

# HITACHI

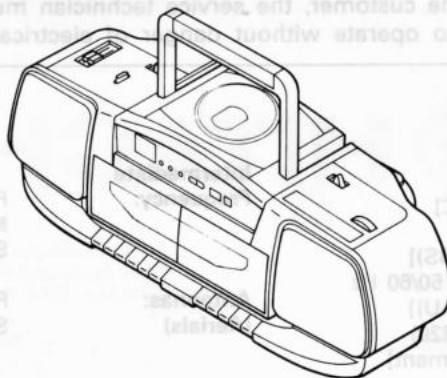
## SERVICE MANUAL

TY

No. 682E

### CX-W300

[UC,E,E(BS),W,W(UN),W(AU)]



#### CAUTION

#### DANGER

Invisible laser radiation when open and interlocks failed or defeated. AVOID DIRECT EXPOSURE TO BEAM.

#### GEFAHR

Unsichtbare Laser-Strahlung wenn Interlock (Blockierung) funktionsuntüchtig oder abgeschaltet. UNMITTELBAREN KONTAKT MIT DEM STRAHL UNBEDINGT VERMEIDEN.

#### DANGER

Faire très attention aux radiations émises par le faisceau laser invisible au défaut du verrouillage. NE JAMAIS S'EXPOSER DIRECTEMENT AU FAISCEAU.

#### VARNING

När apparaten öppnats och skyddsanordningen felar eller satts ur funktion förekommer osynlig laserstrålning. UNDVIK DIREKTE BESTRÅLING.

#### ADVARSEL

Når apparatet åbnes og beskyttelsesanordningen ikke virker eller sættes un af funktion, forekommer der usynlig laserstråling. UNDGÅ DIREKTE BESTRÅLING.

#### ADVARSEL

Når denne delen er åpen som følge av at låsen er utkoplet eller ikke fungerer, eksisterer det usynlig laserstråling. UNNGÅ Å BLI UTSATT FOR DIREKTE BESTRÅLING!

#### VARIOTIS

Laitte lähettää näkymätöntä lasersäteilyä, kun se avataan ja kun sisäiset turvalukot eivät toimi. VARO JOUTUMASTA ALTTIIKSI SÄTEILYLLE.

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SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

CD PLAYER INCORPORATED-  
HIGH PERFORMANCE PORTABLE CREATIVE SOUND SYSTEM

November 1991

YOKOHAMA WORKS

**SAFETY PRECAUTIONS**

The following precautions should be observed when servicing.

1. Since many parts in the unit have special safety-related characteristics, always use genuine Hitachi's replacement parts. Especially critical parts in the power circuit block should not be replaced with other makers. Critical parts are marked with  $\Delta$  in the circuit diagram and printed wiring board.
2. Before returning a repaired unit to the customer, the service technician must thoroughly test the unit to ascertain that it is completely safe to operate without danger of electrical shock.

**SPECIFICATIONS**

**• GENERAL SECTION**

**Power Supply:** AC: 120V, 60 Hz [for UC]  
 AC: 230V, 50 Hz [for E]  
 AC: 240V, 50 Hz [for E(BS)]  
 AC: 110-120V/220-240V, 50/60 Hz [for W, W(UN), W(AU)]  
 DC: 9V ["D" CELL (IEC R20) SUM1 x 6 or equipment]

**Power Consumption:** 16 W

**Power Output:** 20 W P.M.P. (AC operation)  
 3 W x 2 (10% T.H.D. DC operation)

**Speakers:** 10 cm x 2  
 3  $\Omega$

**Dimensions:** 550 (W) x 185 (H) x 196 (D) mm

**Weight:** 4.5 kg (with batteries)

**Intermediate Frequency:**

FM: 10.7 MHz  
 MW/LW: 465 kHz [for E(BS)]  
 SW/MW/LW: 455 kHz [except E(BS)]

**Antennas: (Aerials)**

FM/SW/SW2: Rod antenna  
 SW/MW/LW: Built in ferrite antenna

**• RADIO SECTION**

**Circuit System:** FM/MW/LW-3bands superheterodyne [for E, E(BS)]  
 FM/SW/MW-3bands superheterodyne [for W, W(UN), W(AU)]  
 FM/MW-2bands superheterodyne [for UC]

**Tuning Range:** FM: 87.5 to 108.5 MHz [except UC]  
 FM: 88 to 108 MHz [for UC]  
 SW: 3.9 to 12 MHz [for E, E(BS)]  
 MW: 520 to 1,620 kHz [except UC]  
 MW: 520 to 1,740 kHz [for UC]  
 LW: 148 to 287 kHz [for E, E(BS)]

**• TAPE RECORDER SECTION**

**Tape:** Cassette tape

**Track System:** 4 tracks 2 channels stereo

**Tape Speed:** 4.75 cm/sec.

**Recording System:** AC bias 70 kHz

**Erasing System:** Magnet

**Frequency Response:** Normal: 70 to 10,000 Hz

**Output:** CD out: 0.5V 1 k $\Omega$

**Load Impedance:** Headphones: 8 to 100  $\Omega$   
 Speaker : 3  $\Omega$

**• CD PLAYER SECTION**

**Playing Time:** Approx. 60 minutes/one side

**Diameter:** 120 mm/80 mm

**Sampling Frequency:** 44.1 kHz

**Quantization Number:** 16 bit linear/channel

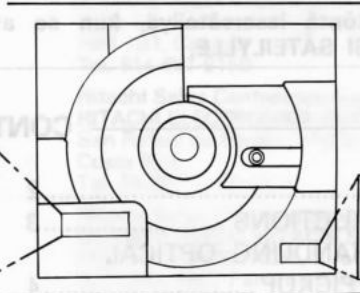
**Frequency Response:** 20 to 20,000 Hz

Specifications are subject to change without notice for performance improvement.

**The caution labels on laser usage.**

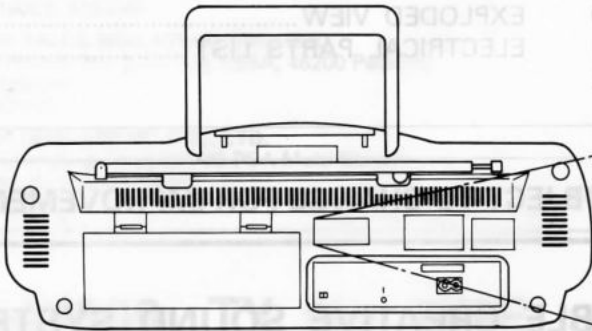
• NEVER TOUCH THE LENS.  
 • NE JAMAIS TOUCHER L'OBJECTIF.  
 • DIE LINSE NIEMALS BERÜHRENI.  
 • NO TOQUE NUNCA LALENTE.

[for E, E (BS) , W, W (UN) , W (AU) , ]



**DANGER**  
 INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED. AVOID DIRECT EXPOSURE TO BEAM.  
 RADIATION LASER INVISIBLE LORSQUE LE BŒTIER EST OUVERT ET QUE LE VERROUILLAGE EST DÉFECTUEUX OU CIRCONTOURNÉ. ÉVITER L'EXPOSITION DIRECTE DU LE RAYON.

[for UC]



[for E, E (BS) , W, W (UN) , W (AU) , ]

**CLASS 1  
 LASER PRODUCT**

## DISASSEMBLY INSTRUCTIONS

1. Open the cassette covers and take out the cassette tapes.
2. Remove the battery cover and batteries.
3. Remove eight screws (A) holding the rear cabinet.

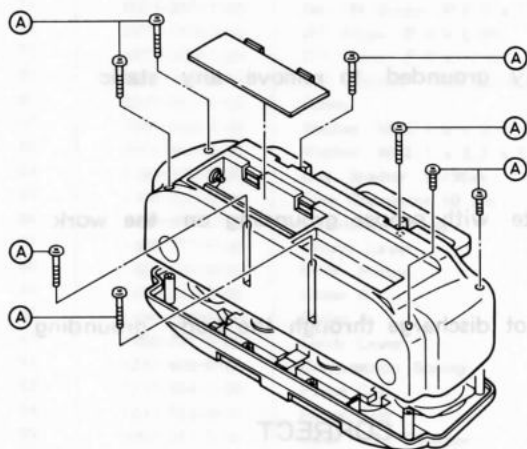


Figure 1

8. Remove four screws (H) holding the main PCB.
9. Remove the volume control panel.
10. Remove one screw (G) holding the select switch arm.

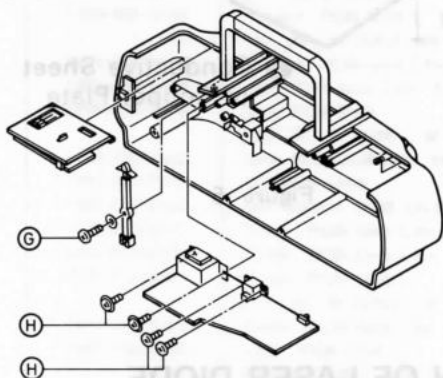


Figure 3

4. Remove two screws (B) and two screws (C) holding the CD mechanism kit.
5. Remove two screws (D) holding the CD PCB.
6. Remove four screws (E) holding the CD mechanism.
7. Remove two screws (F) holding the tuner chassis.

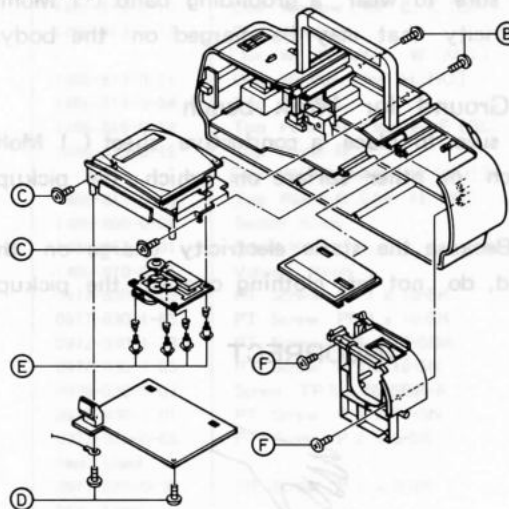


Figure 2

11. Remove six screws (I) holding the cassette mechanism.

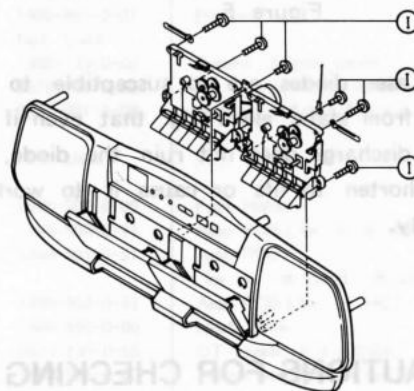
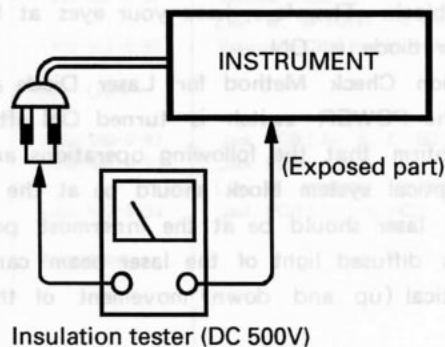


Figure 4

Check that exposed parts are acceptably insulated from the supply circuit before returning the instrument repaired to the customer.

### • Checking method

Power (Operate) switch is set to ON.  
Next, measure the resistance value between the both poles of attachment cup (Power supply plug) and the CD OUT terminal of rear plate and check that the resistance value is 500 kohms or more.



Insulation tester (DC 500V)



## INSTRUCTION FOR HANDLING OPTICAL SYSTEM BLOCK PICKUP

Electrostatic breakdown of the laser diode in the optical system block may occur due to a potential difference caused by electrostatic charge accumulated on clothing, human body, etc.

A ground must be provided as follows to prevent any electrostatic charge during unpacking or repair work.

### 1. Ground for Human Body

Be sure to wear a grounding band ( 1 Mohm) that is properly grounded to remove any static electricity that may be charged on the body.

### 2. Ground for Work bench

Be sure to place a conductive sheet ( 1 Mohm) or copper plate with proper grounding on the work bench or other surface on which the pickup is to be placed.

3. Because the static electricity charge on the clothing does not discharge through the body grounding band, do not let clothing contact the pickup unit.

#### INCORRECT



Figure 5

Note: Laser diodes are so susceptible to damage from static electricity that even if a static discharge does not ruin the diode, it can shorten its life or cause it to work improperly.

#### CORRECT

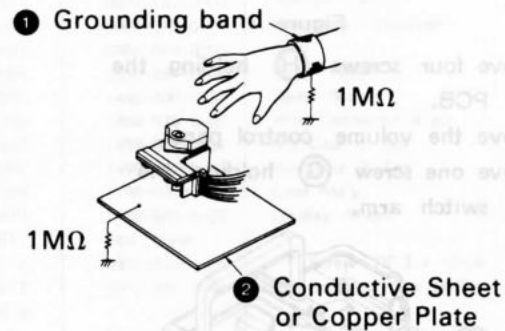


Figure 6

## PRECAUTIONS FOR CHECKING BEAM EMISSION OF LASER DIODE

The laser beam of this unit is focused on the reflecting surface of the objective lens in the optical system block. Therefore, keep your eyes at least 12 inches (30 cm) away from the objective lens when the laser diode is ON.

[Operation Check Method for Laser Diode and Focus Search Function]

When the POWER switch is turned ON after the chucking arm is removed, observe the objective lens and confirm that the following operations are performed properly.

(The optical system block should be at the lead-in area position when it is checked at this time.)

(1) The laser should be at the innermost position after the chucking arm is removed.

(2) This diffused light of the laser beam can be seen when the POWER switch is turned ON.

(3) Vertical (up and down) movement of the objective lens (2 or 3 times) will take place.



## PICKUP REPLACEMENT

### Caution:

Laser diodes are extremely susceptible to damage from static electricity.

Even if a static discharge does not ruin the diode, it can shorten its life or cause it to work improperly.

When replacing the pickup, use a conductive mat, a grounded soldering iron, and so on, to protect the laser diode from static damage.

1. Remove the CD mechanism assembly by referring to disassembly instructions.

2. Remove two screws (A) holding the CD PCB. (See Figure 8.)

3. Remove four screws (B) holding the CD mechanism. (See Figure 8.)

4. Remove washer (D) holding the gear and remove the gear. (See Figure 9.)

5. Remove two screws (E). (see Figure 9.)

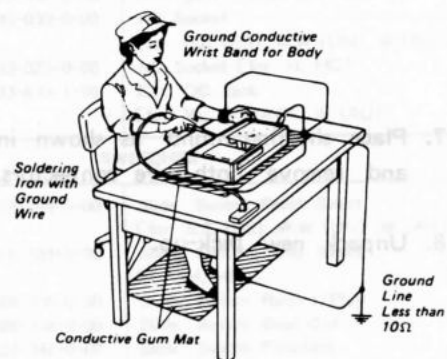


Figure 7

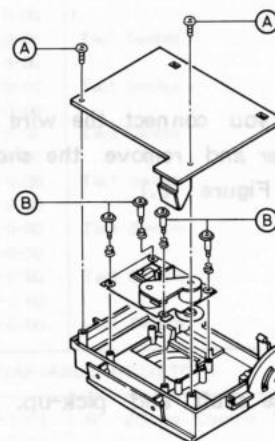


Figure 8

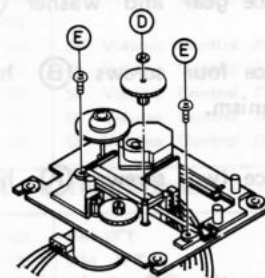


Figure 9

6. Take out the pick-up ①. Then pull out the shaft ②. (See Figure 10.)

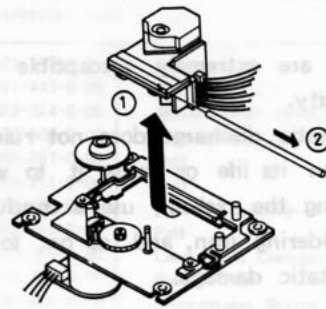


Figure 10

7. Place shorting round as shown in Figure 11 and remove both wire connectors.

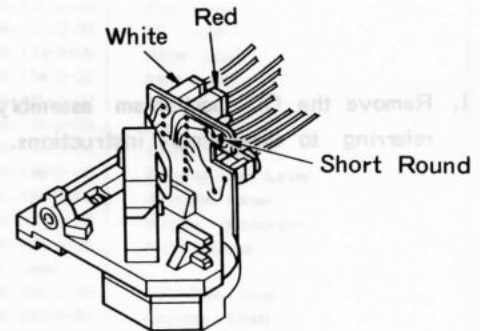


Figure 11

8. Unpack new pick-up.

9. After you connect the wire connectors, desolder and remove the shorting tab. (See Figure 12.)

KSS-210B

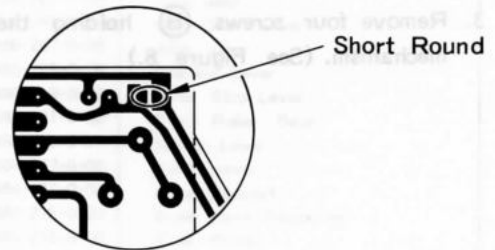


Figure 12

10. Replace shaft and pick-up.
11. Replace two screws ⑤.
12. Replace gear and washer ④.
13. Replace four screws ③ holding the CD mechanism.
14. Replace two screws ② holding the CD PDB.
15. Replace the CD mechanism chassis.

## DIAL POINTER SETTING

1. Remove the tuner chassis.
2. Turn the PVC gear counterclockwise.
3. Turn the tuning knob and slide the pointer to the check position on the tuner chassis.
4. Replace the tuner chassis.

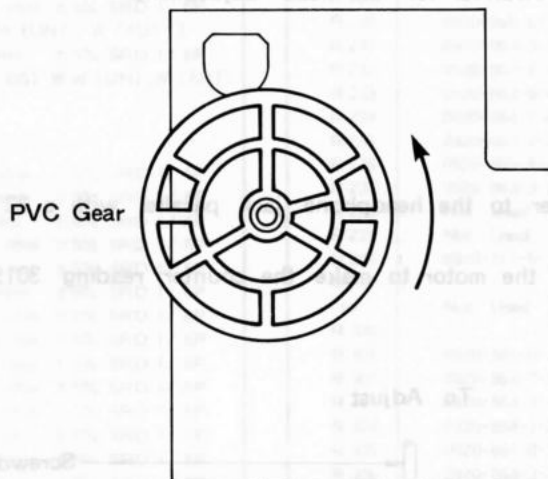
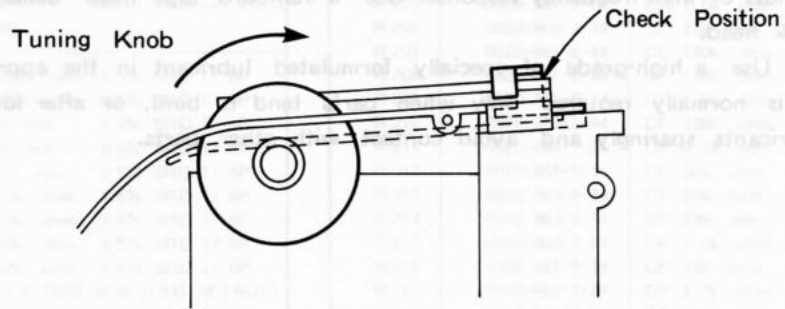


Figure 13

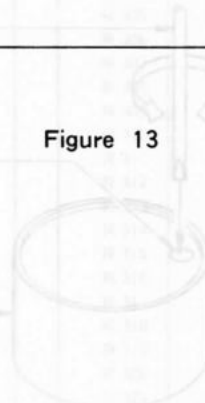


Figure 14



Whenever a unit is brought in for service or repair, it should be cleaned and lubricated and the head should be demagnetized.

1. **Cleaning:** Clean the head and all tape handling surfaces using standard cleaner and cotton swabs. Wipe dry.
2. **Demagnetization:** Do not use magnetized tools near the head, since they can magnetize it. With normal use, the head will retain small amounts of residual magnetism which results in increased noise and loss of high-frequency response. Use a standard tape head demagnetizer to demagnetize the playback head.
3. **Lubrication:** Use a high-grade of specially formulated lubricant in the appropriate places. Lubrication is normally required only when parts tend to bind, or after long periods of use. Use all lubricants sparingly and avoid contact with other parts.

### Pre-Adjustment Procedures

1. Be sure to demagnetize and clean the head before proceeding with head adjustment.
2. Never use a magnetized screwdriver for the head adjustment.

### Tape Speed (Figure 14)

1. Remove the front cabinet.
2. Connect a frequency counter to the headphone jack parallel with a 32 ohm non-reactive dummy load.
3. Adjust the pot, resistor in the motor to make the counter reading 3015 Hz while playing back 3000 Hz test tape.

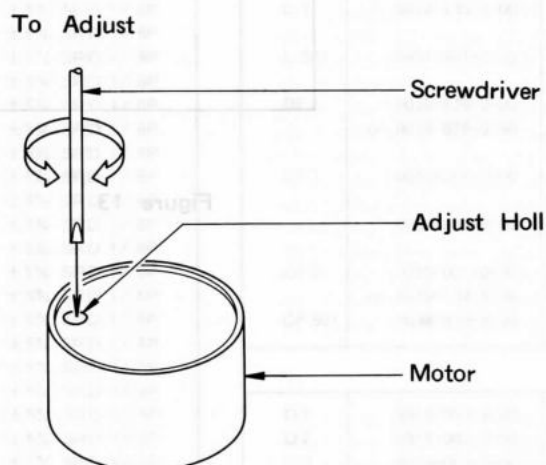


Figure 14

**Playback Head Azimuth Adjustment (Cassette 1) (Figure 15)**

1. Connect an SSVM or oscilloscope to each of the headphones jack (dummy load 32 ohm) .
2. Playback an 8 kHz test tape and turn the azimuth adjustment screw to obtain the maximum output level of the left and right channels, in the forward and reverse play modes.
3. When the output level of the left and right channels, and forward and reverse position differs, readjust to make the both channels, and both directions at the same level.
4. After adjustment, secure the screw with lock paint or glue.

**Record/Playback Head Azimuth Adjustment (Cassette 2) (Figure 15)**

1. Connect an SSVM or oscilloscope to each of the headphone jack (dummy load 32 ohm) .
2. Playback an 8 kHz test tape and turn the azimuth adjustment screw to obtain the maximum output level of the left and right channels.
3. When the output level of the left and right channels differs, readjust to make the both channels at the same level.
4. After adjustment, secure the screw with lock paint or glue.

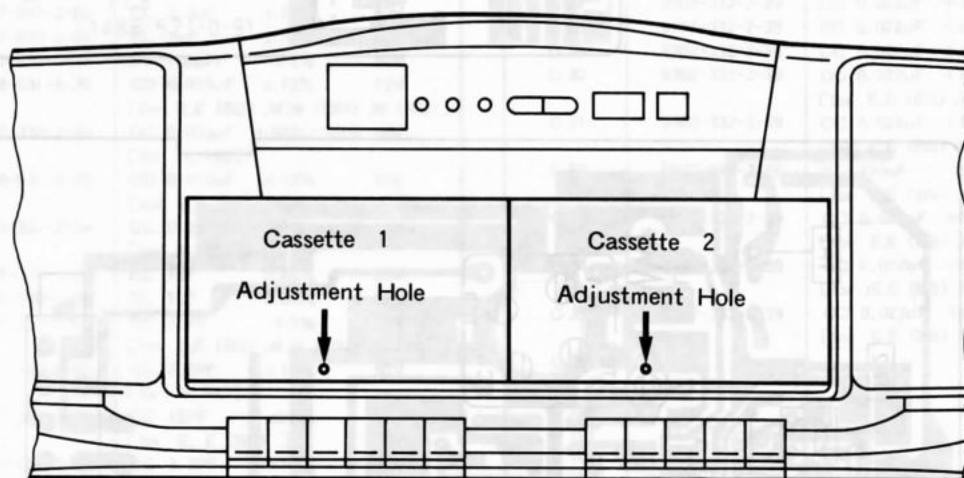


Figure 15

TEST POINT LOCATIONS (TUNER)

[for E, E (BS) , W, W (UM) , W (AU) ]

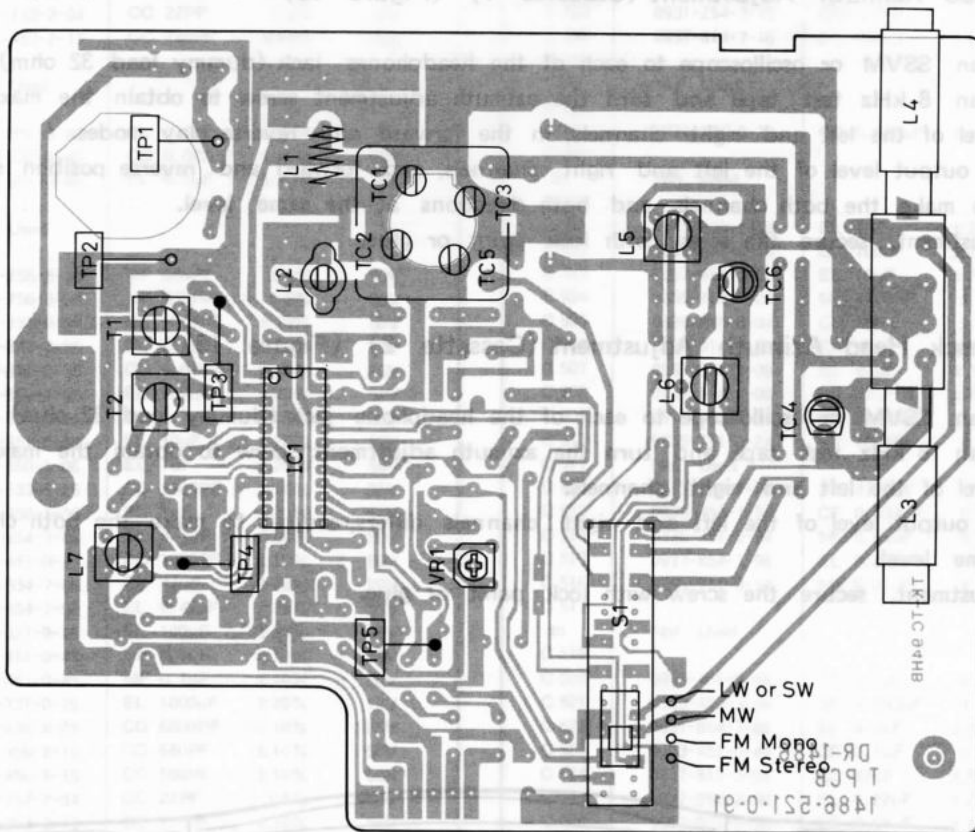


Figure 16

[for H, HC]

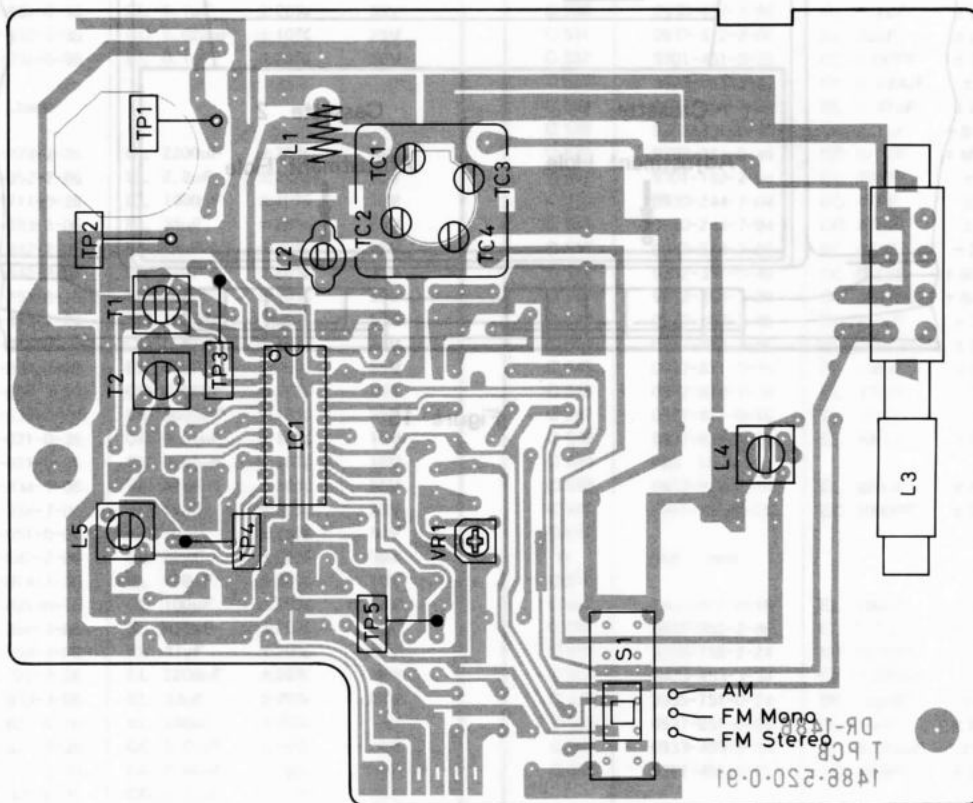


Figure 17



TUNER ALIGNMENT SET UP

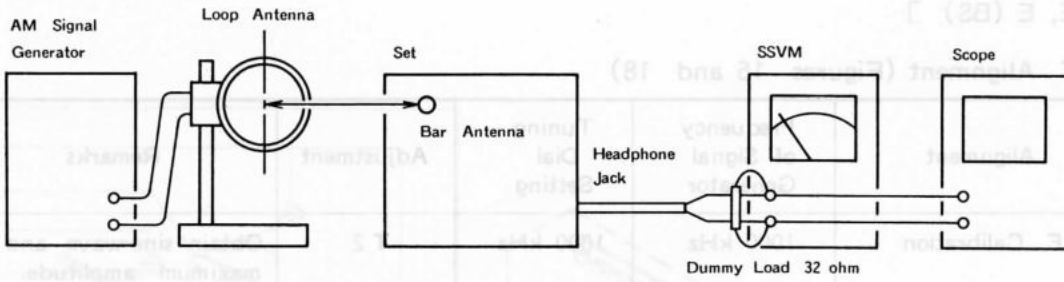


Figure 18

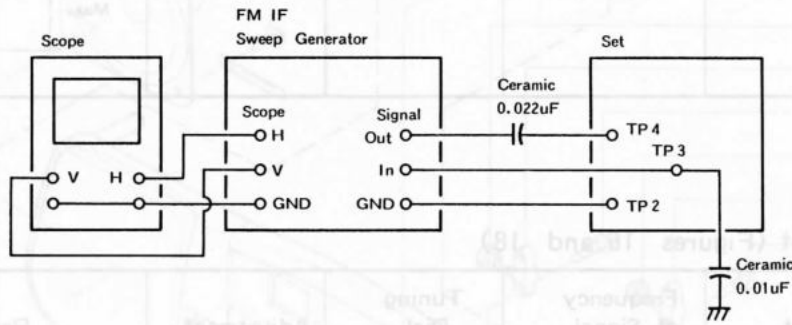


Figure 19

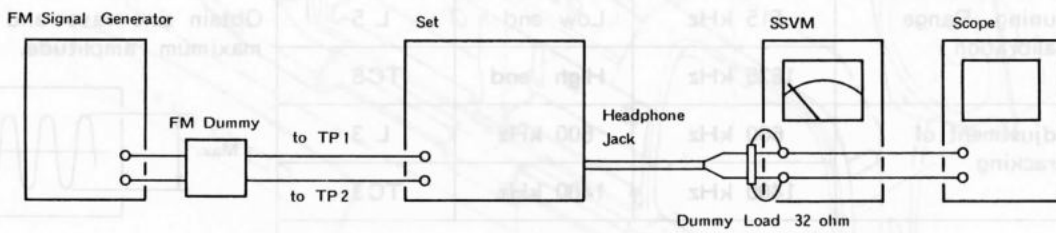
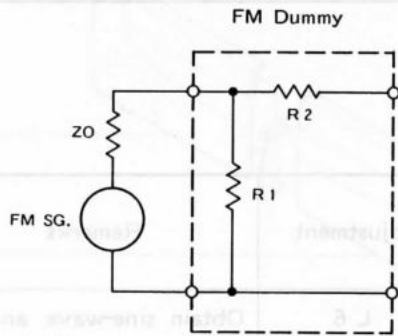


Figure 20



$R1 = Z0$   $Z0 =$  Output impedance of FM SG.  
 $R2 = 75 \text{ ohm} - Z0 / 2$

Figure 21

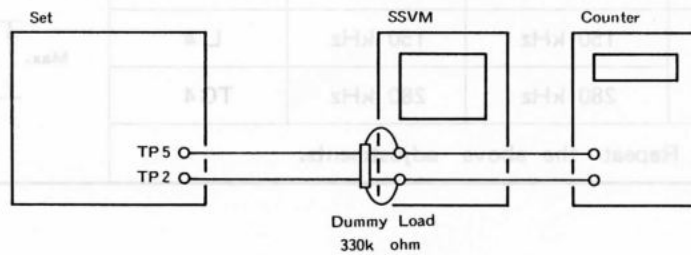


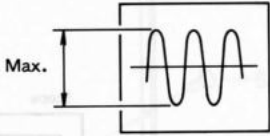
Figure 22

TUNER ALIGNMENT

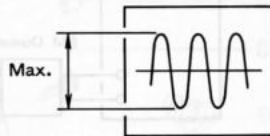
TUNER ALIGNMENT SET UP

[ for E, E (BS) ]

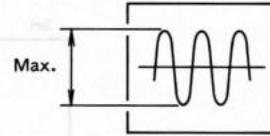
AM IF Alignment (Figures 16 and 18)

Step	Alignment	Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
	IF Calibration	1000 kHz	1000 kHz	T 2	Obtain sine-wave and maximum amplitude. 

