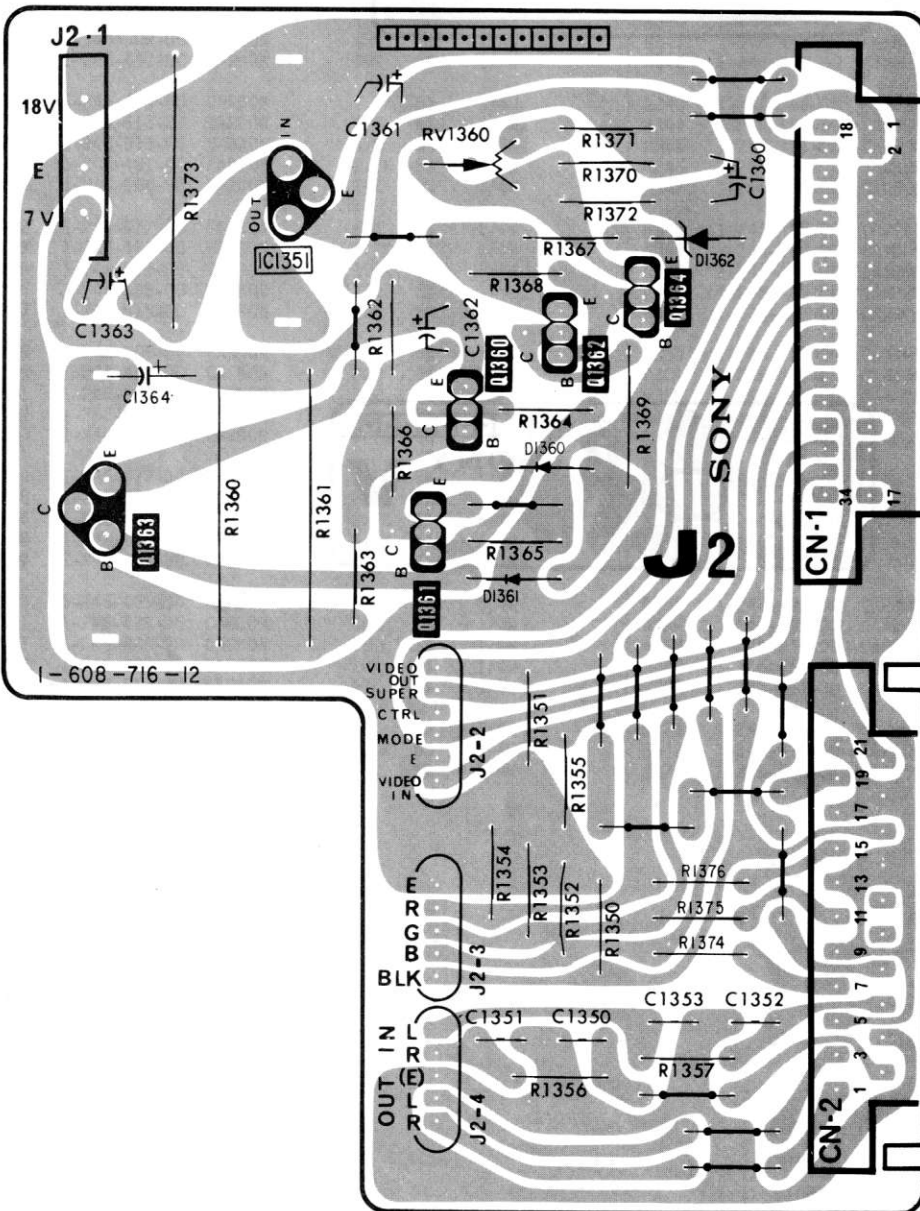
C

D

- H Board -

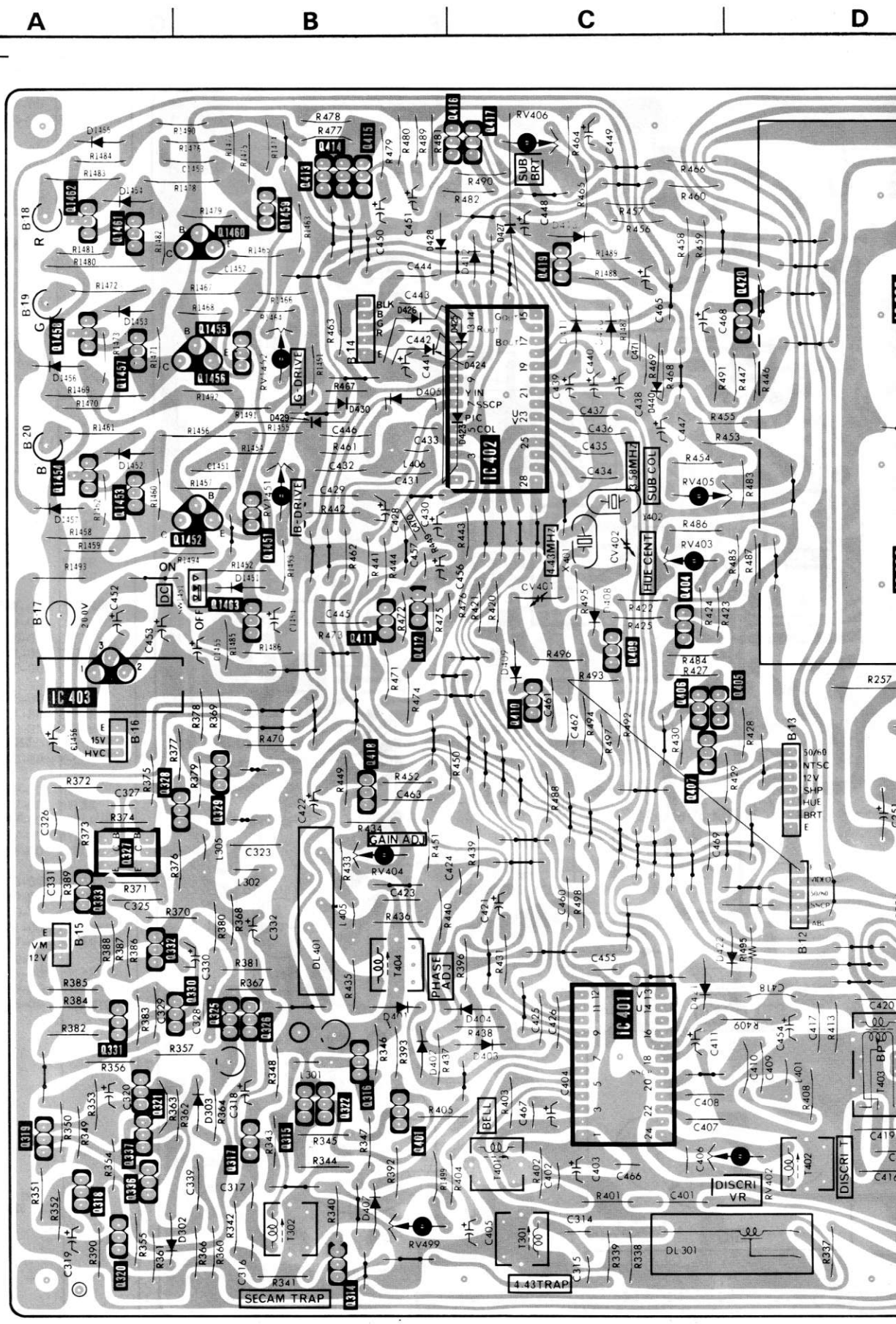


- J2 Board -



- B Board -

1
2
3
4
5



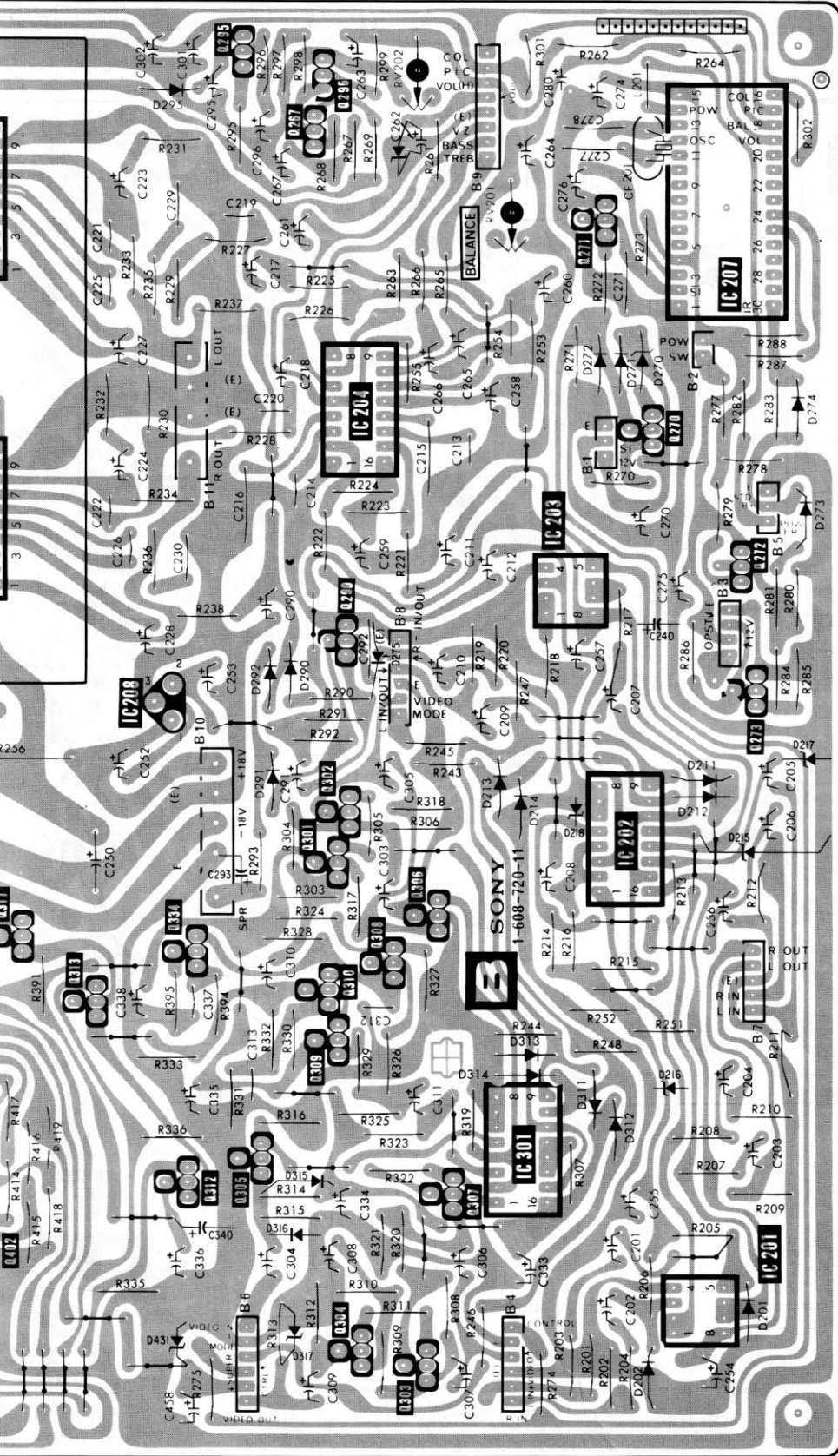
B

E

F

G

H



| Q, IC | D | ADJ |
|------------|-------------|--------------|
| 416 295 | 1455 | RV406 |
| 417 296 | 295 | RV202 |
| 413 | | |
| 414 | 267 | 1454 262 |
| 1459 | | 1454 427 262 |
| 1462 | | 428 |
| 1461 | | 413 |
| 1460 IC205 | | |
| 419 IC207 | 412 | RV201 |
| 271 | | |
| 420 | | 1453, 425 |
| 1458 | | 410 |
| 1457 | | 411 |
| 1455 | | 424 |
| 1456 | | 1456 440 |
| | | RV1452 |
| IC402 | | 423 270 |
| | | 430 272 |
| | | 405 271 |
| IC204 | | 429 |
| 270 | | 274 |
| | | 1452 |
| 1454 | | |
| 1453 | | |
| 1452 | | 1457 |
| 1451 | | 273 |
| IC206 | | RV1451 |
| | | RV405 |
| | | CV402 |
| | | RV403 |
| | | CV401 |
| 412 | | |
| 1463 | | 408 |
| 411 | | 290, 275 |
| IC403 | 409 404 | 292 |
| IC208 | 273 | 409 |
| 410 | | 217 |
| 406 | | 211 |
| 405 | | 291, 212 |
| | | 213 |
| 407 | | 214 |
| 329 | 302 | 218 |
| 418 | IC202 | 215 |
| 328 | 301 | |
| | | RV404 |
| 327 | 306 | |
| | 311 | |
| 333 | 334 | |
| | 308 | |
| | 310 | |
| | 313 | |
| 332 | 309 | 422 |
| | | 313 |
| | | 421 |
| 325 | | 401 314 216 |
| 330 | | 404, 311 |
| 331 | 403 | 403 312 |
| 326 | IC401 IC301 | 402 |
| 316 | | |
| 321 | 312 305 | 315 |
| 322 | 307 | |
| 315 | 402 | 303 |
| 401 | | 316 |
| 337 | | |
| 319 | | RV402 |
| 317 | | |
| 336 | | 201 |
| 318 | IC201 | 407 317 |
| | | 431 |
| 320 | 304 303 | RV499 |
| | 302 | 202 |
| 314 | | |
| Q, IC | D | ADJ |

D

[H OUT, V OUT, HV REG, PIN OUT
CONV OUT

D

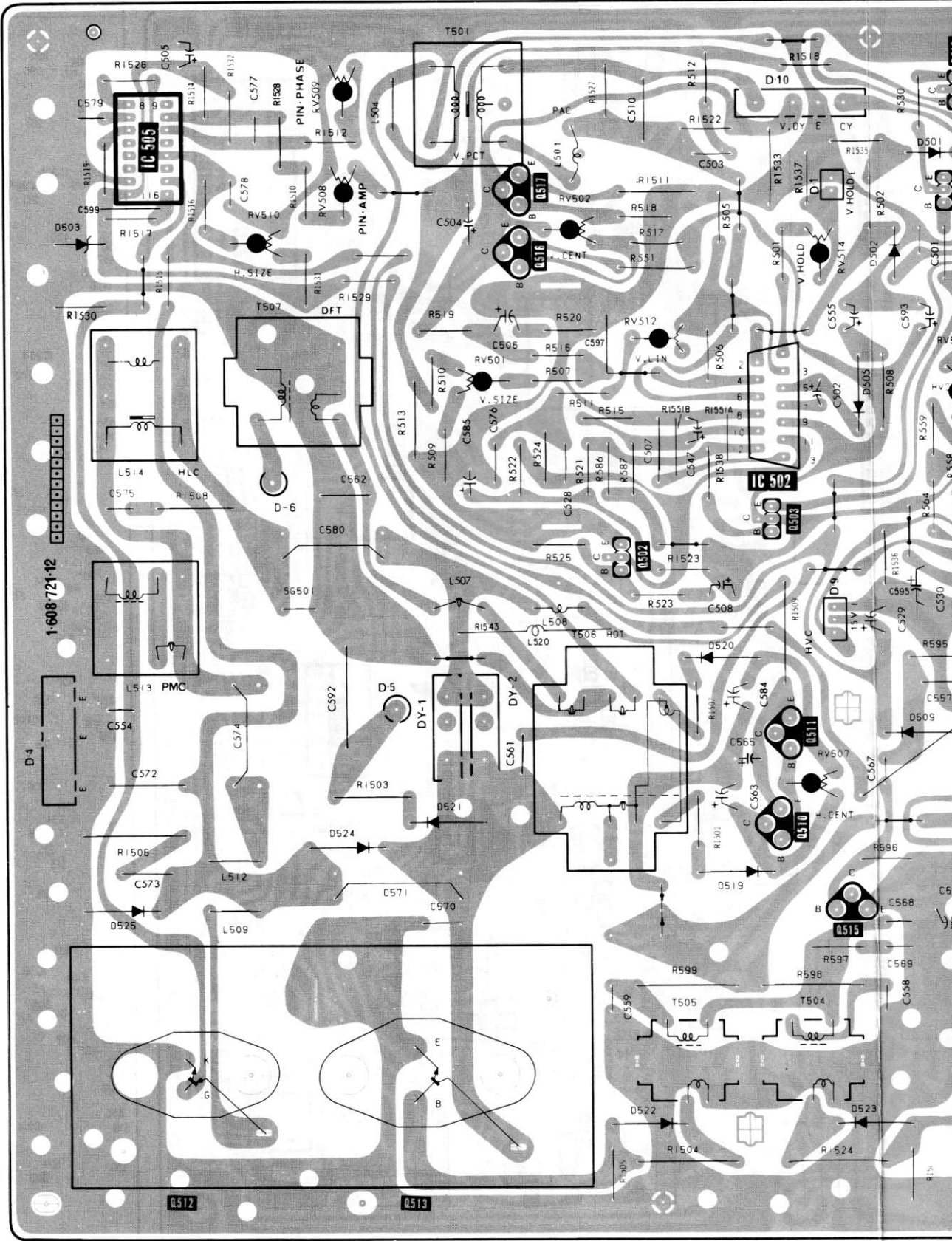
A

B

C

D

- D Board -



1

2

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5

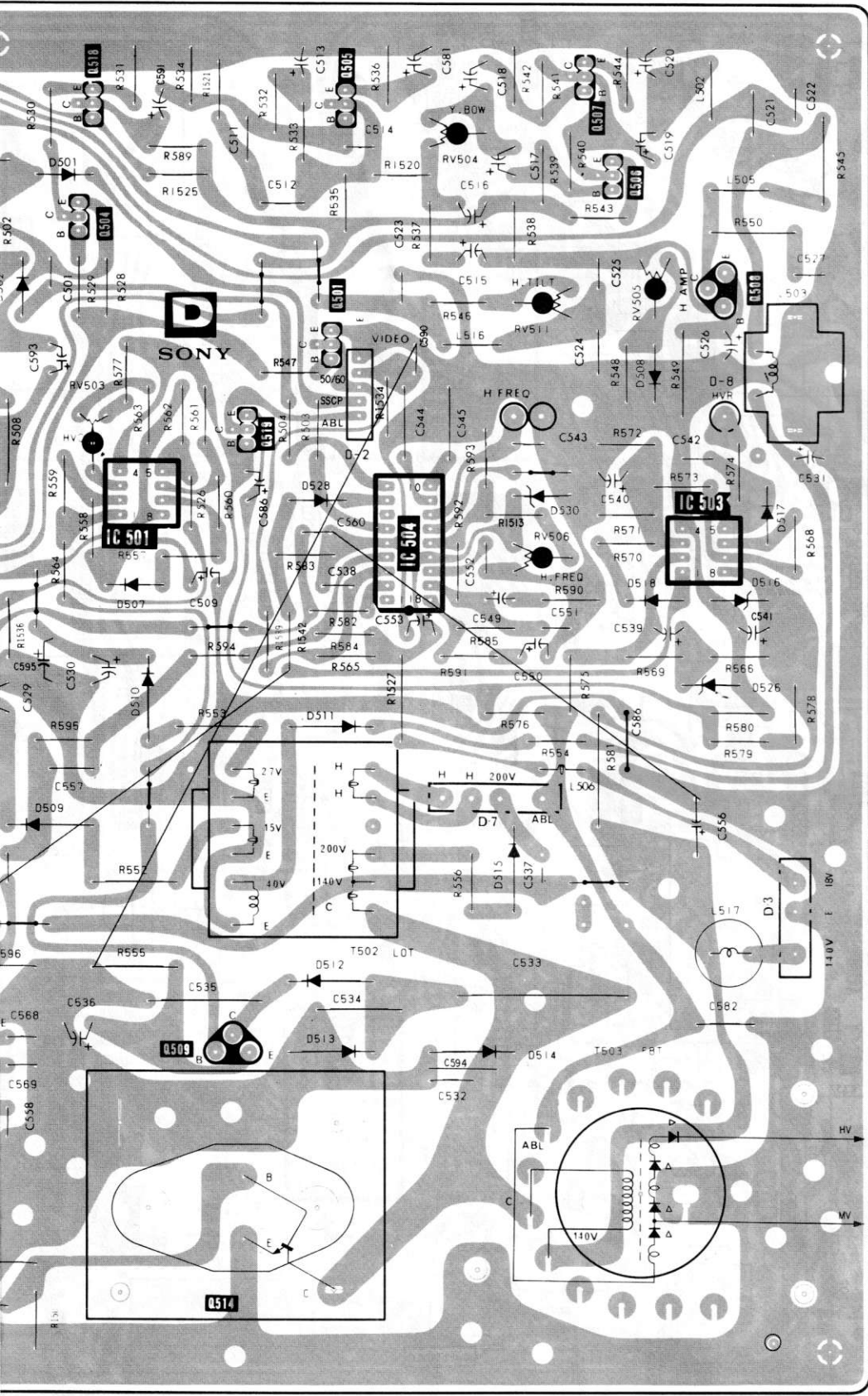
D

E

F

G

H



| Q, IC | D | ADJ |
|-------|-----|-------|
| 507 | | |
| 518 | | |
| 505 | | RV509 |
| | | RV504 |
| IC505 | 506 | |
| 517 | 504 | RV508 |
| | | RV502 |
| 516 | 508 | RV510 |
| | | RV505 |
| | | RV514 |
| | | RV511 |
| | 501 | |
| | | RV512 |
| | 508 | |
| 519 | | RV501 |
| IC502 | 505 | RV503 |
| IC501 | 530 | |
| | 528 | |
| | 517 | |
| IC504 | | |
| IC503 | | |
| 503 | 507 | |
| | 516 | |
| | 518 | |
| 502 | | |
| | 510 | |
| | 526 | |
| | 511 | |
| | 520 | |
| 511 | 509 | |
| | 515 | RV507 |
| 510 | 521 | |
| | 524 | |
| | 519 | |
| 515 | 525 | |
| 509 | 513 | |
| | 514 | |
| 512 | 514 | |
| 513 | | |
| | 522 | |
| | 523 | |
| Q, IC | D | ADJ |

