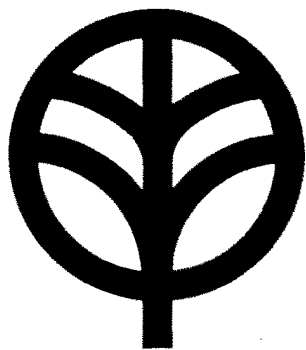


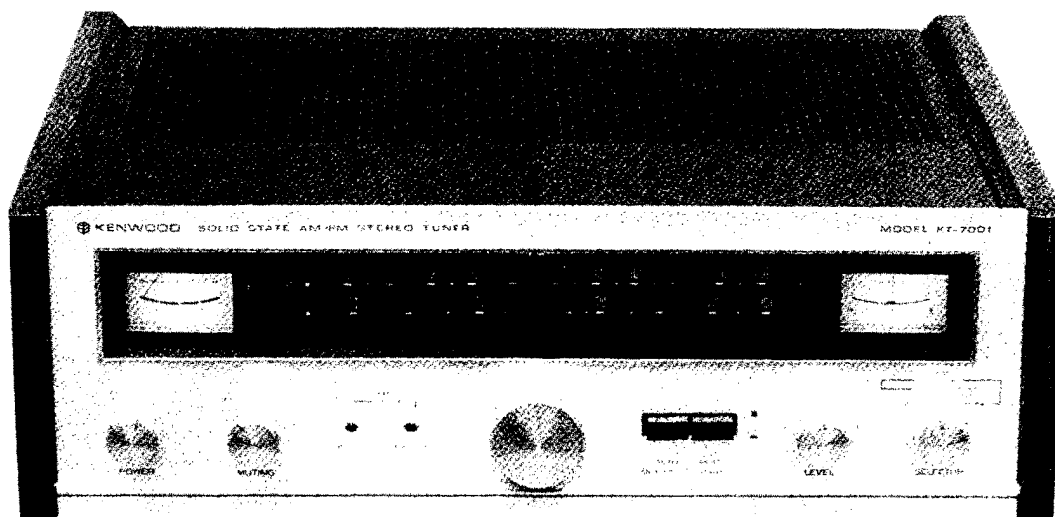


KENWOOD

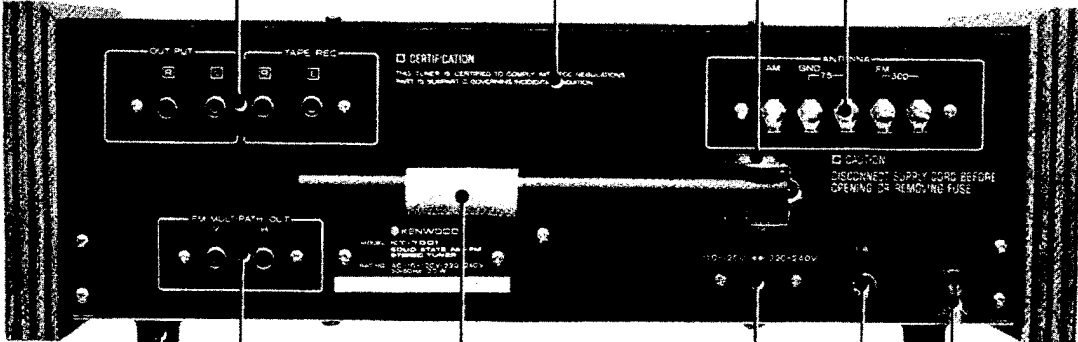
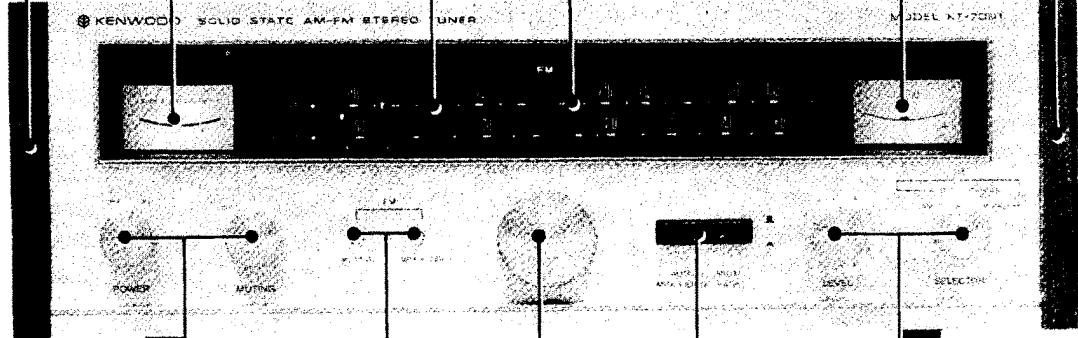
HI/FI STEREO COMPONENTS

