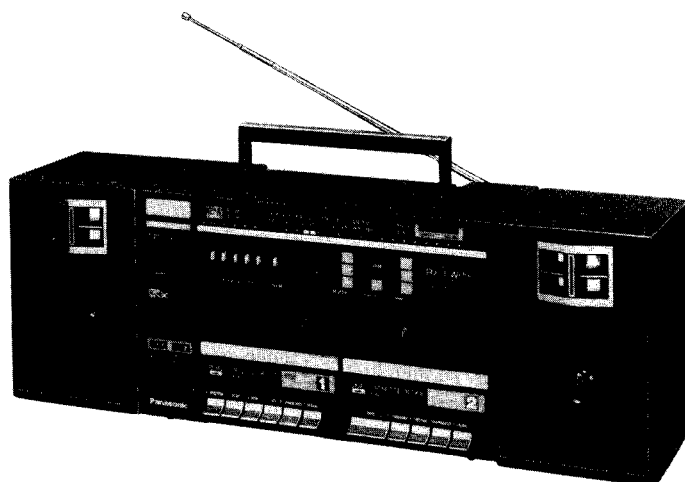


Service Manual

Radio Cassette

Portable Stereo Component System

RX-CW26
(Black)



This is the Service Manual for the following areas.

M...For U.S.A.

C...For Canada

RX-CW30 MECHANISM SERIES

■ SPECIFICATIONS

General:

Power Requirement: AC; 120 V, 60 Hz
Battery; 9 V (Six "D" Size Flashlight Batteries)
(Panasonic UM-1 or equivalent)

Power Consumption: 14 W (AC only)
8 W (4 W×2)... RMS (max.)

Power Output: Woofer; 5" (12 cm) PM Dynamic Speaker (2.7Ω)
Tweeter; ¾"×1½" (2 cm×4 cm) Ceramic Speaker (1.4 kΩ)

Input: LINE IN; sensitivity 240 mV/50 kΩ over

Output: EXT SP; 2.7Ω (Ø3.5)
HEADPHONES; 32Ω (Ø3.5)

Dimensions: Total Size
22"×7⅞"×6⅛"
[559 (W)×194 (H)×154 (D) mm]
Main Unit
12⅝"×7⅝"×6⅛"
[314 (W)×194 (H)×154 (D) mm]
Speaker Box
4⅞"×7⅝"×5⅜"
[125 (W)×194 (H)×132 (D) mm]

Weight:

8 lbs. 2.5 oz. (3.7 kg) without batteries

Radio Section:

Radio Frequency Range: FM; 88~108 MHz
AM; 525~1610 kHz (571~186 m)

Intermediate Frequency: FM; 10.7 MHz
AM; 455 kHz

Sensitivity: FM; 3 μV/50 mV output (-3 dB Limit Sens)
AM; 126 μV/m/50 mV output

Tape Deck Section:

Frequency Response: 50~13,000 Hz (with normal tape)

Recording System: AC bias, DC erase

Tape Speed: 4.8 cm/s (1⅞ ips)

Track System: 4-track 2-channel stereo recording and playback

Tape Deck Section:

Frequency Response: 50~13,000 Hz (with normal tape)

Tape Speed: 4.8 cm/s (1⅞ ips)

Track System: 4-track 2 channel stereo playback

Weights and dimensions shown are approximate.
(Les poids et dimensions mentionnés sont approximatifs.)
Design and specifications are subject to change without notice.

Panasonic®

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SAFETY PRECAUTIONS (For U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

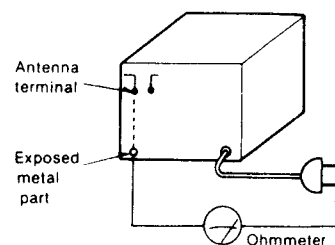


Fig. 1

Resistance = 3 MΩ—5.2 MΩ

INSULATION RESISTANCE TEST (For U.S.A.)

1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3 MΩ and 5.2 MΩ to all exposed parts*. (Fig. 1) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. 2)

*Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.

4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

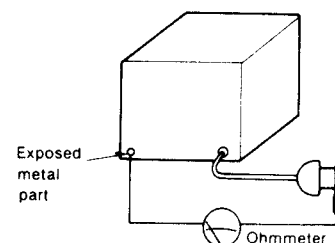
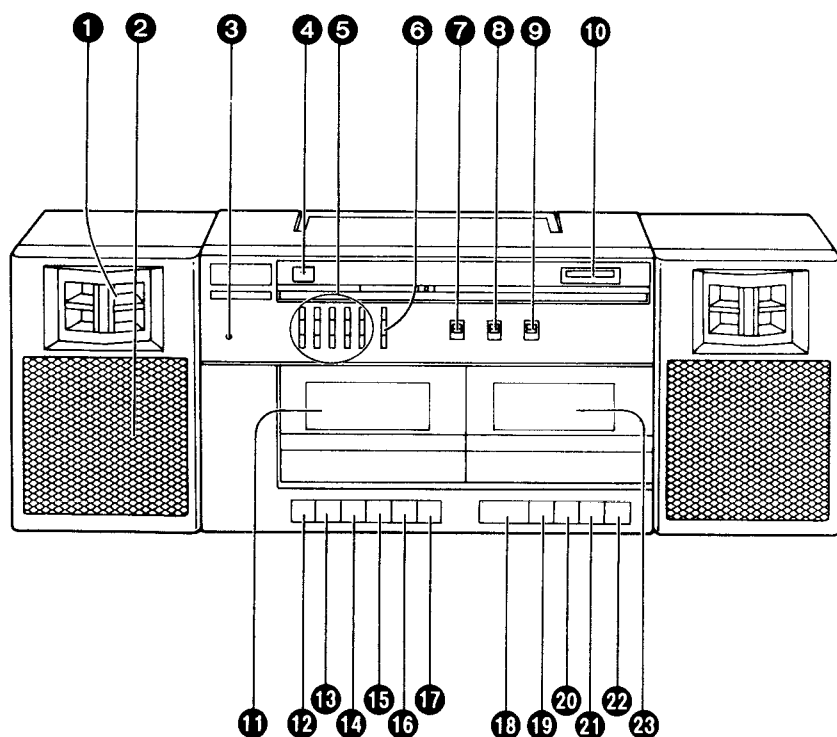


Fig. 2

Resistance = Approx ∞

LOCATION OF CONTROLS AND COMPONENTS



- 1 Speakers (Tweeter) [$\frac{3}{4}$ " $\times$ 1 $\frac{1}{2}$ " (2 cm $\times$ 4 cm) 1.4 kΩ]
- 2 Speakers (Woofer) [5" (12 cm) 2.7Ω]
- 3 Headphones Jack (PHONES) 32Ω
- 4 FM Stereo Indicator (FM STEREO)
- 5 Graphic Equalizer Controls (GRAPHIC EQUALIZER)
- 6 Volume Control (VOLUME)
- 7 Function Selector (SELECTOR)
- 8 Editing Mode Selector/Beat Proof Switch (EDITING/B.P)
- 9 Band Selector (BAND)
- 10 Tuning Control (TUNING)

Tape 1 (For Recording and Playback)

- 11 Cassette Compartment
- 12 Record Button (● RECORD)
- 13 Playback Button (▶ PLAY)
- 14 Rewind Button (◀◀ REW)
- 15 Fast Forward Button (▶▶ FF)
- 16 Stop/Eject Button (■/▲ STOP/EJECT)
- 17 Pause Button (|| PAUSE)

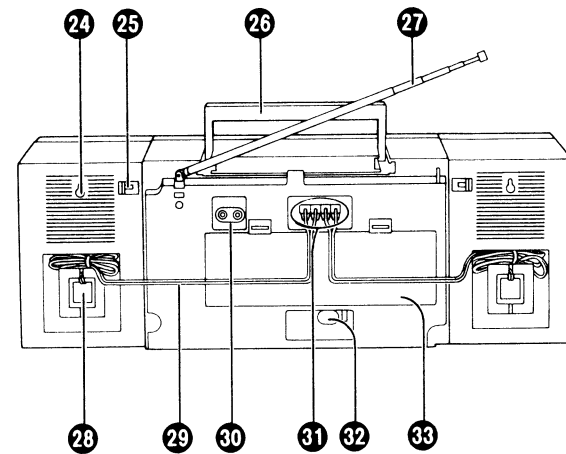
Tape 2 (For Playback)

- 18 Playback Button (▶ PLAY)
- 19 Rewind/Review Button (◀◀ REW/REV)
- 20 Fast Forward/Cue Button (▶▶ FF/CUE)
- 21 Stop/Eject Button (■/▲ STOP/EJECT)
- 22 Pause Button (|| PAUSE)
- 23 Cassette Compartment

BATTERY SERVICE LIFE

UM-1 (D-size) Batteries
Approx. 24 hours of recording (EIAJ)
Approx. 12 hours of playback (EIAJ) with volume set at $\frac{3}{4}$ position

The above battery service life is measured according to the conditions set forth by EIAJ (Electronic Industries Association of Japan). As the battery service life varies with the method of operation and environmental conditions, use these values as reference.



