KENWOOD
HI/FI STEREO COMPONENTS

SERVICE MANUAL

KT-5000

SOLID STATE AM-FM STEREO TUNER

PARTS DESCRIPTION LIST

MAIN CHASSIS (BB4JK) SECTION

Symbol No.	Description				Part No.	Remarks
	P C BOARD					
–	RF	(UA1125K1)			X01-0025-11	
–	IF	(UA1224K1)			X02-0020-11	
–	MPX	(UA14023C)			X04-0003-13	
–	PRE	(UA13044D)			X08-0002-94	
	CAPACITOR					
C100	Ceramic	0.01μF	+100%,	−0%	C90-0029-05	
C101	Electrolytic Tubular	1000μF	16WV		CE02W1C102	
C102, 103	Oil Impregnated Paper	0.022μF	±20%		CP02B2J223M	
C104	Electrolytic Tubular	470μF	35WV		CE02W1V471	
C105	Electrolytic Tubular	470μF	25WV		CE02W1E471	
C106	Electrolytic Tubular	100μF	16WV		CE02W1C101	
C107	Mylar	0.0056μF	±5%		CQ93M1H562J	
C108	Mylar	0.0068μF	±10%		CQ93M1H682K	
C109	Electrolytic Tubular	220μF	3.15WV		CE04W0F221	
C110	Electrolytic Tubular	33μF	16WV		CE04W1C330	
C111	Ceramic	30pF	±10%		CC94SL1H300K	
C112, 113	Ceramic	330pF	±10%		CC94SL1H331K	
C501	Ceramic	100pF	±10%		CC94SL2H101K	
	RESISTOR					
R101	Fixed Carbon Composition	56Ω	±10%	1W	RC05GF3A560K	
R102	Fixed Carbon Composition	1kΩ	±10%	1/2W	RC05GF2H102K	
R104, 105	Fixed Carbon Composition	1kΩ	±10%	1/2W	RC05GF2H102K	
R107	Fixed Carbon Composition	12kΩ	±5%	1/2W	RC05GF2H123K	
R108	Fixed Carbon Composition	470Ω	±10%	1/4W	RC05GF2E471K	
R109	Fixed Carbon Composition	560kΩ	±10%	1/4W	RC05GF2E564K	
R110, 111	Fixed Carbon Composition	47Ω	±5%	2W	RN14AB3D470J	
R112	Insulated Carbon Film	560Ω	±10%	1/4W	PD14BY2E561K	
R113	Fixed Carbon Composition	100kΩ	±10%	1/2W	RC05GF2H104K	
R114	Fixed Carbon Composition	1MΩ	±10% or 20%	1/2W	RC05GF2H105K or M	
	TRANSISTOR/DIODE					
Q20	ST-303					
D20	10D1					
D21	1S850					
D22	1S338T					
D23, 24	1N60					
	SWITCH					
S1	SELECTOR (Rotary)				S04-2003-05	
S2	MUTING (Two Lever)				S38-2002-05	
S3	MPX FILTER (Two Lever)				S38-2002-05	
S4	AC VOLTAGE SELECT (Slide)				S60-22D	
	MISCELLANEOUS					
–	Case				A01-CB1J	
–	Jewel Escutcheon				A02-BB1J	
–	Sole Plate				A08-CB1J	
–	Chassis				A10-0006-31	

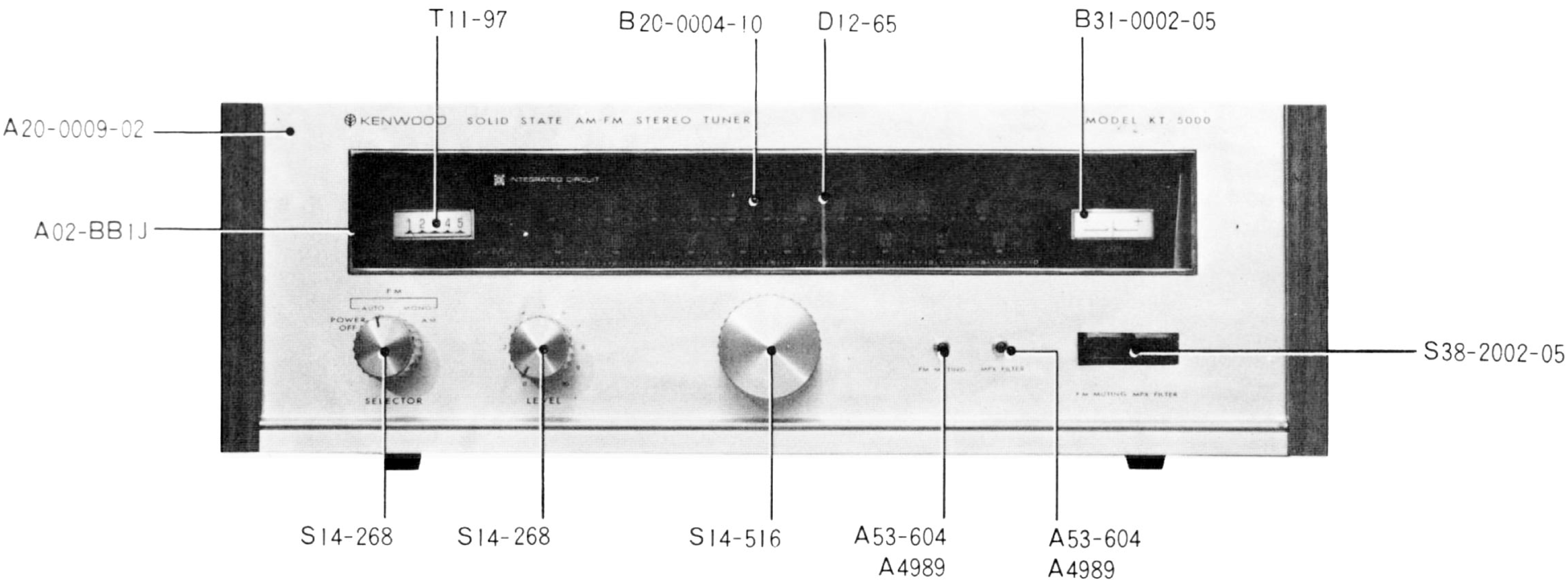
PARTS DESCRIPTION LIST

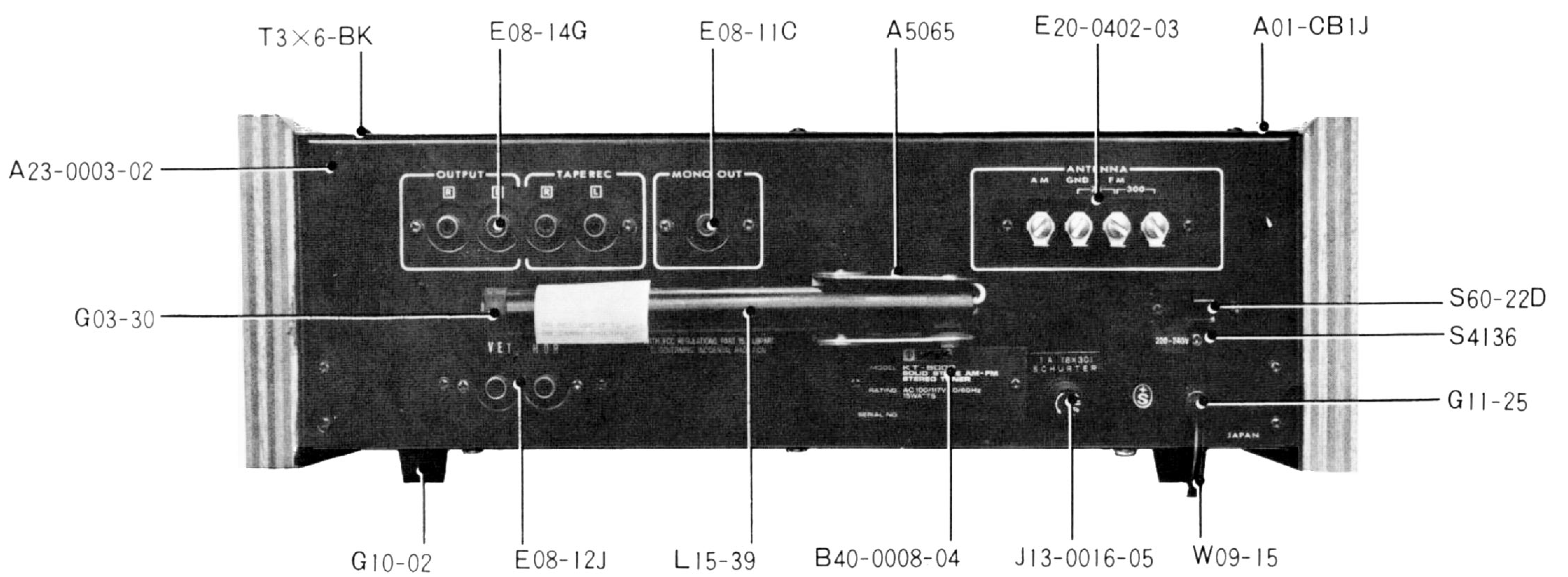
Symbol No.	Description	Part No.	Remarks
–	Panel Framework	A20-0007-02	
–	Panel	A20-0009-02	
–	Rear Panel	A23-0003-02	
–	Radiator	A27-11	
–	Dial Scale	A30-0010-02	
–	Reflector	A33-0005-03	
–	Jewel	A53-604	
–	Lamp Cover	A3794	
–	Lamp Cover	A3799	
–	AMP Holder	A3882	
–	Jewel Holder	A4989	
–	Front Glass Holder	A5029	
–	ANT Holder	H5065	
–	METER Holder	A5107B	
–	Name Plate	B09-191	
–	Caution Sticker	B09-192	
–	Front Glass	B10-0001-00	
–	Reflector	B19-0013-03	
–	Dial	B20-0004-10	
M	Tuning Meter	B31-0002-05	
–	Destination Name Plate	B40-0008-04	
–	Instruction Manual	B50-0538-00	
–	Schematic Diagram	B52-0001-00	
–	Caution Card (for Power Supply)	B58-0003-00	
–	Caution Card	B58-0043-00	
–	Caution Card	B58-0101-00	
–	Pulley	D04-70	
–	Flywheel	D05-52B	
–	Dial Spring	D06-02	
–	Small Pulley	D09-14B	
–	Pointer Metal Fittings	D11-18	
–	Pointer	D12-65	
–	Dial Shaft	D20-0001-13	
–	PL Socket	E03-02F	
J	1P Pin Jack	E08-11C	
J	2P Pin Jack	E08-12J	
J	4P Pin Jack	E08-14G	
J	4P Pin Jack	E20-0402-03	
–	Legs	G10-02	
–	AC Cord Bushing	G11-25	
–	Corrugated Cardboard Case	H01-0012-03	
–	Corrugated Cardboard Case	H02-0126-03	
–	Warranty Card	H26-02	
–	Fuse Holder	J13-0016-05	
–	Fuse Holder	J13-0023-05	
–	Side Board	K10-09	
–	Side Board	K10-10	
P. T	Power Transformer	L01-0001-05	
ANT	FM Antenna	L10-04	
ANT	AM Antenna	L15-39	
L1	RF Choke Coil	L20-010	
–	Decorative Screw	N08-0003-04	

PARTS DESCRIPTION LIST

Symbol No.	Description	Part No.	Remarks
–	Decorative Screw	N08-0008-04	
–	Shaft Bearing	N4101	
VR10	LEVEL 50kΩ (B) dual	R08-4001-05	
–	Knob (SELECTOR, LEVEL, 23φ)	S14-268	
–	Knob (TUNING, 38φ)	S14-516	
P. L	Pilot Lamp	S16-06	
P. L	Pilot Lamp	S16-19	
P. L	Pilot Lamp	S16-22	
F	Fuse (1A)	S17-01	
M	Signal Meter	T11-97	
–	AC Cord	W09-05	
–	TV Feeder	W16-01	
–	Audio Cord	W18-03	