SERVICE MANUAL

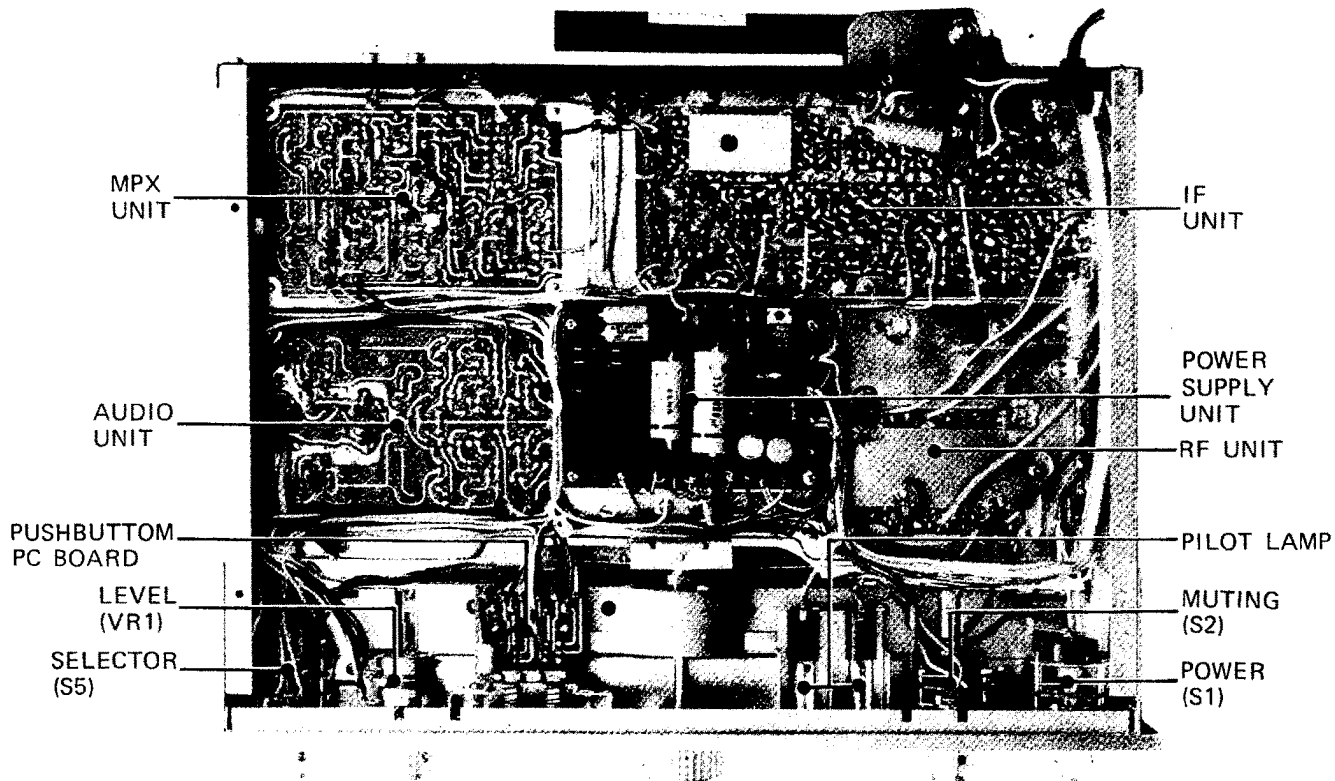
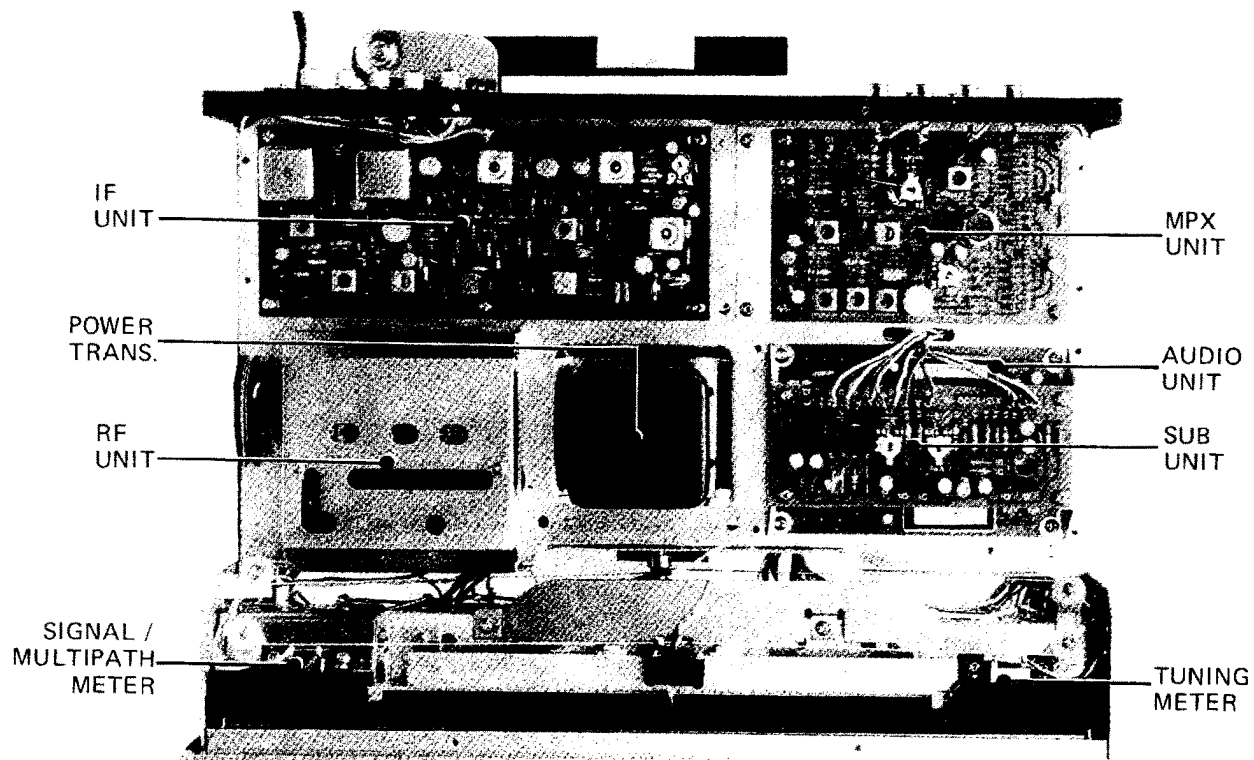
KT-7001



SOLID STATE AM-FM STEREO TUNER



● 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	

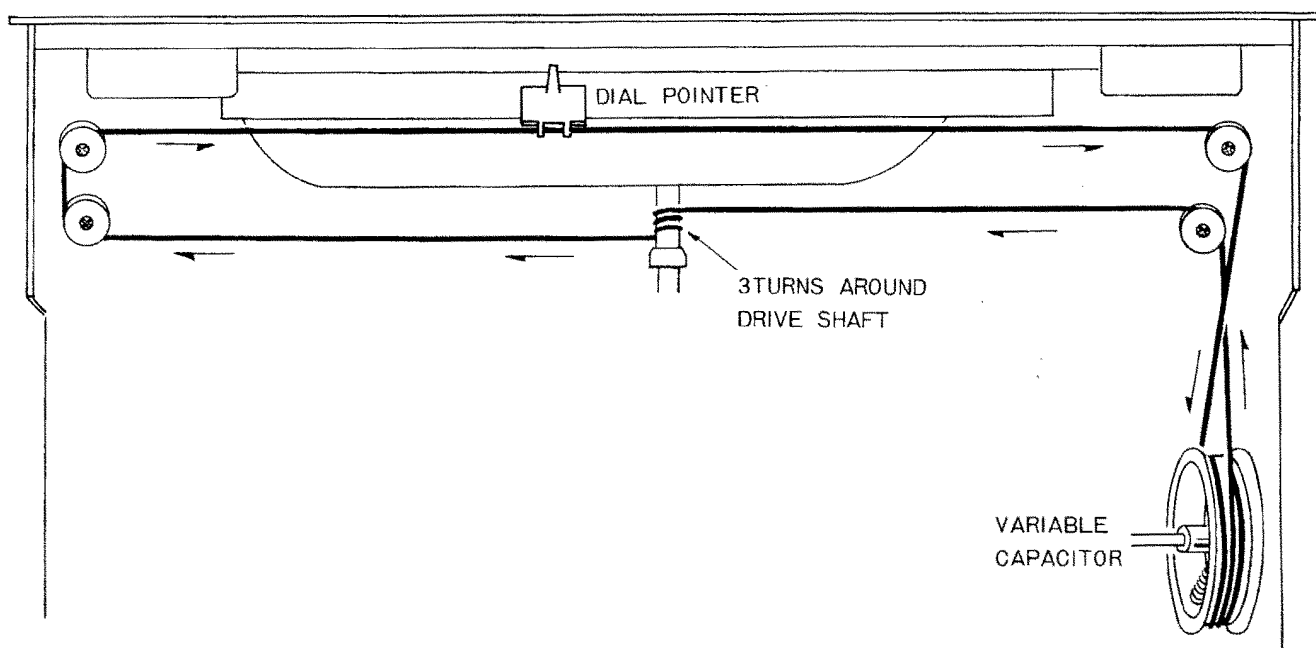
● PARTS LIST

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

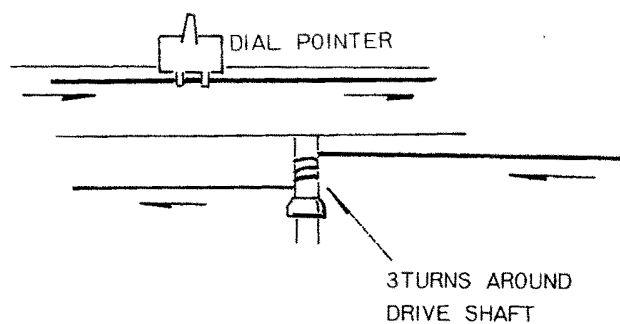
Circuit No.	Parts No.	Description	Remarks
—	L19-0009-05	Balun transformer	
L1	L33-0025-05	Choke coil	
—	T90-0002-05	FM indoor antenna	
—	T-90-0031-05	Loopstick antenna	
* In North America leave out the parts of (U). In other do out the parts of (K).			

