

Service Manual

Radio Cassette

Portable Stereo Component System

RX-CS700

Color

(K) Black Type



Area

Country Code	Area	Color
(E)	Continental Europe	
(EB)	Great Kingdom	(K)
(EC)	F.R. Germany/Italy	

RX-CS2 MECHANISM SERIES

■ SPECIFICATIONS

General

Power Requirement:

AC: 220 V, 50 Hz
(For (EB), 240 V, 50 Hz)

Battery: 9 V (556 UMA-1 "D" Size

Batteries)

Power Consumption:

20 W (10 W x 2), PAPER

7 W (3.5 W x 2), PMS (max.)

Speaker:

Woofer: 12 cm PMA Dynamic

Speaker (2.75) x 2

Tweeter: 2 cm Ceramic Speaker

Jacks:

Input:

Output:

Dimensions:

CDLINE IN: 368 mm, 47 kg

EXT. SP: 2.7 ~ 8.0

HEADPHONES: 32Ω, 33.5

Total Size:

520(W) x 190(H) x 170(D) mm

Main Unit:

520(W) x 190(H) x 170(D) mm

Speaker Box:

140(W) x 190(H) x 120(D) mm

Weight: 3.4 kg without batteries

Radio Section:

Radio Frequency Range:

FM: 87.5 ~ 108 MHz
LW: 148.5 ~ 265 KHz

MW: 520 ~ 1610 KHz

SW: 5.9 ~ 18 MHz

Intermediate Frequency:

FM: 10.7 MHz
AM (LW/MW/SW): 450 KHz

FM: 4.5 μV/50 mW output

(~200 Line Sens.)

LW: 142 μV/50 mW output

MW: 128 μV/50 mW output

SW: 5 μV/50 mW output

Sensitivity:

Tape Deck Section:

Frequency Response:

Recording System:

Tape Speed:

Track System:

70 ~ 11,000 Hz

AC bias, Magnet erase

48 cm/s

4-track 2-channel stereo recording

and playback

Design and specifications are subjected to changes without notice.

Panasonic®

Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

SCHEMATIC DIAGRAM

Notes:

1. Sw1-1, Sw1-2:

FM Mode Selector/Beat Proof switch in "FM MONO/I" position.

(M..FM/MONO/I, ST...FM ST/II, ST2...FMST/III).

2. Sw2-1 ~ Sw2-8:

Band Selector switch in "FM" position. (F...FM, L...Lw, M...Mw, S...Sw).

3. Sw3-1 ~ Sw3-6:

Function selector switch in "TAPE/POWER [OFF]" position.

(T...TAPE/POWER [OFF], R...RADIO, L...CD/LINE)

4. Sw4-1 ~ Sw4-4:

Record/Playback selector switch in "PLAYBACK" position.

(P...PLAYBACK, R...RECORD)

AC/DC selector switch in "AC" position.

Motor switch in "OFF" position.

FM MPX VCO Adjustment VR.

5. Sw6:

Graphic equalizer VR (100Hz).

6. Sw8:

Graphic equalizer VR (300Hz).

7. VR1:

Graphic equalizer VR (1k-Hz).

8. VR301-1, VR301-2:

Graphic equalizer VR (3.3k-Hz).

9. VR302-1, VR302-2:

Graphic equalizer VR (10k-Hz).

10. VR303-1, VR303-2:

Volume control VR

11. VR304-1, VR304-2:

Balance control VR

12. VR305-1, VR305-2:

Vol. min...60mA (Radio...FM)
130mA (PLAYBACK)

13. VR306-1, VR306-2:

Vol. max...470mA (Radio...FM)
700mA (PLAYBACK)

14. VR307:

Measurement Instruction

15. Battery current:

Radio: FM 60 dB, 30% Mod.
Tape: 315 Hz, 0 dB

16. DC voltage measurement is taken with electronics voltmeter from negative terminal of battery.

< >...FM (),...AM

No mark...PLAYBACK

Important safety notice.

Components identified by Δ mark have special characteristics important safety.

When replacing any of these components, use only manufacturer's specified parts.

