

SPECIFICATIONS

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Amplifier Section

Continuous Power Output of 65 watts* per channel, min., at 8 ohms from 20 Hertz to 20,000 Hertz with no more than 0.02 % total harmonic distortion or 65 watts per channel at 4 ohms from 20 Hertz to 20,000 Hertz with no more than 0.03 % total harmonic distortion.

Continuous Power Output at 1kHz (both channels driven)
T.H.D. 0.02%, 8 ohms 70 watts per channel

Total Harmonic Distortion (20 Hertz to 20,000Hertz, 8 ohms, from AUX)
continuous rated power output . . . No more than 0.02%
32.5 watts per channel power output
. No more than 0.02%

1 watt per channel power output . . . No more than 0.02%

Intermodulation Distortion (50 Hertz: 7,000 Hertz = 4:1, 8 ohms, from AUX)
continuous rated power output . . . No more than 0.02%
32.5 watts per channel power output
. No more than 0.02%

1 watt per channel power output . . . No more than 0.02%

Damping Factor

(20 Hertz to 20,000 Hertz, 8 ohms) 35

Input (Sensitivity/Impedance)

PHONO	2.5mV/50kilohms
TUNER	150mV/50kilohms
AUX	150mV/50kilohms
TAPE PLAY 1, 2	150mV/50kilohms
TAPE PLAY 2 (DIN connector) . . .	150mV/50kilohms

Phono Overload Level (T.H.D. 0.01%, 1kHz)

PHONO
 200mV |

Output (Level/Impedance)

TAPE REC 1	150mV/1kilohm
TAPE REC 2	150mV/1kilohm
TAPE REC 2 (DIN connector)	30mV/80kilohms
Speaker	A, B, A+B (4 – 16ohms)

Frequency Response

PHONO (RIAA Equalization)	20Hz to 20,000Hz ±0.2dB
TUNER, AUX, TAPE PLAY	10Hz to 50,000Hz ±1dB

Tone Control

BASS	+7.5dB, -7.5dB (100Hz)
TREBLE	+7.5dB, -7.5dB (10,000Hz)

Subsonic Filter 15Hz (-6dB/oct)

Loudness Contour (Volume control set at -40dB position) +6dB (100Hz), +3dB (10,000Hz)

Hum and Noise (IHF, short-circuited, A network)

PHONO	86dB
TUNER, AUX, TAPE PLAY	100dB

Hum and Noise (DIN continuous power/50mW)

PHONO	70dB/60dB
TUNER, AUX, TAPE PLAY	86dB/61dB

Muting -20dB

Miscellaneous

Power Requirements

HA model	220V, 50/60Hz
HR model	240V, 50/60Hz
S, S/G models	110V/120V/220V/240V, 50/60Hz

Power Consumption

HA, HR models	600W
S, S/G models	190W

Dimensions 420(W) x 150(H) x 337(D) mm
16-9/16(W) x 5-7/8(H) x 13-1/4(D) in

Weight (without package) 9.7kg (21 lb. 6 oz)

