

## ADJUSTMENT

### FM IF ADJUSTMENT

#### ● Connection Diagram

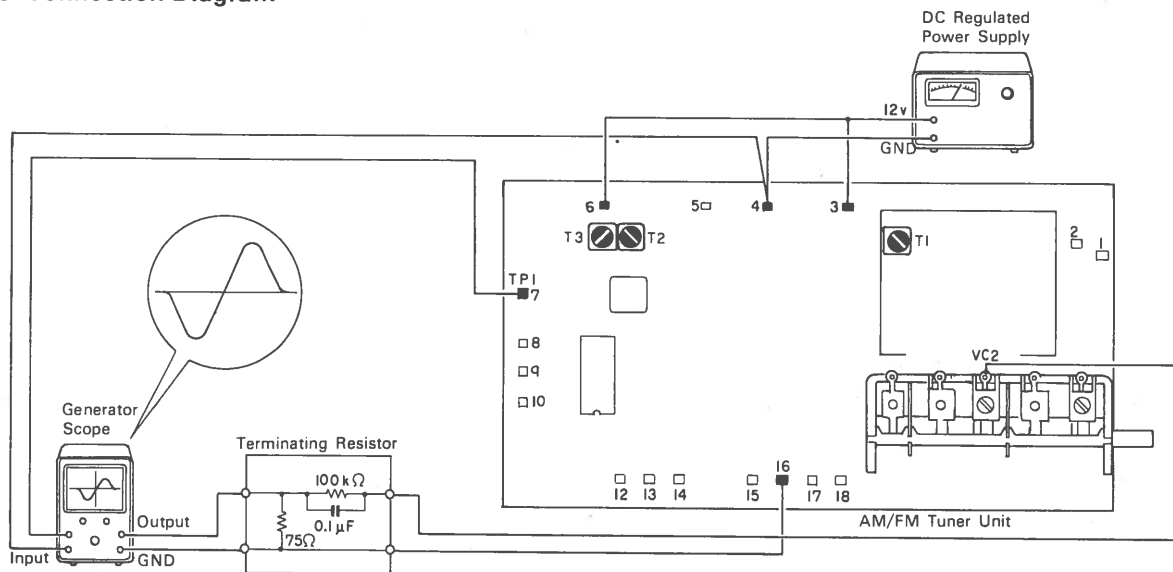


Fig. 5

#### ● To Adjust

1. Feed a signal of 40 to 60 dB from the generator scope to the RF circuit variable capacitor "hot" side (VC2) or a signal of about 100 dB may be applied directly to the antenna terminals.
2. Tune the core (white) of IFT T1 to obtain maximum "S" wave on the generator scope.
3. Adjust the cores of T2 (gray) and T3 (blue) so that maximum amplitude and optimum linearity are obtained.

4. When increasing the generator scope output, check to make sure the waveform does not collapse. If a significant tendency to collapse is noted, repeat the adjustments of 2 and 3.

#### NOTE:

- 1) If other waves appear, in addition to the S curve, adjust the variable capacitor slightly to remove spurious traces.
- 2) It is not essential to match the 10.7 MHz marker to the S curve center point.

## FM TRACKING ADJUSTMENT

### ● Connection Diagram

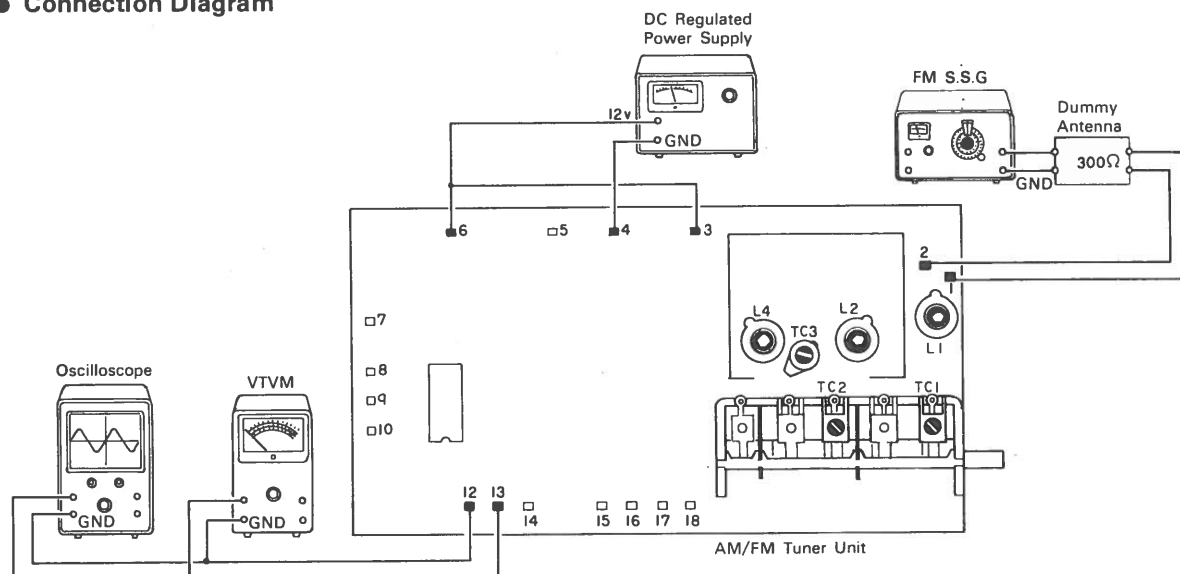


Fig. 6

### ● To Adjust

1. Set the variable capacitor to maximum capacity position and set the signal generator at 87 MHz, 30% modulation at 400 Hz, with a signal level of 20 to 40 dB.
2. Adjust L4 to obtain maximum low frequency output from the tuner.
3. Set the variable capacitor to minimum capacity position, and apply a 109 MHz signal from the signal generator. Tune TC3 for maximum high frequency tuner output.
4. Repeat procedures 1 through 3 to establish the band width of 87 to 109 MHz.
5. Set signal generator frequency at 90 MHz and tune the variable capacitor for maximum reception. Peak the output by adjustment of L1 and L2.
6. Set signal generator frequency at 106 MHz and tune to the signal with the variable capacitor. Peak the output by adjustment of TC1 and TC2.
7. Repeat procedures 5 and 6 for optimum tracking at both ends.

