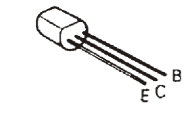
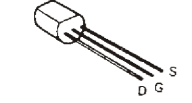


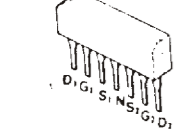
2SA872  
2SA992  
2SA999  
2SC1845  
2SC2320



2SK136  
2SK163



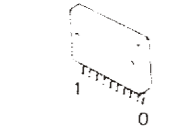
2SK150A



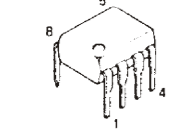
HA12002



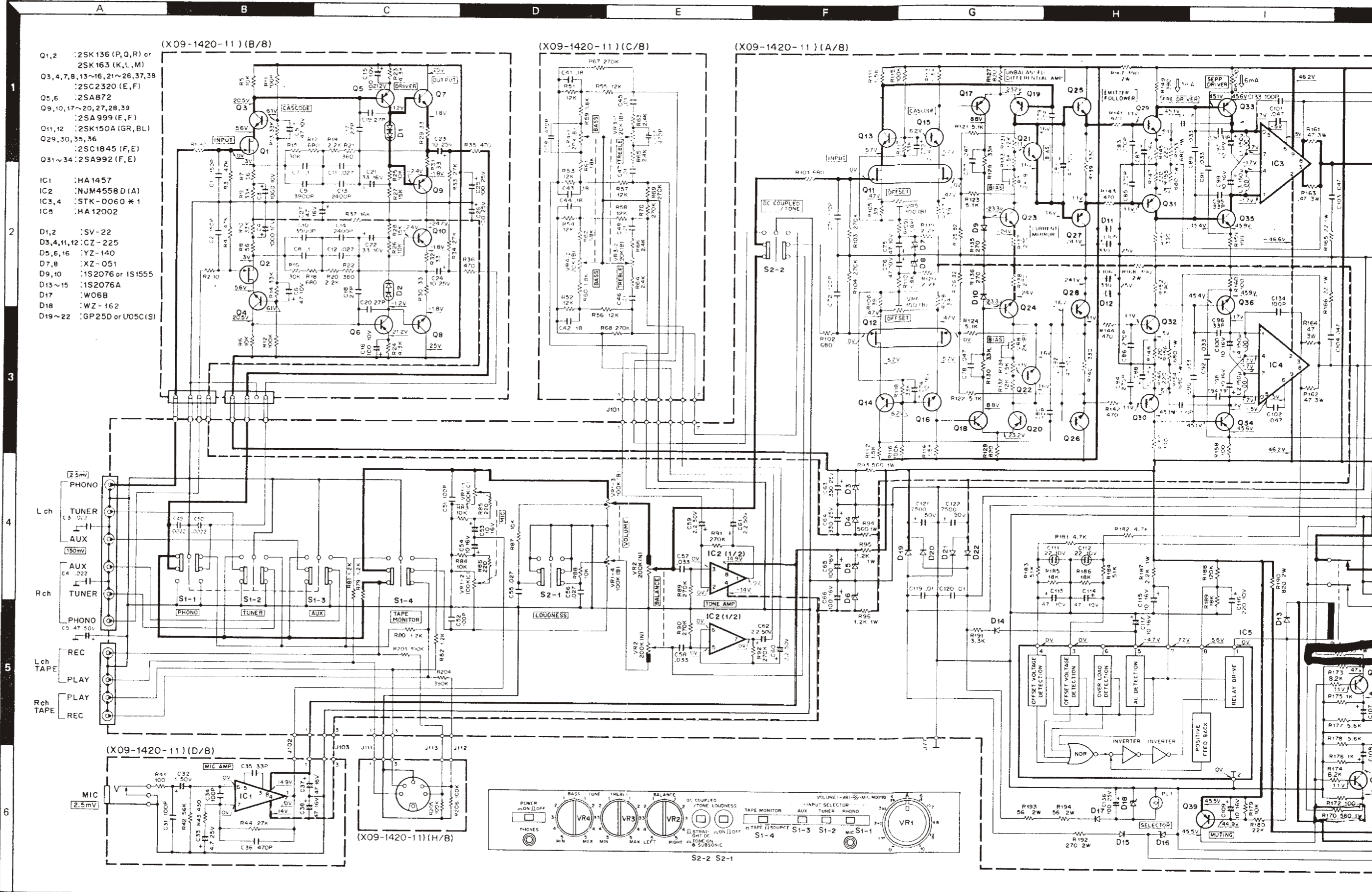
STK0060\*1



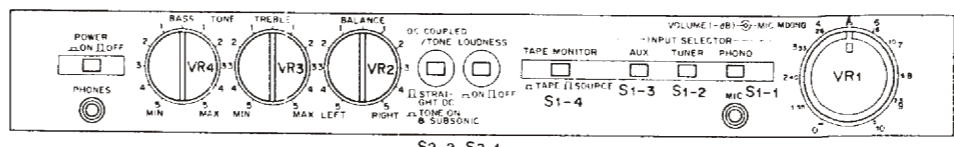
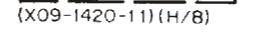
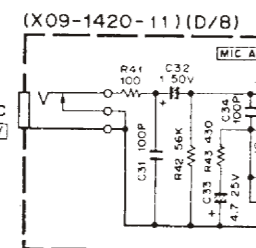
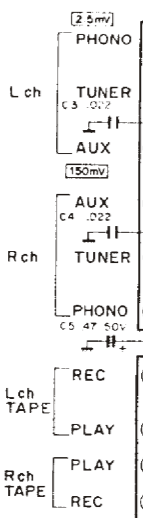
NJM4558



