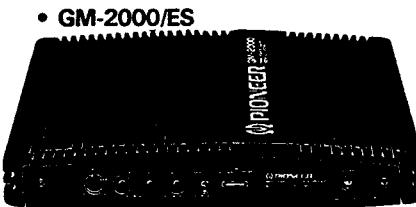


Service Manual



ORDER NO.
CRT 1156

BRIDGEABLE POWER AMPLIFIER

GM-2000

ES EW UC

POWER AMPLIFIER

GM-1000

ES, EW, UC

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SPECIFICATIONS

• GM-2000

| | |
|---|--|
| Power source | 14.4 V DC (10.8–15.6 V allowable) |
| Grounding system | Negative type |
| Max. current consumption | 15 A |
| Dimensions | 265 (W) × 48 (H) × 232 (D) mm |
| Weight | 3.0 kg (Leads for wiring not included) |
| Maximum power output | 100 W × 2/200 W × 1 |
| Continuous power output | 60 W × 2/120 W × 1 (at 4 Ω, 1 kHz, 1% THD) |
| | 50 W × 2 / 100 W × 1 (at 4 Ω, 20–20,000 Hz, 0.015%/0.03% THD) |
| Load impedance | 4 Ω (2–8 Ω allowable) |
| Frequency response | 10–50,000 Hz (+0dB, -1dB) |
| Signal-to-noise ratio | 102 dB (IEC-A network) |
| Distortion | 0.005% (at 50 W, 1 kHz) |
| Low pass filter cut off frequency | 80 Hz |
| Low pass filter cut off slope | 12dB/octave |
| Input level | DIN: 70–500 mV/20kΩ RCA: 0.2–2 V/7kΩ |

• GM-1000

| | |
|--------------------------------|---|
| Power source | 14.4 V DC (10.8–15.6 V allowable) |
| Grounding system | Negative type |
| Max. current consumption | 10 A |
| Dimensions | 265 (W) × 41 (H) × 225 (D) mm |
| Weight | 2.7 kg (Cords for wiring not included) |
| Maximum power output | 60 W × 2 |
| Continuous power output | 36 W × 2 (at 4 Ω, 1 kHz, 1% THD) 30 W × 2 (at 4 Ω, 20–20,000 Hz, 0.015% THD) |
| Load impedance | 4 Ω (4–8 Ω allowable) |
| Frequency response | 10–50,000 Hz (+0dB, -1dB) |
| Signal-to-noise ratio | 101 dB (IEC-A network) |
| Distortion | 0.005% (at 30 W, 1 kHz) |
| Input level | DIN: 70–500 mV/20kΩ RCA: 0.2–2 V/7kΩ |

Note:

Specifications and the design are subject to possible modification without notice due to improvements.

PIONEER ELECTRONIC CORPORATION

4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan

PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, California 90801 U.S.A.

PIONEER ELECTRONICS OF CANADA, INC. 505 Cochrane Drive, Markham, Ontario L3R 8E3 Canada

PIONEER ELECTRONIC [EUROPE] N.V. Keetberglaan 1, 2740 Beveren, Belgium

PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911

• **BFC Switch**

Throw SW5 (BFC switch) when <<BEETO>> is generated during reception of AM broadcast (MW, LW).

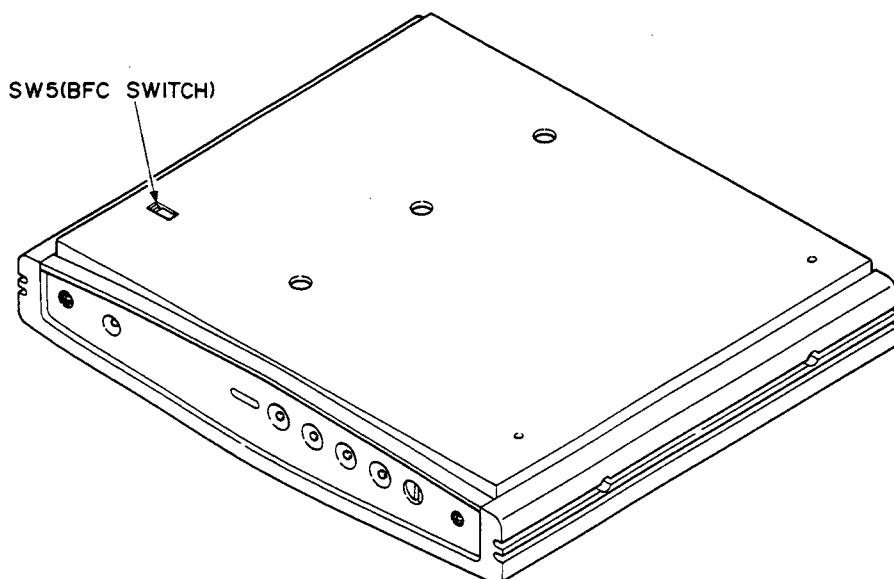
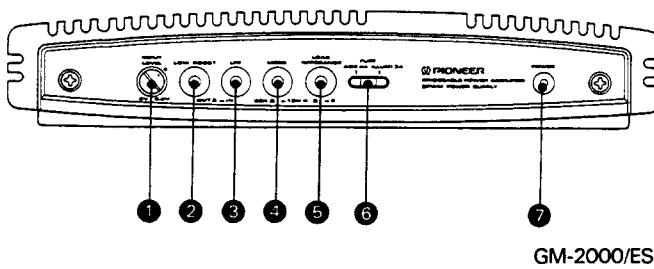


Fig. 1

1. CONTROL AND THEIR USE



① Input Level Control

Adjust the input level control to suit the output level of the car stereo used with this amplifier. (See "Input Level Adjustment" on page 2.)

② Low Boost Switch

Press this switch to increase the volume of sounds in the low-frequency range if your car audio system does not reproduce enough bass sounds. This is effective when the amplifier is used to drive a sub-woofer.

- If there are no low-frequency sounds in the music you are listening to, or if you are using relatively small speakers, this switch may not make much difference.

③ Low Pass Filter (LPF) Switch

If this switch is pressed when this amplifier is to be used to drive a sub-woofer, only sounds in the low-frequency range will be output.

④ Mode Select Switch

Press this switch to use the amplifier as a mono amplifier.

- When the amplifier is used in this way, the speaker leads need to be connected accordingly. (See "Connecting Speaker Leads" on page 2.)

⑤ Load Impedance Select Switch

Press this switch when the impedance of the speaker or speakers connected to this amplifier is less than 4 ohms.

⑥ Fuse Window

There are a fuse for accessories and a fuse for illumination behind the front grill.

⑦ Power Indicator

The power indicator lights when the power is switched on.

2. CONNECTION

Connect the components correctly as shown in the diagram.

- Test-connect all components before securing them into place. Test-operate your entire car stereo system to ensure that there are no faulty wiring connections between this unit and the rest of your car stereo system.
- The input selector of this amplifier functions automatically. Therefore, the amplifier may be used with either a Pioneer car stereo with DIN sockets or a car stereo with RCA pin jacks. For information about connecting a stereo, see the section entitled "When combined with a car stereo with DIN sockets" or that entitled "When combined with a car stereo with RCA pin jacks".
- When two channels (stereo) are used, the speakers should have a minimum rating of 100 W or more. When a single channel (mono) is used, the speaker should have a minimum rating of 200 W or more. If a speaker whose rating is below that recommended is used, the speaker may be damaged. The impedance of the speakers should be between 2 and 8 ohms.
- For detailed information concerning connections between different components and this unit consult their respective instruction manuals and follow those recommendations precisely.
- When wiring connecting leads into place secure them with clamps and adhesive electrician's tape. Additionally, to prevent any damage to the insulative coating of the connecting leads, protect them with adhesive electrician's tape wherever they may come into contact with any sharp edges.
- Wire all connecting leads so that they stay well clear of high-temperature areas such as the heater exhaust port.
- To operate the amplifier and car stereo properly, install the continuous power supply lead (orange) and the accessory power lead (red) correctly. If the leads are not installed correctly or are not connected at all, the amplifier and car stereo will not work.
- The supplied speaker lead with green stripes is not used for a single channel (mono) arrangement; keep it in case you need it in future.
- To use a car stereo with DIN sockets, use the optional component extension cable.

Input Level Adjustment

The input level adjustment knob is factory set as shown in Fig. 2. When a car stereo with DIN sockets is connected, adjust the input level as shown in Fig. 3. If the volume is insufficient even when the car stereo volume is increased, adjust the input level adjustment knob as shown in Fig. 3.

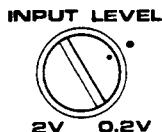


Fig. 2

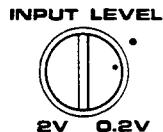


Fig. 3

Connecting Leads (Supplied)

Connecting Speaker Leads

- This amplifier has a mode select switch to select two-channel output (stereo) or one-channel output (mono). The speaker leads must be connected to suit the mode selected. Connect the speaker leads to the output terminals of the amplifier as shown in Fig. 4 and 5, paying attention to the polarities (+ and -) and lead colors.

When two channels (stereo) are used

- Set the mode select switch to the 2CH position.

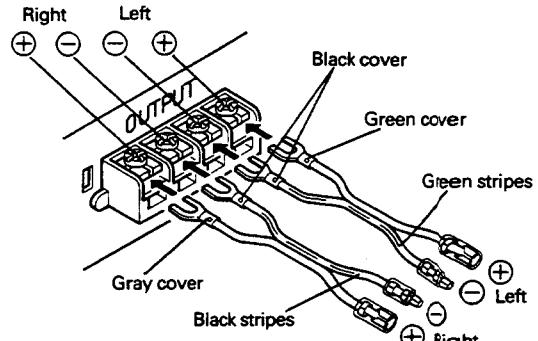


Fig. 4

When one channel (mono) is used

- Set the mode select switch to the 1CH position.
- The speaker lead with green stripes is not used; keep it in case you need it in future.

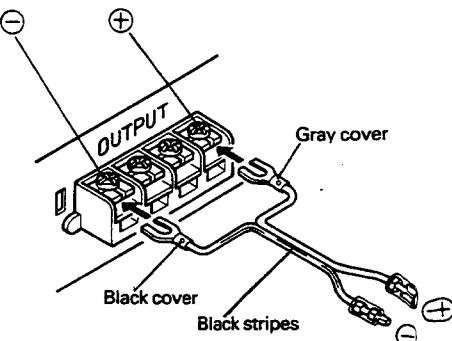


Fig. 5

Connecting the Continuous Power Supply Lead (Orange)

- Route the continuous power supply lead from the engine compartment to the passenger compartment and connect it to the amplifier. To prevent short-circuits, make sure you connect all the other leads first, then connect the end of the continuous power supply lead to the positive (+) terminal of the battery.

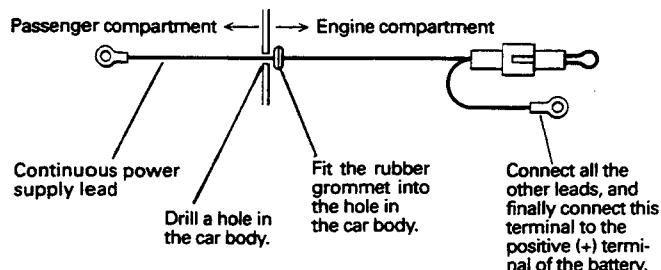


Fig. 6

Procedure for Connecting Speaker Leads

- Loosen the four output terminal screws at the rear of the amplifier in the middle.
- Insert each speaker lead terminal into an output terminal according to the selected mode. (Fig. 7)
- Tighten each output terminal screw.
- Fit the large terminal cover. (Fig. 8)

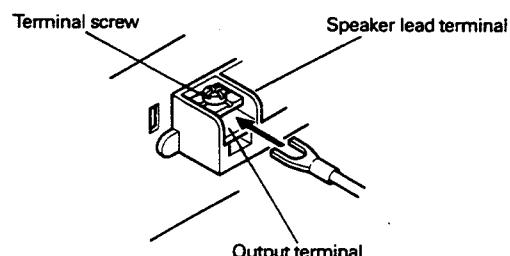


Fig. 7

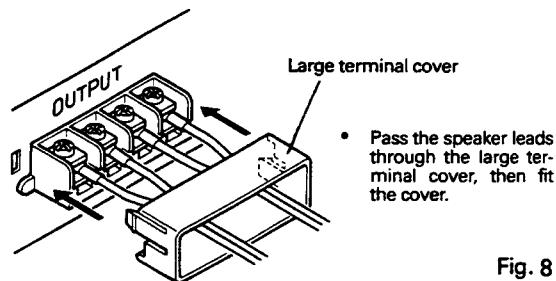


Fig. 8

Procedure for Connecting Continuous Power Supply Lead (Orange) and Grounding Lead (Black)

- Pass the continuous power supply lead (orange) and the grounding lead (black) through the small terminal cover. (Fig. 9)
- Remove the screws of the continuous power supply terminal and the grounding terminal at the rear of the amplifier on the left.
- Replace the screws removed in step 2 in the terminals and tighten them. (Fig. 10)
- Fit the small terminal cover. (Fig. 11)

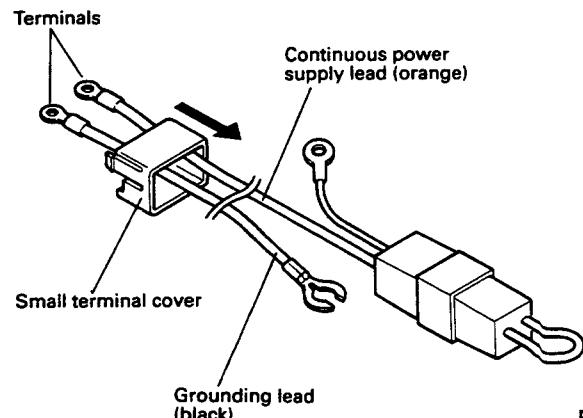


Fig. 9

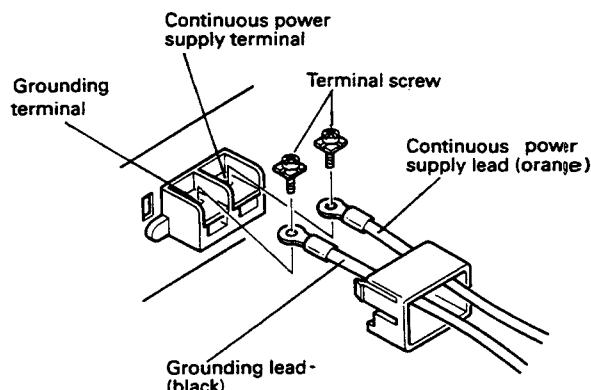


Fig. 10

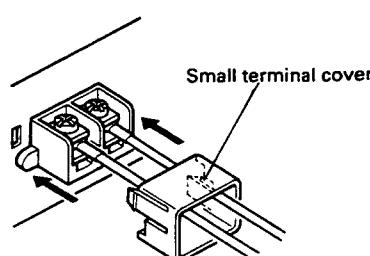
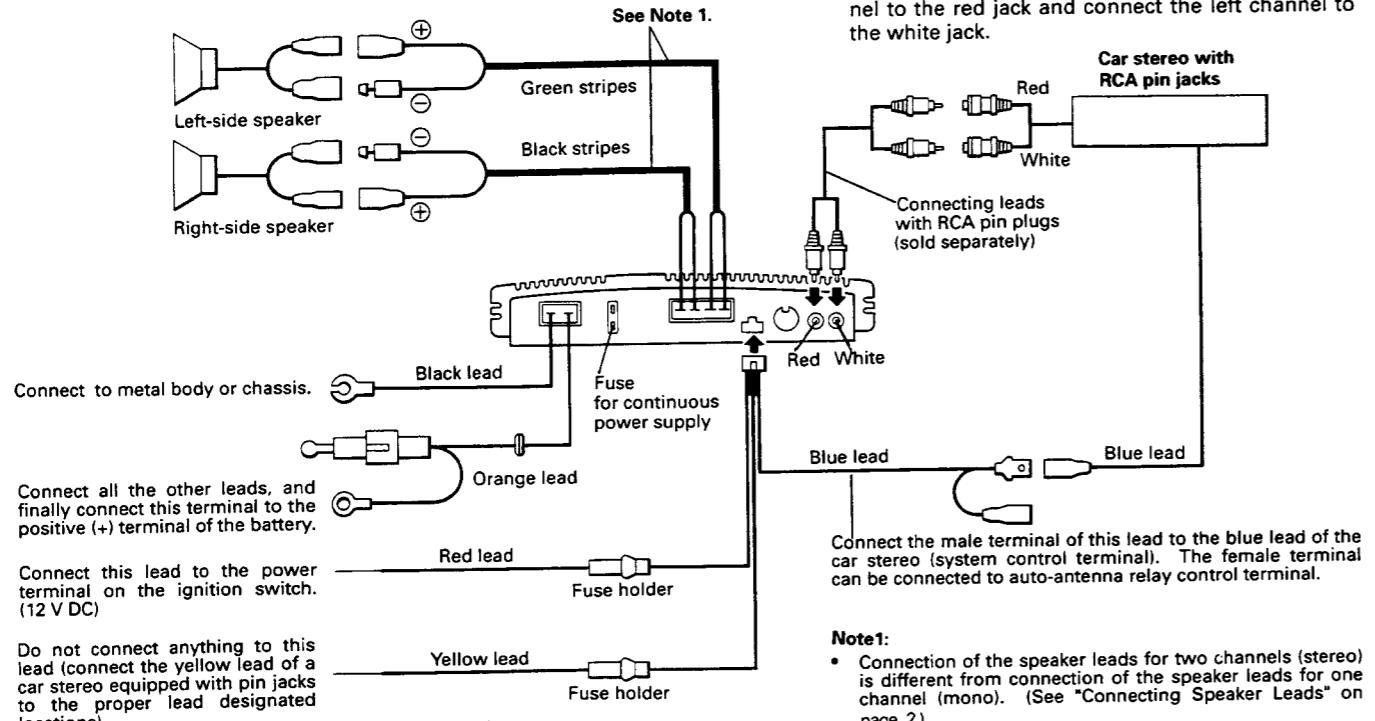


Fig. 11

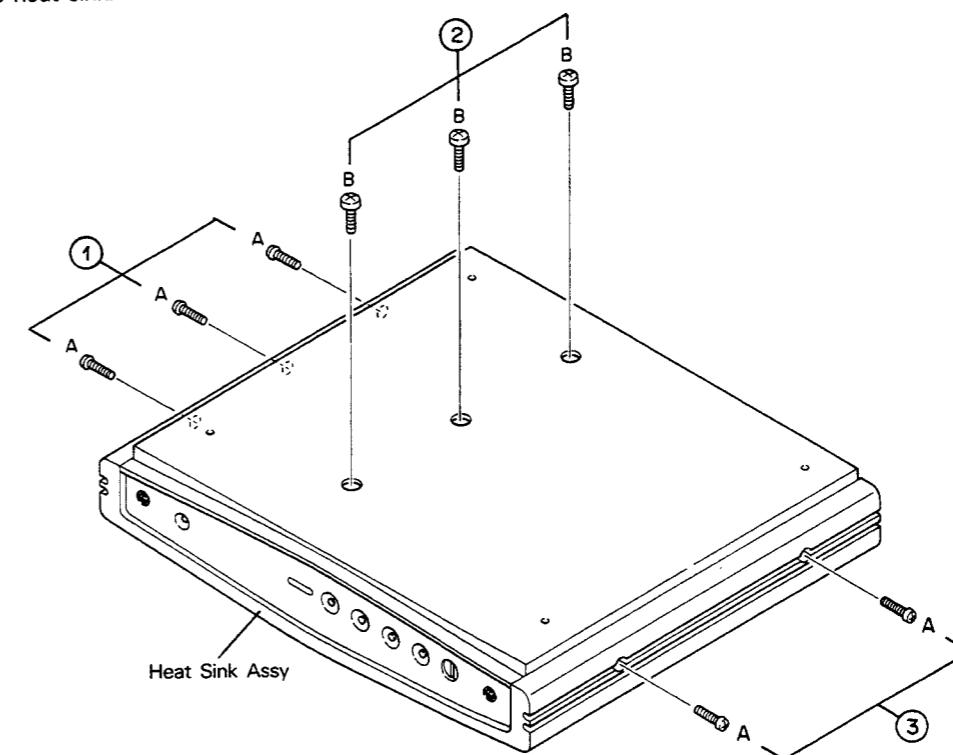
When Combined with a Car Stereo with RCA Pin Jacks



3. DISASSEMBLY

• Remove the Heat Sink

- Remove the five screws A and three screws B.
- Remove the heat sink.



4. CIRCUIT DESCRIPTION

4.1 BLOCK DIAGRAM (GM-2000/ES)

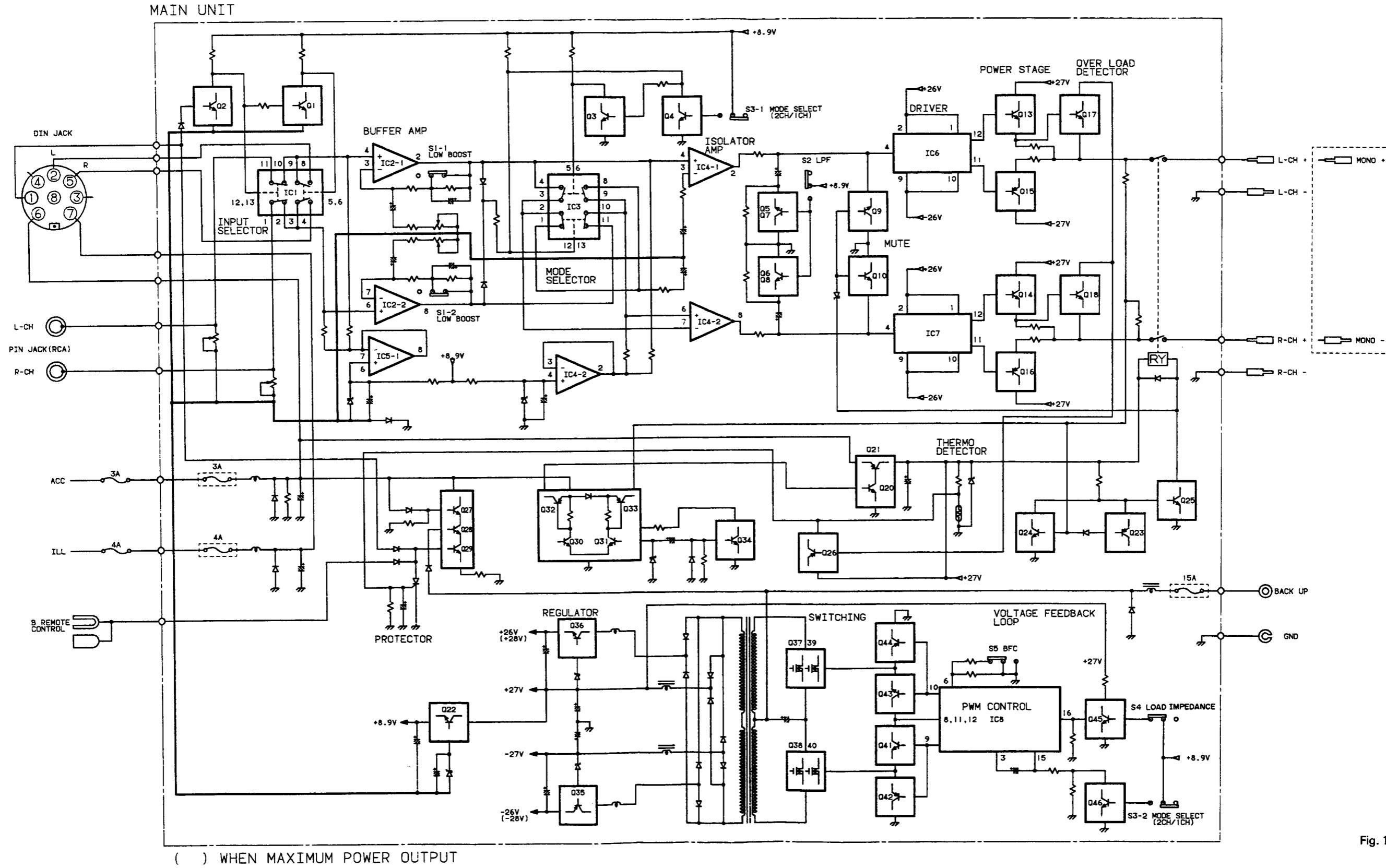


Fig. 16

4.2 PWM (Pulse Width Modulation) POWER SUPPLY

The PWM power supply is a circuit that maintains stable secondary voltage in a DC/DC converter, regardless of the voltage fluctuation and load fluctuation of the primary voltage.

