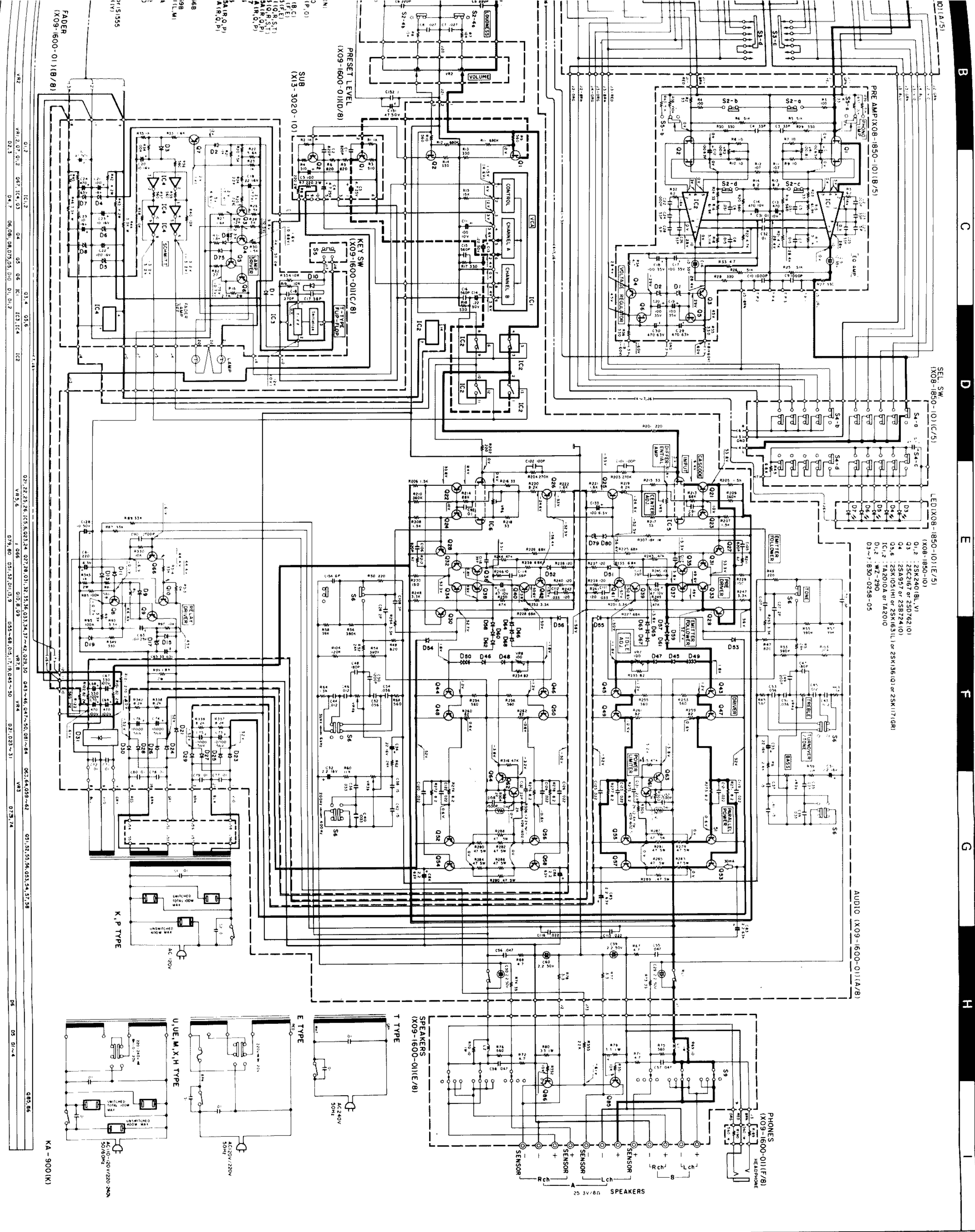


# NEW HIGH SPEED INTEGRATED AMPLIFIER

# KA-900



## SPECIFICATIONS

**PERFORMANCE**  
 Power output  
**80 watts\* per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.005% total harmonic distortion.**

