

WM-AF62/BF62

SERVICE MANUAL

US Model
Canadian Model

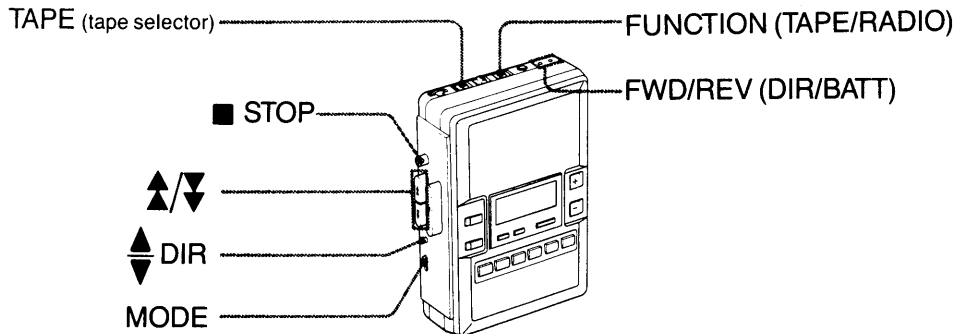
WM-AF62

AEP Model

UK Model

E Model

WM-BF62



Model Name Using Similar Mechanism	WM-AF55
Tape Transport Mechanism Type	WM-AF65MDT

SPECIFICATIONS

This instruction manual covers WM-AF62 and WM-BF62. Their differences are shown in the table below.

		Supplied accessories	FM sensitivity selector
WM-AF62	US, Canadian model	Headphones	DX/LOCAL
WM-BF62	AEP, UK model	Headphones	MONO/ST
	E model	Earphones	MONO/ST

Battery life	Approx. 9 hours on tape playback and approx. 36 hours on FM reception, using Sony alkaline batteries AM3 (N)
Dimensions	Approx. 85.7 × 121.5 × 37.4 mm (w/h/d) (3 ¹⁹ / ₃₂ × 4 ⁵⁸ / ₆₄ × 1 ¹³ / ₃₂ inches) incl. projecting parts and controls
Weight	Approx. 285g (10.1oz) incl. batteries
Accessories supplied	Belt clip (1) For WM-AF62 Stereo headphones (open-air type, 1) For WM-BF62 AEP, UK model: Stereo headphones (open-air type, 1) E model: Stereo earphones (open-air type, 1)

Radio section

Frequency range
FM: 87.5—108 MHz
AM: 531—1,602 kHz (9 kHz step)
530—1,610 kHz (10 kHz step)

Antenna
FM: Headphone cord antenna
AM: Built-in ferrite bar antenna

Tape player section

Frequency response
40—14,000 Hz (Normal)
40—16,000 Hz (CrO₂/METAL)

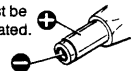
Power Output
5 mW + 5 mW 16Ω at DC operation
headphones (stereo minijack): load impedance 8—200Ω

Output
3 V DC

Power requirements
Two R6 (size AA) batteries
DC IN 3 V jack accepts:
Optional Sony EBP-500B battery case for use with size R20 (D) batteries
Optional Sony AC-D2M AC power adaptor
available in US, Canadian model for use on 120V AC, 60Hz
available in UK model for use on 240V AC, 50Hz
available in AEP model for use on 220V AC, 50Hz
available in E model for use on 120V AC, 60Hz or 220V AC, 50Hz
Optional Sony DCC-70 car battery cord for use with 12 V car battery

Note on stereo earphones
Put the cord behind your neck.
The knot cannot be moved.

Note: If a car battery cord not manufactured by Sony is used, a fuse must be installed in the battery cord and the polarity of the plug must be as illustrated.



Polarity of the Sony plug

RADIO CASSETTE PLAYER
SONY®



SECTION 1 GENERAL

1-1. RADIO RECEPTION

<p>1</p> <p>PHONES</p>	<p>2</p> <p>RADIO</p>	<p>3</p> <p>BAND AM or FM</p> <p>FM and AM can be selected alternately by pressing the appropriate button.</p>	<p>4</p> <p>TUNNING + or -</p> <table border="1"> <tr> <td>+</td> <td>For higher frequency</td> </tr> <tr> <td>-</td> <td>For lower frequency</td> </tr> </table>	+	For higher frequency	-	For lower frequency
+	For higher frequency						
-	For lower frequency						
<p>5</p> <p>VOLUME</p>	<p>To stop receiving</p> <p>TAPE (RADIO OFF)</p>	<p>To Improve FM Sensitivity</p> <table border="1"> <tr> <td data-bbox="826 763 1114 1037"> <p>WM-AF62</p> <p>DX LOCAL FM SENS</p> </td> <td data-bbox="1129 763 1425 1037"> <p>WM-BF62</p> <p>MONO ST FM MODE</p> </td> </tr> </table>		<p>WM-AF62</p> <p>DX LOCAL FM SENS</p>	<p>WM-BF62</p> <p>MONO ST FM MODE</p>		
<p>WM-AF62</p> <p>DX LOCAL FM SENS</p>	<p>WM-BF62</p> <p>MONO ST FM MODE</p>						

1-2. PRESET TUNING Presetting the Stations

<p>1 Tune in the desired station.</p> <p>FM 108.0 MHz</p>	<p>2</p> <p>MEMORY</p>	<p>3 Put the station into memory. example: To preset on buttons, for example, on the 1 button.</p> <p>MEMORY</p> <p>FM 108.0 MHz</p> <p>MEMORY indicator stops blinking. Presetting is completed.</p>
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Receiving the Preset Stations

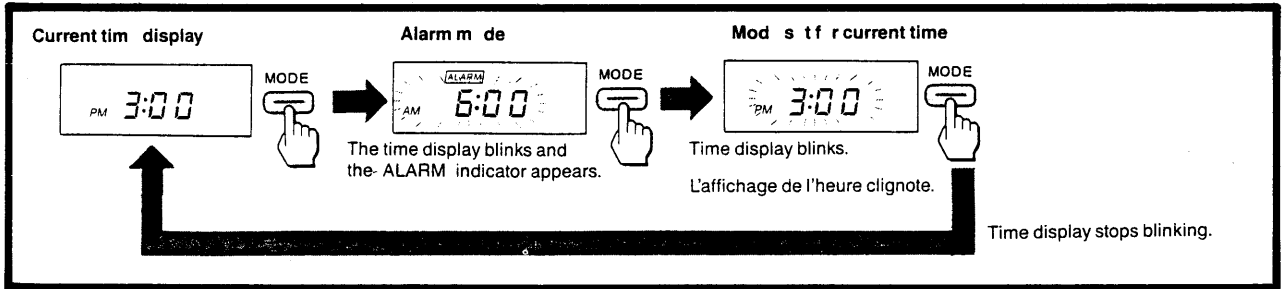
<p>1</p> <p>RADIO</p>	<p>2 Press the button you have preset the station to. example: Receive the station preset on the 1 button.</p> <p>MEMORY</p> <p>FM 108.0 MHz</p> <p>MEMORY indicator appears and goes off after 5 seconds.</p>
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Changing the AM Tuning Interval and Initialization