HA1457



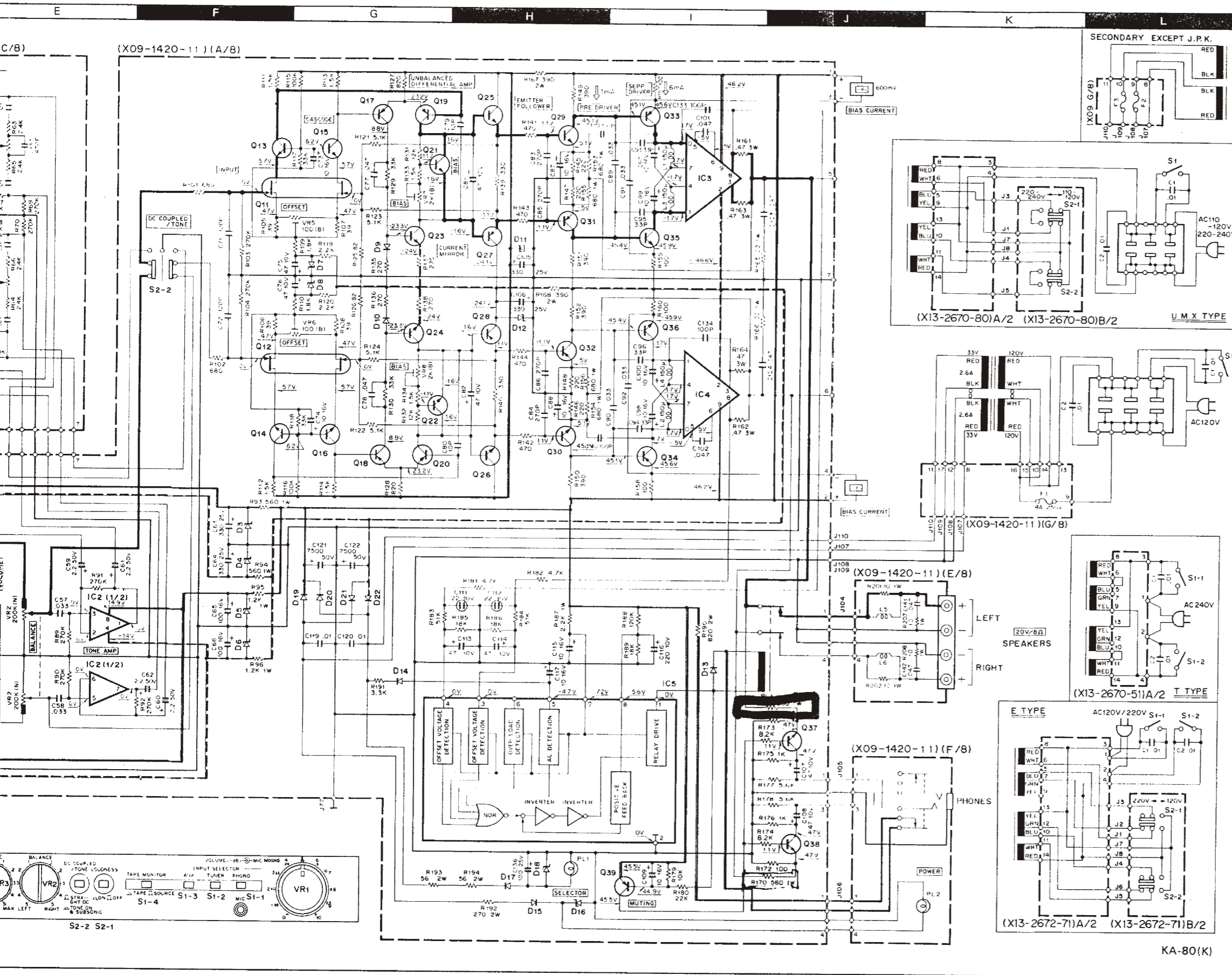
- (X09-1420-11) (B/B)
- Q1,2 : 2SK136 (P,Q,R) or 2SK163 (K,L,M)
  - Q3,4,7,8,13~16,21~26,37,38 : 2SC2320 (E,F)
  - Q5,6 : 2SA872
  - Q9,10,17~20,27,28,39 : 2SA999 (E,F)
  - Q11,12 : 2SK150A (GR,BL)
  - Q29,30,35,36 : 2SC1845 (F,E)
  - Q31~34 : 2SA992 (F,E)
- IC1 : HA1457  
IC2 : NJM4558 D(A)  
IC3,4 : STK-0060 \*1  
IC5 : HA12002
- D1,2 : SV-22
  - D3,4,11,12 : CZ-225
  - D5,6,16 : YZ-140
  - D7,8 : XZ-051
  - D9,10 : 1S2076 or 1S1555
  - D13~15 : 1S2076A
  - D17 : W06B
  - D18 : WZ-162
  - D19~22 : GP25D or U05C(S)



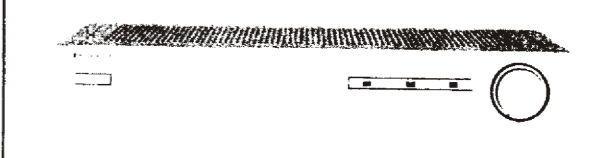
S2-2 S2-1

# HIGH SPEED DC STEREO INTEGRATED AMPLIFIER

# KA-80



SECONDARY EXCEPT J.P.K.



