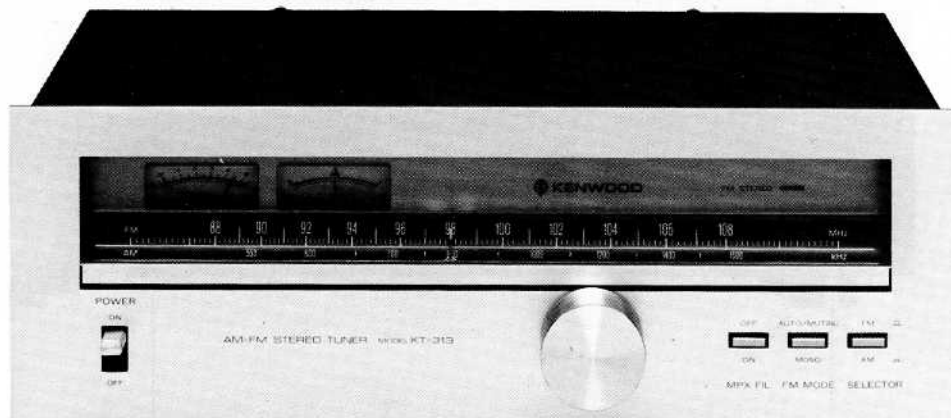


KENWOOD
HI/FI STEREO COMPONENTS

SERVICE MANUAL

KT-313
(KT-3133)



AM-FM STEREO TUNER

CONTENTS

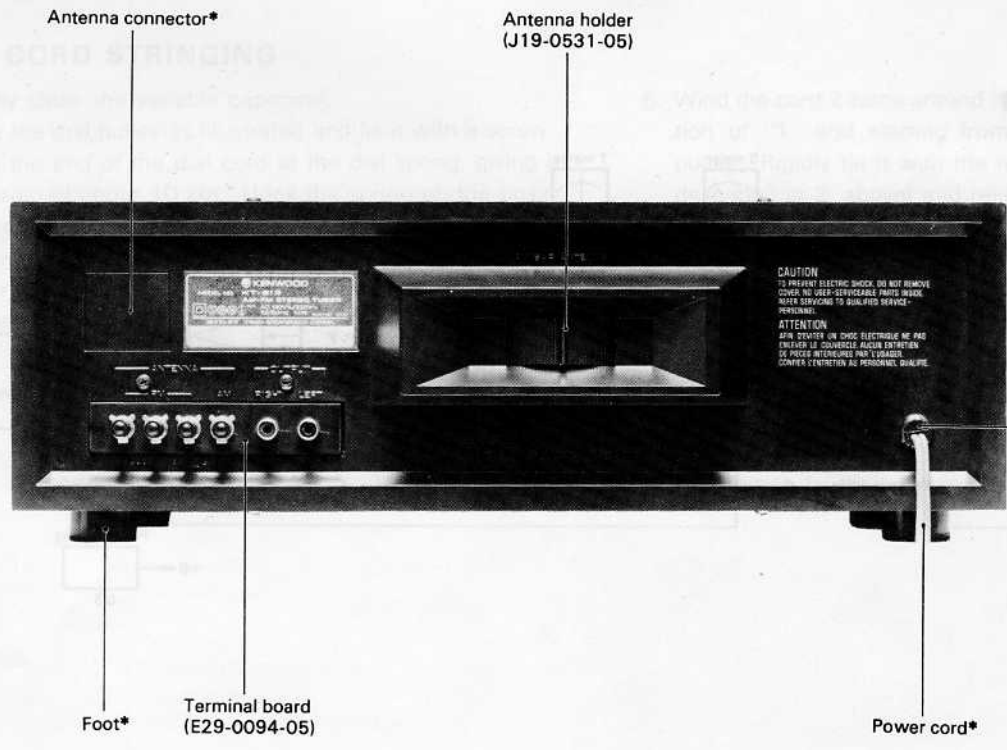
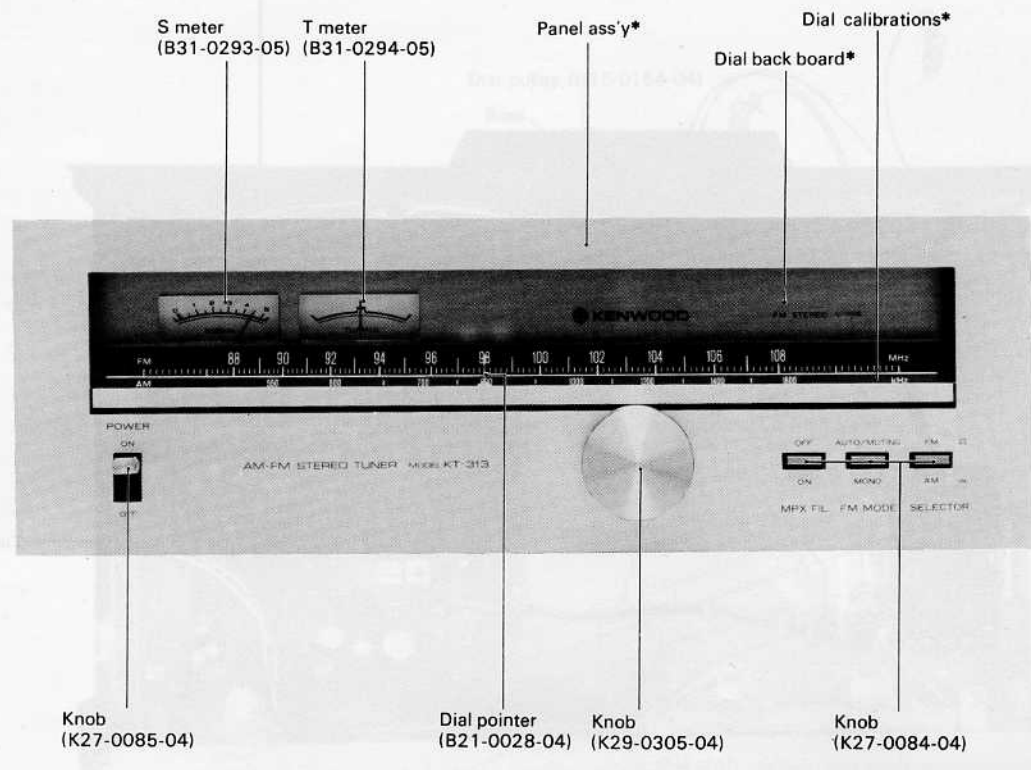
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Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

Region	Code
U.S.A.	K
Canada.....	P
PX.....	U
Australia.....	X
Europe and Scandinavia.....	E
England.....	T
South Africa.....	S
Other Areas.....	M
Audio Club (KT-3133).....	H