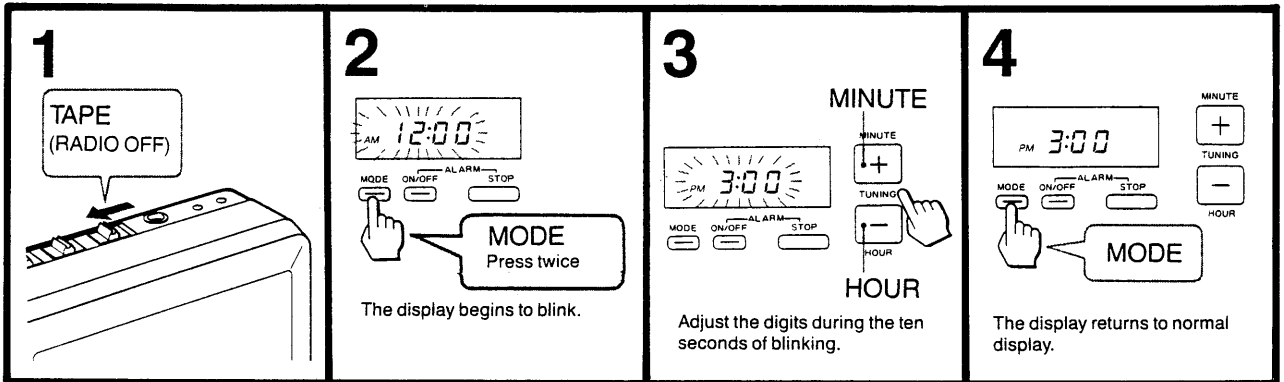
10 kHz

9 kHz

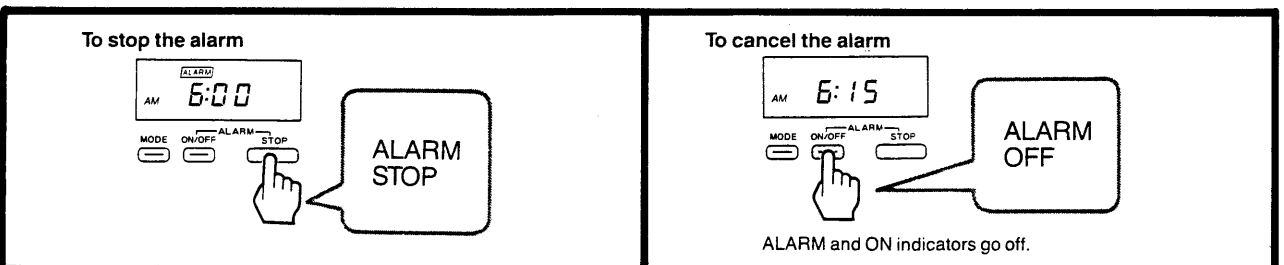
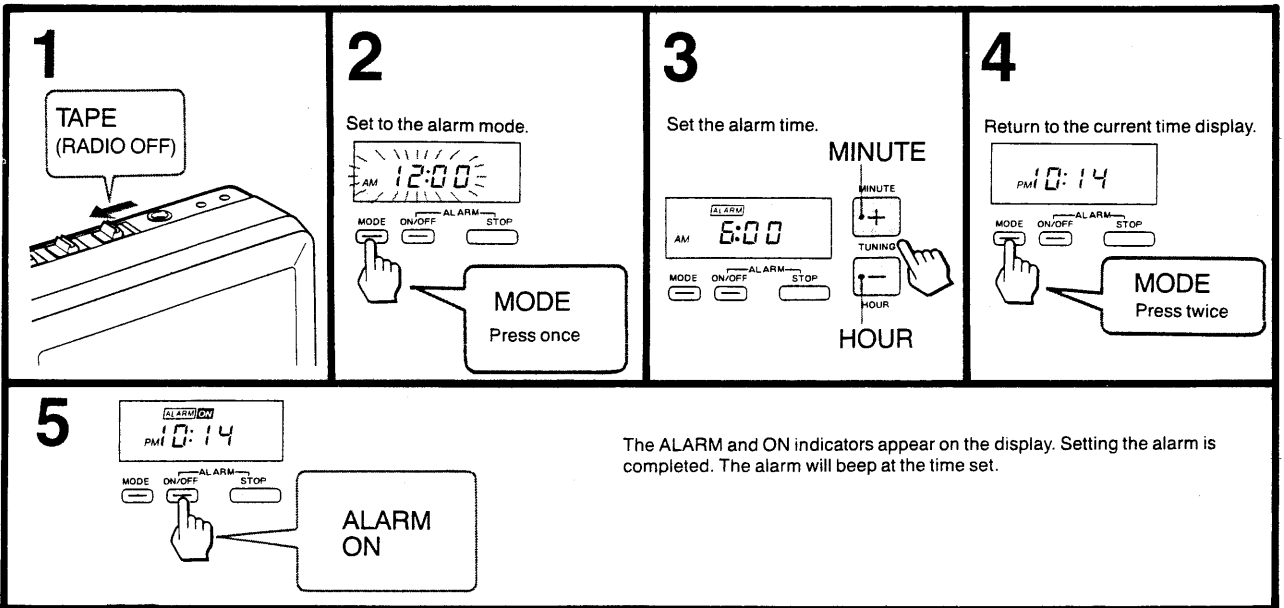
1-3. CLOCK OPERATION How to Use MODE button



Setting the Current Time



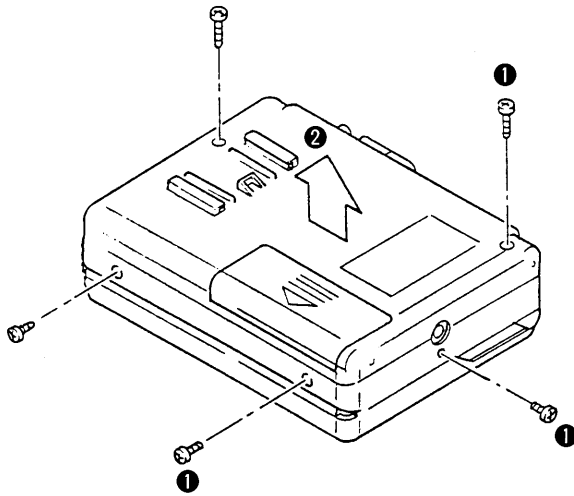
Setting the Alarm



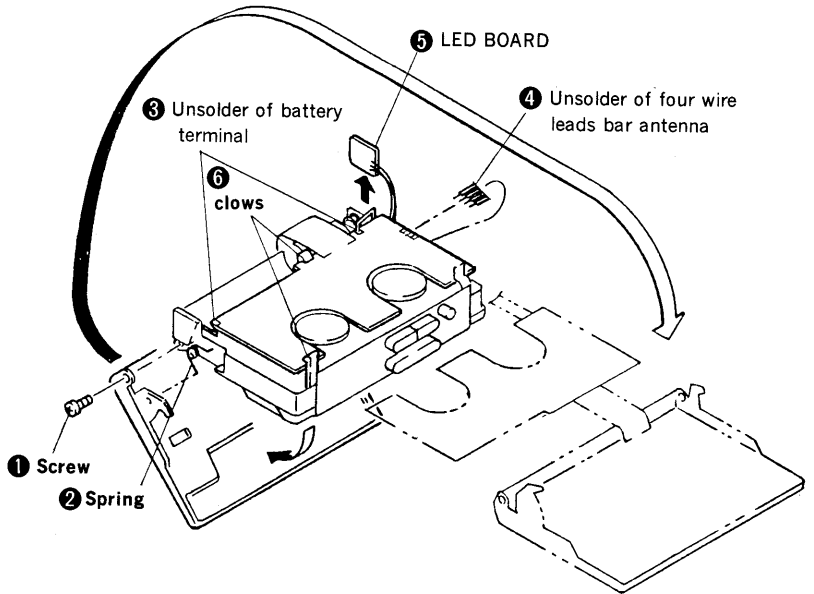
SECTION 2 DISASSEMBLY

Note: Follow the assembly procedure in the numerical over given.

Cabinet



How to open the board



SECTION 3 MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured alcohol moistened swab:

playback head	pinch roller
capstan	rubber belts
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage (2.5V) unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	22 – 55 g·cm (0.30 – 0.76 oz·inch)
FWD Back Tension		less than 3 g·cm (less than 0.04 oz·inch)
REV	CQ-102RB	22 – 55 g·cm (0.30 – 0.76 oz·inch)
REV Back Tension		less than 3 g·cm (less than 0.04 oz·inch)
FF, REW	CQ-201B	more than 60 g·cm (more than 0.83 oz·inch)

Tape Tension Measurement

Mode	Torque meter	Meter reading
FWD	CQ-403A	more than 55 g·cm (more than 0.76 oz·inch)
REV	CQ-403R	

SECTION 4 ELECTRICAL ADJUSTMENTS

CASSETTE SECTION

Playback Head Azimuth Check

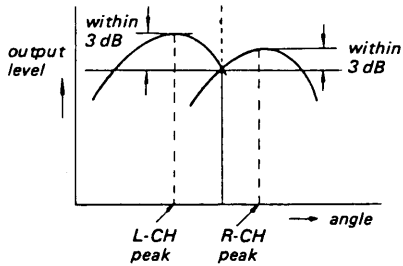
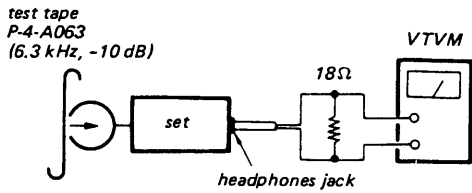
- Perform this check both in FWD and REV mode.

Note: This set is not featured the head azimuth adjustment.
When replacing the head, check the both L-ch and R-ch output levels and also those phases.