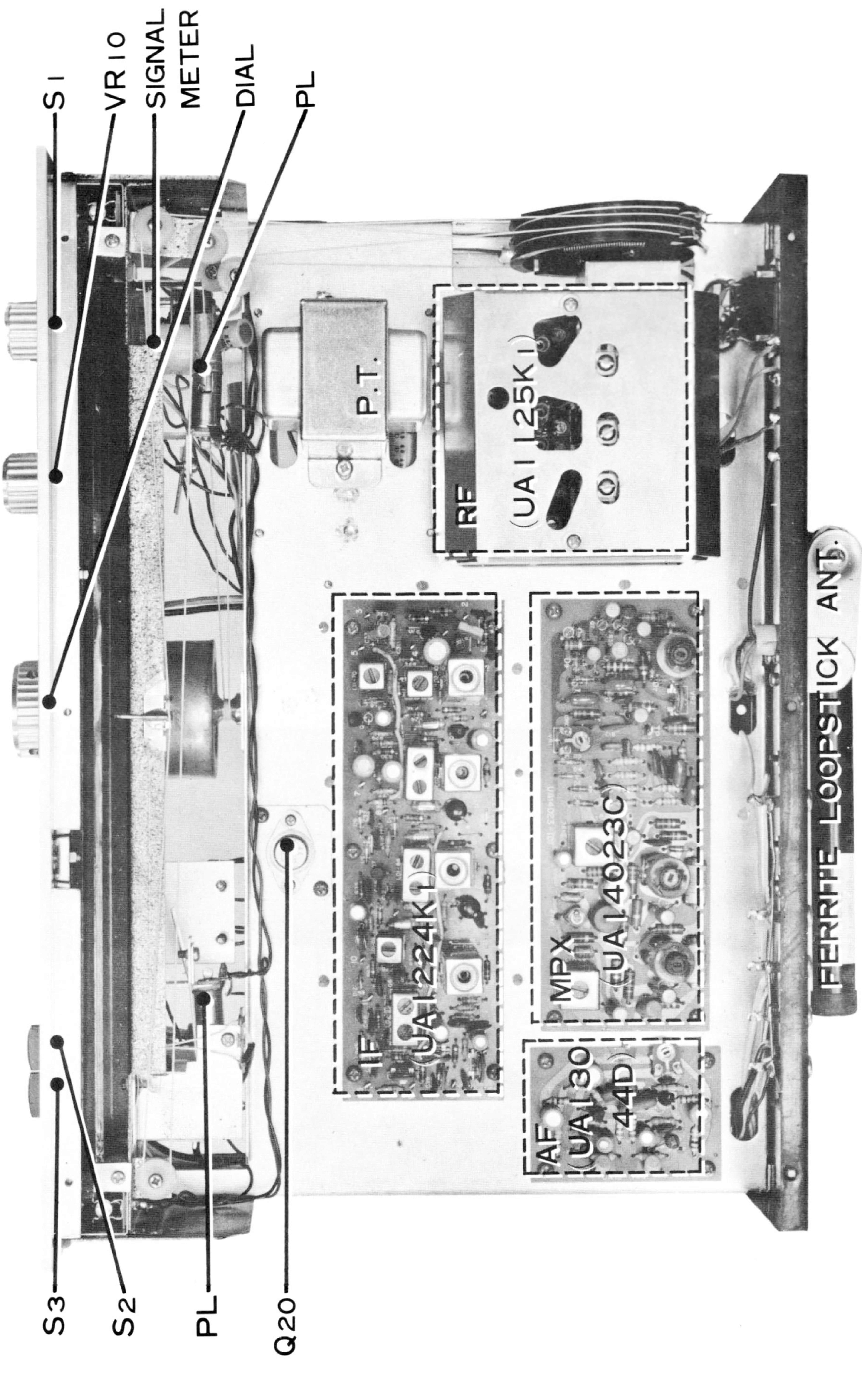
EXTERNAL VIEW



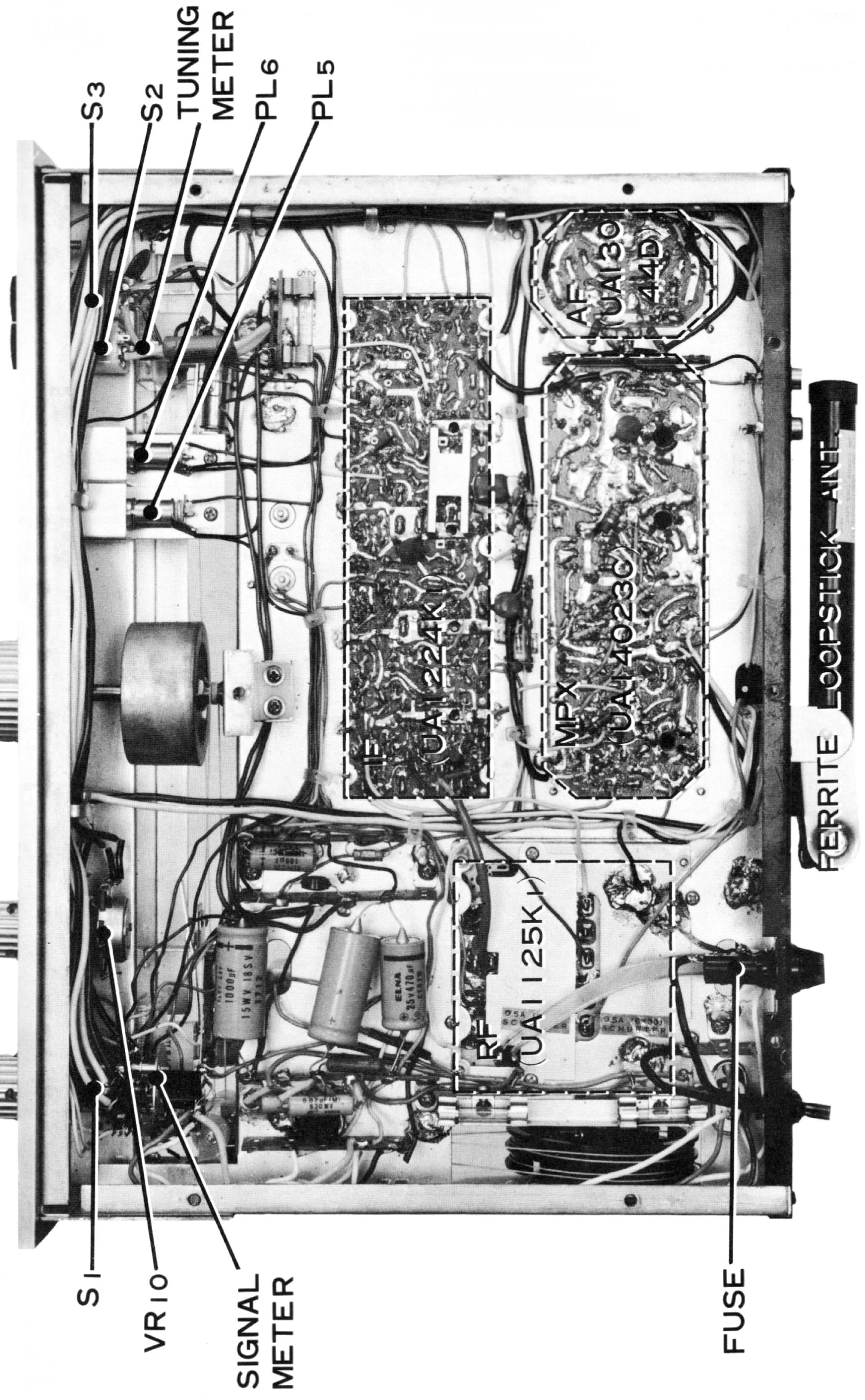


NUMBER INDICATES PARTS NUMBER

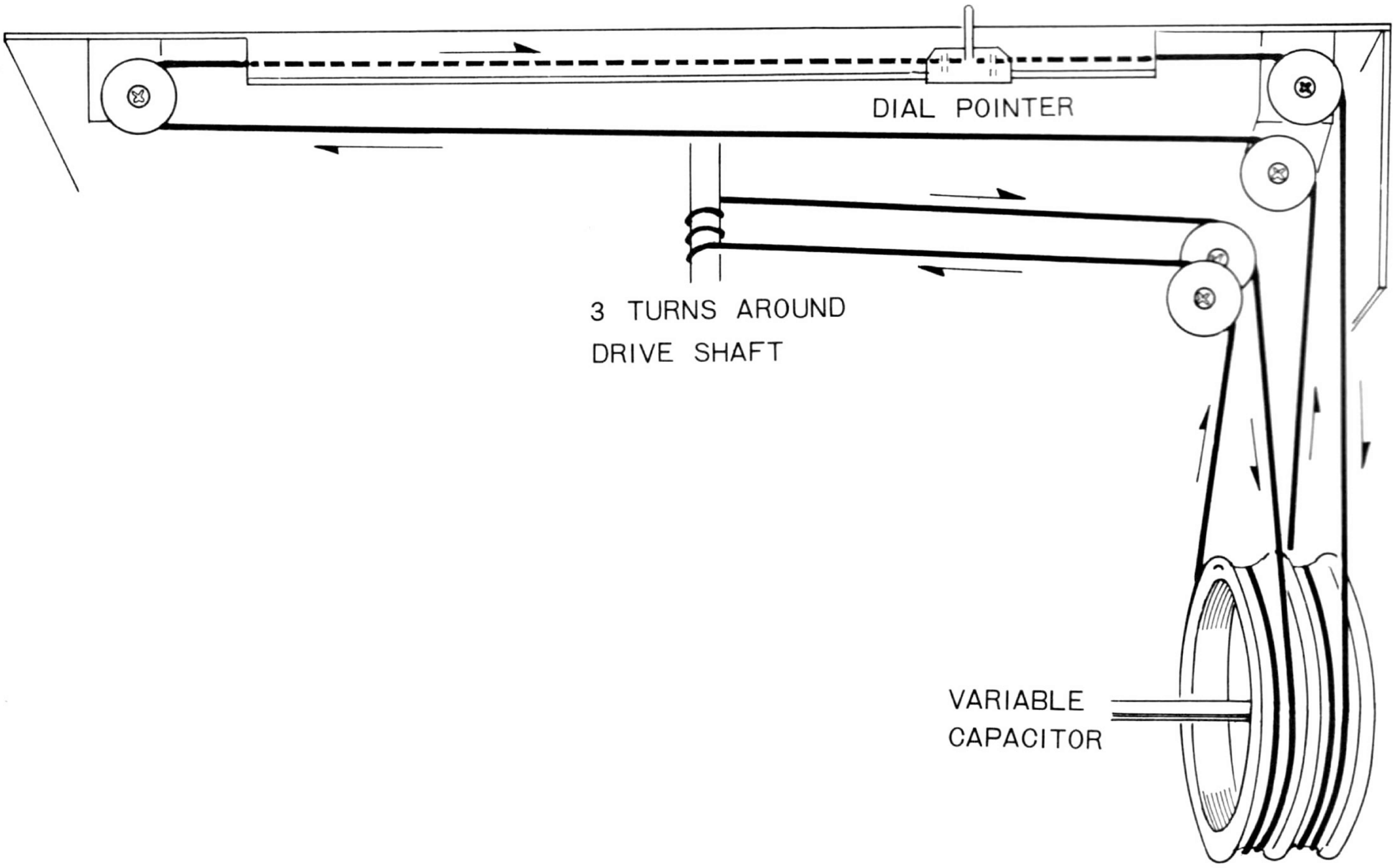
CHASSIS TOP VIEW



CHASSIS BOTTOM VIEW



DIAL CORD STRINGING



ADJUSTING THE SQUELCH (MUTING)

When the POWER SWITCH is set to "FM MUTING" position with ANT input at 10μV, the audio (AF) output should be within ±1dB of the value at ANT input of 1 mV.
At ANT input of 3μV with POWER SWITCH set to "FM MUTING" position, adjust VRb3 (UA1224K1) so that the audio frequency voltage is attenuated to below −40 dB.
Be sure that the set is inoperative when POWER SWITCH is at "ON" position.

FM MPX ALIGNMENT PROCEDURE

(a) SCA FILTER

Instruments: Audio SG, AC VTVM & Oscilloscope.
Selector sw: Always place in FM AUTO position.
Warm-up: Allow 30 minutes warm-up period for Receiver and equipments.

