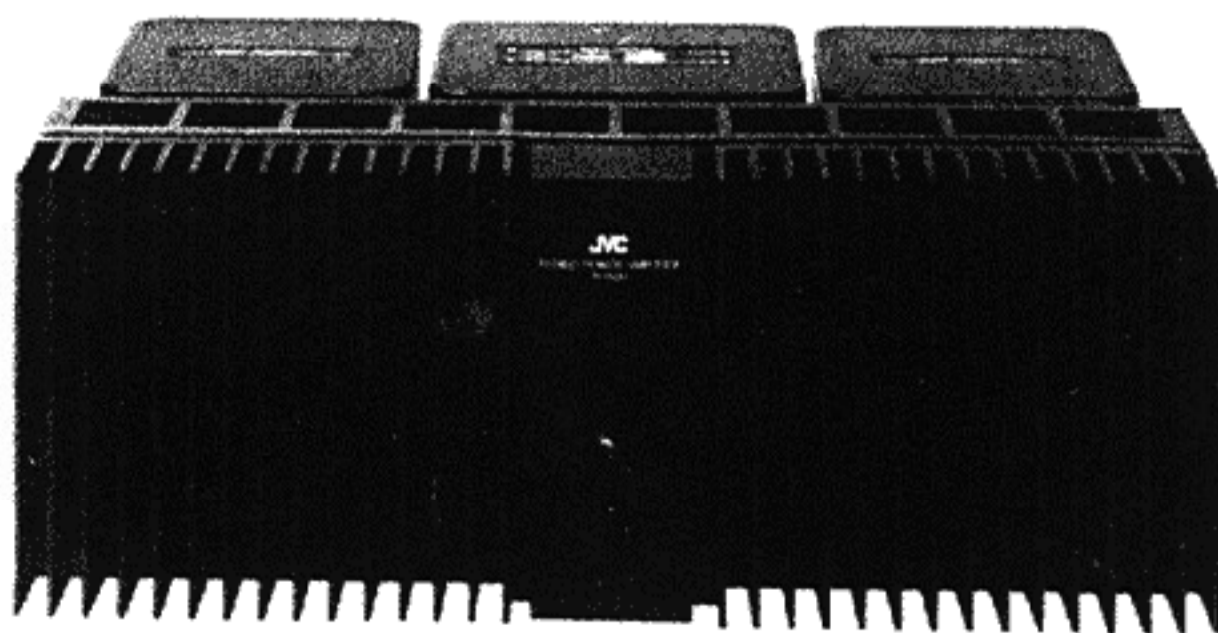


JVC

SERVICE MANUAL

MODEL
M-3030

STEREO POWER AMPLIFIER



No. 2420
MAY, 1977

Contents

| | Page |
|--|------|
| 1. Specifications | 2 |
| 2. Precautions in Servicing | 2 |
| 3. Removal of Covers and Panels | 3 |
| 4. Main Parts Location and Part Numbers | |
| 4-(1) Top View | 4 |
| 4-(2) Bottom View | 4 |
| 5. Exploded Views and Parts List | |
| 5-(1) Top and Rear Panels | 5 |
| 5-(2) Heat Sink and P.C. Board Ass'y | 6 |
| 5-(3) Heat Sink and Power Transistors | 7 |
| 5-(4) Bottom Plate | 7 |
| 6. Adjustment Procedures | |
| 6-(1) Center Voltage | 8 |
| 6-(2) Idling Current | 8 |
| 7. Wiring Diagram of All P.C. Board Assemblies | 9 |
| 8. Printed Circuit Board Ass'y and Parts List | |
| 8-(1) TXX-45 L.E.D. and Connector P.C. Board Ass'y | 10 |
| 8-(2) TPS-78 Class-A Power Supply P.C. Board Ass'y | 11 |
| 8-(3) TPS-79 Class-B Power Supply P.C. Board Ass'y | 13 |
| 8-(4) TPS-86 AC Fuse P.C. Board Ass'y | 14 |
| 8-(5) TAD-181 Driver Amp. & Protector P.C. Board Ass'y | 15 |
| 8-(6) TAD-182 Driver Amp. P.C. Board Ass'y | 18 |
| 9. Accessories List | 20 |
| 10. Packing Materials and Part Numbers | 20 |
| 11. Transistor Lead Identification | 21 |
| 12. Parts List with Specified Numbers for Designated Areas | 21 |
| 13. Schematic Diagram | 22 |
| 14. Schematic Diagrams for Designated Areas | 23 |

1. Specifications

| | | |
|---|---|--|
| Transistor & Diode | : | 2 FETs (Dual package), 41 Transistors, 13 Diodes |
| Output Power (Continuous) (both channels driven) | : | 100 W + 100 W (8 Ω) 130 W + 130 W (4 Ω) |
| Total Harmonic Distortion (8 Ω) (20 Hz – 20 kHz both channels driven) | : | Rated output 0.05 % or less 50 W output 0.01 % or less 1 W output 0.01 % or less |
| (1 kHz both channels driven) | : | Rated output 0.007 % or less |
| Intermodulation Distortion (8 Ω) (SMPTE, both channels driven) | : | Rated output 0.05 % or less 50 W output 0.03 % or less 1 W output 0.03 % or less |
| Power Bandwidth (IHF both channels driven) | : | 5 Hz – 30 kHz 0.02 % T.H.D. at -3 dB output power 5 Hz – 100 kHz 0.3 % T.H.D. at -3 dB output power |
| Frequency Response | : | DC – 100 kHz +0 dB, -1 dB from DIRECT input terminal |
| Subsonic Filter | : | 18 Hz (-6 dB/oct) from SUBSONIC input terminal |
| Input Sensitivity/Impedance | : | 1.0 V/more than 50 k Ω |
| Signal-to-Noise Ratio | : | 116 dB (IHF, A network, input short) |
| Damping Factor | : | More than 75 (20 Hz – 20 kHz) |
| Output Impedance | : | 4 – 16 Ω |

2. Precautions in Servicing

Notes:

- Both left and right channels employ the same class-B power supply circuit board (TPS-79). Identifications of the circuit board in the diagram are provided by prefix "L" for the left channel and "R" for the right channel, as shown in the example below.
Example: D501 for the left channel: L-D501
D501 for the right channel: R-D501
- Check ventilation carefully when a great deal of heat is generated. If the amplifier is installed on a dead-end rack, heat will accumulate and result in a reduction in the service life of the parts. Maintain a clearance of at least 5 cm on the top to assure sufficient air flow.
- Do not reverse the L and R SUBSONIC and DIRECT terminals since neither channel will function properly if the connections are incorrect. Be sure the L and R leads are properly connected to the correct input terminals.
- Do not mount the amplifier with the rear panel removed. The power cord may bend and become disconnected where it exits from the bottom of the amplifier.

3. Removal of Covers and Panels

Procedure

1. Side Panel

Remove four screws (1) on each side.

Remarks:

- First remove the side panels to permit the parts to be removed.
- Be sure to follow the order of steps given here.

2. P.C. Board Cover

Remove the two screws (2), then slide back and lift up.

Remark:

The front panel can not be dismantled until the circuit board cover is removed.

3. Front Panel

Remove screw (3) from above and two screws (4) from below, then pull the front panel out to the front.

Remark:

The driver circuit board and power transistors can now be removed.

4. Bottom Cover

Remove the screws (5).

Remark:

Then remove the circuit boards and other parts.

