

CF-570S

E Model



FM/SW2/SW1/MW STEREO CASSETTE-CORDER

SPECIFICATIONS

GENERAL

Power Requirements:	110, 120, 220, or 240 V ac, 50/60Hz 12 V dc Battery size-D, 8 pcs. (IEC designation R20) Car battery cord DCC-9 for 12 V car battery
Power Consumption:	12 W ac.
Power Output: (at dc operation)	3.3W x 2 (max.) 2W x 2 (at 10% harmonic distortion)
Speakers:	Two-way Two approx. 16cm (6½ inches) dia. woofer Two approx. 5cm (2 inches) dia. tweeter
Dimensions:	Approx. 475(w) x 298(h) x 128(d) mm 18¾ (w) x 11¾(h) x 5¼ (d) inches including projecting parts and controls not including handle.
Weight:	Approx. 7 kg, 15 lb 7 oz with batteries

RADIO SECTION

Antennas:	FM/SW: Telescopic antenna MW: ferrite-rod antenna
Frequency Ranges:	FM 87.5 – 108 MHz (3.43 – 2.78 m) SW2: 6 – 18 MHz (50 – 16.7 m) SW1: 2.3 – 6 MHz (130 – 50 m) MW: 530 – 1,605 kHz (566 – 187 m)

TAPE RECORDER SECTION

Track:	4 track 2-channel stereo or monaural
Fast Forward Rewind Time:	Approx. 2 minutes with Sony cassette C-60
Frequency Response:	50 – 10,000 Hz with standard cassette, with the TAPE SELECT switch set to NORMAL 50 – 13,000 Hz with chromium dioxide cassette, with the TAPE SELECT switch set to CrO ₂

– Continued on page 2 –

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SONY®

SERVICE MANUAL

CF-570S

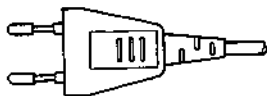
- Wow and Flutter:** 0.19% (WRMS)
S/N Ratio: 45 dB
Total Harmonic Distortion: 2.5%
Battery Life: In continuous recording with built-in microphone:
Approx. 8 hours with Sony long-life batteries
- Input:** MIC (two minijacks)
Sensitivity: 0.2 mV (-72 dB)
Impedance: for low-impedance microphone
LINE IN (two phono jacks)
Sensitivity: 0.2V (-12 dB)
Impedance: 100k Ω
- Output:** LINE OUT (two phono jacks)
Normal level: 0.44 V (-5 dB) at load impedance 100k Ω
Load impedance: more than 10 k Ω
HEADPHONES (binaural jack)
Load impedance: 8 Ω
- Other Jack:** Remote control jack

0dB=0.775V

● MODEL IDENTIFICATIONS

— Power Cord —

E1 model : euro-plug

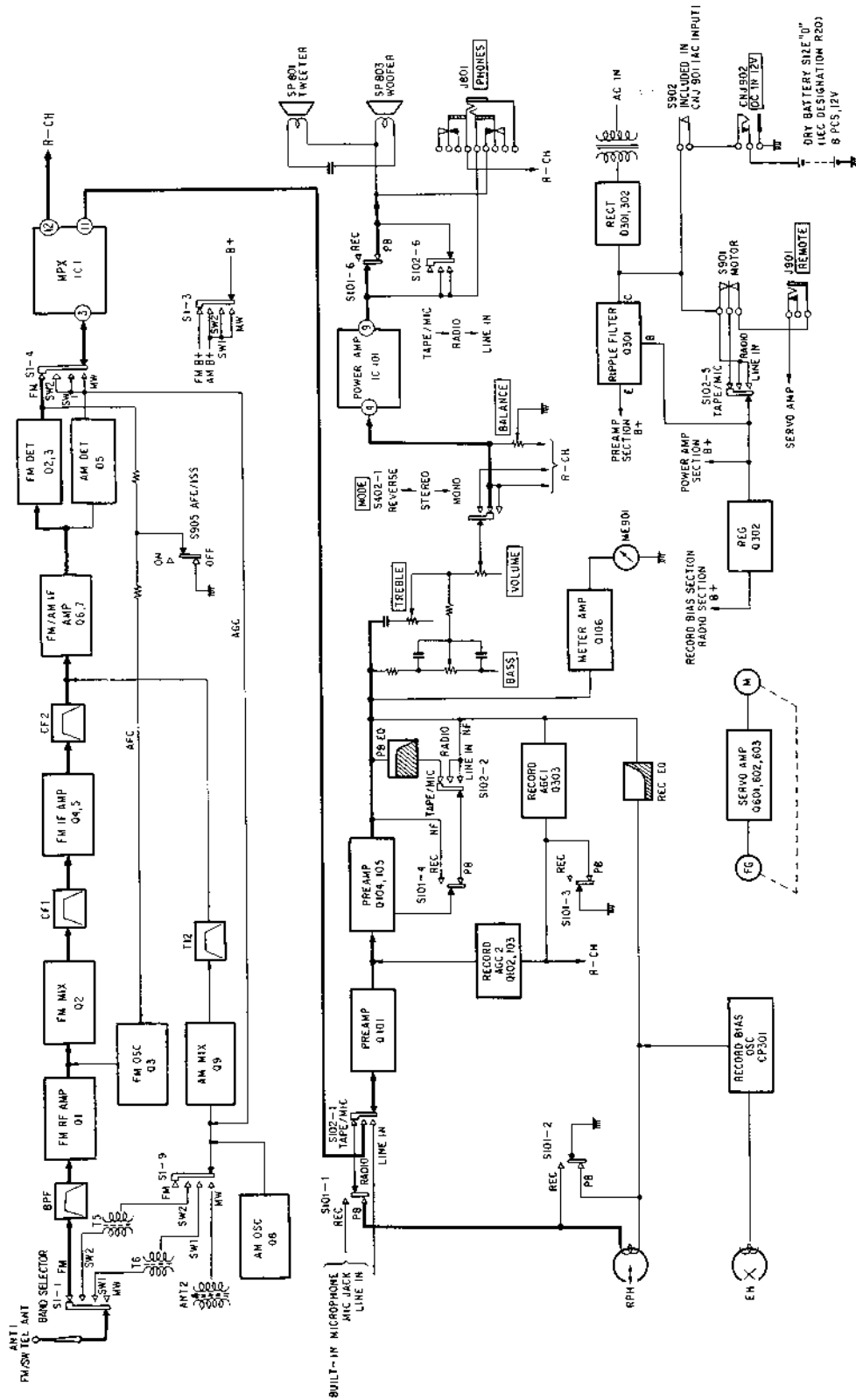


E2 model : parallel blade plug



SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM



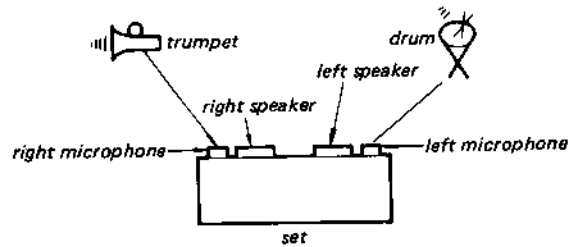
F-570S

1-2. REVERSE POSITION OF MODE SWITCH

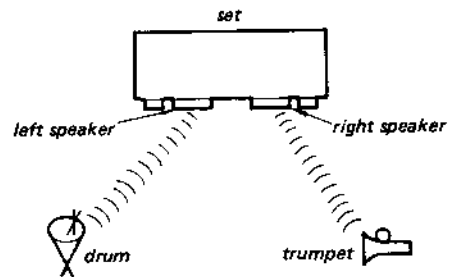
The MODE switch of CF-570S has the MONO, STEREO and REVERSE positions. The left and right sounds are reversely heard in the REVERSE position. And this set has two microphones at the both sides of front case. The sound which is recorded from the left microphone is played back from the left speaker, and the sound from the right microphone is played back from the right speaker.

Thus, when a recording is made with the recorder facing the sound sources as shown right, the playback sound of the left source is heard from the right speaker and the sound of right source is heard from the left speaker. So the playback sound is reversely heard. But setting the MODE switch to REVERSE position, the playback sound from the left and right speakers will be reversed and duplicate the original position correctly.

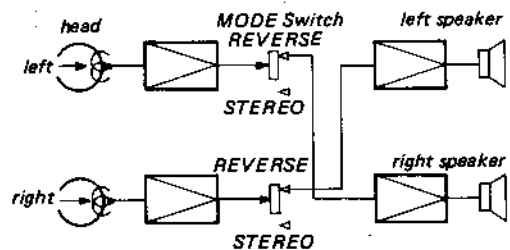
Stereo recording



Stereo playback (MODE switch: STEREO position)