In actual operation, the output voltage (V_{out}) expressed by formula (1) is maintained at a stable level. Consequently, when load fluctuation or fluctuation of the primary (battery) voltage occurs, the PWM circuit illustrated in Fig. 17-2 and 17-3 to control the pulse width of the gate voltage at A.

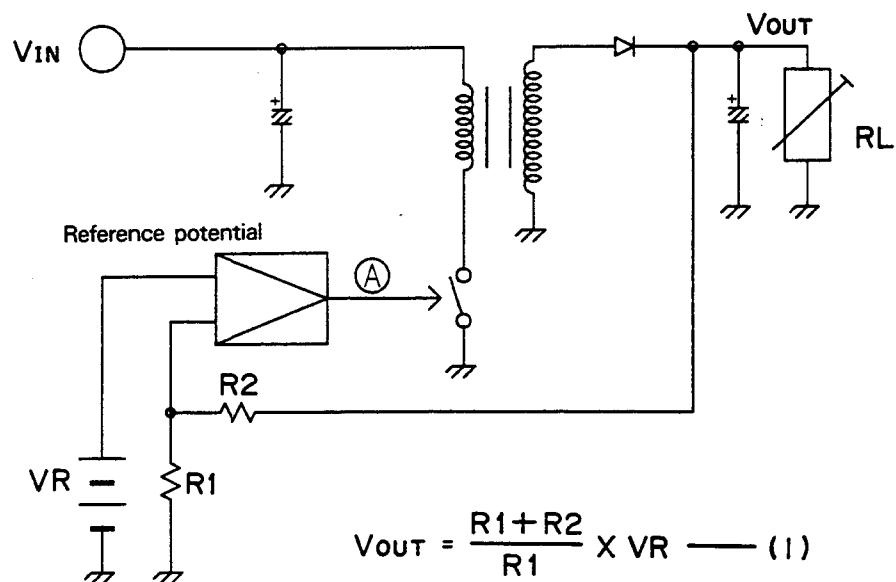


Fig. 17-1

- Waveforms at point A (V: 10V/div, H: 10μS/div)

No signal

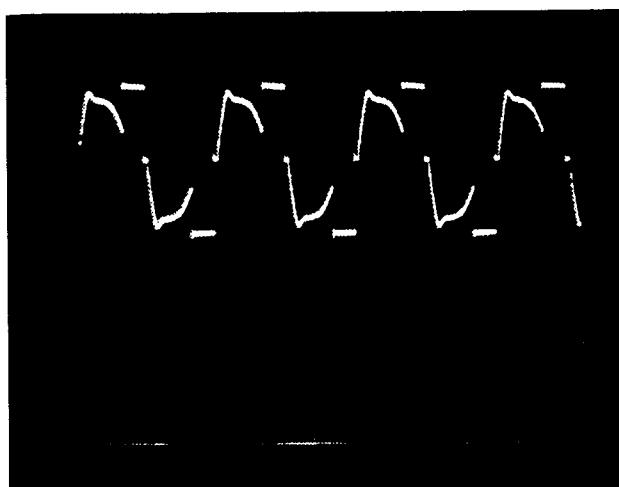


Fig. 17-2

Large output or drop in input voltage (VIN)

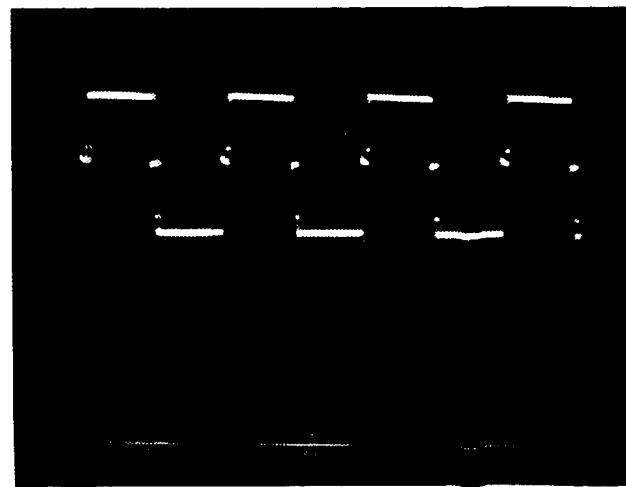


Fig. 17-3

5. ADJUSTMENT

- Connection Diagram

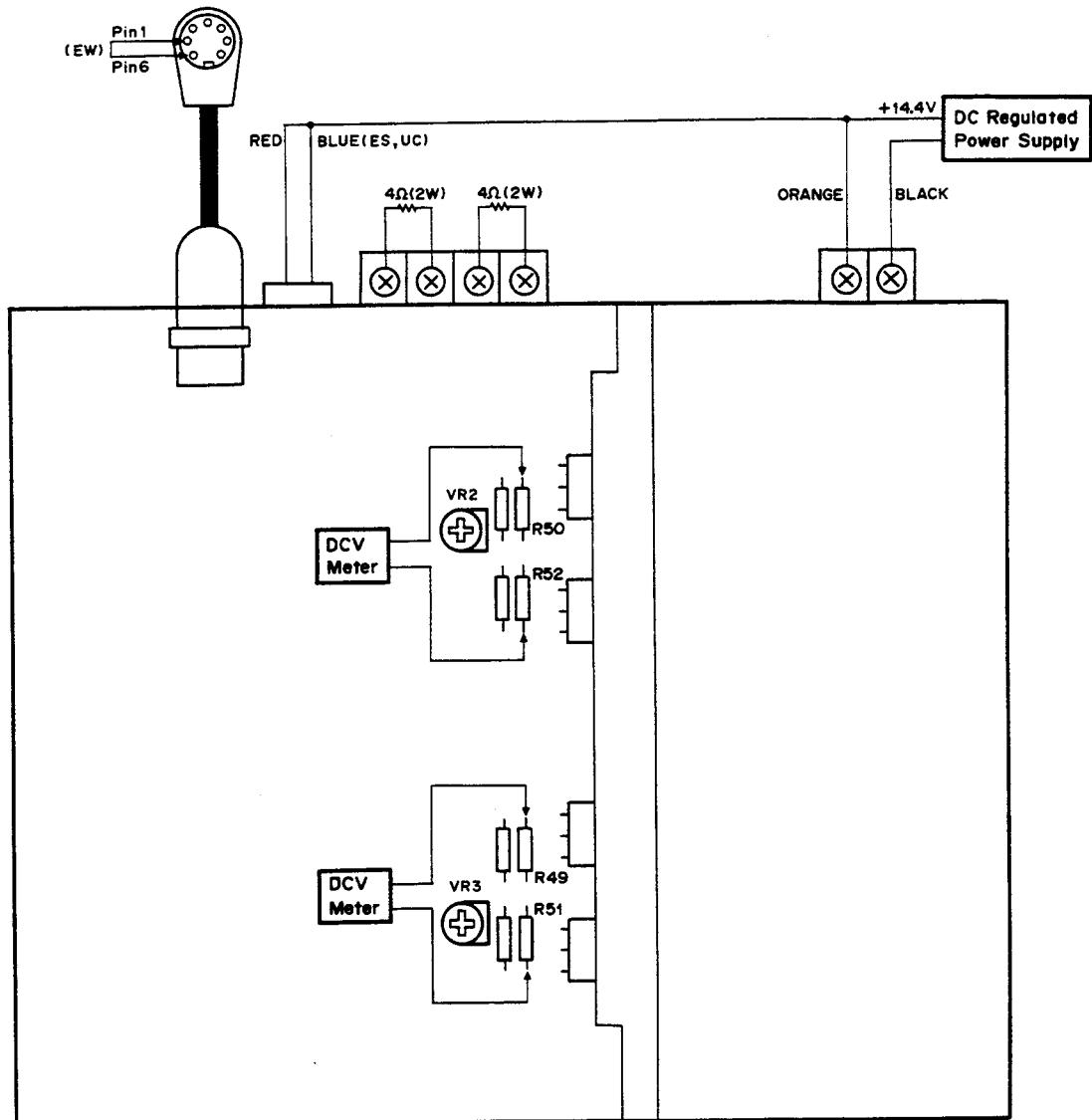


Fig. 18

5.1 IDLE CURRENT ADJUSTMENT

| No. | Adjusting Point | Adjustment Method |
|-----|-----------------|---|
| 1 | | Rotate VR2 and VR3 counterclockwise. Turn the power on, and wait about 30 minutes. |
| 2 | VR2,3 | DC V Meter: 6.6 mV + 1.1 mV (GM-2000) - 2.2 mV DC V Meter: 13.2 mV + 2.2 mV (GM-1000) - 4.4 mV |

• ICs and Transistors

2SA1048
2SC1740S
2SC2458
2SC3113



2SB1240
2SD1862



2SA933S
2SD1768S



2SC3623A
2SC2783



2SC1568



2SK817



2SB946
2SD1271



2SB1357
2SD2037



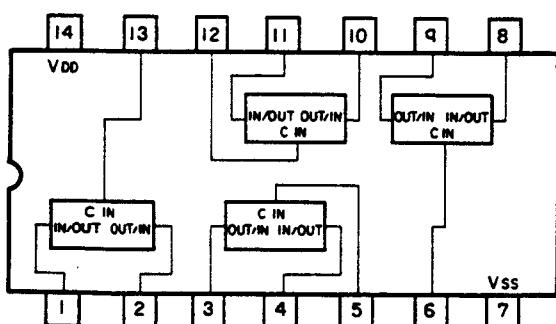
2SB1154
2SD1705



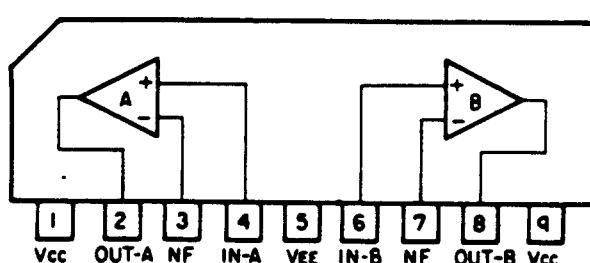
2SA1359
2SC3422



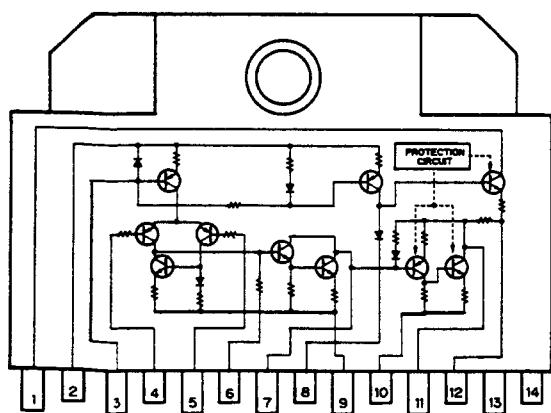
TC4066BP



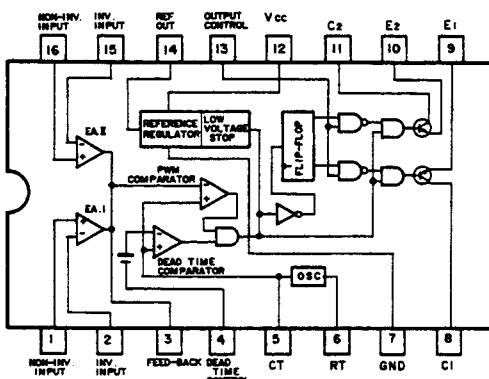
NJM2068S
NJM4558S



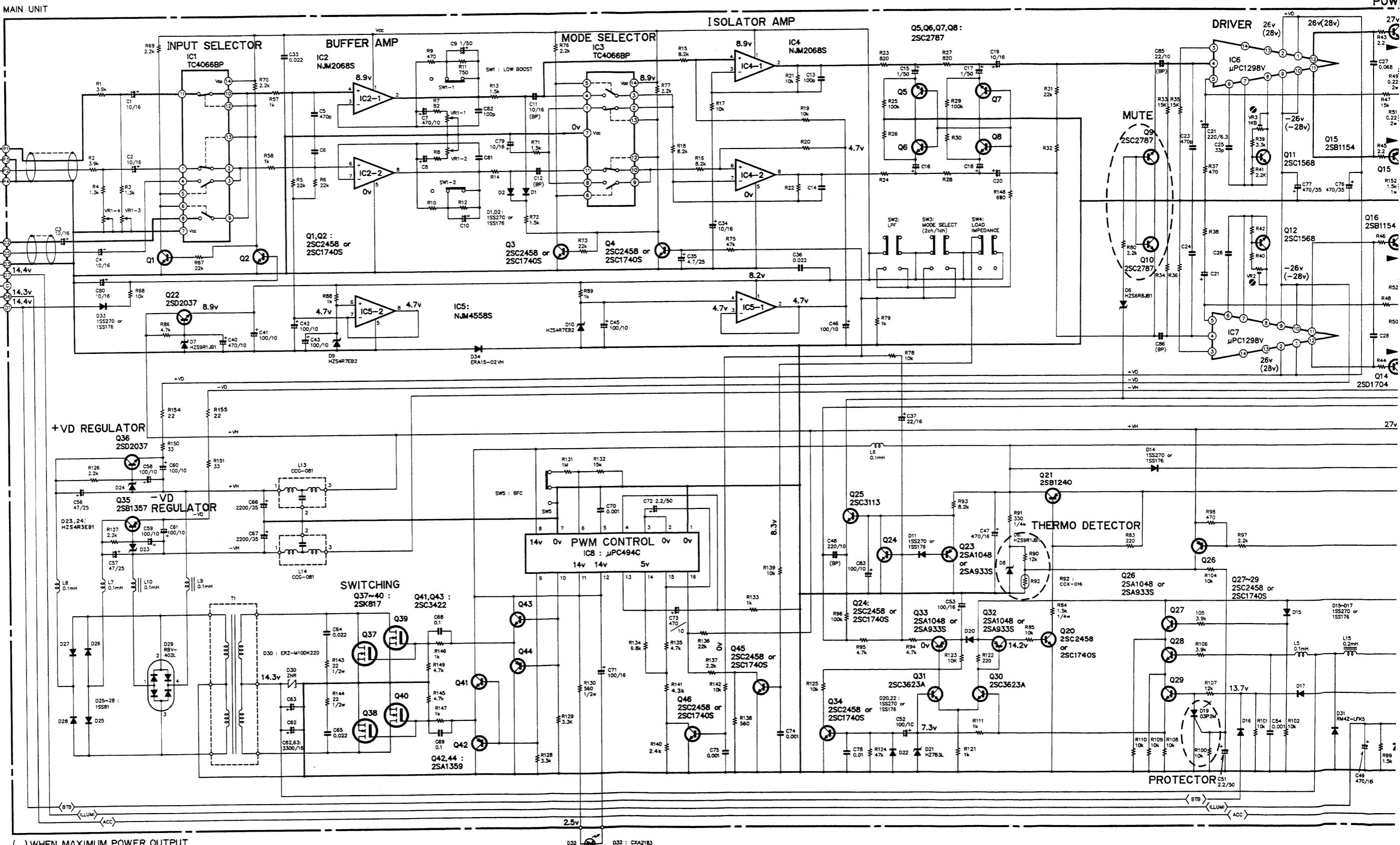
μ PC1298V



μ PC494C



6. SCHEMATIC CIRCUIT DIAGRAM (GM-2000/ES)



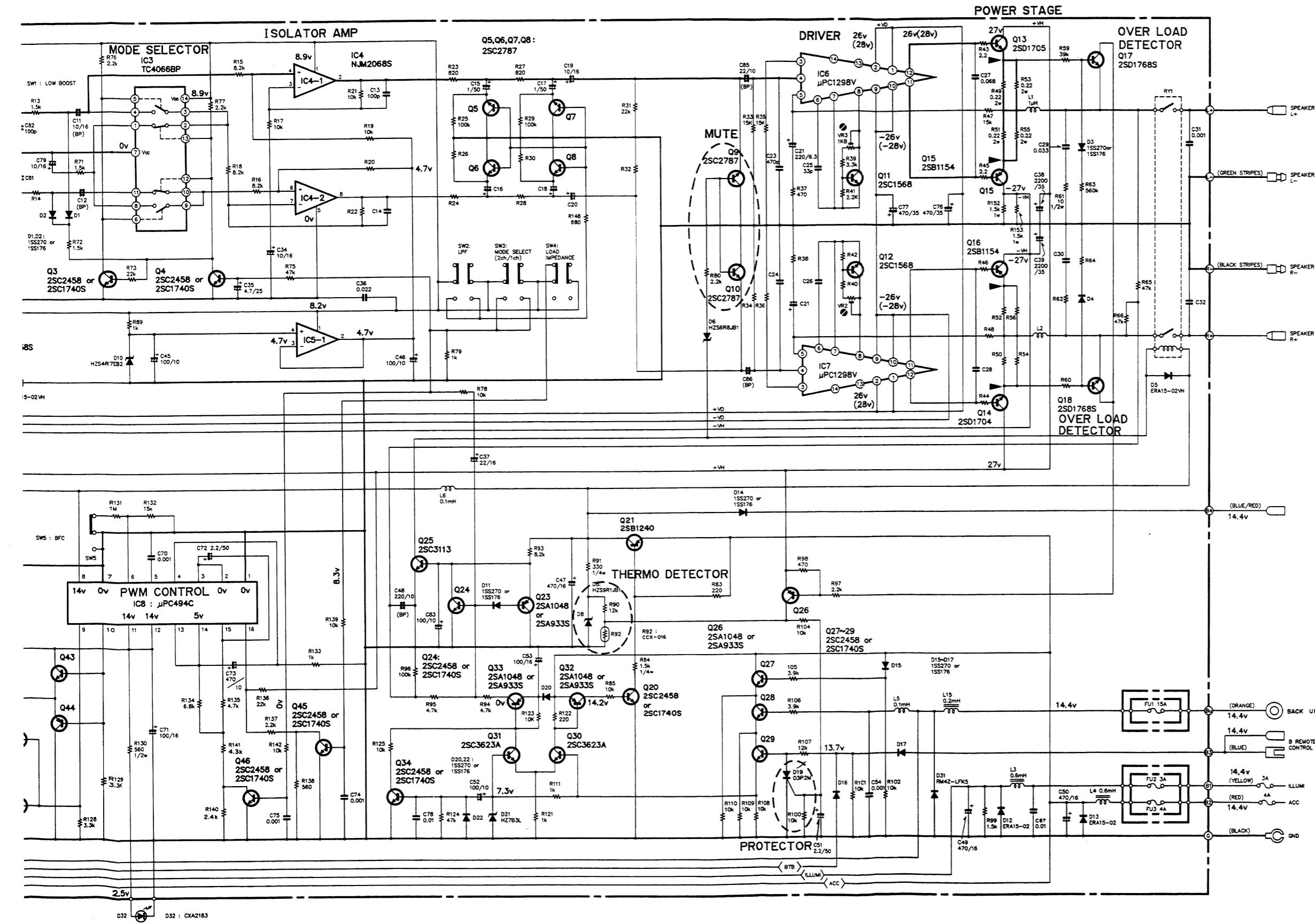


Fig. 19

SWITCHES

SWITCHES

| | |
|--------------------------------------|----------|
| SW1: LOW BOOST SWITCH | ON-OFF |
| SW2: LPF SWITCH | ON-OFF |
| SW3: MODE SELECT SWITCH | 1ch-2ch |
| SW4: LOAD IMPEDANCE SWITCH | 2Ω-4Ω |
| SW5: BFC SWITCH | LOW-HIGH |

The underlined indicates the switch position.

The underlined indicates the switch position.