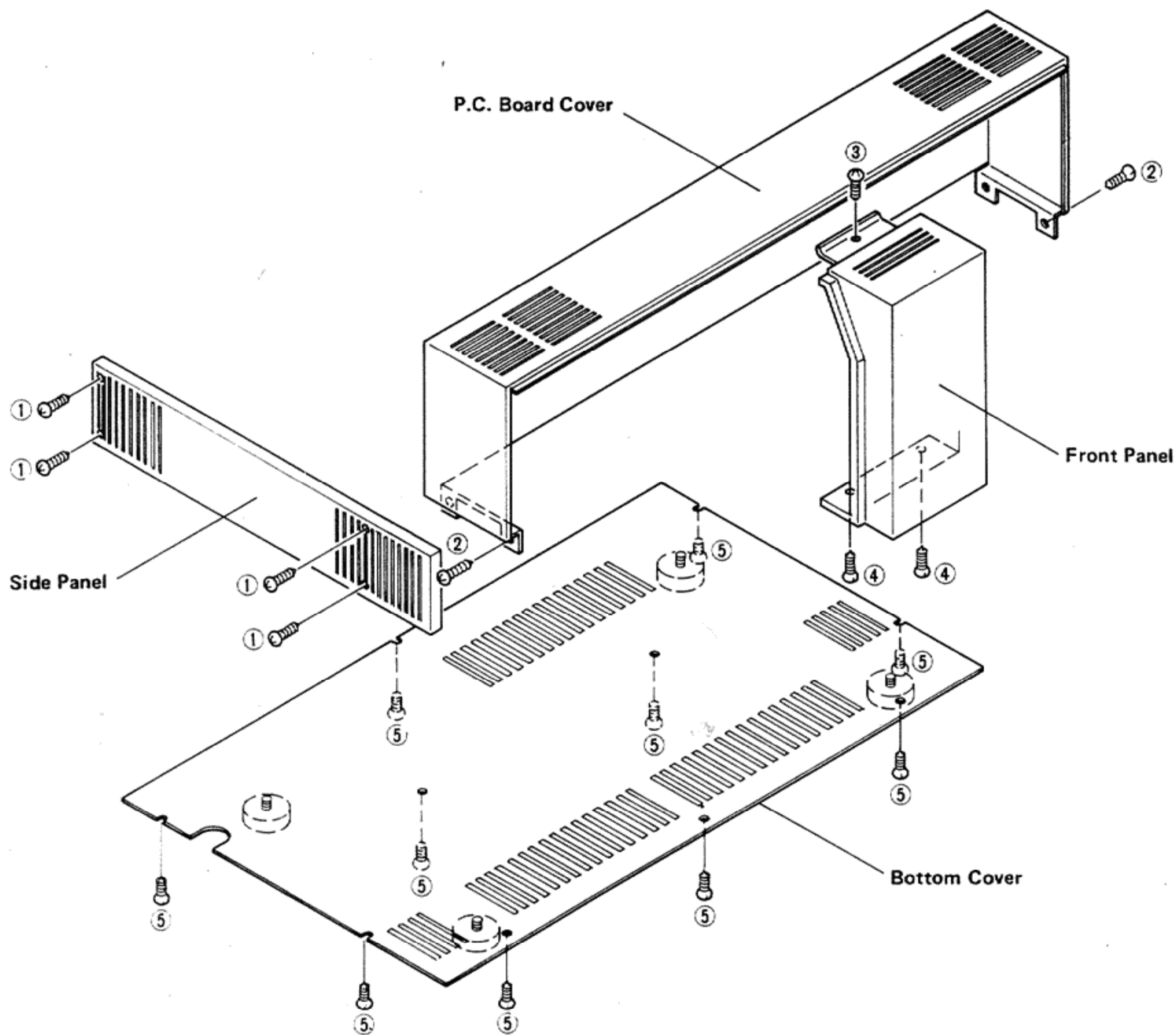


Fig. 1

4. Main Parts Location and Part Numbers

4-(1) Top View

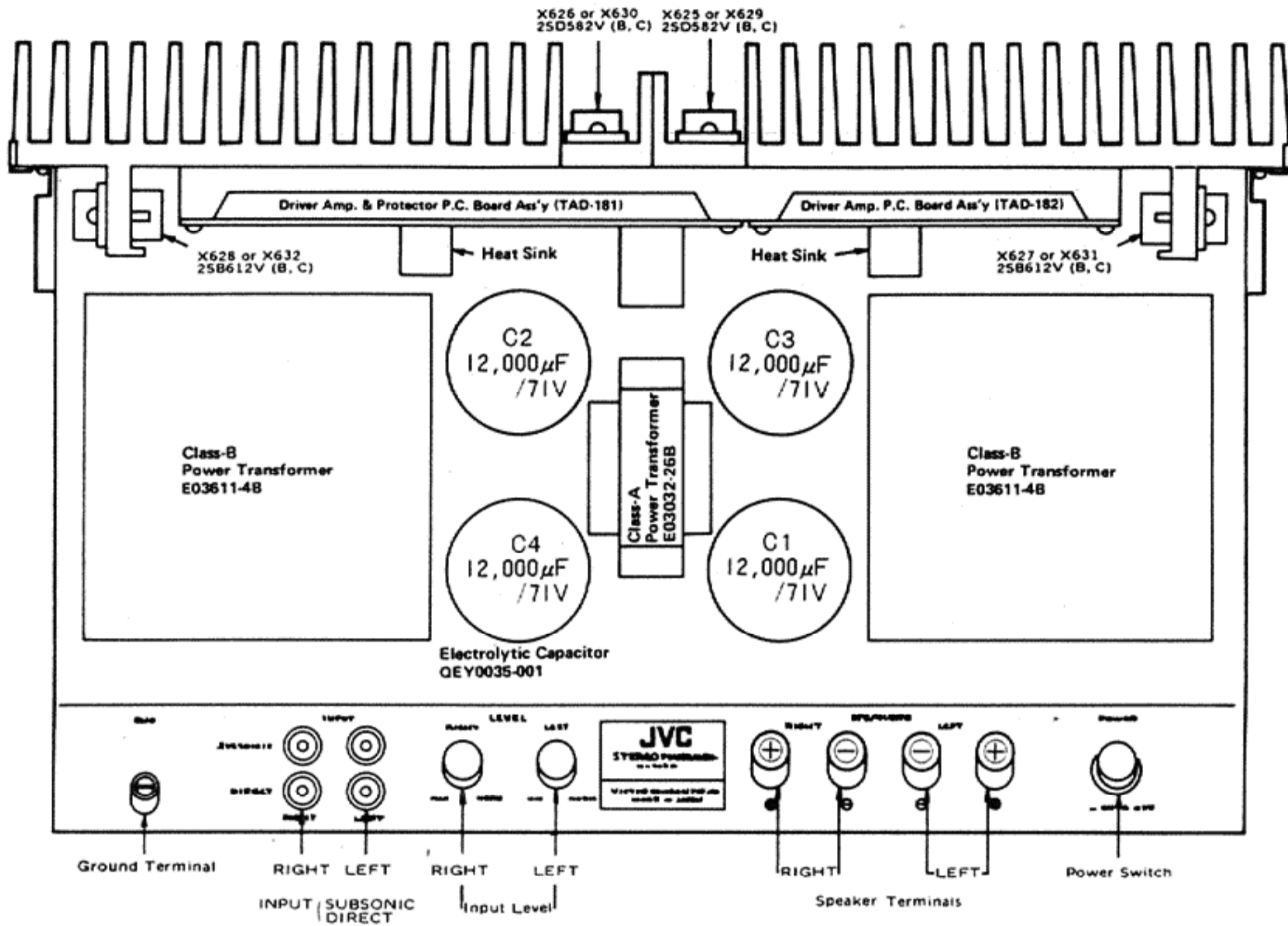


Fig. 2

4-(2) Bottom View

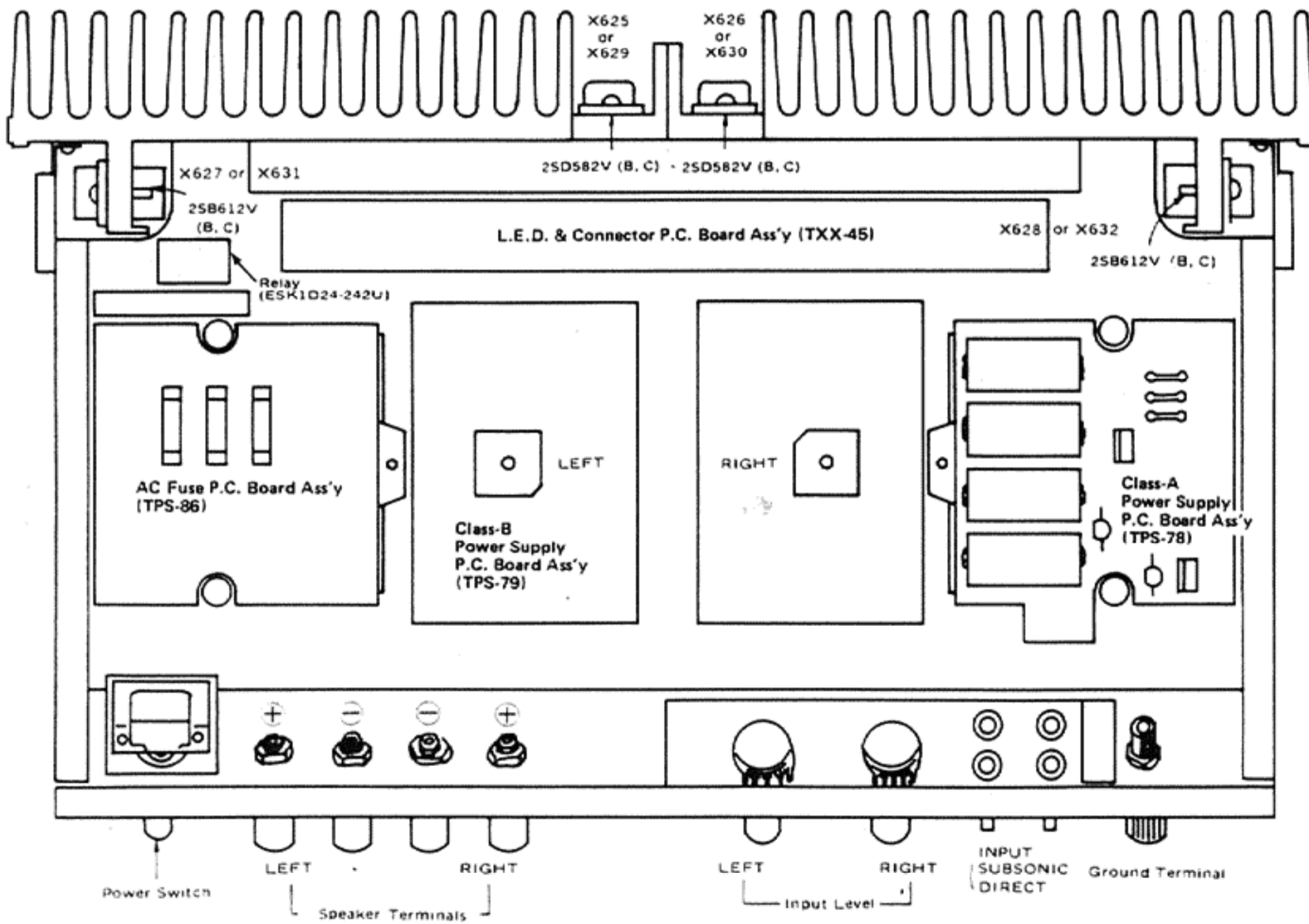


Fig. 3

5. Exploded Views and Parts List

5-(1) Top and Rear Panels

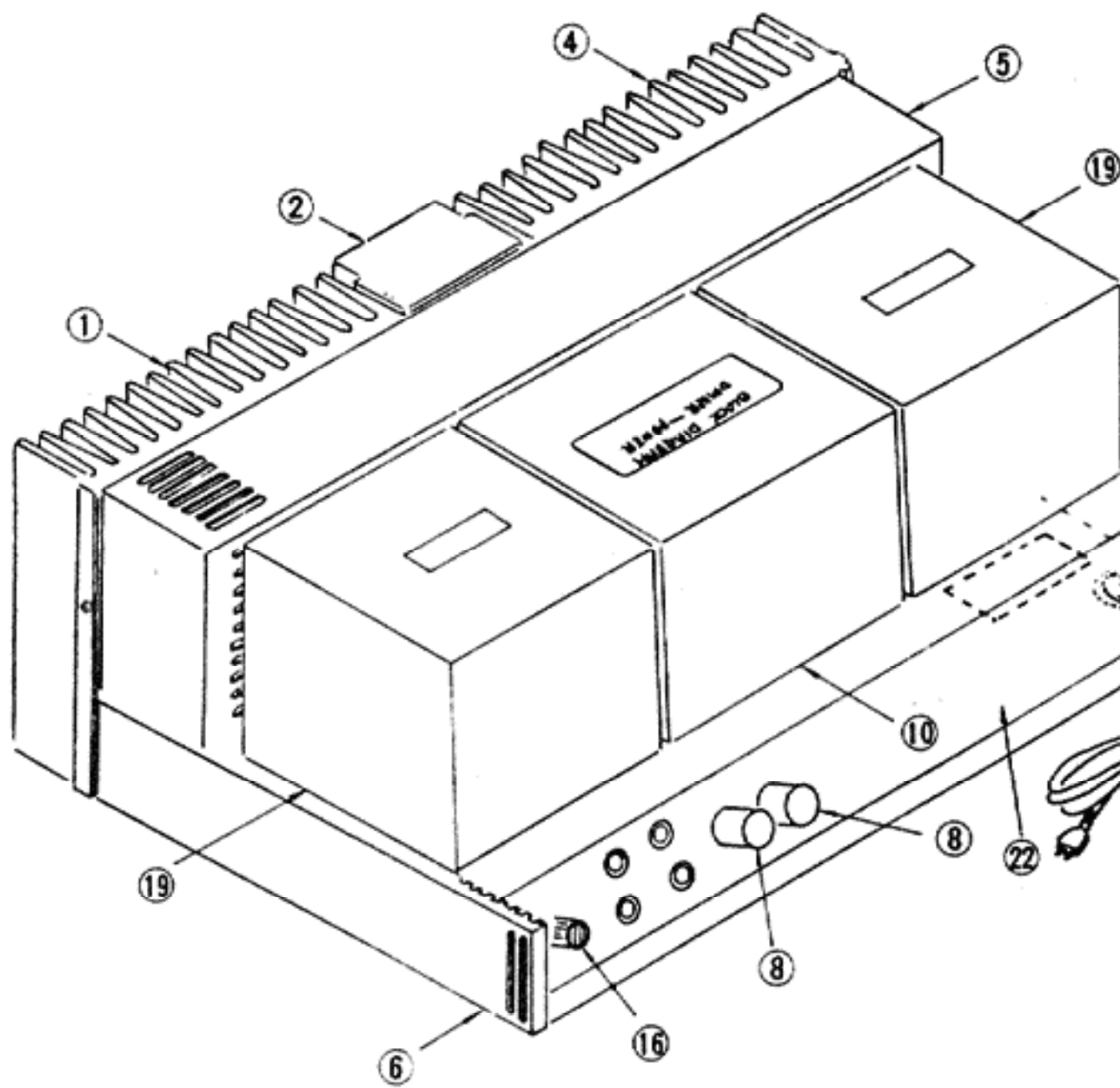


Fig. 4

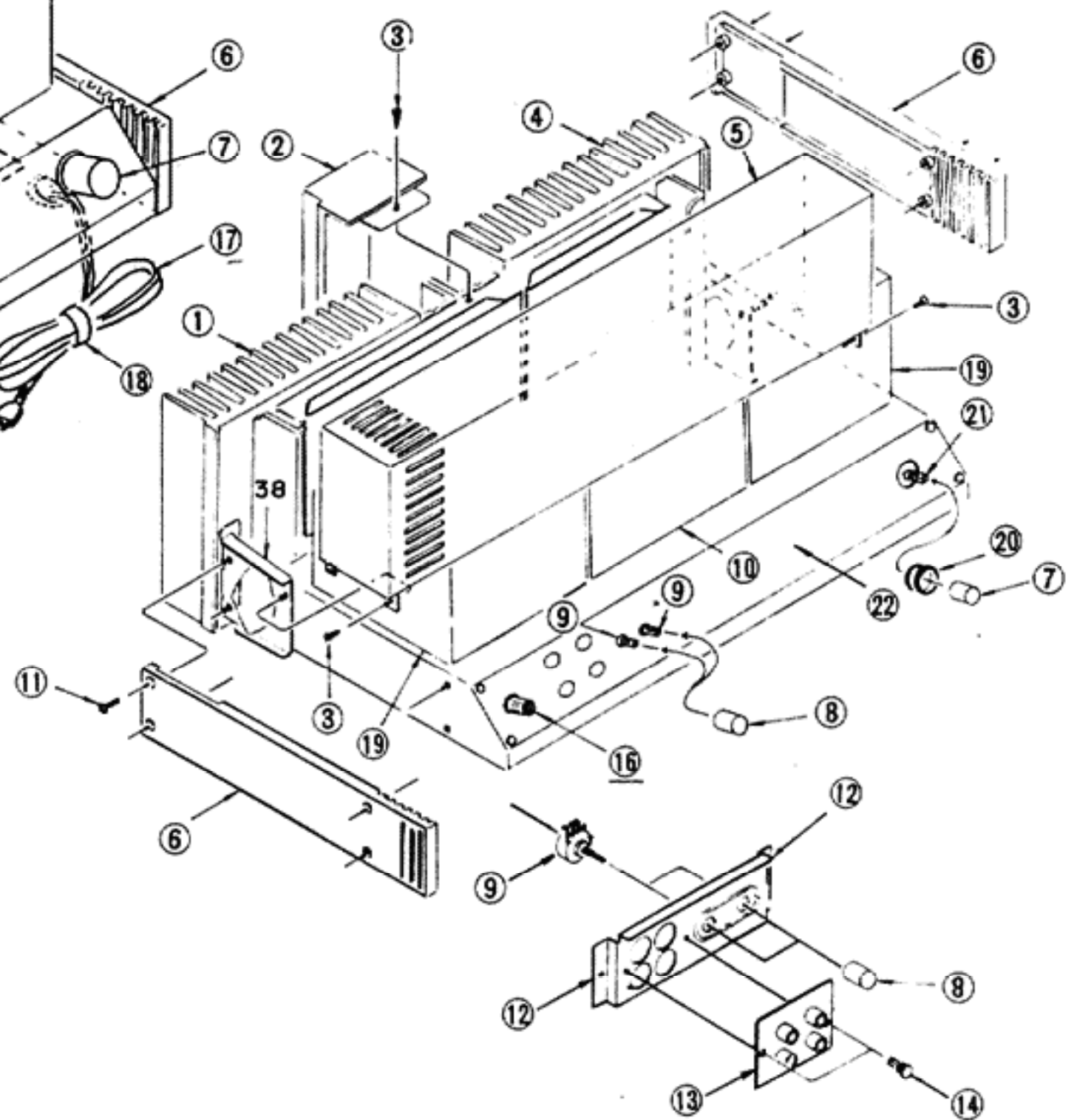


Fig. 5

| Item No. | Part Number | Rating | Description | Q'ty |
|----------|---------------|--------------------|-------------------|------|
| 1 | E10152-002 | | Heat Sink | 1 |
| 2 | E22210-003 | | Front Panel | 1 |
| 3 | SBSB3008M | | Tapping Screw | 46 |
| 4 | E10152-001 | | Heat Sink | 1 |
| 5 | E22204-001 | | P.C. Board Cover | 1 |
| 6 | E22208-001 | | Side Panel | 2 |
| 7 | E61423-001 | | Push Knob | 1 |
| 8 | E61527-001 | | Knob | 2 |
| 9 | QVF1A2B-015V | 100 k Ω (B) | Variable Resistor | 2 |
| 10 | E22206-001 | | Condenser Cover | 1 |
| 11 | SDS83012M | | Tapping Screw | 8 |
| 12 | E61420-001 | | Control Bracket | 1 |
| 13 | E03043-40B | | Pin Jack Ass'y | 1 |
| 14 | E48729-001 | | Plastic Rivet | 6 |
| 15 | E34781-001 | | Stay Bracket | 1 |
| 16 | E03619-001 | | Ground Terminal | 1 |
| 17 | (See page 21) | | Power Cord | 1 |
| 18 | E03709-001 | | Free Up Belt | 1 |
| 19 | E03611-4B | | Power Transformer | 2 |
| 20 | E47957-007 | | Escutcheon | 1 |
| 21 | QSP2111-012 | | Power Switch | 1 |
| 22 | E22203-003 | | Rear Panel | 1 |

