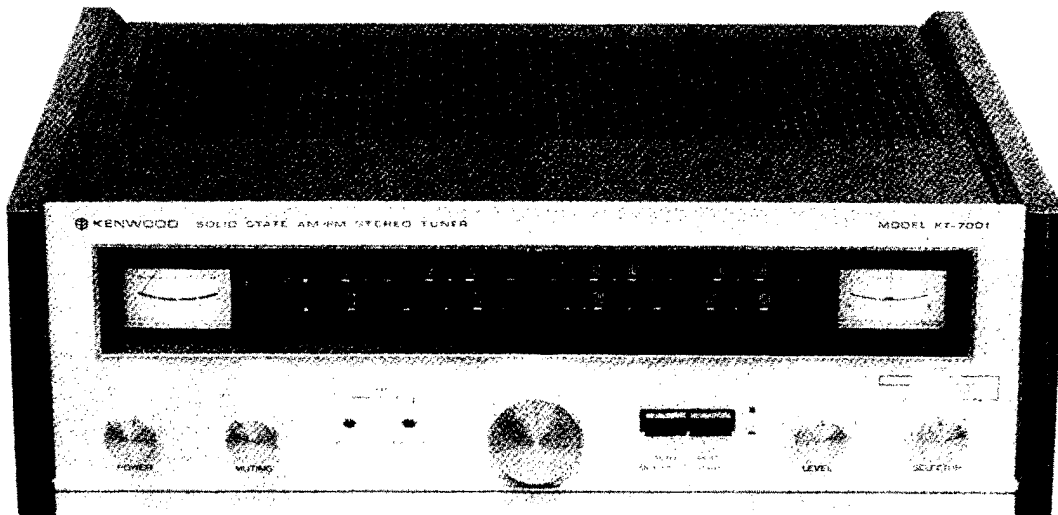


KENWOOD
HI/FI STEREO COMPONENTS

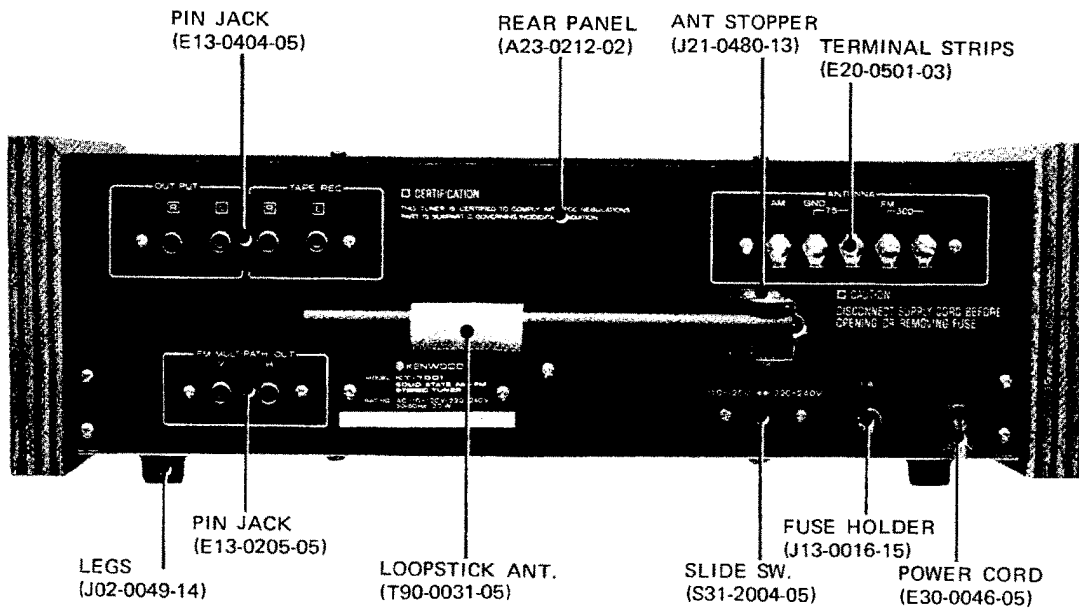
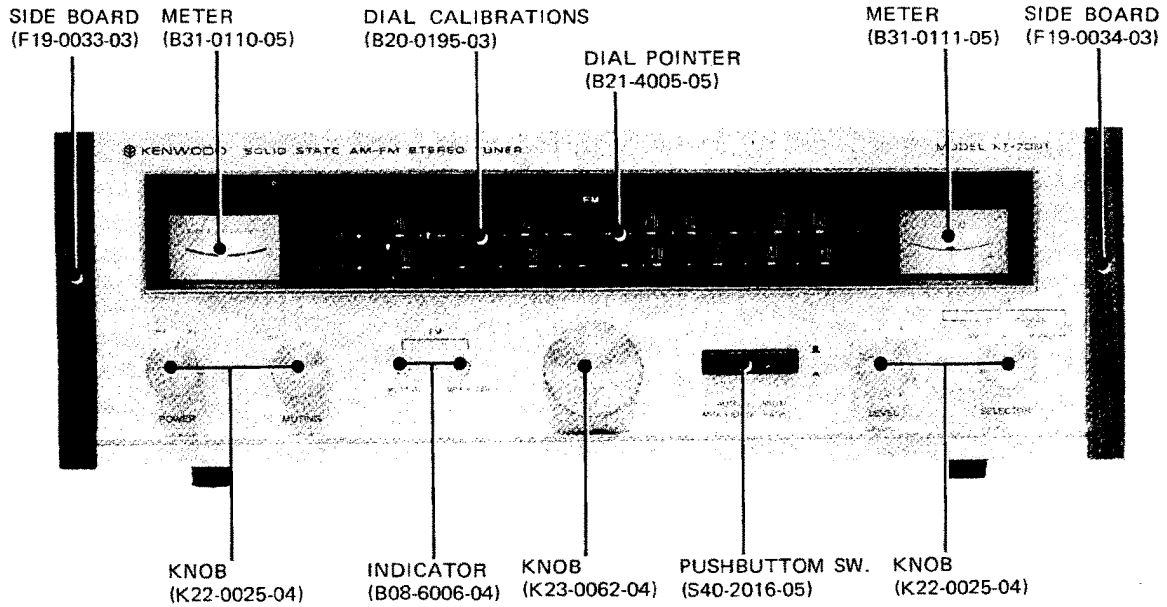
SERVICE MANUAL

KT-7001

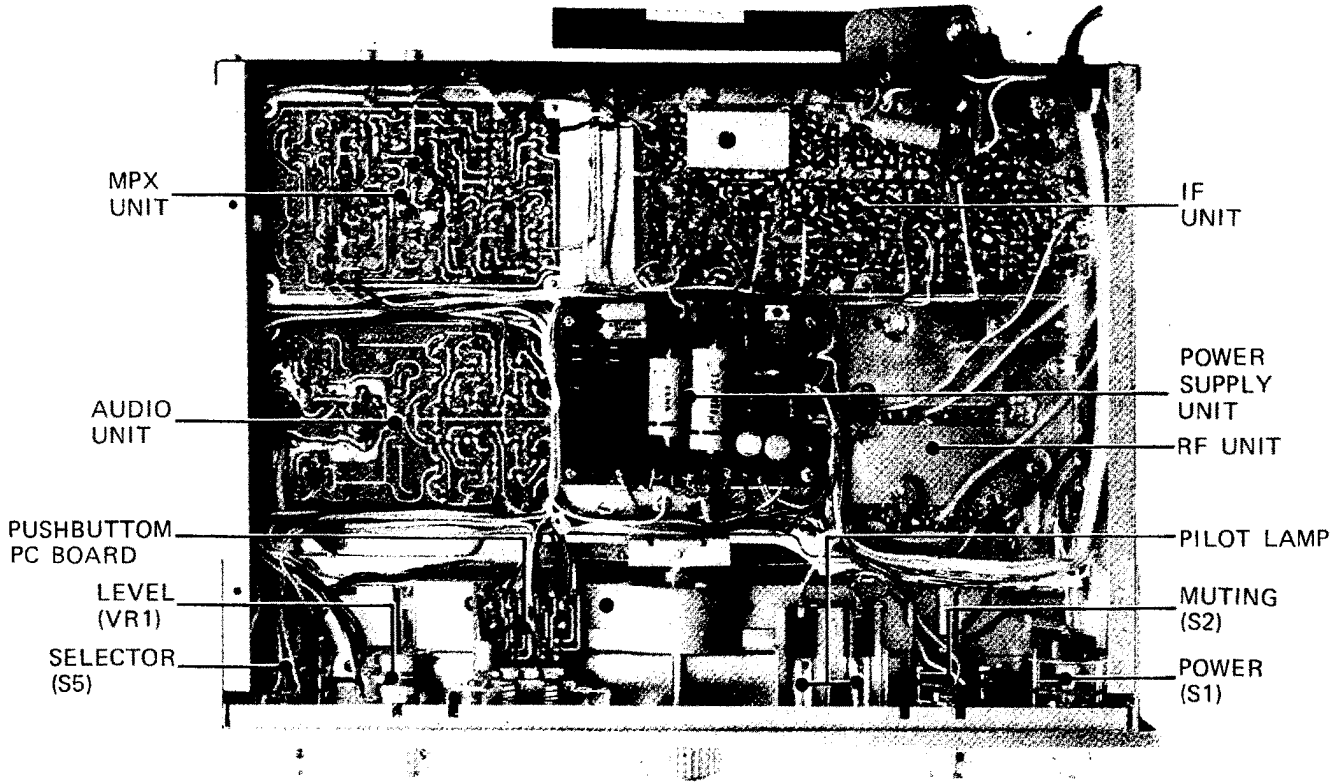
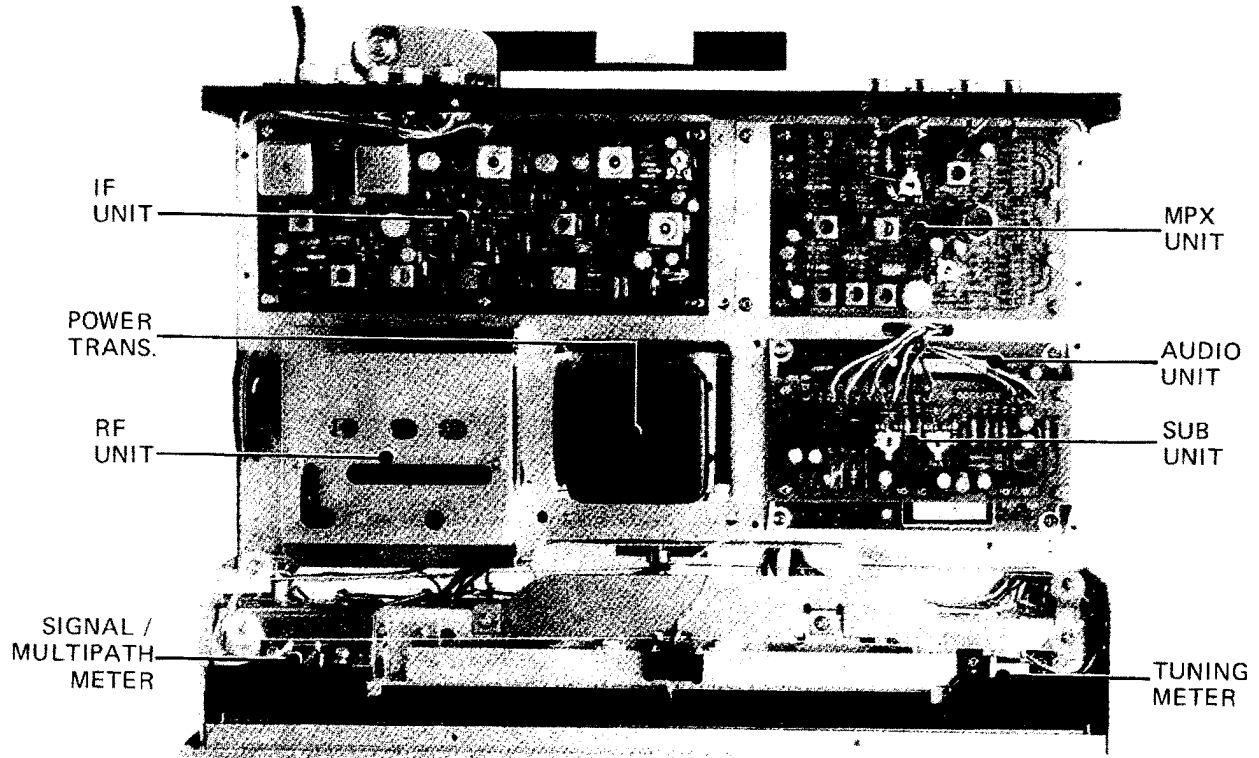