STEP	AUDIO SIGNAL GENERATOR COUPLING	AUDIO SIGNAL GENERATOR FREQUENCY	AC VTVM & OSCILLO-SCOPE COUPLING	ADJUST	REMARKS
1	High side to (B) Low side to chassis	72 kHz (0.7V)	High side to (C) Low side to chassis	(UA14023C) Lc 4	Minimum Deflection
2	High side to (B) Low side to chassis	66 kHz (0.7V)	High side to (C) Low side to chassis	(UA14023C) CTc 1	Minimum Deflection

(b) BEACON LAMP

Instruments: MPX SG, AC VTVM & Oscilloscope.
Selector sw: Always place in FM AUTO position.
Warm-up: Allow 30 minutes warm-up period for Receiver and equipments.

STEP	FM SSG		AC VTVM & OSCILLOSCOPE CONNECTION	TUNING DIAL SETTING	ADJUST	REMARKS
	COUPLING	INPUT SIGNAL				
1	FM Antenna terminal	98 MHz 400 Hz (Mod.) L + R 67.5 kHz (Dev.) 1 mV (Ant. Input)	TAPE REC.	Maximum	VRb 4 (UA1224K1) VRc 2 (UA14023C)	Set check point to 6V Stereo lamp illuminates
2	FM Antenna terminal	98 MHz 400 Hz (Mod.) L + R 40 kHz (Dev.) 6.5μV (Ant. Input)	TAPE REC.	Maximum	VRc 1 (UA14023C)	Stereo lamp illuminates

FM ALIGNMENT PROCEDURE

Instruments:	FM, SG, AC VTVM & oscilloscope.
Warm-up:	Allow 30 minutes ward-up period for receiver and equipments.
Selector sw:	Always place in FM AUTO position.
Alignment tools:	IF transformers require a plastic screwdriver-type alignment tool.

STEP	ALIGN	DUMMY ANTENNA	FM SSG		TUNING DIAL SETTING	OUTPUT INDICATOR	ADJUST	REMARKS
			COUPL-ING	INPUG SIGNAL				
1	**IFT**	Direct	High side to (A) Low side to Chassis	10.7 MHz (Unmod.)	Any non-interfering setting	Signal Indicator	(UA1125K1) Ta1	Maximum Deflection
2	**DIS-CRIMI-NATOR**	300 ohm Carbon Resistor	FM Antenna Terminal	98 MHz 400 Hz(Mod.) 75 kHz(Dev.) 0.5 ~1 mV (Input)	Tune for maximum using tuning indicator	VTVM at LEFT output jack of TAPE REC	(UA1224K1) Lb8 Top & Bottom	Maximum Deflection
3	**RF AMP CIRCUIT**	300 ohm Carbon Resistor	FM Antenna Terminal	90 MHz 400 Hz(Mod.) 75 kHz(Dev.) 1.5μV~2μV (Input)	90 MHz	VTVM & Xtal earphone at LEFT output jack of TAPE REC	(UA1125K1) La1 ~4	Maximum Deflection
4	**RF AMP CIRCUIT**	300 ohm Carbon Resistor	FM Antenna Terminal	105 MHz 400 Hz(Mod.) 75 kHz(Dev.) 1.5μV~2μV (Input)	105 MHz	VTVM & Xtal earphone at LEFT output jack of TAPE REC	(UA1125K1) CTa1 ~4	Maximum Deflection
5	Repeat steps 3 & 4 until no further improvement is possible.							
6	**OUTPUT LEVEL**	300 ohm Carbon Resistor	FM Antenna Terminal	98 MHz 400 Hz(Mod.) 75 kHz(Dev.) 1 mV (Input)	Tune for maximum using tuning	VTVM & Xtal earphone at LEFT output jack of TAPE REC	(UA1224K1) VRb1	Set the output level to 1 V
7	**METER SETT-ING**	300 ohm Carbon Resistor	FM Antenna Terminal	98 MHz 400 Hz(Mod.) 75 kHz(Dev.) 1 mV (Input)	Tune for maximum deflection VTVM & Xtal earphone at LEFT output jack of TAPE REC	Signal Indicator	(UA1224K1) Lb7, VRb2	"4" indicated
8	**METER SETT-ING**	300 ohm Carbon Resistor	FM Antenna Terminal	98 MHz 400 Hz(Mod.) 75 kHz(Dev.) 1 mV (Input)	TUNE for maximum deflection VTVM & Xtal earphone at LEFT output jack of TAPE REC	Tuning Indicator	(UA1224K1) Lb8	Set the center or between black lines

(c) MPX

Instruments: FM SG, Audio SG, AC VTVM & Oscilloscope.
Selector sw: Always place in FM AUTO position.
Warm-up: Allow 30 minutes warm-up period for Receiver and equipments.

STEP	ALIGN	FM SSG			19 kHz PILOT CARRIER SWITCH	AC VTVM & OSCILLO-SCOPE CONNEC-TION	ADJUST	REMARKS
		COUPL-ING	MODULA-TION FRE-QUENCY	INPUT SELEC-TOR				
1	**19 kHz STAGE**	FM Antenna terminal	OFF	OFF	ON	High side to (D) Low side to chassis	(UA14023C) Lc1, Lc2	Maximum Deflection
2	**38 kHz STAGE**	FM Antenna terminal	400 Hz (Mod.)	L + R or REVERSE	ON	Left or Right jack of TAPE REC.	(UA14023C) Lc2	To obtain a stable wave form at 400 Hz on Oscillo-scope
3	**SEPARA-TION CONTROL**	FM Antenna terminal	98 MHz 2kHz(Mod.) 67.5 kHz (Dev.) 1mV(Input)	LEFT	ON	Right jack of TAPE REC. output	(UA13044D) VRm1	Maximum Deflection
4	**SEPARA-TION CONTROL**	FM Antenna terminal	98 MHz 2kHz(Mod.) 67.5 kHz (Dev.) 1mV(Input)	RIGHT	ON	Left jack of TAPE REC. output	(UA13044D) VRm1	Minimum Deflection
5	Repeat steps 3 & 4 until no further improvement is possible.							

AM ALIGNMENT PROCEDURE

Alignment tools:	IF transformers require a plastic screwdriver-type alignment tool.
Instruments:	AM SG, AC VTVM & Oscilloscope.
Selector sw:	Always place in AM position.
Warm-up:	Allow 30 minutes warm-up period for Receiver and equipments.

STEP	ALIGN	DUMMY ANTENNA	AM SG			OUTPUT INDICATOR	ADJUST	REMARKS
			COUPL-ING	FRE-QUENCY	TUNING DIAL SETTING			
1	**IFT**	Direct	AM ANT terminals	455 kHz (400 Hz 30% AM)	Any non-interfering setting	Tuning Indicator, VTVM & Oscilloscope	(UA1224K1) Lb4 ~ 6 Top & Bottom	Maximum Deflection
2	**OSC**		AM ANT terminals	600 kHz (400 Hz 30% AM)	600 kHz	Tuning Indicator, VTVM & Oscilloscope	(UA1224K1) Lb11	Maximum Deflection
3	**OSC**		AM ANT terminal	1,400 kHz (400 Hz 30% AM)	1,400 kHz	Tuning Indicator, VTVM & Oscilloscope	(UA1124K1) CTa8	Maximum Deflection
4	Repeat steps 2 & 3 until no further improvement is possible.							
5	**RF AMP**		AM ANT terminal	600 kHz (400 Hz 30% AM)	600 kHz	Tuning Indicator, VTVM & Oscilloscope	(UA1224K1) Lb10	Maximum Deflection
6	**RF AMP**		AM ANT terminals	1,400 kHz (400 Hz 30% AM)	1,400 kHz	Tuning Indicator, VTVM & Oscilloscope	(UA1124K1) CTa7	Maximum Deflection
7	**ANT CIRCUIT**		AM ANT terminal	600 kHz (400 Hz 30% AM)	600 kHz	Tuning Indicator, VTVM & Oscilloscope	(UA1224K1) Lb10 Ferrite Bar ANT	Maximum Deflection
8	**ANT CIRCUIT**		AM ANT terminals	1,400 kHz (400 Hz 30% AM)	1,400 kHz	Tuning Indicator, VTVM & Oscilloscope	(UA1124K1) CTa6, 7	Maximum Deflection
9	Repeat steps 5 ~ 8 until no further improvement is possible.							

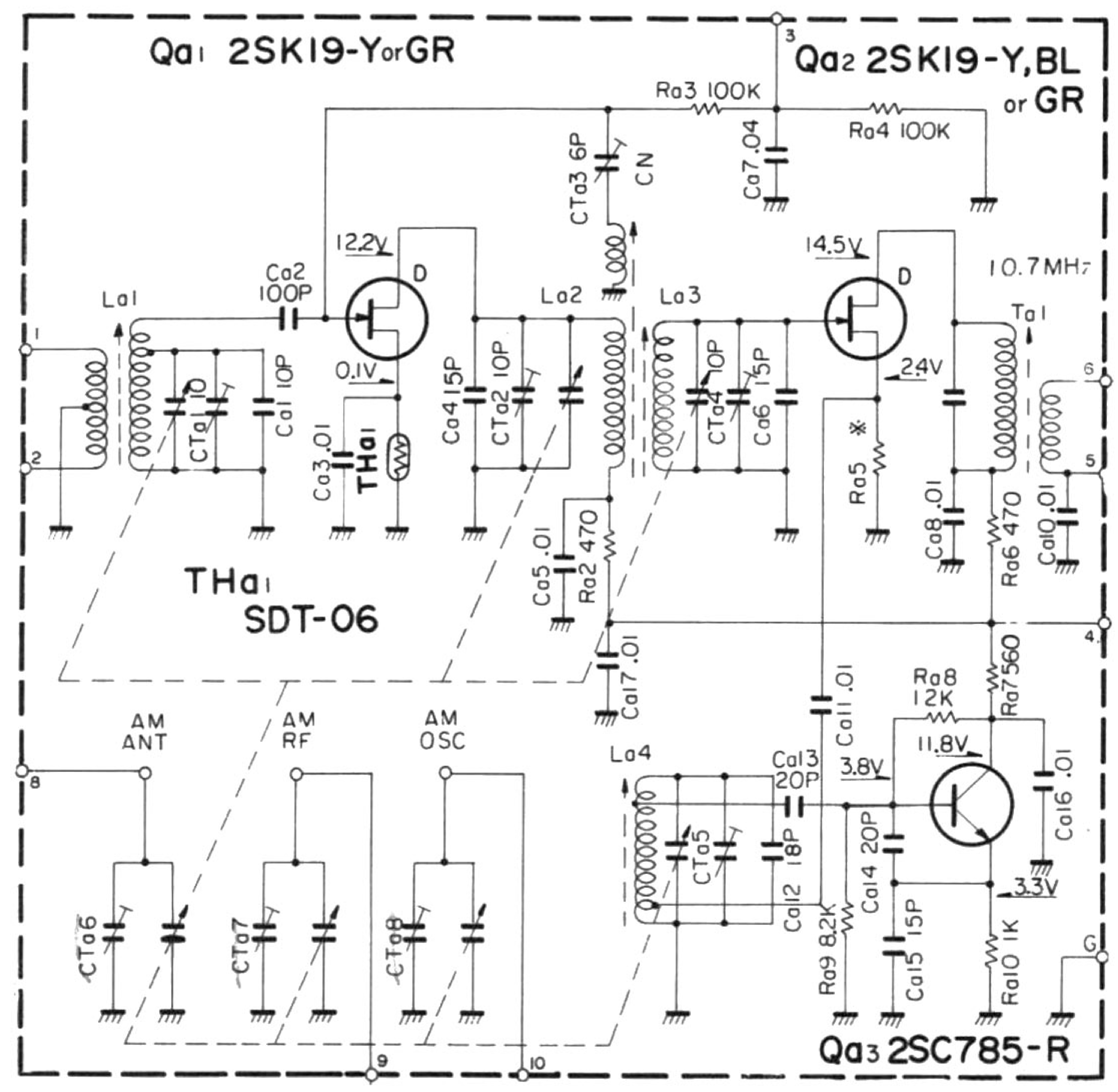
(KT-5000)