Procedure:

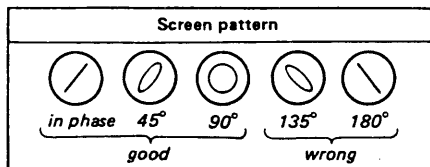
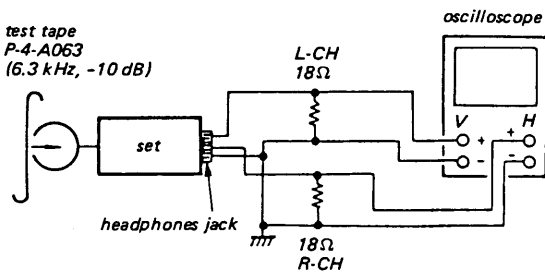
1. Level Check

Mode: playback



2. Phase Check

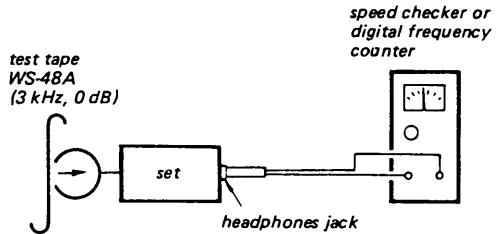
Mode: playback



Tape Speed Adjustment

Procedure:

Mode: playback

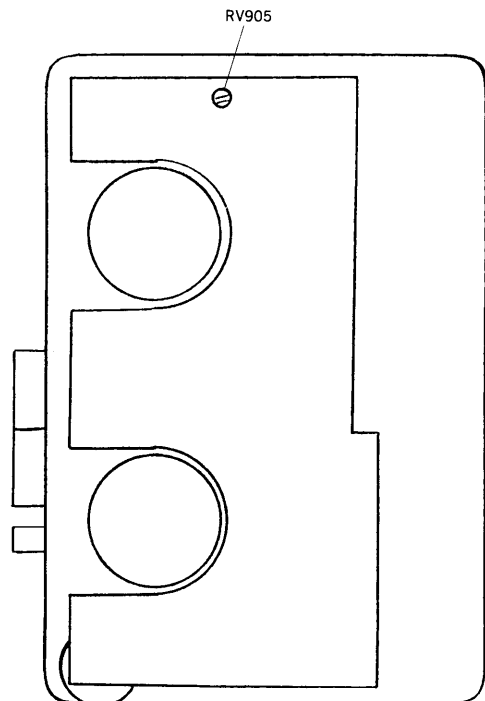


Specification:

speed checker	digital frequency counter
±1%	2,970 - 3,030 Hz

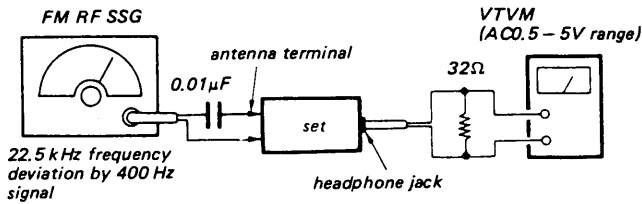
Frequency difference between the beginning and the end of the tape should be within ±2.5% (±75 Hz).

Adjustment Location:



RADIO SECTION

FM SECTION



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

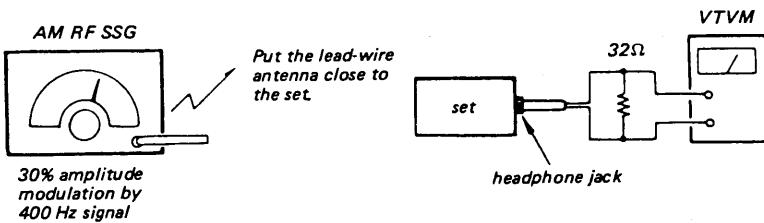
FM IF Alignment

SG and set frequency	Adjustment part	Reading on VTVM
10.7MHz	T101	maximum

FM Tracking Adjustment

SG and set frequency	Adjustment part	Reading on VTVM
90.0MHz	L001	maximum
106.0MHz	C003	

AM SECTION



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

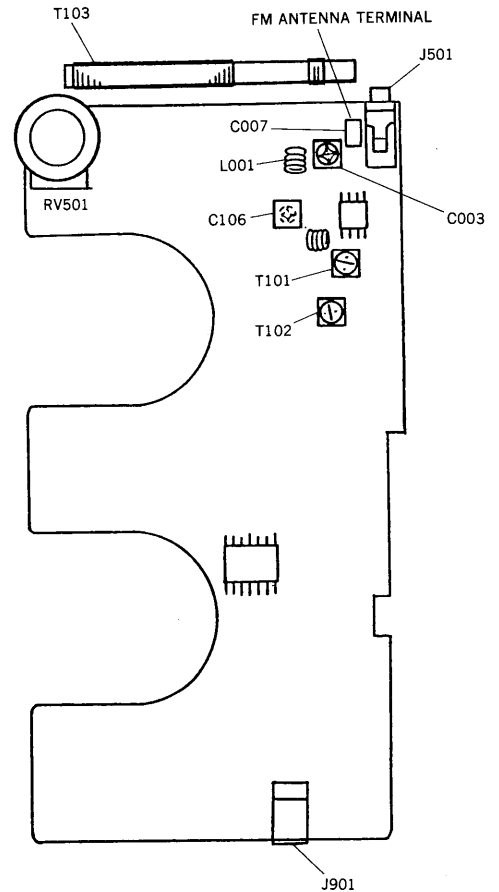
MW IF Alignment

SG and set frequency	Adjustment part	Reading on VTVM
450 kHz (SG)	T102	maximum

MW Tracking Adjustment

SG and set frequency	Adjustment part	Reading on VTVM
600 kHz	T103	maximum
1,400 kHz	C106	

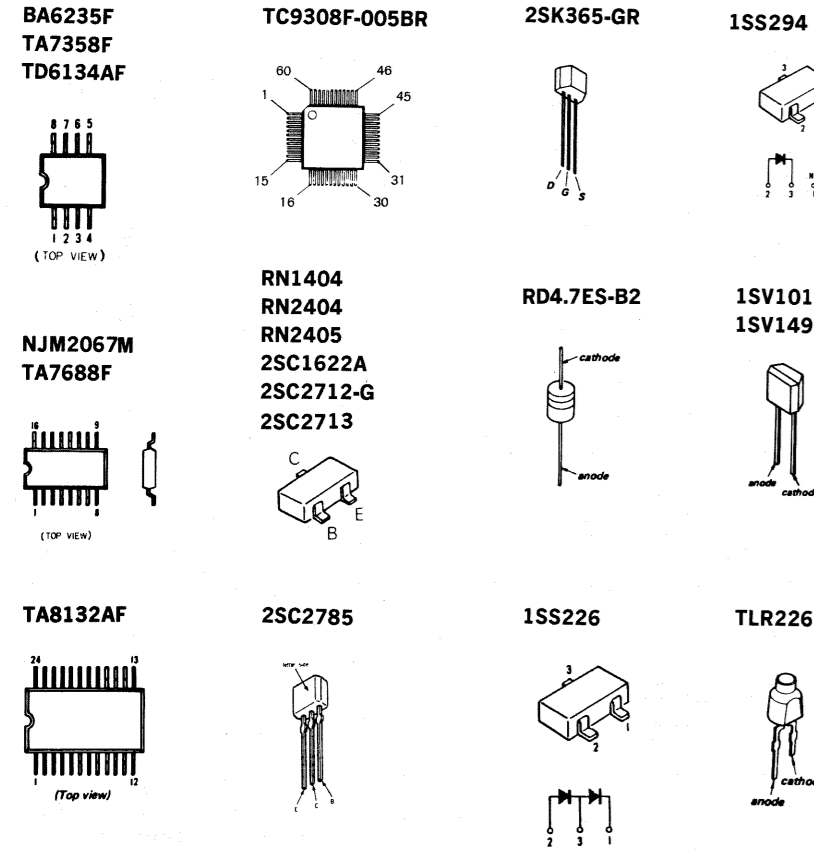
Adjustment Location: MAIN BOARD



SECTION 5
DIAGRAMS

WM-AF62/BF62 WM-AF62/BF62

5-1. SEMICONDUCTOR LEAD LAYOUTS



- Note:**
- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums. All resistors are in Ω and $\frac{1}{2}W$ or less unless otherwise specified.
 - Δ : internal component.
 - B+**: B+ Line
 - \square : adjustment for repair.
 - Total current measured with no cassette installed. Power voltage is dc 3 V and fed with regulated dc power supply from battery tantalums.
 - Voltage and waveforms are dc with respect to ground in playback mode. no mark: PB, FM (): AM
 - Voltages are taken with a VOM (input impedance 10M Ω) Voltage variations may be noted due to normal production tolerances.
 - Signal path.
 - \rightarrow : FM
 - \curvearrowright : PB

• Switches:

Ref.No.	Switch	Position
S001-1	FM SENS(AF-62)	LOCAL
	FM MODE (BF-62)	ST
S001-2	DOLBY NR	ON
S301	TAPE	NORM
S302	DIR	FWD
S702	AM STEP FREQ	9kHz
S703	KEY BOARD SWITCH	OFF
S716		
S901		
S902	TC POWER	OFF

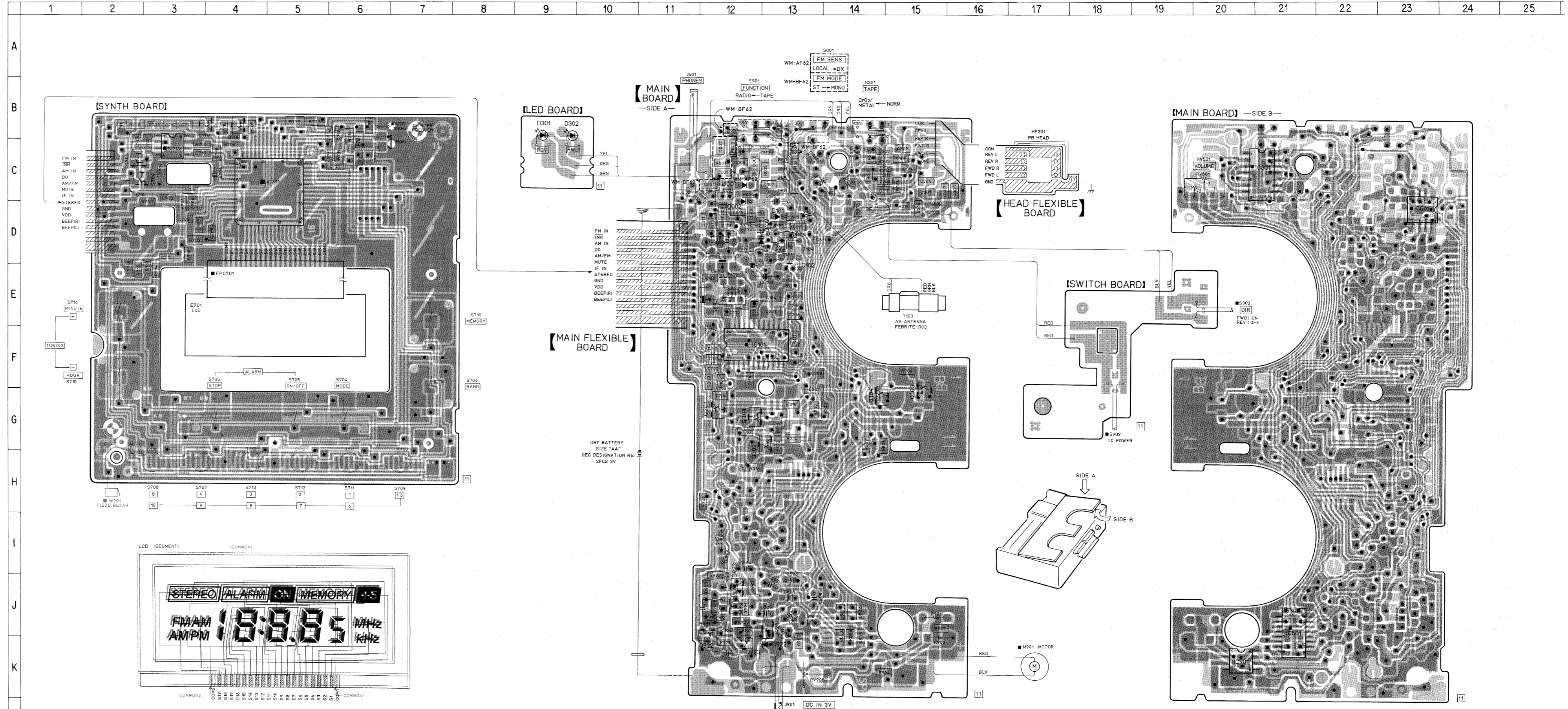
- Note:**
- : parts mounted on the conductor side.
 - : indicates side identified with part number.
 - : Through hole.
 - ▨: Pattern on the side which is seen.
 - ▩: Pattern of the rear side.

Semiconductor Location

Ref.No.	Location
D001	C-12
D002	C-12
D101	D-13
D102	D-12
D301	B-9
D302	B-9
D921	J-13
D922	K-13
D923	J-12
IC001	D-23
IC101	F-12
IC301	C-21
IC501	J-21
IC701	C-5
IC702	C-3
IC901	K-20
Q102	D-13
Q103	F-15
Q104	G-14
Q201	G-12
Q301	G-12
Q302	G-13
Q703	C-2
Q704	C-2
Q705	B-4
Q706	B-3
Q921	J-12
Q922	J-12
Q923	K-12

SEE ADDITIONAL INFORMATION

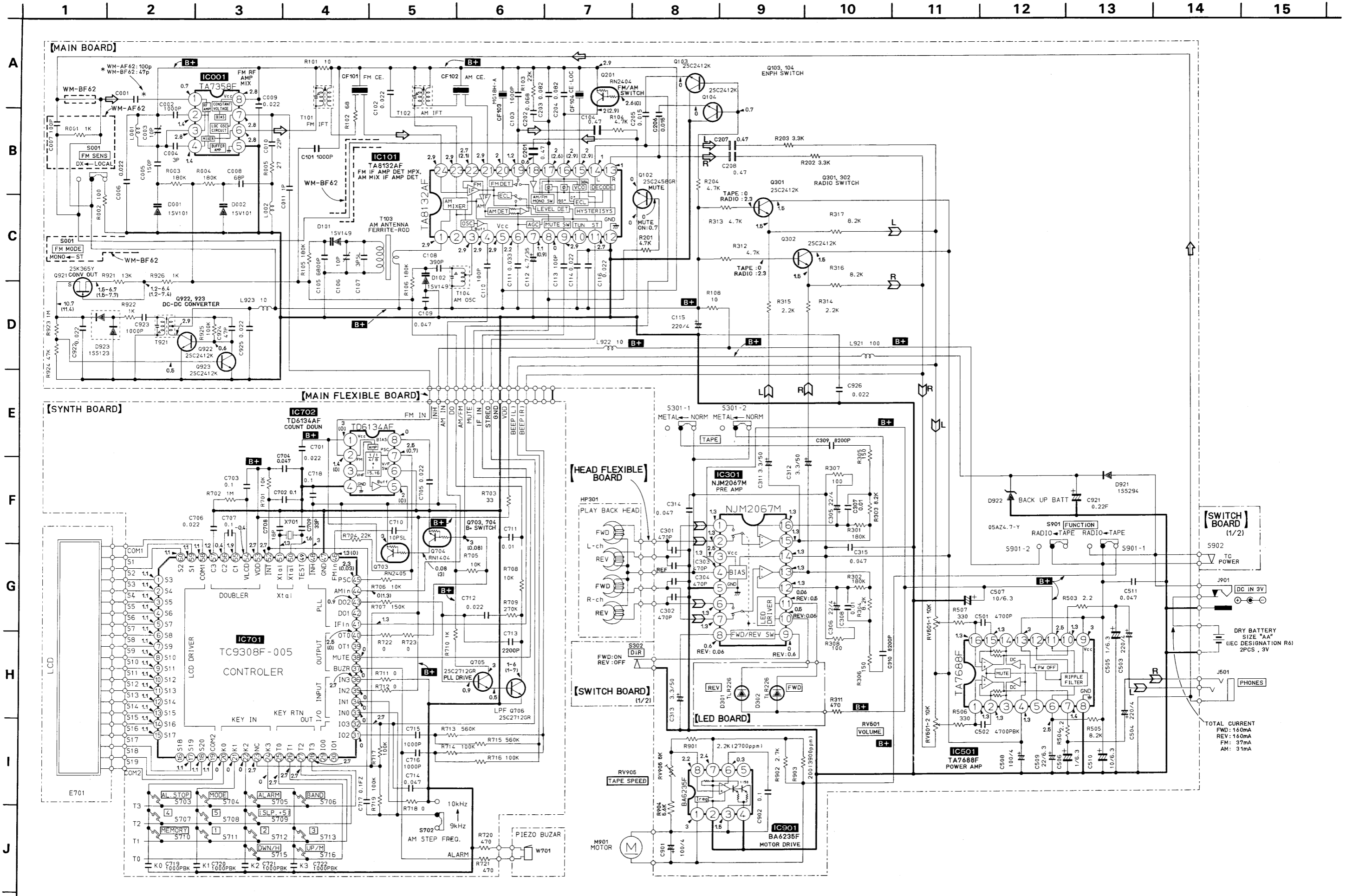
5-2. PRINTED WIRING BOARDS



WM-AF62/BF62 WM-AF62/BF62

SEE ADDITIONAL INFORMATION

5-3. SCHEMATIC DIAGRAMS



SECTION 6 EXPLODED VIEWS

NOTE:

The mechanical parts with no reference number in the exploded views are not supplied.