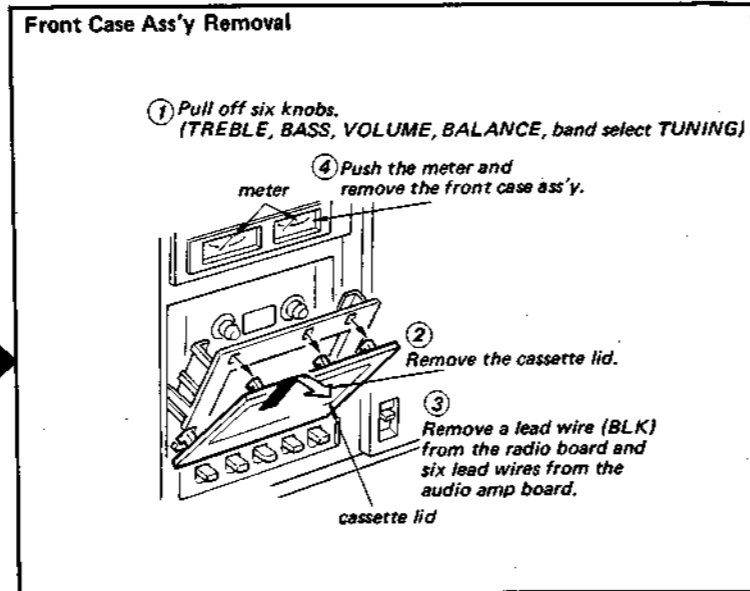
Playback in REVERSE position



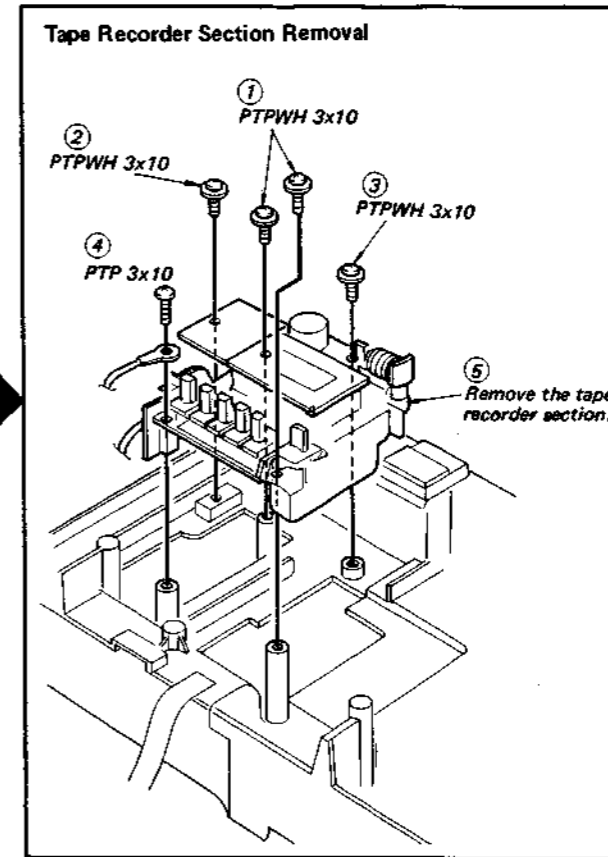
SECTION 2
DISASSEMBLY

2-1. REMOVAL

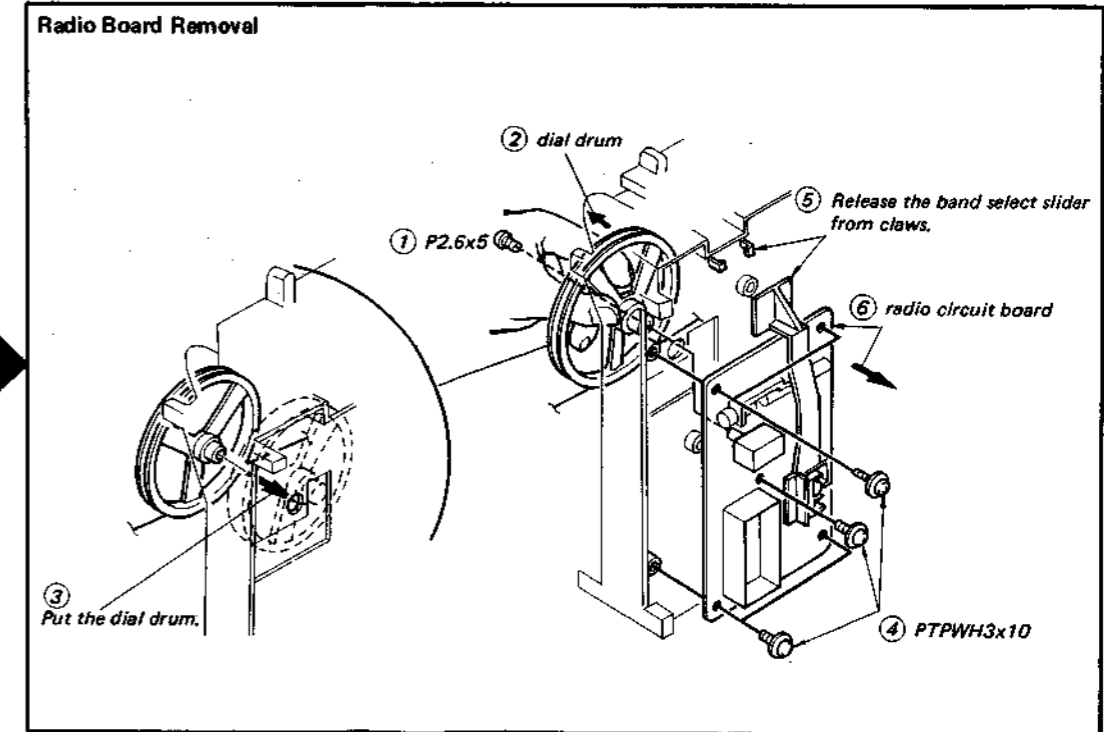
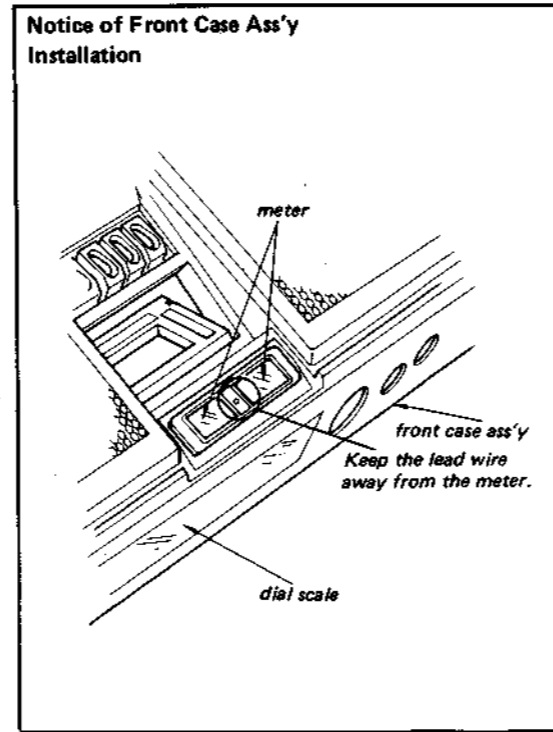
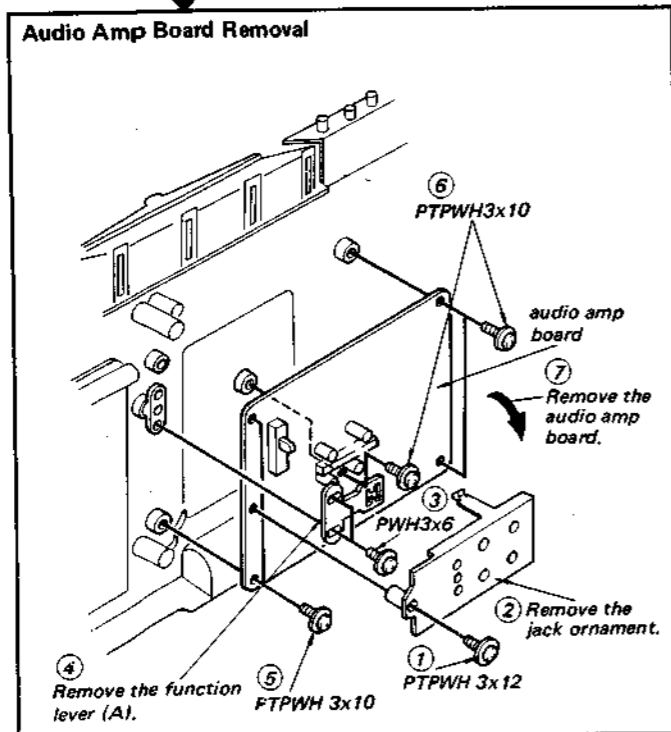
Rear Case Removal
• Remove eight screws on the rear case.



Dial Cord Stringing
See page 7.



Motor, flywheel and rubber belt can be removed.

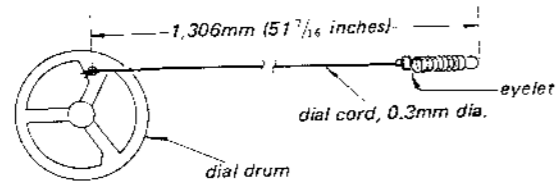


SECTION 3
ADJUSTMENTS

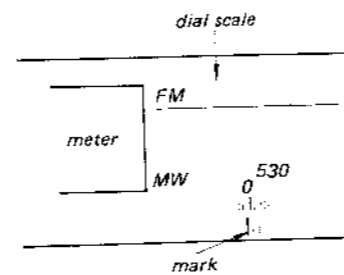
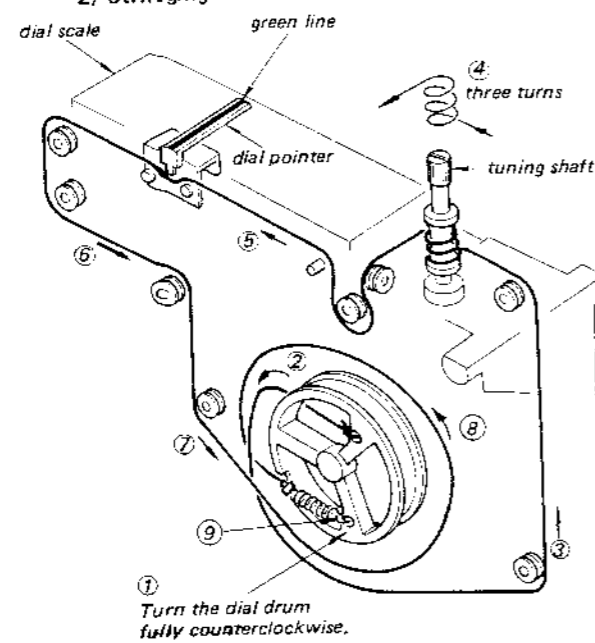
3-1. TAPE CORDER SECTION
MECHANICAL ADJUSTMENTS

2-2. DIAL CORD STRINGING

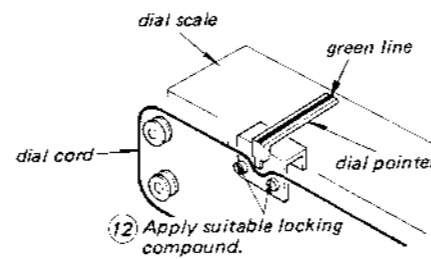
1) Preparation



2) Stringing



- 10 Turn the tuning shaft fully counterclockwise.
- 11 Set the green line of dial pointer at the mark on the dial scale.



- 12 Apply suitable locking compound.

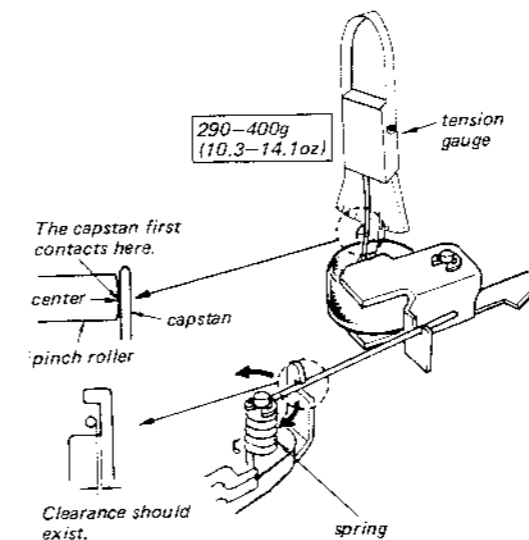
PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:
 - record/playback head
 - erase head
 - capstan
 - pinch roller
 - rubber belts
 - idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply a suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Pinch Roller Pressure Adjustment

— playback mode —

1. Push the tension gauge.
2. Slowly return the pinch roller and read the tension gauge just when the pinch roller starts to rotate.
3. If necessary, bend or replace the spring.



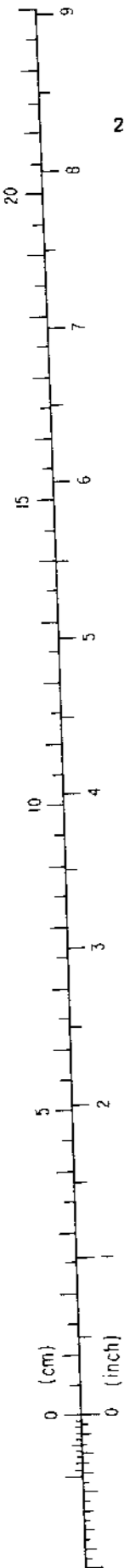
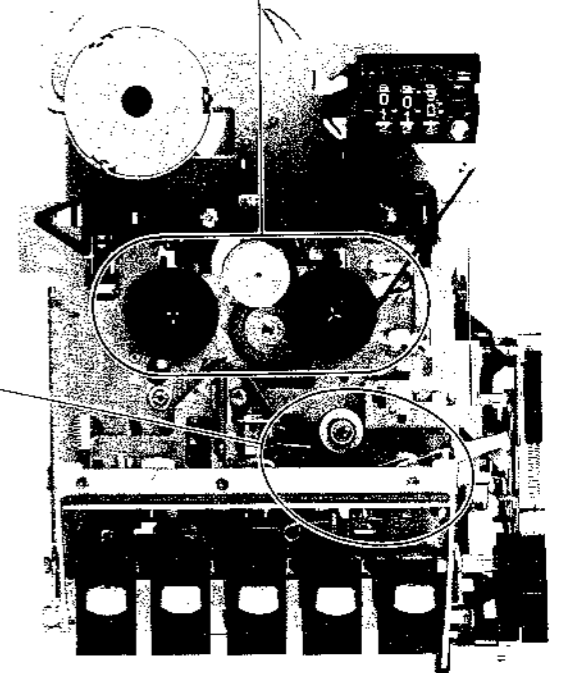
Torque Measurement

Forward:

Torque meter	Meter reading
CQ-101A	22.5-55 g.cm
CQ-102A	(0.32-0.76 oz.-inch)
CQ-103A	

Fast Forward, Rewind:

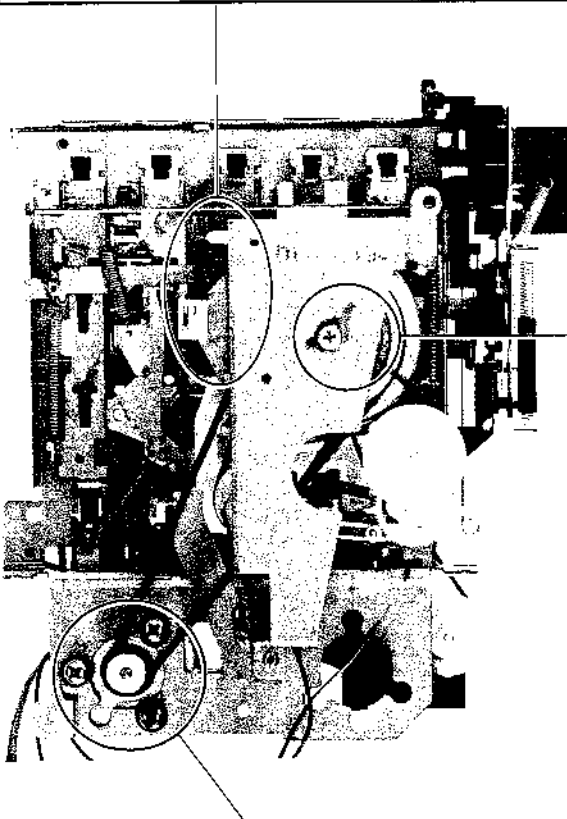
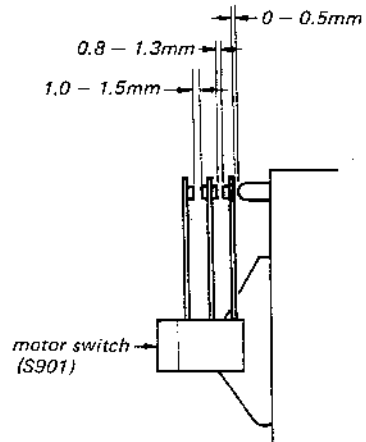
Torque meter	Meter reading
CQ-201A	55-100 g.cm (0.76-1.39 oz.-inch)



Motor Switch (S901) Position Adjustment

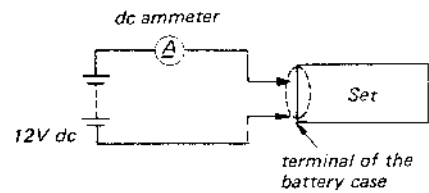
— stop mode —

1. Bend the switch leaf so that the specified clearance is obtained between the switch lever and switch leaf.
2. After the adjustment, confirm that the motor switch turns ON in playback, fast forward and rewind modes.