Both Channels Driven  
 Total Harmonic Distortion (20 Hz to 20,000 Hz)  
 AUX input to SPEAKER output..... 0.005% at rated power into 8 ohms  
 0.005% at 1/2 rated power into 8 ohms  
 PHONO input to SPEAKER output..... 0.007% at rated power with VOLUME - 20 dB  
 0.005% at rated power into 8 ohms  
 Intermodulation Distortion (60 Hz & 10 kHz & 11 kHz)  
 Damping Factor..... 500 at 100 Hz  
 Transient Response  
 Rise Time..... 0.9 μs  
 Slew Rate..... ±120 V/μs  
 Frequency Response (DC COUPLED at ON, 18 Hz to 400 kHz, -3 dB; DC COUPLED at OFF, 18 Hz to 400 kHz, -3 dB)  
 Speaker Impedance..... Accept 4 ohms to 16 ohms  
 Input Sensitivity/Impedance  
 Phono (MM)..... 2.5 mV/33 k ohms, 47 k ohms and 100 k ohms  
 0.2 mV/100 ohms  
 Phono (MC)..... 150 mV/47 k ohms  
 Tuner, AUX, Tape A, B Signal-to-Noise Ratio (HF, A)..... 86 dB for 2.5 mV input  
 92 dB for 5.0 mV input  
 66 dB for 0.2 mV input  
 72 dB for 0.4 mV input  
 105 dB for 1.50 mV input  
 Tuner, AUX, Tape A, B Maximum Input Level  
 Phono (MM)..... 270 mV (RMS), T.H.D. 0.003% at 1,000 Hz  
 15 mV (RMS), T.H.D. 0.003% at 1,000 Hz  
 Phono (MC)..... 150 mV/330 ohms  
 Output Level/Impedance  
 Tape REC (Ph)..... 30 mV/80 k ohms  
 RIAA Standard Curve ±0.2 dB (20 Hz to 20,000 Hz)

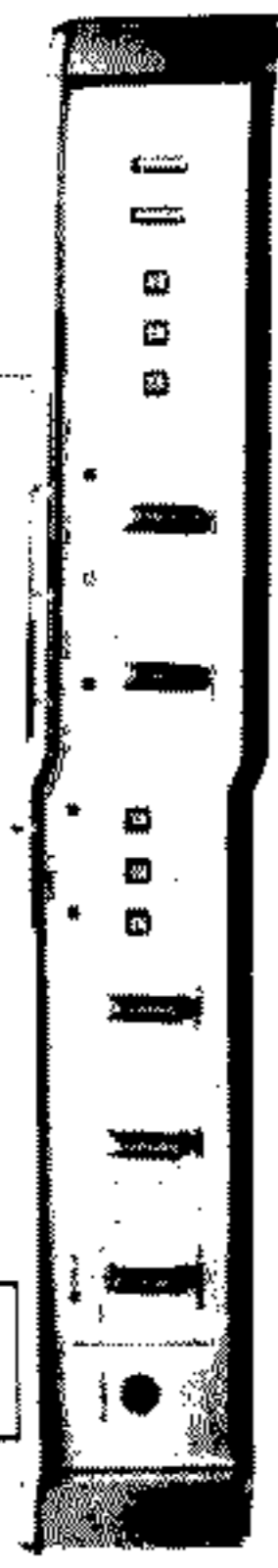
Tone Control  
 Bass Turnover Freq. 200 Hz ±10 dB at 50 Hz  
 400 Hz ±10 dB at 100 Hz  
 3 kHz ±10 dB at 10 kHz  
 Treble Turnover Freq. 6 kHz ±10 dB at 20 kHz  
 ±10 dB at 100 Hz  
 (at -30 dB VOLUME Level)  
 18 Hz, 6 dB/oct  
 Loudness Control  
 Subsonic Filter  
**GENERAL**  
 Power Requirements..... 60 Hz, 120 V (U.S.A. & Canada Model) or 50/60 Hz 110-120 V/220-240 V  
 Power Consumption..... 4 A (UL and CSA) or 50/60 Hz (IEC)  
 A.C. Outlet..... Switched 2, Unswitched 1  
 Dimensions..... W 440 mm (17.5 1/8")  
 H 123 mm (4.84 3/8")  
 D 375 mm (14.75 3/8")  
 Weight (Net)..... 10.0 kg (22.0 lbs)