S.S.G frequency	Variable capacitor position	Adjustment point	Circuit section
87 MHz	Maximum capacity	L4	OSC
109 MHz	Minimum capacity	TC3	OSC
90 MHz	Tuned position	L1 L2	ANT RF
106 MHz	Tuned position	TC1 TC2	ANT RF

## FM MPX ADJUSTMENT

### ● Connection Diagram

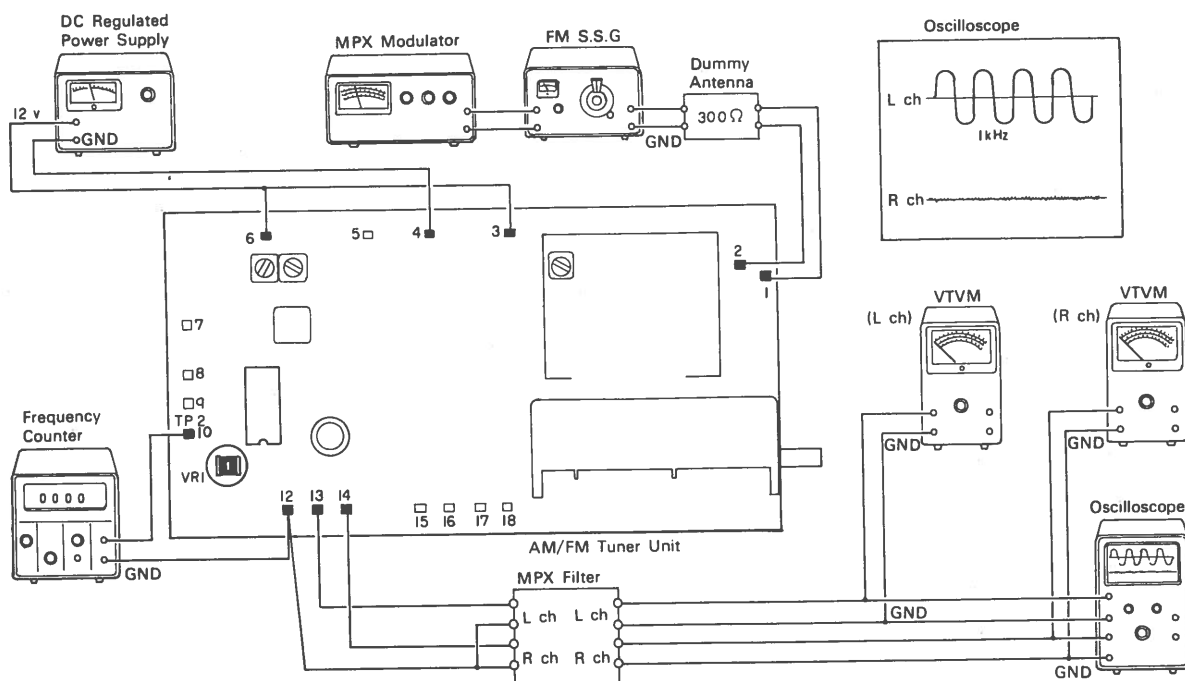


Fig. 7

### ● To Adjust

1. Apply a 98 MHz non-modulation signal with an output level of 60 dB from the signal generator to adjust VR1 so that the frequency counter indicates 19 kHz  $\pm$  20 Hz.
2. Select signal generator modulation as follows:  
Modulation frequency:  
1 kHz  
Percentage of modulation:  
Pilot 10% (7.5 kHz Dev.)  
Main 100% (67.5 kHz Dev.)

3. Tune to a 98 MHz signal.
4. Set the signal generator level to 60 dB and select L-side modulation. Make sure separation is optimum (R-side output at minimum). Similarly ascertain L-side output.

#### NOTE:

Alignment can be made without an MPX filter, however, adjustment will be difficult owing to the effects of the 19 kHz and 38 kHz carrier leak.

## AM IF ADJUSTMENT

### ● Connection Diagram

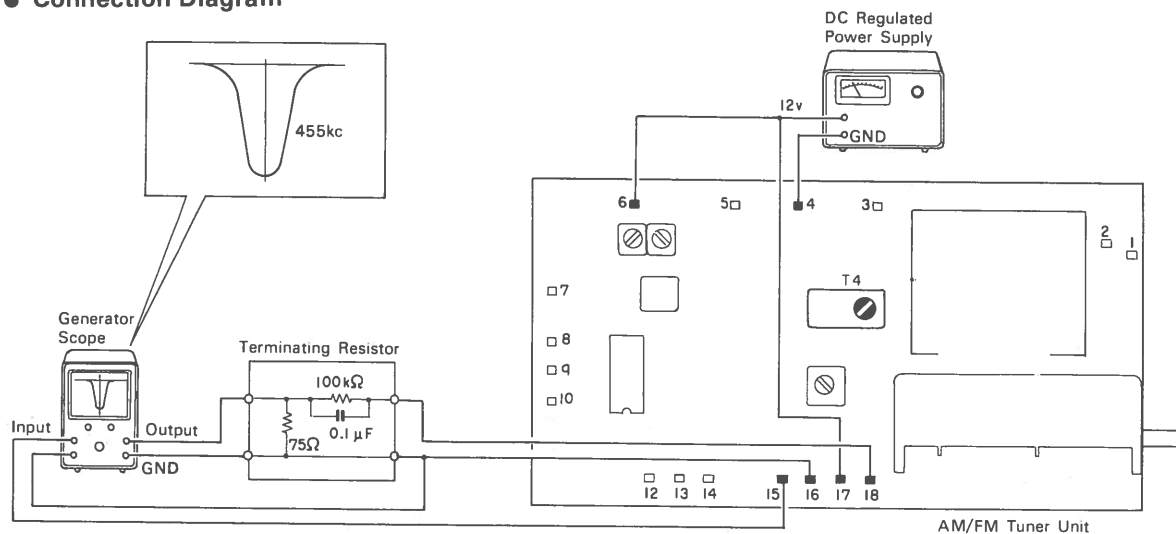


Fig. 8

### ● To Adjust

1. Apply a 455 kHz signal with an output level of 40 ~ 60 dB from the generator scope to adjust T4 (yellow) so

that maximum amplitude and symmetrical waveform are obtained on the generator scope.