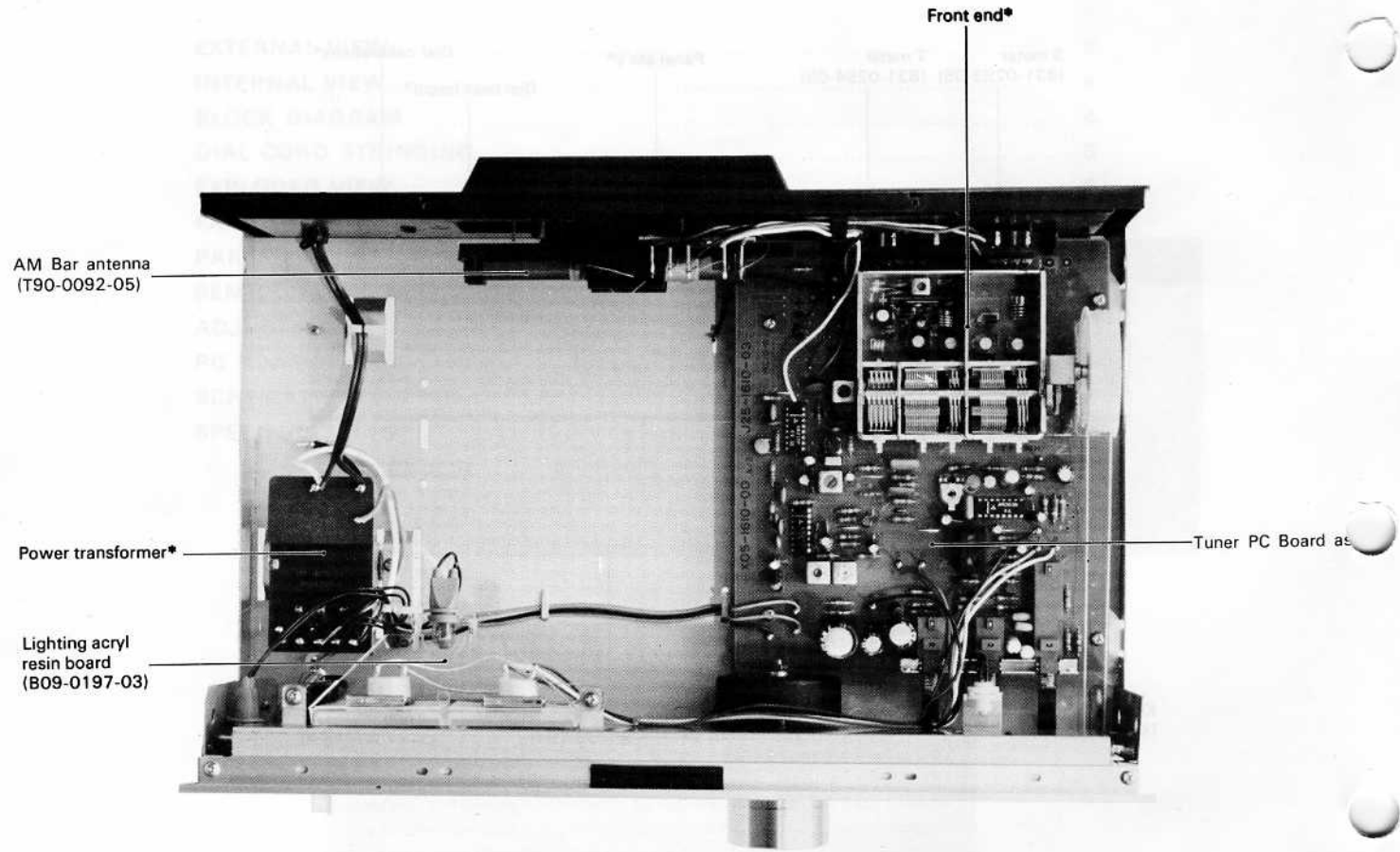
EXTERNAL VIEW



CAUTION
 TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE COVER OR USER-SERVICEABLE PARTS. MAKE REPAIRS TO QUALIFIED SERVICE PERSONNEL.
ATTENTION
 AFIN D'ÉVITER UN CHOC ÉLECTRIQUE NE PAS ENLEVER LE COUVERCLE AUCUN ÉLÉMENT DE POSEUR INTÉRIEUR PAS À L'USAGE. CONFIER L'ENTRETIEN À DU PERSONNEL QUALIFIÉ.

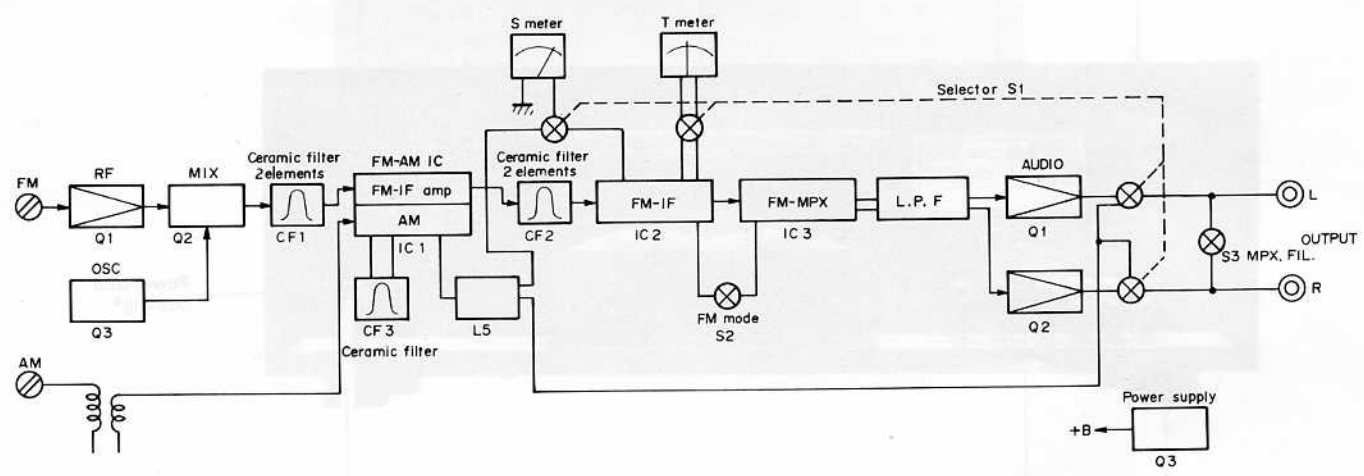
* Refer to Parts List.

INTERNAL VIEW/BLOCK DIAGRAM

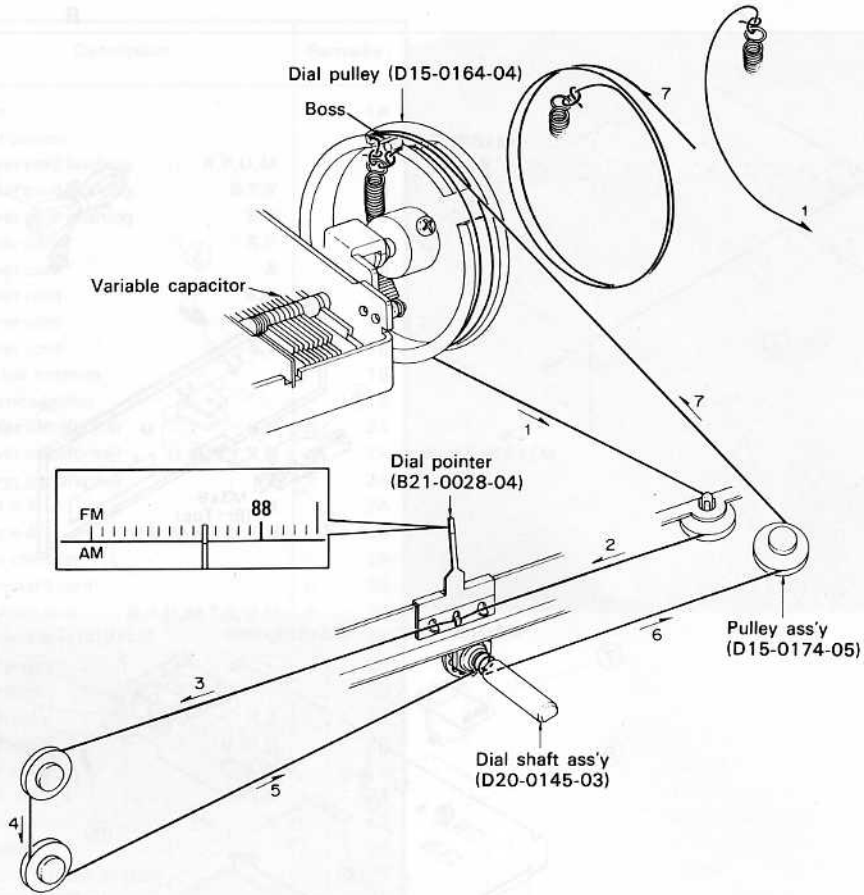


* Refer to Parts List.