● 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 ~ 2μV	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 ~ 2μV	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 ~ 2μV	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 ~ 2μV	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.) 100μV	98MHz	VTVM to the output jack	(X02-1000-10) Lb3	Maximum deflection
14	SIGNAL METER	FM antenna terminal	98MHz (unmod.) 100μV	98MHz	—	(X02-1000-10) VRb3	"4.5" S-meter indicates
15	Set the MUTING to 1.						
16	MUTING	FM antenna terminal	98MHz (unmod.) 100μV	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.) 6.3μV	98MHz	VTVM to the TEST POINT (A)	(X02-1000-10) VRb1	The value of 70% standard level
19	MUTING	FM antenna terminal	98MHz (unmod.) 6.3μV	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

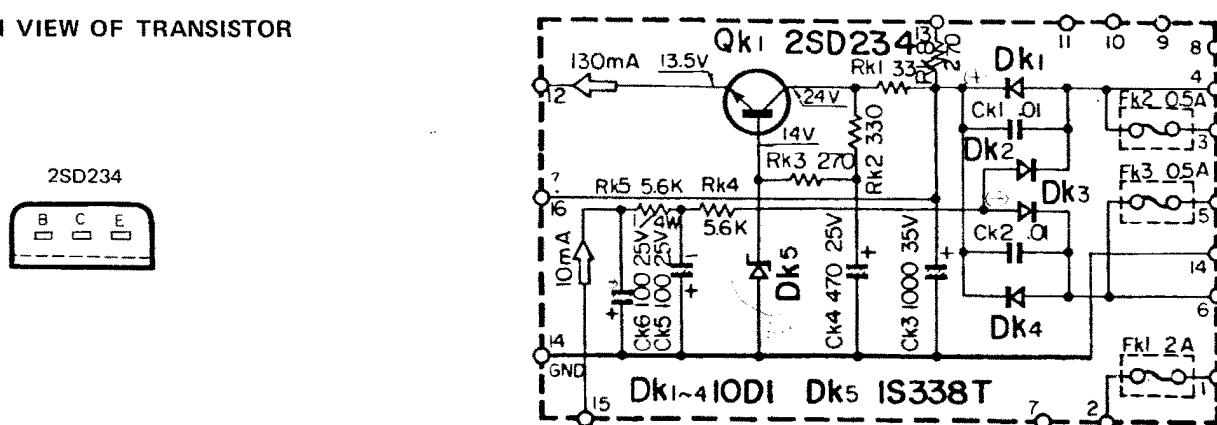
● ALIGNMENT PROCEDURE

■ AM SECTION

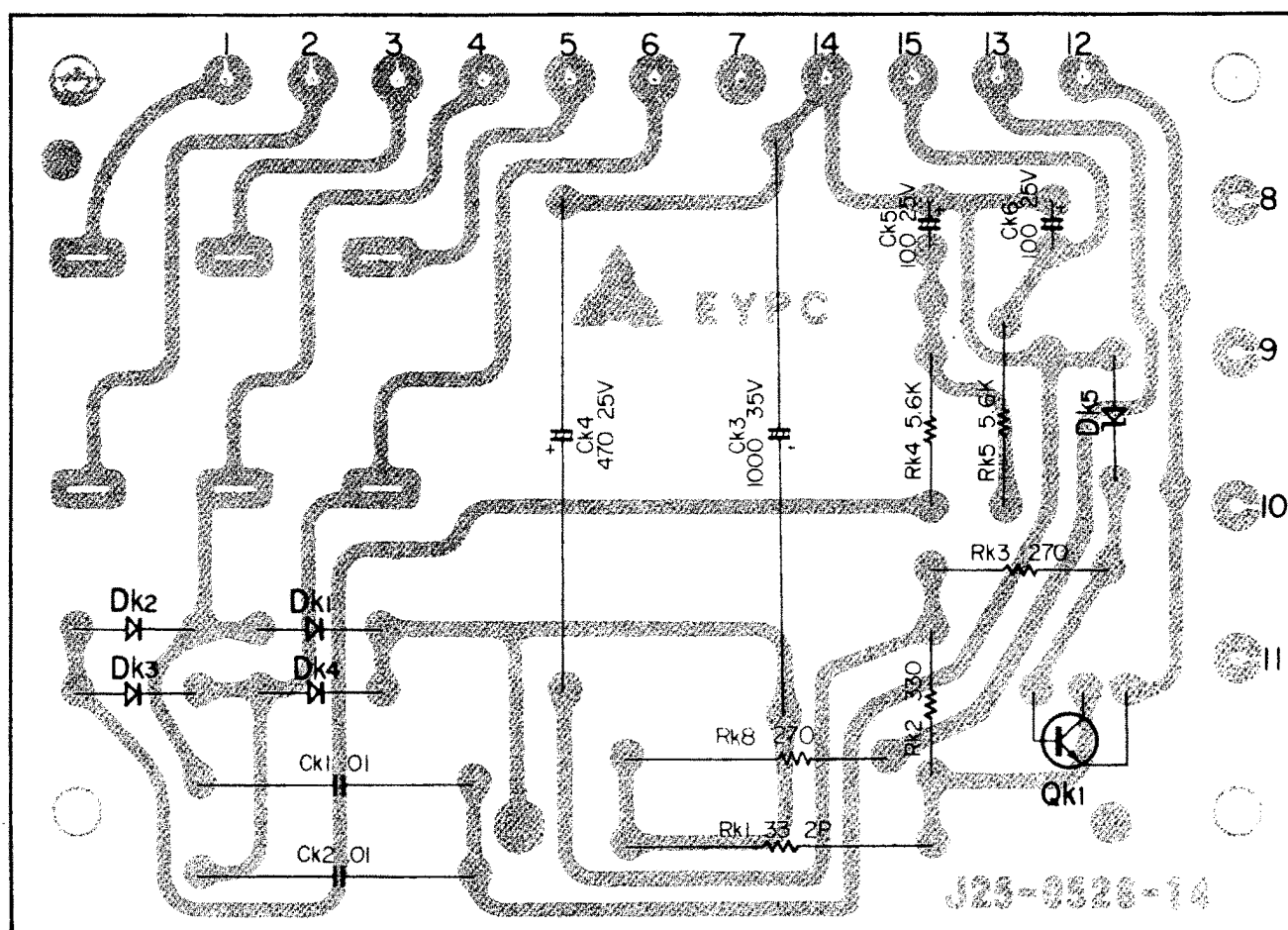
STEP	ALIG	SG/SWEEP G.		TUNING DIAL SETTING	VTVM & OSC COUPLING	ADJUST	CHECK
		COUPLING	SIGNAL				
1	IF Trans.	SWEEP to TEST POINT (G)	455kHz	Any non- interfering	TEST POINT (H)	(X02-1000-10) Lb6	Maximum amplitude and symmetry with 455kHz marker centered on response
2	RF	SG to AM antenna terminal	600kHz 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: 1S338T

