

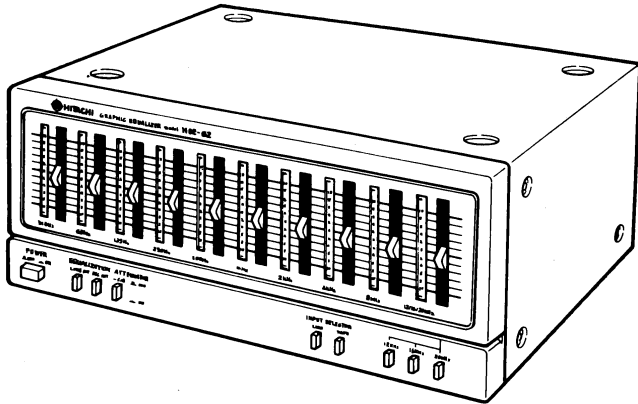


HITACHI SERVICE MANUAL

TY

No. 315 EGF

HGE-G2



CONTENTS

| | |
|-----------------------------------|---|
| SPECIFICATIONS | 1 |
| FEATURES | 3 |
| DISASSEMBLY AND REPLACEMENT | 3 |
| BLOCK DIAGRAM | 4 |
| PRINTED WIRING BOARD | 5 |
| CIRCUIT DIAGRAM | 6 |
| REPLACEMENT PARTS LIST | 7 |
| FRONT AND REAR PANEL | 9 |

CAUTION FOR U.S.A.

Make leakage-current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.

SAFETY PRECAUTION

The following precautions should be observed when servicing.

1. Since many parts in the unit have special safety related characteristics, always use genuine Hitachi's replacement parts. Especially critical parts in the power circuit block should not be replaced with other makers. Critical parts are marked with Δ in the schematic diagram and circuit board diagram.
2. Before returning a repaired unit to the customer, the service technician must thoroughly test the unit to ascertain that it is completely safe to operate without danger of electrical shock.

SPECIFICATIONS

| | |
|--|------------------------------|
| Circuit system: | Active band-pass filter |
| Rated input (impedance) | |
| Line input: | 150 mV (47 kohms) |
| Tape playback: | 150 mV (47 kohms) |
| Rated output (impedance) | |
| Line output: | 150 mV (1 kohm or less) |
| Recording output: | 150 mV (1 kohm or less) |
| Distortion (1V output): | 0.01%, 1 kHz |
| Maximum output level (0.1% distortion): | |
| Line output/recording output: | 5.5V |
| Gain: | 0 dB |
| Frequency response: | 20 Hz to 20 kHz \pm 0.5 dB |
| Signal-to-noise ratio (IHF A network): | 86 dB |

| | |
|---|--|
| Variable range of adjustment: | \pm 10 dB |
| Equalization center frequencies: | 31.5 Hz, 63 Hz, 125 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz, 12 kHz/16 kHz/20 kHz |
| Power requirements: | AC 120V 60 Hz ~ 220V - 240V ~ 100 - 120V/200 - 240V 50/60 Hz |
| Power consumption: | 8W |
| Dimensions: | 320 (W) x 137 (H) x 262 (D) mm (incl. knobs and other projections) |
| Weight: | 3.3 kg |
| Accessories: | US pin cord..... 2 |

* All specifications for this unit apply with a flat equalization.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

GRAPHIC EQUALIZER

March 1982 TOYOKAWA WORKS

SICHERHEITSMASSNAHMEN

Bei Wartungsarbeiten sind die folgenden Sicherheitsmaßnahmen zu beachten:

1. Da verschiedene Teile dieses Gerätes Sicherheitsfunktionen aufweisen, nur Original-Hitachi-ersatzteile verwenden. Kritische Teile im Netzteil sollten nicht durch ähnliche Teile anderer Hersteller ersetzt werden. Alle kritischen Teile sind im Schaltplan und im Diagramm der Schaltplatinen mit dem Symbol Δ gekennzeichnet.
2. Vor der Auslieferung eines reparierten Gerätes an den Kunden muß der Wartungstechniker das Gerät einer gründlichen Prüfung unterziehen, um sicherzustellen, daß sicherer Betrieb ohne die Gefahr von elektrischen Schlägen gewährleistet ist.

TECHNISCHE DATEN

| | |
|---|---------------------------------|
| Schaltssystem: | Aktiver Bandpaßfilter |
| Nenningang (Impedanz): | |
| Line-Eingang: | 150 mV (47 Kiloohm) |
| Bandwiedergabe: | 150 mV (47 Kiloohm) |
| Nennausgang (Impedanz) | |
| Line-Ausgang: | 150 mV (1 Kiloohm oder weniger) |
| Aufnahmeausgang: | 150 mV (1 Kiloohm oder weniger) |
| Verzerrung (1V Ausgang): | 0,01%, 1 kHz |
| Max. Ausgangspegel (Gesamtklirrfaktor 0,1%): | |
| Line-Ausgang/- | |
| Aufnahmeausgang: | 5,5V |
| Verstärkung: | 0 dB |
| Frequenzgang: | 20 Hz bis 20 kHz $\pm 0,5$ dB |
| Geräuschspannungsabstand (IHF-A-Netzwerk): | 86 dB |

* Änderungen der Konstruktion und technischen Daten bleiben im Sinne der ständigen Verbesserung vorbehalten.

| | |
|---------------------------|--|
| Regelbereich: | ± 10 dB |
| Entzerrungs- | |
| Mittenfrequenz: | 31,5 Hz, 63 Hz, 125 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz, 12 kHz/16 kHz/20 kHz |
| Stromversorgung: | $\sim 120V$ 60 Hz $\sim 220 - 240V$ $\sim 100 - 120V/200 - 240V$ |
| Leistungsaufnahme: | 8 Watt |
| Abmessungen: | 320 (B) x 137 (H) x 262 (T) mm (einschl. Regler und anderer Vorsprünge) |
| Gewicht: | 3,3 kg |
| Zubehör: | US Stiftkabel 2 |

* Bei allen technischen Daten dieses Gerätes handelt es sich um Werte bei linearer Entzerrung.