## AM TRACKING ADJUSTMENT

### ● Connection Diagram

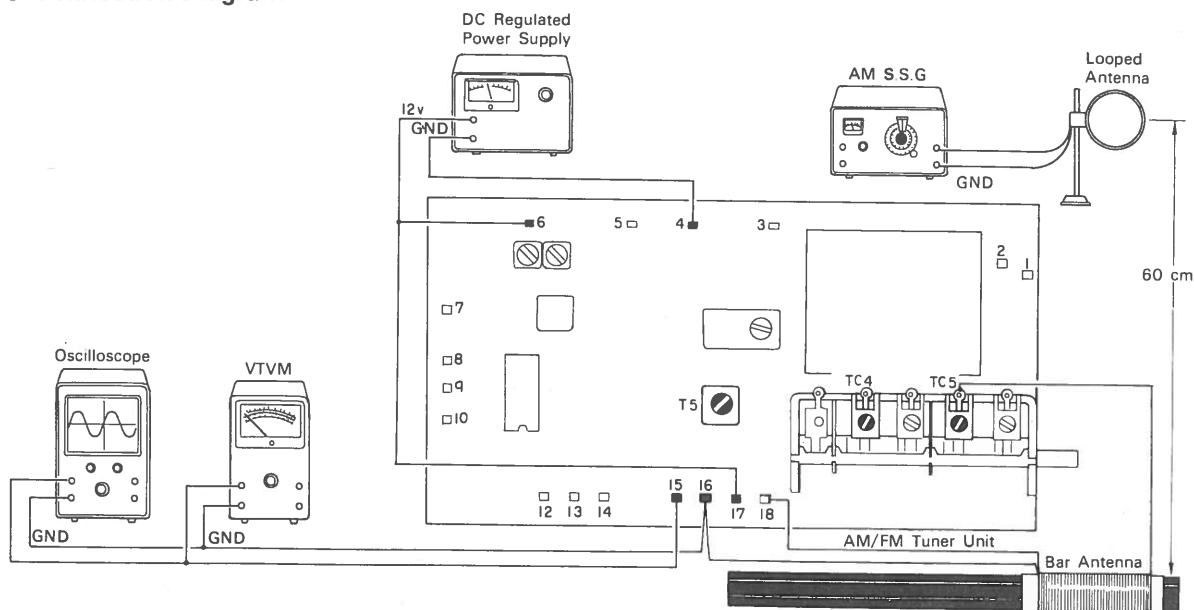


Fig. 9

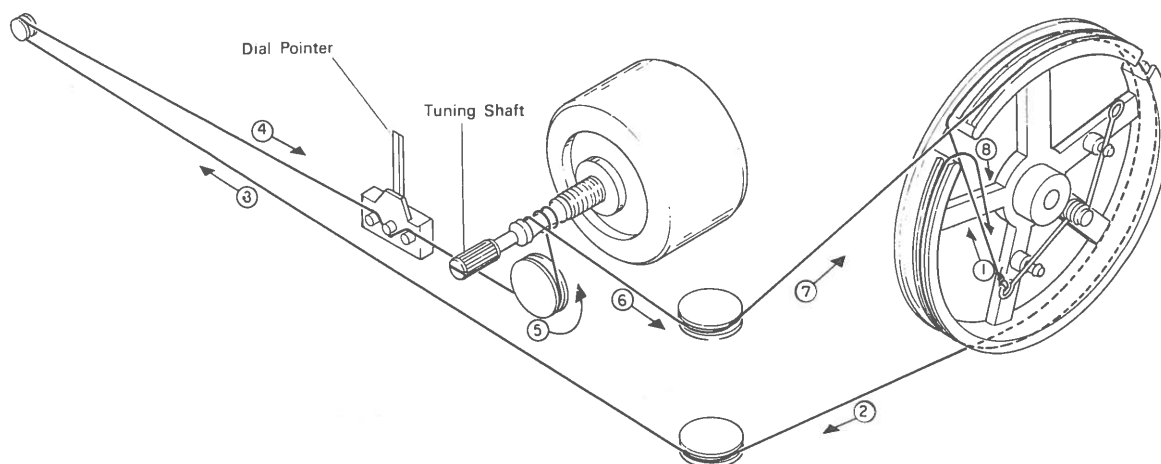
● **To Adjust**

1. Set the variable capacitor at maximum capacity and apply a 510 kHz signal from the signal generator (30% modulation at 400 Hz). Adjust the oscillator coil T5 (red) for maximum tuner output.
2. Set the variable capacitor at minimum capacitance and apply a signal of 1,700 kHz. Adjust trimmer capacitor TC4 for maximum tuner output.
3. Repeat procedures 1 and 2 to establish the band width of 510 to 1,700 kHz.
4. Apply a signal of 600 kHz and tune the variable capacitor for maximum reception; peak the output by adjusting the position of the bar antenna coil.
5. Apply a signal of 1,400 kHz and tune the variable capacitor for maximum reception; peak the output by adjustment of the trimmer capacitor TC5.
6. Repeat procedures 4 and 5 for optimum tracking at both ends.

S.S.G frequency	Variable capacitor position	Adjustment point	Circuit section
510 kHz	Maximum capacity	T5	OSC
1,700 kHz	Minimum capacity	TC4	OSC
600 kHz	Tuned position	Bar antenna	ANT
1,400 kHz	Tuned position	TC5	ANT

## DIAL STRINGING

**NOTE:** Before dial stringing, set the tuning shaft fully clockwise (high frequency).



**Fig. 10**

**NOTICE:** Of the descriptive symbols of the resistor and capacitor, the encircled alphabetic letter denotes the allowable error.

Example: RD1/4VS100 Ⓟ C:  $\pm 0.25\text{pF}$  F:  $\pm 1\text{pF}$  J:  $\pm 5\%$  M:  $\pm 20\%$  Z:  $\pm \frac{80}{20}\%$   
CEA100 Ⓟ 25 D:  $\pm 0.5\text{pF}$  G:  $\pm 2\%$  K:  $\pm 10\%$  X:  $\pm \frac{40}{20}\%$  P:  $\pm \frac{100}{10}\%$

## MISCELLANEOUS

**NOTICE:** For Q13 through Q20, both L ch and R ch, use the transistors of the same rank.

Ref. Key	Parts No.	Description			
Q1	2SC732-GR, BL	Transistor			
Q2	2SC732-GR, BL	Transistor			
Q3	2SC732-GR, BL	Transistor			
Q4	2SC732-GR, BL	Transistor			
Q5	2SC732-GR, BL	Transistor			
Q6	2SC732-GR, BL	Transistor			
Q7	2SC732-GR, BL	Transistor			
Q8	2SC732-GR, BL	Transistor			
Q9	2SA733-P, Q, R	Transistor			
Q10	2SA733-P, Q, R	Transistor			
Q11	2SC1213A-B, C	Transistor			
Q12	2SC1213A-B, C	Transistor			
Q13	2SC1213A-B, C	Transistor			
Q14	2SC1213A-B, C	Transistor			
Q15	2SA673A-B, C	Transistor			
Q16	2SA673A-B, C	Transistor			
Q17	2SC1061-B, C	Transistor			
Q18	2SC1061-B, C	Transistor			
Q19	2SC1061-B, C	Transistor			
Q20	2SC1061-B, C	Transistor			
Q21	2SC732-GR, BL	Transistor			
Q22	2SC732-GR, BL	Transistor			
Q23	2SC1213A-B, C	Transistor			
Q24	2SC1061-B, C	Transistor			
Q25	2SC732-GR, BL	Transistor			
D1	STV-3H-O, Y	Varistor			
D2	STV-3H-O, Y	Varistor			
D3	1S1555	Diode			
D4	RD24EC	Diode			
D5	RD13EB	Diode			
D6	10DS-2	Diode			
S1	CSD-004	Slide Rotary Switch			
VR1	CCS-147 or	Variable Resistor	50k $\Omega$	(M, N)	
	CCS-131	Variable Resistor	50k $\Omega$	(M, N)	
VR2	CCS-146 or	Variable Resistor	50k $\Omega$	(B)	
VR2	CCS-130	Variable Resistor	50k $\Omega$	(B)	
VR3	CCS-148 or	Variable Resistor	50k $\Omega$	(A)	
	CCS-132	Variable Resistor	50k $\Omega$	(A)	
VR4	CCS-148 or	Variable Resistor	50k $\Omega$	(A)	
	CCS-132	Variable Resistor	50k $\Omega$	(A)	