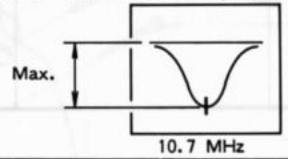
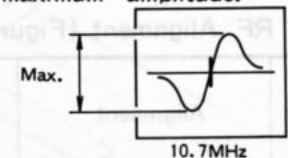
MW RF Alignment (Figures 16 and 18)

Step	Alignment	Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
1	Tuning Range Calibration	515 kHz	Low end	L 5	Obtain sine-wave and maximum amplitude. 
2		1635 kHz	High end	TC5	
3	Adjustment of Tracking	600 kHz	600 kHz	L 3	
4		1400 kHz	1400 kHz	TC3	
5	Repeat the above adjustments.				

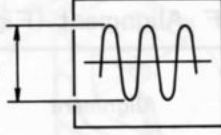
LW RF Alignment (Figures 16 and 18)

Step	Alignment	Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
1	Tuning Range Calibration	145 kHz	Low end	L 6	Obtain sine-wave and maximum amplitude. 
2		290 kHz	High end	TC6	
3	Adjustment of Tracking	150 kHz	150 kHz	L 4	
4		280 kHz	280 kHz	TC4	
5	Repeat the above adjustments.				

## FM IF Alignment (Figures 16 and 19)

Step	Alignment	Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks	
1	IF Calibration	10.7 MHz	Low End	Turn L 7 fully counter clockwise.		
2				T 1	Obtain symmetrical curve and maximum amplitude.	
3				L 7	Obtain S curve and maximum amplitude.	

## FM RF Alignment (Figures 16, 20 and 21)

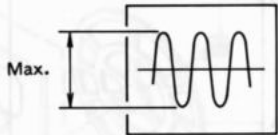
Step	Alignment	Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
1	Tuning Range Calibration	87.35 MHz	Low end	L 2	Obtain sine-wave and maximum amplitude.
2		108.25 MHz	High end	TC2	
3	Adjustment of Tracking	90 MHz	90 MHz	L 1	
4		106 MHz	106 MHz	TC1	
5	Repeat the above adjustments.				



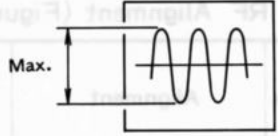
**TUNER ALIGNMENT**

[ for W, W (UN) , W (AU) ]

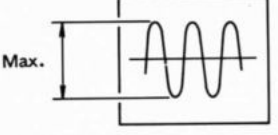
**AM IF Alignment (Figures 16 and 18)**

Step	Alignment	Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
	IF Calibration	1000 kHz	1000 kHz	T 2	Obtain sine-wave and maximum amplitude. 


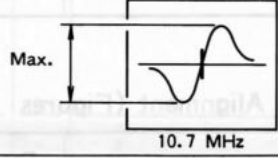
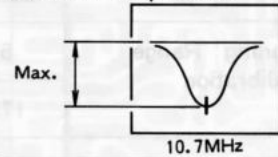
**MW RF Alignment (Figures 16 and 18)**

Step	Alignment	Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
1	Tuning Range Calibration	515 kHz	Low end	L 5	Obtain sine-wave and maximum amplitude. 
2		1635 kHz	High end	TC5	
3	Adjustment of Tracking	600 kHz	600 kHz	L 3	
4		1400 kHz	1400 kHz	TC3	
5	Repeat the above adjustments.				

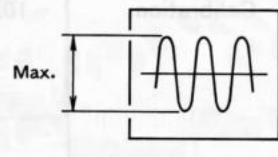
**SW RF Alignment (Figures 16 and 18)**

Step	Alignment	Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
1	Tuning Range Calibration	3.8 MHz	Low end	L 6	Obtain sine-wave and maximum amplitude. 
2		12.3 MHz	High end	TC6	
3	Adjustment of Tracking	5 MHz	5 MHz	L 4	
4		10 MHz	10 MHz	TC4	
5	Repeat the above adjustments.				

FM IF Alignment (Figures 16 and 19)

Step	Alignment	Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks	
1	IF Calibration 	10.7 MHz	Low End	Turn L 7 fully counter clockwise.		
2				T 1		Obtain symmetrical curve and maximum amplitude. 
3				L 7		Obtain S curve and maximum amplitude. 

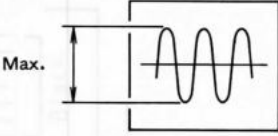
FM RF Alignment (Figures 16, 20 and 21)

Step	Alignment	Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
1	Tuning Range Calibration	87.35 MHz	Low end	L 2	Obtain sine-wave and maximum amplitude. 
2		108.25 MHz	High end	TC2	
3	Adjustment of Tracking	90 MHz	90 MHz	L 1	
4		106 MHz	106 MHz	TC1	
5	Repeat the above adjustments.				

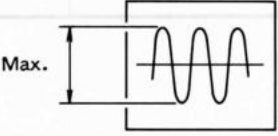
**TUNER ALIGNMENT**

[for H, HC]

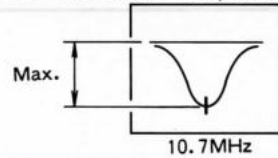
**AM IF Alignment (Figures 17 and 18)**

Step	Alignment	Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
	IF Calibration	1000 kHz	1000 kHz	T 2	Obtain sine-wave and maximum amplitude. 

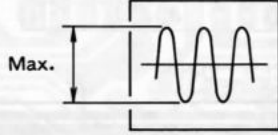
**MW RF Alignment (Figures 17 and 18)**

Step	Alignment	Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
1	Tuning Range Calibration	515 kHz	Low end	L 4	Obtain sine-wave and maximum amplitude. 
2		1750 kHz	High end	TC4	
3	Adjustment of Tracking	600 kHz	600 kHz	L 3	
4		1400 kHz	1400 kHz	TC3	
5	Repeat the above adjustments.				

**FM IF Alignment (Figures 17 and 19)**

Step	Alignment	Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
1	IF Calibration	10.7 MHz	Low End	Turn L 5 fully counter clockwise.	Obtain symetrical curve and maximum amplitude. 
2				T 1	
3				L 5	

## FM RF Alignment (Figures 16, 20 and 21)

Step	Alignment	Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
1	Tuning Range Calibration	87.5 MHz	Low end	L 2	Obtain sine-wave and maximum amplitude. 
2		108.5 MHz	High end	TC2	
3	Adjustment of Tracking	90 MHz	90 MHz	L 1	
4		106 MHz	106 MHz	TC1	
5	Repeat the above adjustments.				

[for E, E (BS) , W, W (UN) , W (AU) , H, HC]

## FM Stereo Adjustment (Figures 16, 17 and 22)

Function Switch :RADIO position  
Radio Switch :FM STEREO position

Adjust VR1 on the Tuner PCB for a frequency counter read 76 kHz.

## Remarks:

- 1) When aligning FM IF, the symmetrical curve may not be obtained by setting the marker of the sweep generator (10.7 MHz) . This is due to the ceramic filter used in the unit. Regardless of the marker, align the curve as symmetrically as possible with peak output.
- 2) When aligning the range and adjusting the tracking, proceed with alignment in a sequence of FM→MW→LW [for E, E (BS) ] , FM→SW→MW [for W, W (UN) , W (AU) ] , FM→MW [for H, HC] .
- 3) Use a screwdriver with a plastic grip for all alignments.

TEST POINT LOCATIONS (CD)

Equipment Required

SSVM

Frequency Counter

Oscilloscope

A Regular Compact Disc

Test Disc PHILIPS 5A

Test Disc SONY YEDS-18

Dummy load 10k ohm

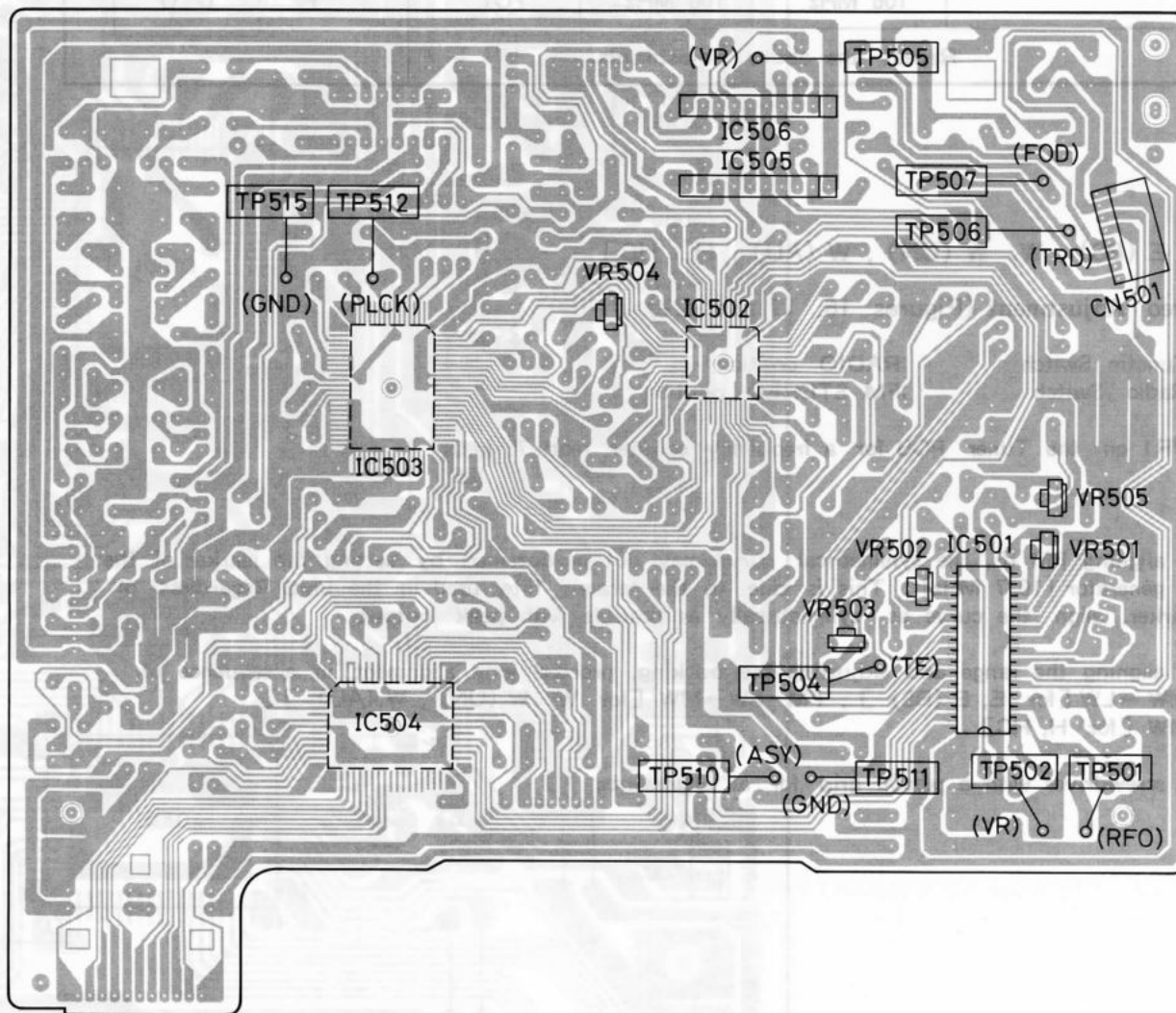


Figure 23



CIRCUIT ADJUSTMENT

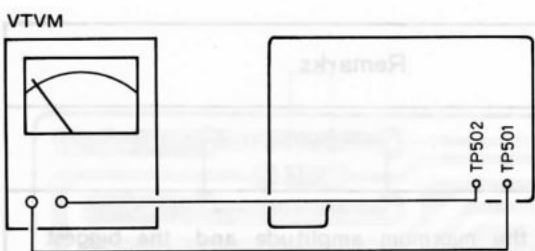


Figure 24

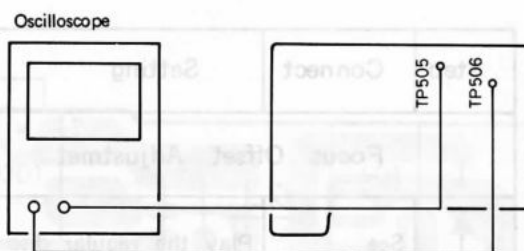


Figure 27

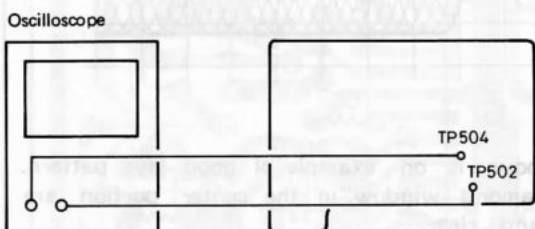


Figure 25

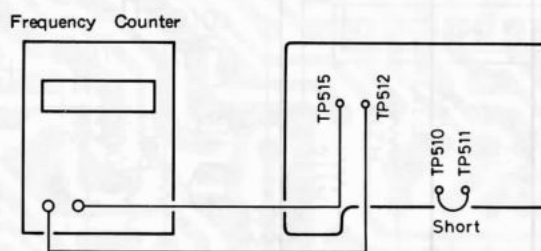


Figure 28

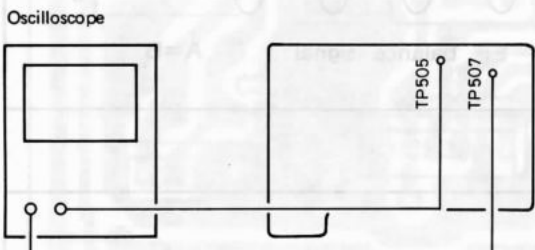
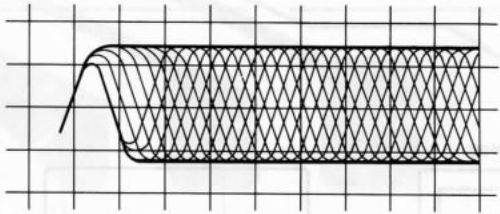
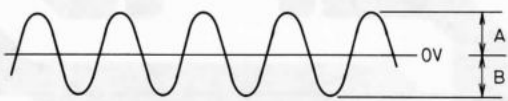



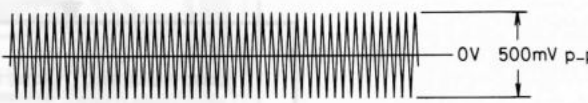
Figure 26

**CIRCUIT ADJUSTMENT**

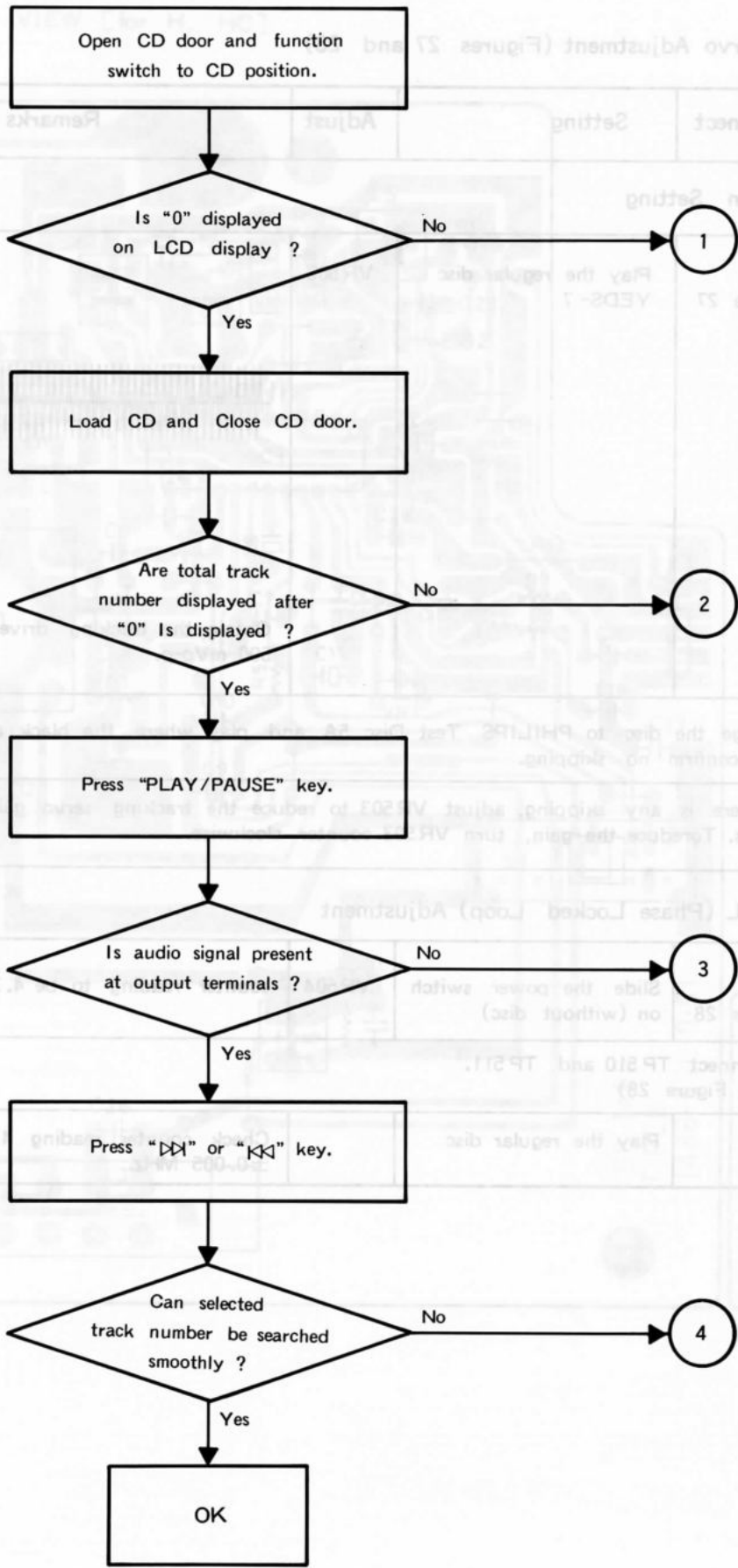
Focus Servo Adjustmet (Figures 24, 25 and 26)

Step	Connect	Setting	Adjust	Remarks
<b>Focus Offset Adjustmet</b>				
1	See Figure 24	Play the regular disc	VR502	<p>Obtain the maxmum amplitude and the biggest diamond windows of the eye pattern.</p>  <p>The above is on example of good eye pattern. The diamond window in the center portion are large and clear.</p>
<b>EF Balance Adjustment</b>				
1	See Figure 25	Play the regular disc	VR501	 <p>EF balance signal      A=B</p>
2		Push the "▶▶" key		
<b>Gain Setting</b>				
1	See Figure 26	Play the regular disc	VR505	 <p>Focus error signal of about 100 mVp-p</p>
2	To increase the focus gain, turn VR505 counter clockwise			

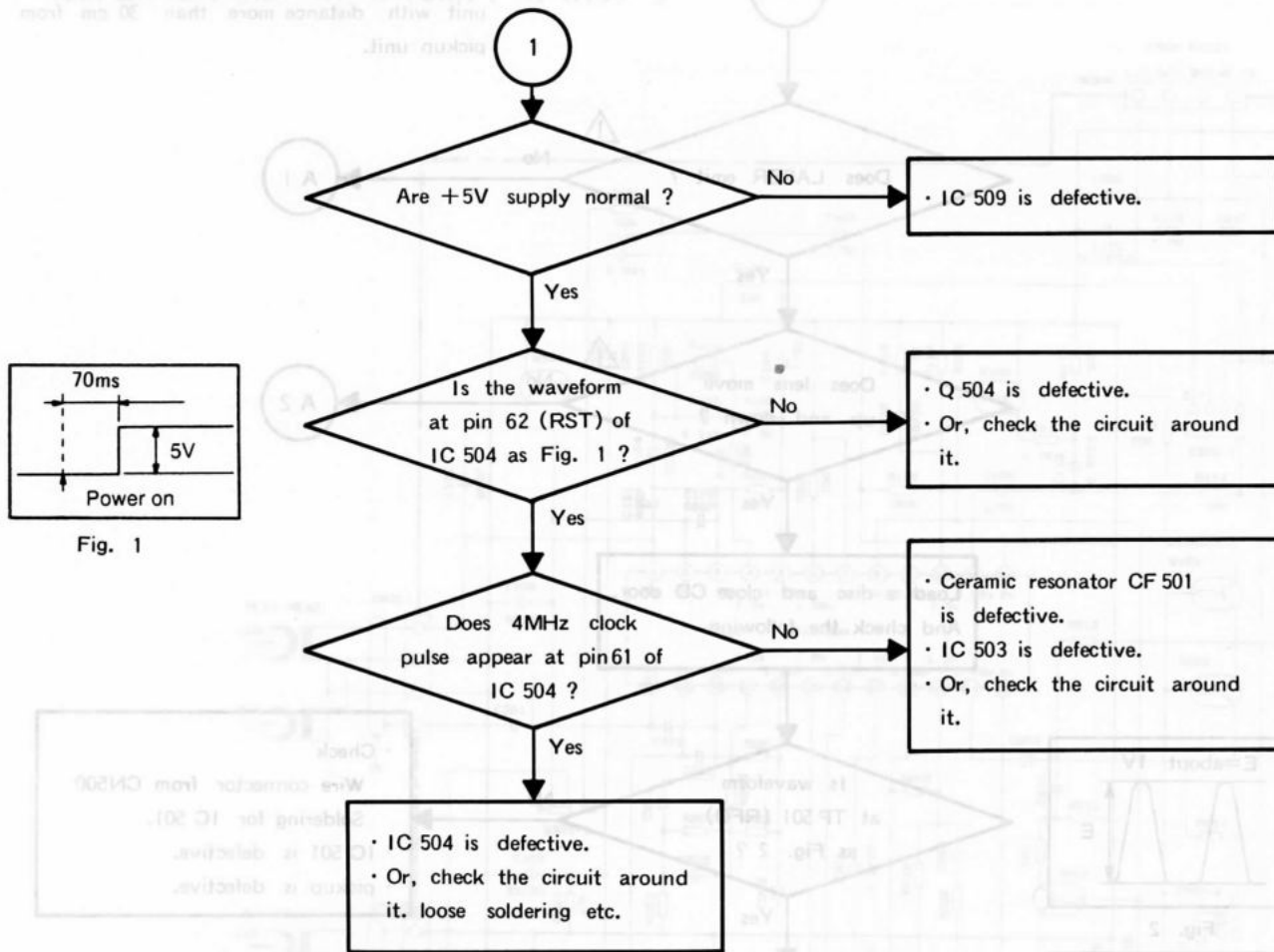
## Tracking Servo Adjustment (Figures 27 and 28)

Step	connect	Setting	Adjust	Remarks
<b>Gain Setting</b>				
1	See Figure 27	Play the regular disc YEDS-7	VR503	 <p>Obtain the tracking drive signal of about 500 mVp-p.</p>
2	Change the disc to PHILIPS Test Disc 5A and play where the black dot of 600 $\mu\text{m}$ is, and confirm no skipping.			
3	If there is any skipping, adjust VR503 to reduce the tracking servo gain till no skipping occurs. To reduce the gain, turn VR503 counter clockwise.			
<b>PLL (Phase Locked Loop) Adjustment</b>				
1	See Figure 28	Slide the power switch on (without disc)	VR504	counter reading to be 4.32 MHz. $\pm 30$ kHz $-10$ kHz
2	Disconnect TP 510 and TP 511. (See Figure 28)			
3		Play the regular disc		Check counter reading 4.3218 MHz $\pm 0.005$ MHz.

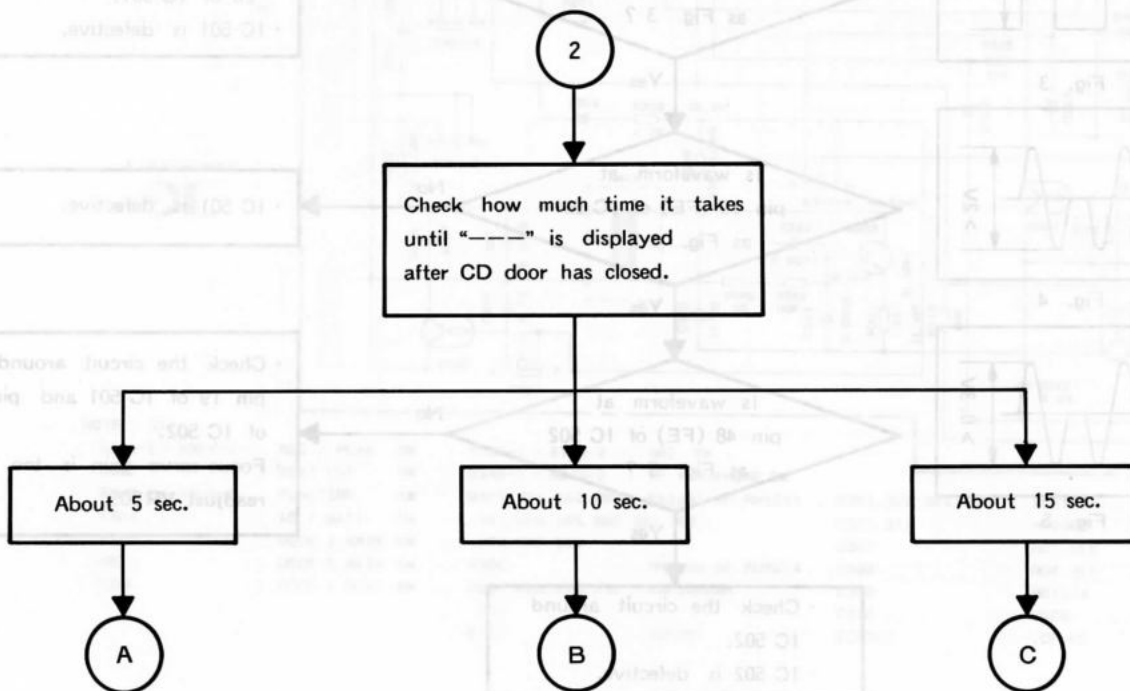
TROUBLESHOOTING CHARTS



[Repair Item 1] At power on, "0" is not displayed.



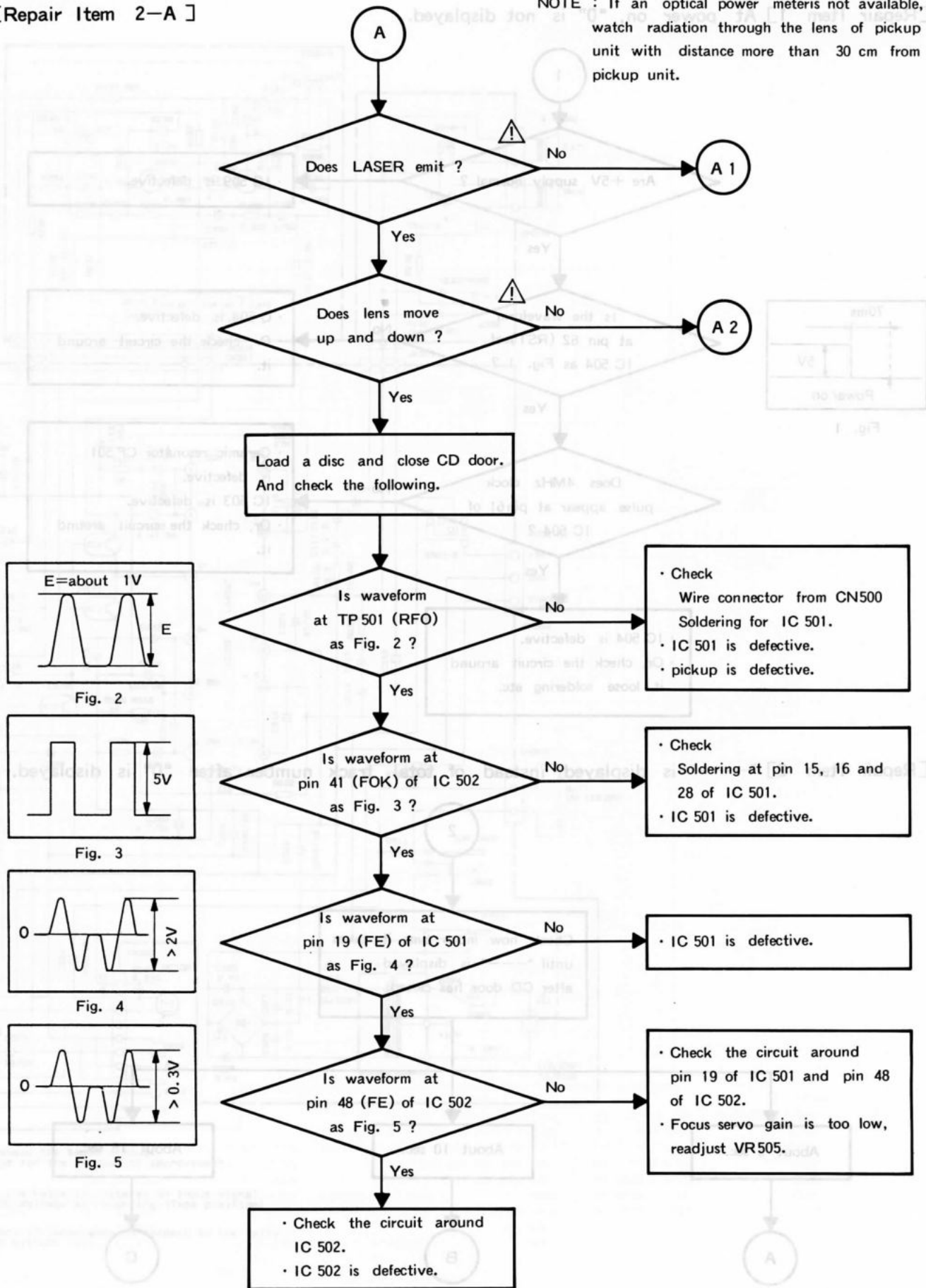
[Repair Item 2] "----" is displayed instead of total track number after "0" is displayed.