- 24 Speaker Wall Mounts
- 25 Speaker Release Levers (RELEASE)
- 26 Handle
- 27 Telescopic Antenna
- 28 Speaker Cable Compartments
- 29 Speaker Cables
- 30 Line Input Jacks (LINE IN) [240 mV/50 kΩ]
- 31 Speaker Terminals (SPEAKER IMP 2.7-8Ω)
- 32 AC Socket (AC IN ~)
- 33 Battery Compartment

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

DISASSEMBLY INSTRUCTIONS

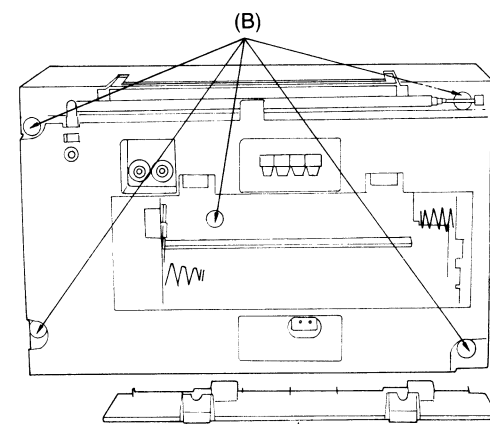


Fig. 1

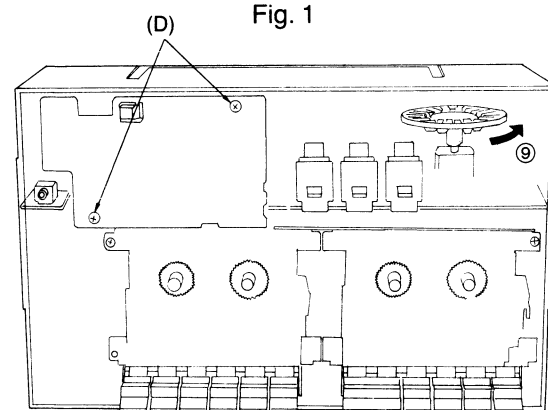


Fig. 3

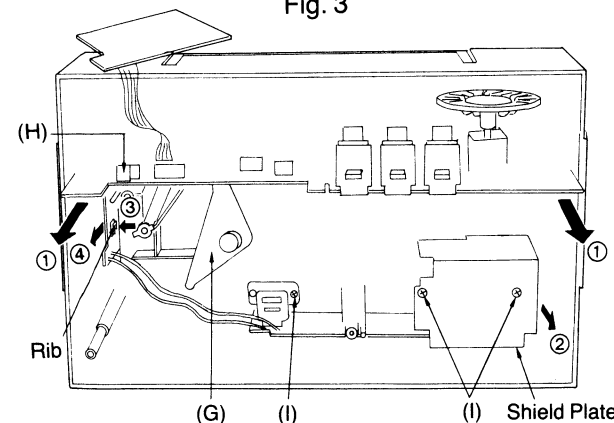


Fig. 5

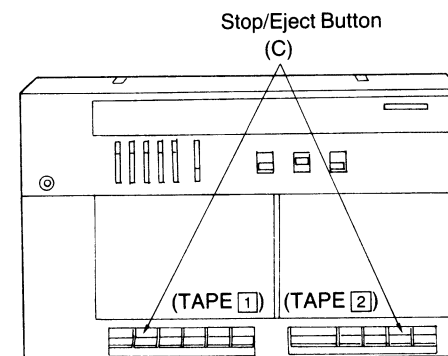


Fig. 2

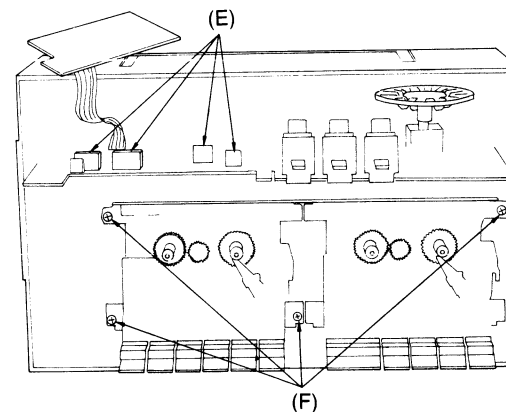


Fig. 4

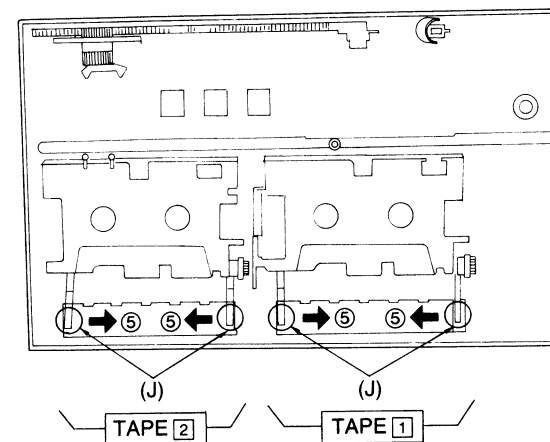


Fig. 6

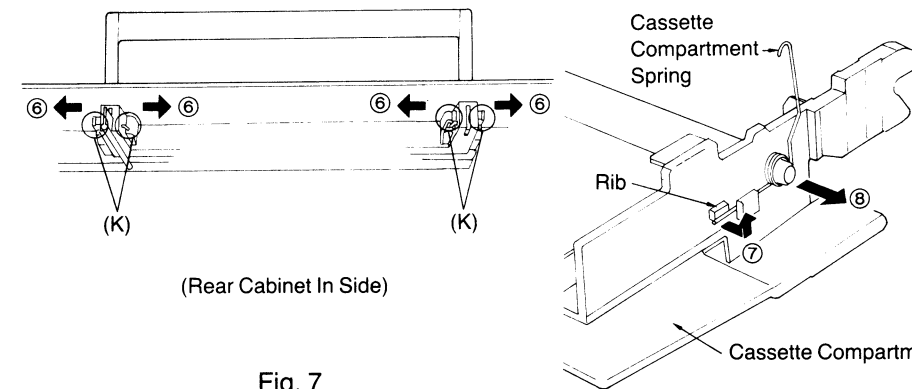


Fig. 7

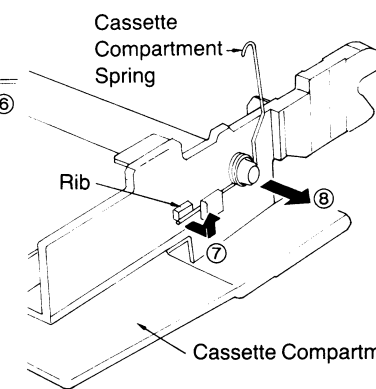


Fig. 8

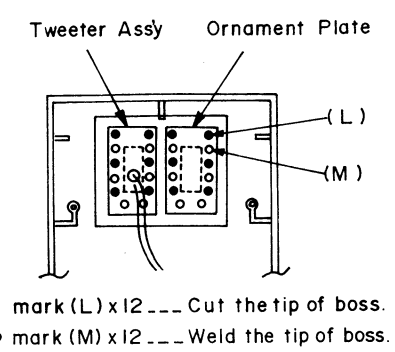


Fig. 9

- mark (L) x12 --- Cut the tip of boss.
- mark (M) x12 --- Weld the tip of boss.

Ref. No.	Shown in Fig.—	To remove —	Remove —
1	1	Front Cabinet Ass'y	Remove the battery cover (A) x1
2	1		Screw (3x40) mm (B) x5
3	2		Push the Stop/Eject button (Tape 1 & 2) (C) x2
4	3	Graphic EQ Circuit Board	Screw (3x12) mm (D) x2
5	4	Mechanism Unit (Tape 1 & 2)	Socket (E) x4
6	4		Screw (3x12) mm (F) x4
7	5	Main Circuit Board	Record/playback lever (G) x1
8	5		Socket (H) x1
9	5		Pull out the main circuit board in the direction of arrow ①.
10	5	Power Supply Circuit Board and Battery Circuit Board	Screw (3x12) mm (I) x3
11	5		Pull out the shield plate in the direction of arrow ②.
12	5		Push rib in the direction of the arrow ③ and remove the battery circuit board in the direction of the arrow ④.
13	6	Cassette Compartment Cover (Tape 1 & 2)	Remove the cassette compartment cover by pulling one side at a time toward the front of the set while pushing it with a standard screwdriver in the direction of the arrow ⑤ (J) x4
14	7	Handle	Remove the rib in the direction of the arrow ⑥ (K) x4
15	8	Cassette Compartment Spring	Remove the rib in the direction of the arrow ⑦.
16	8		Remove the spring in the direction of the arrow ⑧.
17	9	Tweeter Ass'y and Ornament Plate	Cut the tip of boss with a cutter (L) x12

■ HOW TO REMOVE A TANGLED TAPE

- Turn the flywheel in the direction of the arrow with a screwdriver or similar tool inserted from the bottom of the cabinet. (Fig. 10)
- Be careful not to damage the drive belt. Be sure to apply the screwdriver directly to the flywheel to turn the flywheel. (Do not push on the belt to turn the wheel.)

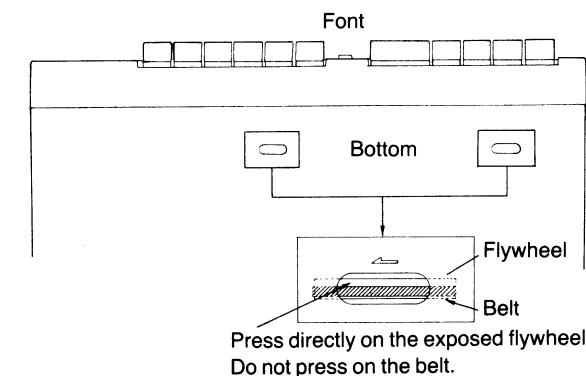


Fig. 10

■ 0 (ZERO) POINT ADJUSTMENT

1. Line up the dial point in the front cabinet assembly with the "0" point graduation as shown in Fig. 11.
2. Turn the variable capacitor gear on the main circuit board all the way in the direction of arrow ⑨. (Fig. 3)
3. Next, assemble the front and rear cabinets, and the 0 (zero) point adjustment is complete.

