

# Service Manual

Amplifier

## SU-V560

Stereo Integrated Amplifier



Color

(K)...Black Type

Area

Country Code	Area	Color
(E), (E5)	Continental Europe	(K)
(EB)	Great Britain	(K)
(EG)	F.R. Germany & Italy	(K)

### SPECIFICATIONS (DIN 45 500)

#### ■ AMPLIFIER SECTION

20 Hz~20 kHz continuous power output  
both channels driven 2 × 60 W (8 Ω)  
1 kHz continuous power output  
both channels driven (THD: 1%) 2 × 70 W (8 Ω)  
2 × 100 W (4 Ω)

63 Hz~12.5 kHz continuous power output  
both channels driven (0.7%) 2 × 60 W (8 Ω)  
2 × 90 W (4 Ω)

Total harmonic distortion (Power Amp Direct input)  
rated power at 20 Hz~20 kHz 0.005 % (8 Ω)  
0.0009 % (8 Ω)  
0.002 % (4 Ω)  
rated power at 1 kHz 0.005 % (8 Ω)  
0.0009 % (8 Ω)  
0.002 % (4 Ω)  
half power at 20 Hz~20 kHz 0.005 % (8 Ω)  
half power at 1 kHz 0.0009 % (8 Ω)  
0.002 % (4 Ω)

Intermodulation distortion  
rated power at 50 Hz: 7 kHz = 4:1, SMPTE, 8 Ω 0.007 %  
Residual hum and noise 0.2 mV  
Damping factor 60 (8 Ω), 30 (4 Ω)  
Headphones output level and impedance 540 mV/330 Ω  
Load impedance  
A or B 4 Ω~16 Ω  
A and B 8 Ω~16 Ω

Input sensitivity and impedance  
PHONO MM 2.5 mV/47 kΩ  
PHONO MC 170 μV/220 Ω  
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT 150 mV/22 kΩ  
POWER AMP DIRECT 1 V/18 kΩ  
Phono maximum input voltage (IHF '66, 1 kHz, RMS)  
MM 160 mV  
MC 12 mV

S/N  
rated power (4 Ω)  
PHONO MM 77 dB (IHF '66: 83 dB)  
PHONO MC 64 dB (IHF '66: 64 dB, 250 μV)  
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT 97 dB (IHF '66: 100 dB)

POWER AMP DIRECT 106 dB (IHF '66: 115 dB)

−26 dB power (4 Ω)

PHONO MM 76 dB

PHONO MC 63 dB

TUNER, CD, AUX, TAPE 1, TAPE 2/DAT 84 dB

50 mW power (4 Ω)

PHONO MM 75 dB

PHONO MC 63 dB

TUNER, CD, AUX, TAPE 1, TAPE 2/DAT 78 dB

Frequency response  
PHONO RIAA standard curve  
±0.8 dB (30 Hz~15 kHz)

TUNER, CD, AUX, TAPE 1, TAPE 2/DAT  
3 Hz~100 kHz (−3 dB)  
+0 dB, −0.2 dB (20 Hz~20 kHz)

POWER AMP DIRECT  
2 Hz~120 kHz (−3 dB)  
+0 dB, −0.2 dB (20 Hz~20 kHz)

Tone controls  
BASS 50 Hz, +10 dB, −10 dB  
TREBLE 20 kHz, +10 dB, −10 dB  
Loudness control (volume at −30 dB) 50 Hz, +9 dB

Output voltage  
TAPE 1, TAPE 2/DAT REC OUT 150 mV  
Channel balance, AUX 250 Hz~6,300 Hz ±1 dB  
Channel separation, AUX 1 kHz 50 dB

#### ■ GENERAL

Power consumption 520 W  
Power Supply For Great Britain AC 50 Hz/60 Hz, 240 V  
For others AC 50 Hz/60 Hz, 220 V  
Dimensions (W × H × D) 430 × 125 × 320 mm  
(16-15/16" × 4-15/16" × 12-5/8")  
Weight 8.8 kg (19.36 lb.)