SECTION 4 EXPLODED VIEWS

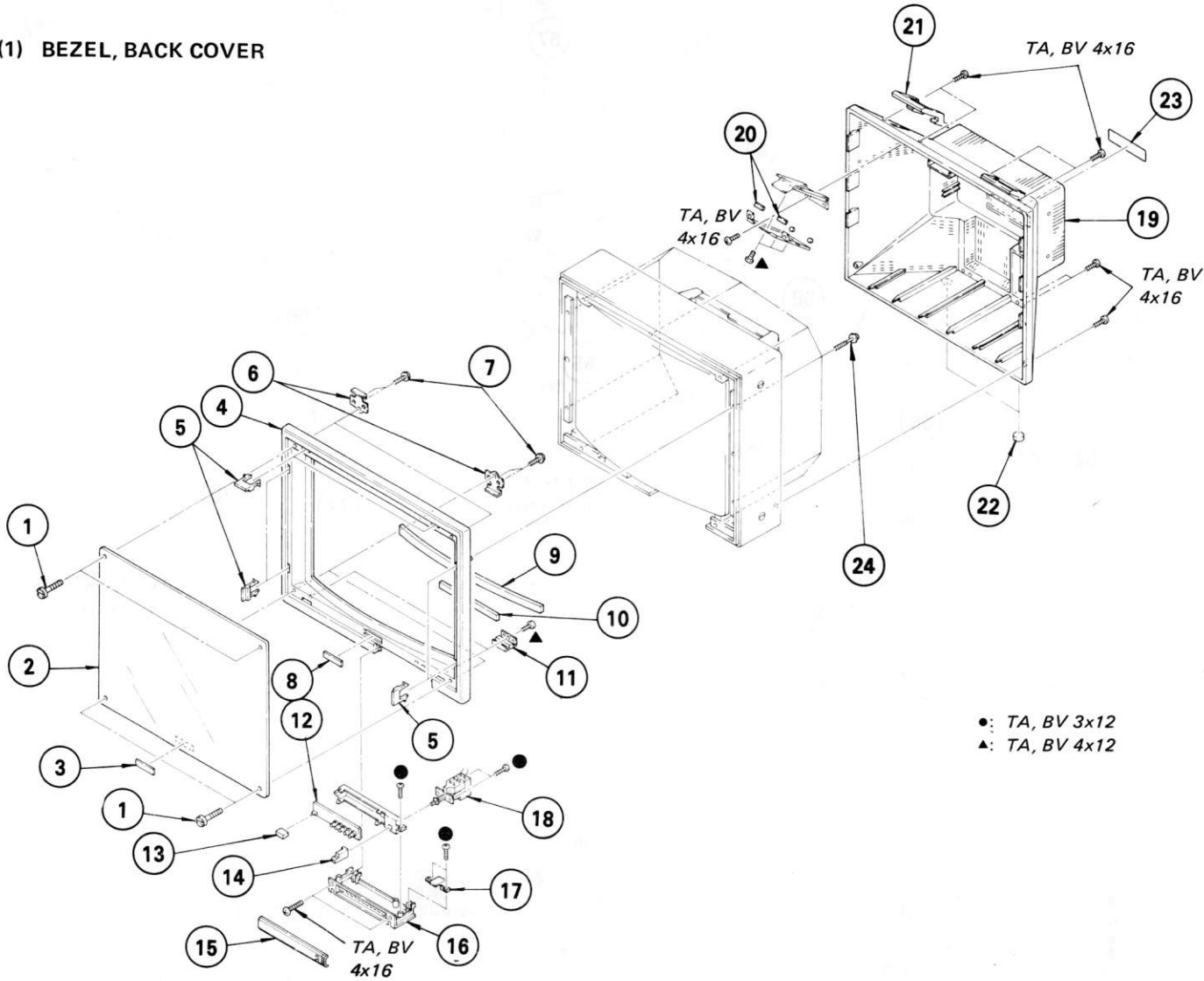
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

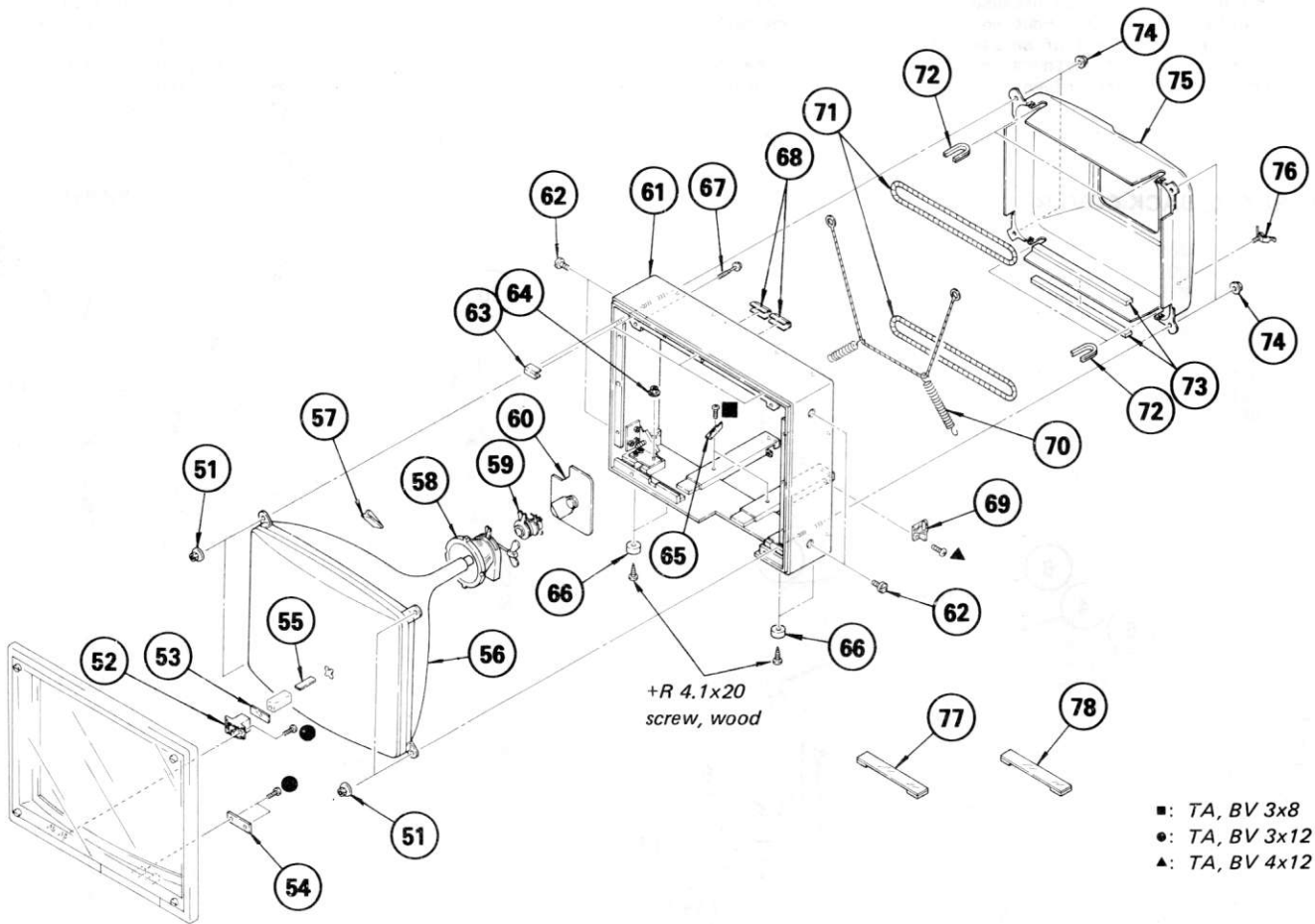
(1) BEZEL, BACK COVER



●: TA, BV 3x12
▲: TA, BV 4x12

| No. | Part No | Description | Remark | No. | Part No | Description | Remark |
|-----|---------------|---------------------------|-----------------|-----|---------------|-------------------------|----------|
| 1 | X-4336-805-0 | SCREW, ORNAMENTAL | | 13 | 4-362-903-00 | BUTTON | |
| 2 | 4-342-019-00 | FILTER | | 14 | 4-362-902-00 | KNOB, POWER | |
| 3 | X-3701-084-0 | EMBLEM (LARGE) ASSY, SONY | | 15 | 4-362-914-00 | DOOR, CONTROL | |
| 4 | X-4362-909-0 | BEZEL ASSY | 5,6,7,8,9,10,11 | 16 | X-4362-908-0 | CASE ASSY, CONTROL | |
| 5 | 4-336-815-00 | STOPPER, FILTER | | 17 | ●4-362-907-00 | INSULATOR, POWER SWITCH | |
| 6 | ●4-341-905-00 | NUT, PLATE.(A) | | 18 | ▲1-553-225-00 | SWITCH, PUSH | |
| 7 | 3-703-136-00 | SCREW, TAPPING | | 19 | X-4362-911-0 | COVER ASSY, BACK | 20,21,22 |
| 8 | 3-701-912-00 | EMBLEM, SONY, (LARGE) | | 20 | 9-911-850-XX | FELT, BACK TENSION | |
| 9 | 4-350-249-00 | CUSHION, CRT | | 21 | 4-342-020-00 | HANDLE | |
| 10 | 4-342-053-00 | CUSHION (B) | | 22 | 4-310-721-00 | CUSHION, CABINET | |
| 11 | X-4342-008-0 | RETAINER ASSY, FILTER | | 23 | ●4-362-901-00 | LABEL, MODEL NUMBER | |
| 12 | ●1-608-714-00 | H BOARD | | 24 | 4-319-520-00 | SCREW SPECIAL (+PW4x30) | |

(2) CABINET

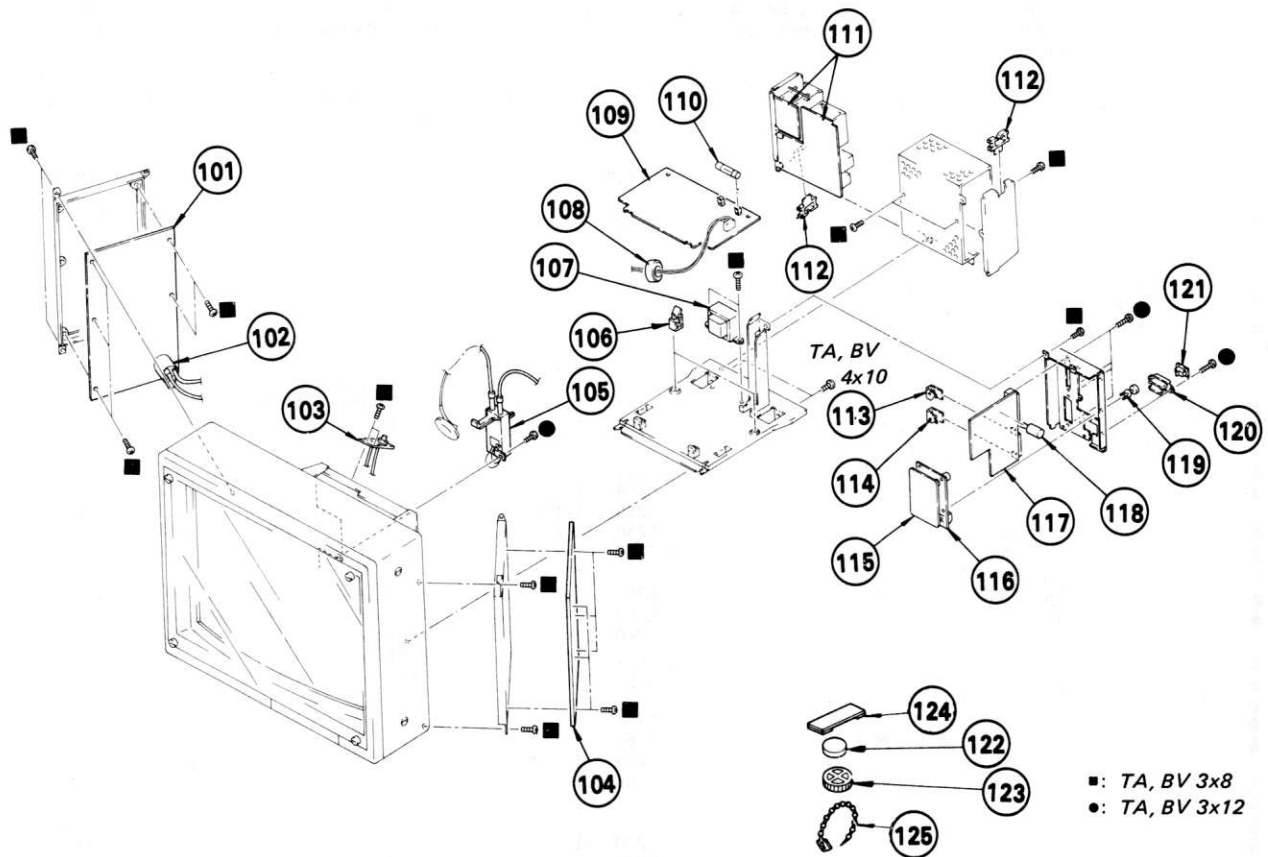


- : TA, BV 3x8
- : TA, BV 3x12
- ▲: TA, BV 4x12

| No. | Part No | Description | Remark | No. | Part No | Description | Remark |
|-----|----------------|--|-------------------------|-----|----------------|-----------------------------|--------|
| 51 | 4-330-305-00 | NUT, SPECIAL | | 65 | ▲:4-342-069-00 | GUIDE | |
| 52 | ●:4-357-119-00 | BRACKET, CATCHER, RAY | | 66 | X-4310-310-0 | FOOT ASSY | |
| 53 | ●:4-333-624-00 | FILM (N), SPECIAL | | 67 | 4-319-520-00 | SCREW, SPECIAL (+PW4X30) | |
| 54 | ●:1-608-717-00 | V BOARD | | 68 | ●:4-860-518-11 | PACKING, TWEETER | |
| 55 | ●:1-606-794-00 | N BOARD | | 69 | ●:4-342-010-00 | HINGE, LOWER | |
| 56 | ▲:8-738-407-05 | CRT (680DB22) | | 70 | 4-303-774-XX | SPRING | |
| 57 | 3-703-003-00 | SPACER, DY | | 71 | ▲:1-426-041-31 | COIL, DEGAUSSING | |
| 58 | ▲:1-451-226-00 | DEFLECTION YOKE (SY105A) | | 72 | ●:4-330-306-00 | BUSHING, CRT INSULATING | |
| 59 | 1-452-236-00 | CRT NECK ASSY (1) | | 73 | 4-310-778-00 | CUSHION (A), CRT | |
| 60 | ●:A-1330-396-A | C BOARD, COMPLETE | | 74 | 4-304-511-00 | NUT, FLANGE | |
| 61 | X-4362-910-0 | CABINET ASSY | 62,63,64,65,66 67,68 | 75 | ●:4-330-359-00 | SHIELD, CRT | |
| 62 | 4-342-017-00 | SCREW, ORNAMENTAL (Serial No. 200001~201000) | | 76 | 4-305-021-00 | SCREW (+BV 3X8), TAPPING | |
| 63 | ●:4-858-803-11 | PLATE, PREVENTION, REFLECTION | | 77 | X-4308-815-0 | PERMALLOY ASSY, CONVERGENCE | |
| 64 | 4-304-749-00 | NUT, FLANGE | | 78 | X-4306-312-0 | PERMALLOY ASSY, CONVERGENCE | |

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

(3) CHASSIS



| No. | Part No | Description | Remark | No. | Part No | Description | Remark |
|-----|----------------|-----------------------------------|--------|-----|----------------|------------------------------------|--------|
| 101 | ●:A-1345-393-A | D BOARD, COMPLETE | | 114 | ●:4-362-905-00 | NUT (A), PLATE | |
| 102 | ▲:1-439-276-21 | TRANSFORMER ASSY, FLYBACK | | 115 | ●:1-608-715-00 | J1 BOARD | |
| 103 | ▲:1-215-066-21 | RESISTOR ASSY, HIGH-VOLTAGE (MVR) | | 116 | 4-362-930-00 | TERMINAL BOARD | |
| 104 | ●:A-1135-187-A | B BOARD, COMPLETE | | 117 | ●:1-608-716-00 | J2 BOARD | |
| 105 | ▲:1-228-484-00 | RESISTOR ASSY, HIGH-VOLTAGE (HVR) | | 118 | 1-123-311-00 | CAP, ELECT 1000MF | |
| 106 | ●:3-659-681-00 | HOLDER, PC BOARD | | 119 | 4-812-134-11 | RIVET NYLON, 3.5 | |
| 107 | ▲:1-447-473-00 | TRANSFORMER, POWER | | 120 | ▲:4-357-103-00 | HOLDER, INLET | |
| 108 | 1-543-179-00 | CORE, RING | | 121 | ▲:1-561-867-00 | INLET 2P | |
| 109 | ●:A-1245-170-A | F1 BOARD, COMPLETE | | 122 | 1-452-032-00 | MAGNET DISK; 10MM ϕ | |
| 110 | ▲:1-532-350-00 | FUSE, TIME-LAG 4A | | 123 | 1-452-094-00 | MAGNET ROTATABLE DISK; 15MM ϕ | |
| 111 | ●:A-1245-171-A | F BOARD, COMPLETE | | 124 | X-4309-608-0 | PERMALLOY ASSY, CONVERGENCE | |
| 112 | ●:3-646-071-00 | HOLDER, WIRE | | 125 | 4-308-870-00 | CLIP, LEAD WIRE | |
| 113 | ●:4-362-906-00 | NUT (B), PLATE | | | | | |