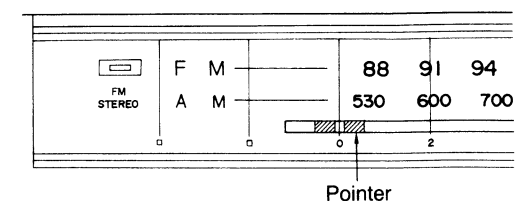
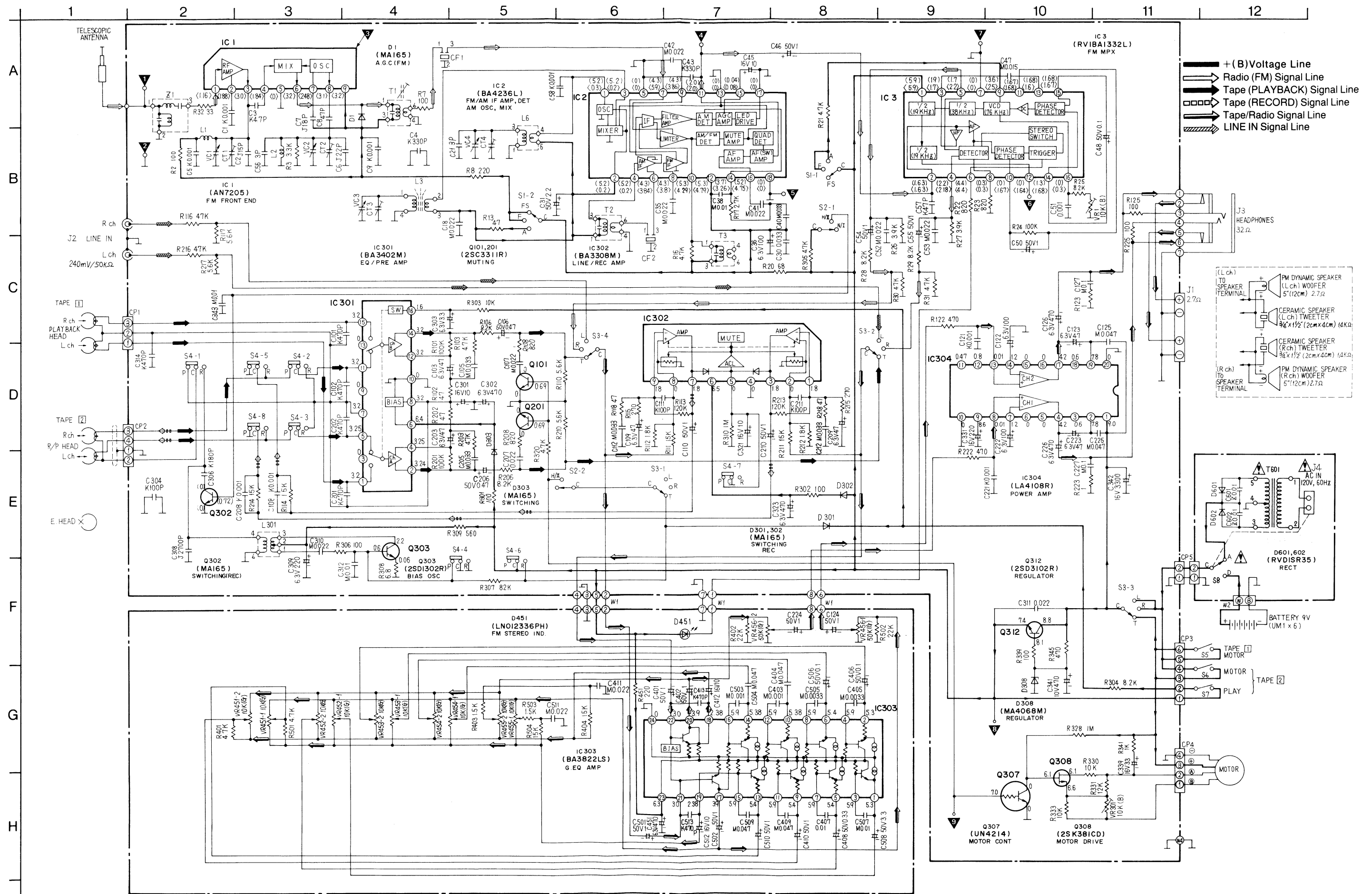


Fig. 11

SCHEMATIC DIAGRAM



MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control maximum.
2. Set graphic equalizer to center.
3. Set band switch to AM or FM ST.
4. Set function selector to radio.
5. Set power source voltage to 9 V DC.
6. Output of signal generator should be no higher than necessary to obtain an output reading.

■ AM ALIGNMENT

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLT METER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
AM-IF ALIGNMENT						
(1)	AM	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455 kHz 30% Mod. at 400 Hz	Point of non-interference. (on/ about 600 kHz)	Output meter across voice coil.	T2 (AM IFT) Adjust for maximum output.
AM-RF ALIGNMENT						
(2)	AM	"	511 kHz	Tuning capacitor fully closed.	"	L6 (AM OSC Coil) Adjust for maximum output.
(3)	AM	"	1,660 kHz	Tuning capacitor fully open.	"	CT4 (AM OSC Trimmer) "
(4)	AM	"	550 kHz	Tune to signal.	"	(• 1) L3 (AM ANT Coil) Adjust for maximum output. Adjust L3 by moving coil bobbin along ferrite core.
(5)	AM	"	1,500 kHz	"	"	CT3 (AM ANT Trimmer) Adjust for maximum output. Repeat steps (2)~(5).
(• 1) Cement antenna bobbin with wax after completing alignment.						

(•1) Cement antenna bobbin with wax after completing alignment.

■ FM ALIGNMENT

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLT-METER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
	FM-IF ALIGNMENT					
(1) FM	High side thru. 0.001 μ F to test point ∇ . Negative side to test point ∇ .	10.7 MHz (SWP.)	Point of non-interference. (on/ about 90 MHz)	Connect vert. amp. of scope to test point ∇ . Negative side to test point ∇ .	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to fig. 2)
(2) FM	"	"	"	"	T3 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 3)
	FM-RF ALIGNMENT					
(3) FM	Connect to test point ∇ through FM dummy antenna. Negative side to test point ∇ .	86.2 MHz	Variable capacitor fully closed.	Output meter across voice coil.	L2 (FM OSC Coil)	(•2) Adjust for maximum output.
(4) FM		109.2 MHz	Variable capacitor fully open.	"	CT2 (FM OSC Trimmer)	"
(5) FM		106 MHz	"	"	CT1 (FM ANT Trimmer)	(•2) Adjust for maximum output. Repeat steps (3)~(5).
(•2) Three output responses will be present; proper tuning is the center frequency.						

(•2) Three output responses will be present; proper tuning is the center frequency.

Note: If the FM RF adjustment CT2 (109.2 MHz) cannot be measured, cut out C56 Capacitor.

■ SEPARATION ALIGNMENT

ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
Adjustment of pilot signal.	98 MHz, 60 dB (CW) Connect to test point ∇ through FM dummy antenna. Negative side to test point ∇ .	∇ ...(+) ∇ ...(-)	VR1	19 kHz	Adjust VR1, for 19 kHz (± 100 Hz) reading on electronics counter.

■ TAPE ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Azimuth (Tape [1] & [2])	QZZCFM (8 kHz, -20 dB)	SP OUT (AC voltmeter & Oscilloscope)	Maximum output.	Azimuth screw	Playback mode Mode switch→STEREO (Refer to Fig. 4)

■ TAPE SPEED ADJUSTMENT

ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	REMARKS
Tape speed adjustment (Tape [1] & [2])	QZZCWAT (3kHz)	Headphone Jack (32Ω)	VR301 [Tape 2] (Refer to Fig. 1)	Normal Speed Adjustment 1. Insert a test tape (QZZCWAT) in tape [2] and play it back.
	2. Adjust VR301 until the measured value becomes 3.010±30 Hz . (Refer to Fig. 5 & 6 when using a wow/flutter meter.) 3. Check tape [1] in the same way to make sure it satisfies the specification. Tape [1].....-30±45 Hz of the speed of tape [2]. If it doesn't repeat steps 1 and 2 above. Note: This set uses one drive motor, so be sure to perform the adjustment in tape [2]. High Speed Measurement 4. Short the test point  and  to set the high speed mode. (Refer to Circuit Board and Wiring Connection Diagram) 5. Check to be sure that the measured speed is at least 1.8 times faster than normal speed.			

■ ALIGNMENT POINT

• Please refer to Circuit Board and Wiring Connection Diagram for test point locations.