Flywheel Thrust Play Adjustment

Procedure:



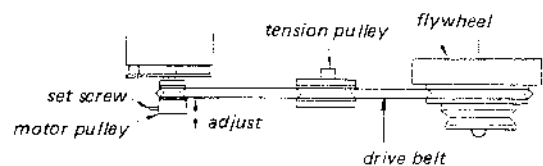
1. Place the set horizontally and reel-spindle-side-down.
2. Loosen the screw by turning it counterclockwise.
3. Carefully tighten the screw until current suddenly increases. Then, loosen the screw 1/4 turn.

Motor Pulley Height Adjustment

After replacing the motor pulley or the flywheel, this adjustment should be performed.

Procedure:

1. Keep the set horizontal.
2. Adjust the motor pulley height so that the drive belt is straight without twist.



**3-2. TAPE RECORDER SECTION
ELECTRICAL ADJUSTMENTS**

Note: The adjustments should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

B+ Voltage Adjustment

Setting:

Power supply voltage: 12V dc
band select switch: FM
function switch: RADIO
VOLUME control: minimum

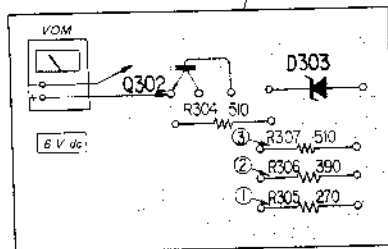
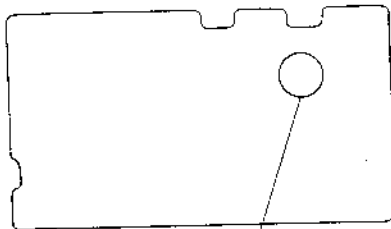
Procedure:

Adjust the pattern connection for 6V VOM reading.

Adjustment Location and Specification:

Pattern connection	B+ Voltage
①	high
②	↕
③	low

— audio amp board —



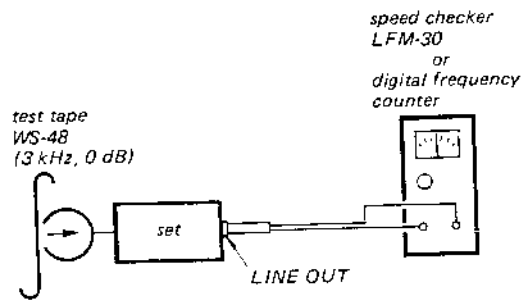
Tape Speed Adjustment

Setting:

function switch: TAPE/MIC

Procedure:

Mode: playback



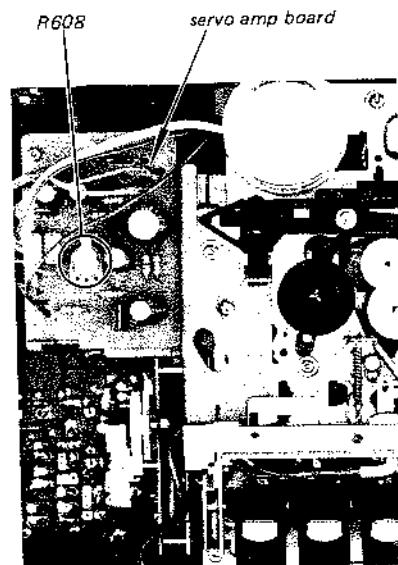
Adjust R608 to obtain the specified values below.

Specification:

Speed checker	Digital frequency counter
-2.5 -- +3%	2,925 - 3,090 Hz

Frequency difference between beginning and end of tape should be within 1% (30 Hz).

Adjustment Location:



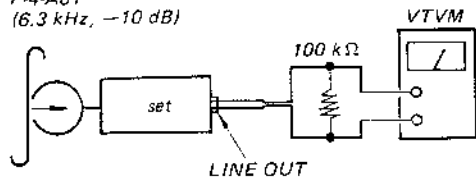
Record/playback Head Azimuth Adjustment

Setting:

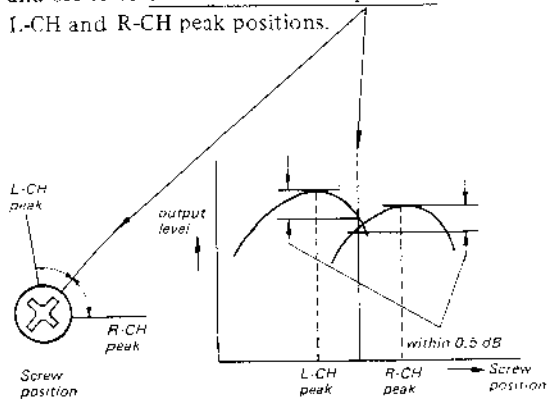
function switch: TAPE/MIC
 MODE switch: STEREO

Procedure:

1. Mode: playback
 test tape
 P-4-A81
 (6.3 kHz, -10 dB)

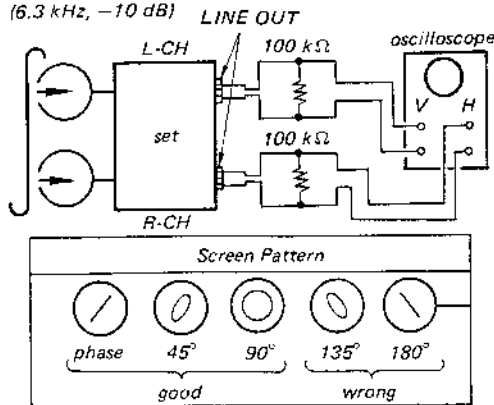


2. Turn the adjustment screw for the maximum level and set it to the mechanical mid position between L-CH and R-CH peak positions.



3. Mode: playback

test tape
 P-4-A81
 (6.3 kHz, -10 dB)



Adjustment Location:



Playback Level Adjustment

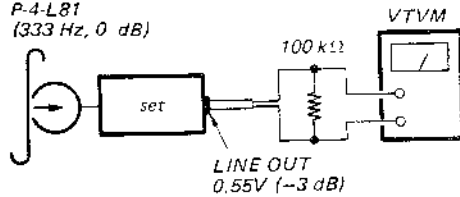
Setting:

function switch: TAPE/MIC
 MODE switch: STEREO

Procedure:

1. Mode: playback

test tape
 P-4-L81
 (333 Hz, 0 dB)



Adjust R127 (L-CH) and R227 (R-CH) to obtain 0.55V (-3dB) VTVM reading.

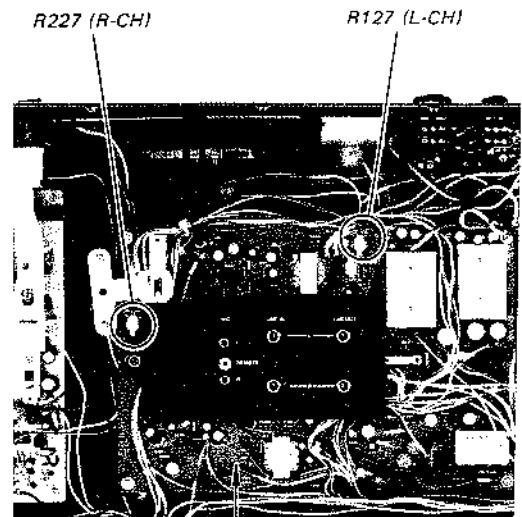
2. Assure that the LINE OUT level does not change when the mode is changed from playback to stop several times.

Specification:

LINE OUT level: 0.44-0.69V
 (-1 -- 5dB)

Level difference between channels:
 less than 1.0dB

Adjustment Location:



audio amp board

F-570S

Level Meter Calibration

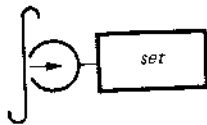
Setting:

Power supply voltage: 12V dc
function switch: TAPE/MIC
MODE switch: STEREO

Procedure:

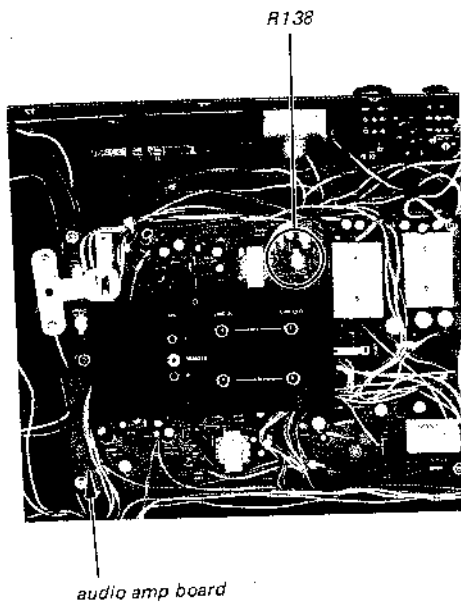
1. Mode: playback

test tape
P-4-LB1
(333Hz, 0dB)



Adjust R138 so that level meter indication of L-CH becomes the same as R-CH.

Adjustment Location:



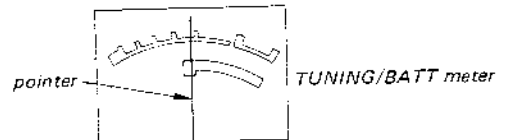
Battery Meter Calibration

Setting:

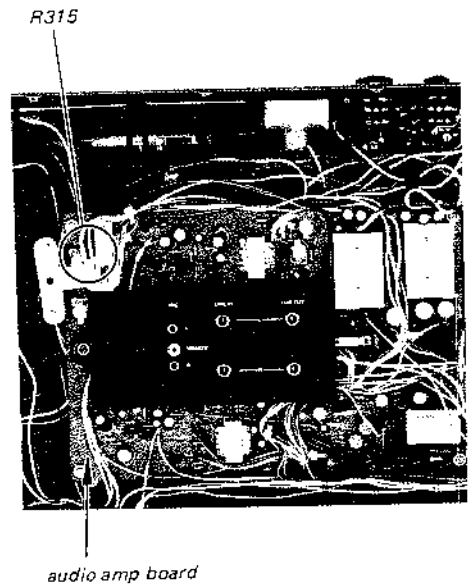
Power supply voltage: 8.8V dc
function switch: TAPE/MIC
VOLUME control: minimum

Procedure:

1. Mode: playback with no cassette loaded
2. Adjust R315 for specified pointer position on the TUNING/BATT meter as shown.