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

SECTION 5 ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

* =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

* Items marked " **A** " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

* All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
* MF : μ F, PF : μ F

RESISTORS
* All resistors are in ohms
* F : nonflammable

COILS
* MMH : mH, UH : μ H

| Ref.No | Part No | Description | Remark | Ref.No | Part No | Description | Remark |
|------------------|------------------------|-------------------------------|----------|--------|--------------|---------------------|-----------|
| | A :1-1135-187-A | B BOARD, COMPLETE ***** | | C225 | 1-102-107-00 | CERAMIC 120PF | 10% 50V |
| | A :1-508-784-00 | 1P PLUG | | C226 | 1-102-107-00 | CERAMIC 120PF | 10% 50V |
| | A :1-556-106-61 | CONNECTOR, MINIATURE 1P | | C227 | 1-123-332-00 | ELECT 47MF | 20% 16V |
| | A :4-348-704-00 | HEAT SINK (A) | | C228 | 1-123-332-00 | ELECT 47MF | 20% 16V |
| CONNECTOR | | | | C229 | 1-108-389-00 | MYLAR 0.1MF | 10% 100V |
| B1 | A :1-560-123-00 | PLUG, CONNECTOR (2.5MM) 3P | | C230 | 1-108-389-00 | MYLAR 0.1MF | 10% 100V |
| B2 | A :1-560-290-00 | PLUG, CONNECTOR (2.5MM PITCH) | | C240 | 1-123-319-00 | ELECT 47MF | 20% 16V |
| B3 | A :1-560-124-00 | PLUG, CONNECTOR (2.5MM) 4P | | C250 | 1-125-193-00 | ELECT(BLOCK) 4700MF | 35V |
| B4 | A :1-560-126-00 | PLUG, CONNECTOR (2.5MM) 6P | | C251 | 1-125-193-00 | ELECT(BLOCK) 4700MF | 35V |
| B5 | A :1-560-123-00 | PLUG, CONNECTOR (2.5MM) 3P | | C252 | 1-123-332-00 | ELECT 47MF | 20% 25V |
| B6 | A :1-560-126-00 | PLUG, CONNECTOR (2.5MM) 6P | | C253 | 1-123-333-00 | ELECT 100MF | 20% 16V |
| B7 | A :1-560-125-00 | PLUG, CONNECTOR (2.5MM) 5P | | C254 | 1-123-332-00 | ELECT 47MF | 20% 16V |
| B8 | A :1-560-126-00 | PLUG, CONNECTOR (2.5MM) 6P | | C255 | 1-123-332-00 | ELECT 47MF | 20% 16V |
| B9 | A :1-560-128-00 | PLUG, CONNECTOR (2.5MM PITCH) | | C256 | 1-123-332-00 | ELECT 47MF | 20% 16V |
| B10 | A :1-508-767-00 | 5P PLUG | | C257 | 1-123-332-00 | ELECT 47MF | 20% 16V |
| B11 | A :1-508-766-00 | 4P PLUG (M) | | C258 | 1-123-333-00 | ELECT 100MF | 20% 16V |
| B12 | A :1-560-125-00 | PLUG, CONNECTOR (2.5MM) 5P | | C259 | 1-123-333-00 | ELECT 100MF | 20% 16V |
| B13 | A :1-560-127-00 | PLUG, CONNECTOR (2.5MM) 7P | | C260 | 1-123-321-00 | ELECT 220MF | 20% 16V |
| B14 | A :1-560-125-00 | PLUG, CONNECTOR (2.5MM) 5P | | C261 | 1-123-332-00 | ELECT 47MF | 20% 16V |
| B15 | A :1-560-123-00 | PLUG, CONNECTOR (2.5MM) 3P | | C262 | 1-123-380-00 | ELECT 1MF | 20% 50V |
| B16 | A :1-560-123-00 | PLUG, CONNECTOR (2.5MM) 3P | | C263 | 1-123-380-00 | ELECT 1MF | 20% 50V |
| B17 | A :1-508-784-00 | 1P PLUG | | C264 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| B18 | A :1-508-784-00 | 1P PLUG | | C265 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| B19 | A :1-508-784-00 | 1P PLUG | | C266 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| B20 | A :1-508-784-00 | 1P PLUG | | C267 | 1-123-382-00 | ELECT 3.3MF | 20% 50V |
| CAPACITOR | | | | C270 | 1-123-333-00 | ELECT 100MF | 20% 16V |
| C201 | 1-123-380-00 | ELECT 1MF | 20% 50V | C271 | 1-161-377-00 | CERAMIC 0.0047MF | 20% 50V |
| C202 | 1-123-380-00 | ELECT 1MF | 20% 50V | C274 | 1-123-332-00 | ELECT 47MF | 20% 16V |
| C203 | 1-123-318-00 | ELECT 33MF | 20% 16V | C275 | 1-123-332-00 | ELECT 47MF | 20% 16V |
| C204 | 1-123-318-00 | ELECT 33MF | 20% 16V | C276 | 1-123-380-00 | ELECT 1MF | 20% 50V |
| C205 | 1-123-379-00 | ELECT 0.47MF | 20% 50V | C277 | 1-161-313-00 | CERAMIC 150PF | 10% 50V |
| C206 | 1-123-379-00 | ELECT 0.47MF | 20% 50V | C278 | 1-161-313-00 | CERAMIC 150PF | 10% 50V |
| C207 | 1-123-380-00 | ELECT 1MF | 20% 50V | C280 | 1-123-380-00 | ELECT 1MF | 20% 50V |
| C208 | 1-123-380-00 | ELECT 1MF | 20% 50V | C290 | 1-123-299-00 | ELECT 1000MF | 20% 6.3V |
| C209 | 1-123-356-00 | ELECT 10MF | 20% 16V | C291 | 1-123-382-00 | ELECT 3.3MF | 20% 50V |
| C210 | 1-123-356-00 | ELECT 10MF | 20% 16V | C292 | 1-161-379-00 | CERAMIC 0.01MF | 20% 25V |
| C211 | 1-123-356-00 | ELECT 10MF | 20% 16V | C293 | 1-123-380-00 | ELECT 1MF | 20% 50V |
| C212 | 1-123-356-00 | ELECT 10MF | 20% 16V | C295 | 1-123-318-00 | ELECT 33MF | 20% 16V |
| C213 | 1-108-373-00 | MYLAR 0.0047MF | 10% 100V | C296 | 1-123-332-00 | ELECT 47MF | 20% 16V |
| C214 | 1-108-373-00 | MYLAR 0.0047MF | 10% 100V | C301 | 1-123-382-00 | ELECT 3.3MF | 20% 50V |
| C215 | 1-108-393-00 | MYLAR 0.22MF | 10% 100V | C302 | 1-123-382-00 | ELECT 3.3MF | 20% 50V |
| C216 | 1-108-393-00 | MYLAR 0.22MF | 10% 100V | C303 | 1-123-332-00 | ELECT 47MF | 20% 16V |
| C217 | 1-123-380-00 | ELECT 1MF | 20% 50V | C304 | 1-123-318-00 | ELECT 33MF | 20% 16V |
| C218 | 1-123-380-00 | ELECT 1MF | 20% 50V | C305 | 1-123-318-00 | ELECT 33MF | 20% 16V |
| C219 | 1-102-074-00 | CERAMIC 0.001MF | 10% 50V | C306 | 1-123-318-00 | ELECT 33MF | 20% 16V |
| C220 | 1-102-074-00 | CERAMIC 0.001MF | 10% 50V | C307 | 1-123-318-00 | ELECT 33MF | 20% 16V |
| C221 | 1-102-107-00 | CERAMIC 120PF | 10% 50V | C308 | 1-123-332-00 | ELECT 47MF | 20% 16V |
| C222 | 1-102-107-00 | CERAMIC 120PF | 10% 50V | C309 | 1-123-311-00 | ELECT 1000MF | 20% 10V |
| C223 | 1-123-299-00 | ELECT 1000MF | 20% 6.3V | C310 | 1-123-332-00 | ELECT 47MF | 20% 16V |
| C224 | 1-123-299-00 | ELECT 1000MF | 20% 6.3V | C311 | 1-123-318-00 | ELECT 33MF | 20% 16V |
| | | | | C312 | 1-108-385-00 | MYLAR 0.047MF | 10% 100V |
| | | | | C313 | 1-102-953-00 | CERAMIC 18PF | 5% 50V |
| | | | | C314 | 1-102-506-00 | CERAMIC 7PF | 0.5PF 50V |

When indicating parts by reference number, please include the board name.

| Ref.No | Part No | Description | Remark | Ref.No | Part No | Description | Remark |
|--------|--------------|-----------------|-----------|----------------|----------------|---------------------|----------|
| C315 | 1-102-506-00 | CERAMIC 7PF | 0.5PF 50V | C437 | 1-161-315-00 | CERAMIC 220PF | 10% 50V |
| C316 | 1-102-527-00 | CERAMIC 82PF | 5% 50V | C438 | 1-131-345-00 | TANTALUM 0.47MF | 10% 35V |
| C317 | 1-102-527-00 | CERAMIC 82PF | 5% 50V | C439 | 1-131-345-00 | TANTALUM 0.47MF | 10% 35V |
| C318 | 1-123-356-00 | ELECT 10MF | 20% 16V | C440 | 1-123-380-00 | ELECT 1MF | 20% 50V |
| C319 | 1-123-356-00 | ELECT 10MF | 20% 16V | C441 | 1-131-345-00 | TANTALUM 0.47MF | 10% 35V |
| C320 | 1-123-356-00 | ELECT 10MF | 20% 16V | C442 | 1-108-389-00 | MYLAR 0.1MF | 10% 100V |
| C323 | 1-161-270-00 | CERAMIC 82PF | 5% 50V | C443 | 1-108-389-00 | MYLAR 0.1MF | 10% 100V |
| C325 | 1-161-270-00 | CERAMIC 82PF | 5% 50V | C444 | 1-108-389-00 | MYLAR 0.1MF | 10% 100V |
| C326 | 1-108-385-00 | MYLAR 0.047MF | 10% 100V | C445 | 1-108-381-00 | MYLAR 0.022MF | 10% 100V |
| C327 | 1-108-385-00 | MYLAR 0.047MF | 10% 100V | C446 | 1-161-270-00 | CERAMIC 82PF | 5% 50V |
| C328 | 1-161-268-00 | CERAMIC 56PF | 5% 50V | C447 | 1-123-380-00 | ELECT 1MF | 20% 50V |
| C329 | 1-161-313-00 | CERAMIC 150PF | 10% 50V | C448 | 1-123-381-00 | ELECT 2.2MF | 20% 50V |
| C330 | 1-123-381-00 | ELECT 2.2MF | 20% 50V | C449 | 1-123-369-00 | ELECT 4.7MF | 20% 50V |
| C332 | 1-123-332-00 | ELECT 47MF | 20% 16V | C450 | 1-123-380-00 | ELECT 1MF | 20% 50V |
| C333 | 1-123-332-00 | ELECT 47MF | 20% 16V | C451 | 1-123-381-00 | ELECT 2.2MF | 20% 50V |
| C334 | 1-123-332-00 | ELECT 47MF | 20% 16V | C452 | 1-123-332-00 | ELECT 47MF | 20% 25V |
| C335 | 1-123-332-00 | ELECT 47MF | 20% 16V | C453 | 1-123-333-00 | ELECT 100MF | 20% 25V |
| C336 | 1-123-332-00 | ELECT 47MF | 20% 16V | C454 | 1-123-332-00 | ELECT 47MF | 20% 16V |
| C337 | 1-102-106-00 | CERAMIC 100PF | 10% 50V | C455 | 1-108-385-00 | MYLAR 0.047MF | 10% 100V |
| C338 | 1-123-332-00 | ELECT 47MF | 20% 16V | C456 | 1-123-332-00 | ELECT 47MF | 20% 16V |
| C339 | 1-161-313-00 | CERAMIC 150PF | 10% 50V | C457 | 1-108-385-00 | MYLAR 0.047MF | 10% 100V |
| C340 | 1-123-332-00 | ELECT 47MF | 20% 16V | C458 | 1-123-318-00 | ELECT 33MF | 20% 16V |
| C401 | 1-161-271-00 | CERAMIC 100PF | 5% 50V | C460 | 1-161-323-00 | CERAMIC 0.001MF | 10% 50V |
| C402 | 1-102-824-00 | CERAMIC 470PF | 5% 50V | C461 | 1-161-319-00 | CERAMIC 470PF | 10% 50V |
| C403 | 1-123-379-00 | ELECT 0.47MF | 20% 50V | C462 | 1-161-323-00 | CERAMIC 0.001MF | 10% 50V |
| C404 | 1-123-379-00 | ELECT 0.47MF | 20% 50V | C463 | 1-161-323-00 | CERAMIC 0.001MF | 10% 50V |
| C405 | 1-123-380-00 | ELECT 1MF | 20% 50V | C464 | 1-161-263-00 | CERAMIC 22PF | 5% 50V |
| C406 | 1-102-892-00 | CERAMIC 22PF | 5% 50V | C465 | 1-123-356-00 | ELECT 10MF | 20% 25V |
| C407 | 1-108-389-00 | MYLAR 0.1MF | 10% 100V | C466 | 1-108-379-00 | MYLAR 0.015MF | 10% 100V |
| C408 | 1-108-389-00 | MYLAR 0.1MF | 10% 100V | C467 | 1-108-379-00 | MYLAR 0.015MF | 10% 100V |
| C409 | 1-161-266-00 | CERAMIC 39PF | 5% 50V | C468 | 1-123-356-00 | ELECT 10MF | 20% 25V |
| C410 | 1-161-317-00 | CERAMIC 330PF | 10% 50V | C469 | 1-108-365-00 | MYLAR 0.001MF | 10% 100V |
| C411 | 1-123-356-00 | ELECT 10MF | 20% 16V | C470 | 1-161-268-00 | CERAMIC 56PF | 5% 50V |
| C416 | 1-161-271-00 | CERAMIC 100PF | 5% 50V | C471 | 1-161-271-00 | CERAMIC 100PF | 5% 50V |
| C417 | 1-161-270-00 | CERAMIC 82PF | 5% 50V | C1451 | 1-161-256-00 | CERAMIC 5.6PF | 10% 50V |
| C418 | 1-108-365-00 | MYLAR 0.001MF | 10% 100V | C1452 | 1-161-256-00 | CERAMIC 5.6PF | 10% 50V |
| C419 | 1-161-271-00 | CERAMIC 100PF | 5% 50V | C1453 | 1-161-256-00 | CERAMIC 5.6PF | 10% 50V |
| C420 | 1-161-268-00 | CERAMIC 56PF | 5% 50V | C1454 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| C421 | 1-123-381-00 | ELECT 2.2MF | 20% 50V | C1455 | 1-123-332-00 | ELECT 47MF | 20% 16V |
| C422 | 1-123-380-00 | ELECT 1MF | 20% 50V | C1456 | 1-121-759-00 | ELECT 4.7MF | 250V |
| C423 | 1-108-389-00 | MYLAR 0.1MF | 10% 100V | <u>FILTER</u> | | | |
| C424 | 1-108-377-00 | MYLAR 0.01MF | 10% 100V | CF201 | 1-527-476-00 | OSCILLATOR, CERAMIC | |
| C425 | 1-108-377-00 | MYLAR 0.01MF | 10% 100V | <u>TRIMMER</u> | | | |
| C426 | 1-108-377-00 | MYLAR 0.01MF | 10% 100V | CV401 | 1-141-181-11 | CAP, TRIMMER | |
| C428 | 1-123-286-00 | ELECT 0.33MF | 20% 50V | CV402 | 1-141-181-11 | CAP, TRIMMER | |
| C429 | 1-161-323-00 | CERAMIC 0.001MF | 10% 50V | <u>DIODE</u> | | | |
| C430 | 1-123-369-00 | ELECT 4.7MF | 20% 50V | D201 | =>8-719-911-19 | DIODE 1SS119 | |
| C431 | 1-161-260-00 | CERAMIC 12PF | 5% 50V | D202 | =>8-719-911-19 | DIODE 1SS119 | |
| C432 | 1-161-271-00 | CERAMIC 100PF | 5% 50V | D211 | =>8-719-911-19 | DIODE 1SS119 | |
| C433 | 1-108-377-00 | MYLAR 0.01MF | 10% 100V | D212 | =>8-719-911-19 | DIODE 1SS119 | |
| C434 | 1-108-389-00 | MYLAR 0.1MF | 10% 100V | D213 | =>8-719-911-19 | DIODE 1SS119 | |
| C435 | 1-108-389-00 | MYLAR 0.1MF | 10% 100V | | | | |
| C436 | 1-161-315-00 | CERAMIC 220PF | 10% 50V | | | | |

When indicating parts by reference number, please include the board name.