BLOCK DIAGRAM



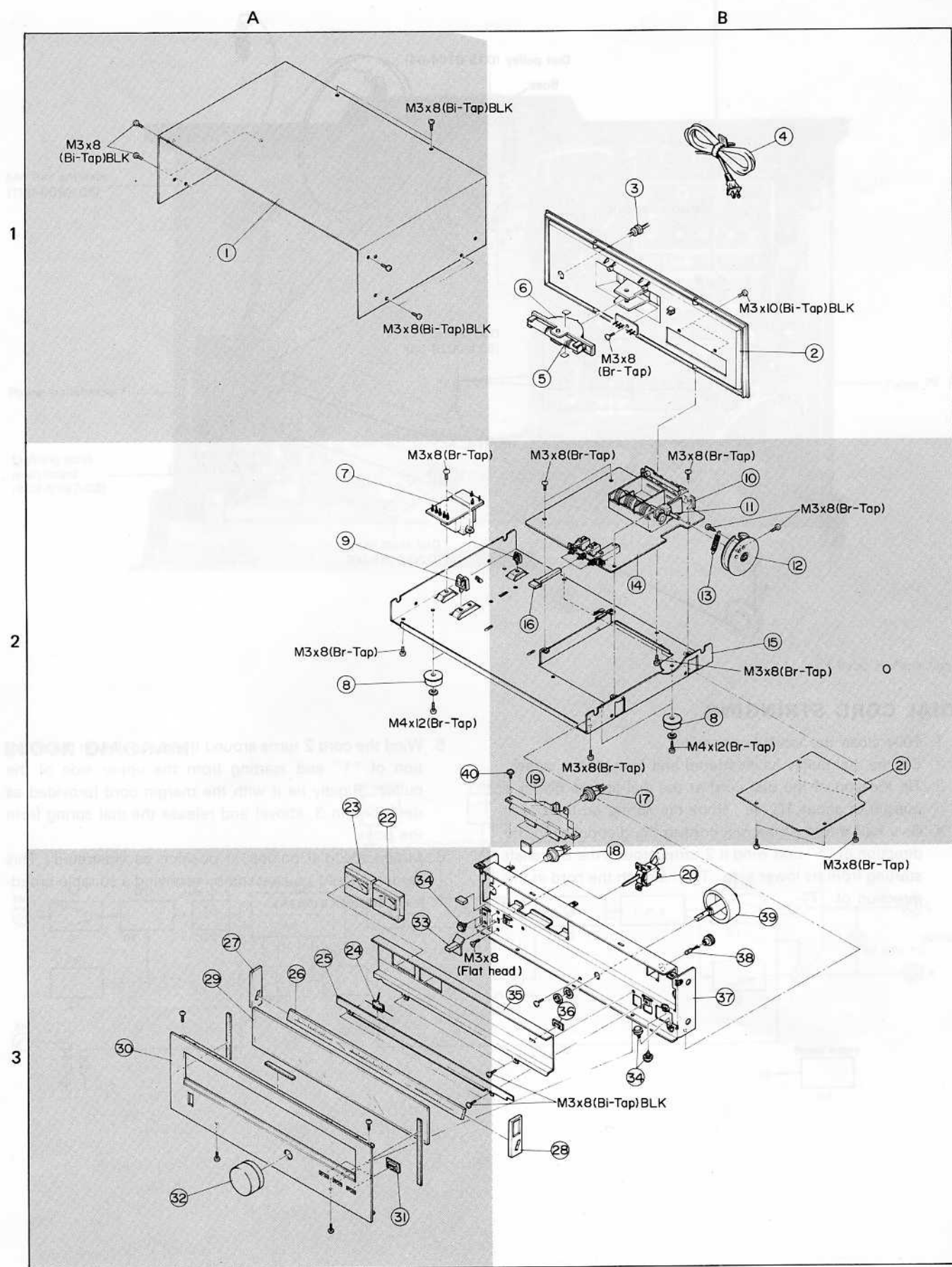
DIAL COAD STRINGING



DIAL CORD STRINGING

1. Fully close the variable capacitor.
2. Set the dial pulley as illustrated and fix it with a screw.
3. Tie the end of the dial cord at the dial spring, giving a margin of about 10 cm. Hook the spring on the boss.
4. Give half a turn of the dial cord to the dial pulley in the direction of "1" and wind it 2 turns around the dial shaft starting from its lower side. Then stretch the cord in the direction of "7".
5. Wind the cord 2 turns around the dial pulley in the direction of "1" and starting from the upper side of the pulley. Rigidly tie it with the margin cord (provided as described in 3. above) and release the dial spring from the boss.
6. Mount the dial pointer in position as illustrated. This setting should be checked by receiving a suitable broadcast station actually.

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

☆ : New Parts

Fig. No.	Parts No.	Description	Remarks
1	A01-0350-03	Case	1A
2	—	Rear pannel	1B
3	J42-0072-05	Power cord bushing K,P,U,M	1B
	J42-0074-05	Power cord bushing S,T,X	1B
	J41-0017-05	Power cord bushing E,H	1B
4	E30-0181-05	Power cord K,P	1B
	E30-0185-05	Power cord X	1B
	E30-0459-05	Power cord E,H	1B
	E30-0545-05	Power cord U,M	1B
	E30-0602-05	Power cord S,T	1B
5	T90-0092-05	AM bar antenna	1B
6	J19-0531-05	Antenna holder	1B
7	L01-1651-05	Power transformer K,P	☆ 2A
	L01-1654-05	Power transformer U,M,S,T,X,H	☆ 2A
	L01-1657-05	Power transformer E	☆ 2A
8	J02-0073-04	Foot × 4 K	2A
	J02-0049-14	Foot × 4 P,U,M,S,T,X,E,H	2A
9	—	Wire crammer	2A
10	E29-0094-05	Terminal board	☆ 2B
11	W02-0017-05	FM front end K,P,U,M,T,X,U,H	☆ 2B
	W02-0018-05	FM front end S	☆ 2B
12	D15-0164-04	Dial pulley	2B
13	G01-0045-24	Dial spring	2B
14	X05-1610-12	PCB ass'y K,P	2B
	X05-1610-11	PCB ass'y U,M,H	2B
	X05-1610-41	PCB ass'y S	2B
	X05-1610-61	PCB ass'y T,E	2B
	X05-1610-71	PCB ass'y X	2B
15	—	Chassis	2B
16	K27-0084-04	Knob × 3 (Push switch)	2B
17	B30-0165-05	Pilot lamp (Blue)	☆ 2B
18	B30-0165-05	Pilot lamp (Blue)	☆ 2B
19	B19-0197-03	Lighting acryl resin board	2B
20	S33-1006-05	Power switch K,P	3B
	S33-1007-05	Power switch U,M,S,X,H	3B
	S33-2032-05	Power switch T,E	3B
21	—	Bottom plate	2B
22	B31-0294-05	T meter	☆ 3A
23	B31-0293-05	S meter	3A
24	B21-0028-04	Dial pointer	3A
25	—	Dial pointer rail	☆ 3A
26	B20-0427-04	Dial calibrations K,P,U,M,T,X,E,H	☆ 3A
	B20-0428-04	Dial calibrations S	☆ 3A
27	—	Dial calibrations holder, L	3A
28	—	Dial calibrations holder, R	3B
29	—	Front glass (Panel ass'y)	☆ 3A
30	—	Panel (Panel ass'y)	☆ 3A
31	—	Escutcheon (Panel ass'y)	☆ 3A
29-31	A20-1346-03	Panel ass'y K,P,U,M,S,T,X,E	☆ 3A
	A20-1415-03	Panel ass'y H	☆ 3A
32	K29-0305-04	Knob (Tuning)	☆ 3A
33	K27-0085-04	Knob (Power switch)	☆ 3A
34	D15-0174-05	Pulley ass'y × 4	☆ 3A
35	A30-0159-03	Dial back board K,P,U,M,S,X,U,H	☆ 3A
	A30-0167-03	Dial back board T	☆ 3A
36	—	Indicator	☆ 3B
37	—	Sub panel	☆ 3B
38	B30-0127-05	Pilot lamp (Stereo indicator)	3B
39	D20-0145-03	Dial shaft ass'y	☆ 3B
40	N09-0287-05	Screw (Lighting acryl resin board)	2A

PARTS LIST

☆ : New parts
 FP: Flame proof
 RD: Carbon film resistor
 RC: Carbon composition resistor
 RW: Wire wound power resistor
 RN: Metal film resistor
 RS: Metal oxide film resistor
 The parts No. of the resistor and the capacitor is changed into computer code.