5-(2) Heat Sink and P.C.Board Ass'y

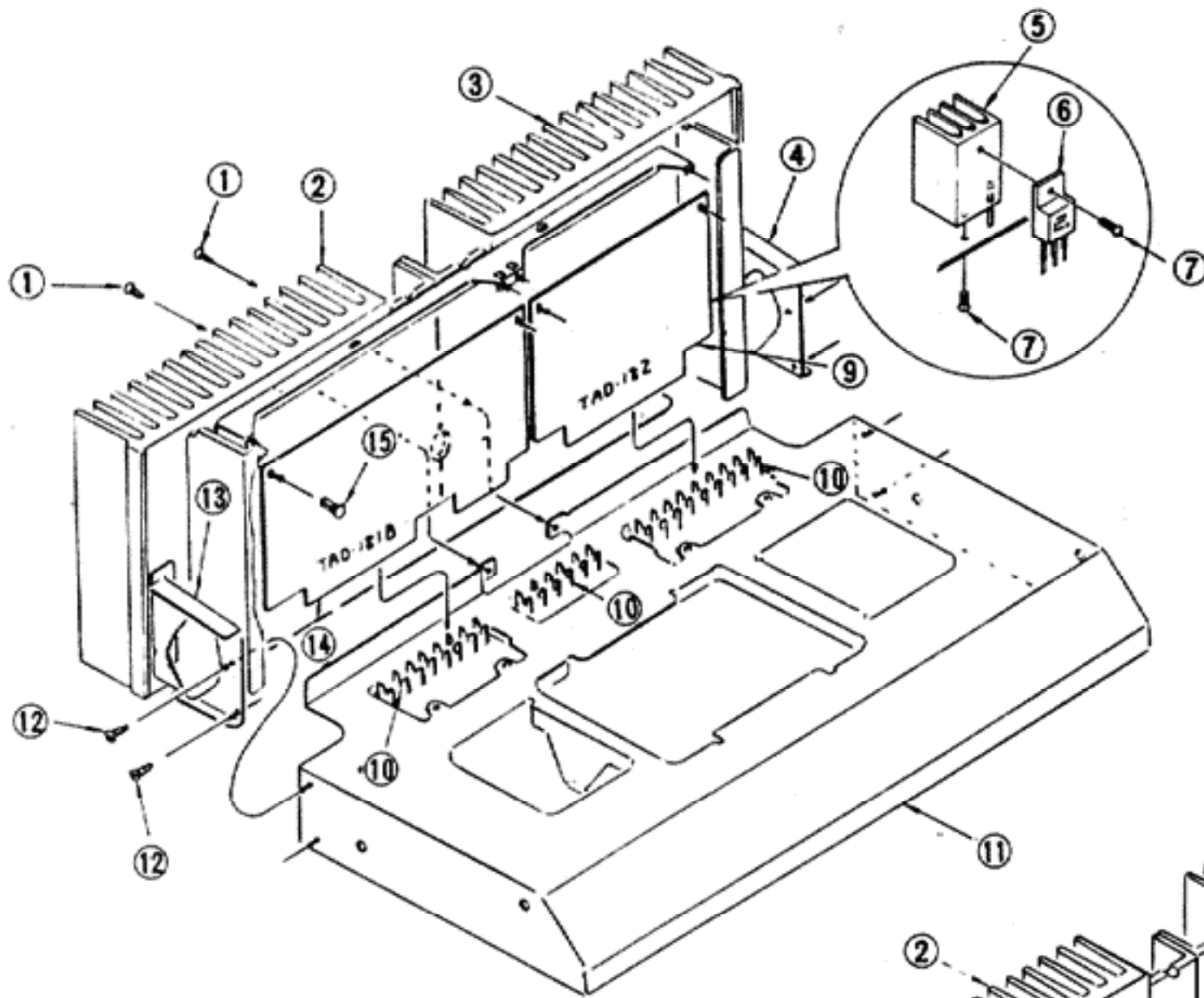


Fig. 6

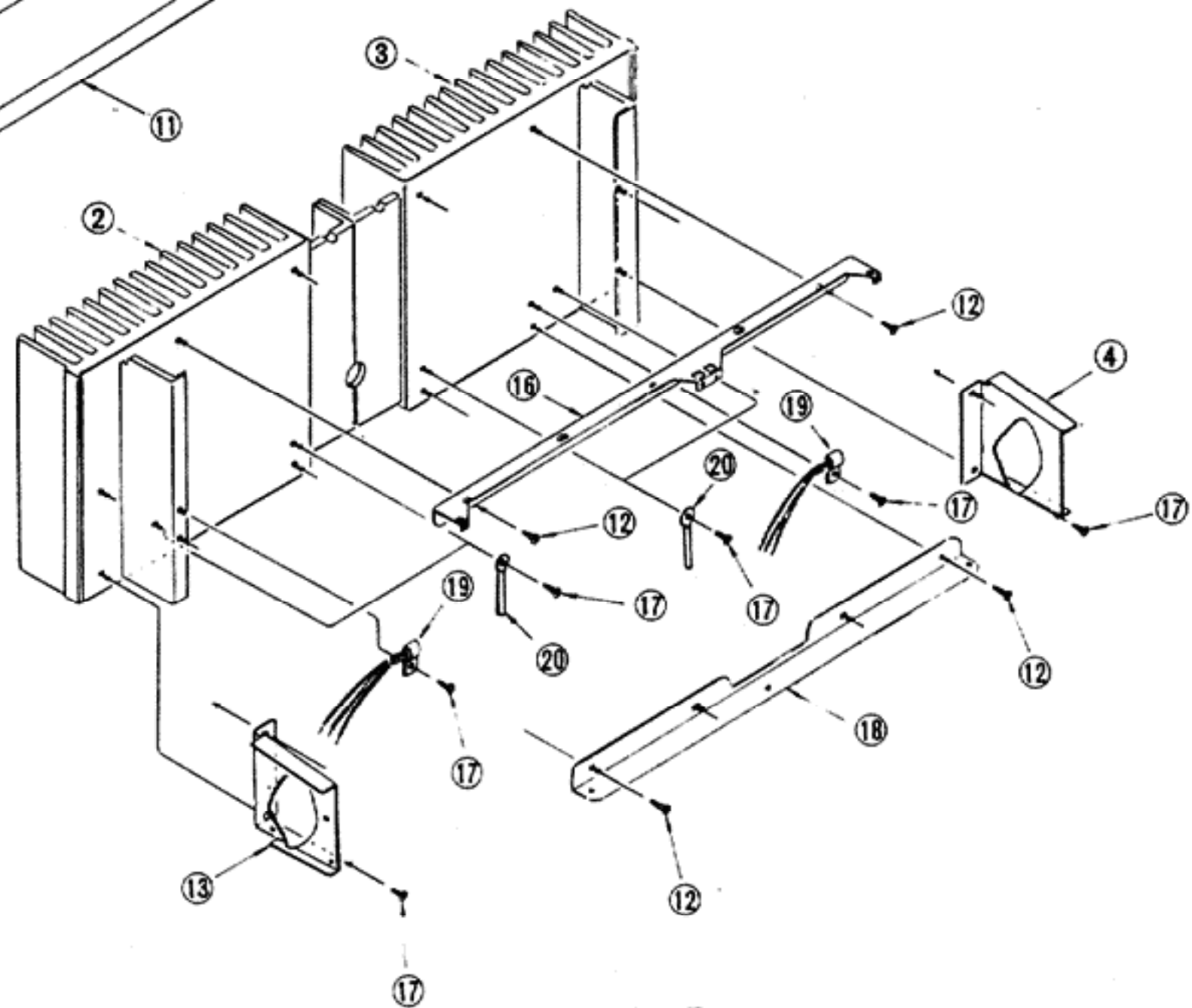
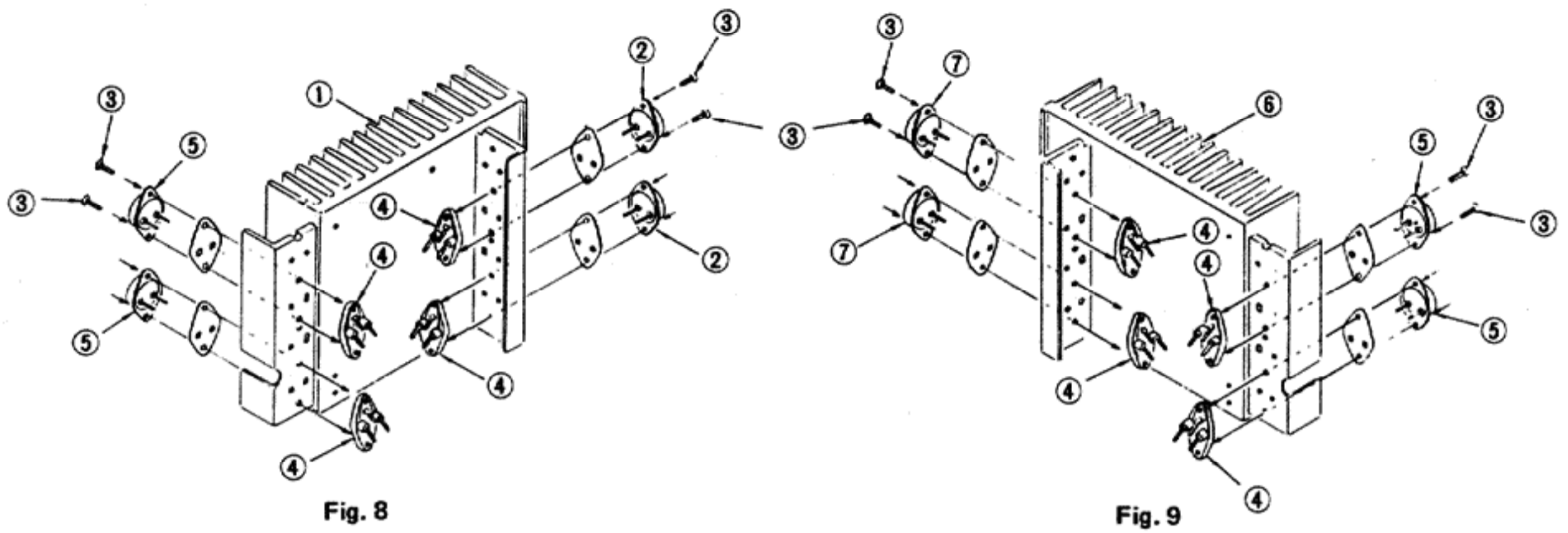


Fig. 7

| Item No. | Part Number | Rating | Description | Q'ty |
|----------|---------------------------------|--------------------|-------------------------------------|------|
| 1 | SBSB3012M | | Tapping Screw | 2 |
| 2 | E10152-002 | | Heat Sink | 1 |
| 3 | E10152-001 | | " | 1 |
| 4 | E34781-002 | | Stay Bracket | 1 |
| 5 | E61537-001 | | Heat Sink | 4 |
| 6 | 2SB536 (L, M) 2SB507V (D, E) | | Si. Transistor X623, 624, " X702 | 3 |
| 7 | SPSP3005MS | | Screw | 8 |
| 9 | TAD-182A | Driver | Driver Circuit | 1 |
| 10 | E48688-001 | | P.C. Board Ass'y Connect Pin | 45 |
| 11 | E10139-001 | | Chassis Base Ass'y | 1 |
| 12 | SSSB3008M | | Tapping Screw | 12 |
| 13 | E34781-001 | | Stay Bracket | 1 |
| 14 | TAD-181B | Driver & Protector | Driver & Protector | 1 |
| 15 | E48729-001 | | P.C. Board Ass'y Plastic Rivet | 6 |
| 16 | E34779-001 | | Support | 1 |
| 17 | SBSB3008M | | Tapping Screw | 46 |
| 18 | E34780-001 | | Support | 1 |
| 19 | 2SC853 (L) | | Si. Transistor X619, 620 | 2 |
| 20 | E50670-005 | | Wire Clamp | 4 |

5-(3) Heat Sink and Power Transistors



| Item No. | Part Number | Rating | Description | Q'ty |
|----------|----------------|--------|-------------------|------|
| 1 | E10152-001 | | Heat Sink | 1 |
| 2 | 2SB612V (B, C) | | Transistor | 4 |
| 3 | LPSP3020NS | | Ass'y Screw | 16 |
| 4 | E03624-001 | | Transistor Socket | 8 |
| 5 | 2SD582V (B, C) | | Transistor | 4 |
| 6 | E10152-002 | | Heat Sink | 1 |
| 7 | 2SB536 (L, M) | | Transistor | 1 |