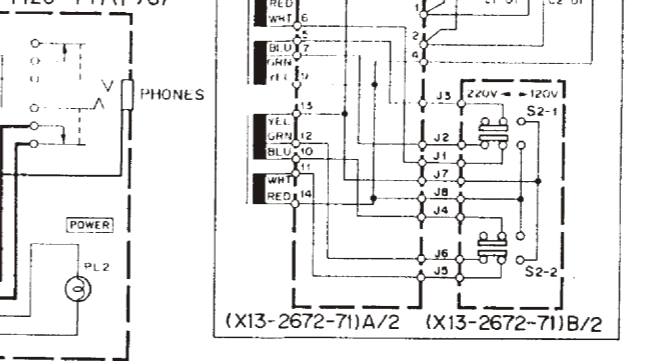
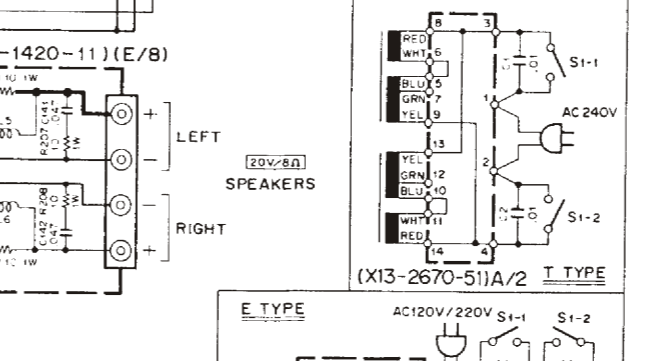
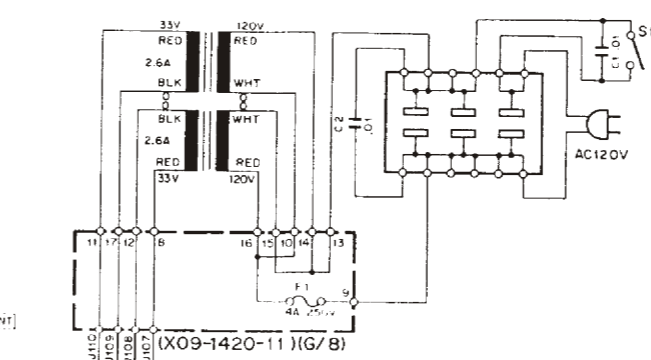
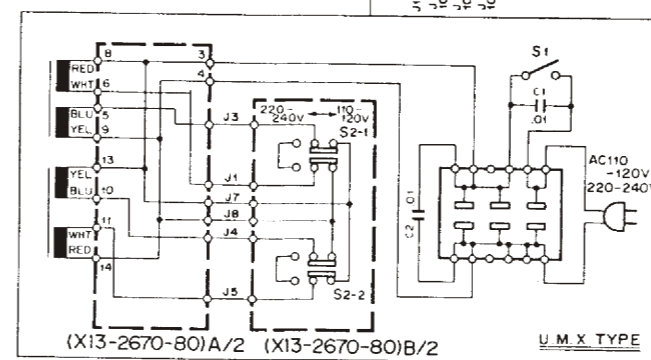
## SPECIFICATIONS

- Power output  
**48 watts per channel minimum RMS, both channels driven, at 8 ohms from 20Hz to 20,000Hz with no more than 0.02% total harmonic distortion.**
- Both Channels Driven . . . . . 50 + 50 watts 8 ohms at 1,000 Hz  
55 + 55 watts 4 ohms at 1,000 Hz
- Total Harmonic Distortion (20 Hz to 20,000 Hz)  
AUX input to SPEAKER output . . . . . 0.02% at rated power into 8 ohms  
0.015% at 1/2 rated power into 8 ohms
- PHONO input to SPEAKER output . . . . . 0.02% at rated power with VOLUME -20 dB
- Intermodulation Distortion . . . . . 0.0065% at rated power into 8 ohms (60 Hz : 7 kHz = 4 : 1)
- Damping Factor . . . . . 120, DC -20,000 Hz into 8 ohms
- Transient Response  
Rise Time . . . . . 0.8 μs  
Slew Rate . . . . . ±150 V/μs
- Power Bandwidth . . . . . 5 Hz to 40,000 Hz at 0.05% T.H.D.