1

2

3

4

5

6

7. CONNECTION DIAGRAM (GM-2000/ES)

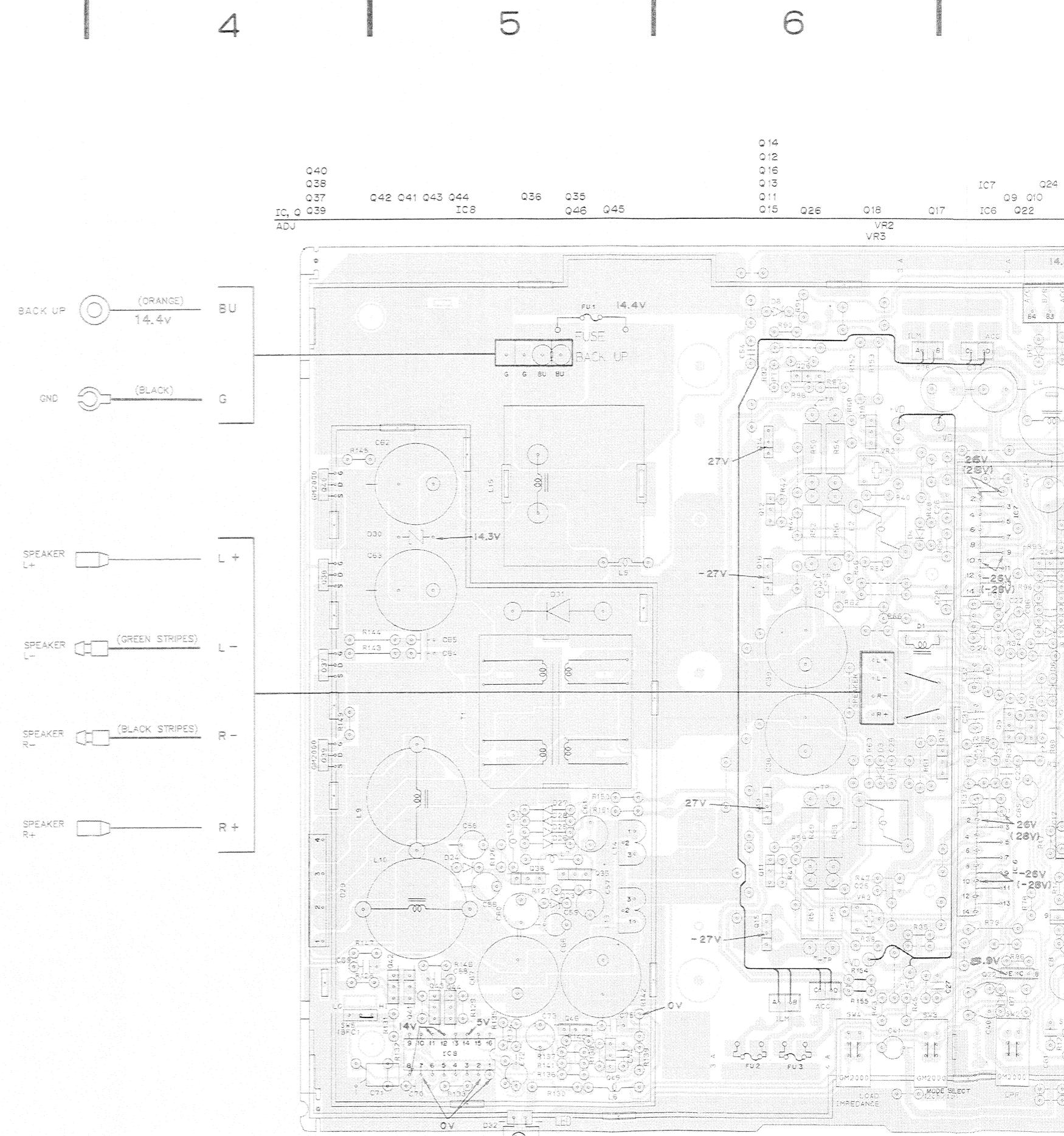
A

B

C

D

| Pattern symbol | Schematic symbol | Representation | Remarks |
|----------------|------------------|---------------------------------------|--|
| | | Transistor | Transistor E comes in square , then to left C and B follow unless otherwise indicated. |
| | | FET | |
| | | Thyristor | |
| | | Posistor | |
| | | Electrolytic capacitor (polarized) | In case of polarized electrolytic capacitor, terminal marked indicates +. |
| | | Electrolytic capacitor (polarized) | |
| | | Electrolytic capacitor (nonpolarized) | |
| | | Capacitor | |
| | | Resistor | |
| | | Filter | |
| | | Semi-fixed resistor | |
| | | Jumper | |



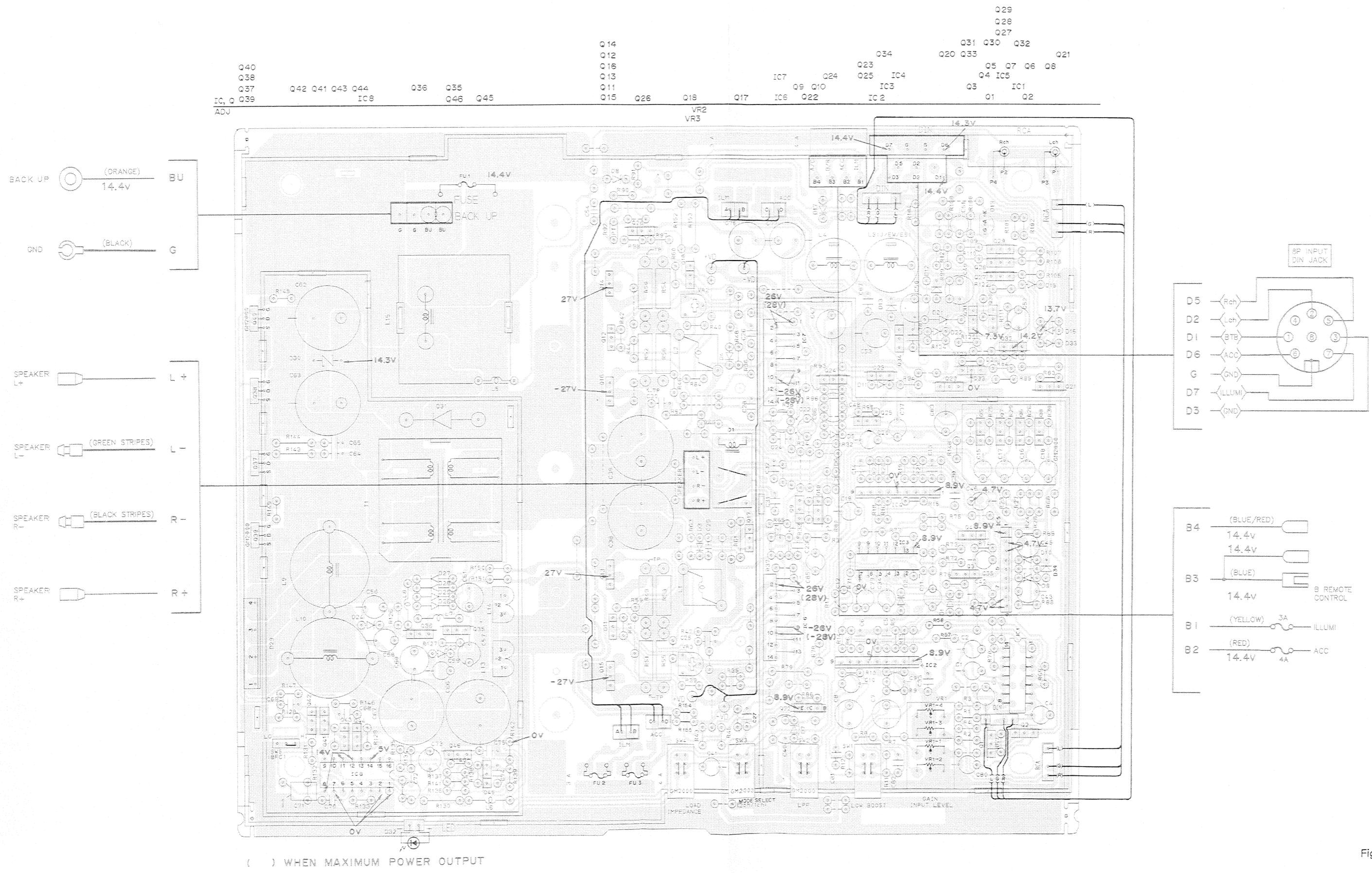
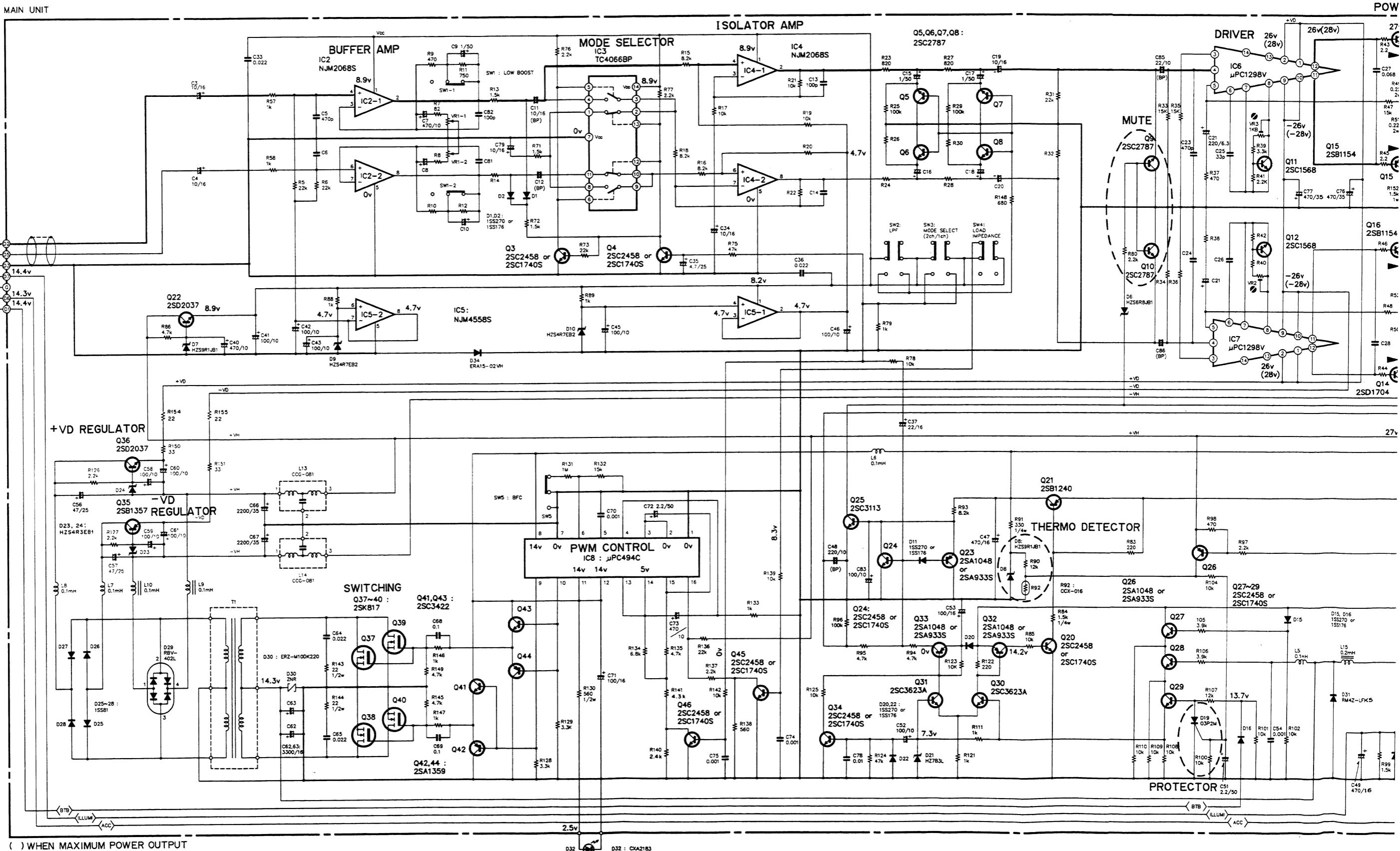


Fig. 20

8. SCHEMATIC CIRCUIT DIAGRAM (GM-2000/EW)



4

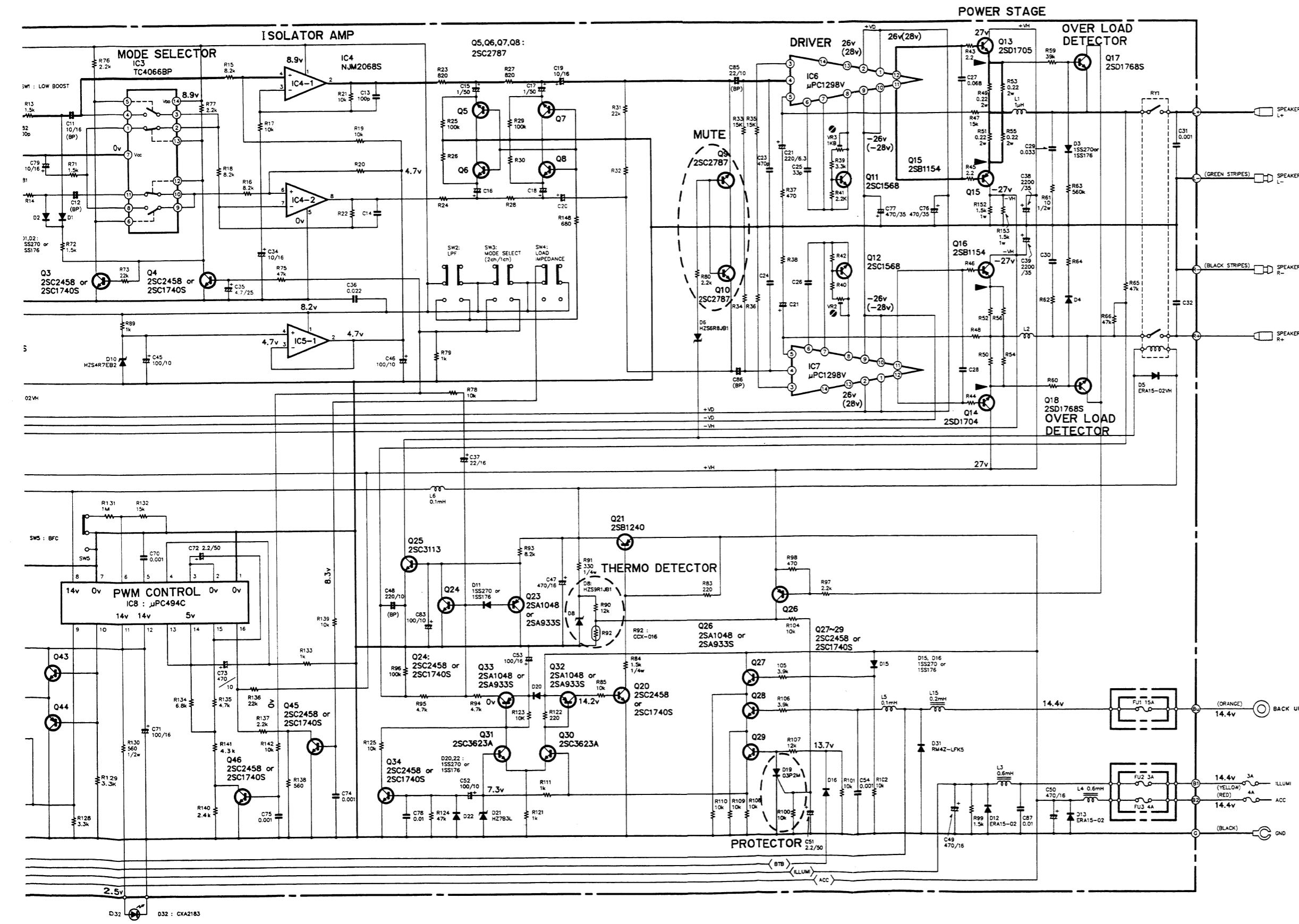
5

6

7

8

9



SWITCHES

SWITCHES

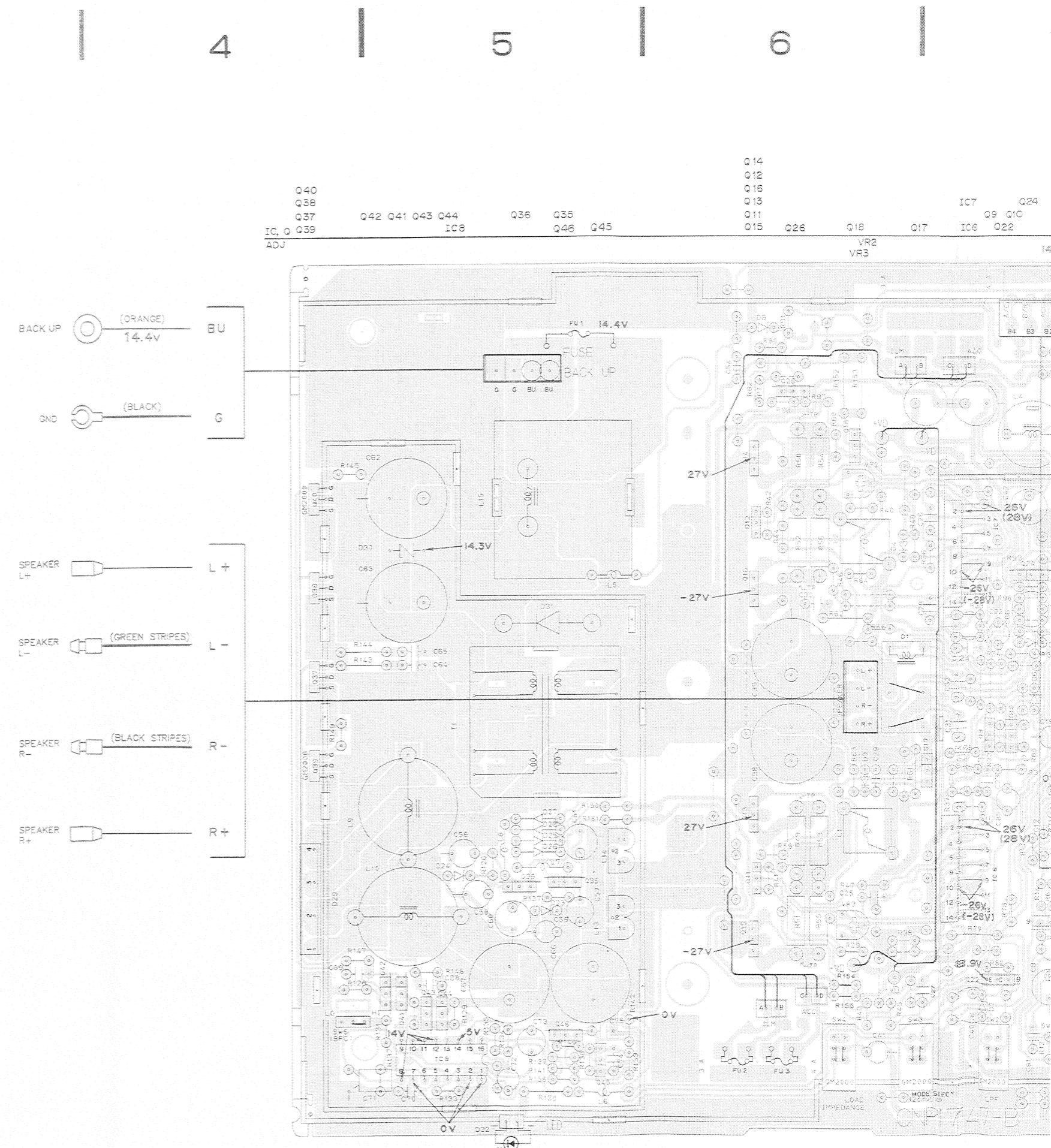
| | |
|--------------------------------------|-----------------|
| SW1: LOW BOOST SWITCH | <u>ON-OFF</u> |
| SW2: LPF SWITCH | <u>ON-OFF</u> |
| SW3: MODE SELECT SWITCH | <u>1ch-2ch</u> |
| SW4: LOAD IMPEDANCE SWITCH | <u>2Ω-4Ω</u> |
| SW5: BFC SWITCH | <u>LOW-HIGH</u> |

The underlined indicates the switch position.

Fig. 21

9. CONNECTION DIAGRAM (GM-2000/EW)

| Pattern symbol | Schematic symbol | Representation | Remarks |
|----------------|------------------|---------------------------------------|---|
| | | Transistor | Transistor E comes in square , then to left C and B follow unless otherwise indicated. |
| | | FET | |
| | | Thyristor | |
| | | Posistor | |
| | | Electrolytic capacitor (polarized) | In case of polarized electrolytic capacitor, terminal marked indicates +. |
| | | Electrolytic capacitor (polarized) | |
| | | Electrolytic capacitor (nonpolarized) | |
| | | Capacitor | |
| | | Resistor | |
| | | Filter | |
| | | Semi-fixed resistor | |
| | | Jumper | |



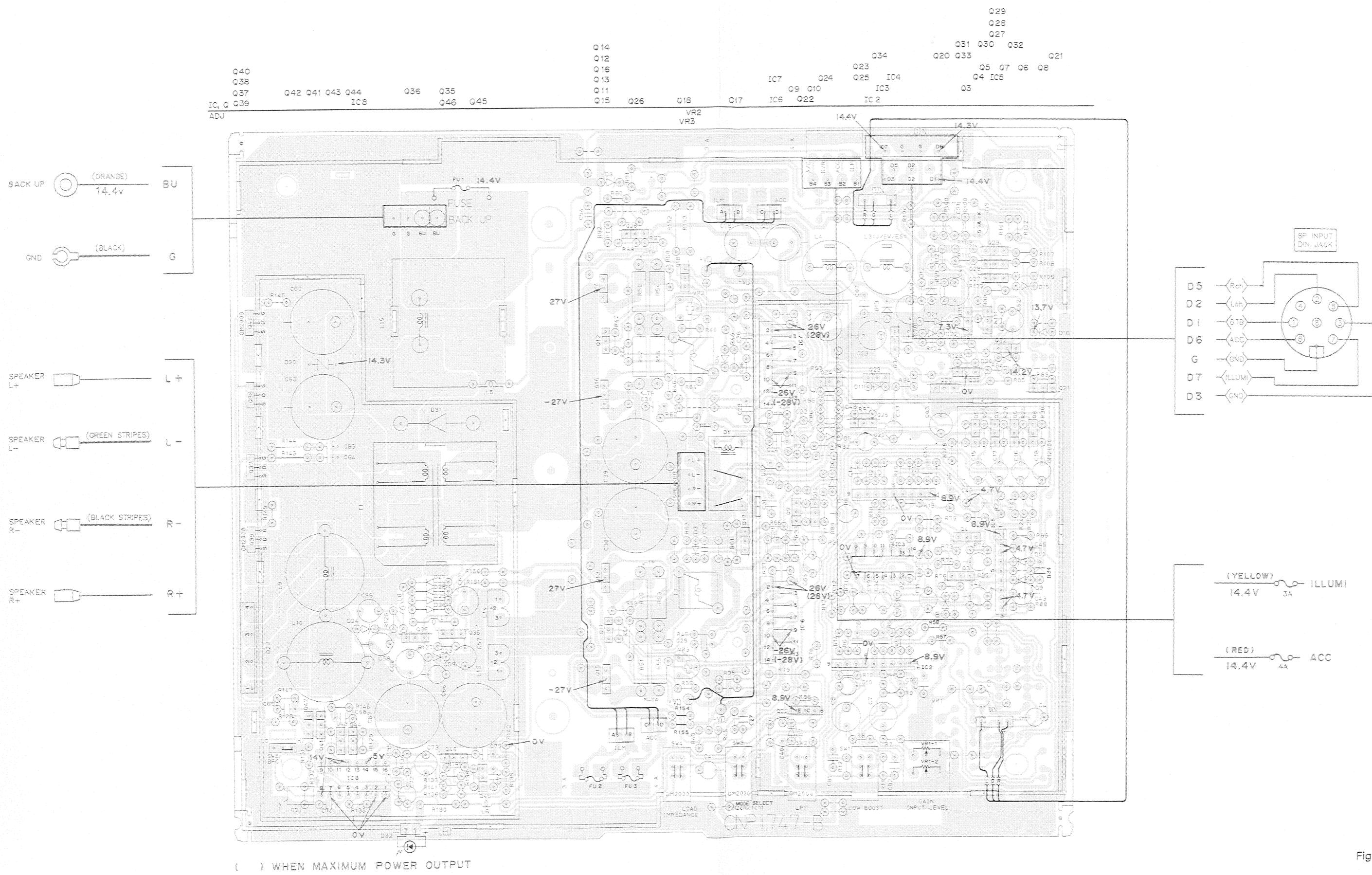
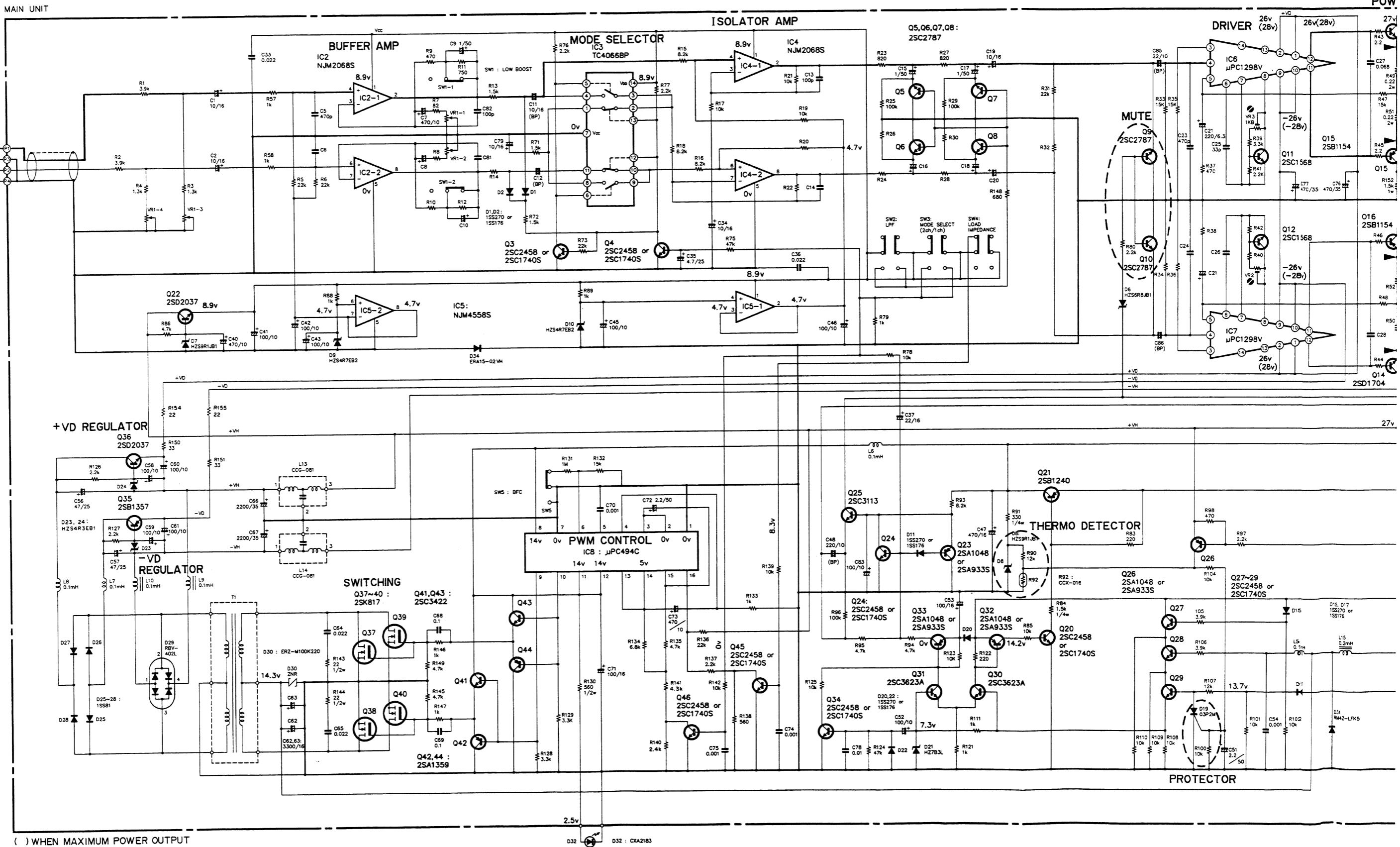


