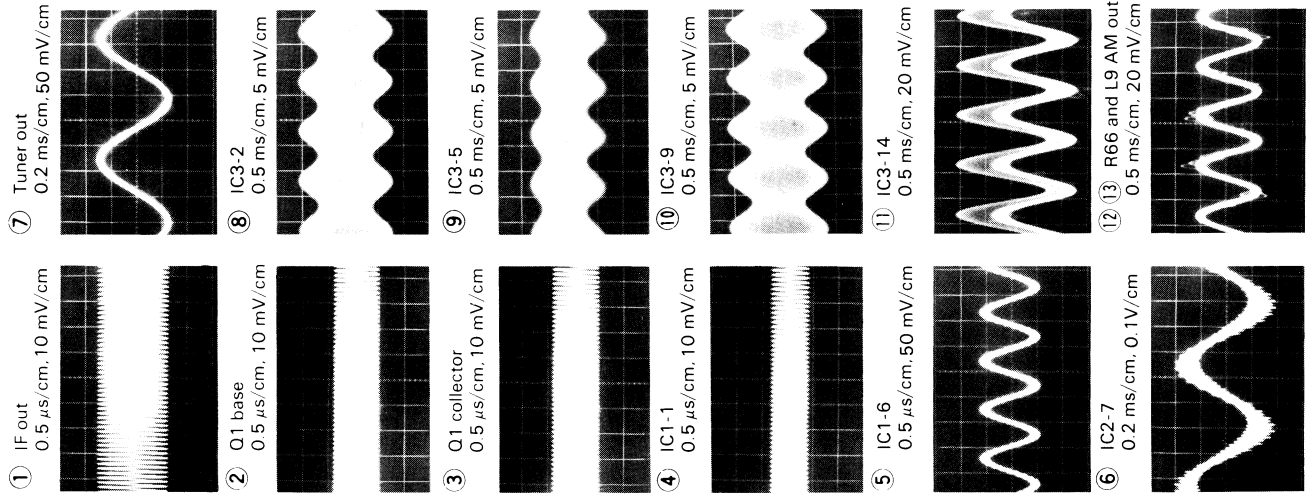


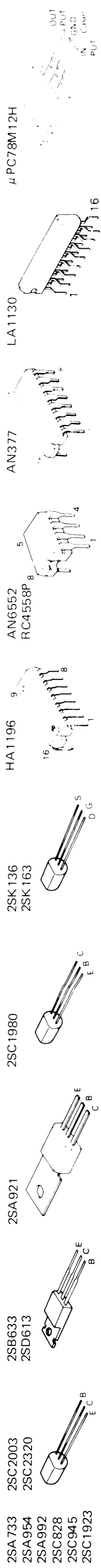