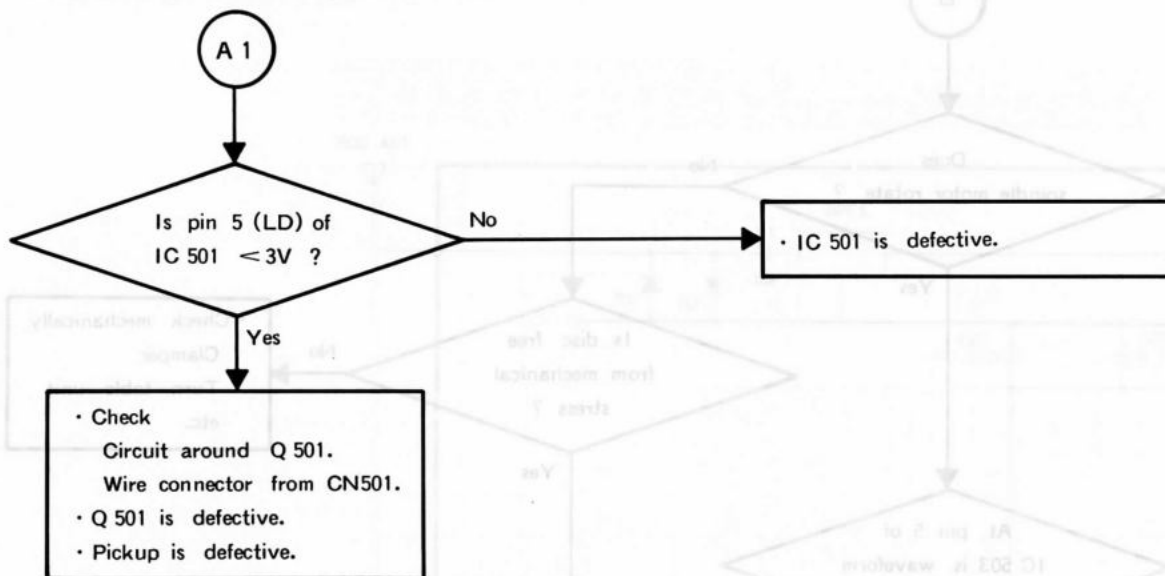


[Repair Item 2-A]

NOTE : If an optical power meter is not available, watch radiation through the lens of pickup unit with distance more than 30 cm from pickup unit.



[Repair Item 2-A 1] LASER does not emit.



[Repair Item 2-A 2] Object lens of pickup unit does not move up and down.

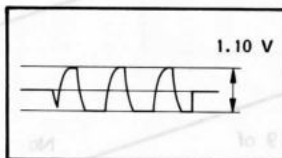
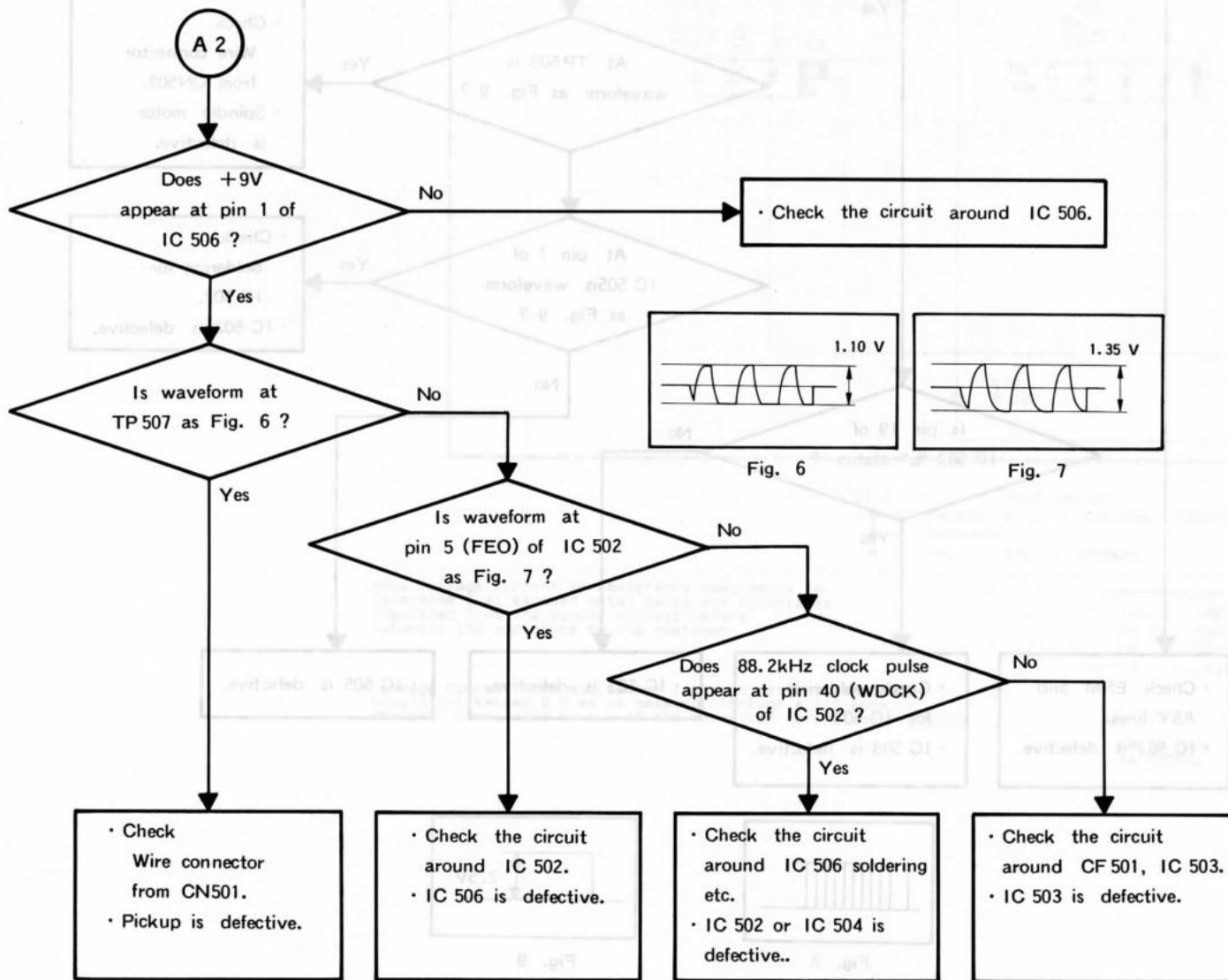


Fig. 6

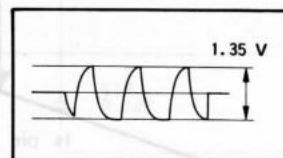
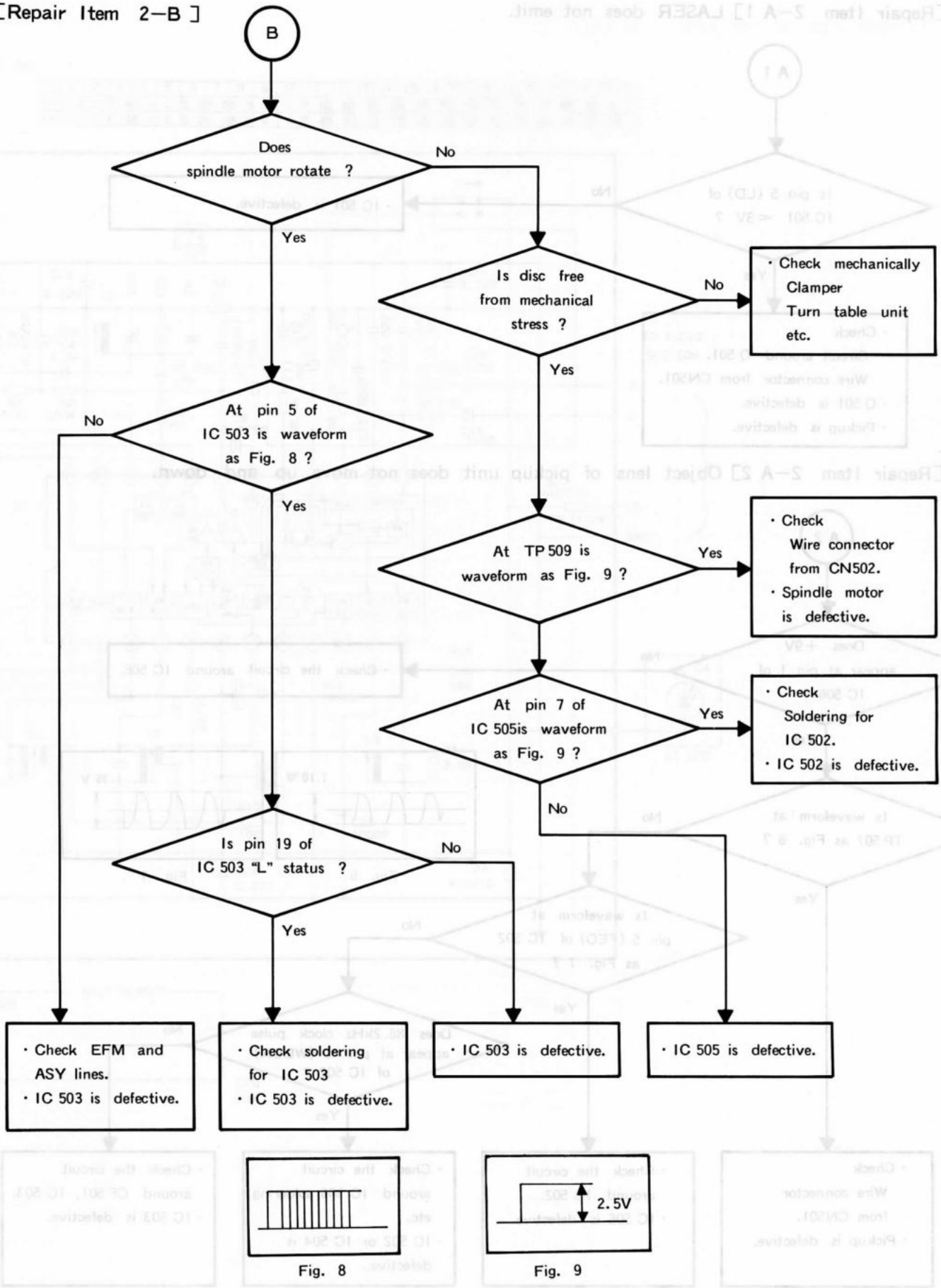


Fig. 7

[Repair Item 2-B]



[Repair Item 2-C]

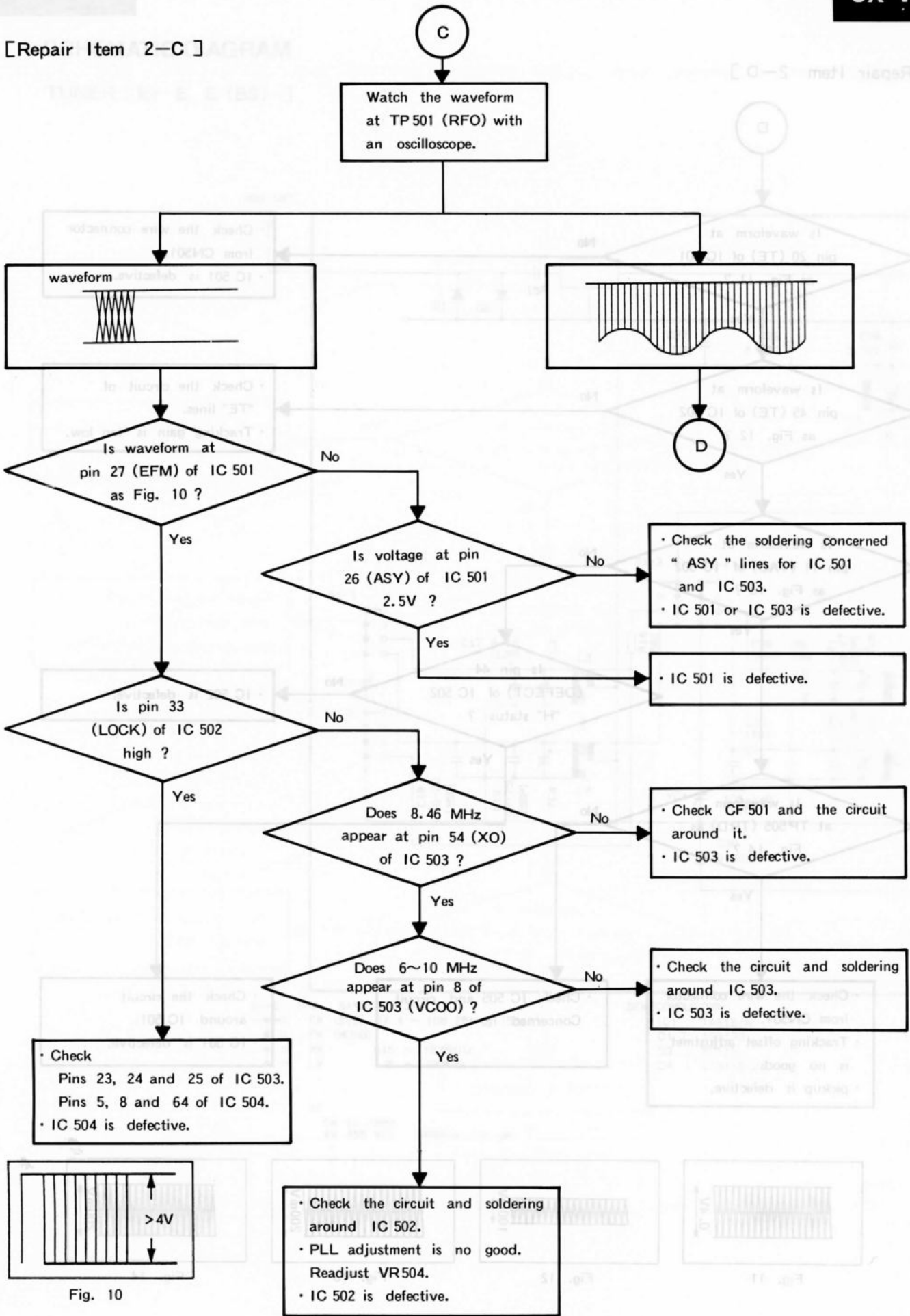


Fig. 10

[Repair Item 2-D]

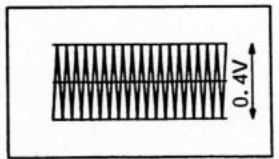
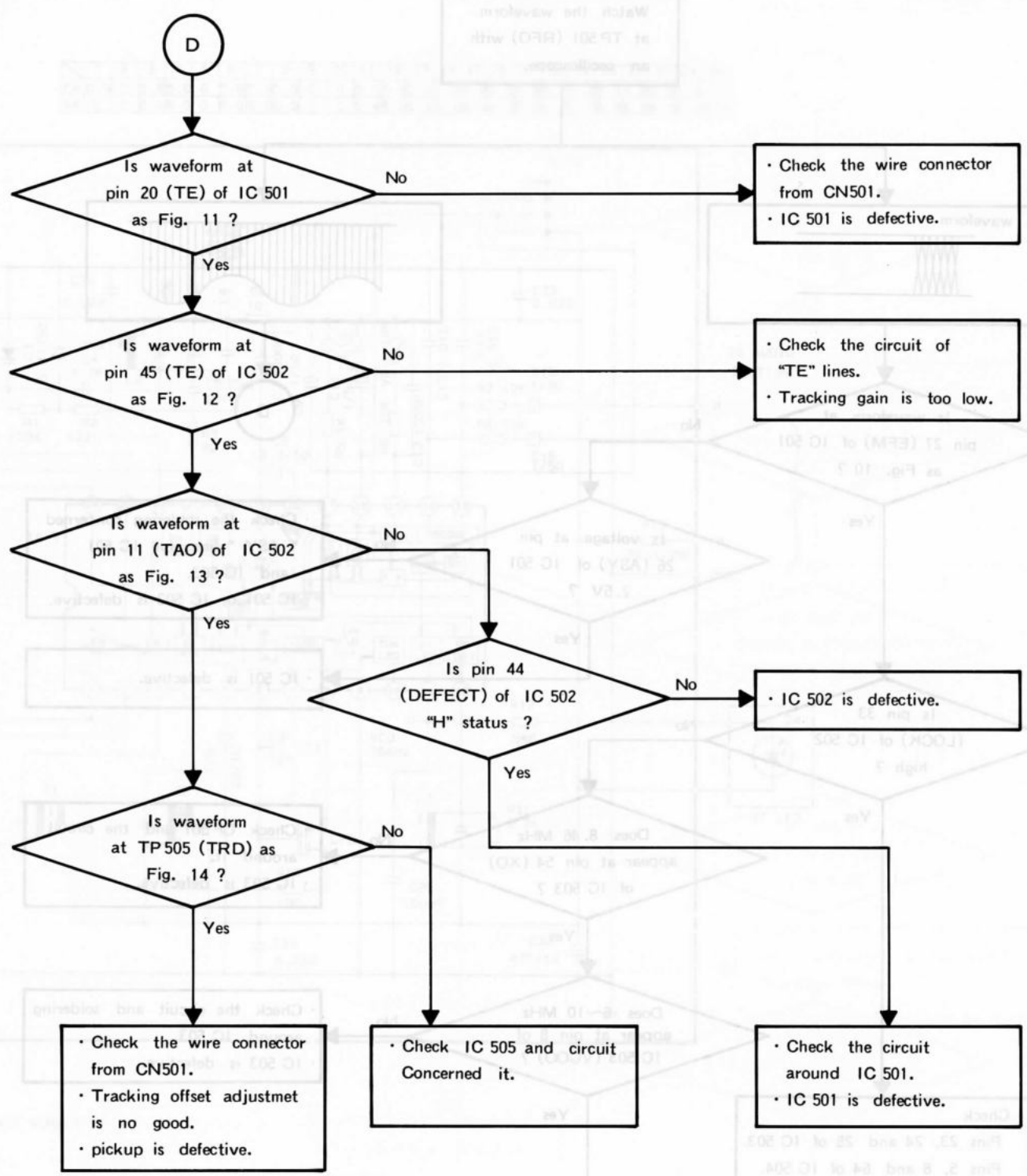


Fig. 11

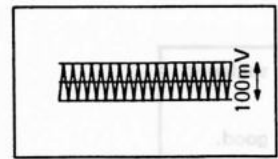


Fig. 12

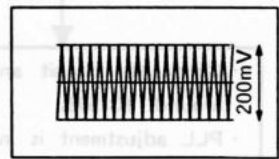


Fig. 13

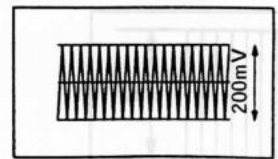
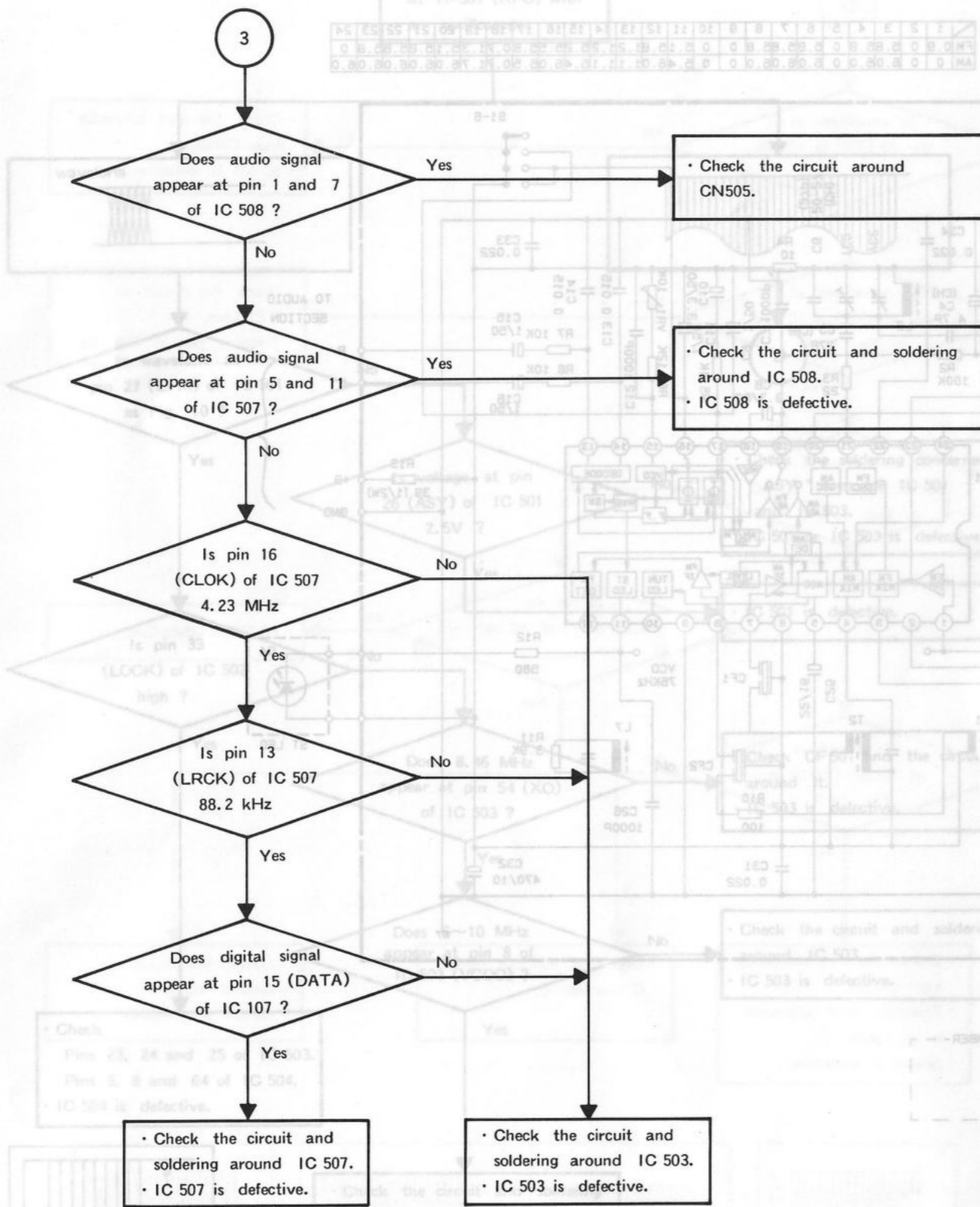


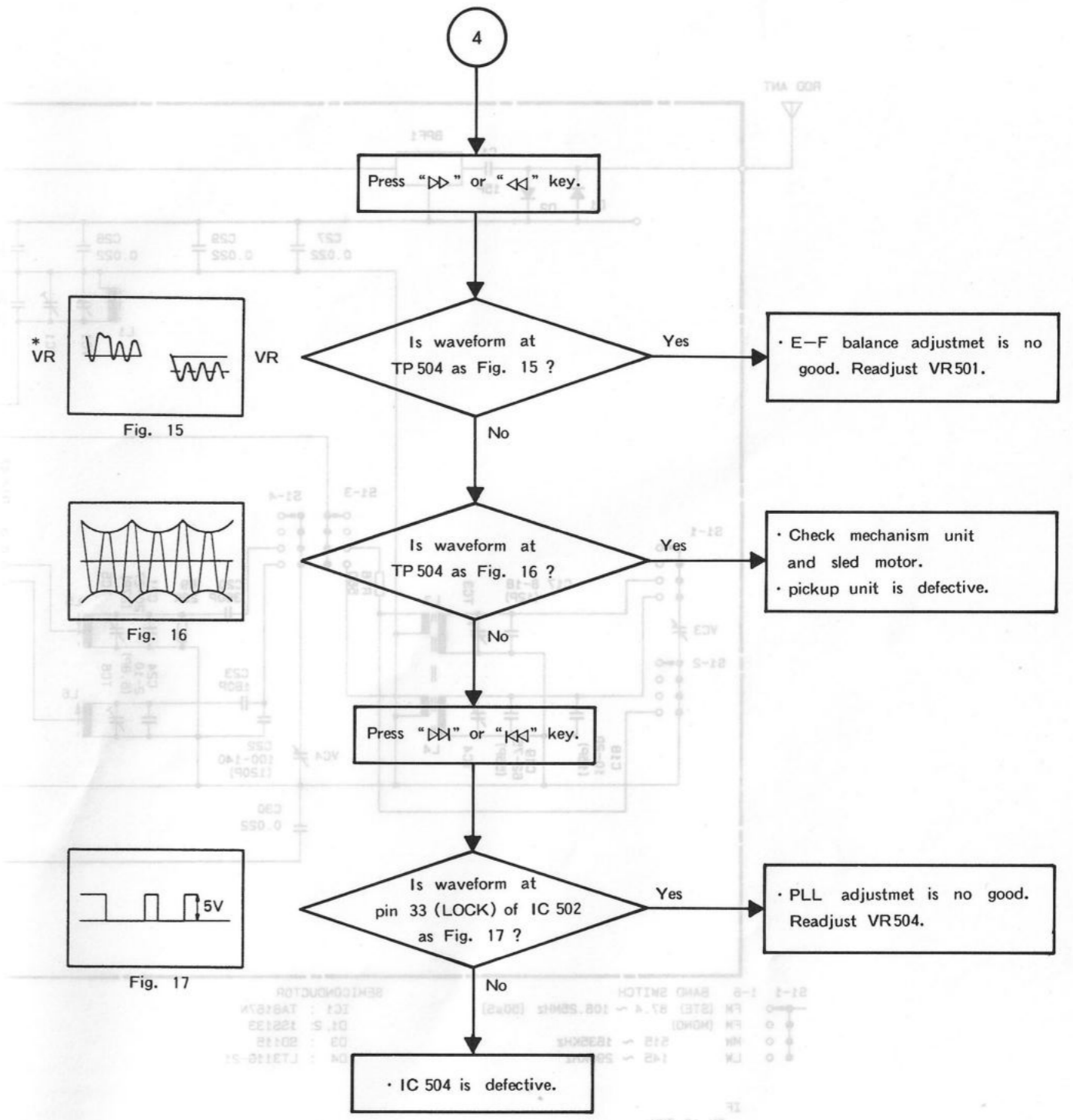
Fig. 14



[Repair Item 3] No sound signal.



[Repair Item 4] Selected track number cannot be searched.

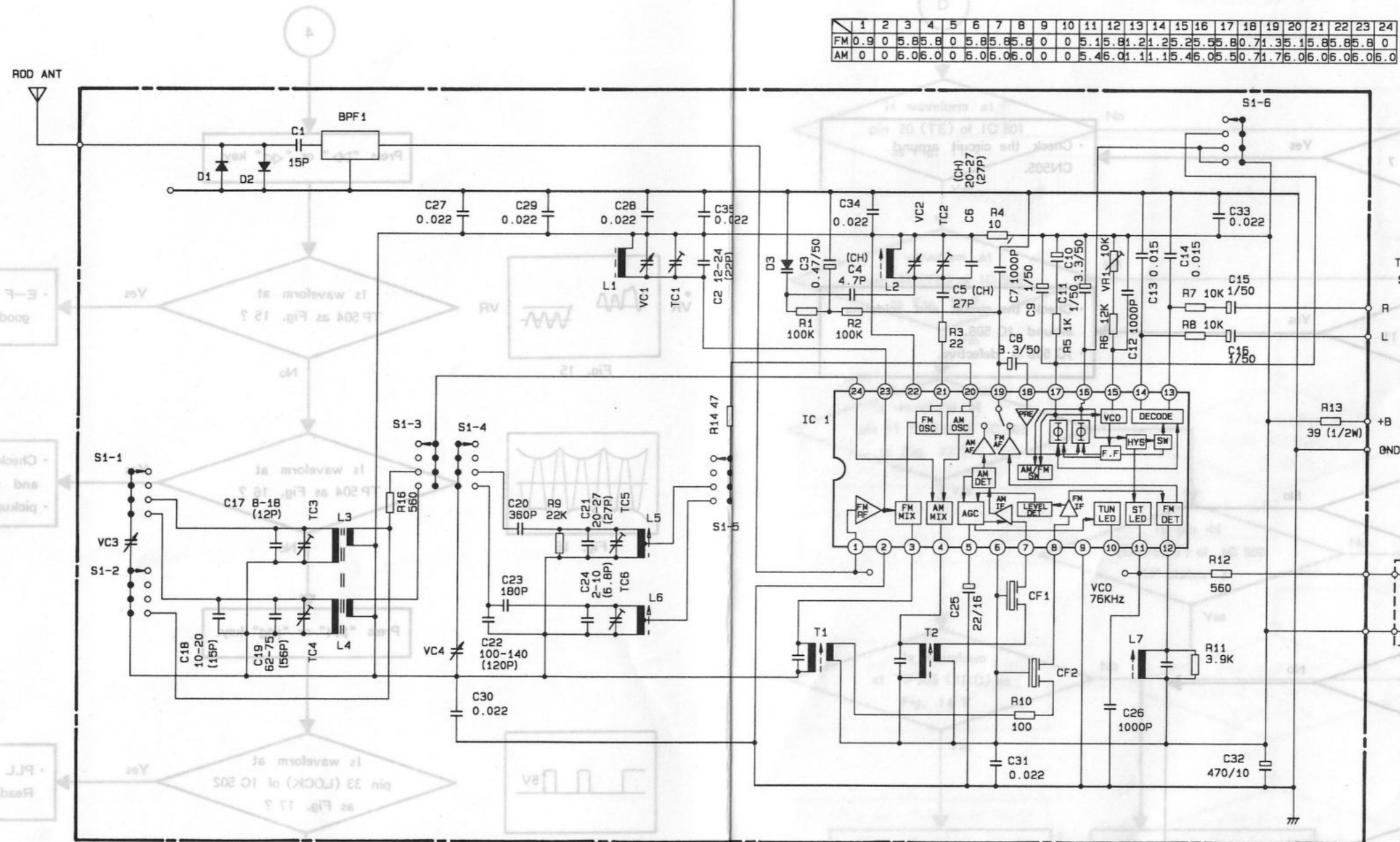


\*Note:  
VR is reference voltage of servo circuit. (Pin 1 of IC 502, and pin 14 of IC 501)

**SCHEMATIC DIAGRAM**

TUNER [for E, E (BS) ]

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FM	0.9	0	5.8	5.8	0	5.8	5.8	5.8	0	0	5.1	5.8	1.2	1.2	5.5	5.5	8.0	7.1	3.5	1.5	8.5	8.5	8	0
AM	0	0	6.0	6.0	0	6.0	6.0	6.0	0	0	5.4	6.0	1.1	1.1	5.4	6.0	5.0	7.1	7.6	0.6	0.6	0.6	0.6	0



- S1-1 1-6 BAND SWITCH  
 ○ FM (STE) 87.4 ~ 108.25MHz [50μS]  
 ○ FM (MONO)  
 ○ MW 515 ~ 1635KHz  
 ○ LW 145 ~ 290KHz
- IF  
 FM 10.7MHz  
 AM 455 KHz (465KHz for UK)
- SEMICONDUCTOR  
 IC1 : TAB167N  
 D1, 2: 1SS133  
 D3 : SD115  
 D4 : LT3116-21

VR is reference voltage of servo circuit. (Pin 1 of IC 505, and pin 14 of IC 501)

--- OMIT NUMBER ---  
 R15

• E-F balance adjuster is no good. Readjust VR501.

