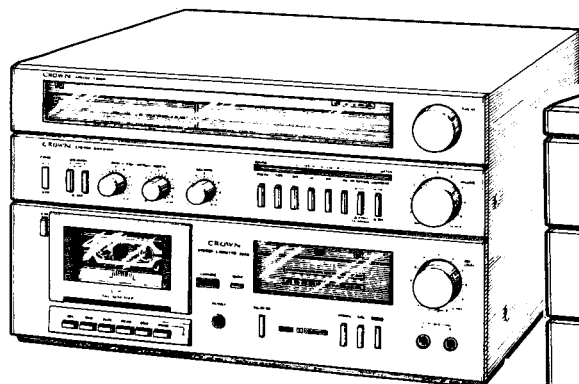


# SERVICE MANUAL



# CCS-1000 SERIES

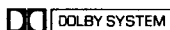
CCS-1000F(X), L(E), (UK), (GE)  
CCS-1010F(X), L(E), (UK), (GE), (FR)



CCS-1010



CCS-1000



Noise reduction circuit made under licence from  
Dolby Laboratories.

## Integrated Component System

## SPECIFICATIONS

### ■ RADIO SECTION

Frequency Range .....LW: 150 kHz ~ 300 kHz  
MW: 525 kHz ~ 1605 kHz  
SW: 6 MHz ~ 18 MHz F (X)  
FM: 87.5 MHz ~ 108 MHz

IF .....455 kHz  
470 kHz L (UK)

Usable Sensitivity .....LW: 1000  $\mu$ V/m  
MW: 500  $\mu$ V/m  
SW: 500  $\mu$ V/m F (X)  
FM: 4  $\mu$ V

FM MPX Separation.....30 dB

### ■ PHONO SECTION (CCS-1000)

Phono Motor .....Belt Drive, Auto Return  
Turntable Speed .....33-1/3 rpm  
45 rpm  
Wow and Flutter .....Less than 0.25% (JIS, WRMS)  
S/N.....More than 25 dB  
Frequency Response .....100 Hz ~ 10 kHz  $\pm$  6 dB  
Stylus Pressure.....3.2  $\pm$  0.7 g  
Output Voltage.....2.0 mV ~ 4 mV (1 kHz)

### ■ TAPE RECORDER SECTION

Record System.....AC Bias 4 track 2-channel stereo  
Erase System .....AC Erase  
Tape Speed.....4.76 cm/sec.  $\pm$  2.0%  
Wow and Flutter .....0.08% (JIS, WRMS)  
FF/REW Time .....Within 100 sec. (C-60)

### ■ AMPLIFIER SECTION

Rated Output Power .....16 W  $\times$  2 (T.H.D. = 1%)  
Frequency Response .....40 Hz ~ 16 kHz  $\pm$  1.5 dB  
Input Sensitivity.....AUX: 500mV/470 k $\Omega$   
Tone Effect.....Bass at 100 Hz  $\pm$  6 dB  
Treble at 10 kHz  $\pm$  6 dB

### ■ OTHER SECTION

Power Source.....AC 117/220 V F (X)  
AC 220 V L (E), (GE)  
AC 240 V L (UK)  
Dimensions.....44.0(W)  $\times$  39.1(H)  $\times$  34.2(D) cm, C CS-1000  
44.0(W)  $\times$  39.1(H)  $\times$  25.0(D) cm, C CS-1010  
Weight.....10.4 kg. CCS-1000  
8.0 kg. CCS-1010

**CROWN RADIO CORP. JAPAN**

TOKYO · OSAKA · SAN FRANCISCO · PANAMA · DÜSSELDORF · LONDON

## DISASSEMBLY

### 1. Removal of Cassette Holder

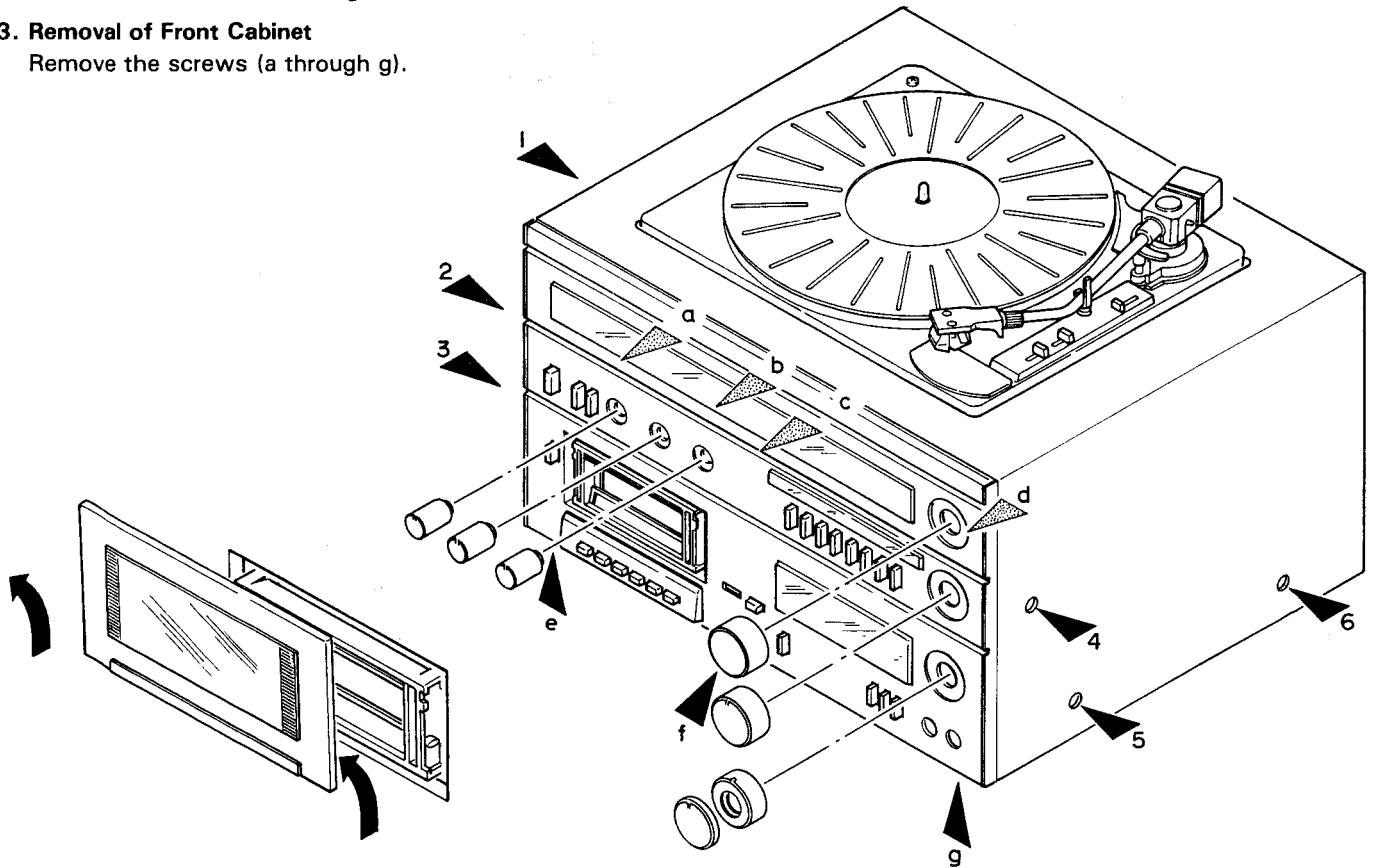
Press the eject button to open the cassette holder and push it in the arrow direction. The cassette holder will be removed.

### 2. Removal of Top Cabinet

Remove the screws (1 through 6).

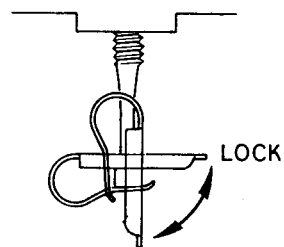
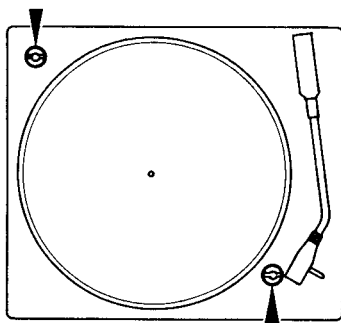
### 3. Removal of Front Cabinet

Remove the screws (a through g).



### 4. Removal of Record Player

Undo a lock plate of the Transit Screws..



# ELECTRICAL ADJUSTMENT

## 1. AM Alignment CCS-1000,1010F (X)

- Set the internal modulation signal generator to 30%, 400 Hz of each.
- Use only nonmetallic alignment tools to insure proper alignment.

Adjustment	Equipment Connection	Step No.	Generator Frequency	Tuning	Location to be Adjusted	
IF	<ul style="list-style-type: none"> <li>● AM Signal generator</li> <li>● Sweep/marker generator</li> <li>● Oscilloscope</li> <li>● AC voltmeter</li> <li>● Loop antenna</li> <li>● Load resistance</li> <li>● Dummy antenna</li> <li>● Frequency counter</li> </ul> Connect measuring instruments as shown in Fig. 1 and 2.	1	455 kHz		AM, IFT-2, 3, 4 Adjustment for maximum. Fig. 1.	
		2	Repeat Steps to obtain Maximum Output.			
MW Band		3	505 kHz (Mod.)	505 kHz	Set generator frequency to 505 kHz with L-9 (MW oscillator coil). Fig. 2.	
		4	1650 kHz (Mod.)	1650 kHz	Set generator frequency to 1650 kHz with TC-5 (Trimmer condenser).	
MW Tracking		5	Repeat Steps 3 and 4 two or three times to adjust f. cover.			
		6	610 kHz (Mod.)	610 kHz	Adjust L-11 (Bar antenna) to obtain maximum sensitivity. Fig. 2.	
		7	1400 kHz (Mod.)	1400 kHz	Adjust TC-6 (Trimmer condenser) so to obtain maximum sensitivity.	
		8	Repeat Steps 6 and 7 two or three times to obtain maximum sensitivity.			
SW Band		9	5.85 MHz (Mod.)	5.85 MHz	Set generator frequency to 5.85 MHz with L-8 (Oscillator coil).	
		10	18.5 MHz (Mod.)	18.5 MHz	Set generator frequency to 18.5 MHz with TC-3 (Trimmer condenser).	
		11	Repeat Steps 9 and 10 two or three times to adjust f. cover.			
SW Tracking		12	7.0 MHz (Mod.)	7.0 MHz	Adjust L-10 (Bar antenna) to obtain maximum sensitivity.	
		13	16.0 MHz (Mod.)	16.0 MHz	Adjust TC-4 (Trimmer condenser) so to obtain maximum sensitivity.	
		14	Repeat Steps 12 and 13 two or three times to obtain maximum sensitivity.			

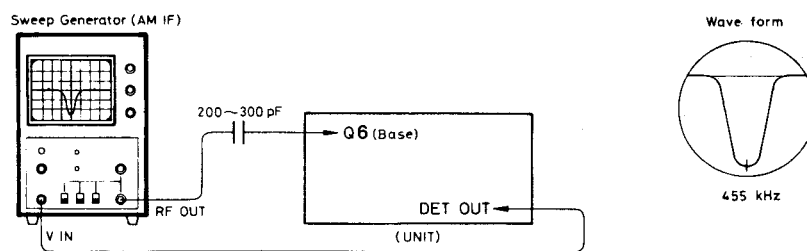


Fig. 1

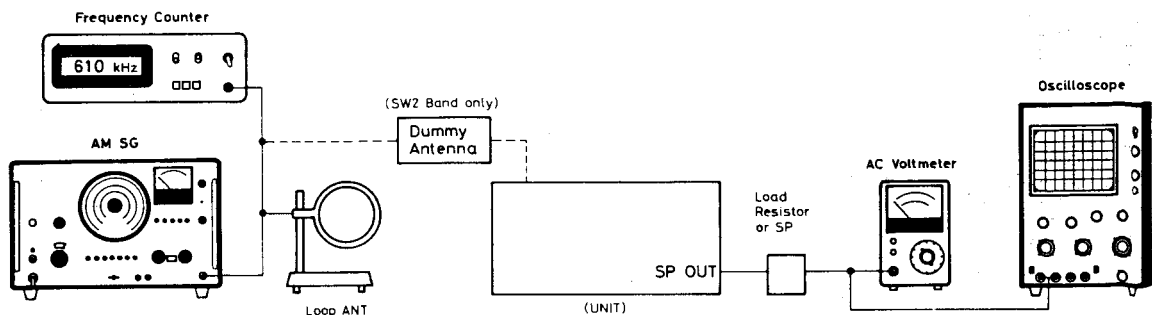


Fig. 2

# ELECTRICAL ADJUSTMENT

## 2. AM Alignment CCS-1000, 1010L (E), (UK), (GE)

Adjustment	Equipment Connection	Step No.	Generator Frequency	Tuning	Location to be Adjusted	
IF	<ul style="list-style-type: none"> <li>● AM Signal generator</li> <li>● Sweep/marker generator</li> <li>● Oscilloscope</li> <li>● AC voltmeter</li> <li>● Loop antenna</li> <li>● Load resistance</li> <li>● Dummy antenna</li> <li>● Frequency counter</li> </ul> Connect measuring instruments as shown in Fig. 1 and 2.	1	455 kHz 470 kHz (UK)		AM, IFT-2, 3, 4 Adjustment for maximum. Fig. 1.	
		2	Repeat Steps to obtain Maximum Output.			
MW Band		3	505 kHz (Mod.)	505 kHz	Set generator frequency to 505 kHz with L-8 (MW oscillator coil). Fig. 2.	
		4	1650 kHz (Mod.)	1650 kHz	Set generator frequency to 1650 kHz with TC-3 (Trimmer condenser).	
		5	Repeat Steps 3 and 4 two or three times to adjust f. cover.			
MW Tracking		6	610 kHz (Mod.)	610 kHz	Adjust L-10 (Bar antenna) to obtain maximum sensitivity. Fig. 2.	
		7	1400 kHz (Mod.)	1400 kHz	Adjust TC-4 (Trimmer condenser) so to obtain maximum sensitivity.	
		8	Repeat Steps 6 and 7 two or three times to obtain maximum sensitivity.			
LW Band		9	145 kHz (Mod.)	145 kHz	Set generator frequency to 145 kHz with L-9 (Oscillator coil).	
		10	310 kHz (Mod.)	310 kHz	Set generator frequency to 310 kHz with TC-5 (Trimmer condenser).	
		11	Repeat Steps 9 and 10 two or three times to adjust f. cover.			
LW Tracking		12	180 kHz (Mod.)	180 kHz	Adjust L-11 (Bar antenna) to obtain maximum sensitivity.	
		13	280 kHz (Mod.)	280 kHz	Adjust TC-6 (Trimmer condenser) so to obtain maximum sensitivity.	
		14	Repeat Steps 12 and 13 two or three times to obtain maximum sensitivity.			