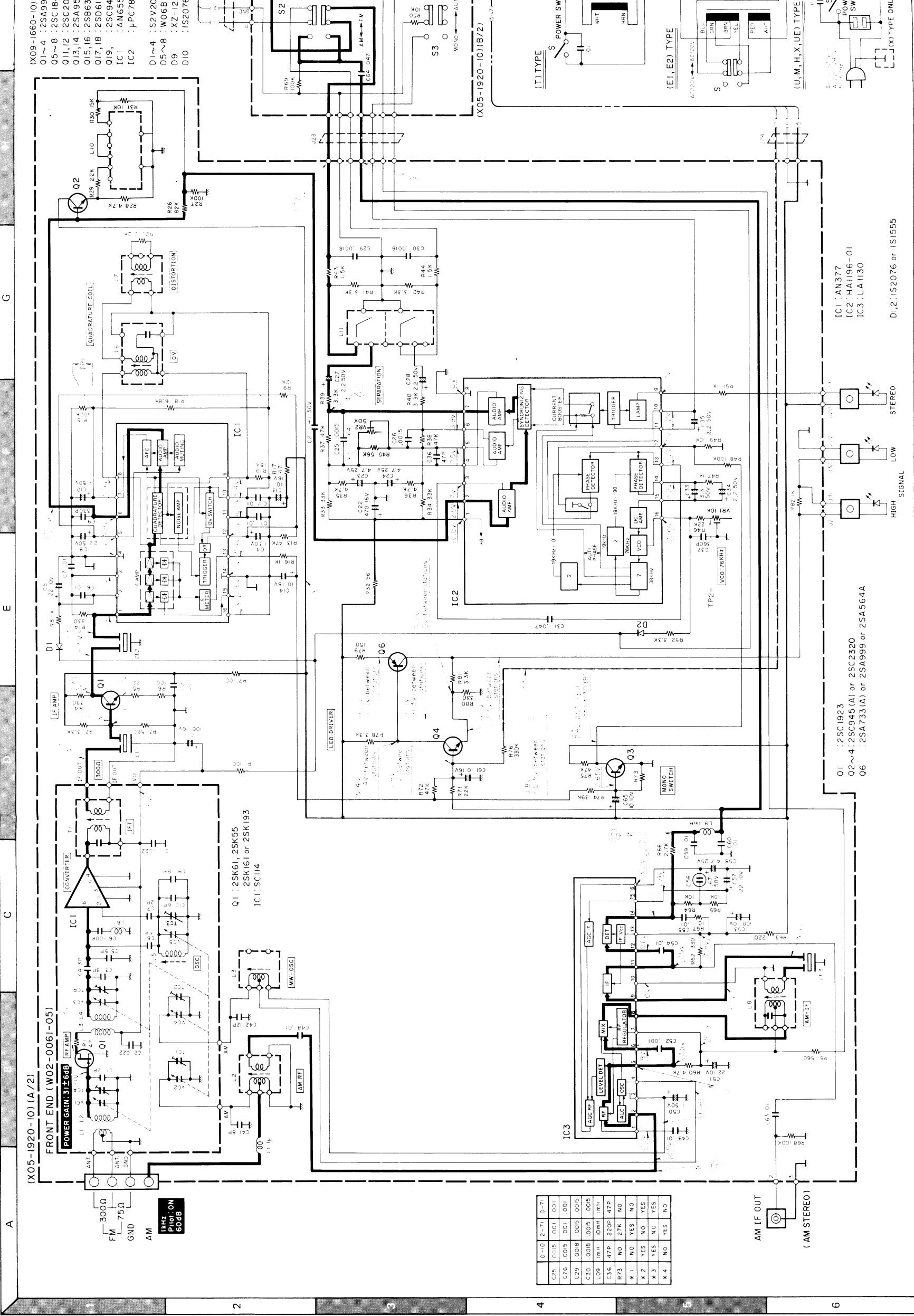
WAVEFORMS AT CHECK POINTS