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

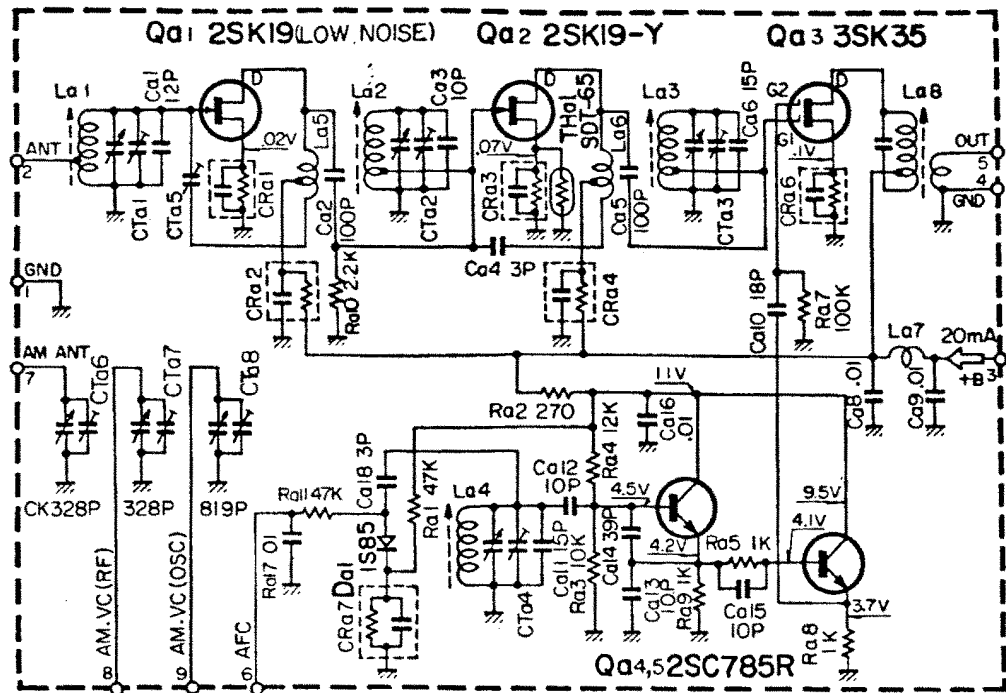
2SK19



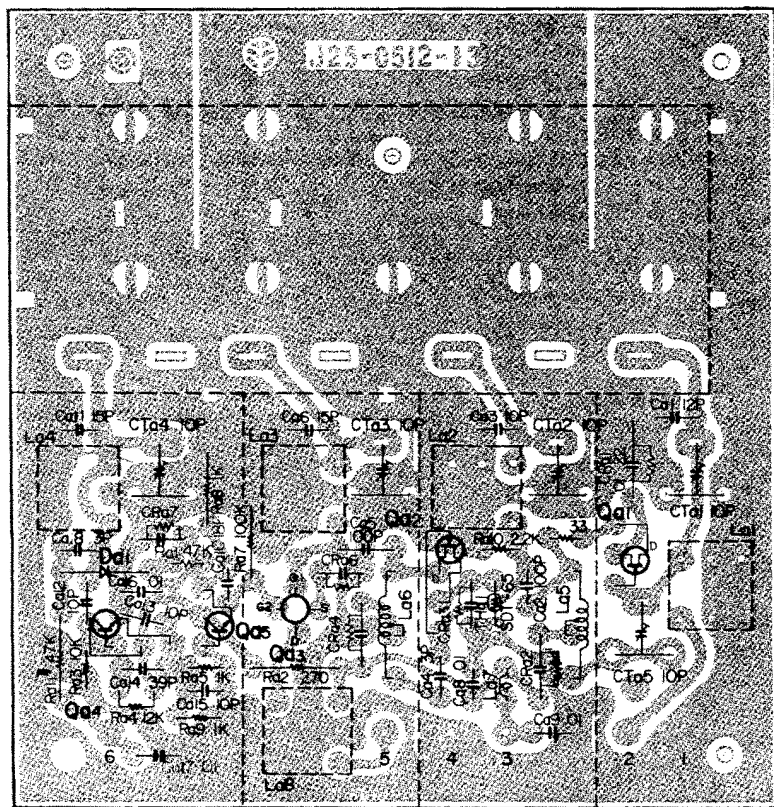
3SK35



2SC758R



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

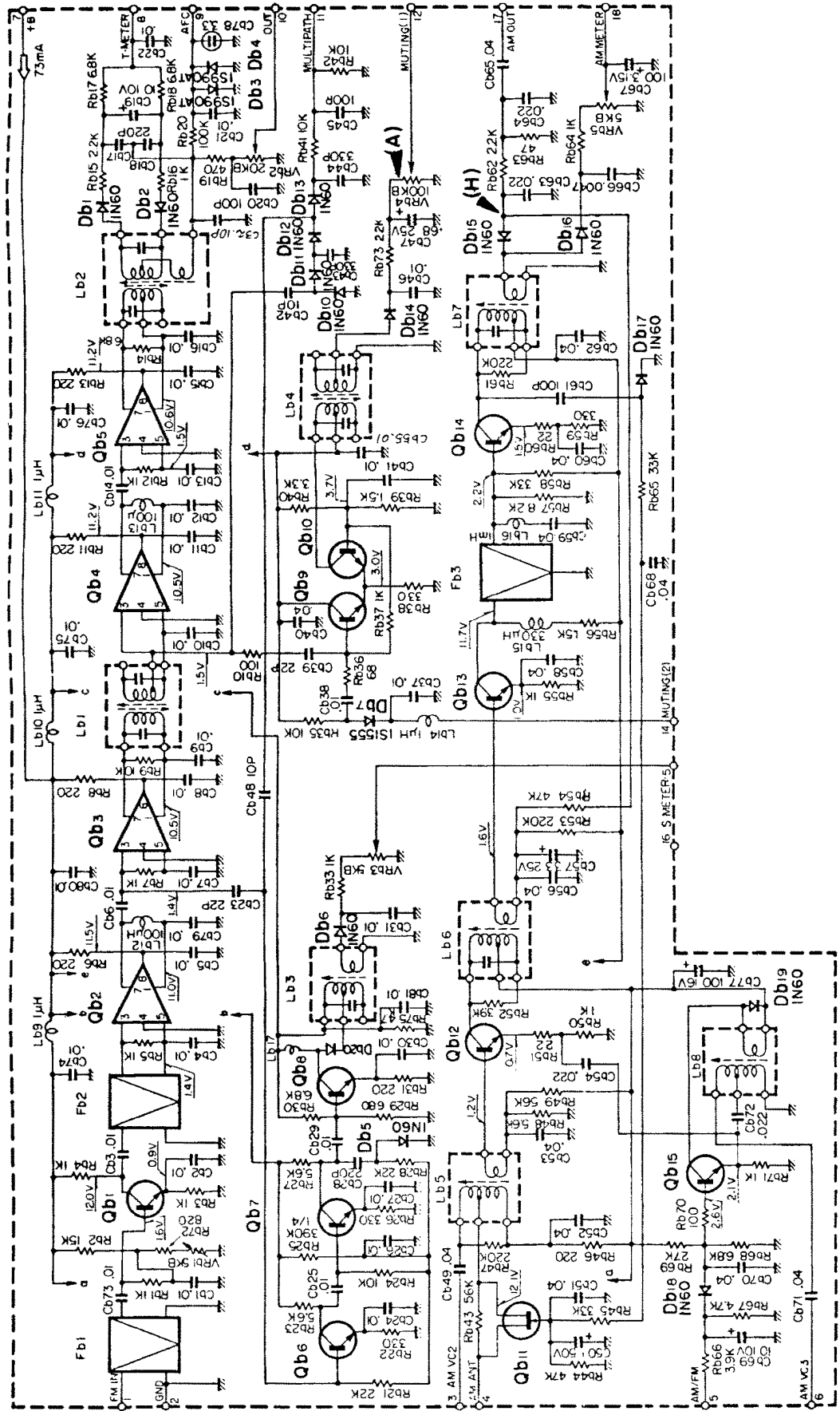
Circuit No.	Parts No.	Description	Remarks
CAPACITOR			
Ca1	CC94SH1H120K	TC Ceramic 12pF ±10%	
Ca2	CC94SL1H101K	TC Ceramic 100pF ±10%	
Ca3	CC94SH1H100K	TC Ceramic 10pF ±10%	
Ca4	CC94SL1H030C	TC Ceramic 3pF ±0.25pF	
Ca5	CC94SL1H101K	TC Ceramic 100pF ±10%	
Ca6	CC94SH1H150K	TC Ceramic 15pF ±10%	
Ca8, 9	CK94YG1H103Z	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	