B

| Ref.No | Part No | Description | Remark | Ref.No | Part No | Description | Remark |
|--------|----------------|-----------------|--------|-------------------|----------------|----------------------|--------|
| D214 | =>8-719-911-19 | DIODE 1SS119 | | D1454 | =>8-719-911-19 | DIODE 1SS119 | |
| D215 | 8-719-100-66 | DIODE RD12E-B3 | | D1455 | =>8-719-911-19 | DIODE 1SS119 | |
| D216 | 8-719-100-66 | DIODE RD12E-B3 | | D1456 | =>8-719-911-19 | DIODE 1SS119 | |
| D217 | 8-719-100-66 | DIODE RD12E-B3 | | D1457 | =>8-719-911-19 | DIODE 1SS119 | |
| D218 | 8-719-100-66 | DIODE RD12E-B3 | | | | | |
| D262 | 8-719-100-36 | DIODE RD5.6E-B3 | | <u>DELAY LINE</u> | | | |
| D270 | 8-719-102-90 | DIODE RD10E-N2 | | DL301 | 1-415-274-00 | DELAY LINE, Y | |
| D271 | =>8-719-911-19 | DIODE 1SS119 | | DL401 | 1-415-122-31 | DELAY LINE | |
| D272 | =>8-719-911-19 | DIODE 1SS119 | | <u>IC</u> | | | |
| D273 | =>8-719-911-19 | DIODE 1SS119 | | IC201 | 8-759-145-58 | IC UPC4558C | |
| D274 | =>8-719-911-19 | DIODE 1SS119 | | IC202 | 8-759-240-52 | IC TC4052BP | |
| D275 | =>8-719-911-19 | DIODE 1SS119 | | IC203 | 8-759-145-58 | IC UPC4558C | |
| D290 | =>8-719-911-19 | DIODE 1SS119 | | IC204 | 8-759-276-30 | IC TA7630P | |
| D291 | =>8-719-911-19 | DIODE 1SS119 | | IC205 | 8-759-111-88 | IC UPC1188H | |
| D292 | =>8-719-911-19 | DIODE 1SS119 | | IC206 | 8-759-111-88 | IC UPC1188H | |
| D295 | =>8-719-911-19 | DIODE 1SS119 | | IC207 | 8-759-600-03 | IC M50120P | |
| D302 | =>8-719-911-19 | DIODE 1SS119 | | IC208 | 8-759-178-12 | IC UPC78L12 | |
| D303 | =>8-719-911-19 | DIODE 1SS119 | | IC301 | 8-759-240-52 | IC TC4052BP | |
| D311 | =>8-719-911-19 | DIODE 1SS119 | | IC401 | 6-066-720-10 | IC TDA3590 | |
| D312 | =>8-719-911-19 | DIODE 1SS119 | | IC402 | 6-066-720-60 | IC TDA3562A | |
| D313 | =>8-719-911-19 | DIODE 1SS119 | | IC403 | =>8-759-700-06 | IC NJM7812B | |
| D314 | =>8-719-911-19 | DIODE 1SS119 | | <u>COIL</u> | | | |
| D315 | =>8-719-911-19 | DIODE 1SS119 | | L201 | 1-407-488-00 | MICRO INDUCTOR 470UH | |
| D316 | =>8-719-911-19 | DIODE 1SS119 | | L301 | 1-407-688-00 | MICRO INDUCTOR 3.9UH | |
| D317 | 8-719-100-66 | DIODE RD12E-B3 | | L302 | 1-407-695-00 | MICRO INDUCTOR 15UH | |
| D401 | =>8-719-911-19 | DIODE 1SS119 | | L305 | 1-407-705-00 | MICRO INDUCTOR 100UH | |
| D402 | =>8-719-911-19 | DIODE 1SS119 | | L401 | 1-407-189-XX | MICRO INDUCTOR 8.2UH | |
| D403 | =>8-719-911-19 | DIODE 1SS119 | | L405 | 1-407-189-XX | MICRO INDUCTOR 8.2UH | |
| D404 | =>8-719-911-19 | DIODE 1SS119 | | L406 | 1-407-695-00 | MICRO INDUCTOR 15UH | |
| D405 | =>8-719-911-19 | DIODE 1SS119 | | <u>TRANSISTOR</u> | | | |
| D407 | =>8-719-911-19 | DIODE 1SS119 | | Q267 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| D408 | =>8-719-911-19 | DIODE 1SS119 | | Q270 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| D409 | =>8-719-911-19 | DIODE 1SS119 | | Q271 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| D410 | =>8-719-911-19 | DIODE 1SS119 | | Q272 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| D411 | =>8-719-911-19 | DIODE 1SS119 | | Q273 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| D412 | =>8-719-911-19 | DIODE 1SS119 | | Q290 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| D413 | =>8-719-911-19 | DIODE 1SS119 | | Q295 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| D421 | =>8-719-911-19 | DIODE 1SS119 | | Q296 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| D422 | =>8-719-911-19 | DIODE 1SS119 | | Q301 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| D423 | =>8-719-911-19 | DIODE 1SS119 | | Q302 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| D424 | =>8-719-911-19 | DIODE 1SS119 | | Q303 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| D425 | =>8-719-911-19 | DIODE 1SS119 | | Q304 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| D426 | =>8-719-911-19 | DIODE 1SS119 | | Q305 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| D427 | =>8-719-911-19 | DIODE 1SS119 | | Q306 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| D428 | =>8-719-911-19 | DIODE 1SS119 | | Q307 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| D429 | =>8-719-911-19 | DIODE 1SS119 | | Q308 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| D430 | =>8-719-911-19 | DIODE 1SS119 | | Q309 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| D431 | 8-719-100-70 | DIODE RD15E-B1 | | Q310 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| D440 | =>8-719-911-19 | DIODE 1SS119 | | Q311 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| D441 | =>8-719-911-19 | DIODE 1SS119 | | Q312 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| D1451 | =>8-719-911-19 | DIODE 1SS119 | | | | | |
| D1452 | =>8-719-911-19 | DIODE 1SS119 | | | | | |
| D1453 | =>8-719-911-19 | DIODE 1SS119 | | | | | |

When indicating parts by reference number, please include the board name.

| Ref.No | Part No | Description | Remark | Ref.No | Part No | Description | Remark |
|--------|--------------|--------------------|--------|--------|--------------|--------------------|--------|
| Q313 | 8-729-178-54 | TRANSISTOR 2SC2785 | | Q1463 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q314 | 8-729-117-54 | TRANSISTOR 2SA1175 | | | | RESISTOR | |
| Q315 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R201 | 1-246-537-00 | CARBON 470K 5% | 1/4W |
| Q316 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R202 | 1-246-537-00 | CARBON 470K 5% | 1/4W |
| Q317 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R203 | 1-246-473-00 | CARBON 1K 5% | 1/4W |
| Q318 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R204 | 1-246-473-00 | CARBON 1K 5% | 1/4W |
| Q319 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R205 | 1-246-521-00 | CARBON 100K 5% | 1/4W |
| Q320 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R206 | 1-246-521-00 | CARBON 100K 5% | 1/4W |
| Q321 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R207 | 1-246-469-00 | CARBON 680 5% | 1/4W |
| Q322 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R208 | 1-246-469-00 | CARBON 680 5% | 1/4W |
| Q325 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R209 | 1-246-505-00 | CARBON 22K 5% | 1/4W |
| Q326 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R210 | 1-246-505-00 | CARBON 22K 5% | 1/4W |
| Q327 | 8-765-222-20 | TRANSISTOR 2SC1963 | | R211 | 1-246-507-00 | CARBON 27K 5% | 1/4W |
| Q328 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R212 | 1-246-507-00 | CARBON 27K 5% | 1/4W |
| Q329 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R213 | 1-246-521-00 | CARBON 100K 5% | 1/4W |
| Q330 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R214 | 1-246-521-00 | CARBON 100K 5% | 1/4W |
| Q331 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R215 | 1-246-521-00 | CARBON 100K 5% | 1/4W |
| Q332 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R216 | 1-246-521-00 | CARBON 100K 5% | 1/4W |
| Q333 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R217 | 1-246-473-00 | CARBON 1K 5% | 1/4W |
| Q334 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R218 | 1-246-473-00 | CARBON 1K 5% | 1/4W |
| Q336 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R219 | 1-246-505-00 | CARBON 22K 5% | 1/4W |
| Q337 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R220 | 1-246-505-00 | CARBON 22K 5% | 1/4W |
| Q401 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R221 | 1-246-473-00 | CARBON 1K 5% | 1/4W |
| Q402 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R222 | 1-246-473-00 | CARBON 1K 5% | 1/4W |
| Q403 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R223 | 1-246-521-00 | CARBON 100K 5% | 1/4W |
| Q404 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R224 | 1-246-521-00 | CARBON 100K 5% | 1/4W |
| Q405 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R225 | 1-246-497-00 | CARBON 10K 5% | 1/4W |
| Q406 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R226 | 1-246-497-00 | CARBON 10K 5% | 1/4W |
| Q407 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R227 | 1-246-465-00 | CARBON 470 5% | 1/4W |
| Q409 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R228 | 1-246-465-00 | CARBON 470 5% | 1/4W |
| Q410 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R229 | 1-246-507-00 | CARBON 27K 5% | 1/4W |
| Q411 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R230 | 1-246-507-00 | CARBON 27K 5% | 1/4W |
| Q412 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R231 | 1-246-421-00 | CARBON 6.8 5% | 1/4W |
| Q413 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R232 | 1-246-421-00 | CARBON 6.8 5% | 1/4W |
| Q414 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R233 | 1-246-463-00 | CARBON 390 5% | 1/4W |
| Q415 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R234 | 1-246-463-00 | CARBON 390 5% | 1/4W |
| Q416 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R235 | 1-211-403-00 | CARBON 5.6 5% | 1/8W F |
| Q417 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R236 | 1-211-403-00 | CARBON 5.6 5% | 1/8W F |
| Q418 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R237 | 1-246-497-00 | CARBON 10K 5% | 1/4W |
| Q419 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R238 | 1-246-497-00 | CARBON 10K 5% | 1/4W |
| Q420 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R243 | 1-246-521-00 | CARBON 100K 5% | 1/4W |
| Q1451 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R244 | 1-246-521-00 | CARBON 100K 5% | 1/4W |
| Q1452 | 8-729-322-78 | TRANSISTOR 2SC2278 | | R245 | 1-246-473-00 | CARBON 1K 5% | 1/4W |
| Q1453 | 8-765-012-20 | TRANSISTOR 2SC1811 | | R246 | 1-246-473-00 | CARBON 1K 5% | 1/4W |
| Q1454 | 8-729-900-17 | TRANSISTOR BF423 | | R247 | 1-246-513-00 | CARBON 47K 5% | 1/4W |
| Q1455 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R248 | 1-246-513-00 | CARBON 47K 5% | 1/4W |
| Q1456 | 8-729-322-78 | TRANSISTOR 2SC2278 | | R251 | 1-246-477-00 | CARBON 1.5K 5% | 1/4W |
| Q1457 | 8-765-012-20 | TRANSISTOR 2SC1811 | | R252 | 1-246-477-00 | CARBON 1.5K 5% | 1/4W |
| Q1458 | 8-729-900-17 | TRANSISTOR BF423 | | R253 | 1-246-477-00 | CARBON 1.5K 5% | 1/4W |
| Q1459 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R254 | 1-246-477-00 | CARBON 1.5K 5% | 1/4W |
| Q1460 | 8-729-322-78 | TRANSISTOR 2SC2278 | | R255 | 1-246-487-00 | CARBON 3.9K 5% | 1/4W |
| Q1461 | 8-765-012-20 | TRANSISTOR 2SC1811 | | R256 | 1-215-075-00 | METAL 0.47 5% | 2W F |
| Q1462 | 8-729-900-17 | TRANSISTOR BF423 | | | | | |

When indicating parts by reference number, please include the board name.

B

| Ref.No | Part No | Description | | | Remark | Ref.No | Part No | Description | | | Remark | |
|--------|--------------|-------------|------|----|--------|--------|---------|--------------|--------|------|--------|------|
| R257 | 1-215-075-00 | METAL | 0.47 | 5% | 2W | F | R318 | 1-246-501-00 | CARBON | 15K | 5% | 1/4W |
| R261 | 1-246-497-00 | CARBON | 10K | 5% | 1/4W | | R319 | 1-246-521-00 | CARBON | 100K | 5% | 1/4W |
| R262 | 1-246-485-00 | CARBON | 3.3K | 5% | 1/4W | | R320 | 1-246-513-00 | CARBON | 47K | 5% | 1/4W |
| R263 | 1-246-497-00 | CARBON | 10K | 5% | 1/4W | | R321 | 1-246-501-00 | CARBON | 15K | 5% | 1/4W |
| R264 | 1-246-491-00 | CARBON | 5.6K | 5% | 1/4W | | R322 | 1-246-521-00 | CARBON | 100K | 5% | 1/4W |
| R265 | 1-246-497-00 | CARBON | 10K | 5% | 1/4W | | R323 | 1-246-497-00 | CARBON | 10K | 5% | 1/4W |
| R266 | 1-246-497-00 | CARBON | 10K | 5% | 1/4W | | R324 | 1-246-477-00 | CARBON | 1.5K | 5% | 1/4W |
| R267 | 1-246-505-00 | CARBON | 22K | 5% | 1/4W | | R325 | 1-246-501-00 | CARBON | 15K | 5% | 1/4W |
| R268 | 1-246-521-00 | CARBON | 100K | 5% | 1/4W | | R326 | 1-246-491-00 | CARBON | 5.6K | 5% | 1/4W |
| R269 | 1-246-473-00 | CARBON | 1K | 5% | 1/4W | | R327 | 1-246-467-00 | CARBON | 560 | 5% | 1/4W |
| R270 | 1-246-505-00 | CARBON | 22K | 5% | 1/4W | | R328 | 1-246-537-00 | CARBON | 470K | 5% | 1/4W |
| R271 | 1-246-485-00 | CARBON | 3.3K | 5% | 1/4W | | R329 | 1-246-449-00 | CARBON | 100 | 5% | 1/4W |
| R272 | 1-246-497-00 | CARBON | 10K | 5% | 1/4W | | R330 | 1-246-483-00 | CARBON | 2.7K | 5% | 1/4W |
| R273 | 1-246-505-00 | CARBON | 22K | 5% | 1/4W | | R331 | 1-246-489-00 | CARBON | 4.7K | 5% | 1/4W |
| R274 | 1-246-449-00 | CARBON | 100 | 5% | 1/4W | | R332 | 1-246-483-00 | CARBON | 2.7K | 5% | 1/4W |
| R275 | 1-246-449-00 | CARBON | 100 | 5% | 1/4W | | R333 | 1-246-461-00 | CARBON | 330 | 5% | 1/4W |
| R277 | 1-246-473-00 | CARBON | 1K | 5% | 1/4W | | R334 | 1-246-461-00 | CARBON | 330 | 5% | 1/4W |
| R278 | 1-246-505-00 | CARBON | 22K | 5% | 1/4W | | R335 | 1-246-473-00 | CARBON | 1K | 5% | 1/4W |
| R279 | 1-246-521-00 | CARBON | 100K | 5% | 1/4W | | R336 | 1-246-473-00 | CARBON | 1K | 5% | 1/4W |
| R280 | 1-246-505-00 | CARBON | 22K | 5% | 1/4W | | R337 | 1-246-477-00 | CARBON | 1.5K | 5% | 1/4W |
| R281 | 1-246-477-00 | CARBON | 1.5K | 5% | 1/4W | | R338 | 1-246-477-00 | CARBON | 1.5K | 5% | 1/4W |
| R282 | 1-246-477-00 | CARBON | 1.5K | 5% | 1/4W | | R339 | 1-246-457-00 | CARBON | 220 | 5% | 1/4W |
| R283 | 1-246-477-00 | CARBON | 1.5K | 5% | 1/4W | | R340 | 1-246-485-00 | CARBON | 3.3K | 5% | 1/4W |
| R284 | 1-246-509-00 | CARBON | 33K | 5% | 1/4W | | R341 | 1-246-451-00 | CARBON | 120 | 5% | 1/4W |
| R285 | 1-246-497-00 | CARBON | 10K | 5% | 1/4W | | R342 | 1-246-443-00 | CARBON | 56 | 5% | 1/4W |
| R286 | 1-246-489-00 | CARBON | 4.7K | 5% | 1/4W | | R343 | 1-246-509-00 | CARBON | 33K | 5% | 1/4W |
| R287 | 1-246-513-00 | CARBON | 47K | 5% | 1/4W | | R344 | 1-246-509-00 | CARBON | 33K | 5% | 1/4W |
| R288 | 1-246-513-00 | CARBON | 47K | 5% | 1/4W | | R345 | 1-246-497-00 | CARBON | 10K | 5% | 1/4W |
| R290 | 1-246-481-00 | CARBON | 2.2K | 5% | 1/4W | | R346 | 1-246-497-00 | CARBON | 10K | 5% | 1/4W |
| R291 | 1-246-506-00 | CARBON | 24K | 5% | 1/4W | | R347 | 1-246-509-00 | CARBON | 33K | 5% | 1/4W |
| R292 | 1-246-517-00 | CARBON | 68K | 5% | 1/4W | | R348 | 1-246-483-00 | CARBON | 2.7K | 5% | 1/4W |
| R293 | 1-246-481-00 | CARBON | 2.2K | 5% | 1/4W | | R349 | 1-246-537-00 | CARBON | 470K | 5% | 1/4W |
| R295 | 1-246-521-00 | CARBON | 100K | 5% | 1/4W | | R350 | 1-246-477-00 | CARBON | 1.5K | 5% | 1/4W |
| R296 | 1-246-505-00 | CARBON | 22K | 5% | 1/4W | | R351 | 1-246-449-00 | CARBON | 100 | 5% | 1/4W |
| R297 | 1-246-515-00 | CARBON | 56K | 5% | 1/4W | | R352 | 1-246-483-00 | CARBON | 2.7K | 5% | 1/4W |
| R298 | 1-246-509-00 | CARBON | 33K | 5% | 1/4W | | R353 | 1-246-529-00 | CARBON | 220K | 5% | 1/4W |
| R299 | 1-246-457-00 | CARBON | 220 | 5% | 1/4W | | R354 | 1-246-475-00 | CARBON | 1.2K | 5% | 1/4W |
| R301 | 1-246-501-00 | CARBON | 15K | 5% | 1/4W | | R355 | 1-246-505-00 | CARBON | 22K | 5% | 1/4W |
| R302 | 1-246-501-00 | CARBON | 15K | 5% | 1/4W | | R356 | 1-246-501-00 | CARBON | 15K | 5% | 1/4W |
| R303 | 1-246-481-00 | CARBON | 2.2K | 5% | 1/4W | | R357 | 1-246-481-00 | CARBON | 2.2K | 5% | 1/4W |
| R304 | 1-246-477-00 | CARBON | 1.5K | 5% | 1/4W | | R360 | 1-246-497-00 | CARBON | 10K | 5% | 1/4W |
| R305 | 1-246-447-00 | CARBON | 82 | 5% | 1/4W | | R361 | 1-246-497-00 | CARBON | 10K | 5% | 1/4W |
| R306 | 1-246-483-00 | CARBON | 2.7K | 5% | 1/4W | | R362 | 1-246-505-00 | CARBON | 22K | 5% | 1/4W |
| R308 | 1-246-489-00 | CARBON | 4.7K | 5% | 1/4W | | R363 | 1-246-497-00 | CARBON | 10K | 5% | 1/4W |
| R309 | 1-246-487-00 | CARBON | 3.9K | 5% | 1/4W | | R364 | 1-246-485-00 | CARBON | 3.3K | 5% | 1/4W |
| R310 | 1-246-495-00 | CARBON | 8.2K | 5% | 1/4W | | R366 | 1-246-497-00 | CARBON | 10K | 5% | 1/4W |
| R311 | 1-246-438-00 | CARBON | 36 | 5% | 1/4W | | R367 | 1-246-483-00 | CARBON | 2.7K | 5% | 1/4W |
| R312 | 1-246-446-00 | CARBON | 75 | 5% | 1/4W | | R368 | 1-246-473-00 | CARBON | 1K | 5% | 1/4W |
| R313 | 1-246-497-00 | CARBON | 10K | 5% | 1/4W | | R369 | 1-246-469-00 | CARBON | 680 | 5% | 1/4W |
| R314 | 1-246-513-00 | CARBON | 47K | 5% | 1/4W | | R370 | 1-246-461-00 | CARBON | 330 | 5% | 1/4W |
| R315 | 1-246-501-00 | CARBON | 15K | 5% | 1/4W | | R371 | 1-246-485-00 | CARBON | 3.3K | 5% | 1/4W |
| R316 | 1-246-521-00 | CARBON | 100K | 5% | 1/4W | | R372 | 1-246-477-00 | CARBON | 1.5K | 5% | 1/4W |
| R317 | 1-246-513-00 | CARBON | 47K | 5% | 1/4W | | R373 | 1-246-473-00 | CARBON | 1K | 5% | 1/4W |

When indicating parts by reference number, please include the board name.

