



HITACHI

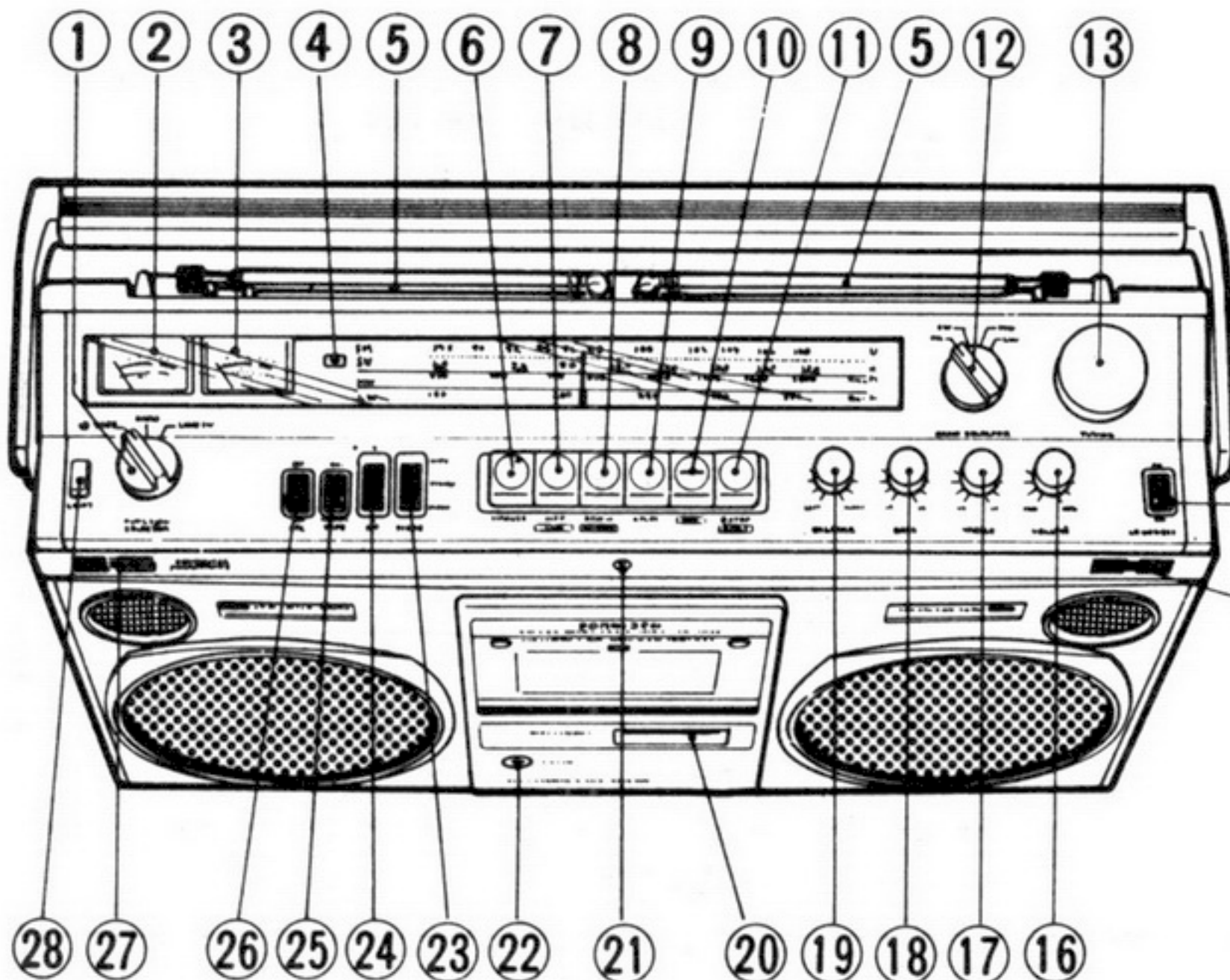
TRK-8080E, E(BS)