5-(4) Bottom Plate

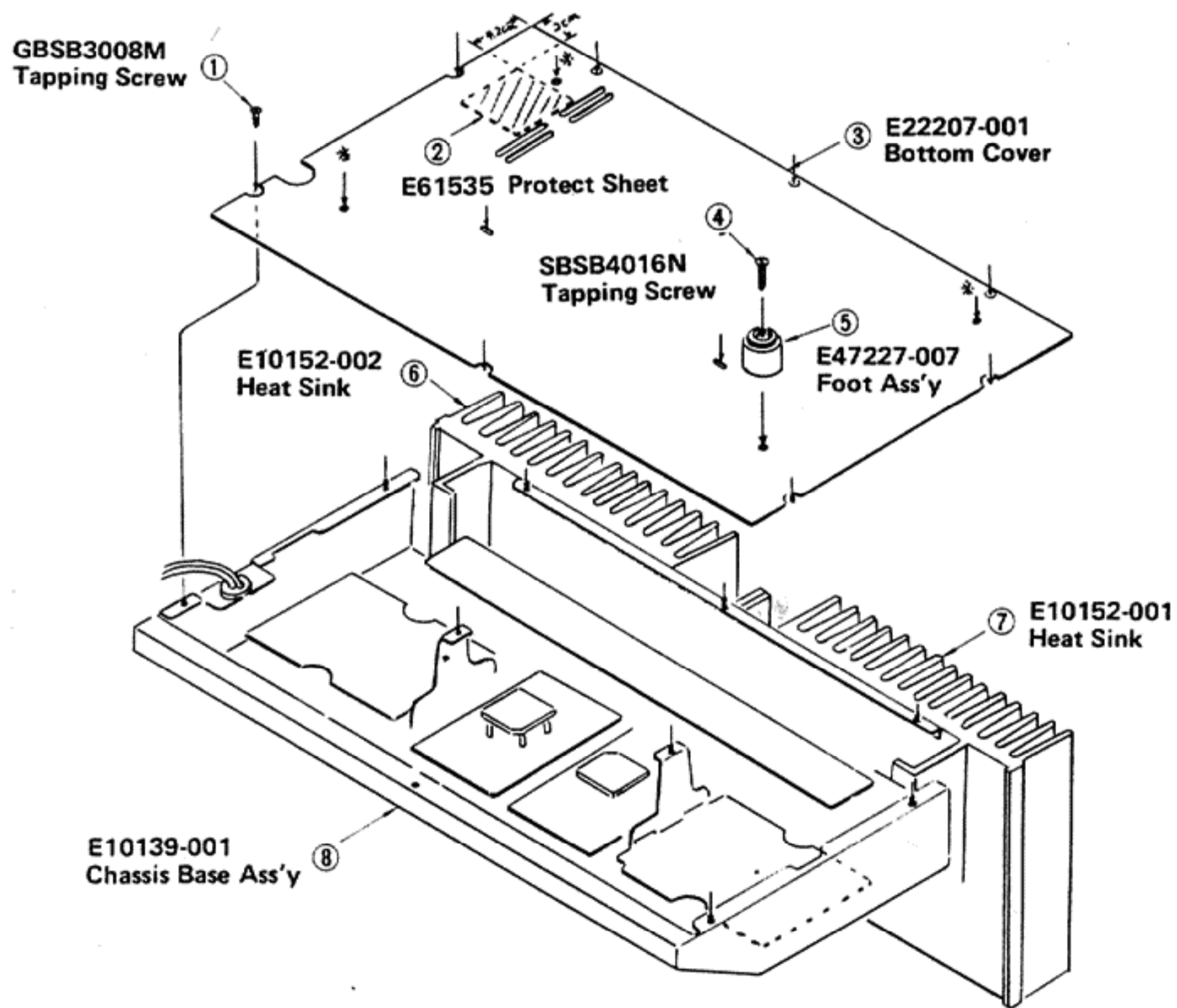


Fig. 10

6. Adjustment Procedures

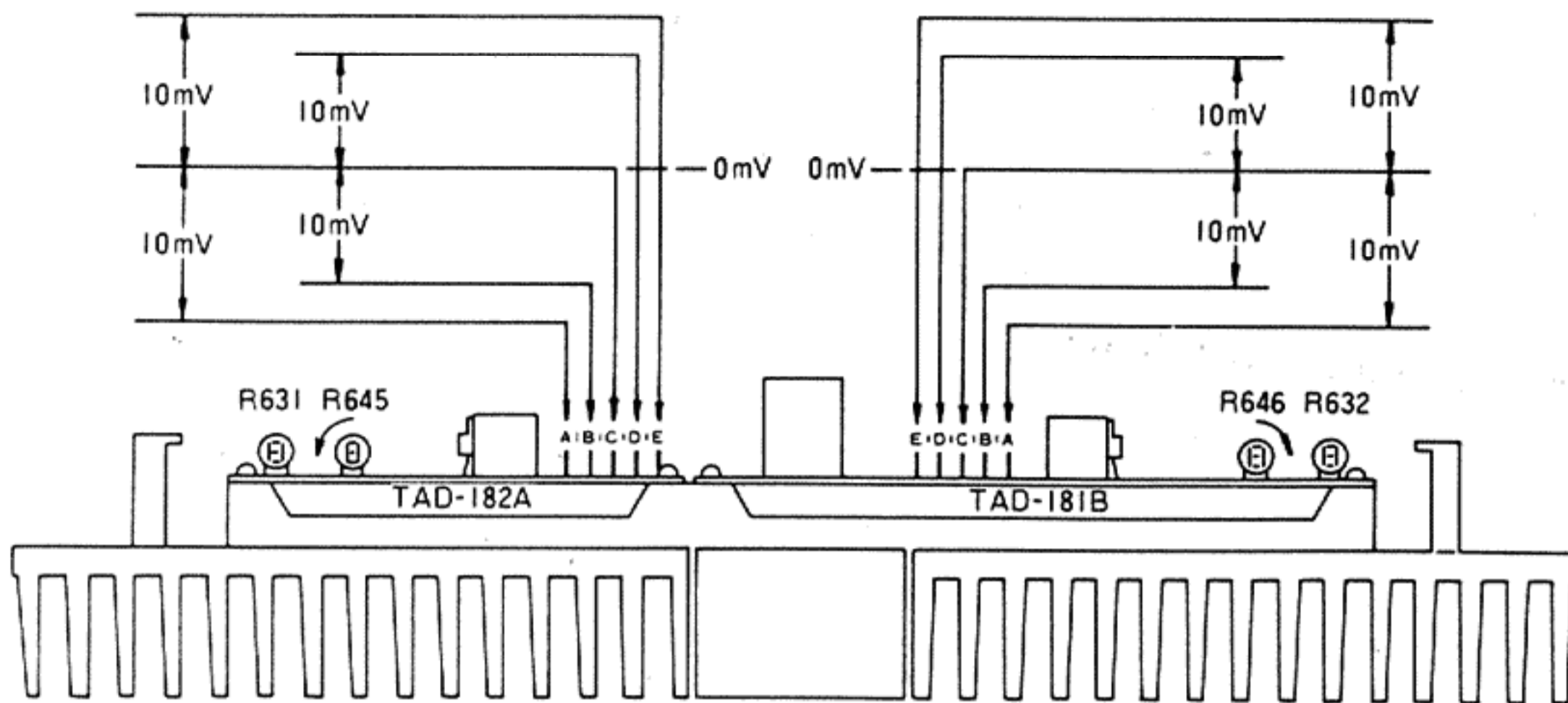


Fig. 11

6-(1) Center Voltage (See Fig. 12)

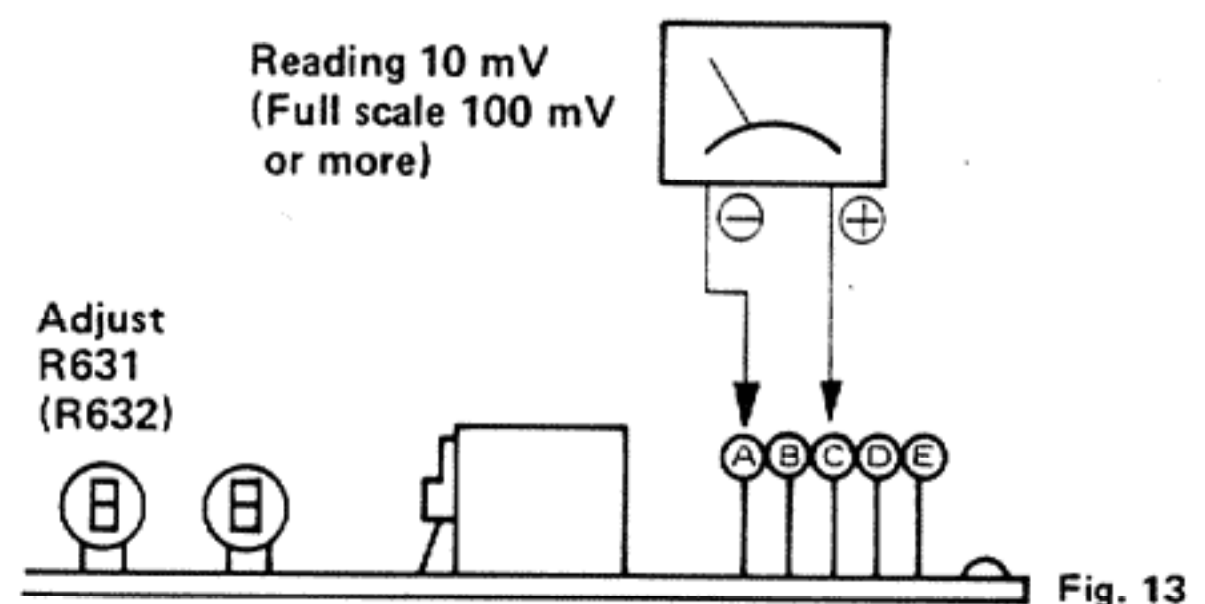
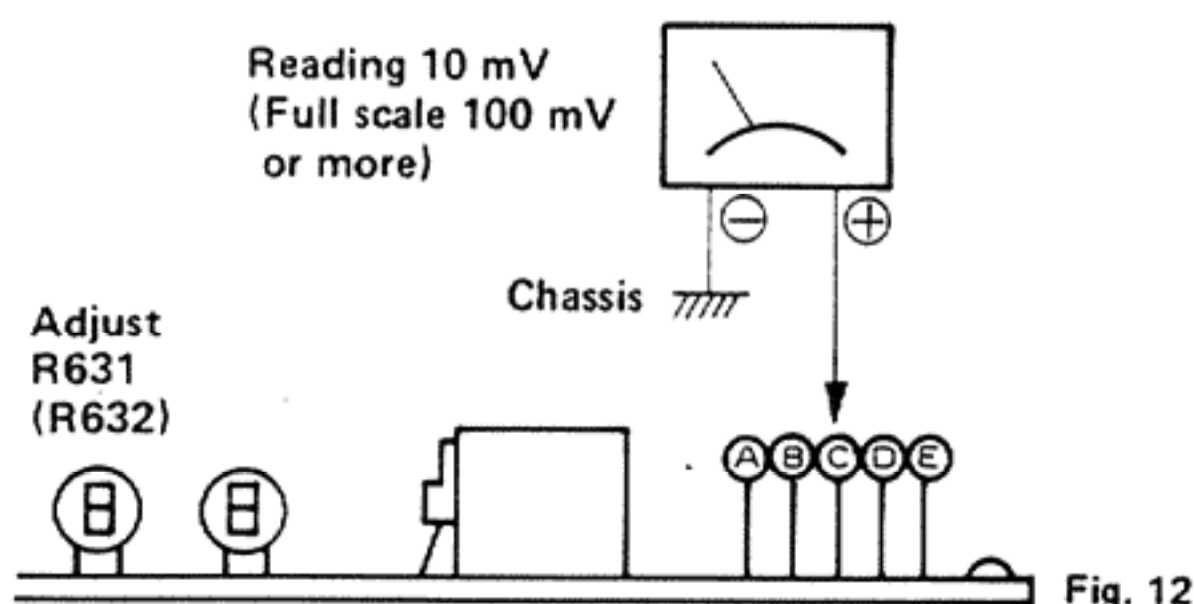
1. Adjust R631 (or R632) to the midpoint before turning power on.
2. Connect a voltmeter providing accurate voltages readings below 10 mV between test point C and the chassis of TAD-182 and 181 respectively, with the plus lead to point C and minus lead to the chassis. Then turn power on.
3. Turn R631 (or R632) little by little until the voltmeter reads 0 V.

Note: Speaker terminals may be used in place of test point C.