SCHEMATIC DIAGRAM

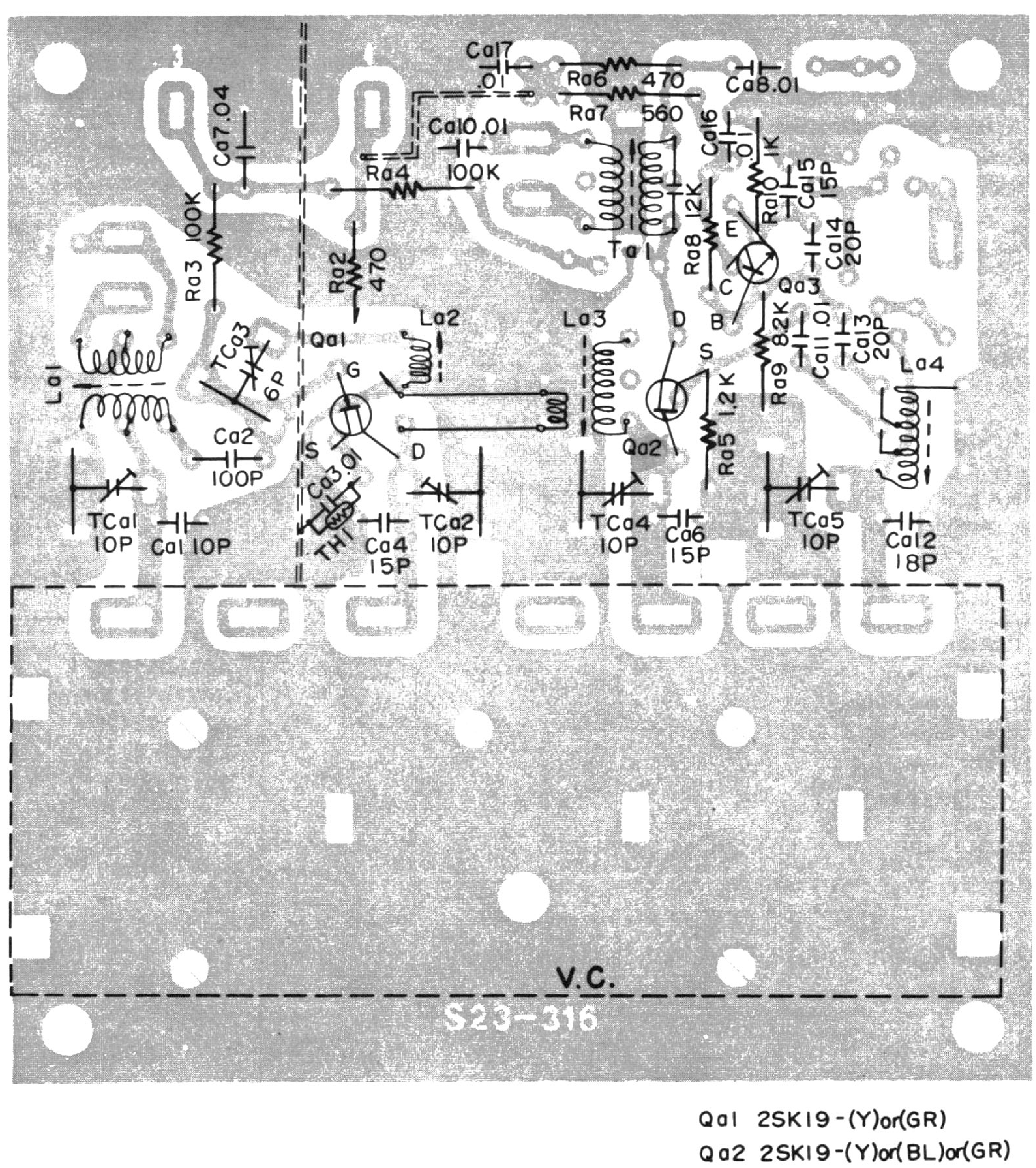
BOTTOM VIEW OF TRANSISTOR

2SK19(GR)or(BL)

2SC785R



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Qa1 2SK19-(Y)or(GR)
Qa2 2SK19-(Y)or(BL)or(GR)
Qa3 2SC785(R)

PARTS DESCRIPTION LIST

Symbol No.	Description	Part No.	Remarks
	CAPACITORS		
Ca1	Ceramic 10pF ±0.5pF	CC94TH1H100D	
Ca2	Ceramic 100pF ±10%	CC94SL1H101K	
Ca3	Ceramic 0.01μF	CK94YG1E103	
Ca4	Ceramic 15pF ±10%	CC94TH1H150K	
Ca5	Ceramic 0.01μF	CK94YG1E103	
Ca6	Ceramic 15pF ±10%	CC94TH1H150K	
Ca7	Ceramic 0.04μF	CK94YG1E403	
Ca8	Ceramic 0.01μF	CC94TH1E103	
Ca10, 11	Ceramic 0.01μF	CC94TH1E103	
Ca12	Ceramic 18pF ±5%	CC94TH1H180K	
Ca13, 14	Ceramic 20pF ±5%	CC94CH1H200J	
Ca15	Ceramic 15pF ±5%	CC94CH1H150J	
Ca16, 17	Ceramic 0.01μF	CK94YG1E103	
CTa1, 2	Ceramic Trimmer	C4036	
CTa3	Ceramic Trimmer	C4035	
CTa4, 5	Ceramic Trimmer	C4036	
V. C.	Variable Capacitor	D01-158	
	RESISTORS		
Ra2	Special Insulated Carbon Film 470Ω ±5% or 10% 1/8W	PD14BY2B471J	
Ra3, 4	Special Insulated Carbon Film 100kΩ ±5% or 10% 1/8W	PD14BY2B104J	
Ra5	Special Insulated Carbon Film 1.2kΩ 1.8kΩ or 3.3kΩ ±5% or 10% 1/8W		
	2SK19-Y 1.2kΩ	PD14BY2B122J	
	2SK19-GR 1.8kΩ	PD14BY2B182J	
	2SK19-BL 3.3kΩ	PD14BY2B332J	
Ra6	Special Insulated Carbon Film 470Ω ±5% or 10% 1/8W	PD14BY2B471J	
Ra7	Special Insulated Carbon Film 560Ω ±5% or 10% 1/8W	PD14BY2B561J	
Ra8	Special Insulated Carbon Film 12kΩ ±5% or 10% 1/8W	PD14BY2B123J	
Ra9	Special Insulated Carbon Film 8.2kΩ ±5% or 10% 1/8W	PD14BY2B822J	
Ra10	Special Insulated Carbon Film 1kΩ ±5% or 10% 1/8W	PD14BY2B102J	
	TRANSISTORS/THERMISTOR		
Qa1	2SK-19 (Y) or (GR)		
Qa2	2SK-19 (Y), (GR) or (BL)		
Qa3	2SC785-R		
THa1	SDT-06		
	COILS/TRANSFORMERS		
La1	RF Coil	L24-UA1125KRA	
La2	RF Coil	L24-UA1125KRB	
La3	RF Coil	L24-UA1125KRC	
La4	VHF OSC Coil	L34-0002-04	
Ta1	FM IFT	L52-10	
	MISCELLANEOUS		
—	P C Board	S23-316	
—	Front Chassis	A03-UA1125J1	
—	Front Rear Panel	A08-UA1125K	
—	Front Shielding Board	A13-UA1125K	
—	Front Cover	A90-UA1125K	
—	Coil Spacer	J30-0009-14	

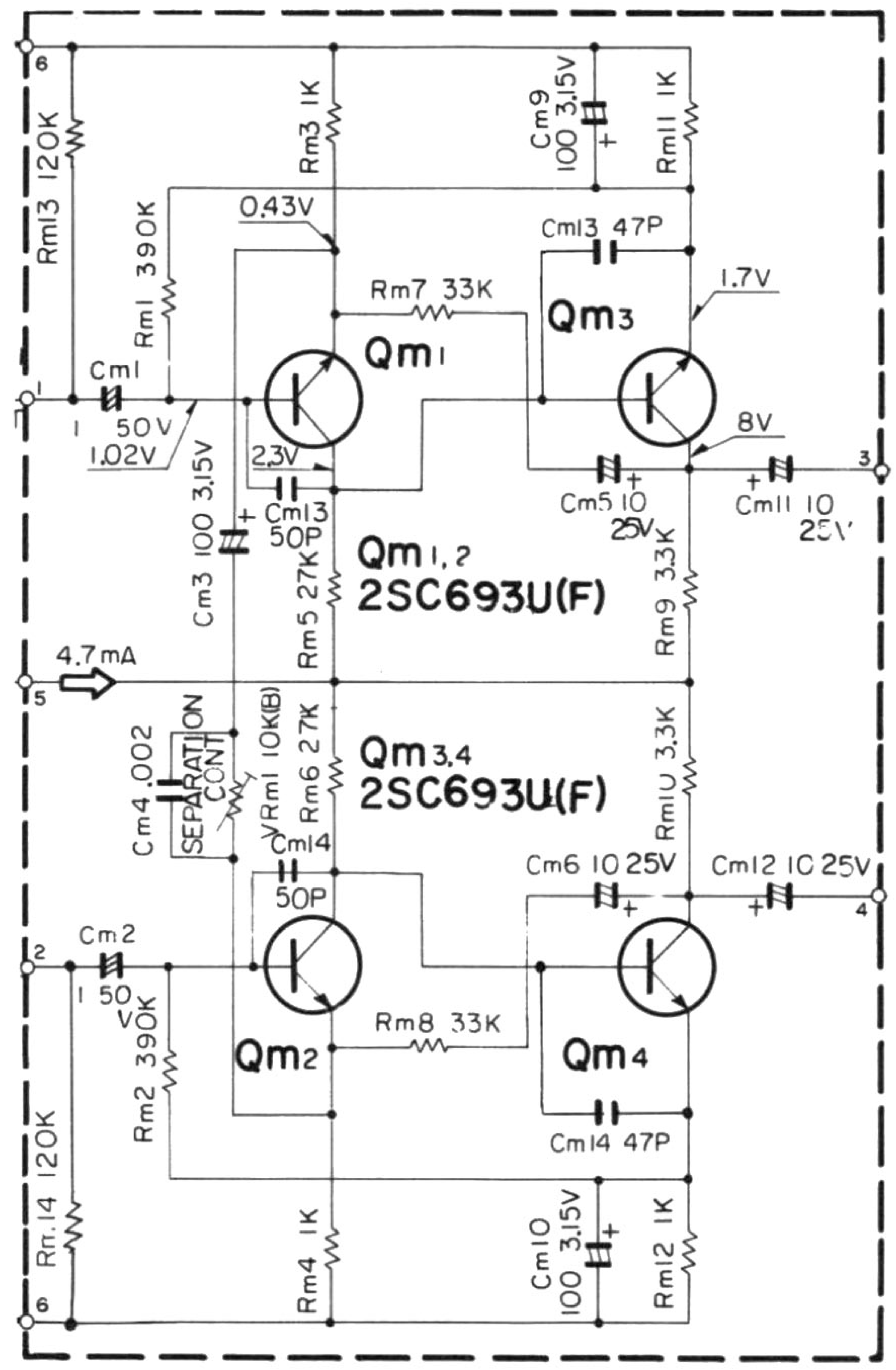
KENWOOD AUDIO AMP (UA13044D) SECTION

(KT-2001) (KT-3500) (KT-5000)