TOTAL

Ref. No.	Parts No.	Description	Re- marks
—	A01-0350-03	Case	
—	A20-1346-03	Panel ass'y	K,P,U,M,S,T,X,E ☆
—	A20-1415-03	Panel ass'y	H ☆
—	A30-0159-03	Dial back board	K,P,U,M,S,X,E,H ☆
—	A30-0167-03	Dial back board	T ☆
—	B19-0197-03	Lighting acryl resin board	
—	B20-0427-04	Dial calibrations	K,P,U,M,T,X,E,H ☆
—	B20-0428-04	Dial calibrations	S ☆
—	B21-0028-04	Dial pointer	
—	B30-0127-05	Pilot lamp	
—	B30-0165-05	Pilot lamp × 2 (Blue)	☆
—	B31-0293-05	S meter	☆
—	B31-0294-05	T meter	☆
—	B46-0055-20	Warranty card	P
—	B46-0060-00	Warranty card	T
—	B46-0061-20	Warranty card	K
—	B46-0062-20	Warranty card	U,H
—	B46-0063-00	Warranty card	U
—	B46-0064-00	Warranty card	X
—	B50-1791-00	Instruction manual	K,U,S,X ☆
—	B50-1792-00	Instruction manual	P,M ☆
—	B50-1793-00	Instruction manual	T ☆
—	B50-1794-00	Instruction manual	E ☆
—	B50-1849-00	Instruction manual	H ☆
—	B59-0018-00	Guide book	U
C1.2	C54-3310-39	Ceramic 0.01μF 250WV	T,E
C1	C90-0145-05	Film 0.01μF 250WV or	K
	C91-0001-05	Ceramic 0.01μF 250WV	
C1	C91-0023-05	Ceramic 0.01μF 250WV	U,M,S,X,H
C1	C91-0025-05	Ceramic 0.01μF 250WV	P
—	D15-0164-04	Dial pulley	
—	D15-0174-05	Pulley ass'y × 4	☆
—	D20-0145-03	Dial shaft ass'y	☆
—	E04-0004-05	Antenna connector	E
—	E30-0181-05	Power cord	K,P
—	E30-0185-05	Power cord	X
—	E30-0459-05	Power cord	E,H
—	E30-0505-05	Audio cord	
—	E30-0545-05	Power cord	U,M
—	E30-0602-05	Power cord	S,T
—	G01-0045-24	Dial spring	
—	H01-1839-04	Carton box	K,U,M,S,X,E ☆
—	H01-1840-04	Carton box	P ☆
—	H01-1841-04	Carton box	T ☆
—	H01-1889-04	Carton box	H ☆
—	H10-1523-02	Buffer fixture	
—	H20-0417-04	Polyethylene cover	M
—	H20-0451-04	Polyethylene cover	K,P,U,S,T,X,H ☆
—	H25-0078-04	Polyethylene bag (Instruction)	
—	H25-0148-04	Polyethylene bag (Audio cord)	

Ref. No.	Parts No.	Description	Re- marks
—	J02-0049-14	Foot × 4	P,U,M,S,T,X,E,H
—	J02-0073-04	Foot × 4	K
—	J19-0531-05	Antenna holder	
—	J41-0017-05	Power cord bushing	E,H
—	J42-0072-05	Power cord bushing	K,P,U,M
—	J42-0074-05	Power cord bushing	S,T,X
—	J61-0045-15	Combex	E
—	K27-0084-04	Knob × 3 (Push switch)	☆
—	K27-0085-04	Knob × 3 (Power switch)	☆
—	K29-0305-04	Knob × 3 (Tuning)	☆
—	L01-1651-05	Power transformer	K,P ☆
—	L01-1654-05	Power transformer	U,M,S,T,X,H ☆
—	L01-1657-05	Power transformer	E ☆
R1	R92-0173-05	Metal oxide film 10Ω 1W 5%	
R2	R47-1410-05	Metal oxide film 2.2MΩ 1W 5%	K,P
S2	S31-2050-05	Slide switch (Power voltage selector)	
S1	S33-1006-05	Power switch	U,M,S,X,E,H
S1	S33-1007-05	Power switch	K,P
S1	S33-2032-05	Power switch	U,M,S,X,H
—	T90-0092-05	AM Bar antenna	☆
—	T90-0202-05	FM Indoor antenna	
—	X05-1610-11	PCB ass'y	U,M,H ☆
—	X05-1610-12	PCB ass'y	K,P ☆
—	X05-1610-41	PCB ass'y	S ☆
—	X05-1610-61	PCB ass'y	T,E ☆
—	X05-1610-71	PCB ass'y	X ☆

TUNER (X05-1610-12)

Ref. No.	Parts No.	Description	Re- marks
C1~4	C55-1710-38	Ceramic 0.01μF +80%—20%	
C5	C24-1710-51	Electrolytic 1μF 50WV	
C6	C71-1710-15	Ceramic 100pF ±5%	
C7	C24-1710-51	Electrolytic 1μF 50WV	
C8	C24-1733-51	Electrolytic 3.3μF 50WV	
C9	C24-1710-51	Electrolytic 1μF 50WV	
C10,11	C55-1710-38	Ceramic 0.01μF +80%—20%	
C12	C46-1747-35	Mylar 0.047μF ±5%	
C13	C24-1210-61	Electrolytic 10μF 16WV	
C14	C48-1747-15	Polystyrene 470pF ±5%	
C15	C25-1747-47	Electrolytic 0.47μF 50WV	
C16	C25-1722-47	Electrolytic 0.22μF 50W	
C17~19	C24-1710-51	Electrolytic 1μF 50WV	
C20,21	C46-1715-35	Mylar 0.015μF ±5%	
	C46-1722-35	Mylar 0.022μF ±5%	T,X,E
C22,23	C25-1722-47	Electrolytic 0.22μF 50WV	
C24	C60-1718-05	Ceramic 18pF ±5%	K,P,U,M,S,H
C25	C48-1736-15	Polystyrene 360pF ±5%	
C26	C55-1710-38	Ceramic 0.01μF +80%—20%	
C27,28	C55-1722-38	Ceramic 0.022μF +80%—20%	
C29	C24-1210-61	Electrolytic 10μF 16WV	
C30,31	C24-1722-51	Electrolytic 2.2μF 50WV	

PARTS LIST/SEMICONDUCTOR SUBSTITUTIONS

Ref. No.	Parts No.	Description	Re- marks
C32.33	C55-1710-38	Ceramic 0.01 μ F +80% -20%	
C34	C46-1768-36	Mylar 0.068 μ F \pm 10%	
C35	C24-1722-51	Electrolytic 2.2 μ F 50WV	
C36	C24-1410-81	Electrolytic 1000 μ F 25WV	
C37	C24-1247-71	Electrolytic 470 μ F 16WV	
C38	C24-1222-71	Electrolytic 220 μ F 16WV	
C39	C46-1712-36	Mylar 0.012 μ F \pm 10%	
C40	C24-1010-71	Electrolytic 100 μ F 10WV	
C41	C24-1047-61	Electrolytic 47 μ F 10WV	
C42	C24-1010-71	Electrolytic 100 μ F 10WV	
L1	L30-0316-05	FM-IFT	
L2	L30-0317-05	FM-IFT	
L3	L32-0191-05	AM-OSC coil	
L4	L30-0307-05	AM-IFT	
L5	L30-0275-05	AM-IFT or	
	L30-0283-05	AM-IFT	
CF1.2	L72-0059-05	Ceramic filter	T,X
	L72-0068-05	Ceramic filter	K,P,U,M,S,E,H
CF3	L72-0069-05	Ceramic filter	
FL1	L79-0072-05	Low pass filter or	
	L79-0087-05	Low pass filter	
FL2	L79-0073-05	9kHz Notch filter	U,M,S,T,X,E,H
VR1	R12-2014-05	Potentiometer 5k Ω (B) VCO or	
	R12-2016-05	Potentiometer 5k Ω (B) VCO	
R11	R43-1268-05	FP-RD 68 Ω \pm 5% 1/4W	
R14	R40-8215-16	RC 150 Ω \pm 10% 1/2W	
R39,41	R43-1222-15	FP-RD 220 Ω \pm 5% 1/4W	
R44	R43-1210-05	FP-RD 10 Ω \pm 5% 1/4W	
R45	R43-1212-15	FP-RD 120 Ω \pm 5% 1/4W	
CR1	R90-0104-05	CR parts (R37, C31, C32)	
S1~3	S42-3024-05	Push switch	
Q1.2	V01-0564-30	Transistor 2SA564 (Q, R) or	
	V01-0733-30	Transistor 2SA733 (A) (Q,R)	
Q3	V03-0373-05	Transistor 2SC1384 (Q,R)	
D1	V11-0076-05	Diode 1S1555 or	
	V11-0271-05	Diode 1S2076	
D2	V11-0051-05	Diode 1N60	
D3	V11-0387-05	Diode EQA01-12 (R) or	
	V11-4104-30	Diode WZ-115	
D4.5	V11-0295-05	Diode W06B	
IC1	V30-0270-10	IC AN217P	
IC2	V30-0246-10	IC AN377	
IC3	V30-0270-40	IC AN363N	

SEMICONDUCTOR SUBSTITUTIONS

Ref. No.	Semiconductor Name	Semiconductor Substitutions
Q1	2SK55	2SK61
Q2	2SC535	2SC1923, 2SC381
Q3	2SC461	2SC1342
Q1, 2	2SA733A (Q, R)	2SA640
	2SA564A (Q, R)	
Q3	2SC1384 (Q, R)	2SC1735, 2SD438MP
IC1	AN217P	AN217BB
IC2	AN377	HA1137W
IC3	AN363N	-

ADJUSTMENT

INSTRUMENTS USED

- Oscilloscope OSC
- AM signal generator..... AM-SG
- FM signal generator..... FM-SG
- Audio generator AG
- Solid state voltmeter SSVM
- FM multiplex generator FM-MPS
- Frequency counter

NOTES FOR ADJUSTMENT

- * Repeat tracking adjustments 2 or 3 times and finally confirm the result using respective local stations.
- * The check points are shown on both circuit diagram and printed circuit board diagram.
- * 0 dB = 1 μ V
- * FM tracking on lower side cannot be adjusted since a fixed coil is employed.