The construction parts of an assembled part are indicated with a collation number in the remark column.

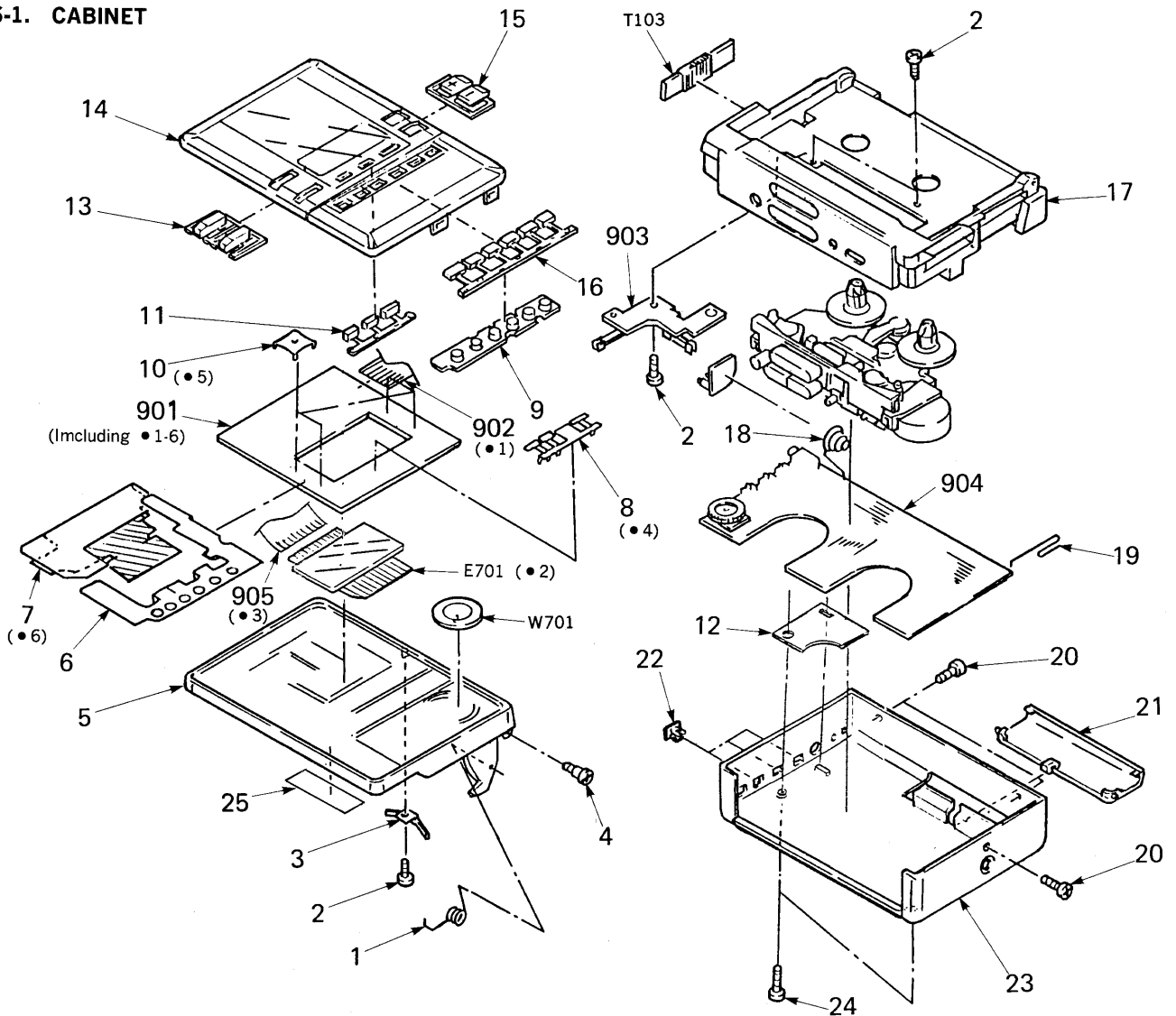
Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.

- Color Indication of Appearance Parts
Example:
(RED) ... KNOB, BALANCE (WHITE)

↑ Cabinet's Color ↑ Parts Color

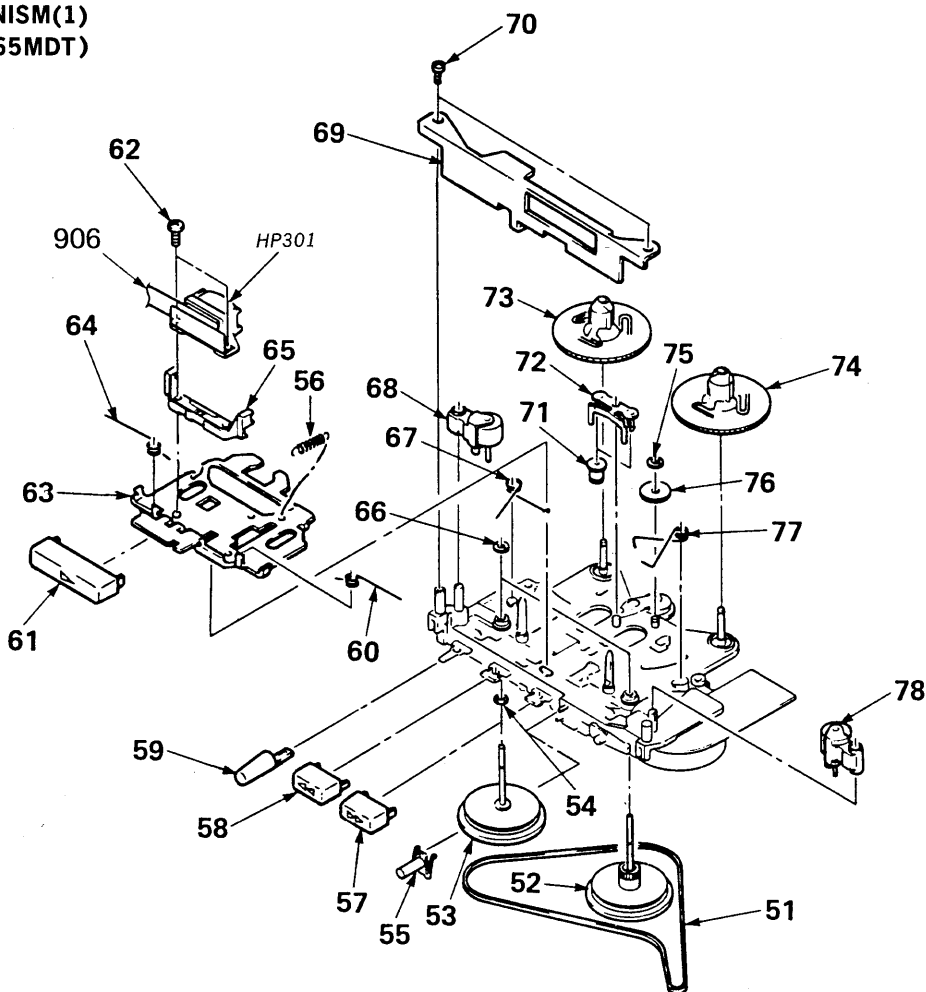
6-1. CABINET



Ref.No	Part No.	Description	Remarks
1	3-394-915-01	SPRING, TORSION	
2	3-394-921-01	SCREW, TAPPING, + HOLE	
3	3-394-922-01	SPRING	
4	3-394-912-01	SCREW, TAPPING, STEP	
5	3-394-942-01	CABINET (FRONT)	
6	3-394-923-01	SHEET, GROUND	
7	3-394-932-01	SHEET, SHIELD	
8	3-394-930-01	CONTACT, SPRING	
9	3-394-928-01	SWITCH, RUBBER	
10	3-394-931-01	SPRING	
11	3-394-926-01	BUTTON, ALARM	
12	3-352-773-01	PC. B. PLATE SERVICE	
13	3-394-934-01	BUTTON, BAND	
14	3-352-786-01	PANEL ASSY, FRONT	
15	3-394-935-01	BUTTON, TUNING	
16	3-394-936-01	BUTTON, CHANNEL	
17	3-352-779-01	(AF62)....CABINET (CENTER)	
	3-352-769-01	(BF62)....CABINET (CENTER)	