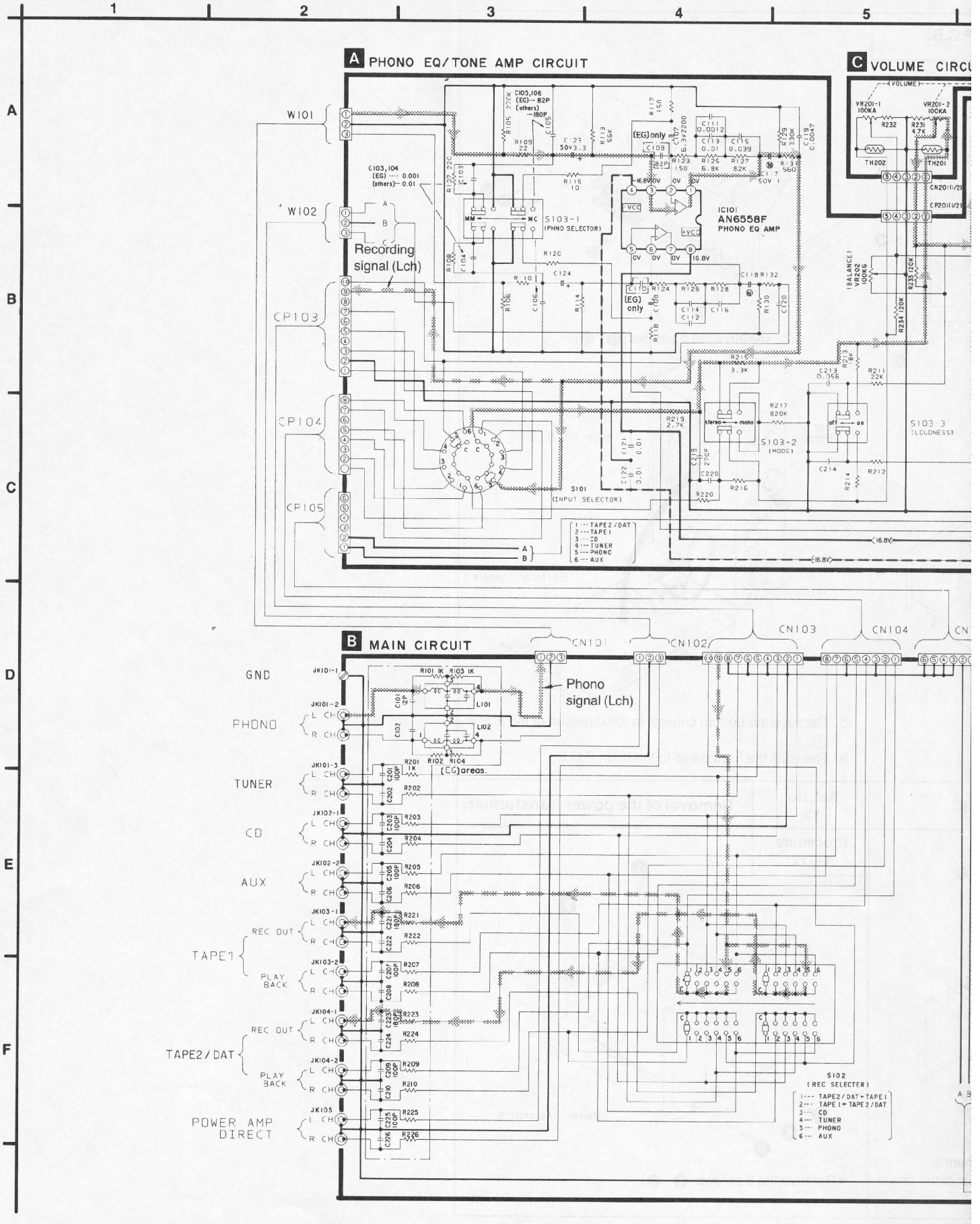
#### Notes:

- Specifications are subject to change without notice. Weight and dimensions are approximate.
- Total harmonic distortion is measured by the digital spectrum analyzer.

# Technics

Matsushita Electric Industrial Co., Ltd.  
Central P.O. Box 288, Osaka 530-91, Japan