OR- DER	ITEM	INSTRUMENT		TUNER SETTING	OUTPUT	ADJUSTMENT POINTS	ADJUSTMENT METHOD	
		CONNECTION	SETTING					
FM SECTION								
1	IFT	(A)	95 MHz 1 kHz 75 kHz	60 dB (Mod) (Dev)	95 MHz	(B)	T1 (W02-0017-05) or (W02-0018-05)	Maximum optimum waveform, minimum distortion
2	DISCRI	—	—	—	—	T meter	L1	Meter indication in the center
3		(A)	95 MHz 1 kHz 75 kHz	60 dB (Mod) (Dev)	95 MHz	(B)	L2	Maximum optimum waveform, minimum distortion
4	TRACK- ING	(A)	106 MHz 1 kHz 75 kHz	(Dev) (Mod) (Dev)	106 MHz	(B)	TCA, TCR, TCO	Maximum optimum waveform
5	VCO	(A)	95 MHz 0	60 dB (Dev)	95 MHz	(C)	VR1	Adjusted to 19 kHz \pm 50 Hz
AM SECTION								
1	IF	(D)	1000 kHz 400 Hz 30% (Mod) 100 dB		1000 kHz	(B)	L4, L5	Maximum optimum waveform, minimum distortion
2	TRACK- ING	(D)	600 kHz 400 Hz 30% (Mod) 100 dB		600 kHz	(B)	L3 Bar antenna	Maximum optimum waveform, minimum distortion
3			1400 kHz 400 Hz 30% (Mod) 100 dB		1400 kHz		TC2, 4	

REGLAGES

INSTRUMENTS USITE

Oscilloscope OSC
 Générateur MA AM-SG
 Générateur MF FM-SG
 Générateur Audio fréquences AG
 Voltmètre à transistor SSVM
 Générateur multiplex stéréo FM-MPX
 Compteur de fréquence

REMARQUES DE REGLAGES

- Renouveler plusieurs fois le réglage de reproduction et confirmer la réception de l'émission.
- Le point de contrôle est indiqué sur le schéma de montage et le tracé du circuit imprimé.
- 0 dB = 1 μ V
- Comme on utilise une bobine fixée, l'alignement sur band latérale inférieure n'est pas possible.

N°	ALIGNEMENT	APPAREILLAGE		REGLAGE DE TUNER	INDICATEUR DE SORTIE	POINTS DE REGLAGES	REMARQUES
		RACCORDEMENT	REGLAGE				
MF							
1	FI	(A)	95 MHz 1 kHz (Modulation) 75 kHz (Déviation) 60 dB (Entrée d'antenne)	95 MHz	(B)	T1 (W02-0017-05) ou (W02-0018-05)	Déviaton maximale, distorsion minimale
2	DISCRIMINATEUR	—	—	—	Indicateur T-Mètre à zéro central	L1	Aiguille de indicateur à zéro central en position centrale
3	DISCRIMINATEUR	(A)	95 MHz 1 kHz (Modulation) 75 kHz (Déviation)	95 MHz	(B)	L2	Déviaton maximale, distorsion minimale
4	ALIGNEMENT	(A)	106 MHz 1 kHz (Modulation) 75 kHz (Déviation)	106 MHz	(B)	TCA,TCAR,TCO	Déviaton maximale,
5	OSCILLATEUR VCO 19 KHz	(A)	95 MHz 0 (Déviation) 60 dB (Entrée d'antenne)	95 MHz	(C)	VR1	Ajuster oscillateur sur 19 kHz \pm 50 Hz
MA							
1	FI	(D)	1000 kHz 400 Hz, 30% (Modulation) 100 dB (Entrée d'antenne)	1000 kHz	(B)	L4,L5	Déviaton maximale, distorsion minimale
2	ALIGNEMENT	(D)	600 kHz 400 Hz, 30% (Modulation) 100 dB (Entrée d'antenne)	600 kHz	(B)	L3, ANTENNE- FERRITE MA	Déviaton maximale, distorsion minimale
3	ALIGNEMENT	(D)	1400 kHz 400 Hz, 30% (Modulation) 100 dB (Entrée d'antenne)	1400 kHz	(B)	TC2,4	Déviaton maximale, distorsion minimale

ABGLEICH

PRÜFEINRICHTUNGEN

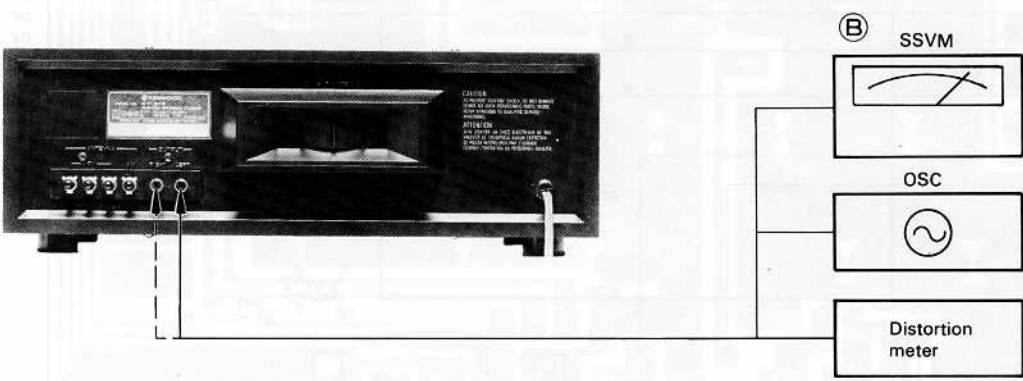
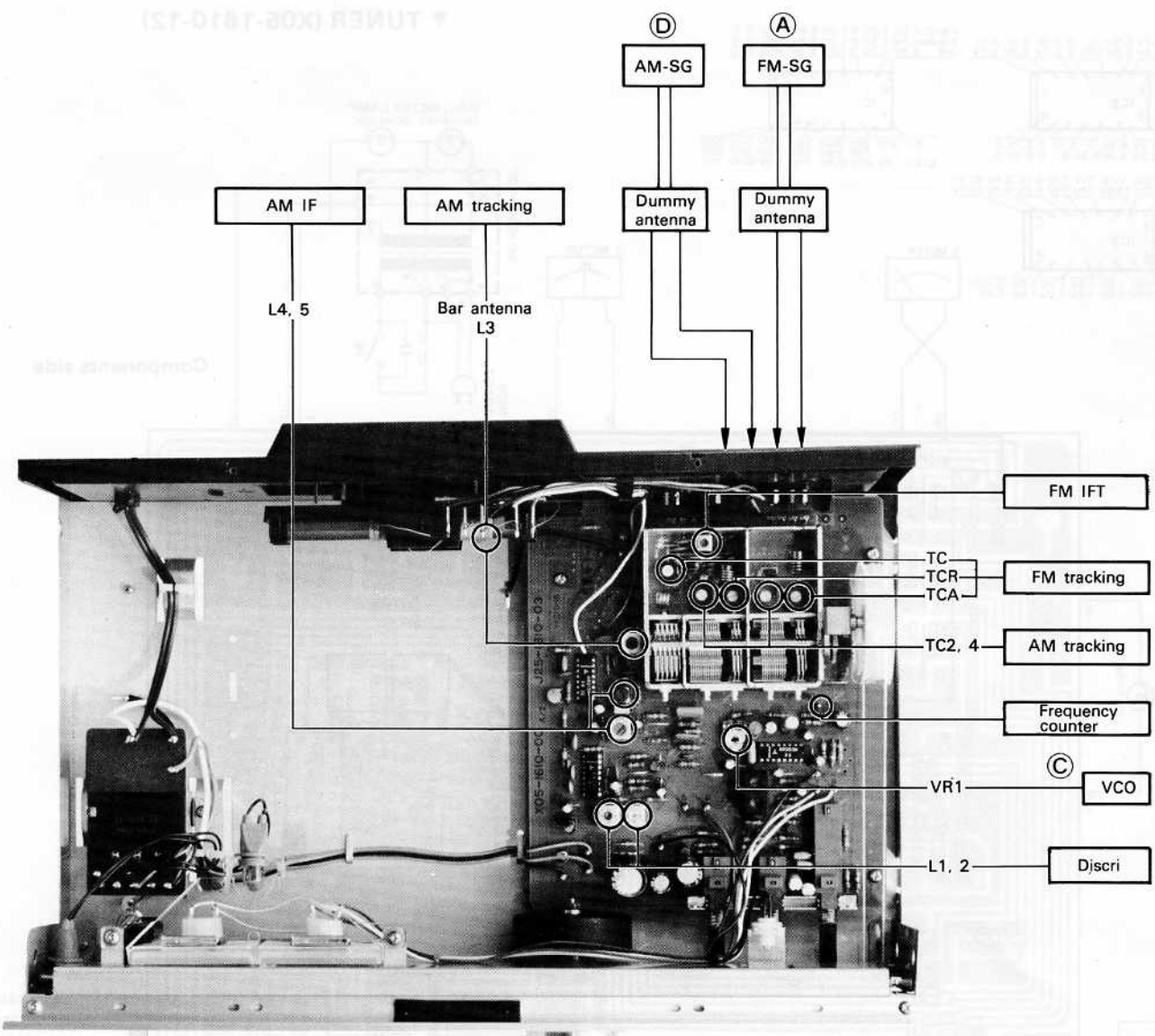
- Oszilloskop..... OSC
- HF-Signalgenerator..... M-SG
- NF-Signalgenerator..... AG
- Transistor-Voltmeter..... SSVM
- Multiplex-Signalgenerator..... FM-MPX
- Frequenzzähler

