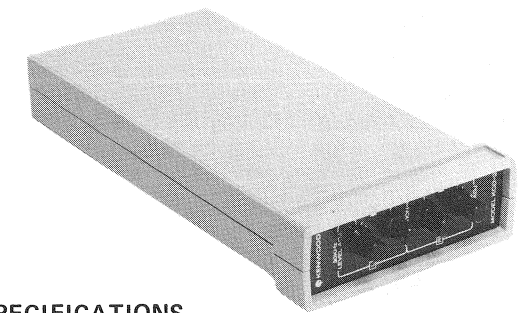
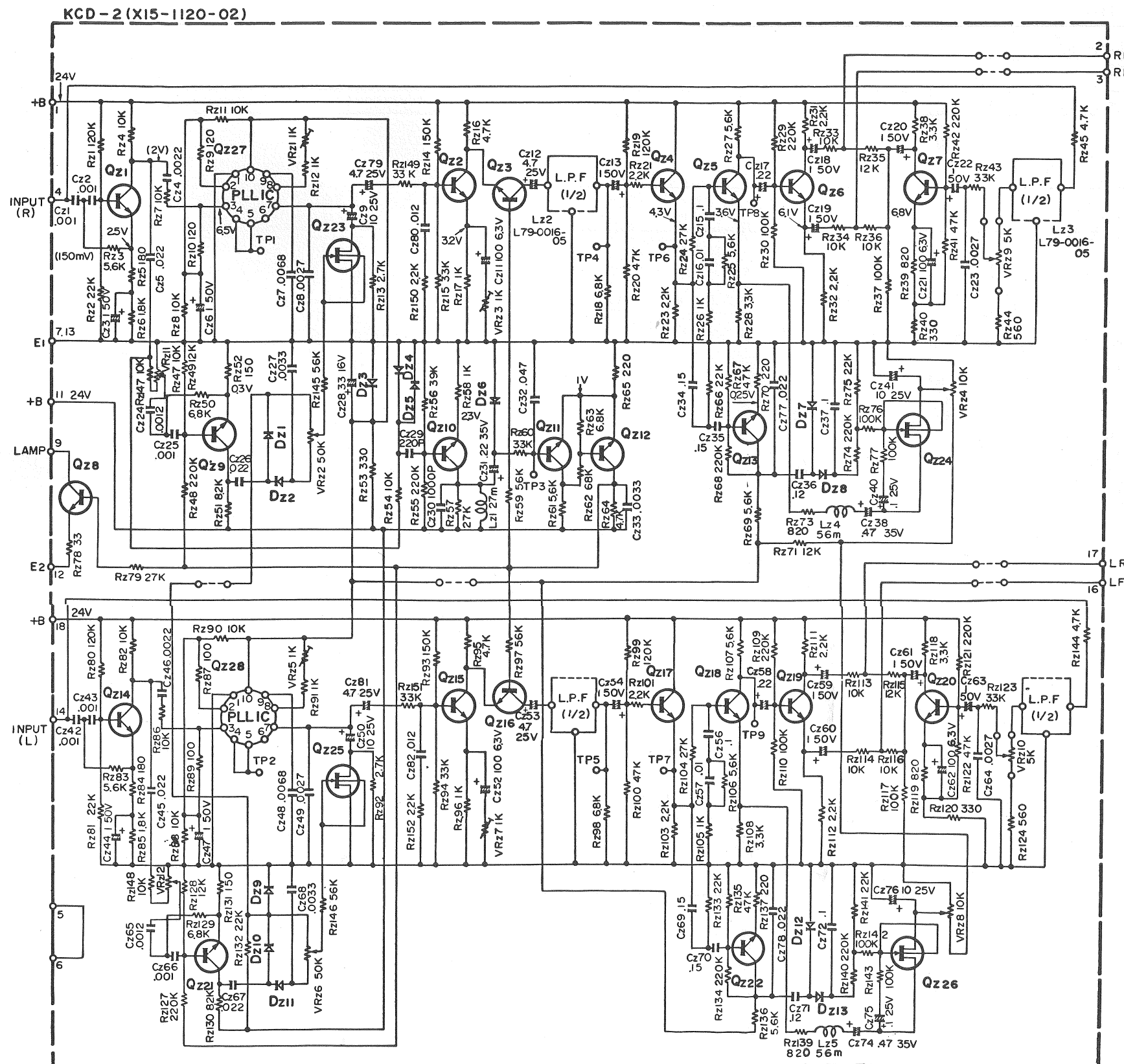