| Ref.No | Part No | Description | Remark | Ref.No | Part No | Description | Remark |
|--------|--------------|-------------|--------------|--------|--------------|-------------|--------------|
| R374 | 1-246-461-00 | CARBON | 330 5% 1/4W | R437 | 1-246-497-00 | CARBON | 10K 5% 1/4W |
| R375 | 1-246-505-00 | CARBON | 22K 5% 1/4W | R438 | 1-246-497-00 | CARBON | 10K 5% 1/4W |
| R376 | 1-246-479-00 | CARBON | 1.8K 5% 1/4W | R439 | 1-246-481-00 | CARBON | 2.2K 5% 1/4W |
| R377 | 1-246-467-00 | CARBON | 560 5% 1/4W | R440 | 1-246-493-00 | CARBON | 6.8K 5% 1/4W |
| R378 | 1-246-493-00 | CARBON | 6.8K 5% 1/4W | R442 | 1-246-465-00 | CARBON | 470 5% 1/4W |
| R379 | 1-246-467-00 | CARBON | 560 5% 1/4W | R443 | 1-246-545-00 | CARBON | 1M 5% 1/4W |
| R380 | 1-246-487-00 | CARBON | 3.9K 5% 1/4W | R444 | 1-246-471-00 | CARBON | 820 5% 1/4W |
| R381 | 1-246-465-00 | CARBON | 470 5% 1/4W | R446 | 1-246-504-00 | CARBON | 20K 5% 1/4W |
| R382 | 1-246-479-00 | CARBON | 1.8K 5% 1/4W | R447 | 1-246-480-00 | CARBON | 2K 5% 1/4W |
| R383 | 1-246-459-00 | CARBON | 270 5% 1/4W | R449 | 1-246-457-00 | CARBON | 220 5% 1/4W |
| R384 | 1-246-473-00 | CARBON | 1K 5% 1/4W | R450 | 1-246-497-00 | CARBON | 10K 5% 1/4W |
| R385 | 1-246-465-00 | CARBON | 470 5% 1/4W | R451 | 1-246-497-00 | CARBON | 10K 5% 1/4W |
| R386 | 1-246-497-00 | CARBON | 10K 5% 1/4W | R452 | 1-246-537-00 | CARBON | 470K 5% 1/4W |
| R387 | 1-246-497-00 | CARBON | 10K 5% 1/4W | R453 | 1-246-525-00 | CARBON | 150K 5% 1/4W |
| R388 | 1-246-497-00 | CARBON | 10K 5% 1/4W | R454 | 1-246-521-00 | CARBON | 100K 5% 1/4W |
| R389 | 1-246-497-00 | CARBON | 10K 5% 1/4W | R455 | 1-246-481-00 | CARBON | 2.2K 5% 1/4W |
| R390 | 1-246-505-00 | CARBON | 22K 5% 1/4W | R456 | 1-246-497-00 | CARBON | 10K 5% 1/4W |
| R391 | 1-246-467-00 | CARBON | 560 5% 1/4W | R457 | 1-246-504-00 | CARBON | 20K 5% 1/4W |
| R392 | 1-246-481-00 | CARBON | 2.2K 5% 1/4W | R458 | 1-246-517-00 | CARBON | 68K 5% 1/4W |
| R393 | 1-246-497-00 | CARBON | 10K 5% 1/4W | R459 | 1-246-499-00 | CARBON | 12K 5% 1/4W |
| R394 | 1-246-477-00 | CARBON | 1.5K 5% 1/4W | R460 | 1-246-501-00 | CARBON | 15K 5% 1/4W |
| R395 | 1-246-491-00 | CARBON | 5.6K 5% 1/4W | R461 | 1-246-543-00 | CARBON | 820K 5% 1/4W |
| R396 | 1-246-511-00 | CARBON | 39K 5% 1/4W | R462 | 1-246-487-00 | CARBON | 3.9K 5% 1/4W |
| R401 | 1-246-483-00 | CARBON | 2.7K 5% 1/4W | R463 | 1-246-461-00 | CARBON | 330 5% 1/4W |
| R402 | 1-246-491-00 | CARBON | 5.6K 5% 1/4W | R464 | 1-246-525-00 | CARBON | 150K 5% 1/4W |
| R403 | 1-246-513-00 | CARBON | 47K 5% 1/4W | R465 | 1-246-499-00 | CARBON | 12K 5% 1/4W |
| R404 | 1-246-513-00 | CARBON | 47K 5% 1/4W | R466 | 1-246-519-00 | CARBON | 82K 5% 1/4W |
| R405 | 1-246-533-00 | CARBON | 330K 5% 1/4W | R467 | 1-246-465-00 | CARBON | 470 5% 1/4W |
| R408 | 1-246-482-00 | CARBON | 2.4K 5% 1/4W | R468 | 1-246-524-00 | CARBON | 130K 5% 1/4W |
| R409 | 1-246-481-00 | CARBON | 2.2K 5% 1/4W | R469 | 1-246-521-00 | CARBON | 100K 5% 1/4W |
| R410 | 1-246-465-00 | CARBON | 470 5% 1/4W | R470 | 1-246-459-00 | CARBON | 270 5% 1/4W |
| R413 | 1-246-481-00 | CARBON | 2.2K 5% 1/4W | R471 | 1-246-497-00 | CARBON | 10K 5% 1/4W |
| R414 | 1-246-509-00 | CARBON | 33K 5% 1/4W | R472 | 1-246-491-00 | CARBON | 5.6K 5% 1/4W |
| R415 | 1-246-501-00 | CARBON | 15K 5% 1/4W | R473 | 1-246-467-00 | CARBON | 560 5% 1/4W |
| R416 | 1-246-521-00 | CARBON | 100K 5% 1/4W | R474 | 1-246-497-00 | CARBON | 10K 5% 1/4W |
| R417 | 1-246-509-00 | CARBON | 33K 5% 1/4W | R475 | 1-246-491-00 | CARBON | 5.6K 5% 1/4W |
| R418 | 1-246-501-00 | CARBON | 15K 5% 1/4W | R476 | 1-247-865-00 | CARBON | 27K 5% 1/6W |
| R419 | 1-246-521-00 | CARBON | 100K 5% 1/4W | R477 | 1-246-495-00 | CARBON | 8.2K 5% 1/4W |
| R420 | 1-246-497-00 | CARBON | 10K 5% 1/4W | R478 | 1-246-487-00 | CARBON | 3.9K 5% 1/4W |
| R421 | 1-246-497-00 | CARBON | 10K 5% 1/4W | R479 | 1-246-449-00 | CARBON | 100 5% 1/4W |
| R422 | 1-246-493-00 | CARBON | 6.8K 5% 1/4W | R480 | 1-246-481-00 | CARBON | 2.2K 5% 1/4W |
| R423 | 1-246-501-00 | CARBON | 15K 5% 1/4W | R481 | 1-246-457-00 | CARBON | 220 5% 1/4W |
| R424 | 1-246-507-00 | CARBON | 27K 5% 1/4W | R482 | 1-246-497-00 | CARBON | 10K 5% 1/4W |
| R425 | 1-246-513-00 | CARBON | 47K 5% 1/4W | R483 | 1-246-495-00 | CARBON | 8.2K 5% 1/4W |
| R427 | 1-246-521-00 | CARBON | 100K 5% 1/4W | R484 | 1-246-505-00 | CARBON | 22K 5% 1/4W |
| R428 | 1-246-497-00 | CARBON | 10K 5% 1/4W | R485 | 1-246-485-00 | CARBON | 3.3K 5% 1/4W |
| R429 | 1-246-521-00 | CARBON | 100K 5% 1/4W | R486 | 1-246-483-00 | CARBON | 2.7K 5% 1/4W |
| R430 | 1-246-481-00 | CARBON | 2.2K 5% 1/4W | R487 | 1-246-487-00 | CARBON | 3.9K 5% 1/4W |
| R431 | 1-246-473-00 | CARBON | 1K 5% 1/4W | R488 | 1-246-517-00 | CARBON | 68K 5% 1/4W |
| R433 | 1-246-465-00 | CARBON | 470 5% 1/4W | R489 | 1-246-445-00 | CARBON | 68 5% 1/4W |
| R434 | 1-246-461-00 | CARBON | 330 5% 1/4W | R490 | 1-246-473-00 | CARBON | 1K 5% 1/4W |
| R435 | 1-246-465-00 | CARBON | 470 5% 1/4W | R491 | 1-246-465-00 | CARBON | 470 5% 1/4W |
| R436 | 1-246-473-00 | CARBON | 1K 5% 1/4W | R492 | 1-246-489-00 | CARBON | 4.7K 5% 1/4W |

When indicating parts by reference number, please include the board name.

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| Ref.No | Part No | Description | Remark |
|--------|--------------|-------------|--------------|
| R493 | 1-246-461-00 | CARBON | 330 5% 1/4W |
| R494 | 1-246-521-00 | CARBON | 100K 5% 1/4W |
| R495 | 1-246-497-00 | CARBON | 10K 5% 1/4W |
| R496 | 1-246-485-00 | CARBON | 3.3K 5% 1/4W |
| R497 | 1-246-521-00 | CARBON | 100K 5% 1/4W |
| R498 | 1-246-465-00 | CARBON | 470 5% 1/4W |
| R499 | 1-246-479-00 | CARBON | 1.8K 5% 1/4W |
| R1451 | 1-246-483-00 | CARBON | 2.7K 5% 1/4W |
| R1452 | 1-246-477-00 | CARBON | 1.5K 5% 1/4W |
| R1453 | 1-246-493-00 | CARBON | 6.8K 5% 1/4W |
| R1454 | 1-246-475-00 | CARBON | 1.2K 5% 1/4W |
| R1455 | 1-246-485-00 | CARBON | 3.3K 5% 1/4W |
| R1456 | 1-244-929-00 | CARBON | 220K 5% 1/2W |
| R1457 | 1-246-457-00 | CARBON | 220 5% 1/4W |
| R1458 | 1-206-692-00 | METAL | 15K 5% 2W F |
| R1459 | 1-247-012-00 | CARBON | 1K 5% 1/4W F |
| R1460 | 1-246-465-00 | CARBON | 470 5% 1/4W |
| R1461 | 1-202-571-51 | COMPOSITION | 820 20% 1/2W |
| R1462 | 1-214-753-00 | METAL | 10K 1% 1/4W |
| R1463 | 1-246-483-00 | CARBON | 2.7K 5% 1/4W |
| R1464 | 1-246-495-00 | CARBON | 8.2K 5% 1/4W |
| R1465 | 1-246-475-00 | CARBON | 1.2K 5% 1/4W |
| R1466 | 1-246-485-00 | CARBON | 3.3K 5% 1/4W |
| R1467 | 1-244-929-00 | CARBON | 220K 5% 1/2W |
| R1468 | 1-246-457-00 | CARBON | 220 5% 1/4W |
| R1469 | 1-206-692-00 | METAL | 15K 5% 2W F |
| R1470 | 1-247-012-00 | CARBON | 1K 5% 1/4W F |
| R1471 | 1-246-465-00 | CARBON | 470 5% 1/4W |
| R1472 | 1-202-571-51 | COMPOSITION | 820 20% 1/2W |
| R1473 | 1-214-753-00 | METAL | 10K 1% 1/4W |
| R1474 | 1-246-483-00 | CARBON | 2.7K 5% 1/4W |
| R1475 | 1-246-496-00 | CARBON | 9.1K 5% 1/4W |
| R1476 | 1-246-475-00 | CARBON | 1.2K 5% 1/4W |
| R1477 | 1-246-485-00 | CARBON | 3.3K 5% 1/4W |
| R1478 | 1-244-929-00 | CARBON | 220K 5% 1/2W |
| R1479 | 1-246-457-00 | CARBON | 220 5% 1/4W |
| R1480 | 1-206-692-00 | METAL | 15K 5% 2W F |
| R1481 | 1-247-012-00 | CARBON | 1K 5% 1/4W F |
| R1482 | 1-246-465-00 | CARBON | 470 5% 1/4W |
| R1483 | 1-202-571-51 | COMPOSITION | 820 20% 1/2W |
| R1484 | 1-214-753-00 | METAL | 10K 1% 1/4W |
| R1485 | 1-246-496-00 | CARBON | 9.1K 5% 1/4W |
| R1486 | 1-246-473-00 | CARBON | 1K 5% 1/4W |
| R1487 | 1-246-513-00 | CARBON | 47K 5% 1/4W |
| R1488 | 1-246-529-00 | CARBON | 220K 5% 1/4W |
| R1489 | 1-246-497-00 | CARBON | 10K 5% 1/4W |
| R1490 | 1-214-788-00 | METAL | 300K 1% 1/4W |
| R1491 | 1-214-962-00 | METAL | 820K 1% 1/4W |
| R1493 | 1-214-964-00 | METAL | 1M 1% 1/4W |
| R1495 | 1-246-473-00 | CARBON | 1K 5% 1/4W |

| Ref.No | Part No | Description | Remark |
|-----------------------------------|----------------|----------------------------|-------------------|
| VARIABLE RESISTOR | | | |
| RV201 | 1-228-724-00 | RES, ADJ, CERAMIC CARBON | 10K |
| RV402 | 1-228-724-00 | RES, ADJ, CERAMIC CARBON | 10K |
| RV403 | 1-228-724-00 | RES, ADJ, CERAMIC CARBON | 10K |
| RV404 | 1-228-723-00 | RES, ADJ, CERAMIC CARBON | 4.7K |
| RV405 | 1-228-724-00 | RES, ADJ, CERAMIC CARBON | 10K |
| RV406 | 1-228-724-00 | RES, ADJ, CERAMIC CARBON | 10K |
| RV1451 | 1-228-723-00 | RES, ADJ, CERAMIC CARBON | 4.7K |
| RV1452 | 1-228-723-00 | RES, ADJ, CERAMIC CARBON | 4.7K |
| SWITCH | | | |
| SW1451 | 1-554-076-00 | SWITCH, SLIDE | |
| TRANSFORMER | | | |
| T301 | 1-409-193-00 | COIL 3.58MHZ TRAP | |
| T302 | 1-404-305-00 | COIL, IF (DISCRIT) | |
| T401 | 1-407-566-00 | COIL, VARIABLE 3.3UH | |
| T402 | 1-407-573-00 | COIL, VARIABLE 47UH | |
| T403 | 1-425-786-21 | TRANSFORMER, BANDPASS(BPT) | |
| T404 | 1-404-081-00 | TRANSFORMER, DELAY ADJUST | |
| CRYSTAL | | | |
| X401 | 1-527-789-00 | VINRATOR, CRYSTAL | 8.85MHZ |
| X402 | 1-527-853-00 | OSCILLATOR, CRYSTAL | 7.15MHZ |
| ***** | | | |
| ●:A-1245-170-A F1 BOARD, COMPLETE | | | |
| ***** | | | |
| CAPACITOR | | | |
| C601 | ▲ 1-108-745-00 | MYLAR | 0.22MF 20% 300V |
| C602 | ▲ 1-108-745-00 | MYLAR | 0.22MF 20% 300V |
| C603 | ▲ 1-161-953-00 | FILM | 0.0047MF 20% 400V |
| C604 | ▲ 1-161-738-00 | CERAMIC | 0.0047MF 20% 400V |
| C605 | ▲ 1-161-953-00 | FILM | 0.0047MF 20% 400V |
| C606 | ▲ 1-161-738-00 | CERAMIC | 0.0047MF 20% 400V |
| C610 | ▲ 1-102-085-00 | CERAMIC | 0.0047MF 500V |
| C611 | 1-102-085-00 | CERAMIC | 0.0047MF 500V |
| C612 | 1-102-085-00 | CERAMIC | 0.0047MF 500V |
| C613 | 1-125-287-00 | ELECT(BLOCK) | 430MF 400V |
| C616 | 1-123-335-00 | ELECT | 330MF 20% 25V |
| C617 | 1-123-389-00 | ELECT | 220MF 20% 100V |
| C618 | 1-123-335-00 | ELECT | 330MF 20% 25V |
| C619 | 1-123-324-00 | ELECT | 1000MF 20% 16V |
| C621 | 1-123-322-00 | ELECT | 330MF 20% 16V |
| DIODE | | | |
| D610 | 8-719-911-55 | DIODE U05G | |
| D611 | 8-719-911-55 | DIODE U05G | |
| D612 | 8-719-911-55 | DIODE U05G | |
| D613 | 8-719-911-55 | DIODE U05G | |
| D616 | =>8-719-300-45 | DIODE EM1Z | |

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

| Ref.No | Part No | Description | Remark |
|--------|----------------|------------------|--------|
| D618 | =>8-719-300-45 | DIODE EM1Z | |
| D619 | =>8-719-300-45 | DIODE EM1Z | |
| D620 | =>8-719-300-45 | DIODE EM1Z | |
| D621 | =>8-719-300-45 | DIODE EM1Z | |
| D622 | =>8-719-300-45 | DIODE EM1Z | |
| D623 | =>8-719-100-40 | DIODE RD6.8E-B1 | |
| D624 | =>8-719-300-45 | DIODE EM1Z | |
| D625 | =>8-719-300-45 | DIODE EM1Z | |
| D626 | =>8-719-920-04 | DIODE ERB12-04RK | |

FUSE

| | | | |
|------|----------------|--------------------|--|
| F601 | A 1-532-350-00 | FUSE TIME-LAG 4A | |
| | ● 1-533-087-00 | HOLDER, FUSE, F601 | |

CONNECTOR

| | | | |
|------|----------------|----------------------------|--|
| F1-1 | ● 1-506-348-XX | 3P PLUG (L) | |
| F1-2 | ● 1-506-348-XX | 3P PLUG (L) | |
| F1-3 | ● 1-506-348-XX | 3P PLUG (L) | |
| F1-4 | ● 1-508-765-00 | 3P PLUG (M) | |
| F1-5 | ● 1-506-371-00 | 2P PLUG (L) | |
| F1-6 | ● 1-508-786-00 | 2P PLUG (M) | |
| F1-7 | ● 1-508-766-00 | 4P PLUG (M) | |
| F1-8 | ● 1-560-123-00 | PLUG, CONNECTOR (2.5MM) 3P | |
| F1-9 | ● 1-560-124-00 | PLUG, CONNECTOR (2.5MM) 4P | |

IC

| | | | |
|-------|----------------|---------------------------|--|
| IC611 | =>8-759-700-06 | IC NJM7812B | |
| | ● 4-323-833-00 | HEAT SINK, PIN OUT, IC611 | |

COIL

| | | | |
|------|----------------|-------------------------|--|
| L601 | A 1-421-259-00 | COIL, LINE FILTER (LFT) | |
|------|----------------|-------------------------|--|

THERMISTOR

| | | | |
|--------|----------------|-----------------------|--|
| THP610 | A 1-806-387-00 | THERMISTOR (POSITIVE) | |
|--------|----------------|-----------------------|--|

TRANSISTOR

| | | | |
|------|----------------|--------------------------|--|
| Q610 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q611 | 8-729-323-82 | TRANSISTOR 2SD1138-02-C | |
| | ● 4-323-833-00 | HEAT SINK, PIN OUT, Q611 | |
| Q612 | =>8-729-177-43 | TRANSISTOR 2SD774 | |
| Q613 | 8-729-178-54 | TRANSISTOR 2SC2785 | |

RESISTOR

| | | | | | | |
|------|----------------|---------------|------|-----|------|---|
| R601 | A 1-202-727-00 | COMPOSITION | 4.7M | 10% | 1/2W | |
| R602 | A 1-247-289-00 | CARBON | 8.2M | 5% | 1W | |
| R610 | A 1-205-653-00 | CEMENT-COATED | 100 | 5% | 5W | |
| R611 | A 1-205-682-00 | CEMENT-COATED | 3.9 | 5% | 15W | |
| R612 | 1-244-925-00 | CARBON | 150K | 5% | 1/2W | |
| R613 | 1-244-925-00 | CARBON | 150K | 5% | 1/2W | |
| R616 | 1-246-481-00 | CARBON | 2.2K | 5% | 1/4W | |
| R617 | 1-246-493-00 | CARBON | 6.8K | 5% | 1/4W | |
| R618 | A 1-247-022-00 | CARBON | 1.8 | 5% | 1/8W | F |
| R619 | 1-213-155-00 | METAL | 10K | 5% | 1W | F |
| R620 | 1-246-497-00 | CARBON | 10K | 5% | 1/4W | |
| R621 | 1-246-493-00 | CARBON | 6.8K | 5% | 1/4W | |
| R623 | 1-246-481-00 | CARBON | 2.2K | 5% | 1/4W | |

| Ref.No | Part No | Description | Remark |
|--------------|----------------|-------------|--------|
| <u>RELAY</u> | | | |
| RY610 | A 1-515-489-00 | RELAY | |
| RY611 | A 1-515-489-00 | RELAY | |