- Frequency Response  
(DC COUPLED at ON) . . . . . DC to 450 kHz, -3 dB  
(DC COUPLED at OFF) . . . . . 18 Hz to 100 kHz, -3 dB
- Speaker Impedance . . . . . Accept 4 ohms to 16 ohms
- Input Sensitivity/Impedance  
Phono . . . . . 2.5 mV/50 kohms  
Tuner, AUX, Tape . . . . . 150 mV/50 kohms
- Signal to Noise Ratio (IHF, A)  
Phono . . . . . 86 dB for 2.5 mV input  
92 dB for 5.0 mV input  
98 dB for 10 mV input  
106 dB for 150 mV input
- Tuner, AUX, Tape . . . . . 230 mV (RMS), T.H.D. 0.02% at 1,000 Hz
- Phono Maximum Input Level . . . . . 230 mV (RMS), T.H.D. 0.02% at 1,000 Hz
- Output Level/Impedance  
Tape REC (Pin) . . . . . 150 mV/220 ohms  
(DIN) . . . . . 30 mV/75 kohms
- Phono Frequency Response . . . . . RIAA standard curve ±0.3 dB (20 Hz to 20,000 Hz)
- Tone Control  
Bass . . . . . ±10 dB at 100 Hz  
Treble . . . . . ±10 dB at 10 kHz
- Loudness Control . . . . . +9 dB at 100 Hz (at -30 dB VOLUME Level)
- Subsonic Filter . . . . . 18 Hz/6 dB