\* Measured pursuant to Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier in U.S.A.  
 Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.  
 Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.  
 Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

KA-900 (K)

# KA-900

REVISED EDITION



## SPECIFICATIONS

### PERFORMANCE

Power output  
**80 watts\* per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.005% total harmonic distortion.**

Both Channels Driven  
 Total Harmonic Distortion (20 Hz to 20,000 Hz)  
 AUX input to SPEAKER output..... 85 +85 watts 8 ohms at 1,000 Hz  
 0.005% at rated power into 8 ohms  
 0.005% at 1/2 rated power into 8 ohms

PHONO input to SPEAKER output  
 Intermodulation Distortion (60 Hz; 7 kHz = 4:1)  
 Damping Factor..... 500, at 100 Hz  
 Transient Response..... 0.9 μs  
 Rise Time..... ± 120 V/μs

Frequency Response  
 (DC COUPLED at ON)  
 (DC COUPLED at OFF)  
 Speaker Impedance  
 Input Sensitivity/Impedance  
 Phono (MM)..... 2.5 mV/33 k ohms, 47 k ohms and 100 k ohms  
 Phono (MC)..... 0.2 mV/100 ohms  
 Tuner, AUX, Tape A, B  
 Signal to Noise Ratio (HF, A)  
 Phono (MM)..... 150 mV/47 k ohms

Phono (MC)  
 Tuner, AUX, Tape A, B  
 Maximum Input Level  
 Phono (MM)..... 270 mV (RMS), T H D 0.003% at 1,000 Hz  
 15 mV (RMS), T H D 0.003% at 1,000 Hz

Output Level/Impedance  
 Tape REC (Pin)  
 Phono Frequency Response  
 Tone Control  
 Bass Turnover Freq. 200 Hz  
 400 Hz  
 3 kHz  
 6 kHz

Treble Turnover Freq. ± 10 dB at 50 Hz  
 ± 10 dB at 100 Hz  
 ± 10 dB at 10 kHz  
 ± 10 dB at 20 kHz  
 Loudness Control  
 Subsonic Filter  
 (at -30 dB VOLUME Level)  
 18 Hz, 6 dB oct

GENERAL  
 Power Requirements  
 Model  
 or 50/60 Hz 110-120 V 220 240 V  
 4 A IUL and CSA  
 480 W IIEC

A.C. Outlet  
 Dimensions  
 Weight (Net)  
 1.0 kg (2.2 lbs)