Ref. Key	Parts No.	Description		
R99	RD1/4HS104J	Carbon Film Resistor	100k $\Omega$	1/4W
R100	RD1/4HS104J	Carbon Film Resistor	100k $\Omega$	1/4W
R101	RD1/4HS331J	Carbon Film Resistor	330 $\Omega$	1/4W
R102	RD1/4HS331J	Carbon Film Resistor	330 $\Omega$	1/4W
R103	RD1/4HS183J	Carbon Film Resistor	18k $\Omega$	1/4W
R104	RD1/4HS331J	Carbon Film Resistor	330 $\Omega$	1/4W
R105	RD1/4HS333J	Carbon Film Resistor	33k $\Omega$	1/4W
R106	RD1/4HS333J	Carbon Film Resistor	33k $\Omega$	1/4W
R107	RS2P181K	Metal Oxide Resistor	180 $\Omega$	2W
R108	RS2P101K	Metal Oxide Resistor	100 $\Omega$	2W
R109	RD1/4HS332J	Carbon Film Resistor	3.3k $\Omega$	1/4W
R110	RD1/4HS332J	Carbon Film Resistor	3.3k $\Omega$	1/4W
R111	RS1P101K	Metal Oxide Resistor	100 $\Omega$	1W

**CAPACITORS**

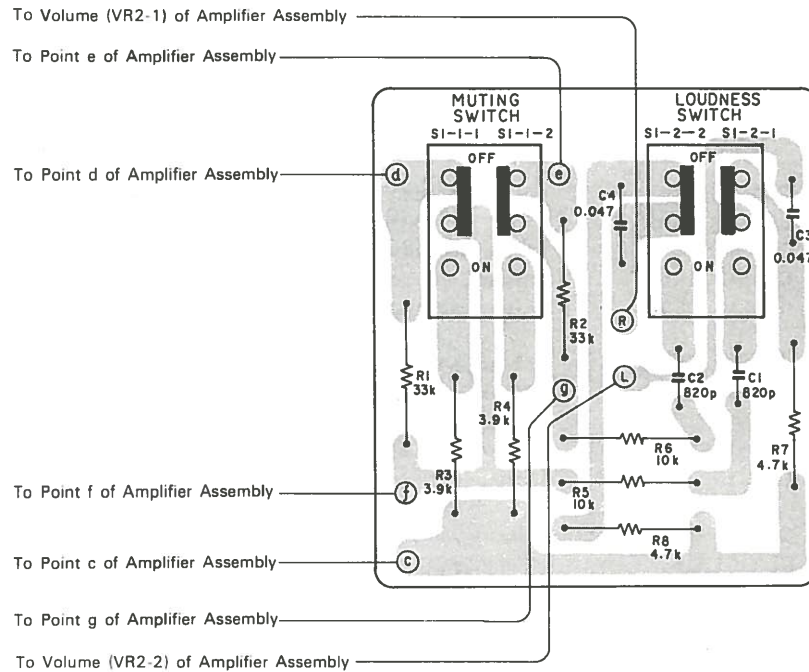
Ref. Key	Parts No.	Description		
C1	CEA2R2P50	Electrolytic Capacitor	2.2 $\mu$ F	50V
C2	CEA2R2P50	Electrolytic Capacitor	2.2 $\mu$ F	50V
C3	CKDYB101K50	Ceramic Capacitor	100pF	50V
C4	CKDYB101K50	Ceramic Capacitor	100pF	50V
C5	CCDSL330K50	Ceramic Capacitor	33pF	50V
C6	CCDSL330K50	Ceramic Capacitor	33pF	50V
C7	CQMA822K50	Mylar Capacitor	8200pF	50V
C8	CQMA822K50	Mylar Capacitor	8200pF	50V
C9	CEA100P16	Electrolytic Capacitor	10 $\mu$ F	16V
C10	CEA100P16	Electrolytic Capacitor	10 $\mu$ F	16V
C11	CQMA183K50	Mylar Capacitor	0.018 $\mu$ F	50V
C12	CQMA183K50	Mylar Capacitor	0.018 $\mu$ F	50V
C13	CEA010P50	Electrolytic Capacitor	1 $\mu$ F	50V
C14	CEA010P50	Electrolytic Capacitor	1 $\mu$ F	50V
C19	CEA010P50	Electrolytic Capacitor	1 $\mu$ F	50V
C20	CEA010P50	Electrolytic Capacitor	1 $\mu$ F	50V
C21	CKDYB101K50	Ceramic Capacitor	100pF	50V
C22	CKDYB101K50	Ceramic Capacitor	100pF	50V
C23	CCDSL330K50	Ceramic Capacitor	33pF	50V
C24	CCDSL330K50	Ceramic Capacitor	33pF	50V
C25	CCDSL330K50	Ceramic Capacitor	33pF	50V
C26	CCDSL330K50	Ceramic Capacitor	33pF	50V
C27	CEA100P16	Electrolytic Capacitor	10 $\mu$ F	16V
C28	CEA100P16	Electrolytic Capacitor	10 $\mu$ F	16V
C29	CEA100P25	Electrolytic Capacitor	10 $\mu$ F	25V