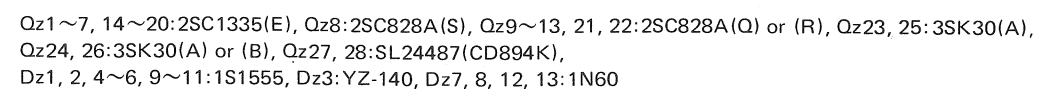


SPECIFICATIONS

KCD-2 is available to KR-6340, KR-7340, KR-8340 and KR-9340.

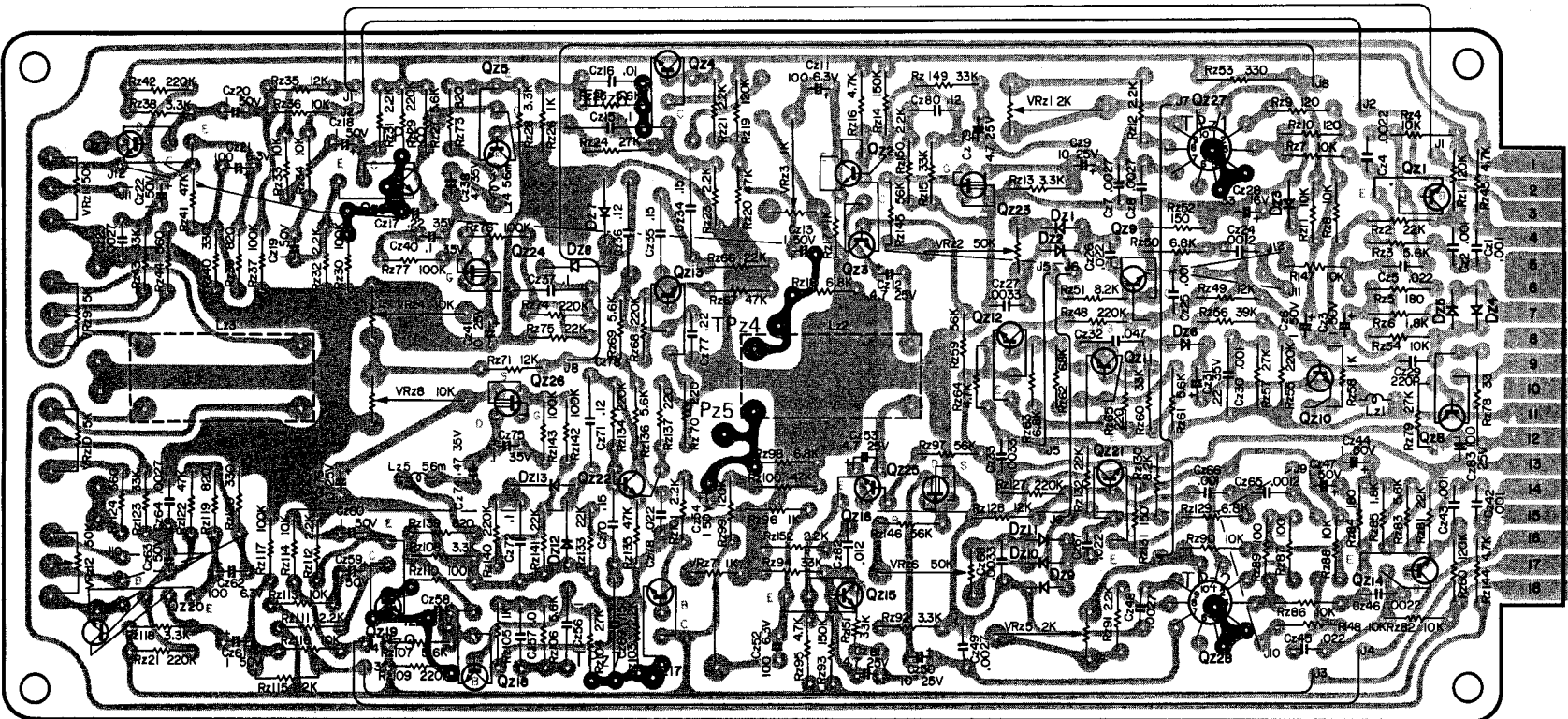
Type	Plug-in type
Supply Voltage	D. C. 24 V.
Current Consumption	70 mA.
Frequency Response	20 Hz ~ 16,000 Hz
Phono Input Level	1.2 mV ~ 5 mV at 1 kHz (3.54 cm/sec), 1.0 mV ~ 7 mV at 30 kHz (3.54 cm/sec).
Separation	
Between Left-Front and Left-Rear	More than 25 dB at 1,000 Hz.
Between Right-Front and Right-Rear	More than 25 dB at 1,000 Hz.
Between Left-Front and Right-Front	More than 50 dB at 1,000 Hz.
Between Left-Rear and Right-Rear	More than 50 dB at 1,000 Hz.
General	
Front-Rear Separation Adjust V.R.	Left, Right.
30 kHz Carrier Level Adjust V.R.	Left, Right.
Accessory	CD-4 TEST RECORD (7").
Weight (Net)	1 lb (450 g).