TRANSFORMER

| | | | |
|------|----------------|--------------------------------|--|
| T610 | A 1-421-578-00 | TRANSFORMER, LINE FILTER (LFT) | |
|------|----------------|--------------------------------|--|

| | | | |
|----------------|-------------------|--|--|
| ● A-1245-171-A | F BOARD, COMPLETE | | |
| ***** | | | |

| | | | |
|----------------|------------------------------|--|--|
| ● 1-555-949-51 | CONNECTOR ASSY, MINIATURE 5P | | |
| ● 1-556-335-81 | CONNECTOR ASSY (2.5MM) 3P | | |
| ● 1-556-389-81 | CONNECTOR ASSY, MINIATURE 4P | | |
| ● 1-556-679-00 | CONNECTOR ASSY, MINIATURE 3P | | |
| ● 1-556-679-00 | CONNECTOR ASSY, MINIATURE 3P | | |

| | | | |
|----------------|-----------------------------|--|--|
| 3-701-353-00 | SPACER, MICA | | |
| 3-701-609-00 | BUSHING (B), TR | | |
| ● 4-314-938-01 | RETAINER (TO-3), TRANSISTOR | | |
| ● 4-323-833-00 | HEAT SINK, PIN OUT | | |
| ● 4-357-809-00 | RETAINER, TR | | |

CAPACITOR

| | | | | | |
|------|--------------|--------------|----------|-----|-------|
| C650 | 1-102-249-00 | CERAMIC | 680PF | 20% | 2KV |
| C652 | 1-130-909-00 | FILM | 0.16MF | 5% | 200V |
| C653 | 1-130-908-00 | FILM | 0.0039MF | 3% | 1.6KV |
| C654 | 1-108-373-00 | MYLAR | 0.0047MF | 10% | 100V |
| C655 | 1-108-373-00 | MYLAR | 0.0047MF | 10% | 100V |
| C656 | 1-108-373-00 | MYLAR | 0.0047MF | 10% | 100V |
| C657 | 1-123-348-00 | ELECT | 470MF | 20% | 35V |
| C658 | 1-123-348-00 | ELECT | 470MF | 20% | 35V |
| C659 | 1-108-373-00 | MYLAR | 0.0047MF | 10% | 100V |
| C660 | 1-108-373-00 | MYLAR | 0.0047MF | 10% | 100V |
| C661 | 1-108-373-00 | MYLAR | 0.0047MF | 10% | 100V |
| C662 | 1-108-373-00 | MYLAR | 0.0047MF | 10% | 100V |
| C663 | 1-123-348-00 | ELECT | 470MF | 20% | 35V |
| C664 | 1-123-312-00 | ELECT | 2200MF | 20% | 10V |
| C665 | 1-130-920-00 | FILM | 0.014MF | 5% | 600V |
| C666 | 1-108-373-00 | MYLAR | 0.0047MF | 10% | 100V |
| C667 | 1-129-710-00 | FILM | 0.0047MF | 10% | 630V |
| C668 | 1-129-710-00 | FILM | 0.0047MF | 10% | 630V |
| C669 | 1-123-344-00 | ELECT | 47MF | 20% | 35V |
| C670 | 1-125-294-00 | ELECT(BLOCK) | 560MF | 20% | 160V |
| C671 | 1-108-689-11 | MYLAR | 0.0056MF | 10% | 200V |
| C672 | 1-108-377-00 | MYLAR | 0.01MF | 10% | 100V |
| C674 | 1-123-332-00 | ELECT | 47MF | 20% | 16V |
| C675 | 1-108-845-00 | MYLAR | 0.047MF | 10% | 50V |
| C680 | 1-108-692-00 | MYLAR | 0.01MF | | 200V |

DIODE

| | | | |
|------|----------------|------------|--|
| D650 | =>8-719-901-93 | DIODE V19E | |
| D651 | =>8-719-901-93 | DIODE V19E | |
| D652 | =>8-719-901-93 | DIODE V19E | |

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

| Ref.No | Part No | Description | Remark |
|--------------------|----------------|---------------------------|-----------------|
| D653 | 8-719-911-19 | DIODE 1SS119 | |
| D654 | 8-719-926-20 | DIODE ERB26-20 | |
| D655 | 8-719-300-59 | DIODE CTU12S | |
| D656 | 8-719-300-58 | DIODE CTU12R | |
| D657 | 8-719-920-40 | DIODE ESAC82-004 | |
| | | | |
| D658 | 8-719-300-09 | DIODE CTU24S | |
| D659 | =>8-719-901-93 | DIODE V19E | |
| D660 | =>8-719-901-93 | DIODE V19E | |
| D661 | =>8-719-901-93 | DIODE V19E | |
| D662 | =>8-719-911-55 | DIODE U05G | |
| | | | |
| D663 | 8-719-911-19 | DIODE 1SS119 | |
| D664 | 8-719-901-40 | DIODE SIB01-02T5 | |
| | | | |
| <u>IC</u> | | | |
| IC650 | 1-235-121-00 | POWER MODULE DM-13 | |
| | | | |
| <u>COIL</u> | | | |
| L650 | 1-407-365-00 | COIL, CHOKE 0.7UH | |
| L651 | 1-421-574-00 | COIL, FERRITE CHOKE (PCC) | |
| L653 | 1-459-442-00 | COIL (WITH CORE) 15UH | |
| L655 | 1-459-403-00 | COIL (WITH CORE) 75UH | |
| L656 | 1-408-349-00 | COIL, CHOKE 1UH | |
| | | | |
| L657 | 1-407-697-00 | MICRO INDUCTOR 22UH | |
| L658 | 1-407-695-00 | MICRO INDUCTOR 15UH | |
| | | | |
| <u>TRANSISTOR</u> | | | |
| Q650 | 8-729-180-92 | TRANSISTOR 2S0809 | |
| Q651 | 8-729-300-51 | TRANSISTOR 2SC1413A-33 | |
| | | | |
| <u>RESISTOR</u> | | | |
| R650 | 1-247-020-00 | CARBON | 1 5% 1/8W F |
| R651 | 1-244-921-00 | CARBON | 100K 5% 1/2W |
| R652 | 1-214-954-00 | METAL | 390K 1% 1/4W |
| R653 | 1-214-744-00 | METAL | 4.3K 1% 1/4W |
| | | | |
| R654 | 1-214-696-51 | METAL | 43 1% 1/4W |
| R655 | 1-213-131-00 | METAL | 100 5% 1W F |
| R656 | 1-206-439-00 | METAL | 1 5% 2W F |
| R659 | 1-217-418-00 | FUSIBLE | 0.47 10% 1/2W F |
| R660 | 1-207-451-00 | WIREWOUND | 0.1 10% 1/2W |
| | | | |
| R661 | 1-207-451-00 | WIREWOUND | 0.1 10% 1/2W |
| R663 | 1-247-033-00 | CARBON | 100 5% 1/8W F |
| R664 | 1-247-033-00 | CARBON | 100 5% 1/8W F |
| R665 | 1-246-994-00 | CARBON | 680 5% 1/8W F |
| R666 | 1-214-954-00 | METAL | 390K 1% 1/4W |
| | | | |
| R667 | 1-244-921-00 | CARBON | 100K 5% 1/2W |
| R668 | 1-215-078-00 | METAL | 0.75 5% 2W F |
| R669 | 1-215-078-00 | METAL | 0.75 5% 2W F |
| R670 | 1-206-497-00 | METAL | 2.7 5% 3W F |
| R671 | 1-211-469-00 | CABON | 5.6K |
| | | | |
| <u>TRANSFORMER</u> | | | |
| T650 | 1-421-574-00 | COIL, FERRITE CHOKE (PCC) | |

| Ref.No | Part No | Description | Remark |
|------------------|----------------|------------------------------|------------------|
| T651 | A,1-421-579-00 | TRANSFORMER, FERRITE (POT) | |
| ***** | | | |
| | A:1-1330-396-A | C BOARD, COMPLETE | ***** |
| | | | |
| | 1-509-843-00 | 1P CONNECTOR ASSY | |
| | 1-526-560-41 | SOCKET ASSY, CRT | |
| | 1-551-920-00 | CONNECTOR ASSY 3P | |
| | 1-556-106-71 | CONNECTOR, MINIATURE 1P | |
| | 1-556-389-91 | CONNECTOR ASSY, MINIATURE 4P | |
| | | | |
| | 1-608-722-00 | C BOARD | |
| | | | |
| <u>CONNECTOR</u> | | | |
| B18 | 1-556-106-51 | CONNECTOR, MINIATURE 1P | |
| B19 | 1-556-106-51 | CONNECTOR, MINIATURE 1P | |
| B20 | 1-556-106-51 | CONNECTOR, MINIATURE 1P | |
| C1 | 1-506-348-XX | 3P PLUG (L) | |
| | | | |
| <u>CAPACITOR</u> | | | |
| C701 | 1-129-779-00 | FILM | 0.022MF 20% 1KV |
| C702 | 1-102-155-00 | CERAMIC | 330PF 20% 2KV |
| C703 | 1-123-383-00 | ELECT | 4.7MF 20% 100V |
| C706 | 1-102-212-00 | CERAMIC | 820PF 10% 500V |
| C707 | 1-121-759-00 | ELECT | 4.7MF 250V |
| | | | |
| C708 | 1-102-212-00 | CERAMIC | 820PF 10% 500V |
| C709 | 1-123-356-00 | ELECT | 10MF 20% 16V |
| C710 | 1-108-385-00 | MYLAR | 0.047MF 10% 100V |
| C712 | 1-101-004-00 | CERAMIC | 0.01MF 50V |
| C713 | 1-101-004-00 | CERAMIC | 0.01MF 50V |
| | | | |
| C714 | 1-101-004-00 | CERAMIC | 0.01MF 50V |
| C715 | 1-101-004-00 | CERAMIC | 0.01MF 50V |
| C716 | 1-123-356-00 | ELECT | 10MF 20% 25V |
| C717 | 1-101-004-00 | CERAMIC | 0.01MF 50V |
| C718 | 1-108-433-00 | MYLAR | 0.1MF 10% 200V |
| | | | |
| C719 | 1-102-154-00 | CERAMIC | 180PF 20% 2KV |
| | | | |
| <u>DIODE</u> | | | |
| D701 | 8-719-911-19 | DIODE 1SS119 | |
| D702 | 8-719-911-19 | DIODE 1SS119 | |
| D703 | 8-719-911-19 | DIODE 1SS119 | |
| D704 | 8-719-911-19 | DIODE 1SS119 | |
| | | | |
| <u>COIL</u> | | | |
| L701 | 1-407-705-00 | MICRO INDUCTOR 100UH | |
| L704 | 1-407-206-XX | MICRO INDUCTOR 10MMH | |
| L705 | 1-407-175-XX | MICRO INDUCTOR 330UH | |
| L706 | 1-407-175-XX | MICRO INDUCTOR 330UH | |
| | | | |
| <u>NEON LAMP</u> | | | |
| NL701 | 1-519-108-XX | LAMP, NEON ASSY | |
| NL702 | 1-519-108-XX | LAMP, NEON ASSY | |
| NL703 | 1-519-013-13 | DISCHARGE TUBE | |

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

| Ref.No | Part No | Description | Remark | Ref.No | Part No | Description | Remark | |
|--------------------------|--------------|--------------------------|--------|------------------|-----------------------------|------------------------------|--------------|---------|
| NL704 | 1-519-013-13 | DISCHARGE TUBE | | | | | | |
| <u>TRANSISTOR</u> | | | | | | | | |
| Q701 | 8-729-178-54 | TRANSISTOR 2SC2785 | | •1-608-717-00 | V BOARD | ***** | | |
| Q702 | 8-729-178-54 | TRANSISTOR 2SC2785 | | •1-555-708-00 | CONNECTOR ASSY (2.5MM) 3P | | | |
| Q703 | 8-729-178-54 | TRANSISTOR 2SC2785 | | •4-345-836-00 | HOLDER (S-2), LED | | | |
| Q704 | 8-729-322-78 | TRANSISTOR 2SC2278 | | <u>DIODE</u> | | | | |
| Q705 | 8-729-322-78 | TRANSISTOR 2SC2278 | | D951 | 8-719-102-34 | DIODE SG232D | | |
| <u>RESISTOR</u> | | | | D952 | 8-719-106-34 | DIODE SR632D | | |
| R701 | 1-202-636-35 | COMPOSITION 430K 10% | 1/2W | ***** | | | | |
| R702 | 1-202-720-00 | COMPOSITION 1.2M 10% | 1/2W | •A-1345-393-A | D BOARD, COMPLETE | ***** | | |
| R703 | 1-202-543-00 | COMPOSITION 56 10% | 1/2W | | | | | |
| R704 | 1-212-352-00 | METAL 0.22 5% | 1W | F | | | | |
| R705 | 1-202-609-00 | COMPOSITION 33K 10% | 1/2W | | | | | |
| R706 | 1-202-633-00 | COMPOSITION 330K 10% | 1/2W | •1-535-084-00 | 1P TERMINAL PIN | | | |
| R707 | 1-202-637-00 | COMPOSITION 470K 10% | 1/2W | 2-825-006-00 | SPACER, MICA | | | |
| R708 | 1-244-929-00 | COMPOSITION 220K 10% | 1/2W | 3-701-353-00 | SPACER, MICA | | | |
| R709 | 1-202-585-00 | COMPOSITION 3.3K 10% | 1/2W | 3-701-609-00 | BUSHING (B), TR | | | |
| R710 | 1-213-144-00 | METAL 1.2K 5% | 1W | F | •4-309-762-00 | RETAINER (MD-17), TRANSISTOR | | |
| R711 | 1-202-585-00 | COMPOSITION 3.3K 10% | 1/2W | | | | | |
| R712 | 1-202-585-00 | COMPOSITION 3.3K 10% | 1/2W | •4-314-938-01 | RETAINER (TO-3), TRANSISTOR | | | |
| R713 | 1-206-678-00 | METAL 3.9K 5% | 2W | 4-327-002-00 | REG HOLD | | | |
| R714 | 1-206-678-00 | METAL 3.9K 5% | 2W | F | 4-342-013-00 | SPACER, MICA | | |
| R715 | 1-246-505-00 | CARBON 22K 5% | 1/4W | <u>CAPACITOR</u> | | | | |
| R716 | 1-246-475-00 | CARBON 1.2K 5% | 1/4W | C501 | 1-108-377-00 | MYLAR 0.01MF | 10% 100V | |
| R717 | 1-246-487-00 | CARBON 3.9K 5% | 1/4W | C502 | 1-123-360-00 | ELECT 100MF | 20% 50V | |
| R718 | 1-246-457-00 | CARBON 220 5% | 1/4W | C503 | 1-108-389-00 | MYLAR 0.1MF | 10% 100V | |
| R719 | 1-246-466-00 | CARBON 510 5% | 1/4W | C504 | 1-123-349-00 | ELECT 1000MF | 20% 35V | |
| R720 | 1-246-466-00 | CARBON 510 5% | 1/4W | C505 | 1-123-333-00 | ELECT 100MF | 20% 16V | |
| R721 | 1-246-487-00 | CARBON 3.9K 5% | 1/4W | C506 | 1-123-381-00 | ELECT 2.2MF | 20% 50V | |
| R722 | 1-246-461-00 | CARBON 330 5% | 1/4W | C507 | 1-108-824-00 | MYLAR 0.47MF | 5% 50V | |
| R723 | 1-246-473-00 | CARBON 1K 5% | 1/4W | C508 | 1-123-382-00 | ELECT 3.3MF | 20% 50V | |
| R724 | 1-246-487-00 | CARBON 3.9K 5% | 1/4W | C509 | 1-123-353-00 | ELECT 2.2MF | 20% 50V | |
| R725 | 1-246-461-00 | CARBON 330 5% | 1/4W | C510 | 1-108-824-00 | MYLAR 0.47MF | 5% 50V | |
| R726 | 1-246-481-00 | CARBON 2.2K 5% | 1/4W | C511 | 1-108-387-00 | MYLAR 0.068MF | 10% 100V | |
| R727 | 1-246-473-00 | CARBON 1K 5% | 1/4W | C512 | 1-108-387-00 | MYLAR 0.068MF | 10% 100V | |
| R728 | 1-246-497-00 | CARBON 10K 5% | 1/4W | C513 | 1-123-379-00 | ELECT 0.47MF | 20% 50V | |
| R729 | 1-246-475-00 | CARBON 1.2K 5% | 1/4W | C514 | 1-102-973-00 | CERAMIC 100PF | 5% 50V | |
| R730 | 1-246-457-00 | CARBON 220 5% | 1/4W | C515 | 1-123-356-00 | ELECT 10MF | 20% 50V | |
| R731 | 1-206-682-00 | METAL 5.6K 5% | 2W | F | C516 | 1-123-379-00 | ELECT 0.47MF | 20% 50V |
| R732 | 1-206-682-00 | METAL 5.6K 5% | 2W | F | C517 | 1-123-356-00 | ELECT 10MF | 20% 25V |
| R733 | 1-246-475-00 | CARBON 1.2K 5% | 1/4W | C518 | 1-123-356-00 | ELECT 10MF | 20% 25V | |
| R734 | 1-246-497-00 | CARBON 10K 5% | 1/4W | C519 | 1-123-335-00 | ELECT 330MF | 20% 25V | |
| R735 | 1-246-457-00 | CARBON 220 5% | 1/4W | C520 | 1-123-380-00 | ELECT 1MF | 20% 50V | |
| <u>VARIABLE RESISTOR</u> | | | | C521 | 1-108-389-00 | MYLAR 0.1MF | 10% 100V | |
| RV701 | 1-226-157-00 | RES, ADJ, METAL GLAZE 1M | | C522 | 1-108-379-00 | MYLAR 0.015MF | 10% 100V | |
| <u>SPARK GAP</u> | | | | C523 | 1-108-382-00 | MYLAR 0.027MF | 10% 100V | |
| SG701 | 1-519-063-XX | DISCHARGING GAP | | C524 | 1-108-637-00 | MYLAR 0.082MF | 10% 100V | |
| SG702 | 1-519-063-XX | DISCHARGING GAP | | C525 | 1-108-379-00 | MYLAR 0.015MF | 10% 100V | |
| SG703 | 1-519-063-XX | DISCHARGING GAP | | C526 | 1-123-328-00 | ELECT 4.7MF | 20% 25V | |
| | | | | C527 | 1-108-381-00 | MYLAR 0.022MF | 10% 100V | |
| | | | | C528 | 1-108-389-00 | MYLAR 0.1MF | 10% 100V | |
| | | | | C529 | 1-123-334-00 | ELECT 220MF | 20% 25V | |
| | | | | C530 | 1-123-348-00 | ELECT 470MF | 20% 35V | |

When indicating parts by reference number, please include the board name.