Fig. 22

10. SCHEMATIC CIRCUIT DIAGRAM (GM-2000/UC)

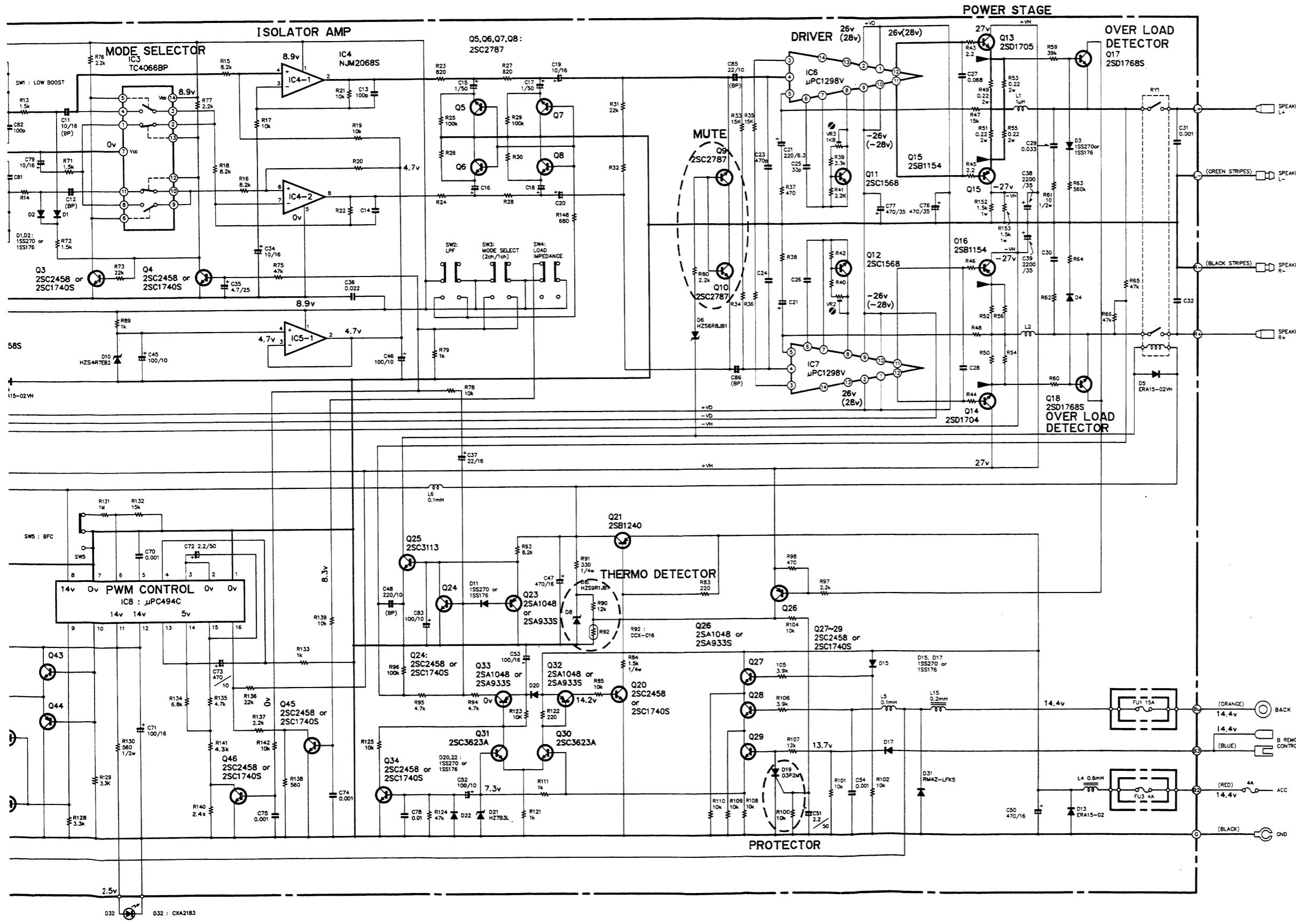


A

B

C

D



1

2

3

4

5

6

11. CONNECTION DIAGRAM (GM-2000/UC)

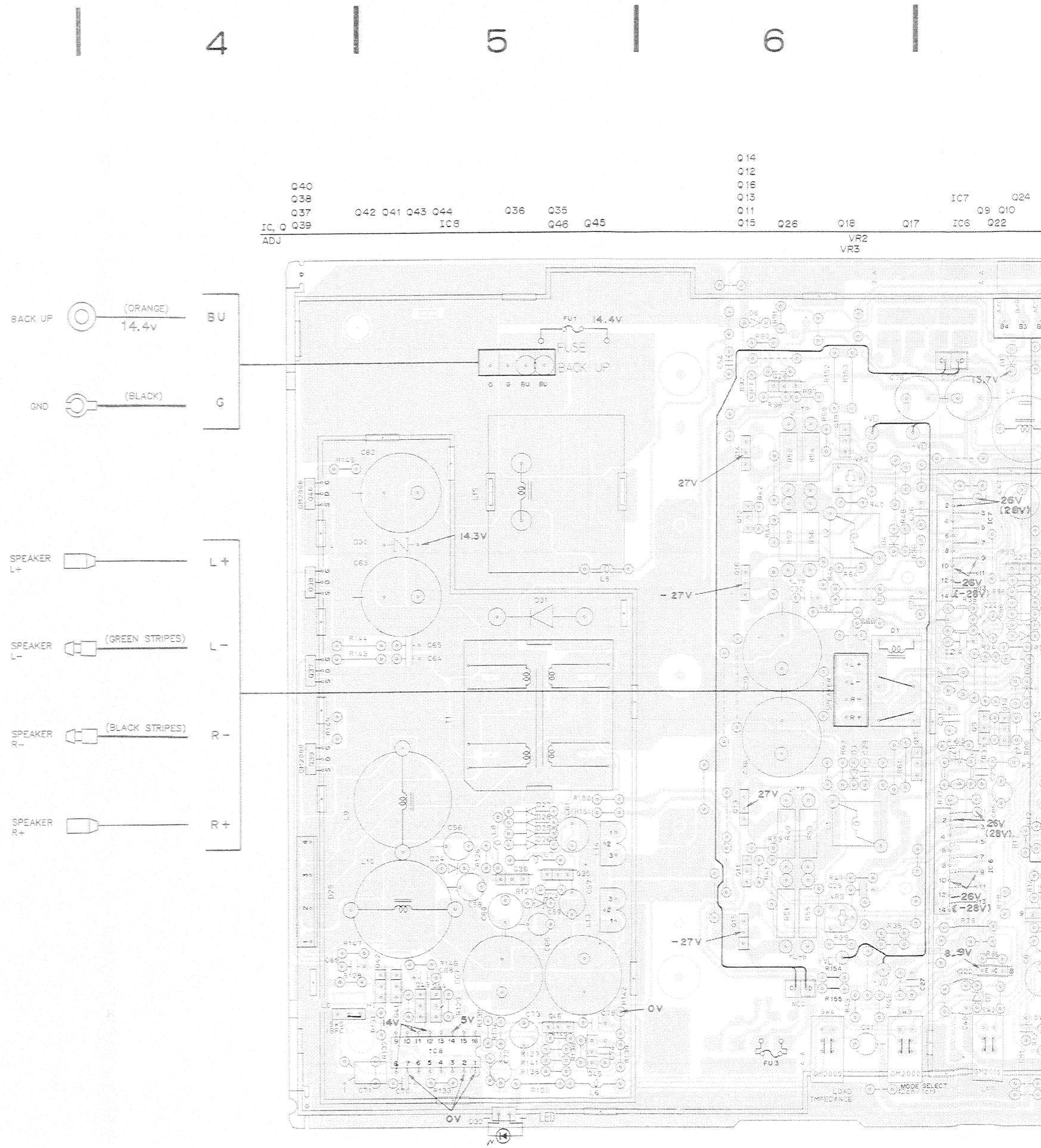
A

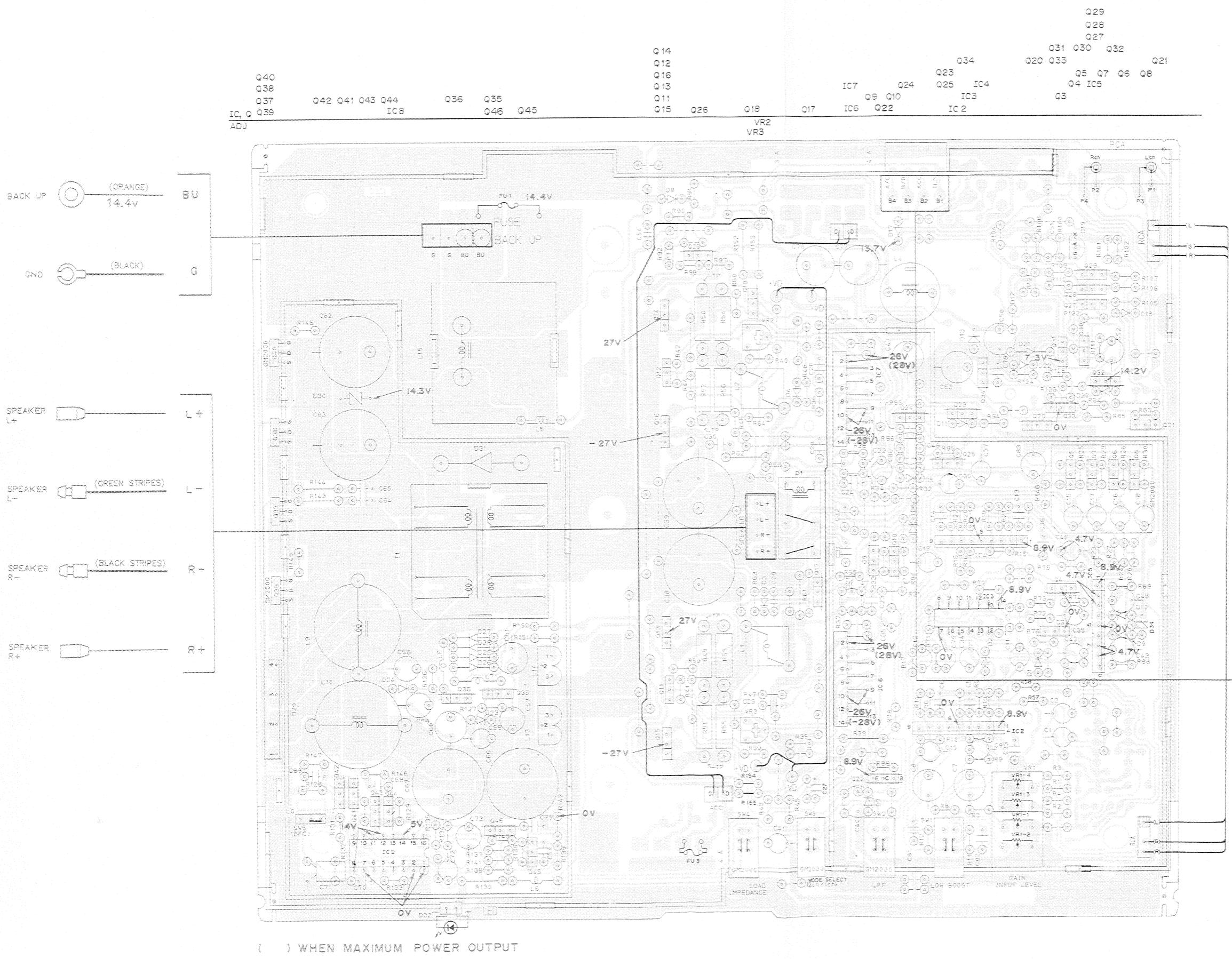
B

C

D

| Pattern symbol | Schematic symbol | Representation | Remarks |
|----------------|------------------|---------------------------------------|---|
| | | Transistor | Transistor E comes in square , then to left C and B follow unless otherwise indicated. |
| | | FET | |
| | | Thyristor | |
| | | Posistor | |
| | | Electrolytic capacitor (polarized) | In case of polarized electrolytic capacitor, terminal marked indicates +. |
| | | Electrolytic capacitor (polarized) | |
| | | Electrolytic capacitor (nonpolarized) | |
| | | Capacitor | |
| | | Resistor | |
| | | Filter | |
| | | Semi-fixed resistor | |
| | | Jumper | |