AM-FM



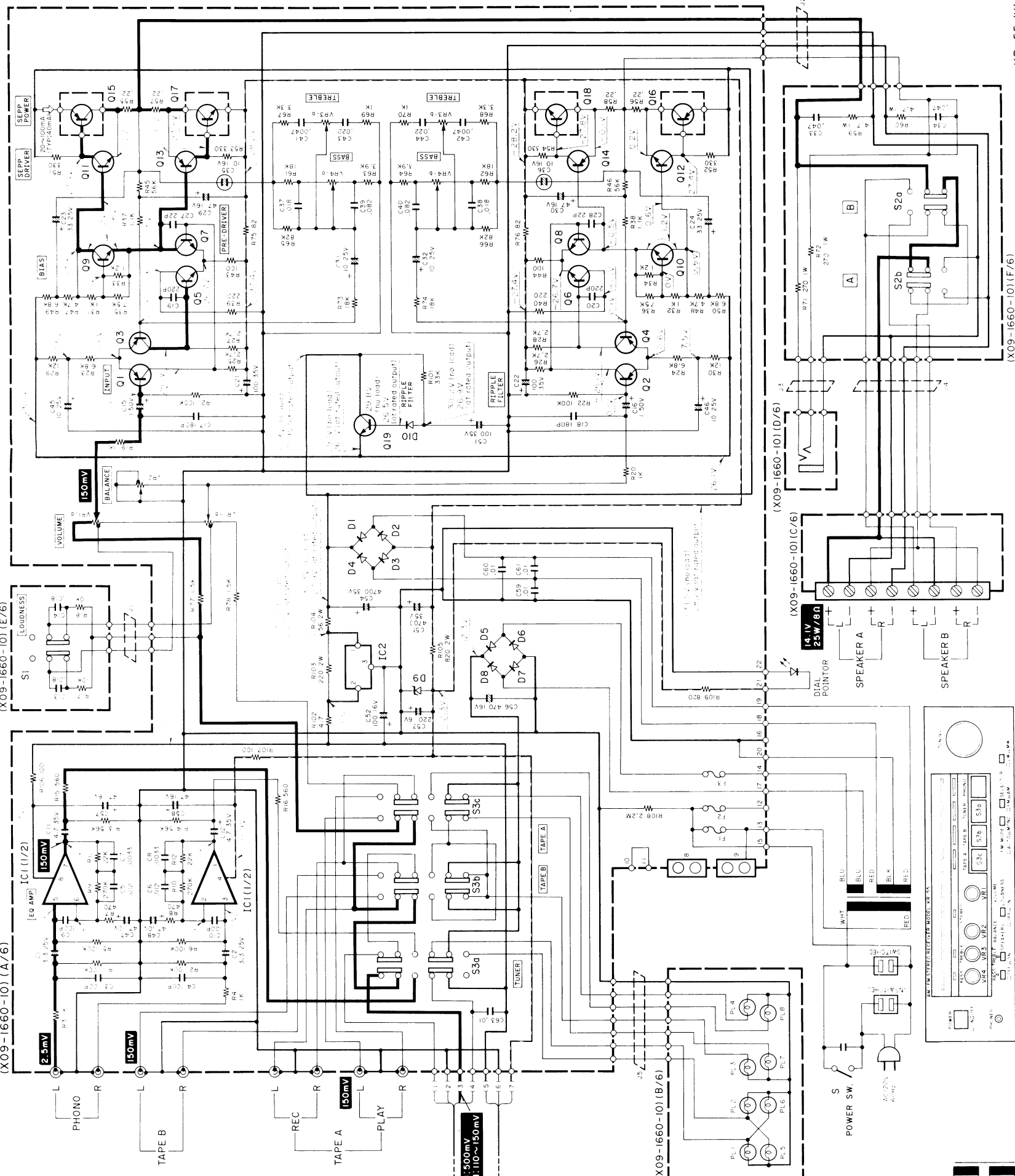
SEMICONDUCTOR SUBSTITUTIONS	
NAME	SUBSTITUTIONS
X09-166	2SC1775
Q5 ~ 8	2SC1735
Q11, 12	2SA850
Q13, 14	2SB690 (C)
Q15, 16	2SD726 (C)
Q17, 18	Zener voltage: 12V
D9	NJM4558
IC1	



AM-FM STEREO RECEIVER

KR-55

(X09-1660-10) (A/6)
Q1~4 : 2SA992 or 2SA921
Q5~8 : 2SC1845(F,E,U) or 2SC1980(S,T,U)
Q11,12 : 2SC2003 Q9,10 : 2SC1845(E,U)
Q13,14 : 2SA954
Q15,16 : 2SB633
Q17,18 : 2SD613
Q19 : 2SC945(A) or 2SC828A or 2SC2320
IC1 : AN6552 or μ PC4558C or RC4558P
IC2 : μ PC78L12
D1~4 : S2V20*1 or GP20DL
DS~8 : W06B
D9 : XZ-122
D10 : IS2076



SPECIFICATIONS

POWER AMPLIFIER SECTION

Power Output
28 watts* per channel minimum RMS, both channels driven at 8 ohms from 40 Hz to 20,000 Hz with no more than 0.09% total harmonic distortion.

Both Channels Driven
Into 8 ohms at 1,000 Hz
Dynamic Power Output at 4 ohms
Total Harmonic Distortion (40 Hz to 20 kHz from AUX)
rated power into 8 ohms
1 watt power into 8 ohms
Intermodulation Distortion (60 Hz, 7 kHz, 4 1 SMPTE)
rated power into 8 ohms
Damping Factor
Input Sensitivity Impedance
PHONO
TAPE, AUX
Signal to Noise Ratio (A weighted)
PHONO

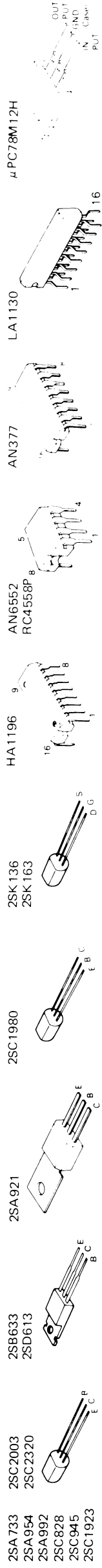
TAPE, AUX
Maximum PHONO Input Level
at 1,000 Hz
Frequency Response
PHONO RIAA Standard Curve
TAPE, AUX
Tone Control
BASS
TREBLE
Loudness Control (VOL. 30 dB)
Output Level Impedance
TAPE REC Out (Pin)