→ ...FM SIGNAL LINE

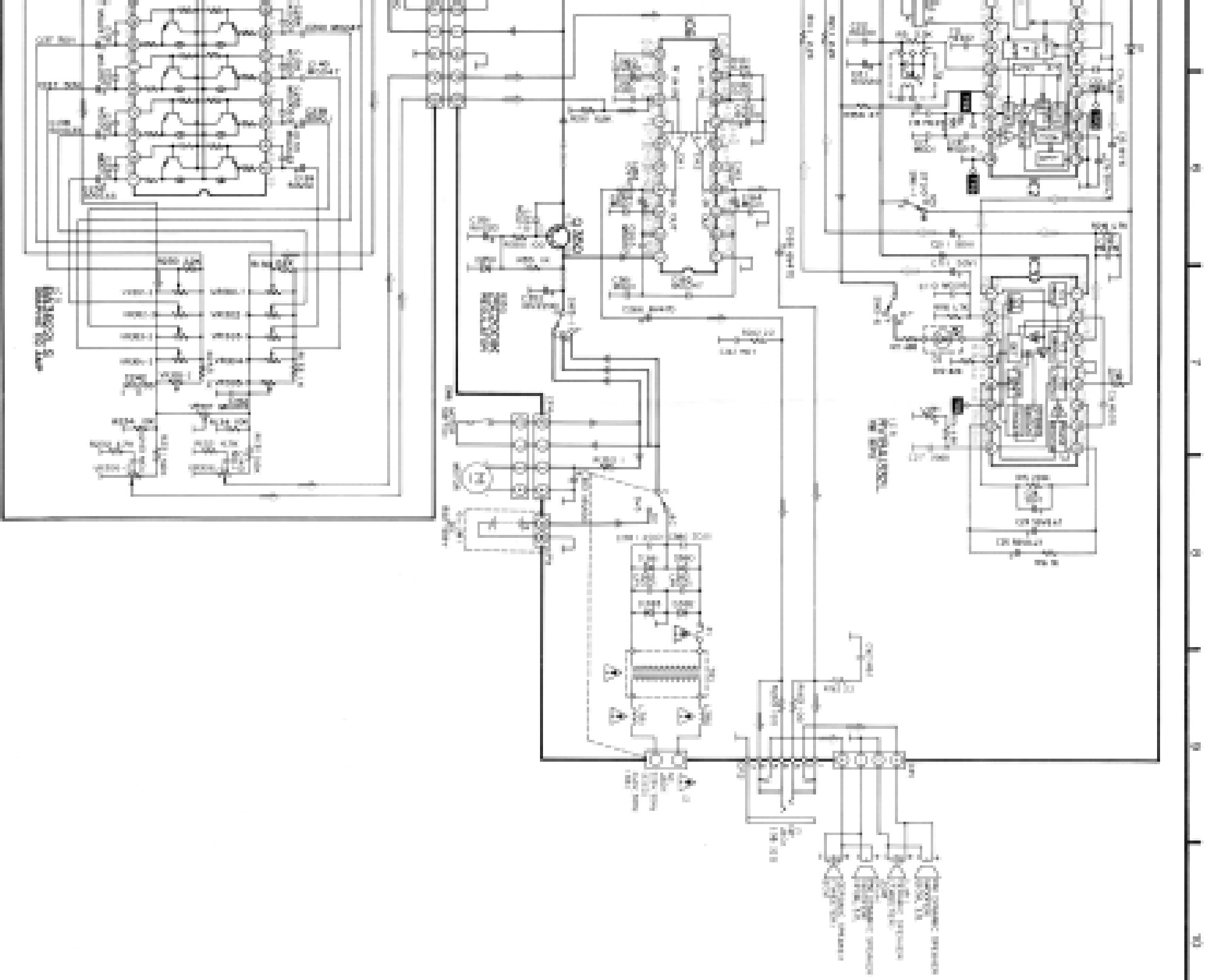
→ ...PLAYBACK SIGNAL LINE

→ ...RECORD SIGNAL LINE

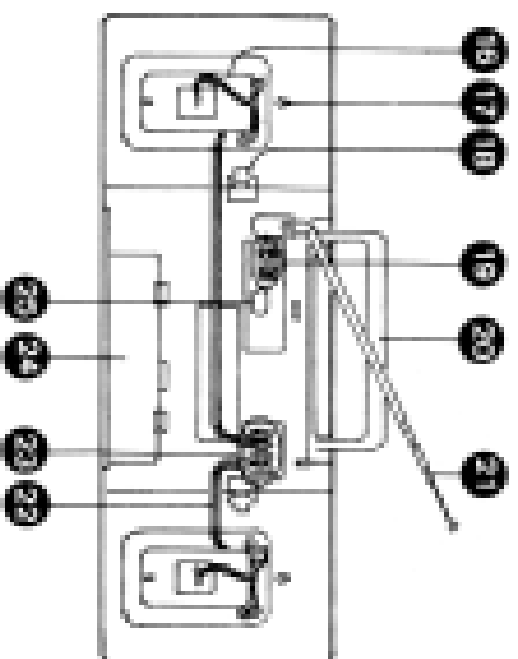
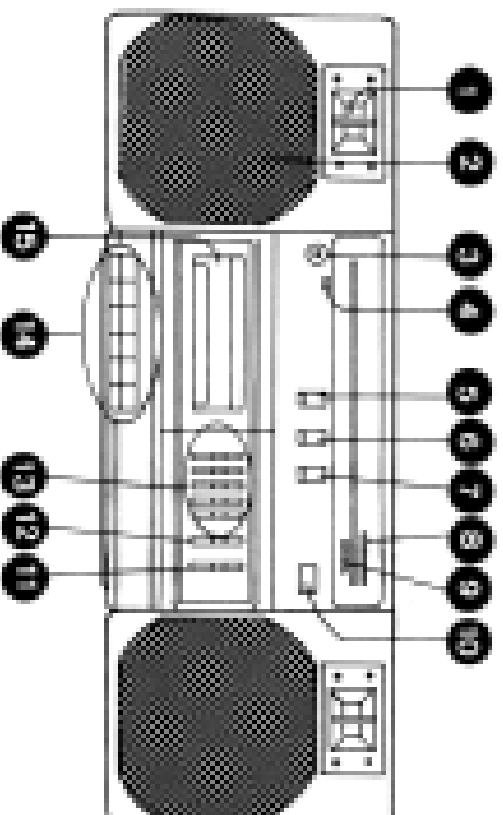
→ ...PLAYBACK/FM SIGNAL LINE

→ ...B LINE

• This schematic diagram may be modified at any time with the development of new technology.



LOCATION OF CONTROLS AND COMPONENTS



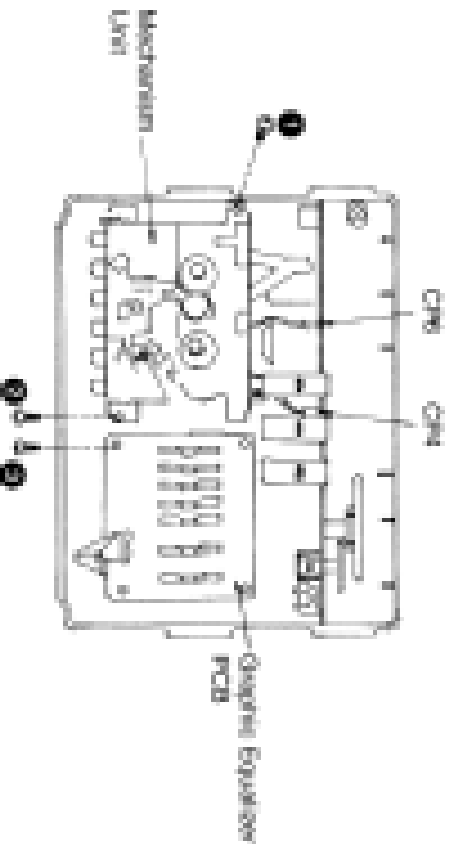
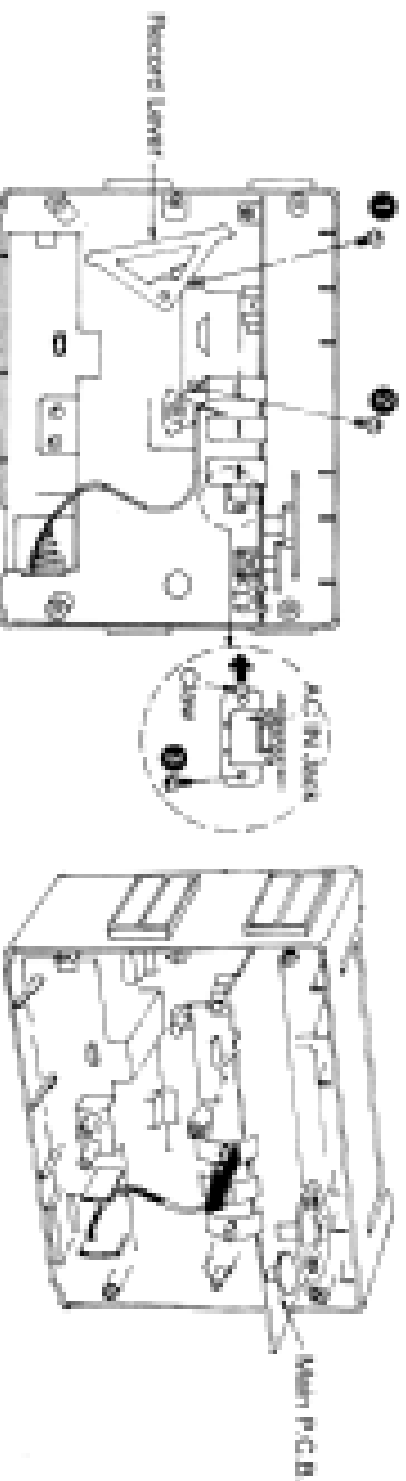
- 1 Speakers (Tweeter) (2 cm)
- 2 Speakers (Woofer) (12 cm, 30)
- 3 Headphones Jack (PHONE) (3.5, 320)
- 4 FM Stereo Indicator (FM STEREO)
- 5 FM Mode Selector/Scan Power Switch (FM MODE/SP)
- 6 Function Selector (SELECTOR)
- 7 Band Selector (BAND)
- 8 Tuning Control (TUNING)
- 9 Fine Tuning Control (FINE TUNING)
- 10 Built-in Microphone (MIC)
- 11 Volume Control (VOLUME)
- 12 Balance Control (BALANCE)
- 13 Graphic Equalizer Controls (GRAPHIC EQUALIZER)