Furnished Parts

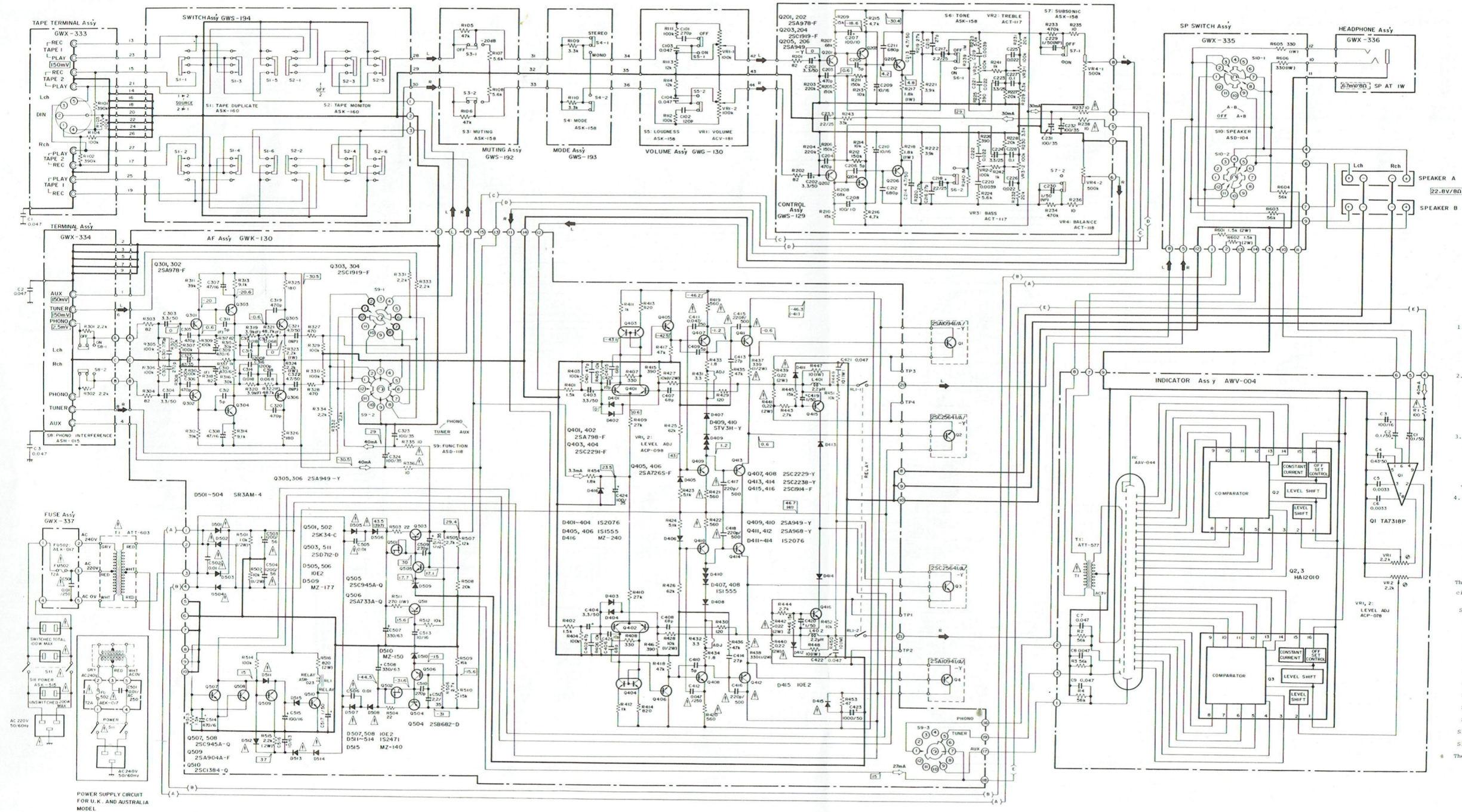
Operating instructions	1
Fuse 2.5A (S, S/G models only)	1
Fuse 5A (S, S/G models only)	1

NOTE:

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

* *Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.*

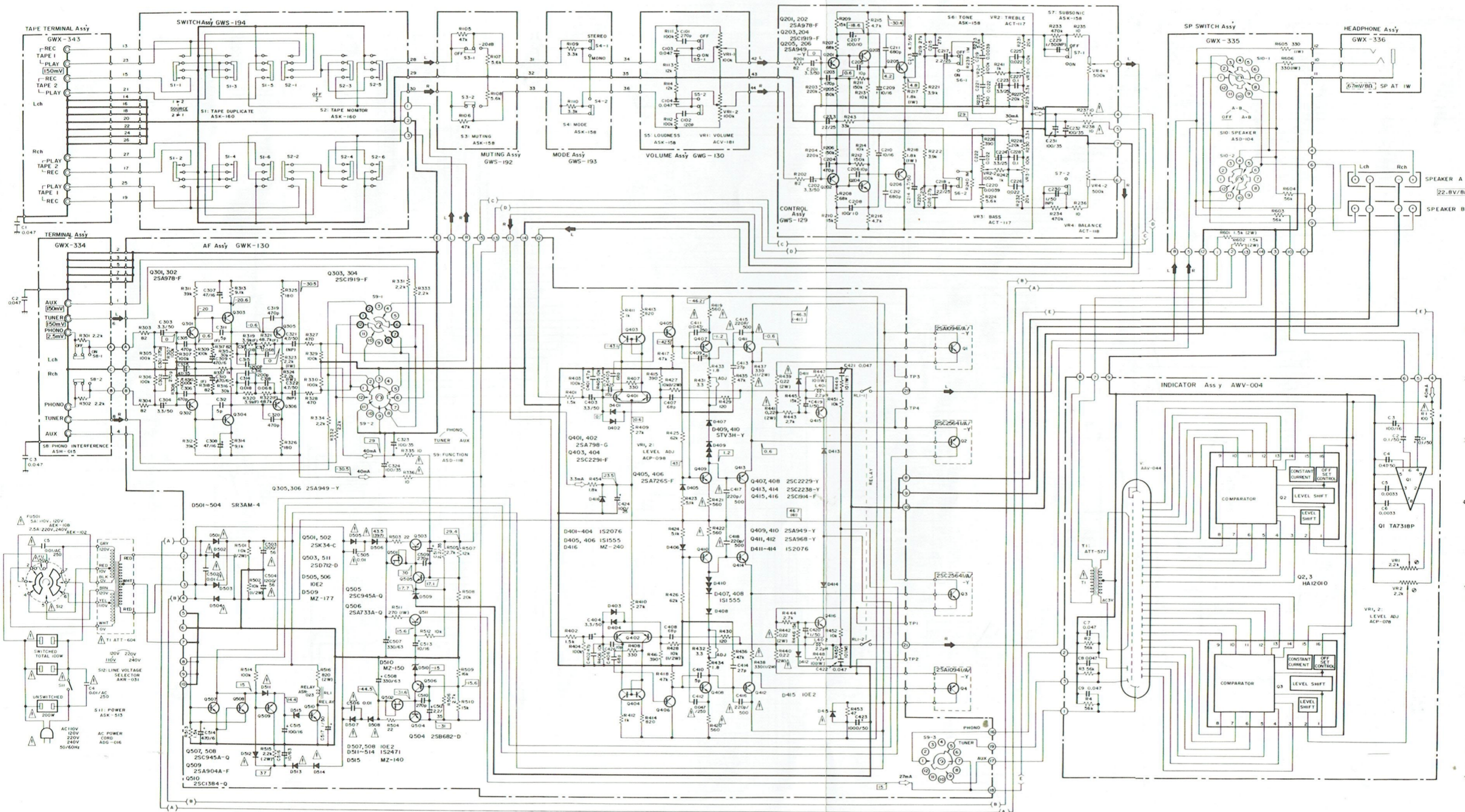
SCHEMATIC DIAGRAM



1. RESISTORS:
Indicated in Ω , 1/k Ω , 5% tolerance unless otherwise noted
k:1k, M:1M, (F):1F, (G):1G, (E):10E tolerance
 2. CAPACITORS:
Indicated in capacity (pF/voltage (V)) unless otherwise noted p/pF
Indication without voltage is 50V except electrolytic capacitor.
 3. VOLTAGE, CURRENT:
 \square : Signal voltage at 65W + 65W @ output (1kHz)
 \square : DC voltage (V) at no input signal
Value in () is DC voltage at rated power.
 \square : DC current at no input signal
 4. OTHERS:
 \rightarrow : Signal route
 \odot : Adjusting point
The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation. This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.
- SWITCHES
- S1 TAPE DUPLICATE 1-2-SOURCE-2-1
 - S2 TAPE MONITOR 1-OFF-2
 - S3 MUTING OFF-20dB
 - S4 MODE STEREO-MONO
 - S5 LOUDNESS OFF-ON
 - S6 TONE OFF-ON
 - S7 SUBSONIC OFF-ON
 - S8 PHONO INTERFERENCE OFF-ON
 - S9 FUNCTION TUNER-PHONO-AUX
 - S10 SPEAKERS OFF-A-B-A-B
 - S11 POWER OFF-ON
- 4 The underlined indicates the switch position.

POWER SUPPLY CIRCUIT FOR U.K. AND AUSTRALIA MODEL

SCHEMATIC DIAGRAM



1. RESISTORS:
Indicated in Ω , 1/4W, $\pm 5\%$ tolerance unless otherwise noted
k:1K, M:1M, (F):1F, (G):2K, (K):10K tolerance
 2. CAPACITORS:
Indicated in capacity(μ F)/voltage(V) unless otherwise noted p:pF
Indication without voltage is 50V except electrolytic capacitor.
 3. VOLTAGE, CURRENT:
 \square : Signal voltage at 65W + 65W R_L output(1kHz)
 \square : DC voltage(V) at no input signal
Value in () is DC voltage at rated power.
 \square : mA ; DC current at no input signal
 4. OTHERS:
 \rightarrow : Signal route
 \oplus : Adjusting point
The \oplus mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.
- SWITCHES
- | | |
|---------------------------|---------------------|
| S1 TAPE DUPLICATE | 1+2-SOURCE-2+1 |
| S2 TAPE MONITOR | 1-OFF-2 |
| S3 MUTING | OFF-20dB |
| S4 MODE | STEREO-MONO |
| S5 LOUDNESS | OFF-ON |
| S6 TONE | OFF-ON |
| S7 SUBSONIC | OFF-ON |
| S8 PHONO INTERFERENCE | OFF-ON |
| S9 FUNCTION | TUNER-PHONO-AUX |
| S10 SPEAKERS | OFF-A-B-A-B |
| S11 POWER | OFF-ON |
| S12 LINE VOLTAGE SELECTOR | 110V-120V-220V-240V |
- The underlined indicates the switch position.