HINWEISE

- Den Empfangsbereich einige Male einstellen und den Empfang überprüfen.
- Der Prüfpunkt (TP) ist im Schaltplan aufgeführt.
- 0 dB = 1 μ V
- Die UKW-Empfangsbereich auf der unteren Seite kann nicht geregelt werden, weil eine Festspule verwendet wird.

NR.	ABGLEICH	PRÜFEINRICHTUNG		TUNER EINSTELLUNG	AUSGANGS-ANZEIGE	EINSTELL-PUNKT	BEMERKUNGE
		ANSCHLÜSSE	EINSTELLUNG				
UKW-EMPFANGSABTEILUNG							
1	ZF-T	Ⓐ	95 MHz 1 kHz, \pm 75 kHz (Hub) 60 dB	95 MHz	Ⓑ	T1 (W02-0017-05) order (W02-0018-05)	Maximaler Ausschlag und Minimaler Klirr
2	DISKRIMINATOR	—	—	—	KANALMITTEN ANZEIGER	L1	Den Zeiger des Kanalmitten-Anzeiger mittig einstellen
3	DISKRIMINATOR	Ⓐ	95 MHz 1 kHz, \pm 75 kHz (Hub) 60 dB	95 MHz	Ⓑ	L2	Minimaler Klirr
4	EMPFANGSBEREICH	dito	106 MHz 1 kHz, \pm 75 kHz (Hub)	106 MHz	dito	TCA,TCR,TCO	Maximaler Ausschlag
5	SPANNUNGSGEREGELTER OSZILLATOR	dito	95 MHz 0 (Hub) 60 dB	95 MHz	Ⓒ	VR1	19 kHz
MW-EMPFANGSABTEILUNG							
1	ZF	Ⓓ	1000 kHz 400 Hz, 30% Modulation	1000 kHz	Ⓑ	L4, L5	Maximaler Ausschlag und Minimaler Klirr
2	EMPFANGSBEREICH	Ⓓ	600 kHz 400 Hz, 30% Modulation	600 kHz	Ⓑ	L3 MW-Ferritantenne	Maximaler Ausschlag
3	EMPFANGSBEREICH	Ⓓ	1400 kHz 400 Hz, 30% Modulation	1400 kHz	Ⓑ	TC2, TC4	dito

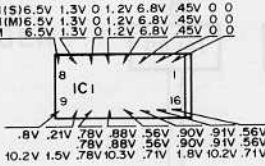
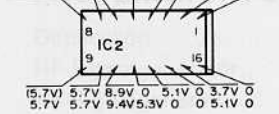
ADJUSTMENT



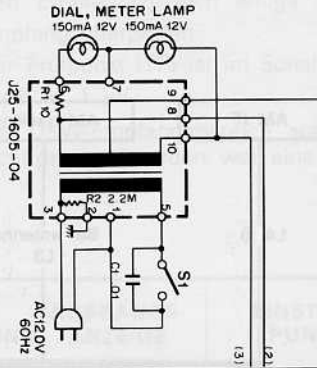
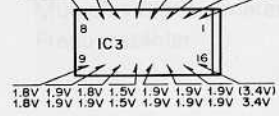
PC BOARD

▼ TUNER (X05-1610-12)

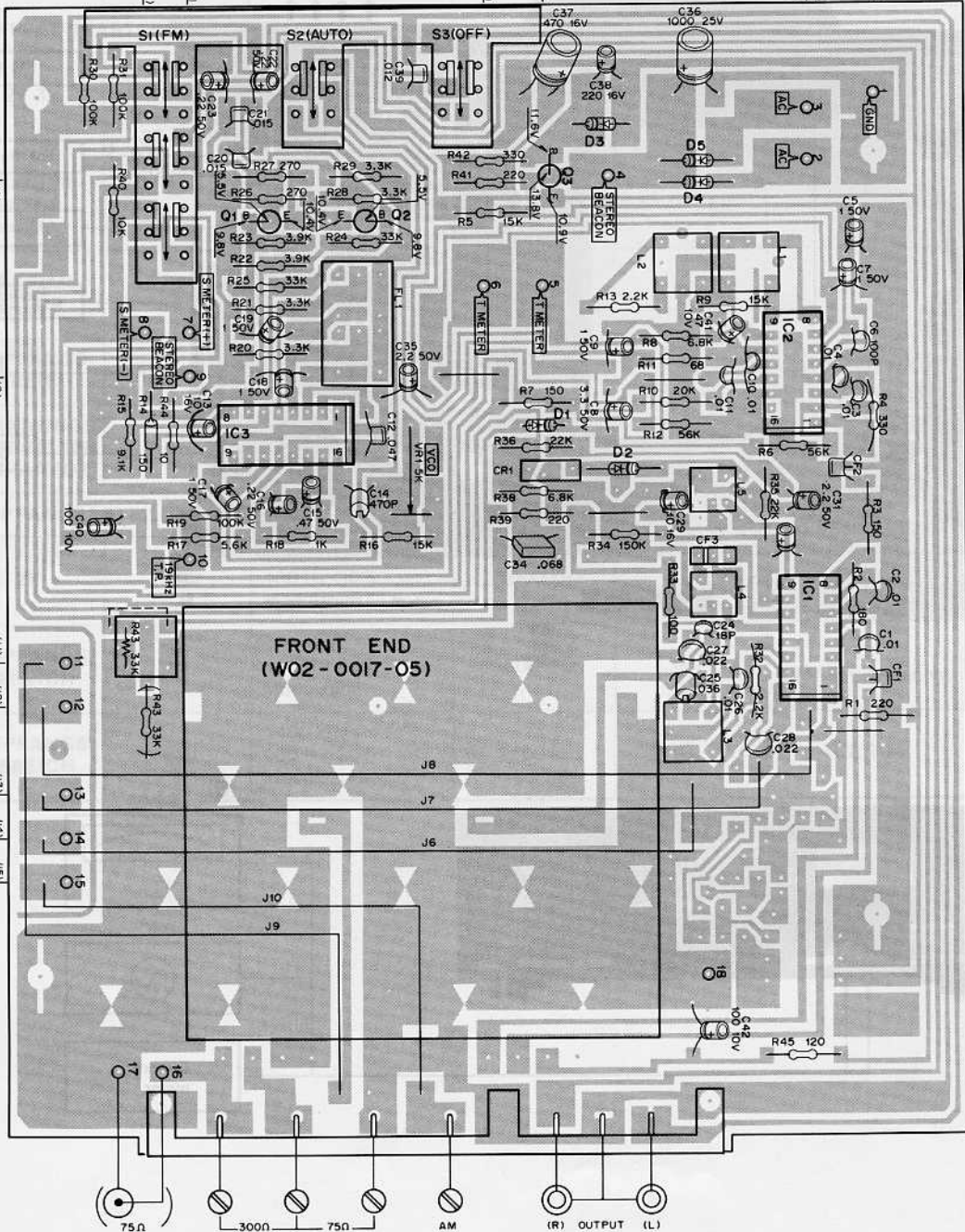
FM(S) 5.7V 5.7V 5.8V 0 0 2.1V 2.1V 2.1V
 FM(M) 6.5V 1.3V 0 1.2V 6.8V 45V 0 0
 AM 5.7V 6.4V 5.8V 1.5V 0 2.7V 3.4V 2.7V
 FM(S) 6.5V 1.3V 0 1.2V 6.8V 45V 0 0
 FM(M) 6.5V 1.3V 0 1.2V 6.8V 45V 0 0
 AM 6.5V 1.3V 0 1.2V 6.8V 45V 0 0