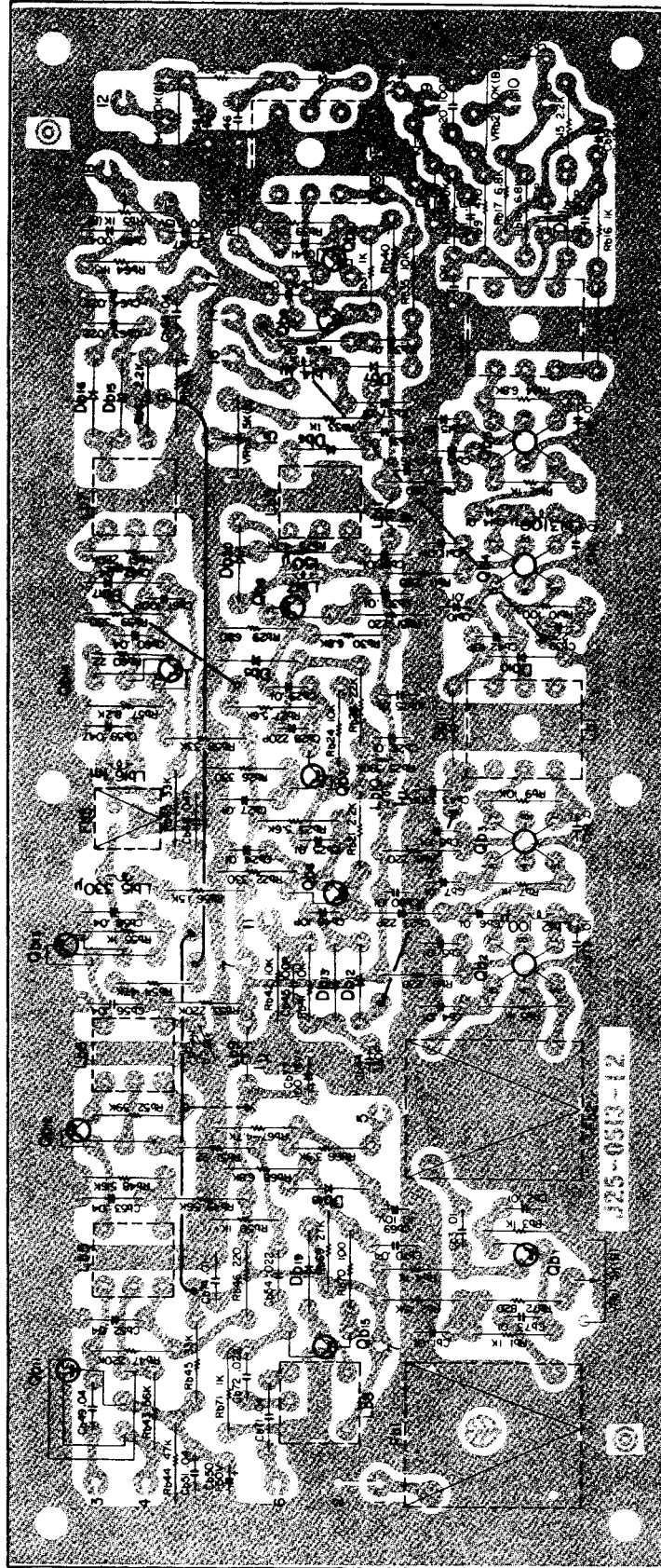


KENWOOD

IF (X02-1000-10) SECTION

(KT-7001)





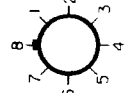
Qb1,8~o 2SC381(O), Qb2 CS5995(R), Qb3~5 CS5995(B), Qb6,7,13,14 2SC378(R), Qb11 3SK30(Y), Qb12,16 2SC378(O), Qb13,15,16~20 IN60, Dbs,4: IS990AT, Dbr: IS1555

BOTTOM VIEW OF TRANSISTOR

2SC 378
2SC 381



CS 5995



3SK30



Cb55	CK94YG1E473Z	Ceramic	0.01 μ F	+80%	-20%
Cb56	CK94YG1E473Z or CK94YG1E403Z	Ceramic	0.04 μ F or 0.04 μ F	+80%	-20%
Cb57	CE04W1E3R3	PC Electrolytic	3.3 μ F	±25WV	-20%
Cb58 ~ 60	CK94YG1E473Z	Ceramic	0.04 μ F	+80%	-20%
Cb61	CK94YG1E403Z	TC ceramic	100PF	±10%	-20%
Cb62	CK94YG1E473Z	Ceramic	0.04 μ F	+80%	-20%
Cb63, 64	CK94YG1E473Z or CK94YG1E403Z	Mylar	0.022 μ F	±10%	-20%
Cb65	CK94YG1E473Z or CK94YG1E403Z	Ceramic	0.047 μ F or 0.04 μ F	+80%	-20%
Cb66	CK94YG1E472M	Ceramic	0.0047 μ F	±20%	-20%
Cb67	CE04W0F101	PC Electrolytic	100 μ F	3.15WV	-20%
Cb68	CK94YG1E473Z	Ceramic	0.047 μ F	+80%	-20%
Cb69	CE04W1A100	PC Electrolytic	10 μ F	10WV	-20%
Cb70, 71	CK94YG1E473Z or CK94YG1E403Z	Ceramic	0.047 μ F or 0.04 μ F	+80%	-20%
Cb72	CM93M1H223K	Mylar	0.022 μ F	±10%	-20%
Cb73 ~ 76	CK94YG1E103Z	Ceramic	0.01 μ F	+80%	-20%
Cb77	CE04W1C101	PC Electrolytic	100 μ F	16WV	-20%
Cb78	CE04W1C3R3NP	Non-Pole Electrolytic	3.3 μ F	16WV	-20%
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

TRANSISTOR/DIODE

Rb75	PD14BY2B472J	Insulated Carbon Film	4.7k Ω	±5%	1/8W
Rb55	PD14BY2B392J	Insulated Carbon Film	3.9k Ω	±5%	1/8W
Rb66	PD14BY2B472J	Insulated Carbon Film	4.7k Ω	±5%	1/8W
Rb67	PD14BY2B682J	Insulated Carbon Film	6.8k Ω	±5%	1/8W
Rb68	PD14BY2B273J	Insulated Carbon Film	27k Ω	±5%	1/8W
Rb69	PD14BY2B101J	Insulated Carbon Film	100 Ω	±5%	1/8W
Rb70	PD14BY2B102J	Insulated Carbon Film	1k Ω	±5%	1/8W
Rb71	PD14BY2B821J	Insulated Carbon Film	820 Ω	±5%	1/8W
Rb72	PD14BY2B223J	Insulated Carbon Film	22k Ω	±5%	1/8W
Rb73	PD14BY2B472J	Insulated Carbon Film	4.7k Ω	±5%	1/8W

COIL/POTENTIOMETER

Lb1	L30-0206-05	FM-I FT	
Lb2	L30-0207-05	DESCR1	
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	L33-0096-05	Choke Coil	
Lb14	L33-0128-05	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	

Circuit No.	Part No.	Description	Remarks
CAPACITOR			
Cb1 ~ 16	CK94YG1E103Z	Ceramic	
Cb17, 18	CC94SL1H221K	TC ceramic	
Cb19	CE04W1A100	PC Electrolytic	
Cb20	CC94SL1H101K	TC ceramic	
Cb21, 22	CK94YG1E103Z	Ceramic	
Cb23	CC94SL1H220J	TC ceramic	
Cb24 ~ 27	CK94YG1E103Z	Ceramic	
Cb28	CC94SL1H221K	TC ceramic	
Cb29 ~ 31	CK94YG1E103Z	Ceramic	
Cb32	CC94SL1H100D	TC ceramic	
Cb37, 38	CK94YG1E103Z	Ceramic	
Cb39	CC94SL1H220J	TC ceramic	
Cb40	CK94YG1E473Z	Ceramic	
Cb41	or CK94YG1E403Z	Ceramic	
Cb42	CC94SL1H100D	TC ceramic	
Cb43, 44	CC94SL1H331K	TC ceramic	
Cb45	CC94SL1H101K	TC ceramic	
Cb46	CK94YG1E103Z	Ceramic	
Cb47	CA06E1ER68X	Solid Aluminum	
Cb48	CC94SL1H100D	TC ceramic	
Cb49	CK94YG1E473Z	Ceramic	
Cb50	CE04W1H010	PC Electrolytic	
Cb51 ~ 53	CK94YG1E473Z	Ceramic	
Cb54	or CK94YG1E403Z	Ceramic	
Cb55	CO93M1H223K	Mylar	
Cb56	CK94YG1E103Z	Ceramic	
Cb57	CK94YG1E473Z	Ceramic	
Cb58 ~ 60	CE04W1E3R3	PC Electrolytic	
Cb61	CK94YG1E473Z	Ceramic	
Cb62	CC94SL1H101K	TC ceramic	
Cb63, 64	CK94YG1E403Z	Ceramic	
Cb65	CO93M1H223K	Mylar	
Cb66	or CK94YG1E473Z	Ceramic	
Cb67	CK94YY1H472M	Ceramic	
Cb68	CE04W0F101	PC Electrolytic	
	CK94YG1E473Z	Ceramic	