A

B

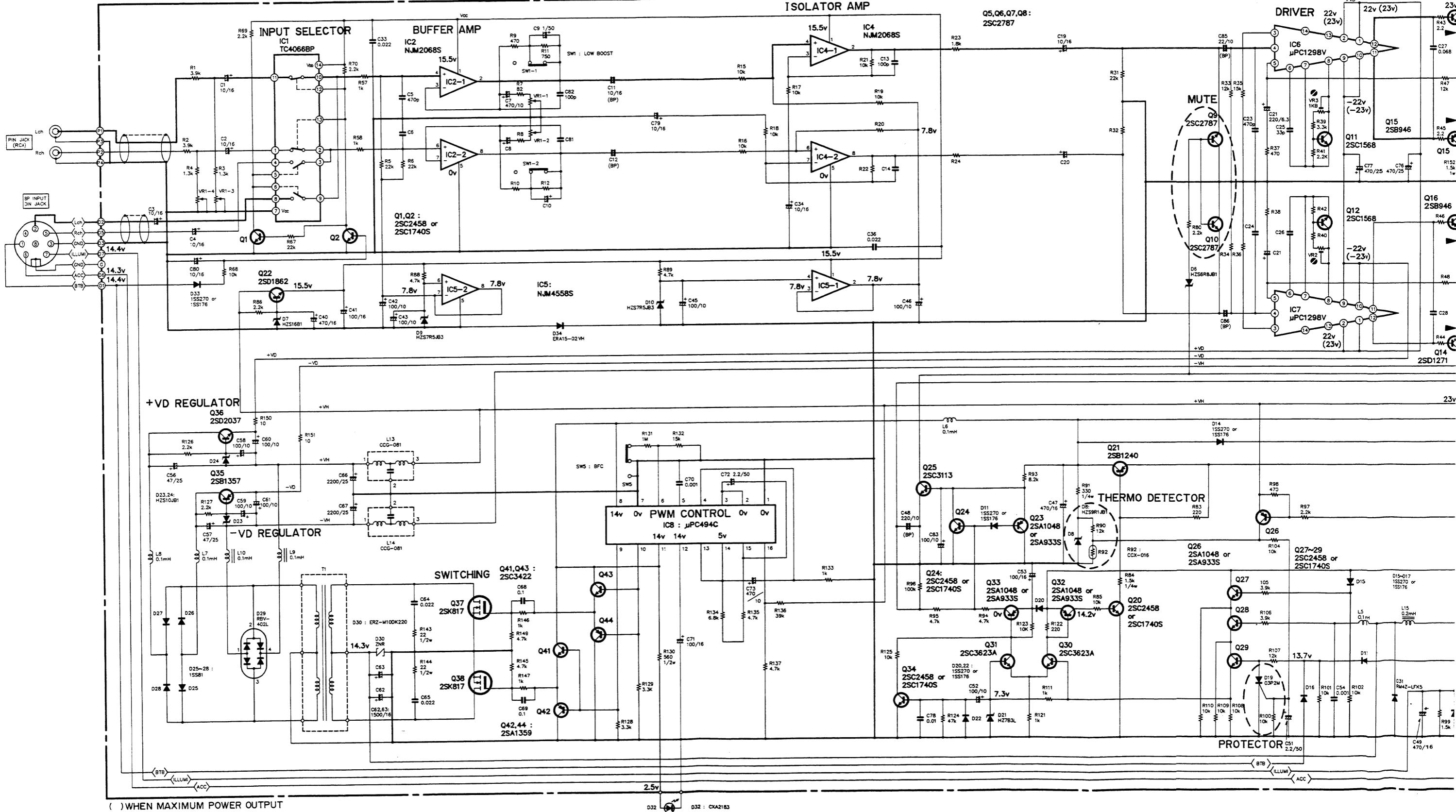
C

D

Fig. 24

12. SCHEMATIC CIRCUIT DIAGRAM (GM-1000/ES)

MAIN UNIT



4

5

6

7

8

9

A

B

C

D

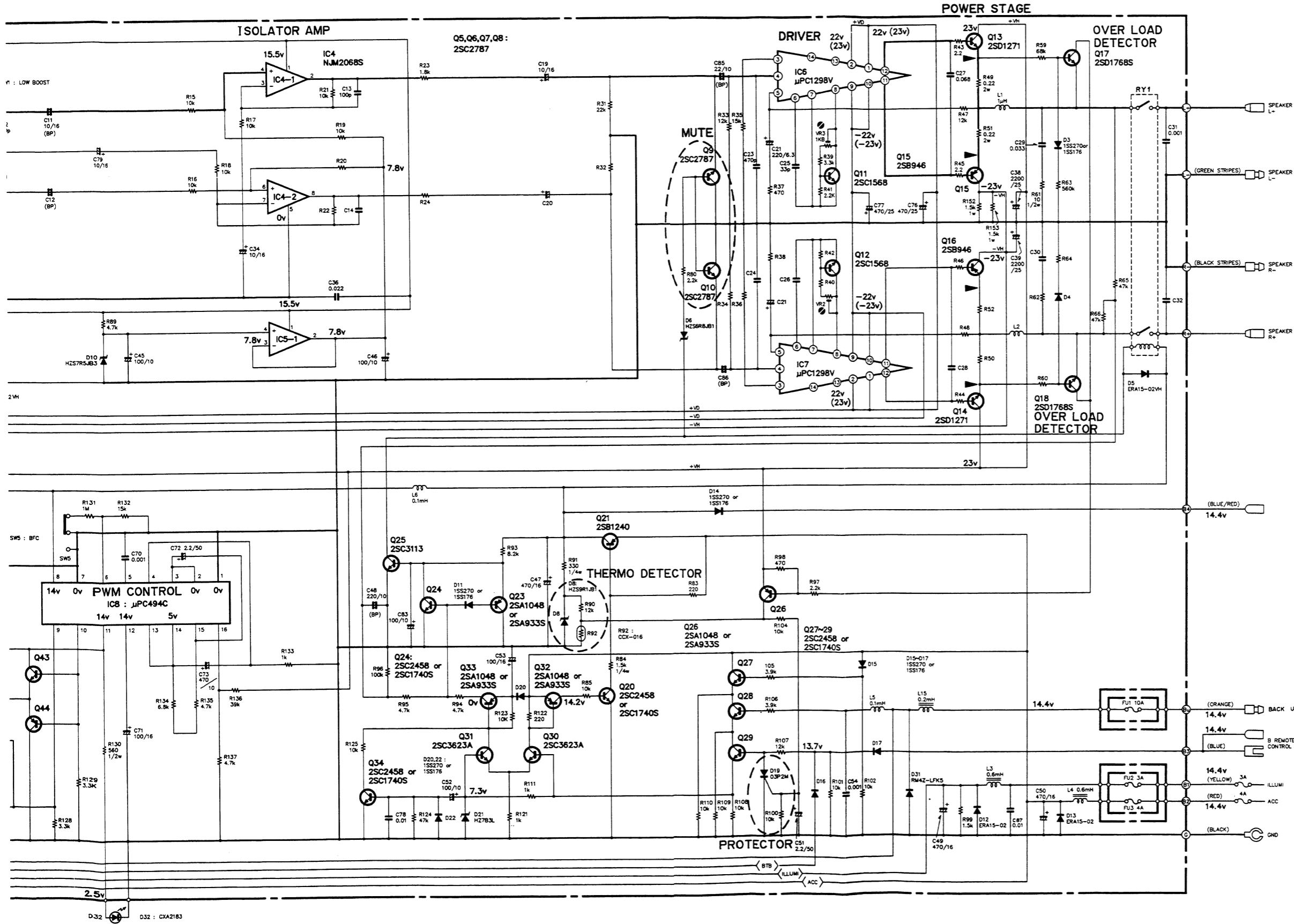


Fig. 25

13. CONNECTION DIAGRAM (GM-1000/ES)

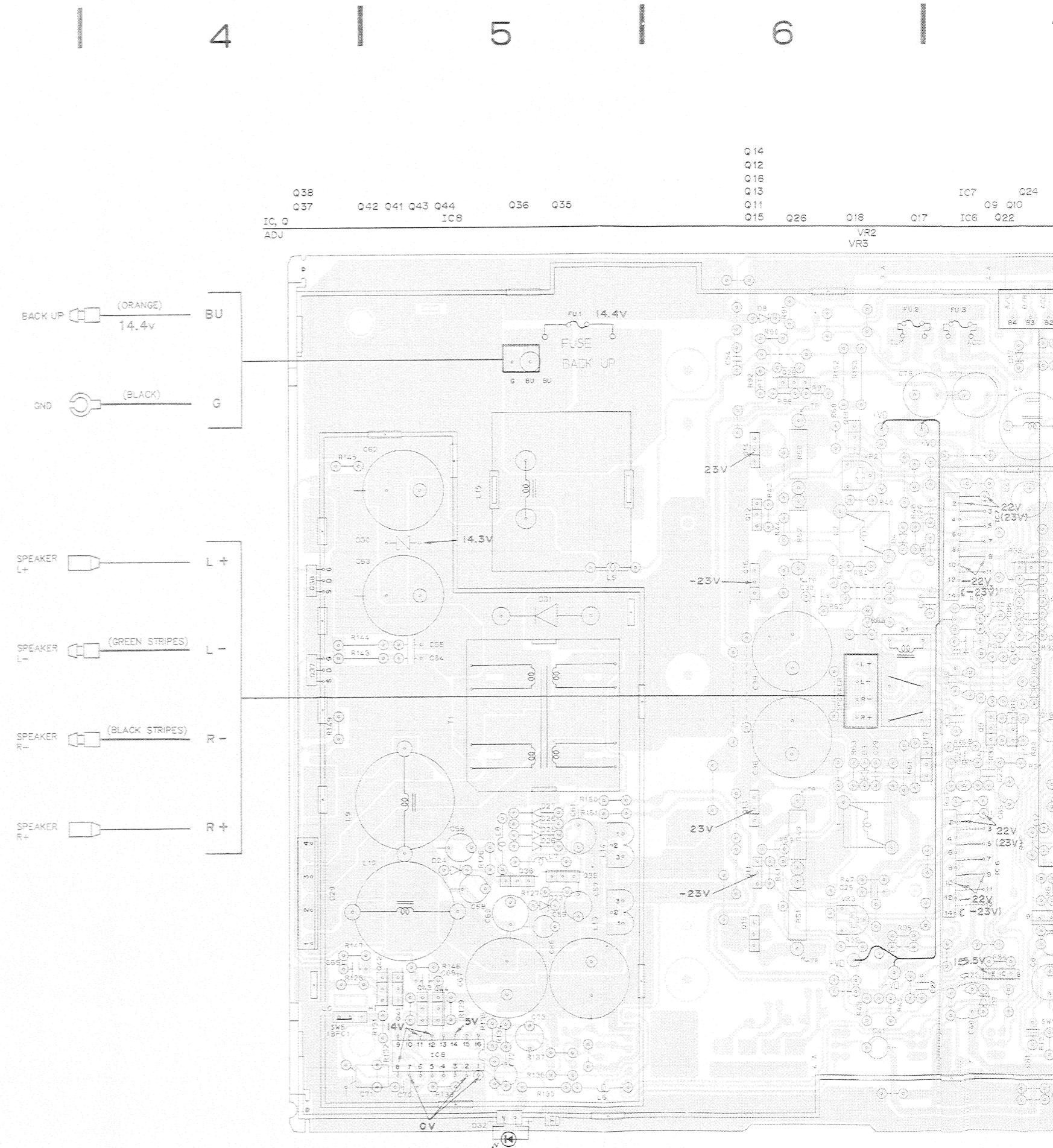
A

| Pattern symbol | Schematic symbol | Representation | Remarks |
|----------------|------------------|---------------------------------------|---|
| | | Transistor | Transistor E comes in square , then to left C and B follow unless otherwise indicated. |
| | | FET | |
| | | Thyristor | |
| | | Posistor | |
| | | Electrolytic capacitor (polarized) | In case of polarized electrolytic capacitor, terminal marked indicates +. |
| | | Electrolytic capacitor (polarized) | |
| | | Electrolytic capacitor (nonpolarized) | |
| | | Capacitor | |
| | | Resistor | |
| | | Filter | |
| | | Semi-fixed resistor | |
| | | Jumper | |

B

C

D



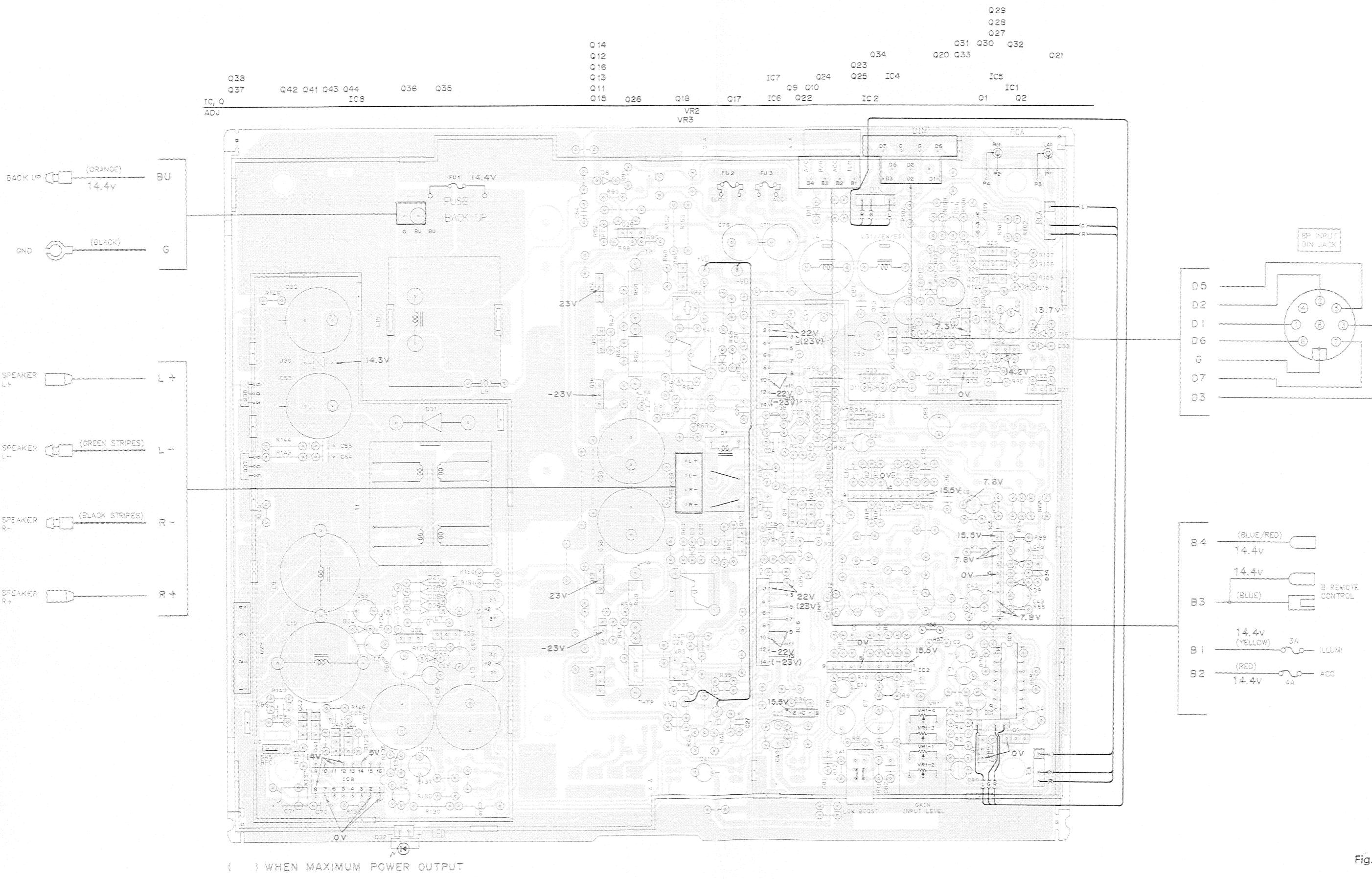
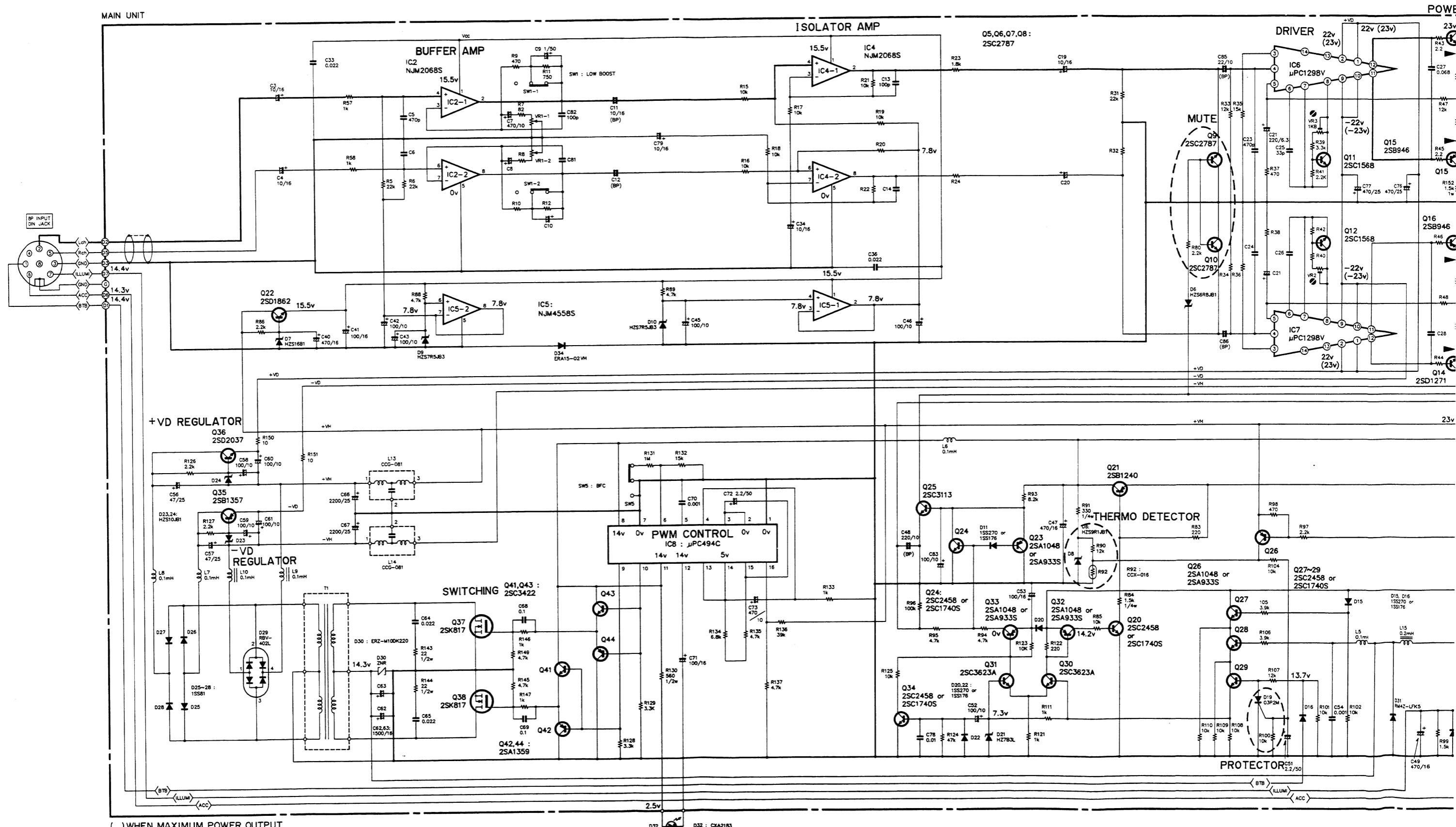


Fig. 26

14. SCHEMATIC CIRCUIT DIAGRAM (GM-1000/EW)



() WHEN MAXIMUM POWER OUTPUT

A

B

C

D

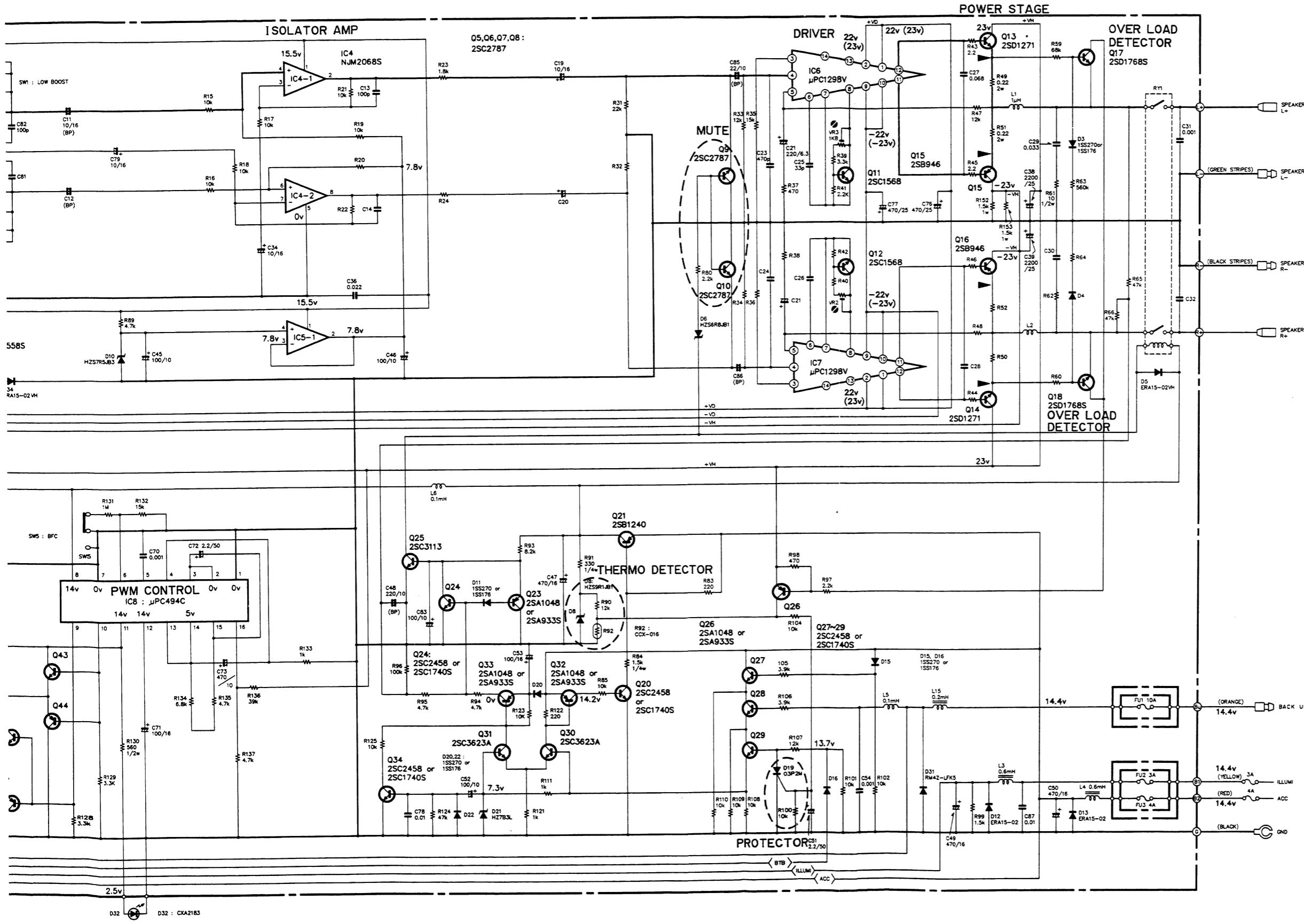


Fig. 27

1

2

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4

5

6

15. CONNECTION DIAGRAM (GM-1000/EW)

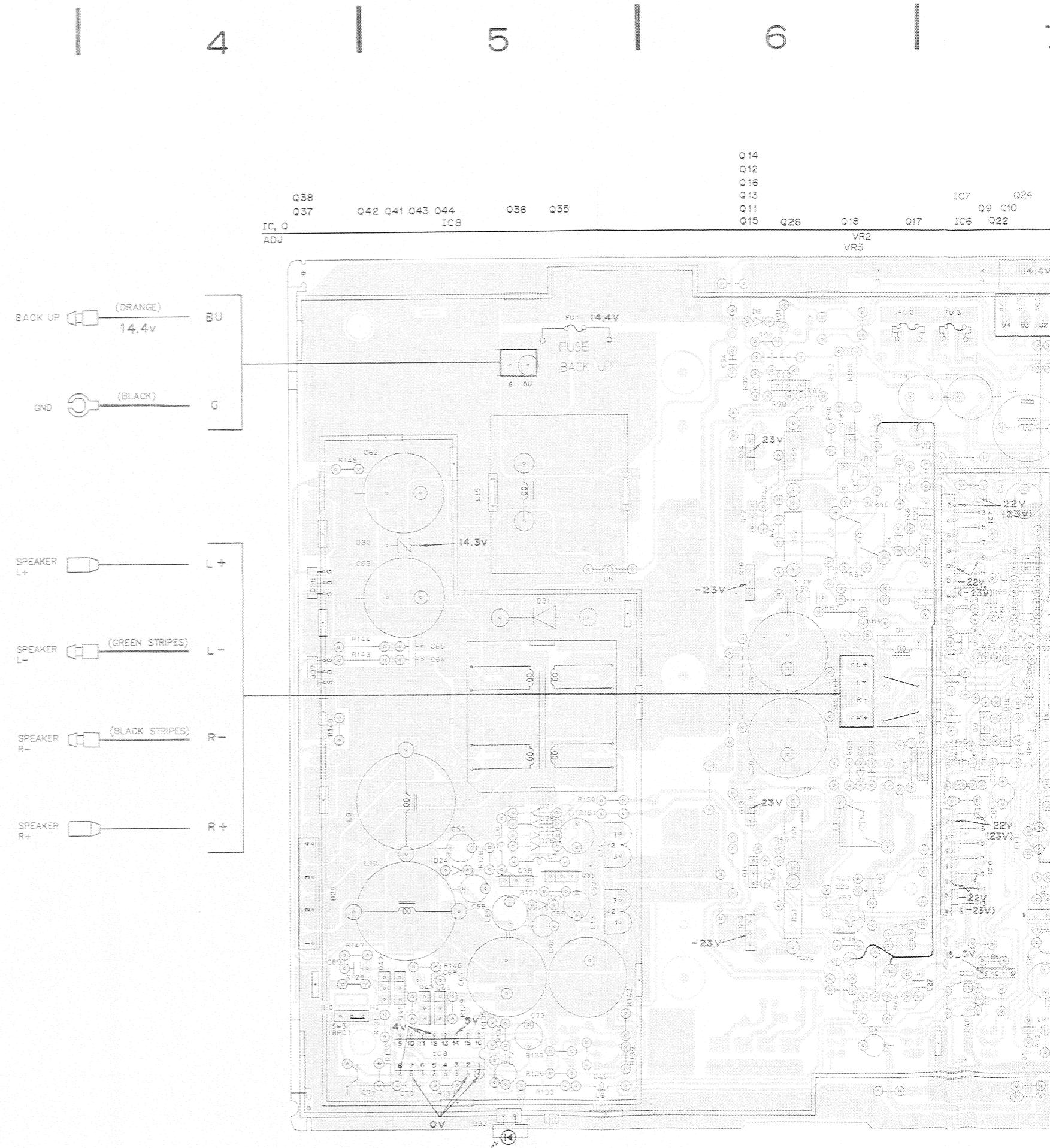
A

B

C

D

| Pattern symbol | Schematic symbol | Representation | Remarks |
|----------------|------------------|---------------------------------------|---|
| | | Transistor | Transistor E comes in square , then to left C and B follow unless otherwise indicated. |
| | | FET | |
| | | Thyristor | |
| | | Posistor | |
| | | Electrolytic capacitor (polarized) | In case of polarized electrolytic capacitor, terminal marked indicates +. |
| | | Electrolytic capacitor (polarized) | |
| | | Electrolytic capacitor (nonpolarized) | |
| | | Capacitor | |
| | | Resistor | |
| | | Filter | |
| | | Semi-fixed resistor | |
| | | Jumper | |