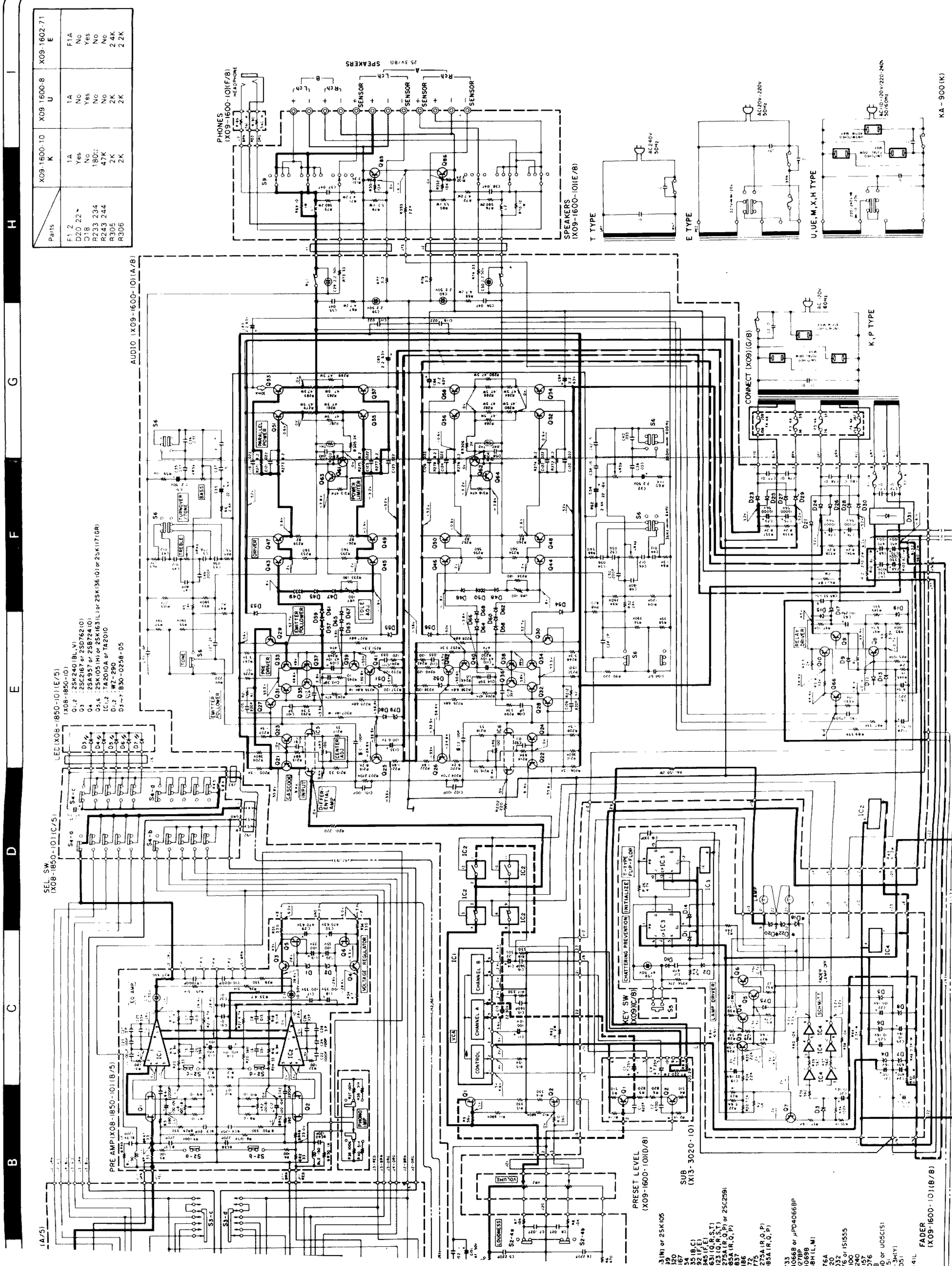
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## NEW HIGH SPEED INTEGRATED AMPLIFIER



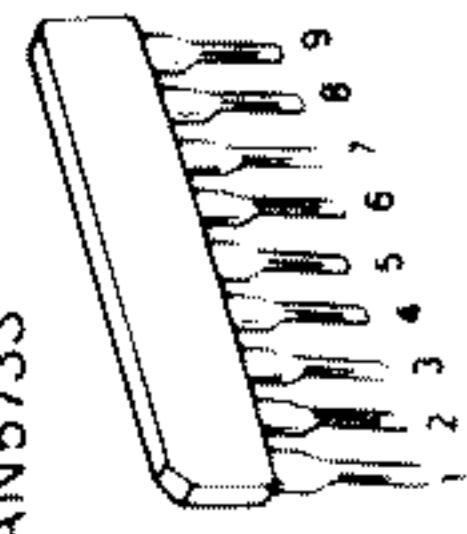
PHITS	X09-1800-10 K	X09-1600-8 U	X09-1602-71 E
F1.7	1A	1A	F1A
D20.22*	Yes	No	No
D18	No	Yes	Yes
R233 234	180Ω	No	No
R243 244	47k	No	No
R305	2k	2k	2.4k
R306	2k	2k	2.2k