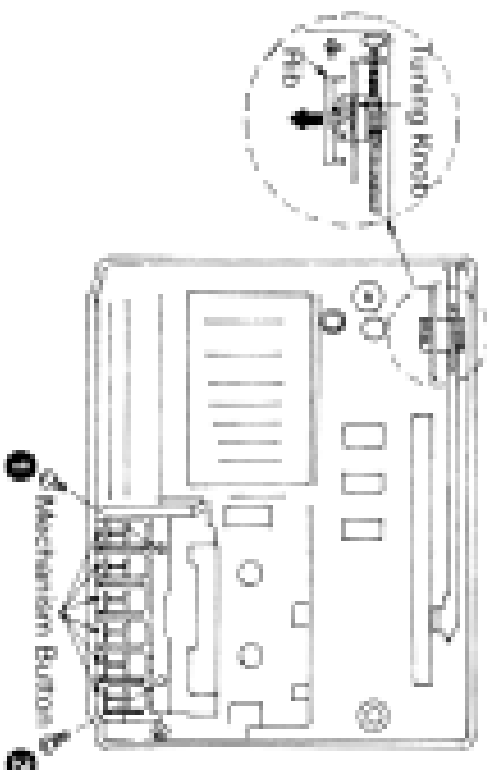
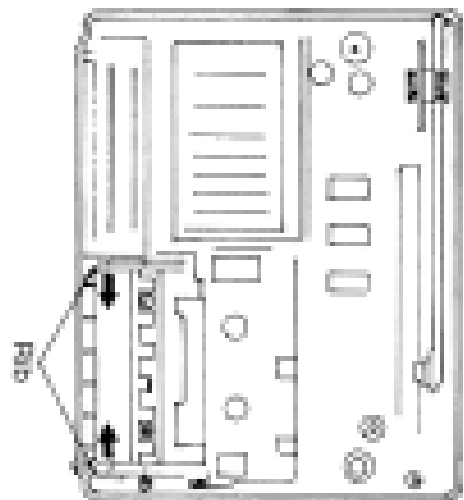
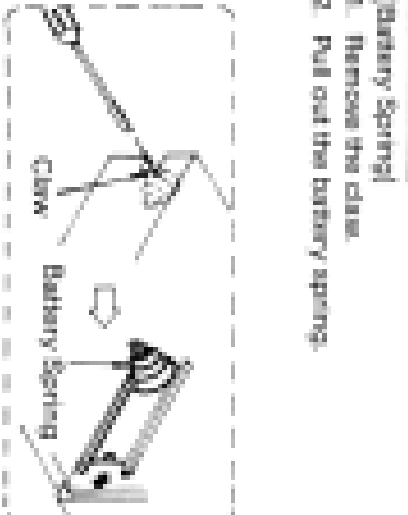
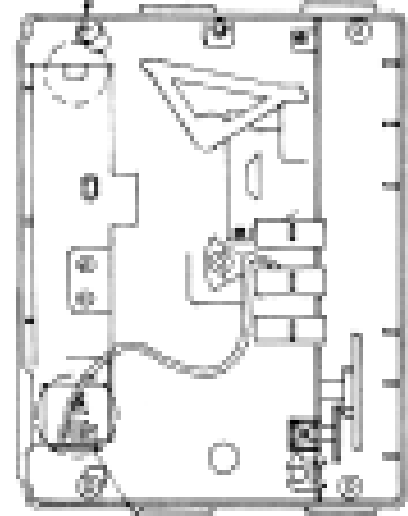
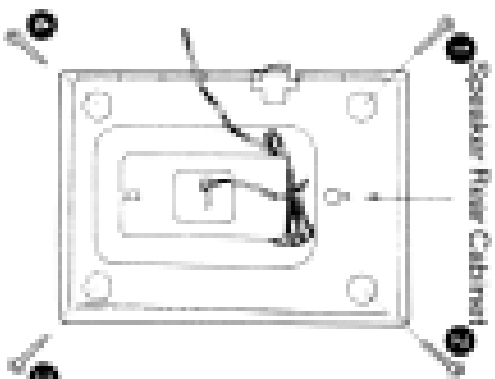
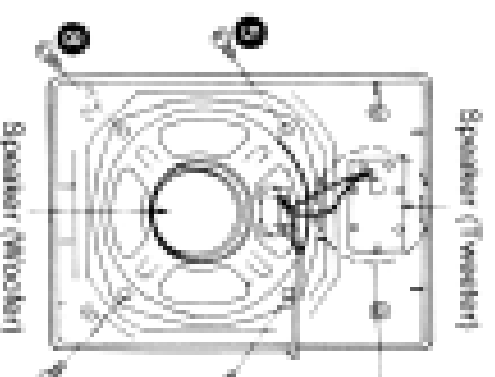
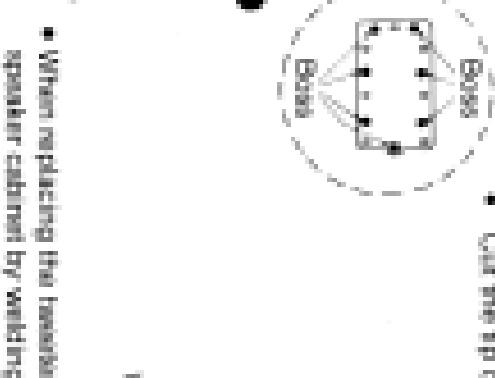
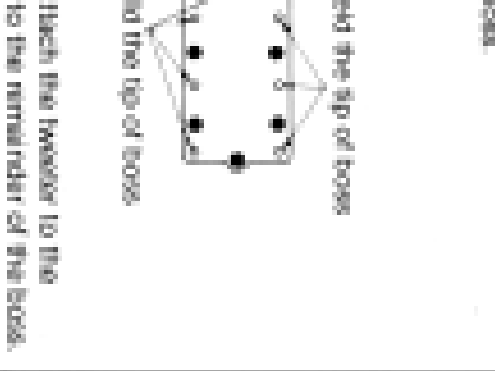
14 Type Operation Buttons

- 15 Records Button (▶ **RECORD**)
- 16 Playback Button (▶ **PLAY**)
- 17 Rewind Button (◀ **REW**)
- 18 Fast Forward Button (▶ **FF**)
- 19 Stop/Eject Button (■ **STOP/EJECT**)
- 20 Pause Button (|| **PAUSE**)

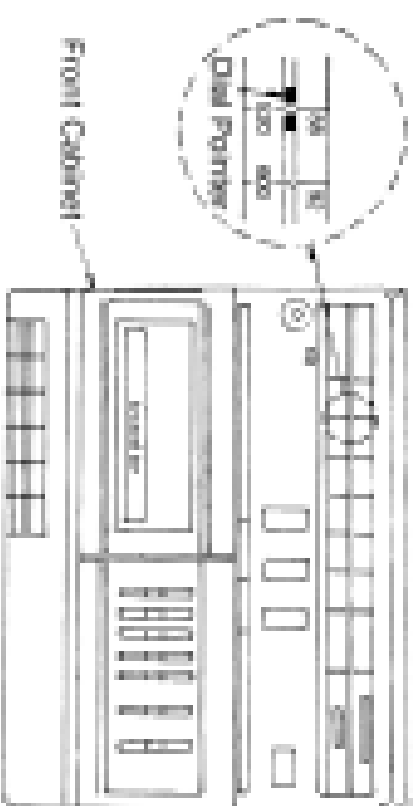
- 21 Cassette Compartment
- 22 Speaker Cable Compartments
- 23 Speaker Wall Mounts
- 24 Speaker Release Levers (RELEASE)
- 25 CD-Line Input Jacks (CD-LINE IN) (200mV, 47kΩ)
- 26 Headset
- 27 Telescopic Antenna
- 28 Speaker Cables
- 29 Speaker Terminals [SPEAKER (IMP 2.2-8Ω)]
- 30 Battery Compartment
- 31 AC Socket (AC IN-)