SERVICE MANUAL

English
Deutsch
Français

No. 1032

KEY TO ILLUSTRATIONS



- | | | | |
|-------------------------------|---|---|---|
| ① FUNCTION SELECTOR | ⑩ RECORD BUTTON | ⑩ | ⑩ RECORD BUTTON |
| ② LEVEL (L)/BATTERY METER | ⑪ STOP/EJECT BUTTON | ⑪ | ⑪ STOP/EJECT BUTTON |
| ③ LEVEL (R)/TUNING METER | ⑫ BAND SELECTOR | ⑫ | ⑫ BAND SELECTOR |
| ④ FM STEREO INDICATOR | ⑬ TUNING CONTROL | ⑬ | ⑬ TUNING CONTROL |
| ⑤ TELESCOPIC ANTENNA (AERIAL) | ⑭ LOUDNESS SWITCH | ⑭ | ⑭ LOUDNESS SWITCH |
| ⑥ PAUSE BUTTON | ⑮ BUILT-IN MICROPHONE (RIGHT) | ⑮ | ⑮ BUILT-IN MICROPHONE (RIGHT) |
| ⑦ FAST FORWARD/CUE BUTTON | ⑯ VOLUME CONTROL | ⑯ | ⑯ VOLUME CONTROL |
| ⑧ REWIND/REVIEW BUTTON | ⑰ TREBLE CONTROL | ⑰ | ⑰ TREBLE CONTROL |
| ⑨ PLAYBACK BUTTON | ⑱ BASS CONTROL | ⑱ | ⑱ BASS CONTROL |
| | ⑲ BALANCE CONTROL | ⑲ | ⑲ BALANCE CONTROL |
| | ⑳ TAPE COUNTER | ⑳ | ⑳ TAPE COUNTER |
| | ㉑ OPERATION INDICATOR | ㉑ | ㉑ OPERATION INDICATOR |
| | ㉒ HEADPHONE SOCKET | ㉒ | ㉒ HEADPHONE SOCKET |
| | ㉓ MODE SWITCH | ㉓ | ㉓ MODE SWITCH |
| | ㉔ RIF SWITCH | ㉔ | ㉔ RIF SWITCH |
| | ㉕ TAPE SELECTOR SWITCH (CrO ₂ -NORMAL) | ㉕ | ㉕ TAPE SELECTOR SWITCH (CrO ₂ -NORMAL) |
| | ㉖ AFC SWITCH | ㉖ | ㉖ AFC SWITCH |
| | ㉗ BUILT-IN MICROPHONE (LEFT) | ㉗ | ㉗ BUILT-IN MICROPHONE (LEFT) |
| | ㉘ DIAL LIGHT BUTTON | ㉘ | ㉘ DIAL LIGHT BUTTON |

SPECIFICATIONS

GENERAL SECTION

Semi-conductors : IC's : 7
Transistors : 11
Diodes : 21
Vari-cap : 1
Zener diode : 1
LED : 1

Power (Mains) Supply : 240V AC, 50 Hz For E (BS)
220V AC, 50 Hz For E
DC : 12V (IEC R20×8 or equivalent)

Power (Mains) Consumption : 16W

Dimensions : 27.2(H)×48.9(W)×13.1(D)cm

Weight : 6.7kg (with Batteries)

Output : 4W/CH

Speaker : 16cm 4 ohms×2, 5cm 8 ohms×2

TUNER SECTION

Circuit System : FM/SW/MW/LW 4-band superheterodyne

Tuning Range : FM : 87.5 to 108 MHz
SW : 6.0 to 18 MHz
MW : 530 to 1605 kHz
LW : 150 to 350 kHz

Sensitivity : FM : 12 dB (pra.) 0 dB (max.)
SW : 25 dB (pra.) 20 dB (max.)
MW : 48 dB (pra.) 36 dB (max.)
LW : 55 dB (pra.) 46 dB (max.)