6-(2) Idling Current (See Fig. 13)

1. Turn the R645 (or 646) fully in the opposite direction to the arrow.
2. Five to six minutes after turning power on, connect the voltmeter minus leads to test point C (or the speaker plus terminal) and the plus lead to test point E (of both TAD-182 and 181) then slowly turn the resistor in the direction of the arrow until the voltmeter reads 10 mV.
3. Check that the voltage between test point C (or the speaker plus terminal) and test point D is approximately 10 mV. Reverse the voltmeter polarity and check that the voltage between test point C (or the speaker plus terminal) and test point A is nearly equal to that between test point C and test point B.
4. After adjusting TAD-182 and 181, recheck the channel first adjusted. If it is out of adjustment, repeat the adjustment. (Adjustment repeated two or three times alternately for L and R is sufficient.)
5. The idle current has now been adjusted to 20 mA (13–32 mA).

| Test point | A | B | C | D | E | Power transistor | Adjust to: |
|----------------|---|---|---|---|---|------------------|------------|
| Center voltage | ○ | | | | | | 0 mV |
| Idling current | ○ | ○ | | | | X625 (or X626) | 10 mV |
| | ○ | | ○ | | | X629 (or X630) | |
| | ○ | | | ○ | | X627 (or X628) | |
| | ○ | | | | ○ | X631 (or X632) | |



7. Wiring Diagram of All P.C. Board Assemblies

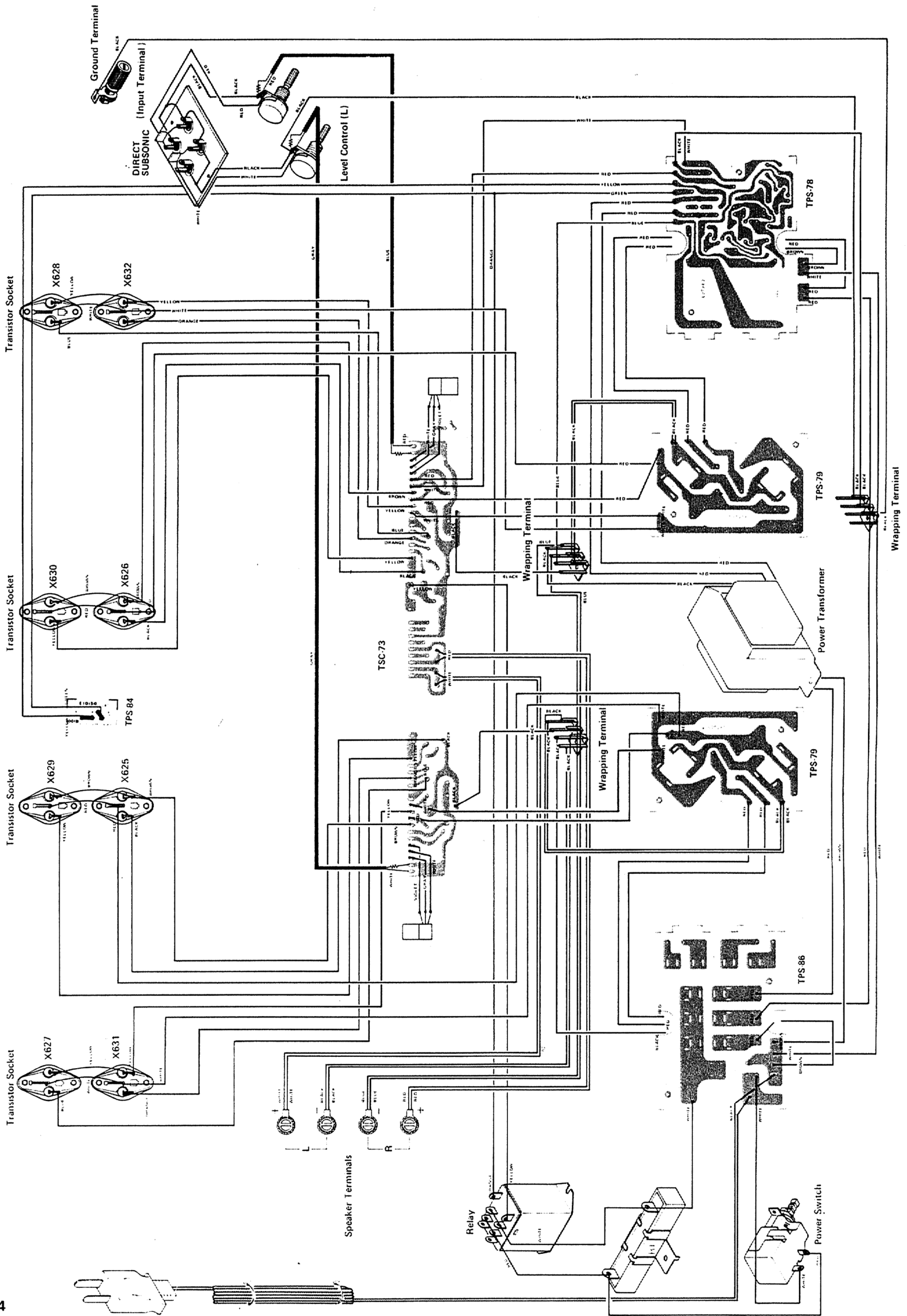


Fig. 14

8 Printed Circuit Board Ass'y and Parts List

8-(1) TXX-45 L.E.D. and Connector P.C.Board Ass'y

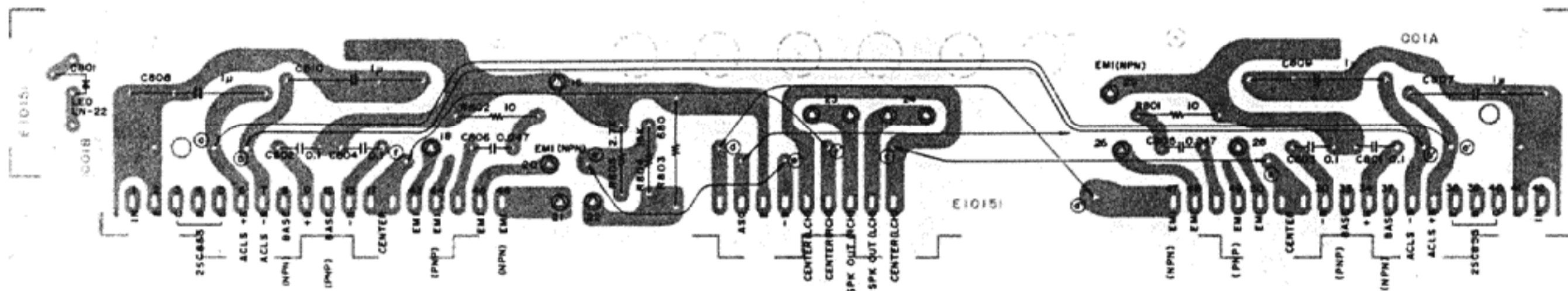


Fig. 15

Capacitors

| Item No. | Part Number | Rating | | Description |
|----------|----------------|---------------|-------|-----------------|
| C801 | QFM42AK-104 | 0.1 μ F | 100 V | Mylar |
| C802 | QFM42AK-104 | " | " | " |
| C803 | QFM42AK-104 | " | " | " |
| C804 | QFM42AK-104 | " | " | " |
| C805 | QFM42AK-473 | 0.047 μ F | 100 V | " |
| C806 | QFM42AK-473 | " | " | " |
| C807 | CF93MMA2E-105K | 1 μ F | 250 V | Metalized Mylar |
| C808 | CF93MMA2E-105K | " | " | " |
| C809 | CF93MMA2E-105K | " | " | " |
| C810 | CF93MMA2E-105K | " | " | " |

Resistors

| Item No. | Part Number | Rating | | Description |
|----------|--------------|----------------|-------|----------------------|
| R801 | QRX017J-100S | 100 Ω | 1 W | Uninflammable O.M.F. |
| R802 | QRX017J-100S | " | " | " |
| R803 | QRG027J-681 | 680 Ω | 2 W | " |
| R804 | QRD141J-153 | 1.5 k Ω | 1/4 W | Carbon |
| R805 | QRD141J-272 | 2.7 k Ω | " | " |

Circuit Board & Others

| Item No. | Part Number | Rating | Description |
|----------|-------------|--------|------------------------|
| | E10151-001 | | Circuit Board |
| | E43727-002 | | Tab |
| | 52868-3 | | Terminal |
| | LN-22 | | L.E.D. (for indicator) |
| | E49578-001 | | L.E.D. Holder |

8-(2) TPS-78 Class-A Power Supply P.C.Board Ass'y

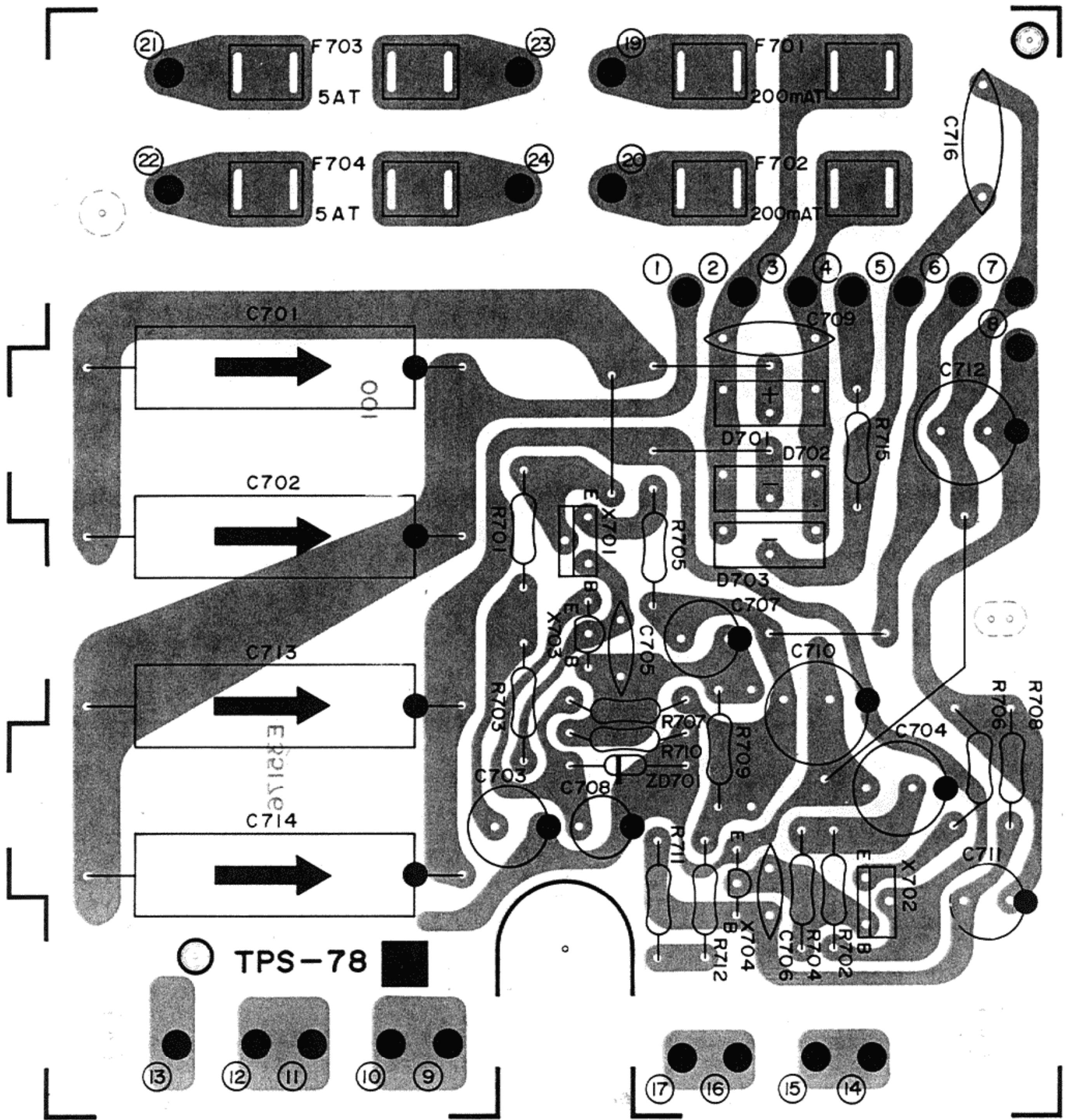


Fig. 16

Transistors

| Item No. | Part Number | Rating | | Description | Maker |
|----------|------------------|--------|---------|---------------|---------|
| | | Pc | fT | | |
| X701 | 2SD313V (D, E) | 20 W | 8 MHz | Silicon (NPN) | Sanyo |
| X702 | 2SB507V (D, E) | " | " | " (PNP) | " |
| X703 | 2SC1775AV (E, F) | 300 mW | 200 MHz | " (NPN) | Hitachi |
| X704 | 2SA872AV (D, E) | " | " | " (PNP) | " |

Diodes

| Item No. | Part Number | Rating | | Description | Maker |
|----------|-------------|--------|--|-------------|------------|
| D701 | ESAB02-02C | | | Silicon | Fuji Denki |
| D702 | ESAB02-02N | | | " | " |
| D703 | ESAB02-02N | | | " | " |
| ZD701 | WZ-130 | 13 V | | Zener | JRC |

Capacitors

| Item No. | Part Number | Rating | | Description |
|----------|-------------|---------------|-------|-----------------|
| C701 | QEW22AA-107 | 100 μ F | 100 V | Electrolytic |
| C702 | QEW22AA-107 | " | " | " |
| C703 | QEW51JA-476 | 47 μ F | 63 V | " |
| C704 | QEW51JA-476 | " | " | " |
| C705 | QCS31HJ-331 | 330 pF | 50 V | Ceramic |
| C706 | QCS31HJ-331 | " | " | " |
| C707 | QEW51HA-106 | 10 μ F | " | Electrolytic |
| C708 | QEW51EA-106 | " | 25 V | " |
| C709 | QFZ0075-223 | 0.022 μ F | 600 V | Metalized Mylar |
| C710 | QEW51JA-107 | 100 μ F | 63 V | Electrolytic |
| C711 | QEW51JA-106 | 10 μ F | " | " |
| C712 | QEW51JA-107 | 100 μ F | " | " |
| C713 | QEW22AA-107 | 100 μ F | 100 V | " |
| C714 | QEW22AA-107 | " | " | " |
| C716 | QFH42AK-224 | 0.22 μ F | 100 V | Metalized Mylar |