Ref. Key	Parts No.	Description		
C30	CEA100P25	Electrolytic Capacitor	10 $\mu$ F	25V
C31	CQMA823K50	Mylar Capacitor	0.082 $\mu$ F	50V
C32	CQMA823K50	Mylar Capacitor	0.082 $\mu$ F	50V
C33	CQMA334K50 or CSZAR33M35	Mylar Capacitor Solid Electrolytic Capacitor	0.33 $\mu$ F 0.33 $\mu$ F	50V 35V
C34	CQMA334K50 or CSZAR33M35	Mylar Capacitor Solid Electrolytic Capacitor	0.33 $\mu$ F 0.33 $\mu$ F	50V 35V
C35	CQMA332K50	Mylar Capacitor	3300pF	50V
C36	CQMA332K50	Mylar Capacitor	3300pF	50V
C37	CQMA223K50	Mylar Capacitor	0.022 $\mu$ F	50V
C38	CQMA223K50	Mylar Capacitor	0.022 $\mu$ F	50V
C39	CQMA102K50	Mylar Capacitor	0.001 $\mu$ F	50V
C40	CQMA102K50	Mylar Capacitor	0.001 $\mu$ F	50V
C41	CEA010P50	Electrolytic Capacitor	1 $\mu$ F	50V
C42	CEA010P50	Electrolytic Capacitor	1 $\mu$ F	50V
C43	CEA101P25	Electrolytic Capacitor	100 $\mu$ F	25V
C44	CEA101P25	Electrolytic Capacitor	100 $\mu$ F	25V
C45	CKDYB151K50	Ceramic Capacitor	150pF	50V
C46	CKDYB151K50	Ceramic Capacitor	150pF	50V
C47	CEA470P25	Electrolytic Capacitor	47 $\mu$ F	25V
C48	CEA470P25	Electrolytic Capacitor	47 $\mu$ F	25V
C49	CCDSL470K50	Ceramic Capacitor	47pF	50V
C50	CCDSL470K50	Ceramic Capacitor	47pF	50V
C51	CKDYB221K50	Ceramic Capacitor	220pF	50V
C52	CKDYB221K50	Ceramic Capacitor	220pF	50V
C53	CQMA473K50	Mylar Capacitor	0.047 $\mu$ F	50V
C54	CQMA473K50	Mylar Capacitor	0.047 $\mu$ F	50V
C55	CEA222P25	Electrolytic Capacitor	2200 $\mu$ F	25V
C56	CEA222P25	Electrolytic Capacitor	2200 $\mu$ F	25V
C57	CEA010P50	Electrolytic Capacitor	1 $\mu$ F	50V
C58	CEA010P50	Electrolytic Capacitor	1 $\mu$ F	50V
C59	CEA100P25	Electrolytic Capacitor	10 $\mu$ F	25V
C60	CEA100P25	Electrolytic Capacitor	10 $\mu$ F	25V
C61	CEA221P25	Electrolytic Capacitor	220 $\mu$ F	25V
C62	CEA221P25	Electrolytic Capacitor	220 $\mu$ F	25V
C63	CEA101P35	Electrolytic Capacitor	100 $\mu$ F	35V
C64	CEA101P25	Electrolytic Capacitor	100 $\mu$ F	25V
C65	CEA221P25	Electrolytic Capacitor	220 $\mu$ F	25V
C66	CEA471P16	Electrolytic Capacitor	470 $\mu$ F	16V
C67	CEA330P25	Electrolytic Capacitor	33 $\mu$ F	25V
C68	CEA330P25	Electrolytic Capacitor	33 $\mu$ F	25V
C69	CQMA473K50	Mylar Capacitor	0.047 $\mu$ F	50V
C70	CQMA473K50	Mylar Capacitor	0.047 $\mu$ F	50V
C71	CCH-025	Electrolytic Capacitor	3300 $\mu$ F	50V



## SWITCH UNIT

### ● Parts Connection



### ● Parts List

#### SWITCH

Ref. Key	Parts No.	Description
S1	CSG-053	Push Switch

#### RESISTORS

Ref. Key	Parts No.	Description		
R1	RD1/4HS333J	Carbon Film Resistor	33kΩ	1/4W
R2	RD1/4HS333J	Carbon Film Resistor	33kΩ	1/4W
R3	RD1/4HS392J	Carbon Film Resistor	3.9kΩ	1/4W
R4	RD1/4HS392J	Carbon Film Resistor	3.9kΩ	1/4W
R5	RD1/4HS103J	Carbon Film Resistor	10kΩ	1/4W
R6	RD1/4HS103J	Carbon Film Resistor	10kΩ	1/4W
R7	RD1/4HS472J	Carbon Film Resistor	4.7kΩ	1/4W
R8	RD1/4HS472J	Carbon Film Resistor	4.7kΩ	1/4W

#### CAPACITORS

Ref. Key	Parts No.	Description		
C1	CKDYB821K50	Ceramic Capacitor	820pF	50V
C2	CKDYB821K50	Ceramic Capacitor	820pF	50V
C3	CQMA473K50	Mylar Capacitor	0.047μF	50V
C4	CQMA473K50	Mylar Capacitor	0.047μF	50V

