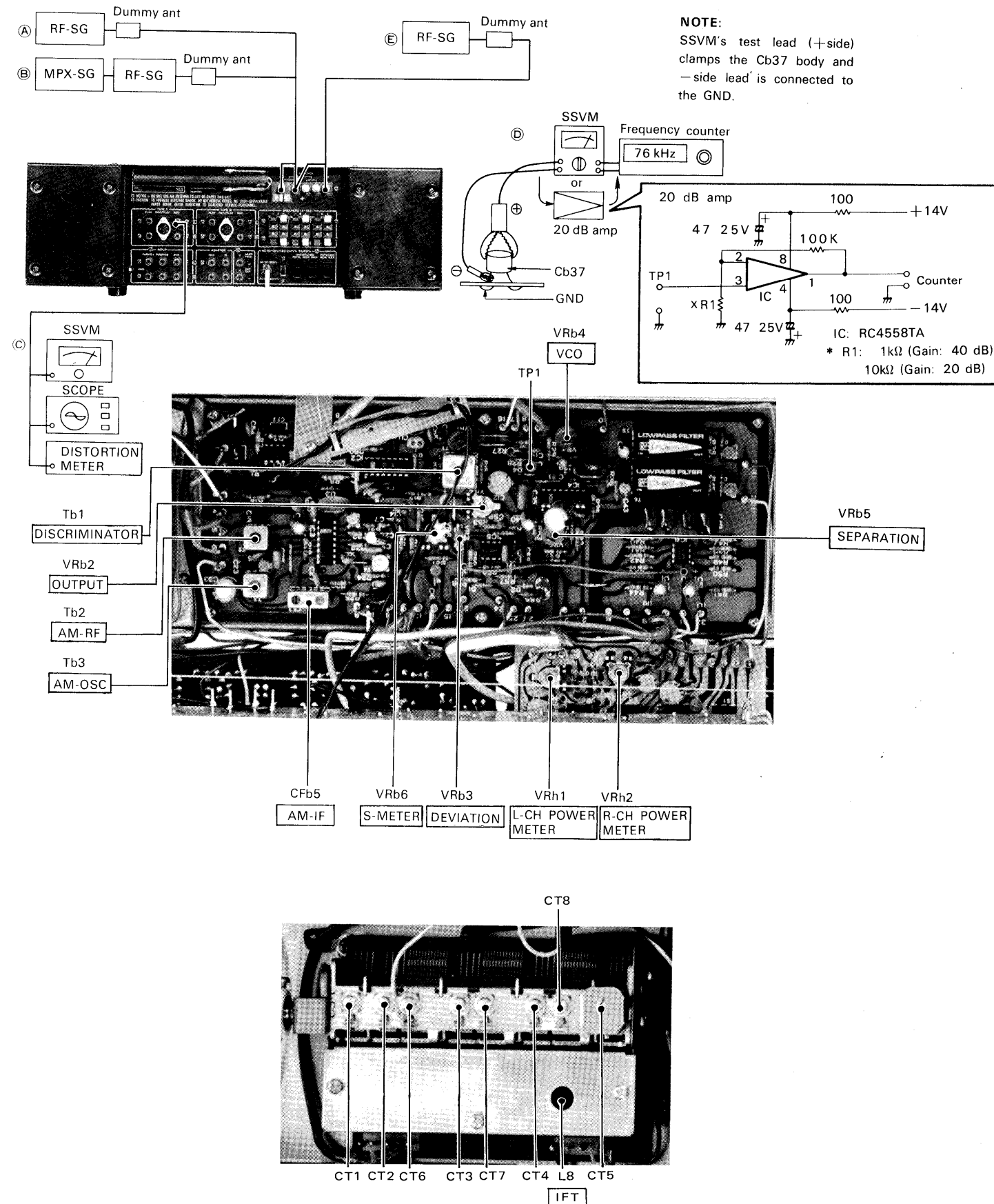


ADJUSTMENTS

Notes:

- * As for the specifications of Test Equipment, see page 40.
- * RF-SG is set to the lowest response possible on oscilloscope.
- * The output level of RF-SG is made a 6 dB drop by the dummy ant.
- * The input level 60 dB means 66 dB reading on RF-SG.
- * Repeat TRACKING adjustment several times and confirm the reception of broadcasting.
- * Test point is shown in the schematic diagram.