SOLID STATE AM-FM STEREO TUNER

● EXTERNAL VIEW



● TOP & BOTTOM CHASSIS VIEW



● PARTS LIST

Circuit No.	Parts No.	Description	Remarks
UNIT			
—	X00-1010-10	REGULATOR unit	
—	X01-1000-10	RF unit	
—	X02-1000-10	IF unit	
—	X13-1000-10	SUB unit	
—	X04-1000-10	MPX unit	
—	X08-1000-10	AUDIO unit	
CAPACITOR			
C1	C90-0036-05	Oil filled	0.01 μ F \pm 20%
C2	CE04W0F101	PC electrolytic	100 μ F 3.15WV
C3	CK94YG1E403Z	Ceramic	0.04 μ F +80% -20%
RESISTOR			
R1	RC05GF2H225K	Carbon composition	2.2M Ω \pm 10% 1/2W
R2	RC05GF2H104K	Carbon composition	100k Ω \pm 10% 1/2W
R3	RC05GF2H180K	Carbon composition	18 Ω \pm 10% 1/2W
R4	PD14BY2E104J	Insulated carbon film	100k Ω \pm 5% 1/4W
R5	PD14BY2B330J	Insulated carbon film	33 Ω \pm 5% 1/8W
R6	PD14BY2E103J	Insulated carbon film	10k Ω \pm 5% 1/4W
R7	PD14BY2E332J	Insulated carbon film	3.3k Ω \pm 5% 1/4W
SWITCH			
S1	S05-1016-05	POWER (Rotary) F · 1 · 2 · 2	
S2	S04-1027-05	MUTING (Rotary) F · 1 · 3 · 3	
S3	S40-2016-05	MULTIPATH (Two pushbuttons)	
S4	S40-2016-05	FILTER (Two pushbuttons)	
S5	S04-3009-05	SELECTOR (Rotary) F · 3 · 9 · 4	
S6	S31-2004-05	AC VOLTAGE SELECTOR (Slide)	
POTENTIOMETER/DIODE			
VR1 D1, 2	R08-4047-05	LEVEL 50k Ω (B) dual 10D1	
MISCELLANEOUS			
—	A01-0134-03	Case	
—	A10-0249-01	Chassis	
—	A20-0391-02	Panel	
—	A22-0096-12	Sub panel	
—	A23-0212-02	Rear panel	
—	A40-0065-02	Bottom plate	
—	B07-0072-05	Indicator escutcheon	
—	B08-6006-04	Indicator	
—	B10-0052-04	Front glass	
—	B19-0102-04	Filter	
—	B20-0195-03	Dial calibrations	
—	B21-4005-05	Dial pointer	
P.L.	B30-0015-15	Pilot lamp	
P.L.	B30-0029-15	Pilot lamp	
P.L.	B30-0039-05	Pilot lamp	
M	B31-0110-05	Signal meter	
M	B31-0111-05	Tuning meter	
—	B40-0483-04	Destination plate	
—	B42-0009-04	"Passed" sticker	
—	B42-0161-04	Loopstick antenna sticker	
—	B42-0267-04	Caution sticker	
—	B42-0271-04	Multipath sticker	

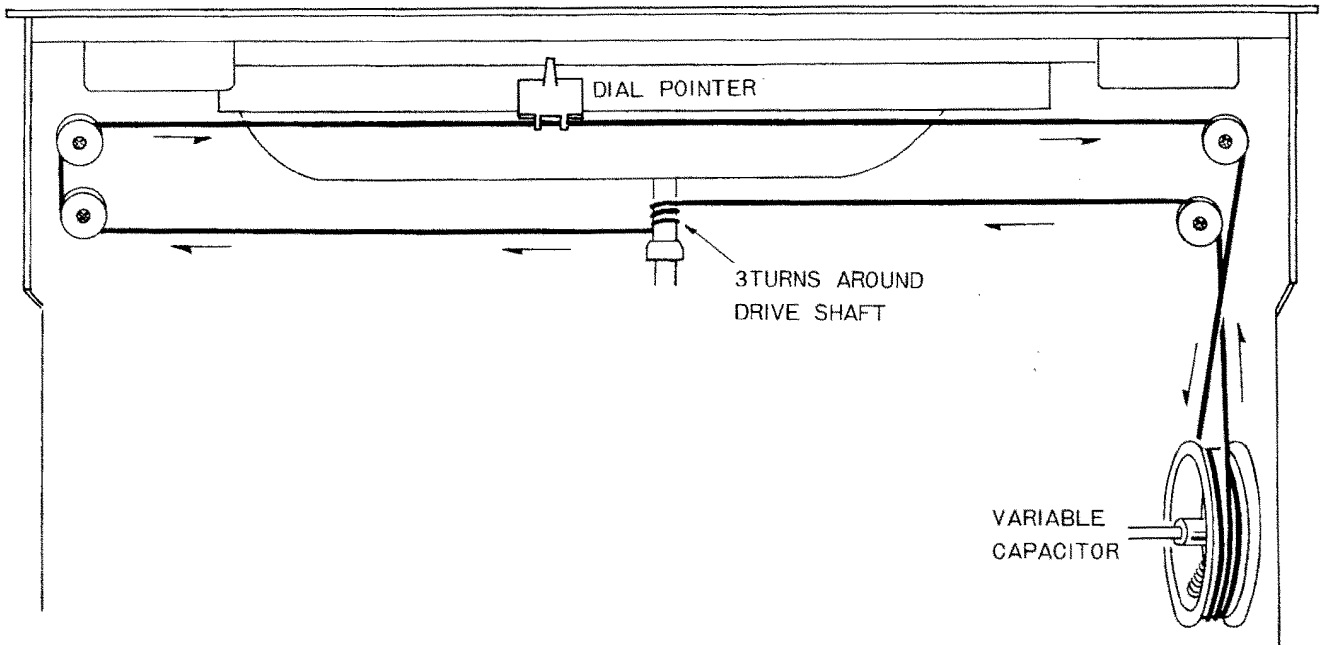
● PARTS LIST

Circuit No.	Parts No.	Description	Remarks
—	B42-0272-04	Sticker	
—	B46-0002-00	Warranty card	
—	*B46-0003-00	Warranty card	(U)
—	*B50-0614-00	Instruction manual	(K)
—	*B50-0617-00	Instruction manual	(U)
—	B52-0093-00	Schematic diagram	
—	*B58-0003-00	Power supply caution card	(U)
—	*B58-0043-00	Carbon case caution card	(K)
—	B58-0101-00	Power voltage caution card	
—	*B59-0018-00	KENWOOD service station list	(U)
—	D01-0009-05	Flywheel	
—	D15-0037-04	Small pulley	
—	D15-0067-14	Pulley	
—	D20-0084-03	Dial shaft	
—	D23-0060-04	Shaft bearing	
—	D32-0021-04	Switch stopper	
J	E18-0205-05	2P pin jack	
J	E18-0404-05	4P pin jack	
—	E15-0038-05	Pilot lamp socket	
—	E20-0501-03	Terminal strips	
—	E30-0046-05	Power cord	
—	E30-0050-05	Audio cord	
F	F05-1023-05	Fuse (1A)	
—	F07-0011-04	Lamp cover	
—	F07-0195-04	Shield plate	
—	F19-0033-03	Left side board	
—	F19-0034-03	Right side board	
—	G01-0044-04	Dial spring	
—	H01-0606-04	Carton case (Inside)	
—	*H03-0021-04	Carton case (Outside)	(K)
—	J02-0049-14	Legs	
—	J13-0016-15	Fuse holder	
—	J13-0023-05	Pilot lamp holder	
—	J19-0130-04	Pushbutton stopper	
—	J21-0192-04	Amp. stopper	
—	J21-0438-04	Indicator stopper	
—	J21-0480-13	Ant. stopper	
—	J21-0761-04	Dial stopper (L)	
—	J21-0762-04	Dial stopper (R)	
—	J21-0763-04	Escutcheon stopper	
—	J21-0764-04	Frontglass stopper	
—	J21-0765-04	Unit stopper	
—	J21-0766-04	Lamp stopper	
—	J21-0768-03	Meter stopper	
—	J25-0527-04	PC board	
—	K22-0025-04	Knob (Power, muting, level, selector)	
—	K23-0062-04	Knob (Tuning)	
P.T.	L03-0022-05	Power transformer	

● PARTS LIST

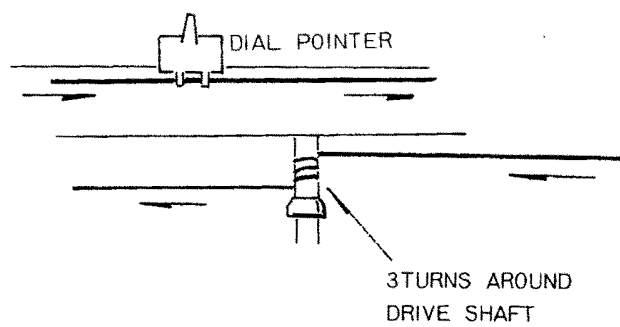
Circuit No.	Parts No.	Description	Remarks
-	L19-0009-05	Balun transformer	
L1	L33-0025-05	Choke coil	
-	T90-0002-05	FM indoor antenna	
-	T-90-0031-05	Loopstick antenna	
	* In North America leave out the parts of (U). In other do out the parts of (K).		

● DIAL CORD STRINGING



CORRECTION

Please correct the figure of " dial cord stringing " on page 8 in the service manual KT-7001 as shown below.



● ALIGNMENT PROCEDURE

■ FM SECTION

STEP	ALIG.	FM SSG		TUNING DIAL SETTING	VTVM or SCOPE COUPLE	ADJUST	CHECK
		COUPLING	SIGNAL				
1	IF trans.	FM antenna terminal	98MHz (overmod.)	98MHz	SCOPE to the MULTIPATH	(X01-1000-10) La8 (X02-1000-10) Lb1	Best waveform.
2	DISCRIMINATOR	—	—	98MHz	SCOPE to the output jack	(X02-1000-10) Lb2 Prim.	"Center position" meter indicates
3	RF	FM antenna terminal	90MHz 400Hz (Mod.) 75kHz (Dev.) 1.5 ~ 2 μ V	90MHz	VTVM to the output jack	(X01-1000-10) La4	Turn it to receive the SSG freq.
4	RF	FM antenna terminal	90MHz 400Hz (Mod.) 75kHz (Dev.) 1.5 ~ 2 μ V	90MHz	VTVM to the output jack	(X01-1000-10) La1 ~ 3	Adjust the sensitivity to be maximum
5	RF	FM antenna terminal	106MHz 400Hz (Mod.) 75kHz (Dev.) 1.5 ~ 2 μ V	106MHz	VTVM to the output jack	(X01-1000-10) CTa4	Turn it to receive the SSG freq.
6	RF	FM antenna terminal	106MHz 400Hz (Mod.) 75kHz (Dev.) 1.5 ~ 2 μ V	106MHz	VTVM to the output jack	(X01-1000-10) CTa1 ~ 3	Adjust sensitivity to be maximum
7	Repeat steps 3 ~ 6 until no further improvement is possible.						
8	RF	FM antenna terminal	90MHz 400Hz (overmod.)	90MHz	SCOPE to the MULTIPATH jack	(X01-1000-10) La1 ~ 3	Best waveform.
9	RF	FM antenna terminal	106MHz 400Hz (overmod.)	106MHz	SCOPE to the MULTIPATH jack	(X01-1000-10) CTa1 ~ 3	Best waveform.
10	TUNING METER	FM antenna terminal	90MHz 400Hz (Mod.) 75kHz (Dev.) 1mV	98MHz	DISTORTION METER to the output jack	(X02-1000-10) Lb2 sec.	Minimum deflection
11	TUNING METER	FM antenna terminal	90MHz 400Hz (Mod.) 75kHz (Dev.) 1mV	98MHz	VTVM to the output jack	(X02-1000-10) VRb2	Output to be 1.5 V
12	Set the tuning meter properly.						
13	SIGNAL METER	FM antenna terminal	98MHz (unmod.) 100 μ V	98MHz	VTVM to the output jack	(X02-1000-10) Lb3	Maximum deflection
14	SIGNAL METER	FM antenna terminal	98MHz (unmod.) 100 μ V	98MHz	—	(X02-1000-10) VRb3	"4.5" S-meter indicates
15	Set the MUTING to 1.						
16	MUTING	FM antenna terminal	98MHz (unmod.) 100 μ V	98MHz	VTVM to the TEST POINT (A)	(X02-1000-10) Lb4	Maximum deflection
17	MUTING	FM antenna terminal	98MHz (unmod.) 1mV	98MHz	VTVM to the TEST POINT (A)	—	Check the value of VTVM (standard level)
18	MUTING	FM antenna terminal	98MHz (unmod.) 6.3 μ V	98MHz	VTVM to the TEST POINT (A)	(X02-1000-10) VRb1	The value of 70% standard level
19	MUTING	FM antenna terminal	98MHz (unmod.) 6.3 μ V	98MHz	VTVM to the TEST POINT (A)	(X02-1000-10) VRb4	more 10 V d.c. appears at TEST POINT (B)

STEP	ALIG.	FM SSG		TUNING DIAL SETTING	VTVM or SCOPE COUPLING	ADJUST	CHECK
		COUPLING	SIGNAL				
* 20	MULTIPATH METER	FM antenna terminal	98MHz (unmod.) 1mV	98MHz	—	(X13-1000-10) VRs1	meter not swings
21	MULTIPATH METER	FM antenna terminal	98MHz (400Hz (30% AM) 100μV)	98MHz	—	(X13-1000-10) VRs2	Minimum deflection
*	Not need to adjust STEP 20 in case of one variable resistor.						