DISASSEMBLY INSTRUCTIONS

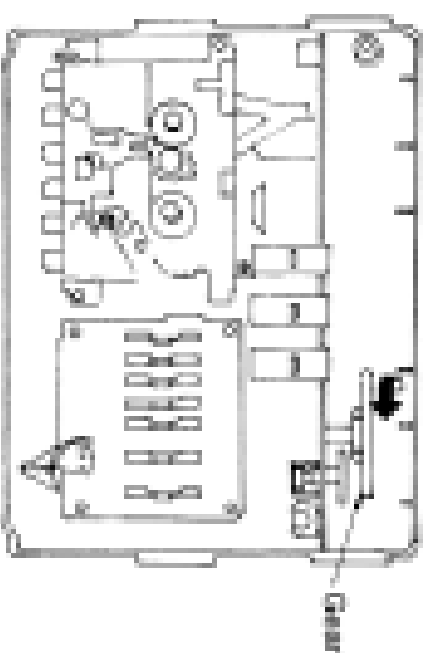
Ref. No. 1	Removal of the Front Cabinet	
Procedure 1	1. Remove the 5 screws (1)–(5). 2. Press the stop/ject button. 3. Remove the front cabinet.	[Removal of Screws] • Use a screwdriver similar to the one in the figure. • If you attach a bushing (part number: RHHT1024) to the tip of the screwdriver as shown in the figure, the screwdriver tip will easily fit in the screw heads and you will be able to remove the screws with ease. BUSHING (part 1024) L = 150 mm (OR LONGER)
Ref. No. 2	Removal of the Mechanism Unit and Graphic Equalizer P.C.B.	
Procedure 1–2	[Mechanism Unit] 1. Remove the 2 screws (1), (2). 2. Remove the 2 connectors (CP4, CP5). [Graphic Equalizer P.C.B.] • Remove the 1 screw (3).	
Ref. No. 3	Removal of the Main P.C.B.	4. Pull out the main P.C.B.
Procedure 1–2–3	1. Remove the second layer. 2. Remove the 3 screws (1)–(3). 3. Remove the disc.	

Ref. No. 4	Removal of the Tuning Knob and Mechanism Button	Ref. No. 5	Removal of the Cassette Compartment
Procedure 1-4	[Tuning Knob] - Remove the rib in the direction of arrow. [Mechanism Button] - Remove the 2 screws (1-2). 	Remove the rib in the direction of arrow. 	
Ref. No. 6	Removal of the Battery P.C.B. and Battery Spring		
Procedure 1-2-6	[Battery Spring] - Remove the claw. - Pull out the battery spring.  [Battery P.C.B.] - Remove the claw - Pull out the battery P.C.B.  Back View Front View		
Ref. No. 7	Removal of the Speaker Rear Cabinet, Speaker (Woofer) and Speaker (Tweeter)		
Procedure 7	[Speaker Rear Cabinet]  [Speaker (Tweeter)]  [Speaker (Woofer)]  [Speaker Rear Cabinet] - Remove the 4 screws (1-2). [Speaker (Woofer)] - Remove the 4 screws (1-2). [Speaker (Tweeter)] - Cut the tip of boss. Use the tip of boss  When replacing the tweeter, attach the tweeter to the speaker cabinet by welding it to the remainder of the boss.		

■ FRONT CABINET ASSEMBLY

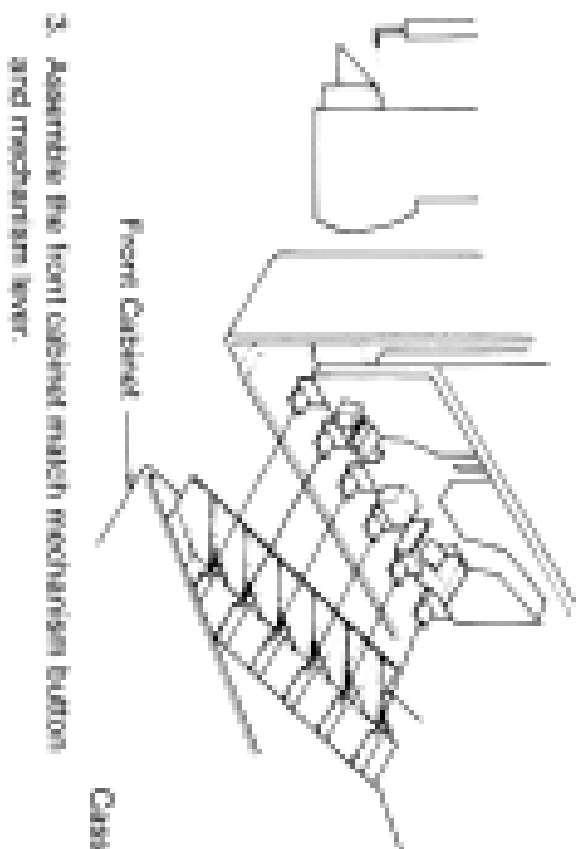


1. Line up the dial pointer in the front cabinet assembly with the "0" point graduation as shown in figure.

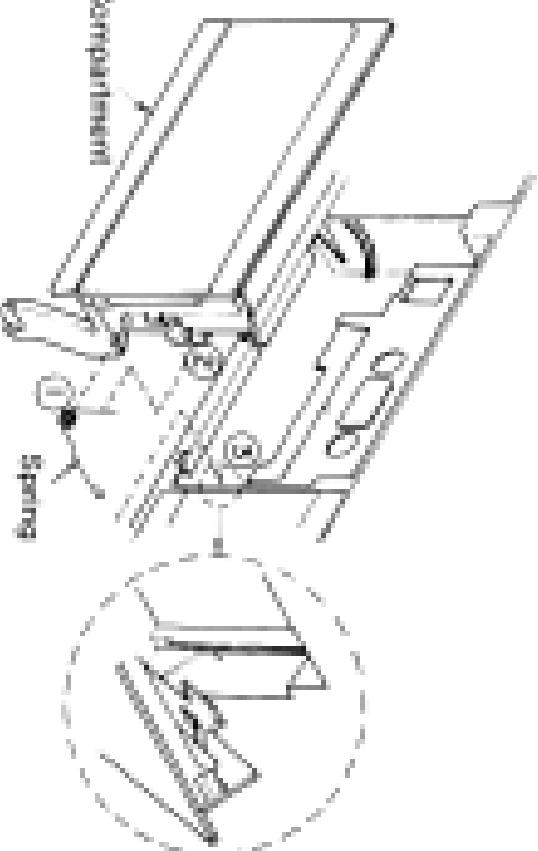


2. Turn the gear on the main P.C.B. all the way in the direction of arrow.

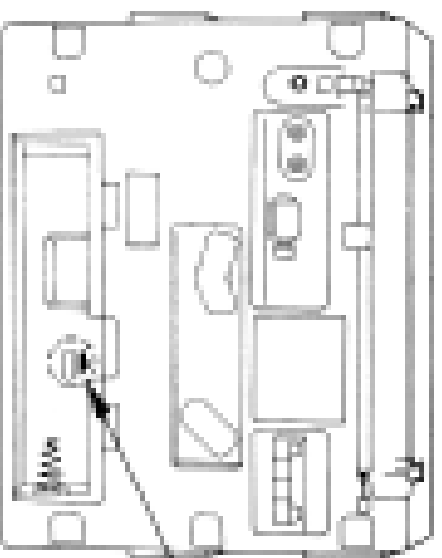
■ CASSETTE COMPARTMENT ASSEMBLY



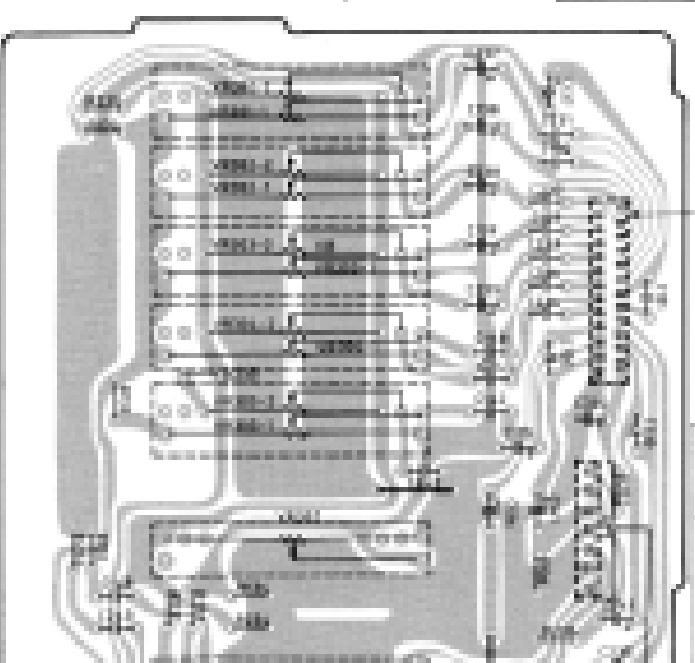
3. Assemble the front cabinet switch mechanism button and mechanism lever.