1

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6

7

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9

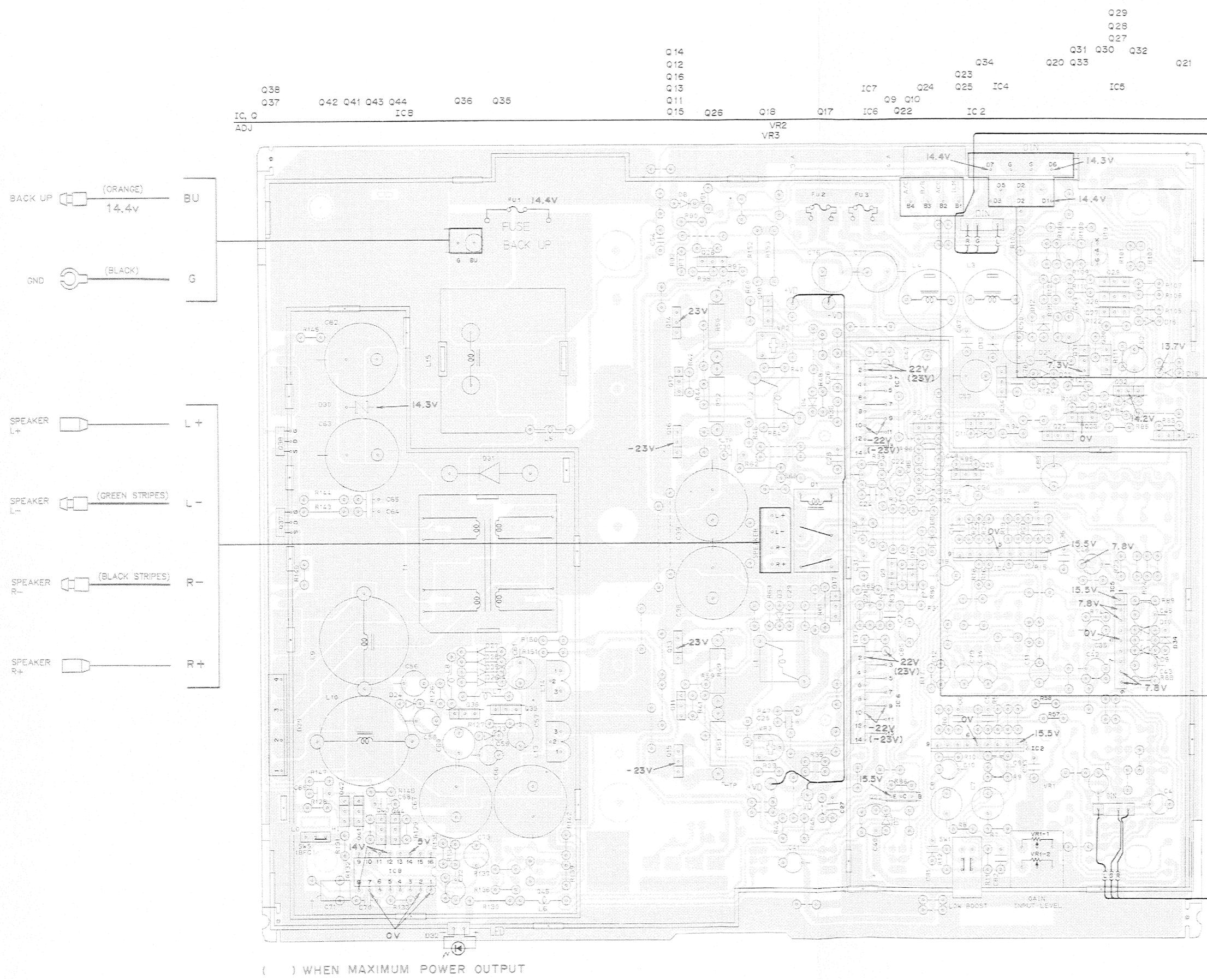
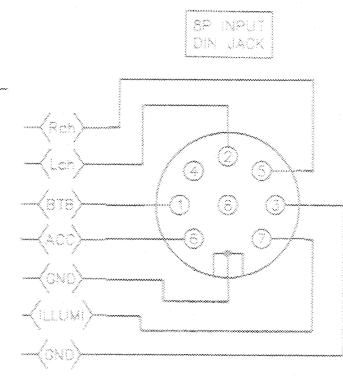
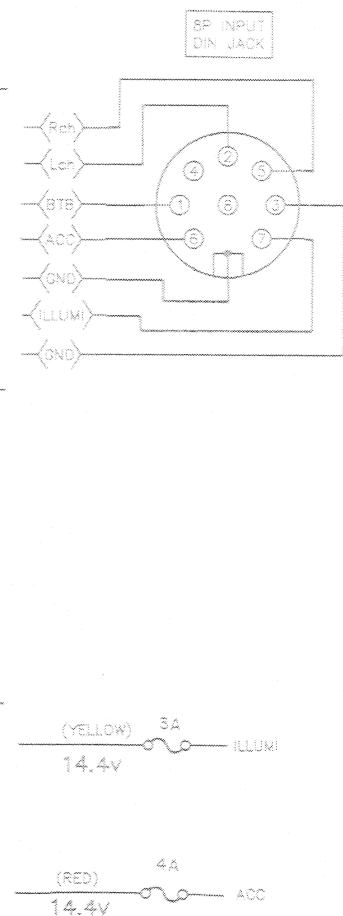


Fig. 28



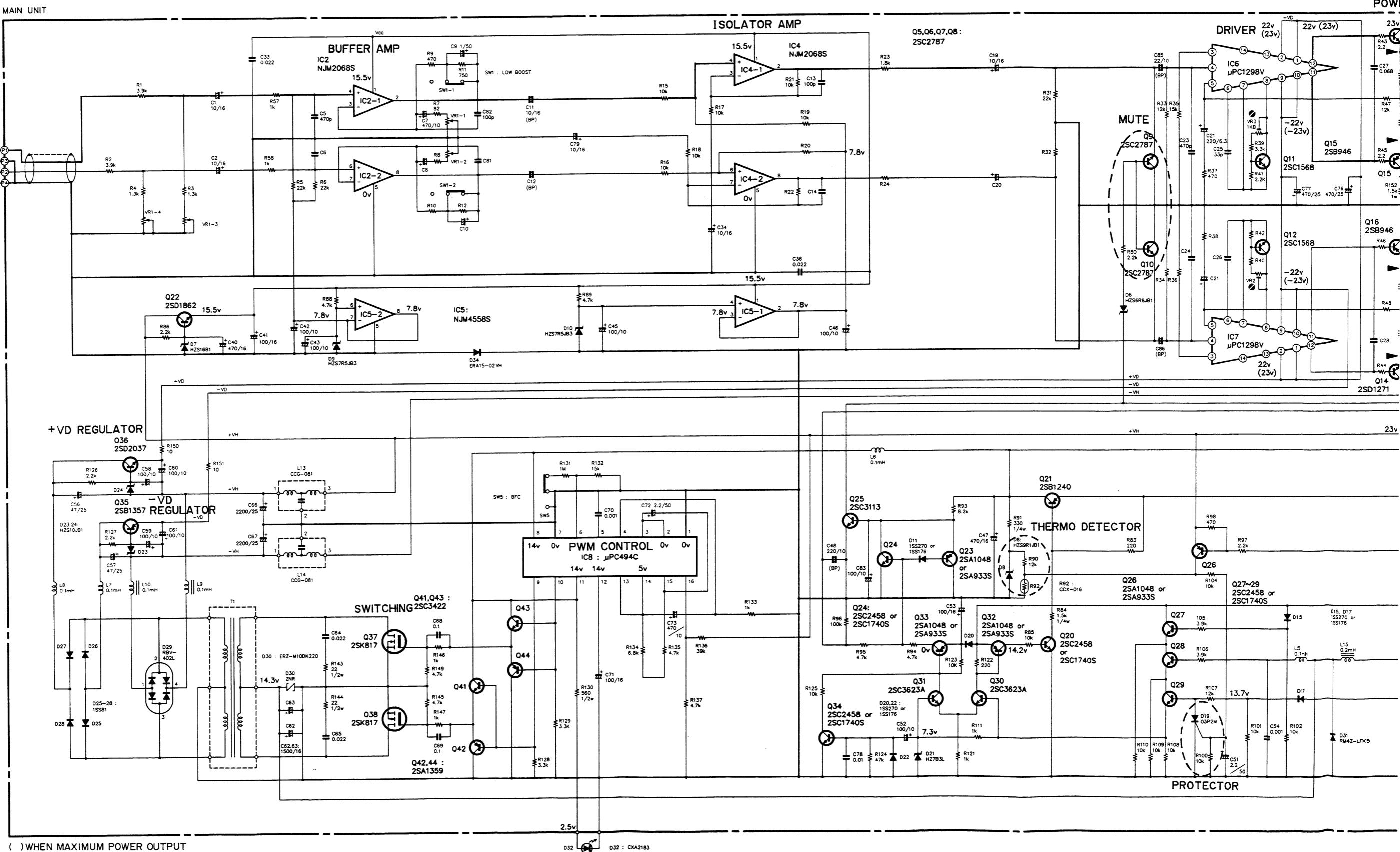
D

A

B

C

16. SCHEMATIC CIRCUIT DIAGRAM (GM-1000/UC)



4

5

6

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8

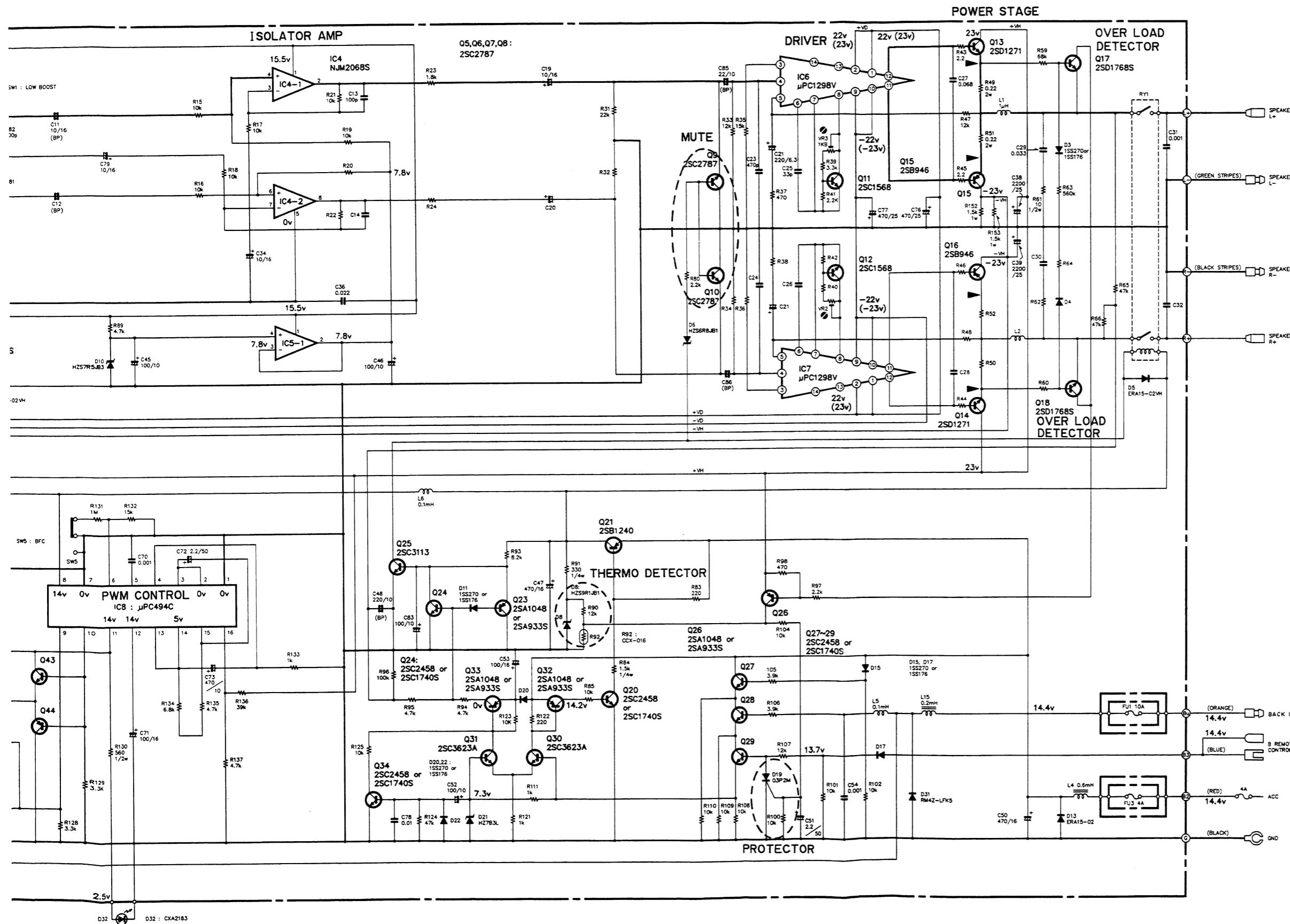
9

A

B

C

D



17. CONNECTION DIAGRAM (GM-1000/UC)

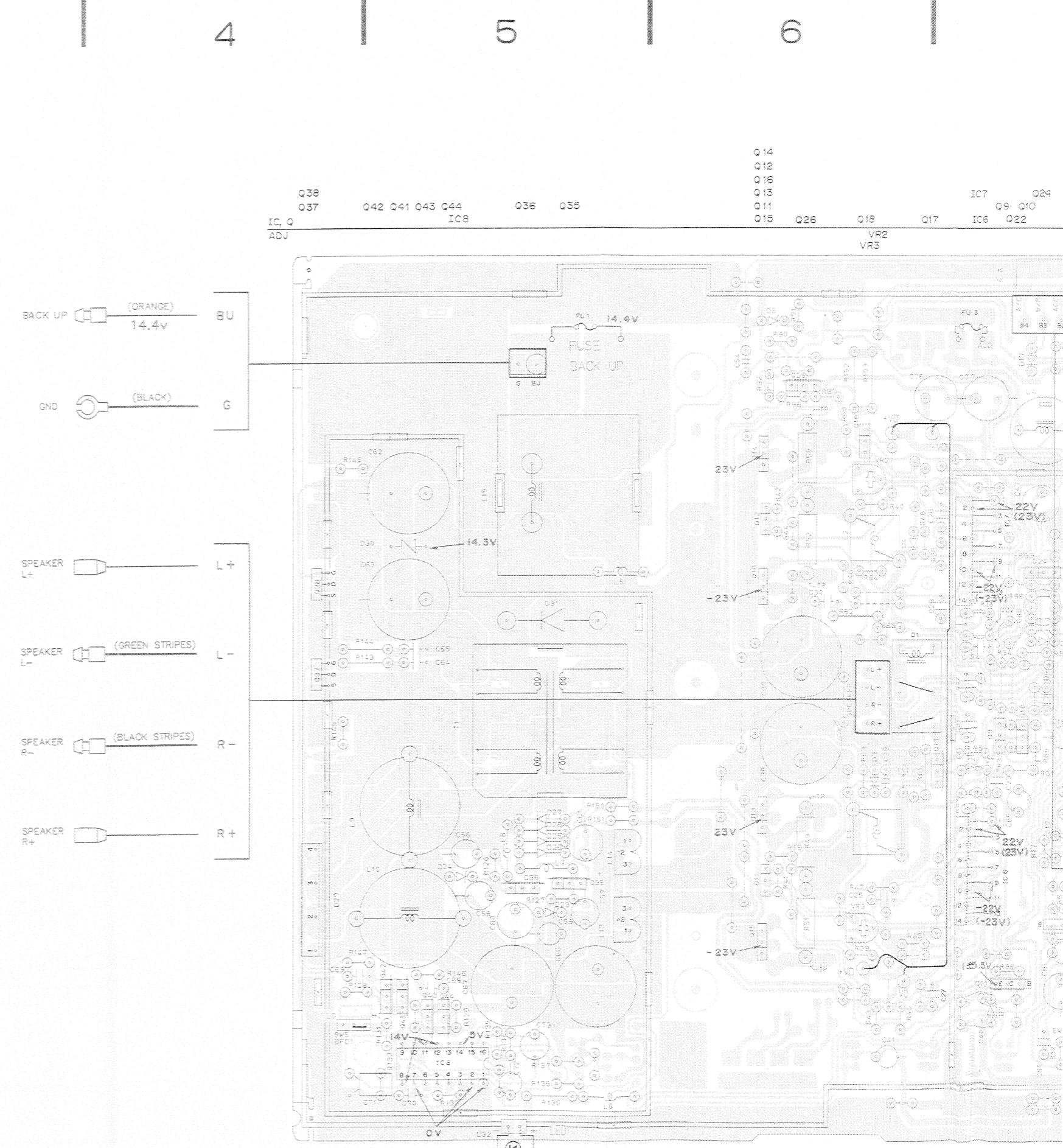
A

B

C

D

| Pattern symbol | Schematic symbol | Representation | Remarks |
|----------------|------------------|---------------------------------------|---|
| | | Transistor | Transistor E comes in square , then to left C and B follow unless otherwise indicated. |
| | | FET | |
| | | Thyristor | |
| | | Posistor | |
| | | Electrolytic capacitor (polarized) | In case of polarized electrolytic capacitor, terminal marked indicates +. |
| | | Electrolytic capacitor (polarized) | |
| | | Electrolytic capacitor (nonpolarized) | |
| | | Capacitor | |
| | | Resistor | |
| | | Filter | |
| | | Semi-fixed resistor | |
| | | Jumper | |



1

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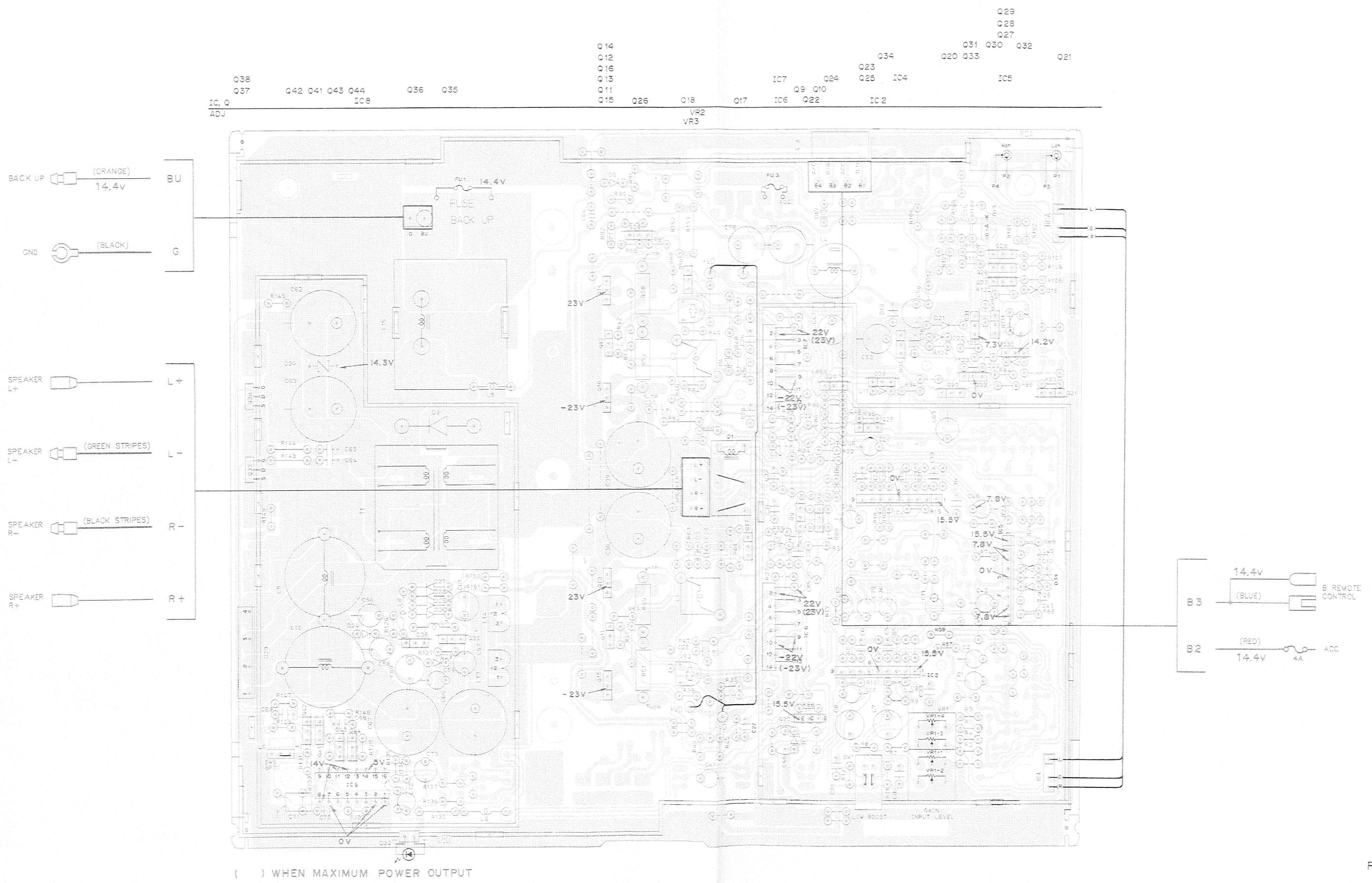
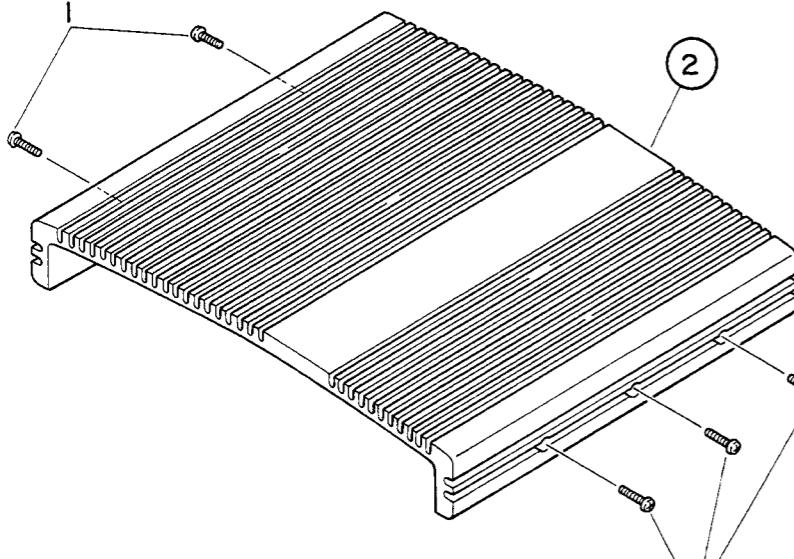


Fig. 30

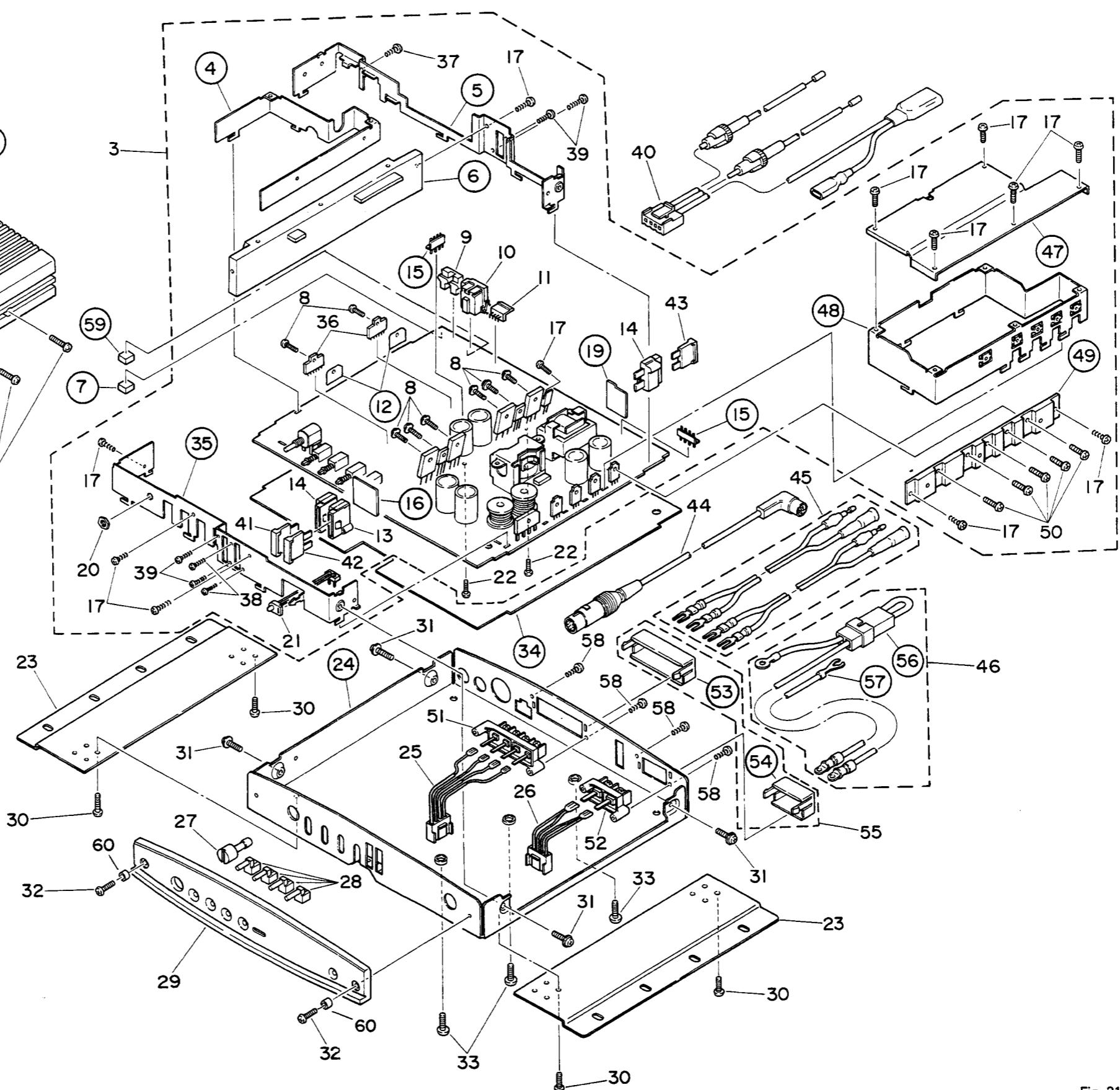
18. EXPLODED VIEW

18.1 GM-2000

A



B



C

A

B

C

D

| NOTE: | | |
|--------------------|--------------------|-----------------|
| • For your Parts S | ★ ★ and ★. | |
| ★ ★ : GENERA. | This classificatio | number, temper. |
| • Parts whose par | | |
| • Parts marked by | | longer than usu |
| ● Parts List | | |
| Mark | No. | Pa |
| 1 | 2 | AM |
| 3 | CW | |
| 4 | 5 | |
| 5 | 6 | |
| 6 | 7 | |
| 8 | PM | |
| 9 | CK | |
| 10 | CK | |
| 11 | CK | |
| 12 | CK | |
| 13 | CK | |
| 14 | CK | |
| 15 | | |
| 16 | | |
| 17 | BM | |
| 18 | .. | |
| 19 | | |
| 20 | CB | |
| 21 | CX | |
| 22 | BM | |
| 23 | CN | |
| 24 | | |
| 25 | CD | |
| 26 | CD | |
| 27 | CA | |
| 28 | CA | |
| 29 | CX | |
| 30 | CX | |