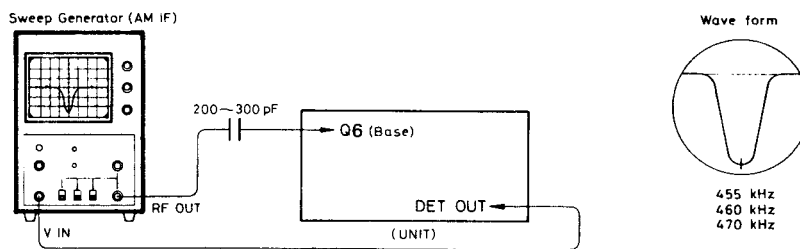


Fig. 1

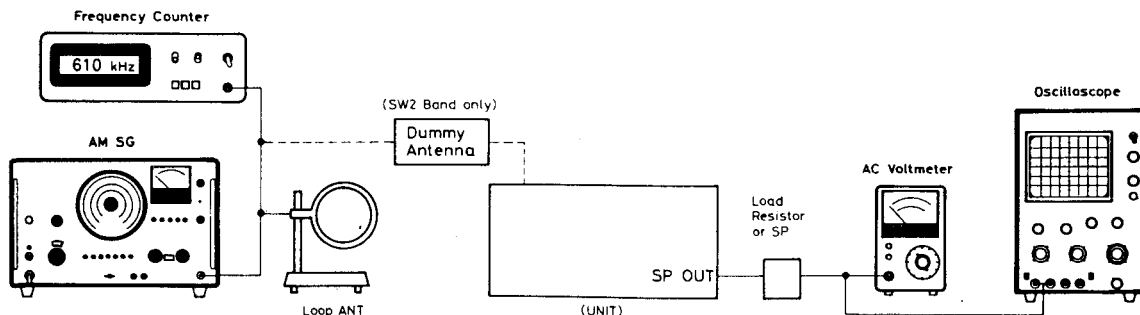


Fig. 2

### 3. FM Alignment

Adjustment	Equipment Connection	Step No.	Generator Frequency	Tuning	Location to be Adjusted
IF	<ul style="list-style-type: none"> <li>● FM Signal generator</li> <li>● FM Sweep/marker generator</li> <li>● Oscilloscope</li> <li>● AC voltmeter</li> <li>● Dummy antenna</li> <li>● Load resistance</li> <li>● Frequency counter</li> </ul> Connect measuring instruments as shown in Fig. 3 and 4.	1	10.7 MHz (Mod.)		FM, IFT-1, 5 adjust for maximum gain. IFT-1, 5 adjust for symmetric "S" curve (Marker should appear in the middle of "S" curve). Fig. 3.
		2	Repeat Steps to obtain Maximum Output.		
FM Band		3	87 MHz (Mod.)	87 MHz	Set generator frequency to 87 MHz with L-3 (FM oscillator coil). Fig. 4.
		4	108.5 MHz (Mod.)	108.5 MHz	Set generator frequency to 108.5 MHz with TC1 (Trimmer condenser).
		5	Repeat Steps 3 and 4 two or three times to adjust f. cover.		
FM Tracking		6	90 MHz (Mod.)	90 MHz	Adjust L-1 (FM, Tuning coil) to obtain maximum sensitivity. Fig. 4.
		7	106 MHz (Mod.)	106 MHz	Adjust TC-2 (Trimmer condenser) to obtain maximum sensitivity.
		8	Repeat Steps 6 and 7 two or three times to obtain maximum sensitivity.		

○ Use only nonmetallic alignment tools to insure proper alignment.

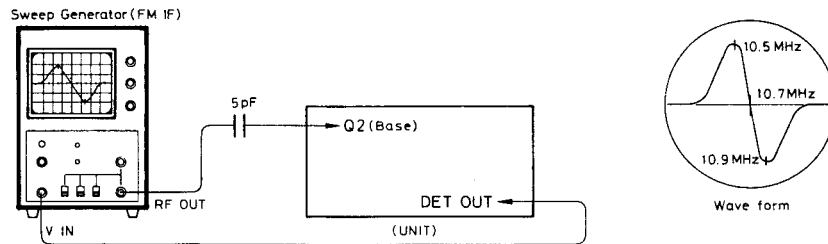


Fig. 3

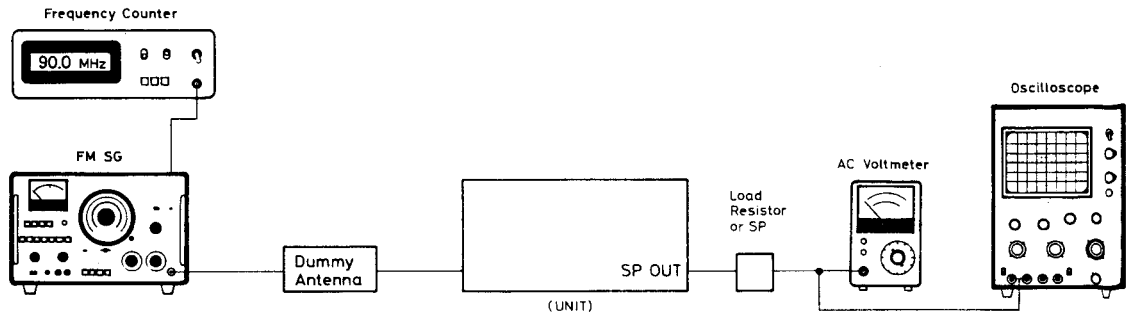


Fig. 4

#### 4. FM MPX Adjustment

Connect test instrument as shown in Fig. 5.

##### 1) 19 kHz Adjustment

Connect frequency counter T.P (U2 No. 12 pin) and earth, adjust the semi-fixed resistor VR1 for reading of 19 kHz on the counter.

**Note:** When adjusting 19 kHz in the multiplex circuit, connect a capacitor (0.022  $\mu$ F) to U2 No. 2 pin to shut off the signal and noise.

##### 2) Separation Adjustment

a) Set the FM signal generator to 98 MHz and an output of 1 mV (60 dB).

b) Set the stereo signal generator to 90% main signal and 10% pilot signal. Modulation frequency: 400 Hz.

c) Switch the stereo signal to left (or right) and adjust the semi-fixed resistor VR2 to minimize the right (or left) output.

**Note:** Adjust VR2 until more than 30 dB separation is obtained between the left and right channels.

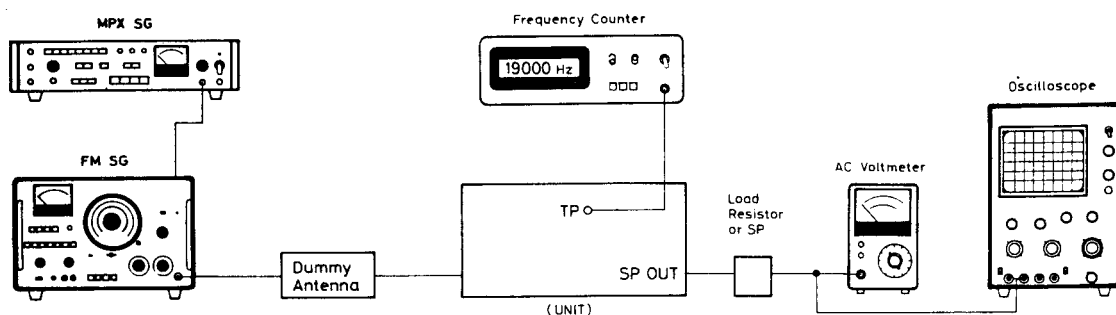


Fig. 5

#### 5. Playback Gain, LED Level Meter Adjustment

Set the Dolby switch to OFF. The tape selector switch should be set to the normal position and play a standard tape (MTT-150) 200 PWb (400 Hz). Adjust the semi-fixed resistors VR101 (R), VR201 (L) until the PT40 (L), PT39 (R) output voltage reaches 580 mV, and adjust semi-fixed resistors VR601 (R) and VR701 (L) for the LED lights to 7 th (0 VU).

#### 6. Recording Level Adjustment

Set the Dolby switch to OFF, and turn the record volume controls to maximum position. The tape selector switch should be set to the normal position and apply input signal of 0 VU (LED Level Meter),  $f = 1$  kHz, to AUX IN.

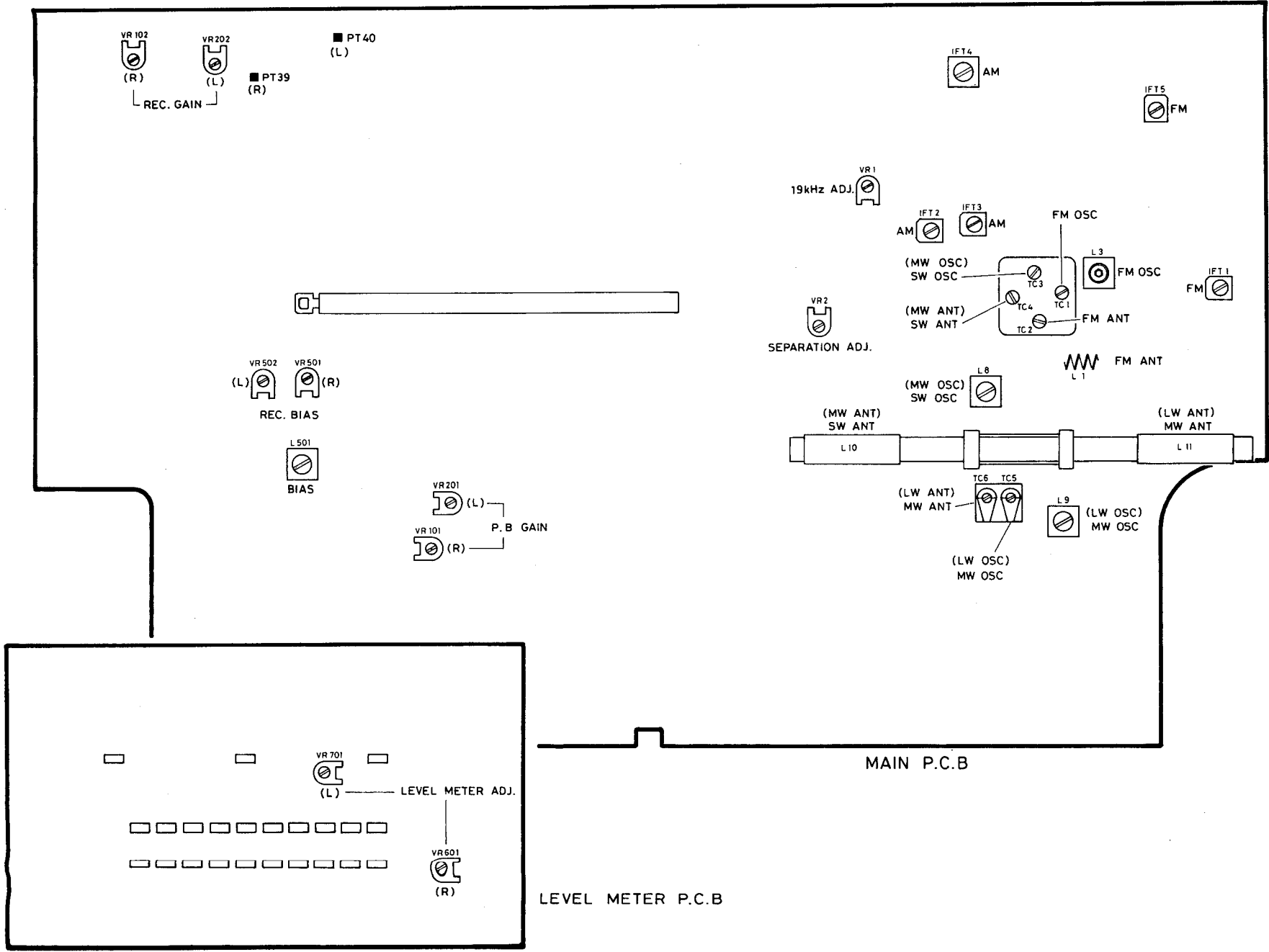
Play this recorded tape and adjust semi-fixed resistors VR102 (R) and VR202 (L) for the Level meters indicates 0 VU.

**Note:** VR102 and VR202 are used for recording sensitivity adjustment only, and have no effect playback output.

#### 7. Recording Bias Adjustment

Set the Dolby switch to OFF, and turn the record volume controls to maximum position. The tape selector switch should be set to the METAL position and apply input signal of  $-75$  dB ( $-25$  dB LED Level Meter),  $f = 1$  kHz, 15 kHz, to MIC IN. And adjust semi-fixed resistors VR501 (R), VR502 (L) so that the 15 kHz level reaches 2 dB ( $-27$  dB LED Level Meter) lower than 1 kHz level ( $-25$  dB LED Level Meter) at playback of this recorded tape.

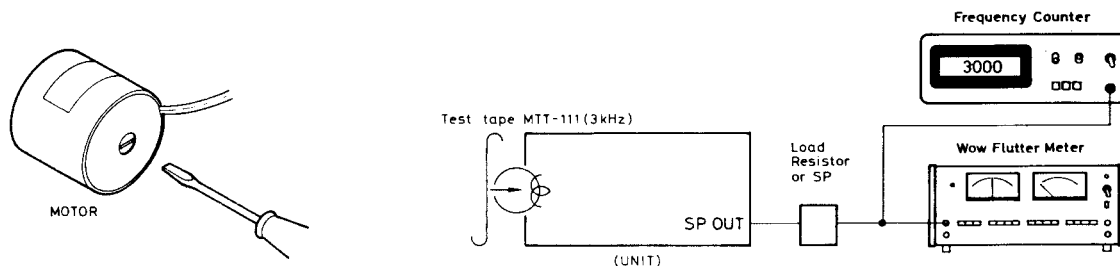
ADJUSTMENT POINTS



## MECHANICAL ADJUSTMENT

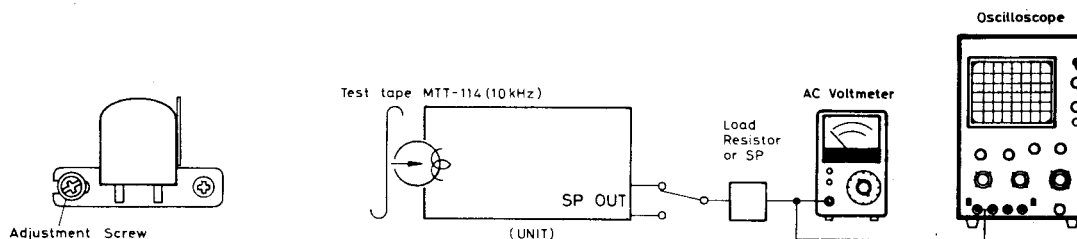
### 1. Tape Speed Adjustment

Operate the unit for 2 minutes in playback mode. Then connect a frequency counter to SP OUT, play a standard tape ( $f = 3 \text{ kHz}$ ). Insert a screwdriver through the adjusting hole on the motor and adjust the semi-fixed resistor until the frequency counter reads 3 kHz.