■ SCA FILTER SECTION

STEP	AUDIO SIGNAL GENERATOR COUPLING	AUDIO SIGNAL GENERATOR FREQ.	AC VTVM & SCOPE COUPLING	ADJUST	CHECK
1	TEST POINT (C)	66kHz 300mV	TEST POINT (D)	(X04-1000-10) Lc6	Minimum deflection
2	TEST POINT (C)	72kHz 300mV	TEST POINT (D)	(X04-1000-10) Lc7	Minimum deflection

■ MPX SECTION

STEP	FM SSG			19kHz PILOT	VTVM & SCOPE COUPLING	ADJUST	CHECK
	COUPLING	MOD. FREQ.	SELECTOR				
1	TEST POINT (C)	98MHz 400Hz (Mod) 67.5kHz (Dev.) 150mV	NORMAL	ON	TEST POINT (E)	(X04-1000-10) Lc1, 2, 5	Maximum deflection
2	TEST POINT (C)	98MHz 400Hz (Mod) 67.5kHz (Dev.) 150mV	NORMAL	ON	TEST POINT (F)	(X04-1000-10) Lc3, 4	Maximum deflection
3	TEST POINT (C)	98MHz 400Hz (Mod.) 40kHz (Dev.) 84mV	NORMAL	ON	—	(X04-1000-10) VRc2	"STEREO" indicator on.
4	TEST POINT (C)	38kHz	NORMAL	—	Output jack	(X04-1000-10) Lc4	Maximum deflection
5	TEST POINT (C)	98MHz 4kHz (Mod.) 67.5kHz (Dev.) 150mV	NORMAL	—	Output jack	(X04-1000-10) VRc1	Separation properly

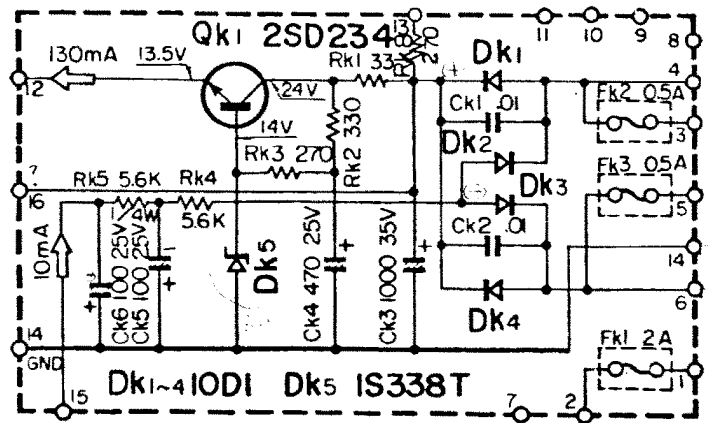
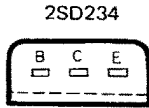
● ALIGNMENT PROCEDURE

■ AM SECTION

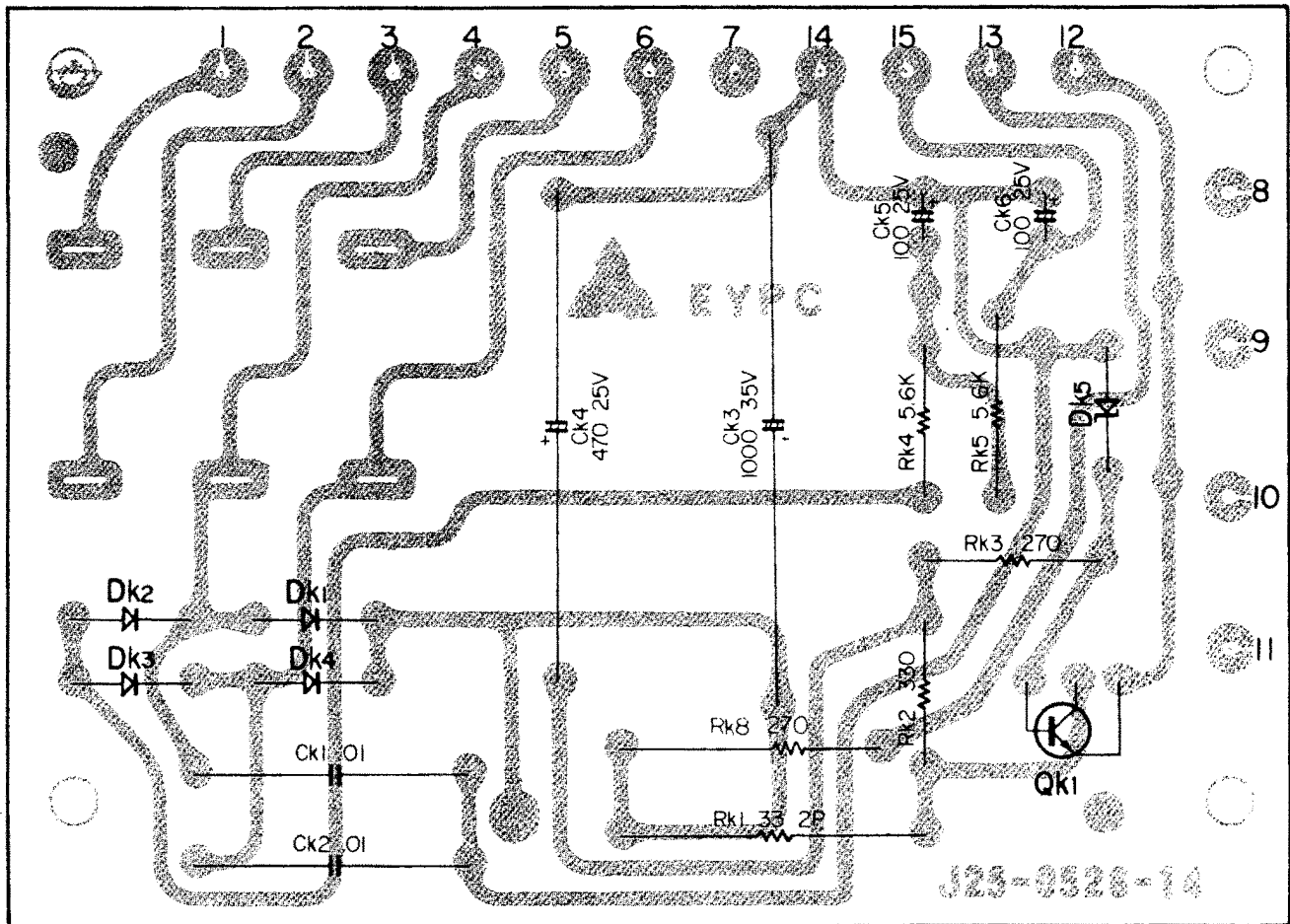
STEP	ALIG	SG/SWEEP G.		TUNING DIAL SETTING	VTVM & OSC COUPLING	ADJUST	CHECK
		COUPLING	SIGNAL				
1	IF Trans.	SWEEP to TEST POINT (G)	455kHz	Any non-interfering	TEST POINT (H)	(X02-1000-10) Lb6	Maximum amplitude and symmetry with 455kHz marker centered on response
2	RF	SG to AM antenna terminal	600kHz 400Hz (30% Mod)	600kHz	Output jack	(X02-1000-10) Lb8, Lb5 Loopstick antenna	With Lb8 correspond to SG freq. With Loopstick antenna, Lb5 the sensitivity to be maximum.
3	RF	SG to AM antenna terminal	1,400kHz 400Hz (30% Mod)	1,400kHz	Output jack	(X01-1000-10) CTa8, 7	With CTa8 correspond to SG freq. With CTa7 the sensitivity to be maximum.
4	Repeat steps 2, 3 until no further improvement is possible.						
5	METER	SG to AM antenna terminal	1000kHz 400Hz (30% Mod)	1000kHz	—	(X02-1000-10) VRb5	"5" S-meter indicates

SCHEMATIC DIAGRAM

BOTTOM VIEW OF TRANSISTOR



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



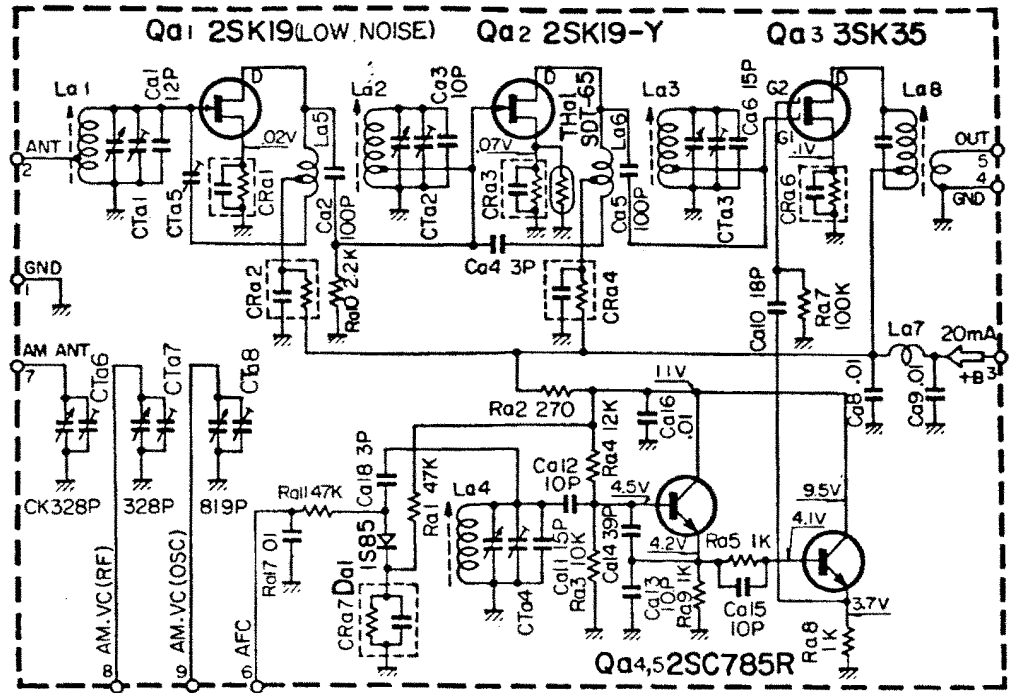
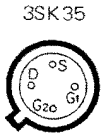
Qk1: 2SD-234, Dk1~4: 10D1, Dk5: IS338T

**KENWOOD****REGU(X00-1010-10) SECTION****PARTS DESCRIPTION LIST**

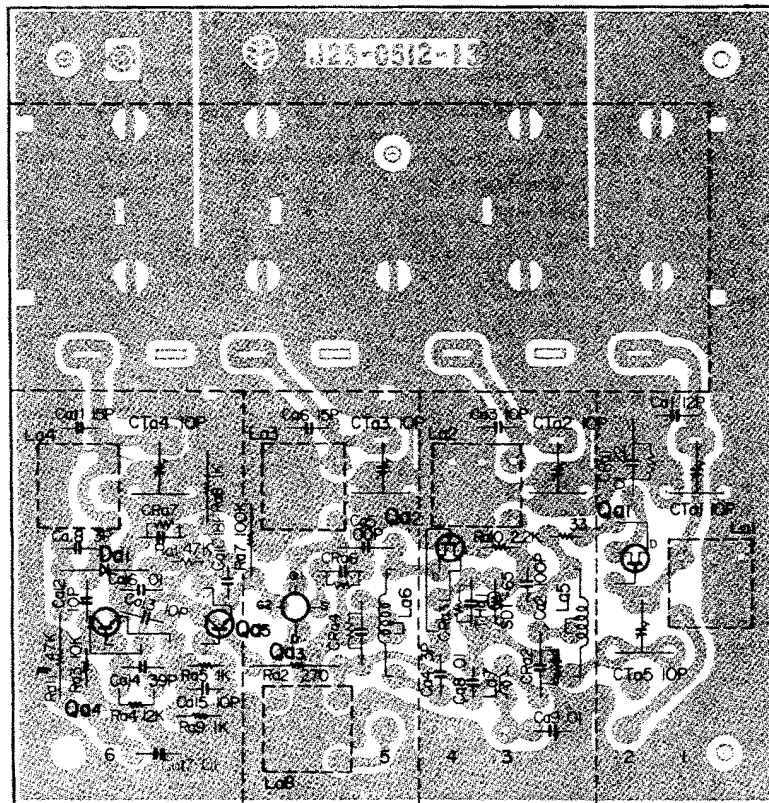
Circuit No.	Parts No.	Description	Remarks
CAPACITOR			
Ck1, 2	CP02B2J103M	Oil filled 0.01 μ F \pm 20%	
Ck3	CE02W1V102	Electrolytic tubular 1000 μ F 35WV	
Ck4	CE02W1E471	Electrolytic tubular 470 μ F 25WV	
Ck5, 6	CE04W1E101	PC electrolytic 100 μ F 25WV	
RESISTOR			
Rk1	RW14AG3D330K	Wire wound 33 Ω \pm 10% 2W	
Rk2	RC05GF2H331K	Carbon composition 330 Ω \pm 10% 1/2W	
Rk3	RC05GF2H271K	Carbon composition 270 Ω \pm 10% 1/2W	
Rk4, 5	PD14BY2E562K	Insulated carbon film 5.6k Ω \pm 10% 1/4W	
Rk8	RC05GF2H101K	Carbon composition 100 Ω \pm 10% 1/2W	
TRANSISTOR/DIODE			
Qk1		2SD234	
Dk1 ~ 4		10D1	
Dk5		1S338T	
PC BOARD			
-	J25-0528-04	PC Board	