D

| Ref.No | Part No | Description | Remark | Ref.No | Part No | Description | Remark |
|--------|--------------|---------------|--------------|--------|------------------|----------------|-------------------------------|
| C531 | 1-123-369-00 | ELECT | 4.7MF 20% | 50V | C594 | 1-102-327-00 | CERAMIC 330PF 15% 1.5KV |
| C532 | 1-102-327-00 | CERAMIC | 330PF 15% | 1.5KV | C595 | 1-123-344-00 | ELECT 47MF 20% 35V |
| C533 | 1-130-709-00 | FILM | 0.008MF 3% | 2KV | C596 | 1-123-351-00 | ELECT 0.47MF 20% 50V |
| C534 | 1-129-747-00 | FILM | 0.047MF 10% | 400V | C597 | 1-102-973-00 | CERAMIC 100PF 5% 50V |
| C535 | 1-129-751-00 | FILM | 0.1MF 10% | 400V | C599 | 1-108-377-00 | MYLAR 0.01MF 10% 100V |
| C536 | 1-123-359-00 | ELECT | 47MF 20% | 50V | <u>CONNECTOR</u> | | |
| C537 | 1-108-389-00 | MYLAR | 0.1MF 10% | 100V | D1 | ⚡:1-560-290-00 | PLUG, CONNECTOR (2.5MM PITCH) |
| C538 | 1-108-381-00 | MYLAR | 0.022MF 10% | 100V | D2 | ⚡:1-560-125-00 | PLUG, CONNECTOR (2.5MM) 5P |
| C541 | 1-123-357-00 | ELECT | 22MF 20% | 50V | D3 | ⚡:1-508-765-00 | 3P PLUG (M) |
| C542 | 1-102-116-00 | CERAMIC | 680PF 10% | 50V | D4 | ⚡:1-506-348-XX | 3P PLUG (L) |
| C543 | 1-108-377-00 | MYLAR | 0.01MF 10% | 100V | D5 | ⚡:1-508-784-00 | 1P PLUG |
| C544 | 1-108-824-00 | MYLAR | 0.47MF 5% | 50V | D6 | ⚡:1-508-784-00 | 1P PLUG |
| C545 | 1-108-820-00 | MYLAR | 0.22MF 5% | 50V | D7 | ⚡:1-508-766-00 | 4P PLUG (M) |
| C547 | 1-123-356-00 | ELECT | 10MF 20% | 50V | D8 | ⚡:1-508-784-00 | 1P PLUG |
| C549 | 1-131-456-51 | TANTALUM | 0.68MF 20% | 16V | D9 | ⚡:1-560-123-00 | PLUG, CONNECTOR (2.5MM) 3P |
| C550 | 1-123-369-00 | ELECT | 4.7MF 20% | 50V | D10 | ⚡:1-508-766-00 | 4P PLUG (M) |
| C551 | 1-108-377-00 | MYLAR | 0.01MF 10% | 100V | <u>DIODE</u> | | |
| C552 | 1-130-026-00 | FILM | 0.0047MF 5% | 50V | D501 | =>8-719-911-19 | DIODE 1SS119 |
| C553 | 1-123-333-00 | ELECT | 100MF 20% | 25V | D502 | =>8-719-911-19 | DIODE 1SS119 |
| C554 | 1-108-381-00 | MYLAR | 0.022MF 10% | 100V | D503 | 8-719-100-66 | DIODE RD12E-B3 |
| C555 | 1-123-348-00 | ELECT | 470MF 20% | 35V | D505 | =>8-719-200-02 | DIODE 10E2 |
| C556 | 1-125-294-00 | ELECT (BLOCK) | 560MF 20% | 160V | D507 | =>8-719-911-19 | DIODE 1SS119 |
| C557 | 1-108-389-00 | MYLAR | 0.1MF 10% | 100V | D508 | =>8-719-911-19 | DIODE 1SS119 |
| C558 | 1-108-421-00 | MYLAR | 0.01MF 10% | 200V | D509 | 8-719-921-53 | DIODE RGP15G |
| C559 | 1-108-421-00 | MYLAR | 0.01MF 10% | 200V | D510 | =>8-719-924-06 | DIODE ERC24-06S |
| C560 | 1-108-375-00 | MYLAR | 0.0068MF 10% | 100V | D511 | =>8-719-911-55 | DIODE U05G |
| C561 | 1-102-327-00 | CERAMIC | 330PF 15% | 1.5KV | D512 | =>8-719-924-06 | DIODE ERC24-06S |
| C562 | 1-106-224-00 | MYLAR | 0.15MF 10% | 100V | D513 | =>8-719-924-06 | DIODE ERC24-06S |
| C563 | 1-123-333-00 | ELECT | 100MF 20% | 16V | D514 | 8-719-903-09 | DIODE V30N |
| C565 | 1-121-806-00 | ELECT | 10MF 16V | 16V | D515 | 8-719-961-04 | DIODE RGP10J |
| C567 | 1-108-382-00 | MYLAR | 0.027MF 10% | 100V | D516 | 8-719-100-92 | DIODE RD24E-B4 |
| C568 | 1-102-157-00 | CERAMIC | 560PF 10% | 500V | D517 | =>8-719-911-19 | DIODE 1SS119 |
| C569 | 1-102-038-00 | CERAMIC | 0.001MF 500V | 500V | D519 | 8-719-924-06 | DIODE ERC24-06S |
| C570 | 1-102-327-00 | CERAMIC | 330PF 15% | 1.5KV | D520 | 8-719-924-06 | DIODE ERC24-06S |
| C571 | 1-130-966-00 | FILM | 0.02MF 3% | 1.2KV | D521 | 8-719-903-09 | DIODE V30N |
| C572 | 1-129-721-51 | FILM | 0.039MF 10% | 630V | D522 | =>8-719-911-55 | DIODE U05G |
| C573 | 1-129-704-00 | FILM | 0.0015MF 10% | 630V | D523 | =>8-719-911-55 | DIODE U05G |
| C574 | 1-130-547-00 | FILM | 1.5MF 5% | 200V | D524 | =>8-719-305-15 | DIODE GH3F |
| C575 | 1-108-381-00 | MYLAR | 0.022MF 10% | 100V | D525 | =>8-719-928-08 | DIODE ERD28-08S |
| C576 | 1-108-389-00 | MYLAR | 0.1MF 10% | 100V | D530 | 8-719-100-66 | DIODE RD12E-B3 |
| C577 | 1-108-381-00 | MYLAR | 0.022MF 10% | 100V | D531 | =>8-719-911-19 | DIODE 1SS119 |
| C578 | 1-108-377-00 | MYLAR | 0.01MF 10% | 100V | <u>CONNECTOR</u> | | |
| C579 | 1-108-377-00 | MYLAR | 0.01MF 10% | 100V | DY1 | ⚡:1-508-765-00 | 3P PLUG (M) |
| C580 | 1-130-547-00 | FILM | 1.5MF 5% | 200V | DY2 | ⚡:1-508-765-00 | 3P PLUG (M) |
| C581 | 1-123-333-00 | ELECT | 100MF 20% | 16V | <u>IC</u> | | |
| C582 | 1-108-433-00 | MYLAR | 0.1MF 10% | 200V | IC501 | 8-759-145-58 | IC UPC4558C |
| C584 | 1-123-333-00 | ELECT | 100MF 20% | 16V | IC502 | 6-066-720-70 | IC TDA2653A |
| C585 | 1-123-379-00 | ELECT | 0.47MF 20% | 50V | IC503 | 8-759-145-58 | IC UPC4558C |
| C586 | 1-123-379-00 | ELECT | 0.47MF 20% | 50V | IC504 | 6-066-720-50 | IC TDA2595 |
| C590 | 1-102-110-00 | CERAMIC | 220PF 10% | 50V | IC505 | 6-066-717-10 | IC TDA1082 |
| C591 | 1-123-380-00 | ELECT | 1MF 20% | 50V | | | |
| C592 | 1-129-953-00 | FILM | 0.068MF 20% | 1.5KV | | | |
| C593 | 1-123-345-00 | ELECT | 100MF 20% | 35V | | | |

When indicating parts by reference number, please include the board name.

| Ref.No | Part No | Description | Remark | Ref.No | Part No | Description | Remark |
|-------------------|----------------|---------------------------------------|--------------|--------|--------------|-------------|---------------|
| <u>COIL</u> | | | | R516 | 1-246-503-00 | CARBON | 18K 5% 1/4W |
| L501 | 1-459-443-00 | COIL, FERRITE : PAC | | R517 | 1-246-483-00 | CARBON | 2.7K 5% 1/4W |
| L502 | 1-408-246-00 | MICRO INDUCTOR 27MMH | | R518 | 1-246-485-00 | CARBON | 3.3K 5% 1/4W |
| L503 | 1-443-012-00 | TRANSFORMER, DYNAMIC CONVERSION : DCT | | R519 | 1-246-505-00 | CARBON | 22K 5% 1/4W |
| L504 | 1-408-247-00 | MICRO INDUCTOR 33MMH | | R520 | 1-246-481-00 | CARBON | 2.2K 5% 1/4W |
| L505 | 1-408-243-00 | MICRO INDUCTOR 12MMH | | R521 | 1-246-536-00 | CARBON | 430K 5% 1/4W |
| L506 | 1-407-494-00 | MICRO INDUCTOR 1.5MMH | | R522 | 1-246-539-00 | CARBON | 560K 5% 1/4W |
| L507 | 1-459-123-00 | COIL, DUST CORE (PAC) : 1.4MMH | | R523 | 1-246-509-00 | CARBON | 33K 5% 1/4W |
| L508 | 1-459-104-00 | COIL, DUST CORE : 10MMH | | R524 | 1-246-533-00 | CARBON | 330K 5% 1/4W |
| L509 | 1-408-225-00 | MICRO INDUCTOR 3.3UH | | R525 | 1-246-495-00 | CARBON | 8.2K 5% 1/4W |
| L512 | 1-408-225-00 | MICRO INDUCTOR 3.3UH | | R526 | 1-246-503-00 | CARBON | 18K 5% 1/4W |
| L513 | 1-421-390-00 | COIL, FERRITE (PMC) | | R527 | 1-246-481-00 | CARBON | 2.2K 5% 1/4W |
| L514 | 1-459-308-00 | COIL, HORIZONTAL LINEARITY : HLC | | R528 | 1-246-505-00 | CARBON | 22K 5% 1/4W |
| L516 | 1-408-242-00 | MICRO INDUCTOR 10MMH | | R529 | 1-246-533-00 | CARBON | 330K 5% 1/4W |
| L517 | 1-459-215-00 | CORE COIL 120UH | | R530 | 1-246-515-00 | CARBON | 56K 5% 1/4W |
| L520 | 1-408-241-00 | MICRO INDUCTOR 8.2MMH | | R531 | 1-246-509-00 | CARBON | 33K 5% 1/4W |
| <u>TRANSISTOR</u> | | | | R532 | 1-246-513-00 | CARBON | 47K 5% 1/4W |
| Q501 | =>8-729-178-54 | TRANSISTOR 2SC2785 | | R533 | 1-246-509-00 | CARBON | 33K 5% 1/4W |
| Q502 | =>8-729-178-54 | TRANSISTOR 2SC2785 | | R534 | 1-246-509-00 | CARBON | 33K 5% 1/4W |
| Q503 | =>8-729-178-54 | TRANSISTOR 2SC2785 | | R535 | 1-246-493-00 | CARBON | 6.8K 5% 1/4W |
| Q504 | =>8-729-178-54 | TRANSISTOR 2SC2785 | | R536 | 1-246-473-00 | CARBON | 1K 5% 1/4W |
| Q505 | =>8-729-178-54 | TRANSISTOR 2SC2785 | | R537 | 1-246-511-00 | CARBON | 39K 5% 1/4W |
| Q506 | =>8-729-374-02 | TRANSISTOR 2SB740 | | R538 | 1-246-495-00 | CARBON | 8.2K 5% 1/4W |
| Q507 | 8-729-177-43 | TRANSISTOR 2SD774 | | R539 | 1-246-491-00 | CARBON | 5.6K 5% 1/4W |
| Q508 | 8-729-195-82 | TRANSISTOR 2SC2958 | | R540 | 1-246-511-00 | CARBON | 39K 5% 1/4W |
| Q509 | 8-729-214-47 | TRANSISTOR 2SC1447 | | R541 | 1-246-511-00 | CARBON | 39K 5% 1/4W |
| Q510 | 8-729-177-43 | TRANSISTOR 2SD774 | | R542 | 1-246-491-00 | CARBON | 5.6K 5% 1/4W |
| Q511 | =>8-729-374-02 | TRANSISTOR 2SB740 | | R543 | 1-211-409-00 | CARBON | 10 5% 1/4W F |
| Q512 | 8-726-400-02 | THYRISTOR SG264A | | R544 | 1-211-409-00 | CARBON | 10 5% 1/4W F |
| Q513 | 8-729-372-53 | TRANSISTOR 2SD725-04 | | R545 | 1-213-131-00 | METAL | 100 5% 1W F |
| Q514 | 8-729-372-53 | TRANSISTOR 2SD725-04 | | R546 | 1-246-471-00 | CARBON | 820 5% 1/4W |
| Q515 | 8-729-203-81 | TRANSISTOR 2SC2238B | | R547 | 1-246-497-00 | CARBON | 10K 5% 1/4W |
| Q516 | =>8-729-374-02 | TRANSISTOR 2SB740 | | R548 | 1-246-481-00 | CARBON | 2.2K 5% 1/4W |
| Q517 | 8-729-177-43 | TRANSISTOR 2SD774 | | R549 | 1-213-125-00 | METAL | 33 5% 1W F |
| Q518 | =>8-729-178-54 | TRANSISTOR 2SC2785 | | R550 | 1-213-144-00 | METAL | 1.2K 5% 1W F |
| Q519 | =>8-729-178-54 | TRANSISTOR 2SC2785 | | R551 | 1-213-138-00 | METAL | 390 5% 1W F |
| <u>RESISTOR</u> | | | | R552 | 1-246-997-00 | CARBON | 1.2 5% 1/4W F |
| R501 | 1-246-521-00 | CARBON | 100K 5% 1/4W | R553 | 1-246-997-00 | CARBON | 1.2 5% 1/4W F |
| R502 | 1-246-489-00 | CARBON | 4.7K 5% 1/4W | R554 | 1-246-979-00 | CARBON | 1.2 5% 1/8W F |
| R503 | 1-246-449-00 | CARBON | 100 5% 1/4W | R555 | 1-213-126-00 | METAL | 39 5% 1W F |
| R504 | 1-246-485-00 | CARBON | 3.3K 5% 1/4W | R556 | 1-246-979-00 | CARBON | 1.2 5% 1/8W F |
| R505 | 1-246-485-00 | CARBON | 3.3K 5% 1/4W | R557 | 1-246-461-00 | CARBON | 330 5% 1/4W |
| R506 | 1-246-513-00 | CARBON | 47K 5% 1/4W | R558 | 1-246-505-00 | CARBON | 22K 5% 1/4W |
| R507 | 1-246-489-00 | CARBON | 4.7K 5% 1/4W | R559 | 1-246-505-00 | CARBON | 22K 5% 1/4W |
| R508 | 1-212-367-00 | METAL | 3.9 5% 1W F | R560 | 1-246-515-00 | CARBON | 56K 5% 1/4W |
| R509 | 1-246-465-00 | CARBON | 470 5% 1/4W | R561 | 1-246-497-00 | CARBON | 10K 5% 1/4W |
| R510 | 1-246-461-00 | CARBON | 330 5% 1/4W | R562 | 1-246-533-00 | CARBON | 330K 5% 1/4W |
| R511 | 1-246-511-00 | CARBON | 39K 5% 1/4W | R563 | 1-246-497-00 | CARBON | 10K 5% 1/4W |
| R512 | 1-246-425-00 | CARBON | 10 5% 1/4W | R564 | 1-246-477-00 | CARBON | 1.5K 5% 1/4W |
| R513 | 1-212-360-00 | METAL | 1 5% 1W F | R565 | 1-246-533-00 | CARBON | 330K 5% 1/4W |
| R515 | 1-246-501-00 | CARBON | 15K 5% 1/4W | R566 | 1-246-488-00 | CARBON | 4.3K 5% 1/4W |
| | | | | R568 | 1-246-527-00 | CARBON | 180K 5% 1/4W |
| | | | | R569 | 1-246-509-00 | CARBON | 33K 5% 1/4W |
| | | | | R570 | 1-246-537-00 | CARBON | 470K 5% 1/4W |

When indicating parts by reference number, please include the board name.

| Ref.No | Part No | Description | Remark |
|--------|--------------|----------------|--------|
| R574 | 1-246-509-00 | CARBON 33K 5% | 1/4W |
| R576 | 1-246-497-00 | CARBON 10K 5% | 1/4W |
| R577 | 1-246-497-00 | CARBON 10K 5% | 1/4W |
| R578 | 1-214-736-00 | METAL 2K 1% | 1/4W |
| R579 | 1-214-759-00 | METAL 18K 1% | 1/4W |
| R580 | 1-214-773-00 | METAL 68K 1% | 1/4W |
| R581 | 1-206-692-00 | METAL 15K 5% | 2W F |
| R582 | 1-246-513-00 | CARBON 47K 5% | 1/4W |
| R584 | 1-246-473-00 | CARBON 1K 5% | 1/4W |
| R585 | 1-246-471-00 | CARBON 820 5% | 1/4W |
| R586 | 1-246-525-00 | CARBON 150K 5% | 1/4W |
| R587 | 1-246-529-00 | CARBON 220K 5% | 1/4W |
| R589 | 1-246-513-00 | CARBON 47K 5% | 1/4W |
| R590 | 1-246-489-00 | CARBON 4.7K 5% | 1/4W |
| R591 | 1-246-469-00 | CARBON 680 5% | 1/4W |
| R592 | 1-246-521-00 | CARBON 100K 5% | 1/4W |
| R593 | 1-214-755-00 | METAL 12K 1% | 1/4W |
| R594 | 1-246-449-00 | CARBON 100 5% | 1/4W |
| R595 | 1-246-485-00 | CARBON 3.3K 5% | 1/4W |
| R596 | 1-246-473-00 | CARBON 1K 5% | 1/4W |
| R597 | 1-246-489-00 | CARBON 4.7K 5% | 1/4W |
| R598 | 1-206-676-00 | METAL 3.3K 5% | 2W F |
| R599 | 1-206-676-00 | METAL 3.3K 5% | 2W F |
| R1501 | 1-246-981-00 | CARBON 4.7 5% | 1/8W F |
| R1502 | 1-246-981-00 | CARBON 4.7 5% | 1/8W F |
| R1503 | 1-213-146-00 | METAL 1.8K 5% | 1W F |
| R1504 | 1-206-441-00 | METAL 1.2 5% | 2W F |
| R1505 | 1-246-449-00 | CARBON 100 5% | 1/4W |
| R1506 | 1-206-658-00 | METAL 560 5% | 2W F |
| R1507 | 1-246-449-00 | CARBON 100 5% | 1/4W |
| R1508 | 1-213-147-00 | METAL 2.2 5% | 1W F |
| R1509 | 1-206-463-00 | METAL 10 5% | 2W F |
| R1510 | 1-246-489-00 | CARBON 4.7K 5% | 1/4W |
| R1511 | 1-213-139-00 | METAL 470 5% | 1W F |
| R1512 | 1-246-489-00 | CARBON 4.7K 5% | 1/4W |
| R1513 | 1-246-523-00 | CARBON 120K 5% | 1/4W |
| R1514 | 1-246-505-00 | CARBON 22K 5% | 1/4W |
| R1515 | 1-246-519-00 | CARBON 82K 5% | 1/4W |
| R1516 | 1-246-503-00 | CARBON 18K 5% | 1/4W |
| R1517 | 1-246-457-00 | CARBON 220 5% | 1/4W |
| R1518 | 1-246-511-00 | CARBON 39K 5% | 1/4W |
| R1519 | 1-246-495-00 | CARBON 8.2K 5% | 1/4W |
| R1520 | 1-246-489-00 | CARBON 4.7K 5% | 1/4W |
| R1521 | 1-246-519-00 | CARBON 82K 5% | 1/4W |
| R1522 | 1-246-463-00 | CARBON 390 5% | 1/4W |
| R1523 | 1-246-519-00 | CARBON 82K 5% | 1/4W |
| R1524 | 1-206-449-00 | METAL 2.7 5% | 2W F |
| R1525 | 1-246-521-00 | CARBON 100K 5% | 1/4W |
| R1526 | 1-246-481-00 | CARBON 2.2K 5% | 1/4W |
| R1527 | 1-213-135-00 | METAL 220 5% | 1W F |
| R1528 | 1-246-455-00 | CARBON 180 5% | 1/4W |
| R1529 | 1-246-445-00 | CARBON 68 5% | 1/4W |
| R1530 | 1-246-453-00 | CARBON 150 5% | 1/4W |