DC voltages are measured by a VOM with 20 kΩ/V input impedance.

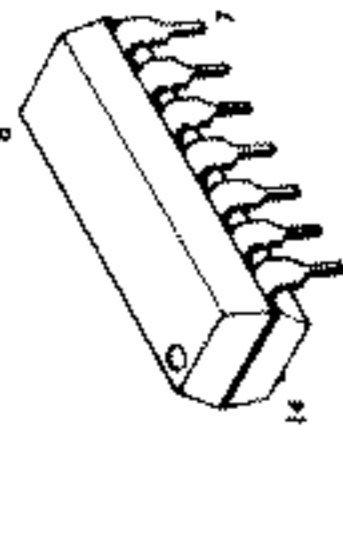
No other than TC4027BP is to be used for IC3.

AN5733

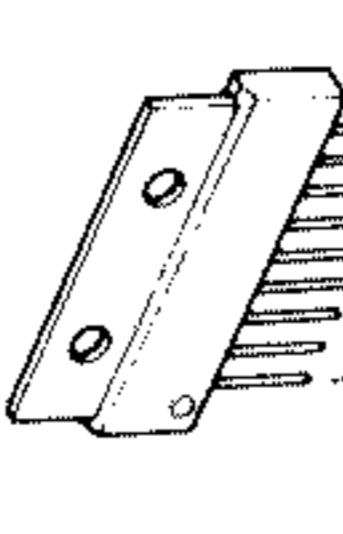
- 2SA733
- 2SA872
- 2SA912
- 2SA954
- 2SA992
- 2SA999
- 2SA1123
- 2SA1127NC
- 2SC535
- 2SC945
- 2SC1674
- 2SC1775
- 2SC1845
- 2SC1885
- 2SC1923
- 2SC2320
- 2SC2631



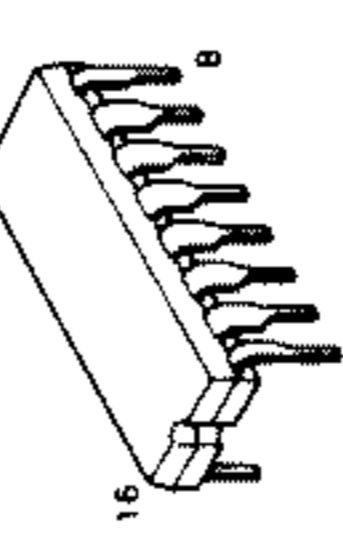
MB84066B  
MB84069B  
μ PD4066BC  
μ PD4069UBC