SCHEMATIC DIAGRAM

BOTTOM VIEW OF TRANSISTOR



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Qa1: 2SK19 (LOW NOISE), Qa2: 2SK19-Y, Qa3: 3SK35-Y or GR, Qa4: 2SC758-R, Qa5: 2SC758-R

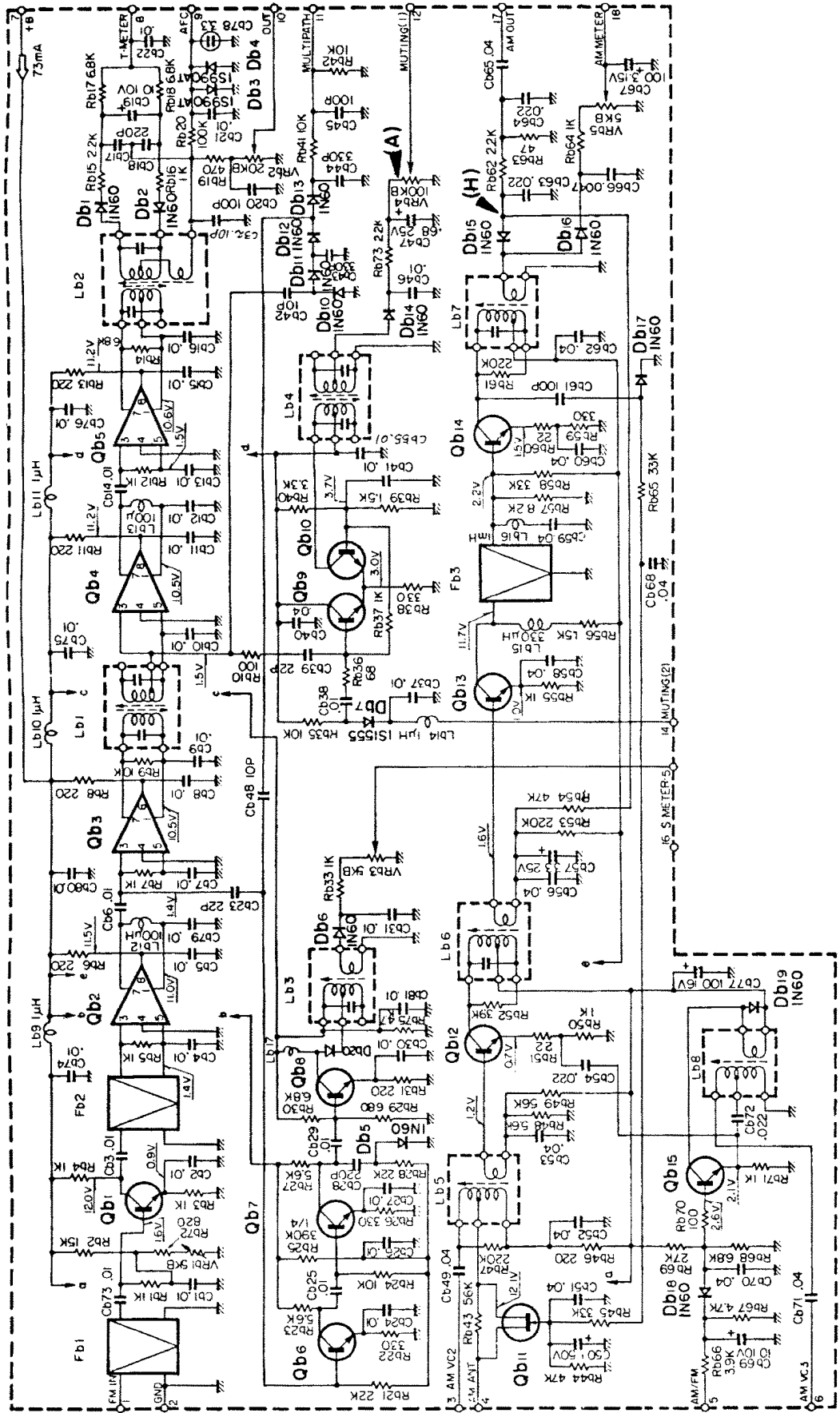
PARTS DESCRIPTION LIST

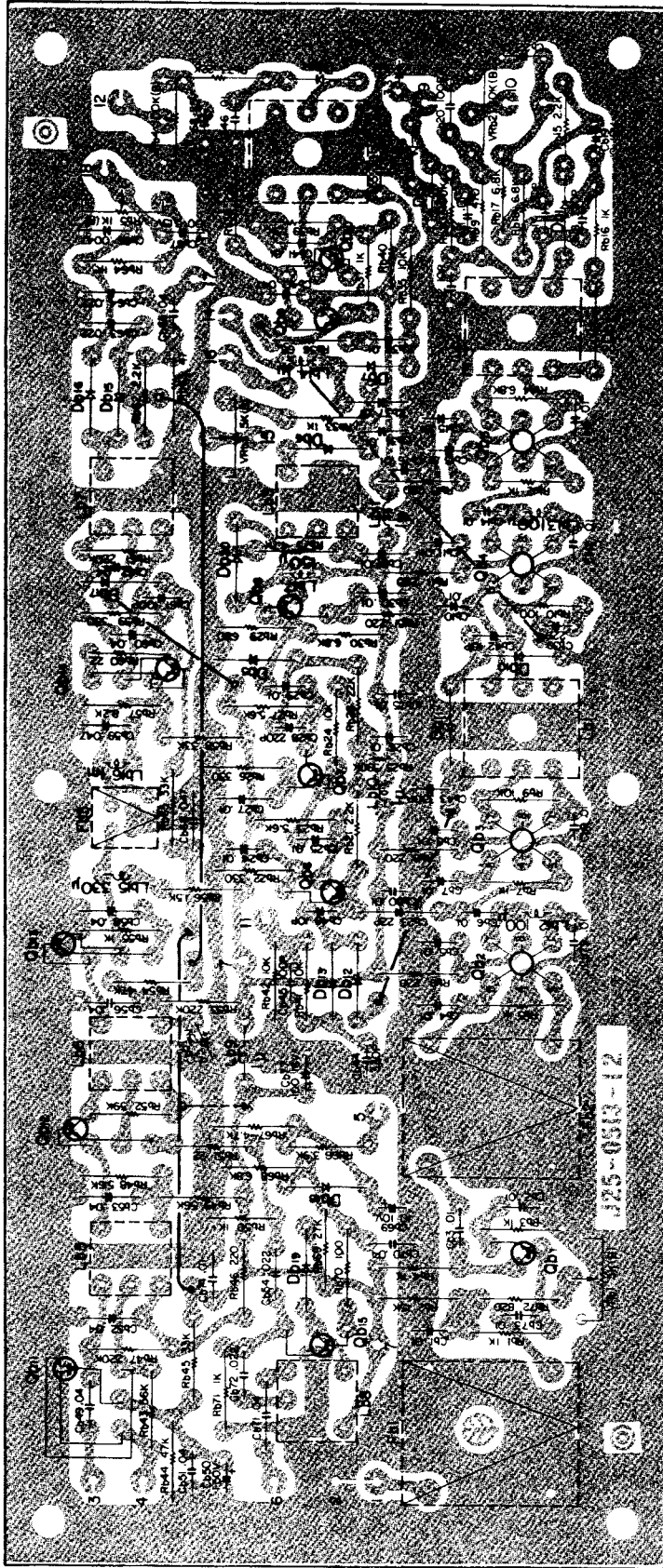
Circuit No.	Parts No.	Description	Remarks
CAPACITOR			
Ca1	CC94SH1H120K	TC Ceramic	12pF ±10%
Ca2	CC94SL1H101K	TC Ceramic	100pF ±10%
Ca3	CC94SH1H100K	TC Ceramic	10pF ±10%
Ca4	CC94SL1H030C	TC Ceramic	3pF ±0.25pF
Ca5	CC94SL1H101K	TC Ceramic	100pF ±10%
Ca6	CC94SH1H150K	TC Ceramic	15pF ±10%
Ca8, 9	CK94YG1H103Z	Ceramic	0.01μF +80% -20%
Ca10	CC94SG1H180K	TC Ceramic	18pF ±10%
Ca11	CC94TH1H150J	TC Ceramic	15pF ±5%
Ca12, 13	CC94TH1H100J	TC Ceramic	10pF ±5%
Ca14	CC94TH1H390J	TC Ceramic	39pF ±5%
Ca15	CC94TH1H100J	TC Ceramic	10pF ±5%
Ca16, 17	CK94YG1H103Z	Ceramic	0.01μF +80% -20%
Ca18	CC94SG1H030C	TC Ceramic	3pF ±0.25pF
RESISTOR			
Ra1	PD14BY2B473J	Insulated Carbon Film	47kΩ ±5% 1/8W
Ra2	PD14BY2B271J	Insulated Carbon Film	270Ω ±5% 1/8W
Ra3	PD14BY2B103J	Insulated Carbon Film	10kΩ ±5% 1/8W
Ra4	PD14BY2B123J	Insulated Carbon Film	12kΩ ±5% 1/8W
Ra5	PD14BY2B102J	Insulated Carbon Film	1kΩ ±5% 1/8W
Ra7	PD14BY2B104J	Insulated Carbon Film	100kΩ ±5% 1/8W
Ra8, 9	PD14BY2B102J	Insulated Carbon Film	1kΩ ±5% 1/8W
Ra10	PD14BY2B222J	Insulated Carbon Film	2.2kΩ ±5% 1/8W
Ra11	PD14BY2B473J	Insulated Carbon Film	47kΩ ±5% 1/8W
CRa1	R90-0070-05	C-R Composite Parts	22Ω + 0.01μF
CRa2	R90-0071-05	C-R Composite Parts	220Ω + 0.01μF
CRa3	R90-0072-05	C-R Composite Parts	2.2kΩ + 0.01μF
CRa4	R90-0071-05	C-R Composite Parts	220Ω + 0.01μF
CRa6	R90-0074-05	C-R Composite Parts	270Ω + 0.01μF
CRa7	R90-0072-05	C-R Composite Parts	2.2kΩ + 0.01μF
COIL			
La1	L34-0301-04	FM-ANT Coil	
La2, 3	L34-0358-05	FM-RF Coil	
La4	L34-0290-04	OSC Coil	
La5, 6	L33-0027-04	Choke Coil	
La7	L33-0086-05	Choke Coil	
La8	L30-0210-05	FM-1F Trans.	
TRANSISTOR/DIODE/THERMISTOR			
Qa1		2SK19 (LOW NOISE)	
Qa2		2SK19 (Y)	
Qa3		3SK35 (GR) or (Y)	
Qa4, 5		2SC785 (R)	
Da1		1S85 (White)	
THa1		SDT65	
MISCELLANEOUS			
CTa1 ~ 4	C05-0010-15	Ceramic Trimmer	
CTa5	C05-0009-15	Ceramic Trimmer	
VC	C01-0156-05	Variable Capacitor	
—	F07-0191-03	Shield Case	
—	J25-0512-03	PC Board	



KENWOOD IF (X02-1000-10) SECTION

(KT-7001)





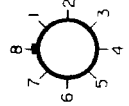
Qb1, e~o 25C381(O), Qb2, CS5995(R), Qb3~5, CS5995(B), Qb6, 7, 13, 14, 25C378(R), Qb11, 35K30(Y), Qb12, 16, 25C378(O), Dbr1, 2, 3, 4~00: IN60, Dbr3, 4: IS990AT, Dbr7: IS1555