• Check mechanism unit and sled motor.

• PLL adjuster is no good. Readjust VR504.

• IC 504 is defective.

• Check the circuit and soldering around IC 503.

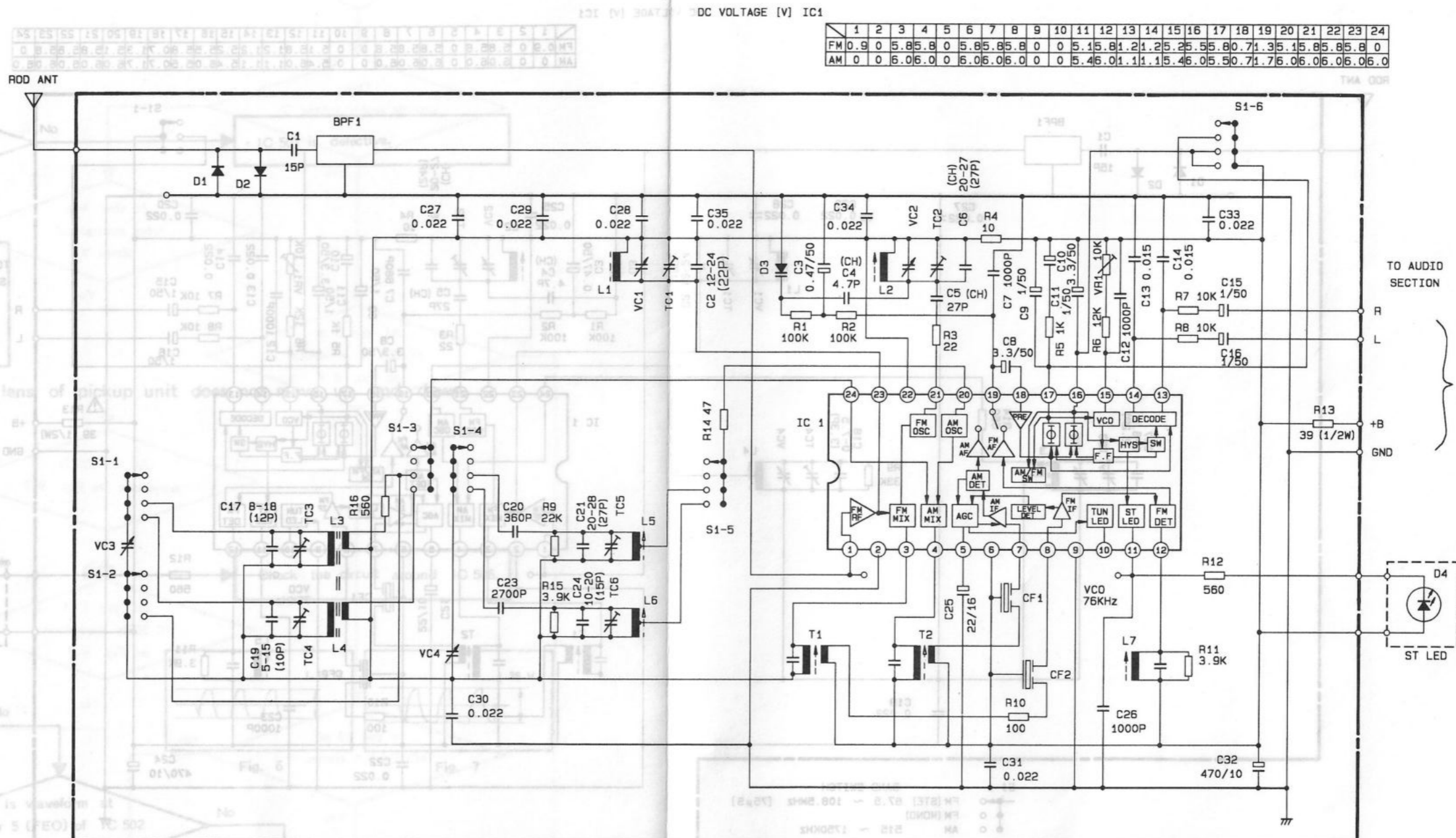
• Check the circuit and soldering around IC 507.

• Check the circuit and soldering around IC 507.

• Check the circuit and soldering around IC 507.

**SCHEMATIC DIAGRAM**

**TUNER [for W, W (UM), W (AU)]**

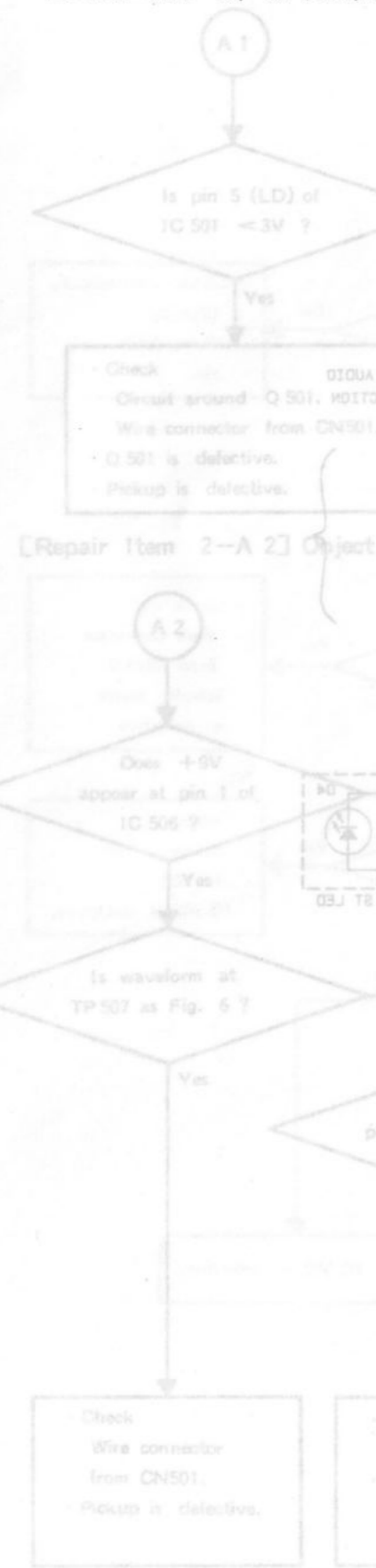


DC VOLTAGE [V] IC1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FM	0.9	0	5.8	5.8	0	5.8	5.8	5.8	0	0	5.1	5.8	1.2	1.2	5.2	5.5	5.8	0.7	1.3	5.1	5.8	5.8	5.8	0
AM	0	0	6.0	6.0	0	6.0	6.0	6.0	0	0	5.4	6.0	1.1	1.1	5.4	6.0	5.0	7.1	7.6	6.0	6.0	6.0	6.0	0

- S1-1 1-6 BAND SWITCH  
 ○ FM (STE) 87.4 ~ 108.25MHz [50μs]  
 ○ FM (MONO)  
 ○ MW 515 ~ 1635KHz  
 ○ SW 3.8 ~ 12.3MHz
- IF  
 FM 10.7MHz  
 AM 455 KHz
- SEMICONDUCTOR  
 IC1 : TAB167N  
 D1, 2 : 1SS133  
 D3 : SD115  
 D4 : LT3116-21

--- OMIT NUMBER ---  
 C : 18 22  
 C35  
 R16



- Check Wire connector from CN501. Pickup is defective.
- Check the circuit around IC 506. IC 506 is defective.
- Check the circuit around IC 505 soldering etc. IC 505 or IC 504 is defective.
- Check the circuit around IC 501, IC 502. IC 503 is defective.

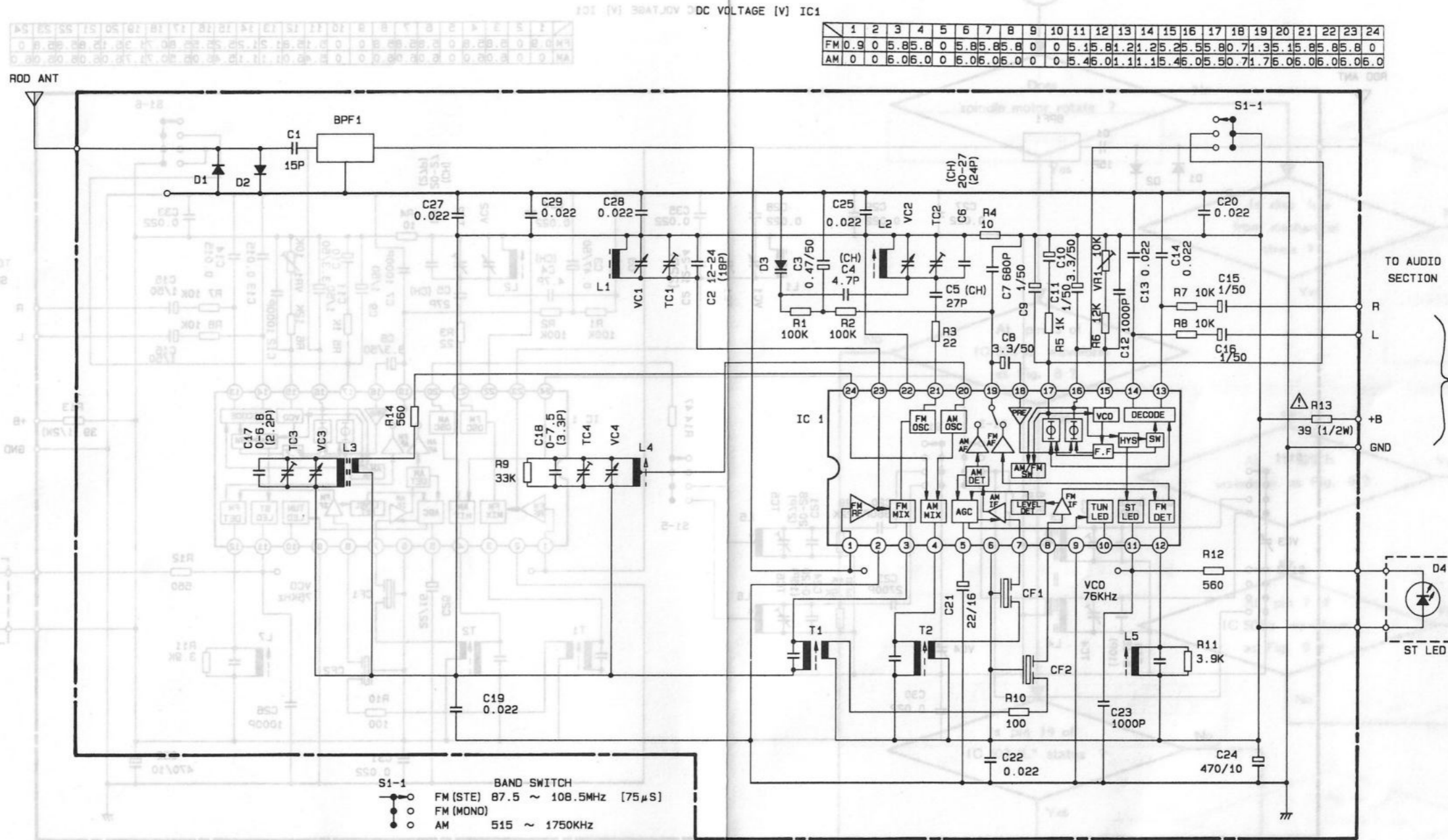


**SCHEMATIC DIAGRAM**

TUNER [for H, HC]

[Repair Item 2-8]

TUNER [for W (UM), W (AU)]



15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FM	0.9	0.5	8.5	8.0	0.5	8.5	8.5	8.0	0.0	5.1	5.8	1.2	1.2	5.2	5.5	5.8	0.7	1.3	5.1	5.8	5.8	5.8	0.0	0.0
AM	0.0	6.0	6.0	0.0	6.0	6.0	6.0	0.0	0.0	5.4	6.0	1.1	1.1	5.4	6.0	5.5	0.7	1.7	6.0	6.0	6.0	6.0	0.0	0.0

Make leakage current or resistance measurements to determine that exposed metal parts are acceptably insulated from the supply circuit before returning the appliance to the customer.

Leakage current from microphone jack and battery terminals should not exceed 0.5 mA as measured through a 1.5 Kohm resistor paralleled by a 0.15 mfd capacitor to the earth ground.

- SEMICONDUCTOR**  
 IC1 : TAB167N  
 D1, 2 : 1SS133  
 D3 : SD115  
 D4 : LT3116-21

- IF**  
 FM 10.7MHz  
 AM 455KHz

C26 - OMIT NUMBER

Check mechanically Clamper Turn-table unit etc.

Check Wire connector from CH502. Spindle motor is defective.

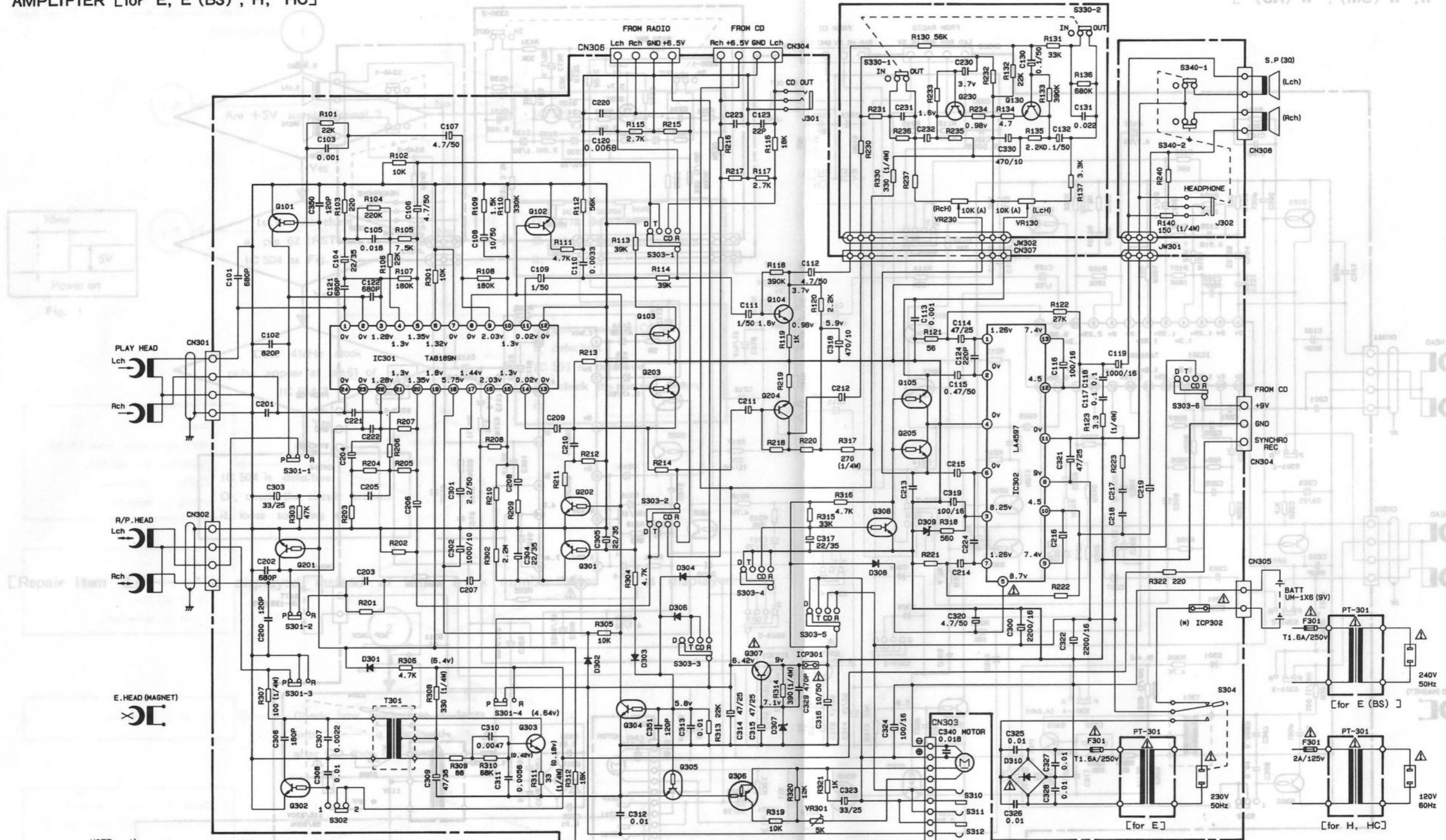
Check Soldering for IC 502. IC 502 is defective.

SCHEMATIC DIAGRAM

AMPLIFIER [for E, E (BS), H, HC]

SCHEMATIC DIAGRAM

AMPLIFIER [for W, (MU), W (U)]



NOTE : 1)

- S301-1 ~ S301-4 : REC / PLAY SW
- S302 : BEAT CUT SW
- S303-1 ~ S303-6 : FUNCTION SW
- S304 : AC / BATT SW
- S310 : DECK 1 MAIN SW
- S311 : DECK 2 MAIN SW
- S312 : DECK 1 PLAY SW

- S330-1 ~ S330-2 : BBS SW
- S340-1 ~ S340-2 : SP / H. PHONE SW
- Q101, 201, 102, 202 : BA1A4Z or RN1211
- 103, 203, 105, 205, 301, 302, 304, 305, 308
- Q306 : BN1L4M or RN2204
- Q104, 204, 130, 230 : 2SC1815GR
- 303
- Q307 : 2SD467

- D301, 303, 304, 306 : 1SS133
- D302 : MPG06B
- D307 : RD7.5ES
- D309 : RD8.2ES
- D308 : RD100A
- D310 : M02G
- ICP301 : ICP-N5

2). This circuit diagram shows the basic circuit. It is subject to change for the purpose of improvement.

3). Each DC voltage Shows the value in volts at no input signal, and value in ( ) is DC voltage at recording. (Tape position)

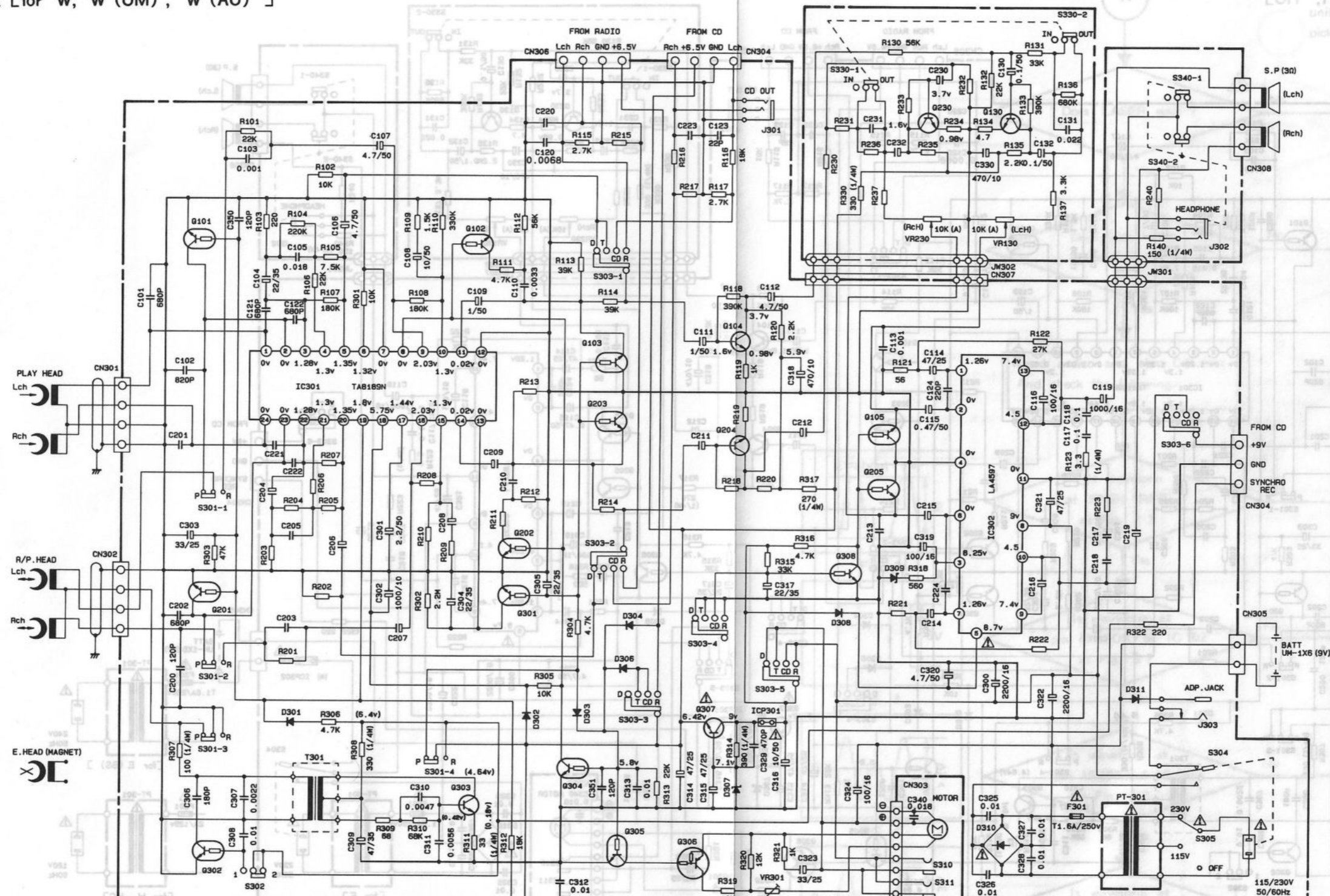
4). Parts marked with  $\Delta$  are of importance in respect to the safety. use the specified type without fail.

(M) Using only ICP302 for UL/CSA safety.  
ICP302 : ICP-N75



**SCHEMATIC DIAGRAM**

**AMPLIFIER [for W, W (UM), W (AU) ]**



NOTE : 1)

- |                                 |  |
|---------------------------------|--|
| S301-1 ~ S301-4 : REC / PLAY SW | S330-1 ~ S330-2 : BBS SW               |
| S302 : BEAT CUT SW              | S340-1 ~ S340-2 : SP / H.PHONE SW      |
| S303-1 ~ S303-6 : FUNCTION SW   | Q101, 201, 102, 202 : BA1A4Z or RN1211 |
| S304 : AC / BATT SW             | 103, 203, 105, 205, 301, 302,          |
| S310 : DECK 1 MAIN SW           | 304, 305, 308                          |
| S311 : DECK 2 MAIN SW           | Q306 : BN14M or RN2204                 |
| S312 : DECK 1 PLAY SW           | Q104, 204, 130, 230 : 2SC1815GR        |
|                                 | 303                                    |
|                                 | Q307 : 2SD467                          |

- |                              |   |
|------------------------------|---|
| D301, 303, 304, 306 : 1SS133 | 2) This circuit diagram shows the basic circuit.                          |
| D302, 311 : MP606B           | It is subject to change for the purpose of improvement.                   |
| D307 : RD7.5ES               |   |
| D309 : RD8.2ES               | 3) Each DC voltage Shows the value in volts at no input signal,           |
| D308 : RD100A                | and value in ( ) is DC voltage at recording. (Tape position)              |
| D310 : W02G                  |   |
| ICP301 : ICP-N5              | 4) Parts marked with $\Delta$ are of importance in respect to the safety. |
|                              | use the specified type without fail.                                      |

SCHEMATIC DIAGRAM

CD

Tuning Servo Adjustment (Figures 27 and 28)

IC501	IC502	IC503	IC504
1	2.5	2.5	2.5
2	2.5	2.5	2.5
3	2.5	2.5	2.5
4	2.5	2.5	2.5
5	2.5	2.5	2.5
6	2.5	2.5	2.5
7	2.5	2.5	2.5
8	2.5	2.5	2.5
9	2.5	2.5	2.5
10	2.5	2.5	2.5
11	2.5	2.5	2.5
12	2.5	2.5	2.5
13	2.5	2.5	2.5
14	2.5	2.5	2.5
15	2.5	2.5	2.5
16	2.5	2.5	2.5
17	2.5	2.5	2.5
18	2.5	2.5	2.5
19	2.5	2.5	2.5
20	2.5	2.5	2.5
21	2.5	2.5	2.5
22	2.5	2.5	2.5
23	2.5	2.5	2.5
24	2.5	2.5	2.5
25	2.5	2.5	2.5
26	2.5	2.5	2.5
27	2.5	2.5	2.5
28	2.5	2.5	2.5
29	2.5	2.5	2.5
30	2.5	2.5	2.5
31	2.5	2.5	2.5
32	2.5	2.5	2.5
33	2.5	2.5	2.5
34	2.5	2.5	2.5
35	2.5	2.5	2.5
36	2.5	2.5	2.5
37	2.5	2.5	2.5
38	2.5	2.5	2.5
39	2.5	2.5	2.5
40	2.5	2.5	2.5
41	2.5	2.5	2.5
42	2.5	2.5	2.5
43	2.5	2.5	2.5
44	2.5	2.5	2.5
45	2.5	2.5	2.5
46	2.5	2.5	2.5
47	2.5	2.5	2.5
48	2.5	2.5	2.5
49	2.5	2.5	2.5
50	2.5	2.5	2.5
51	2.5	2.5	2.5
52	2.5	2.5	2.5
53	2.5	2.5	2.5
54	2.5	2.5	2.5
55	2.5	2.5	2.5
56	2.5	2.5	2.5
57	2.5	2.5	2.5
58	2.5	2.5	2.5
59	2.5	2.5	2.5
60	2.5	2.5	2.5
61	2.5	2.5	2.5
62	2.5	2.5	2.5
63	2.5	2.5	2.5
64	2.5	2.5	2.5
65	2.5	2.5	2.5
66	2.5	2.5	2.5
67	2.5	2.5	2.5
68	2.5	2.5	2.5
69	2.5	2.5	2.5
70	2.5	2.5	2.5
71	2.5	2.5	2.5
72	2.5	2.5	2.5
73	2.5	2.5	2.5
74	2.5	2.5	2.5
75	2.5	2.5	2.5
76	2.5	2.5	2.5
77	2.5	2.5	2.5
78	2.5	2.5	2.5
79	2.5	2.5	2.5
80	2.5	2.5	2.5

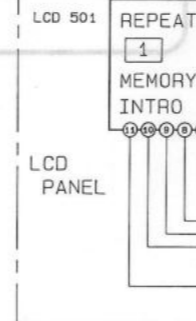
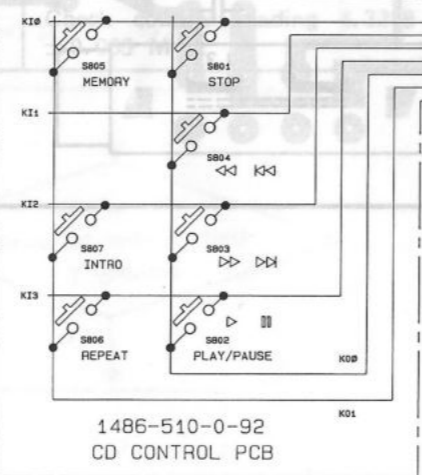
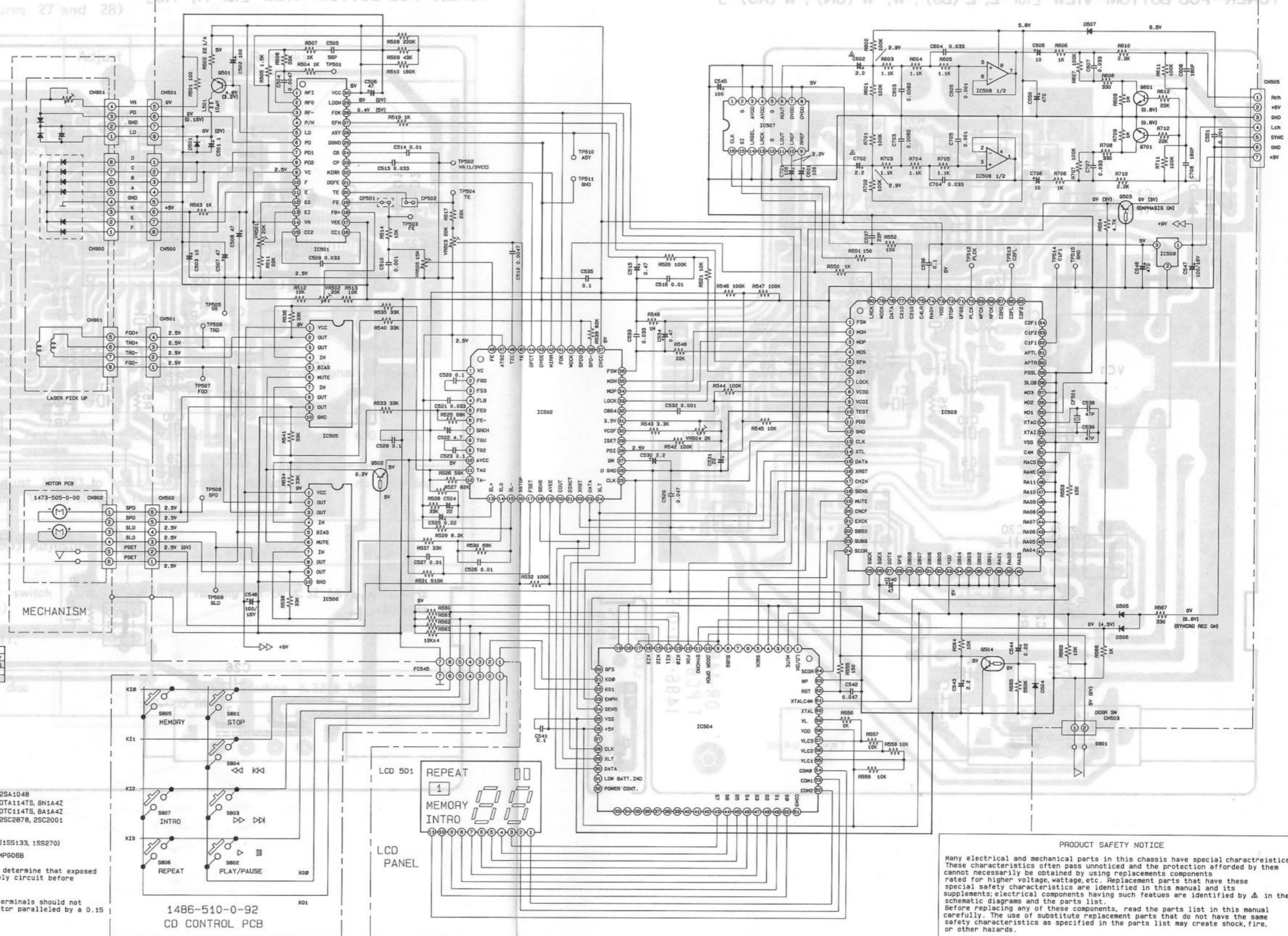
IC505	IC506	IC507	IC508	IC509
1	2.5	2.5	2.5	2.5
2	2.5	2.5	2.5	2.5
3	2.5	2.5	2.5	2.5
4	2.5	2.5	2.5	2.5
5	2.5	2.5	2.5	2.5
6	2.5	2.5	2.5	2.5
7	2.5	2.5	2.5	2.5
8	2.5	2.5	2.5	2.5
9	2.5	2.5	2.5	2.5
10	2.5	2.5	2.5	2.5
11	2.5	2.5	2.5	2.5
12	2.5	2.5	2.5	2.5
13	2.5	2.5	2.5	2.5
14	2.5	2.5	2.5	2.5
15	2.5	2.5	2.5	2.5
16	2.5	2.5	2.5	2.5

- IC501 — CXA1081S
- IC502 — CXA1082B9
- IC503 — CXD11679
- IC504 — CXP5084H-5199
- IC505, 506 — BA6294
- IC507 —  $\mu$ PD6376
- IC508 — (BA4558,  $\mu$ PC4558C)
- IC509 — NJM2930F05
- Q501 — 2SA1048
- Q502, 503 — DTA1147S, BN1A4Z
- Q504 — DTC1147S, BA1A4Z
- Q601, 701 — 2SC2878, 2SC2001
- D501, 504 — (1SS133, 1SS270)
- 505, 506 — (1SS133, 1SS270)
- D507 — MP606B

Make leakage current or resistance measurements to determine that exposed metal parts are acceptably insulated from the supply circuit before returning the appliance to the customer.