Adjustment Location:



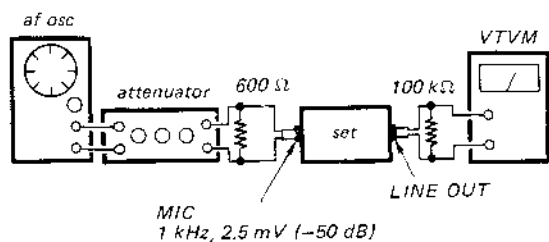
AGC Balance Adjustment

Setting:

function switch: TAPE/MIC
 MODE switch: STEREO

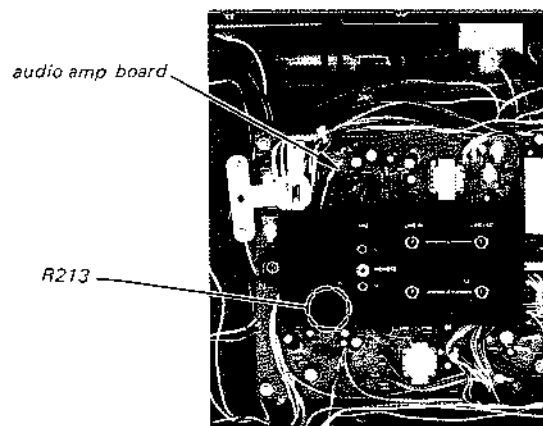
Procedure:

1. Mode: record



2. Adjust R213 so that LINE OUT of R-CH becomes the same level as L-CH.

Adjustment Location:



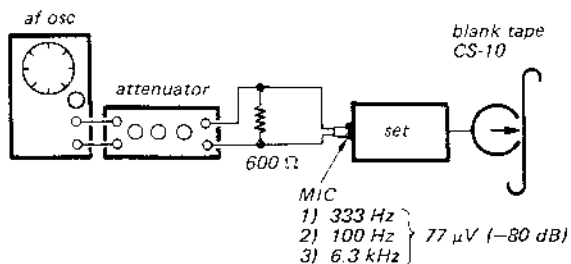
Record Bias Adjustment

Setting:

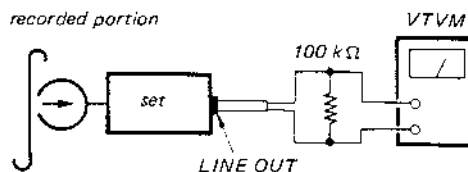
function switch: TAPE/MIC
 TAPE SELECT switch: NORMAL

Procedure:

1. Mode: record



2. Mode: playback

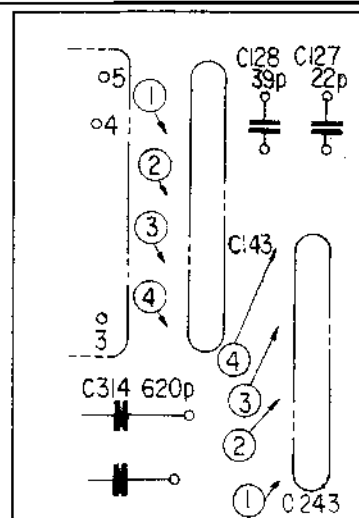


Specification:

100 Hz and 6.3 kHz level difference from 333 Hz:
 0 dB ± 1.5 dB

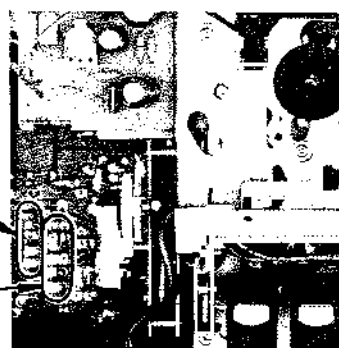
Adjustment Location:

Pattern connection	6.3 kHz VTVM reading
①	down ↑ up
②	
③	
④	



C143 (L-CH)

C243 (R-CH)



audio amp board

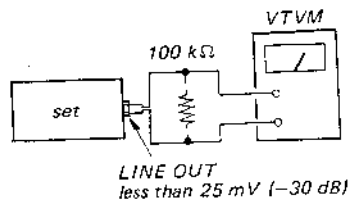
Bias Trap Adjustment

Setting:

function switch: LINE IN
AFC/ISS switch: OFF

Procedure:

Mode: record (no signal input)

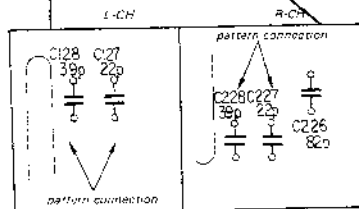
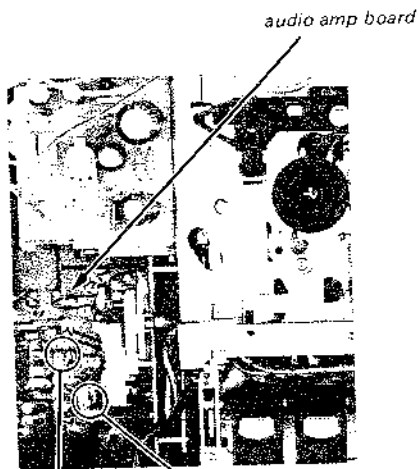


Adjust pattern connection for the specified reading on VTVM.

Specification:

LINE OUT: less than 25 mV (-30 dB)

Adjustment Location:



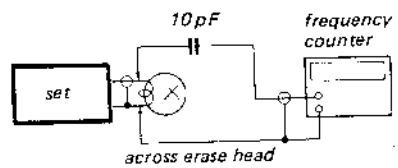
Bias Osc Frequency Adjustment

Setting:

function switch: TAPE/MIC
AFC/ISS switch: OFF

Procedure:

Mode: record (no signal input)



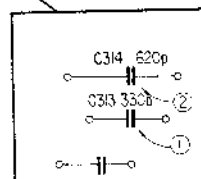
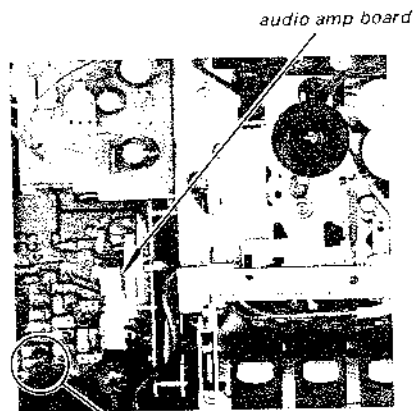
Adjust the pattern connection for the specified reading on frequency counter.

Specification:

frequency counter: 81.9 ~ 87 kHz

Adjustment Location:

Pattern connection	Bias Osc frequency
Open	high
①	↓
②	
① and ②	low



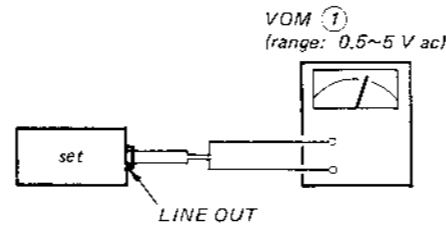
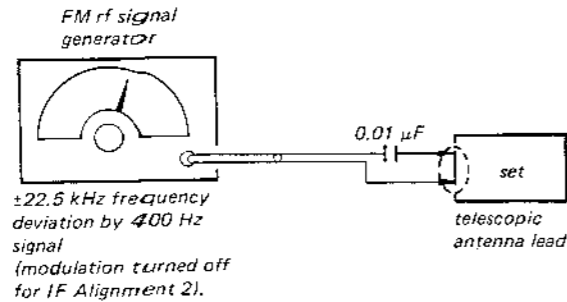
CF-570S CF-570S

3-3. RADIO SECTION

1) FM

Setting:

function switch: RADIO
band select switch: FM



Note:

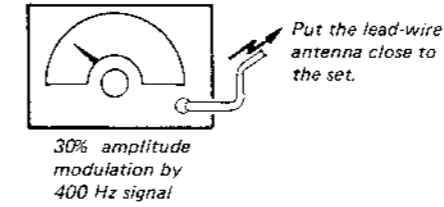
- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

2) MW, SW1 and SW2

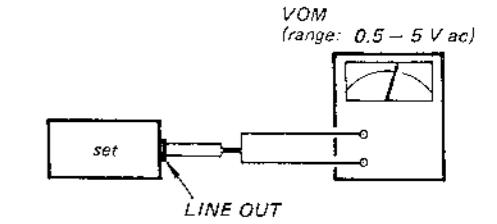
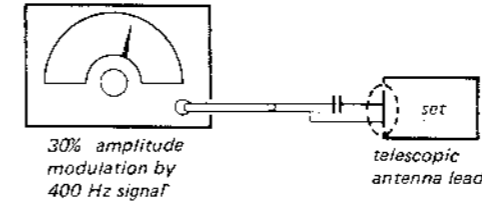
Setting:

function switch: RADIO
band select switch: MW, SW1 or SW2

AM rf signal generator for MW adjustments and AM IF alignment



AM rf signal generator for SW1 and 2 Adjustment



Note:

- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM ①	
108.5 MHz	CT1
87.1 MHz	L1

FM IF ALIGNMENT 1 (10.7 MHz with modulation)	
Adjust for a maximum reading on VOM ①	
T1	
T2	
T3	

FM IF ALIGNMENT 2 (10.7 MHz with no modulation)	
Adjust for 0V reading on VOM ②	
T3	

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM ①	
CT2	108.5 MHz
L2	87.1 MHz

MW TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM	
620 kHz	ANT2
1,400 kHz	CT3

AM IF ALIGNMENT	
Adjust for a maximum reading on VOM	
455 kHz	T12
	T4

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM	
520 kHz	T9
1,680 kHz	CT8

SW2 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM	
CT5	18.4 MHz
T5	5.8 MHz

SW1 TRACKING ADJUSTMENT	
Adjust for a maximum reading on VOM	
CT4	6.3 MHz
T6	2.2 MHz

SW2 FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM	
T7	5.8 MHz
CT6	18.4 MHz

SW1 FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VOM	
T8	2.2 MHz
CT7	6.3 MHz

radio board

VOM ② (range: 1Vdc)	
	T2
	T3

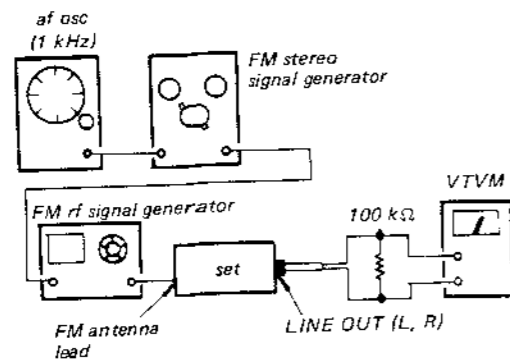
R34 20k

FM Stereo Separation Adjustment

Setting:

function switch: RADIO
 band select switch: FM
 MODE switch: STEREO

Procedure:



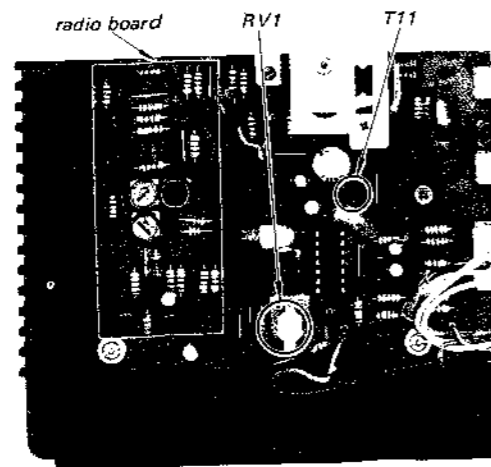
Carrier frequency: 98 MHz
 Modulation frequency: 1 kHz
 Output level: 1,000 μ V (60dB)

1. With L-CH (or R-CH) input signal, adjust T11 for maximum output level at LINE OUT L-CH (or R-CH).
2. With L-CH input signal, adjust RV1 for minimum output level at LINE OUT R-CH.

Specification:

Level difference between step 1 and 2 should be more than 28 dB. If not, repeat the above steps.

Adjustment Location:



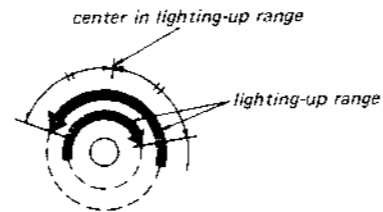
19 kHz Adjustment.

Setting:

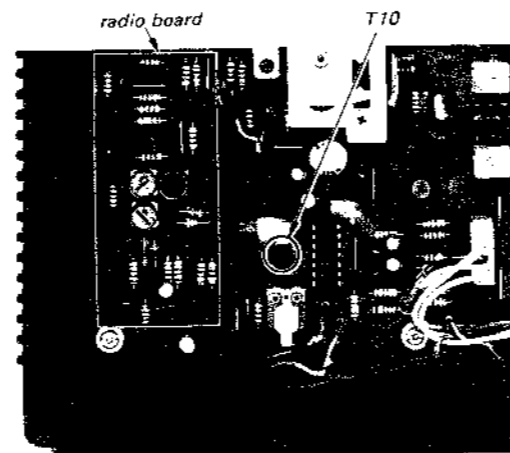
function switch: RADIO
 band select switch: FM
 MODE switch: STEREO

Procedure:

1. Tune the set to the FM stereo broadcasting signal.
2. Turn T10 clockwise or counterclockwise and memorize the lighting-up range of stereo lamp.
3. Secure T10 at the center in lighting-up range of both turns as shown below.