BOTTOM VIEW OF TRANSISTOR

25C 378
25C 381



CS 5995



35K30



Cb55	CK94YG1E103Z	Ceramic	0.01 μ F	+80%	-20%
Cb56	CK94YG1E473Z	Ceramic	0.047 μ F	+80%	-20%
Cb57	or CK94YG1E403Z	Ceramic	or 0.04 μ F	+80%	-20%
Cb58 ~ 60	CE04W1E3R3	PC Electrolytic	3.3 μ F	±25WV	
Cb61	CK94YG1E473Z	Ceramic	0.047 μ F	+80%	-20%
Cb62	or CK94YG1E403Z	Ceramic	or 0.04 μ F	+80%	-20%
Cb63, 64	CC94SL1H101K	TC ceramic	100PF	±10%	
Cb65	CK94YG1E473Z	Ceramic	0.047 μ F	+80%	-20%
Cb66	or CK94YG1E403Z	Ceramic	or 0.04 μ F	+80%	-20%
Cb67	CK94Y1H472M	Ceramic	0.0047 μ F	±20%	
Cb68	CE04W0F101	PC Electrolytic	100 μ F	3.15WV	
Cb69	CK94YG1E473Z	Ceramic	0.047 μ F	+80%	-20%
Cb70, 71	or CK94YG1E403Z	Ceramic	or 0.04 μ F	+80%	-20%
Cb72	CE04W1A100	PC Electrolytic	10 μ F	10WV	
Cb73 ~ 76	CK94YG1E103Z	Ceramic	0.022 μ F	+80%	-20%
Cb77	CE04W1C101	PC Electrolytic	0.01 μ F	+80%	-20%
Cb78	CE04W1C3R3NP	Non-Pole Electrolytic	3.3 μ F	16WV	
Cb79 ~ 81	CK94YG1E103Z	Ceramic	0.01 μ F	+80%	-20%

RESISTOR

Rb1	PD14BY2B102J	Insulated Carbon Film	1k Ω	±5%	1/8W
Rb2	PD14BY2B153J	Insulated Carbon Film	15k Ω	±5%	1/8W
Rb3 ~ 5	PD14BY2B102J	Insulated Carbon Film	1k Ω	±5%	1/8W
Rb6	PD14BY2B221J	Insulated Carbon Film	220 Ω	±5%	1/8W
Rb7	PD14BY2B102J	Insulated Carbon Film	1k Ω	±5%	1/8W
Rb8	PD14BY2B221J	Insulated Carbon Film	220 Ω	±5%	1/8W
Rb9	PD14BY2B103J	Insulated Carbon Film	10k Ω	±5%	1/8W
Rb10	PD14BY2B101J	Insulated Carbon Film	100 Ω	±5%	1/8W
Rb11	PD14BY2B221J	Insulated Carbon Film	220 Ω	±5%	1/8W
Rb12	PD14BY2B102J	Insulated Carbon Film	1k Ω	±5%	1/8W
Rb13	PD14BY2B221J	Insulated Carbon Film	220 Ω	±5%	1/8W
Rb14	PD14BY2B682J	Insulated Carbon Film	6.8k Ω	±5%	1/8W
Rb15	PD14BY2B222J	Insulated Carbon Film	2.2k Ω	±5%	1/8W
Rb16	PD14BY2B102J	Insulated Carbon Film	1k Ω	±5%	1/8W
Rb17, 18	PD14BY2B682J	Insulated Carbon Film	6.8k Ω	±5%	1/8W
Rb19	PD14BY2B471J	Insulated Carbon Film	470 Ω	±5%	1/8W
Rb20	PD14BY2B104J	Insulated Carbon Film	100k Ω	±5%	1/8W
Rb21	PD14BY2B222J	Insulated Carbon Film	2.2k Ω	±5%	1/8W
Rb22	PD14BY2B331J	Insulated Carbon Film	330 Ω	±5%	1/8W
Rb23	PD14BY2B562J	Insulated Carbon Film	5.6k Ω	±5%	1/8W
Rb24	PD14BY2B103J	Insulated Carbon Film	10k Ω	±5%	1/8W
Rb25	PD14CY2E394J	Insulated Carbon Film	390k Ω	±5%	1/4W
Rb26	PD14BY2B331J	Insulated Carbon Film	330 Ω	±5%	1/8W
Rb27	PD14BY2B562J	Insulated Carbon Film	5.6k Ω	±5%	1/8W
Rb28	PD14BY2B223J	Insulated Carbon Film	22k Ω	±5%	1/8W
Rb29	PD14BY2B681J	Insulated Carbon Film	680 Ω	±5%	1/8W
Rb30	PD14BY2B682J	Insulated Carbon Film	6.8k Ω	±5%	1/8W
Rb31	PD14BY2B221J	Insulated Carbon Film	220 Ω	±5%	1/8W
Rb33	PD14BY2B102J	Insulated Carbon Film	1k Ω	±5%	1/8W
Rb35	PD14BY2B103J	Insulated Carbon Film	10k Ω	±5%	1/8W

Rb66	PD14BY2B392J	Insulated Carbon Film	3.9k Ω	±5%	1/8W
Rb67	PD14BY2B472J	Insulated Carbon Film	4.7k Ω	±5%	1/8W
Rb68	PD14BY2B682J	Insulated Carbon Film	6.8k Ω	±5%	1/8W
Rb69	PD14BY2B273J	Insulated Carbon Film	27k Ω	±5%	1/8W
Rb70	PD14BY2B101J	Insulated Carbon Film	100 Ω	±5%	1/8W
Rb71	PD14BY2B102J	Insulated Carbon Film	1k Ω	±5%	1/8W
Rb72	PD14BY2B821J	Insulated Carbon Film	820 Ω	±5%	1/8W
Rb73	PD14BY2B223J	Insulated Carbon Film	22k Ω	±5%	1/8W
Rb75	PD14BY2B472J	Insulated Carbon Film	4.7k Ω	±5%	1/8W

TRANSISTOR/DIODE

Db1	2SC381 (O)	
Db2	CSS5995 (R)	
Db3 ~ 5	CSS5995 (B)	
Db6, 7	2SC381 (R)	
Db8 ~ 10	2SC381 (O)	
Db11	2SK30 (Y1)	
Db12	2SC378 (O)	
Db13, 14	2SC381 (R)	
Db15	2SC378 (O)	
Db1, 2	1N60	
Db3, 4	1S990AT	
Db5, 6	1N60	
Db7	1S1555	
Db10 ~ 20	1N60	

COIL/POTENTIOMETER

Lb1	L30-0206-05	FM-I FT
Lb2	L30-0207-05	DESCRI
Lb3	L30-0148-05	FM-I FT
Lb4	L30-0206-15	FM-I FT
Lb5	L31-0210-05	AM-RF
Lb6	L30-0018-05	AM-I FT
Lb7	L30-0019-05	AM-I FT
Lb8	L32-0090-05	AM-OSC
Lb9 ~ 11	L33-0128-05	Choke Coil
Lb12, 13	or L33-0086-05	Choke Coil
Lb14	L33-0096-05	Choke Coil
Lb15	L33-0100-05	Choke Coil
Lb16	L33-0103-05	Choke Coil
Lb17	L33-0098-05	Choke Coil
VRb1	R12-2008-05	PC Trimmer Potentiometer 5k Ω (B)
VRb2	R12-3016-05	PC Trimmer Potentiometer 20k Ω (B)
VRb3	R12-2008-05	PC Trimmer Potentiometer 5k Ω (B)
VRb4	R12-5016-05	PC Trimmer Potentiometer 100k Ω (B)
VRb5	R12-2008-05	PC Trimmer Potentiometer 5k Ω (B)

FILTER/PC BOARD

Fb1, 2	L71-0009-05	X'tal Filter
Fb3	L72-0005-15	Ceramic Filter
-	J25-0513-12	PC Board



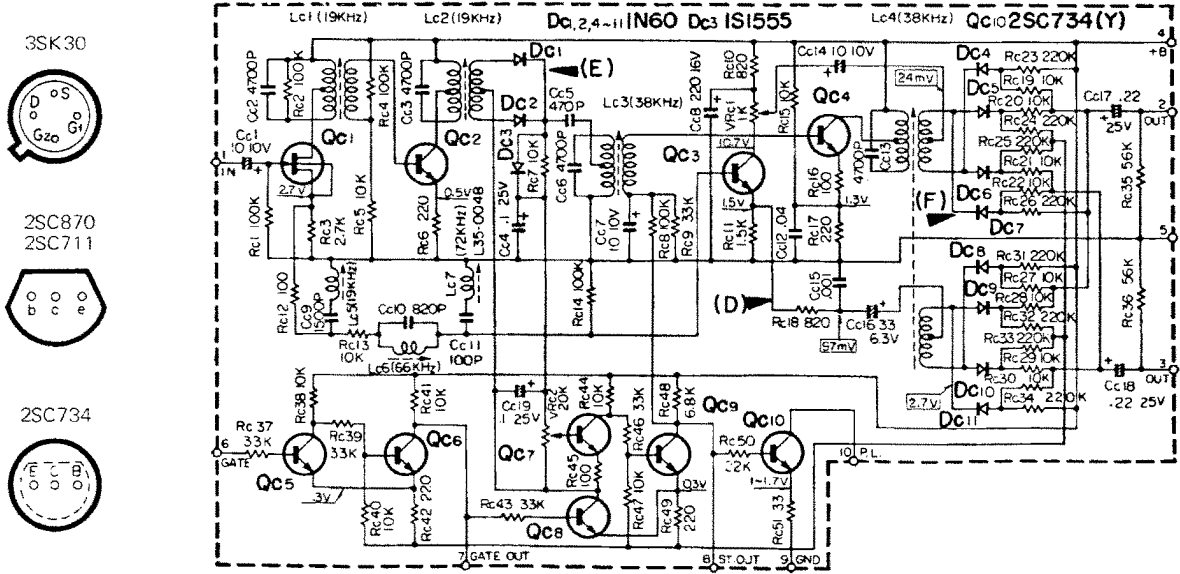
IF (X02-1000-10) SECTION

Circuit No.	Part No.	Description	Remarks
CAPACITOR			
Cb1 ~ 16	CK94YG1E103Z	Ceramic 0.01 μ F	+80% -20%
Cb17, 18	CC94SL1H221K	TC ceramic 220pF	\pm 10%
Cb19	CE04W1A100	PC Electrolytic 10 μ F	10WV
Cb20	CC94SL1H101K	TC ceramic 100pF	\pm 10%
Cb21, 22	CK94YG1E103Z	Ceramic 0.01 μ F	+80% -20%
Cb23	CC94SL1H220J	TC ceramic 22pF	\pm 5%
Cb24 ~ 27	CK94YG1E103Z	Ceramic 0.01 μ F	+80% -20%
Cb28	CC94SL1H221K	TC ceramic 220pF	\pm 10%
Cb29 ~ 31	CK94YG1E103Z	Ceramic 0.01 μ F	+80% -20%
Cb32	CC94SL1H100D	TC ceramic 10pF	\pm 0.5pF
Cb37, 38	CK94YG1E103Z	Ceramic 0.01 μ F	+80% -20%
Cb39	CC94SL1H220J	TC ceramic 22pF	\pm 5%
Cb40	CK94YG1E473Z	Ceramic 0.047 μ F	+80% -20%
Cb41	or CK94YG1E403Z	Ceramic 0.01 μ F	+80% -20%
Cb42	CC94SL1H100D	TC ceramic 10pF	\pm 0.5pF
Cb43, 44	CC94SL1H331K	TC ceramic 330pF	\pm 10%
Cb45	CC94SL1H101K	TC ceramic 100pF	\pm 10%
Cb46	CK94YG1E103Z	Ceramic 0.01 μ F	+80% -20%
Cb47	CA06E1ER68X	Solid Aluminum 0.68 μ F	25WV
Cb48	CC94SL1H100D	TC ceramic 10pF	\pm 0.5pF
Cb49	CK94YG1E473Z	Ceramic 0.047 μ F	+80% -20%
Cb50	or CK94YG1E403Z	Ceramic 0.04 μ F	+80% -20%
Cb51 ~ 53	CE04W1H010	PC Electrolytic 1 μ F	50WV
Cb54	CK94YG1E473Z	Ceramic 0.047 μ F	+80% -20%
Cb55	or CK94YG1E403Z	Ceramic 0.04 μ F	+80% -20%
Cb56	CO93M1H223K	Mylar 0.022 μ F	\pm 10%
Cb57	CK94YG1E103Z	Ceramic 0.01 μ F	+80% -20%
Cb58 ~ 60	CK94YG1E473Z	Ceramic 0.047 μ F	+80% -20%
Cb61	or CK94YG1E403Z	Ceramic 0.04 μ F	+80% -20%
Cb62	CC94SL1H101K	TC ceramic 100pF	\pm 10%
Cb63, 64	CK94YG1E473Z	Ceramic 0.047 μ F	+80% -20%
Cb65	CO93M1H223K	Mylar 0.022 μ F	\pm 10%
Cb66	or CK94YG1E403Z	Ceramic 0.047 μ F	+80% -20%
Cb67	CK94YY1H472M	Ceramic 0.0047 μ F	\pm 20%
Cb68	CE04W0F101	PC Electrolytic 100 μ F	3.15WV
	CK94YG1E473Z	Ceramic 0.047 μ F	+80% -20%
	or CK94YG1E403Z	Ceramic 0.04 μ F	+80% -20%