TA2010  
TA2010A



TC4027BP



2SA985A

2SA1111

2SB724

2SC2275A

2SC2591

2SC2632

2SD313V-AL

2SA1186

2SC2837

2SK105

2SK117

2SK163

2SK136

μ PA68H

2SK240

2SK240

2SK240

2SK240

2SK240

2SK240

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2SK240

2SK240

1

2

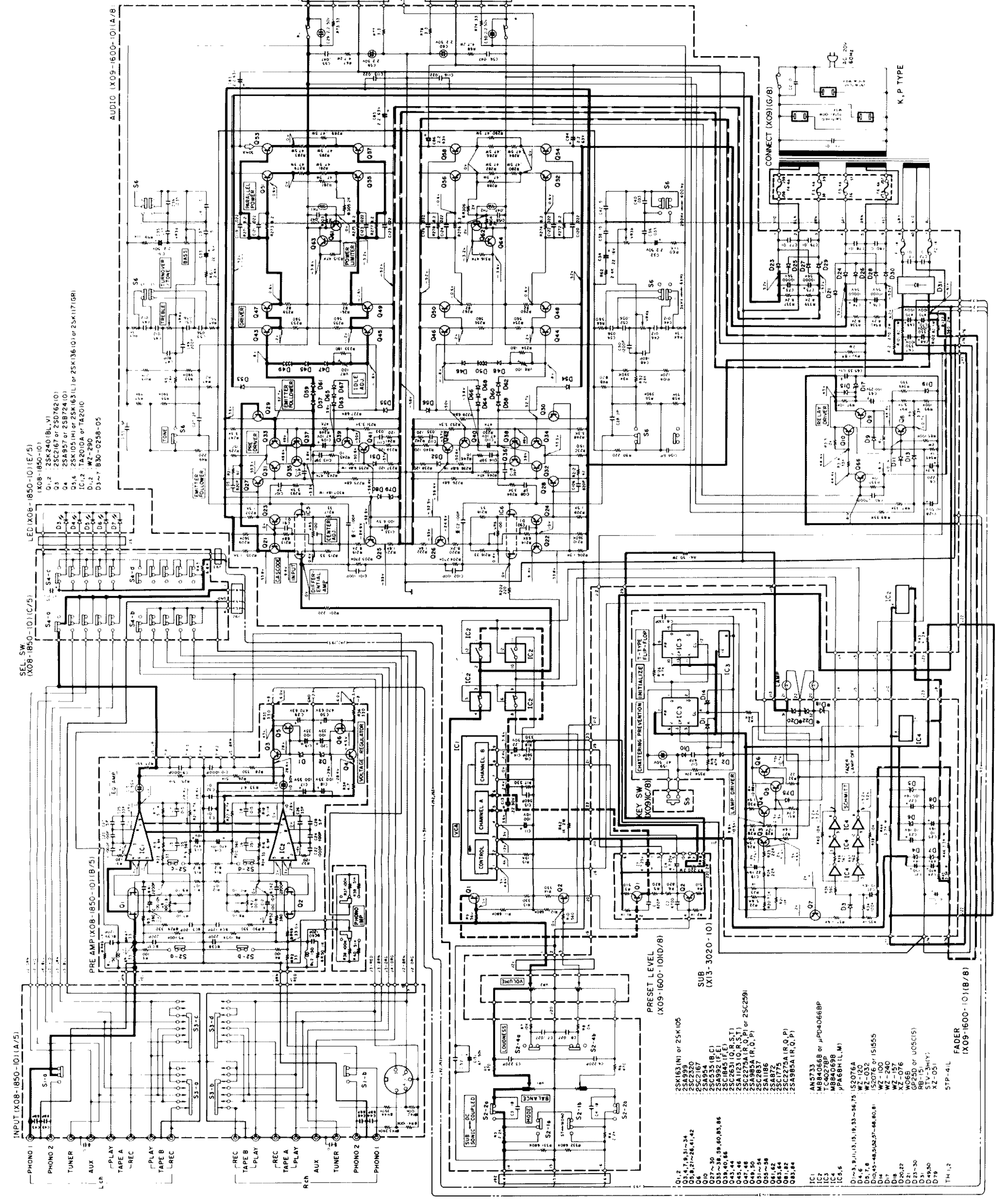
3

4

5

6

PARTS		X09-1600-10	X09-1600
FL2	1A	K	U
D20-22*	Yes		
D18	No		
R233-234	180Ω		
R243-244	47K		
R305	2K		
R306	2K		



INPUT (X08-1850-10)(A/5) PHONO 1 PHONO 2 TUNER AUX TAPE A TAPE B L-REC L-PLAY REC L-PLAY TAPE B TAPE A REC AUX TUNER PHONO 2 PHONO 1