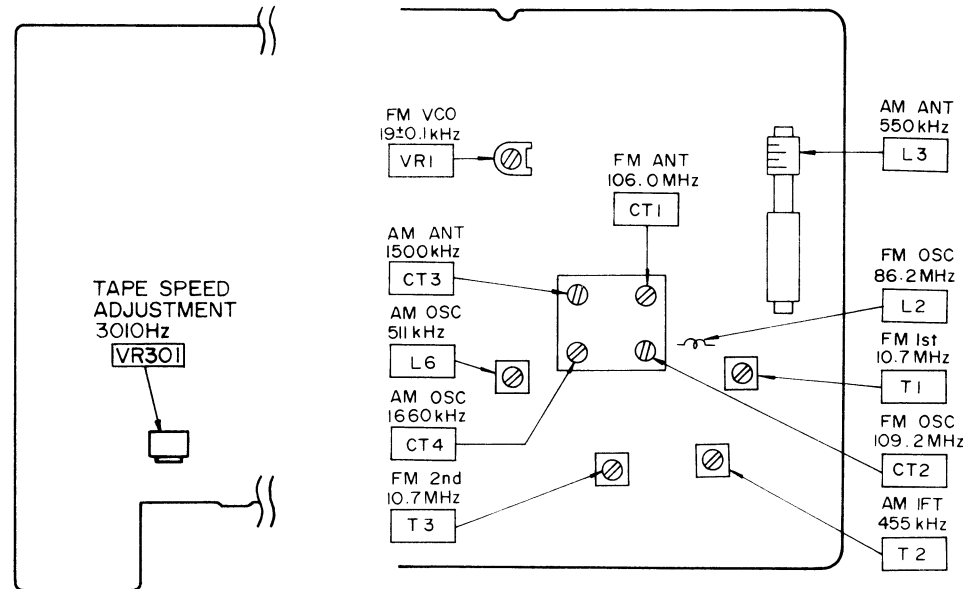


Fig. 1

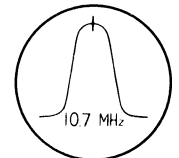


Fig. 2

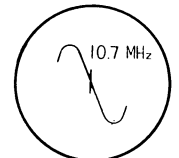


Fig. 3

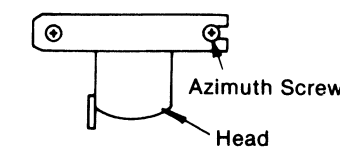


Fig. 4

• NEEDLE POSITION OF THE WOW/FLUTTER METER

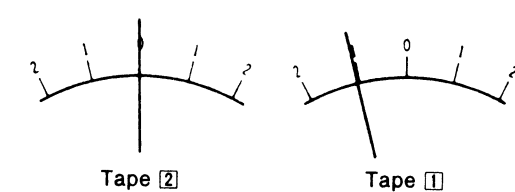


Fig. 5

Fig. 6

■ MECHANIS

The letter in sq indicates the ty
[1]...TAPE-1 (P
[2]...TAPE-2 (P

The letter in the color of the par
⑤...Silver, ⑥...

* There are thr
the head heig
When servic
color.

Note:
There are som
do not require u

Ref. No. Part M

ME

M 1 RFU95Z

M 2 RFY541Z

M 3 [1] RFY579Z

M 4 [1] RFY594Z

M 5 [1] RFY630Z

M 6 [1] RFY631Z

M 7 [1] RFY632Z

M 8 [1] RFY633Z

M 9 RFY634Z

M 10 RFY548Z

M 11 RFG86Z

M 12 RFS459Z

M 13 RFS536Z

M 14 RFS561Z

M 15 [1] RFU83Z

M 16 [1] RFS463Z

M 17 [1] RFS530Z

M 18 [1] RFS562Z

M 19 RFS466Z

M 20 RFY549Z

M 21 RFS596Z

M 24 RFS462Z

M 26 [1] RFE227Z

M 27 RFU39Z

M 28 RFY394Z

M 30 [1] RFS531Z

M 31 [1] RFY391Z

M 33 RFE245Z

M 34 RFS447Z

M 35 [1] RFR29Z

M 36 [1] RFS448Z

M 39 RFQ42Z

M 40 RFS532Z

M 41 RFE281Z

M 42 RFB62Z

M 43 [2] RFF39Z

M 44 [1] RFF40Z

M 45 RFU79Z

M 46 RFY652Z

M 47 RFG61Z

M 48 [1] RFS450Z

M 49 RFG62Z

M 50 RFS537Z

M 51 RFJ62Z

M 52 RFJ44Z

M 53 [1] RFY716Z

M 54 RFS563Z

M 55 RFD228Z

M 56 RFD27Z

M 57 SMQ491

M 59 RFB63Z

M 62 RFY685Z

M 63 RFS564Z

■ TAPE ADJUSTMENT

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Azimuth (Tape [1] & [2])	QZZCFM (8 kHz, -20 dB)	SP OUT (AC voltmeter & Oscilloscope)	Maximum output.	Azimuth screw	Playback mode Mode switch→STEREO (Refer to Fig. 4)

■ TAPE SPEED ADJUSTMENT

ITEM	FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	REMARKS
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■ ALIGNMENT POINT

•Please refer to Circuit Board and Wiring Connection Diagram for test point locations.

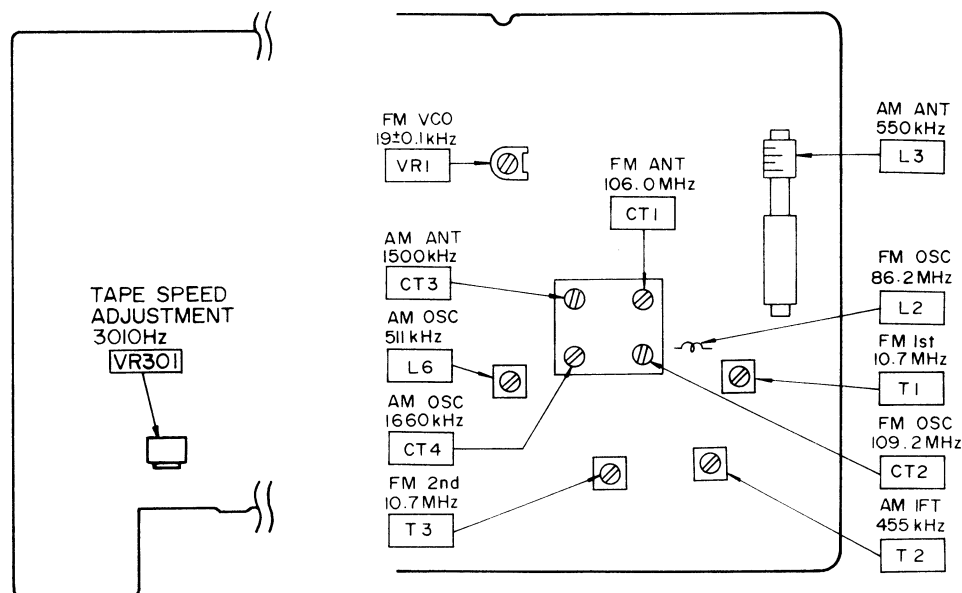


Fig. 1

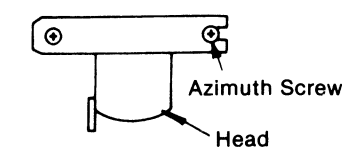


Fig. 4

●NEEDLE POSITION OF THE WOW/FLUTTER METER

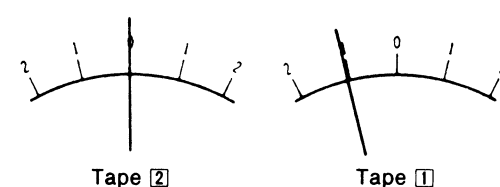


Fig. 5

Fig. 6

■ MECHANISM PARTS LIST

The letter in square brackets in the Ref. No. column indicates the type of the mechanism.

- [1]...TAPE-1 (REC/PLAY DECK)
[2]...TAPE-2 (PLAY DECK)

The letter in the circle after the part name indicates the color of the part.

Ⓢ...Silver, Ⓒ...Copper, Ⓐ...Gold

※There are three types of M166 used for adjustment of the head height.
When servicing, they can be distinguished by their color.

Note:

There are some models that do not use M166 and so do not require use of M166.

Screw Dimensions Quick Reference

•Dimensions

XSN 3 + 10=Pan head machine screw, 3 mm in diameter, 10 mm long.

Type/Diameter/Length

•Types

Precision machine screw	Machine screw	Tapping/Tap-tight machine screw
XQC Flat head XQG Oval fillister head XQH Flat fillister head XQS Flat head	XSB Binding head XSC Oval countersunk head XSH Flat fillister head XSN Pan head XSS Flat head	XTB Binding head XTC Oval countersunk head XTN Pan head XTS Flat head