Circuit No.	Part No.	Description	Remarks
Rb36	PD14BY2B680J	Insulated Carbon Film	
Rb37	PD14BY2B102J	Insulated Carbon Film	
Rb38	PD14BY2B331J	Insulated Carbon Film	
Rb39	PD14BY2B152J	Insulated Carbon Film	
Rb40	PD14BY2B332J	Insulated Carbon Film	
Rb41, 42	PD14BY2B103J	Insulated Carbon Film	
Rb43	PD14BY2B663J	Insulated Carbon Film	
Rb44	PD14BY2B473J	Insulated Carbon Film	
Rb45	PD14BY2B333J	Insulated Carbon Film	
Rb46	PD14BY2B221J	Insulated Carbon Film	
Rb47	PD14BY2B224J	Insulated Carbon Film	
Rb48	PD14BY2B662J	Insulated Carbon Film	
Rb49	PD14BY2B563J	Insulated Carbon Film	
Rb50	PD14BY2B102J	Insulated Carbon Film	
Rb51	PD14BY2B220J	Insulated Carbon Film	
Rb52	PD14BY2B393J	Insulated Carbon Film	
Rb53	PD14BY2B224J	Insulated Carbon Film	
Rb54	PD14BY2B473J	Insulated Carbon Film	
Rb55	PD14BY2B102J	Insulated Carbon Film	
Rb56	PD14BY2B152J	Insulated Carbon Film	
Rb57	PD14BY2B622J	Insulated Carbon Film	
Rb58	PD14BY2B333J	Insulated Carbon Film	
Rb59	PD14BY2B331J	Insulated Carbon Film	
Rb60	PD14BY2B220J	Insulated Carbon Film	
Rb61	PD14BY2B224J	Insulated Carbon Film	
Rb62	PD14BY2B222J	Insulated Carbon Film	
Rb63	PD14BY2B470J	Insulated Carbon Film	
Rb64	PD14BY2B102J	Insulated Carbon Film	
Rb65	PD14BY2B333J	Insulated Carbon Film	
Rb66	PD14BY2B392J	Insulated Carbon Film	
Rb67	PD14BY2B472J	Insulated Carbon Film	
Rb68	PD14BY2B682J	Insulated Carbon Film	
Rb69	PD14BY2B273J	Insulated Carbon Film	
Rb70	PD14BY2B101J	Insulated Carbon Film	
Rb71	PD14BY2B102J	Insulated Carbon Film	
Rb72	PD14BY2B821J	Insulated Carbon Film	
Rb73	PD14BY2B223J	Insulated Carbon Film	
Rb75	PD14BY2B472J	Insulated Carbon Film	
TRANSISTOR/DIODE			
Cb1	2SC381 (O)		
Cb2	CS5895 (R)		
Cb3 ~ 5	CS5895 (B)		
Cb6, 7	2SC381 (R)		