PC BOARD

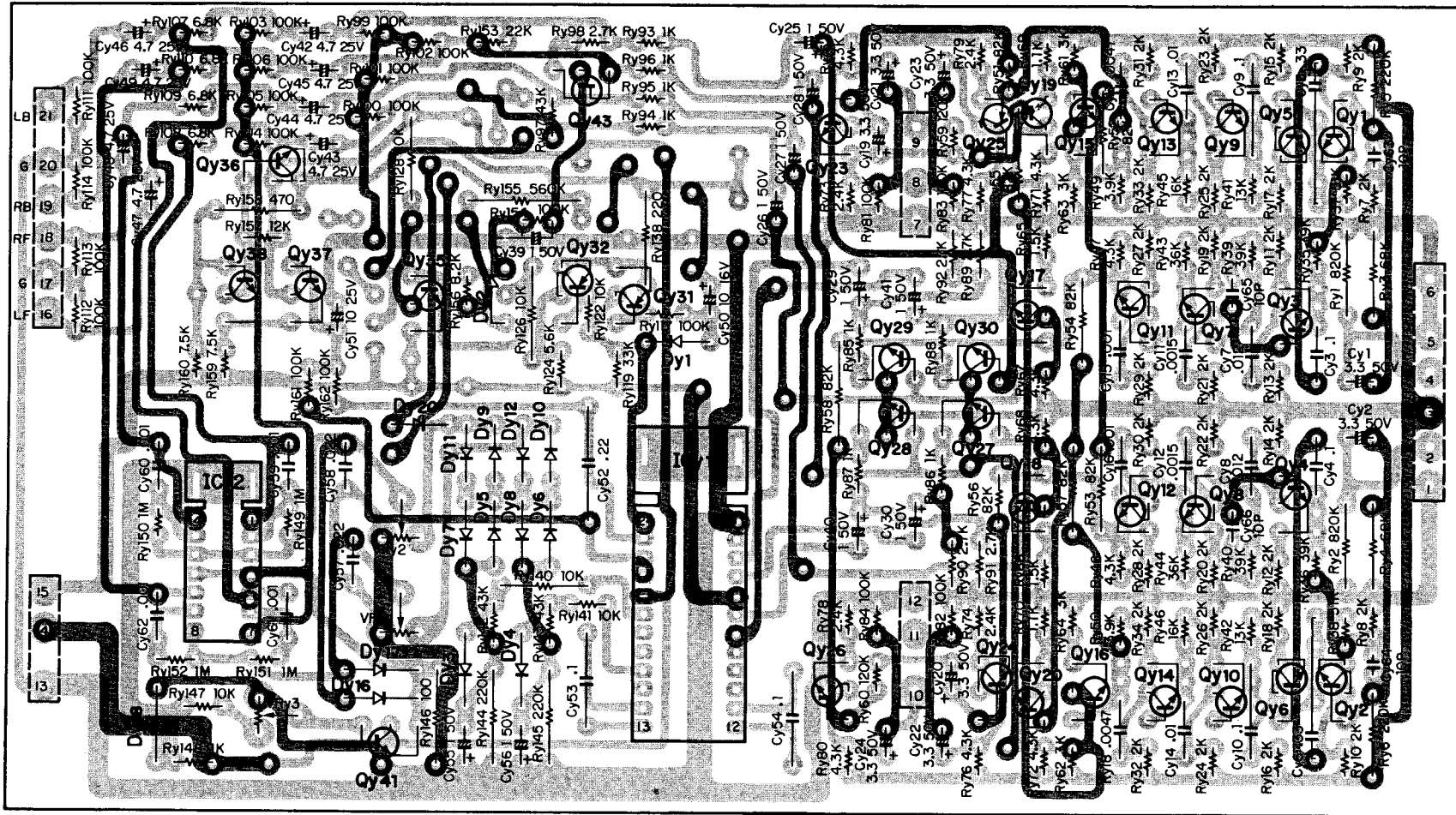
▼ CD-4 (X15-1120-06)