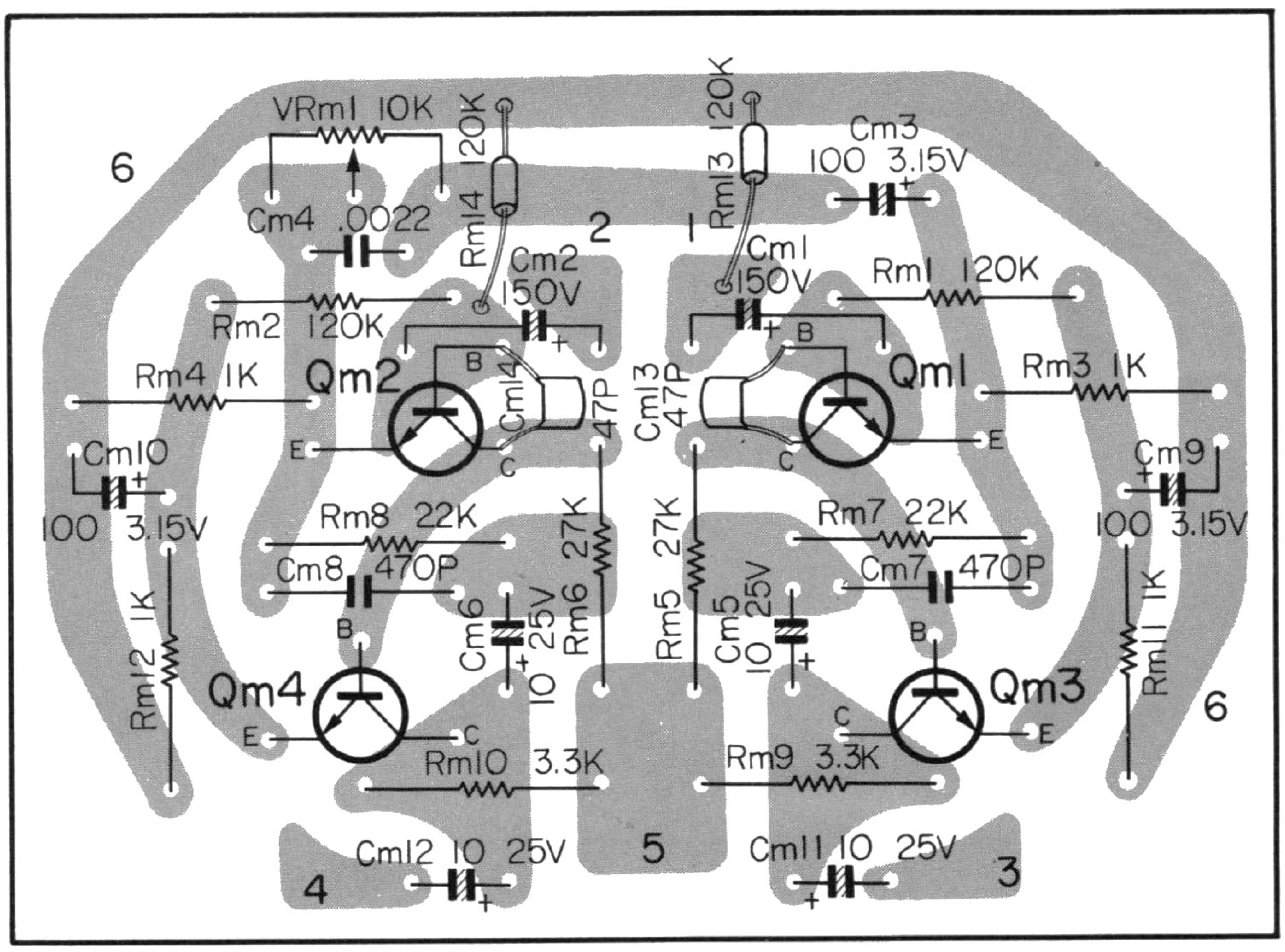
SCHEMATIC DIAGRAM

BOTTOM VIEW OF TRANSISTORS

2SC693



SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Qm1~4 2SC693u(F)

FROM THE SERIAL NO. 210301, KT-5000 IS CHANGED THE PREVIOUS UNIT FOR THIS.
FROM THE SERIAL NO. 220401, KT-3500 IS CHANGED THE PREVIOUS UNIT FOR THIS.

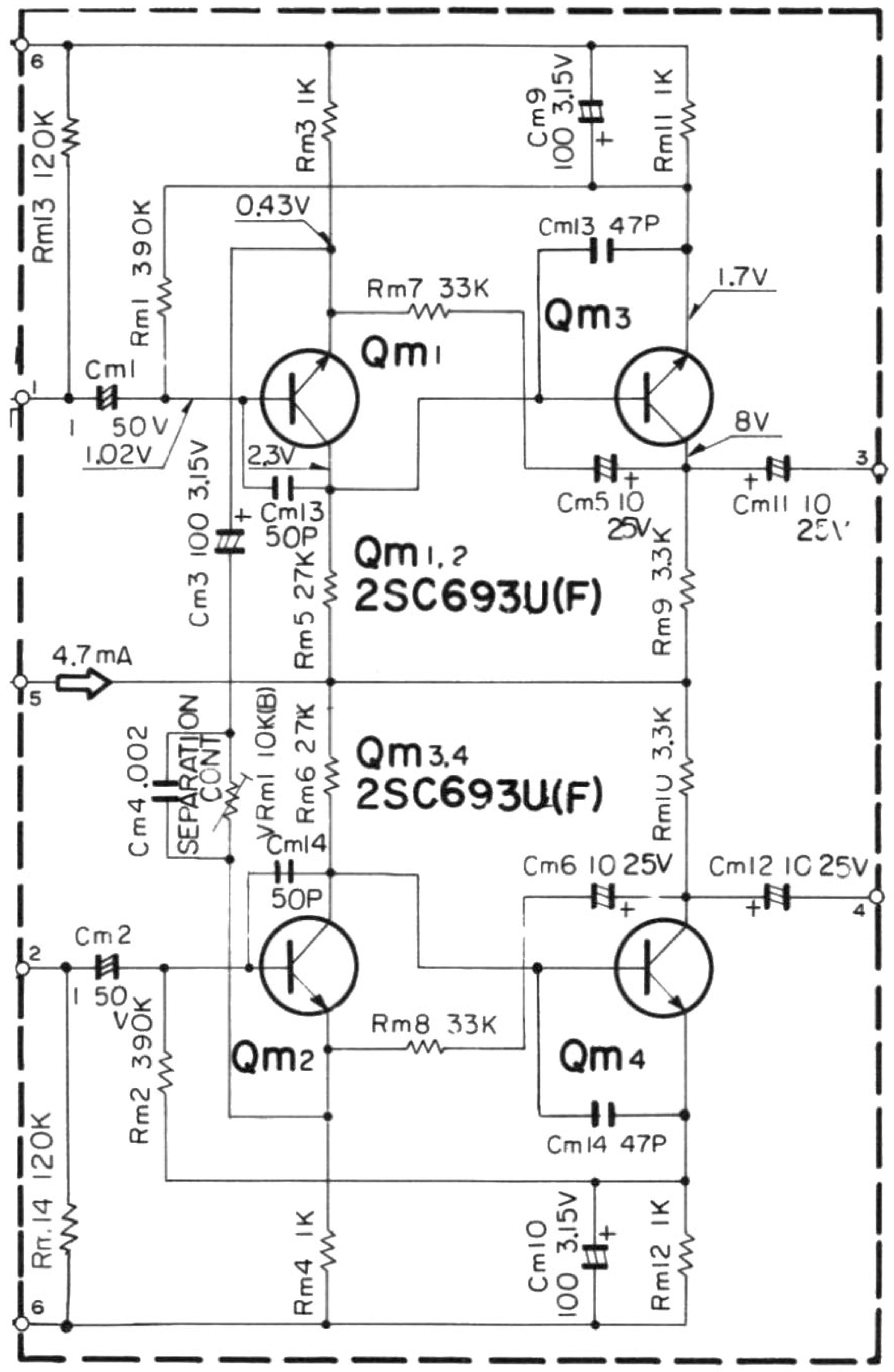
PARTS DESCRIPTION LIST

Symbol No.	Description				Part No.	Remarks
	CAPACITORS					
Cm1, 2	Electrolytic Tubular	1μF	50WV		CE04W1H010	
Cm3	Electrolytic Tubular	100μF	3.15WV		CE04W0F101	
Cm4	Ceramic	0.0022μF	±20%		CK94YY1H222M	
Cm5, 6	Electrolytic Tubular	10μF	25WV		CE04W1E100	
Cm9, 10	Electrolytic Tubular	100μF	3.15WV		CE04W0F101	
Cm11, 12	Electrolytic Tubular	10μF	25WV		CE04W1E100	
Cm13, 14	Ceramic	47pF	±10%		CC94SL1H470K	
	RESISTORS					
Rm1, 2	Insulated Carbon Film	390kΩ	±5%	1/4W	PD14BY2E394J	
Rm3, 4	Insulated Carbon Film	1kΩ	±5%	1/4W	PD14BY2E102J	
Rm5, 6	Insulated Carbon Film	27kΩ	±5%	1/4W	PD14BY2E273J	
Rm7, 8	Insulated Carbon Film	33kΩ	±5%	1/4W	PD14BY2E333J	
Rm9, 10	Insulated Carbon Film	3.3kΩ	±5%	1/4W	PD14BY2E332J	
Rm11, 12	Insulated Carbon Film	1kΩ	±5%	1/4W	PD14BY2E102J	
Rm13, 14	Insulated Carbon Film	120kΩ	±5%	1/4W	PD14BY2E124K	
	TRANSISTOR/POTENTIOMETER/PC BOARD					
Qm1 ~ 4	2SC693U (F)					
VRm1	10kΩ (B) SEPARATION CONTROL				R10-54	
—	PC Board				S23-123	