Intermediate Frequency : FM : 10.7 MHz
AM : 465 kHz

Antennas (Aerials) : FM/SW : Telescopic antenna (aerial)
MW/LW : Built-in ferrite-core antenna (aerial)

TAPE RECORDER

Tape : Cassette tape

Tape Speed : 4.75cm/s

Recording System and Bias Frequency : AC bias, 57 kHz

Erasing System : AC erase

Track System : 4 track 2 channel

Frequency Response : CrO₂ : 50 Hz to 12 kHz
Normal : 50 Hz to 10 kHz

S/N (Signal to Noise Ratio) : 50 dB

Wow and Flutter : 0.1% WRMS

Cross Talk : 40 dB

Erase Ratio : 65 dB

Input Sensitivity and Impedance : Microphone : -55 dB, 500 ohms
DIN : 30mV, 50K ohms

Output Impedance : DIN : 0.7V, 10K ohms

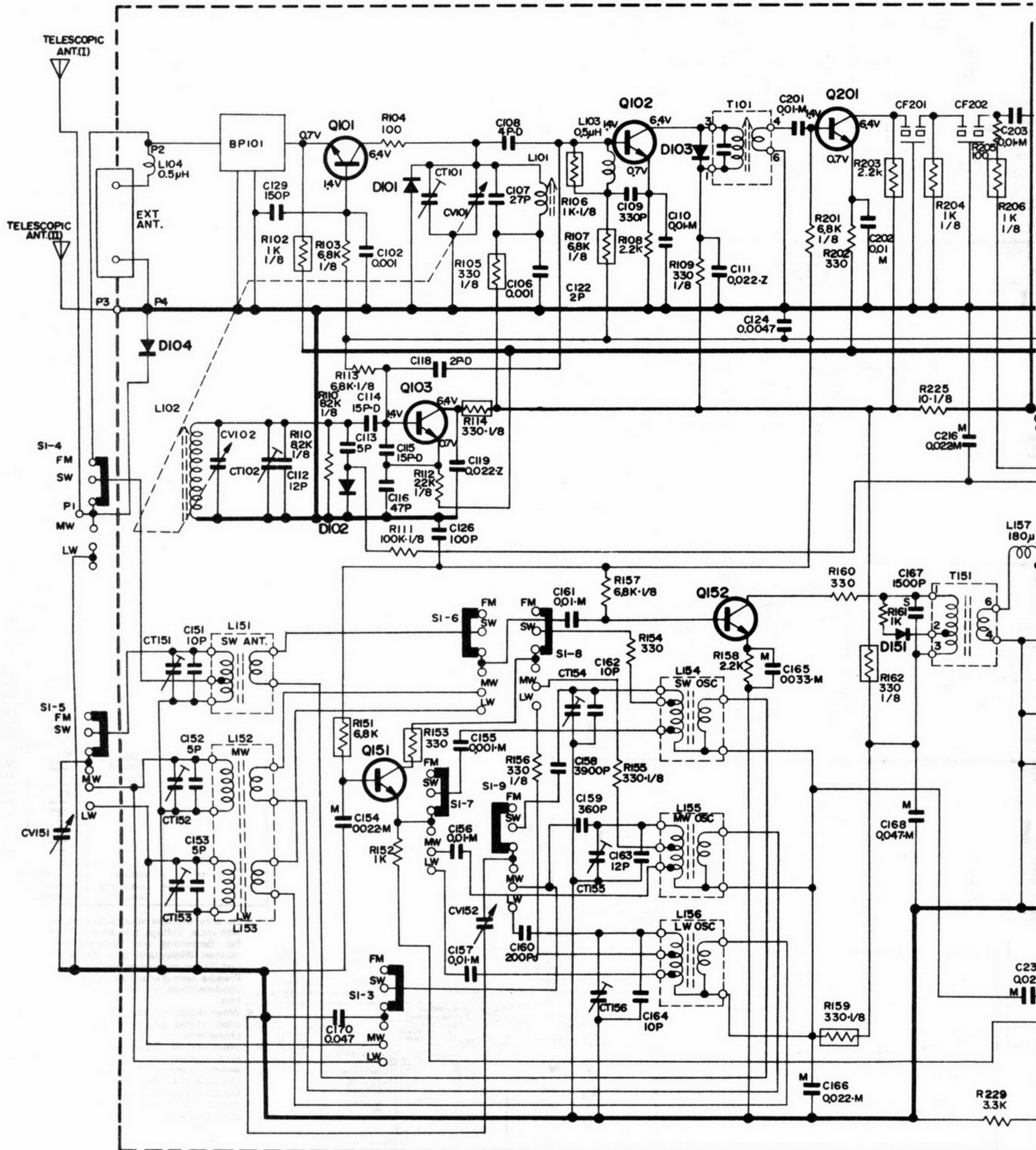
TAPE RECORDER WITH FM/SW/MW/LW RADIO

Jan. 1978

SCHMATIC DIAGRAM

Stromlaufplan

| | | | | | | | | |
|-----------|----------|------------|----------|----------|----------|----------|------------|----|
| D102 | D104 | Q101 | D101 | Q103 | Q102 | D103 | Q201 | |
| IS2790 | IS2473 | 2SC1674L | IS2473HC | 2SC1675L | 2SC1674L | IS2473HC | 2SC1675L | FM |
| FM A.F.C. | OVERLOAD | FM RF AMP. | LIMIT. | FM OSC. | FM COMV. | LIMIT. | FM IF AMP. | |



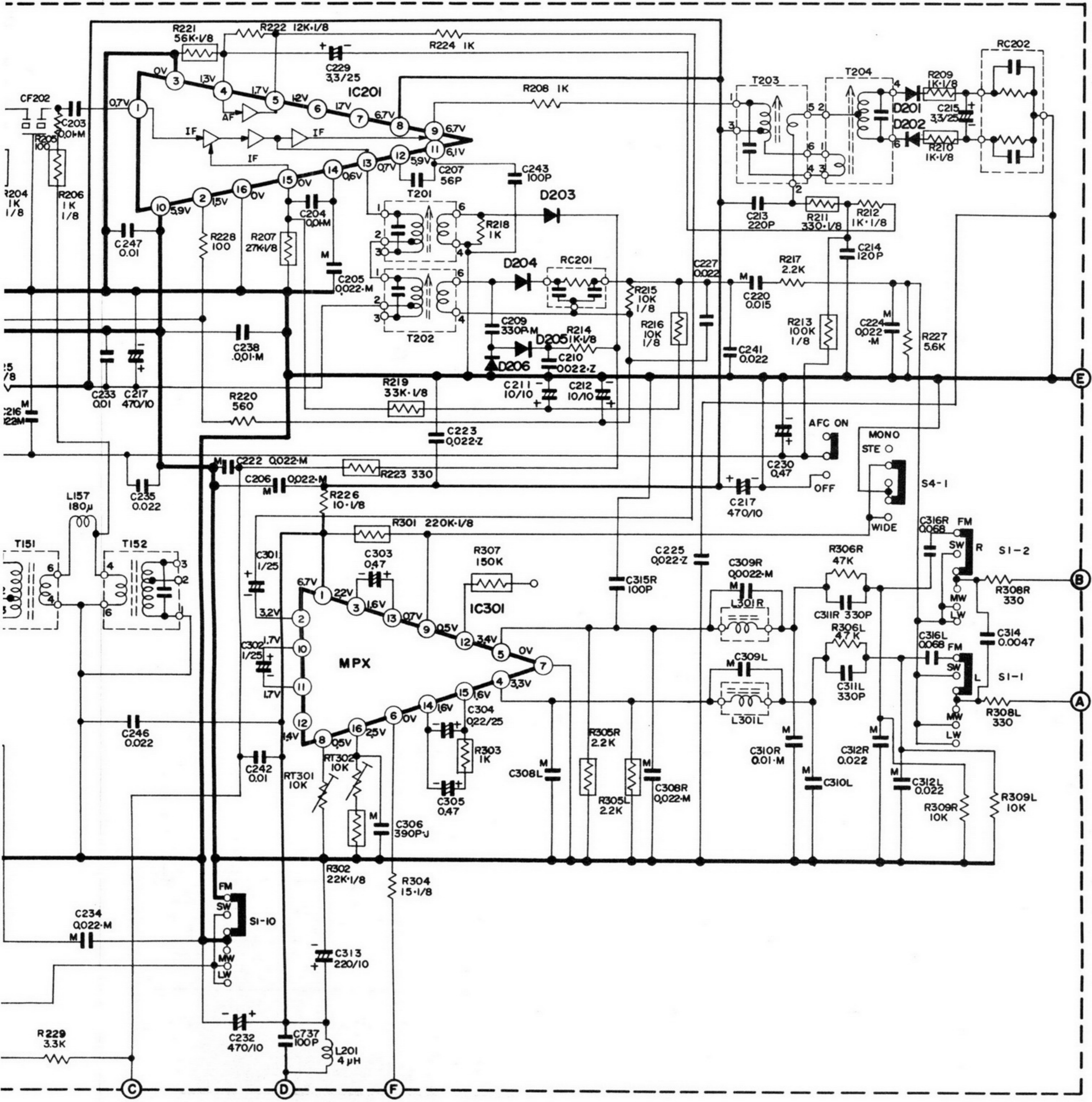
Q101
2SC1674
AM OSC.