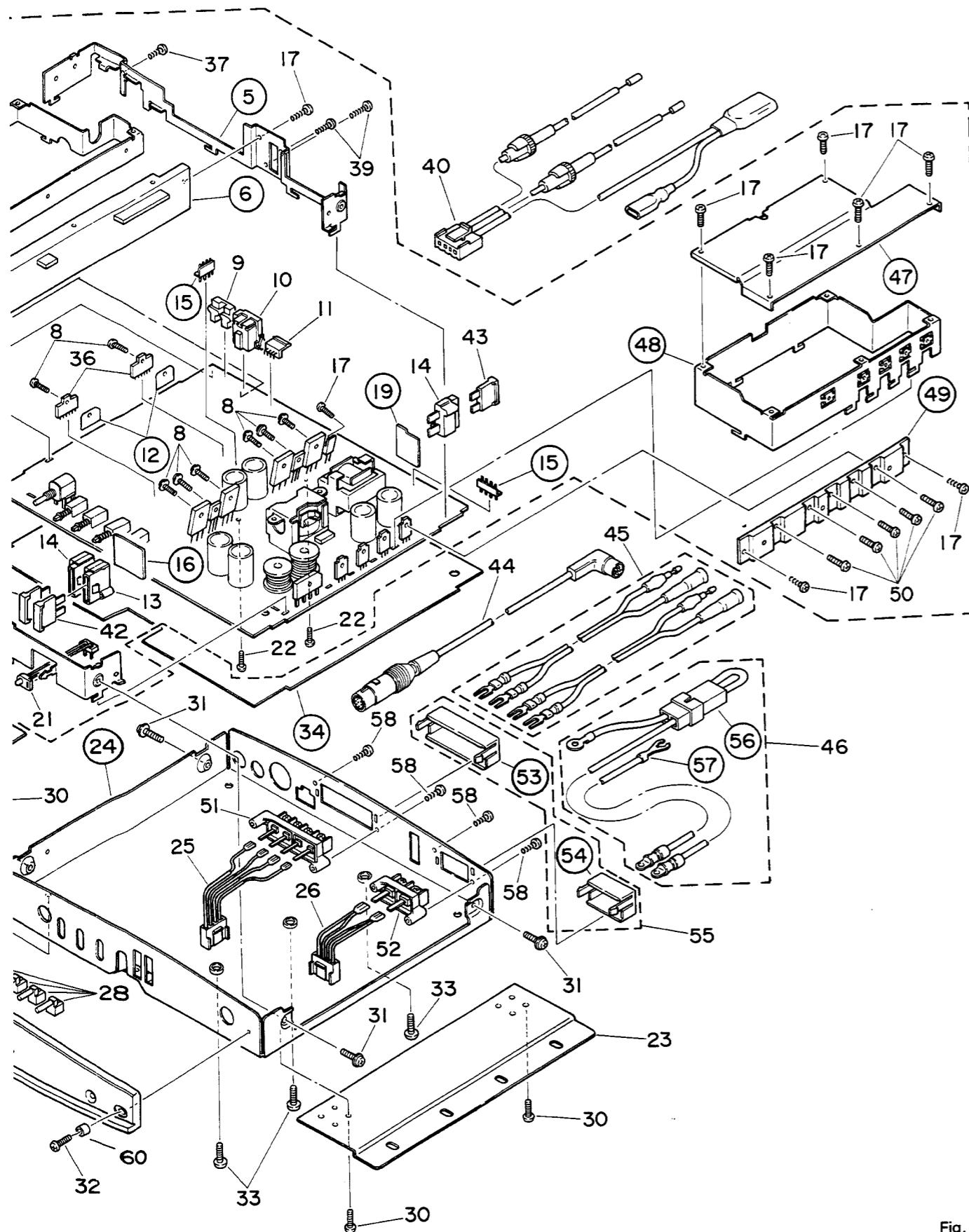
Fig. 31

4

5

6

L



A

B

C

D

NOTE:

- For your Parts Stock Control, the fast moving items are indicated with the marks ★★ and ★.
- ★★: GENERALLY MOVES FASTER THAN ★.
- This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- Parts whose parts numbers are omitted are subject to being not supplied.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

• Parts List

| Mark | No. | Part No. | Description | Mark | No. | Part No. | Description |
|------|-----|--------------|------------------------|------|-----|--------------|-----------------------|
| | 1 | AMZ30P080FZK | Screw | | 30 | CXA2415 | Grille Assy(EW) |
| | 2 | | Heat Sink Assy(ES, EW) | | 31 | BMZ50P060FZK | Screw |
| | 3 | CWM1640 | Heat Sink Assy(UC) | | 32 | BMZ30P050FMC | Screw |
| ● | 3 | CWM1639 | Main Unit(ES) | | 33 | BMZ30P080FZK | Screw |
| ● | 4 | CWM1641 | Main Unit(UC) | | 34 | | Insulator |
| | 5 | | Main Unit(EW) | ★★ | 35 | Bracket | |
| | 6 | | Shield | | 36 | μPC1298V | IC |
| | 7 | | Bracket | | 37 | BMZ20P080FMC | Screw(ES, EW) |
| | | | Heat Sink | | 38 | PTZ20P080FMC | Screw(ES, EW) |
| | 8 | PMF30P100FMC | Cushion | | 39 | PTZ20P080FMC | Screw |
| | 9 | CKS1466 | Screw | ★ | 40 | CDE2106 | Cord Assy(ES) |
| | 10 | CKS1156 | Pin Jack(ES, UC) | ★ | 41 | CDE2107 | Cord Assy(UC) |
| | 11 | CKS1340 | Connector(ES, EW) | ★ | 42 | CDE2105 | Cord Assy(EW) |
| | 12 | | Connector(4P) | ★★ | 43 | CEK1001 | Fuse(4A) |
| | | | Rubber | | 44 | | |
| | 13 | CKR1001 | Fuse Holder(ES, EW) | ★★ | 45 | CEK1134 | Fuse(3A)(ES, EW) |
| | 14 | CKR1001 | Fuse Holder | ★★ | 46 | CEK1137 | Fuse(15A) |
| | 15 | | Plug(4P) | | 47 | CDE1846 | DIN Connector(EW) |
| | 16 | | P.C. Board | | 48 | CDE2018 | Cord |
| | 17 | BMZ30P050FMC | Screw | ★ | 49 | CDE1997 | Cord Assy(ES, UC, EW) |
| | 18 | | | | 50 | | Shield |
| ★ | 19 | | P.C. Board | | 51 | BMZ26P080FMC | Shield |
| | 20 | CBN-032 | Nut | | 52 | CKE1004 | Heat Sink |
| | 21 | CXA2183 | LED Assy | | 53 | | Screw |
| | 22 | BMZ30P060FMC | Screw | | 54 | | 4P Terminal |
| | 23 | CNC2099 | Bracket | | 55 | | |
| | 24 | | Case(ES) | | 56 | CKE1007 | 2P Terminal |
| | | | Case(UC) | | 57 | | Cover |
| | | | Case(EW) | | 58 | CAA1135 | Cover |
| | 25 | CDE2028 | Cord(4P) | | 59 | CAC1701 | Cover Assy |
| ★ | 26 | CDE2030 | Cord(4P) | | 60 | CXA2378 | Cord |
| ★ | 27 | CAA1135 | Knob | | | CXA2423 | Screw |
| ★ | 28 | CAC1701 | Button | | | | Cushion |
| | 29 | CXA2378 | Grille Assy(ES) | | | | Collar |
| | | CXA2423 | Grille Assy(UC) | | | | |

Fig. 31

4

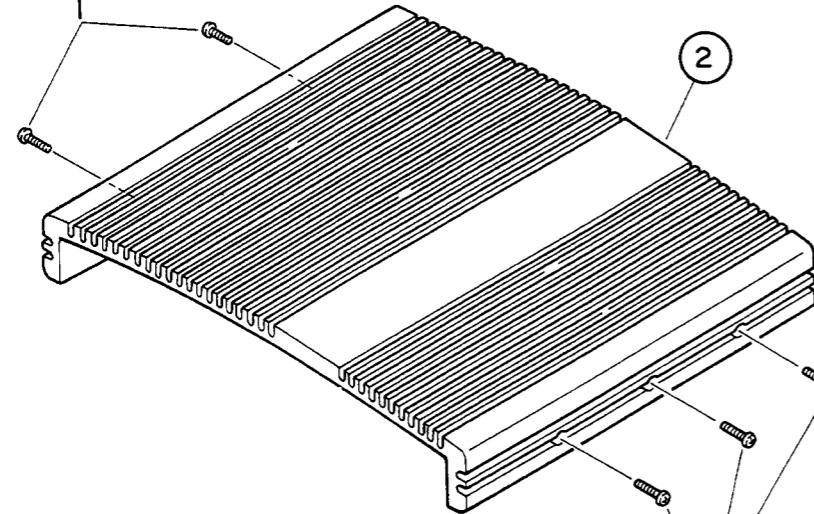
5

6

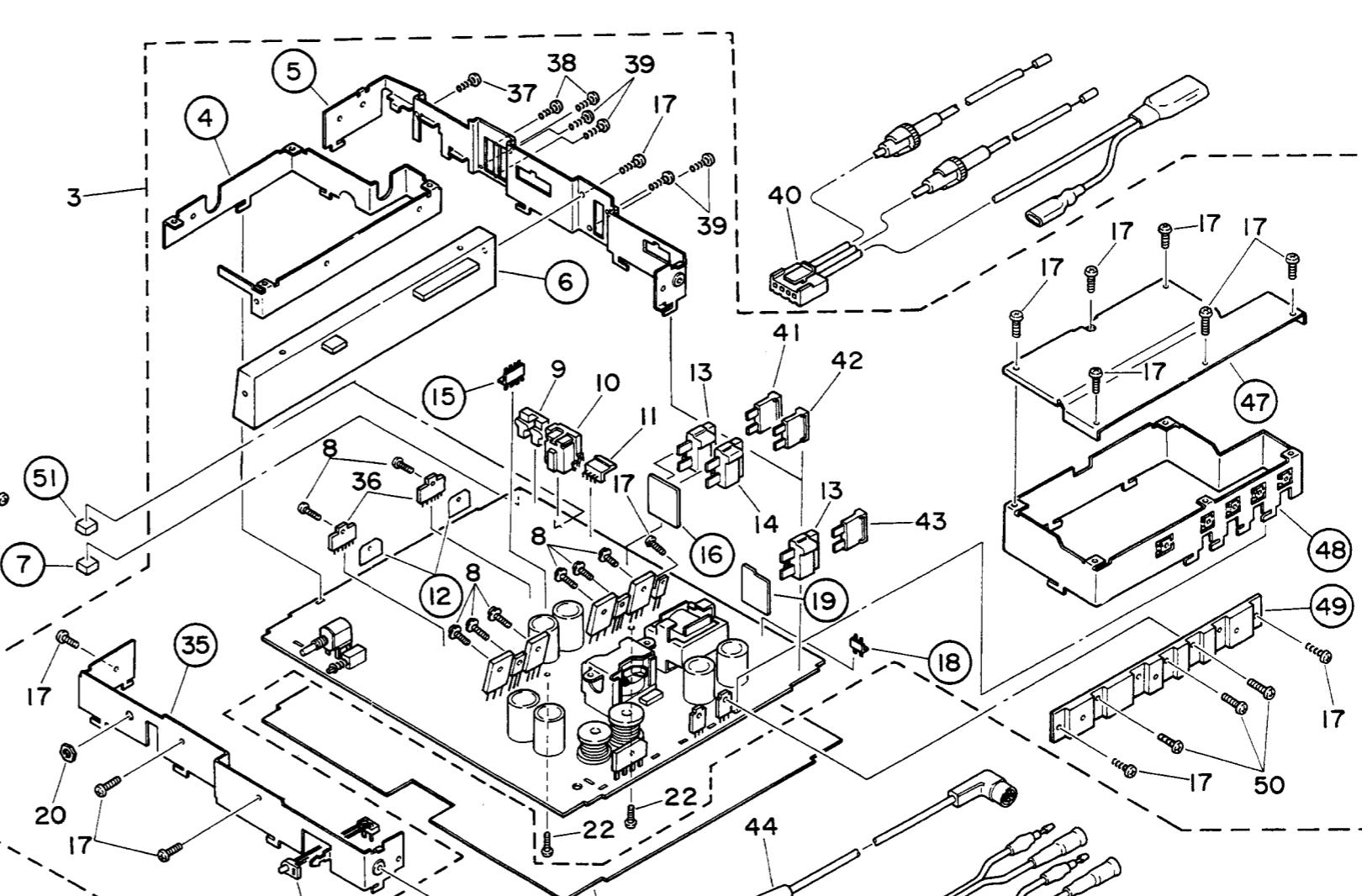
L

18.2 GM-1000

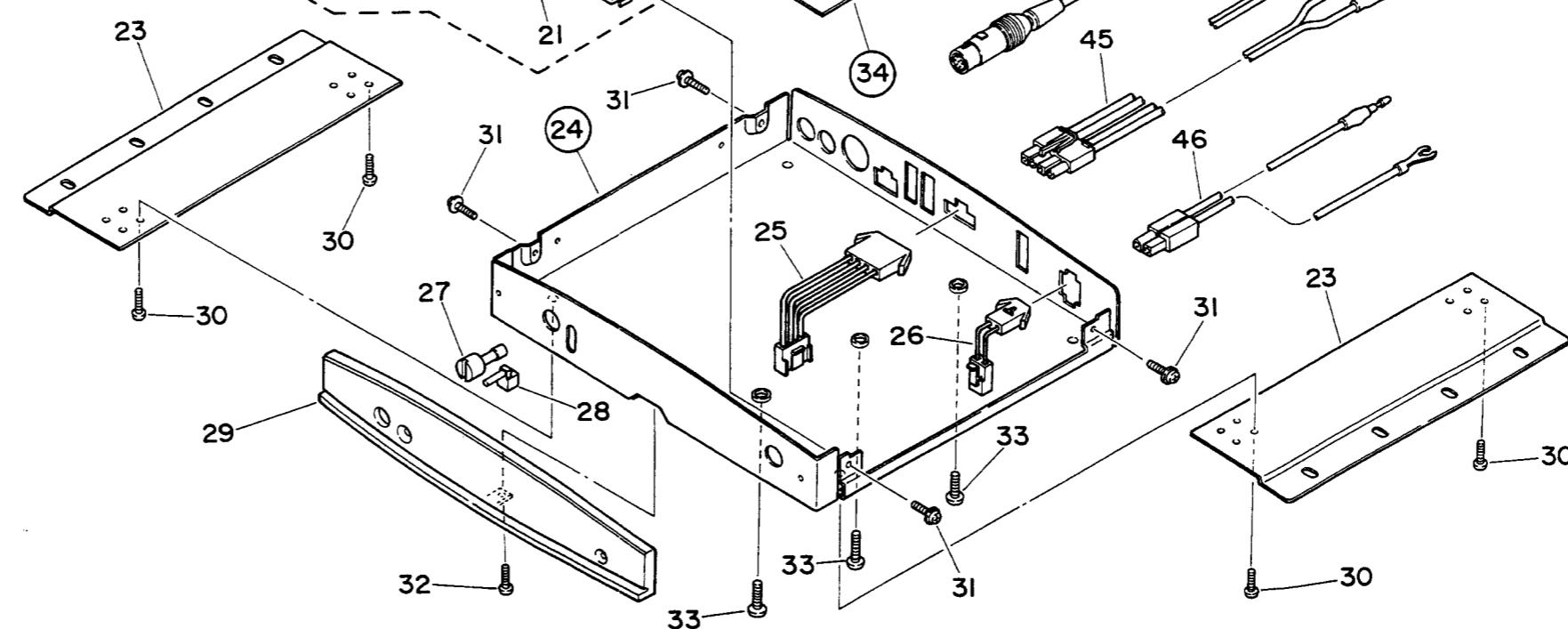
A



B



C



D

A

B

C

D

Fig. 32

| ● Parts List | | | | | | | |
|--------------|-----|--------------|-----------------------|------|-----|--------------|-----------------------|
| Mark | No. | Part No. | Description | Mark | No. | Part No. | Description |
| | 1 | AMZ30P120FZK | Screw | ★ | 26 | CDE1885 | Cord(4P) |
| | 2 | | Heat Sink Assy(ES,EW) | ★ | 27 | CAA1135 | Knob |
| | | | Heat Sink Assy(UC) | ★ | 28 | CAC1701 | Button |
| ◎ | 3 | CWM1644 | Main Unit(ES) | | 29 | CXA2379 | Grille Assy(ES, UC) |
| ◎ | 4 | CWM1643 | Main Unit(UC) | | | CXA2417 | Grille Assy(UC) |
| ◎ | 5 | CWM1645 | Main Unit(EW) | | 30 | BMZ50P060FZK | Screw |
| | 6 | | Shield | | 31 | BMZ30P050FMC | Screw |
| | 7 | | Bracket | | 32 | BMZ30P050FZK | Screw |
| | | | Heat Sink | | 33 | BMZ40P080FMC | Screw |
| | | | Cushion | | 34 | | Insulator |
| | 8 | PMF30P080FMC | Screw | | 35 | | |
| | 9 | CKS1466 | Pin Jack(ES, UC) | ★★ | 36 | μPC1298V | Bracket |
| | 10 | CKS1156 | Connector(ES, EW) | | 37 | BMZ20P080FMC | IC |
| | 11 | CKS1340 | Connector(4P) | | 38 | PTZ20P080FMC | Screw(ES, EW) |
| | 12 | | Rubber | | 39 | PTZ20P080FMC | Screw(ES, EW) |
| | 13 | CKR1001 | Fuse Holder | ★ | 40 | CDE2110 | Screw |
| | 14 | CKR1001 | Fuse Holder(ES, EW) | | | CDE2111 | Cord Assy(ES) |
| | 15 | | Plug(4P) | | | CDE2109 | Cord Assy(UC) |
| | 16 | | P.C. Board | ★★ | 41 | CEK1001 | Cord Assy(EW) |
| | 17 | BMZ30P050FMC | Screw | ★★ | 42 | CEK1134 | Fuse(4A) |
| ★ | 18 | | Plug(2P) | ★★ | 43 | CEK1136 | Fuse(3A) (ES, EW) |
| | 19 | | P.C. Board | | 44 | CDE1847 | DIN Connector(EW) |
| | 20 | CBN-032 | Nut | | 45 | CDE1836 | Cord |
| | 21 | CXA2183 | LED Assy | ★ | 46 | CDE1840 | Cord Assy(ES, UC, EW) |
| | 22 | BMZ30P060FMC | Screw | | 47 | | Shield |
| | 23 | CNC2099 | Bracket | | 48 | | |
| | 24 | | Case(ES) | | 49 | | Heat Sink |
| | | | Case(UC) | | 50 | BMZ26P080FMC | Screw |
| | | | Case(EW) | | 51 | | Cushion |
| | 25 | CDE1839 | Cord(4P) | | | | |

19. ELECTRICAL PARTS LIST

NOTE:

- For your Parts Stock Control, the fast moving items are indicated with the marks **##** and *****.
- ##** : GENERALLY MOVES FASTER THAN *****.
This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/BS □□□J

Chip Capacitor (except for CQS.)

CKS., CCS.