PRÉCAUTIONS DE SÉCURITÉ

Les précautions suivantes doivent être observées chaque fois qu'une réparation doit être faite.

1. Etant donné que de nombreux composants de l'appareil possèdent des caractéristiques relatives à la sécurité, utiliser uniquement des pièces de rechange d'origine Hitachi pour effectuer un remplacement. Ceci se rapporte notamment aux pièces critiques du bloc d'alimentation qui ne doivent en aucun cas être remplacées par celles d'autres fabricants. Les pièces critiques sont accompagnées du symbole Δ dans le schéma de montage et sur le schéma de plaque de câblage.
2. Avant de retourner l'appareil réparé au client, le technicien doit procéder à un essai complet pour s'assurer qu'il ne présente aucun danger de chocs électriques.

FICHE TECHNIQUE

| | |
|---|-----------------------------|
| Système de circuit: | Filtre passe-bande actif |
| Entrée (impédance) normale: | |
| Entrée de ligne: | 150 mV (47 kohms) |
| Lecture de bande: | 150 mV (47 kohms) |
| Sortie de puissance (impédance) nominale | |
| Sortie de ligne: | 150 mV (1 kohm au moins) |
| Sortie d'enregistrement: | 150 mV (1 kohm au moins) |
| Distorsion (sortie de 1V): | 0,01%, 1 kHz |
| Niveau de sortie maximal (distorsion de 0,1%): | |
| Sortie de ligne/sortie d'enregistrement: | 5,5V |
| Gain: | 0 dB |
| Réponse de fréquence: | 20 Hz à 20 kHz $\pm 0,5$ dB |
| Rapport signal/bruit (réseau A IHF): | 86 dB |

* Les spécifications et la conception sont sujettes à modifications sans préavis pour des raisons d'améliorations.

| | |
|--|--|
| Gamme de réglage variable: | ± 10 dB |
| Fréquences centrales d'égalisation: | 31,5 Hz, 63 Hz, 125 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz, 12 kHz/16 kHz/20 kHz |
| Alimentation: | $\sim 120V$ 60 Hz $\sim 220 - 240V$ $\sim 100 - 120V/200 - 240V$ |
| Consommation: | 8W |
| Dimensions: | 320 (L) x 137 (H) x 262 (P) mm (y compris les boutons et autres éléments saillants) |
| Poids: | 3,3 kg |
| Accessoire: | Cordon à broche US 2 |

* Toutes les spécifications de cet appareil sont données pour une égalisation plate.

FEATURES · MERKMALE · CARACTÉRISTIQUES

1. The audio frequency range is divided into 10 bands with a reference center frequency of 1 kHz at intervals of 1 octave.
2. Wide dynamic range semiconductor-inductors are employed in the oscillation circuits.

3. ICs are employed in the flat amplifiers.
4. An equalizer selector switch is provided for more convenient operation.
5. Built-in power ON/OFF muting circuit.

1. Der Frequenzbereich ist in 10 Bänder unterteilt, mit einer Bezugsmittelfrequenz von 1 kHz bei einem Intervall von 1 Oktave.
2. In der Oszillator-Schaltung wird ein Halbleiter mit einem breiten Dynamikbereich verwendet.

3. Für den linearen Verstärker wird eine IC verwendet.
4. Für eine mühelose Bedienung ist ein Entzerrungs-Wahl-schalter vorhanden.
5. Eingebaute EIN/AUS-Dämpfungsschaltung.

1. La gamme de fréquence audio est divisée en 10 plages avec une fréquence centrale de référence de 1 kHz à un intervalle de 1 octave.
2. Pour le circuit d'oscillation, on utilise un inducteur semi-conducteur à gamme dynamique étendue.

3. L'amplificateur plat est pourvu d'un circuit intégré.
4. Le sélecteur d'égalisation facilite l'utilisation.
5. Circuit d'atténuation du bruit lors de la mise sous/hors tension incorporé.