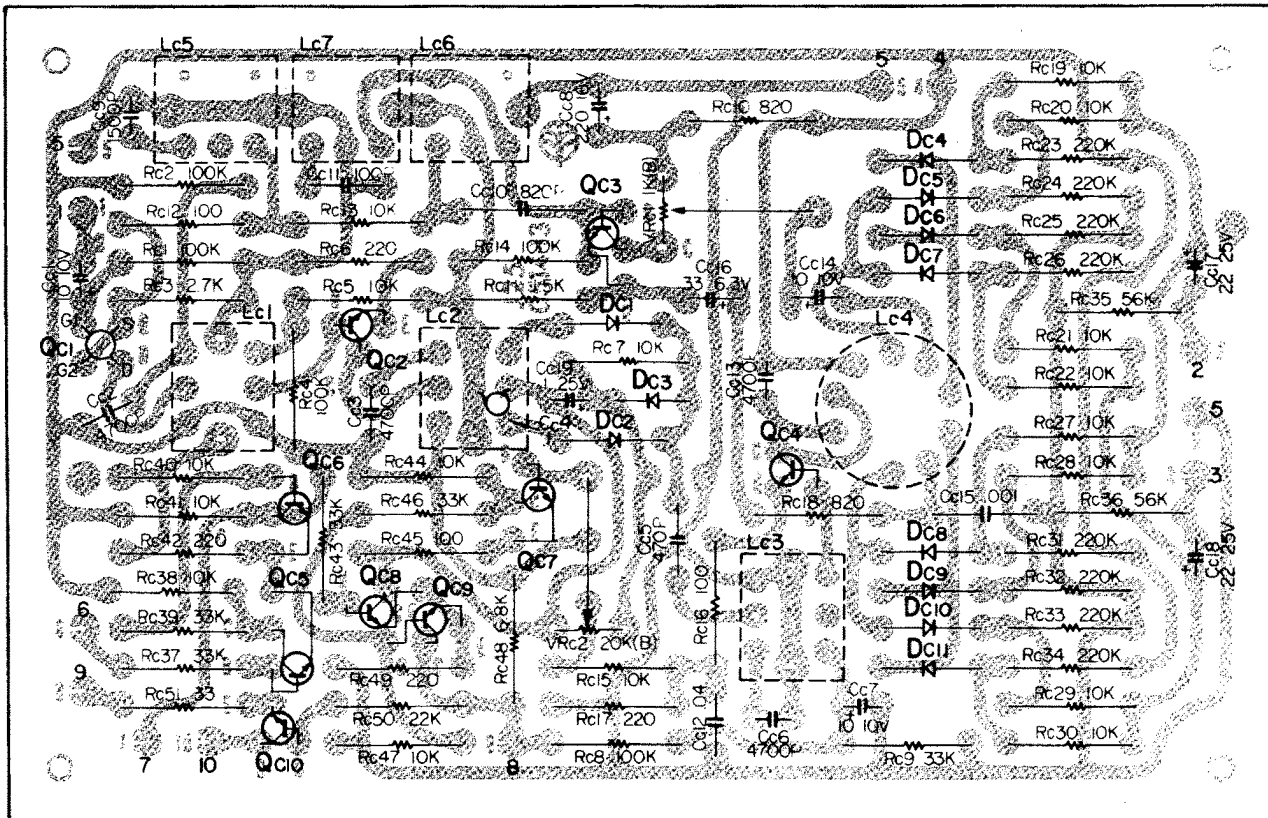
Circuit No.	Part No.	Description	Remarks
Rb36	PD14BY2B680J	Insulated Carbon Film 68 Ω	\pm 5% 1/8W
Rb37	PD14BY2B102J	Insulated Carbon Film 1k Ω	\pm 5% 1/8W
Rb38	PD14BY2B331J	Insulated Carbon Film 330 Ω	\pm 5% 1/8W
Rb39	PD14BY2B152J	Insulated Carbon Film 1.5k Ω	\pm 5% 1/8W
Rb40	PD14BY2B332J	Insulated Carbon Film 3.3k Ω	\pm 5% 1/8W
Rb41, 42	PD14BY2B103J	Insulated Carbon Film 10k Ω	\pm 5% 1/8W
Rb43	PD14BY2B563J	Insulated Carbon Film 56k Ω	\pm 5% 1/8W
Rb44	PD14BY2B473J	Insulated Carbon Film 47k Ω	\pm 5% 1/8W
Rb45	PD14BY2B333J	Insulated Carbon Film 33k Ω	\pm 5% 1/8W
Rb46	PD14BY2B221J	Insulated Carbon Film 220 Ω	\pm 5% 1/8W
Rb47	PD14BY2B224J	Insulated Carbon Film 220k Ω	\pm 5% 1/8W
Rb48	PD14BY2B562J	Insulated Carbon Film 56k Ω	\pm 5% 1/8W
Rb49	PD14BY2B563J	Insulated Carbon Film 56k Ω	\pm 5% 1/8W
Rb50	PD14BY2B102J	Insulated Carbon Film 1k Ω	\pm 5% 1/8W
Rb51	PD14BY2B220J	Insulated Carbon Film 22 Ω	\pm 5% 1/8W
Rb52	PD14BY2B393J	Insulated Carbon Film 39k Ω	\pm 5% 1/8W
Rb53	PD14BY2B224J	Insulated Carbon Film 220k Ω	\pm 5% 1/8W
Rb54	PD14BY2B473J	Insulated Carbon Film 47k Ω	\pm 5% 1/8W
Rb55	PD14BY2B102J	Insulated Carbon Film 1k Ω	\pm 5% 1/8W
Rb56	PD14BY2B152J	Insulated Carbon Film 1.5k Ω	\pm 5% 1/8W
Rb57	PD14BY2B822J	Insulated Carbon Film 8.2k Ω	\pm 5% 1/8W
Rb58	PD14BY2B333J	Insulated Carbon Film 33k Ω	\pm 5% 1/8W
Rb59	PD14BY2B331J	Insulated Carbon Film 330 Ω	\pm 5% 1/8W
Rb60	PD14BY2B220J	Insulated Carbon Film 22 Ω	\pm 5% 1/8W
Rb61	PD14BY2B224J	Insulated Carbon Film 220k Ω	\pm 5% 1/8W
Rb62	PD14BY2B222J	Insulated Carbon Film 2.2k Ω	\pm 5% 1/8W
Rb63	PD14BY2B470J	Insulated Carbon Film 47 Ω	\pm 5% 1/8W
Rb64	PD14BY2B102J	Insulated Carbon Film 1k Ω	\pm 5% 1/8W
Rb65	PD14BY2B333J	Insulated Carbon Film 33k Ω	\pm 5% 1/8W
Rb66	PD14BY2B332J	Insulated Carbon Film 3.9k Ω	\pm 5% 1/8W
Rb67	PD14BY2B472J	Insulated Carbon Film 4.7k Ω	\pm 5% 1/8W
Rb68	PD14BY2B682J	Insulated Carbon Film 6.8k Ω	\pm 5% 1/8W
Rb69	PD14BY2B273J	Insulated Carbon Film 27k Ω	\pm 5% 1/8W
Rb70	PD14BY2B101J	Insulated Carbon Film 100 Ω	\pm 5% 1/8W
Rb71	PD14BY2B102J	Insulated Carbon Film 1k Ω	\pm 5% 1/8W
Rb72	PD14BY2B821J	Insulated Carbon Film 820 Ω	\pm 5% 1/8W
Rb73	PD14BY2B223J	Insulated Carbon Film 22k Ω	\pm 5% 1/8W
Rb75	PD14BY2B472J	Insulated Carbon Film 4.7k Ω	\pm 5% 1/8W
TRANSISTOR/DIODE			
Cb1	2SC381 (O)		
Cb2	CS5895 (R)		
Cb3 ~ 5	CS5995 (B)		
Cb6, 7	2SC381 (R)		

SCHEMATIC DIAGRAM

BOTTOM VIEW OF TRANSISTOR



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Qc1: 3SK30(C), Qc2,4: 2SC870(F), Qc3: 2SC871(F), Qc5,6,7,8,9: 2SC711(F), Qc10: 2SC734(Y), Dc1,2,4-11: 1N60, Dc3: 1S1555

**KENWOOD****MPX (X04-1000-10) SECTION****PARTS DESCRIPTION LIST**

Circuit No.	Parts No.	Description	Remarks
CAPACITOR			
Cc1	CE04W1A100	PC Electrolytic 10 μ F 10WV	
Cc2, 3	CQ09S1H472J (X)	Polystyrene 0.0047 μ F \pm 5%	
Cc4	CA06E1ER10X	Solid Aluminum 0.1 μ F 25WV	
Cc5	CQ08S2B471J	Polystyrene 470pF \pm 5%	
Cc6	CQ09S1H472J (X)	Polystyrene 0.0047 μ F \pm 5%	
Cc7	CE04W1A100	PC Electrolytic 10 μ F 10WV	
Cc8	CE04W1C221	PC Electrolytic 220 μ F 16WV	
Cc9	CQ09S1H152J (X)	Polystyrene 0.0015 μ F \pm 5%	
Cc10	CQ08S2B821J	Polystyrene 820pF \pm 5%	
Cc11	CQ08S2B101J	Polystyrene 100pF \pm 5%	
Cc12	CK94YG1H403Z	Ceramic 0.04 μ F \pm 80%	-20%
Cc13	CQ09S1H472J (X)	Polystyrene 0.0047 μ F \pm 5%	
Cc14	CE04W1A100	PC Electrolytic 10 μ F 10WV	
Cc15	CQ93M1H102J	Mylar 0.001 μ F \pm 5%	
Cc16	CE04W0J330	PC Electrolytic 33 μ F 6.3WV	
Cc17, 18	CA06E1ER22X	Solid Aluminum 0.22 μ F 25WV	
Cc19	CA06E1ER10X	Solid Aluminum 0.1 μ F 25WV	
RESISTOR			
Rc1, 2	PD14BY2E104J	Insulated Carbon Film 100k Ω \pm 5% 1/4W	
Rc3	PD14BY2E272J	Insulated Carbon Film 2.7k Ω \pm 5% 1/4W	
Rc4	PD14BY2E104J	Insulated Carbon Film 100k Ω \pm 5% 1/4W	
Rc5	PD14BY2E103J	Insulated Carbon Film 10k Ω \pm 5% 1/4W	
Rc6	PD14BY2E221J	Insulated Carbon Film 220 Ω \pm 5% 1/4W	
Rc7	PD14BY2E103J	Insulated Carbon Film 10k Ω \pm 5% 1/4W	
Rc8	PD14BY2E104J	Insulated Carbon Film 100k Ω \pm 5% 1/4W	
Rc9	PD14BY2E333J	Insulated Carbon Film 33k Ω \pm 5% 1/4W	
Rc10	PD14BY2E821J	Insulated Carbon Film 820 Ω \pm 5% 1/4W	
Rc11	PD14BY2E152J	Insulated Carbon Film 1.5k Ω \pm 5% 1/4W	
Rc12	PD14BY2E101J	Insulated Carbon Film 100 Ω \pm 5% 1/4W	
Rc13	PD14BY2E103J	Insulated Carbon Film 10k Ω \pm 5% 1/4W	
Rc14	PD14BY2E104J	Insulated Carbon Film 100k Ω \pm 5% 1/4W	
Rc15	PD14BY2E103J	Insulated Carbon Film 10k Ω \pm 5% 1/4W	
Rc16	PD14BY2E101J	Insulated Carbon Film 100 Ω \pm 5% 1/4W	
Rc17	PD14BY2E221J	Insulated Carbon Film 220 Ω \pm 5% 1/4W	
Rc18	PD14BY2E821J	Insulated Carbon Film 820 Ω \pm 5% 1/4W	
Rc19 ~ 22	PD14BY2E103J	Insulated Carbon Film 10k Ω \pm 5% 1/4W	
Rc23 ~ 26	PD14BY2E224J	Insulated Carbon Film 220k Ω \pm 5% 1/4W	
Rc27 ~ 30	PD14BY2E103J	Insulated Carbon Film 10k Ω \pm 5% 1/4W	
Rc31 ~ 34	PD14BY2E224J	Insulated Carbon Film 220k Ω \pm 5% 1/4W	
Rc35, 36	PD14BY2E563J	Insulated Carbon Film 56k Ω \pm 5% 1/4W	
Rc37	PD14BY2E333J	Insulated Carbon Film 33k Ω \pm 5% 1/4W	
Rc38	PD14BY2E103J	Insulated Carbon Film 10k Ω \pm 5% 1/4W	
Rc39	PD14BY2E333J	Insulated Carbon Film 33k Ω \pm 5% 1/4W	
Rc40, 41	PD14BY2E103J	Insulated Carbon Film 10k Ω \pm 5% 1/4W	
Rc42	PD14BY2E221J	Insulated Carbon Film 220 Ω \pm 5% 1/4W	
Rc43	PD14BY2E333J	Insulated Carbon Film 33k Ω \pm 5% 1/4W	
Rc44	PD14BY2E103J	Insulated Carbon Film 10k Ω \pm 5% 1/4W	
Rc45	PD14BY2E101J	Insulated Carbon Film 100 Ω \pm 5% 1/4W	
Rc46	PD14BY2E333J	Insulated Carbon Film 33k Ω \pm 5% 1/4W	
Rc47	PD14BY2E103J	Insulated Carbon Film 10k Ω \pm 5% 1/4W	
Rc48	PD14BY2E682J	Insulated Carbon Film 6.8k Ω \pm 5% 1/4W	
Rc49	PD14BY2E221J	Insulated Carbon Film 220 Ω \pm 5% 1/4W	
Re50	PD14BY2E223J	Insulated Carbon Film 22k Ω \pm 5% 1/4W	
Rc51	PD14BY2E330J	Insulated Carbon Film 33 Ω \pm 5% 1/4W	
TRANSISTOR/DIODE			
Qc1		3SK30 (C)	
Qc2		2SC870 (F)	
Qc3		2SC871 (F)	
Qc4		2SC870 (F)	
Qc5 ~ 9		2SC711 (F)	
Qc10		2SC734 (Y)	
Dc1, 2		1N60	
Dc3		1S1555	
Dc4 ~ 11		1N60	
POTENTIOMETER/COIL			
VRc1	R12-1021-05	PC Trimmer Potentiometer 1k Ω (B)	
VRc2	R12-3028-05	PC Trimmer Potentiometer 20k Ω (B)	
Lc1	L35-0043-05	MPX Coil	
Lc2	L35-0044-05	MPX Coil	
Lc3	L35-0045-05	MPX Coil	
Lc4	L35-0046-05	MPX Coil	
Lc5	L35-0048-05	MPX Coil	
Lc6	L35-0047-05	MPX Coil	
Lc7	L35-0048-05	MPX Coil	
PC BOARD			
-	J25-0514-13	PC Board	