Resistors

| Item No. | Part Number | Rating | | Description |
|----------|-------------|----------------|-------|----------------|
| R701 | QRD126J-392 | 3.9 k Ω | 1/2 W | Si. Transistor |
| R702 | QRD141J-392 | " | 1/4 W | Carbon |
| R703 | QRD126J-471 | 470 Ω | 1/2 W | Si. Transistor |
| R704 | QRD141J-471 | " | 1/4 W | Carbon |
| R705 | QRD126J-100 | 10 Ω | 1/2 W | Si. Transistor |
| R706 | QRD126J-100 | " | " | " |
| R707 | QRD126J-682 | 6.8 k Ω | " | " |
| R708 | QRD141J-473 | 47 k Ω | 1/4 W | Carbon |
| R709 | QRD141J-393 | 39 k Ω | " | " |
| R710 | QRD141J-153 | 15 k Ω | " | " |
| R711 | QRD141J-182 | 1.8 k Ω | " | " |
| R712 | QRD141J-473 | 47 k Ω | " | " |
| R715 | QRD141J-680 | 68 Ω | " | " |

Circuit Board & Others

| Item No. | Part Number | Rating | Description |
|----------|-------------|--------|---------------|
| | E34759-002 | | Circuit Board |
| | E43727-002 | | Tab |
| | E48965-002 | | Fuse Clip |

8-(3) TPS-79 Class-B Power Supply P.C.Board Ass'y

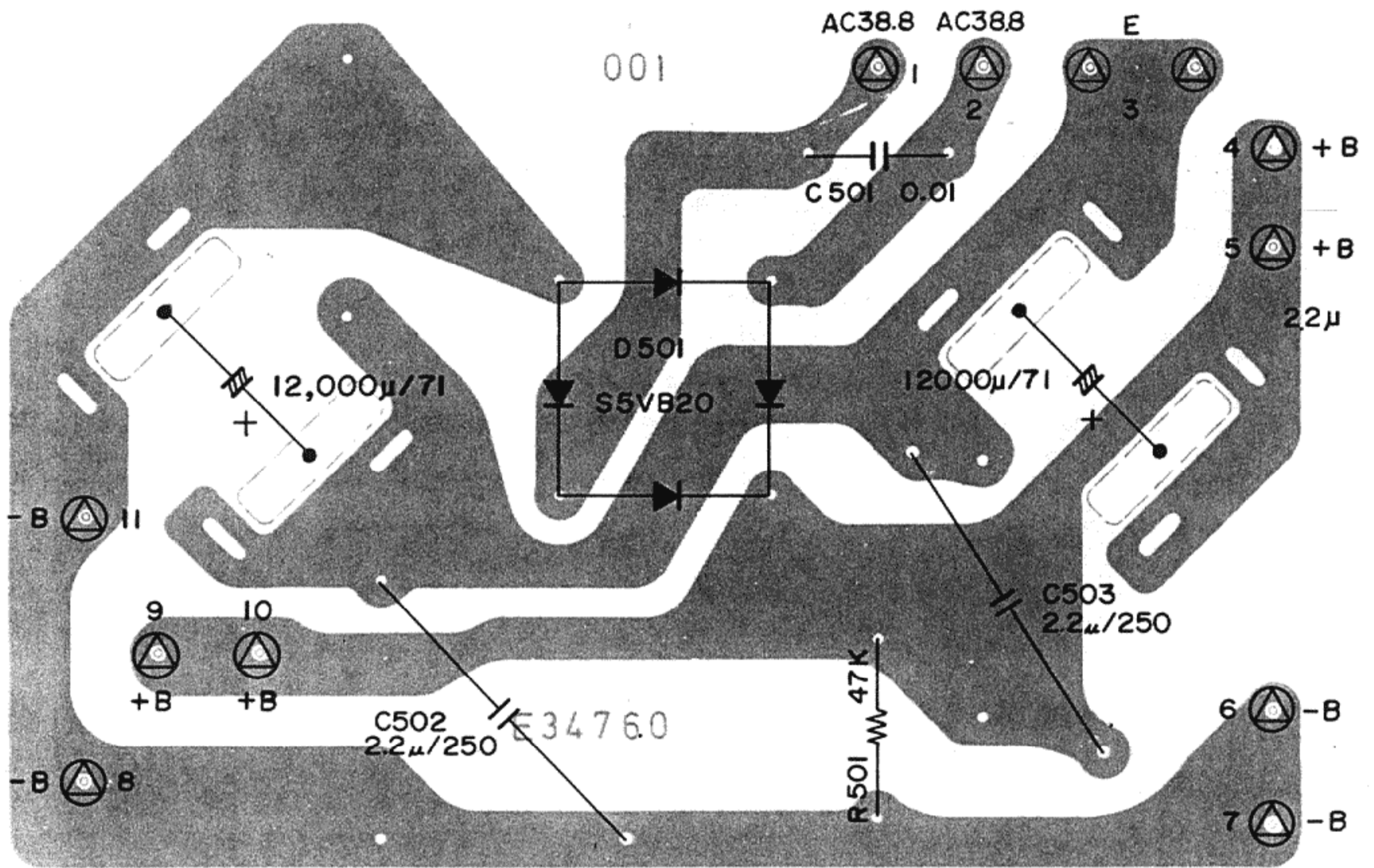


Fig. 17

Diodes

| Item No. | Part Number | Rating | Description | Maker |
|----------|-------------|--------|-------------|------------|
| D501 | S5VB20 | 5 A | Bridge | Shindengen |

Capacitors

| Item No. | Part Number | Rating | Description |
|----------|----------------|---------------------|-----------------|
| C501 | CF93MMA2G-223K | 0.022 μ F 400 V | Metatized Mylar |
| C502 | MDD-2E-225K | 2.2 μ F 50 V | " |
| C503 | MDD-2E-225K | " " | " |

Resistors

| Item No. | Part Number | Rating | Description |
|----------|-------------|---------------------|--------------------|
| R501 | QRG129J-473 | 47 k Ω 1/2 W | Unflammable O.M.F. |

Circuit Board & Others

| Item No. | Part Number | Rating | Description | Q'ty |
|----------|-------------|--------|---------------|------|
| | E34760-001 | | Circuit Board | 2 |
| | E40130-001 | | Tab | 16 |
| | E43727-002 | | " | 22 |

8-(4) TPS-86 AC Fuse P.C.Board Ass'y

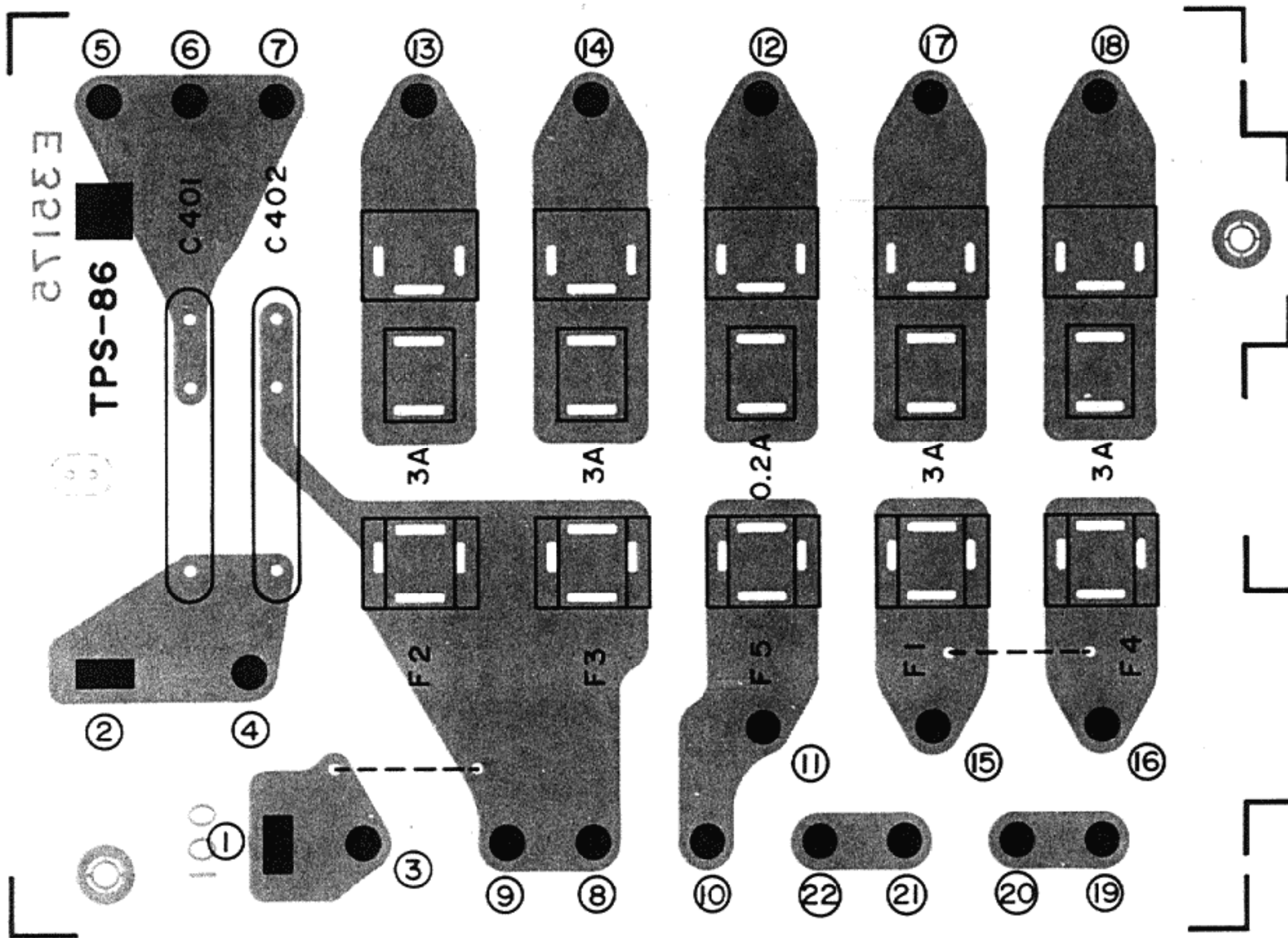


Fig. 18

Capacitors

| Item No. | Part Number | Rating | Description |
|----------|-------------|---------------------|-----------------|
| C401 | QFH53AM-103 | 0.01 μ F 1000 V | Matalized Mylar |
| C402 | QFH53AM-103 | " " | " |

Circuit Board & Others

| Item No. | Part Number | Rating | Description | Q'ty |
|----------|-------------|--------|---------------|------|
| | E34758-002 | | Circuit Board | 1 |
| | E40130 | | Tab | 2 |
| | E43727-002 | | Tab | 12 |
| | E45524-001 | | Contact clip | 10 |

8-(5) TAD-181 Driver Amp. & Protector P.C.Board Ass'y

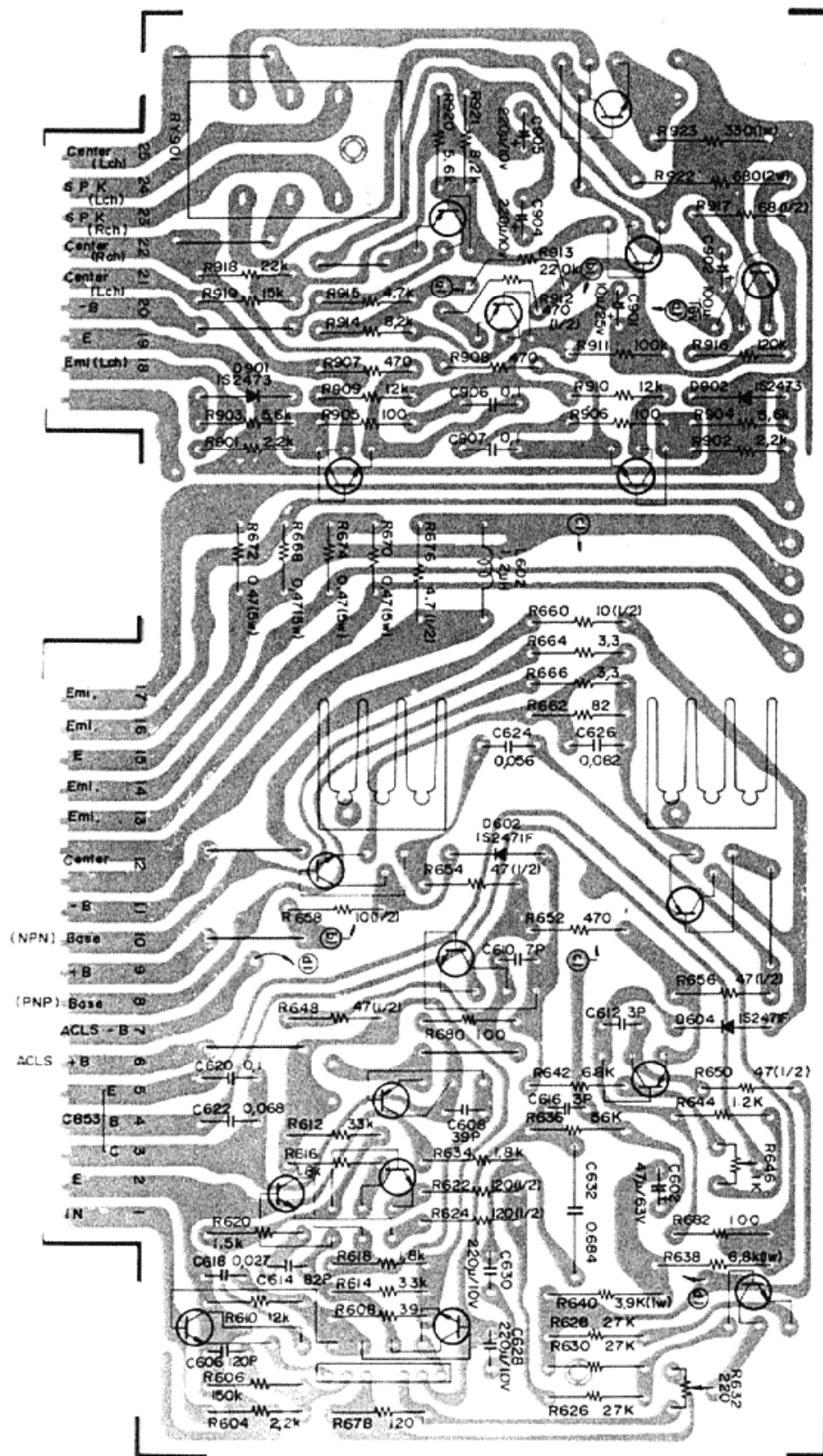


Fig. 19

Transistors & IC

| Item No. | Part Number | Rating | | Description | Maker |
|----------|----------------|---------|---------|---------------|---------|
| | | Pc | fT | | |
| IC602 | MPA63H1 | 250 mW | | I.C. | NEC |
| X604 | 2SC1775AV (F) | 300 mW | 200 MHz | Silicon (NPN) | Hitachi |
| X606 | 2SC1775AV (F) | " | " | " " | " |
| X608 | 2SC1775AV (F) | " | " | " " | " |
| X610 | 2SC1775AV (F) | " | " | " " | " |
| X612 | 2SC1775AV (F) | " | " | " " | " |
| X614 | 2SA899 (B, V) | 1000 mW | 100 MHz | " (PNP) | Fuji |
| X616 | 2SC1904 (B, V) | " | " | " (NPN) | " |
| X618 | 2SA899 (B, V) | " | " | " (PNP) | " |
| X622 | 2SD381 (L, M) | 20 W | 60 MHz | " (NPN) | NEC |
| X624 | 2SB536 (L, M) | " | " | " (PNP) | " |