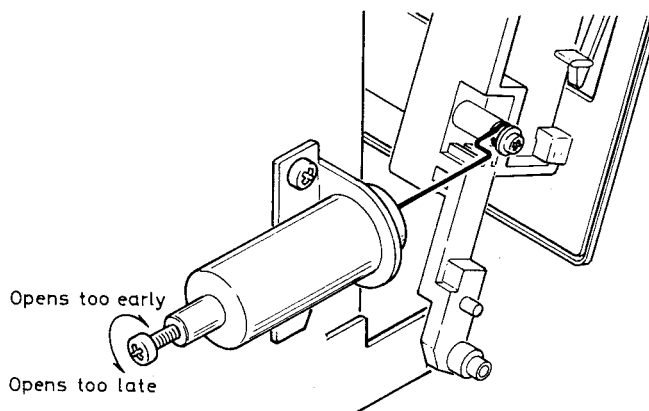
### 2. Head Azimuth Adjustment

With AC. V.M. connected to L and R channels SP OUT, play a standard tape (10 kHz, -10 dB). Turn the head azimuth adjusting screw for a maximum and same reading on L and R channels AC. V.M. After the adjustment, secure the screw with a locking paint.



### 3. Damper Adjustment

When the cassette door opens too early, turn the adjusting screw clockwise. When it opens too late, turn the screw counterclockwise. See the figure below.



### 4. Take-up Torque

40 ~ 70 g-cm

Measure on the take-up reel platform operating in play. If less than 40 g-cm, check to see if it is caused by slippage between the reel platform and the play idler.

- (1) If found to be slipping, wipe and clean the rubber portion of the play idler, take-up reel platform, clutch pulley, drive belt using alcohol.
- (2) If the reel platform itself is the cause of the slippage replace the reel platform.

### Tape Head Demagnetization

The tape head may be magnetized if a magnetized tool is brought close to it or the tape deck is used for an extended period of time. When the head is magnetized, the result is a loss of high frequency or an increase of noise in tape. Magnetized tape head should be demagnetized by using a head demagnetizer.



## PLAYER ADJUSTMENT

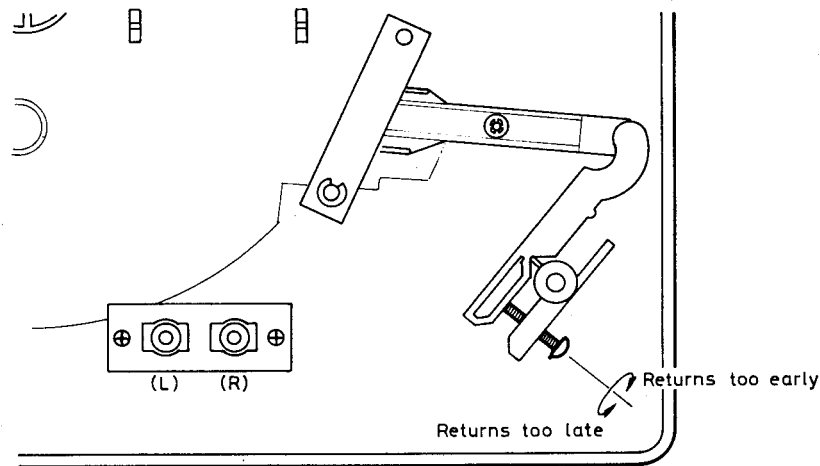
### Precautions for Repair

- 1) When the player unit is fixed with clamping screws, turn the screws clockwise and the unit will float on the suspension springs on the four corners.
- 2) Release the pickup clasper.
- 3) Set the auto mechanism in the regular position by rotating the turntable about 5 turns by hand.

**Note:** When the pickup arm is moved toward the turntable and if it tends to return to the arm rest, wait until it returns completely. This is caused when the pickup arm driving unit is not properly positioned with respect to the auto mechanism.

### Adjustment of Auto Return Position

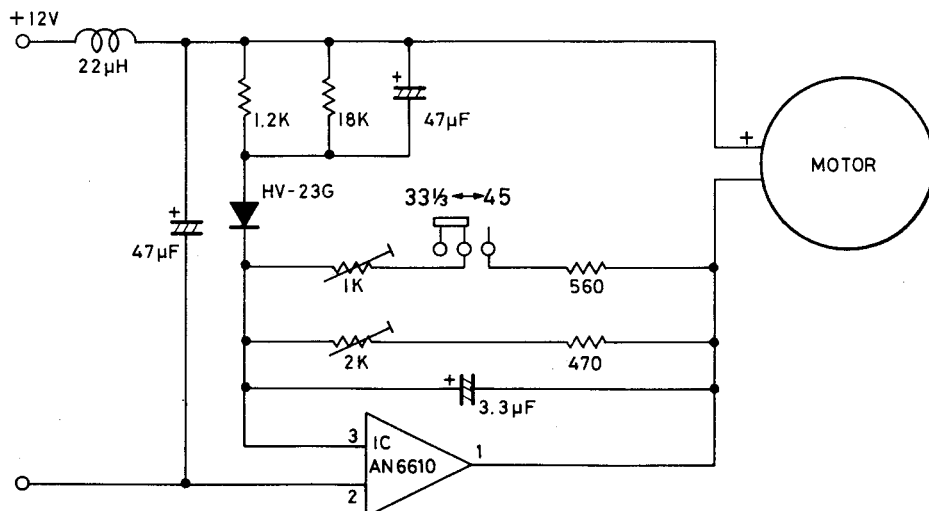
When the pickup arm returns too early, turn the adjusting screw clockwise. When it returns too late, turn the screw counter-clockwise. See the figure below.



### Operation Check after Repair

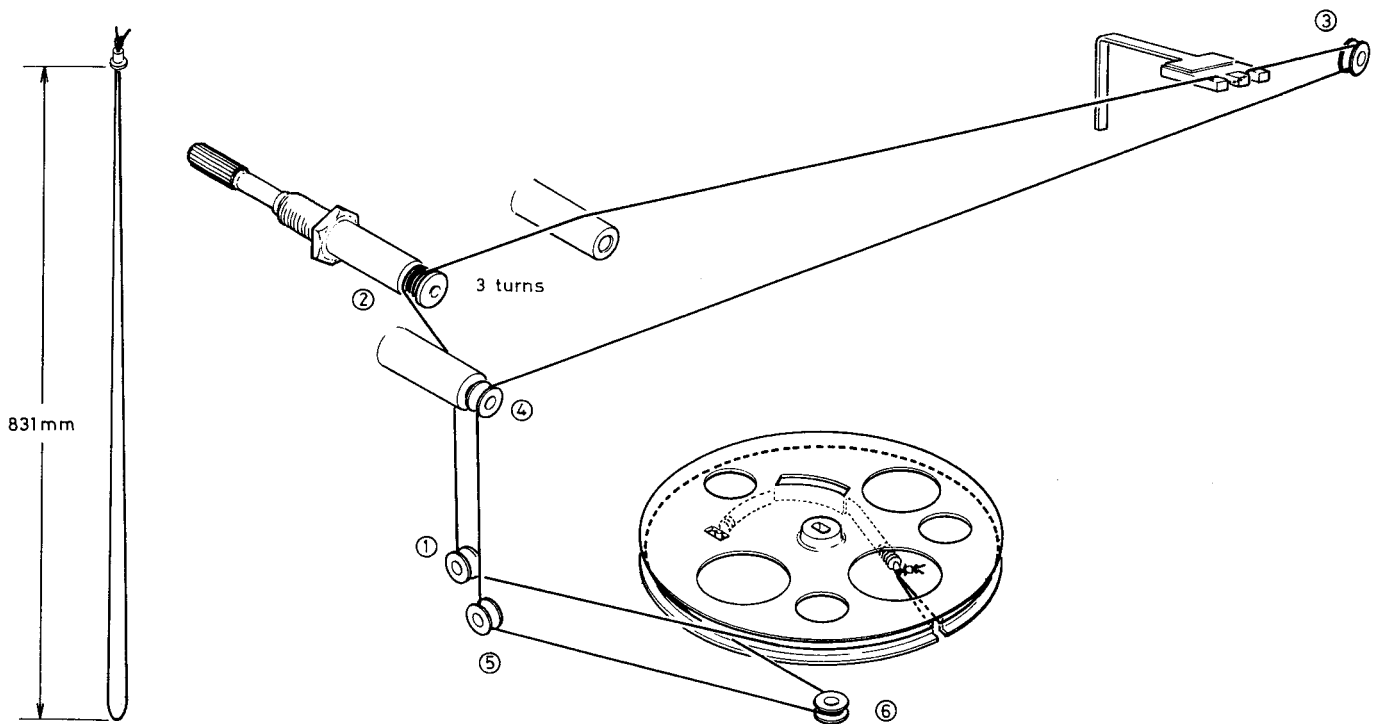
Move the cueing lever of the player unit away from you and swing the pickup arm over the record. Then move the cueing lever toward you. The record will now start playing. At the end of the record, the pickup arm returns automatically to the arm rest and the power switch of the player unit turns OFF.

## SPEED CONTROL CIRCUIT



## DIAL CORD STRINGING

- 1) Insert both ends of the dial cord into the grommet. Tie the ends together so that a loop is formed. Secure the dial cord by crashing the grommet. Thread the dial cord through the coil spring.
- 2) Arrange the dial cord in the numerical order while holding one end of the cord, then engage the coil spring as shown.

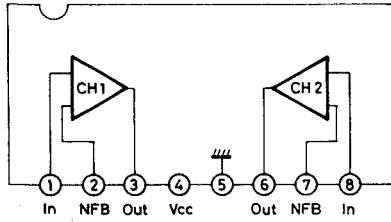


## TRANSISTORS AND IC

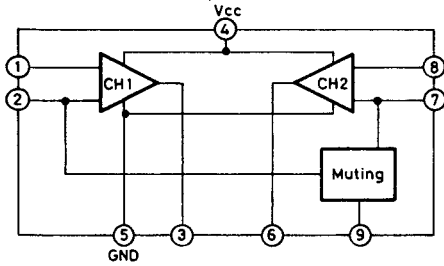
2SC 1173 2SD 880	2SC 711 1312	2SC 460 535 1342	BA 328	TA 7325P	HA 11211 BA 1320 NE 646B	LB 1416

# IC BLOCK DIAGRAM

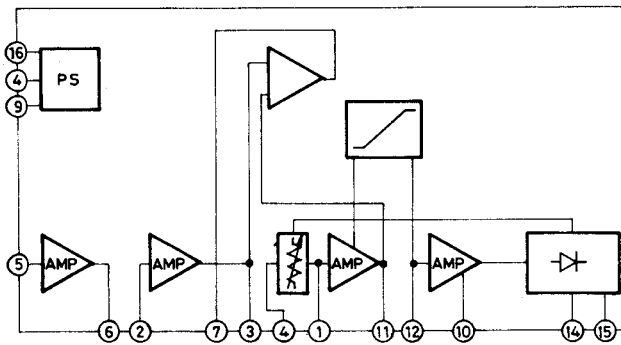
BA 328 (Pre-Amp IC)



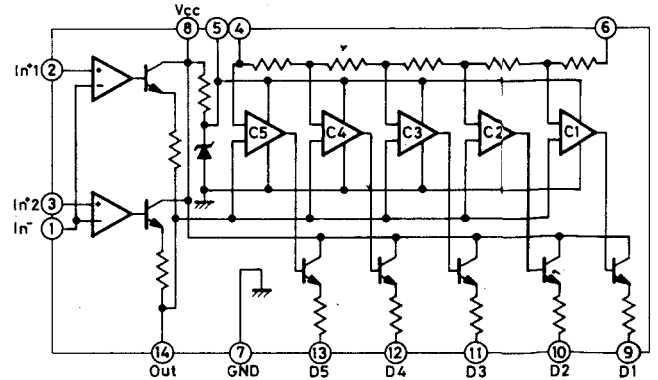
TA7325 (Pre-Amp IC)



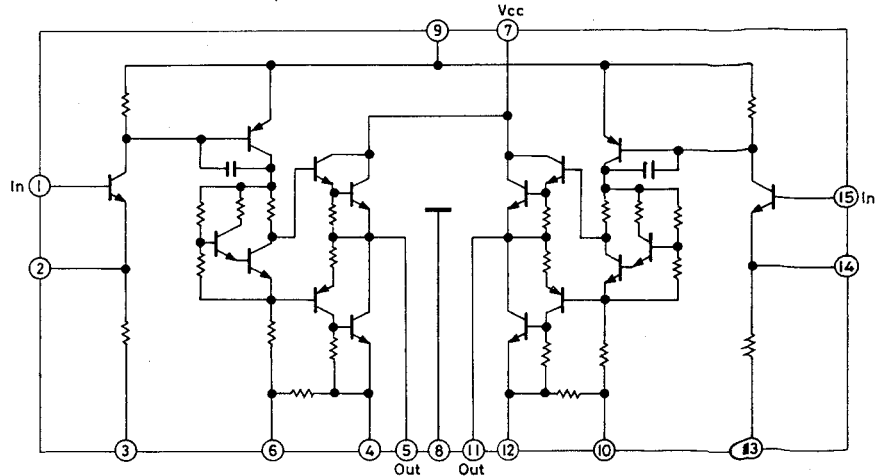
NE646B (Dolby NR IC)



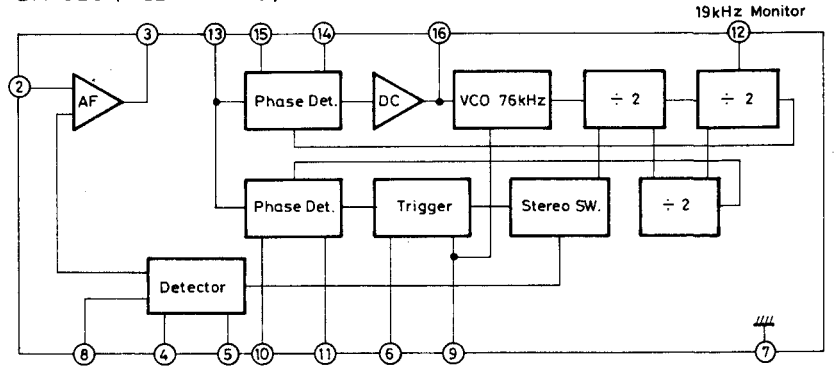
LB1416 (LED Drive IC)



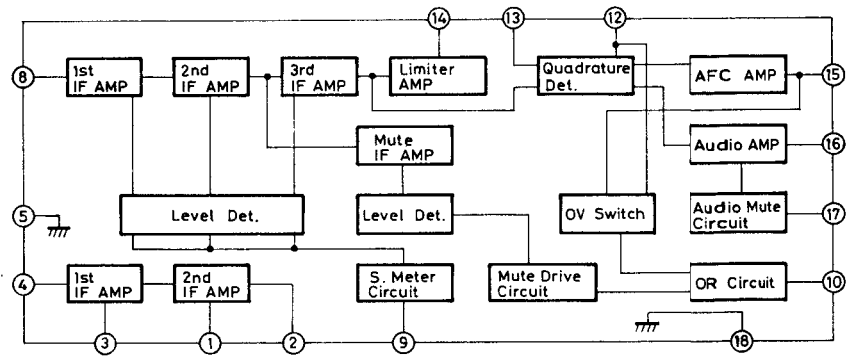
STK 441 (Power Amp IC)