Leakage current from microphone jack and battery terminals should not exceed 0.5 mA as measured through a 1.5 Kohm resistor paralleled by a 0.15 mfd capacitor to the earth ground.

DC VOLTAGE is at STOP. ( ) is at PLAY.



**PRODUCT SAFETY NOTICE**

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by  $\Delta$  in the schematic diagrams and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.



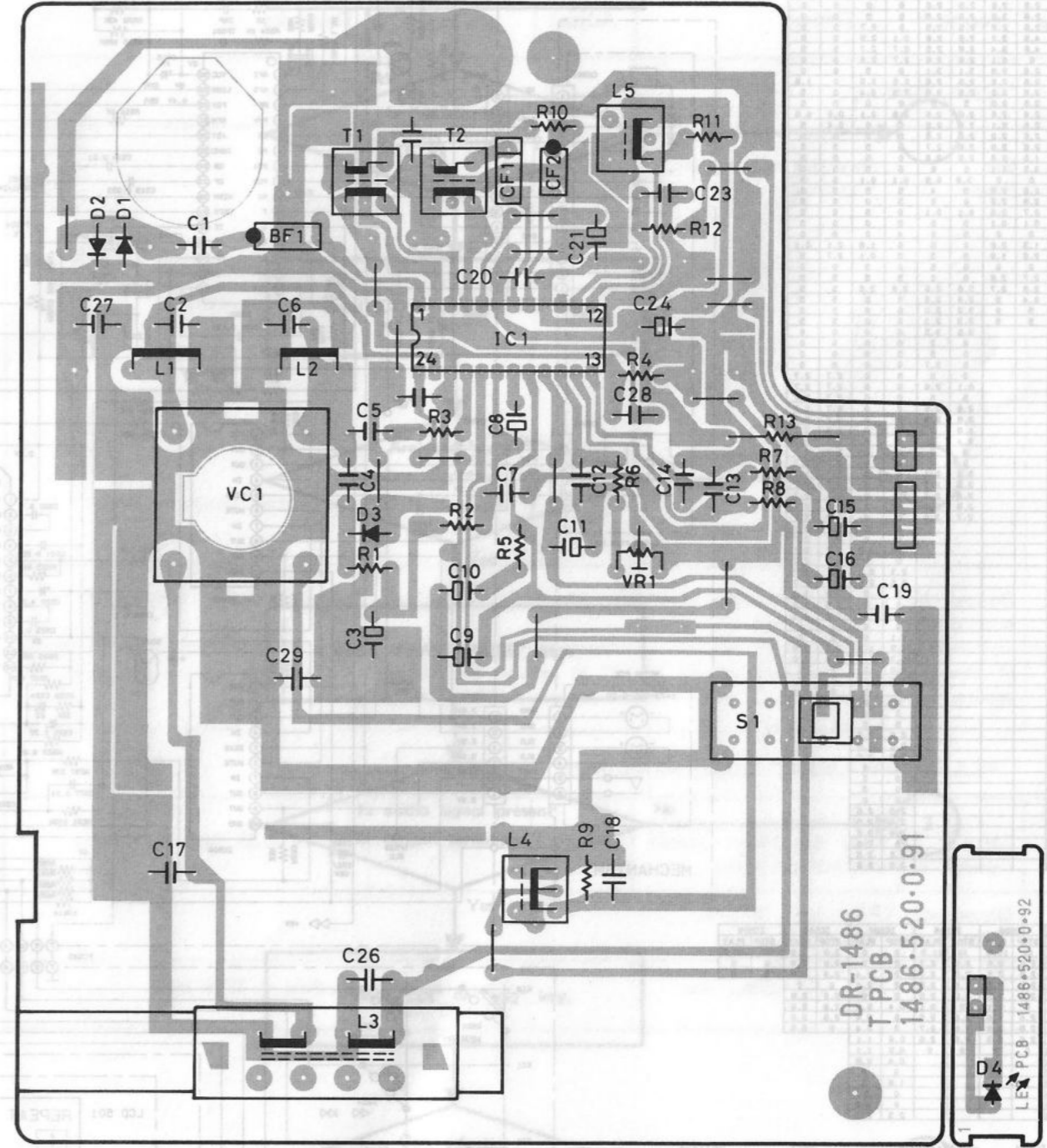
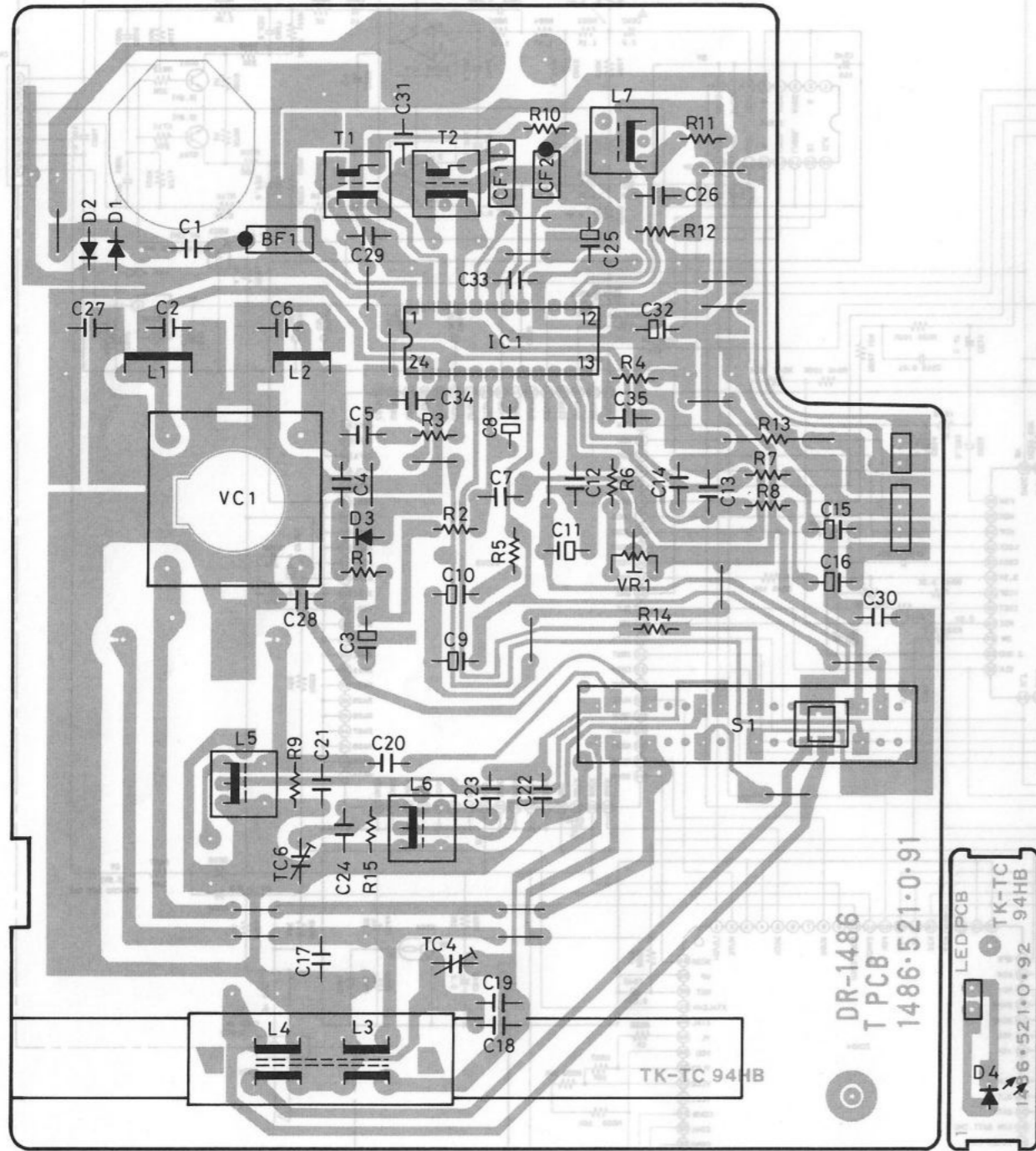
PCB VIEWS

TROUBLESHOOTING CHARTS

SCHEMATIC DIAGRAM

TUNER PCB BOTTOM VIEW [for E, E (BS) , W, W (UN) , W (AU) ]

TUNER PCB BOTTOM VIEW [for H, HC]



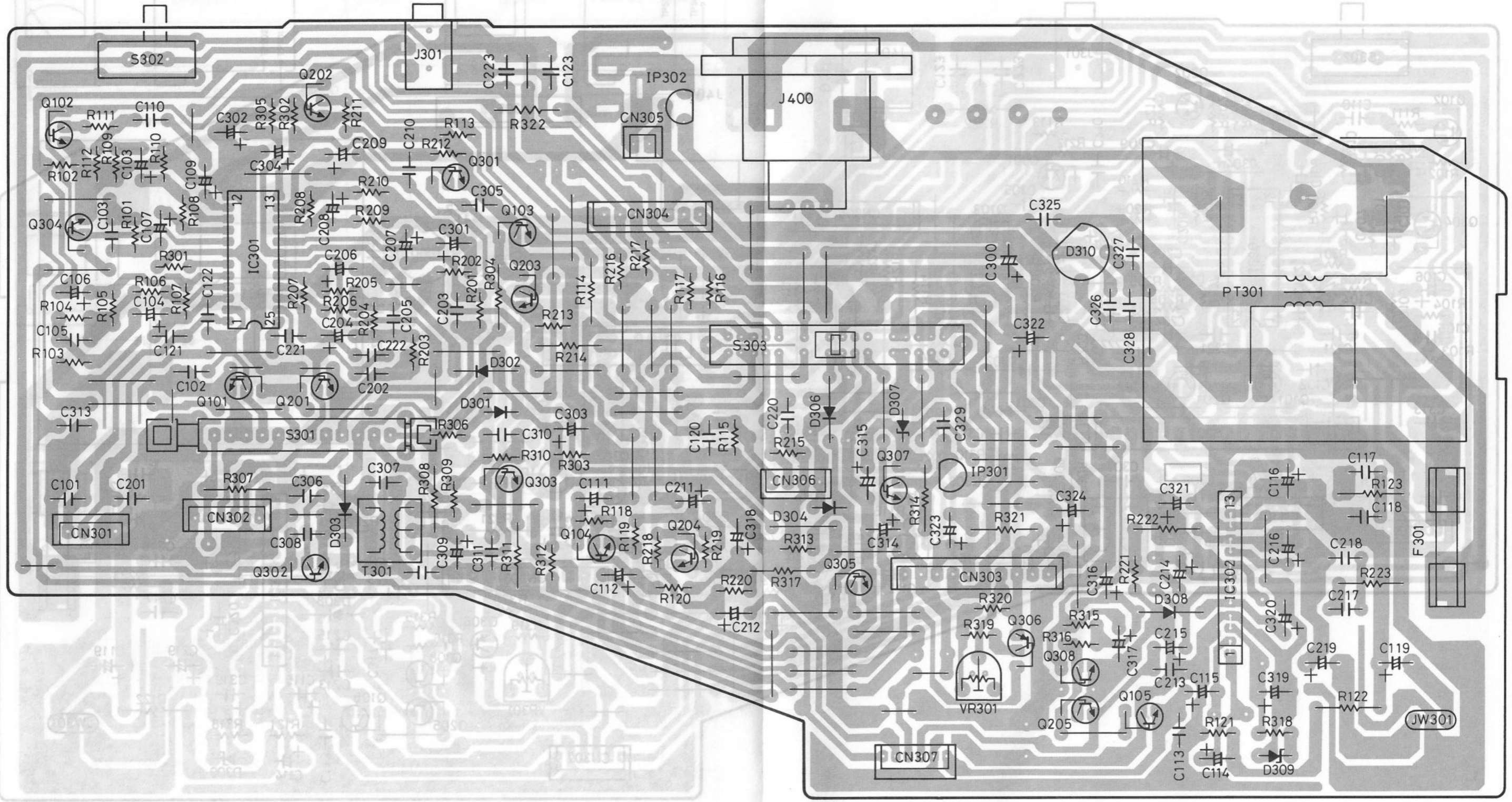
PRODUCT SAFETY NOTICE  
 Read this notice carefully before using this product. It contains important information regarding safety and proper use of the product. Failure to follow these instructions may result in personal injury or property damage. This notice is provided for your reference and should be kept with the product. For more information, please contact the manufacturer.

READ THIS NOTICE CAREFULLY BEFORE USING THIS PRODUCT. IT CONTAINS IMPORTANT INFORMATION REGARDING SAFETY AND PROPER USE OF THE PRODUCT. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE. THIS NOTICE IS PROVIDED FOR YOUR REFERENCE AND SHOULD BE KEPT WITH THE PRODUCT. FOR MORE INFORMATION, PLEASE CONTACT THE MANUFACTURER.



AMPLIFIER PCB BOTTOM VIEW [for E, E (BS) , H, HC]

AMPLIFIER PCB BOTTOM VIEW [for W (UM) , W (AU) ]





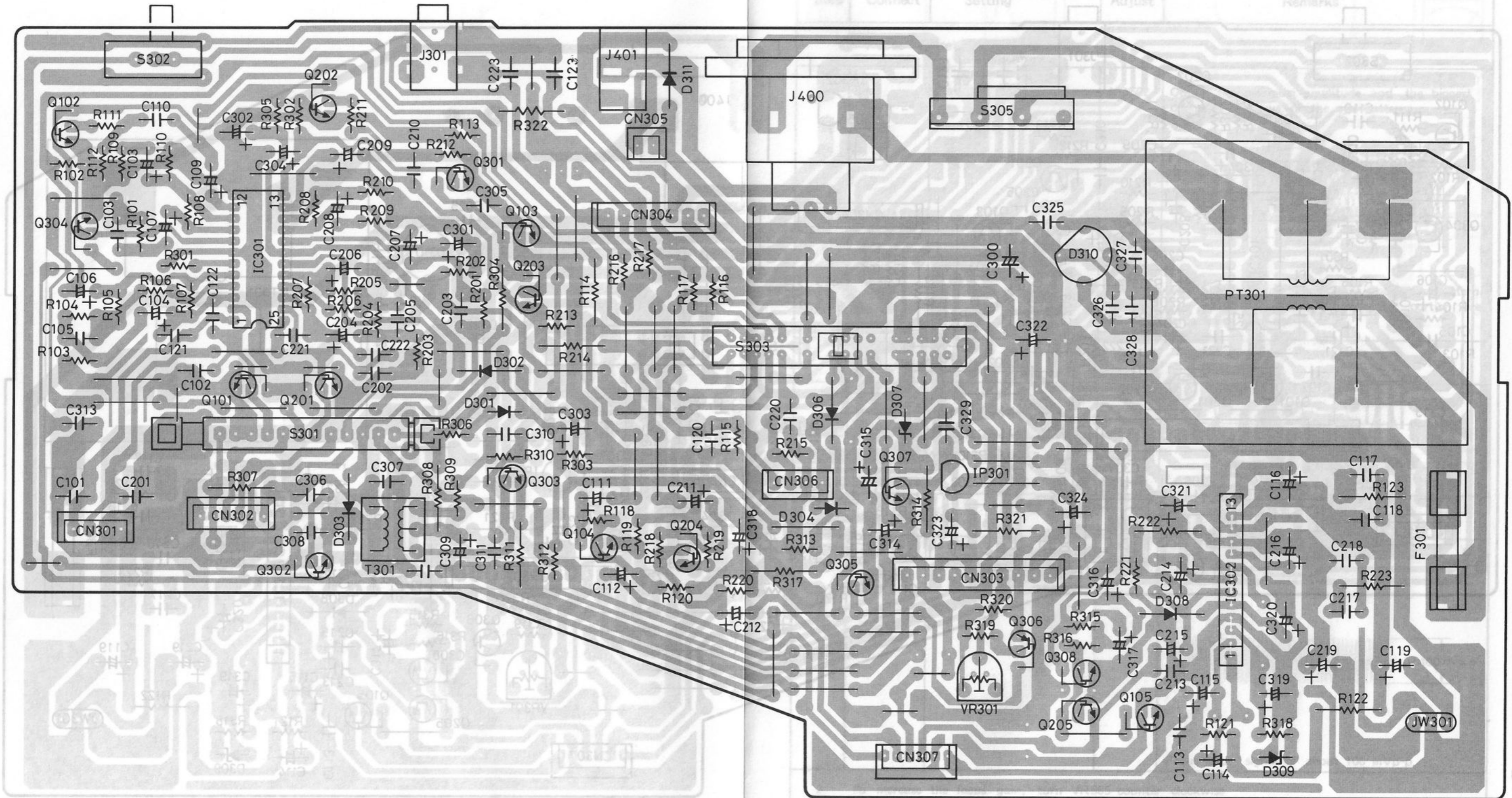
AMPLIFIER PCB BOTTOM VIEW [for W, W (UM), W (AU) ]

CIRCUIT ADJUSTMENT

AMPLIFIER PCB BOTTOM VIEW [for E (BS), H, HC]

Fuse Servo Adjustmet (Figures 24, 25 and 26)

Step	Connect	Setting	Adjust	Remarks



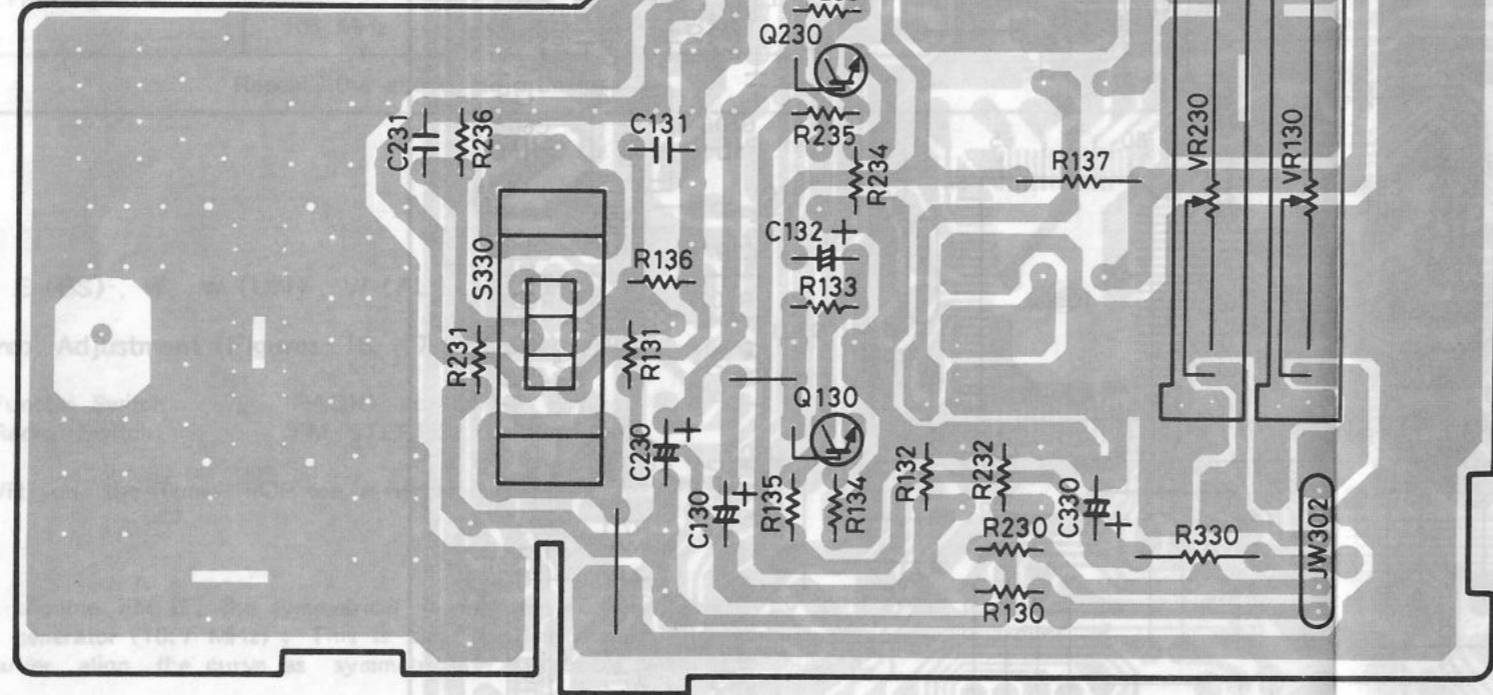
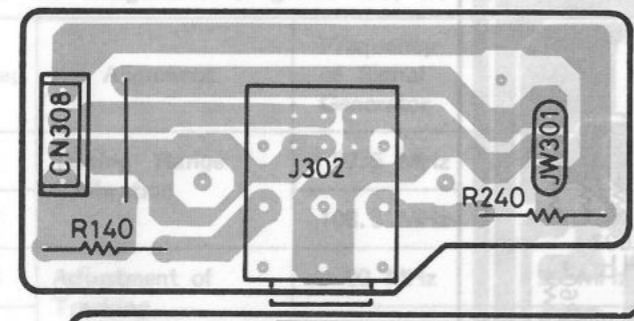


VOLUME PCB BOTTOM VIEW

CD PCB BOTTOM VIEW

FM RF Alignment (Figures 16, 20)

Step	1	2	3	4	5
Adjustment of					

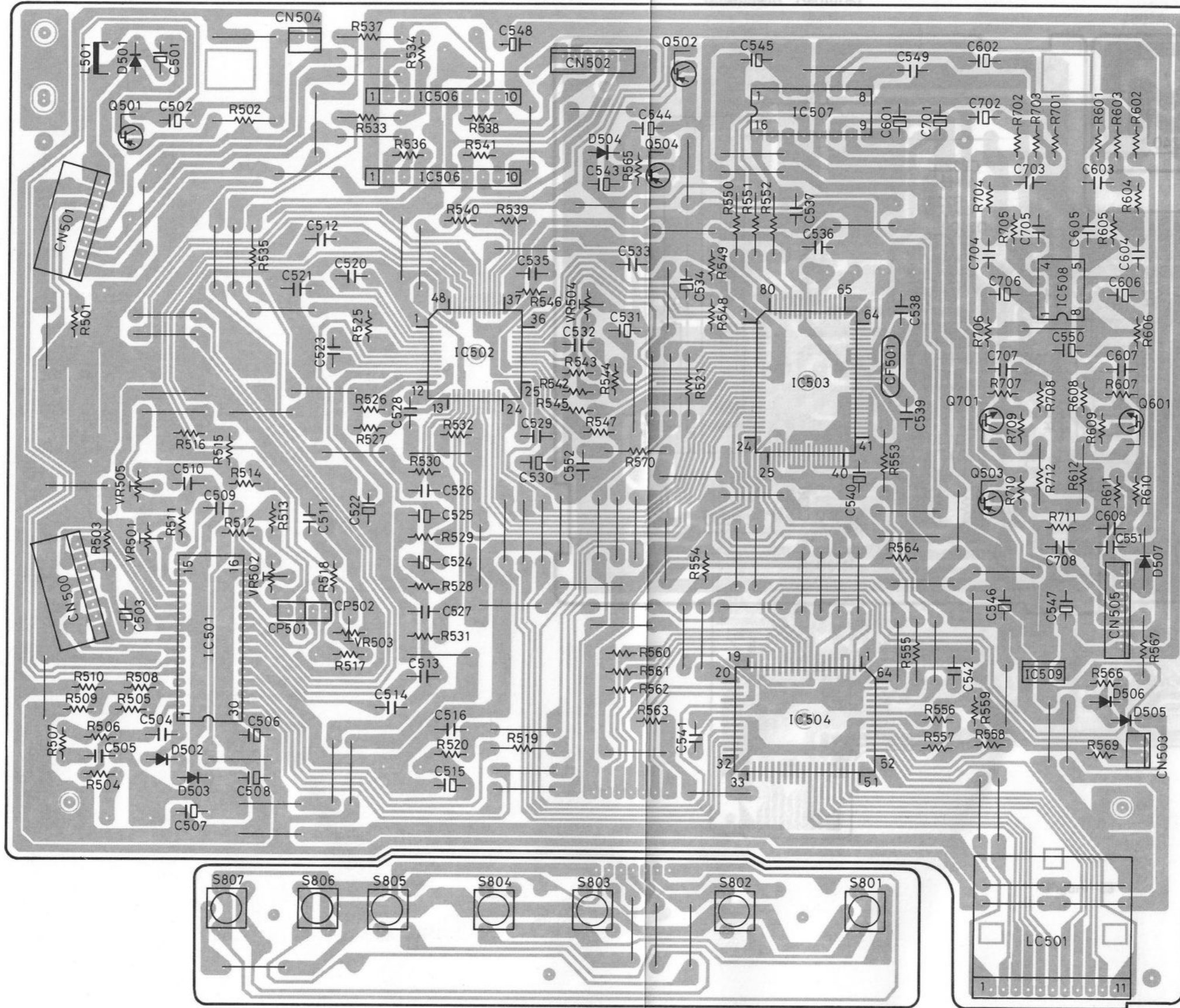


- Remarks:
- 1) When sweep the range...
  - 2) When aligning the range and adjusting FM-MW-LW [for E, E (BS) ], FM-MW [for H, HO] .
  - 3) Use a screwdriver with a plastic grip for all...