Qz1 ~ 7, 14 ~ 20: 2SC1335(E) Qz8: 2SC828A(S) Qz9 ~ 13, 21, 22: 2SC828A(Q) or (R) Qz23, 25: 3SK30(A) Qz24, 26: 3SK30(A) or (B)
Qz27, 28: SL24487 Dz1, 2, 4 ~ 6, 9 ~ 11: 1S1555 Dz3: YZ-140 Dz7, 8, 12, 13: 1N60

PC BOARD

▼ SCLRM (X15-1170-00)



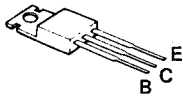
Qy1 ~ 18, 20, 23, 24, 26 ~ 30, 35 ~ 38, 41: 2SC1345(D) or (E) Qy19, 25, 31, 32: 2SA733 (Q) or (R) Qy43: 2SK40(C) or (D) ICy1: CX-049
 ICy2: CX-718 Dy1 ~ 12, 20: 1S2076 Dy16 ~ 18: FQA01-08

SEMICONDUCTOR SUBSTITUTIONS

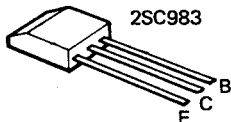
SEMICONDUCTOR NAME	SUBSTITUTIONS
POWER SUPPLY (X00-1590-10) 2SA755(B) or (C) 2SC789(O) or (R) 2SC1000(BL) 2SC1419(B) or (C)	2SA489(O) or (R) 2SC1061 2SC1345(E) 2SC1061, 2SD234
TUNER (X05-1080-15) 2SA733(Q) or (R) 2SC381(R) 2SC458(D) 2SC460(B) 2SC535(B) 2SC785(R) 2SC945(Q) or (R) 2SC1213A(C) 2SK19(GR) or (BL) TA7060P	2SA620WL(4) or (5) 2SC380, 2SC460, 2SC535, SE-3001 2SC1000(GR), 2SC1345(D) — 2SC381(R) — — 2SC734(Y), 2SC984(C) 3SK30(B) or (C) —
MAIN AMP (X07-1230-13) 2SA620WL(4) or (5) 2SB536(L) or (M) 2SC983 (O) 2SD381(L) or (M)	2SA493(GR) 2SA653(L) or (M) 2SC1451(G), (B) or (V) 2SC1161(L) or (M)
PREAMP (X08-1180-00) 2SC1416(GR) or (BL) 2SC1416A(GR)	2SC1000(GR) or (BL), 2SC1345(D) or (E) 2SC1000(GR) or (BL), 2SC1345(D) or (E)

SEMICONDUCTOR NAME	SUBSTITUTIONS
TONE AMP (X11-1130-00) 2SC1345(D) or (E)	2SC1000(GR) or (BL), 2SC1416
POWER SUPPLY & PROTECTION (X13-1560-10) 2SA673A(C) 2SC789(O) or (R) 2SC1000(BL) 2SC1213A(C) 2SC1416(GR) 2SC1451(G) or (B)	2SA743A(C) 2SC1061 (B) or (C) 2SC1000(E), 2SC1416A(BL) 2SC743, 2SC984, 2SC1212A 2SC1000(BL), 2SC1345(E) 2SC983(O) or (Y)
PUSHBUTTON SW (X13-1570-11) 2SC1345(D) or (E)	2SC1000(GR) or (BL), 2SC1416
CD-4 (X15-1120-06) 2SC828A(Q) or (R) 2SC828A(S) 2SC1335(E) 3SK30(A) or (B) 3SK30(A) SL-24487 (CD-894K)	2SC1000(GR) or (Y) 2SC1000(GR), 2SC1345(D) 2SC1000(BL), 2SC1345(E) — — —
SQ/RM (X15-1170-00) 2SA733(Q) or (R) 2SC1345(D) or (E) 2SK40(C) or (D) CX-049 CX-718	2SA620WL(4) or (5) 2SC1000(GR) or (BL) 2SK30(Y) or (GR) — —