Adjustment Location:



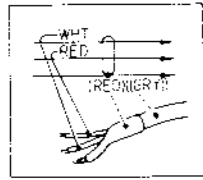
SECTION 4
DIAGRAMS

4-1. MOUNTING DIAGRAM

- Servo Amp, Radio and Audio Amp Boards -

Note:

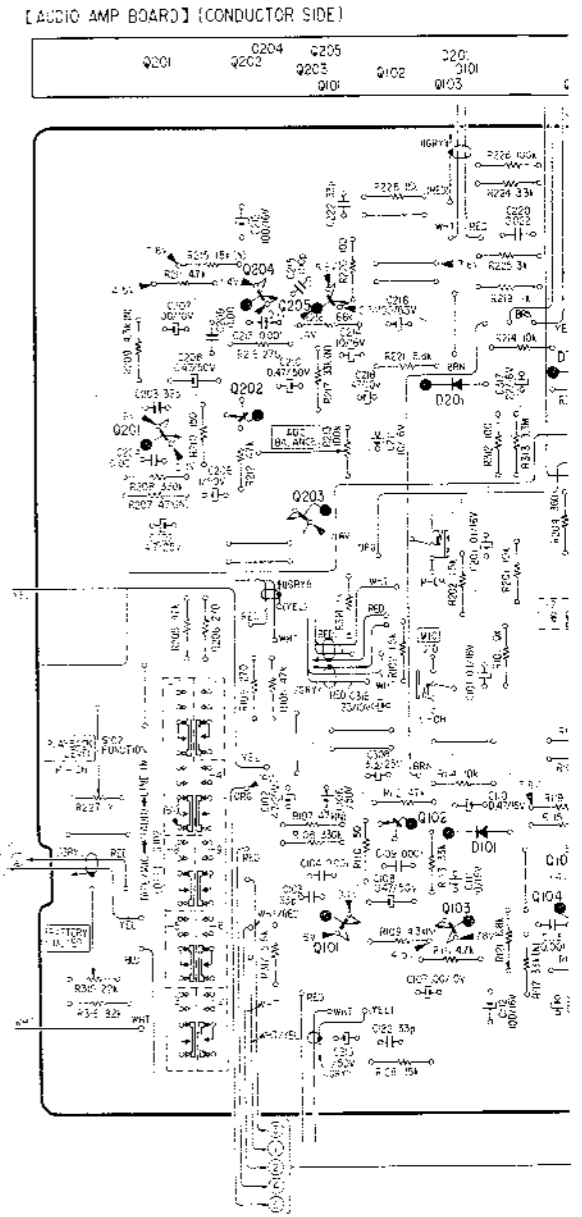
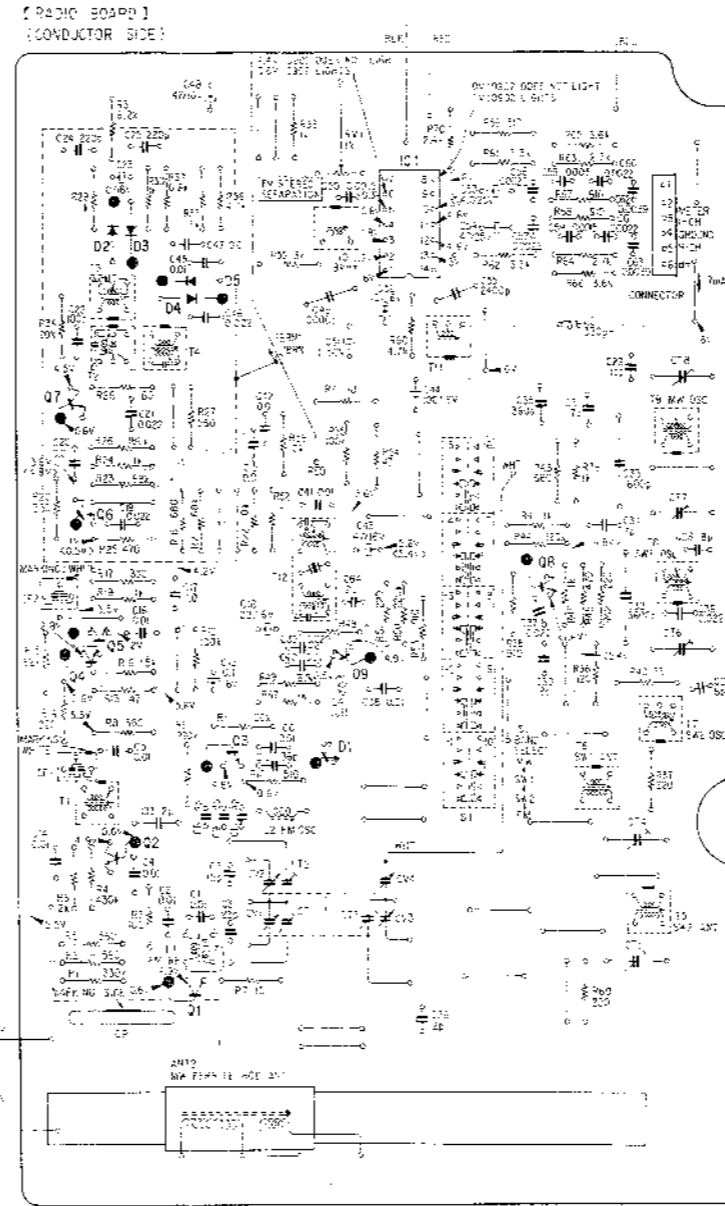
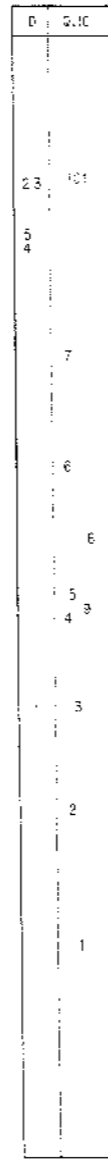
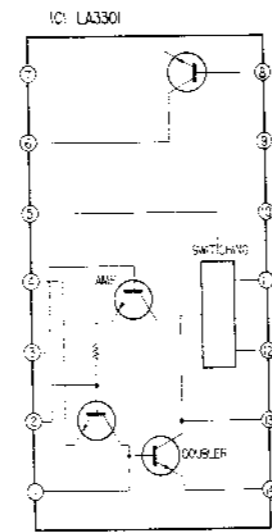
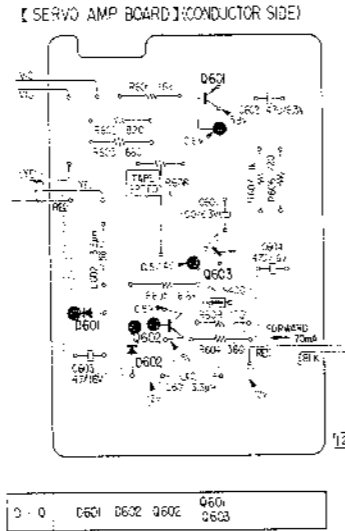
- Color code of sleeving over the end of the jacket.



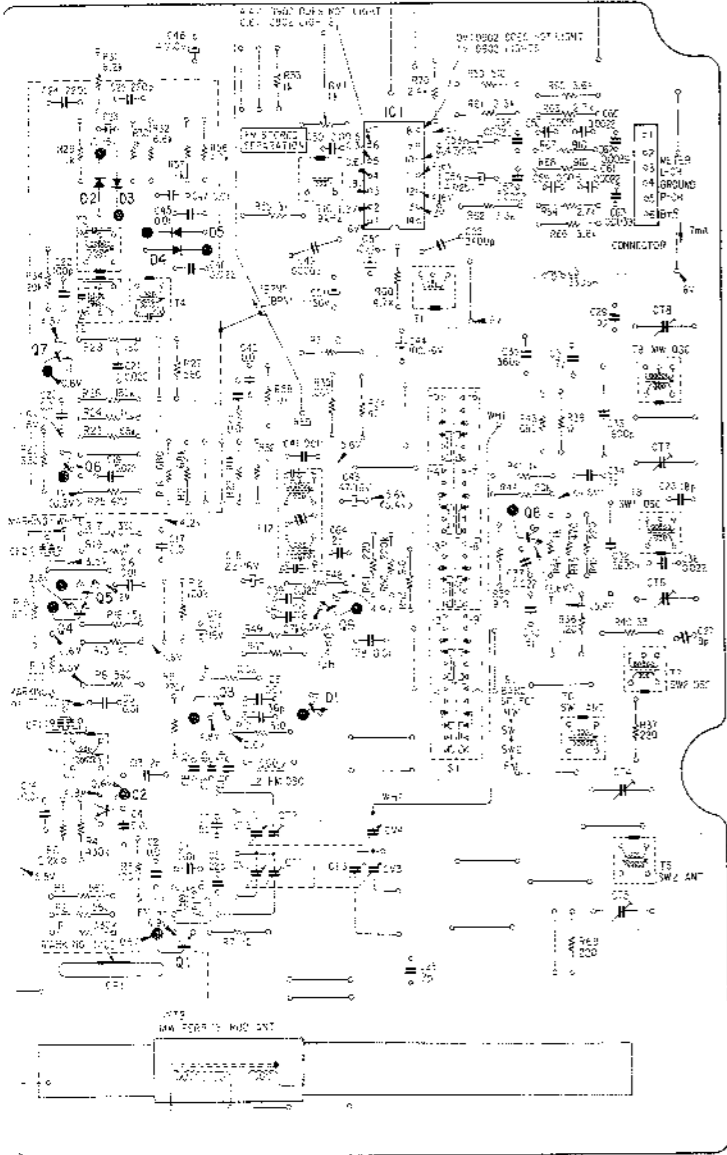
- : part mounted on the conductor side.
- : indicates side identified with part number.
- ⊕ : B+ pattern
- Readings are taken under no-signal conditions with a VOM (20kΩ/V).
- () : RECORD
- < > : AM
- no mark : FM or PLAYBACK

Replacement Semiconductors
For replacement, use semiconductors except in ()