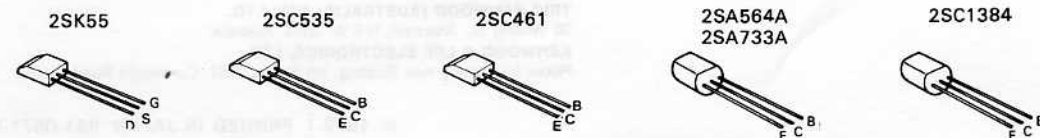
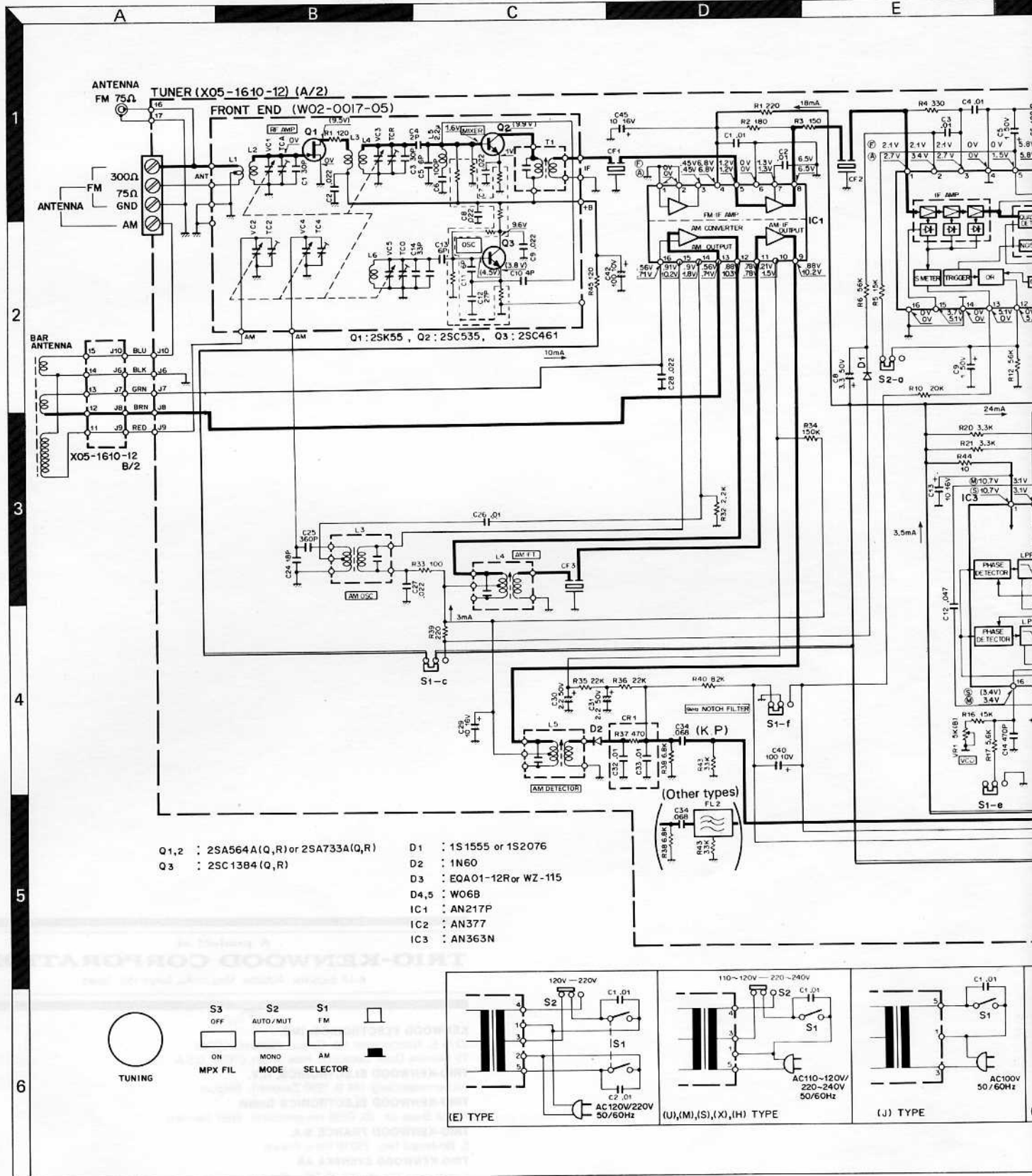
(S) 2.8V .0V 1.0V 7.1V 7.1V 5.1V 3.1V 10.7V
 (M) 2.8V .0V 13.8V 7.1V 7.1V 5.2V 3.1V 10.7V



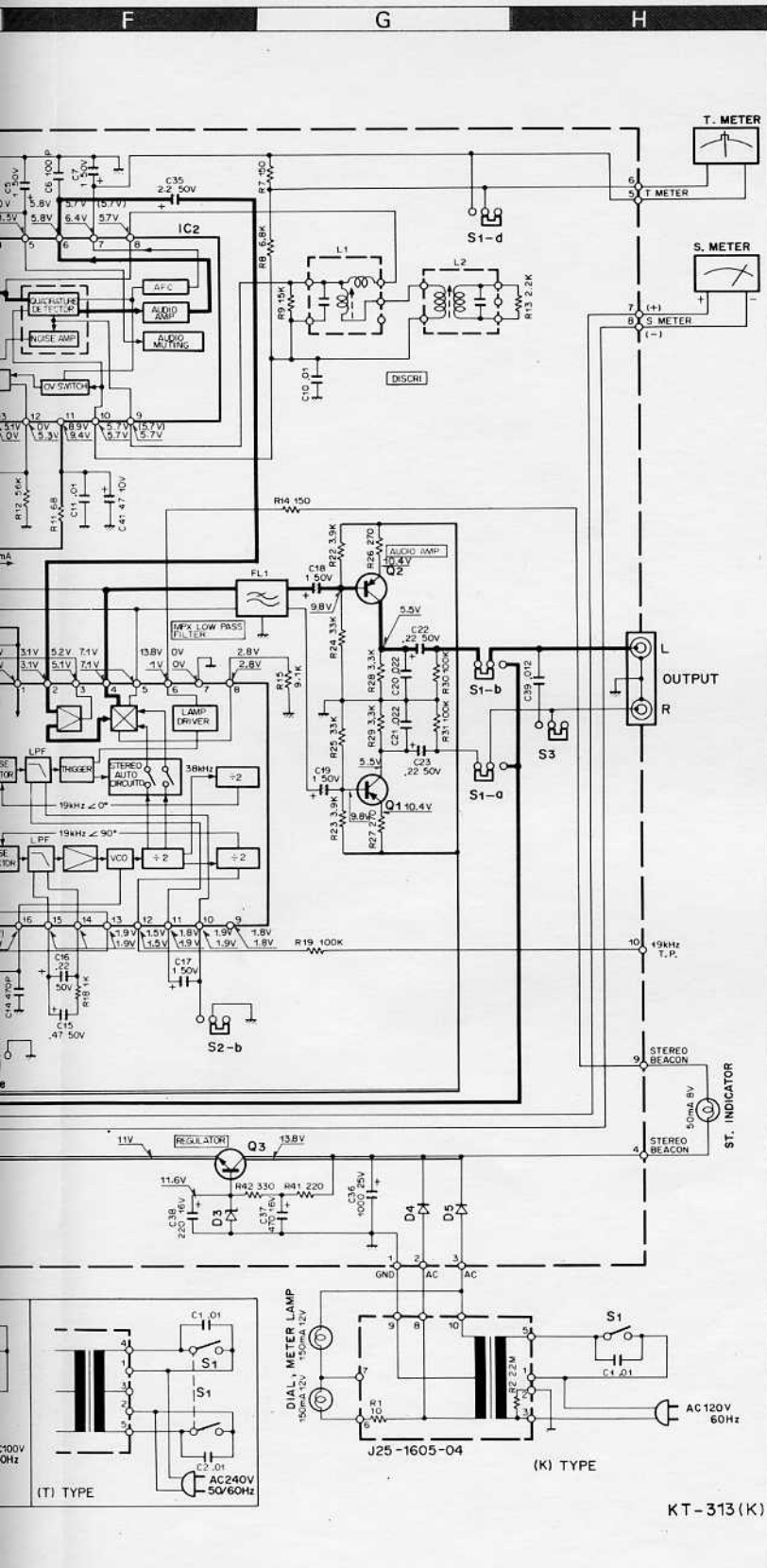
Components side



- Q1,2 : 2SA564A(Q,R)
or 2SA733A(Q,R)
- Q3 : 2SC1384(Q,R)
- D1 : 1S1555 or 1S2076
- D2 : 1N60
- D3 : EQA01-12R or WZ-115
- D4,5 : W06B
- IC1 : AN217P
- IC2 : AN377
- IC3 : AN363N