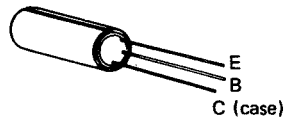
2SB536
2SD381



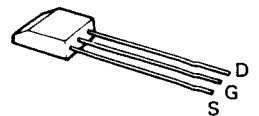
2SA673A
2SC1213A
2SC983



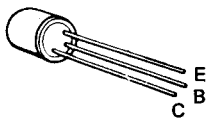
2SC1451



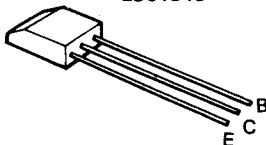
2SK40



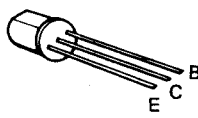
2SC1416



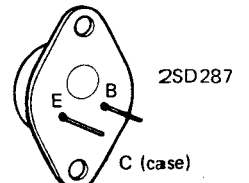
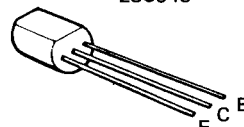
2SC458
2SC460
2SC535
2SC1335
2SC1345



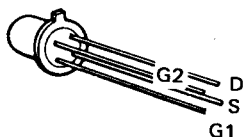
2SC381R
2SC785R
2SC1000



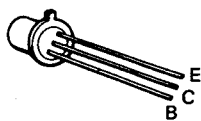
2SA733
2SC828A
2SC945



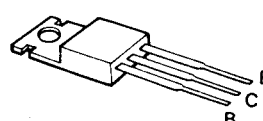
3SK30



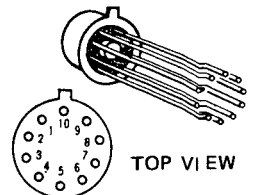
2SA620WL

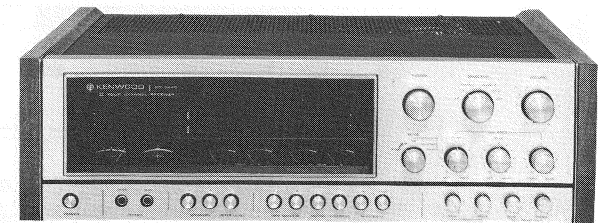


2SA755
2SC1419
2SC789



SL-24487





SPECIFICATIONS

FM TUNER SECTION

Usable Sensitivity (IHF)	1.8 μ V (1.9 μ V)
Quieting Slope	5 μ V 50 dB KR-9940 only
Frequency Response	20 Hz ~ 15,000 Hz $\pm$ 1.2 dB
Harmonic Distortion	0.5% Mono (at 400 Hz 100% modulation) 0.8% Stereo (at 400 Hz 100% modulation)
Signal to Noise Ratio	63 dB at 1 mV input
Image Rejection	60 dB
Selectivity (IHF ALT channel)	50 dB
IF Rejection	90 dB
Spurious Signal Rejection	90 dB
AM Suppression	60 dB
Capture Ratio	30 dB
Stereo Separation	40 dB at 1,000 Hz 20 dB at 10,000 Hz
Sub Carrier Suppression	45 dB
Antenna Impedance	300 ohms Balanced and 75 ohms Unbalanced

AM TUNER SECTION

Usable Sensitivity (IHF)	25 μ V
Signal to Noise Ratio	45 dB at 1 mV input
Image Rejection	45 dB
Selectivity (IHF)	30 dB
IF Rejection	35 dB
Antenna	Built-in ferrite bar antenna External antenna terminals