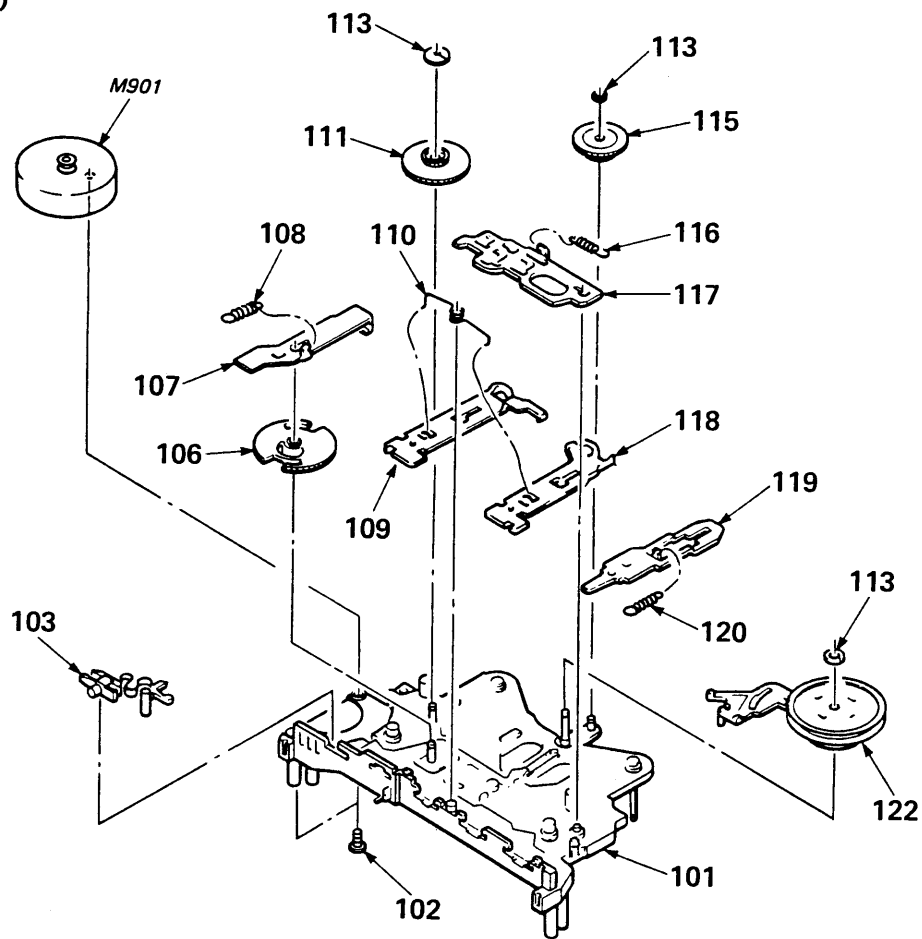
Ref.No	Part No.	Description	Remarks
18	3-394-914-01	SPRING	
19	3-394-913-01	TERMINAL (PLUS), POWER	
20	3-394-924-01	SCREW, TAPPING, + HOLE	
21	3-394-933-01	LID, BATTERY CASE	
22	3-394-916-01	KNOB, SLIDE SWITCH	
23	3-352-778-01	(AF62)....CABINET (BACK)	
23	3-352-768-01	(BF62)....CABINET (BACK)	
24	3-394-925-01	SCREW, TAPPING, + HOLE 1.7X4	
25	3-352-772-01	LABEL, SERIAL NO.	
901	A-3242-475-A	PC BOARD ASSY, SYNTHESIZER	
902	1-630-716-11	PC BOARD, MAIN FLEXIBLE	
903	1-631-021-11	PC BOARD, LEAF	
904	A-3206-498-A	(AF62)....PC BOARD ASSY, MAIN	
	A-3206-513-A	(BF62)....PC BOARD ASSY, MAIN	
905	1-568-556-01	CONNECTOR LCD FLEXIBLE	
E701	1-808-748-11	LCD	
T103	1-402-436-11	ANTENNA, FERRITE-ROD	
W701	1-529-076-11	BUZZER	

6-2. MECHANISM(1)
(WM-AF65MDT)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	3-341-267-01	BELT, CAPSTAN		66	3-321-483-11	RING, RETAINING	
52	X-3335-635-1	FLYWHEEL (T) ASSY		67	3-341-270-01	SPRING (R)	
53	X-3335-636-1	FLYWHEEL ASSY		68	X-3335-624-1	PINCH LEVER (R) ASSY	
54	3-701-437-11	WASHER (242T), TEFLON		69	3-341-762-01	HOLDER, S	
55	3-341-294-01	BUTTON (DIR)		70	3-893-942-21	SCREW (1.7 X 5), TAPPING (B)	
56	3-341-271-01	SPRING, TENSION		71	3-341-275-01	GEAR, FR	
57	3-394-918-01	BUTTON (F)		72	3-341-701-01	LEVER, FR	
58	3-394-919-01	BUTTON (R)		73	3-341-291-01	GEAR, S REEL	
59	3-394-920-01	BUTTON (STOP)		74	3-341-290-01	GEAR, T REEL	
60	3-341-276-11	SPRING (N)		75	3-341-752-01	WASHER, POLYETHYLENE (t=0.13)	
61	3-394-917-01	BUTTON (P)			3-341-752-11	WASHER, POLYETHYLENE (t=0.25)	
62	3-704-252-21	SCREW (M 1.4 X 3.8)		76	3-341-265-01	GEAR, R	
63	3-341-711-01	LEVER, PLAY		77	3-341-763-01	SPRING	
64	3-341-277-11	SPRING (R)		78	X-3335-623-1	PINCH LEVER (N) ASSY	
65	3-341-702-01	GUIDE, TAPE		HP301	1-543-523-11	HEAD, MAGNETIC (PLAY BACK)	
				906	1-623-643-11	PC BOARD, HEAD FLEXIBLE	

6-3. MECHANISM(2)
(WM-AF65MDT)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
101	A-3163-146-A	CHASSIS ASSY		113	3-341-753-01	WASHER, POLYETHYLENE (t=0.13)	
102	3-335-797-31	SCREW (M 1.4 X 3), TOOTHED LOCK			3-341-753-11	WASHER, POLYETHYLENE (t=0.25)	
103	3-341-293-01	LEVER, MODE		115	3-341-266-01	GEAR, T	
106	3-341-292-01	GEAR, CAM		116	3-341-272-01	SPRING, TENSION	
107	3-341-299-01	LEVER, DIR		117	3-341-298-01	PLATE, LOCK	
108	3-341-274-01	SPRING (POWER TENSION), TENSION		118	3-341-296-01	LEVER, REW	
109	3-341-295-01	LEVER, FF		119	3-341-297-01	LEVER, STOP	
110	3-341-268-01	SPRING		120	3-341-273-01	SPRING, TENSION	
111	3-341-289-01	GEAR, DECELERATION		122	A-3239-894-A	WHEEL ASSY, MIDWAY	
				M901	X-3346-745-1	MOTOR BLOCK, ASSY	

SECTION 7 ELECTRICAL PARTS LIST

NOTE:

Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF , PF: μF .

RESISTORS
• All resistors are in ohms.
• F: nonflammable

COILS
• MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ , for example:
UA....: μA, UPA....: μPA,
UPC....: μPC , UPD....: μPD

Ref.No	Part No.	Description				
901	A-3242-475-A	PC BOARD ASSY, SYNTHESIZER				
902	1-630-716-11	PC BOARD, MAIN FLEXIBLE				
903	1-631-021-11	PC BOARD, LEAF				
904	A-3206-498-A	(AF62)....PC BOARD ASSY, MAIN				
	A-3206-513-A	(BF62)....PC BOARD ASSY, MAIN				
905	1-568-556-11	CONNECTOR LCD FLEXIBLE				
906	1-623-643-11	PC BOARD, HEAD FLEXIBLE				
CAPACITOR						
C001	1-163-117-00	(WM-AF62).... CERAMIC CHIP	100PF	5%	50V	
C001	1-163-109-00	(WM-BF62).... CERAMIC CHIP	47PF	5%	50V	
C002	1-163-141-00	CERAMIC CHIP	1000PF	5%	50V	
C003	1-141-405-11	CAP, ADJ				
C004	1-163-086-00	CERAMIC CHIP	3PF	0.25PF	50V	
C005	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	
C006	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	
C007	1-163-117-00	(WM-AF62).... CERAMIC CHIP	100PF	5%	50V	
C008	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C009	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	
C010	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	
C011	1-163-083-00	CERAMIC CHIP	1PF	0.25PF	50V	
C101	1-163-141-00	CERAMIC CHIP	1000PF	5%	50V	
C102	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	
C103	1-163-141-00	CERAMIC CHIP	1000PF	5%	50V	
C104	1-162-637-11	CERAMIC CHIP	0.47MF		16V	
C105	1-163-019-00	CERAMIC CHIP	6800PF	10%	50V	
C106	1-141-406-11	CAP, ADJ				
C107	1-163-086-00	CERAMIC CHIP	3PF	0.25PF	50V	
C108	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	
C109	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	
C110	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C111	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V	
C112	1-126-094-11	ELECT	4.7MF	20%	25V	
C113	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C114	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	
C115	1-124-434-00	ELECT	220MF	20%	4V	
C116	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	
C201	1-162-637-11	CERAMIC CHIP	0.47MF		16V	
C202	1-163-833-00	CERAMIC CHIP	0.068MF		25V	
C203	1-163-020-00	CERAMIC CHIP	8200PF	10%	50V	
C204	1-163-020-00	CERAMIC CHIP	8200PF	10%	50V	
C205	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V	
C206	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V	
C207	1-162-637-11	CERAMIC CHIP	0.47MF		16V	
C208	1-162-637-11	CERAMIC CHIP	0.47MF		16V	
C301	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C302	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C303	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C304	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C305	1-126-153-11	ELECT	22MF	20%	6.3V	
C306	1-126-153-11	ELECT	22MF	20%	6.3V	
C307	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V	