DISASSEMBLY AND REPLACEMENT · ZERLEGUNG UND AUSTAUSCHE · DEMONTAGE ET REMONTAGE

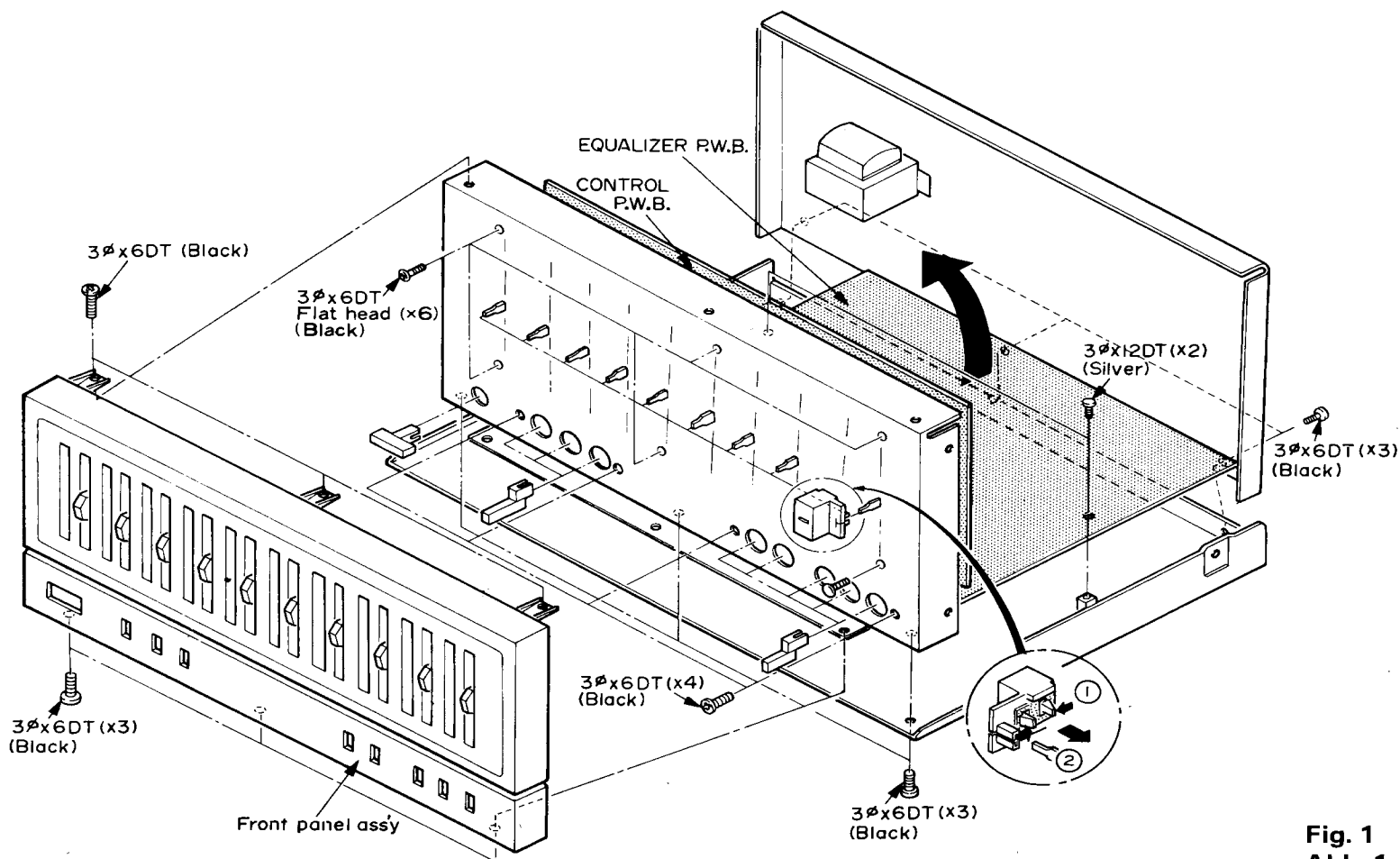
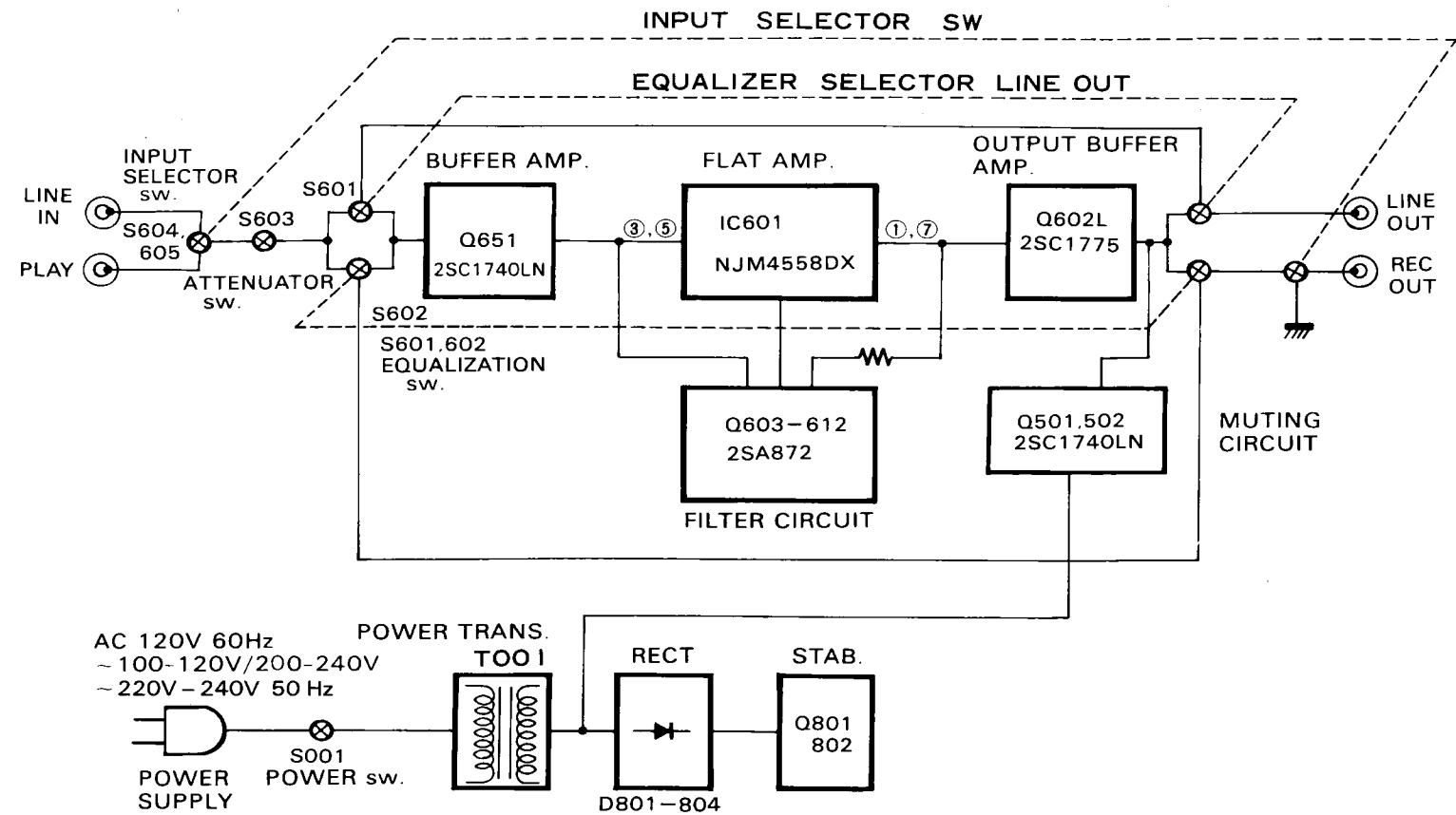