CD PCB BOTTOM VIEW

TEST POINT LOCATIONS (CD)

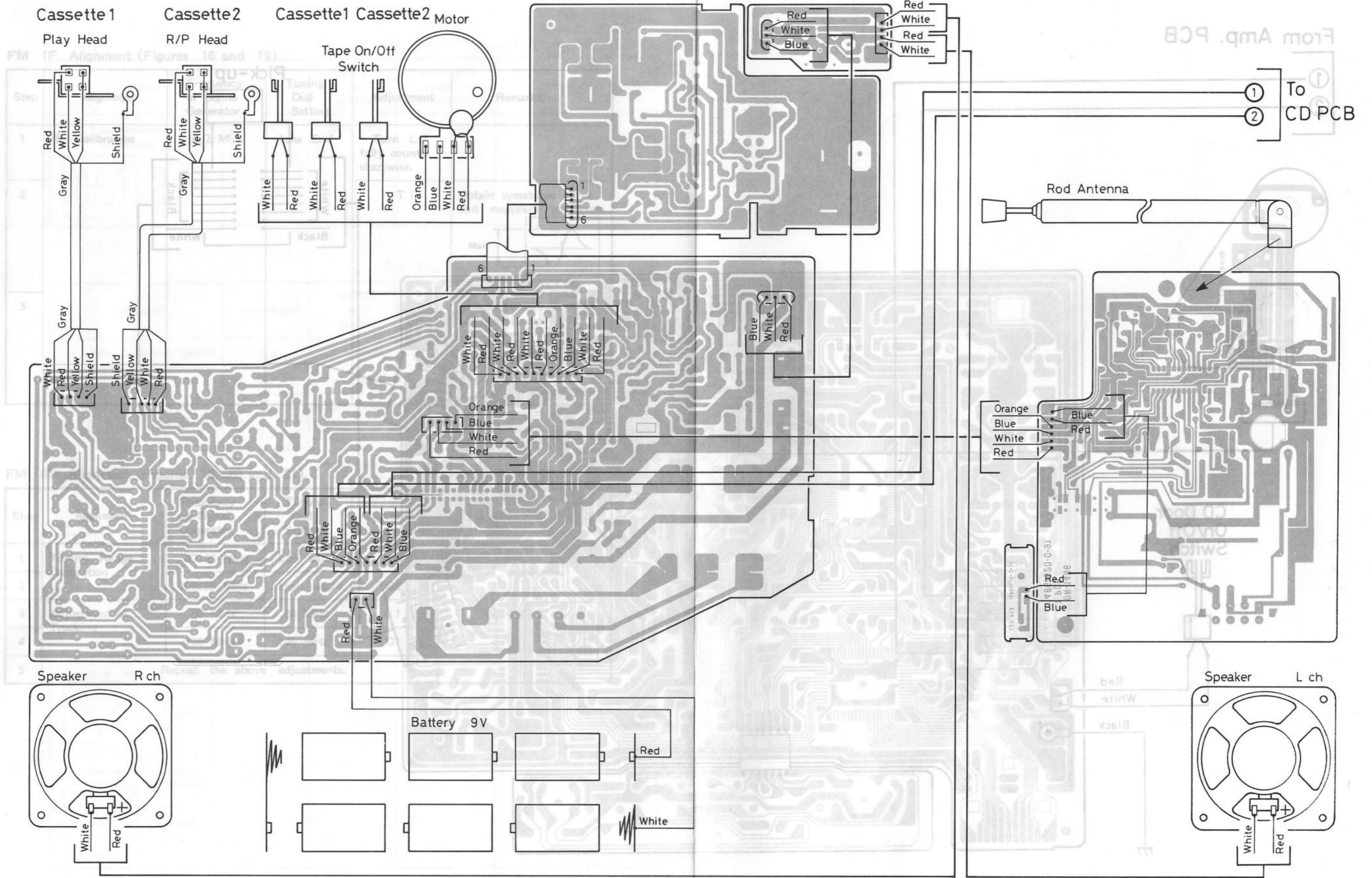
VOLUME PCB BOTTOM VIEW



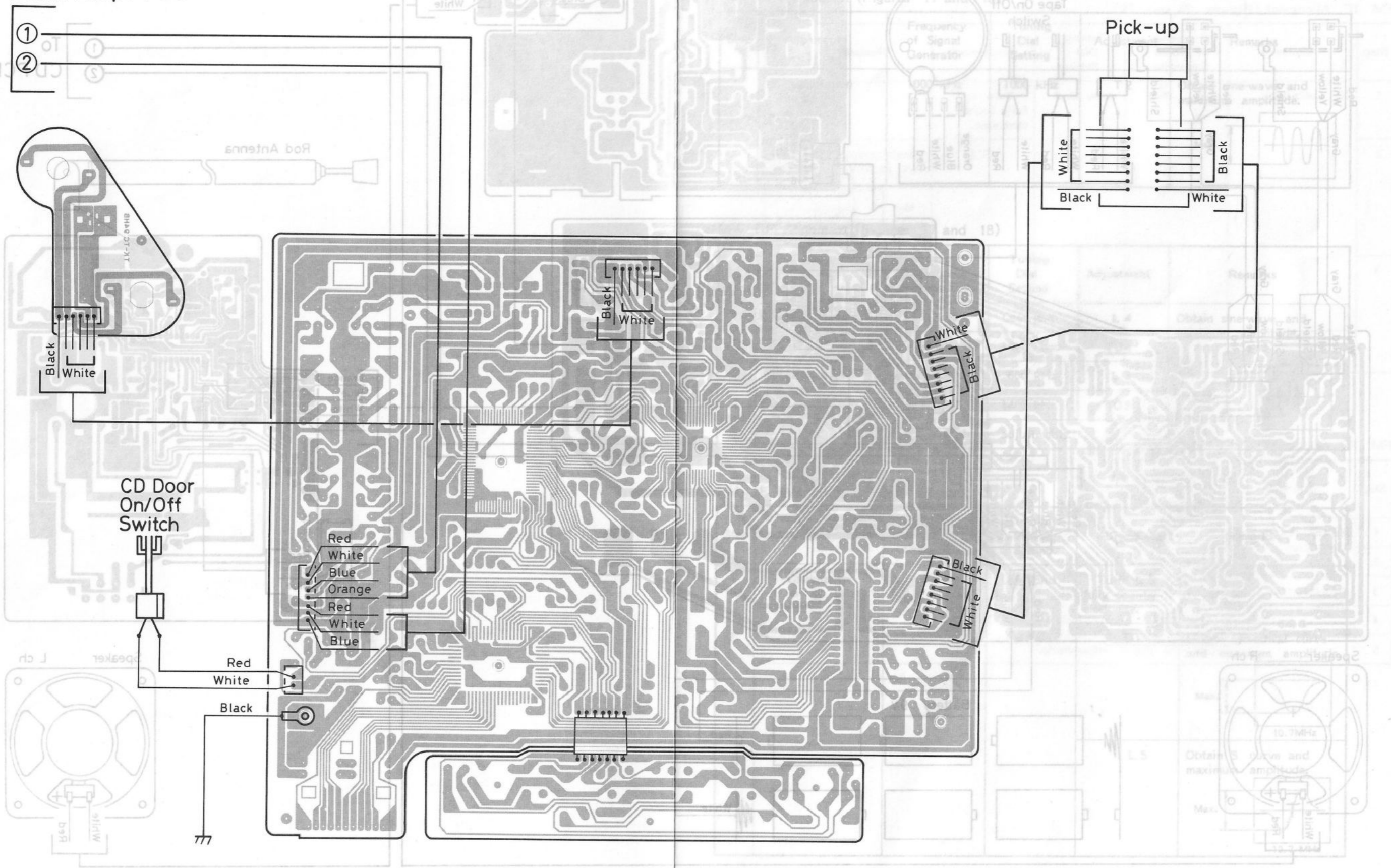


WIRING DIAGRAM 1 / 2

WIRING DIAGRAM 2 / 2

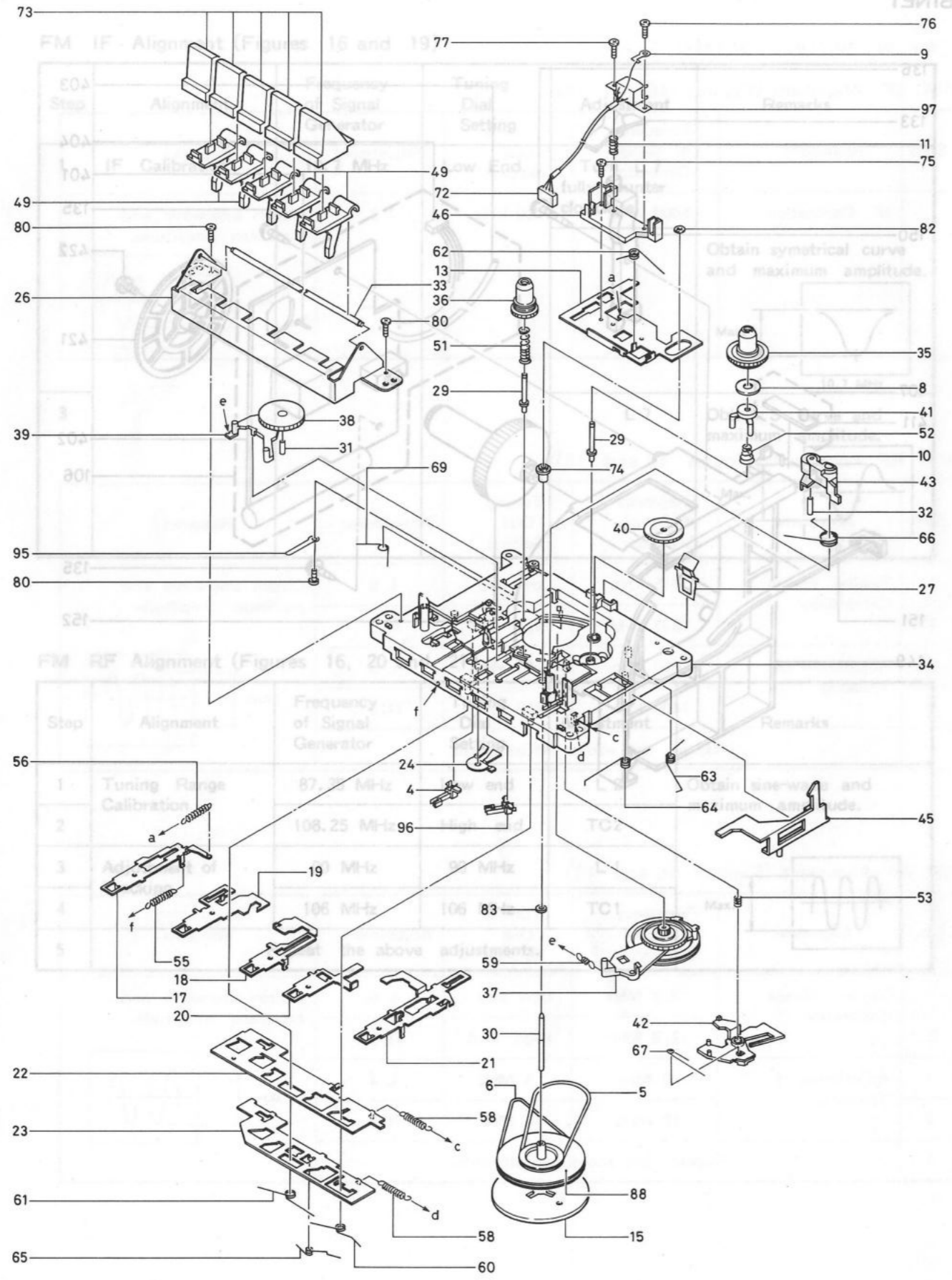


From Amp. PCB

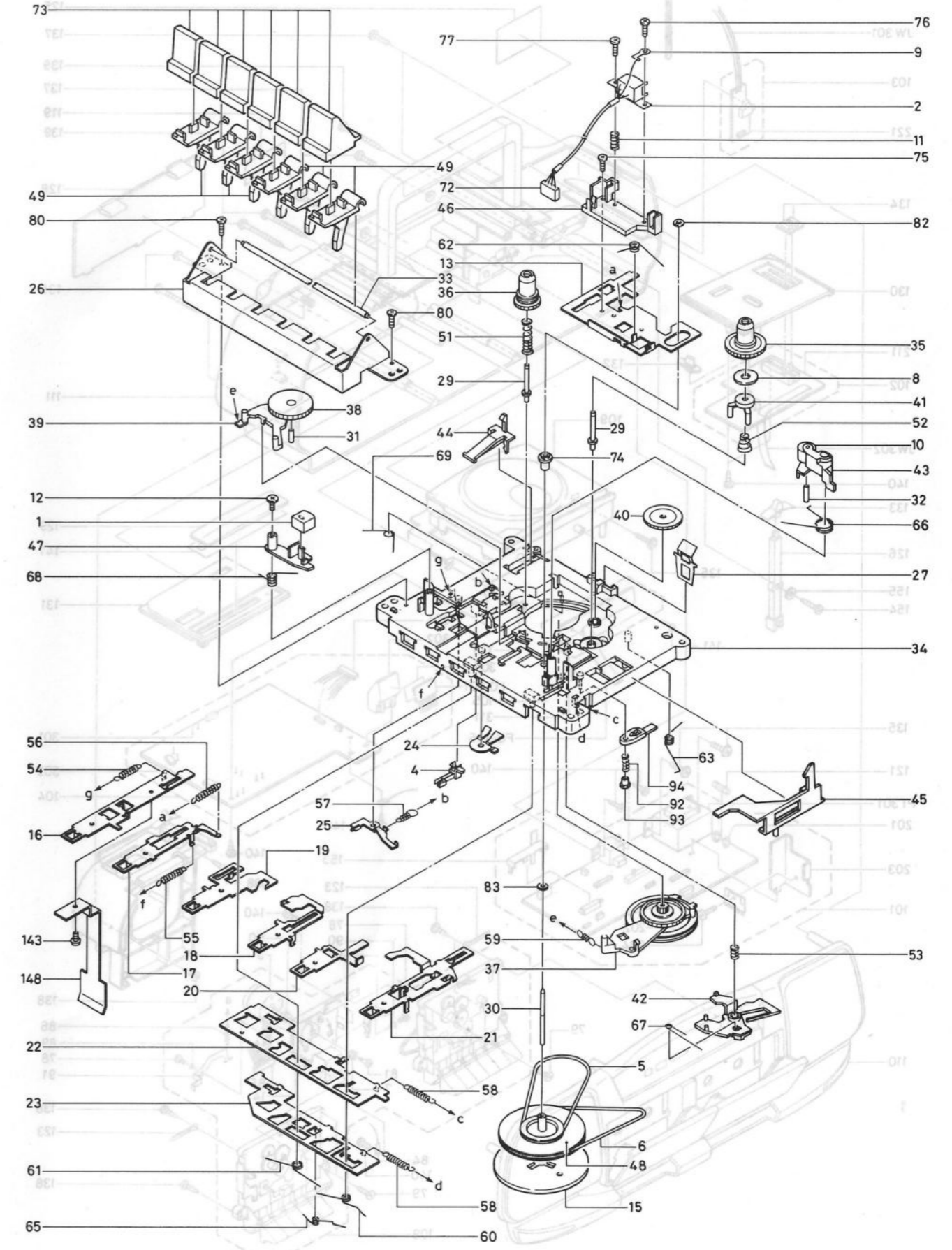




EXPLODED VIEW MECHANISM (Play)



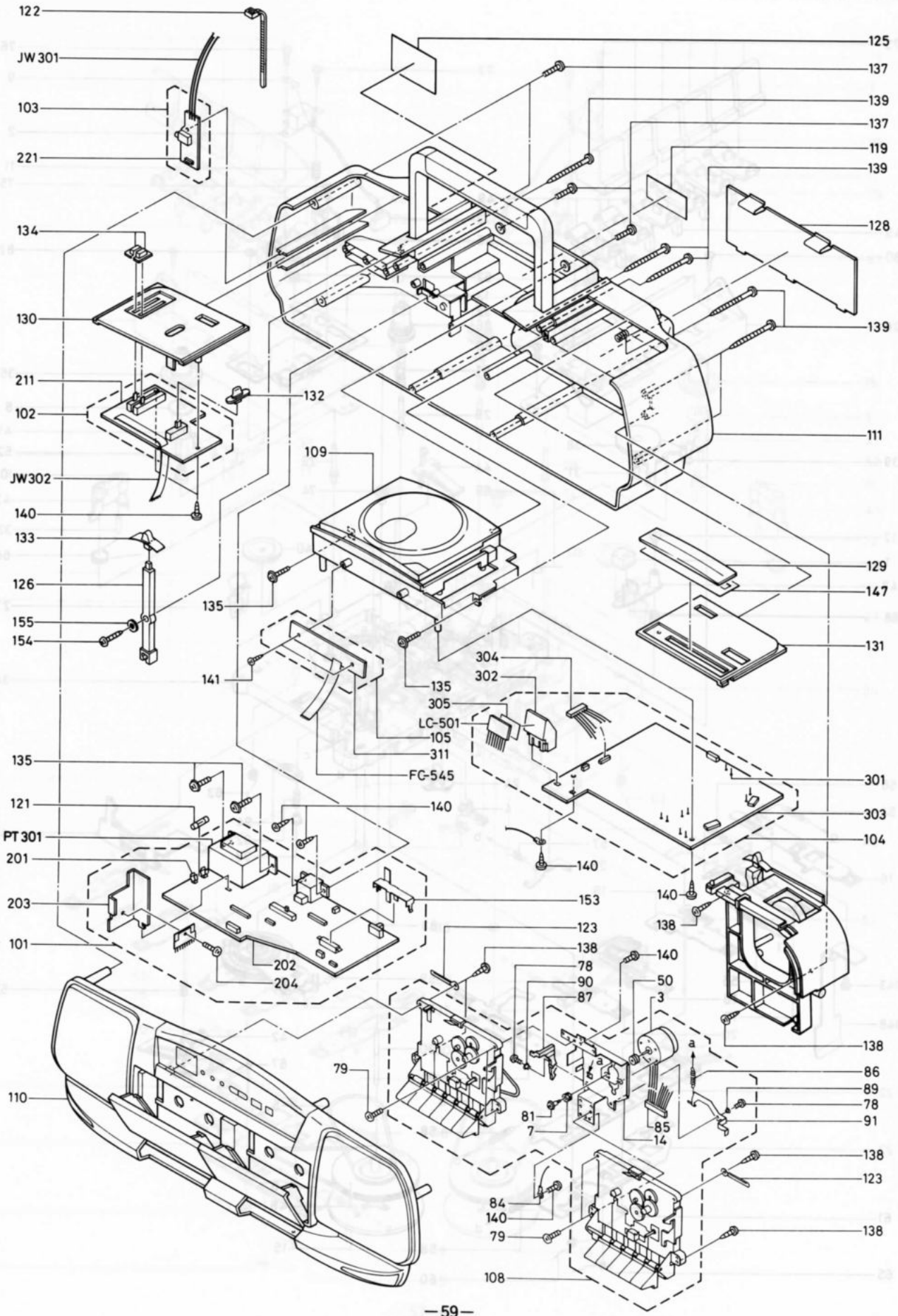
MECHANISM (R/P)



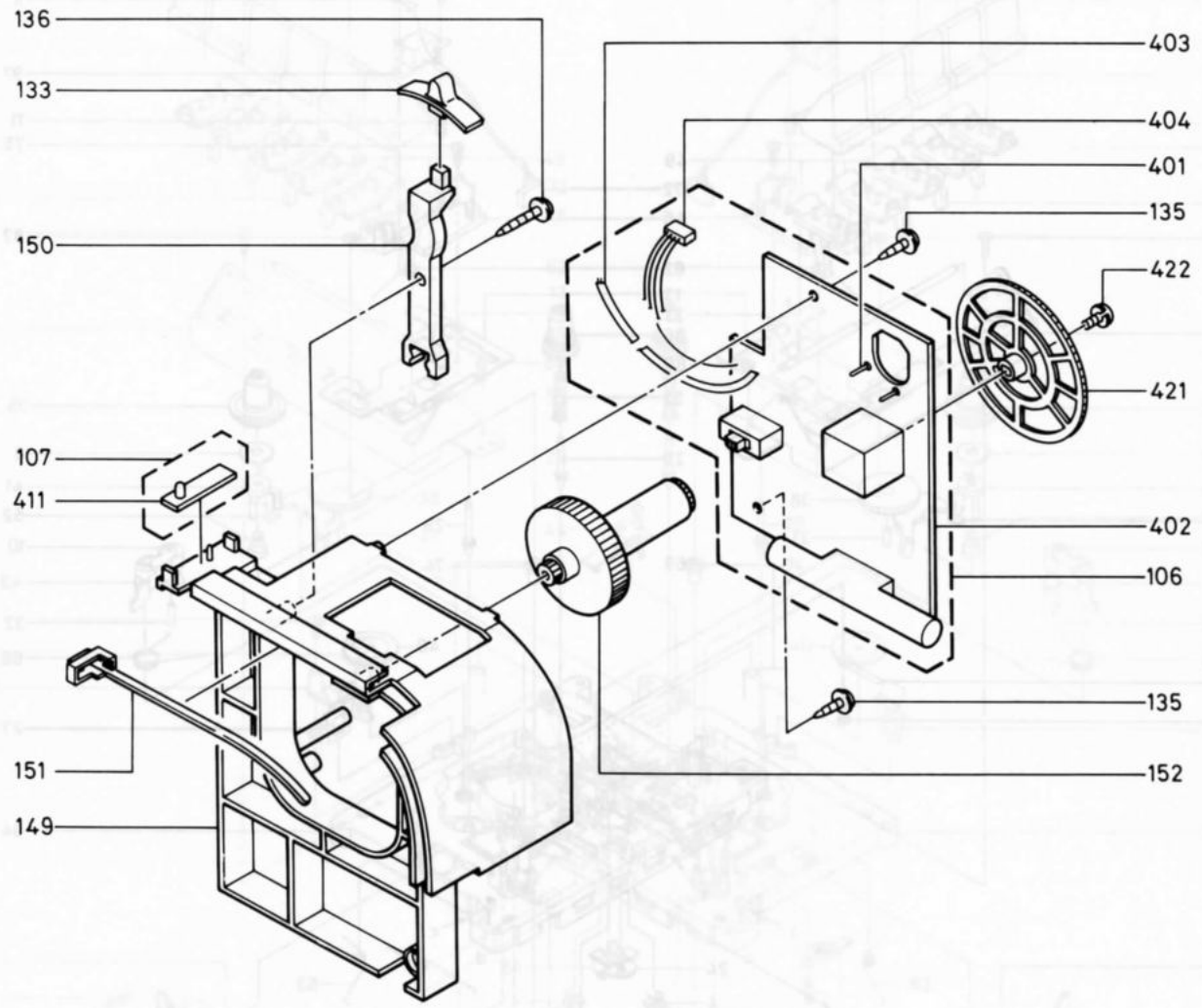


EXPLODED VIEW CHASSIS

MECHANISM (R/P)



### CABINET



EXPLODED VIEW SET UP

CD CHASSIS

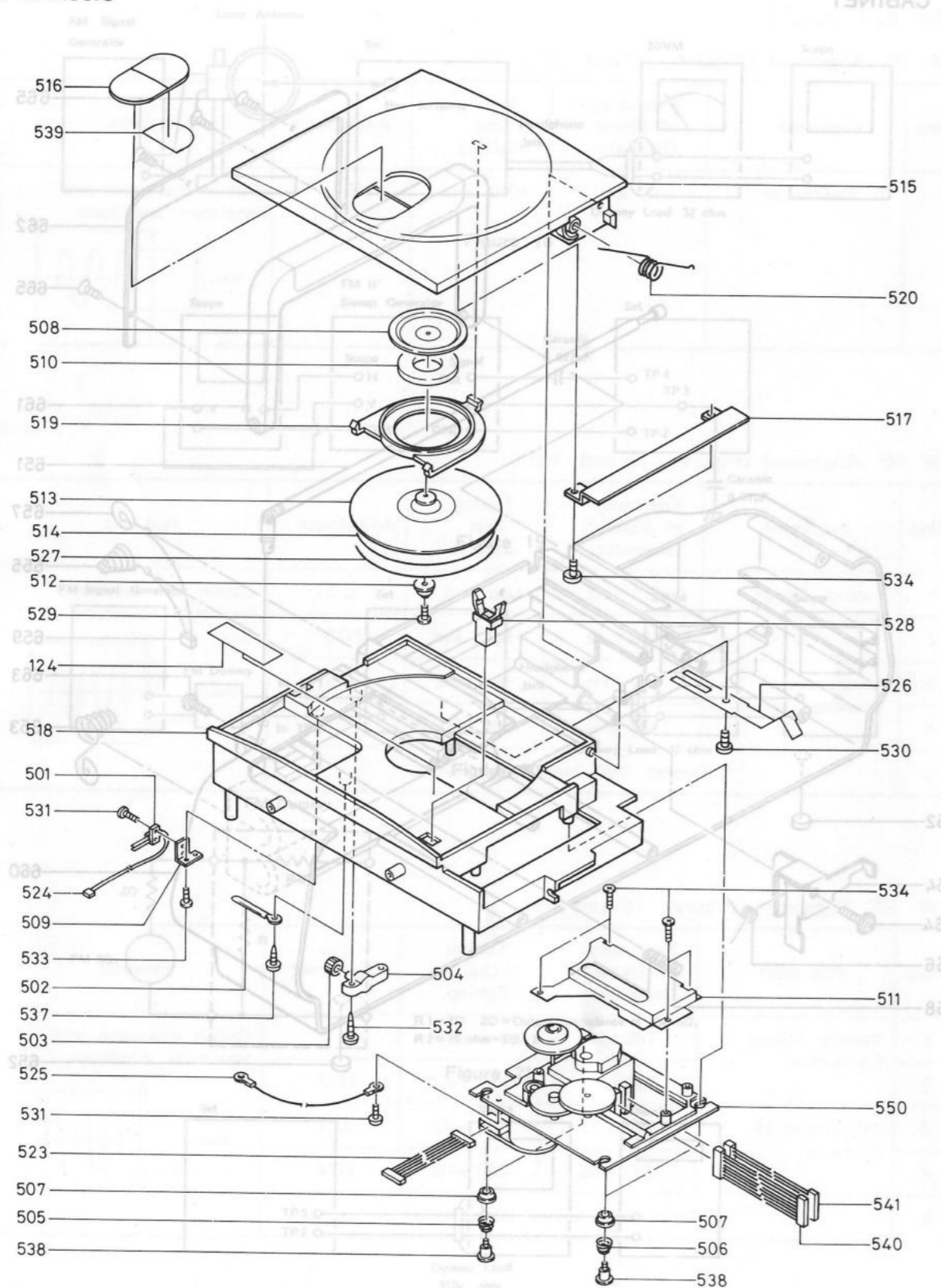
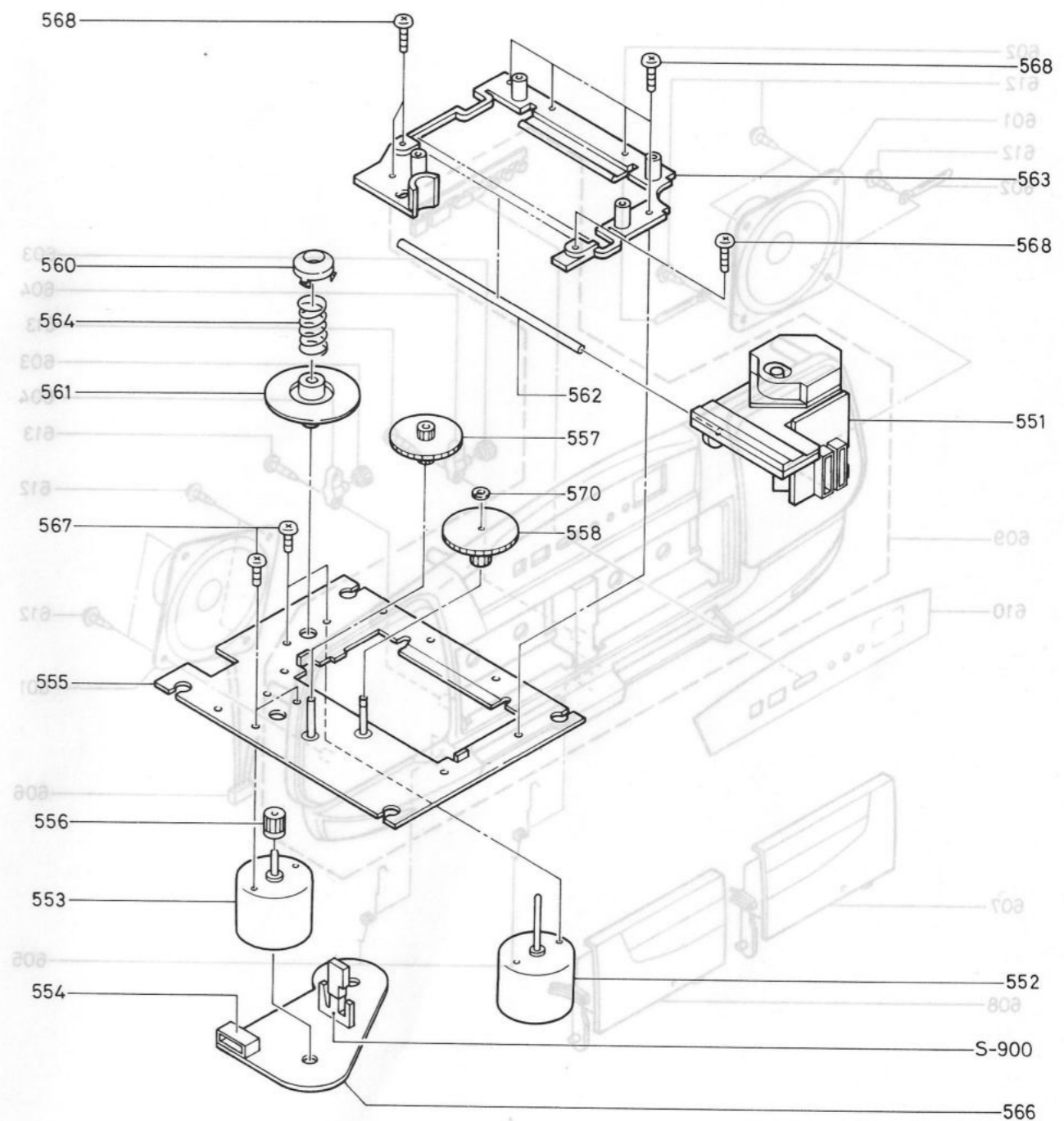


Figure 22

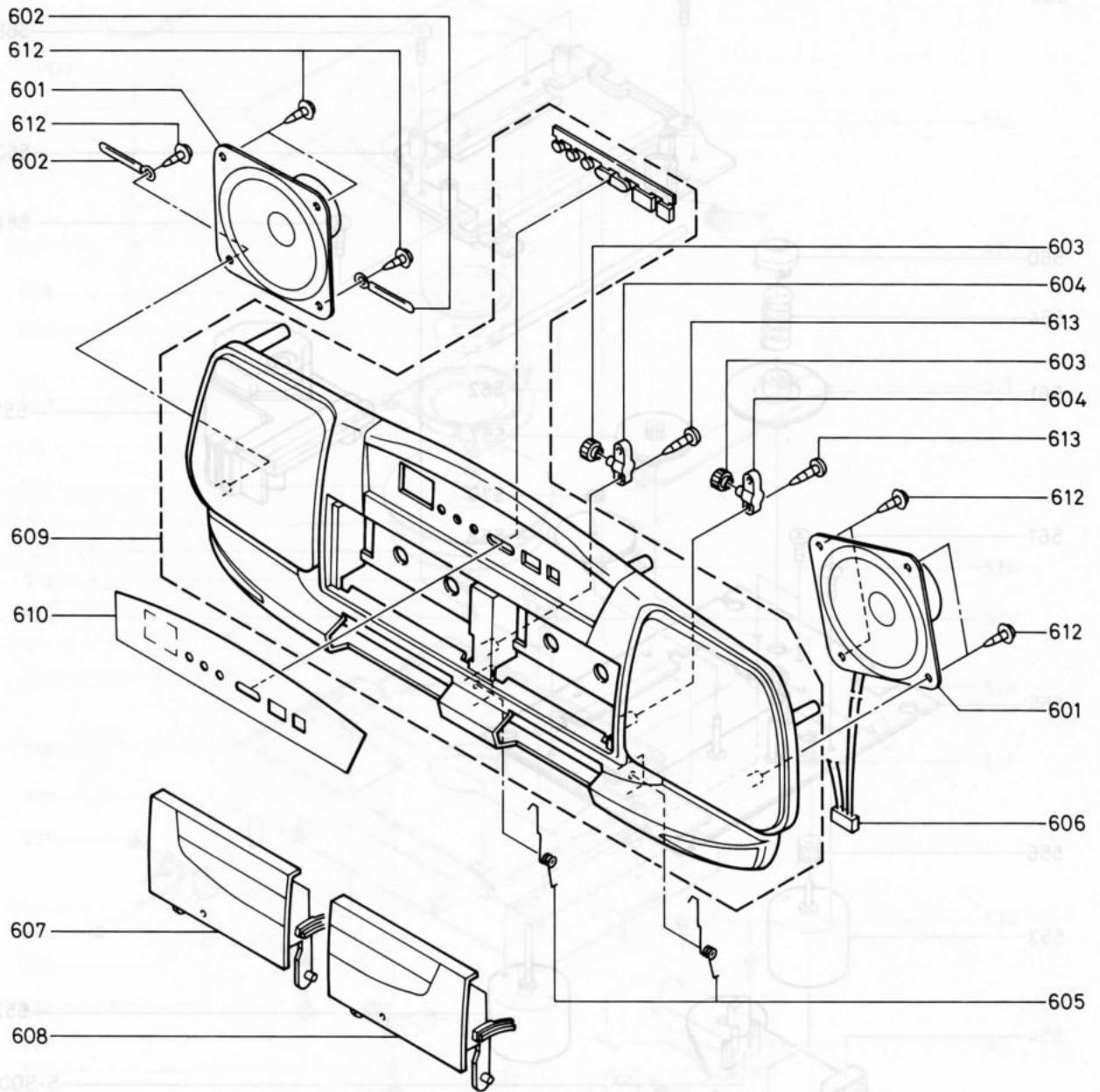
CD MECHANISM



EXPLODED VIEW

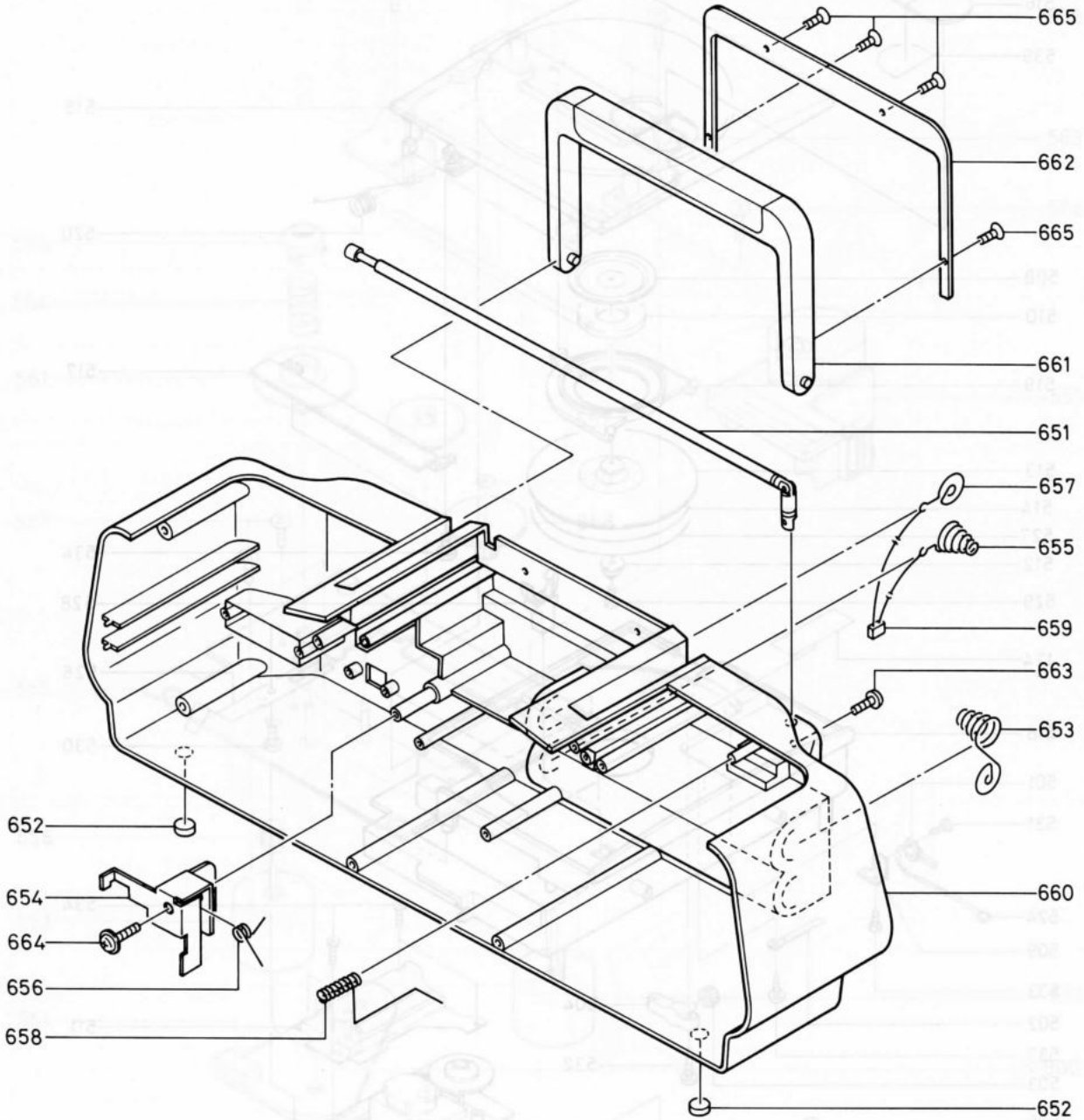
FRONT CABINET

CD MECHANISM





REAR CABINET





**ELECTRICAL PARTS LIST**

**PRODUCT SAFETY NOTE:** Components marked with a  $\Delta$  have special characteristics important to safety. Before replacing any of these components, read carefully, the **PRODUCT SAFETY NOTICE** of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