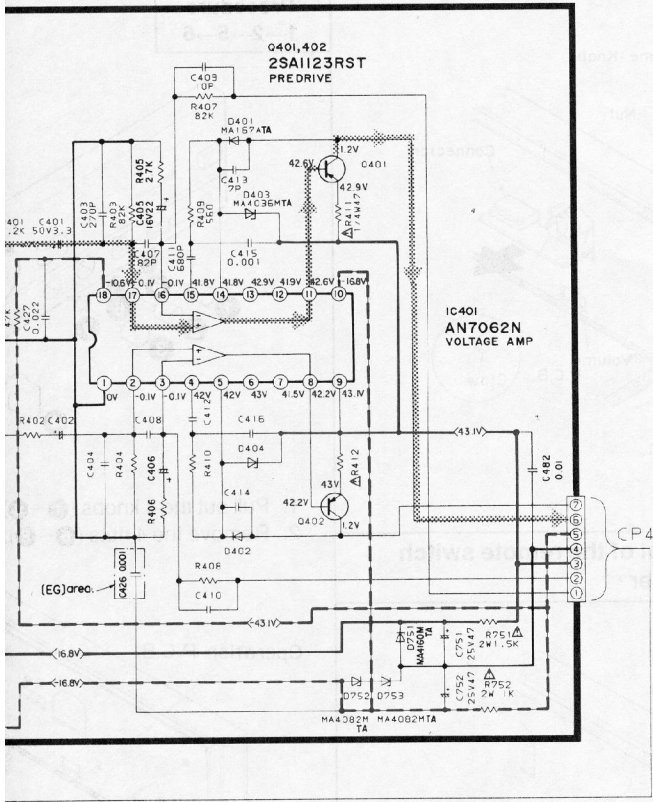




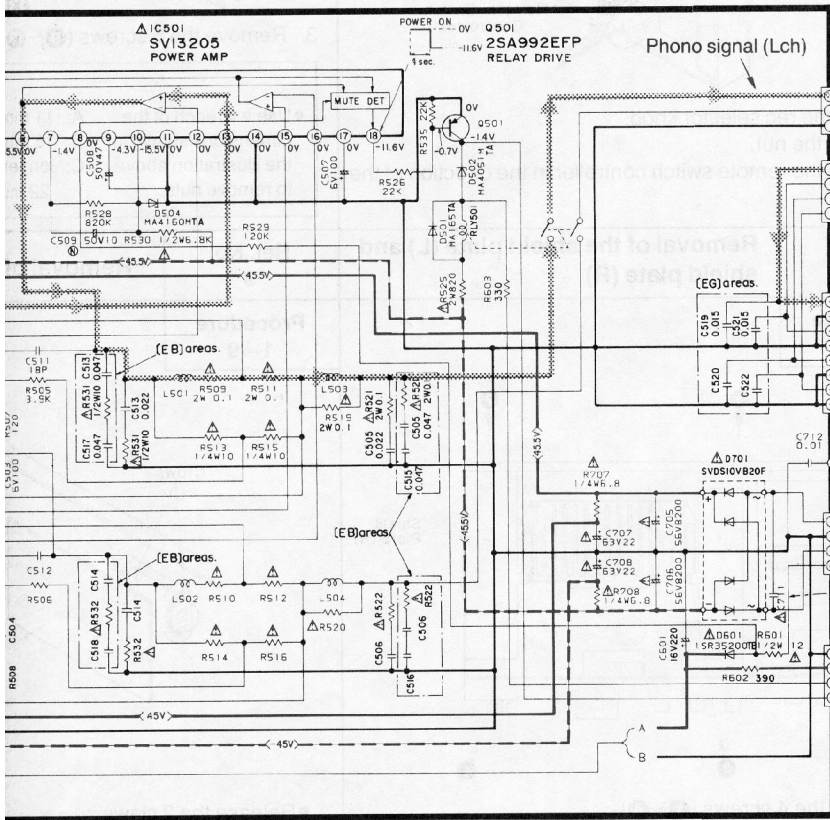
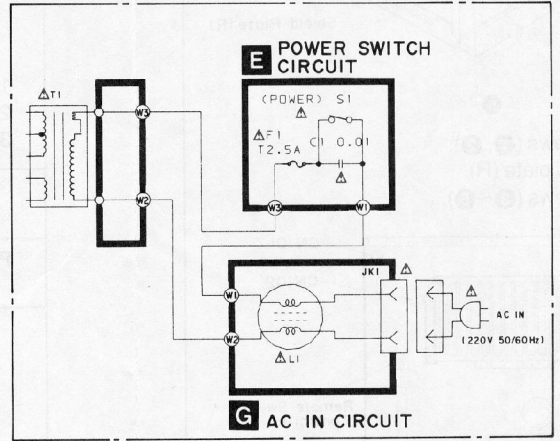




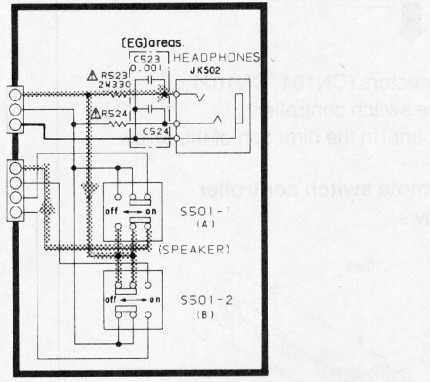




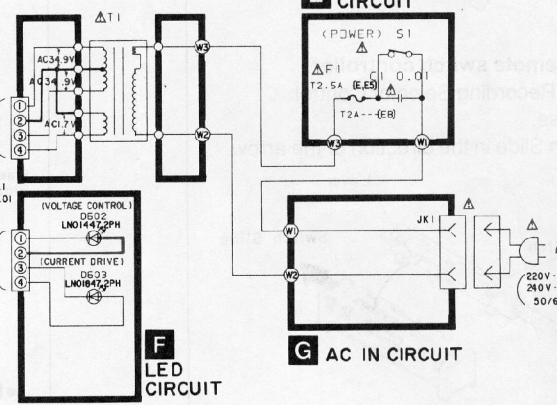
Power Source For [EG] area



HEADPHONES/SPEAKER SWITCH CIRCUIT



POWER SWITCH CIRCUIT



LED CIRCUIT



■ BLOCK DIAGRAM