Ref.No	Part No.	Description				
C308	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V	
C309	1-163-020-00	CERAMIC CHIP	8200PF	10%	50V	
C310	1-163-020-00	CERAMIC CHIP	8200PF	10%	50V	
C311	1-126-162-11	ELECT	3.3MF	20%	35V	
C312	1-126-162-11	ELECT	3.3MF	20%	35V	
C313	1-126-162-11	ELECT	3.3MF	20%	35V	
C314	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	
C315	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	
C501	1-163-017-00	CERAMIC CHIP	4700PF	10%	50V	
C502	1-163-017-00	CERAMIC CHIP	4700PF	10%	50V	
C503	1-124-434-00	ELECT	220MF	20%	4V	
C504	1-124-434-00	ELECT	220MF	20%	4V	
C505	1-131-347-00	TANTALUM	1MF	20%	25V	
C506	1-131-347-00	TANTALUM	1MF	20%	25V	
C507	1-131-383-11	ELECT	10MF	20%	6.3V	
C508	1-126-177-11	ELECT	100MF	20%	6.3V	
C509	1-124-598-11	ELECT	22MF	20%	25V	
C510	1-131-383-11	ELECT	10MF	20%	6.3V	
C511	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	
C701	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	
C702	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C703	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C704	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	
C705	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	
C706	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	
C707	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C708	1-163-099-00	CERAMIC CHIP	18PF	5%	50V	
C709	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	
C710	1-163-093-00	CERAMIC CHIP	10PF	5%	50V	
C711	1-163-021-00	CERAMIC CHIP	0.01MF	10%	50V	
C712	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	
C713	1-164-161-11	CERAMIC CHIP	2200PF	10%	50V	
C714	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	
C715	1-163-141-00	CERAMIC CHIP	1000PF	5%	50V	
C716	1-163-141-00	CERAMIC CHIP	1000PF	5%	50V	
C717	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C718	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C719	1-163-141-00	CERAMIC CHIP	1000PF	5%	50V	
C720	1-163-141-00	CERAMIC CHIP	1000PF	5%	50V	
C721	1-163-141-00	CERAMIC CHIP	1000PF	5%	50V	
C722	1-163-141-00	CERAMIC CHIP	1000PF	5%	50V	
C901	1-126-177-11	ELECT	100MF	20%	6.3V	
C902	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C921	1-125-486-11	CAP, DOUBLE LAYERS	0.22F		5.5V	
C922	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	
C923	1-163-141-00	CERAMIC CHIP	1000PF	5%	50V	
C924	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	
C925	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	
C926	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	
CF101	1-577-512-11	FILTER, CERAMIC				
CF102	1-277-513-11	FILTER, CERAMIC				
CF103	1-577-514-11	DISCRIMINATOR, CERAMIC				
CF104	1-577-091-11	OSCILLATOR, CRYSTAL (19kHz)				
D001	8-719-800-09	DIODE 1SV101				

Ref.No	Part No.	Description
D002	8-719-800-09	DIODE 1SV101
D101	8-719-800-50	DIODE 1SV149
D102	8-719-800-50	DIODE 1SV149
D301	8-719-212-26	DIODE TLR226
D302	8-719-212-26	DIODE TLR226
D921	8-719-820-61	DIODE 1SS294
D922	8-719-109-81	DIODE RD4.7ES-B2
D923	8-719-800-76	DIODE 1SS226
E701	1-808-748-11	LCD
HP301	1-543-523-11	HEAD, MAGNETIC (PLAY BACK)
IC001	8-759-206-37	IC TA7358F
IC101	8-759-234-29	IC TA8132F
IC301	8-759-711-00	IC NJM2067M
IC501	8-759-200-95	IC TA7688F
IC701	8-759-234-30	IC TC9308F-005BR
IC702	8-759-234-27	IC TD6134AF
IC901	8-759-939-70	IC BA6235F
J501	1-563-857-11	JACK, HEADPHONE (PHONES)
J901	1-568-503-11	JACK, EXTERNAL POWER (DC IN 3V)
L001	1-422-627-11	COIL, AIRE-CORE
L002	1-422-626-11	COIL, AIRE-CORE
L921	1-412-145-11	INDUCTOR, SMALL TYPE 100UH
L922	1-412-144-11	INDUCTOR, SMALL TYPE 10UH
L923	1-412-144-11	INDUCTOR, SMALL TYPE 10UH
M901	X-3346-745-1	MOTOR BLOCK, ASSY
Q102	8-729-119-78	TRANSISTOR 2SC2785
Q103	8-729-271-32	TRANSISTOR 2SC2713
Q104	8-729-271-32	TRANSISTOR 2SC2713
Q201	8-729-207-70	TRANSISTOR RN2404
Q301	8-729-103-16	TRANSISTOR 2SC1622A
Q302	8-729-103-16	TRANSISTOR 2SC1622A
Q703	9-988-347-01	TRANSISTOR RN2405
Q704	8-729-207-58	TRANSISTOR RN1404
Q705	8-729-271-22	TRANSISTOR 2SC2712-G
Q706	8-729-271-22	TRANSISTOR 2SC2712-G
Q921	8-729-207-05	TRANSISTOR 2SK365-GR
Q922	8-729-103-16	TRANSISTOR 2SC1622A
Q923	8-729-103-16	TRANSISTOR 2SC1622A
<u>RESISTOR</u>		
R001	1-216-049-00	(WM-AF62) METAL CHIP 1K 5% 1/10W
R002	1-216-025-00	(WM-AF62) METAL CHIP 100 5% 1/10W
R003	1-216-103-00	METAL CHIP 180K 5% 1/10W
R004	1-216-103-00	METAL CHIP 180K 5% 1/10W
R005	1-216-011-00	METAL CHIP 27 5% 1/10W
R101	1-216-001-00	METAL CHIP 10 5% 1/10W
R102	1-216-021-00	METAL CHIP 68 5% 1/10W
R103	1-216-081-00	METAL CHIP 22K 5% 1/10W
R104	1-216-065-00	METAL CHIP 4.7K 5% 1/10W
R105	1-216-103-00	METAL CHIP 180K 5% 1/10W
R106	1-216-103-00	METAL CHIP 180K 5% 1/10W
R108	1-216-001-00	METAL CHIP 10 5% 1/10W
R201	1-216-065-00	METAL CHIP 4.7K 5% 1/10W
R202	1-216-061-00	METAL CHIP 3.3K 5% 1/10W
R203	1-216-061-00	METAL CHIP 3.3K 5% 1/10W
R204	1-216-065-00	METAL CHIP 4.7K 5% 1/10W
R301	1-216-103-00	METAL CHIP 180K 5% 1/10W
R302	1-216-103-00	METAL CHIP 180K 5% 1/10W
R303	1-216-071-00	METAL CHIP 8.2K 5% 1/10W
R304	1-216-071-00	METAL CHIP 8.2K 5% 1/10W