<b>ABBREVIATIONS:</b>	Capacitors .....	CC: Cylindrical ceramic, CD: Ceramic disc, MF: Mylar film
		EL: Electrolytic, ST: Styrol
	Resistors .....	CF: Carbon film
	Semiconductor .....	Q: Transistor, D: Diode, IC: IC

SYMBOL No.	PART No.	DESCRIPTION	SYMBOL No.	PART No.	DESCRIPTION
<b>CAPACITORS</b>					
C 1	9301-151-5-04	CC 15PF ±5% 50V	C 23	0930-451-8-14	ST 180PF ±5% 50V [for E, E (BS) ]
C 2	9301-152-2-04	CC 22PF ±5% 50V [for E,E (BS) ,W,W (UN) ,W (AU) ]		0930-452-7-24	ST 2700PF ±5% 50V [for W, W (UN) , W (AU) ]
	9301-151-8-04	CC 18PF ±5% 50V [for H, HC]		9301-451-0-25	CC 1000PF ±10% 50V [for H, HC]
C 3	0937-854-7-96	EL 0.47uF ±20% 50V	C 24	9301-156-8-85	CC 6.8PF ±5% 50V [for E, E (BS) ]
C 4	9300-254-7-85	CC 4.7PF ±10% 50V		9301-151-5-04	CC 15PF ±5% 50V [for W, W (UN) , W (AU) ]
C 5	0930-242-7-04	CD 27PF ±5% 50V		0937-814-7-16	EL 470uF ±20% 10V [for H, HC]
C 6	0930-242-7-04	CD 27PF ±5% 50V [for E,E (BS) ,W,W (UN) ,W (AU) ]	C 25	0937-822-2-06	EL 22uF ±20% 16V [for E,E (BS) ,W,W (UN) ,W (AU) ]
	0930-242-4-04	CD 24PF ±5% 50V [for H, HC]		9302-332-2-39	CC 0.033uF +80%/-20% 50V [for H, HC]
C 7	9301-451-0-25	CC 1000PF ±10% 50V [for E,E (BS) ,W,W (UN) ,W (AU) ]	C 26	9301-451-0-25	CC 1000PF ±10% 50V [for E,E (BS) ,W,W (UN) ,W (AU) ]
	9301-456-8-15	CC 680PF ±10% 50V [for H, HC]		9301-156-8-04	CC 68PF ±5% 50V [for H, HC]
C 8	0937-853-3-86	EL 3.3uF ±20% 50V	C 27	9302-332-2-39	CC 0.022uF +80%/-20% 25V
C 9	0937-850-1-06	EL 1uF ±20% 50V	C 28	9302-332-2-39	CC 0.022uF +80%/-20% 25V
C 10	0937-853-3-86	EL 3.3uF ±20% 50V	C 29	9302-332-2-39	CC 0.022uF +80%/-20% 25V
C 11	0937-850-1-06	EL 1uF ±20% 50V	C 30	9302-332-2-39	CC 0.022uF +80%/-20% 25V [for E,E (BS) ,W,W (UN) ,W (AU) ]
C 12	9335-451-0-24	MF 1000PF ±5% 50V	C 31	9302-332-2-39	CC 0.022uF +80%/-20% 25V [for E,E (BS) ,W,W (UN) ,W (AU) ]
C 13	0938-631-5-35	CD 0.015uF ±10% 25V [for E,E (BS) ,W,W (UN) ,W (AU) ]	C 32	0937-814-7-16	EL 470uF ±20% 10V [for E,E (BS) ,W,W (UN) ,W (AU) ]
	9302-332-2-39	CC 0.033uF +80%/-20% 50V [for H, HC]	C 33	9302-332-2-39	CC 0.022uF +80%/-20% 25V [for E,E (BS) ,W,W (UN) ,W (AU) ]
C 14	0938-631-5-35	CD 0.015uF ±10% 25V [for E,E (BS) ,W,W (UN) ,W (AU) ]	C 34	9302-332-2-39	CC 0.022uF +80%/-20% 25V [for E,E (BS) ,W,W (UN) ,W (AU) ]
	9302-332-2-39	CC 0.033uF +80%/-20% 50V [for H, HC]	C 35	9302-332-2-39	CC 0.022uF +80%/-20% 25V [for E,E (BS) ,W,W (UN) ,W (AU) ]
C 15	0936-350-1-06	EL 1uF ±20% 50V	C 36	to Not Used	
C 16	0936-350-1-06	EL 1uF ±20% 50V	C 100		
C 17	9301-151-2-04	CC 12PF ±5% 50V [for E,E (BS) ,W,W (UN) ,W (AU) ]	C 101	9336-756-8-14	MF 680PF ±5% 50V
	9301-152-2-85	CC 2.2PF ±10% 50V [for H, HC]	C 102	9336-758-2-14	MF 820PF ±5% 50V
C 18	9301-151-5-04	CC 15PF ±5% 50V [for E, E (BS) ]	C 103	0931-251-0-25	CD 1000PF ±10% 50V
	9301-153-3-85	CC 3.3PF ±10% 50V [for H, HC]	C 104	0937-842-2-06	EL 22uF ±20% 35V
C 19	9301-155-6-04	CC 56PF ±5% 50V [for E, E (BS) ]	C 105	0938-631-8-35	CD 0.018uF ±10% 25V
	9301-151-0-04	CC 10PF ±5% 50V [for W, W (UN) , W (AU) ]	C 106	0937-854-7-86	EL 4.7uF ±20% 50V
	9302-332-2-39	CC 0.033uF +80%/-20% 50V [for H, HC]	C 107	0937-854-7-86	EL 4.7uF ±20% 50V
C 20	0930-453-6-14	ST 360PF ±5% 50V [for E,E (BS) ,W,W (UN) ,W (AU) ]	C 108	0937-851-0-06	EL 10uF ±20% 50V
	9302-332-2-39	CC 0.033uF +80%/-20% 50V [for H, HC]	C 109	0937-850-1-06	EL 1uF ±20% 50V
C 21	9301-152-4-04	CC 24PF ±5% 50V [for E,E (BS) ,W,W (UN) ,W (AU) ]	C 110	0938-633-3-25	CD 3300PF ±10% 25V
	0937-822-2-06	EL 22uF ±20% 16V [for H, HC]	C 111	0937-850-1-06	EL 1uF ±20% 50V
C 22	9301-451-2-15	CC 120PF ±10% 50V [for E, E (BS) ]	C 112	0937-854-7-86	EL 4.7uF ±20% 50V
	9302-332-2-39	CC 0.033uF +80%/-20% 50V [for H, HC]	C 113	9301-451-0-25	CC 1000PF ±10% 50V
			C 114	0937-834-7-06	EL 47uF ±20% 25V
			C 115	0937-854-7-96	EL 0.47uF ±20% 50V
			C 116	0937-821-0-16	EL 100uF ±20% 16V
			C 117	9335-451-0-45	MF 0.1uF ±10% 50V
			C 118	9335-451-0-45	MF 0.1uF ±10% 50V
			C 119	0937-721-0-26	EL 1000uF ±20% 16V
			C 120	0938-636-8-25	CD 6800PF ±10% 25V
			C 121	9301-456-8-15	CC 680PF ±10% 50V

SYMBOL No.	PART No.	DESCRIPTION
C 122	9301-456-8-15	CC 680PF ±10% 50V
C 123	9301-152-2-04	CC 22PF ±5% 50V
C 124	9301-452-2-15	CC 220PF ±10% 50V
C 125		
to	Not Used	
C 129		
C 130	0937-851-0-96	EL 0.1uF ±20% 50V
C 131	0938-632-2-35	CD 0.022uF ±10% 25V
C 132	0937-851-0-96	EL 0.1uF ±20% 50V
C 133		
to	Not Used	
C 200		
C 201	9336-756-8-14	MF 680PF ±5% 50V
C 202	9336-756-8-14	MF 680PF ±5% 50V
C 203	0931-251-0-25	CD 1000PF ±10% 50V
C 204	0937-842-2-06	EL 22uF ±20% 35V
C 205	0938-631-8-35	CD 0.018uF ±10% 25V
C 206	0937-854-7-86	EL 4.7uF ±20% 50V
C 207	0937-854-7-86	EL 4.7uF ±20% 50V
C 208	0937-851-0-06	EL 10uF ±20% 50V
C 209	0937-850-1-06	EL 1uF ±20% 50V
C 210	0938-633-3-25	CD 3300PF ±10% 25V
C 211	0937-850-1-06	EL 1uF ±20% 50V
C 212	0937-854-7-86	EL 4.7uF ±20% 50V
C 213	9301-451-0-25	CC 1000PF ±10% 50V
C 214	0937-834-7-06	EL 47uF ±20% 25V
C 215	0937-854-7-96	EL 0.47uF ±20% 50V
C 216	0937-821-0-16	EL 100uF ±20% 16V
C 217	9335-451-0-45	MF 0.1uF ±10% 50V
C 218	9335-451-0-45	MF 0.1uF ±10% 50V
C 219	0937-721-0-26	EL 1000uF ±20% 16V
C 220	0938-636-8-25	CD 6800PF ±10% 25V
C 221	9301-456-8-15	CC 680PF ±10% 50V
C 222	9301-456-8-15	CC 680PF ±10% 50V
C 223	9301-152-2-04	CC 22PF ±5% 50V
C 224	9301-452-2-15	CC 220PF ±10% 50V
C 225		
to	Not Used	
C 229		
C 230	0937-851-0-96	EL 0.1uF ±20% 50V
C 231	0938-632-2-35	CD 0.022uF ±10% 25V
C 232	0937-851-0-96	EL 0.1uF ±20% 50V
C 233		
to	Not Used	
C 299		
C 300	0937-722-2-26	EL 2200uF ±20% 16V
C 301	0937-852-2-86	EL 2.2uF ±20% 50V
C 302	0937-711-0-26	EL 1000uF ±20% 10V
C 303	0937-833-3-06	EL 33uF ±20% 25V
C 304	0937-842-2-06	EL 22uF ±20% 35V
C 305	0937-842-2-06	EL 22uF ±20% 35V
C 306	9336-751-8-15	MF 180PF ±10% 50V
C 307	9335-452-2-24	MF 2200PF ±5% 50V
C 308	9302-021-0-35	CC 0.01uF ±10% 16V
C 309	0937-834-7-06	EL 47uF ±20% 25V
C 310	0938-634-7-25	CD 4700PF ±10% 25V
C 311	0938-635-6-25	CD 5600PF ±10% 25V
C 312	9302-021-0-35	CC 0.01uF ±10% 16V
C 313	9302-021-0-35	CC 0.01uF ±10% 16V
C 314	0937-834-7-06	EL 47uF ±20% 25V
C 315	0937-834-7-06	EL 47uF ±20% 25V
C 316	0937-851-0-06	EL 10uF ±20% 50V
C 317	0937-842-2-06	EL 22uF ±20% 35V
C 318	0937-814-7-16	EL 470uF ±20% 10V
C 319	0937-821-0-16	EL 100uF ±20% 16V
C 320	0937-854-7-86	EL 4.7uF ±20% 50V
C 321	0937-834-7-06	EL 47uF ±20% 25V
C 322	0937-722-2-26	EL 2200uF ±20% 16V
C 323	0937-833-3-06	EL 33uF ±20% 25V
C 324	0937-821-0-16	EL 100uF ±20% 16V
C 325	9302-021-0-35	CC 0.01uF ±10% 16V
C 326	9302-021-0-35	CC 0.01uF ±10% 16V
C 327	9302-021-0-35	CC 0.01uF ±10% 16V

SYMBOL No.	PART No.	DESCRIPTION
C 328	9302-021-0-35	CC 0.01uF ±10% 16V
C 329	0931-254-7-15	CD 470PF ±10% 50V
C 330	0937-814-7-16	EL 470uF ±20% 10V
C 331		
to	Not Used	
C 339		
C 340	0931-831-8-35	CD 0.018uF ±10% 25V
C 341		
to	Not Used	
C 500		
C 501	0937-850-1-06	EL 1uF ±20% 50V
C 502	0937-811-0-16	EL 100uF ±20% 10V
C 503	0937-851-0-06	EL 10uF ±20% 50V
C 504	9335-754-7-24	MF 4700PF ±5% 50V
C 505	0930-245-6-04	CD 56PF ±5% 50V
C 506	0937-814-7-06	EL 47uF ±20% 10V
C 507	0937-814-7-06	EL 47uF ±20% 10V
C 508	0937-814-7-06	EL 47uF ±20% 10V
C 509	0933-453-3-34	CF 0.033uF ±5% 50V
C 510	9335-751-0-24	MF 1000PF ±5% 50V
C 511	Not Used	
C 512	9335-754-7-24	MF 4700PF ±5% 50V
C 513	0933-453-3-34	CF 0.033uF ±5% 50V
C 514	9335-751-0-34	MF 0.01uF ±5% 50V
C 515	0937-854-7-96	EL 0.47uF ±20% 50V
C 516	9335-751-0-34	MF 0.01uF ±5% 50V
C 517		
to	Not Used	
C 519		
C 520	0933-451-0-44	CF 0.1uF ±5% 50V
C 521	0933-453-3-34	CF 0.033uF ±5% 50V
C 522	0937-854-7-86	EL 4.7uF ±20% 50V
C 523	0933-451-0-44	CF 0.1uF ±5% 50V
C 524	0937-812-2-06	EL 22uF ±20% 10V
C 525	0937-852-2-96	EL 0.22uF ±20% 50V
C 526	9302-021-0-35	CC 0.01uF ±10% 16V
C 527	9335-751-0-34	MF 0.01uF ±5% 50V
C 528	9302-351-0-49	CC 0.1uF +80%/-20% 50V
C 529	9302-354-7-39	CC 0.047uF +80%/-20% 50V
C 530	0936-652-2-86	EL 2.2uF ±20% 50V
C 531	0937-812-2-06	EL 22uF ±20% 10V
C 532	9301-451-0-25	CC 1000PF ±10% 50V
C 533	0933-453-3-34	CF 0.033uF ±5% 50V
C 534	0937-854-7-96	EL 0.47uF ±20% 50V
C 535	9302-351-0-49	CC 0.1uF +80%/-20% 50V
C 536	9302-351-0-49	CC 0.1uF +80%/-20% 50V
C 537	9301-152-2-04	CC 22PF ±5% 50V
C 538	0930-244-7-04	CC 47PF ±5% 50V
C 539	0930-244-7-04	CC 47PF ±5% 50V
C 540	0937-814-7-06	EL 47uF ±20% 10V
C 541	9302-351-0-49	CC 0.1uF +80%/-20% 50V
C 542	9302-354-7-39	CC 0.047uF +80%/-20% 50V
C 543	0937-852-2-86	EL 2.2uF ±20% 50V
C 544	0937-852-2-96	EL 0.22uF ±20% 50V
C 545	0937-811-0-16	EL 100uF ±20% 10V
C 546	0937-814-7-16	EL 470uF ±20% 10V
C 547	0937-821-0-16	EL 100uF ±20% 16V
C 548	0937-821-0-16	EL 100uF ±20% 16V
C 549	Not Used	
C 550	0937-814-7-16	EL 470uF ±20% 10V
C 551	9301-451-0-25	CC 1000PF ±10% 50V
C 552		
to	Not Used	
C 600		
C 601	0937-811-0-16	EL 100uF ±20% 10V
C 602	0937-852-2-86	EL 2.2uF ±20% 50V
C 603	9335-758-2-24	MF 8200PF ±5% 50V
C 604	0933-453-3-34	CF 0.033uF ±5% 50V
C 605	9335-751-0-24	MF 1000PF ±5% 50V
C 606	0937-851-0-06	EL 10uF ±20% 50V
C 607	0933-453-3-34	CF 0.033uF ±5% 50V
C 608	9301-451-8-15	CC 180PF ±10% 50V

SYMBOL No.	PART No.	DESCRIPTION
C 609 to C 700	Not Used	
C 701	0937-811-0-16	EL 100uF ±20% 10V
C 702	0937-852-2-86	EL 2.2uF ±20% 50V
C 703	9335-758-2-24	MF 8200PF ±5% 50V
C 704	0933-453-3-34	CF 0.033uF ±5% 50V
C 705	9335-751-0-24	MF 1000PF ±5% 50V
C 706	0937-851-0-06	EL 10uF ±20% 50V
C 707	0933-453-3-34	CF 0.033uF ±5% 50V
C 708	9301-451-8-15	CC 180PF ±10% 50V
RESISTORS		
R 1	0920-861-0-44	CF 100k ohm ±5% SRD 1/ 6P
R 2	0920-861-0-44	CF 100k ohm ±5% SRD 1/ 6P
R 3	0920-862-2-04	CF 22 ohm ±5% SRD 1/ 6P
R 4	0920-861-0-04	CF 10 ohm ±5% SRD 1/ 6P
R 5	0920-861-0-24	CF 1k ohm ±5% SRD 1/ 6P
R 6	0920-861-2-34	CF 12k ohm ±5% SRD 1/ 6P
R 7	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 8	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 9	0920-862-2-34	CF 22k ohm ±5% SRD 1/ 6P
		[for E,E (BS) ,W,W (UN) ,W (AU)]
	0920-863-3-34	CF 33k ohm ±5% SRD 1/ 6P
		[for H, HC]
R 10	0920-861-0-14	CF 100 ohm ±5% SRD 1/ 6P
R 11	0920-863-9-24	CF 3.9k ohm ±5% SRD 1/ 4P
R 12	0920-865-6-14	CF 560 ohm ±5% SRD 1/ 6P
R 13	0920-023-9-04	CF 39 ohm ±5% SRD 1/ 4P
R 14	0920-864-7-04	CF 47 ohm ±5% SRD 1/ 6P
		[for E,E (BS) ,W,W (UN) ,W (AU)]
R 15	0920-863-9-24	CF 3.9k ohm ±5% SRD 1/ 6P
		[for W, W (UN) , W (AU) ]
R 16	0920-865-6-14	CF 560 ohm ±5% SRD 1/ 6P
		[for E,E (BS) ,W,W (UN) ,W (AU)]
R 17 to R 100	Not Used	
R 101	0920-862-2-34	CF 22k ohm ±5% SRD 1/ 6P
R 102	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 103	0920-862-2-14	CF 220 ohm ±5% SRD 1/ 6P
R 104	0920-862-2-44	CF 220k ohm ±5% SRD 1/ 6P
R 105	0920-867-5-24	CF 7.5k ohm ±5% SRD 1/ 6P
R 106	0920-862-2-34	CF 22k ohm ±5% SRD 1/ 6P
R 107	0920-861-8-44	CF 180k ohm ±5% SRD 1/ 6P
R 108	0920-861-8-44	CF 180k ohm ±5% SRD 1/ 6P
R 109	0920-861-5-24	CF 1.5k ohm ±5% SRD 1/ 6P
R 110	0920-863-3-44	CF 330k ohm ±5% SRD 1/ 6P
R 111	0920-864-7-24	CF 4.7k ohm ±5% SRD 1/ 6P
R 112	0920-865-6-34	CF 56k ohm ±5% SRD 1/ 6P
R 113	0920-863-9-34	CF 39k ohm ±5% SRD 1/ 6P
R 114	0920-863-9-34	CF 39k ohm ±5% SRD 1/ 6P
R 115	0920-862-7-24	CF 2.7k ohm ±5% SRD 1/ 6P
R 116	0920-861-8-34	CF 18k ohm ±5% SRD 1/ 6P
R 117	0920-862-7-24	CF 2.7k ohm ±5% SRD 1/ 6P
R 118	0920-863-9-44	CF 390k ohm ±5% SRD 1/ 6P
R 119	0920-861-0-24	CF 1k ohm ±5% SRD 1/ 6P
R 120	0920-862-2-24	CF 2.2k ohm ±5% SRD 1/ 6P
R 121	0920-865-6-04	CF 56 ohm ±5% SRD 1/ 6P
R 122	0920-862-7-34	CF 27k ohm ±5% SRD 1/ 6P
R 123	0920-813-3-84	CF 3.3 ohm ±5% SRD 1/ 4P
R 124 to R 129	Not Used	
R 130	0920-865-6-34	CF 56k ohm ±5% SRD 1/ 6P
R 131	0920-863-3-34	CF 33k ohm ±5% SRD 1/ 6P
R 132	0920-862-2-34	CF 22k ohm ±5% SRD 1/ 6P
R 133	0920-863-9-44	CF 390k ohm ±5% SRD 1/ 6P
R 134	0920-864-7-84	CF 4.7 ohm ±5% SRD 1/ 6P
R 135	0920-862-2-24	CF 2.2k ohm ±5% SRD 1/ 6P
R 136	0920-866-8-44	CF 680k ohm ±5% SRD 1/ 6P

SYMBOL No.	PART No.	DESCRIPTION
R 137	0920-863-3-24	CF 3.3k ohm ±5% SRD 1/ 6P
R 138	Not Used	
R 139	Not Used	
R 140	0920-811-5-14	CF 150 ohm ±5% SRD 1/ 4P
R 141 to R 200	Not Used	
R 201	0920-862-2-34	CF 22k ohm ±5% SRD 1/ 6P
R 202	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 203	0920-862-2-14	CF 220 ohm ±5% SRD 1/ 6P
R 204	0920-862-2-44	CF 220k ohm ±5% SRD 1/ 6P
R 205	0920-867-5-24	CF 7.5k ohm ±5% SRD 1/ 6P
R 206	0920-862-2-34	CF 22k ohm ±5% SRD 1/ 6P
R 207	0920-861-8-44	CF 180k ohm ±5% SRD 1/ 6P
R 208	0920-861-8-44	CF 180k ohm ±5% SRD 1/ 6P
R 209	0920-861-5-24	CF 1.5k ohm ±5% SRD 1/ 6P
R 210	0920-863-3-44	CF 330k ohm ±5% SRD 1/ 6P
R 211	0920-864-7-24	CF 4.7k ohm ±5% SRD 1/ 6P
R 212	0920-865-6-34	CF 56k ohm ±5% SRD 1/ 6P
R 213	0920-863-9-34	CF 39k ohm ±5% SRD 1/ 6P
R 214	0920-863-9-34	CF 39k ohm ±5% SRD 1/ 6P
R 215	0920-862-7-24	CF 2.7k ohm ±5% SRD 1/ 6P
R 216	0920-861-8-34	CF 18k ohm ±5% SRD 1/ 6P
R 217	0920-862-7-24	CF 2.7k ohm ±5% SRD 1/ 6P
R 218	0920-863-9-44	CF 390k ohm ±5% SRD 1/ 6P
R 219	0920-861-0-24	CF 1k ohm ±5% SRD 1/ 6P
R 220	0920-862-2-24	CF 2.2k ohm ±5% SRD 1/ 6P
R 221	0920-865-6-04	CF 56 ohm ±5% SRD 1/ 6P
R 222	0920-862-7-34	CF 27k ohm ±5% SRD 1/ 6P
R 223	0920-813-3-84	CF 3.3 ohm ±5% SRD 1/ 4P
R 224 to R 229	Not Used	
R 230	0920-865-6-34	CF 56k ohm ±5% SRD 1/ 6P
R 231	0920-863-3-34	CF 33k ohm ±5% SRD 1/ 6P
R 232	0920-862-2-34	CF 22k ohm ±5% SRD 1/ 6P
R 233	0920-863-9-44	CF 390k ohm ±5% SRD 1/ 6P
R 234	0920-864-7-84	CF 4.7 ohm ±5% SRD 1/ 6P
R 235	0920-862-2-24	CF 2.2k ohm ±5% SRD 1/ 6P
R 236	0920-866-8-44	CF 680k ohm ±5% SRD 1/ 6P
R 237	0920-863-3-24	CF 3.3k ohm ±5% SRD 1/ 6P
R 238	Not Used	
R 239	Not Used	
R 240	0920-811-5-14	CF 150 ohm ±5% SRD 1/ 4P
R 241 to R 300	Not Used	
R 301	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 302	0920-862-2-54	CF 2.2M ohm ±5% SRD 1/ 6P
R 303	0920-864-7-34	CF 47k ohm ±5% SRD 1/ 6P
R 304	0920-864-7-24	CF 4.7k ohm ±5% SRD 1/ 6P
R 305	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 306	0920-864-7-24	CF 4.7k ohm ±5% SRD 1/ 6P
R 307	0920-811-0-14	CF 100 ohm ±5% SRD 1/ 4P
R 308	0920-813-3-14	CF 330 ohm ±5% SRD 1/ 4P
R 309	0920-866-8-04	CF 68 ohm ±5% SRD 1/ 6P
R 310	0920-866-8-34	CF 68k ohm ±5% SRD 1/ 6P
R 311	0920-813-3-04	CF 33 ohm ±5% SRD 1/ 4P
R 312	0920-861-8-34	CF 18k ohm ±5% SRD 1/ 6P
R 313	0920-862-2-34	CF 22k ohm ±5% SRD 1/ 6P
R 314	0920-813-9-14	CF 390 ohm ±5% SRD 1/ 4P
R 315	0920-863-3-34	CF 33k ohm ±5% SRD 1/ 6P
R 316	0920-864-7-24	CF 4.7k ohm ±5% SRD 1/ 6P
R 317	0920-862-7-14	CF 270 ohm ±5% SRD 1/ 4P
R 318	0920-865-6-14	CF 560 ohm ±5% SRD 1/ 6P
R 319	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 320	0920-861-2-34	CF 12k ohm ±5% SRD 1/ 6P
R 321	0920-861-0-24	CF 1k ohm ±5% SRD 1/ 6P
R 322	0920-862-2-14	CF 220 ohm ±5% SRD 1/ 6P
R 323 to R 329	Not Used	
R 330	0920-813-3-14	CF 330 ohm ±5% SRD 1/ 4P



SYMBOL No.	PART No.	DESCRIPTION
R 331 to R 500	Not Used	
R 501	0920-861-0-14	CF 100 ohm ±5% SRD 1/ 6P
R 502	0920-812-2-04	CF 22 ohm ±5% SRD 1/ 4P
R 503	0920-861-0-24	CF 1k ohm ±5% SRD 1/ 6P
R 504	0920-861-0-24	CF 1k ohm ±5% SRD 1/ 6P
R 505	0920-861-5-24	CF 1.5k ohm ±5% SRD 1/ 6P
R 506	0920-862-0-34	CF 20k ohm ±5% SRD 1/ 6P
R 507	0920-861-0-24	CF 1k ohm ±5% SRD 1/ 6P
R 508	0920-862-2-44	CF 220k ohm ±5% SRD 1/ 6P
R 509	0920-864-3-34	CF 43k ohm ±5% SRD 1/ 6P
R 510	0920-861-8-44	CF 180k ohm ±5% SRD 1/ 6P
R 511	0920-862-2-34	CF 22k ohm ±5% SRD 1/ 6P
R 512	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 513	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 514	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 515	Not Used	
R 516	Not Used	
R 517	0920-862-2-34	CF 22k ohm ±5% SRD 1/ 6P
R 518	Not Used	
R 519	0920-861-0-24	CF 1k ohm ±5% SRD 1/ 6P
R 520	0920-861-0-44	CF 100k ohm ±5% SRD 1/ 6P
R 521	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 522 to R 524	Not Used	
R 525	0920-866-8-34	CF 68k ohm ±5% SRD 1/ 6P
R 526	0920-865-6-34	CF 56k ohm ±5% SRD 1/ 6P
R 527	0920-868-2-34	CF 82k ohm ±5% SRD 1/ 6P
R 528	0920-863-3-34	CF 33k ohm ±5% SRD 1/ 6P
R 529	0920-868-2-24	CF 8.2k ohm ±5% SRD 1/ 6P
R 530	0920-866-8-34	CF 68k ohm ±5% SRD 1/ 6P
R 531	0920-865-1-44	CF 510k ohm ±5% SRD 1/ 6P
R 532	0920-861-0-44	CF 100k ohm ±5% SRD 1/ 6P
R 533	0920-863-3-34	CF 33k ohm ±5% SRD 1/ 6P
R 534	0920-863-3-34	CF 33k ohm ±5% SRD 1/ 6P
R 535	0920-863-3-34	CF 33k ohm ±5% SRD 1/ 6P
R 536	0920-863-3-34	CF 33k ohm ±5% SRD 1/ 6P
R 537	0920-863-3-34	CF 33k ohm ±5% SRD 1/ 6P
R 538	0920-863-3-34	CF 33k ohm ±5% SRD 1/ 6P
R 539	0920-868-2-34	CF 82k ohm ±5% SRD 1/ 6P
R 540	0920-863-3-34	CF 33k ohm ±5% SRD 1/ 6P
R 541	0920-863-3-34	CF 33k ohm ±5% SRD 1/ 6P
R 542	0920-861-2-44	CF 120k ohm ±5% SRD 1/ 6P
R 543	0920-863-3-24	CF 3.3k ohm ±5% SRD 1/ 6P
R 544	0920-861-0-44	CF 100k ohm ±5% SRD 1/ 6P
R 545	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 546	0920-861-0-44	CF 100k ohm ±5% SRD 1/ 6P
R 545	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 546	0920-861-0-44	CF 100k ohm ±5% SRD 1/ 6P
R 547	0920-861-0-44	CF 100k ohm ±5% SRD 1/ 6P
R 548	0920-862-2-34	CF 22k ohm ±5% SRD 1/ 6P
R 549	0920-861-0-54	CF 1M ohm ±5% SRD 1/ 6P
R 550	0920-861-0-24	CF 1k ohm ±5% SRD 1/ 6P
R 551	0920-861-5-14	CF 150 ohm ±5% SRD 1/ 6P
R 552	0920-861-5-14	CF 150 ohm ±5% SRD 1/ 6P
R 553	0920-861-5-14	CF 150 ohm ±5% SRD 1/ 6P
R 554	0920-864-7-24	CF 4.7k ohm ±5% SRD 1/ 6P
R 555	0920-861-5-14	CF 150 ohm ±5% SRD 1/ 6P
R 556	0920-861-0-24	CF 1k ohm ±5% SRD 1/ 6P
R 557	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 558	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 559	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 560	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 561	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 562	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 563	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 564	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 565	0920-865-6-44	CF 560k ohm ±5% SRD 1/ 6P
R 566	0920-861-0-24	CF 1k ohm ±5% SRD 1/ 6P
R 567	0920-863-3-14	CF 330 ohm ±5% SRD 1/ 6P
R 568	Not Used	