BA1320 (PLL MPX. IC)

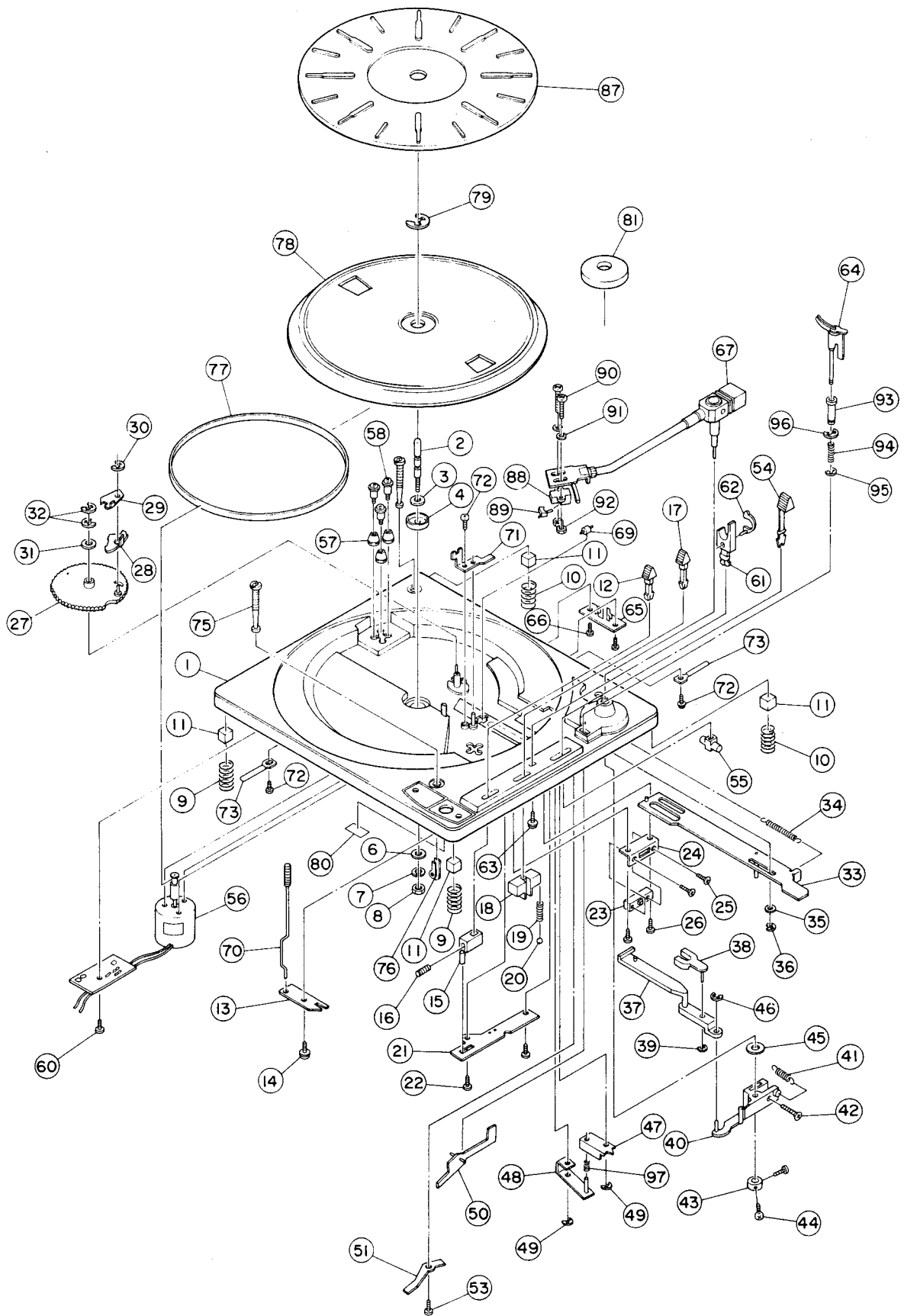


HA 11211 (IF.& Det. IC)

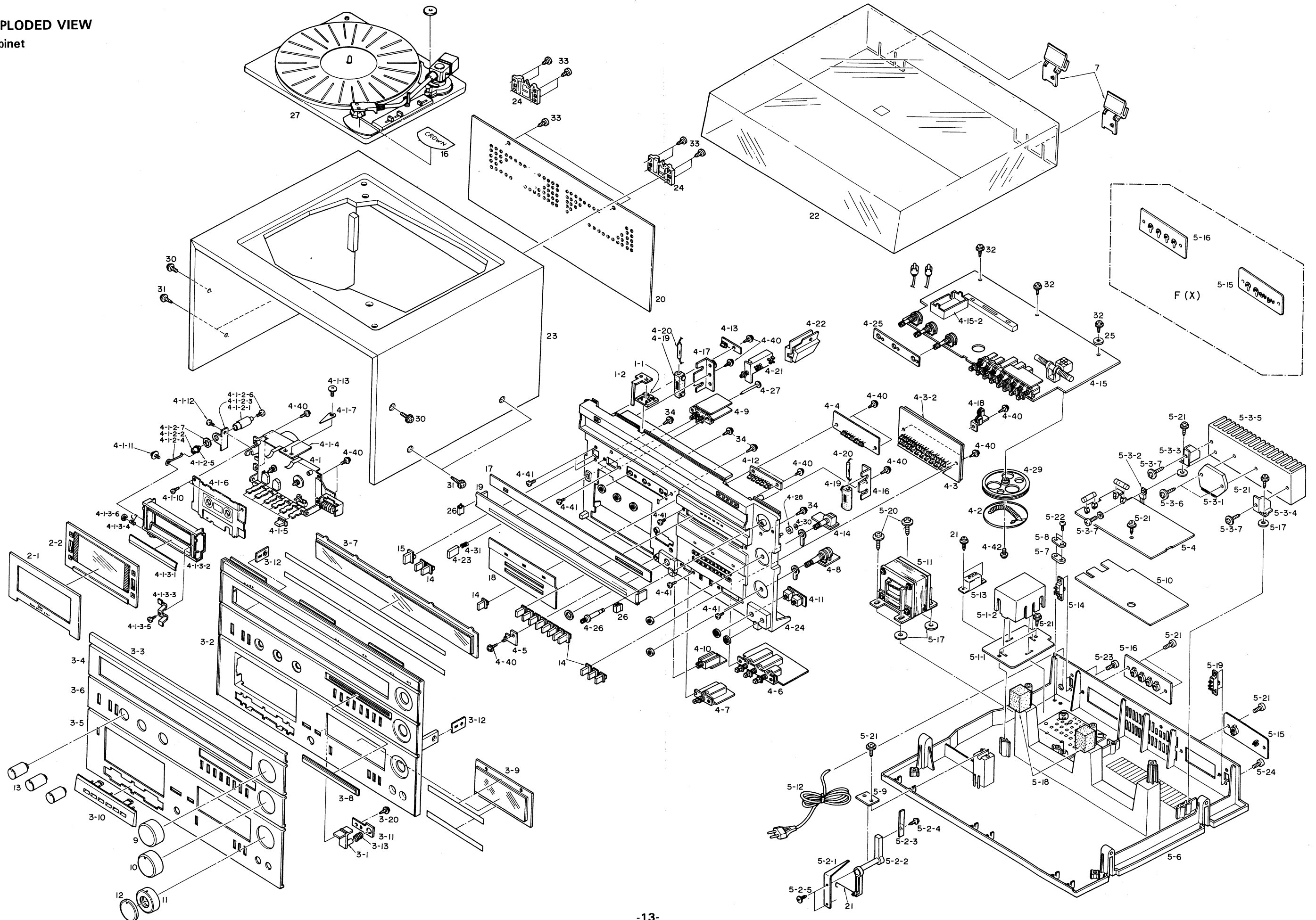


**EXPLODED VIEW**  
**Player**

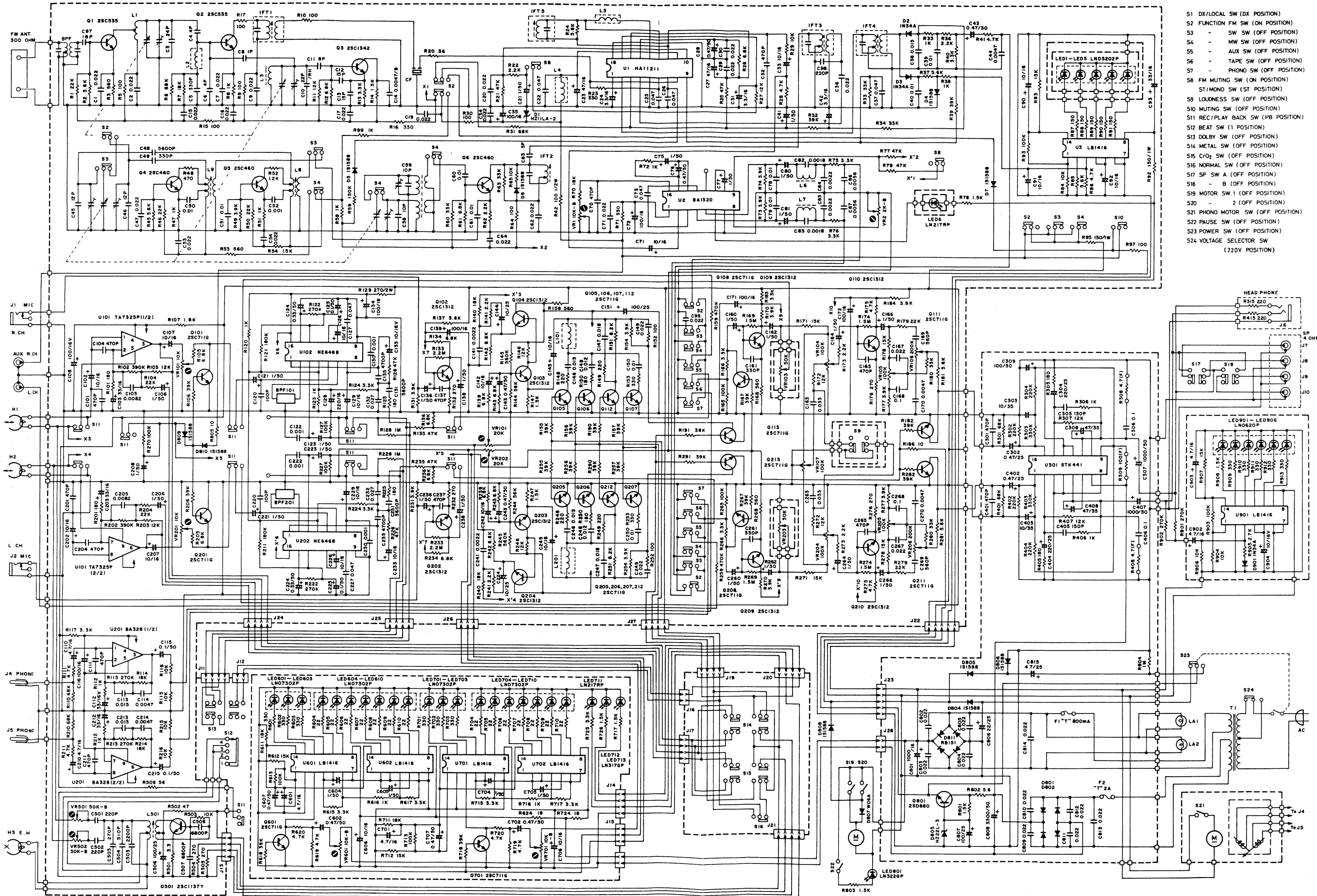
**AM-UG-49 (FV-109HR-2)**



EXPLODED VIEW  
Cabinet

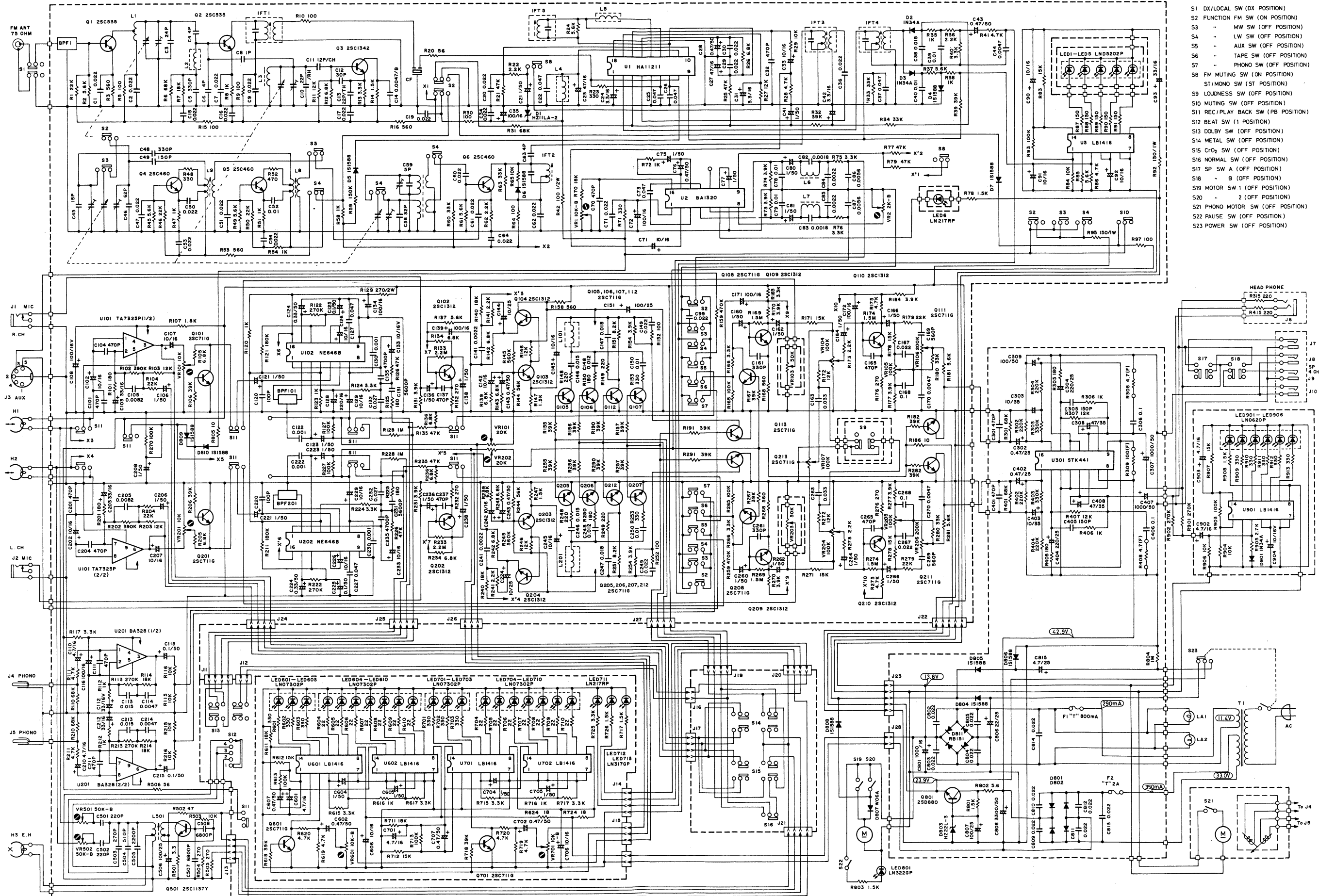


SCHEMATIC DIAGRAM (1) CCS-1000, 1010F (X)