## GENERAL

- Power Requirement . . . . . 60 Hz 120V (U.S.A. & Canada Model) or 50/60 Hz 110-120V/220-240V, switchable
- Power Consumption . . . . . 450 watts at full pwr
- A.C. Outlet . . . . . Switched 2, Unswitched 1
- Dimensions . . . . . W 440 mm (17-5/16")  
H 78 mm (3-1/16")  
D 330 mm (13")
- Weight (Net) . . . . . 7.9 kg (17.4 lbs)

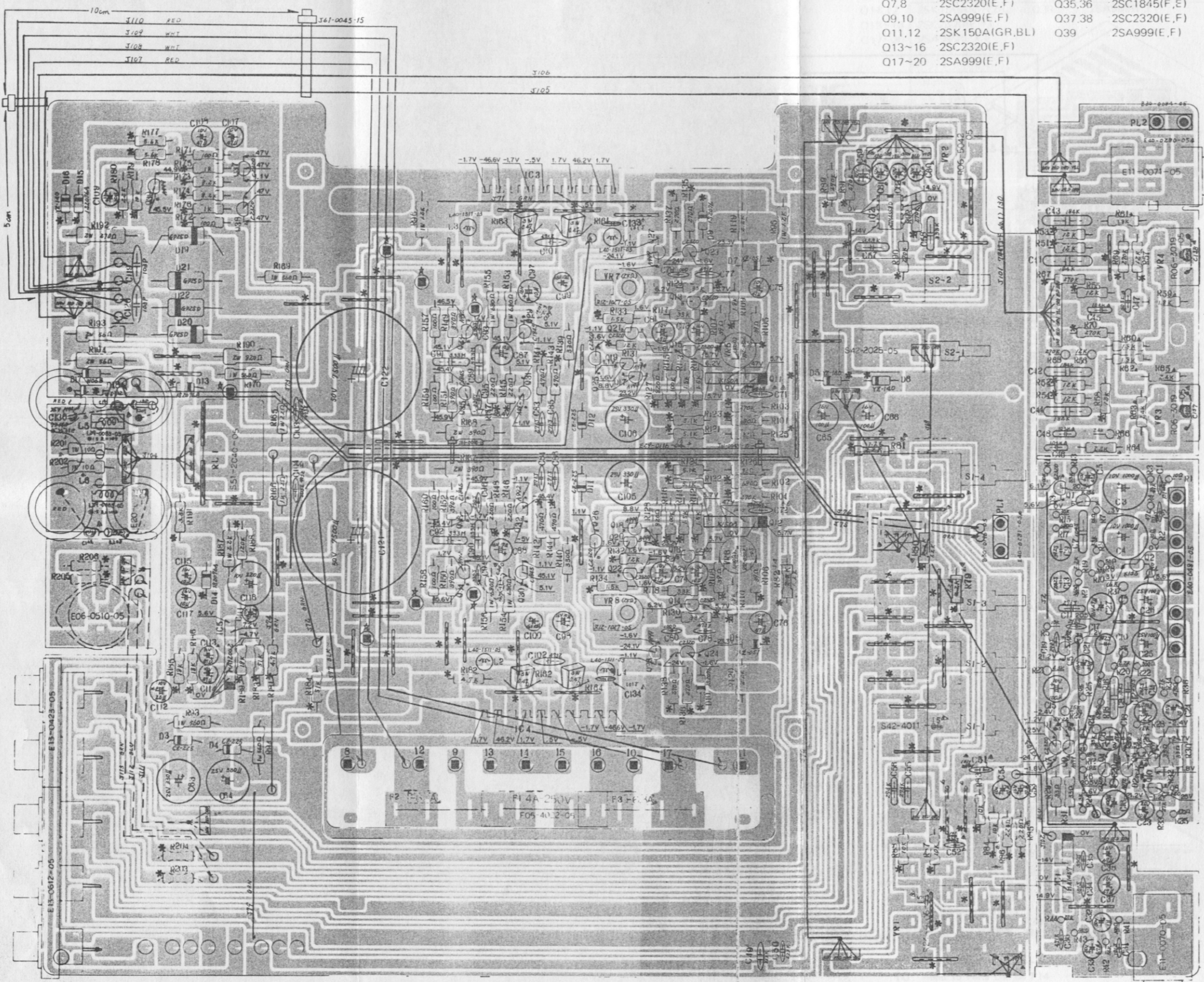
Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.