Fig. 1
Abb. 1




BLOCK DIAGRAM · BLOCKSCHEMA · SCHEMA

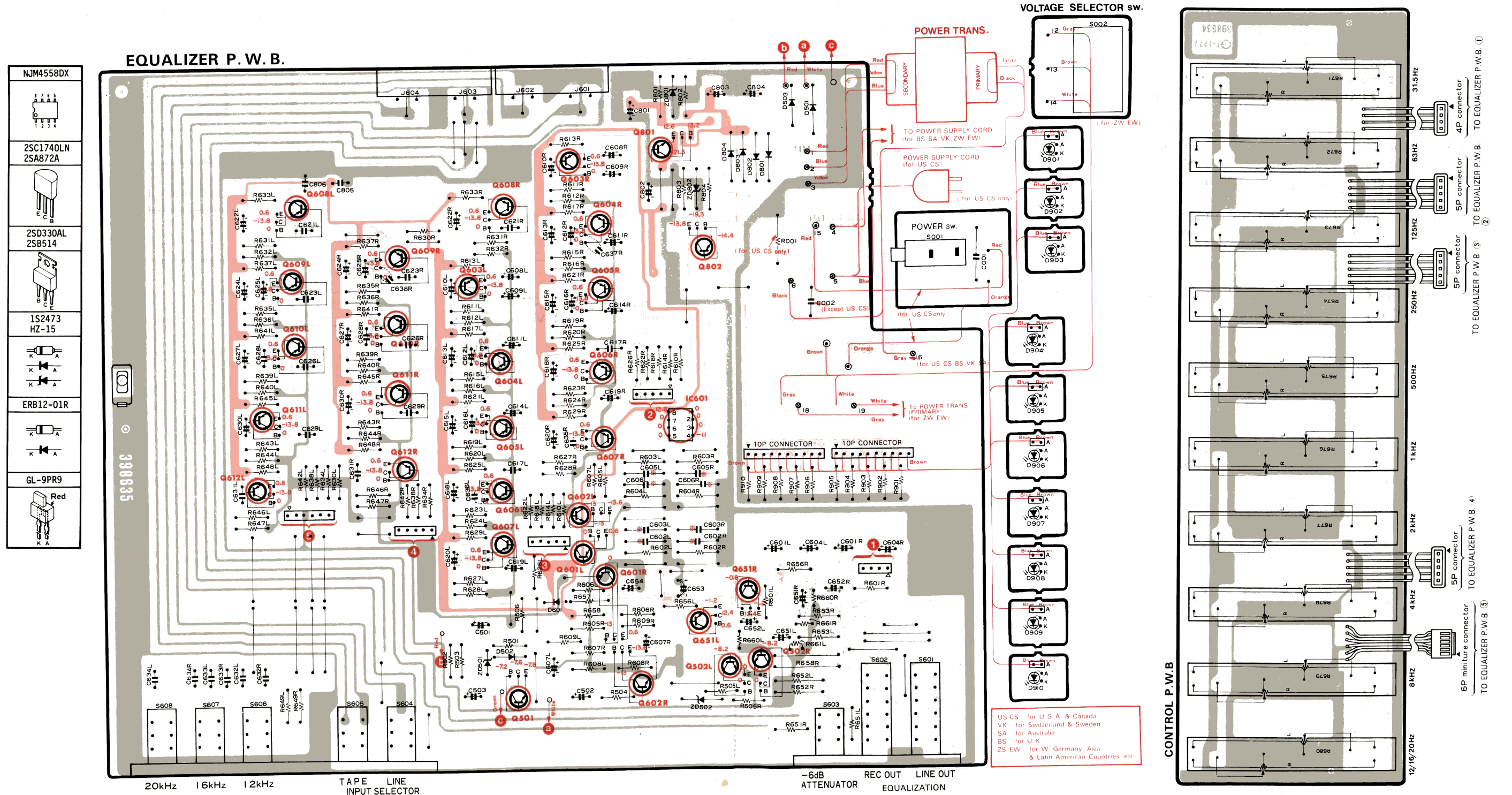


PRINTED WIRING BOARD · PRINTPLATTEN · PLAN DE BASE

[: + B, : - B, : Earth, : Other]

- * : Axial lead cylindrical ceramic capacitor
- * : Zylindrischer Keramikcondensator mit axialer zuleitung
- * : Condensateur céramique cylindrique à conducteur axial

The circuit symbol () means a fuse resistor. When replacing it with new one, refer to the CAUTION on page 6.
 Das Schaltsymbol () steht für Schmelzwiderstand. Beim Austausch bitte seite 6 ZUR BEACHTUNG nachlesen.
 Le symbole de circuit () signifie qu'il s'agit d'une résistance à fusible. Consulter l'alinéa "ATTENTION" de la page 6 pour effectuer son remplacement.