**SCHEMATIC DIAGRAM (2) CCS-1000, 1010L (E), (UK), (GE)**

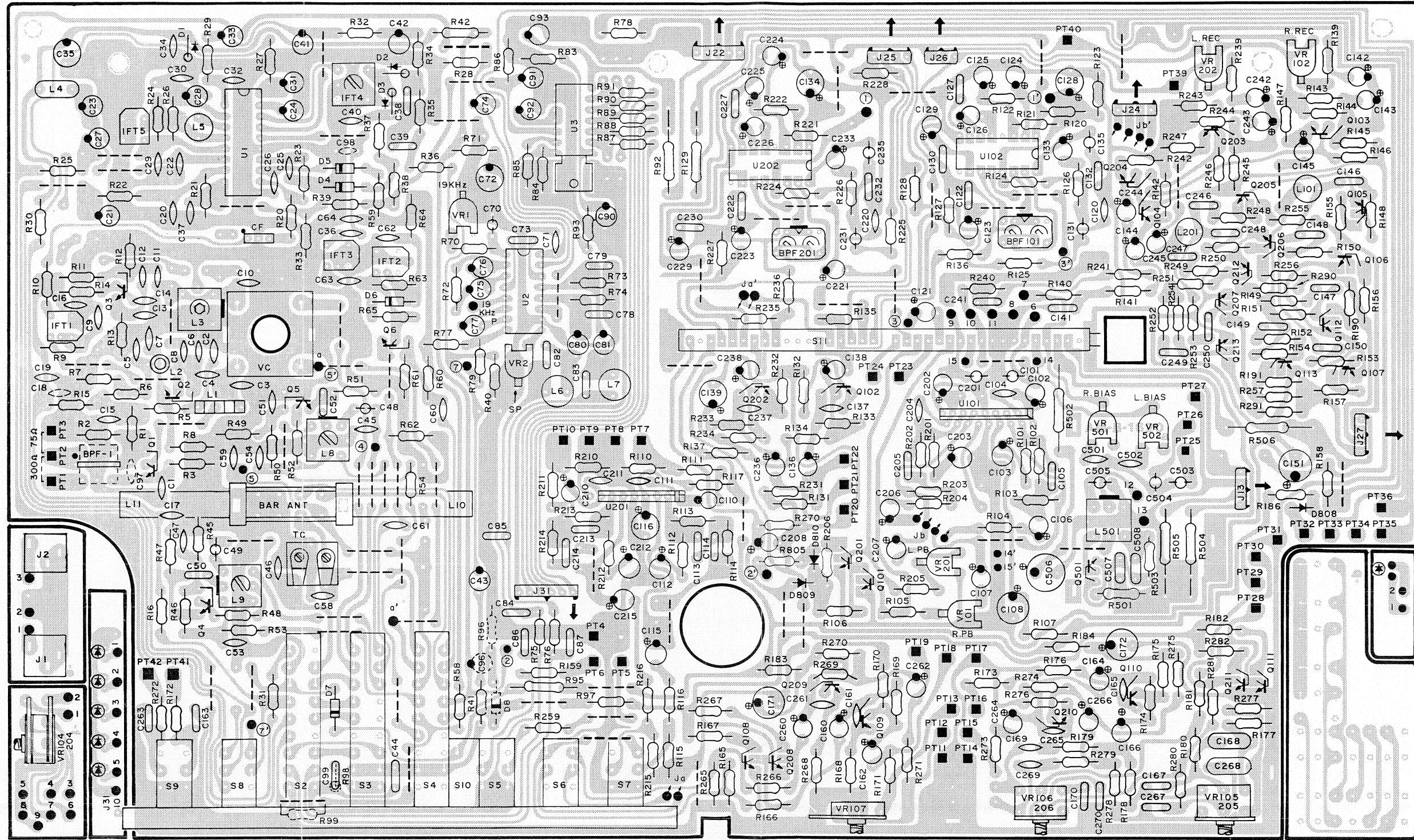
**NOTE:** This circuit is a standard circuit but is subject to change without notice.



- S1 DX/LOCAL SW (DX POSITION)
- S2 FUNCTION FM SW (ON POSITION)
- S3 MW SW (OFF POSITION)
- S4 LW SW (OFF POSITION)
- S5 AUX SW (OFF POSITION)
- S6 TAPE SW (OFF POSITION)
- S7 PHONO SW (OFF POSITION)
- S8 FM MUTING SW (ON POSITION)
- S9 ST/MONO SW (ST POSITION)
- S10 LOUDNESS SW (OFF POSITION)
- S11 MUTING SW (OFF POSITION)
- S12 REC/PLAY BACK SW (PB POSITION)
- S13 BEAT SW (1 POSITION)
- S14 DOLBY SW (OFF POSITION)
- S15 METAL SW (OFF POSITION)
- S16 CrO<sub>2</sub> SW (OFF POSITION)
- S17 NORMAL SW (OFF POSITION)
- S18 SP SW A (OFF POSITION)
- S19 MOTOR SW.1 (OFF POSITION)
- S20 " 2 (OFF POSITION)
- S21 PHONO MOTOR SW (PB POSITION)
- S22 PAUSE SW (OFF POSITION)
- S23 POWER SW (OFF POSITION)



WIRING BOARD LAYOUT  
Tuner, Pre-Amp, LED Signal



(DC Volt)

Q	1	2	3	4	5	6
B	1.6	1.6	3.0	1.8	1.7	1.3
C	8.0	8.2	7.4	8.7	8.1	9.1
E	0.9	0.9	2.3	1.2	1.2	0.9
Condition	FM			MW		

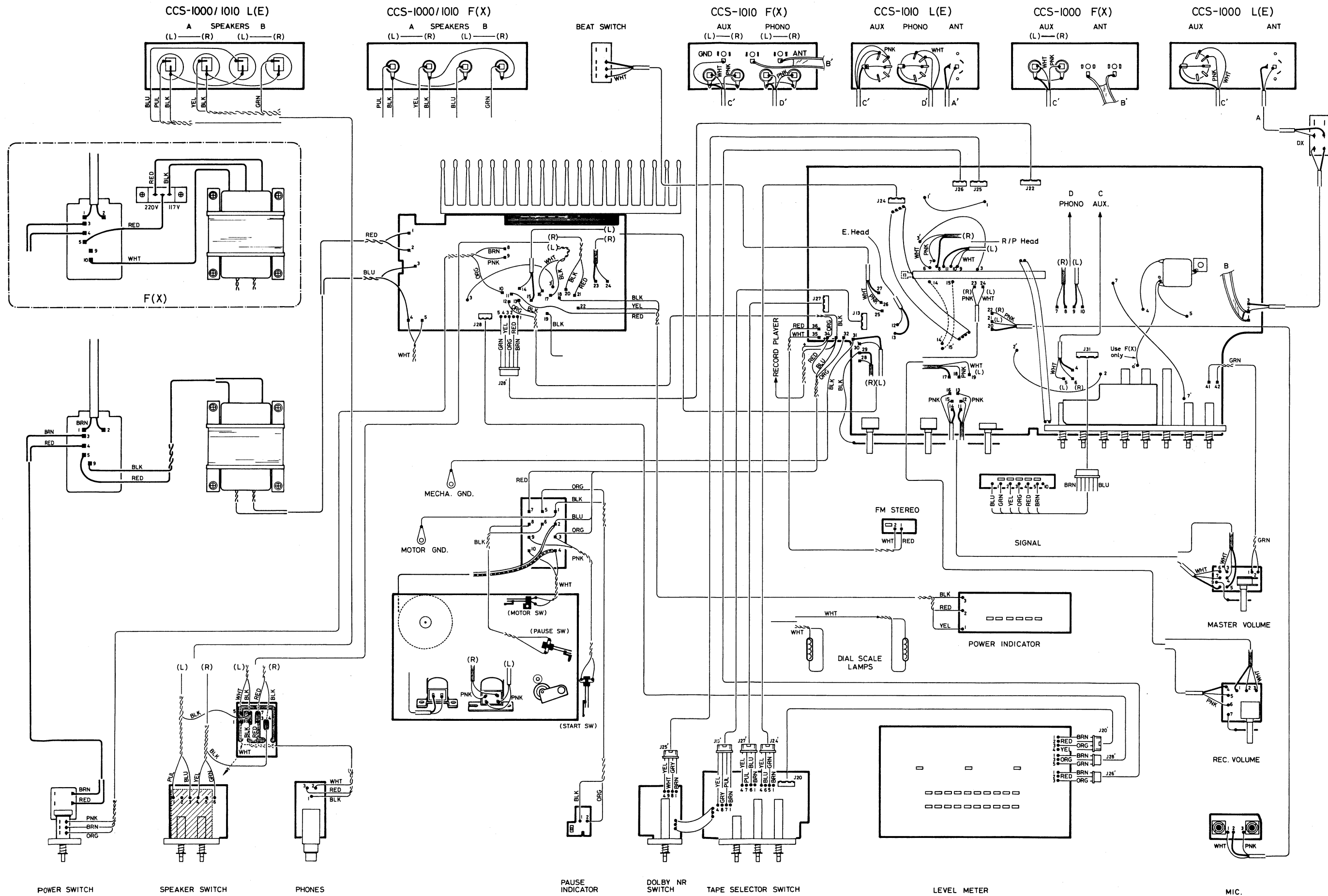
(DC Volt)

U	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Condition	
1	1.8	3.7	-	2.4	0.7	-	2.0	2.0	2.0	-	-	5.1	10.1	5.6	5.6	5.6	5.6	5.6	5.6	FM
2	1.9	2.5	-	3.4	0.7	-	2.5	2.5	2.5	-	-	5.2	10.2	5.6	5.6	5.6	6.1	5.6	5.6	MW
3	9.8	2.9	2.7	3.5	3.5	12.2	-	0.5	-	2.2	2.2	1.4	2.2	2.2	2.2	2.9	-	-	-	LED OFF
	-	-	-	2.7	2.7	-	-	12.2	0.1	0.1	0.1	0.1	0.1	0.1	-	-	-	-	-	LED ON





LEAD CONNECTION



REPLACEMENT PARTS LIST (1)

CCS-1000F (X)

MAIN COMPONENT PARTS

Stock No. with "★" cannot be supplied.

Ref. No.	Stock No.	Description	Q'ty	Remarks
1	★ 9267670	Dial pointer Ass'y	1	
2	★ 9267685	Cassette Holder Plate Ass'y	1	
3	★ 9268221	Front Cabinet Ass'y	1	
4	★ 9268235	Front Chassis Ass'y	1	
5	★ 9268219	Bottom Cabinet Ass'y	1	
6	★ 9267690	Carton Box Ass'y	1	
7	1763012	Hinge K-HG-006A	2	
8	4215956	Instruction Book R-816A	1	
9	1215065	Dial Knob R80070-013 (I)	1	
10	1225172	Volume Knob-1 R80070-014 (I)	1	
11	1225173	Volume Knob-2 R80070-015 (I)	1	
12	1225174	Volume Knob-3 R80070-016 (I)	1	
13	1225175	Volume Knob-4 R80070-017 (I)	3	
14	1255260	Push Button-2 R80070-020 (I)	14	
15	1265103	Push Button R80070-018 (I)	1	Power Switch
16	1445206	Plate (Player) R79070-005 (I)	1	
17	1445272	LED Plate-1 R80070-036 (I)	1	
18	1445273	LED Plate-2 R80070-037 (I)	1	
19	1485404	Dial Scale R80089-001 (I)	1	
20	1615394	Cover-5 (Rear) R80089-002 (I)	1	
21	2465095	Wire-1 R80070-072	1	
22	2835907	Dust Cover Unit R80070-00400 (I)	1	
23	1625071	Top Cabinet R80070-00501 (I)	1	
24	1763013	Hinge Bracket K-HB-006B	2	
25	3635156	Felt Washer R75121-065	1	
26	3825821	Dial Scale Retainer R7553-064	2	
27	★ 7550049	Record Player AM-UG-49	1	
	4491101	Polyethylene Bag-A-01	1	Hinge
	4491108	Polyethylene Bag-A-08	1	I. Book
	4491111	Polyethylene Bag-A-11	1	Turn Table Sheet
	4491303	Polyethylene Bag-C	1	Unit
30	3100311	WF Screw 4 × 12 S/NI	2	Top Cabinet
31	3311213	WFT Screw A4 × 16 S/NI	4	Top Cabinet
32	3311195	WFT Screw A3 × 12 S/Z	3	Main Chassis
33	3341203	RHW Screw 3.1 × 13 S/Z	10	Hinge Bracket, Cover-5
34	3381312	BHT Screw A3 × 12 S/Z	10	Front Cabinet, Front Chassis

1. DIAL POINTER ASS'Y

Ref. No.	Stock No.	Description	Q'ty	Remarks
1-1	2295513	Carrier R78155-017	1	
1-2	2315180	Dial Pointer R80070-040 (I)	1	

2. CASSETTE HOLDER PLATE ASS'Y

Ref. No.	Stock No.	Description	Q'ty	Remarks
2-1	1445274	Holder Plate R80070-038 (I)	1	
2-2	1715596	Cassette Door R80070-012 (I)	1	

3. FRONT CABINET ASS'Y

Ref. No.	Stock No.	Description	Q'ty	Remarks
3-1	1265104	Reset Button R80070-021 (I)	1	Counter
3-2	1345156	Front Cabinet R80070-002 (I)	1	
3-3	1445267	Plate-1 R80070-031 (I)	1	
3-4	1445268	Plate-2 R80070-032 (I)	1	
3-5	1445270	Plate-4 R80070-034 (I)	1	

Ref. No.	Stock No.	Description	Q'ty	Remarks
3-6	1445294	Plate-3 R80089-003 (I)	1	
3-7	1715592	Cover-1 R80070-006 (I)	1	Dial Scale
3-8	1715593	Cover-2 R80070-007 (I)	1	Power Indicator
3-9	1715594	Cover-3 R80070-008 (I)	1	Level Meter
3-10	1715595	Cover-4 R80070-009 (I)	1	Mecha. Button
3-11	2295568	Bracket-1 R80070-048	1	Reset Button
3-12	2295571	Bracket-4* R80070-051	2	Top Cabinet
3-13	3825942	Spring-1 R80070-069	1	Reset Button
3-20	3381312	BHT Screw A3 x 12 S/Z	1	Bracket-1