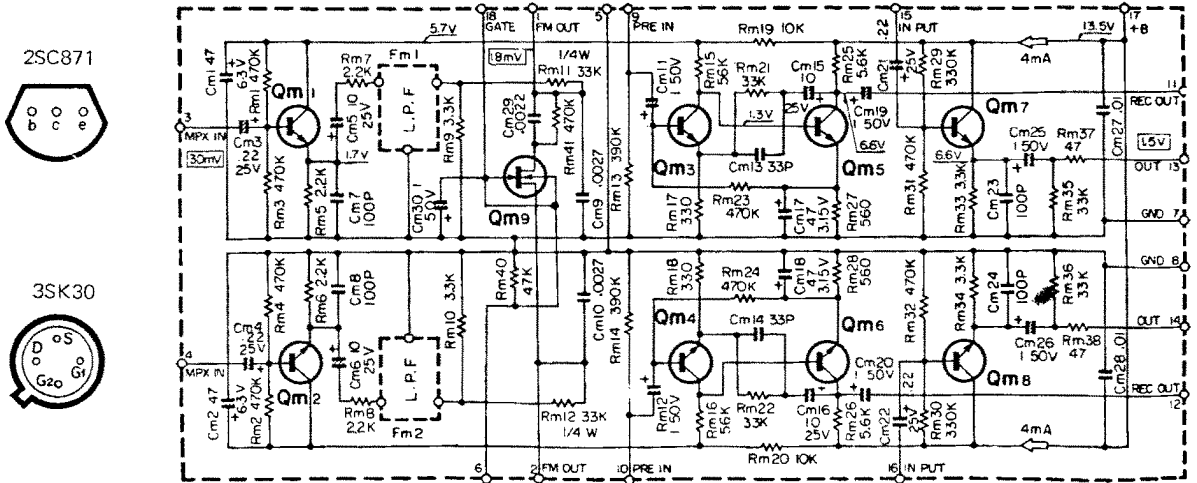
KENWOOD

AUDIO(X08-1000-10) SECTION

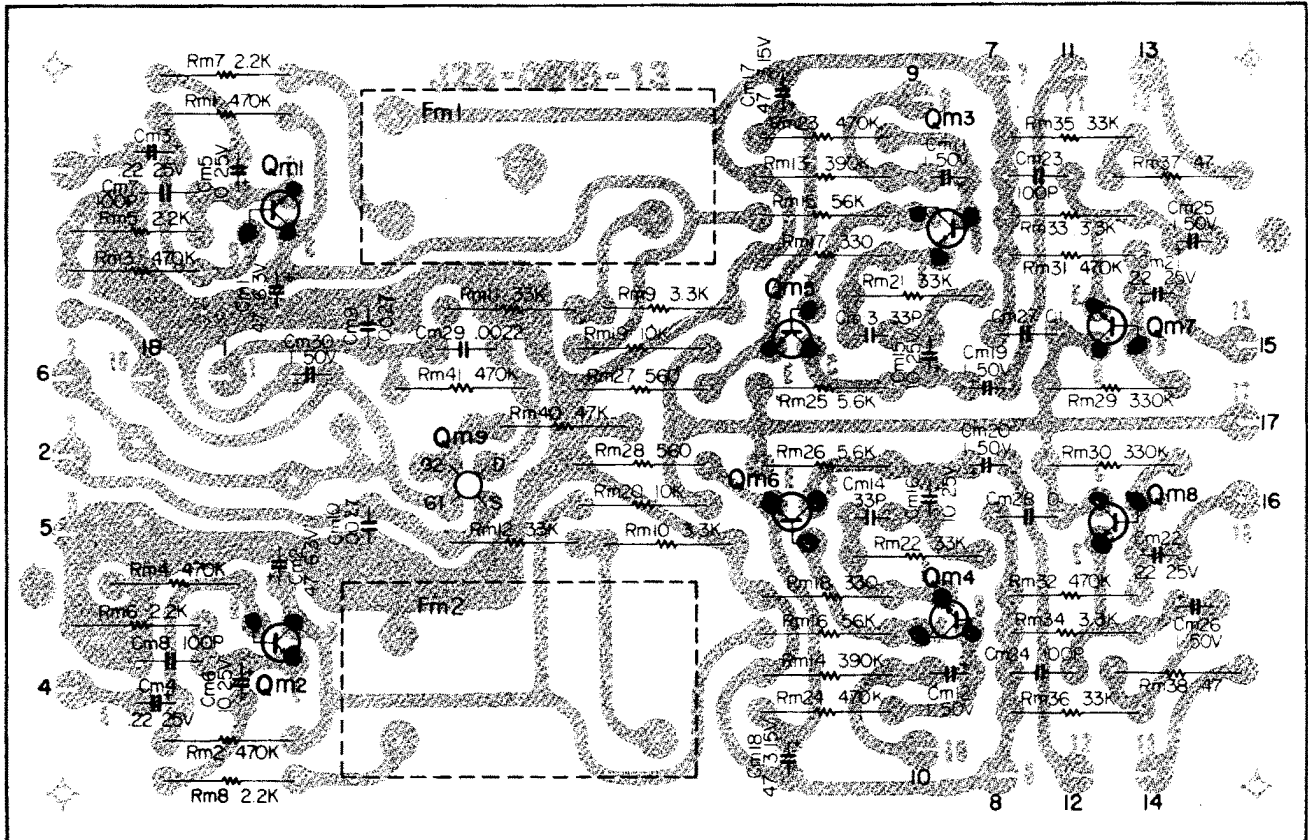
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SCHEMATIC DIAGRAM

BOTTOM VIEW OF TRANSISTOR



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Qm1,2,3,4: 2SC871 E , Qm5,6,7,8: 2SC871 E or F, Qm9: 3SK30(A)

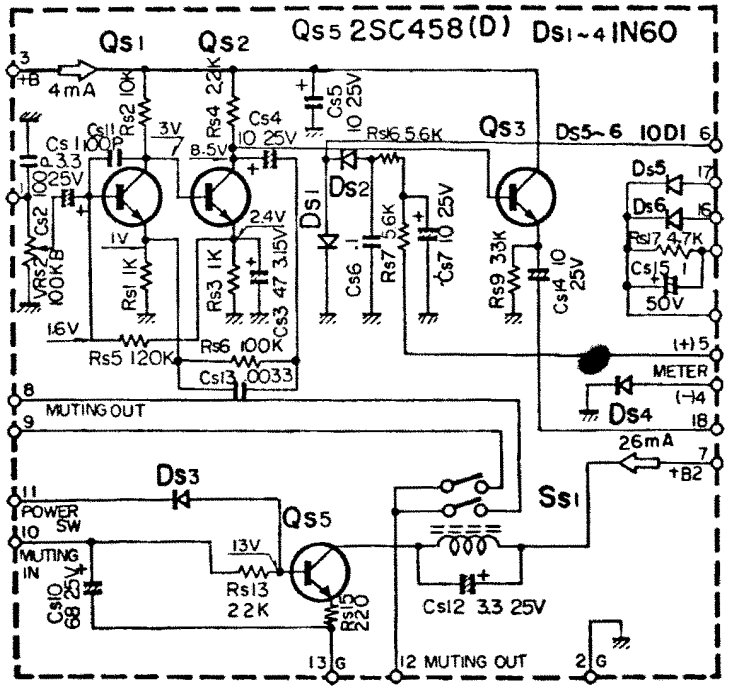
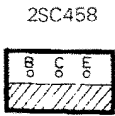
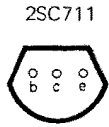


PARTS DESCRIPTION LIST

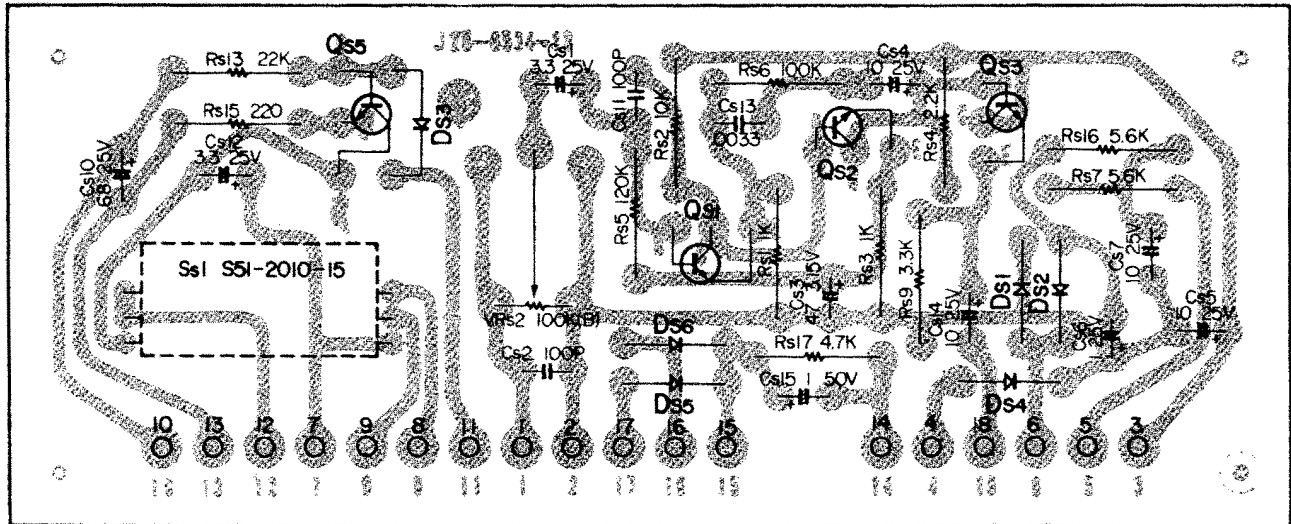
Circuit No.	Parts No.	Description	Remarks
CAPACITOR			
Cm1, 2	CE04W0J470	PC Electrolytic	47 μ F 6.3WV
Cm3, 4	CA06E1ER22M (X)	Solid Aluminum	0.22 μ F 25WV
Cm5, 6	CE04W1E100	PC Electrolytic	10 μ F 25WV
Cm7, 8	CC94SL1H101K	TC Ceramic	100pF \pm 10%
Cm9, 10	C90-0087-05	Polystyrene	0.0027 μ F \pm 3%
Cm11, 12	CE04W1H010	PC Electrolytic	1 μ F 50WV
Cm13, 14	CC94SL1H330K	TC Ceramic	33pF \pm 10%
Cm15, 16	CE04W1E100	PC Electrolytic	10 μ F 25WV
Cm17, 18	CE04W0F470	PC Electrolytic	47 μ F 3.15WV
Cm19, 20	CE04W1H010	PC Electrolytic	1 μ F 50WV
Cm21, 22	CA06E1ER22M (X)	Solid Aluminum	0.22 μ F 25WV
Cm23, 24	CC94SL1H101K	TC Ceramic	100pF \pm 10%
Cm25, 26	CE04W1H010	PC Electrolytic	1 μ F 50WV
Cm27, 28	CK94YG1H103Z	Ceramic	0.01 μ F +80% -20%
Cm29	CQ93M1H222K	Mylar	0.0022 μ F \pm 10%
Cm30	CE04W1H010	PC Electrolytic	1 μ F 50WV
RESISTOR			
Rm1 ~ 4	PD14BY2E474J	Insulated Carbon Film	470k Ω \pm 5% 1/4W
Rm5 ~ 8	PD14BY2E222J	Insulated Carbon Film	2.2k Ω \pm 5% 1/4W
Rm9, 10	PD14BY2E332J	Insulated Carbon Film	3.3k Ω \pm 5% 1/4W
Rm11, 12	PD14BY2E333F	Insulated Carbon Film	3.3k Ω \pm 1% 1/4W
Rm13, 14	PD14BY2E394J	Insulated Carbon Film	390k Ω \pm 5% 1/4W
Rm15, 16	PD14BY2E563J	Insulated Carbon Film	56k Ω \pm 5% 1/4W
Rm17, 18	PD14BY2E331J	Insulated Carbon Film	330 Ω \pm 5% 1/4W
Rm19, 20	PD14BY2E103J	Insulated Carbon Film	10k Ω \pm 5% 1/4W
Rm21, 22	PD14BY2E333J	Insulated Carbon Film	33k Ω \pm 5% 1/4W
Rm23, 24	PD14BY2E474J	Insulated Carbon Film	470k Ω \pm 5% 1/4W
Rm25, 26	PD14BY2E562J	Insulated Carbon Film	5.6k Ω \pm 5% 1/4W
Rm27, 28	PD14BY2E561J	Insulated Carbon Film	560 Ω \pm 5% 1/4W
Rm29, 30	PD14BY2E334J	Insulated Carbon Film	330k Ω \pm 5% 1/4W
Rm31, 32	PD14BY2E474J	Insulated Carbon Film	470k Ω \pm 5% 1/4W
Rm33, 34	PD14BY2E332J	Insulated Carbon Film	3.3k Ω \pm 5% 1/4W
Rm35, 36	PD14BY2E333J	Insulated Carbon Film	33k Ω \pm 5% 1/4W
Rm37, 38	PD14BY2E470J	Insulated Carbon Film	47 Ω \pm 5% 1/4W
Rm40	PD14BY2E473J	Insulated Carbon Film	47k Ω \pm 5% 1/4W
Rm41	PD14BY2E474J	Insulated Carbon Film	470k Ω \pm 5% 1/4W
TRANSISTOR/FILTER			
Qm1 ~ 4		2SC871 (E)	
Qm5 ~ 8		2SC871 (E) or (F)	
Qm9		3SK30 (A)	
Fm1, 2	L79-0011-05	Low-Pass Filter	
PC BOARD			
-	J25-0515-13	PC Board	