PRE AMP (X08-1850-10)(B/5) S4-C S4-D S4-E S4-F S4-G S4-H S4-I S4-J S4-K S4-L S4-M S4-N S4-O S4-P S4-Q S4-R S4-S S4-T S4-U S4-V S4-W S4-X S4-Y S4-Z

LED (X08-1850-10)(E/5) D1-D4 D5-D8

SEL SW (X08-1850-10)(C/5) S4-0 S4-1 S4-2 S4-3 S4-4 S4-5 S4-6 S4-7 S4-8 S4-9 S4-10 S4-11 S4-12 S4-13 S4-14 S4-15 S4-16 S4-17 S4-18 S4-19 S4-20 S4-21 S4-22 S4-23 S4-24 S4-25 S4-26 S4-27 S4-28 S4-29 S4-30 S4-31 S4-32 S4-33 S4-34 S4-35 S4-36 S4-37 S4-38 S4-39 S4-40 S4-41 S4-42 S4-43 S4-44 S4-45 S4-46 S4-47 S4-48 S4-49 S4-50 S4-51 S4-52 S4-53 S4-54 S4-55 S4-56 S4-57 S4-58 S4-59 S4-60 S4-61 S4-62 S4-63 S4-64 S4-65 S4-66 S4-67 S4-68 S4-69 S4-70 S4-71 S4-72 S4-73 S4-74 S4-75 S4-76 S4-77 S4-78 S4-79 S4-80 S4-81 S4-82 S4-83 S4-84 S4-85 S4-86 S4-87 S4-88 S4-89 S4-90 S4-91 S4-92 S4-93 S4-94 S4-95 S4-96 S4-97 S4-98 S4-99 S4-100

PHONES (X09-1600-10) S9

SPEAKERS (X09-1600-10)(E/8) T TYPE E TYPE U, DE, M, X, H TYPE

RELAY (DRIVER) RELAY (INITIALIZE) RELAY (STOP)

KEY SW (X09-1600-10) S5 S6

PRESET LEVEL (X09-1600-10)(D/8) S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30 S31 S32 S33 S34 S35 S36 S37 S38 S39 S40 S41 S42 S43 S44 S45 S46 S47 S48 S49 S50 S51 S52 S53 S54 S55 S56 S57 S58 S59 S60 S61 S62 S63 S64 S65 S66 S67 S68 S69 S70 S71 S72 S73 S74 S75 S76 S77 S78 S79 S80 S81 S82 S83 S84 S85 S86 S87 S88 S89 S90 S91 S92 S93 S94 S95 S96 S97 S98 S99 S100

SUB (X13-3020-10) S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30 S31 S32 S33 S34 S35 S36 S37 S38 S39 S40 S41 S42 S43 S44 S45 S46 S47 S48 S49 S50 S51 S52 S53 S54 S55 S56 S57 S58 S59 S60 S61 S62 S63 S64 S65 S66 S67 S68 S69 S70 S71 S72 S73 S74 S75 S76 S77 S78 S79 S80 S81 S82 S83 S84 S85 S86 S87 S88 S89 S90 S91 S92 S93 S94 S95 S96 S97 S98 S99 S100

FADER (X09-1600-10)(B/8) S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30 S31 S32 S33 S34 S35 S36 S37 S38 S39 S40 S41 S42 S43 S44 S45 S46 S47 S48 S49 S50 S51 S52 S53 S54 S55 S56 S57 S58 S59 S60 S61 S62 S63 S64 S65 S66 S67 S68 S69 S70 S71 S72 S73 S74 S75 S76 S77 S78 S79 S80 S81 S82 S83 S84 S85 S86 S87 S88 S89 S90 S91 S92 S93 S94 S95 S96 S97 S98 S99 S100

DC voltages are measured by a VOM with 20 kΩ/V ii

No other than TC4027BP is to be used for IC3.

KA-90