CIRCUIT DIAGRAM · SCHALTPLAN · PLAN DE CIRCUIT

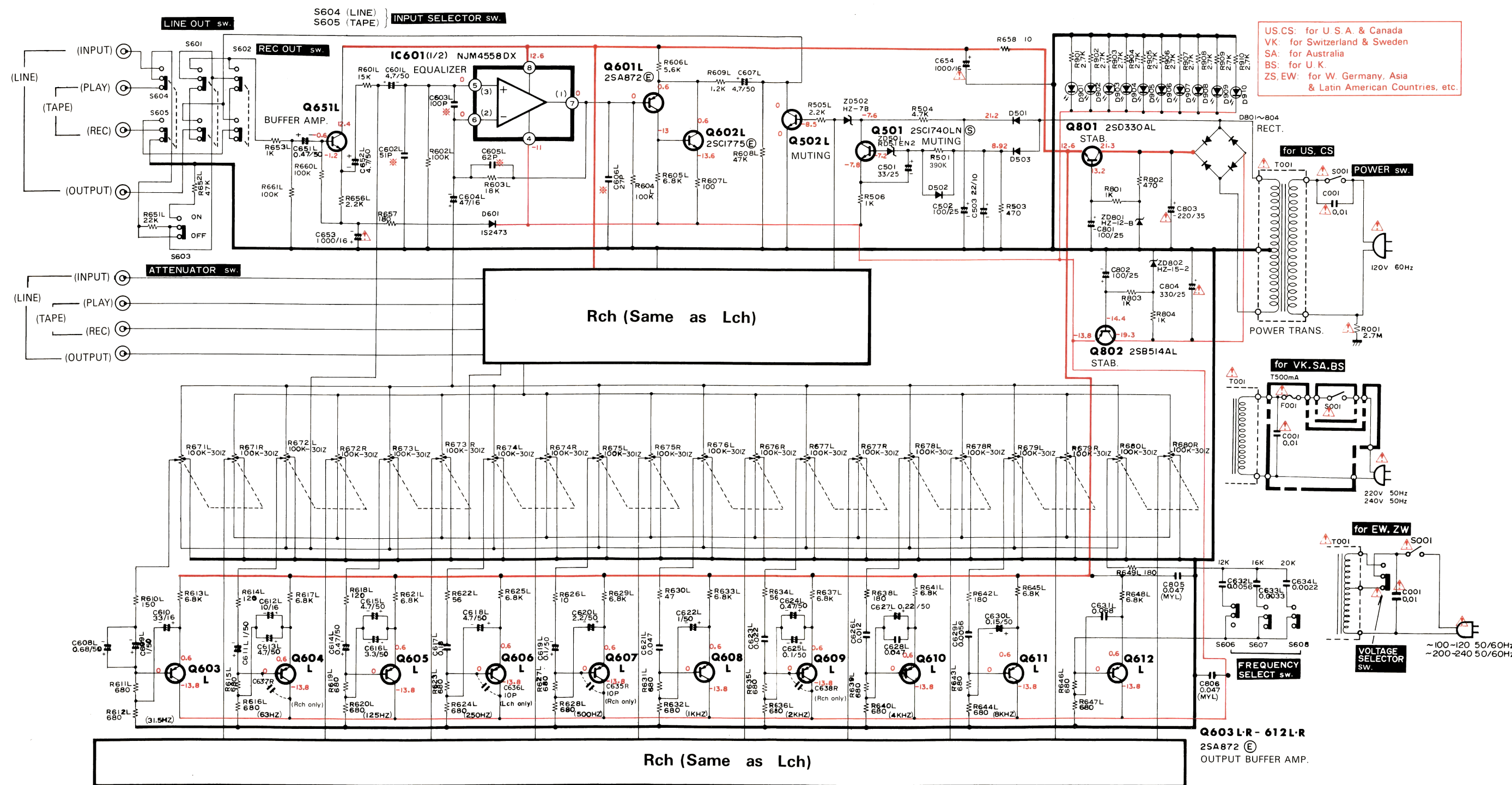
CAUTION: Fuse resistors are used to improve safety (to protect the circuit). When replacing them with new ones, be sure to use the designated type. Always use the designated fuse without fail.

ZUR BEACHTUNG: Schmelzwiderstände sind zur Erhöhung der Sicherheit vorgesehen (zum Schutz der Schaltung). Bei Austausch bitte nur die vorgeschriebene Type benutzen. Vergewissern Sie sich, daß die richtige Type gewählt ist.

ATTENTION: Les résistance à fusible sont faites pour améliorer la sécurité de l'appareil (protection de circuit). Pour les remplacer, utiliser le même type. Utiliser toujours le modèle de fusible spécifié pour effectuer le remplacement.

- *: Axial lead cylindrical ceramic capacitor
- *: Zylindrischer Keramikcondensator mit axialer zuleitung
- *: Condensateur céramique cylindrique à conducteur axial

CAUTION
Use the electrolytic capacitors with explosion-proof valve when the diameter of them is more than 10 mmφ.