POWER AMPLIFIER SECTION

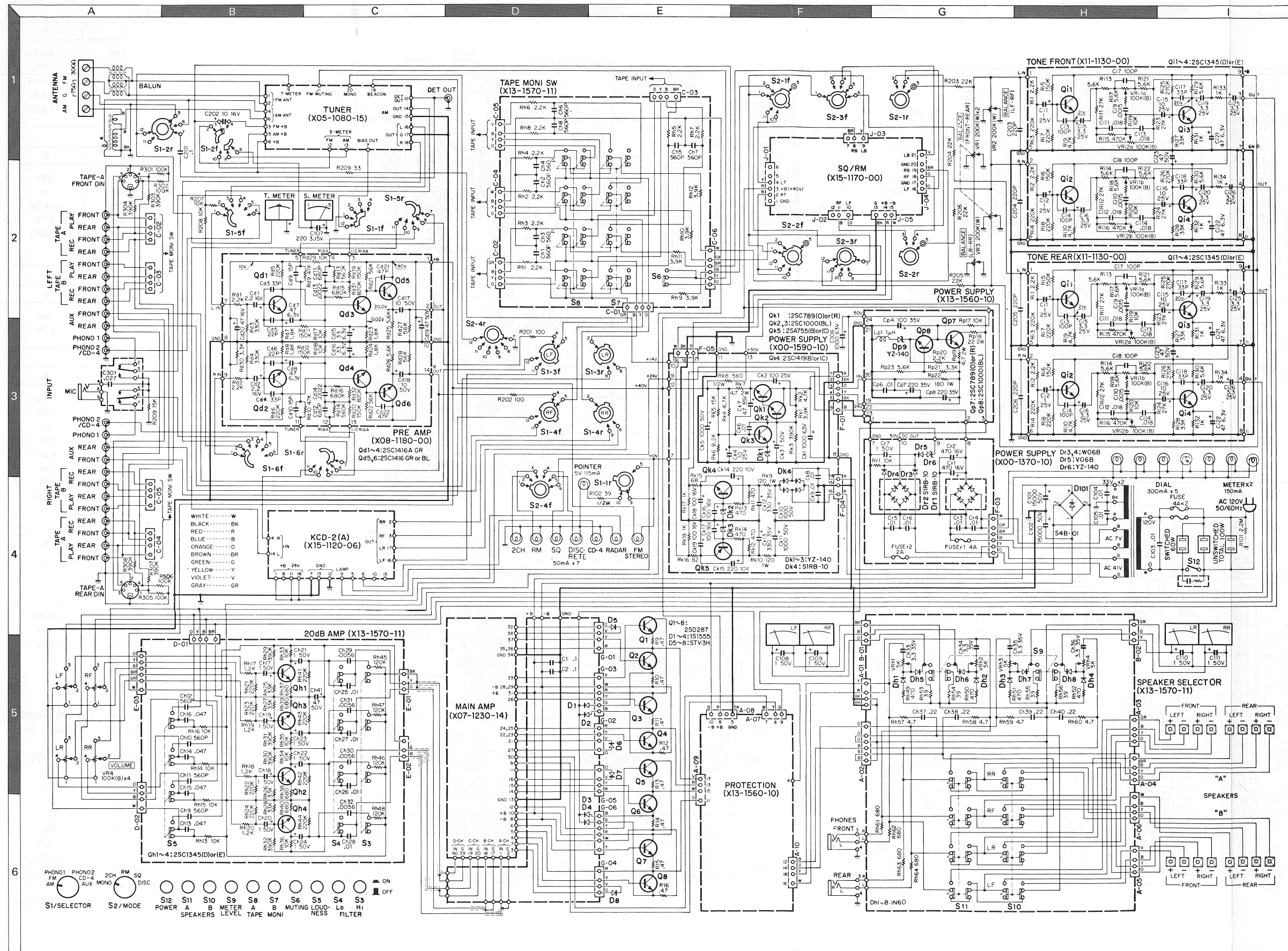
RMS Power Output 4 channels driven	50 watts x 4 into 8 ohms at 20 Hz ~ 20,000 Hz 52 watts x 4 into 8 ohms at 1,000 Hz 58 watts x 4 into 4 ohms at 1,000 Hz 340 watts into 8 ohms 440 watts into 4 ohms
Dynamic Power Output	440 watts into 4 ohms
Total Harmonic Distortion	0.5% at rated power into 8 ohms 0.1% at 1/2 rated power into 8 ohms at 1,000 Hz
Inter Modulation Distortion (60 Hz : 7 kHz = 4 : 1)	0.5% at rated power into 8 ohms 0.1% at 1/2 rated power into 8 ohms
Power Bandwidth	10 Hz ~ 45,000 Hz
Damping Factor	30 at 8 ohms
Speaker Impedance	Accept 4 ohms to 16 ohms