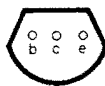
SCHEMATIC DIAGRAM

BOTTOM VIEW OF TRANSISTOR

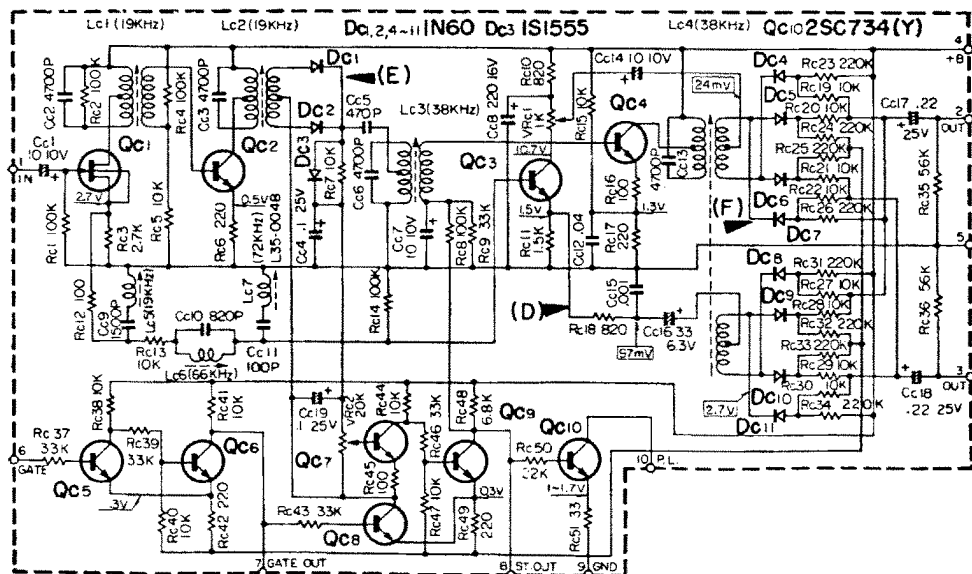
3SK30



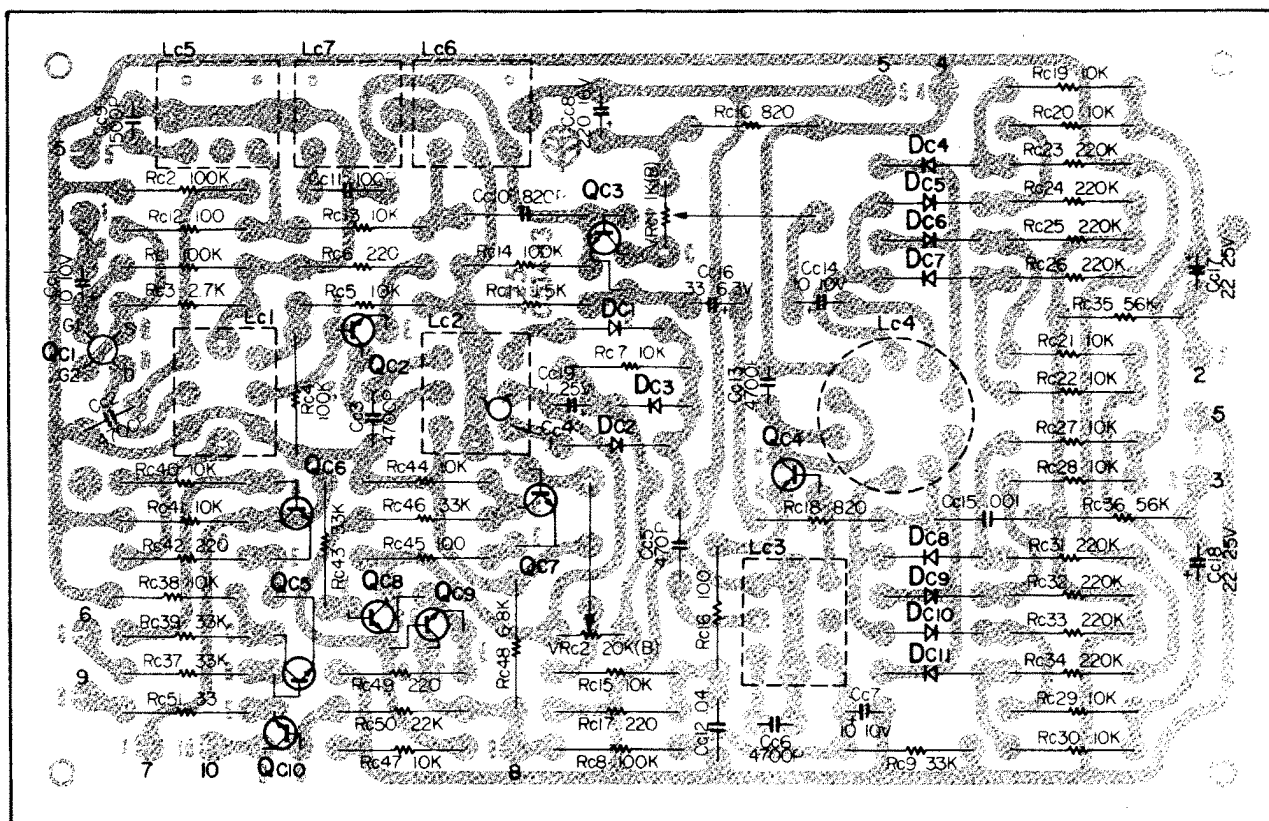
2SC870
2SC711



2SC734



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



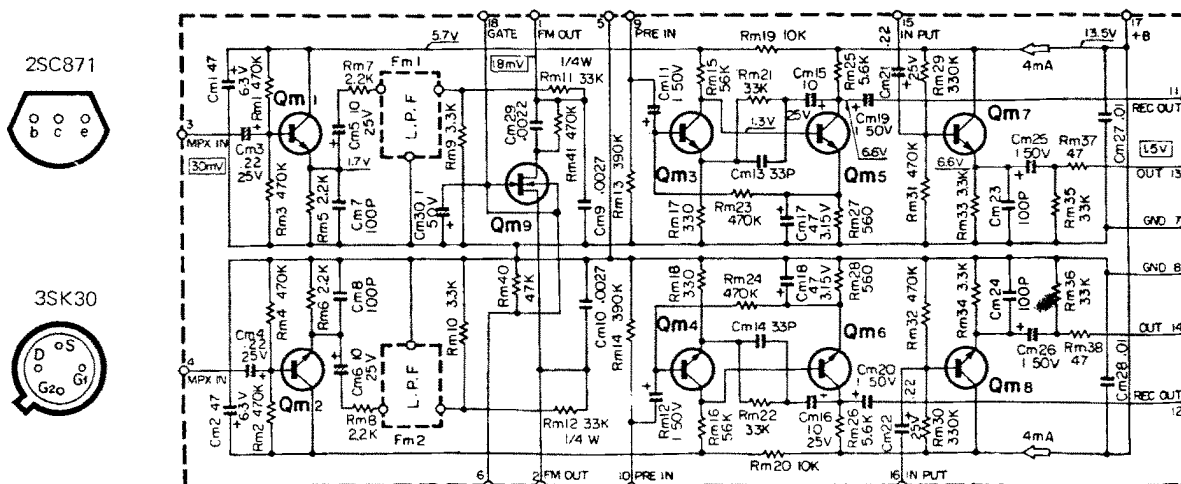
Qc1: 3SK30(C), Qc2,4: 2SC870(F), Qc3: 2SC711(F), Qc5,6,7,8,9: 2SC711(F), Qc10: 2SC734(Y), Dc1,2,4-11: IN60, Dc3: 1S1555

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

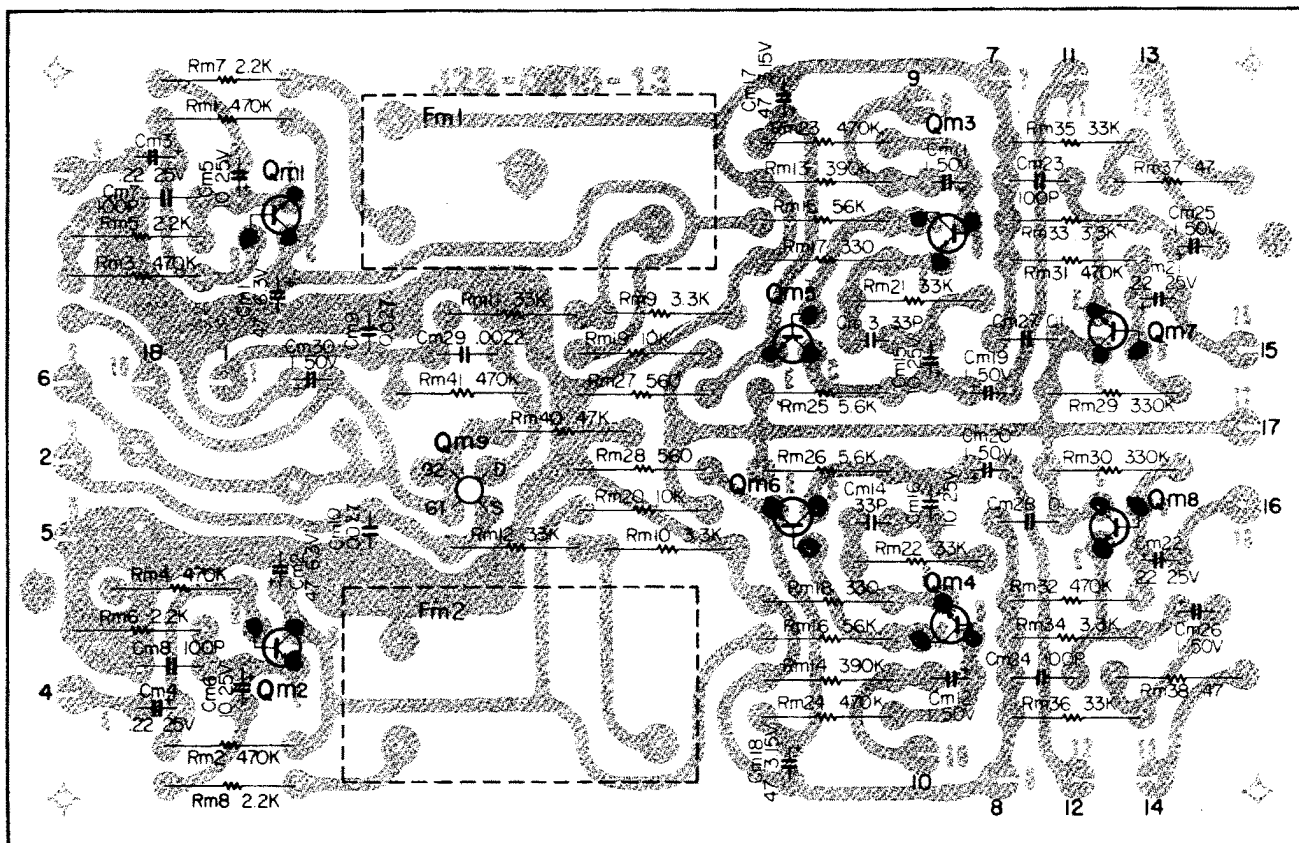
Circuit No.	Parts No.	Description	Remarks
CAPACITOR			
Cc1	CE04W1A100	PC Electrolytic 10 μ F 10WV	
Cc2, 3	CQ09S1H472J (X)	Polystyrene 0.0047 μ F $\pm$ 5%	
Cc4	CA06E1ER10X	Solid Aluminum 0.1 μ F 25WV	
Cc5	CQ08S2B471J	Polystyrene 470pF $\pm$ 5%	
Cc6	CQ09S1H472J (X)	Polystyrene 0.0047 μ F $\pm$ 5%	
Cc7	CE04W1A100	PC Electrolytic 10 μ F 10WV	
Cc8	CE04W1C22J	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	
Rc50	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	

SCHEMATIC DIAGRAM

BOTTOM VIEW OF TRANSISTOR



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



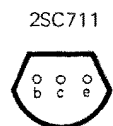
Qm1,2,3,4: 2SC871 E, Qm5,6,7,8: 2SC871 E or F, Qm9: 3SK30(A)