DC voltage measured with



SPECIFICATIONS

FM TUNER SECTION

Usable Sensitivity.....	10.8 dBf (1.9 μ V)
50 dB Quieting Sensitivity:	
Mono.....	17.2 dBf (4.0 μ V)
Stereo.....	38.3 dBf (45 μ V)
Signal to Noise Ratio:	
Mono.....	77 dB
Stereo.....	72 dB
Total Harmonic Distortion:	
Mono at:	
100 Hz.....	0.1%
1,000 Hz.....	0.1%
6,000 Hz.....	0.2%
50 Hz to 10,000 Hz.....	0.2%
Stereo at:	
100 Hz.....	0.19%
1,000 Hz.....	0.15%
6,000 Hz.....	0.18%
50 Hz to 10,000 Hz.....	0.3%
Capture Ratio.....	1.0 dB
Alternate Channel Selectivity.....	60 dB
Stereo Separation:	
at 1,000 Hz.....	45 dB
50 Hz to 10,000 Hz.....	35 dB
15,000 Hz.....	33 dB
Frequency Response.....	30 Hz to 15,000 Hz, +0.2 dB, -2.0 dB
Spurious Response Ratio.....	85 dB
Image Response Ratio.....	50 dB
IF Response Ratio.....	90 dB
AM Suppression Ratio.....	65 dB
Sub-Carrier Product Ratio.....	57 dB
Antenna Impedance.....	300 ohms balanced and 75 ohms unbalanced
FM Frequency Range.....	88 MHz to 108 MHz
Output Level:	
at 1,000 Hz 100% Mod.	0.75V 3.3 kohms

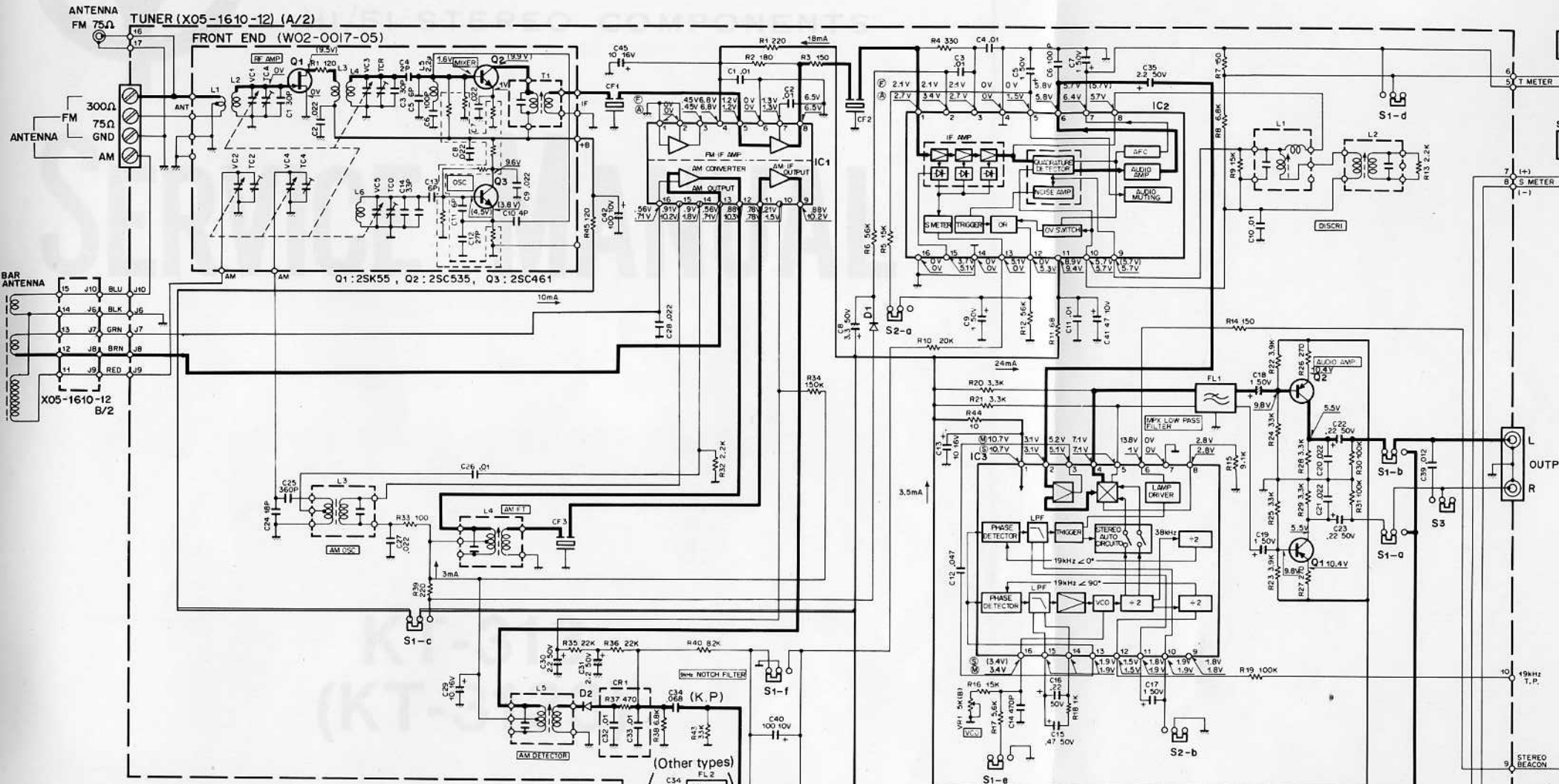
AM TUNER SECTION

Usable Sensitivity.....	16 μ V
Signal to Noise Ratio.....	50 dB
Total Harmonic Distortion.....	0.7%
Image Rejection.....	45 dB
Output Level.....	0.22V, 5.6 kohms

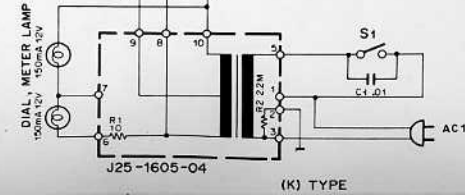
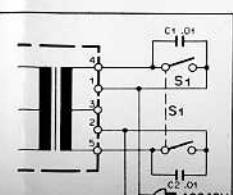
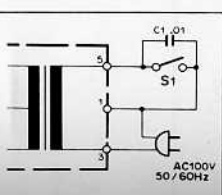
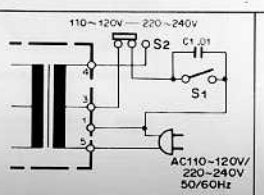
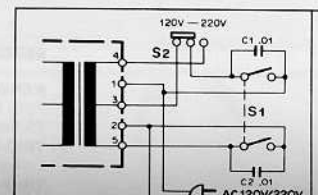
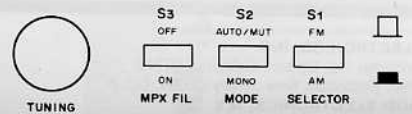
GENERAL

Power Requirements.....	60 Hz 120V (U.S.A. and Canada Model) or 50/60 Hz 110 ~ 120/220 ~ 240V switchable
Power Consumption.....	10 watts
Dimensions.....	W: 400 mm (15-6/8") H: 139 mm (5-15/32") D: 300 mm (11-26/32")
Weight (Net).....	4.3 kg (9.5 lbs)

Note: Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed



- Q1,2 : 2SA564A(Q,R) or 2SA733A(Q,R)
- Q3 : 2SC1384(Q,R)
- D1 : 1S1555 or 1S2076
- D2 : 1N60
- D3 : EQA01-12R or WZ-115
- D4,5 : W06B
- IC1 : AN217P
- IC2 : AN377
- IC3 : AN363N



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