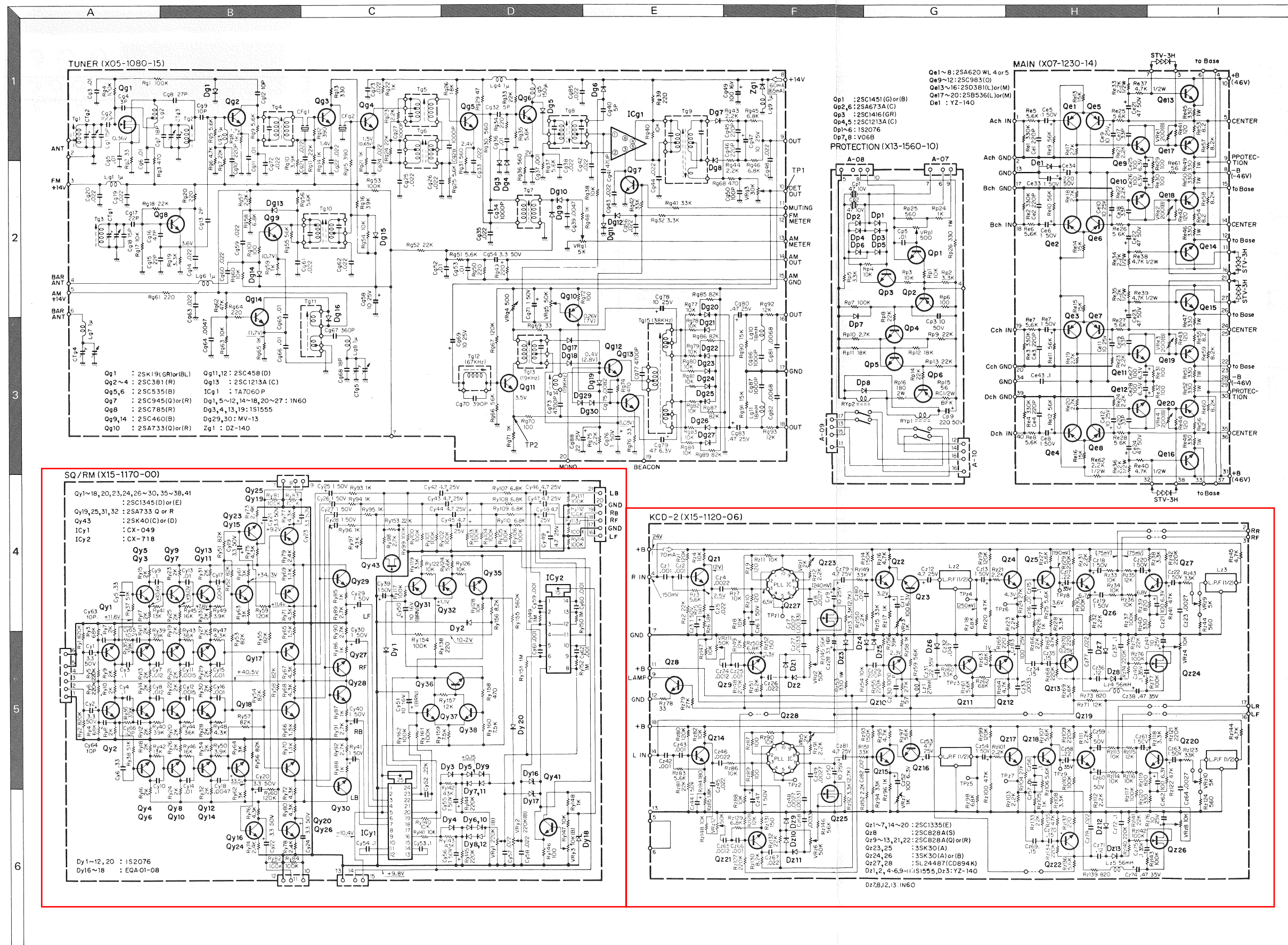
PRE-AMPLIFIER SECTION

Input Sensitivity and Impedance	
Phono 1	2.0 mV 100 K ohms
Phono 2	2.0 mV 100 K ohms
AUX	200 mV 50 K ohms
Tape Play A, B	200 mV 50 K ohms
Mic	2.5 mV 50 K ohms
Maximum Input Voltage (rms)	
Phono 1, 2	120 mV T.H.D. 0.5% at 1,000 Hz
Signals to noise Ratio (IHF A CURVE)	
Phono 1, 2	70 dB
AUX	80 dB
Tape Play A, B	80 dB
Mic	70 dB
Output Voltage and Impedance	
Tape Rec. A, B (pin) (Din connector)	200 mV 100 ohms 40 mV
Frequency Response	
Phono 1, 2	RIAA Standard curve $\pm$ 1.0 dB
AUX, Tape Play	20 Hz ~ 20,000 Hz $\pm$ 1.0 dB
Tone Control	
Bass	$\pm$ 10 dB at 100 Hz
Treble	$\pm$ 10 dB at 10,000 Hz
Loudness Control (-30 dB)	+8 dB at 100 Hz +6 dB at 10,000 Hz -9 dB -9 dB
Low Filter 100 Hz	
High Filter 10,000 Hz	

GENERAL

Switches	
Speaker Selector	A, B (push switch)
Input Selector	AM, FM, PHONO 1, PHONO 2, CD-4, AUX
Mode	MONO, 2 CH, RM, SQ LOGIC, DISCRETE
Tape Monitor	A, B (A $\rightarrow$ B DUBBING)
Others	MUTING, LOUDNESS, LOW FILTER, HIGH FILTER
AC Outlets	Switched 1, Unswitched 2
Power Consumption	730 watts at full power 61 watts at no signal