SCHEMATIC DIAGRAM

BOTTOM VIEW OF TRANSISTOR



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



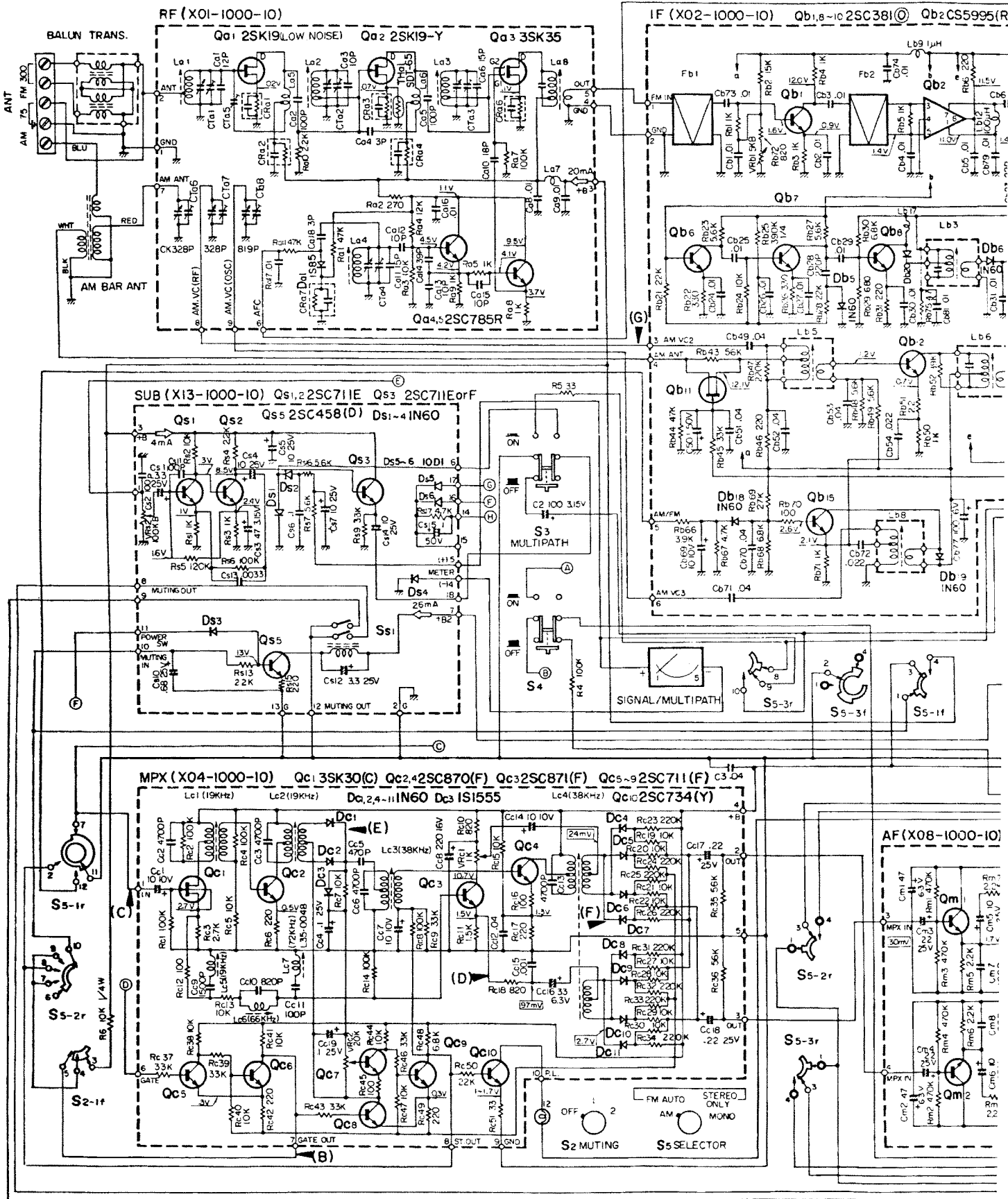
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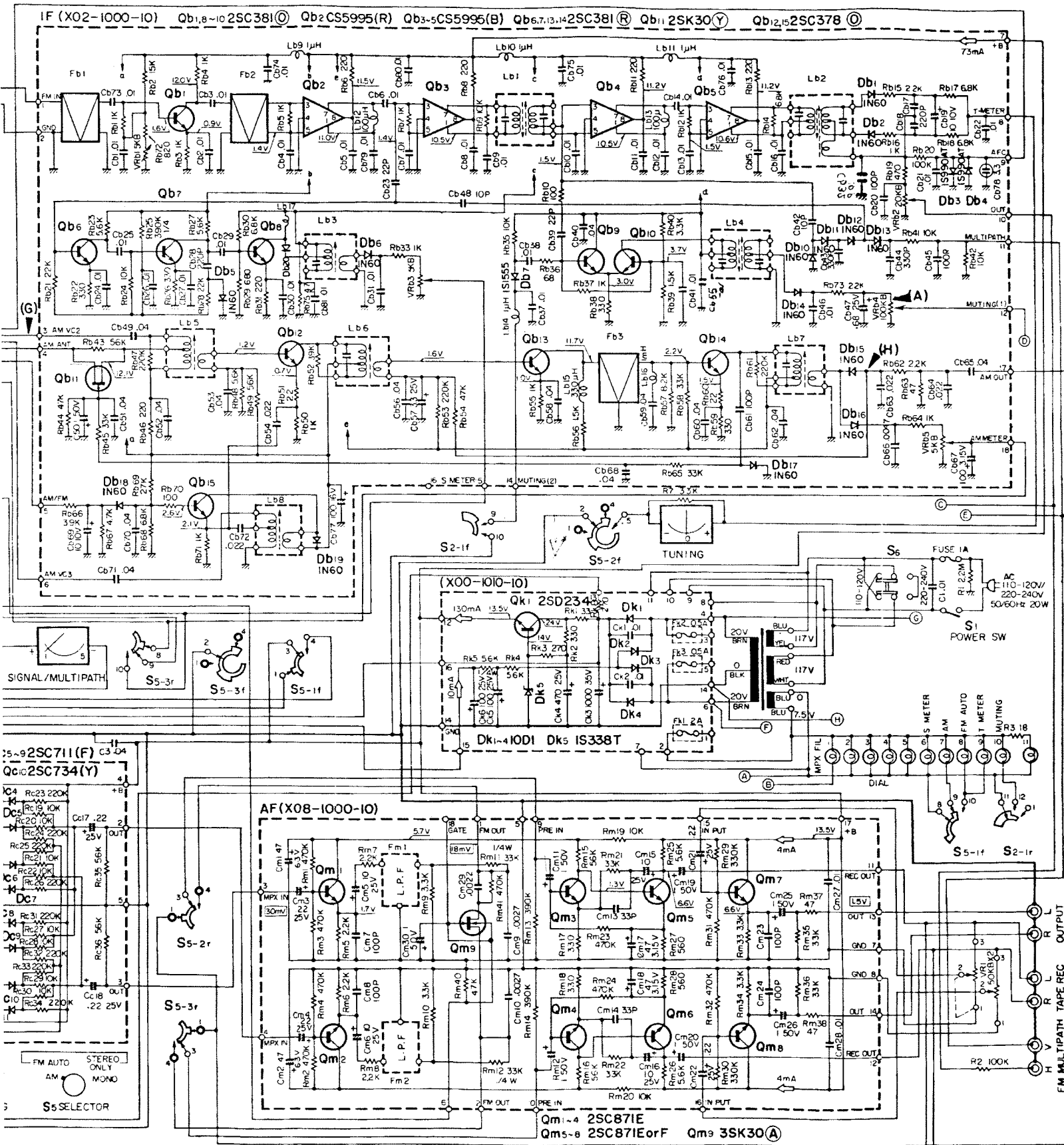


PARTS DESCRIPTION LIST

Circuit No.	Parts No.	Description			Remarks
CAPACITOR					
Cs1	CE04W1E3R3	PC electrolytic	3.3 μ F	25WV	
Cs2	CC94SL1H101K	TC ceramic	100pF	\pm 10%	
Cs3	CE04W0F470	PC electrolytic	47 μ F	3.15WV	
Cs4, 5	CE04W1E100	PC electrolytic	10 μ F	25WV	
Cs6	CA06E1ER10X	Solid aluminum	0.1 μ F	25WV	
Cs7	CE04W1E100	PC electrolytic	10 μ F	25WV	
Cs10	CA06E1ER68X	Solid aluminum	0.68 μ F	25WV	
Cs11	CC94SL1H101K	TC ceramic	100pF	\pm 10%	
Cs12	CE04W1E3R3	PC electrolytic	3.3 μ F	25WV	
Cs13	CK94YY1H332M	Ceramic	0.0033 μ F	\pm 20%	
Cs14	CE04W1E100	PC electrolytic	10 μ F	25WV	
Cs15	CE04W1H010	PC electrolytic	1 μ F	50WV	
RESISTOR					
Rs1	PD14BY2E102J	Insulated carbon film	1k Ω	\pm 5%	1/4W
Rs2	PD14BY2E103J	Insulated carbon film	10k Ω	\pm 5%	1/4W
Rs3	PD14BY2E102J	Insulated carbon film	1k Ω	\pm 5%	1/4W
Rs4	PD14BY2E222J	Insulated carbon film	2.2k Ω	\pm 5%	1/4W
Rs5	PD14BY2E124J	Insulated carbon film	120k Ω	\pm 5%	1/4W
Rs6	PD14BY2E104J	Insulated carbon film	100k Ω	\pm 5%	1/4W
Rs7	PD14BY2E562J	Insulated carbon film	5.6k Ω	\pm 5%	1/4W
Rs9	PD14BY2E332J	Insulated carbon film	3.3k Ω	\pm 5%	1/4W
Rs13	PD14BY2E223J	Insulated carbon film	22k Ω	\pm 5%	1/4W
Rs15	PD14BY2E221J	Insulated carbon film	220 Ω	\pm 5%	1/4W
Rs16	PD14BY2E562J	Insulated carbon film	5.6k Ω	\pm 5%	1/4W
Rs17	PD14BY2E472J	Insulated carbon film	4.7k Ω	\pm 5%	1/4W
POTENTIOMETER/RELAY					
Rs2	R12-5019-05	PC trimmer potentiometer	100k Ω (B)		
Ss1	S51-2010-15	Relay			
TRANSISTOR/DIODE/PC BOARD					
Qs1, 2	J25-0534-13	2SC711 (E)			
Qs3		2SC711 (E) or (F)			
Qs5		2SC458 (D)			
Ds1 ~ 4		1N60			
Ds5, 6		10D1			
—		PC board			

SCHEMATIC DIAGRAM





KT-700(K)