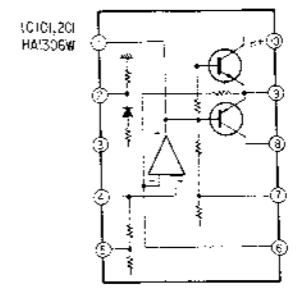
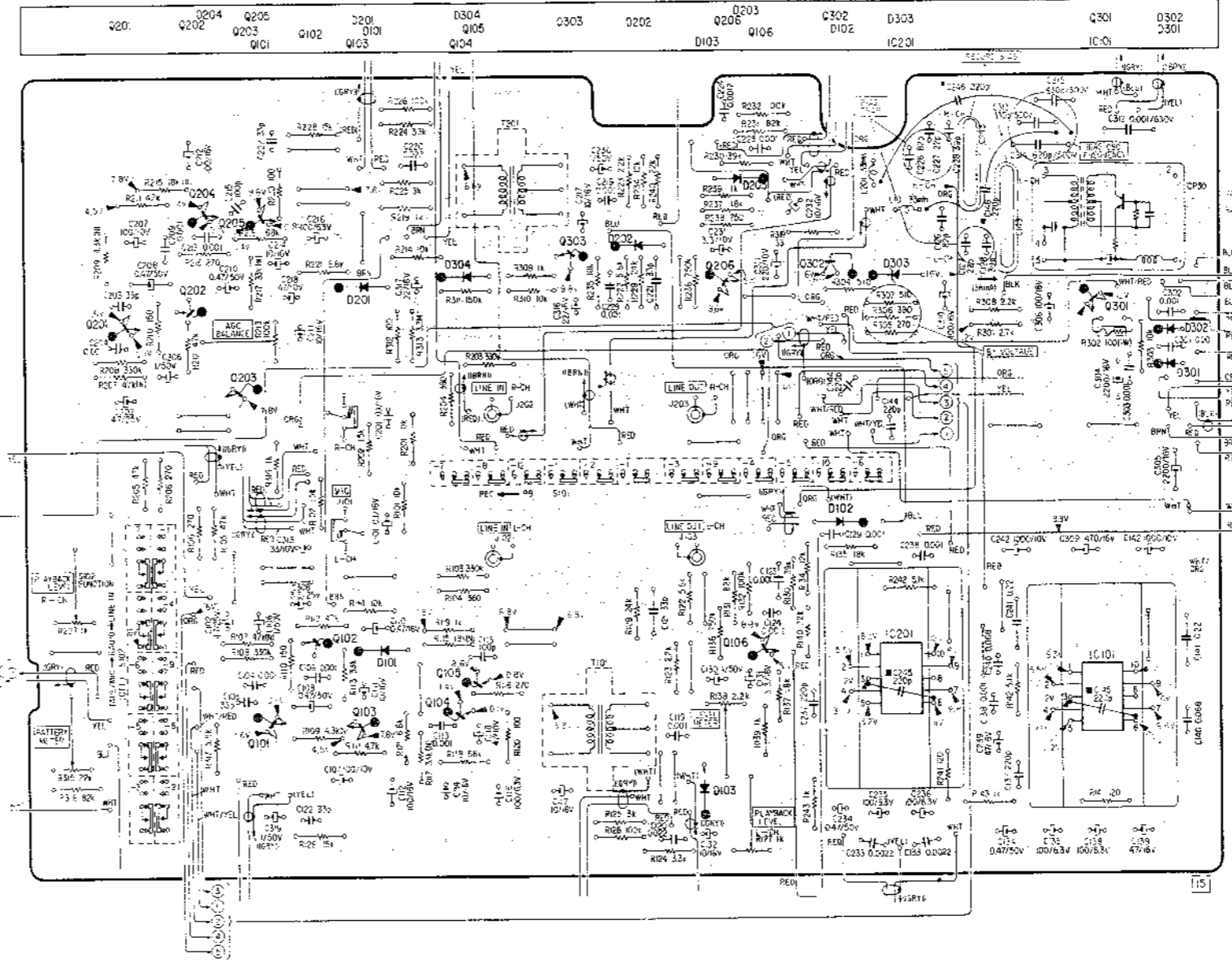
- | | |
|----------------------------------|-------------------------------|
| IC1: LA3301 | Q601: 2SC1761 |
| IC101, 201: HA1306W | Q602, 2SB324 (2SA475) |
| Q1, 8: 2SC830 | D1: 2SC634A |
| Q4, 7, 9: 2SC710 | D2, 3: 1T261 |
| Q101, 201: 2SC632A (2SC631A) | D4, 5: 1T22A |
| Q103, 105: 2SC634A (2SC633A) | D101, 201, 302: 1S1555 (1T40) |
| Q106, 203: 2SC634A (2SC633A) | D102, 103: 1T22A (1T22) |
| Q205, 206, 301: 2SC632A (2SC631) | D202, 203, 304: 1T22A (1T22) |
| Q104, 204: 2SC632A (2SC631) | D301, 302: 10E2 |
| Q303, 603: 2SC634A (2SC633) | D601: 10E2 (10E1) |
| Q102, 202: 2SC1354 (2SC633A) | D901, 902: SLP24B |
| Q302: 2SC1173 | Q2, 3: 2SC1129 (2SC666) |
| | D303: EQB01-08 (RD7.5E) |



[RADIO BOARD]
[CONDUCTOR SIDE]



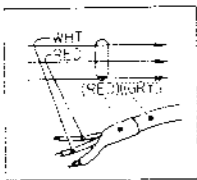
[AUDIO AMP BOARD] [CONDUCTOR SIDE]



4-2. MOUNTING DIAGRAM

Note:

- Color code of sleeving over the end of the jacket.

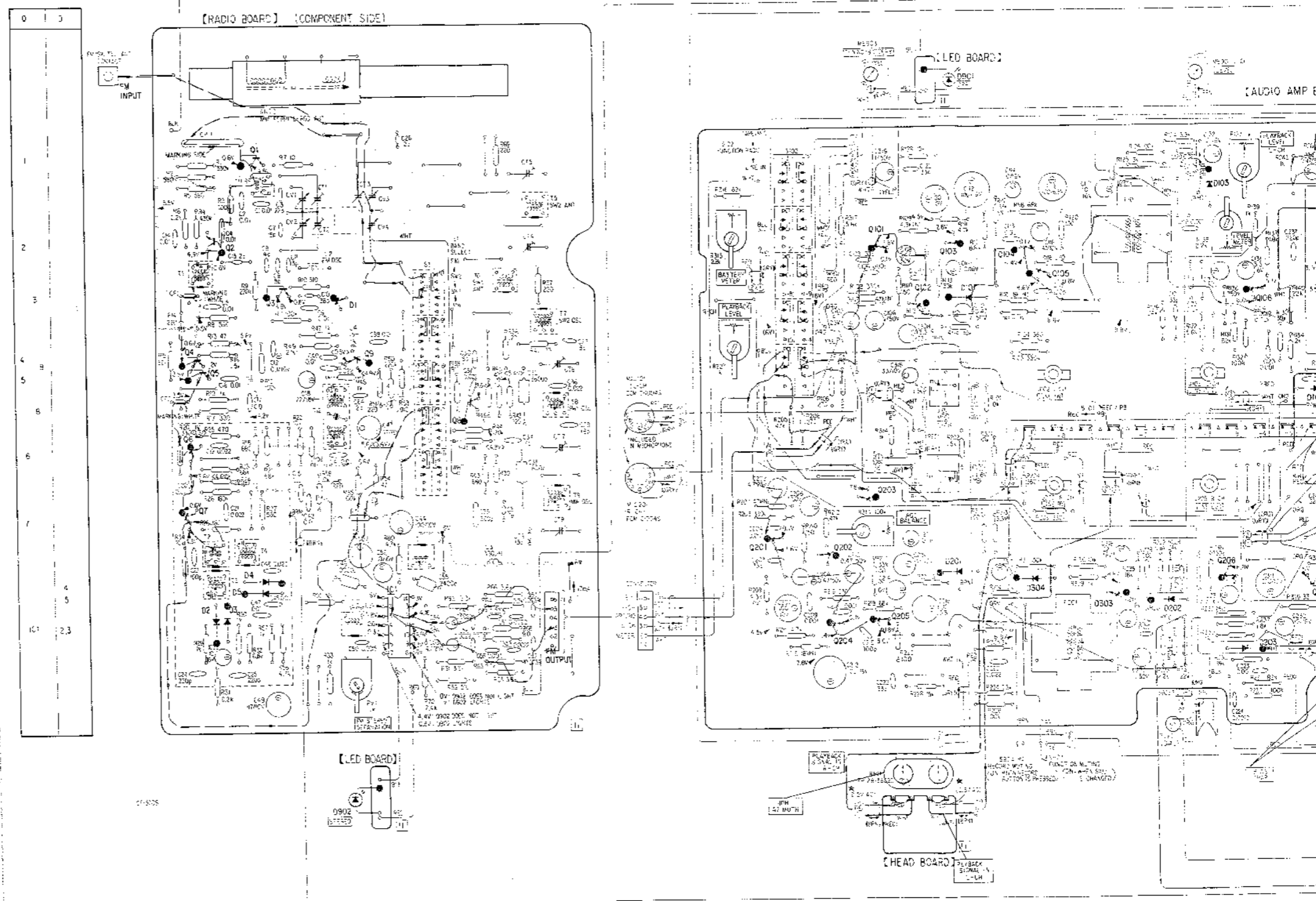


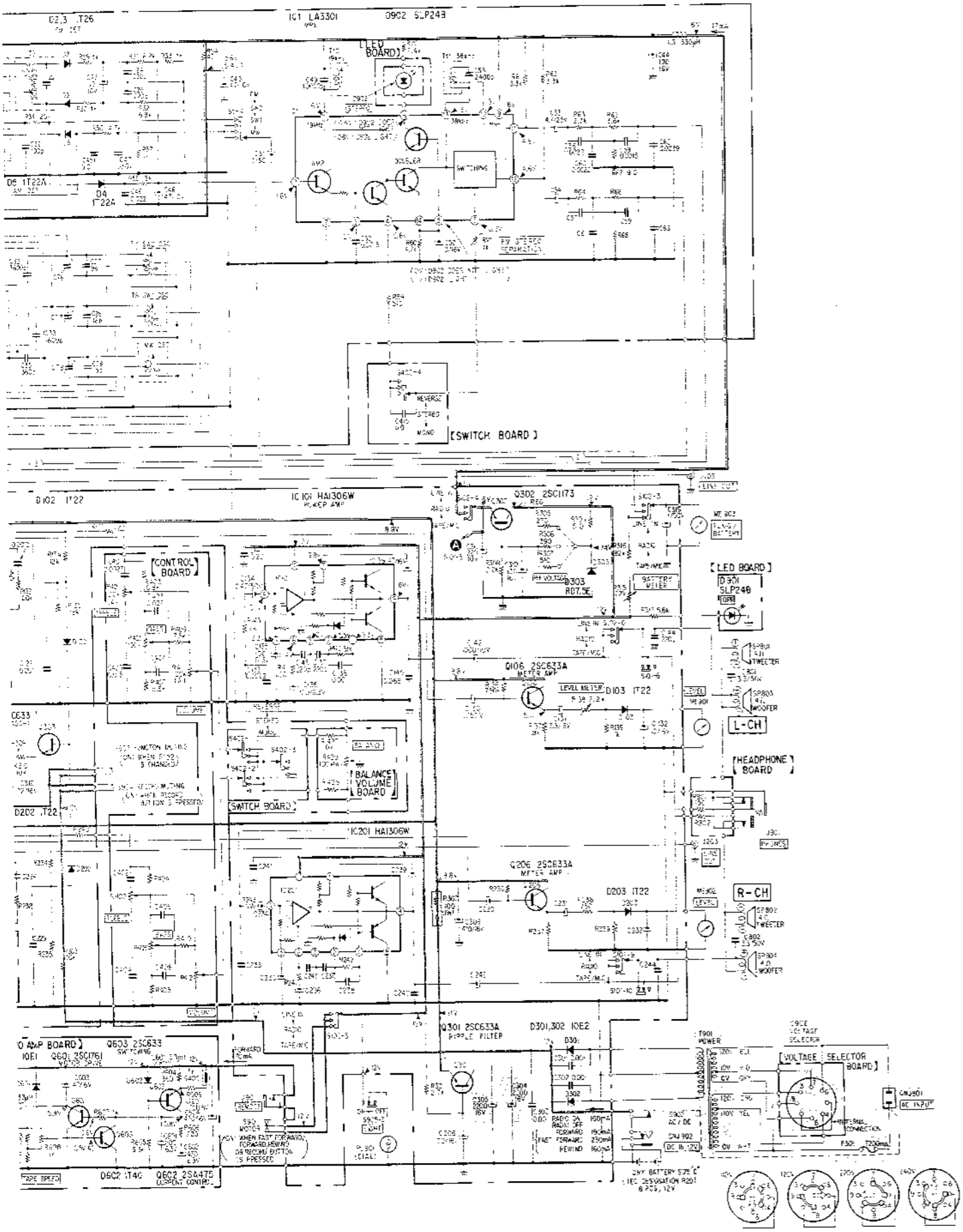
- part mounted on the conductor side.
- indicates side identified with part number.
- B+ pattern
- Signal Path
 - FM
 - L-CH } audio playback
 - R-CH }
- (F) : fusible resistor.
- Readings are taken under no-signal conditions with a VOM (20kΩ/V).
- () : RECORD
- < > : AM
- no mark : FM or PLAYBACK

Replacement Semiconductors
For replacement, use semiconductors except in ()

IC1: LA3301	Q601: 2SC1761	
IC101, 201: HA1306W	Q602: 3SB324 (2SA475)	
Q1, 8: 2SC930	D1: 2SC634A	
Q4-7, 9: 2SC710	D2, 3: 1T201	
	D4, 5: 1T22A	
	D101, 201, 602: 1S1555 (1T40)	
	D102, 103: 1T22A (1T22)	
	D202, 203, 304: 10E2	
	D301, 302: 10E2 (10E1)	
	D601: 10E2 (10E1)	
Q101, 201: 2SC632A (2SC631A)	D303: EQB01-08 (RD7.5E)	
Q103, 105: 2SC634A (2SC633A)		
Q106, 203: 2SC634A (2SC633A)		
Q205, 206, 301: 2SC632A (2SC631)		
Q104, 204: 2SC632A (2SC631)		
Q303, 603: 2SC634A (2SC633)		
Q102, 202: 2SC1364 (2SC633A)	D901, 902: SLP248	Q2, 3: 2SC1129 (2SC668)
Q302: 2SC1173		