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
MECHANICAL PARTS								
M 1	RFU95Z	Button Base Ass'y	M 64	RFS467Z	Spring, Cassette Tape Holder	M 136 [1]	RFE222Z	Screw (Pause Prevention Bracket M'tg)
M 2	RFY541Z	Lever, Switch Actuator	M 65 [1]	RJH2E9X	Head, Record/Playback	M 137 [2]	RFU72Z	Head Panel
M 3 [1]	RFY579Z	Lever, Push Button Actuator	M 65 [2]	RJH2E12X	Head, Playback	M 138 [1]	RFS535Z	Spring, Magnet Arm
M 4 [1]	RFY594Z	Lever, Record	M 67 [1]	RJH2C12XZ	Head, Erase	M 141 [1]	RFD322Z	Bracket, Pause Prevention
M 5 [1]	RFY630Z	Lever, Playback	M 68	RFM69Z	Motor Ass'y (with Pulley)	M 142	RFI35Z	Mat-A
M 6 [1]	RFY631Z	Lever, Rewind	M 70 [1]	RFE229Z	Screw ⌀2×3 (Record Lever M'tg)	M 143	RFI41Z	Mat-B
M 7 [1]	RFY632Z	Lever, Fast Forward						
M 8 [1]	RFY633Z	Lever, Stop/Eject	M 71	XTN2 + 3B	Screw ⌀2×3 (Cassette Tape Holder M'tg)	M 145 [2]	RFE102Z	Screw (Leaf Switch M'tg)
M 9	RFY634Z	Lever, Pause	M 72	XTN2 + 4B	Screw ⌀2×4 (Motor Bracket, Leaf Switch M'tg)	M150	RBC888Z	Button, Pause Ⓢ
M 10	RFY548Z	Lever, Rewind Actuator	M 73	XSB2 + 4	Screw ⌀2×4 (Sub Chassis, Reel Table Base M'tg)	M151	RBC887Z	Button, Stop/Eject Ⓢ
M 11	RFG86Z	Cam, Pause	M 75	XSN2 + 6	Screw ⌀2×6 (Head Base M'tg)	M152	RBC886Z	Button, Fast Forward Ⓢ
M 12	RFS459Z	Spring, Pause Cam	M 76	RFE98Z	Screw ⌀2×6 (Head Base M'tg)	M153	RBC885Z	Button, Rewind Ⓢ
M 13	RFS536Z	Stopper, Pause Spring	M 77	XSN2 + 7	Screw ⌀2×7 (Record/Playback M'tg)	M154 [1]	RBC884Z	Button, Playback Ⓢ
M 14	RFS561Z	Spring, Button Lever (B)	M 78	RFE230Z	Screw ⌀2×7 (Azimuth Adj.)	M155 [1]	RBC883Z	Button, Record Ⓢ
M 15 [1]	RFU83Z	Sub Chassis Ass'y	M 82	RFN143Z	Washer (Fast Forward Gear, Takeup Roller)	M156 [2]	RBC889Z	Button, Playback Ⓢ
M 16 [1]	RFS463Z	Spring, Button Lever (A)	M 83	RFN142Z	Washer (Supply & Takeup Reel Table)	M158	RFE279Z	Metal, Guide
M 17 [1]	RFS530Z	Spring, Playback Button Lever	M 84	RFN123Z	Washer (Flywheel M'tg)	M159	XQN2+A7FZ	Screw ⌀2×7 (Button Frame Ass'y M'tg)
M 18 [1]	RFS562Z	Spring, Record Lever				M162 [1]	RFN167Z	Washer (Push Button Actuator)
M 19	RFS466Z	Spring, Push Button Actuator	M 85	RFN153Z	Washer (Flywheel)	M163	RFE280Z	Screw (Detector Bracket M'tg)
M 20	RFY549Z	Lever, Auto Stop Actuator	M 94	RFI40Z	Rubber, Brake	M164	RFD292Z	Bracket, Detector
M 21	RFS596Z	Spring, Auto Stop Actuator	M 95	RFY717Z	Lever, Brake	M165	RFE297Z	Washer (Azimuth Adjustment)
M 24	RFS462Z	Spring, Button Lever (C)	M 96	RFN133Z	Collar, Brake Lever	*M166	RFE313Z	Terminal, Lug Ⓢ
M 26 [1]	RFE227Z	Head Panel				*M166	RFE314Z	Terminal, Lug Ⓐ
M 27	RFU39Z	Head Base	M 97	RFS629Z	Spring, Brake Lever	*M166	RFE315Z	Terminal, Lug Ⓢ
M 28	RFY394Z	Detection Lever Ass'y	M 98	RFY636Z	Lever, Operation	M167	RFN170Z	Washer (Supply Reel Ass'y)
M 30 [1]	RFS531Z	Spring, Head Panel	M 99	RFD252Z	Fram, Button	M168 [2]	RFE251Z	Screw (Metal Guide M'tg)
M 31 [1]	RFY391Z	Arm, Erase Head	M 100	RFY525Z	Shaft, Button Lever			
M 33	RFE245Z	Screw (Erase Head Arm, etc. M'tg)						
M 34	RFS447Z	Spring, Azimuth Adj.						
M 35 [1]	RFR29Z	Pinch Roller Ass'y						
M 36 [1]	RFS448Z	Spring, Pinch Roller Ass'y						
M 39	RFQ42Z	RF Pulley Arm Ass'y						
M 40	RFS532Z	Spring, RF Pulley Arm						
M 41	RFE281Z	Screw (RF Pulley Arm M'tg)						
M 42	RFB62Z	Belt, RF						
M 43 [2]	RFF39Z	Flywheel Ass'y						
M 44 [1]	RFF40Z	Flywheel Ass'y						
M 45	RFU79Z	Reel Table Base Ass'y						
M 46	RFY652Z	Lever, Takeup Reel Table Ass'y						
M 47	RFG61Z	Gear, Takeup Reel Roller						
M 48 [1]	RFS450Z	Spring, Takeup Reel Table						
M 49	RFG62Z	Gear, Fast Forward						
M 50	RFS537Z	Spring, Back Tension (Tapeup Side)						
M 51	RFJ62Z	Reel Table, Supply Reel Table Ass'y						
M 52	RFJ44Z	Reel Table, Takeup Reel Table Ass'y						
M 53 [1]	RFY716Z	Lever, Erase Safety						
M 54	RFS563Z	Spring, Back Tension (Supply Side)						
M 55	RFD228Z	Bracket, Motor						
M 56	RFD27Z	Cushion, Motor						
M 57	SMQ4918	Screw (Motor M'tg)						
M 59	RFB63Z	Belt, Main						
M 62	RFY685Z	Lever, Stop/Eject Slide						
M 63	RFS564Z	Spring, Stop/Eject Slide Lever						
			M 101 [2]	RFS566Z	Spring, Playback Button Lever			
			M 102 [2]	RFY596Z	Lever, Rewind			
			M 104 [2]	RFY597Z	Lever, Fast Forward			
			M 105 [2]	RFY595Z	Lever, Playback			
			M 106	RFS567Z	Spring, Switch Actuator Lever			
			M 107 [2]	RFU70Z	Sub Chassis Ass'y			
			M 108 [1]	RFY622Z	RF Actuator			
			M 109 [2]	RFY592Z	Lever, Push Button Actuator			
			M 110 [2]	RFY591Z	Lever, E Kick			
			M 111 [2]	RFS568Z	Spring, Head Panel			
			M 113 [2]	RFR35Z	Pinch Roller Ass'y			
			M 114 [2]	RFS569Z	Spring, Pinch Roller Ass'y			
			M 115 [2]	RFS570Z	Spring, Takeup Reel Table			
			M 117 [2]	RFY598Z	Lever, Stop/Eject			
			M 119 [1]	RFX101Z	PR Stopper			
			M 123 [2]	RFD230Z	Bracket, Switch			
			M 127 [2]	RFY589Z	Lever, RC			
			M 128 [2]	RFY573Z	Lever, RC Slide			
			M 129 [2]	RFN130Z	Collar, RC Lever			
			M 130 [2]	RFS572Z	Spring, RC			
			M 132 [2]	RFE221Z	Screw ⌀2×5 (Switch Bracket M'tg)			
			M 133 [2]	XQS2 + 25	Screw ⌀2×25 (RC Lever M'tg)			
			M 135 [2]	XUC2FT	Stop Ring (RC Slide Lever M'tg)			

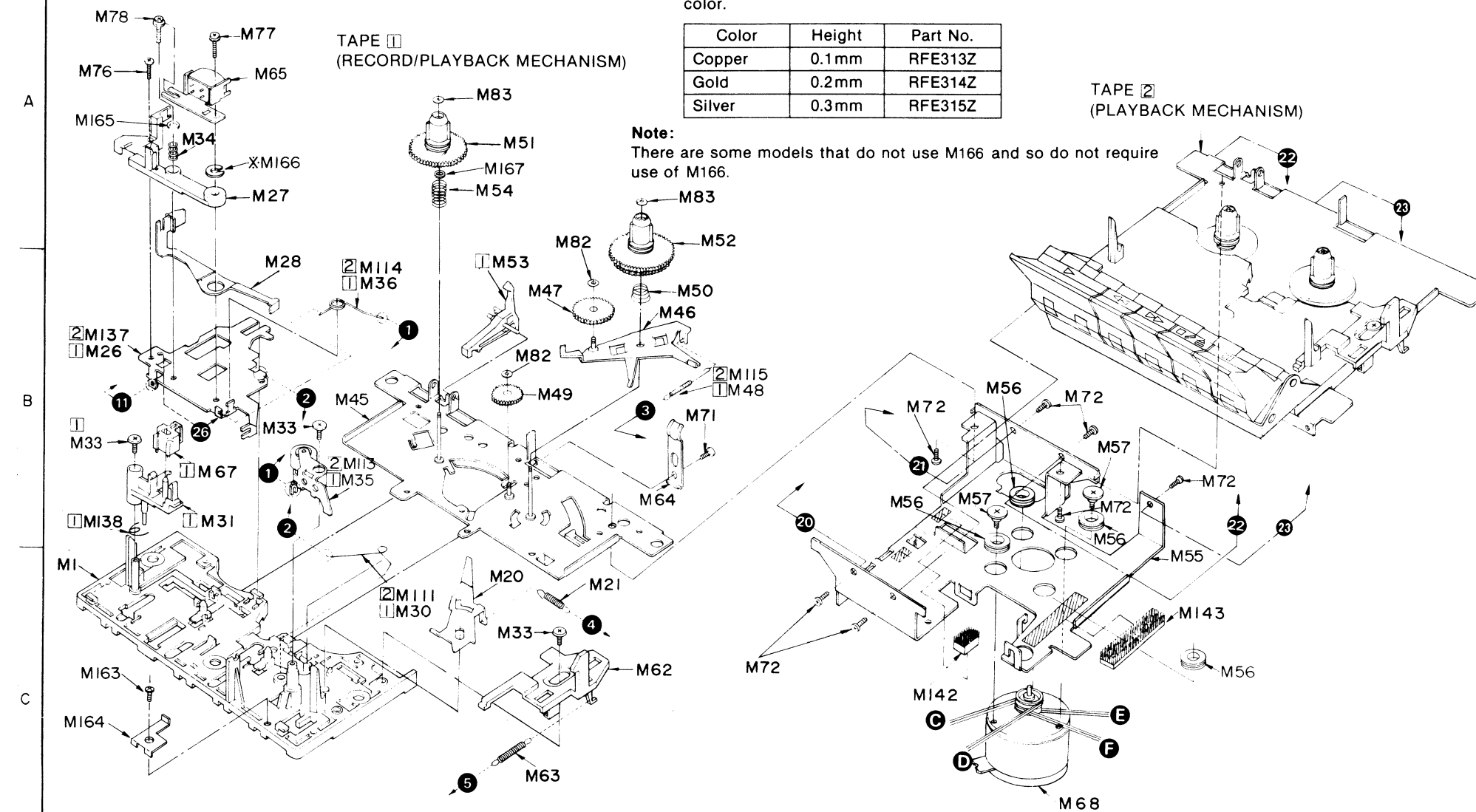
MECHANISM PARTS LOCATION

※ There are three types of M166 used for adjustment of the head height. When servicing, they can be distinguished by their color.