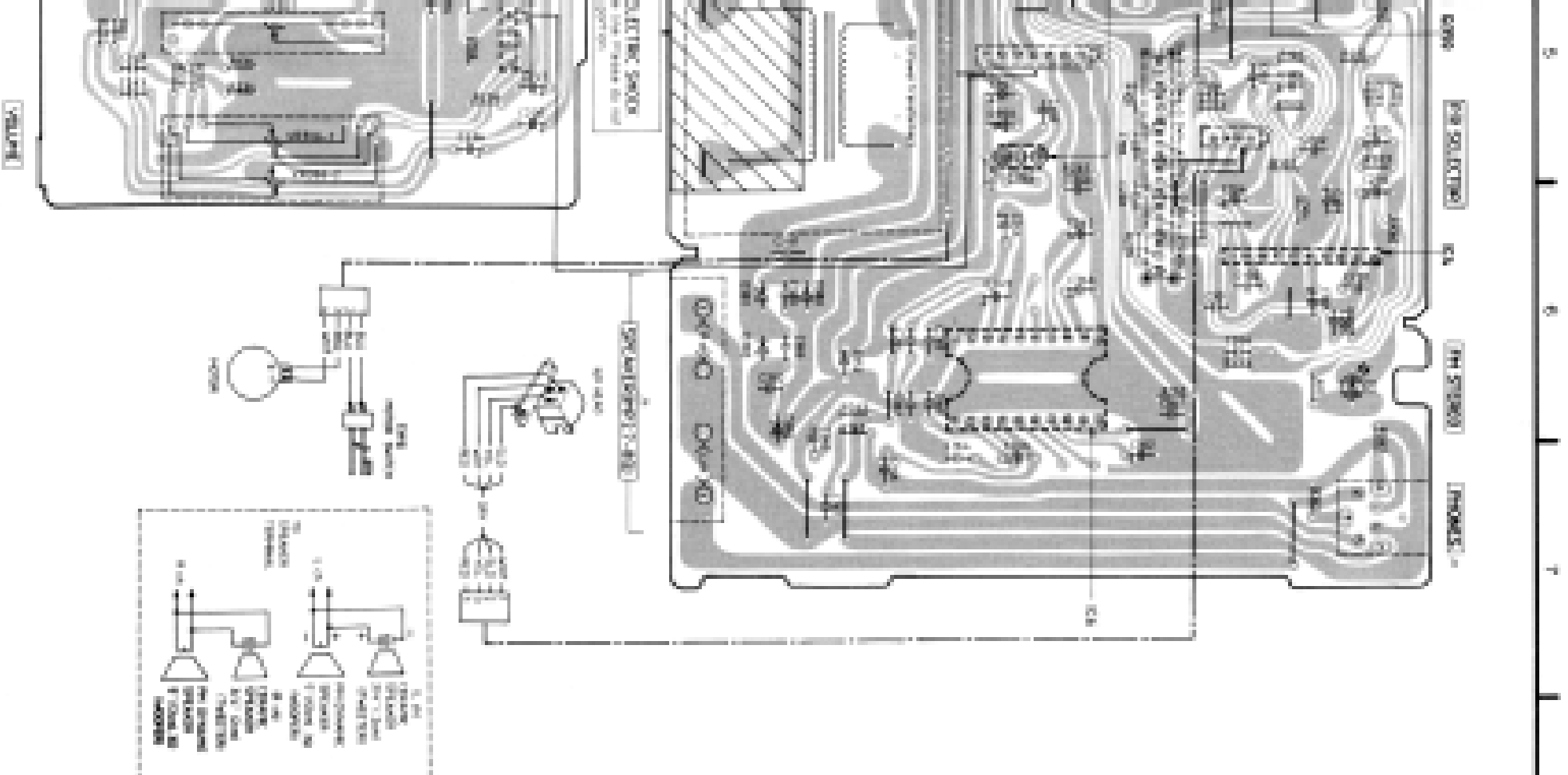


■ WHAT TO DO WHEN THE TAPE IS ENTANGLED



When the tape is caught in the pinch roller, etc., release the tape by turning the pulley on the motor with the screwdriver in the direction of the arrow.





■ TERMINAL GUIDE OF IC's, TRANSISTORS AND DIODES

	PIC18C450-01A 18 Pins
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409	410	411	412	413	

[illegible]

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set function selector to audio.
2. Set volume control to maximum.
3. Set FM mode selector to FM ST.
4. Set band switch to MHz, L/M, SW, or FM.
5. Set fine tuning to center.
6. Set graphic equalizer to center.
7. Set power source voltage to 9V DC.
8. Output of signal generator should be no higher than necessary to obtain an output reading.

■ AM-IF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	REMARKS
CONNECTIONS	FREQUENCY				
Fasten a loop of several turns of wire and induce a signal into the loop ant. of receiver.	400 kHz. 30% Mod. at 400 Hz	Point of non-interference. (on/about 400 kHz)	Headphones Jack (3200)	T2 (A.M. ST)	Adjust for maximum output.

■ LW-11 ALIGNMENT

Position loop of several turns of wire and radiate signal into loop of receiver	136kHz (E/E/B) 150 kHz (E/C)	Tuning capacitor fully closed.	Output meter across voice coil	L2 (LW OSC Coil)	Adjust for maximum output.
-	280kHz	Tuning capacitor fully open.	-	CT9LW OSC (Timmer)	-
-	140kHz	Tune to signal	-	(*1) L3-1 (LW ANT Coil)	Adjust for maximum output. Adjust L3-1 by moving coil bottom along ferrite core.
-	280kHz	-	-	CT9LW ANT (Timmer)	Adjust for maximum output.

[11] Common antenna bodies with wire after connecting segment.

■ WWW-AF ALIGNMENT

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC AC VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
NON-RE ALIGNMENT						
MW	-	511 kHz (B/E/B)	Tuning capacitor fully closed	-	L3 (MW OSC Coil)	Adjust for maximum output.
MW	-	1,639 kHz (E/C)	Tuning capacitor fully open.	-	CT 1-4 (MW OSC Trimmer)	-
MW	-	550 kHz	Tune to signal.	-	(1) L3-2 (MW ANT Coil)	Adjust for maximum output. Adjust L3-2 by moving coil along ferrite core.
MW	-	1,500 kHz	-	-	CT 1-3 (MW ANT Trimmer)	Adjust for maximum output.

■ SW-IF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCORE)	ADJUSTMENT	REMARKS
CONNECTIONS	FREQUENCY				
Connect to test point TP1 through antenna; resistor (100 Ω) Negative side to test point TP2	5.7 MHz	Tuning capacitor fully closed.	Output meter across voice coil.	L ₅ (5W OSC Coil)	Adjust for maximum output.
-	18.8 MHz	Tuning capacitor fully open	-	CT ₈ (5W OSC Trimmer)	-
-	5.0 MHz	Tuning to signal	-	L ₄ (5W ANT Coil)	Adjust for maximum output.