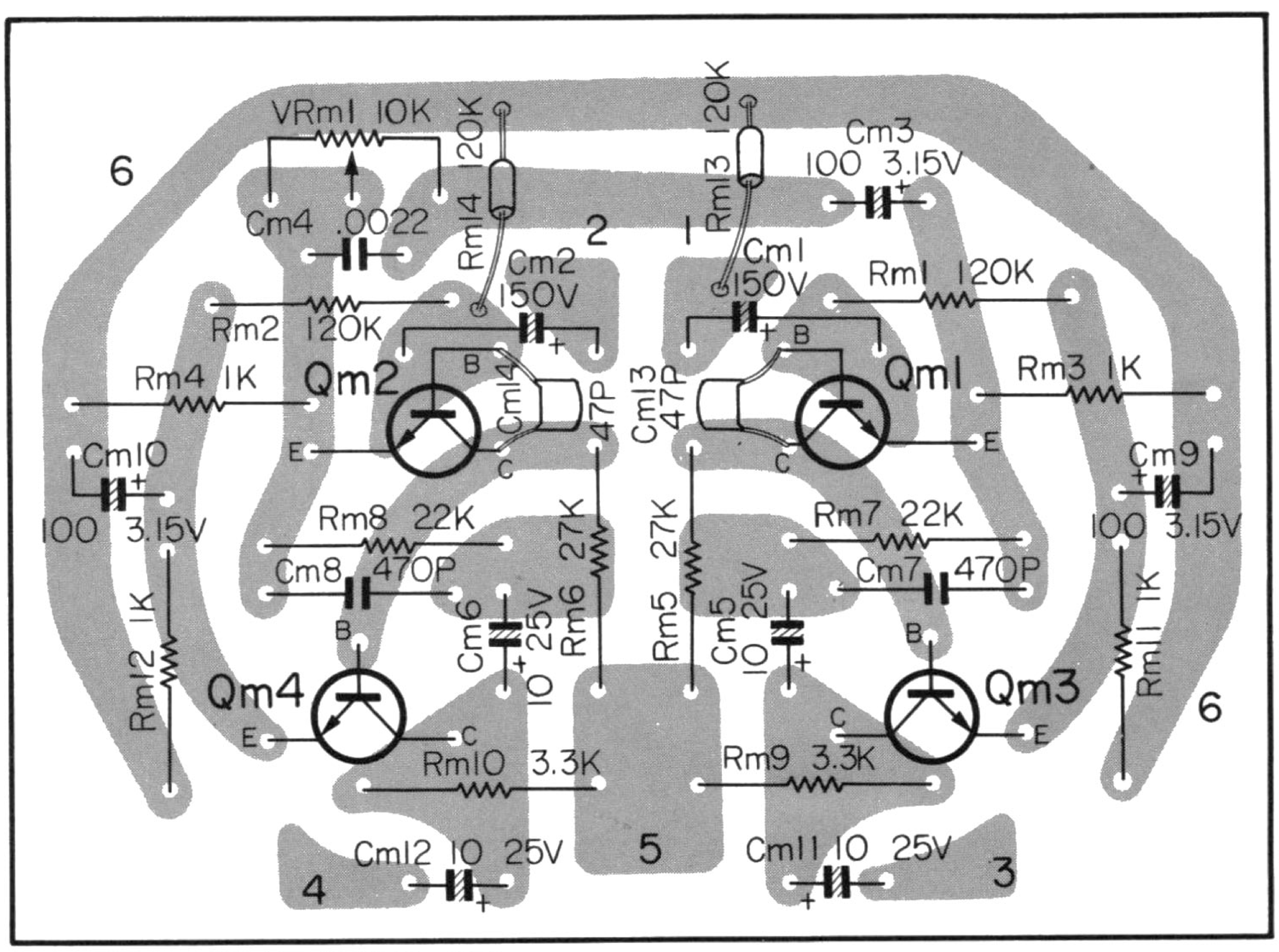
SCHEMATIC DIAGRAM

BOTTOM VIEW OF TRANSISTORS

2SC693



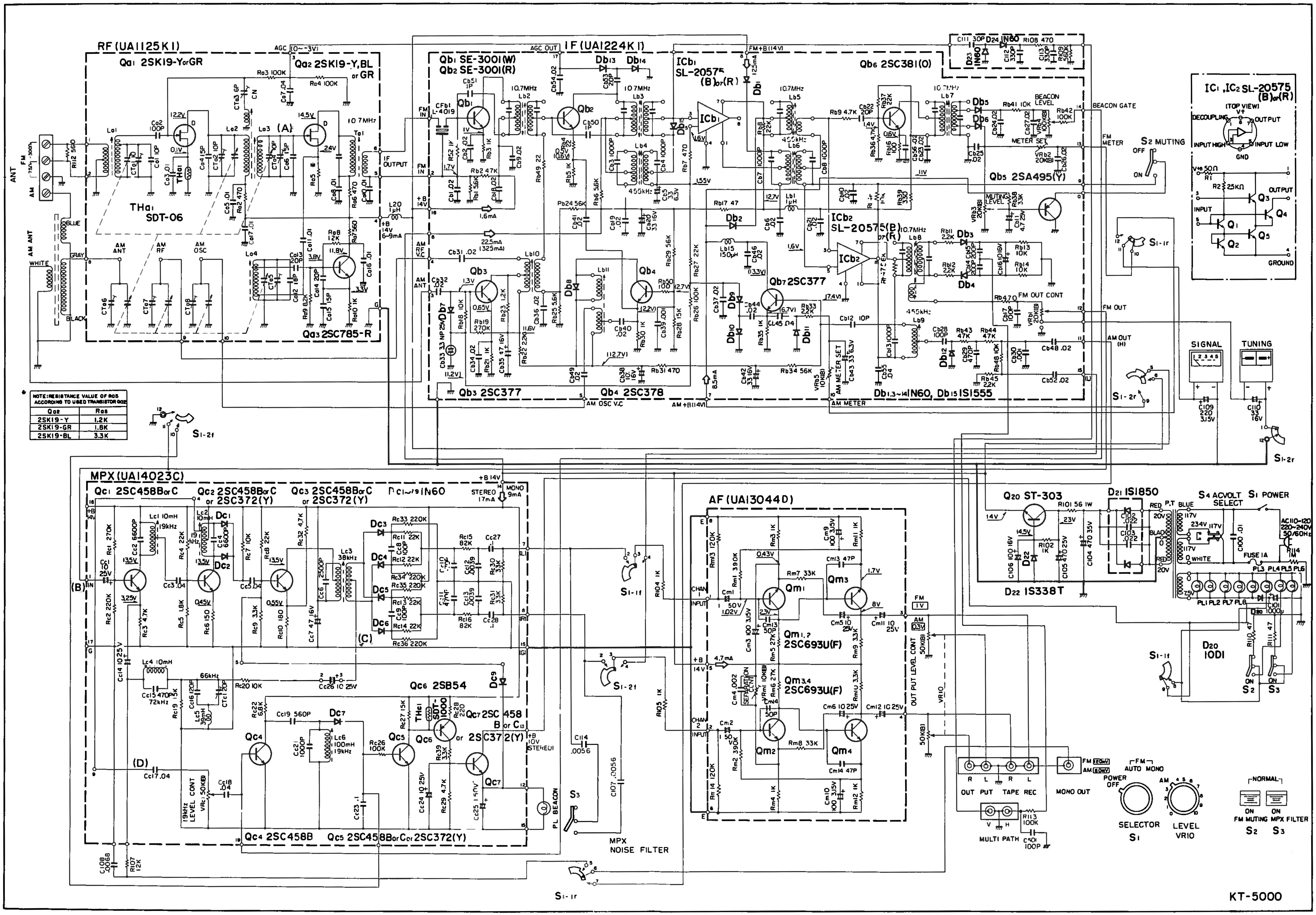
SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Qm1~4 2SC693u(F)

FROM THE SERIAL NO. 210301, KT-5000 IS CHANGED THE PREVIOUS UNIT FOR THIS.
FROM THE SERIAL NO. 220401, KT-3500 IS CHANGED THE PREVIOUS UNIT FOR THIS.