## AM/FM TUNER UNIT

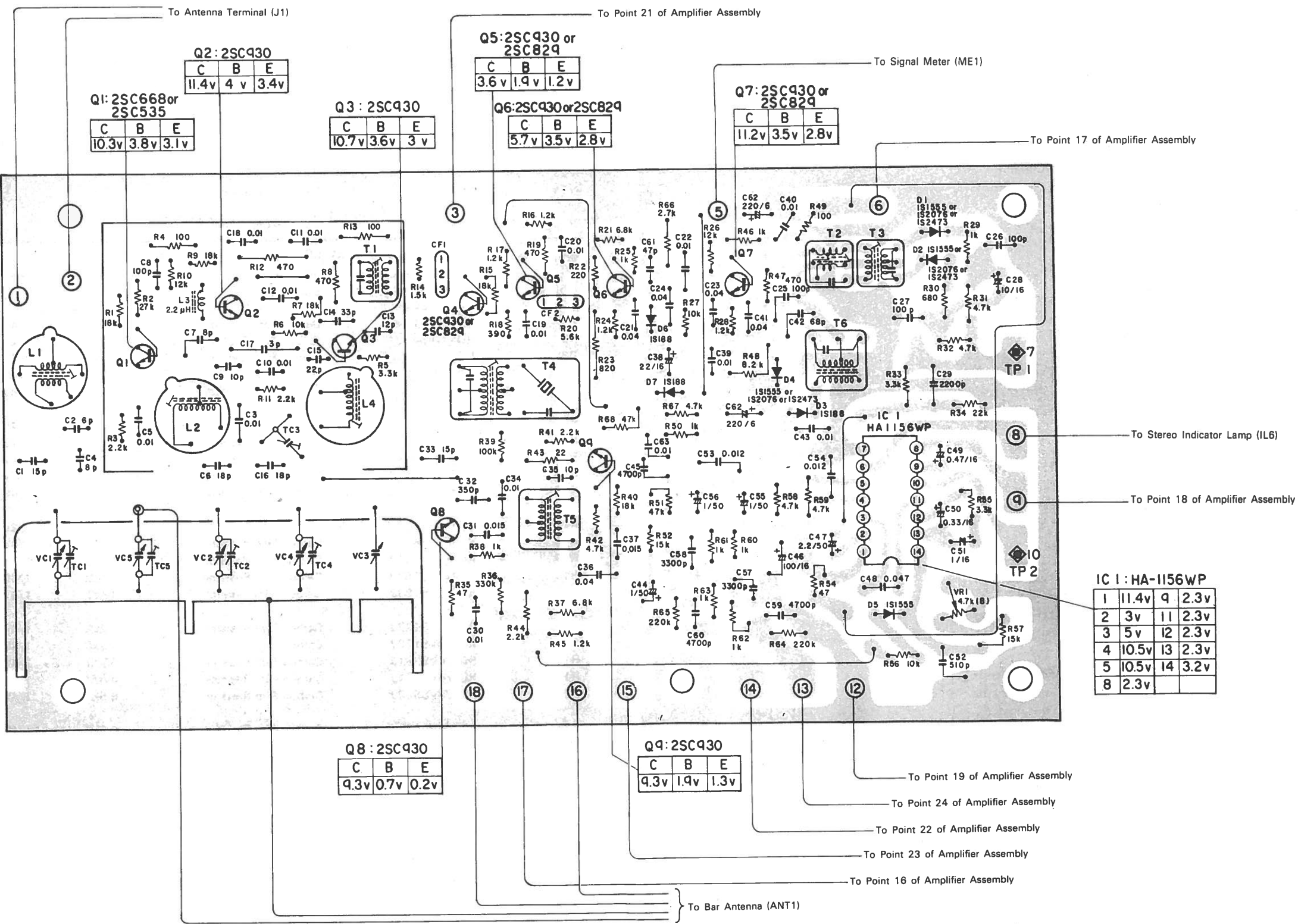
### ● Parts List

#### MISCELLANEOUS

Ref. Key	Parts No.	Description
IC1	HA-1156WP	IC
Q1	2SC668-D or 2SC535-B	Transistor Transistor
Q2	2SC930-D	Transistor
Q3	2SC930-C	Transistor
Q4	2SC930-C, D or 2SC829-B, C	Transistor Transistor
Q5	2SC930-C, D or 2SC829-B, C	Transistor Transistor
Q6	2SC930-C, D or	Transistor
Q6	2SC829-B, C	Transistor
Q7	2SC930-C, D or 2SC829-B, C	Transistor Transistor
Q8	2SC930-C	Transistor
Q9	2SC930-C	Transistor
D1	1S1555 or 1S2076 or 1S2473	Diode Diode Diode
D2	1S1555 or 1S2076 or	Diode Diode
D2	1S2473	Diode
D3	1S188-FM1	Diode
D4	1S1555 or 1S2076 or 1S2473	Diode Diode Diode
D5	1S1555	Diode
D6	1S188-FM1	Diode
D7	1S188-FM1	Diode
L1	T22-020	FM Antenna Coil
L2	T21-023	FM RF Coil
L3	CTF-010	Ferri-Inductor, 2.2 $\mu$ H
L4	CTC-001	FM OSC Coil
T1	CTC-002	FM IFT
T2	CTC-011	FM DET IFT
T3	CTC-012	FM DET IFT
T4	CTE-009	AM IFT
T5	CTE-036	AM OSC Coil
T6	CTE-001	AM DET IFT
CF1	CTF-038	Ceramic Filter
CF2	CTF-038	Ceramic Filter

# AM/FM TUNER UNIT

## ● Parts Connection



AM/FM TUNER UNIT

Centrex AH-711KU

Ref. Key	Parts No.	Description
VR1	C92-618	Semi-Fixed Variable Resistor 4.7kΩ (B)
TC1	C64-038	Variable Capacitor
TC2	C64-038	Variable Capacitor
TC3	CCG-008	Ceramic Trimmer
TC4	C64-038	Variable Capacitor
TC5	C64-038	Variable Capacitor
VC1	C64-038	Variable Capacitor
VC2	C64-038	Variable Capacitor
VC3	C64-038	Variable Capacitor
VC4	C64-038	Variable Capacitor
VC5	C64-038	Variable Capacitor

RESISTORS

Ref. Key	Parts No.	Description
R1	RD1/4VS183J	Carbon Film Resistor 18kΩ 1/4W
R2	RD1/4VS273J	Carbon Film Resistor 27kΩ 1/4W
R3	RD1/4VS222J	Carbon Film Resistor 2.2kΩ 1/4W
R4	RD1/4VS101J	Carbon Film Resistor 100Ω 1/4W
R5	RD1/4VS332J	Carbon Film Resistor 3.3kΩ 1/4W
R6	RD1/4VS103J	Carbon Film Resistor 10kΩ 1/4W
R7	RD1/4VS183J	Carbon Film Resistor 18kΩ 1/4W
R8	RD1/4VS471J	Carbon Film Resistor 470Ω 1/4W
R9	RD1/4VS183J	Carbon Film Resistor 18kΩ 1/4W
R10	RD1/4VS123J	Carbon Film Resistor 12kΩ 1/4W
R11	RD1/4VS222J	Carbon Film Resistor 2.2kΩ 1/4W
R12	RD1/4VS471J	Carbon Film Resistor 470Ω 1/4W
R13	RD1/4VS101J	Carbon Film Resistor 100Ω 1/4W
R14	RD1/4VS152J	Carbon Film Resistor 1.5kΩ 1/4W
R15	RD1/4VS183J	Carbon Film Resistor 18kΩ 1/4W
R16	RD1/4VS122J	Carbon Film Resistor 1.2kΩ 1/4W
R17	RD1/4VS122J	Carbon Film Resistor 1.2kΩ 1/4W
R18	RD1/4VS391J	Carbon Film Resistor 390Ω 1/4W
R19	RD1/4VS471J	Carbon Film Resistor 470Ω 1/4W
R20	RD1/4VS562J	Carbon Film Resistor 5.6kΩ 1/4W
R21	RD1/4VS682J	Carbon Film Resistor 6.8kΩ 1/4W
R22	RD1/4VS221J	Carbon Film Resistor 220Ω 1/4W
R23	RD1/4VS821J	Carbon Film Resistor 820Ω 1/4W
R24	RD1/4VS122J	Carbon Film Resistor 1.2kΩ 1/4W
R25	RD1/4VS102J	Carbon Film Resistor 1kΩ 1/4W
R26	RD1/4VS123J	Carbon Film Resistor 12kΩ 1/4W
R27	RD1/4VS103J	Carbon Film Resistor 10kΩ 1/4W
R28	RD1/4VS122J	Carbon Film Resistor 1.2kΩ 1/4W
R29	RD1/4VS102J	Carbon Film Resistor 1kΩ 1/4W
R30	RD1/4VS681J	Carbon Film Resistor 680Ω 1/4W