■ FM-IF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	REMARKS
CONNECTIONS	FREQUENCY				
Connect to test point TP5 through ceramic capacitor (1000 pF) Negative side to test point TP3 .	10.7 MHz (SWEEP)	Point of maximum horizontal (30 MHz)	Connect vert. amp. scope to test point TP4 Negative side to test point TP3 .	T ₁ (FM 1 μ)	Adjust for maximum amplitude. (Refer to Fig. 2.)
-	-	-	-	T ₃ (FM 2 μ)	Adjust for maximum amplitude. (Refer to Fig. 2.)

■ FM-RF ALIGNMENT

Connect to test point TP7 through FM dummy antenna. Negative side to test point TP3	86.2 MHz (DEB) 87.5 MHz (ECO)	Variable capacitor fully closed.	Headphones Jack (DC)	L ₂ (FM OSC coil)	(2) Adjust for maximum output.
-	108.2 MHz (DEB) 108.25 MHz (ECO)	Variable capacitor fully open.	(Reference the plug-in adaptor Fig. 4, and then connect the lead wires of the plug to the terminals.)	CT 1-2 (FM OSC Trimmer)	-
-	108 MHz	Tune to signal	-	CT 1-1 (FM ANT Trimmer)	-

(2) These output responses will be present, proper tuning is the carrier frequency.

■ SEPARATION ALIGNMENT

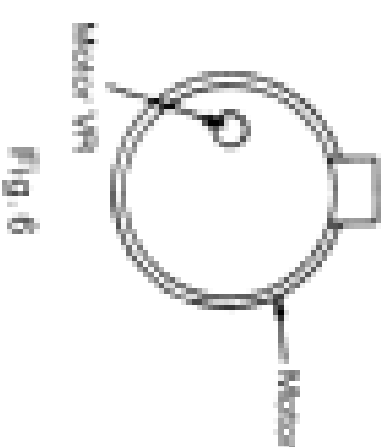
FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION (ELECTRONIC COUNTER)	ADJUSTMENT	SPECIFICATION	REMARKS
86 MHz, 60 dB (DM) Connect to test point TP1 through FM dummy antenna. Negative side to TP3 .	TP3 - (-) TP3 - (+)	V _{BT}	78 MHz	Adjust V _{BT} for 59 MHz $\pm$ 50 Hz reading on frequency counter.

■ HEAD AZIMUTH ALIGNMENT

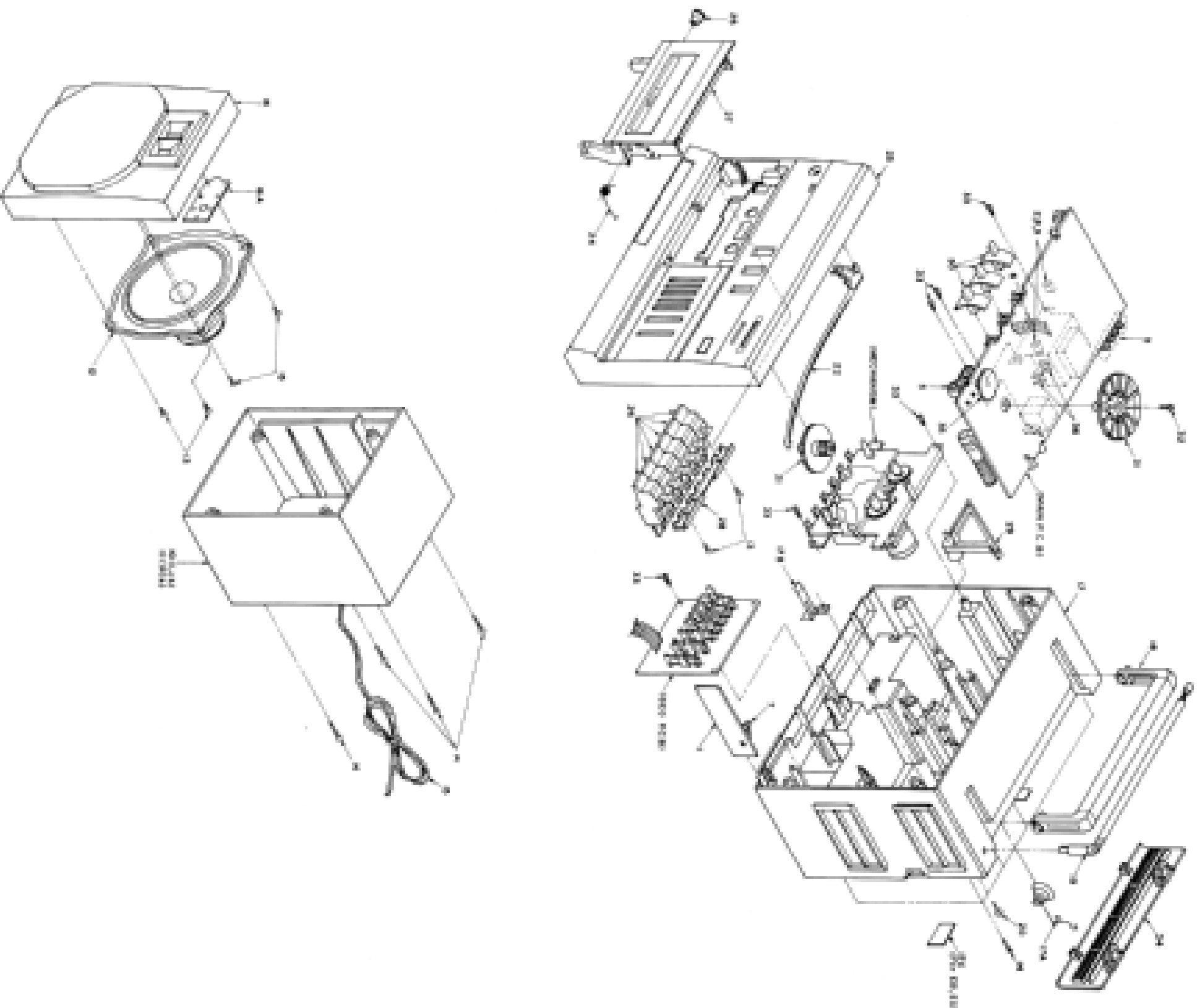
TEST TYPE	EQUIPMENT CONNECTION (ELECTRONIC COUNTER)	ADJUSTMENT	SPECIFICATION	REMARKS
QZCZFM (0 kHz, -50 dB)	Headphones Jack (DC)	Adjust screw (Shown in Fig. 4)	Maximum output	• Playback mode.

1. Payback month.
2. Adjust motor VR, for 2000 L TO Hz, resulting on frequency counter.

- Phases refer to Circuit Board and Wiring Connection Diagram for each point locations.