NO.	ALIGNMENT	TEST EQUIPMENT		RECEIVER SETTING	OUTPUT INDICATOR	ADJUSTMENT	REMARKS
		CONNECTION	SETTING				
FM SECTION							
1	IF	(A)	95 MHz (60 dB) 1 kHz (Mod) 75 kHz (Dev)	95 MHz	(C)	L8	Maximum deflection
2		—	—	—	T-meter	Tb1 (bottom)	Make the pointer position in the center of the meter
3		(A)	95 MHz (60 dB) 1 kHz (Mod) 75 kHz (Dev.)	95 MHz	(C)	Tb1 (top)	Maximum deflection and minimum distortion
4	TRACKING	(A)	90 MHz 1 kHz (Mod) 75 kHz (Dev)	90 MHz	(C)	L1 ~ 7*	Maximum deflection
5		(A)	105 MHz 1 kHz (Mod) 75 kHz (Dev)	105 MHz	—	—	
6	OUTPUT	(A)	95 MHz 1 kHz (Mod) 75 kHz (Dev) 60 dB (Input)	95 MHz	(C)	VRb2	Confirm output voltage is 700 mV
7	S-METER	(A)	95 MHz 0 (Dev) 60 dB	95 MHz	S-meter	VRb6	Make the pointer indication "5" digit
8	VCO	(A)	95 MHz 0 (Dev) 60 dB	95 MHz	(D)	VRb4	Counter indicates 76 kHz
9	SEPARATION	(B)	95 MHz 1 kHz (Mod) 68.25 kHz (Dev) L or R (Select) 60 dB (Input)	95 MHz	(C)	VRb5	Minimum crosstalk (Maximum separation)
10	DISTORTION	(B)	95 MHz 1 kHz (Mod) 68.25 kHz (Dev) L (Select) 60 dB (Input)	95 MHz	(C)	L8	Minimum distortion
11	DEVIATION METER	(A)	95 MHz 1 kHz (Mod) 75 kHz (Dev) 60 dB	95 MHz	D-meter	VRb3	100% deflection
AM SECTION							
1	IF	(E)	1,000 kHz 400 Hz, 30% (Mod) 100 dB	1,000 kHz	(C)	CFb5	Maximum deflection
2	TRACKING	(E)	600 kHz 400 Hz, 30% (Mod) 100 dB	600 kHz	(C)	Tb2, 3 Bar antenna	Maximum deflection
3		(E)	1,400 kHz 400 Hz, 30% (Mod) 100 dB	1,400 kHz	(C)	CT6 ~ 8	
AUDIO SECTION							
1	POWER METER	AG output to AUX jack	1 kHz 2.5 mV or so	AUX position	Power meter to 200W position	VRh1 or 2	Meter indicates 160W (35.8V/8Ω).



* If RF unit is found to be defective, it should be replaced with new one. Also referring to Circuit Description on page 7

ADJUSTMENTS/SPECIFICATIONS

TEST EQUIPMENT AND ITS SPECIFICATIONS

STANDARD SIGNAL GENERATOR (RF-SG)

Ranges:	90 MHz~108 MHz (FM) 500 kHz~1600 kHz (AM)
Modulation frequency:	1 kHz, 400 Hz or external input (input level 2V or less)
Deviation:	0~75 kHz (FM)
Modulation:	0~30%
Output:	100 mV or more
Distortion:	0.5% or less

SOLID STATE VOLT METER (SSVM)

Ranges:	0.3 mV~300V (full scale)
Frequency response:	5 Hz~500 kHz
Impedance:	1 MΩ or more

OSCILLOSCOPE (SCOPE)

Ranges:	DC~10 MHz
Sensitivity:	20 mV/cm
Impedance:	1 MΩ or more

MULTIPLEX SIGNAL GENERATOR (MPX-SG)

Modulation frequency:	1 kHz or external input (input level: 5V or less)
Separation:	60 dB or more
S/N:	85 dB or more
Preemphasis:	50μS, 75μS, and 25μS

DISTORTION METER

Ranges:	0.1% (full scale)
Sensitivity:	100 mV or more

FREQUENCY COUNTER (COUNTER)

Frequency response:	10 Hz~1 MHz
Sensitivity:	50 mV or more
Impedance:	1 MΩ or more

AUDIO SIGNAL GENERATOR (AG)

Ranges:	5 Hz~500 kHz
Waveform:	Sine wave
Output:	10V r.m.s.
Distortion:	0.3% or less

FM TUNER SECTION (IHF)