SYMBOL No.	PART No.	DESCRIPTION
R 569	0920-861-0-34	CF 10k ohm ±5% SRD 1/ 6P
R 570 to R 600	Not Used	
R 601	0920-861-0-44	CF 100k ohm ±5% SRD 1/ 6P
R 602	0920-861-0-44	CF 100k ohm ±5% SRD 1/ 6P
R 603	0920-861-1-24	CF 1.1k ohm ±5% SRD 1/ 6P
R 604	0920-861-1-24	CF 1.1k ohm ±5% SRD 1/ 6P
R 605	0920-861-1-24	CF 1.1k ohm ±5% SRD 1/ 6P
R 606	0920-861-0-24	CF 1k ohm ±5% SRD 1/ 6P
R 607	0920-861-0-44	CF 100k ohm ±5% SRD 1/ 6P
R 608	0920-863-3-14	CF 330 ohm ±5% SRD 1/ 6P
R 609	0920-861-0-54	CF 1M ohm ±5% SRD 1/ 6P
R 610	0920-862-2-24	CF 2.2k ohm ±5% SRD 1/ 6P
R 611	0920-861-0-44	CF 100k ohm ±5% SRD 1/ 6P
R 612	0920-862-2-34	CF 22k ohm ±5% SRD 1/ 6P
R 613 to R 700	Not Used	
R 701	0920-861-0-44	CF 100k ohm ±5% SRD 1/ 6P
R 702	0920-861-0-44	CF 100k ohm ±5% SRD 1/ 6P
R 703	0920-861-1-24	CF 1.1k ohm ±5% SRD 1/ 6P
R 704	0920-861-1-24	CF 1.1k ohm ±5% SRD 1/ 6P
R 705	0920-861-1-24	CF 1.1k ohm ±5% SRD 1/ 6P
R 706	0920-861-0-24	CF 1k ohm ±5% SRD 1/ 6P
R 707	0920-861-0-44	CF 100k ohm ±5% SRD 1/ 6P
R 708	0920-863-3-14	CF 330 ohm ±5% SRD 1/ 6P
R 709	0920-861-0-54	CF 1M ohm ±5% SRD 1/ 6P
R 710	0920-862-2-24	CF 2.2k ohm ±5% SRD 1/ 6P
R 711	0920-861-0-44	CF 100k ohm ±5% SRD 1/ 6P
R 712	0920-862-2-34	CF 22k ohm ±5% SRD 1/ 6P

COILS and FILTERS

L 1	0013-024-0-00	Coil
L 2	0014-312-0-00	Coil
L 3/ 4	0016-237-0-00	Bar Antenna [for E, E (BS)]
	0016-268-0-00	Bar Antenna [for W, W (UN), W (AU)]
L 3	0016-238-0-00	Bar Antenna [for H, HC]
L 4	0014-517-0-40	Osc Coil, AM [for H, HC]
L 5	0014-729-0-00	OSC Coil- 7, MW [for E,E (BS),W,W (UN),W (AU)]
	0012-135-0-00	FM IFT, FM Detect [for H, HC]
L 6	0014-730-0-00	Osc Coil- 7, LW [for E, E (BS)]
L 7	0012-135-0-00	FM IFT, FM Detect [for E,E (BS),W,W (UN),W (AU)]
L 501	0991-401-0-05	LHL06TB100K
BF 1	0039-879-0-00 or 0039-878-0-00	Band-pass Filter
CF 1	0039-015-0-00	Ceramic Filter, 455 kHz [for E,W,W (UN),W (AU),H,HC]
	0039-088-0-00	Ceramic Filter, 465 kHz [for E (BS)]
CF 2	0039-001-0-00 or 0039-104-0-00	Ceramic Filter, 10.7 MHz
CF 501	0038-939-0-00	Ceramic Resonator 8.467 MHz

DIODES

D 1	0915-003-9-00	1SS 133
D 2	0915-003-9-00	1SS 133
D 3	0915-003-5-00	SD115
D 4	0916-027-6-00	LT1711G- 81, LED
D 301	0915-003-9-00	1SS 133
D 302	0915-005-2-02	MPG 06B
D 303	0915-003-9-00	1SS 133
D 304	0915-003-9-00	1SS 133



SYMBOL No.	PART No.	DESCRIPTION
D 305	Not Used	
D 306	0915-003-9-00	1SS 133
D 307	0915-010-1-01	RD7.5ESB1
D 308	0915-011-9-00	RB100A
D 309	0915-008-5-01	RD8.2ESB1
D 310	0913-011-0-00	WO 2G
D 311	0915-005-2-02	MPG 06B [for W, W (UN) , W (AU)]
D 501	0915-003-9-00 or 0915-003-6-00	1SS 133 1SS 270
D 502	Not Used	
D 503	Not Used	
D 504	0915-003-9-00 or 0915-003-6-00	1SS 133 1SS 270
D 505	0915-003-9-00 or 0915-003-6-00	1SS 133 1SS 270
D 506	0915-003-9-00 or 0915-003-6-00	1SS 133 1SS 270
D 507	0915-005-2-00	MPG 06B
<b>IC's and TRANSISTORS</b>		
IC 1	0911-105-3-00	TA8167N Tuner Circuit
IC 301	0911-123-6-00	TA8189N Pre/Rec/ALC Amp.
IC 302	0911-144-0-00	LA 4597 Power Amp.
IC 501	0911-081-2-00	CXA 1081S RF Amp.
IC 502	0911-091-5-00	CXA 1082BQ Servo Signal Processor
IC 503	0911-113-2-00	CXD 1167Q Digital Signal Processor
IC 504	0037-151-0-00	CXP 5084H- 545Q Micro Processor
IC 505	0911-134-3-00	BA6294 Motor Actuator Drive
IC 506	0911-134-3-00	BA6294 Motor Actuator Drive
IC 507	0911-104-8-00 or 0911-114-6-00	UPD 6372CX D/A Converter UPD 6376CX
IC 508	0911-046-3-00 or 0911-080-9-00	UPC 4558C Analog Filter BA4558
IC 509	0911-097-2-00	NJM 2930F 05 Regulator
Q 101	0906-206-4-01 or 0906-227-6-00	BA1A 4Z RN1211
Q 102	0906-206-4-01 or 0906-227-6-00	BA1A 4Z RN1211
Q 103	0906-206-4-01 or 0906-227-6-00	BA1A 4Z RN1211
Q 104	0906-200-4-55	2SC 1815-GR
Q 105	0906-206-4-01 or 0906-227-6-00	BA1A 4Z RN1211
Q 130	0906-200-4-55	2SC 1815-GR
Q 201	0906-206-4-01 or 0906-227-6-00	BA1A 4Z RN1211
Q 202	0906-206-4-01 or 0906-227-6-00	BA1A 4Z RN1211
Q 203	0906-206-4-01 or 0906-227-6-00	BA1A 4Z RN1211
Q 204	0906-200-4-55	2SC 1815-GR
Q 205	0906-206-4-01 or 0906-227-6-00	BA1A 4Z RN1211
Q 230	0906-200-4-55	2SC 1815-GR
Q 301	0906-206-4-01 or 0906-227-6-00	BA1A 4Z RN1211
Q 302	0906-206-4-01 or 0906-227-6-00	BA1A 4Z RN1211
Q 303	0906-200-4-55	2SC 1815-GR
Q 304	0906-206-4-01 or 0906-227-6-00	BA1A 4Z RN1211
Q 305	0906-206-4-01 or 0906-227-6-00	BA1A 4Z RN1211
Q 306	0906-206-5-12 or 0906-228-8-00	BN1L 4M RN2204
Q 307	0906-202-0-03	2SD 467-C
Q 308	0906-206-4-01 or 0906-227-6-00	BA1A 4Z RN1211
Q 501	0906-202-3-55	2SC 1048-GR

SYMBOL No.	PART No.	DESCRIPTION
Q 502	0906-224-7-00 or 0906-227-7-00	BN1A 4Z RN2211
Q 503	0906-224-7-00 or 0906-227-7-00	BN1A 4Z RN2211
Q 504	0906-206-4-01 or 0906-227-6-00	BA1A 4Z RN1211
Q 601	0906-203-5-02 or 0906-207-0-12	2SC 2878-B 2SC 2001-L
Q 701	0906-203-5-02 or 0906-207-0-12	2SC 2878-B 2SC 2001-L
<b>JACKS</b>		
J301	0033-462-0-01	Mini Jack 3.5mm Headphone
J302	0033-444-0-00	Mini Jack 3.5mm Line Out
△ J400	0033-030-0-00	AC Socket [for E,E (BS) ,W,W (UN) ,W (AU)]
△ J401	0033-029-0-00 0033-635-1-00	AC Socket [for H, HC] Ext. DC Jack [for W, W (UN) , W (AU)]
<b>SWITCHES</b>		
S 1	0028-298-0-00 0028-337-0-00	Slide Switch Band Select [for E,E (BS) ,W,W (UN) ,W (AU)] Slide Switch Band Select [for H, HC]
S 301	0028-336-0-00	Slide Switch Record/Play
S 302	0028-334-0-00	Slide Switch Beat Cut
S 303	0028-341-0-00	Slide Switch Function
△ S 305	0036-025-0-00	Rotary Switch Voltage Select [for W, W (UN) , W (AU)]
S 330	0028-333-0-00	Slide Switch BBS In/Out
S 801	0028-813-0-00 or 0028-840-0-00	Tact Switch Tact Switch
S 802	0028-813-0-00 or 0028-840-0-00	Tact Switch Tact Switch
S 803	0028-813-0-00 or 0028-840-0-00	Tact Switch Tact Switch
S 804	0028-813-0-00 or 0028-840-0-00	Tact Switch Tact Switch
S 805	0028-813-0-00 or 0028-840-0-00	Tact Switch Tact Switch
S 806	0028-813-0-00 or 0028-840-0-00	Tact Switch Tact Switch
S 807	0028-813-0-00 or 0028-840-0-00	Tact Switch Tact Switch
S 900	1465-590-0-00	Leaf Switch
<b>VARIABLE RESISTORS</b>		
VR 1	0031-837-1-03 or 0031-818-1-03 or 0031-835-1-03	SF Volume Control 10k ohm
VR 130	0031-348-1-03	Slide Potentiometer
VR 230	0031-348-1-03	Slide Potentiometer
VR 301	0031-835-5-02 or 0031-837-5-02	SF Volume Control 5k ohm
VR 501	0031-834-2-03	SF Volume Control 20k ohm
VR 502	0031-834-2-03	SF Volume Control 20k ohm
VR 503	0031-834-2-03	SF Volume Control 20k ohm
VR 504	0031-834-2-02	SF Volume Control 2k ohm
VR 505	0031-834-2-03	SF Volume Control 20k ohm
<b>IFT's and TRANSFORMERS</b>		
T 1	0012-181-0-00	FM IFT
T 2	0012-317-0-00	AM IFT- 7
T 301	0015-062-0-00	Osc Transformer
△ PT 301	0019-429-0-00	Power Trans. [for E ]
△	0019-428-0-00	Power Trans. [for E (BS)]
△	0019-905-0-00	Power Trans. [for W, W (UN) , W (AU)]

SYMBOL No.	PART No.	DESCRIPTION
△	0019-626-0-00	Power Trans. [for H, HC]
TRIMMER		
TC4	0030-057-0-40 or 0030-057-0-00 0030-058-0-40	Trimmer Capacitor [for E, E (BS)] Trimmer Capacitor
TC6	or 0030-058-0-00 0030-057-0-40 or 0030-057-0-00 0030-058-0-40 or 0030-058-0-00	[for W, W (UN), W (AU)] Trimmer Capacitor [for E, E (BS)] Trimmer Capacitor [for W, W (UN), W (AU)]
VARIABLE CAPACITOR		
VC1	0030-123-0-00 or 0030-135-0-00 0030-133-0-00 or 0030-136-0-00	335-20P [for E,E (BS), W,W (UN), W (AU)] 160-20P [for H, HC]
OTHERS		
△ IP 301	0045-802-0-05	ICP-NO 5
△ IP 302	0045-802-0-75	ICP-N75 [for H, HC]
LC 501	0040-533-0-00	LCD Panel E- 5416-1
CN301	0034-740-0-04	Connector Pin 4 pin
CN302	0034-750-0-04	Connector Pin 4 pin
CN303	0034-740-0-10	Connector Pin 10 pin
CN304	0034-740-0-07	Connector Pin 7 pin
CN305	0034-740-0-02	Connector Pin 2 pin
CN306	0034-740-0-04	Connector Pin 4 pin
CN307	0034-626-0-06	Connector 6 pin
CN308	0034-740-0-04	Connector Pin 4 pin
CN500	0034-751-0-08	Connector Pin 8 pin
CN501	0034-751-0-08	Connector Pin 8 pin
CN502	0034-750-0-06	Connector Pin 6 pin
CN503	0034-750-0-02	Connector Pin 2 pin
FC 545	1486-545-0-00	Flat Cable 7 pin
JW 301	1488-534-0-00	Flat Cable 3 pin
JW 302	1488-535-0-00	Flat Cable 6 pin
ACCESSORIES		
△	0032-011-0-00	Conversion Plug [for W, W (UN)]
△	0047-232-0-50	AC Cord with Plug [for E, W (UN), W (AU)]
△	0047-412-0-00	AC Cord [for E (BS)]
△	0047-295-0-00	AC Cord with Plug [for W]
△	0047-164-0-40	AC Cord with Plug [for H, HC]
	1499-910-0-01	Gift Box [for E, E (BS)]
	1499-910-0-03	Gift Box [for W, W (UN), W (AU)]
	1499-910-0-02	Gift Box [for H, HC]
	1499-920-0-01	Instruction Booklet [for E]
	1499-920-0-02	Instruction Booklet [for E (BS)]
	1499-920-0-04	Instruction Booklet [for W, W (UN), W (AU)]
	1499-920-0-03	Instruction Booklet [for H, HC]

SYMBOL No.	PART No.	DESCRIPTION
MECHANISM PARTS LIST		
1	0021-159-0-01	Erase Head
2	0021-443-0-00	R/P Head 2T
3	0022-324-0-00	Motor MMI- 6H9LWSK
4	0028-508-0-00	Leaf Switch LSA-1115RD
5	0056-207-0-00	Belt
6	0056-211-0-00	Belt
7	0062-485-0-00	Rubber Bushing
8	0062-664-0-00	Felt
9	0065-360-0-00	Lead Wire Clamper
10	0690-300-0-00	Pinch Roller
11	0690-408-0-00	Compression Spring
12	1222-300-0-00	Support Screw
13	1486-106-0-00	Head Base
14	1488-110-0-00	Motor Supporter
15	1486-118-0-00	Flywheel
16	1486-130-0-00	Record Lever
17	1486-131-0-00	Play Lever
18	1486-132-0-00	FF Lever
19	1486-133-0-00	REW Lever
20	1486-134-0-00	Stop Lever
21	1486-135-1-00	Pause Lever
22	1486-136-0-00	Lock Plate
23	1486-137-0-00	Switch Plate
24	1486-138-0-00	Reverse Cue Lever
25	1486-139-0-00	Anti-Rec Lever
26	1486-140-0-00	Button Supporter
27	1486-180-0-00	Push Spring
28		Not Used
29	1486-201-0-00	(F) Reel Shaft
30	1486-203-0-00	Capstan Shaft
31	1486-204-0-00	Cam Gear Shaft
32	1486-205-0-00	Pinch Roller Shaft
33	1486-206-0-00	Switch Shaft
34	1486-250-0-00	Mechanism Chassis
35	1486-254-0-00	Clutch Set A
36	1486-258-0-00	Reel Base R
37	1486-259-0-00	Clutch Set B
38	1486-265-0-00	Cam Gear
39	1486-266-0-00	Cam Gear Lever
40	1486-267-0-00	Idler Gear
41	1486-268-0-00	Friction Lever
42	1486-269-0-00	Auto Stop Lever
43	1486-271-0-00	Pinch Roller Base
44	1486-272-0-00	Safety Lever
45	1486-273-0-00	Eject Lever
46	1486-274-0-00	Head Support
47	1486-275-0-00	Erase Head Supporter
48	1486-276-0-00	F/W Pulley
49	1486-277-0-00	Button Base
50	1488-202-0-00	Motor Pulley
51	1486-411-0-00	Compression Spring
52	1486-413-1-00	Compression Spring
53	1486-415-1-00	Compression Spring
54	1486-417-0-00	Extension Spring
55	1486-418-0-00	Extension Spring
56	1486-419-0-00	Extension Spring
57	1486-420-0-00	Extension Spring
58	1486-421-0-00	Extension Spring
59	1486-422-0-00	Extension Spring
60	1486-424-0-00	Spiral Spring
61	1486-425-0-00	Spiral Spring
62	1486-426-0-00	Spiral Spring
63	1486-427-0-00	Spiral Spring
64	1486-428-0-00	Spiral Spring
65	1486-429-0-00	Spiral Spring
66	1486-430-0-00	Spiral Spring
67	1486-431-0-00	Spiral Spring
68	1486-432-0-00	Spiral Spring
69	1486-433-0-00	Spiral Spring
70		Not Used

SYMBOL No.	PART No.	DESCRIPTION
71	1488-531-0-00	Wire Connector 4 pin
72	1488-532-0-00	Wire Connector 4 pin
73	1486-860-0-01	Push Button
74	1488-210-1-00	Oilless Metal
75	0974-755-4-01	Sei-1 Screw P 2.0 x 4.0-SN
76	0974-755-5-01	Sei-1 Screw P 2.0 x 5.0-SN
77	0975-255-7-05	Sei-1N Screw P 2.0 x 7.0-SK
78	0977-220-0-65	DT Screw P 2 x 6-SK
79	0977-330-1-25	DT Screw P 3 x 12-SK
80	0977-955-6-01	Sei-1 Screw TP 2.0 x 6.0-A
81	0979-901-5-00	Screw
82	0986-400-3-00	Washer WPC 1.6 x 3.4 x 0.4
83	0987-405-0-00	Washer WP2.1 x 3.2 x 0.5
84	1488-536-0-00	Lug Washer W/Wire
85	1488-533-0-00	Wire Connector 10 pin
86	1488-400-0-00	Extension Spring
87	1488-277-0-00	Mount Lever
88	1488-276-0-00	F/W Pulley
89	1488-201-0-00	Coller B
90	1488-200-0-00	Coller A
91	1488-141-0-00	Conti Lever
92	1237-405-0-00	Compression Spring
93	1237-284-0-00	Pause Cap
94	1237-283-0-00	Pause Cam
95	0065-321-0-00	Lead Wire Clamper
96	0028-507-0-00	Leaf Switch LSA-1115R 3
97	0021-837-0-00	Play Head 2T
98		
to	Not Used	
100		
101	1499-002-0-01	Amplifier PCB Unit [for E, E (BS)]
	1499-008-0-01	Amplifier PCB Unit [for W, W (UN), W (AU)]
	1499-006-0-01	Amplifier PCB Unit [for H, HC]
102	1499-030-0-00	Volume PCB Unit [for E, E (BS)]
	1499-031-0-00	Volume PCB Unit [for W, W (UN), W (AU)]
	1499-032-0-00	Volume PCB Unit [for H, HC]
103	1499-033-0-00	Jack PCB Unit [for E, E (BS)]
	1499-034-0-00	Jack PCB Unit [for W, W (UN), W (AU)]
	1499-035-0-00	Jack PCB Unit [for H, HC]
104	1486-012-0-00	CD PCB Unit
105	1486-013-0-00	CD Control PCB Unit
106	1485-015-0-00	Tuner PCB Unit [for E]
	1485-017-0-00	Tuner PCB Unit [for E (BS)]
	1485-011-0-00	Tuner PCB Unit [for W, W (UN), W (AU)]
	1486-021-0-00	Tuner PCB Unit [for H, HC]
107	1485-036-0-00	LED PCB Unit [for E,E (BS), W,W (UN), W (AU)]
	1486-036-0-00	LED PCB Unit [for H, HC]
108	1488-040-0-01	Cassette Mechanism Unit
109	1499-051-0-01	CD Mechanism Chassis Unit
110	1499-080-0-01	Front Cabinet Unit
111	1488-090-0-02	Rear Cabinet Unit [for E, E (BS), H, HC]
	1499-090-0-01	Rear Cabinet Unit [for W, W (UN), W (AU)]
112		
to	Not Used	
117		
118	1499-852-0-00	Voltage Caution Label [for W, W (UN), W (AU)]
119	0074-154-0-00	Warning Label [for E,E (BS), W,W (UN), W (AU)]
△120	1484-850-0-00	Fuse Caution Label [for H, HC]
△121	0045-017-0-41	Fuse, T. 1.6A/250V
	or 0045-017-0-40	[for E,E (BS), W,W (UN), W (AU)]

SYMBOL No.	PART No.	DESCRIPTION
122	0064-631-0-00	Bar Lock Cable Tie
123	0065-319-0-00	Lead Wire Clamper
124	0074-193-0-01	Caution Label [for E,E (BS), W,W (UN), W (AU)]
	0074-195-0-00	Danger Label [for H, HC]
125	1236-850-0-75	Rating Label
126	1486-286-0-00	Select Switch Arm
127		Not Used
128	1486-807-0-01	Battery Cover
129	1486-813-0-12	Dial Window [for E, E (BS)]
	1486-813-0-13	Dial Window [for W, W (UN), W (AU)]
	1486-813-0-11	Dial Window [for H, HC]
130	1486-814-0-04	Top Panel L
131	1486-815-0-14	Top Panel R [for E, E (BS)]
	1486-815-0-15	Top Panel R [for W, W (UN), W (AU)]
	1486-815-0-13	Top Panel R [for H, HC]
132	1486-866-0-01	Switch Knob
133	1486-867-0-01	Select Knob
134	1486-870-0-01	Volume Knob
135	0972-830-1-05	PT Screw PF 3 x 10-SK
136	0972-830-1-65	PT Screw PF 3 x 16-SK
137	0972-930-1-23	PT Screw P 3 x 12-SBK
138	0972-930-1-65	PT Screw P 3 x 16-SK
139	0976-030-5-03	Screw TP 3 x 50-SBK-A
140	0972-930-1-01	PT Screw P 3 x 10-SN
141	0972-920-0-65	PT Screw P 2 x 6-SK
142		Not Used
143	0977-220-0-35	DT Screw P 2 x 3-SK
144		Not Used
145		Not Used
146		Not Used
147	1486-889-0-00	Double Face A
148	1486-186-0-00	Record Switch Spring
149	1486-282-0-00	Tuner Chassis
150	1486-284-0-00	Band Switch Arm
151	1486-861-0-01	Pointer
152		Not Used
153	1488-139-0-00	Record Switch Lever
154	0972-930-2-55	PT Screw P 3 x 25-SK
155	0987-001-0-00	Washer W3.1 x 0.8 x 0.5
156		
to	Not Used	
200		
201	0045-507-0-00	Fuse Holder
202	1499-500-0-91	Amp PCB [for E, E (BS)]
	1499-501-0-91	Amp PCB [for W, W (UN), W (AU)]
	1499-502-0-91	Amp PCB [for H, HC]
203	1488-550-0-00	Heat Sink
204	0977-230-0-65	DT Screw P 3 x 6-SK
205	1499-551-0-00	Instruction Sheet [for H, HC]
206		
to	Not Used	
210		
211	1499-500-0-92	Volume PCB [for E, E (BS)]
	1499-501-0-92	Volume PCB [for W, W (UN), W (AU)]
	1499-502-0-92	Volume PCB [for H, HC]
212		
to	Not Used	
220		
221	1499-500-0-93	Jack PCB [for E, E (BS)]
	1499-501-0-93	Jack PCB [for W, W (UN), W (AU)]
	1499-502-0-93	Jack PCB [for H, HC]
222		
to	Not Used	
300		



SYMBOL No.	PART No.	DESCRIPTION
301	0034-476-0-00	Check Pin
302	1486-283-0-00	LCD Holder
303	1486-510-0-91	CD PCB
304	1486-574-0-00	Wire Connector 7 pin
305	1486-886-0-00	LCD Sheet
306	Not Used	
310		
311	1486-510-0-92	CD Control PCB
312	Not Used	
400		
401	0034-458-0-00	Pin Terminal
402	1486-521-0-91	Tuner PCB [for E,E (BS), W,W (UN), W (AU)]
	1486-520-0-91	Tuner PCB [for H, HC]
403	1485-530-0-00	PCB Joiner
404	1486-534-0-00	Wire Connector, 4 pin
405	Not Used	
410		
411	1486-521-0-92	LED PCB [for E,E (BS), W,W (UN), W (AU)]
	1486-520-0-92	LED PCB [for H, HC]
412	Not Used	
420		
421	1220-264-1-00	Varicon Gear
422	0971-826-0-61	Screw P 2.6 x 6-SN-S
423	Not Used	
500		
501	0036-595-0-00	Leaf Switch
502	0065-319-0-00	Lead Wire Clamper
503	0860-880-0-00	Gear
504	0860-881-0-00	gear Holder
505	1467-703-0-00	Compression Spring A
506	1467-704-0-00	Compression Spring B
507	1467-873-0-00	CD Cushion
508	1471-166-1-00	Chuck Plate A
509	1471-169-0-00	Switch Holder
510	1471-280-0-00	Magnet Ring
511	1474-162-1-00	Pick-up Cover
512	1474-201-1-00	Disc Pin
513	1474-312-0-00	Clamper D
514	1474-879-0-00	PVC Sheet
515	1486-811-0-03	CD Case
516	1486-812-0-03	CD Window
517	1486-150-0-00	CD Plate
518	1486-281-0-01	CD Chassis
519	1486-288-0-00	Magnet Holder
520	1486-404-0-00	Spiral Spring
521	1486-540-0-00	Wire Connector 8 pin
522	1486-541-0-00	Wire Connector 8 pin
523	1486-542-0-00	Wire Connector 6 pin
524	1486-543-0-00	Wire Connector 2 pin
525	1486-548-0-00	Lug Washer W/Wire, L 150
526	1486-710-0-00	CD Spring
527	1486-880-0-00	Himelon
528	1516-311-0-01	NC Latch
529	0971-020-0-81	Screw P 2 x 8-SN
530	0972-830-1-05	PT Screw PF 3 x 10-SK
531	0974-755-4-01	Sei-1 Screw P 2.0 x 4.0-SN
532	0972-930-1-61	PT Screw P 3 x 16-SN
533	0976-820-0-85	Screw TL 2 x 8-SK-B
534	0977-955-6-00	Sei-1 Screw TP 2.0 x 6.0-A
535	Not Used	
536	Not Used	
537	0972-930-1-01	PT Screw P 3 x 10-SN
538	0979-908-7-00	Screw
539	1486-888-0-00	Double Face B

SYMBOL No.	PART No.	DESCRIPTION
540	Not Used	
549		
550	1499-050-0-01	CD Mechaanism Unit
551	0020-007-0-40	Laser Pick-up KSS-210B
552	0022-321-0-00	Motor RF 310TA-11400 38MM
553	0022-322-0-00	Motor RF 310TA-11400 30MM
554	0034-786-0-06	Connector Pin 6 pin
555	1465-100-2-00	Mechanism Chassis Set
556	1465-200-0-00	Motor Gear
557	1465-201-0-00	Gear A
558	1465-202-0-00	Gear B
559	Not Used	
560	1465-204-0-00	Disc Guide
561	1465-209-1-01	Turn Table Set
562	1465-221-0-00	Shaft
563	1465-250-1-00	Slide Base
564	1465-400-0-00	Compression Spring
565	Not Used	
566	1473-505-0-00	Motor PCB M
567	0971-020-0-31	Screw P 2 x 3-SN
568	0972-720-0-65	ST Screw B 2 x 6-SK
569	Not Used	
570	0986-400-7-00	Washer WPC 1.7 x 0.4 x 2.5
571	Not Used	
600		
601	0023-187-0-00	Speaker 100-3
602	0065-319-0-00	Lead Wire Clamper
603	0860-880-0-00	Gear
604	0860-881-0-00	Gear Holder
605	1486-400-0-00	Spiral Spring
606	1488-530-0-00	Wire Connector 4 pin
607	1499-808-0-01	Up Case L Set
608	1499-809-0-01	Up Case R Set
609	1299-800-0-01	Case Ass'y
610	1488-820-0-02	Display Sheet
611	Not Used	
612	0972-830-1-05	PT Screw PF 3 x 10-SK
613	0972-930-1-61	PT Screw P 3 x 16-SN
614	Not Used	
650		
651	0046-088-1-42 or 0046-088-0-41	Rod Antenna
652	1470-890-0-00	Rubber Foot
653	1471-414-0-00	Battery Terminal
654	1488-142-0-00	Record Switch Arm
655	1486-405-0-00	Battery Terminal
656	1486-406-0-00	Spiral Spring
657	1486-409-0-00	Battery Terminal
658	1486-410-0-00	Antenna Spring
659	1486-532-0-00	Wire Connector 2 pin
660	1486-803-0-01	Case B [for E, E (BS), H, HC]
	1486-806-0-01	Case B [for W, W (UN), W (AU)]
661	1486-872-0-01	Handle
662	1486-873-0-01	Handle Cover
663	0971-026-0-83	Screw P 2.6 x 8-SBK
664	0972-830-1-05	PT Screw PF 3 x 10-SK
665	0976-820-0-83	Screw TL 2 x 8-SBK-B

**SAFETY PRECAUTIONS**

The following precautions should be observed when servicing

1. Do not touch parts of the unit with your hands. Use insulated tools when servicing.
2. Do not touch the power supply cord or the power switch.
3. Do not touch the power supply cord or the power switch.
4. Do not touch the power supply cord or the power switch.
5. Do not touch the power supply cord or the power switch.
6. Do not touch the power supply cord or the power switch.
7. Do not touch the power supply cord or the power switch.
8. Do not touch the power supply cord or the power switch.
9. Do not touch the power supply cord or the power switch.
10. Do not touch the power supply cord or the power switch.

**SPECIFICATIONS**

**GENERAL SECTION**



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