REPLACEMENT PARTS LIST · ERSATZTEILLISTE · TABLEAU DES PIECES

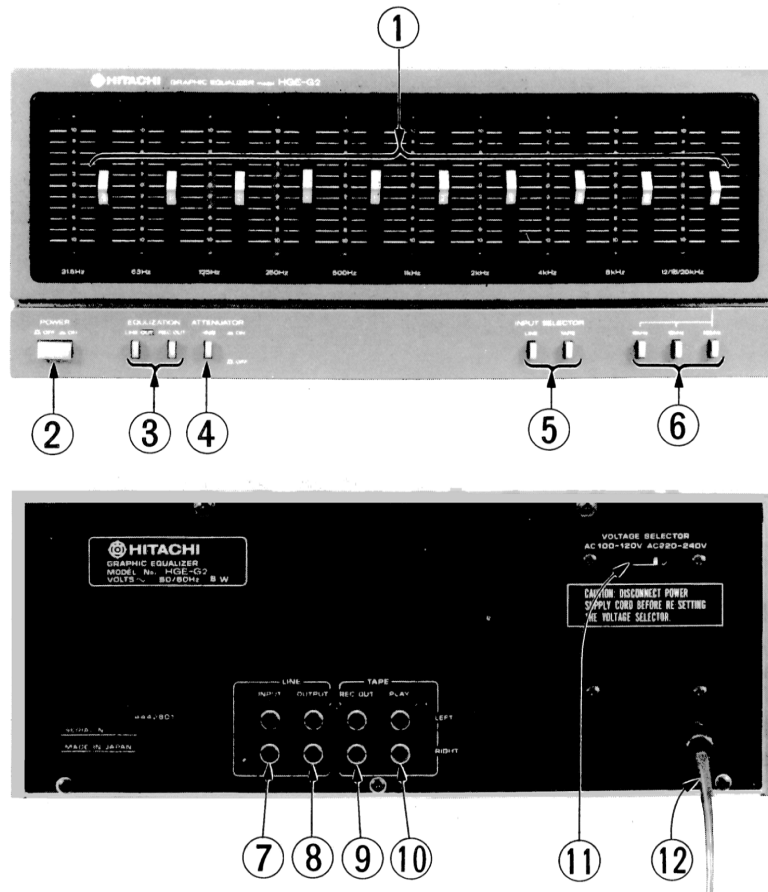
| SYMBOL NO. | PART NO. | DESCRIPTION | | | |
|-------------------|----------|---------------------|------------------------|-----------------------|------------------------|
| CAPACITORS | | | | | |
| C501 | 0252623 | Electrolytic | 33 μ F | 25V | |
| C502 | 0252631 | } | 100 μ F | 25V | |
| C503 | 0252322 | | Electrolytic | 22 μ F | 10V |
| C601LR | 0252815 | Electrolytic | 4.7 μ F | 50V | |
| C602LR | 0230029 | Cylindrical ceramic | 51pF \pm 5% | 50V | |
| C603LR | 0230036 | Cylindrical ceramic | 100pF \pm 5% | 50V | |
| C604LR | 0252525 | Electrolytic | 47 μ F | 16V | |
| C605LR | 0230031 | Cylindrical ceramic | 62pF \pm 5% | 50V | |
| C606LR | 0230022 | Cylindrical ceramic | 27pF \pm 5% | 50V | |
| C607LR | 0252815 | Electrolytic | 4.7 μ F | 50V | |
| C608LR | 0252807 | } | 0.68 μ F | 50V | |
| C609LR | 0252811 | | 1 μ F | 50V | |
| C610LR | 0252523 | | 33 μ F | 16V | |
| C611LR | 0252811 | | 1 μ F | 50V | |
| C612LR | 0252521 | | 10 μ F | 16V | |
| C613LR | 0252815 | | 4.7 μ F | 50V | |
| C614LR | 0252805 | | 0.47 μ F | 50V | |
| C615LR | 0252815 | | 4.7 μ F | 50V | |
| C616LR | 0252813 | | Electrolytic | 3.3 μ F | 50V |
| C617LR | 1276232 | | Mylar, film | 0.18 μ F \pm 5% | 50V |
| C618LR | 0252815 | Electrolytic | 4.7 μ F | 50V | |
| C619LR | 0252801 | } | 0.1 μ F | 50V | |
| C620LR | 0252812 | | Electrolytic | 2.2 μ F | 50V |
| C621LR | 0275215 | Mylar, film | 0.047 μ F \pm 5% | 50V | |
| C622LR | 0252811 | Electrolytic | 1 μ F | 50V | |
| C623LR | 1275213 | Mylar, film | 0.022 μ F \pm 5% | 50V | |
| C624LR | 0252805 | Electrolytic | 0.47 μ F | 50V | |
| C625LR | 0252801 | Electrolytic | 0.1 μ F | 50V | |
| C626LR | 1275231 | Mylar, film | 0.012 μ F \pm 5% | 50V | |
| C627LR | 0252802 | Electrolytic | 0.22 μ F | 50V | |
| C628LR | 1275215 | Mylar, film | 0.047 μ F \pm 5% | 50V | |
| C629LR | 1274235 | Mylar, film | 5600pF \pm 5% | 50V | |
| C630LR | 0252804 | Electrolytic | 0.15 μ F | 50V | |
| C631LR | 1275216 | Mylar, film | 0.068 μ F \pm 5% | 50V | |
| C632LR | 1274235 | } | 5600pF \pm 5% | 50V | |
| C633LR | 1274214 | | 3300pF \pm 5% | 50V | |
| C634LR | 1274213 | Mylar, film | 2200pF \pm 5% | 50V | |
| C635R | 0248712 | Ceramic discal | 33pF \pm 0.5% | 50V | |
| C636L | 0248712 | } | 33pF \pm 0.5% | 50V | |
| C637R | 0248712 | | 33pF \pm 0.5% | 50V | |
| C638R | 0248712 | Ceramic discal | 33pF \pm 0.5% | 50V | |
| C651LR | 0252805 | Electrolytic | 0.47 μ F | 50V | |
| C652LR | 0252815 | Electrolytic | 4.7 μ F | 50V | |
| △ C653 | 0252541 | Electrolytic | 1000 μ F | 16V | |
| △ C654 | 0252541 | Electrolytic | 1000 μ F | 16V | |
| C801 | 0252631 | Electrolytic | 100 μ F | 25V | |
| C802 | 0252631 | } | 100 μ F | 25V | |
| △ C803 | 0252732 | | 220 μ F | 35V | |
| △ C804 | 0252633 | Electrolytic | 330 μ F | 25V | |
| C805 | 1275215 | Mylar, film | 0.047 μ F \pm 5% | 50V | |
| C806 | 1275215 | Mylar, film | 0.047 μ F \pm 5% | 50V | |
| RESISTORS | | | | | |
| R501 | 0129675 | Carbon film | 390k Ω \pm 5% | SRD1/4P | |
| R502 | 0129601 | } | 1k Ω \pm 5% | } | |
| R503 | 0129577 | | 470 Ω \pm 5% | | |
| R504 | 0129617 | | 4.7k Ω \pm 5% | | |
| R505LR | 0129609 | | Carbon film | | 2.2k Ω \pm 5% |