CAPACITORS

Ref. Key	Parts No.	Description
C1	CCDSL150K50	Ceramic Capacitor 15pF 50V
C2	CCDSL060D50	Ceramic Capacitor 6pF 50V
C3	CKDYF103Z25	Ceramic Capacitor 0.01μF 25V
C4	CCDSL080F50	Ceramic Capacitor 8pF 50V
C5	CKDYF103Z25	Ceramic Capacitor 0.01μF 25V
C6	CCDSL180K50	Ceramic Capacitor 18pF 50V
C7	CCDSL080F50	Ceramic Capacitor 8pF 50V
C8	CKDYB101K50	Ceramic Capacitor 100pF 50V
C9	CCDSL100F50	Ceramic Capacitor 10pF 50V
C10	CKDYF103Z25	Ceramic Capacitor 0.01μF 25V
C11	CKDYF103Z25	Ceramic Capacitor 0.01μF 25V
C12	CKDYD103M50	Ceramic Capacitor 0.01μF 50V
C13	CCDSH120K50	Ceramic Capacitor 12pF 50V
C14	CCDSH330K50	Ceramic Capacitor 33pF 50V
C15	CCDCH220K50	Ceramic Capacitor 22pF 50V
C16	CCDSH180K50	Ceramic Capacitor 18pF 50V
C17	CCDCJ030C50	Ceramic Capacitor 3pF 50V
C18	CKDYF103Z25	Ceramic Capacitor 0.01μF 25V
C19	CKDYF103Z25	Ceramic Capacitor 0.01μF 25V
C20	CKDYF103Z25	Ceramic Capacitor 0.01μF 25V
C21	CKDYF403Z25	Ceramic Capacitor 0.04μF 25V
C22	CKDYF103Z25	Ceramic Capacitor 0.01μF 25V
C23	CKDYF403Z25	Ceramic Capacitor 0.04μF 25V
C24	CKDYF403Z25	Ceramic Capacitor 0.04μF 25V
C25	CKDYB101K50	Ceramic Capacitor 100pF 50V
C26	CKDYB101K50	Ceramic Capacitor 100pF 50V
C27	CKDYB101K50	Ceramic Capacitor 100pF 50V
C28	CEA100P16	Electrolytic Capacitor 10μF 16V
C29	CQMA222J50	Mylar Capacitor 2200pF 50V
C30	CKDYF103Z25	Ceramic Capacitor 0.01μF 25V
C31	CQMA153K50	Mylar Capacitor 0.015μF 50V
C32	CQSA351J50	Styrol Capacitor 350pF 50V
C33	CCDSL150K50	Ceramic Capacitor 15pF 50V
C34	CQMA103K50	Mylar Capacitor 0.01μF 50V
C35	CCDSL100F50	Ceramic Capacitor 10pF 50V
C36	CKDYF403Z25	Ceramic Capacitor 0.04μF 25V
C37	CQMA153K50	Mylar Capacitor 0.015μF 50V
C38	CEA220P16	Electrolytic Capacitor 22μF 16V
C39	CKDYF103Z25	Ceramic Capacitor 0.01μF 25V
C40	CKDYF103Z25	Ceramic Capacitor 0.01μF 25V
C41	CKDYF403Z25	Ceramic Capacitor 0.04μF 25V
C42	CCDSL680K50	Ceramic Capacitor 68pF 50V
C43	CQMA103K50	Mylar Capacitor 0.01μF 50V
C44	CEA010P50	Electrolytic Capacitor 1μF 50V
C45	CQMA472K50	Mylar Capacitor 4700pF 50V