FM TUNER SECTION
Usable Sensitivity
50 dB Quieting Sensitivity
Mono
Stereo
Signal to Noise Ratio at 65 dBf
Mono
Stereo
Total Harmonic Distortion at 1,000 Hz
Mono
Stereo
Frequency Response
Capture Ratio
Image Rejection Ratio
Spurious Response Ratio
IF Response Ratio
Alternate Channel Selectivity
AM Suppression Ratio
Stereo Separation Ratio
Subcarrier Product Ratio
Antenna Impedance
FM Frequency Range

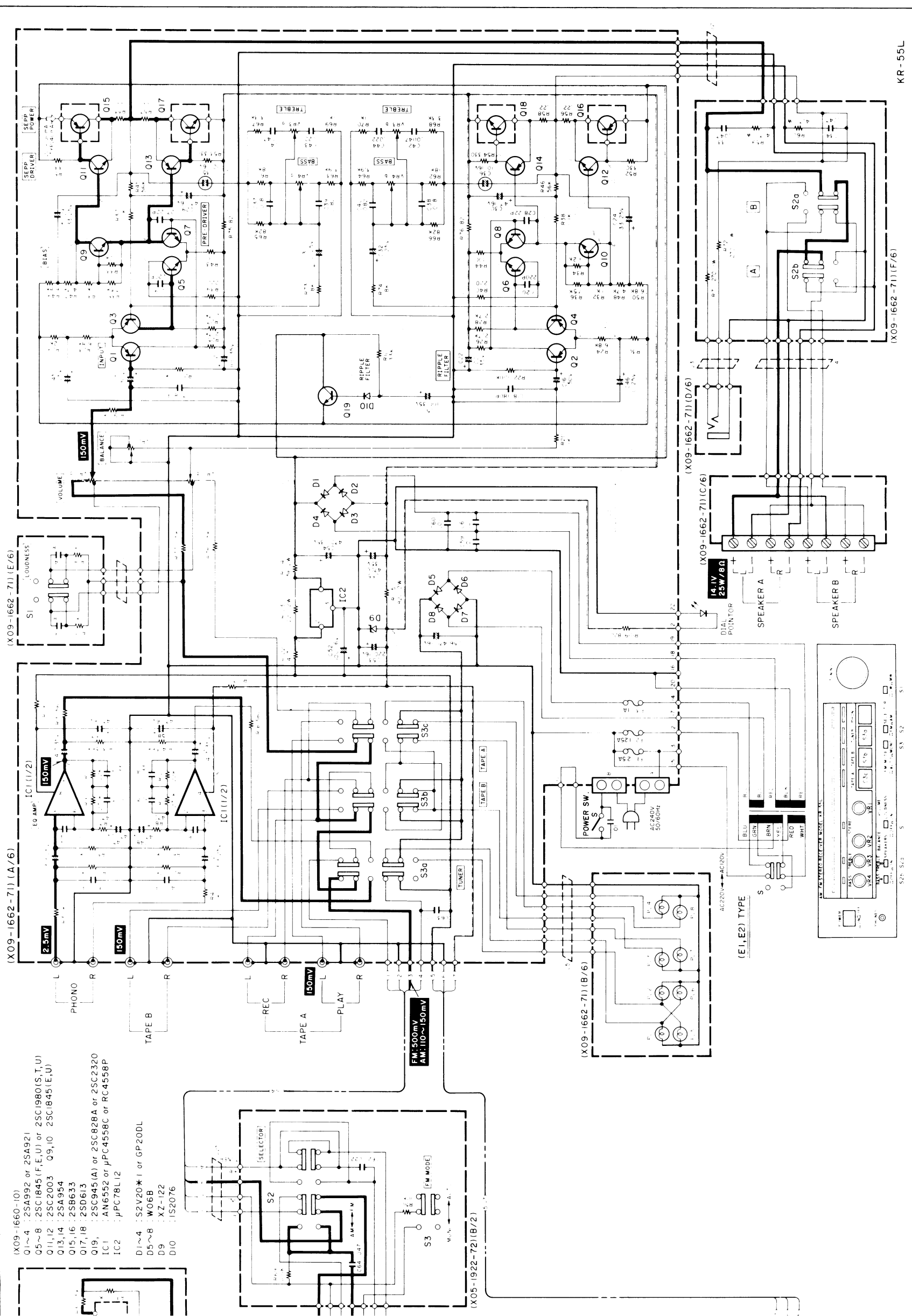
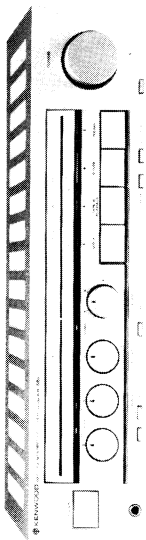
AM TUNER SECTION
Usable Sensitivity
Signal to Noise Ratio
Image Rejection
Selectivity
GENERAL
Power Consumption