| SYMBOL NO. | PART NO. | DESCRIPTION | | | | |
|------------|----------|------------------------|------------------------|---------|------------------------|---------|
| R506 | 0129601 | Carbon film | 1k Ω \pm 5% | SRD1/4P | | |
| R601LR | 0129635 | } | 15k Ω \pm 5% | } | | |
| R602LR | 0129661 | | 100k Ω \pm 5% | | | |
| R603LR | 0129637 | | 18k Ω \pm 5% | | | |
| R604LR | 0129661 | | 100k Ω \pm 5% | | | |
| R605LR | 0129621 | | Carbon film | | 6.8k Ω \pm 5% | SRD1/4P |
| R606LR | 0129619 | | Carbon film | | 5.6k Ω \pm 5% | SRD1/4P |
| R607LR | 0129561 | | 100 Ω \pm 5% | | | |
| R608LR | 0129647 | | 47k Ω \pm 5% | | | |
| R609LR | 0129603 | | 1.2k Ω \pm 5% | | | |
| R610LR | 0129565 | | 150 Ω \pm 5% | | | |
| R611LR | 0129581 | 680 Ω \pm 5% | | | | |
| R612LR | 0129581 | 680 Ω \pm 5% | | | | |
| R613LR | 0129621 | 6.8k Ω \pm 5% | | | | |
| R614LR | 0129563 | 120 Ω \pm 5% | | | | |
| R615LR | 0129581 | 680 Ω \pm 5% | | | | |
| R616LR | 0129581 | 680 Ω \pm 5% | | | | |
| R617LR | 0129621 | 6.8k Ω \pm 5% | | | | |
| R618LR | 0129563 | 120 Ω \pm 5% | | | | |
| R619LR | 0129581 | 680 Ω \pm 5% | | | | |
| R620LR | 0129581 | 680 Ω \pm 5% | | | | |
| R621LR | 0129621 | 6.8k Ω \pm 5% | | | | |
| R622LR | 0129549 | 56 Ω \pm 5% | | | | |
| R623LR | 0129581 | 680 Ω \pm 5% | | | | |
| R624LR | 0129581 | 680 Ω \pm 5% | | | | |
| R625LR | 0129621 | 6.8k Ω \pm 5% | | | | |
| R626LR | 0129531 | 10 Ω \pm 5% | | | | |
| R627LR | 0129581 | 680 Ω \pm 5% | | | | |
| R628LR | 0129581 | 680 Ω \pm 5% | | | | |
| R629LR | 0129621 | 6.8k Ω \pm 5% | | | | |
| R630LR | 0129547 | 47 Ω \pm 5% | | | | |
| R631LR | 0129581 | 680 Ω \pm 5% | | | | |
| R632LR | 0129581 | 680 Ω \pm 5% | | | | |
| R633LR | 0129621 | 6.8k Ω \pm 5% | | | | |
| R634LR | 0129549 | 56 Ω \pm 5% | | | | |
| R635LR | 0129581 | 680 Ω \pm 5% | | | | |
| R636LR | 0129581 | 680 Ω \pm 5% | | | | |
| R637LR | 0129621 | 6.8k Ω \pm 5% | | | | |
| R638LR | 0129567 | 180 Ω \pm 5% | | | | |
| R639LR | 0129581 | 680 Ω \pm 5% | | | | |
| R640LR | 0129581 | 680 Ω \pm 5% | | | | |
| R641LR | 0129621 | 6.8k Ω \pm 5% | | | | |
| R642LR | 0129567 | 180 Ω \pm 5% | | | | |
| R643LR | 0129581 | 680 Ω \pm 5% | | | | |
| R644LR | 0129581 | 680 Ω \pm 5% | | | | |
| R645LR | 0129621 | 6.8k Ω \pm 5% | | | | |
| R646LR | 0129581 | 680 Ω \pm 5% | | | | |
| R647LR | 0129581 | 680 Ω \pm 5% | | | | |
| R648LR | 0129621 | 6.8k Ω \pm 5% | | | | |
| R649LR | 0129567 | 180 Ω \pm 5% | | | | |
| R651LR | 0129639 | 22k Ω \pm 5% | | | | |
| R652LR | 0129647 | 47k Ω \pm 5% | | | | |
| R653LR | 0129601 | Carbon film | 1k Ω \pm 5% | SRD1/4P | | |
| R656LR | 0129609 | Carbon film | 2.2k Ω \pm 5% | SRD1/4P | | |
| R657 | 0129567 | } | 180 Ω \pm 5% | } | | |
| R658 | 0129531 | | Carbon film | | 10 Ω \pm 5% | SRD1/4P |
| R660LR | 0129918 | Carbon film | 100k Ω \pm 5% | SRD1/4P | | |
| R661LR | 0129918 | Carbon film | 100k Ω \pm 5% | SRD1/4P | | |
| R801 | 0129601 | Carbon film | 1k Ω \pm 5% | SRD1/4P | | |
| R802 | 0129577 | Carbon film | 470 Ω \pm 5% | SRD1/4P | | |

| SYMBOL NO. | PART NO. | DESCRIPTION | | | |
|------------------------------|----------|---|------------------------|-------------------------|---------|
| R803 | 0129601 | } | Carbon film | 1k Ω \pm 5% | SRD1/4P |
| R804 | 0129601 | | 1k Ω \pm 5% | | |
| R901 | 0129611 | | 2.7k Ω \pm 5% | | |
| R910 | 0129611 | } | Carbon film | 2.7k Ω \pm 5% | SRD1/4P |
| R001 | 0139005 | | Composition | 2.7M Ω \pm 10% | RC1/2GF |
| ICs & TRANSISTORS | | | | | |
| IC601 | 2368041 | NJM4558 DX | | | |
| Q501 | 2328652 | 2SC1740 LN Ⓢ | | | |
| Q502LR | 2317712 | 2SC2878 Ⓢ | | | |
| Q601LR | 2327903 | 2SA872A Ⓢ | | | |
| Q602LR | 2327913 | 2SC1775 Ⓢ | | | |
| Q603LR | 2327903 | 2SA872A Ⓢ | | | |
| Q612LR | 2327903 | 2SA872A Ⓢ | | | |
| Q651LR | 2328653 | 2SC1740 LN Ⓢ | | | |
| Q801 | 2328973 | 2SD330 AL Ⓢ | | | |
| Q802 | 2328963 | 2SB514 AL Ⓢ | | | |
| DIODES | | | | | |
| D501 | 2337761 | ERB12-01R | | | |
| D502 | 2337922 | 1N34A | | | |
| D503 | 2337601 | 1S2473 | | | |
| D601 | 2337601 | 1S2473 | | | |
| D801 | 2337761 | ERB12-01R | | | |
| D804 | 2337761 | ERB12-01R | | | |
| D901 | 2338141 | LED-GL9PR9 | | | |
| D910 | 2338141 | LED-GL9PR9 | | | |
| ZD501 | 2338597 | RD5.1EN2 | | | |
| ZD502 | 2327732 | HZ-7-B | | | |
| ZD801 | 2337102 | HZ-12-B | | | |
| ZD802 | 2337532 | HZ-15-2 | | | |
| VARIABLE RESISTORS | | | | | |
| R671LR | 0166521 | 100k Ω (Z) } (for freq. level adj.) | | | |
| R680LR | 0166521 | 100k Ω (Z) } | | | |
| MISCELLANEOUS | | | | | |
| △ S001 | 2639337 | Push switch (for EQUALIZATION, ATTENUATOR) | | | |
| △ S001 | 2639751 | Push switch (for INPUT SELECTOR, others) | | | |
| △ S001 | 2677611 | 4P US pin jack | | | |
| △ S001 | 2639512 | Power switch (for U.S.A. & Canada) | | | |
| △ S001 | 2639513 | Power switch (except U.S.A. & Canada) | | | |
| △ F001 | 2727602 | Fuse holder (for Australia, U.K., Sweden & Switzerland) | | | |
| △ F001 | 2727197 | Fuse-T500mA, 250V (for Australia, U.K., Sweden & Switzerland) | | | |