Transistors & IC

| Item No. | Part Number | Rating | | Description | Maker |
|----------|---------------|--------|---------|-------------|---------|
| | | Pc | fT | | |
| X901 | 2SC1775AV (F) | 300 mW | 200 MHz | " (NPN) | Hitachi |
| X902 | 2SC1775AV (F) | " | " | " " | " |
| X903 | 2SC1775AV (F) | " | " | " " | " |
| X904 | 2SC1775AV (F) | " | " | " " | " |
| X905 | 2SA872AV (E) | " | " | " (PNP) | " |
| X906 | 2SA872AV (E) | " | " | " " | " |
| X907 | 2SD438 (E) | 750 mW | 100 MHz | " (NPN) | Sanyo |

Diodes

| Item No. | Part Number | | | Maker |
|----------|-------------|--|--|------------|
| D602 | 1S2471F | | | Toyo Dengu |
| D604 | 1S2471F | | | " |
| D901 | 1S2473 | | | " |
| D902 | 1S2473 | | | " |

Capacitors

| Item No. | Part Number | Rating | | Description |
|----------|----------------|----------------|-------|-----------------|
| C602 | QEW51JA-476 | 47 μ F | 63 V | Electrolytic |
| C608 | QCS12HJ-330 | 33 pF | 100 V | Ceramic |
| C610 | QCS12HJ-7R0 | 7 pF | " | " |
| C612 | QCS12HJ-3R0 | 3 pF | " | " |
| C614 | QFM31HK-562 | 0.0056 μ F | 50 V | Mylar |
| C618 | QFM31HK-273 | 0.027 μ F | " | " |
| C620 | QFM31HK-104 | 0.1 μ F | " | " |
| C622 | QFM31HK-683 | 0.068 μ F | " | " |
| C624 | QFM31HK-563 | 0.056 μ F | " | " |
| C626 | QFM31HK-823 | 0.082 μ F | " | " |
| C628 | QEW51AA-227 | 220 μ F | 10 V | Electrolytic |
| C630 | QEW51AA-227 | " | " | " |
| C632 | CF93MMA2E-684K | 0.68 μ F | 250 V | Metalized Mylar |
| C634 | QCS31HJ-180 | 18 pF | 50 V | Ceramic |
| C636 | QCS12HJ-1R0 | 1 pF | 100 V | " |
| C901 | QEW51EA-106 | 10 μ F | 25 V | Electrolytic |
| C902 | QEW51CA-107 | 100 μ F | 16 V | " |
| C904 | QEW51AA-227 | 220 μ F | 10 V | " |
| C905 | QEW51AA-227 | " | " | " |
| C906 | QFM31HK-104 | 0.1 μ F | 50 V | Mylar |
| C907 | QFM31HK-104 | " | " | " |

Resistors

| Item No. | Part Number | Rating | | Description |
|----------|-------------|----------------|-------|--------------------|
| R602 | QRZ0019-104 | 100 k Ω | 1/4 W | Carbon Low Noise |
| R604 | QRZ0019-222 | 2.2 k Ω | " | " " |
| R606 | QRZ0019-154 | 150 k Ω | " | " " |
| R608 | QRZ0019-393 | 39 k Ω | " | " " |
| R610 | QRZ0019-123 | 12 k Ω | " | " " |
| R612 | QRZ0019-333 | 33 k Ω | " | " " |
| R614 | QRZ0019-333 | " | " | " " |
| R616 | QRZ0019-182 | 1.8 k Ω | " | " " |
| R618 | QRZ0019-182 | " | " | " " |
| R620 | QRD141J-562 | 5.6 k Ω | " | " |
| R622 | QRD126J-121 | 120 Ω | 1/2 W | Unflammable Carbon |
| R624 | QRD126J-121 | " | " | " |
| R626 | QRZ0019-273 | 27 k Ω | 1/4 W | Carbon Low Noise |
| R628 | QRZ0019-273 | " | " | " " |

Resistors

| Item No. | Part Number | Rating | | Description |
|----------|--------------|-----------|-------|----------------------|
| R630 | QRZ0019-273 | 27 kΩ | 1/4 W | Carbon Low Noise |
| R632 | QVP9A0B-221 | 220 Ω (B) | 1/8 W | Variable Semi Fix |
| R634 | QRZ0019-182 | 1.8 kΩ | 1/4 W | Carbon Low Noise |
| R636 | QRZ0019-563 | 56 kΩ | " | " " |
| R638 | QRG017J-682S | 6.8 kΩ | 1 W | Uninflammable O.M.F. |
| R640 | QRG017J-392S | 3.9 kΩ | " | " |
| R642 | QRZ0019-682 | 6.8 kΩ | 1/4 W | Carbon Low Noise |
| R644 | QRZ0019-122 | 1.2 kΩ | " | " " |
| R646 | QVP9A0B-102 | 1 kΩ (B) | 1/8 W | Variable Semi Fix |
| R648 | QRG129J-470 | 47 Ω | 1/2 W | Uninflammable O.M.F. |
| R650 | QRG129J-470 | " | " | " |
| R652 | QRD141J-471 | 470 Ω | 1/4 W | Carbon |
| R654 | QRD141J-470 | 47 Ω | " | " |
| R656 | QRD141J-470 | " | " | " |
| R658 | QRX129J-100 | 10 Ω | 1/2 W | Uninflammable M.F. |
| R660 | QRX129J-100 | " | " | " |
| R662 | QRD141J-820 | 82 Ω | 1/4 W | Carbon |
| R664 | QRD141J-3R3 | 3.3 Ω | " | " |
| R666 | QRD141J-3R3 | " | " | " |
| R668 | QRM054K-R47S | 0.47 Ω | 5 W | Metal Planer Cement |
| R670 | QRM054K-R47S | " | " | " " |
| R672 | QRM054K-R47S | " | " | " " |
| R674 | QRM054K-R47S | " | " | " " |
| R676 | QRX129J-4R7 | 4.7 Ω | 1/2 W | Uninflammable M.F. |
| R678 | QRD141J-121 | 120 Ω | 1/4 W | Carbon |
| R680 | QRD141J-101 | 100 Ω | " | " |
| R682 | QRD141J-101 | " | " | " |
| R901 | QRD141J-222 | 2.2 kΩ | " | " |
| R902 | QRD141J-222 | " | " | " |
| R903 | QRD141J-562 | 5.6 kΩ | " | " |
| R904 | QRD141J-562 | " | " | " |
| R905 | QRD141J-101 | 100 Ω | " | " |
| R906 | QRD141J-101 | " | " | " |
| R907 | QRD141J-471 | 470 Ω | " | " |
| R908 | QRD141J-471 | " | " | " |
| R909 | QRD141J-123 | 12 kΩ | " | " |
| R910 | QRD141J-123 | " | " | " |
| R911 | QRD141J-104 | 100 kΩ | " | " |
| R912 | QRD126J-471 | 470 Ω | 1/2 W | Uninflammable Carbon |
| R913 | QRD141J-224 | 220 kΩ | 1/4 W | Carbon |
| R914 | QRD141J-822 | 8.2 kΩ | " | " |
| R915 | QRD141J-472 | 4.7 kΩ | " | " |
| R916 | QRD141J-124 | 120 kΩ | " | " |
| R917 | QRD126J-680 | 68 Ω | 1/2 W | Uninflammable Carbon |
| R918 | QRD141J-183 | 18 kΩ | 1/4 W | Carbon |
| R919 | QRD141J-153 | 15 kΩ | " | " |
| R920 | QRD141J-562 | 5.6 kΩ | " | " |
| R921 | QRD141J-822 | 8.2 kΩ | " | " |
| R922 | QRG027J-681 | 680 Ω | 2 W | Uninflammable O.M.F. |
| R923 | QRG017J-331S | 330 Ω | 1 W | " |

Circuit Board & Others

| Item No. | Part Number | Rating | | Description |
|----------|---|--------|--|--|
| L602 | E22199-001 E61537-001 E04059-1R2 SPSP3005M | 1.2 mH | | Circuit Board Heat Sink Choke Coil Screw (to fix the heat sink) |
| RY901 | ESK1D24-214D E03606-001 | | | Relay Hole Contact Pin (for test point) |

8-(6) TAD-182 Driver Amp. P.C.Board Ass'y

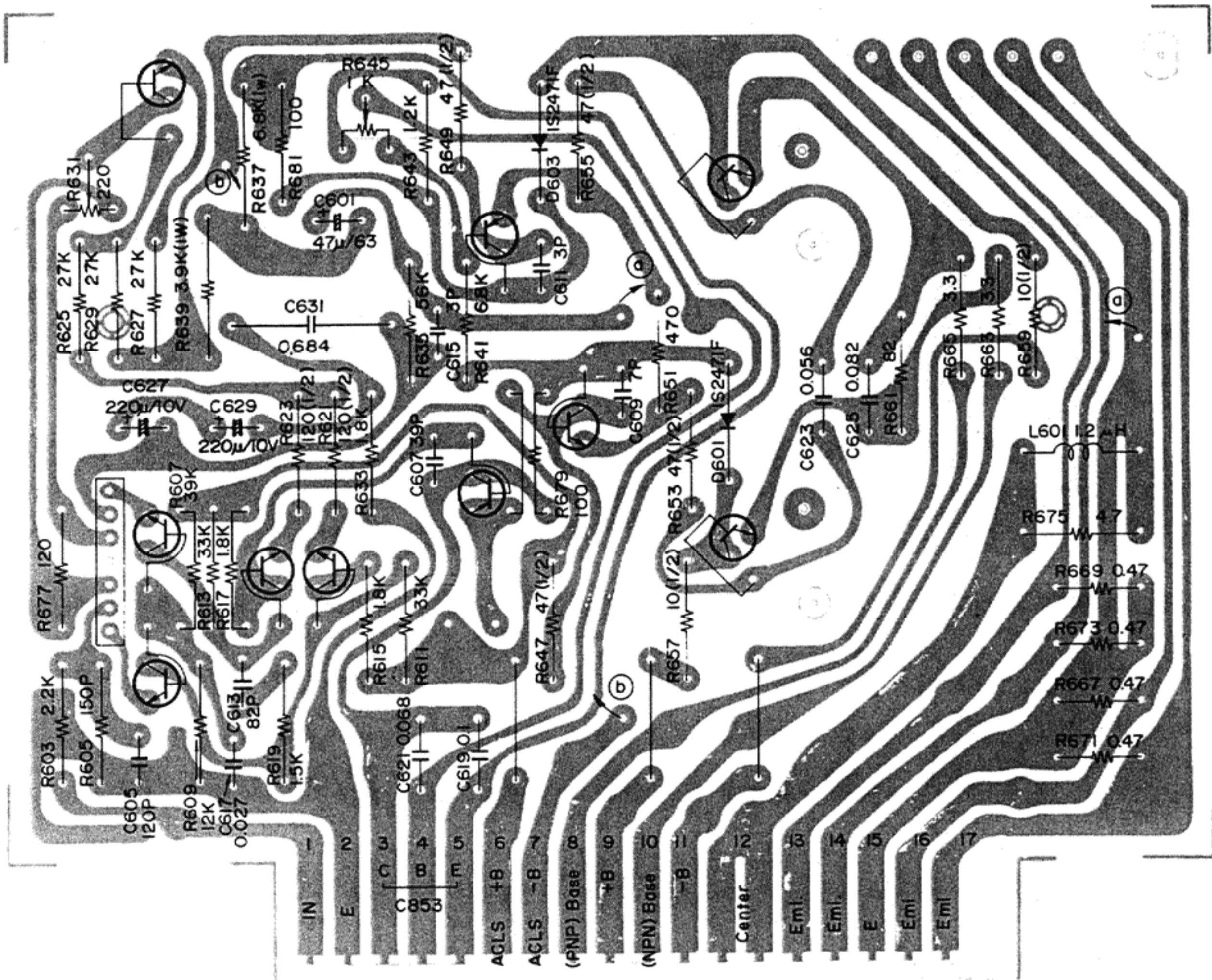


Fig. 20

Transistors & IC

| Item No. | Part Number | Rating | | Description | Maker |
|----------|----------------|---------|---------|---------------|---------|
| | | Pc | fT | | |
| IC601 | MPA63H1 | 250 mW | | I.C. | NEC |
| X603 | 2SC1775AV (F) | 300 mW | 200 MHz | Silicon (NPN) | Hitachi |
| X605 | 2SC1775AV (F) | " | " | " | " |
| X607 | 2SC1775AV (F) | " | " | " | " |
| X609 | 2SC1775AV (F) | " | " | " | " |
| X611 | 2SC1775AV (F) | " | " | " | " |
| X613 | 2SA899 (B, V) | 1000 mW | 100 MHz | " (PNP) | Fuji |
| X615 | 2SC1904 (B, V) | " | " | " (NPN) | " |
| X617 | 2SA899 (B, V) | " | " | " (PNP) | " |
| X621 | 2SD381 (L, M) | 20 W | 60 MHz | " (NPN) | NEC |
| X623 | 2SB536 (L, M) | " | " | " (PNP) | " |