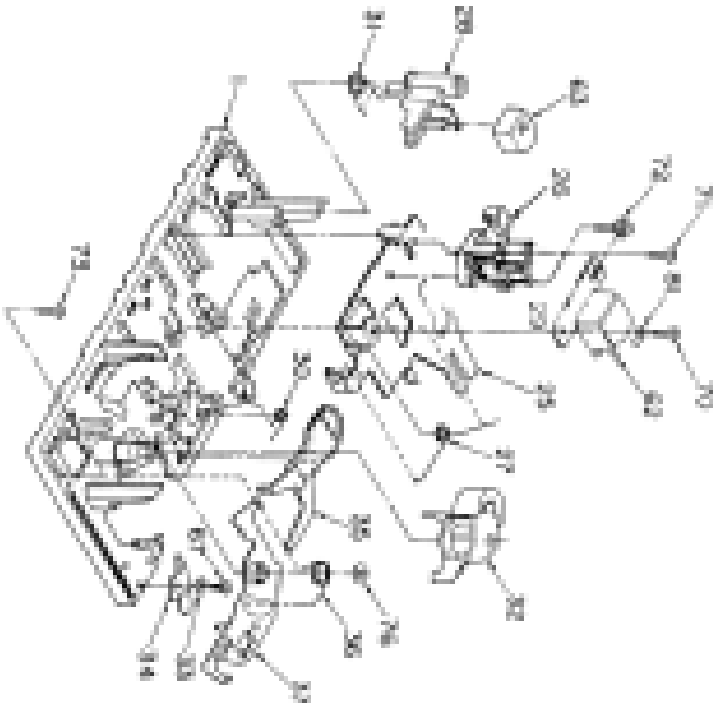


CABINET PARTS LOCATION



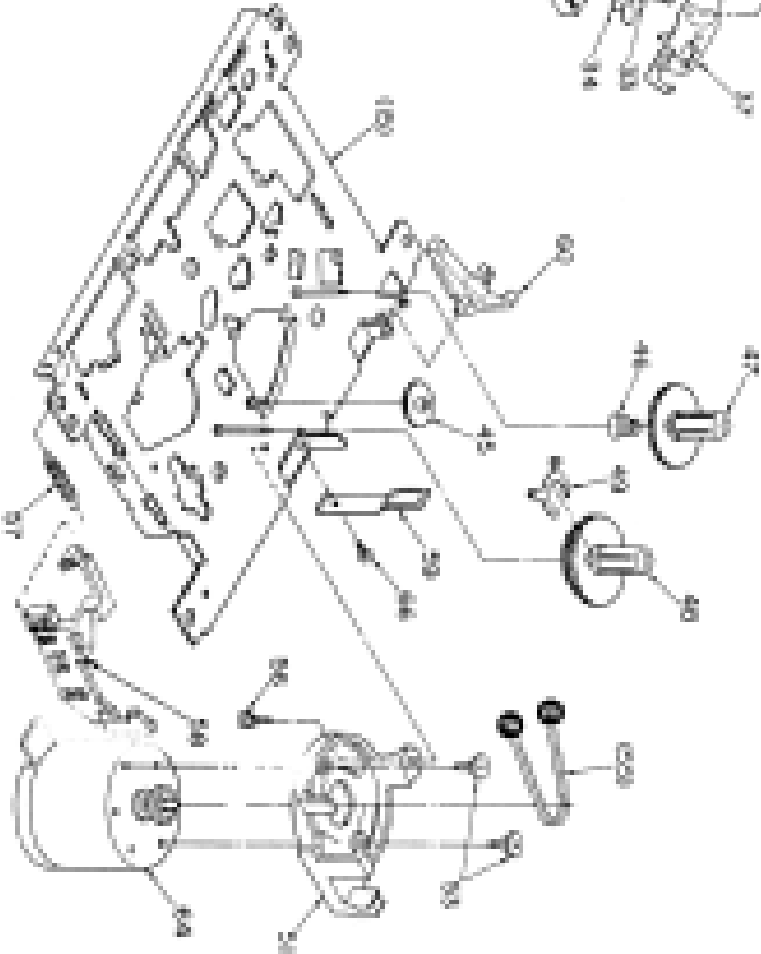
MECHANISM PARTS LOCATION

TOP VIEW



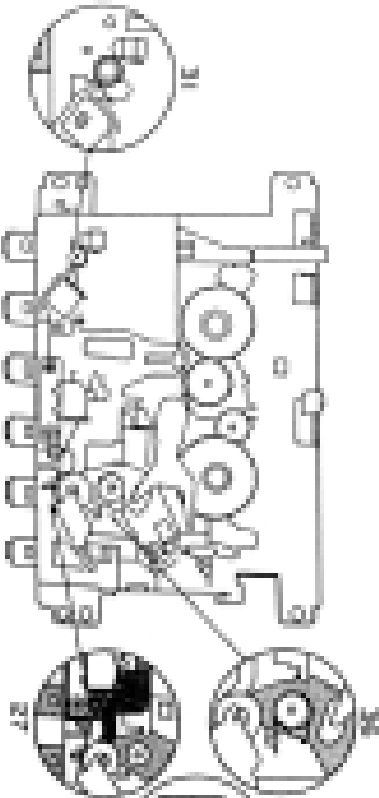
Specifications

Payload torque	28~44 g-cm
Fast Forward torque	50 g-cm or More
Reverse torque	50 g-cm or More
Resistance of position roller	300±50 g
Shock and Vibration	Less than 0.2G (rms)