| SYMBOL NO. | PART NO. | DESCRIPTION | |
|-----------------------------|----------|---|--|
| △ C001 | 0243899 | Ceramic discal | 0.01 μ F \pm 10% 125V (for U.S.A. & Canada) |
| △ C002 | 0243901 | Ceramic discal | 0.01 μ F \pm 10% 400V (except U.S.A. & Canada) |
| | 2668362 | Pin post (5P) | |
| | 2668361 | Pin post (4P) | |
| | 2667575 | Pin ass'y | |
| | 2700371 | Connector | |
| | 2668371 | 5P connector | |
| | 2668411 | 4P connector | |
| △ T001 | 2247782 | Power transformer (for U.S.A. & Canada) | |
| △ T001 | 2247783 | Power transformer (for U.K.) | |
| △ T001 | 2247784 | Power transformer (for Australia & Sweden) | |
| △ T001 | 2247785 | Power transformer (for W.Germany, Asia & Latin American countries etc.) | |
| for FINAL ASSEMBLY | | | |
| | 4442841 | Cover | |
| | 3626561 | Antenna cover | |
| | 4567431 | 3 ϕ x 6 DT bind screw | |
| for CHASSIS ASSEMBLY | | | |
| | 3951712 | Front panel ass'y | |
| | 3901761 | Knob spacer | |
| | 3901521 | Slide stopper | |
| | 3951741 | Slide knob ass'y (for freq. level) | |
| | 3951751 | Push button (POWER) | |
| | 3951771 | LED holder | |
| | 3951781 | Leg | |
| △ | 2627221 | Voltage selector switch (for W.Germany, Asia & Latin American countries etc.) | |
| △ | 0043793 | Bushing (for U.S.A. & Canada) | |
| △ | 3913006 | Bushing (except U.S.A. & Canada) | |
| △ | 2748863 | Power supply cord (for U.S.A. & Canada) | |
| △ | 2748752 | Power supply cord (for W.Germany, Sweden, Asia & Latin American countries etc.) | |
| △ | 2749622 | Power supply cord (for Australia) | |
| △ | 2749582 | Power supply cord (for U.K.) | |
| | 4567431 | 3 ϕ x 6 DT bind screw (Black) | |
| | 4567411 | 3 ϕ x 6 DT bind screw (for PWB, others) | |
| | 4567454 | 3 ϕ x 12 DT bind screw | |
| | 4784103 | 3 ϕ x 8 bind tapping screw | |
| | 4575472 | 3 ϕ x 8 DT screw with washer | |
| for ACCESSORIES | | | |
| | 2748542 | Patch cord (for U.S.A.) | |
| | 2749505 | Patch cord (except U.S.A.) | |
| | 2658361 | E socket adapter (for W.Germany, Asia & Latin American countries etc.) | |

FRONT AND REAR PANEL · VORDERE UND HINTERE BEDIENUNGSTAFEL ·
PANNEAUX AVANT ET ARRIERE



- ① Equalizer control knobs
- ② POWER switch
- ③ EQUALIZATION selector switches
- ④ Output level ATTENUATOR
- ⑤ INPUT SELECTOR switch
- ⑥ High-range frequency selector switches
- ⑦ INPUT jacks
- ⑧ OUTPUT jacks
- ⑨ Tape REC OUT jacks
- ⑩ Tape PLAY jacks
- ⑪ VOLTAGE SELECTOR (for Asia & Latin American countries)
- ⑫ Power supply cord

- ① Entzerrerregler
- ② Netzschalter (POWER)
- ③ Entzerrungswahlschalter (EQUALIZATION)
- ④ Ausgangspeldämpfer (ATTENUATOR)
- ⑤ Eingangswahlschalter (INPUT SELECTOR)
- ⑥ Hochfrequenzwahlschalter
- ⑦ Eingangsbuchse (INPUT)
- ⑧ Ausgangsbuchse (OUTPUT)
- ⑨ Bandaufnahmebuchsen (REC OUT)
- ⑩ Bandwiedergabebuchsen (PLAY)
- ⑪ Spannungswähler (VOLTAGE SELECTOR) (für Asien und Lateinamerika)
- ⑫ Netzkabel

- ① Boutons de commande de l'égaliseur
- ② Interrupteur d'alimentation (POWER)
- ③ Sélecteur d'égalisation (EQUALIZATION)
- ④ Atténuateur du niveau de sortie (ATTENUATOR)
- ⑤ Sélecteurs d'entrée (INPUT SELECTOR)
- ⑥ Sélecteurs de fréquence de la gamme élevée
- ⑦ Prises d'entrée (INPUT)
- ⑧ Prises d'enregistrement (OUTPUT)
- ⑨ Prises d'enregistrement de bande (REC OUT)
- ⑩ Prises de lecture de bande (PLAY)
- ⑪ Sélecteur de tension (VOLTAGE SELECTOR) (pour pays d'Asie et d'Amérique latine)
- ⑫ Cordon d'alimentation électrique



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