#### 4. FRONT CHASSIS ASS'Y

Ref. No.	Stock No.	Description	Q'ty	Remarks
4-1	★ 9267630	Mechanism Ass'y	1	
4-2	★ 9267691	Dial Cord Ass'y	1	
4-3	★ 9267663	Level Meter Ass'y	1	
4-4	★ 9267673	Power Indicator Ass'y	1	
4-5	★ 9267674	Pause Indicator Ass'y	1	
4-6	★ 9267677	Tape Selector Switch Ass'y	1	
4-7	★ 9267678	Dolby NR Switch Ass'y	1	
4-8	★ 9267681	Rec. Volume Ass'y	1	
4-9	★ 9267679	Speaker Switch Ass'y	1	
4-10	★ 9267664	Headphone PCB Ass'y	1	
4-11	★ 9267661	Mic Jack PCB Ass'y	1	
4-12	★ 9267671	LED Signal PCB Ass'y	1	
4-13	★ 9267672	FM Stereo Indicator PCB Ass'y	1	
4-14	★ 9267682	Master Volume PCB Ass'y	1	
4-15	★ 9268260	Main PCB Ass'y	1	
4-16	2365526	Pulley Bracket-1 R80070-052	1	(Right)
4-17	2365527	Pulley Bracket-2 R80070-053	1	(Left) with pulley
4-18	2365528	Pulley Bracket-3 R80070-054	1	
4-19	2165152	Lamp Holder-1 R7574-030B	2	
4-20	7440369	Lamp 15V-100mA EQL-Z-069	2	
4-21	7460839	Power Switch AM-S-839	1	
4-22	1715573	Power Switch Cover R79069-044 (I)	1	F(X)....Not Used
4-23	1265105	Eject Button R80070-022 (I)	1	
4-24	2115180	Front Chassis R80070-003 (I)	1	
4-25	2345623	Earth Plate-1 R80070-045	1	
4-26	2415137	Dial Shaft R80070-043	1	
4-27	2425276	Ejection Shaft R80070-025	1	
4-28	2444012	Pulley R7708-051	1	
4-29	2485133	Dial Pulley R80070-026	1	
4-30	3630087	PS Washer 2.8φ-7φ x 0.5	1	
4-31	3825943	Spring-2 R80070-070	1	Eject Button
4-40	3381312	BHT Screw A3 x 12 S/Z	16	
4-41	3610033	BHDT Screw 3 x 8 S/Z	10	
4-42	3618031	PW Screw 2.6 x 6 S/Z	1	Dial Pulley

#### 4-1. MECHANISM ASS'Y

Ref. No.	Stock No.	Description	Q'ty	Remarks
4-1-1	★ 2835909	Mechanism Unit R80070-30000	1	MF-407
4-1-2	★ 9267683	Damper Ass'y	1	
4-1-3	★ 9267699	Cassette Holder Ass'y	1	
4-1-4	★ 9267662	Mechanism Terminal PCB Ass'y	1	
4-1-5	1255259	Push Button-1 R80070-019 (I)	6	
4-1-6	1445275	Mechanism Cover R80070-039 (I)	1	
4-1-7	2185066	Cord Cramp R754-153	1	
4-1-10	3311196	PHT Screw A2 x 6 S/Z	2	Mechanism Cover
4-1-11	3311214	WFT Screw A2.6 x 6 S/Z	1	Wire-2
4-1-12	3610029	BHDT Screw 2.6 x 5 S/Z	1	Damper Bracket
4-1-13	3610032	BHDT Screw 3 x 6 S/Z	2	Mecha. Terminal PCB

**4-1-2. DAMPER ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
4-1-2-1	2165249	Damper-1 R80070-023	1	
4-1-2-2	2165250	Damper-2 R80070-024	1	
4-1-2-3	2295567	Bracket R80070-044	1	
4-1-2-4	2465096	Wire-2 R80070-073	1	
4-1-2-5	2465097	O ring R80070-077	1	
4-1-2-6	3610031	BHDT Screw 2.6 x 8 S/Z	1	
4-1-2-7	3740018	CS Ring 12φ	1	

**4-1-3. CASSETTE HOLDER ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
4-1-3-1	1445291	Plate-5 R80070-035 (RO)	1	
4-1-3-2	2165248	Cassette Holder R80070-011 (II)	1	
4-1-3-3	3825940	Leaf Spring-1 R80070-067	2	
4-1-3-4	3825944	Spring-3 R80070-071	1	
4-1-3-5	3311196	PHT Screw A2 x 6 S/Z	2	
4-1-3-6	3740017	CS Ring P4	1	Spring-3

**4-1-4. MECHANISM TERMINAL PCB ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
		PCB AM-B-1621-d	1	
	8120066	Diode W06A	1	D807

**4-2. DIAL CORD ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
4-2-1	3790002	Grommet 2 x 3 B/NI	1	
4-2-2	3815092	Spring R77124-045A	1	
4-2-3	5110160	Dial Cord 0.3mm x 1600mm	1	

**4-3. LEVEL METER ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
4-3-1		PCB AM-B-1621-b	1	
4-3-2	2335351	Shield Case-2 R80070-060	1	
	8110074	IC LB 1416	4	U601, 602, 701, 702
	8113328	Transistor 2SC 711G	2	Q601, 701
	8120293	LED LN217RP (Red)	1	LED 711
	8120315	LED(7P) LN07302P (Green)	2	LED604 ~ 610, 704 ~ 710
	8120316	LED (3P) LN03202P (Red)	2	LED601 ~ 603, 701 ~ 703
	8120317	LED LN 317GP (Green)	2	LED712, 713
	8914103	Semi-fixed Resistor 10kΩ-B	2	VR601, 701

**4-4. POWER INDICATOR ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
4-4-1		PCB AM-B-1621-e	1	
	8110074	IC LB 1416	1	U901
	8120347	LED (6P) LN06202P (Red)	1	LED901 ~ 906
	8121002	Diode IN34A	1	D901

**4-5. PAUSE INDICATOR ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
4-5-1	8120348	PCB	1	LED 801
		LED	1	
		AM-B-1621-g LN322GP (Green)		

**4-6. TAPE SELECTOR SWITCH ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
4-6-1	7460873 7740434	PCB	1	S14,15,16
		Push Switch	1	
		Connector	1	
		AM-B-1621-h AM-S-873 AM-ZE-434		

**4-7. DOLBY NR SWITCH ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
4-7-1	7460875	PCB	1	S13
		Push Switch	1	
		AM-B-1621-k AM-S-875		

**4-8. REC. VOLUME ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
4-8-1		PCB	1	VR103,203
		Volume 50kΩ-BX2	1	
		Earth Bracket-3	1	
		AM-B-1621-i AM-VR-966 R80070-047		

**4-9. SPEAKER SWITCH ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
4-9-1	7460872	PCB	1	S17,18
		Push Switch	1	
		AM-B-1621-f AM-S-872		

**4-10. HEADPHONE PCB ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
4-10-1	7210156 8333222	PCB	1	J6 R315,415
		Headphone Jack	1	
		Carbon	2	
		AM-B-1621-c AM-J-156 220Ω 1/2W J		

**4-11. MIC JACK PCB ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
4-11-1	7210134	PCB	1	J1,2
		Mic Jack	2	
		AM-B-1620-e AM-J-134		

**4-12. LED SIGNAL PCB ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
4-12-1	8120305	PCB	1	LED1 ~ 5
		LED (5P)	1	
		AM-B-1620-d LN05202P (Red)		

**4-13. FM STEREO INDICATOR PCB ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
4-13-1	8120293	PCB AM-B-1620-c	1	LED 6
		LED LN217RP (Red)	1	

**4-14. MASTER VOLUME PCB ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
4-14-1	7580970 2345624	PCB AM-B-1620-f	1	VR104,204
		Volume 100kΩ-A × 2 AM-VR-970	1	
		Earth Bracket-2 R80070-046	1	

**4-15. MAIN PCB ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
4-15-1	7121620	PCB AM-B-1620-a	1	TP Ass'y 9268258
	7200087	IC BA 1320	1	U2
	7200107	IC NE 646B	2	U102,202
	7200126	IC BA 328	1	U201
	7200137	IC TA 7325P	1	U101
	8110064	IC HA 11211	1	U1
	8110074	IC LB 1416	1	U3
	8113059	Transistor 2SC 460B	3	Q4,5,6
	8113066	Transistor 2SC 535B	2	Q1,2
	8113168	Transistor 2SC 1173Y	1	Q501
	8113241	Transistor 2SC 1342C	1	Q3
	8113323	Transistor 2SC 1312G	10	Q102,202,103,203,104, 204,109,209,110,210
	8113328	Transistor 2SC 711G	16	Q101,201,105,205,106, 206,107,207,108,208, 111,211,112,212,113, 213
	8120354	Diode (Zener) HZ11LA-2	1	D1 (Vz9.7 × 10.1)
	8121002	Diode IN34A	2	D2,3
	8131019	Varistor IS1588	7	D4~7, 808~810
	7230624	Bar Antenna Coil AM-LA-624	1	L10,11 (MW, SW)
	7250511	IFT AM-LI-511	1	IFT4 (AM)
	7250660	IFT AM-LI-660	2	IFT2,3 (AM)
	7250668	IFT AM-LI-668	1	IFT1 (FM)
	7250669	IFT AM-LI-669	1	IFT5 (FM)
	7270435	OSC Coil AM-LO-435	1	L9 (MW)
	7270516	OSC Coil AM-LO-516	1	L3 (FM)
	7270534	OSC Coil AM-LO-534	1	L8 (SW)
	7270531	OSC Coil AM-LO-531	1	L501 (Bias)
	7290026	Choke Coil AM-LS-26	1	L2 (10.7MHz)
	7290274	Choke Coil AM-LS-274	2	L6,7
	7290293	Choke Coil AM-LS-293	1	L4
	7290509	Phase Coil AM-LS-509	1	L5
	7290517	FM Band Pass Filter AM-LS-517	1	B.P.F-1
	7290523	Tuning Coil AM-LS-523	1	L1
	7290545	Choke Coil (10mH) AM-LS-545	2	L101,201
	7460871	Push Switch AM-S-871	1	S2~10
	7460874	Slide Switch AM-S-874	1	S11
	7560269	Trimmer Condenser AM-VC-269	1	TC5,6
	7560309	Variable Condenser AM-VC-309	1	VC
	7580967	Volume 100KΩ-W AM-VR-967	1	VR107 (Balance)
	7580968	Volume 200kΩ-A × 2 AM-VR-968	1	VR106,206 (Tretle)
	7580969	Volume 100kΩ-K × 2 AM-VR-969	1	VR105, 205 (Bas)
	7610083	Dolby NR Filter AM-W-83	2	BPF101,201
	7640089	Ceramic Filter AM-X-89	1	CF (10.7MHz)
	7740433	Connector (3P) AM-ZE-433	1	
7740434	Connector (4P) AM-ZE-434	4		
7740435	Connector (5P) AM-ZE-435	1		
7740436	Connector (6P) AM-ZE-436	1		

Ref. No.	Stock No.	Description	Q'ty	Remarks	
4-15-2	8914103	Semi-fixed Resister 10kΩ-B	3	VR1,101,201	
	8914202	Semi-fixed Resister 2kΩ-B	1	VR2	
	8914203	Semi-fixed Resister 20kΩ-B	2	VR102,202	
	8914503	Semi-fixed Resister 50kΩ-B	2	VR501,502	
	2335350	Shield Case-1 R80070-059	1		
	2415128	Pulley Shaft R78155-031	1		
	2444012	Pulley R7708-051	1		
	3510023	Nut 3 S/Z	1	Pulley shaft	
	3711056	Washer 3 S/Z	1	Pulley shaft	
		-- CAPACITORS --			
		5511050	Ceramic 5pF 50V C	1	C63
		5512100	Ceramic 10pF 50V D	2	C58,59
		5514120	Ceramic 12pF 50V J	2	C45,46
		8700191	Ceramic 8pF 50V D	1	C11
		8700213	Ceramic 4pF 50V C	2	C4,6
		8700301	Ceramic 1pF 50V C	1	C8
		8700429	Ceramic 22pF 50V J RH	1	C10
		8700704	Ceramic 15pF 50V J TH	1	C13
		8798304	Ceramic 0.0047μF 50V K B	1	C14
		8683003	Styrol 2200pF 125V J	1	C505
		8683019	Styrol 270pF 125V J	1	C503
		8683028	Styrol 510pF 125V J	1	C504
		7140146	Electrolytic 0.47μF 50V M LL	2	C143,243
		7140208	Electrolytic 0.1μF 50V M LL	4	C115,215,125,225
		7140210	Electrolytic 0.33μF 50V M LL	2	C124,224
		7140212	Electrolytic 1μF 50V M LL	2	C164,264
		7140213	Electrolytic 10μF 25V M LL	2	C144,244
		-- RESISTORS --			
		7450248	Metal Film 150Ω 1W J	2	R92,95
		7450262	Metal Film 270Ω 2W J	1	R129
		7450264	Metal Film 47Ω 2W J	1	R502
		7450265	Metal Film 56Ω 2W J	1	R506
		7450267	Metal Film 270Ω 1W J	2	R504,505
		8333102	Carbon 100Ω 1/2W J	1	R42
		8333330	Carbon 3.3Ω 1/2W J	1	R501

## 5. BOTTOM CABINET ASS'Y

Ref. No.	Stock No.	Description	Q'ty	Remarks
5-1	★ 9265853	Power Supply Board Ass'y	1	
5-2	★ 9267684	Lever-1 Ass'y	1	
5-3	★ 9267697	Heat Sink Ass'y	1	
5-4	★ 9268244	Power Amp PCB Ass'y	1	
5-5	1415203	Plate R80001-006	1	
5-6	1615387	Bottom Cabinet R80070-001 (II)	1	
5-7	2165078	Cord Holder R7185-005	1	
5-8	2165117	Cord Holder-2 R7574-022	1	
5-9	2295569	Bracket-2 R80070-049	1	
5-10	2335347	Shield Plate-1 R80070-057	1	
5-11	7530860	Power Transformer AM-TS-860	1	117/220V
5-12	7660297	AC Cord AM-YS-297	1	
5-13	7460615	Slide Switch AM-S-615	1	S24
5-14	7460774	Slide Switch AM-S-774	1	S12
5-15	7710307	Antenna Terminal Board AM-Z-307	1	
5-16	7710323	Speaker Terminal AM-Z-323	1	J7 ~ 10
5-17	3630072	Fiber Washer 4φ-15φ × 1	6	P. Trans. 4, H. Sink 2
5-18	2675153	Packing-1 R80070-074	2	
5-20	3311202	WFT Screw A4 × 14 S/Z	4	Power Transformer
5-21	3381312	BHT Screw A3 × 12 S/Z	11	
5-22	3381316	BHT Screw A3 × 16 S/Z	2	Cord Holder
5-23	3610031	BHDT Screw 2.6 × 8 S/Z	2	AM-S-774
5-24	3610033	BHDT Screw 3 × 8 S/Z	2	AM-S-242 F(X) Not Used



**5-1. POWER SUPPLY BOARD ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
5-1-1	7121387	PCB AM-B-1387	1	
	7740206	Print Tip AM-ZE-206	4	
	7740345	AC Terminal AM-ZE-345	2	
5-1-2	1715452	Shield Cover-2 R7752-065	1	F(X)...Not Used