| Ref.No | Part No | Description | Remark |
|--------------------------|--------------|--------------------------------------|--------|
| R1531 | 1-246-497-00 | CARBON 10K 5% | 1/4W |
| R1532 | 1-246-505-00 | CARBON 22K 5% | 1/4W |
| R1533 | 1-244-869-00 | CARBON 680 5% | 1/2W |
| R1534 | 1-246-457-00 | CARBON 220 5% | 1/4W |
| R1535 | 1-246-480-00 | CARBON 2K 5% | 1/4W |
| R1536 | 1-246-442-00 | CARBON 51 5% | 1/4W |
| R1537 | 1-246-525-00 | CARBON 150K 5% | 1/4W |
| R1538 | 1-246-513-00 | CARBON 47K 5% | 1/4W |
| R1539 | 1-246-541-00 | CARBON 680K 5% | 1/4W |
| R1540 | 1-246-501-00 | CARBON 15K 5% | 1/4W |
| R1541 | 1-246-533-00 | CARBON 330K 5% | 1/4W |
| R1542 | 1-246-529-00 | CARBON 220K 5% | 1/4W |
| R1543 | 1-213-133-00 | METAL 150 5% | 1W F |
| R1544 | 1-246-523-00 | CARBON 120K 5% | 1/4W |
| R1551A | 1-202-727-00 | COMPOSITION 4.7M 10% | 1/2W |
| R1551B | 1-202-730-00 | COMPOSITION 8.2M 10% | 1/2W |
| <u>VARIABLE RESISTOR</u> | | | |
| RV501 | 1-228-718-00 | RES, ADJ, CERAMIC CARBON 330 | |
| RV502 | 1-228-726-11 | RES, ADJ, CERAMIC CARBON 33K | |
| RV503 | 1-228-725-00 | RES, ADJ, CERAMIC CARBON 22K | |
| RV504 | 1-228-724-00 | RES, ADJ, CERAMIC CARBON 10K | |
| RV505 | 1-228-720-00 | RES, ADJ, CERAMIC CARBON 1K | |
| RV506 | 1-228-727-00 | RES, ADJ, CERAMIC CARBON 47K | |
| RV507 | 1-228-720-00 | RES, ADJ, CERAMIC CARBON 1K | |
| RV508 | 1-228-718-00 | RES, ADJ, CERAMIC CARBON 330 | |
| RV509 | 1-228-720-00 | RES, ADJ, CERAMIC CARBON 1K | |
| RV510 | 1-228-724-00 | RES, ADJ, CERAMIC CARBON 10K | |
| RV511 | 1-228-723-00 | RES, ADJ, CERAMIC CARBON 4.7K | |
| RV512 | 1-228-727-00 | RES, ADJ, CERAMIC CARBON 47K | |
| RV514 | 1-228-726-11 | RES, ADJ, CERAMIC CARBON 33K | |
| <u>SPARK GAP</u> | | | |
| SG501 | 1-519-063-XX | DISCHARGING GAP | |
| <u>TRANSFORMER</u> | | | |
| T501 | 1-421-577-00 | TRANSFORMER, FERRITE (V.PCT) | |
| T502 | 1-421-575-00 | LOT | |
| T503 | 1-439-276-21 | TRANSFORMER ASSY, FLYBACK | |
| T504 | 1-437-089-00 | TRANSFORMER, HORIZONTAL DRIVE : HOT | |
| T505 | 1-437-089-00 | TRANSFORMER, HORIZONTAL DRIVE : HOT | |
| T506 | 1-439-252-00 | TRANSFORMER, HORIZONTAL OUTPUT : HOT | |
| T507 | 1-407-849-00 | TRANSFORMER, D.F : DFT | |
| ***** | | | |
| | 1-608-715-00 | J1 BOARD | ***** |
| | 1-536-771-00 | TERMINAL BOARD, INPUT/OUTPUT | |
| <u>CAPACITOR</u> | | | |
| C1300 | 1-108-385-00 | MYLAR 0.047MF 10% | 100W |

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

| Ref.No | Part No | Description | Remark |
|--------|--------------|---------------|----------|
| C1301 | 1-108-385-00 | MYLAR 0.047MF | 10% 100V |
| C1302 | 1-102-212-00 | CERAMIC 820PF | 10% 500V |
| C1303 | 1-102-212-00 | CERAMIC 820PF | 10% 500V |
| C1304 | 1-102-212-00 | CERAMIC 820PF | 10% 500V |
| C1305 | 1-102-212-00 | CERAMIC 820PF | 10% 500V |
| C1306 | 1-102-212-00 | CERAMIC 820PF | 10% 500V |
| C1307 | 1-102-212-00 | CERAMIC 820PF | 10% 500V |
| C1308 | 1-102-212-00 | CERAMIC 820PF | 10% 500V |
| C1309 | 1-102-212-00 | CERAMIC 820PF | 10% 500V |

RESISTOR

| | | | |
|-------|--------------|----------------|------|
| R1300 | 1-246-446-00 | CARBON 75 5% | 1/4W |
| R1301 | 1-246-481-00 | CARBON 2.2K 5% | 1/4W |
| R1302 | 1-246-481-00 | CARBON 2.2K 5% | 1/4W |
| R1304 | 1-246-446-00 | CARBON 75 5% | 1/4W |
| R1305 | 1-246-481-00 | CARBON 2.2K 5% | 1/4W |
| R1306 | 1-246-481-00 | CARBON 2.2K 5% | 1/4W |
| R1307 | 1-246-443-00 | CARBON 56 5% | 1/4W |

⚡: 1-608-716-00 J2 BOARD

⚡: 1-508-765-00 3P PLUG (M)
⚡: 1-555-962-00 CONNECTOR ASSY (2.5MM) 5P
⚡: 1-556-398-31 CONNECTOR ASSY (2.5MM) 5P
⚡: 4-348-704-00 HEAT SINK (A)

CAPACITOR

| | | | |
|-------|--------------|---------------|----------|
| C1350 | 1-102-212-00 | CERAMIC 820PF | 10% 500V |
| C1351 | 1-102-212-00 | CERAMIC 820PF | 10% 500V |
| C1352 | 1-102-212-00 | CERAMIC 820PF | 10% 500V |
| C1353 | 1-102-212-00 | CERAMIC 820PF | 10% 500V |
| C1360 | 1-123-311-00 | ELECT 1000MF | 20% 10V |
| C1361 | 1-123-333-00 | ELECT 100MF | 20% 16V |
| C1362 | 1-123-333-00 | ELECT 100MF | 20% 16V |
| C1363 | 1-123-360-00 | ELECT 100MF | 20% 50V |
| C1364 | 1-123-320-00 | ELECT 100MF | 20% 16V |

CONNECTOR

CN1 ⚡: 1-560-686-00 CONNECTOR (PLUG) 34P
CN2 1-561-534-00 SOCKET 21P

DIODE

D1360=>8-719-911-19 DIODE 1SS119
D1361=>8-719-911-19 DIODE 1SS119
D1362 8-719-100-20 DIODE RD3.9E-B1

IC

IC1351=>8-759-700-06 IC NJB7812B

| Ref.No | Part No | Description | Remark |
|-------------|--------------|-------------------|--------|
| <u>COIL</u> | | | |
| L1360 | 1-407-780-00 | COIL, SPOOK CHOKE | |
| L1361 | 1-407-780-00 | COIL, SPOOK CHOKE | |
| L1362 | 1-407-780-00 | COIL, SPOOK CHOKE | |

TRANSISTOR

| | | | |
|-------|--------------|--------------------|--|
| Q1360 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q1361 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q1362 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q1363 | 8-729-109-53 | TRANSISTOR 2SD795A | |
| Q1364 | 8-729-178-54 | TRANSISTOR 2SC2785 | |

RESISTOR

| | | | |
|-------|--------------|----------------|------|
| R1350 | 1-246-446-00 | CARBON 75 5% | 1/4W |
| R1352 | 1-246-446-00 | CARBON 75 5% | 1/4W |
| R1353 | 1-246-446-00 | CARBON 75 5% | 1/4W |
| R1354 | 1-246-446-00 | CARBON 75 5% | 1/4W |
| R1355 | 1-246-446-00 | CARBON 75 5% | 1/4W |
| R1356 | 1-246-481-00 | CARBON 2.2K 5% | 1/4W |
| R1357 | 1-246-481-00 | CARBON 2.2K 5% | 1/4W |
| R1360 | 1-206-487-51 | METAL 1 5% | 3W F |
| R1361 | 1-206-487-51 | METAL 1 5% | 3W F |
| R1362 | 1-246-465-00 | CARBON 470 5% | 1/4W |
| R1363 | 1-246-465-00 | CARBON 470 5% | 1/4W |
| R1364 | 1-246-457-00 | CARBON 220 5% | 1/4W |
| R1365 | 1-246-457-00 | CARBON 220 5% | 1/4W |
| R1366 | 1-246-471-00 | CARBON 820 5% | 1/4W |
| R1367 | 1-246-471-00 | CARBON 820 5% | 1/4W |
| R1368 | 1-246-465-00 | CARBON 470 5% | 1/4W |
| R1369 | 1-213-131-00 | METAL 100 5% | 1W F |
| R1370 | 1-246-451-00 | CARBON 120 5% | 1/4W |
| R1371 | 1-246-447-00 | CARBON 82 5% | 1/4W |
| R1372 | 1-246-449-00 | CARBON 100 5% | 1/4W |
| R1373 | 1-206-515-51 | METAL 15 5% | 3W F |
| R1374 | 1-246-457-00 | CARBON 220 5% | 1/4W |
| R1375 | 1-246-457-00 | CARBON 220 5% | 1/4W |
| R1376 | 1-246-457-00 | CARBON 220 5% | 1/4W |

VARIABLE RESISTOR

RV1360 1-228-718-00 RES, ADJ, CERAMIC CARBON 330

⚡: 1-608-714-00 H BOARD

RESISTOR

| | | | |
|-------|--------------|----------------|------|
| R1401 | 1-246-487-00 | CARBON 3.9K 5% | 1/4W |
| R1402 | 1-246-505-00 | CARBON 22K 5% | 1/4W |
| R1403 | 1-246-501-00 | CARBON 15K 5% | 1/4W |

VARIABLE RESISTOR

RV1401 1-228-583-00 RES, VAR, CARBON 20K
RV1402 1-228-582-00 RES, VAR, CARBON 20K

When indicating parts by reference number, please include the board name.

| Ref.No | Part No | Description | Remark |
|------------------|--------------|------------------------|---------|
| RV1403 | 1-228-582-00 | RES, VAR, CARBON 20K | |
| RV1404 | 1-228-583-00 | RES, VAR, CARBON 20K | |
| RV1405 | 1-228-582-00 | RES, VAR, CARBON 20K | |
| RV1406 | 1-228-582-00 | RES, VAR, CARBON 20K | |
| RV1407 | 1-228-582-00 | RES, VAR, CARBON 20K | |
| RV1408 | 1-228-582-00 | RES, VAR, CARBON 20K | |
| RV1409 | 1-228-583-00 | RES, VAR, CARBON 20K | |
| <u>SWITCH</u> | | | |
| S1401 | 1-554-118-00 | SWITCH, PUSH | |
| ***** | | | |
| ● | 1-606-794-00 | N BOARD | ***** |
| ● | 4-342-117-00 | CASE, SHIELD (MAIN), R | |
| ● | 4-342-118-00 | LID, SHIELD CASE, R | |
| <u>CAPACITOR</u> | | | |
| C1 | 1-123-617-00 | ELECT 10MF | 20% 16V |
| C2 | 1-123-617-00 | ELECT 10MF | 20% 16V |
| C3 | 1-123-617-00 | ELECT 10MF | 20% 16V |
| C4 | 1-161-019-00 | CERAMIC 0.033MF | 10% 25V |
| C5 | 1-108-567-00 | MYLAR 0.0033MF | 5% 50V |
| C6 | 1-123-821-00 | ELECT 47MF | 20% 16V |
| <u>DIODE</u> | | | |
| D1 | 8-719-110-32 | DIODE PH302B | |
| D2 | 8-719-911-19 | DIODE 1SS119 | |
| <u>IC</u> | | | |
| IC1 | 8-759-113-73 | IC UPC1373H | |
| <u>COIL</u> | | | |
| L1 | 1-404-310-00 | COIL 4.7UH | |

| Ref.No | Part No | Description | Remark |
|---------------|----------------|-----------------------------------|--------|
| MISCELLANEOUS | | | |
| ***** | | | |
| ▲ | 1-215-066-21 | RES ASSY, HIGH-VOLTAGE (MVR) | |
| ▲ | 1-228-484-00 | RESISTOR ASSY, HIGH-VOLTAGE (HVR) | |
| ▲ | 1-451-226-00 | DEFLECTION YOKE (SY105A) | |
| | 1-452-032-00 | MAGNET DISK; 10MM ϕ | |
| | 1-452-094-00 | MAGNET ROTATABLE DISK; 15MM ϕ | |
| | 1-452-236-00 | CRT NECK ASSY (1) | |
| ● | 1-509-833-71 | CONNECTOR ASSY, 1P | |
| | 1-543-179-00 | CORE, RING | |
| ● | 1-551-614-00 | CONNECTOR ASSY, MINIATURE 2P | |
| ● | 1-551-854-00 | CONNECTOR ASSY 1P | |
| ● | 1-551-926-00 | CONNECTOR ASSY (2.5MM) 3P | |
| ● | 1-555-364-51 | CONNECTOR ASSY (2.5MM) 7P | |
| ● | 1-555-437-00 | CONNECTOR ASSY (LARGE) 3P | |
| ● | 1-555-730-00 | CONNECTOR ASSY (2.5MM) 2P | |
| ● | 1-555-817-00 | CONNECTOR ASSY (2.5MM) 4P | |
| ● | 1-556-106-81 | CONNECTOR, MINIATURE 1P | |
| ● | 1-556-327-81 | CONNECTOR ASSY 1P | |
| ● | 1-556-335-71 | CONNECTOR ASSY (2.5MM) 3P | |
| ● | 1-556-389-71 | CONNECTOR ASSY, MINIATURE 4P | |
| ● | 1-556-398-21 | CONNECTOR ASSY (2.5MM) 5P | |
| ● | 1-556-671-21 | CONNECTOR ASSY (2.5MM) 8P | |
| ● | 1-556-673-31 | CONNECTOR ASSY (LARGE) 3P | |
| ● | 1-556-673-41 | CONNECTOR ASSY (LARGE) 3P | |
| ● | 1-556-711-00 | CONNECTOR ASSY 6P | |
| ● | 1-556-712-00 | CONNECTOR ASSY (2.5MM) 6P | |
| ● | 1-561-831-00 | CONNECTOR, SHORT (SOCKET) | |
| ▲ | 1-561-867-00 | INLET 2P | |
| L901 | ▲ 1-426-041-31 | COIL, DEGAUSSING | |
| L902 | ▲ 1-426-041-31 | COIL, DEGAUSSING | |
| S901 | ▲ 1-553-225-00 | SWITCH, PUSH | |
| T901 | ▲ 1-447-473-00 | TRANSFORMER, POWER | |
| V901 | ▲ 8-738-407-05 | CRT (680DB22) | |

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

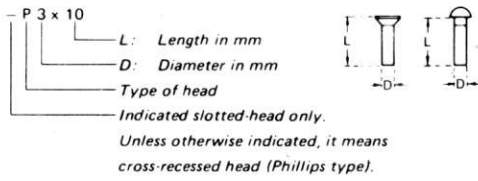
When indicating parts by reference number, please include the board name.

| <u>Ref.No</u> | <u>Part No</u> | <u>Description</u> | <u>Remark</u> | <u>Ref.No</u> | <u>Part No</u> | <u>Description</u> | <u>Remark</u> |
|--|----------------|----------------------------|---------------|---------------|----------------|--------------------|---------------|
| ACCESSORIES AND PACKING MATERIALS ***** | | | | | | | |
| | <u>Part.No</u> | <u>Description</u> | <u>Remark</u> | | | | |
| | X-4354-304-0 | PLATE ASSY, BOTTOM | | | | | |
| | 1-506-392-00 | ADAPTOR, PLUG (PC-5A) | | | | | |
| | 1-551-475-31 | CABLE ASSY | | | | | |
| | 1-551-842-00 | CORD, CONNECTION (RK-105A) | | | | | |
| | 1-555-234-00 | CORD, POWER | | | | | |
| | 4-337-844-00 | BAG, PROTECTION | | | | | |
| | 4-342-062-00 | CUSHION (LEFT LOWER) | | | | | |
| | 4-342-063-00 | CUSHION (RIGHT LOWER) | | | | | |
| | 4-342-064-00 | CUSHION (LEFT UPPER) | | | | | |
| | 4-342-065-00 | CUSHION (RIGHT UPPER) | | | | | |
| | 4-354-321-00 | REINFORCEMENT | | | | | |
| | 4-362-933-00 | INDIVIDUAL CARTON | | | | | |

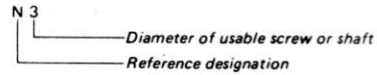
When indicating parts by reference number, please include the board name.













HARDWARE NOMENCLATURE














Screw:



Nut, Washer, Retaining ring:



| Reference Designation | Shape | Description | Remarks |
|-----------------------|---|---|--|
| SCREWS | | | |
| P |  | pan-head screw | binding-head (B) screw for replacement |
| PWH |  | pan-head screw with washer face | binding-head (B) screw and flat washer for replacement |
| PS PSP |  | pan-head screw with spring washer | binding-head (B) screw and spring washer for replacement |
| PSW PSPW |  | pan-head screw with spring and flat washers | binding-head (B) screw and spring and flat washers for replacement |
| R |  | round-head screw | binding-head (B) screw for replacement |
| K |  | flat-countersunk-head screw | |
| RK |  | oval-countersunk-head screw | |
| B |  | binding-head screw | |
| T |  | truss-head screw | binding-head (B) screw for replacement |
| F |  | flat-fillister-head screw | |
| RF |  | fillister-head screw | |
| BV |  | brazer-head screw | |

| Reference Designation | Shape | Description | Remarks |
|----------------------------|---|--|---|
| SELF-TAPPING SCREWS | | | |
| TA |  | self-tapping screw | ex: TA, P 3 x 10 |
| PTP |  | pan-head self-tapping screw | binding-head self-tapping (TA, B) screw for replacement |
| PTPWH |  | pan-head self-tapping screw with washer face | binding-head self-tapping (TA, B) screw and flat washer for replacement |
| PTTWH |  | pan-head thread-rolling screw with washer face | binding-head (B) screw and flat washer for replacement |
| SET SCREWS | | | |
| SC |  | set screw | |
| SC |  | hexagon-socket set screw | ex: SC 2.6 x 4, hexagon socket |
| NUT | | | |
| N |  | nut | |
| WASHERS | | | |
| W |  | flat washer | |
| SW |  | spring washer | |
| LW |  | internal-tooth lock washer | ex: LW3, internal |
| LW |  | external-tooth lock washer | ex: LW3, external |
| RETAINING RINGS | | | |
| E |  | retaining ring | |
| G |  | grip-type retaining ring | |