KA-80(K)

PC BOARD

AUDIO (X09-142x-xx) COMPONENT SIDE



- |        |                |        |              |       |              |        |                 |
|--------|----------------|--------|--------------|-------|--------------|--------|-----------------|
| Q1,2   | 2SK163(K,L,M)  | Q21~26 | 2SC2320(E,F) | IC1   | :HA1457      | D9,10  | :1S2076,1S1555  |
|        | 2SK136(P,O,R)  | Q27,28 | 2SA999(E,F)  | IC2   | :NJM4558D(A) | D11,12 | :CZ-225         |
| Q3,4   | 2SC2320(E,F)   | Q29,30 | 2SC1845(F,E) | IC3,4 | :STK-0060*1  | D13~15 | :1S2076A        |
| Q5,6   | 2SA872         | Q31~34 | 2SA992(F,E)  | IC5   | :HA12002     | D16    | :YZ-140         |
| Q7,8   | 2SC2320(E,F)   | Q35,36 | 2SC1845(F,E) |       |              | D17    | :W06B           |
| Q9,10  | 2SA999(E,F)    | Q37,38 | 2SC2320(E,F) | D1,2  | :SV-22       | D18    | :WZ-162         |
| Q11,12 | 2SK150A(GR,BL) | Q39    | 2SA999(E,F)  | D3,4  | :CZ-225      | D19~22 | :GP25D, U05C(S) |
| Q13~16 | 2SC2320(E,F)   |        |              | D5,6  | :YZ-140      |        |                 |
| Q17~20 | 2SA999(E,F)    |        |              | D7,8  | :XZ-051      |        |                 |

Q · IC	VR · S
	VR2
Q37, IC3	
Q39, IC2	
Q38	
Q27,23	VR4
Q13	VR7
Q33,29,21	
Q15	VR5
Q25	
Q19	
Q17,11	
Q35,31	VR3
Q3, 1	
Q36,32, Q12	
Q18	
Q26, Q20	
Q16, Q2	VR6
Q34,30, Q22	
Q14	VR8
IC5	
Q28,24, Q5	
IC4	
Q7,9,10	
Q4,6	
Q8	
IC1	
	VR1