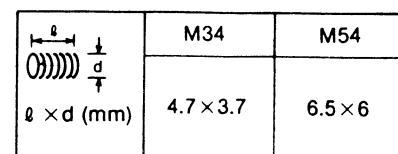
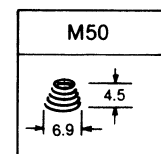
Color	Height	Part No.
Copper	0.1mm	RFE313Z
Gold	0.2mm	RFE314Z
Silver	0.3mm	RFE315Z

Note:

There are some models that do not use M166 and so do not require use of M166.

TAPE ①
(RECORD/PLAYBACK MECHANISM)TAPE ②
(PLAYBACK MECHANISM)

1~50	1 33 26 34	31	27 28 33 45 36 35	30	20 33 47 49 21 46 48 50
151~100	78 76	67 77	65	82 83 51 54 53 82 63 64 83 52 62	71 72 56 72 56 57 72 68 57 72 56 55 72 56
MI01~	137 138 165 163 164 166	114 113 111	167	115	142 143



MI~50	11 12 13 6 8	14	16 44 4	15 5	18
	9 24	43 42 17 7			10
M51~100	98 99 73	73	85 59	85 73 59 84	73
	100 98			70	
MI01~	150 151 152 102 130 117	101 168 129 133	107 105	132	128 141 136 135
	159 158	153 156 159 154 155 127 104			145 123 119

Ref. NO.	MI2	MI4	MI6	MI7	MI9	M21	M24	M30	M36	M40	M48	M63	M97	MI01	MI06	M111	M114	M
	5.1 x 3.2		19.8 x 2.4	8.7 x 2.6	10.6 x 2.2	8.3 x 2.2				9.9 x 2.2	9.8 x 2.2	18.4 x 2		14.9 x 2.7	9.8 x 2.3		9.9 x 2.2	14.5
		10.5 x 10.5					10 x 10	5 x 1.8	4 x 1.7				25.7 x 25.7			20.9 x 5.9	18.5 x 6.6	

MECHANISM PARTS LOCATION

ed for adjustment of the head
an be distinguished by their

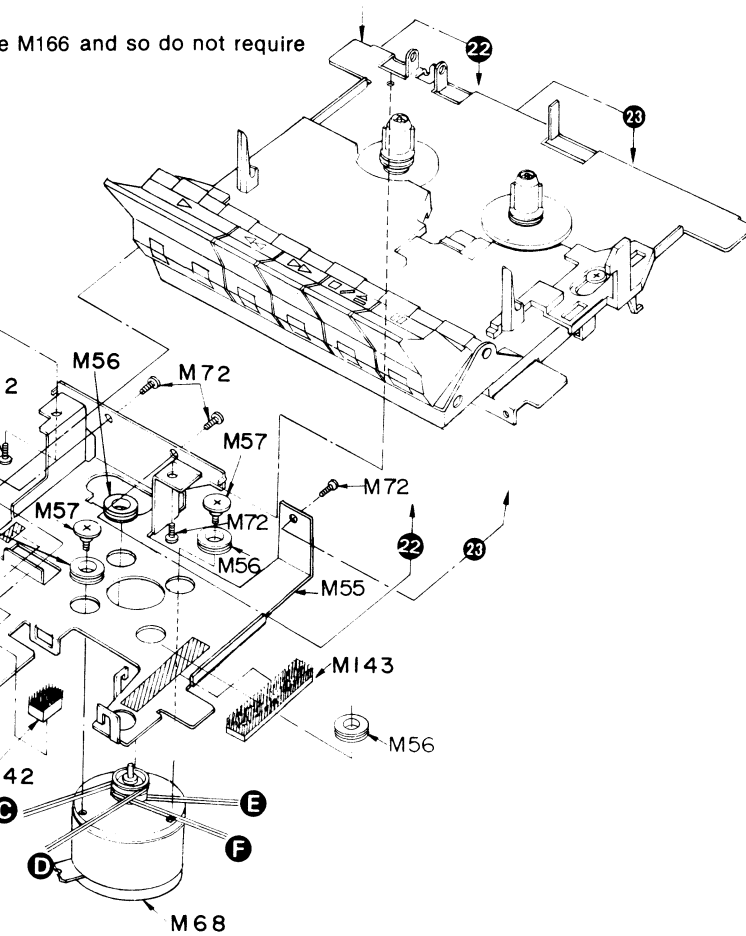
rt No.

E313Z

E314Z

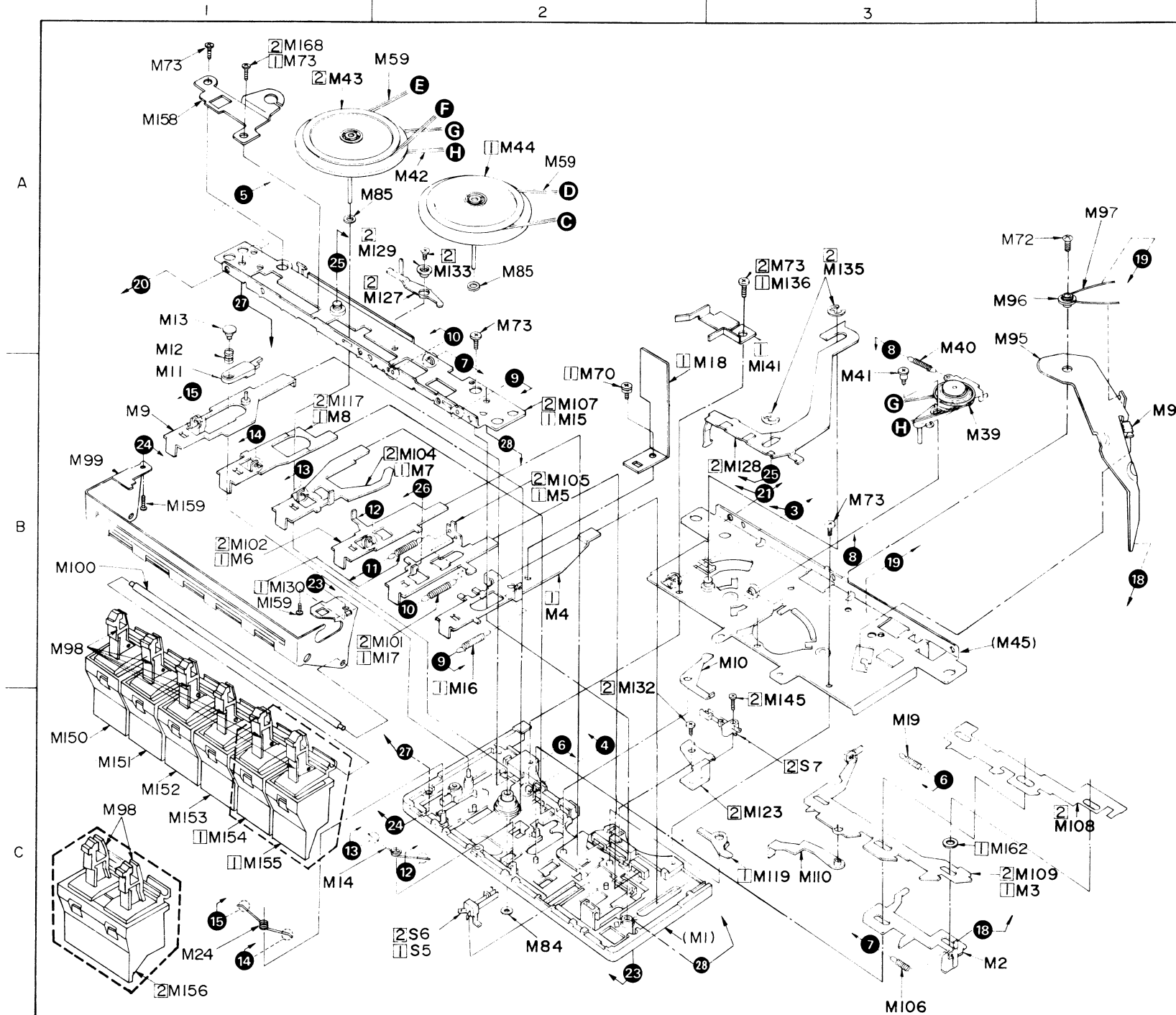
e M166 and so do not require

TAPE 2
(PLAYBACK MECHANISM)