Diodes

| Item No. | Part Number | Rating | Description | Maker |
|----------|-------------|--------|-------------|------------|
| D601 | 1S2471F | | | Toyo Dengu |
| D603 | 1S2471F | | | " |

Capacitors

| Item No. | Part Number | Rating | | Description |
|----------|----------------|----------------|-------|-----------------|
| C601 | QEW51JA-476 | 47 μ F | 63 V | Electrolytic |
| C607 | QCS12HJ-330 | 33 pF | 100 V | Ceramic |
| C609 | QCS12HJ-7R0 | 7 pF | " | " |
| C611 | QCS12HJ-3R0 | 3 pF | " | " |
| C613 | QFM31HK-562 | 0.0056 μ F | 50 V | Mylar |
| C619 | QFM31HK-104 | 0.1 μ F | " | " |
| C621 | QFM31HK-683 | 0.068 μ F | " | " |
| C623 | QFM31HK-563 | 0.056 μ F | " | " |
| C625 | QFM31HK-823 | 0.082 μ F | " | " |
| C627 | QEW51AA-227 | 220 μ F | 10 V | Electrolytic |
| C629 | QEW51AA-227 | " | " | " |
| C631 | CF93MMA2E-684K | 0.68 μ F | 250 V | Metalized Mylar |
| C633 | QCS31HJ-180 | 18 pF | 50 V | Ceramic |
| C635 | QCS12HJ-1R0 | 1 pF | 100 V | " |

Resistors

| Item No. | Part Number | Rating | | Description |
|----------|--------------|--------------------|-------|----------------------|
| R603 | QRZ0019-222 | 2.2 k Ω | 1/4 W | Carbon Low Noise |
| R605 | QRZ0019-154 | 150 k Ω | " | " |
| R607 | QRZ0019-393 | 39 k Ω | " | " |
| R609 | QRZ0019-123 | 12 k Ω | " | " |
| R611 | QRZ0019-333 | 33 k Ω | " | " |
| R613 | QRZ0019-333 | 33 k Ω | " | " |
| R615 | QRZ0019-182 | 1.8 k Ω | " | " |
| R617 | QRZ0019-182 | " | " | " |
| R619 | QRD141J-562 | 5.6 k Ω | " | " |
| R621 | QRD126J-121 | 120 Ω | 1/2 W | Uninflammable Carbon |
| R623 | QRD126J-121 | " | " | " |
| R625 | QRZ0019-273 | 27 k Ω | 1/4 W | Carbon |
| R627 | QRZ0019-273 | " | " | " |
| R629 | QRZ0019-273 | " | " | " |
| R631 | QVP9A0B-221 | 220 Ω (B) | 1/8 W | Variable Semi Fix |
| R633 | QRZ0019-182 | 1.8 k Ω | 1/4 W | Carbon |
| R635 | QRZ0019-563 | 56 k Ω | " | " |
| R637 | QRG017J-682S | 6.8 k Ω | 1 W | Uninflammable O.M.F. |
| R639 | QRG017J-392S | 3.9 k Ω | " | " |
| R641 | QRZ0019-682 | 6.8 k Ω | 1/4 W | Carbon |
| R643 | QRZ0019-122 | 1.2 k Ω | " | " |
| R645 | QVP9A0B-222 | 2.2 k Ω (B) | 1/8 W | Variable |
| R647 | QRG129J-470 | 47 Ω | 1/2 W | Uninflammable Carbon |
| R649 | QRG129J-470 | " | " | Uninflammable O.M.F. |
| R651 | QRD141J-471 | 470 Ω | 1/4 W | Carbon |
| R653 | QRD141J-470 | 47 Ω | " | " |
| R655 | QRD141J-470 | " | " | " |
| R657 | QRX129J-100 | 10 Ω | 1/2 W | Uninflammable M.F. |
| R659 | QRX129J-100 | " | " | " |
| R661 | QRD141J-820 | 82 Ω | 1/4 W | Carbon |
| R663 | QRD141J-3R3 | 3.3 Ω | " | " |
| R665 | QRD141J-3R3 | " | " | " |
| R667 | QRM054K-R47S | 0.47 Ω | 5 W | Metal Planer |
| R669 | QRM054K-R47S | " | " | " |
| R671 | QRM054K-R47S | " | " | " |
| R673 | QRM054K-R47S | " | " | " |
| R675 | QRX129J-4R7 | 4.7 Ω | 1/2 W | Uninflammable M.F. |
| R677 | QRD141J-121 | 120 Ω | 1/4 W | Carbon |
| R679 | QRD141J-101 | 100 Ω | " | " |
| R681 | QRD141J-101 | " | " | " |

Circuit Board & Others

| Item No. | Part Number | Rating | Description |
|----------|---|--------|---|
| L601 | E22218-001 E61537-001 E04059-1R2 SPSP3005M | 1.2 mH | Circuit Board Heat Sink Choke Coil Screw |

9. Accessories List

| Part Number | Description | Q'ty |
|-------------|--------------------------|------|
| E30580-624A | Instruction Book | 1 |
| E64207-002 | Envelope for Accessories | 1 |
| BT20032 | JVC Warranty Card | 1 |
| BT20023 | Service Procedure | 1 |
| BT20024B | Caution | 1 |

10. Packing Materials and Part Numbers

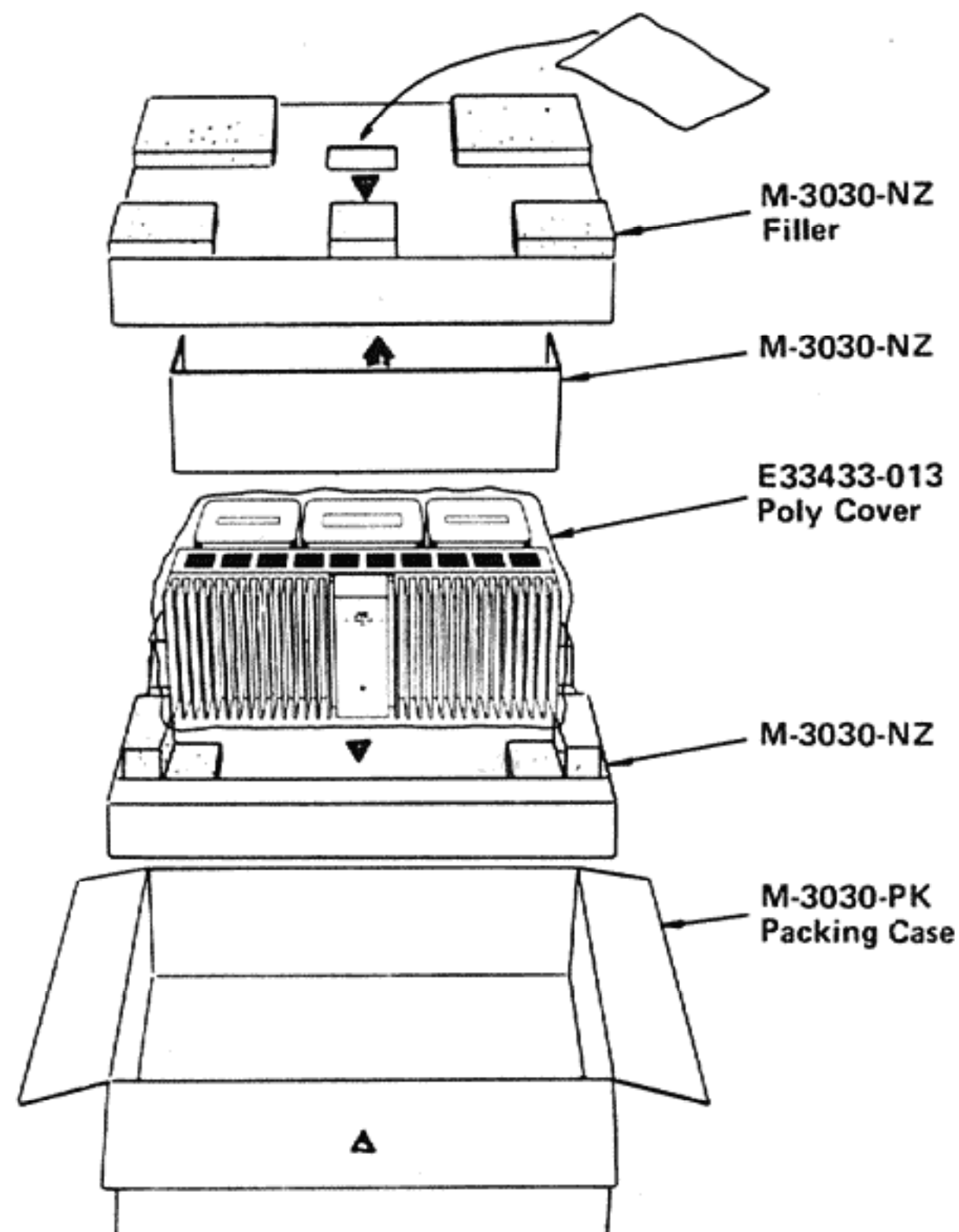


Fig. 21

11. Transistor Lead Identification

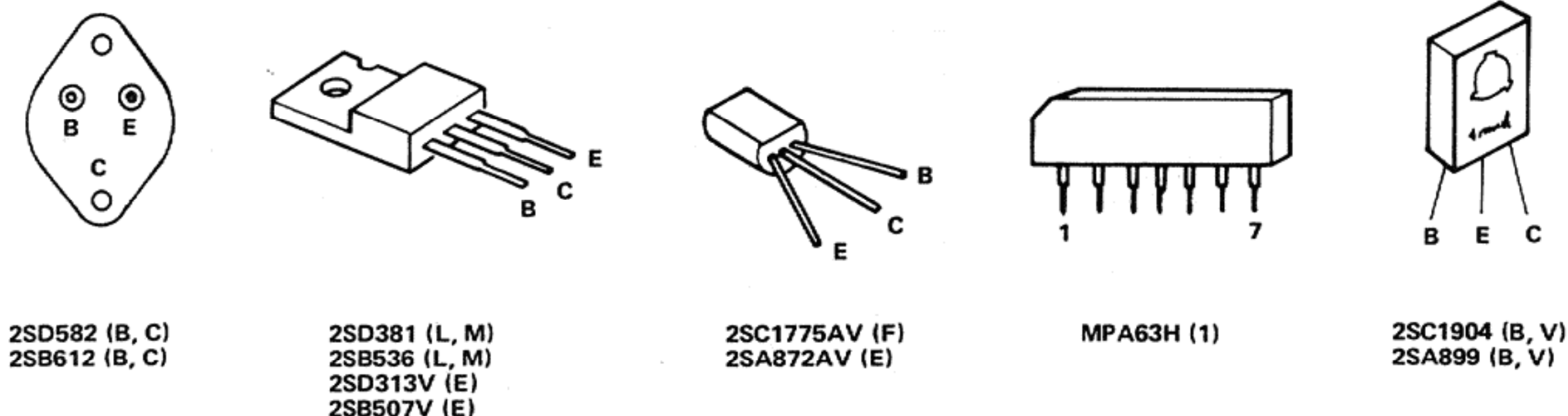


Fig. 22

12. Parts List with Specified Numbers for Designated Areas

| Page | Item No. | Description | Original | For Europe |
|------|----------|---------------------------------------|--------------|--------------|
| 5 | 11 | A Class Power Supply P.C. Board Ass'y | TPS-78C | TPS-78B |
| | 14 | Fuse P.C. Board Ass'y | TPS-86B | TPS-86D |
| | 18 | Plug Cover | Not included | E48633-001 |
| | | Power Cord | QMP1700-244 | E03544-001 |
| | | Warranty Card | BT20032 | Not included |
| | | Voltage Select Plug | E03676-001 | " |
| | | Voltage Select Socket | E03676-002 | " |
| | | Bracket | E61887-001 | " |
| | | Fuse (F1) | QMF61U1-3R0 | QMF51A2-5R0 |
| | | " (F2) | QMF61U1-3R0 | QMF51A2-3R15 |
| | | " (F3) | QMF61U1-3R0 | QMF51A2-3R15 |
| | | " (F4) | QMF61U1-3R0 | QMF51A2-5R0 |
| | | " (F5) | QMF61M1-R20 | QMF61M1-R20 |
| | | " (F701) | Not included | QMF61M1-R20 |
| | " (F702) | " | QMF61M1-R20 | |
| | " (F703) | " | QMF51A2-5R0 | |
| | " (F704) | " | QMF51A2-5R0 | |

Comparison Table for Line Voltage, Power Consumption by Areas

| M-3030 | Line Voltage | Power Consumption |
|----------------------|--------------------------------|-------------------|
| U.S.A. | AC 120 V, 50/60 Hz | 243 W |
| Europe & Other Areas | AC 100/120/220/240 V, 50/60 Hz | 820 W |

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