SCHEMATIC DIAGRAM



Qa2	Ra8
2SK19-Y	1.2K
2SK19-GR	1.8K
2SK19-BL	3.3K

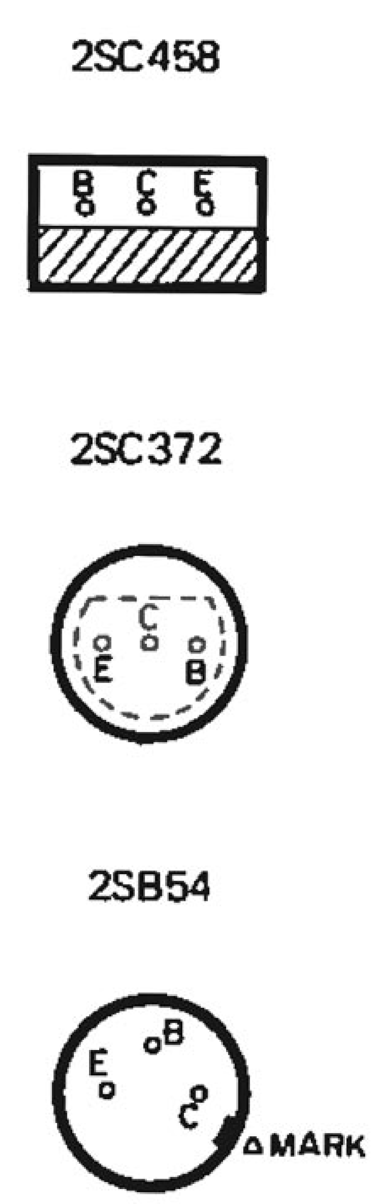
NOTE: RESISTANCE VALUE OF Ra8 ACCORDING TO USED TRANSISTOR Qa2

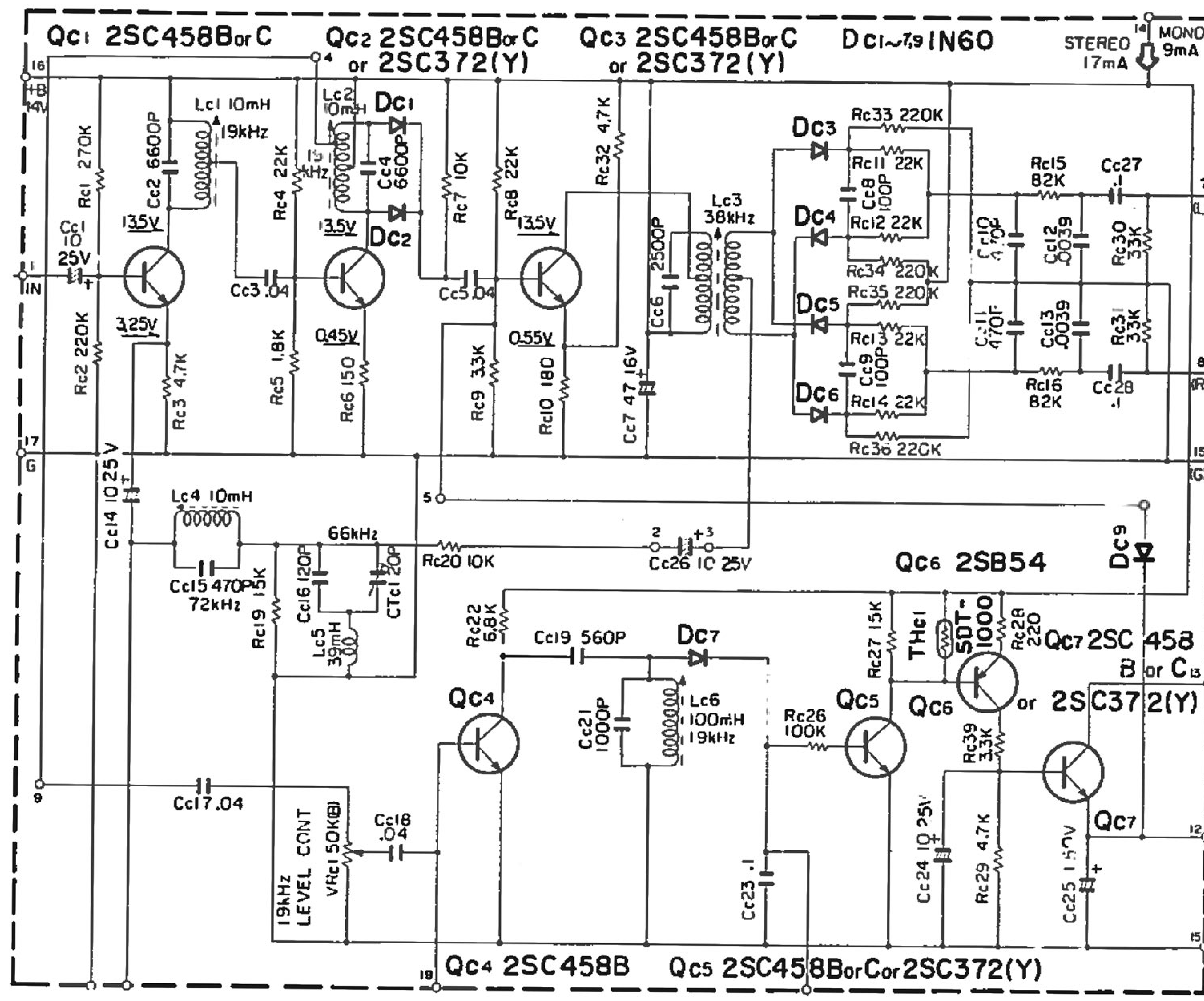
PARTS DESCRIPTION LIST

Symbol No.	Description	Part No.	Remarks
	CAPACITOR		
Cc1	Electrolytic Tubular 10μF 25WV	CE04W1E100	
Cc2	Polystyrene Film 6600pF ±5%	CQ08S2B662J	
Cc3	Ceramic 0.04μF +80%, −20%	CK94YG1E403Z	
Cc4	Polystyrene Film 6600pF ±5%	CQ08S2B662J	
Cc5	Ceramic 0.04μF +80%, −20%	CK94YG1E403Z	
Cc6	Polystyrene Film 2500pF ±5%	CQ08S2B252J	
Cc7	Electrolytic Tubular 47μF 16WV	CE04W1C470	
Cc8, 9	Ceramic 100pF ±10%	CC94SL1H101K	
Cc10, 11	Mylar 470pF ±10%	CK94YX1H471K	
Cc12, 13	Ceramic 0.0039μF ±5%	CQ93M1H392J	
Cc14	Electrolytic Tubular 10μF 25WV	CE04W1E100	
Cc15	Polystyrene Film 470pF ±5%	CQ08S2B471J	
Cc16	Polystyrene Film 120pF ±5%	CQ08S2B121J	
Cc17, 18	Ceramic 0.04μF ±80%, −20%	CK94YG1E403Z	
Cc19	Ceramic 560pF ±20%	CK94YY2H561M	
Cc21	Polystyrene Film 1000pF ±5%	CQ08S2B102J	
Cc23	Mylar 0.1μF ±20%	CQ93M1H104M	
Cc24	Electrolytic Tubular 10μF 25WV	CE04W1E100	
Cc25	Electrolytic Tubular 1μF 50WV	CE04W1H010	
Cc26	Electrolytic Tubular 10μF 25WV	CE04W1E100	
Cc27, 28	Mylar 0.1μF ±10%	CQ93M1H104K	
CTc1	Trimmer 20pF	C4046	
	RESISTOR		
Rc1	Fixed Carbon Composition 270kΩ ±10% 1/2W	RC05GF2H274K	
Rc2	Fixed Carbon Composition 220kΩ ±10% 1/2W	RC05GF2H224K	
Rc3	Fixed Carbon Composition 4.7kΩ ±10% 1/2W	RC05GF2H472K	
Rc4	Fixed Carbon Composition 22kΩ ±10% 1/2W	RC05GF2H223K	
Rc5	Fixed Carbon Composition 1.8kΩ ±10% 1/2W	RC05GF2H182K	
Rc6	Fixed Carbon Composition 150Ω ±10% 1/2W	RC05GF2H151K	
Rc7	Fixed Carbon Composition 10kΩ ±10% 1/2W	RC05GF2H103K	
Rc8	Fixed Carbon Composition 22kΩ ±10% 1/2W	RC05GF2H223K	
Rc9	Fixed Carbon Composition 3.3kΩ ±10% 1/2W	RC05GF2H332K	
Rc10	Fixed Carbon Composition 180Ω ±10% 1/2W	RC05GF2H181K	
Rc11～14	Insulated Carbon Film 22kΩ ±5% 1/4W	PD14BY2E223J	
Rc15, 16	Insulated Carbon Film 82kΩ ±5% 1/4W	PD14RY2E823J	
Rc19	Fixed Carbon Composition 15kΩ ±10% 1/2W	RC05GF2H153K	
Rc20	Fixed Carbon Composition 10kΩ ±10% 1/2W	RC05GF2H103K	
Rc22	Fixed Carbon Composition 6.8kΩ ±10% 1/2W	RC05GF2H682K	
Rc26	Fixed Carbon Composition 100kΩ ±10% 1/2W	RC05GF2H104K	
Rc27	Fixed Carbon Composition 15kΩ ±10% 1/2W	RC05GF2H153K	
Rc28	Fixed Carbon Composition 220Ω ±10% 1/2W	RC05GF2H221K	
Rc29	Fixed Carbon Composition 4.7kΩ ±10% 1/2W	RC05GF2H472K	
Rc30, 31	Insulated Carbon Film 33kΩ ±5% 1/4W	PD14BY2E333J	
Rc32	Insulated Carbon Film 4.7kΩ ±5% 1/4W	PD14BY2E472J	
Rc33～36	Insulated Carbon Film 220kΩ ±5% 1/4W	PD14BY2E224J	
Rc39	Insulated Carbon Film 3.3kΩ ±5% 1/2W	PD14CY2E332K	
	POTENTIOMETER/PC BOARD		
VRc1	50kΩ (B)	R10-56	
–	PC Board	S23-113	
	COIL		
Lc1	19kHz Tuning Coil	L17-04	
Lc2	19kHz Tuning Coil	L17-05	
Lc3	38kHz Tuning Coil	L17-43	
Lc4	Filter Coil	L17-44	
Lc5	Ferri Inductor	L33-0124-05	
Lc6	19kHz Tuning Coil	L17-23	
	TRANSISTOR/DIODE/THERMISTOR		
Qc1	2SC458 (B) or (C)		
Qc2, 3	2SC372 (Y) or 2SC458 (B) or (C)		
Qc4	2SC458 (B)		
Qc5	2SC372 (Y) or 2SC458 (B) or (C)		
Qc6	2SB54		
Qc7	2SC372 (Y) or 2SC458 (B) or (C)		
Dc1～8	1N60		
Dc9	1N60 or 2SD46		
THc1	SDT-1000		

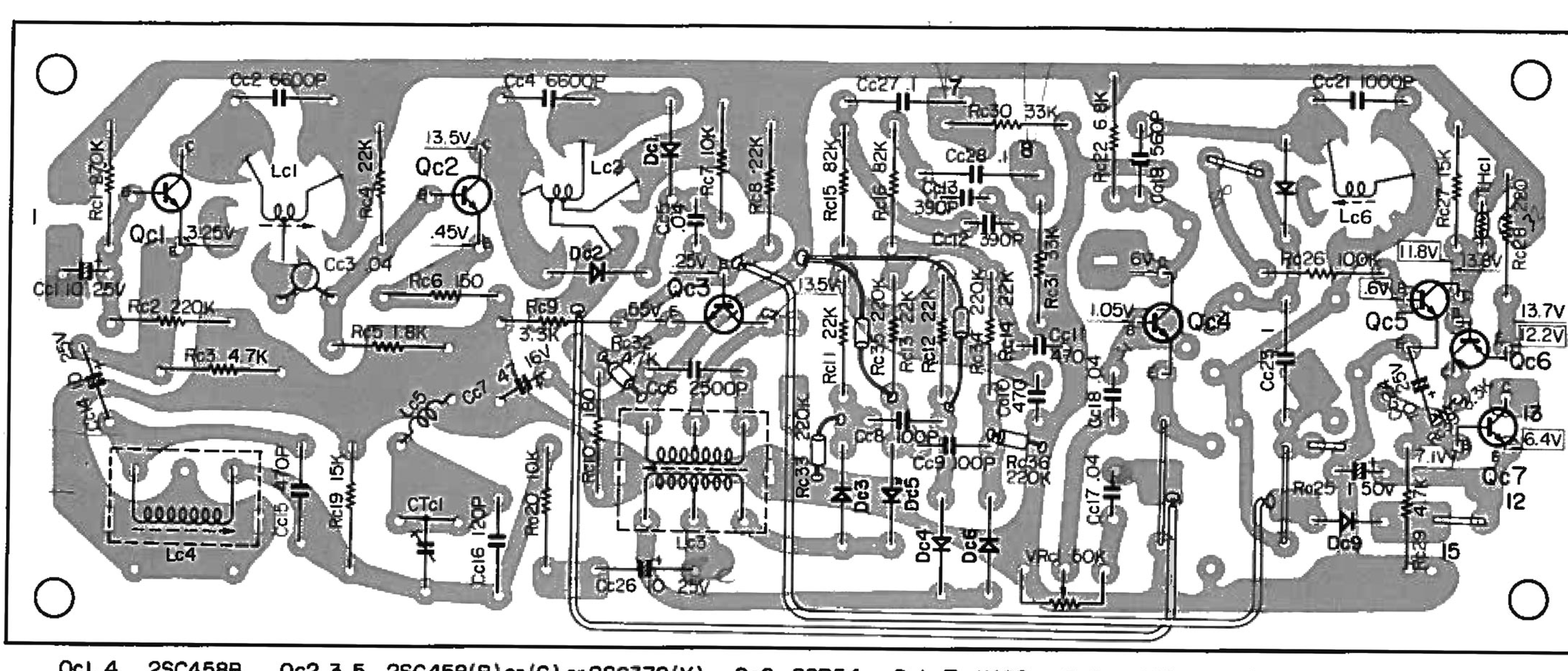
SCHEMATIC DIAGRAM

BOTTOM VIEW OF TRANSISTORS





SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Qc1,4 2SC458B, Qc2,3,5 2SC458(B) or (C) or 2SC372(Y), Qc6 2SB54, Dc1~7 IN60, Dc9 IN60 or SD46, THc1 SDT-1000

PARTS DESCRIPTION LIST

Symbol No.	Description	Part No.	Remarks
	CAPACITORS		
Cb1, 2	Ceramic 0.02μF +80% −20%	CK94YG1E203Z	
Cb3, 4	Polystyrene Film 1000pF ±10%	CQ08S1E102K03	
Cb5	Electrolytic Tubular 33μF 6.3WV	CE04W1J330	
Cb6	Ceramic 0.02μF +80% −20%	CK94YG1E203Z	
Cb7, 8	Polystyrene Film 1000pF ±10%	CQ08S1E102K03	
Cb9, 10	Ceramic 0.02μF +80% −20%	CK94YG1E203Z	
Cb11	Electrolytic Tubular 4.7μF 25WV	CE04W1E4R7	
Cb12	Ceramic 10pF ±0.5pF	CC94SL1H100D	
Cb13	Polystyrene Film 1000pF ±10%	CQ08S1E102K03	
Cb14, 15	Ceramic 200pF ±10%	CC94SL1H201K	
Cb16	Electrolytic Tubular 10μF 16WV	CE04W1C100	
Cb17	Ceramic 100pF ±10%	CC94SL1H101K	
Cb18, 19	Ceramic 0.02μF +80% −20%	CK94YG1E203Z	
Cb20	Electrolytic Tubular 33μF 16WV	CE04W1C330	
Cb21	Ceramic 0.02μF +80% −20%	CK94YG1E203Z	
Cb22	Ceramic 20pF ±10%	CC94SL1H200K	
Cb23~27	Ceramic 0.02μF +80% −20%	CK94YG1E203Z	
Cb28	Ceramic 100pF ±10%	CC94SL1H101K	
Cb29	Ceramic 470pF ±20%	CK94YY2E471M	
Cb30	Ceramic 0.001μF ±20%	CK94YY2E102M	
Cb31, 32	Ceramic 0.02μF +80% −20%	CK94YG1E203Z	
Cb33	Electrolytic Tubular 3.3μF 25WV	CE04W1E3R3NP	
Cb34	Ceramic 0.02μF +80% −20%	CK94YG1E203Z	
Cb35	Electrolytic Tubular 47μF 16WV	CE04W1C470	
Cb36, 37	Ceramic 0.02μF +80% −20%	CK94YG1E203Z	
Cb38	Electrolytic Tubular 10μF 16WV	CE04W1C100	
Cb39	Ceramic 0.001μF +80% −20%	CK94YY1E102Z	
Cb40, 41	Ceramic 0.02μF +80% −20%	CK94YG1E203Z	
Cb42	Electrolytic Tubular 33μF 16WV	CE04W1C330	
Cb43	Electrolytic Tubular 33μF 6.3WV	CE04W1J330	
Cb44	Ceramic 0.02μF +80% −20%	CK94YG1E203Z	
Cb45	Ceramic 0.04μF +80% −20%	CK94YG1E403Z	
Cb46	Ceramic 0.02μF +80% −20%	CK94YG1E103Z	
Cb48, 49	Ceramic 0.02μF +80% −20%	CK94YG1E103Z	
Cb50, 51	Ceramic 1pF ±0.5pF	CC94SL1H010D	
Cb52	Ceramic 0.02μF +80% −20%	CK94YG1E203Z	
Cb53	Ceramic 20pF ±10%	CC94SL1H200K	
Cb54	Ceramic 0.02μF +80% −20%	CK94YG1E203Z	
Cb55	Ceramic 0.04μF +80% −20%	CK94YG1E403Z	
Cb56	Ceramic 0.02μF +80% −20%	CK94YG1E203Z	
	RESISTORS		
Rb1	Insulated Carbon Film 5.6kΩ ±5% or ±10% 1/8W	PD14BY2B562J	
Rb2	Insulated Carbon Film 47kΩ ±5% or ±10% 1/8W	PD14BY2B473J	
Rb3	Insulated Carbon Film 1kΩ ±5% or ±10% 1/8W	PD14CY2B102J	
Rb4	Insulated Carbon Film 22Ω ±5% or ±10% 1/8W	PD14CY2B220J	
Rb5	Insulated Carbon Film 1kΩ ±5% or ±10% 1/8W	PD14BY2B102J	
Rb6	Insulated Carbon Film 5.6kΩ ±5% or ±10% 1/8W	PD14CY2B562J	
Rb7	Insulated Carbon Film 470Ω ±5% or ±10% 1/8W	PD14BY2B471J	
Rb8	Insulated Carbon Film 47kΩ ±5% or ±10% 1/8W	PD14BY2B473J	
Rb9	Insulated Carbon Film 4.7kΩ ±5% or ±10% 1/8W	PD14BY2E472K	
Rb11, 12	Insulated Carbon Film 2.2kΩ ±5% or ±10% 1/8W	PD14BY2B222J	
Rb13, 14	Insulated Carbon Film 10kΩ ±5% or ±10% 1/8W	PD14BY2B103J	
Rb15	Insulated Carbon Film 470Ω ±5% or ±10% 1/8W	PD14BY2B471J	
Rb16	Insulated Carbon Film 100Ω ±5% or ±10% 1/8W	PD14BY2B101J	
Rb17	Insulated Carbon Film 47Ω ±5% or ±10% 1/8W	PD14BY2B470J	
Rb18	Insulated Carbon Film 10kΩ ±5% or ±10% 1/8W	PD14CY2B103J	
Rb19	Insulated Carbon Film 270kΩ ±5% or ±10% 1/8W	PD14CY2B274J	
Rb21	Insulated Carbon Film 1kΩ ±5% or ±10% 1/8W	PD14CY2B102J	
Rb22	Insulated Carbon Film 2.2kΩ ±5% or ±10% 1/8W	PD14CY2B222J	
Rb23	Insulated Carbon Film 1.2kΩ ±5% or ±10% 1/8W	PD14BY2B122J	
Rb24	Insulated Carbon Film 56kΩ ±5% or ±10% 1/8W	PD14CY2B563J	
Rb25	Insulated Carbon Film 5.6kΩ ±5% or ±10% 1/8W	PD14CY2B562J	
Rb26	Insulated Carbon Film 100kΩ ±5% or ±10% 1/8W	PD14BY2B104J	
Rb27	Insulated Carbon Film 22kΩ ±5% or ±10% 1/8W	PD14BY2B223J	
Rb28	Insulated Carbon Film 15kΩ ±5% or ±10% 1/8W	PD14BY2B153J	
Rb29	Insulated Carbon Film 56kΩ ±5% or ±10% 1/8W	PD14BY2B563J	
Rb30	Insulated Carbon Film 1kΩ ±5% or ±10% 1/8W	PD14BY2B102J	
Rb31	Insulated Carbon Film 470Ω ±5% or ±10% 1/8W	PD14BY2B471J	
Rb33	Insulated Carbon Film 2.2kΩ ±5% or ±10% 1/8W	PD14BY2B222J	