2 56 57 72 68 57 72 56 55 72 56

142 143



NOTES:

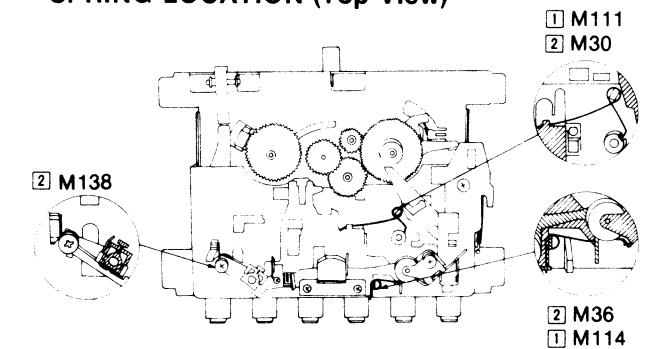
1...TAPE 1 (REC/PLAY DECK)
2...TAPE 2 (PLAY DECK)

Specifications

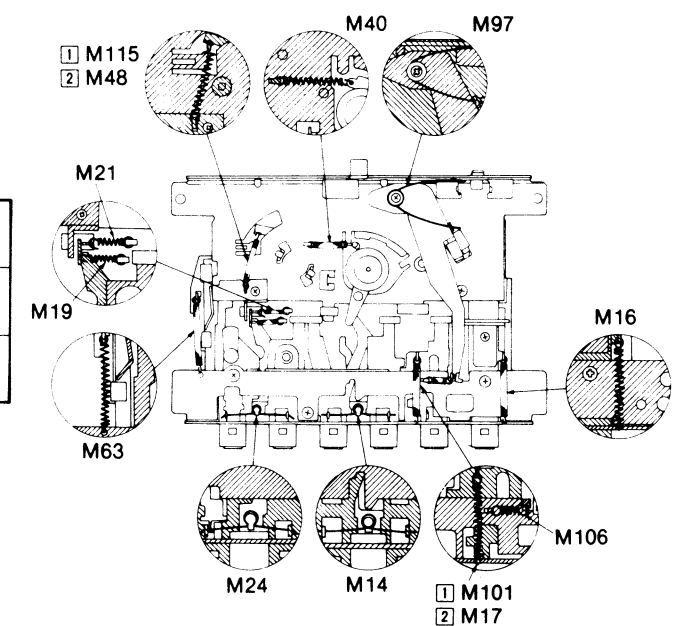
Playback torque	25~55 g·cm
Fast Forward torque	60~130 g·cm
Rewind torque	60~130 g·cm
Pressure of pressure roller	300~400 g
Wow and flutter	Less than 0.2% (WRMS)

Mechanism Operation: Auto stop

● **SPRING LOCATION (Top View)**



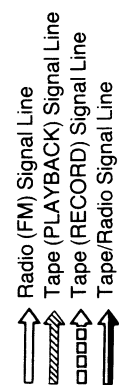
● **SPRING LOCATION (Rear View)**



M1~50	11 12 13 6 8 9 24	14 16 44 4 15 5 43 42 17 7	18 41 10	40 2 3 19 39
M51~100	98 99 73 100 98	73 85 59 85 73 59 84 70	73 73	72 97 94 95 96
M101~	150 151 152 102 130 117 159 158	101 168 129 133 155 127 104	107 105 132 128 141 136 135 145 123 119 110	109 108 162 106

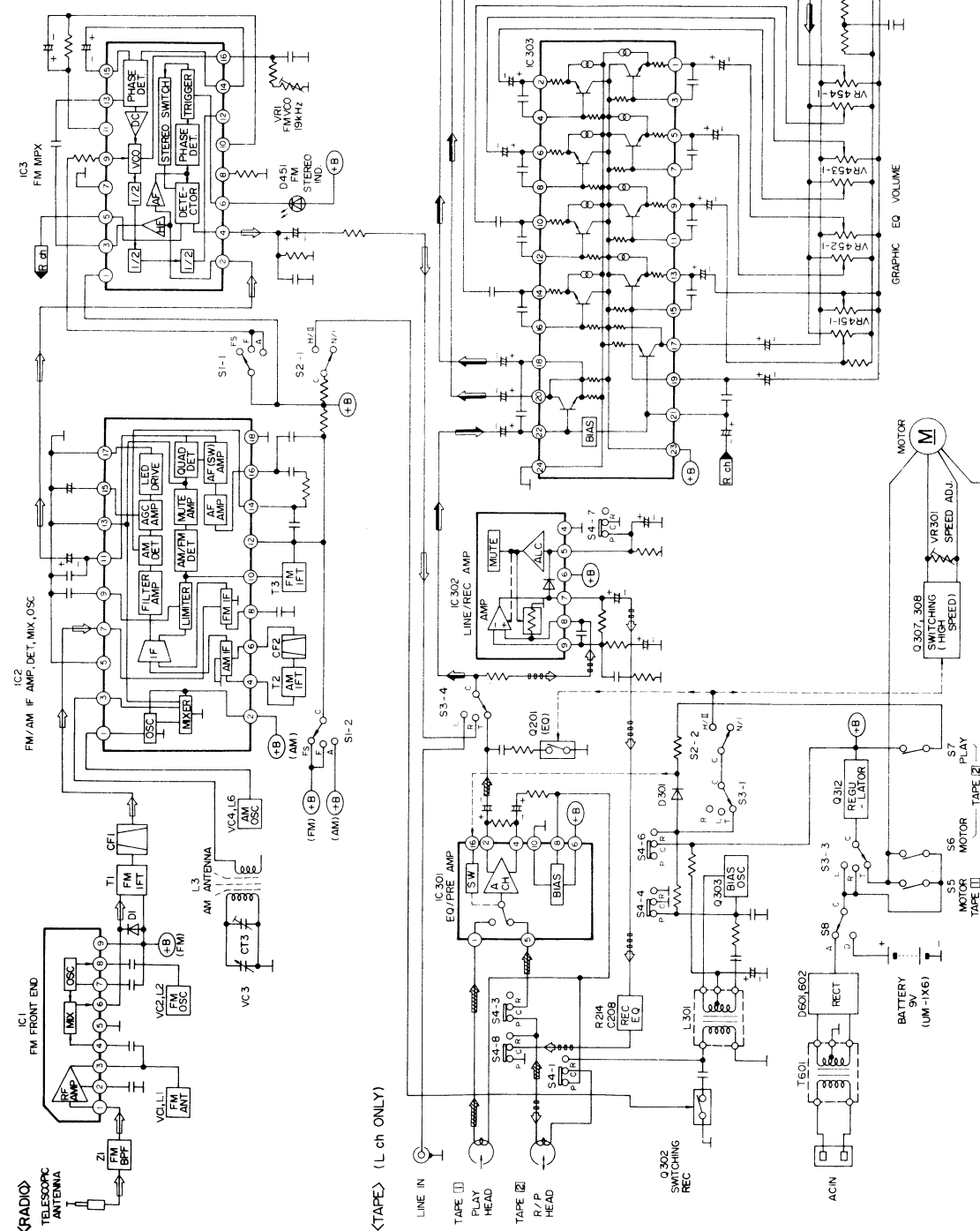
M24	M30	M36	M40	M48	M63	M97	M101	M106	M111	M114	M115	M130	M138
			99 x 2.2	98 x 2.2	18.4 x 2		149 x 2.7	9.8 x 2.3		99 x 2.2	145 x 2.2	155 x 2.7	
10 x 10	5 x 18	4 x 17				25.7×25.7			20.9×5.9	18.5×6.6			8 x 6