Q152
2SC1675L
AM COMV.

D151
1N34A
AM OSC.

Schéma de montage

| | | | | | | | |
|------------|----------------------------------|--|-------------------------|--|--|------------------------------|-----------------------------|
| 75L MP. | IC201 AN-253 FM/AM IF AMP. | D203 IN60 FM TUNING METER DRIVE | D204 IN60 AM DET. | D205 IN60 FM TUNING METER DRIVE | D206 IN60 FM TUNING METER DRIVE | D201 IN 60P FM DISCRI. | D202 IN60P FM DISCRI. |
|------------|----------------------------------|--|-------------------------|--|--|------------------------------|-----------------------------|



IC301
AN-362
MPX.

SCHMATIC DIAGRAM

Stromlaufplan

Sch

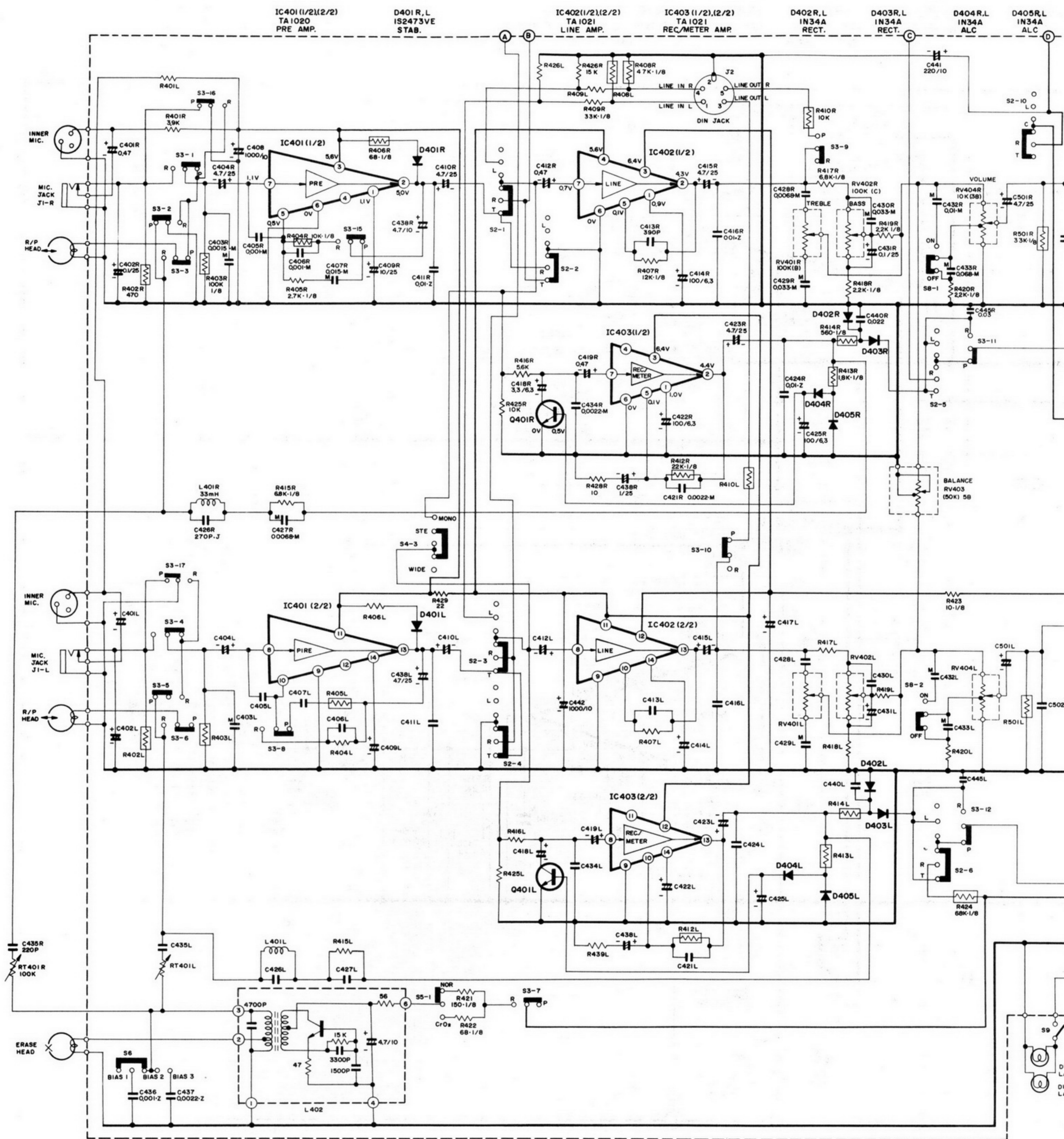
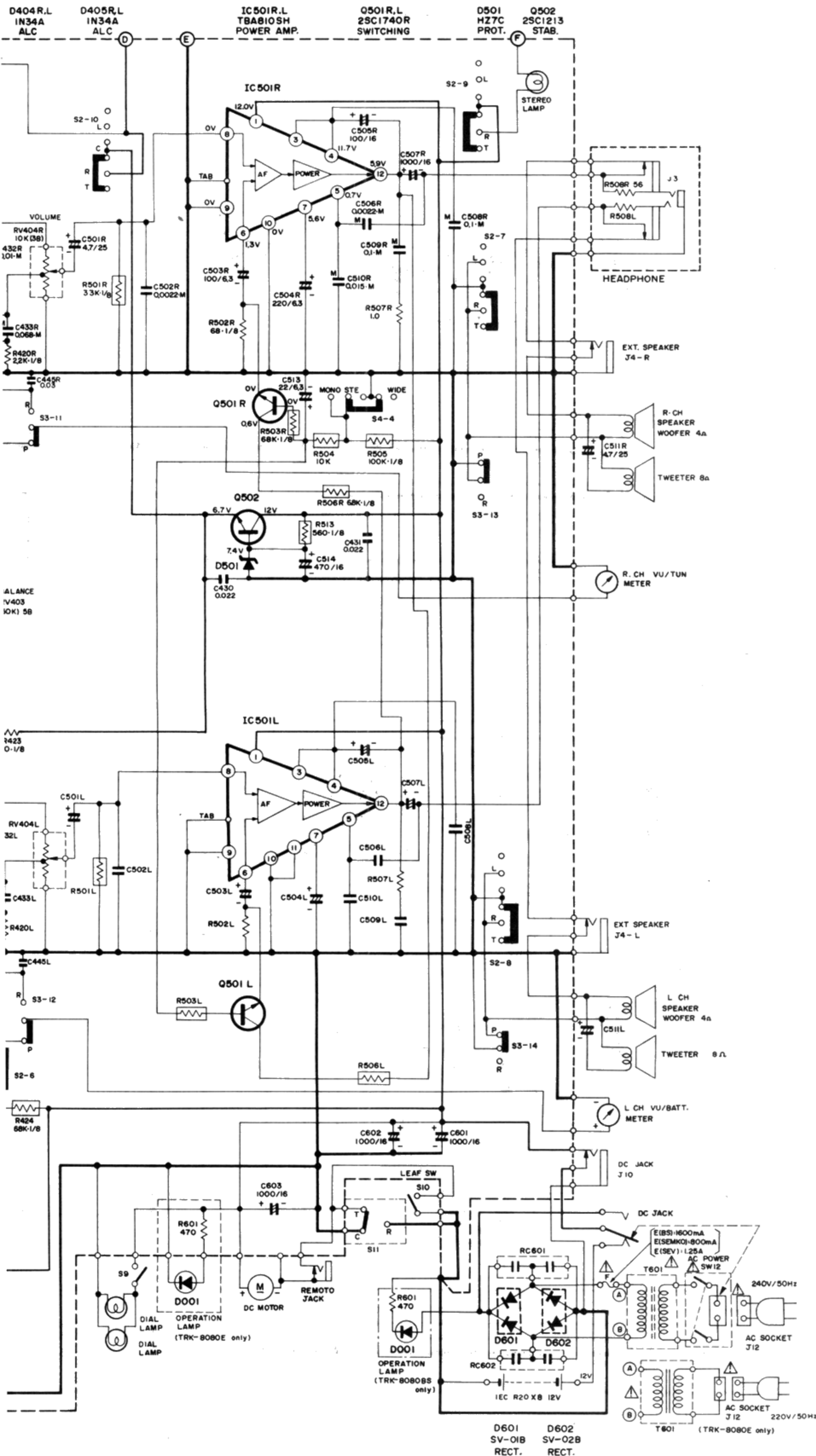