Symbol No.	Description	Part No.	Remarks
Rb34	Insulated Carbon Film 56kΩ ±5% or ±10% 1/8W	PD14BY2B563J	
Rb35	Insulated Carbon Film 1kΩ ±5% or ±10% 1/8W	PD14BY2B102J	
Rb36	Insulated Carbon Film 4.7kΩ ±5% or ±10% 1/8W	PD14BY2B472J	
Rb37	Insulated Carbon Film 22kΩ ±5% or ±10% 1/8W	PD14BY2B223J	
Rb38	Insulated Carbon Film 33kΩ ±5% or ±10% 1/8W	PD14BY2B333J	
Rb39	Insulated Carbon Film 330Ω ±5% or ±10% 1/8W	PD14BY2E331K	
Rb41	Insulated Carbon Film 10kΩ ±5% or ±10% 1/8W	PD14BY2B103J	
Rb42	Insulated Carbon Film 100kΩ ±5% or ±10% 1/8W	PD14BY2B104J	
Rb43, 44	Insulated Carbon Film 47kΩ ±5% or ±10% 1/8W	PD14BY2B473J	
Rb45	Insulated Carbon Film 27kΩ ±5% or ±10% 1/8W	PD14BY2B272J	
Rb46	Insulated Carbon Film 10kΩ ±5% or ±10% 1/8W	PD14CY2B103J	
Rb47	Insulated Carbon Film 5.6kΩ ±5% or ±10% 1/8W	PD14CY2B562J	
Rb48	Insulated Carbon Film 10kΩ ±5% or ±10% 1/8W	PD14CY2B103J	
Rb49	Insulated Carbon Film 22Ω ±5% or ±10% 1/8W	PD14CY2B220J	
Rb50	Insulated Carbon Film 100Ω ±5% or ±10% 1/8W	PD14BY2B101J	
Rb52	Insulated Carbon Film 1kΩ ±5% or ±10% 1/8W	PD14BY2B102J	
	IF TRANSFORMER/COIL		
Lb1	Choke Coil	L20-010C	
Lb2	FM IFT	L02-104	
Lb3	FM IFT	L02-104	
Lb4	AM IFT	L01-88	
Lb5	AM IFT	L02-109	
Lb6	AM IFT	L01-88	
Lb7	AM IFT (MUTING)	L30-0194-05	
Lb8	FM IFT (DICS)	L02-64	
Lb9	AM IFT	L01-89	
Lb10	AM RF Coil	L12-61	
Lb11	AM OSC Coil	L11-70	
Lb15	Ferri-Inductor (FL5H 151K)	L33-0098-05	
CFb1	Ceramic Filter	L4019	
	TRANSISTOR/IC/DIODE		
Qb1	SE-3001-(W)		
Qb2	SE-3001-(R)		
Qb3	2SC377		
Qb4	2SC378		
Qb5	2SA495 (Y)		
Qb6	2SC381 (O)		
Qb7	2SC377		
ICb1	SC-20575 (B)		
ICb2	SL-20575 (R)		
Db1~14	1N60		
Db15	1S1555		
	POTENTIOMETER		
VRb1	IF OUT 20kΩ (B)	R10-75	
VRb2	FM METER 20kΩ (B)	R10-115	
VRb3	MUTING 20kΩ (B)	R10-75	
VRb4	FM METER 100kΩ (B)	R10-91	
VRb5	AM METER 10kΩ (B)	R10-114	
	MISCELLANEOUS		
—	P.C. Board	S23-327	
—	Shielding Board	F10-0002-04	

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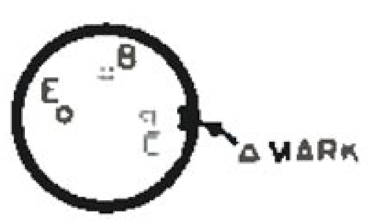
KENWOOD IF (UA1224K1) SECTION

(KT-5000)

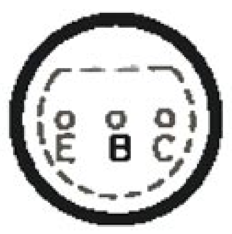
SCHEMATIC DIAGRAM

BOTTOM VIEW OF TRANSISTORS

SE-3001

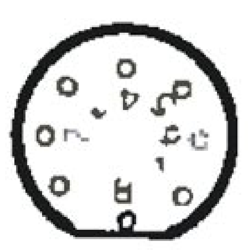


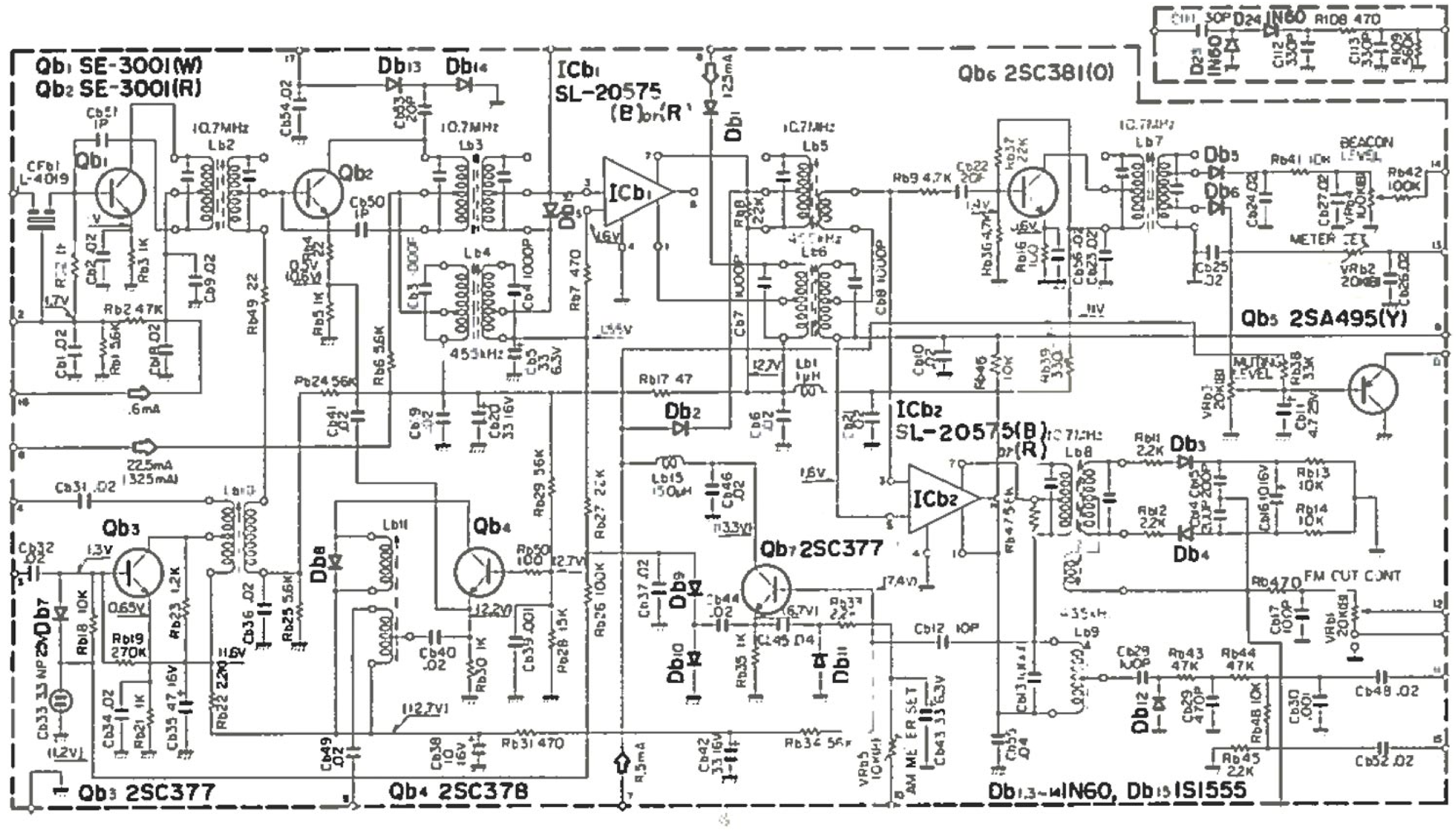
2SA495



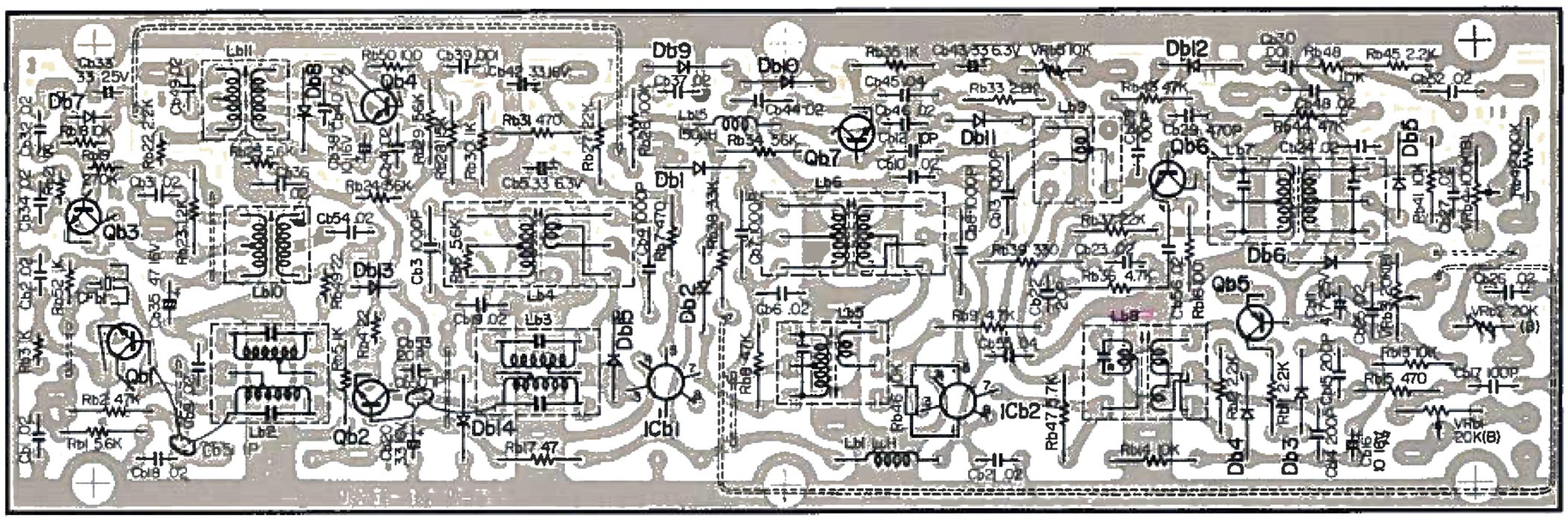
2SC381
2SC377
2SC378

SL-20575





SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Qb1 SE3001(W), Qb2 SE3001(R), Qb3 2SC377, Qb4 2SC378, Qb5 2SA495(Y), Qb6 2SC381(O), Qb7 2SC377, ICb1 SL-20575(B), ICb2 SL-20575(R), Db1~14 IN60, Db15 IS1555

—NOTES—

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- 72-02 51ST AVENUE, WOODSIDE. N.Y. 11377

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