Q	20	207, 204	203	205	102	103	04	05	203	206	106	3
IC												
D			20	10			304		202	03	203	10



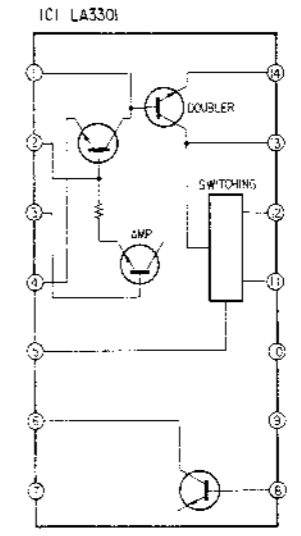
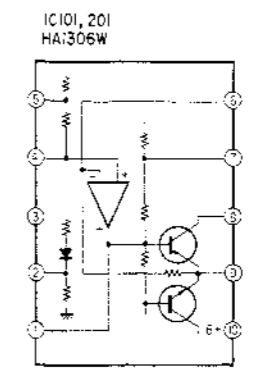


Note:

- Components for right channel have the same values as for left channel. Reference numbers are coded from 200.
- All capacitors are in μF unless otherwise noted. $\text{pF} = \mu\text{F} / 50$ WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted. $\text{k}\Omega = 1000\Omega$, $\text{M}\Omega = 1000 \text{k}\Omega$
- : fusible resistor.
- (N) : low-noise capacitor and resistor.
- Δ : internal component.
- : B+ bus.
- : panel designation.
- : adjustment for repair.
- Transistor is used for D1.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (20k Ω /V).
() : RECORD
< > : AM
no mark : FM or PLAYBACK
- AC voltage readings indicated by * in the bias oscillator circuit are taken with a VTVM.
- Transistor base-emitter voltages are measured on the 2.5V range.
- Total current is measured with no cassette installed.
- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S1	BAND SELECT	FM
S101	REC/PB	PB
S102	FUNCTION	TAPE/MIC
S401	TAPE SELECT	NORMAL
S402	MODE	STEREO
S901	MOTOR	OFF
S902	AC/DC	DC
S903	FUNCTION MUTING	OFF
S904	RECORD MUTING	OFF
S905-1,2	AFC/ISS	OFF
S905-3,4	LIGHT	OFF
S906	VOLTAGE SELECTOR	—

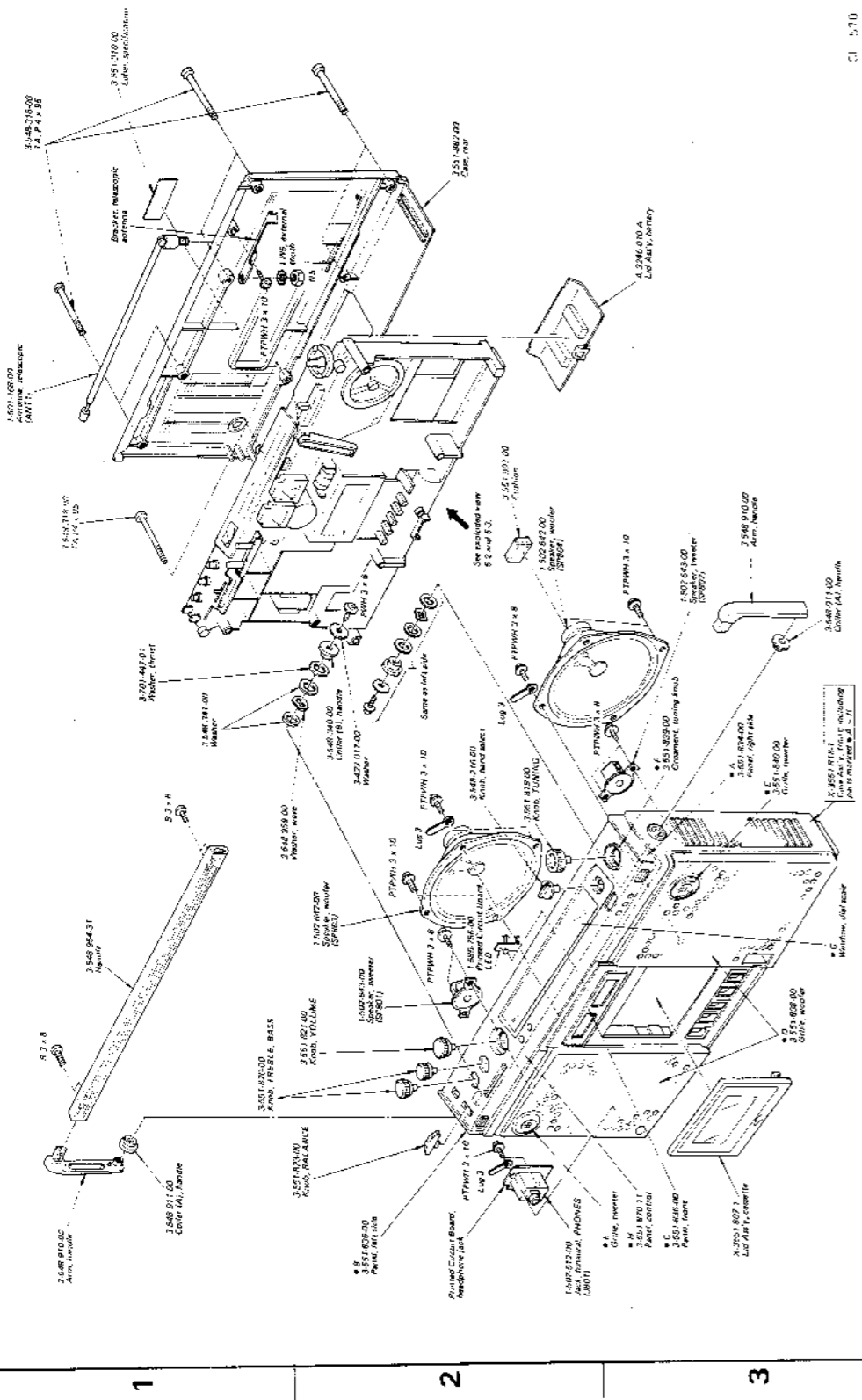
Note: The components identified by shading are critical for safety. Replace only with part number specified.



SECTION 5
EXPLODED VIEWS

5-1.

A B C D E

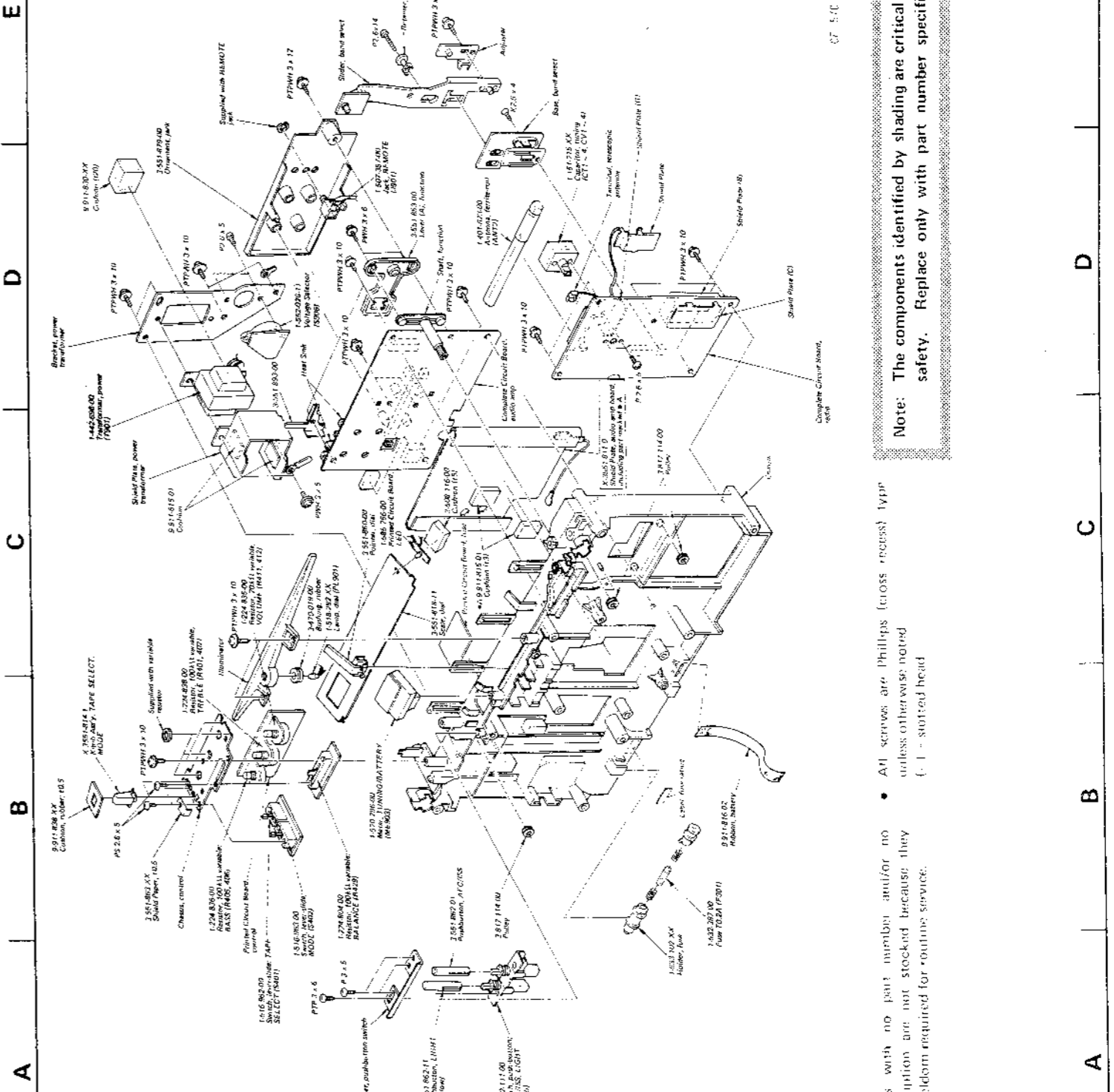


Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- (-) - slotted head

CF 570

5-2.



Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- (-) - slotted head

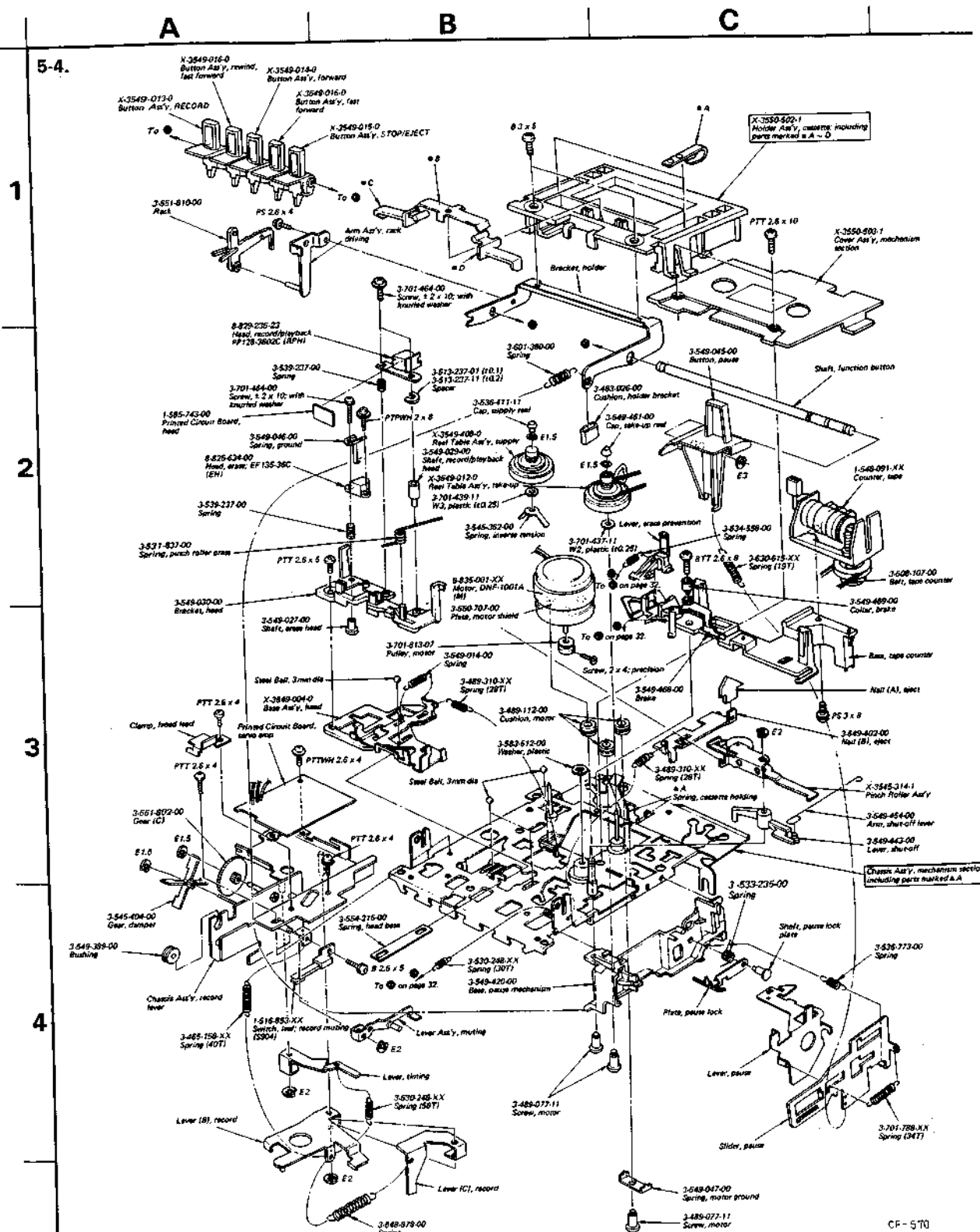
Note: The components identified by shading are critical for safety. Replace only with part number specified.