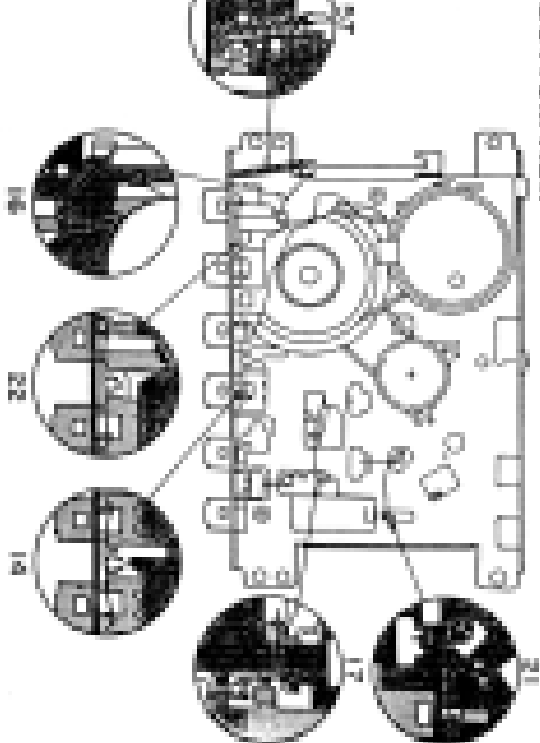


■ SPRING LOCATION

TOP VIEW

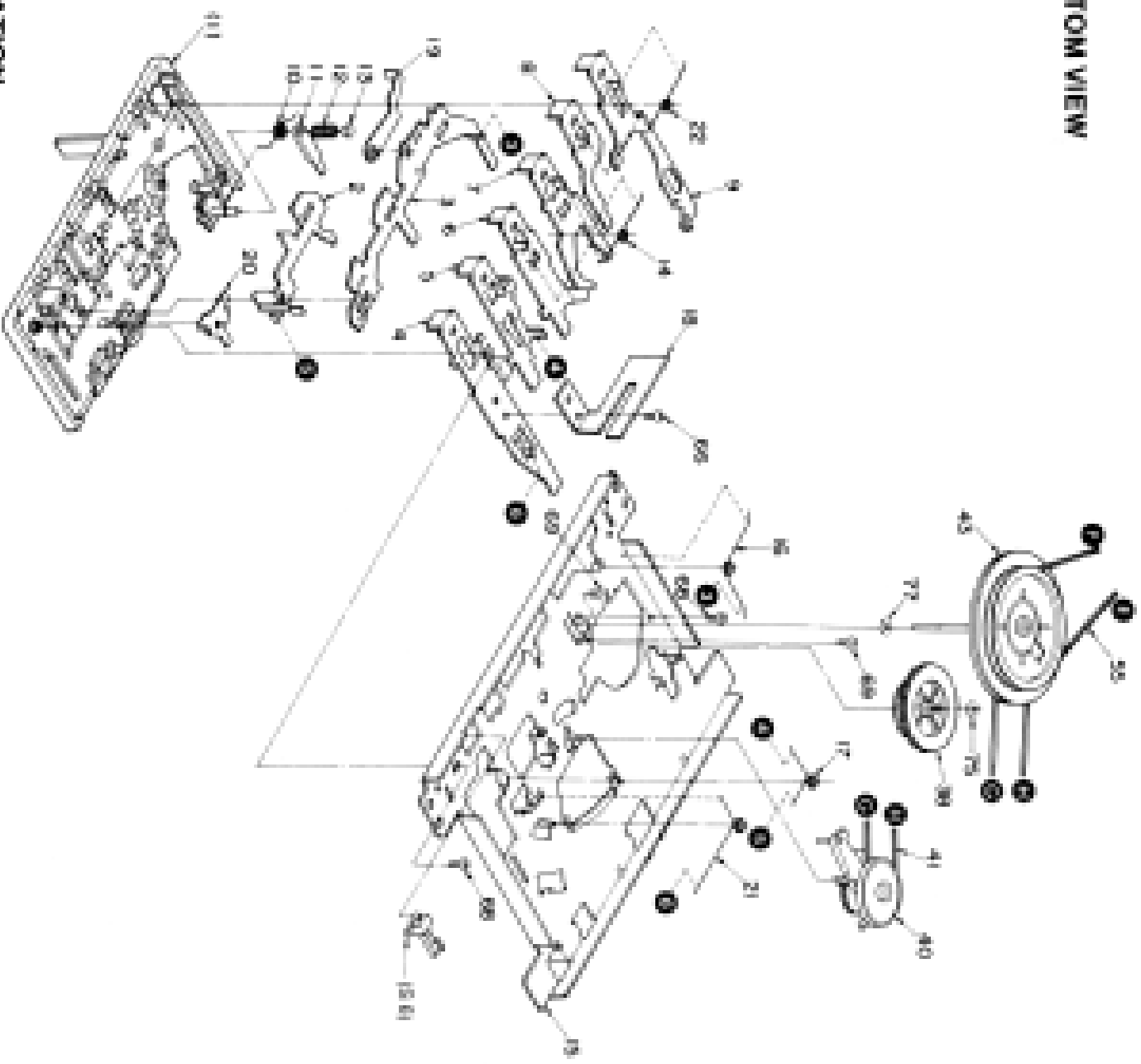


BOTTOM VIEW



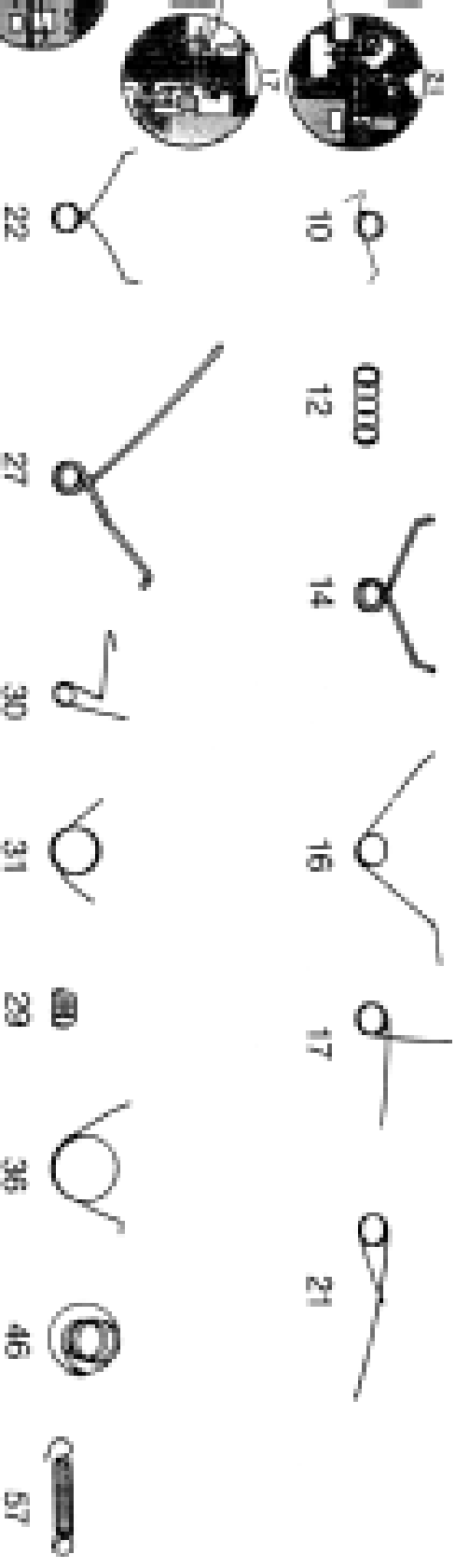
■ SPRING
The illustration shows the location of the springs. To check the spring force, please refer to the "Spring Force" section.

BOTTOM VIEW



■ SPRING ILLUSTRATION

The illustration shows the actual size of the springs so it can be used to check their shapes.
(The illustration shows the springs separated from the mechanism.)



■ REPLACEMENT PARTS LIST

EX-C5700

[illegible]

Part No.	Part No.	Description
MACHINERY		
CASSETTE DECK		
1	BT1502A	CASSETT ACSTY
2	BT1502A	PLATE
3	BT1502A	PLATE
4	BT1502A	BOTTOM LENSE
5	BT1502A	BOTTOM LENSE
6	BT1502A	BOTTOM LENSE
7	BT1502A	BOTTOM LENSE
8	BT1502A	BOTTOM LENSE
9	BT1502A	SPRING
10	BT1502A	SPRING
11	BT1502A	SPRING
12	BT1502A	SPRING
13	BT1502A	SPRING
14	BT1502A	CASSETT ACSTY
15	BT1502A	SPRING
16	BT1502A	SPRING
17	BT1502A	SPRING
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37	BT1502A	SPRING
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■ RESISTORS & CAPACITORS (CONTINUE)

[illegible]

■ REPLACEMENT PARTS LIST

Product number:

Components identified by *Agilent* have been in continuous use by *Agilent* without replacing any of these components used only manufacturer's specified parts.

Revised Instructions for Part 1

Figures without error bars indicate that they were for all groups.

- **Indication parts that are supplied by MITSUB.**

[24] Indicates parts that are supplied by MESA.

Part No.	Part No.	Description
ANALOG/VIDEO CIRCUITS		
C1	847005	10 PM-VIDEO (NO)
C2	844004	10 P-AMP
C3	844001	10 PM-VIDEO
C4	844004	10 P-VIDEO (AMP)
C5	844001	10 P-AMP
C6	1441008	10 POWER SUPP
TRANSISTORS		
Q001	2010004	TRANSISTOR
Q002	2010004	TRANSISTOR
DIODES		
D1	8441010	DIODE
D2	512000000	LED
Q004	844001	DIODE
Q005	844001	DIODE
Q006	844001	DIODE
Q007	844001	DIODE
Q008	844001	DIODE
Q009	844001	DIODE
Q010	844001	DIODE
VARIABLE RESISTORS		
V01	8441010	V.R. 10K 50% TOL
V02	8441010	V.R. 10K 50% TOL
V03	8441010	V.R. 10K 50% TOL
V04	8441010	V.R. 10K 50% TOL
V05	8441010	V.R. 10K 50% TOL
V06	8441010	V.R. 10K 50% TOL
V07	8441010	V.R. 10K 50% TOL
V08	8441010	V.R. 10K 50% TOL
V09	8441010	V.R. 10K 50% TOL
V10	8441010	V.R. 10K 50% TOL
VARIABLE CAPACITORS		
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