**5-2. LEVER-1 ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
5-2-1	2295585	Bracket-6 R80070-064	1	
5-2-2	2465094	Lever-1 R80070-027	1	
5-2-3	3825941	Leaf Spring-2 R80070-068	1	
5-2-4	3311214	WFT Screw A2.6×6 S/Z	1	
5-2-5	3381308	BHT Screw A3×8 S/Z	2	Bracket-6

**5-3. HEAT SINK ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
5-3-1	7200112	IC (Power Amp) STK-441	1	U301
5-3-2	8113423	Transistor 2SD 880Y	1	Q801
5-3-3	2295559	Heat Sink Bracket R79103-020	1	(L)
5-3-4	2295560	Heat Sink Bracket R79103-021	1	(R)
5-3-5	2335346	Heat Sink R80070-055	1	
5-3-6	3181312	BH Screw 3×12 S/Z	2	Power Amp IC
5-3-7	3610033	BHDT Screw 3×8 S/Z	3	Heat Sink, Q801

**5-4. POWER AMP PCB ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks	
5-4-1		PCB AM-B-1621-a	1	TP Ass'y 9267657	
	7910364	Rectifier RB-151	1	D811	
	7910383	Rectifier MI-151R	1	D801	
	7910384	Rectifier MI-151	1	D802	
	8120349	Diode (Zener) HZ22L-3	1	D803 (Vz 22.3~23.3)	
	8131019	Varistor IS1588	3	D804 ~ 806	
	7740433	Connector (3P) AM-ZE-433	1		
		-- CAPACITORS --			
	5714479	Electrolytic 4.7μF 25V M	1	C815	
	7140193	Electrolytic 0.47μF 25V M	2	C302,402	
	7140223	Electrolytic 3300μF 50V M	1	C808	
8400286	Electrolytic 10μF 35V M	2	C303,403		
8400289	Electrolytic 47μF 35V M	2	C308,408		
8451102	Electrolytic 100μF 25V M	1	C807		
8451221	Electrolytic 22μF 25V M	1	C806		
8451222	Electrolytic 220μF 25V M	2	C304,404		
8461102	Electrolytic 100μF 50V M	1	C309		
8461103	Electrolytic 1000μF 50V M	2	C307,407		
	-- RESISTORS --				
7450132	Fuse Resistor 100Ω 1/2W J	1	R309		
7450151	Fuse Resistor 4.7Ω 1/4W J	2	R308,408		
7450255	Fuse Resistor 5.6Ω 1/2W	1	R802		
7450266	Fuse Resistor 18Ω 1/4W J	2	R624,724		

**6. CARTON BOX ASS'Y**

Ref. No.	Stock No.	Description	Q'ty	Remarks
6-1	4416430	Carton Box ZPK-A6430	1	
6-2	4426177	Cushion-1 ZPK-B6177	1	
6-3	4426178	Cushion-2 ZPK-B6178	1	
6-4	4446055	Protector Board ZPK-D6055	1	

**REPLACEMENT PARTS LIST (2)**

**CCS-1010F (X)**

Note: The parts not listed should be referred to the parts list for the standard model CCS-1000F(X).

Ref. No.	Stock No.	Description	Q'ty	Remarks
—MAIN COMPONENT PARTS—				
3	★ 9268721	Front Cabinet Ass'y	1	
5	★ 9268719	Bottom Cabinet Ass'y	1	
6	★ 9268490	Carton Box Ass'y		
7		Not Used		
8	4215958	Instruction Book R-818A	1	
16		Not Used		
20	1615399	Cover-5 (Rear) R80093-001 (I)	1	
22		Not Used		
23	1625075	Top Cabinet R80079-001 (I)	1	
24		Not Used		
27		Not Used		
33	3341203	RHW Screw 3.1 x 13 S/Z	2	Cover-5
—FRONT CABINET ASS'Y—				
3				
3-2	1345160	Front Cabinet R80079-002 (I)	1	
3-3		Not Used		
3-4	1445295	Plate-2 R80079-004 (I)	1	
—BOTTOM CABINET ASS'Y—				
5				
5-15	7710324	Antenna Terminal Board AM-Z-324	1	
—CARTON BOX ASS'Y—				
6				
6-1	4416458	Carton Box ZPK-A-6458	1	
6-2	4426190	Cushion-1 ZPK-B-6190	1	
6-3	4426191	Cushion-2 ZPK-B-6191	1	

REPLACEMENT PARTS LIST (3)

CCS-1000L (E), (UK), (GE)

Note: The parts not listed should be referred to the parts list for the standard model CCS-1000F (X).

Ref. No.	Stock No.	Description	Q'ty	Remarks
— MAIN COMPONENT PARTS —				
3	★ 9267621 *	Front Cabinet Ass'y	1	(E), (GE)
		*	1	(UK)
4	★ 9267635 *	Front Chassis Ass'y	1	(E), (GE)
		*		(UK)
5	★ 9267619 9268919	Bottom Cabinet Ass'y	1	(E), (GE)
		*	1	(UK)
8	4215936 *	Instruction Book R-803A	1	(E), (GE)
		*	1	(UK)
19	1485400 *	Dial Scale R80070-010 (I)	1	(E), (GE)
		*	1	(UK)
20	1615388 1615393 1615425	Cover-5 (Rear) R80070-056 (I)	1	(E)
		*	1	(UK)
		*	1	(GE)
— FRONT CABINET ASS'Y —				
3				
3-6	1445269 *	Plate-3 R80070-033 (I)	1	(E), (GE)
		*	1	(UK)
— FRONT CHASSIS ASS'Y —				
4				
4-15	★ 9267660 7230614 7270435 7270436 7560270 7610076	Main PCB Ass'y	1	
		Bar Antenna Coil AM-LA-614	1	L10, 11 (MW, LW)
		OSC Coil AM-LO-435	1	L8 (MW)
		OSC Coil AM-LO-436	1	L9 (LW)
		Trimmer Condenser AM-VC-270	1	TC5, 6
		FM Band Pass Filter AM-W-76	1	B.P.F-1
— CAPACITORS —				
	5511040	Ceramic 4pF 50V C	1	C63
	5511050	Ceramic 5pF 50V C	1	C59
	5514150	Ceramic 15pF 50V J	1	C45
	5514330	Ceramic 33pF 50V J	1	C58
	5514620	Ceramic 62pF 50V J	1	C46
	8700170	Ceramic 7pF 50V C CH	1	C11
	8700213	Ceramic 4pF 50V C	2	C4, 6
	8700301	Ceramic 1pF 50V J	1	C8
	8700429	Ceramic 22pF 50V J RH	1	C10
	8700704	Ceramic 15pF 50V J TH	1	C13
— BOTTOM CABINET ASS'Y —				
5				
5-4	★ 9267644 7150087 7150101 7150112	Power Amp PCB Ass'y		
		Fuse Holder AM-D-87	4	
		Fuse 250V 2A T S AM-D-101	1	F2
		Fuse 250V 800mA T S AM-D-112	1	F1
— RESISTOR —				
	8333153	Carbon 1.5kΩ 1/2W J	1	R801
5-11	7530845	Power Transformer AM-TS-845	1	220V (E), (GE)
*	7530861	* AM-TS-861	1	240V (UK)
5-12	7660202 *	AC Cord AM-YS-202	1	(E), (GE)
		* AM-YS-274	1	(UK)
5-15	7710313	Antenna Terminal Board AM-Z-313	1	
5-16	7710321	Speaker Terminal AM-Z-321	1	
5-19	7460242	Slide Switch AM-S-242	1	Local/DX

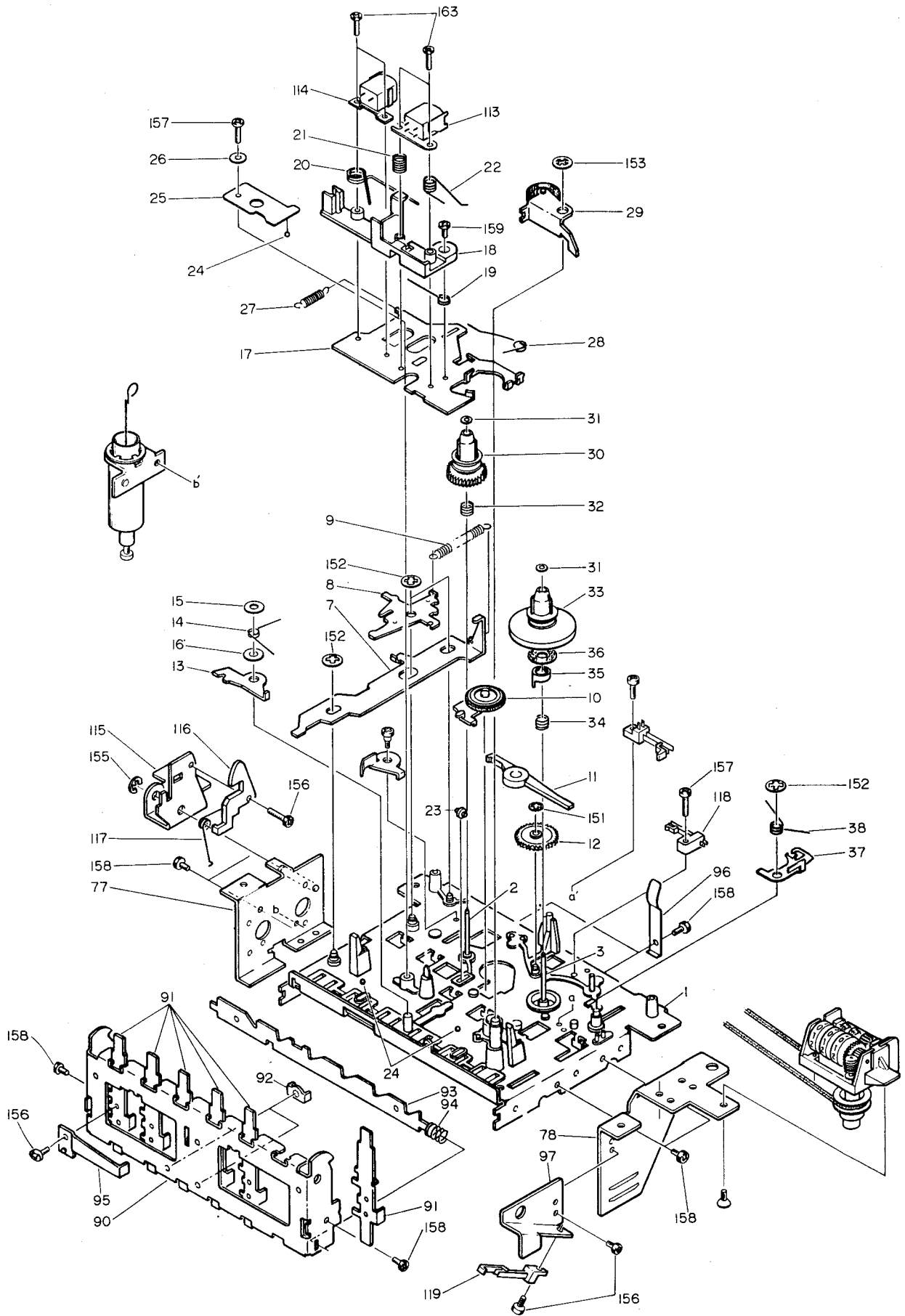
**REPLACEMENT PARTS LIST (4)**

**CCS-1010L(E), (UK), (GE), (FR).**

Note: The parts not listed should be referred to the parts list for the standard model CCS-1000L(E).

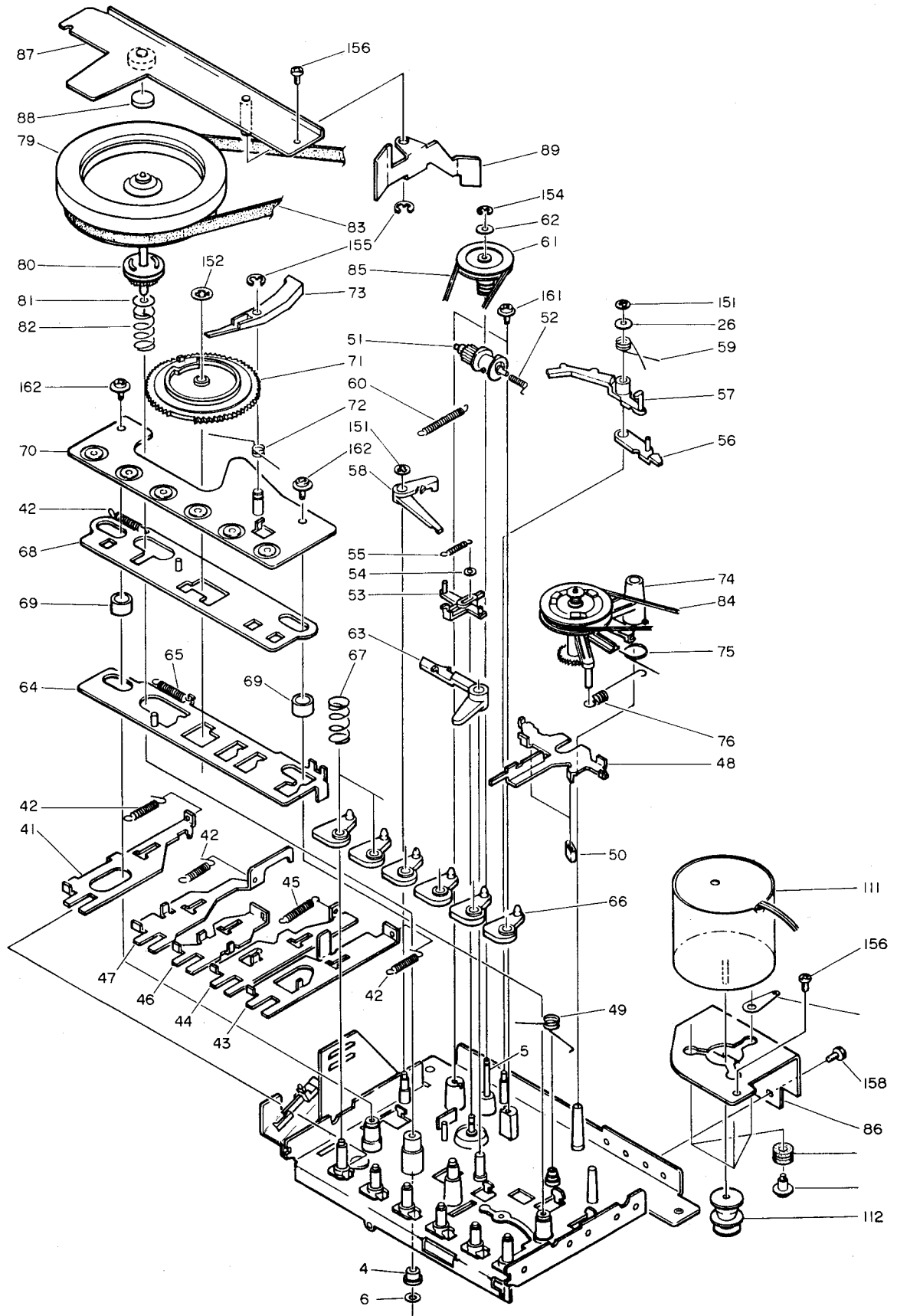
Ref. No.	Stock No.	Description	Q'ty	Remarks
—MAIN COMPONENT PARTS—				
3	★ 9268421	Front Cabinet Ass'y	1	(E), (GE), (FR)
	★ 9268421	*	1	(UK)
5	9268419	Bottom Cabinet Ass'y	1	(E), (GE), (FR)
	9269119	*	1	(UK)
6	9268490	Carton Box Ass'y	1	(E), (UK), (FR)
	9269290	*	1	(GE)
7		Not Used		
8	4215957	Instruction Book	R-817A	1 (E), (GE), (FR)
	4215957	*		1 (UK)
16		Not Used		
20	1615397	Cover-5 (Rear)	R80090-001 (I)	1 (E)
	1615398	*	R80092-001 (I)	1 (UK)
	1615400	*	R80105-001 (I)	1 (GE)
	1615419	*	R81027-001 (I)	1 (FR)
22		Not Used		
23	1625075	Top Cabinet	R80079-001 (I)	1 (E), (GE), (FR)
	1625075	*		1 (UK)
24		Not Used		
27		Not Used		
33	3341203	RHW Screw	3.1 × 13 S/Z	2 Cover-5
—FRONT CABINET ASS'Y—				
3				
3-2	1345160	Front Cabinet	R80079-002 (I)	1
3-3		Not Used		
3-4	1445295	Plate-2	R80079-004 (I)	1
—BOTTOM CABINET ASS'Y—				
5				
5-15	7710322	Antenna Terminal Board	AM-Z-322	1
—CARTON BOX ASS'Y—				
6				
6-1	4416458	Carton Box	ZPK-A-6458	1 (E), (UK), (FR)
*	4416470	*	ZPK-A-6470	1 (GE)
6-2	4426190	Cushion-1	ZPK-B-6190	1
6-3	4426191	Cushion-2	ZPK-B-6191	1