Model Number : GM-2000/ES UC EW

Unit Number :

Unit Name : Main unit

MISCELLANEOUS

| Mark | Circuit Symbol & No. | Part Name | Part No. | Mark | Circuit Symbol & No. | Part Name | Part No. |
|----------------------------------|----------------------|--------------------------|-----------------|------|----------------------|------------|--------------|
| ## IC 1 | (ES) | TC4066BP | * D 9 10 | | | | HZS4R7EB2 |
| ## IC 2 4 | | NJM2068S | | | | | (RD4R5ESB2) |
| ## IC 3 | | TC4066BP | * D 12 | | (ES EW) | ERA15-02VH | |
| ## IC 5 | | NJM4558S | * D 16 | | (EW) | ISS176 | |
| ## IC 6 7 | | μPC1298V | | | | | (US1040M) |
| ## IC 8 | | μPC494C | | | | | (1SS270) |
| ## Q 1 2 | (ES) | 2SC2458 (2SC1740S) | * D 16 17 33 | | (ES) | ISS176 | |
| ## Q 3 4 20 24 27 28 29 34 45 46 | | 2SC2458 (2SC1740S) | * D 17 | | (UC) | (US1040M) | |
| ## Q 5 6 7 8 9 10 | | 2SC2787 | | | | | (1SS270) |
| ## Q 11 12 | | 2SC1568 | | | | | 03P2M |
| ## Q 13 14 | | 2SD1704 | * D 19 | | | | HZ7B3L |
| ## Q 15 16 | | 2SB1154 | * D 21 | | | | HZS4R3EB1 |
| ## Q 17 18 | | 2SD1768S | * D 23 24 | | | | |
| ## Q 23 26 32 33 | | 2SA1048 (2SA933S) | * D 25 26 27 28 | | | | (RD4R3ESB1) |
| ## Q 21 | | 2SB1240 | * D 29 | | | | 1SS81 |
| ## Q 22 | | 2SD2037 | * D 30 | | | | RBV-402L |
| ## Q 25 | | 2SC3113 | * D 31 | | | | ERZ-M10DK220 |
| ## Q 30 31 | | 2SC3623A | * D 32 | | | | RM42-LFK5 |
| ## Q 35 | | 2SB1357 | L 1 2 | | | | CXA2183 |
| ## Q 36 | | 2SD2037 | L 3 | | | | CTH1O28 |
| ## Q 37 38 39 40 | | 2SK817 | L 4 | | | | CTH1O48 |
| ## Q 41 43 | | 2SC3422 | L 5 | | | | CTH1O48 |
| ## Q 42 44 | | 2SA1359 | L 6 7 8 | | | | CTF-157 |
| * D 1 2 3 4 11 15 20 22 | | ISS176 (US1040M) | L 9 10 | | | | CCG-081 |
| | | (1SS270) | L 13 14 | | | | CTH1O31 |
| * D 5 13 34 | | ERA15-02VH | * SW 1 2 3 4 | | | | CSG1O23 |
| * D 6 | | HZS6R8JB1 (RD6R8JSB1) | * SW 5 | | | | HSH-156 |
| * D 7 | | HZS9R1JB1 (RD9R1JSB1) | * VR 1 | | | | CCS1O95 |
| * D 8 | | HZS9R1JB1 (RD9R1JSB1) | * VR 1 | | | | CCS1103 |
| | | | * VR 2 3 | | | | VRTBGVS102 |

| Mark | Circuit Symbol & No. | Part Name | Part No. | Mark | Circuit Symbol & No. | Part Name | Part No. |
|--------------------|----------------------|--------------|--------------------|---------|----------------------|-----------|---------------|
| RY 1 | Relay | CSR1010 | R 134 | | | | RD1/4PS6R2JL |
| T 1 | Transformer | CTT1004 | R 136 | | | | RD1/4PS223JL |
| ** FU 1 | Fuse 15A | CEK1137 | R 137 | | | | RD1/4PS222JL |
| ** FU 2 | Fuse 3A (ES EW) | CEK1134 | R 138 | | | | RD1/4PS561JL |
| ** FU 3 | Fuse 4A | CEK1061 | R 140 | | | | RD1/4PS242JL |
| RESISTORS | | | | | | | |
| Mark | Circuit Symbol & No. | Part Name | Part No. | | | | |
| R 1 2 | (ES UC) | RD1/4PS392JL | R 141 | | | | RD1/4PS432JL |
| R 3 4 | (ES UC) | RD1/4PS132JL | R 143 144 | | | | RS1/2P220JL |
| R 5 6 31 32 | | RD1/4PS223JL | R 148 | | | | RD1/4PS681JL |
| R 7 8 | | RD1/4PS820JL | R 150 151 | | | | RD1/4PS330JL |
| R 9 10 37 38 98 | | RD1/4PS471JL | R 152 153 | | | | RS1P152JL |
| | | | R 154 155 | | | | RD1/4PS220JL |
| CAPACITORS | | | | | | | |
| Mark | Circuit Symbol & No. | Part Name | Part No. | | | | |
| R 11 12 | | RD1/4PS751JL | C 1 2 | (ES UC) | | | CEKA100M16 |
| R 13 14 71 72 | | RD1/4PS152JL | C 3 4 | (ES EW) | | | CEKA100M16 |
| R 15 16 18 93 | | RD1/4PS822JL | C 5 6 23 24 | | | | CKCYB71K50 |
| R 17 19 20 21 22 | | RD1/4PS103JL | C 7 8 | | | | CEA471M10L2 |
| R 23 24 27 28 | | RD1/4PS821JL | C 9 10 15 16 17 18 | | | | CEA010M50L2 |
| R 25 26 29 30 | | RD1/4PS104JL | C 11 12 | | | | CCCH1034 |
| R 33 34 47 48 | | RD1/4PS153JL | C 13 14 | | | | CCCCH101J50 |
| R 35 36 | | RD1/4PS153JL | C 19 20 | | | | CEKA100M16 |
| R 39 40 | | RD1/4PS332JL | C 21 22 | | | | CEA221M6R3L2 |
| R 41 42 97 126 127 | | RD1/4PS222JL | C 25 26 | | | | CCCCH330J50 |
| R 43 44 45 46 | | RD1/4PS2R2JL | | | | | |
| R 49 50 51 52 | 0.22Ω/2W | CCN1013 | C 27 28 | | | | CQMA6R3K50 |
| R 53 54 55 56 | 61 62 | RS1/2P100JL | C 29 30 | | | | CQMA333K50 |
| R 57 58 111 121 | 133 146 147 | RD1/4PS102JL | C 31 32 74 75 | | | | CQMA102K50 |
| R 59 60 136 | | RD1/4PS393JL | C 33 36 64 65 | | | | CQMA223K50 |
| R 63 64 | | RD1/4PS564JL | C 34 79 | | | | CEA100M16L2 |
| R 65 66 | | RD1/4PS473JL | C 35 | | | | CEA4R7M25L2 |
| R 67 | (ES) | RD1/4PS223JL | C 37 | | | | CEA220M16L2 |
| R 68 | (ES) | RD1/4PS103JL | C 38 39 | | 2200 μF/35V | | CCCH1028 |
| R 69 70 | (ES) | RD1/4PS222JL | C 40 | | | | CEA471M10L2 |
| | | | C 41 | | | | CEA101M10L2 |
| R 73 | | RD1/4PS223JL | | | | | |
| R 75 | | RD1/4PS473JL | C 42 43 45 46 | | | | CEA101M10L2 |
| R 76 77 | | RD1/4PS222JL | C 47 50 | | 470 μF/16V | | CCCH-114 |
| R 78 139 142 | | RD1/4PS103JL | C 48 | | | | CEA221M10NP1L |
| R 79 | | RD1/4PM102J | C 49 | | 470 μF/16V(ES EW) | | CCCH-114 |
| | | | C 51 | | | | CEA2R2M50L2 |
| R 80 | | RD1/4PS222JL | | | | | |
| R 83 122 | | RD1/4PS221JL | C 52 | | | | CEA101M10L2 |
| R 84 | | RD1/4PS152JL | C 53 | | | | CEA101M16L2 |
| R 85 100 101 102 | 104 108 | RD1/4PS103JL | C 54 | | | | OKPYB102K50L |
| R 86 | | RD1/4PS472JL | C 56 57 | | | | CEAUH470M25 |
| | | | C 58 59 60 61 | | | | CEAUH101M10 |
| R 88 89 | | RD1/4PS102JL | | | | | |
| R 90 | | RD1/4PS123JL | C 62 63 | | 3300 μF/16V | | CCCH1023 |
| R 91 | | RD1/4PS331JL | C 66 67 | | 2200 μF/35V | | CCII1024 |
| R 92 | Posister | CCX-016 | C 68 69 | | | | CQMA104K50 |
| R 94 95 135 145 | 149 | RD1/4PS472JL | C 70 | | | | CDPA102J2A |
| | | | C 71 | | | | CEAUH101M16 |
| R 96 | | RD1/4PS104JL | | | | | |
| R 99 | (ES EW) | RD1/4PS152JL | C 72 | | | | CEAUH2R2M50 |
| R 105 106 | | RD1/4PS392JL | C 73 | | | | CEHAQ471M10 |
| R 107 | | RD1/4PS123JL | C 80 | | | | CEA100M16L2 |
| R 109 110 123 | 125 | RD1/4PS103JL | C 76 77 | | | | CEA471M35L2 |
| | | | C 78 | | | | CQMA103K50 |
| R 124 | | RD1/4PS473JL | | | | | |
| R 128 129 | | RD1/4PS332JL | C 81 82 | | | | CCCCH101J50 |
| R 130 | | RS1/2P561JL | C 83 | | | | CEA101M10L2 |
| R 131 | | RN1/4PC1004D | C 85 86 | | 22 μF/10V | | CCCH1035 |
| R 132 | | RN1/4PC1502D | C 87 | | (ES EW) | | CQMA103K50 |

Model Number : GM-1000/ES UC EW

Unit Number :

Unit Name : Main unit

MISCELLANEOUS

| Mark | Circuit Symbol & No. | | | Part Name | Part No. | Mark | Circuit Symbol & No. | | | Part Name | Part No. |
|------------------------|----------------------|--|--|---------------|---------------------------------|--|----------------------|--|--|-----------|----------|
| ** IC 1 | (ES) | | | TC4066BP | * D 30 | Serge Absorber | ER7-M10DK220 | | | | |
| ** IC 2 4 | | | | NJM2068S | * D 31 | | RM47-LFK5 | | | | |
| ** IC 5 | | | | NJM4558S | * D 32 | LED Assy | CXA2183 | | | | |
| ** IC 6 7 | | | | μ PC1298V | L 1 2 | Coil | CTH1028 | | | | |
| ** IC 8 | | | | μ PC494C | L 3 | Choke Coil(ES EW) | CTH1048 | | | | |
| ** Q 1 2 | (ES) | | | 2SC2458 | L 4 | Choke Coil | CTH1048 | | | | |
| | | | | (2SC1740S) | L 5 | Ferri-Inductor | CTF-157 | | | | |
| ** Q 9 10 | | | | 2SC2787 | L 6 7 8 | Coil 100 μ H | CTF-113 | | | | |
| ** Q 11 12 | | | | 2SC1568 | L 9 10 | Choke Coil | CTH1034 | | | | |
| ** Q 13 14 | | | | 2SD1271 | L 13 14 | | CCG-081 | | | | |
| ** Q 15 16 | | | | 2SB946 | L 15 | Choke Coil | CTH1033 | | | | |
| ** Q 17 18 | | | | 2SD1768S | ** SW 1 | Switch | CSG1023 | | | | |
| ** Q 23 26 32 33 | | | | 2SA1048 | ** SW 5 | Switch | HSH-156 | | | | |
| ** Q 20 24 27 28 29 34 | | | | (2SA933S) | ** VR 1 | Volume 2k Ω (C)X2, 3k Ω (A)X2 (ES UC) | CCS1095 | | | | |
| | | | | 2SC2458 | | | | | | | |
| ** Q 21 | | | | (2SC1740S) | ** VR 1 | Volume 2k Ω (C)X2 (EW) | CCS1103 | | | | |
| ** Q 22 | | | | 2SB1240 | ** VR 2 3 | Semi-fixed | VRTB6VS102 | | | | |
| ** Q 25 | | | | 2SD1862 | RY 1 | Relay | CSR1010 | | | | |
| ** Q 30 31 | | | | 2SC3113 | T 1 | Transformer | CTT1005 | | | | |
| | | | | 2SC3623A | ** FU 1 | Fuse 10A | CEK1136 | | | | |
| ** Q 35 | | | | 2SB1357 | ** FU 2 | Fuse 3A (ES EW) | CEK1134 | | | | |
| ** Q 36 | | | | 2SD2037 | ** FU 3 | Fuse 4A | CEK1001 | | | | |
| ** Q 37 38 | | | | 2SK817 | | | | | | | |
| ** Q 41 43 | | | | 2SC3422 | RESISTORS | | | | | | |
| ** Q 42 44 | | | | 2SA1359 | | | | | | | |
| Mark | Circuit Symbol & No. | | | Part Name | Part No. | | | | | | |
| * D 3 4 11 15 20 22 | | | | 1SS176 | | | | | | | |
| | | | | (US1040M) | R 1 2 | (ES UC) | | | | | |
| | | | | (1SS270) | R 3 4 | (ES UC) | | | | | |
| * D 5 13 34 | | | | ERA15-02VH | R 5 6 31 32 | | | | | | |
| * D 6 | | | | HZS6R8.JB1 | R 7 8 | | | | | | |
| | | | | (RDGR8.JB1) | R 9 10 37 38 98 | | | | | | |
| * D 7 | | | | HZS16JB1 | R 11 12 | | | | | | |
| * D 8 | | | | (RD16JSB1) | R 15 16 17 18 19 20 21 22 | | | | | | |
| | | | | HZS9R1.JB1 | R 23 24 | | | | | | |
| | | | | (RD9R1JSB1) | R 33 34 47 48 107 | | | | | | |
| | | | | HZS7R5.JB3 | R 35 36 | | | | | | |
| * D 9 10 | | | | (RD7R5JSB3) | | | | | | | |
| * D 12 | (ES EW) | | | ERA15-02VH | R 39 40 128 129 | | | | | | |
| * D 16 | (EW) | | | 1SS176 | R 41 42 97 126 127 | | | | | | |
| | | | | (US1040M) | R 43 44 45 46 | | | | | | |
| | | | | (1SS270) | R 49 50 51 52 0.22 Ω /2W | | | | | | |
| | | | | (US1040M) | R 57 58 111 121 133 146 147 | | | | | | |
| * D 16 17 33 | (ES) | | | 1SS176 | R 59 60 | | | | | | |
| | | | | (US1040M) | R 61 62 | | | | | | |
| | | | | (1SS270) | R 63 64 | | | | | | |
| * D 17 | (UC) | | | 1SS176 | R 65 66 | | | | | | |
| | | | | (US1040M) | R 67 | | | | | | |
| | | | | (1SS270) | | | | | | | |
| * D 19 | Thyristor | | | R03P2M | R 68 | (ES) | | | | | |
| | | | | | R 69 70 | (ES) | | | | | |
| | | | | HZ7B3L | R 80 | | | | | | |
| * D 21 | | | | HZS10.JB1 | R 83 122 | | | | | | |
| * D 23 24 | | | | (RD10JSB1) | R 84 | | | | | | |
| * D 25 26 27 28 | | | | 1SS81 | | | | | | | |
| * D 29 | | | | RBV-402L | | | | | | | |

| Mark | Circuit Symbol & No. | Part Name | Part No. | Mark | Circuit Symbol & No. | Part Name | Part No. |
|-------|----------------------|-----------|---------------|------|----------------------|------------------|-------------|
| R 85 | 100 101 102 104 108 | | RD1/4PS103.JL | C 62 | 63 | 1500 μ F/16V | CCH1021 |
| R 86 | | | RD1/4PS222.JL | C 66 | 67 | 2200 μ F/25V | CCH1022 |
| R 88 | 89 | | RD1/4PS472.JL | C 68 | 69 | | CQMA104K50 |
| R 90 | | | RD1/4PS123.JL | C 70 | | | CQPA102J2A |
| R 91 | 150 | | RD1/4PS331.JL | C 71 | | | CEAUH101M16 |
| R 92 | | Posister | CCX-016 | C 72 | | | CEAUH2R2M50 |
| R 93 | | | RD1/4PS822.JL | C 73 | | | CEHA0471M10 |
| R 94 | 95 135 137 145 149 | | RD1/4PS172.JL | C 76 | 77 | | CEA471M25L2 |
| R 96 | | | RD1/4PS104.JL | C 78 | | | CQMA103K50 |
| R 99 | (ES EW) | | RD1/4PS152.JL | C 80 | | (ES) | CEA100M16L2 |
| R 105 | 106 | | RD1/4PS392.JL | C 81 | 82 | | CCCCH101J50 |
| R 109 | 110 123 125 | | RD1/4PS103.JL | C 83 | | | CEA101M10L2 |
| R 124 | | | RD1/4PS473.JL | C 85 | 86 | 22 μ F/10V | CCH1035 |
| R 130 | | | RS1/2P561.JL | C 87 | | (ES EW) | CQMA103K50 |
| R 131 | | | RN1/4PC1004D | | | | |
| R 132 | | | RN1/4PC1502D | | | | |
| R 134 | | | RD1/4PS682.JL | | | | |
| R 136 | | | RD1/4PS393.JL | | | | |
| R 143 | 144 | | RS1/2P220.JL | | | | |
| R 150 | | | RD1/4PS100.JL | | | | |
| R 151 | | | RD1/4PS100.JL | | | | |
| R 152 | 153 | | RS1P152.JL | | | | |

CAPACITORS

| Mark | Circuit Symbol & No. | Part Name | Part No. |
|------|----------------------|------------------------|---------------|
| C 1 | 2 | (ES UC) | CEKA100M16 |
| C 3 | 4 | (ES EW) | CEKA100M16 |
| C 5 | 6 23 24 | | CKCYB471K50 |
| C 7 | 8 | | CEA471M10L2 |
| C 9 | 10 | | CEA010M50L2 |
| C 11 | 12 19 20 | | CEKA100M16 |
| C 13 | 14 | | CCCCH101J50 |
| C 21 | 22 | | CEA221MGR3L2 |
| C 25 | 26 | | CCCCH330J50 |
| C 27 | 28 | | CQMA683K50 |
| C 29 | 30 | | CQMA333K50 |
| C 31 | 32 | | CQMA102K50 |
| C 33 | 36 64 65 | | CQMA223K50 |
| C 34 | 79 | | CEA100M16L2 |
| C 38 | 39 | 2200 μ F/25V | CCH1027 |
| C 40 | 47 50 | 470 μ F/16V | CCH-114 |
| C 41 | 53 | | CEA101M16L2 |
| C 42 | 43 45 46 | | CEA101M10L2 |
| C 48 | | | CEA221M10NPLL |
| C 49 | | 470 μ F/16V(ES EW) | CCH-114 |
| C 51 | | | CEA2R2M50L2 |
| C 52 | | | CEA101M10L2 |
| C 54 | | | CKPYB102K50L |
| C 56 | 57 | | CEAUH470M25 |
| C 58 | 59 60 61 | | CEAUH101M10 |

20. PACKING METHOD

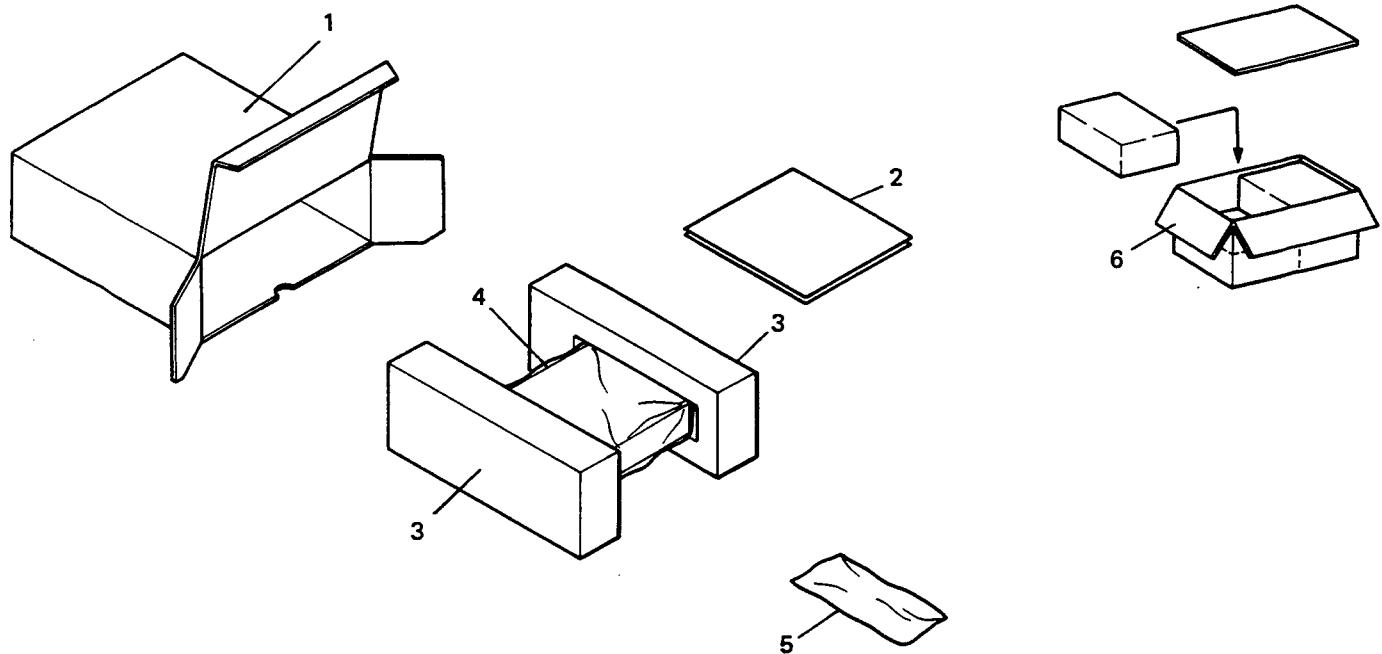


Fig. 33

● Parts List

| Mark No. | Part No. | Description | Mark No. | Part No. | Description |
|-----------|--|------------------------------------|----------|--------------|----------------------------|
| 1 | CHG1469 | Carton (GM-2000/ES) | 5-1 | CDE2106 | Cord (GM-2000/ES) |
| | CHG1467 | Carton (GM-2000/EW) | | CDE2105 | Cord (GM-2000/EW) |
| | CHG1468 | Carton (GM-2000/UC) | | CDE2107 | Cord (GM-2000/UC) |
| | CHG1466 | Carton (GM-1000/ES) | | CDE2110 | Cord (GM-1000/ES) |
| | CHG1464 | Carton (GM-1000/EW) | | CDE2109 | Cord (GM-1000/EW) |
| 2 | CHG1465 | Carton (GM-1000/UC) | | CDE2111 | Cord (GM-1000/UC) |
| 2 CRD1203 | Owner's Manual (GM-2000/ES) | | 5-2 | CDE1997 | Cord Assy (GM-2000) |
| CRD1200 | Owner's Manual (GM-1000/ES) | (English, French, Spanish, Arabic) | | CDE1840 | Cord Assy (GM-1000) |
| CRD1201 | Owner's Manual (GM-2000/EW) | | 5-2-1 | | Cord (GM-2000) |
| | | | 5-2-2 | | Cord (GM-2000) |
| CRD1198 | Owner's Manual (GM-1000/EW) | | 5-3 | CDE2018 | Cord (GM-2000) |
| | (English, French, German, Spanish, Swedish, Norwegian, Dutch, Italian) | | | CDE1836 | Cord (GM-1000) |
| CRD1202 | Owner's Manual (GM-2000/UC) | | 5-4 | CDE1846 | DIN Connector (GM-2000/EW) |
| CRD1199 | Owner's Manual (GM-1000/UC) | | | CDE1847 | DIN Connector (GM-1000/EW) |
| | | | 5-5 | | Screw Kit |
| 3 | CHP1138 | (English, French) | 5-5-1 | BMZ50P060FZK | Screw (x4) |
| | CHP1137 | Styrofoam (GM-2000) | 5-5-2 | BTZ50P160FZK | Screw (x8) |
| 4 CEG1042 | Styrofoam (GM-1000) | | 5-6 | CEA1345 | Cover Assy (GM-2000) |
| 5 CEA1336 | Polyethylene Bag | | 5-6-1 | | Cover (GM-2000) |
| | Accessory Assy (GM-2000ES) | | 5-6-2 | | Cover (GM-2000) |
| CEA1338 | Accessory Assy (GM-2000EW) | | 5-7 | CNC2099 | Bracket (x2) |
| CEA1339 | Accessory Assy (GM-2000UC) | | 6 | CHL1468 | Contain Box (GM-2000/UC) |
| CEA1340 | Accessory Assy (GM-1000ES) | | | CHL1465 | Contain Box (GM-1000/UC) |
| CEA1342 | Accessory Assy (GM-1000EW) | | | | |
| CEA1343 | Accessory Assy (GM-1000UC) | | | | |