PARTS DESCRIPTION LIST

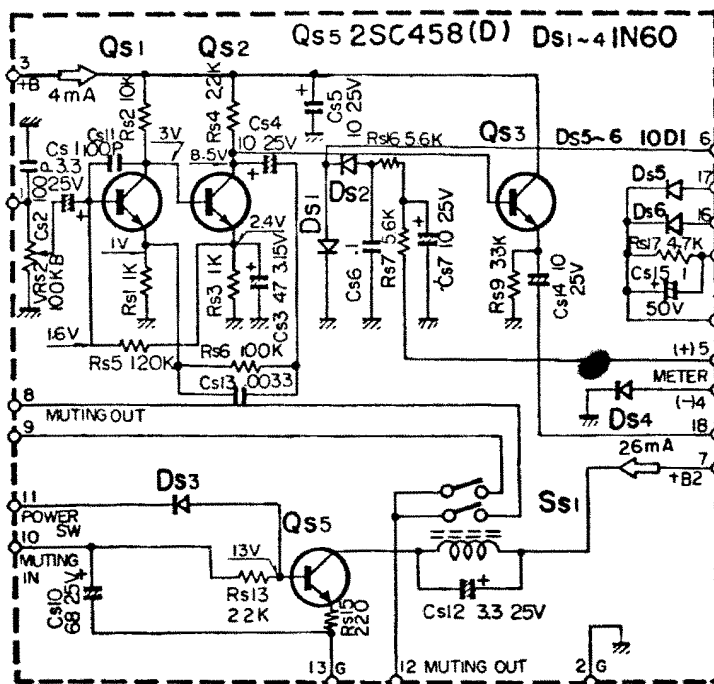
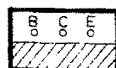
Circuit No.	Parts No.	Description				Remarks
CAPACITOR						
Cm1, 2	CE04W0J470	PC Electrolytic	47μF	6.3WV		
Cm3, 4	CA06E1ER22M (X)	Solid Aluminum	0.22μF	25WV		
Cm5, 6	CE04W1E100	PC Electrolytic	10μF	25WV		
Cm7, 8	CC94SL1H101K	TC Ceramic	100pF	±10%		
Cm9, 10	C90-0087-05	Polystyrene	0.0027μF	±3%		
Cm11,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

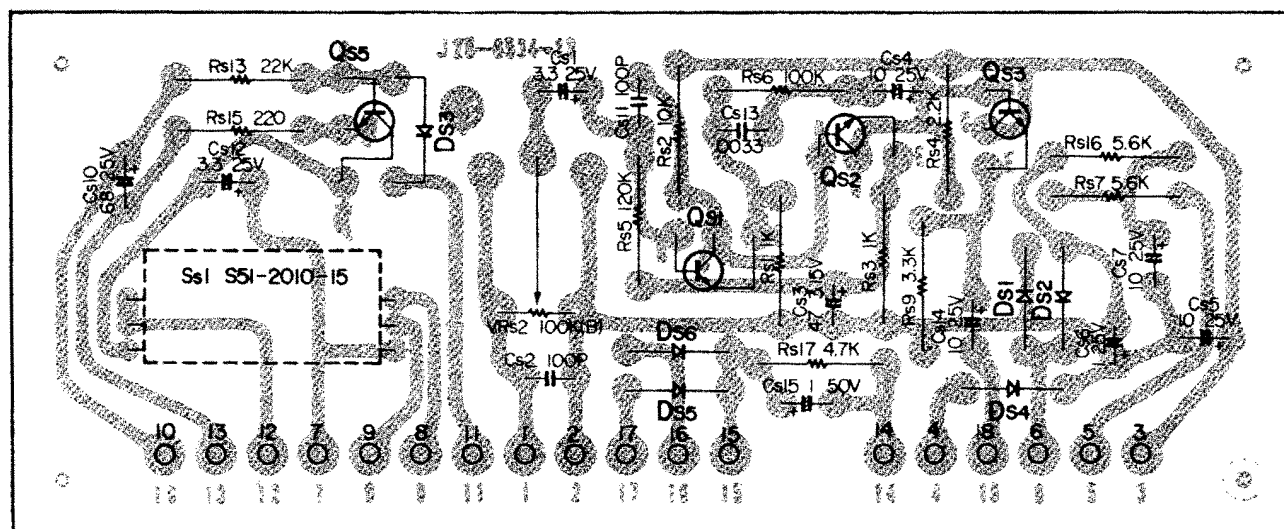
BOTTOM VIEW OF TRANSISTOR



2SC458



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Qs1,2:2SC711-E, Qs3:2SC711-E or F, Qs5:2SC458-D, Ds1~4:1N60, Ds5,6:10DI

PARTS DESCRIPTION LIST

Circuit No.	Parts No.	Description				Remarks
CAPACITOR						
Cs1	CE04W1E3R3	PC electrolytic	3.3μF	25WV		
Cs2	CC94SL1H101K	TC ceramic	100pF	±10%		
Cs3	CE04W0F470	PC electrolytic	47μF	3.15WV		
Cs4, 5	CE04W1E100	PC electrolytic	10μF	25WV		
Cs6	CA06E1ER10X	Solid aluminum	0.1μF	25WV		
Cs7	CE04W1E100	PC electrolytic	10μF	25WV		
Cs10	CA06E1ER68X	Solid aluminum	0.68μF	25WV		
Cs11	CC94SL1H101K	TC ceramic	100pF	±10%		
Cs12	CE04W1E3R3	PC electrolytic	3.3μF	25WV		
Cs13	CK94YY1H332M	Ceramic	0.0033μF	±20%		
Cs14	CE04W1E100	PC electrolytic	10μF	25WV		
Cs15	CE04W1H010	PC electrolytic	1μF	50WV		
RESISTOR						
Rs1	PD14BY2E102J	Insulated carbon film	1kΩ	±5%	1/4W	
Rs2	PD14BY2E103J	Insulated carbon film	10kΩ	±5%	1/4W	
Rs3	PD14BY2E102J	Insulated carbon film	1kΩ	±5%	1/4W	
Rs4	PD14BY2E222J	Insulated carbon film	2.2kΩ	±5%	1/4W	
Rs5	PD14BY2E124J	Insulated carbon film	120kΩ	±5%	1/4W	
Rs6	PD14BY2E104J	Insulated carbon film	100kΩ	±5%	1/4W	
Rs7	PD14BY2E562J	Insulated carbon film	5.6kΩ	±5%	1/4W	
Rs9	PD14BY2E332J	Insulated carbon film	3.3kΩ	±5%	1/4W	
Rs13	PD14BY2E223J	Insulated carbon film	22kΩ	±5%	1/4W	
Rs15	PD14BY2E221J	Insulated carbon film	220Ω	±5%	1/4W	
Rs16	PD14BY2E562J	Insulated carbon film	5.6kΩ	±5%	1/4W	
Rs17	PD14BY2E472J	Insulated carbon film	4.7kΩ	±5%	1/4W	
POTENTIOMETER/RELAY						
Rs2	R12-5019-05	PC trimmer potentiometer	100kΩ (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				

BALUN TRANS.

RF (X01-1000-10) Qa1 2SK19 (LOW NOISE) Qa2 2SK19-Y Qa3 3SK35

IF (X02-1000-10) Qb1,8-10 2SC381(C) Qb2 CS5995(R)

SUB (X13-1000-10) Qs1,2 2SC711E Qs3 2SC711E or F Qs5 2SC458(D) Ds1-4 1N60

MPX (X04-1000-10) Qc1 3SK30(C) Qc2,4 2SC870(F) Qc3 2SC871(F) Qc5-9 2SC711(F) Qc10 2SC734(Y)

AF (X08-1000-10)

COMPONENTS: C1-C67, R1-R55, D1-D6, Q1-Q10, S1-S5, M1, L1-L10, K1-K2, S3, S4, S5-1r, S5-2r, S5-3r, S5-11, S5-31.

FUNCTIONAL BLOCKS: BALUN TRANS., RF, IF, SUB, MPX, AF, SIGNAL/MULTIPATH, S2 MUTING, S5 SELECTOR.

Labels: (A), (B), (C), (D), (E), (F), (G).