CF 570

A B C D E

51

5-4.



CF-570

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head
- (TT) shows the number of coils in spring.

**SECTION 6
ELECTRICAL PARTS LIST**

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
PRINTED CIRCUIT BOARDS			⇒D602		1S1555
	1-585-741-00	Audio Amp	D901,902		SLP24B
	1-585-743-00	Head			ICs
	1-585-756-00	LED	IC1		LA3301
			IC101,201		HA1306W
SEMICONDUCTORS			COILS		
Transistors			L1	1-425-632-00	FM RF
Q1		2SC930	L2	1-459-157-00	FM Osc
Q2,3		2SC1129	L3	1-407-175-XX	330μH, microinductor
Q4-7		2SC710	L4	1-407-178-XX	1μH, microinductor
Q8		2SC930	L101,201	1-407-879-00	33 mH, microinductor
Q9		2SC710	L601,602	1-407-484-00	3.3μH, microinductor
⇒Q101,201		2SC632A	TRANSFORMERS		
⇒Q102,202		2SC1364	T1	1-403-872-00	FM IFT
⇒Q103,203		2SC634A	T2	1-403-952-00	FM Discriminator, primary
⇒Q104,204		2SC632A	T3	1-403-953-00	FM Discriminator, secondary
⇒Q105,205		2SC634A	T4	1-404-041-00	AM IFT, detect stage
⇒Q106,206		2SC634A	T5	1-401-538-00	SW2 ANT
⇒Q301		2SC634A	T6	1-401-584-00	SW1 ANT
Q302		2SC1173	T7	1-405-740-00	SW2 Osc
⇒Q303		2SC634A	T8	1-405-739-00	SW1 Osc
Q601		2SC1761	T9	1-405-520-00	MW Osc
⇒Q602		2SB324	T10,11	1-425-956-00	MPX
⇒Q603		2SC634A	T12	1-403-144-00	AM IFT
Diodes			T101,201	1-427-420-00	Output
D1		2SC634A	T901	1-442-917-00	Power
D2,3		1T261	CF1,2	1-527-184-XX	Filter, ceramic; 10.7 MHz
D4,5		1T22A			
⇒D101,201		1S1555			
⇒D102,202		1T22A			
⇒D103,203		1T22A			
⇒D301,302		10E2			
⇒D303		EQB01-08			
⇒D304		1T22A			
⇒D601		10E2			

⇒ : Due to replacement parts, the values are different on the diagrams.

Note: The components identified by shading are critical for safety. Replace only with part number specified.

MF-570S

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
CAPACITORS					
All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. pF = $\mu\mu\text{F}$, elect = electrolytic					
C1,2	1-101-923-11	0.01	C45	1-161-013-11	0.01 (boundary layer)
C3	1-102-959-11	22p	C46	1-101-924-11	0.022
C4-6	1-101-923-11	0.01	C47	1-161-013-11	0.01 (boundary layer)
C7	1-102-513-11	18p	C48	1-121-352-11	47 10V elect
C8	1-102-504-11	4p	C49	1-103-749-11	0.01 polystyrol
C9	1-102-865-11	8p	C50	1-161-003-11	0.0015
C10	1-102-964-11	36p	C51	1-121-391-11	1 50V elect
C11	1-102-503-11	3p	C52	1-121-651-11	10 16V elect
C12	1-127-019-11	0.1 16V solid aluminum	C53,54	1-121-395-11	4.7 25V elect
C13	1-102-935-11	2p	C55	1-103-734-11	0.0024 50V polystyrol
C14-17	1-101-923-11	0.01	C56,57	1-161-005-11	0.0022 (boundary layer)
C18	1-121-479-11	22 16V elect	C58,59	1-161-003-11	0.0015 (boundary layer)
C19	1-101-924-11	0.022	C60,61	1-161-005-11	0.0022 (boundary layer)
C20	1-101-923-11	0.01	C62,63	1-161-008-11	0.0039
C21	1-101-924-11	0.022	C64	1-102-935-11	2p
C22	1-102-973-11	100p	C101,201	1-127-019-11	0.1 16V solid aluminum
C23	1-121-651-11	10 16V elect	C102,202	1-121-395-11	4.7 25V elect
C24,25	1-102-978-11	220p	C103,203	1-107-073-11	33p silvered mica
C26	1-102-935-11	2p	C104,204	1-101-918-11	0.001
C27	1-102-945-11	8p	C106,206	1-121-391-11	1 50V elect
C28	1-102-953-11	18p	C107,207	1-121-414-11	100 10V elect
C29	1-102-951-11	15p	C108,208	1-121-726-11	0.47 50V elect
C30	1-102-945-11	8p	C109,209	1-102-074-11	0.001
C31	1-102-944-11	7p	C110,210	1-121-726-11	0.47 50V elect
C32	1-103-738-11	0.0036 50V polystyrol	C111,211	1-121-651-11	10 16V elect
C33	1-103-730-11	1600p 50V polystyrol	C112,212	1-121-415-11	100 16V elect
C34	1-102-944-11	7p	C113,213	1-101-918-11	0.001
C35	1-107-231-11	360p silvered mica	C114,214	1-121-651-11	10 16V elect
C36,37	1-101-924-11	0.022	C115,215	1-107-085-11	100p silvered mica
C38	1-101-923-11	0.01	C116,216	1-121-414-11	100 6.3V elect
C39	1-101-924-11	0.022	C117,217	1-121-651-11	10 16V elect
C40	1-161-013-11	0.01 (boundary layer)	C118,218	1-121-352-11	47 10V elect
C41,42	1-101-923-11	0.01	C119,219	1-161-001-11	0.001 (boundary layer)
C43	1-121-409-11	47 16V elect	C120,220	1-161-017-11	0.022 (boundary layer)
C44	1-121-971-11	100 16V elect	C121,221	1-107-073-11	33p silvered mica
			C122,222		
			C123,223	1-161-001-11	0.001 (boundary layer)
			C124,224	1-161-002-11	0.0012 (boundary layer)
			C126,226	1-107-083-11	82p silvered mica
			C127,227	1-107-069-11	22p silvered mica
			C128,228	1-107-075-11	39p silvered mica

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	
C129,229	1-102-074-11	0.001	
C130,230	1-121-391-11	1	50V elect
C131,231	1-121-392-11	3.3	25V elect
C132,232	1-121-651-11	10	16V elect
C133,233	1-161-005-11	0.0022	(boundary layer)
C134,234	1-121-726-11	0.47	50V elect
C135,235 C136,236	1-121-414-11	100	6.3V elect
C137,237	1-102-110-11	220p	
C138,238	1-161-001-11	0.001	(boundary layer)
C139,239	1-121-409-11	47	16V elect
C140,240	1-108-249-12	0.068	mylar
C141,241	1-108-254-12	0.022	mylar
C142,242	1-121-943-11	1000	10V elect
C143,243	1-107-253-11	15+18+22+27p	500V silvered mica
C144-146 C244-246	1-102-110-11	220p	
C301-303	1-101-918-11	0.001	
C304,305	1-123-070-11	2200	16V elect
C306	1-121-415-11	100	16V elect
C308	1-121-392-11	3.3	25V elect
C309	1-121-940-11	470	16V elect
C310	1-121-415-11	100	16V elect
C311	1-123-072-11	220	10V elect
C312	1-129-702-11	0.001	630V polyethylene
C313	1-107-181-11	330p	500V silvered mica
C314	1-107-188-11	620p	500V silvered mica
C315	1-107-200-11	430p	500V silvered mica
C316,317	1-121-479-11	22	16V elect
C318	1-121-402-11	33	10V elect
C319	1-121-391-11	1	50V elect
C401,402	1-161-006-11	0.0027	(boundary layer)
C403,404	1-161-015-11	0.015	(boundary layer)
C405,406	1-161-018-11	0.027	(boundary layer)
C407,408	1-108-251-11	0.1	mylar
C415	1-101-181-11	0.01	
C601	1-121-414-11	100	6.3V elect
C602	1-123-077-11	470	6.3V elect

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	
C603	1-121-409-11	47	16V elect
C604	1-121-352-11	47	10V elect
C801,802	1-119-426-11	3.3	50V elect
CT1-3 CV1-4 CT4-8	1-151-239-00 1-141-171-XX		Tuning Trimmer

RESISTORS

All resistors are in ohms. Common 1/4W carbon resistors are omitted. Check schematic diagram for values.

R127,227	1-224-642-XX	1 k, adjustable
R138	1-224-643-XX	2.2 k, adjustable
R213	1-224-648-XX	100 k, adjustable
R302	1-213-084-11	100 1W fusible
R315	1-224-646-XX	22 k, adjustable
R401,402	1-224-838-00	100 k, variable; TREBLE
R405,406	1-224-836-00	100 k, variable; BASS
R411,412	1-224-835-00	20 k, variable; VOLUME
R429	1-224-804-00	100 k, variable; BALANCE
R608	1-224-642-XX	1 k, adjustable
RV1	1-224-642-XX	1 k, adjustable

SWITCHES

S1	1-514-316-00	Slide, BAND SELECT
S101	1-552-113-00	Slide, record/playback
S102	1-552-112-00	Slide, FUNCTION
S401	1-516-962-00	Lever, slide; TAPE SELECT
S402	1-516-963-00	Lever, slide; MODE
S901	1-516-944-00	Leaf, motor
S903	1-516-853-XX	Leaf, function; muting
S904	1-516-853-XX	Leaf, function; record muting
S905	1-552-111-00	Pushbutton, AFC/ISS LIGHT
S906	1-552-026-00	Voltage Select

Note: The components identified by shading are critical for safety. Replace only with part number specified.

IF-570S

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
JACKS			EH	8-825-634-00	Head, erase; EF135-36C
J101,201	1-507-450-00	MIC	F301	1-532-387-00	Fuse T0.2A
J102,202, J103,203	1-507-451-00	LINE IN / LINE OUT	M	8-835-001-XX	Motor, DNF-1001A
J801	1-507-512-00	PHONES	ME901,902	1-520-297-00	Meter, level
J901	1-507-357-00	REMOTE	ME903	1-520-296-00	Meter, tuning
CNJ901	1-509-510-00	Connector, 2-p AC INPUT	MIC101,201	8-814-196-53	Microphone, electret condenser; C-1004S
CNJ902	1-507-261-XX	DC IN 12V	PL901	1-518-282-XX	Lamp, pilot
MISCELLANEOUS			RPH	8-829-236-23	Head, record / playback; PP128-3602C
ANT1	1-501-168-00	Telescopic antenna, FM, SW	SP801,802	1-502-643-00	Speaker, tweeter
ANT2	1-401-672-00	Ferrite rod antenna	SP803,804	1-502-642-00	Speaker, woofer
CP1	1-231-286-00	Filter		1-533-102-XX	Holder, fuse
CP301	1-464-025-00	Bias Osc Unit			

ACCESSORIES & PACKING MATERIALS

<u>Part No.</u>	<u>Description</u>
X-3551-821-1	Manual, instruction (E1 model)
X-3701-105-1	Tips Ass'y, cleaning
1-534-840-XX	Cord, power DK-38 (E1 model)
1-551-235-00	Cord, power; 2-p (E2 model)
3-551-880-00	Cushion (right)
3-551-881-00	Cushion (left)
3-551-892-00	Plate, stopper
3-551-895-00	Bag, protection
3-551-914-00	Carton (E1 model)
3-551-915-00	Carton (E2 model)
3-701-632-00	Bag, plastic
3-770-349-51	Manual Instruction (E2 model)
3-770-828-11	Card, caution; cassette
8-893-511-00	Tape, demonstration; CD-803

Note: The components identified by shading are critical for safety. Replace only with part number specified.

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