BLOCK DIAGRAM

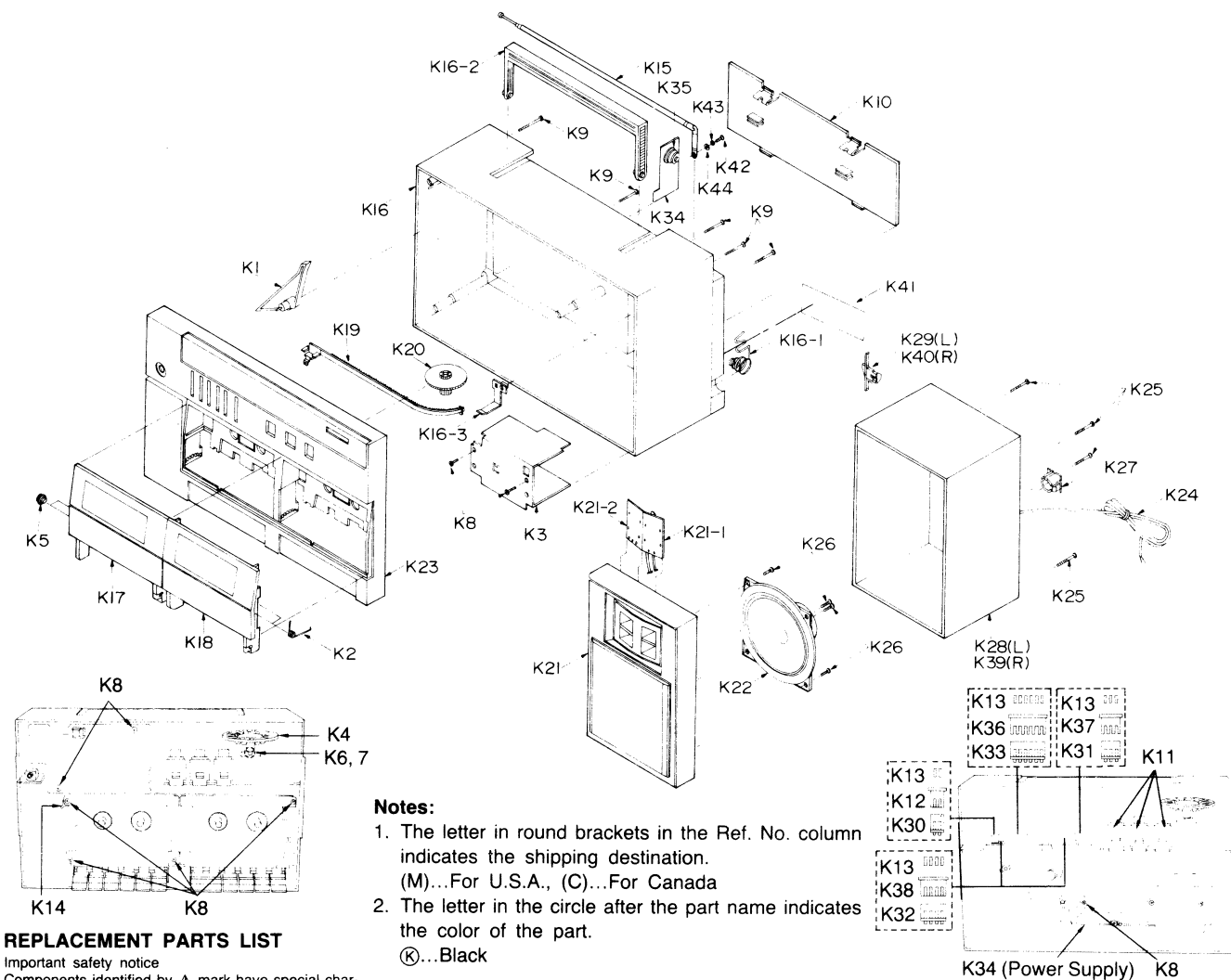


Notes:

- | | |
|------------------|--|
| 1. S1-1, S1-2: | Band select switch in "FM STEREO" position. |
| 2. S2-1, S2-2: | Editing/B.P. select switch in "Normal/1" position. |
| 3. S3-1~3-4: | Function select switch in "TAPE" position. |
| 4. S4-1~S4-8: | Record/Playback switch in "Playback" position. |
| 5. S5: | Motor switch in "OFF" position [TAPE 1]. |
| 6. S6: | Motor switch in "OFF" position [TAPE 2]. |
| 7. S7: | Play switch in "OFF" position [TAPE 2]. |
| 8. S8: | AC/DC IN select switch in "AC" position. |
| 9. VR1: | FM VCO Adjustment VR. |
| 10. VR451~VR455: | G.EQ control VR. |
| 11. VR456 | Volume control VR. |



CABINET PARTS LOCATION



REPLACEMENT PARTS LIST

Important safety notice
Components identified by Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
<u>CABINET PARTS</u>			K32	RJP4G4Y	Plug (CP2/4 Pin)
K1	RUB459Z	Lever, R/P	K33	RJP6G4Y	Plug (CP3/6 Pin)
K2	RUS689Z	Spring (Cassette Compartment)	K34	RUP173Z	P.C.B. (Power Supply, Battery)
K3	RMCM1081Z	Shield Plate	K35	RJC511Z	Terminal Battery (-)
K4	RDG5739Z	Drum, Dial	K36	RJS6L3Z	Socket (CS3/6 Pin)
K5	RDG5782Z	Dumper Gear	K37	RJS3L3Z	Socket (CS1/3 Pin)
K6	XSN26+6	Screw $\phi 2.6 \times 6$ (Dial Drum M'tg)	K38	RJS4L3Z	Socket (CS2/4 Pin)
K7	XWA26B	Washer (Dial Drum M'tg)	K39	RKF758Y	Speaker Box (R) $\otimes$
K8	XTV3+12G	Screw $\phi 3 \times 12$ (P.C.B. Mechanism, etc M'tg)	K40	RGE76Y	Stopper (R) $\otimes$
K9	XTV3+40G	Screw $\phi 3 \times 40$ (Cabinet M'tg)	K41 (C)	RG1244Z	Name Plate
K10	RKK273Z	Battery Compartment $\otimes$	K42	XSN3+8S	Screw $\phi 3 \times 8$ (Telescopic Antenna M'tg)
K11	RBD398Z	Knob, Selector, Editing/B.P. Band $\otimes$	K43	XWA3B	Washer (Telescopic Antenna M'tg)
K12	RJS2L3Z	Socket (CS5/2 Pin)	K44	XWG3	Washer (Telescopic Antenna M'tg)
K13	RJT707Z	Terminal Socket	<u>ACCESSORIES</u>		
K14	RJT514Z	Lug, Earth	A1 (M)	RJA22X	Power Cord, AC Δ [For U.S.A.]
K15	XEARR225EAY	Telescopic Antenna	A1 (C)	RJA22Y	Power Cord, AC Δ [For Canada]
K16	RYFXCW26M	Rear Cabinet Ass'y $\otimes$	A2 (M)	RQX4856Z	Operating Instructions [For U.S.A.]
K16-1	RJC936Z	Terminal Battery (+/-)	A2 (C)	RQX4884Z	Operating Instructions [For Canada]
K16-2	RKX356Z	Handle $\otimes$	<u>PACKINGS</u>		
K16-3	RJT1072Z	Terminal, Antenna	P1	RPH543Z	Polyethylene Cover
K17	RYQ1XCW26M	Cassette Compartment Ass'y $\otimes$	P2	RPN9537Z	Pad
K18	RQ2XCW26M	Cassette Compartment Ass'y $\otimes$	P3 (M)	RPK2336Z	Gift Box [For U.S.A.]
K19	RDP329Z	Pointer, Dial	P3 (C)	RPK2368Z	Gift Box [For Canada]
K20	RBT283Z	Knob, Tuning $\otimes$			
K21	RYM1XCW26M	Speaker Grill Ass'y $\otimes$			
K21-1	RWY1XCW26M	Tweeter Ass'y			
K21-2	RWY2XCW26M	Ornaments Plate			
K22	EAS12P311TB	Speaker, Woofer			
K23	RYM2XCW26M	Front Cabinet Ass'y $\otimes$			
K24	RJE175Y	Speaker Cord			
K25	XTV3+18G	Screw $\phi 3 \times 18$ (Speaker Box M'tg)			
K26	XTV3+8G	Screw $\phi 3 \times 8$ (Woofer Speaker M'tg)			
K27	RHR171Z	Holder, Speaker Cord			
K28	RKF758Z	Speaker Box (L) $\otimes$			
K29	RGE76X	Stopper (L) $\otimes$			
K30	RJP2G4Y	Plug (CP5/2 Pin)			
K31	RJP3G4Y	Plug (CP1/3 Pin)			

Service Manual

Portable Stereo Component System

Radio Cassette

RX-CW26

(Black)

- Please use this manual together with the service manual for model No. RX-FW26 order No. GAD8605034C1.
- This service manual indicates the main differences between; Original RX-CW26 for made in Japan and RX-CW26 for made in Singapore.

- This model comes in two types, one manufactured in Japan and one manufactured in Singapore.
You can distinguish between models manufactured in the respective countries as explained below.

1. Models made in Japan
"Made in Japan" is stamped on the rear cabinet.
2. Models made in Singapore
"Made in Singapore" is stamped on the rear cabinet.

This is the Service Manual for the following areas.

[M]...For U.S.A.

[C]...For Canada

CHANGE OF PARTS

■ PARTS COMPARISON TABLE

Notes: 1. Important safety notice

Components identified by Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

2. The letter in round brackets in the Ref. No. column indicates the shipping destination.
(M)...For U.S.A. (C)...For Canada.
3. The letter in the circle after the part name indicates the color of the part.
Ⓚ...Black, Ⓢ...Silver
4. The letter in square brackets in the Ref. No. column indicates the type of the mechanism.
[1]...TAPE-1 (REC/PLAY DECK), [2]...TAPE-2 (PALY DECK)
5. •mark stands for that the parts are supplied in MESA.

Ref. No.	Description	Part Number		Remarks
		Models made in Japan (Original)	Models made in Singapore	
R307	Resistor, 47 k Ω	ERDS2TJ823	ERDS2TJ473T	
R338	Resistor, 22 Ω	—	ERDS2TJ220T	Added
•K16 (M)	Rear Cabinet Ass'y Ⓚ (For U.S.A.)	RYFXCW26M	RYFXCW26MKS	
•K16 (C)	Rear Cabinet Ass'y Ⓚ (For Canada)	RYFXCW26M	RYFXCW26MCK	
•K16-4 (C)	Name Plate (For Canada)	—	RGT1244XA-0	Added
•K17	Cassette Compartment Ass'y Ⓚ	RYQ1XCW26M	RYQ1XCW26MK	
•K18	Cassette Compartment Ass'y Ⓚ	RYQ2XCW26M	RYQ2XCW26MK	
•K21	Speaker Grill Ass'y Ⓚ	RYM1XCW26M	RYM1XCW26MK	
•K23	Front Cabinet Ass'y Ⓚ	RYM2XCW26M	RYM2XCW26MK	
K25	Screw (Speaker Box M'tg)	XTV3+18G	XTV3+25G	
•K28	Speaker Box (L) Ⓚ	RKF758Z	RKF758VA-0	
•K34	P.C.B. (Power Supply, Battery) Δ	RUP2173Z	RUP2173ZCU	
•K39	Speaker Box (R) Ⓚ	RKF758Y	RKF758UA-0	

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