Dimension	W 21-1/32" (534 mm), H 6-3/8" (162 mm.) D 14-5/32" (360 mm)
Weights	46.2 lbs (21 kg)





VOLTAGE TABLE

X00-1590-10			
	E	C	B
Qk1	42V	59V	42.5V
Qk1	43V	59V	43V
Qk3	14V	43V	14.6V
Qk4	14V	36V	14.5V
Qk5	14V	-38V	-14.5V
X07-1230-13, -14			
	E	C	B
Qe1~4	.65V	-42V	.08V
Qe5~8	.65V	-42V	.1V
Qe9~12	-41V	-.55V	-41V
Qe13~16	.65V	-44V	1.1V
Qe17~20	.08V	-44V	-.55V
De1	14.6V		
X11-1130-00			
	E	C	B
Qi1,2	17V	30V	16V
Qi3,4	2.4V	16V	2.7V
X13-1560-10			
	E	C	B
Qp1	-44.5V	26V	-45V
Qp2	26V	0V	26V
Qp3	0V	26V	0V
Qp4	5V	15V	0V
Qp5	5V	5V	5.4V
Qp6	24V	23V	24V
Qp7	24V	58V	25V
Qp8	14V	24V	14.5V
X13-1570-10			
	E	C	B
Qh1~4	2.3V	7V	2.7V
X07-1230-13, -14			
No. 1	0V	No. 21	-.54V
No. 2	0V	No. 22	-44V
No. 3	0V	No. 23	-44V
No. 4	-44V	No. 24	0V
No. 5	.08V	No. 25	0V
No. 6	.67V	No. 26	.6V
No. 7	1.21V	No. 27	1.1V
No. 8	-46V (-40V)	No. 28	-46V (-40V)
No. 9	0V	No. 29	-46V (-40V)
No. 10	46V (40V)	No. 30	0V
No. 11	1.4V	No. 31	46V (40V)
No. 12	.65V	No. 32	1.2V
No. 13	0V	No. 33	.65V
No. 14	0V	No. 34	0V
No. 15	-44V	No. 35	0V
No. 16	-48V	No. 36	0V
No. 17	0V	No. 37	-44V
No. 18	0V	No. 38	-.5V
No. 19	0V	No. 39	0V
No. 20	0V	No. 40	0V

() : X07-1230-13