## Centrex AH-711KU

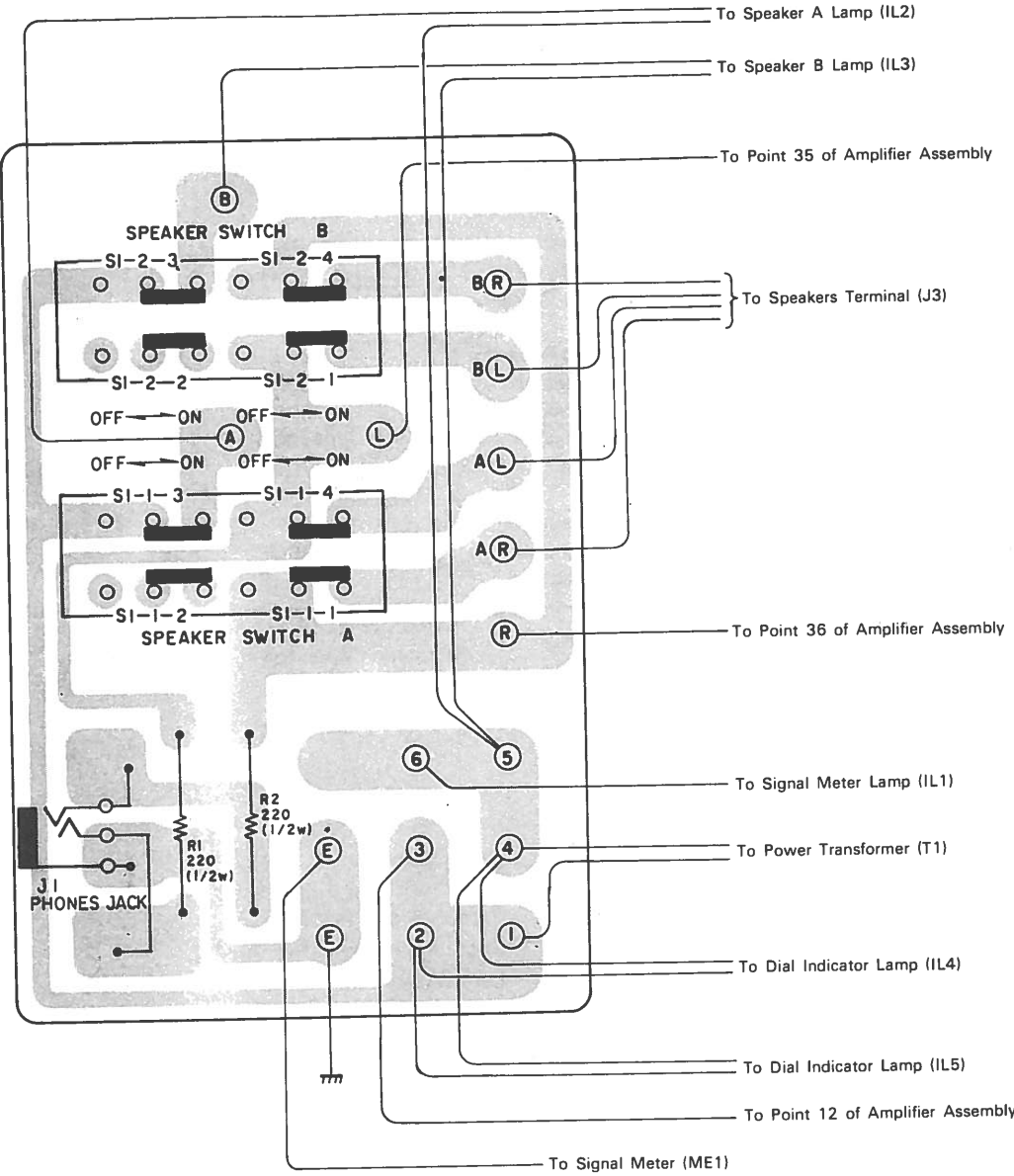
### AM FM TUNER UNIT

Ref. Key	Parts No.	Description		
C46	CEA101P16	Electrolytic Capacitor	100 $\mu$ F	16V
C47	CEA2R2P50	Electrolytic Capacitor	2.2 $\mu$ F	50V
C48	CQMA473K50	Mylar Capacitor	0.047 $\mu$ F	50V
C49	CSYAR47M16	Solid Electrolytic Capacitor	0.47 $\mu$ F	16V
C50	CSYAR33M16	Solid Electrolytic Capacitor	0.33 $\mu$ F	16V
C51	CSYA010M16	Solid Electrolytic Capacitor	1 $\mu$ F	16V
C52	CQSA511J50	Styrol Capacitor	510pF	50V
C53	CQMA123K50	Mylar Capacitor	0.012 $\mu$ F	50V
C54	CQMA123K50	Mylar Capacitor	0.012 $\mu$ F	50V
C55	CEA010P50	Electrolytic Capacitor	1 $\mu$ F	50V
C56	CEA010P50	Electrolytic Capacitor	1 $\mu$ F	50V
C57	CQMA332K50	Mylar Capacitor	3300pF	50V
C58	CQMA332K50	Mylar Capacitor	3300pF	50V
C59	CQMA472K50	Mylar Capacitor	4700pF	50V
C60	CQMA472K50	Mylar Capacitor	4700pF	50V
C61	CCDSL470K50	Ceramic Capacitor	47pF	50V
C62	CEA221P6	Electrolytic Capacitor	220 $\mu$ F	6V
C63	CQMA103K50	Mylar Capacitor	0.01 $\mu$ F	50V

Ref. Key	Parts No.	Description		
R1	RD1/2PS335J	Carbon Film Resistor	3.3M $\Omega$	1/2W
C1	CCG-018	Spark Killer Capacitor	0.01 $\mu$ F	AC125V
IL1	CEL-032	Lamp Assembly	6.3V	50mA
IL2	CEL-032	Lamp Assembly	6.3V	50mA
IL3	CEL-032	Lamp Assembly	6.3V	50mA
IL4	CEL-057	Lamp Assembly	6.3V	150mA
IL5	CEL-057	Lamp Assembly	6.3V	150mA
IL6	CEL-033	Lamp Assembly	14V	60mA
S1	CSG-047	Power Switch		
ME1	CAW-034	Signal Meter		
T1	CTT-083	Power Transformer		
ANT1	CTB-021	Ferrite Loopstick Antenna		
J1	K31-013	Screw Terminal, 4P		
J2	CKN-047	Pin Jack, 4P		
J3	CKN-047	Pin Jack, 4P		
J4	CDE-141	Power Cord		
J5	CDE-139	Shield Cord (White)		
J6	CDE-140	Shield Cord (Red)		

# SWITCH UNIT

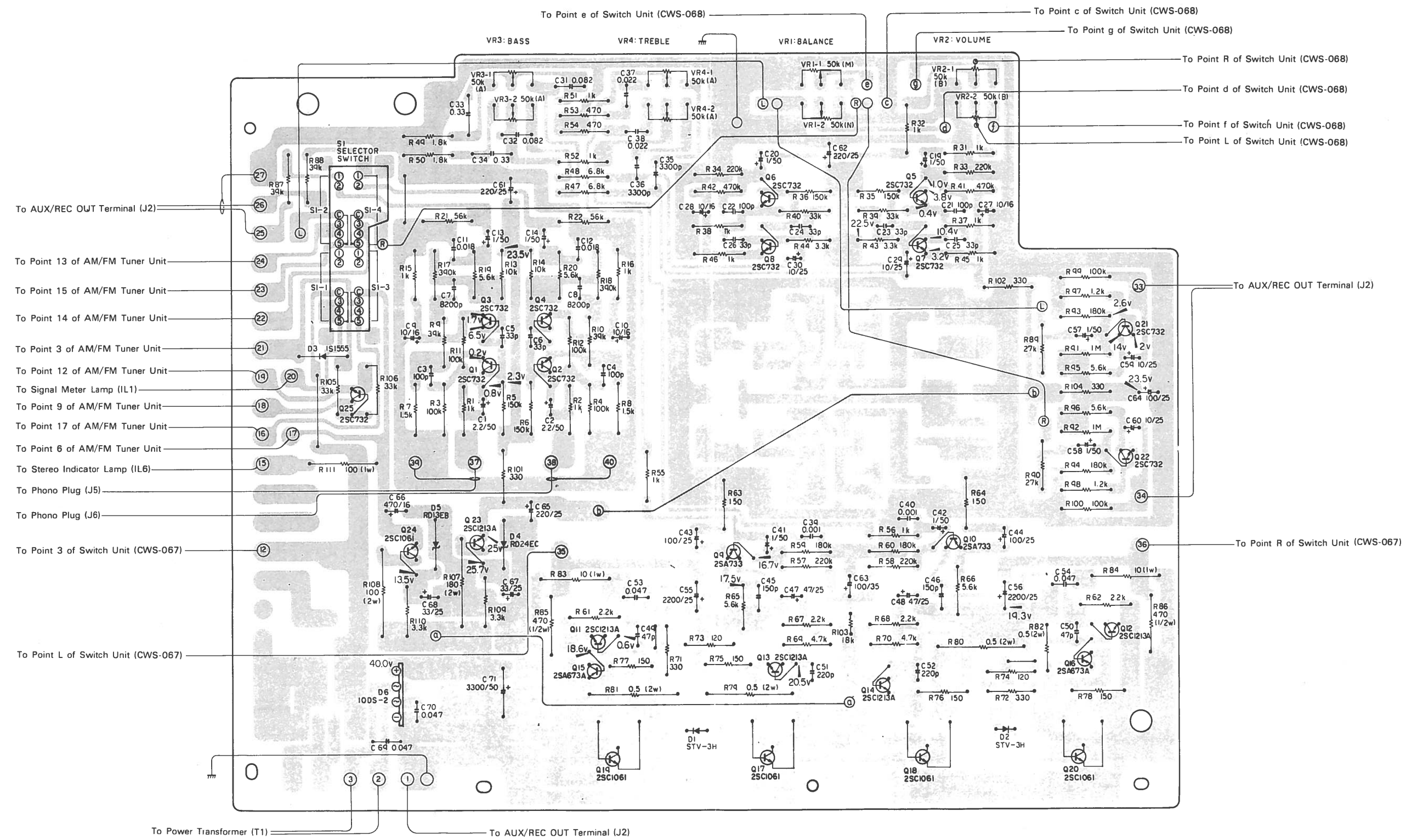
## ● Parts Connection



## ● Parts List

Ref. Key	Parts No.	Description
S1	CSG-077	Push Switch
R1	RD1/2PS221J	Carbon Film Resistor 220Ω 1/2W
R2	RD1/2PS221J	Carbon Film Resistor 220Ω 1/2W
J1	CKN-045	Headphone Jack

● Parts Connection





**Centrex AH-711KU**