**EXPLODED VIEW**  
**Mechanism (1) Top View**



**EXPLODED VIEW**  
**Mechanism (2) Bottom View**

**MF-407**



## 4-1-1. MECHANISM UNIT

MF-407

Ref. No.	Stock No.	Description	Q'ty	Remarks
1		Chassis PBB 1077	1	
2		Reel Shaft PBE 13656	1	
3		Reel Shaft PBE 14455	1	
4		Bearing Metal PBE 14456	1	
5		Shaft PBE 14453	1	
6		Oil Cut Washer 2.4φ-4φ×0.3	1	
7		REC Inter Plate PBD 1590	1	
8		STOP Sub Plate PBE 14824	1	
9		Spring PBE 6112	1	
10	0002697	Idler Ass'y PBE 01412	1	
11		PAUSE Arm PBE 14427	1	
12	0002698	Idler Gear PBE 14337	1	
13		PLAY Protect Plate PBD 1591	1	
14		Spring PBE 6054	1	
15		Washer 4.2φ-10φ×0.25	1	
16		Washer 4.2φ-8φ×0.3	1	
17		Head Panel PBD 1594	1	
18		Head Block PBC 1118	1	
19		Spring PBE 6050	1	
20		Spring PBE 6060	1	
21	0002321	Head Spring PBE 13666	1	
22		Pinch Roller Spring PBE 6046	1	
23		Guide Roller PBE 14457	1	
24		Steel Ball PBE 14460	3	
25		Spring Plate PBE 14437	1	
26		Washer 2.8φ-7φ×0.5	2	
27		Spring PBE 6098	1	
28		Spring PBE 6056	1	
29	0002699	Pinch Roller Unit PBE 01415	1	
30		Supply Reel PBE 01054	1	
31	0002308	Washer (Mylar) 1.6φ-4φ×0.2	2	
32		Back Tension Spring PBE 6003	1	
33	0002700	Take-up Reel PBE 01129	1	
34		Spring PBE 6009	1	
35		Clutch PBE 13723	1	
36		Friction Plate PBE 14720	1	
37		Lock Plate PBD 1442	1	
38		Spring PBE 6055	1	
39				
40				
41		PAUSE Plate PBE 14422	1	
42		Spring PBE 13662	4	
43		REC Plate PBE 14424	1	
44		REW Plate PBE 14426	1	
45		Spring PBE 6057	1	
46		PLAY Plate PBE 14423	1	
47		FF Plate PBE 14425	1	
48		Brake Plate PBD 1596	1	
49		Spring PBE 6047	1	
50		Brake Cushion PBE 14180	2	
51		Auto Stop Cam PBE 01410	1	
52		Spring PBE 6097	1	
53		Senser PBD 1450	1	
54		Washer PBE 14117	1	
55		Spring PBE 14045	1	
56		Senser Arm-A PBE 14705	1	
57		Senser Arm-B PBE 14706	1	
58		Senser Arm-C PBE 14707	1	
59		Spring PBE 6092	1	
60		Spring PBE 6005	1	
61		Worm Gear PBD 1598	1	
62		Washer (Mylar) 2.6φ-6φ×0.2	1	
63		STOP Lever PBE 14438	1	
64		Lock Plate Ass'y PBE 01434	1	
65		Spring PBE 6095	1	
66		Select Arm Ass'y PBE 14441	6	

Ref. No.	Stock No.	Description	Q'ty	Remarks
67		Spring PBE 6048	6	
68		Slide Plate Ass'y PBE 01414	1	
69		Collar PBE 14459	2	
70		Holder Plate Ass'y PBE 01416	1	
71	0002701	Assist Gear PBD 1601	1	
72		Spring PBE 6053	1	
73		Start Lever PBE 14439	1	
74	0002702	Clutch Arm Ass'y PBE 01419	1	
75		Spring PBE 6049	1	
76		Spring PBE 6093	1	
77		Side Plate A PBD 01420	1	
78		Side Plate C PBD 1614	1	
79	0002703	Flywheel PBE 14416	1	
80	0002704	Flywheel Gear PBD 1600	1	
81		Washer 2.6φ-8φ×0.25	1	
82		Spring PBE 13864	1	
83	0002705	Belt (Flywheel) PBE 5019	1	
84	0002706	Belt (Clutch) PBE 5021	1	
85	0002707	Belt (Auto Stop) PBE 5020	1	
86		Motor Bracket PBD 1592	1	
87		Holder A Ass'y PBE 01417	1	
88		Capstan Support PBE 14431	1	
89		REC Lever PBD 1593	1	
90		Lever Holder PBC 1117	1	
91		Button Lever PBE 14419	6	
92		Inter Plate PBE 14421	2	
93		Cam Plate PBD 1587	1	
94		Spring PBE 6052	1	
95		REC Sub Plate PBE 14420	1	
96		Cassette Hold Spring PBE 14432	2	
97		Switch Plate PBE 14764	1	
98		Brake Sub Plate PBE 14825	1	
99				
100				
111	0002691	Motor EG-510-ED-2B	1	12V 2400 rpm CCW
112	0002708	Motor Pulley PBE 14442	1	
113	7190226	Rec/Play Head AM-H-226	1	
114	7190227	Erase Head AM-H-227	1	
115		Eject Lever PBE 14434	1	
116		Eject Plate PBE 14709	1	
117		Spring PBE 6058	1	
118	0002709	Leaf Switch MSW 1234	1	
119	0002710	Leaf Switch MSW 0094	1	
120	7310199	Counter AM-M-199	1	
121	0002711	Counter Belt PBE 5032	1	
122		Lug PBE 14335	1	
123		Motor Rubber PBE 13360	3	
124	0002712	Leaf Switch MSW 0058	1	
125				
151		CS Ring 2φ PGRS 20P	3	
152		CS Ring 3φ PGRS 30P	5	
153		CS Ring 4φ PGRS 40P	1	
154		E Ring 2φ PGRE 20A	1	
155		E Ring 3φ PGRE 30A	3	
156		PHDT Screw 2.6×5	6	
157		PHDT Screw 2.6×10	2	
158		PHDT Screw 3×5	9	
159		PHDT Screw 2.6×6	1	
160		PHS Screw 2.6×4	2	



Ref. No.	Stock No.	Description	Q'ty	Remarks
161		WFT Screw 2.6×6	2	
162		WFT Screw 3×6	2	
163		+ – PH Screw 2×11	2	
164		+ – PH Screw 2×8	2	
165		PH Collar Screw PBE 14823	1	
166		WF Collar Screw PBE 13913	3	
167		PHDT Screw 2×5	1	
168		FC Screw 3×5	2	
169				
170				




































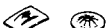


## 18. PLAYER UNIT (AM-UG-49)

FV-109HR-2

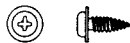
Ref. No.	Stock No.	Description	Q'ty	Remarks
1		Panel FF-UCP006HS	1	
2		Turntable Shaft FF-TTS054	1	
3		Washer FZ-WAP200	1	
4		Washer FZ-WAM129	1	
6		Washer KPW-40UF2	1	
7		Spring Washer SW-40S2	1	
8		Nut RN-40UF2	1	
9		Spring-B FF-BCP040	2	
10		Spring-A FF-BCP039	2	
11	0003310	Cushion FF-GBS016	4	
12		Lever Knob FF-ISP017	1	
13		Reject Lever (A) FF-EPT037	1	
14		Screw JZNK30060UFB	1	
15		Reject Lever Base FF-ISP026	1	
16		Spring FF-BCP028	1	
17		Lever Knob FF-ISP017	1	
18		Speed Change Lever Base FF-ISP027	1	
19		Spring FF-BCP027	1	
20		Ball Bearing SB-5-32	1	
21		Cover FF-EPT055	1	
22	0003318	Screw JNP30080UFB	2	
23		Slide Switch SL-012-104	1	
24		Bracket (Switch) FF-EPT056	1	
25		Screw JZNS26040UF	2	
26		Screw JNP30080UFB	2	
27		Cam Gear FB-GGG-260	1	
28		Link FF-EPT028	1	
29		Link (Friction) FF-EPT029	1	
30		"CS" Ring CSW-030030P	1	
31		Washer (Thrust) FZ-WAP084	1	
32		"CS" Ring CSW-040040P	2	
33		Lever Ass'y FF-ETA019	1	
34		Spring FF-BTN033	1	
35		Washer FZ-WAP010	1	
36		"E" Ring ETW-040030	1	
37		Lever-1 FF-EPT036	1	
38		Lever-2 FF-OCL004	1	
39		"CS" Ring CSW-030030P	1	
40		Link (Return) FF-EPT063	1	
41	0003346	Spring FF-BTN028	1	
42		Screw JNK30180UF2	1	
43		Stopper Ring FF-SBS006	1	
44		Screw JNK26060UF	2	
45		Washer FZ-WAP208	1	
46		"CS" Ring CSW-030030P	1	
47		Switch K2	1	
48		Switch Operate Lever FF-ETA055	1	
49		"CS" Ring CSW-030030P	2	
50		Lever FF-ISP031	1	
51		Plate Spring FF-BPP018	1	
53		Screw JNP30080UFB	1	
54		Lever Knob FF-ISP018	1	
55	0003315	Lever-A FF-ISP003	1	
56	0003477	Motor and Pulley MMI-6P2RKNF	1	FF-ETA007-D
57		Rubber Cushion FF-GBS017	3	(Motor)
58		Screw FF-ESC017	3	(Motor)
60		Screw JNP30080UFB	1	
61		PU Arm Rest FF-ISP030	1	
62		PU Arm Cramper FF-ISP002	1	
63		Screw JNP30080UFB	1	
64		PU Arm Lifter FF-ISP044	1	
65	0003352	Pin Jack FF-ETA017	1	
66	0003478	Screw JNP30080UFB	2	
67		PU Arm Ass'y PA-199S-1	1	

Ref. No.	Stock No.	Description	Q'ty	Remarks
69		Guide Roller FF-ISP023	1	
70		Reject Rod FF-ETA048	1	
71		Reject Rod Retainer FF-EPT060	1	
72		Screw JNP30080UFB	3	
73		Cord Cramp FB-EIS008	2	
75	0003312	Screw (Cramp) FF-ESC012	2	
76		Spring (Cramp) FF-BPL003	2	
77	0003476	Belt FT-GBR009	1	
78		Turntable FF-TTA107	1	
79		"E" Ring ETW-070050P	1	
80		Brand Plate FF-NPT243	1	
81	0003349	EP Adaptor FF-EAT007	1	
87	0003481	Turntable Sheet FF-TCS031	1	
88	0003479	Cartridge w/Stylus MG-1A	1	
89	0003480	Stylus CN-1	1	
90		Screw 8-1496-5	2	
91		Washer 8-1498	2	
92		Nut 8-1497	2	
93		Lifter Boss FF-SBS011	1	
94		Spring FF-BCP042	1	
95		"E" Ring ETW-020015	1	
96		"E" Ring BETW-050040	1	
97		Spring FF-BCP043	1	

# HARDWARE NOMENCLATURE

<b>FH</b> (Flat Fillister <b>H</b> ead) Screw			<b>--T</b> (--Tapping) Screw A	
<b>OH</b> (Oval Fillister <b>H</b> ead) Screw			<b>--T</b> (--Tapping) Screw B	
<b>FC</b> (Flat <b>C</b> ountersunk Head) Screw			<b>--DT</b> (-- <b>DT</b> Tapping) Screw	
<b>OC</b> (Oval <b>C</b> ountersunk Head) Screw			<b>HS</b> ( <b>H</b> exagon <b>S</b> ocket Head) Screw	
<b>RH</b> ( <b>R</b> ound <b>H</b> ead) Screw			<b>SS</b> ( <b>S</b> lotted <b>S</b> ocket Head) Screw	
<b>PH</b> ( <b>P</b> an <b>H</b> ead) Screw			E Ring	
<b>BH</b> ( <b>B</b> inding <b>H</b> ead) Screw			G Ring	
<b>TH</b> ( <b>T</b> russ <b>H</b> ead) Screw			Spring Washer	
<b>WF</b> ( <b>W</b> asher <b>F</b> aced Head) Screw			Washer (Poly-slider)	
<b>PW</b> ( <b>P</b> oly- <b>W</b> ave) Screw			<b>TL</b> ( <b>T</b> oothed <b>L</b> ock) Washer I	
<b>--S</b> (-- <b>S</b> EMS) Screw			<b>TL</b> ( <b>T</b> oothed <b>L</b> ock) Washer E	
<b>--H</b> (-- <b>H</b> IOS) Screw			Lock Washer	
<b>--W</b> (-- <b>W</b> ood) Screw			Lug Terminal	

(D) (L)  
**EXAMPLE: WFT Screw A3 x 10**



## YOUR COUNTRY

**F (X)** ..... **AFRICA**  
**CENTRAL, SOUTH (LATIN) AMERICA**  
**MIDDLE, NEAR EAST ASIA**

**L (E)**..... **WESTERN EUROPE**

**L (UK)** ..... **THE UNITED KINGDOM**

**L (GE)** ..... **WEST GERMANY**

**L (FR)**..... **FRANCE**