Schéma de montage



Note

1. Voltage measured at base of chassis with minimum volume control and no signal.
Die Spannung wird am Chassiseingang bei minimaler Lautstärke und ohne Angangssignal gemessen.
Tension mesurée à la base du châssis avec un réglage minimum de la commande de volume et absence de signal.
2. Nomenclature of Resistors and Capacitors.
Nomenclature de résistances et de condensateurs.

| | |
|--|--|
| Circuit No. Schaltkreis-Nr No de circuit | |
| Value Widerstand Valeur | No indicated Keine Bezeichnung No indiqué M : 1000 kΩ |
| Tolerance Toleranz Tolérance | No indicated Keine Bezeichnung No indiqué K : ±10% M : ±20% |
| Wattage Watt Puissance | No indicated Keine Bezeichnung No indiqué ¼W |
| Sort Bauart Type | No indicated Carbon film Keine Bezeichnung Kohlefilm No indique Film de carbon RC : Composition Komposition Composition RW : Wire wound Draht Bobinées film RS : Oxide metal film Metalloxid Oxyde métallique RN : Fixed metal film Metallfest Métallique fixe |

| | | | | | | | | | | | |
|--|---|--|-----------------------------------|--|--|--|-------------------------|--|-------------------------------------|--|----------------------------|
| Circuit No. Schaltkreis-Nr No de circuit | | | | | | | | | | | |
| Value Widerstand Valeur | No indicated Keine Bezeichnung No indiqué P : PF | | | | | | | | | | |
| Tolerance Toleranz Tolérance | No indicated Keine Bezeichnung No indiqué J : ± 5% M : ±20% Z : +80%, -20% D : ±0.5pF C : ±0.25pF | | | | | | | | | | |
| Sort Bauart Type | <table border="1"> <tr> <td></td> <td>Ceramic Keramisch Céramique</td> </tr> <tr> <td></td> <td>Electrolytic Elektrolytisch Electrolytique</td> </tr> <tr> <td></td> <td>Mylar Mylar Mylar</td> </tr> <tr> <td></td> <td>Polyester Polyester Polyester</td> </tr> <tr> <td></td> <td>Styrol Styrol Styrol</td> </tr> </table> | | Ceramic Keramisch Céramique | | Electrolytic Elektrolytisch Electrolytique | | Mylar Mylar Mylar | | Polyester Polyester Polyester | | Styrol Styrol Styrol |
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| | Electrolytic Elektrolytisch Electrolytique | | | | | | | | | | |
| | Mylar Mylar Mylar | | | | | | | | | | |
| | Polyester Polyester Polyester | | | | | | | | | | |
| | Styrol Styrol Styrol | | | | | | | | | | |
| Voltage Spannung Tension | No indicated Keine Bezeichnung No indiqué 50WV | | | | | | | | | | |

3. Be sure to make your orders of resistors and capacitors with value, voltage, tolerance and sort.
Bei Bestellung von Widerständen und Kondensatoren müssen Widerstand bzw. Kapazität, Spannung, Toleranz und Bauart angegeben werden.
Prendre soin d'effectuer vos commandes le résistances et condensateurs en précisant valeur, tension, tolérance et type.
4. When replacing capacitors marked with ✱, use specified ones stated on parts list since required temperature characteristics.
Wenn mit ✱ bezeichnete Kondensatoren auszuwechseln sind müssen die vorgeschriebenen Kondensatoren verwendet werden, da diese unterschiedliche Temperaturcharakteristik haben.
Lorsque les condensateurs portant le repère ✱, utiliser ceux qui sont précisés dans la liste de pièces détachées étant donné leurs caractéristiques de température.