Usable Sensitivity:	8.7 dBf (1.5μV)
50 dB Quieting Sensitivity:	14.1 dBf (2.8μV) (Mono) 36.1 dBf (35μV) (Stereo)
Signal to Noise Ratio at 65 dBf:	75 dB (Mono) 70 dB (Stereo)
T.H. Distortion at 65 dBf:	0.15% (Mono) 0.2% (Stereo)
Frequency Response:	20 Hz to 15,000 Hz +0 dB, -1.5 dB
Capture Ratio:	1.3 dB
Alternate Channel Selectivity:	83 dB
Spurious Response Ratio:	115 dB
Image Response Ratio:	100 dB
IF Response Ratio (Balanced):	115 dB
AM Suppression Ratio:	60 dB
Stereo Separation:	45 dB at 1,000 Hz, 35 dB from 50 Hz to 10,000 Hz
Subcarrier Product Ratio:	65 dB
Antenna Impedance:	300Ω balanced and 75Ω unbalanced
FM Frequency Range:	88 MHz to 108 MHz

AM TUNER SECTION

Usable Sensitivity (IHF):	10μV
Signal to Noise Ratio:	50 dB
Image Rejection:	70 dB
Selectivity (IHF):	35 dB
IF Rejection:	75 dB

POWER AMPLIFIER SECTION

160W per channel minimum RMS at 8Ω or 200W per channel, minimum RMS at 4Ω from 20 Hz to 20,000 Hz with no more than 0.08% total harmonic distortion.

Dynamic Power Output:	750W (4Ω)
Total Harmonic Distortion:	0.08% at rated power into 8Ω 0.05% at 1W power into 8Ω
Intermodulation Distortion:	0.08% at rated power into 8Ω (60 Hz: 7 kHz = 4 : 1) 0.05% at 1W power into 8Ω
Power Bandwidth:	5 Hz to 50,000 Hz
Damping Factor:	55 at 8Ω
Input Sensitivity/Impedance:	1V/50kΩ
Speaker Impedance:	Accept 4Ω to 16Ω

PRE AMPLIFIER SECTION

Input Sensitivity/Impedance/Signal to Noise Ratio (IHF A CURVE)	
Phono 1:	2.5 mV/50kΩ/76 dB
Phono 2:	5.0 mV/50kΩ/80 dB
Aux:	150 mV/50kΩ/95 dB
Tape:	150 mV/50kΩ/95 dB
Mic:	1.5 mV/50kΩ/65 dB
Maximum Input Level	
Phono 1:	500 mV (rms) T.H.D. 0.08% at 1,000 Hz
Output Level/Impedance	
Tape REC (Pin):	150 mV/100Ω
(Din):	30 mV/80kΩ
Pre out:	1V/5.3kΩ
Frequency Response	
Phono 1:	RIAA standard curve +0.2 dB, -0.2 dB
Aux and Tape:	20 Hz to 40,000 Hz +0 dB -1 dB
Mic:	100 Hz to 8,000 Hz +0 dB -3 dB
Tape Control	
Base:	±10 dB at 100 Hz
Mid:	±10 dB at 800 Hz
Treble:	±8 dB at 10,000 Hz
Loudness Control (-30 dB):	(1) +3 dB at 100 Hz, (2) +6 dB at 100 Hz
Low Filter:	-9 dB at 100 Hz
High Filter:	-9 dB at 10 kHz

GENERAL

Power Requirement:	AC 60Hz, 120V (U.S.A. and Canada) or AC 50/60 Hz 110 ~ 120V, 220 ~ 240V switchable
Power Consumption:	820W at full power
AC Outlet:	Switched 1, Unswitched 2
Dimensions:	W 22-27/32" (580 mm) H 6-21/32" (169 mm) D 16-17/32" (420 mm)
Weight (Net):	52.9 lbs (24.0 kg)
U TYPE	
Dimension:	W 23-15/16" (608 mm) H 7-11/16" (195 mm) D 17-1/8" (435 mm)
Weight (Net):	57.8 lbs (26.2 kg)
(Gross):	63.3 lbs (28.7 kg)

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TRIO-KENWOOD CORPORATION

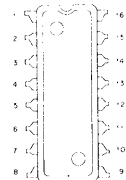
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SCHEMATIC DIAGRAM (1)

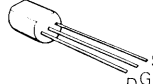
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NJM4558D

Top View

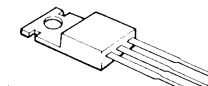
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HA-1196
HA-1197