AC Outlets
Dimensions
Weight (Net)
(Gross)

* Measured with a VOM of 25 k Ω /V input impedance.



SEMICONDUCTOR SUBSTITUTIONS	
NAME	SUBSTITUTIONS
XO9-166	2SC1775
Q5 ~ 8	2SC1735
Q11, 12	2SA850
Q13, 14	2SB690 (C)
Q15, 16	2SD726 (C)
Q17, 18	Zener voltage: 12V
D9	4558
IC1	NJM4558



- (X09-1660-10)
Q1~4 : 2SA992 or 2SA921
Q5~8 : 2SC1845 (F,E,U) or 2SC1980 (S,T,U)
Q11,12 : 2SC2003 Q9,10 : 2SC1845 (E,U)
Q13,14 : 2SA954
Q15,16 : 2SB633
Q17,18 : 2SD613
Q19 : 2SC945 (A) or 2SC828A or 2SC2320
IC1 : AN6552 or μ PC4558C or RC4558P
IC2 : μ PC78L12
D1~4 : 5ZV20*1 or GP20DL
D5~8 : W06B
D9 : XZ-122
D10 : IS2076

SPECIFICATIONS

AUDIO SECTION

Rated Power Output
8 ohms at 40 Hz to 20 kHz
no more than 0.09% T.H.D. (FTC)
4 ohms at 63 Hz to 12.5 kHz
no more than 0.7% T.H.D. (IEC)
Total Harmonic Distortion
Rated Power Output into 8 ohms
Intermodulation Distortion
Frequency Response
10 Hz ~ 100 kHz
+0 dB -3 dB

S/N Weighted: Rated Output Power (IEC-A)
() = Unweighted, at 50 mV (DIN)

Phono
Tape, Aux
Damping Factor at 8 ohms, 1 kHz
Input Sensitivity Impedance
Phono
Tape, Aux
Tone Control
Bass 100 Hz
Treble 10 kHz
Loudness Control (-30 dB)
2.5 mV/50 k Ω
150 mV/50 k Ω
+8 dB
+8 dB
+10 dB at 100 Hz

FM TUNER SECTION

Sensitivity at 75 ohms
Mono: S/N 26 dB, 40 kHz Dev.
Stereo: S/N 46 dB, 46 kHz Dev.
Limiting Level
-3 dB Point, 40 kHz Dev.
Frequency Response
Total Harmonic Distortion
Mono: 1 kHz, 40 kHz Dev.
Stereo: 1 kHz, 46 kHz Dev.
S/N Weighted (IEC-A)
Mono: 40 kHz Dev., 1 mV Input
Stereo: 46 kHz Dev., 1 mV Input
S/N Ratio (IHF)
Mono: 75 kHz Dev., 1 mV Input
Stereo: 75 kHz Dev., 1 mV Input
FM Stereo Separation: 1 mV Input (DIN)
250 Hz
1 kHz
6.3 kHz
12.5 kHz
Image Rejection Ratio
Selectivity
300 kHz, 20 dB Input
IF Rejection Ratio
AM Suppression Ratio
Spurious Response Ratio
Capture Ratio

MW TUNER SECTION

Sensitivity S/N 20 dB
S/N Ratio: 1 mV Input
Image Rejection Ratio

LW TUNER SECTION

Sensitivity S/N 20 dB
S/N Ratio: 1 mV Input
Image Rejection Ratio

GENERAL

Power Consumption
Rated Power at 8 ohms
No signal
Dimensions
Weight (net)

120W
22W
H 440 mm
W 190 mm
D 250 mm
5.2 kg

