

SPECIFICATIONS

Semiconductors

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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)

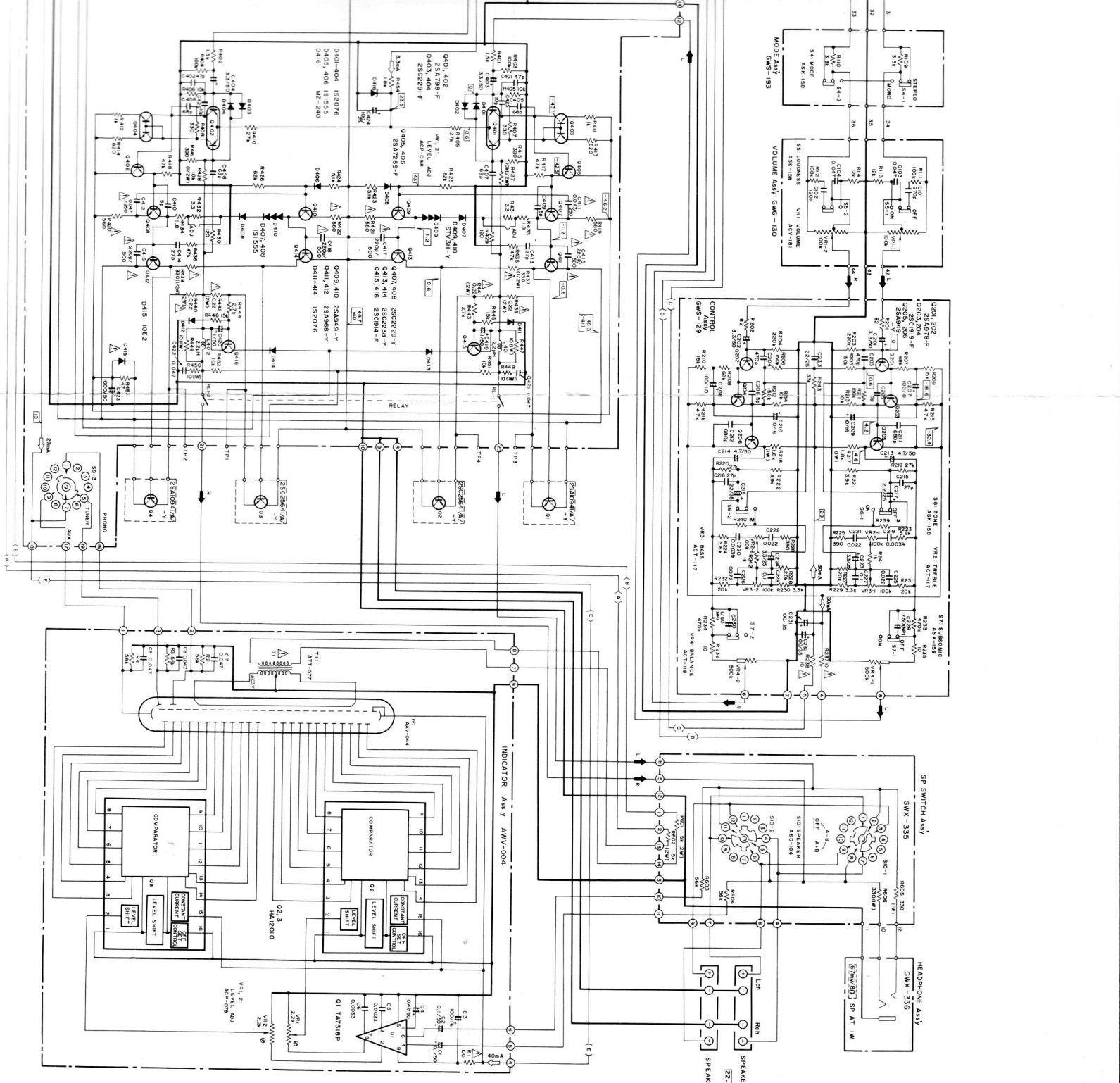
Furnished Parts

• 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.



1. RESISTORS:
Indicated in Ω , 1/4W, .5% tolerance unless otherwise noted
K:K, M:K, (F):.1%, (G):.2%, (R):.10% tolerance
 2. CAPACITORS:
Indicated in capacity (pF)/voltage(V) unless otherwise noted pF
Indication without voltage is 50V except electrolytic capacitor.
 3. VOLTAGE, CURRENT:
V: Signal voltage at 65W + 65W 80 output(1kHz)
V: DC voltage (V) at no input signal
Value in () is DC voltage at rated power.
 4. OTHERS:
↔: Signal route
⊙: Adjusting point
The 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 TONE DUCTOR 1-2-SOURCE-2-1
 - S2 TONE MONITOR 1-OFF-2
 - S3 TUNING OFF-ON
 - S4 MODE STEREO-MONO
 - S5 LOUDNESS OFF-ON
 - S6 TONE OFF-ON
 - S7 SUBSONIC OFF-ON
 - S8 HINDO INTERFERENCE OFF-ON
 - S9 FUNCTION TUNE-HINDO-MIX
 - S10 SPEAKERS OFF-ON
 - S11 POWER OFF-ON
- The underlined indicates the switch position.