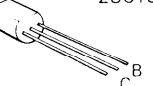
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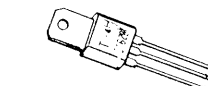
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2SA755
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2SD234



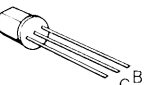
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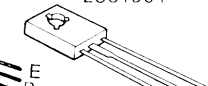
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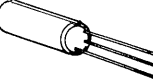
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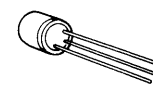
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2SC1904



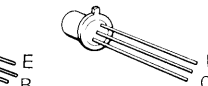
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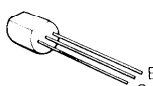
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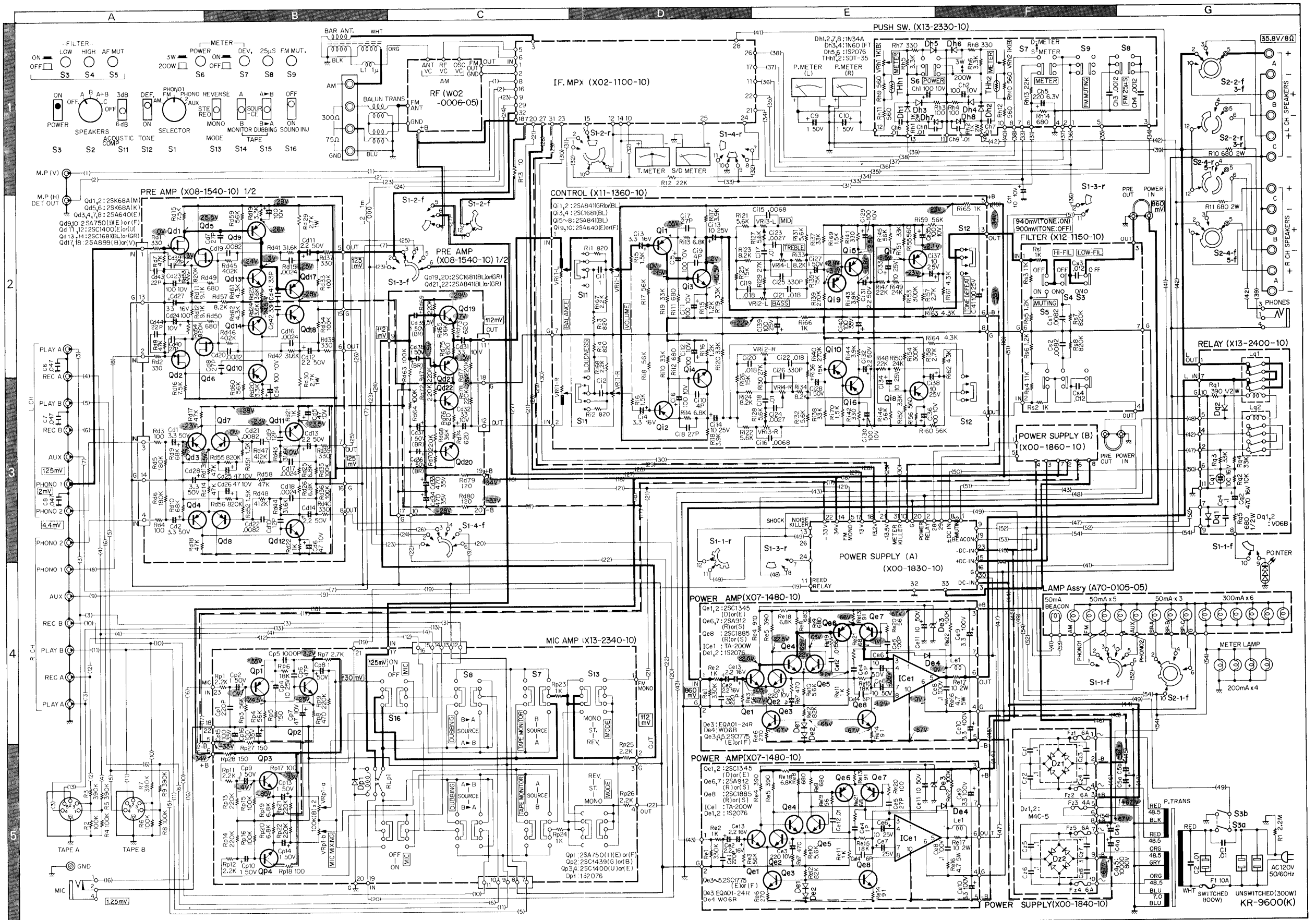
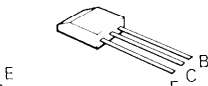
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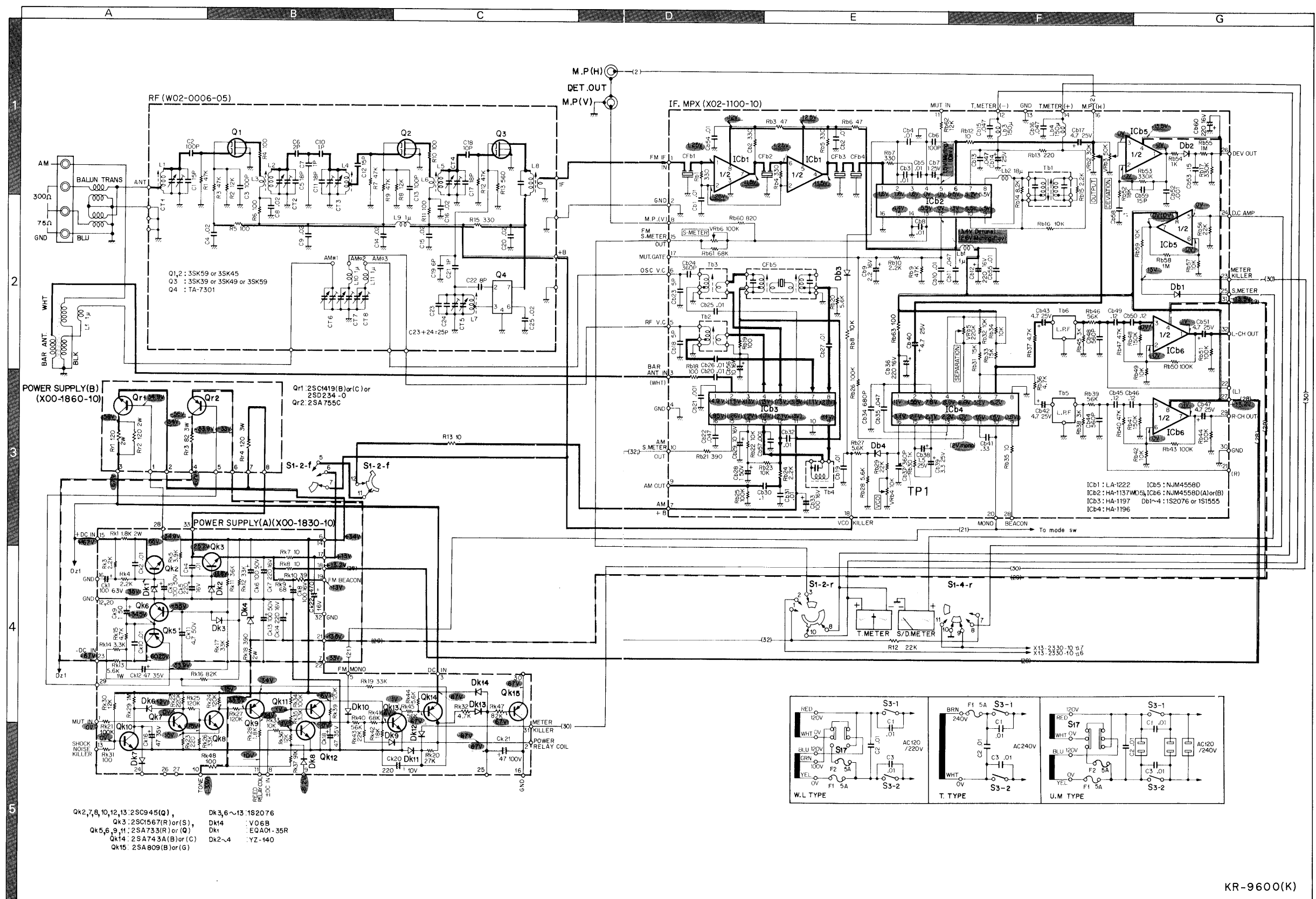


2SA673



□ Audio signal (Reference value).
○ DC voltage at no signal (Reference value)*
* DC voltages indicated here are measured with 20kΩ/V meter.

SCHEMATIC DIAGRAM (2)



KR-9600(K)

DC voltages are measured at FM stereo reception except ().
 () voltages are measured at AM reception.
 DC voltages indicated here are measured with 20kΩ/V meter.