Ref.No	Part No.	Description
R305	1-216-029-00	METAL CHIP 150 5% 1/10W
R306	1-216-029-00	METAL CHIP 150 5% 1/10W
R307	1-216-025-00	METAL CHIP 100 5% 1/10W
R308	1-216-025-00	METAL CHIP 100 5% 1/10W
R311	1-216-041-00	METAL CHIP 470 5% 1/10W
R312	1-216-065-00	METAL CHIP 4.7K 5% 1/10W
R313	1-216-065-00	METAL CHIP 4.7K 5% 1/10W
R314	1-216-057-00	METAL CHIP 2.2K 5% 1/10W
R315	1-216-057-00	METAL CHIP 2.2K 5% 1/10W
R316	1-216-071-00	METAL CHIP 8.2K 5% 1/10W
R317	1-216-071-00	METAL CHIP 8.2K 5% 1/10W
R503	1-216-298-11	METAL CHIP 2.2 5% 1/10W
R504	1-216-298-11	METAL CHIP 2.2 5% 1/10W
R505	1-216-071-00	METAL CHIP 8.2K 5% 1/10W
R506	1-216-037-00	METAL CHIP 330 5% 1/10W
R507	1-216-037-00	METAL CHIP 330 5% 1/10W
R701	1-216-073-00	METAL CHIP 10K 5% 1/10W
R702	1-216-121-00	METAL CHIP 1M 5% 1/10W
R703	1-216-013-00	METAL CHIP 33 5% 1/10W
R704	1-216-081-00	METAL CHIP 22K 5% 1/10W
R705	1-216-073-00	METAL CHIP 10K 5% 1/10W
R706	1-216-073-00	METAL CHIP 10K 5% 1/10W
R707	1-216-101-00	METAL CHIP 150K 5% 1/10W
R708	1-216-073-00	METAL CHIP 10K 5% 1/10W
R709	1-216-107-00	METAL CHIP 270K 5% 1/10W
R710	1-216-049-00	METAL CHIP 1K 5% 1/10W
R711	1-216-295-00	METAL CHIP 0 5% 1/10W
R712	1-216-295-00	METAL CHIP 0 5% 1/10W
R713	1-216-115-00	METAL CHIP 560K 5% 1/10W
R714	1-216-097-00	METAL CHIP 100K 5% 1/10W
R715	1-216-115-00	METAL CHIP 560K 5% 1/10W
R716	1-216-097-00	METAL CHIP 100K 5% 1/10W
R717	1-216-097-00	METAL CHIP 100K 5% 1/10W
R718	1-216-295-00	METAL CHIP 0 5% 1/10W
R719	1-216-097-00	METAL CHIP 100K 5% 1/10W
R720	1-216-041-00	METAL CHIP 470 5% 1/10W
R721	1-216-041-00	METAL CHIP 470 5% 1/10W
R722	1-216-295-00	METAL CHIP 0 5% 1/10W
R723	1-216-295-00	METAL CHIP 0 5% 1/10W
R901	1-808-731-11	THERMISTOR POSITIVE 2.2K
R902	1-216-059-00	METAL CHIP 2.7K 5% 1/10W
R903	1-808-732-11	THERMISTOR POSITIVE 200
R904	1-216-067-00	METAL CHIP 5.6K 5% 1/10W
R921	1-216-076-00	METAL CHIP 13K 5% 1/10W
R922	1-216-049-00	METAL CHIP 1K 5% 1/10W
R923	1-216-121-00	METAL CHIP 1M 5% 1/10W
R924	1-216-089-00	METAL CHIP 47K 5% 1/10W
R925	1-216-097-00	METAL CHIP 100K 5% 1/10W
RV501	1-238-587-11	VAR, CARBON 10K (VOLUME)
RV905	1-230-599-11	RES, ADJ, CARBON 5K (TAPE SPEED)
S001	1-571-963-11	SWITCH, SLIDE (AF62 FM SENS) (BF62 FM MODE)
S301	1-571-963-11	SWITCH, SLIDE (TAPE)
S302	1-571-943-11	SWITCH, LEAF (DIR)
S702	1-571-120-11	SWITCH, SLIDE (AM STEP)
S901	1-571-963-11	SWITCH, SLIDE (FUNCTION)
S902	1-571-943-11	SWITCH, LEAF (TC POWER)
T101	1-404-859-11	TRANSFORMER, IF (FM)
T102	1-404-860-11	TRANSFORMER, IF (AM)
T103	1-402-436-11	ANTENNA, FERRITE-ROD
T104	1-406-343-11	COIL (OSC) (AM)
T921	1-449-671-11	TRANSFORMER, DC-DC CONVERTER
W701	1-529-076-11	BUZZER
X701	1-577-464-11	VIBRATOR, CRYSTAL

Part No. Description

ACCESSORY & PACKING MATERIALS

3-352-781-01 SHEET, PROTECTION
3-352-784-01 (AF62)...BOX, INDIVIDUAL
3-352-771-01 (BF62 : E)...BOX, INDIVIDUAL
3-750-017-11 (CND, AEP, IT, UK, E)...MANUAL, INSTRUCTION
3-750-017-21 (US)...MANUAL INSTRUCTION
3-750-017-41 (AEP, IT)...MANUAL INSTRUCTION
3-394-937-01 CLIP, BELT
3-394-939-01 CUSHION
8-952-447-90 MDR-006L HEAD PHONES

- CND: Canadian model
- IT : Italian model

WM-AF62/BF62

SONY[®] SERVICE MANUAL

US Model
Canadian Model

WM-AF62

SUPPLEMENT-1

File this supplement-1 with the service manual.

AEP Model
UK Model
E Model

WM-BF62

Subject:

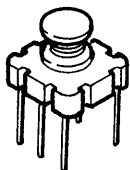
This is to give notice that made change for design.

- SYNTH board's pattern was made change sharply.
- Similar, LED and MAIN boards was made modify.
- The parts was changed as shown below.

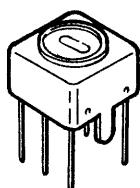
Ref. No.	Former	New
C117	not used	1-163-101-00 CERAMIC CHIP 22PF 50V
C205, 206	1-163-023-00 CERAMIC CHIP 0.015MF 50V	1-163-024-00 CERAMIC CHIP 0.018MF 50V
C508	1-126-177-11 ELECT 100MF 6.3V	1-124-434-00 ELECT 220MF 4V
R005	1-216-011-00 METAL CHIP 27 1/10W	1-216-005-00 METAL CHIP 15 1/10W
R108	1-216-001-00 METAL CHIP 10 1/10W	1-216-007-00 METAL CHIP 18 1/10W
R301, 302	1-216-103-00 METAL CHIP 180K 1/10W	1-216-115-00 METAL CHIP 560K 1/10W
R311	1-216-041-00 METAL CHIP 470 1/10W	not used (Short)
R312, 313	not used	1-216-041-00 METAL CHIP 470 1/10W
R720	1-216-041-00 METAL CHIP 470 1/10W	not used (Short)
R721	1-216-041-00 METAL CHIP 470 1/10W	1-216-049-00 METAL CHIP 1K 1/10W
R724	not used	1-216-065-00 METAL CHIP 4.7K 1/10W
R727	not used	1-216-295-00 METAL CHIP 0 1/10W
R729	not used	1-216-049-00 METAL CHIP 1K 1/10W
* T104 Refer to page 4.	1-406-343-11 COIL (OSC) AM	1-406-369-11 COIL (OSC) AM

※ Note on T104 (COIL OSC AM) Replacement.

Check form when replacing T104.



Former
(Serial No : less than 89,000)
1-406-343-11



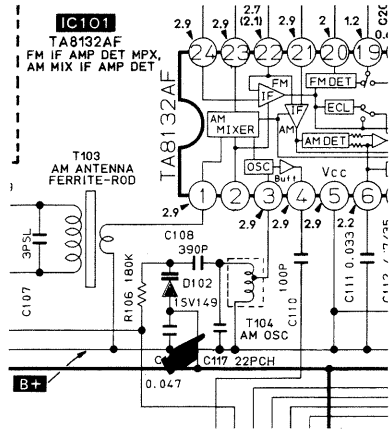
New
(Serial No : more than 89,001)
1-406-369-11

SCHEMATIC DIAGRAM

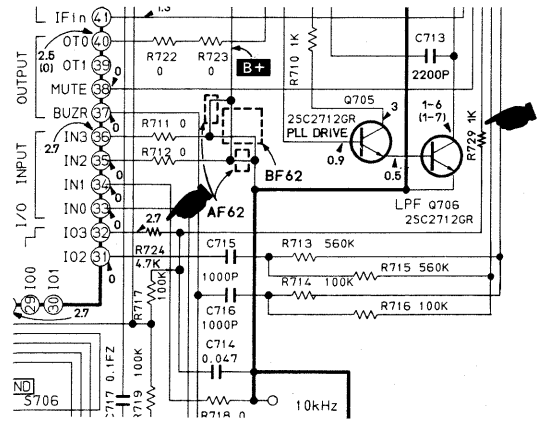
additional parts

Page 11.

LOCATION : 5-C

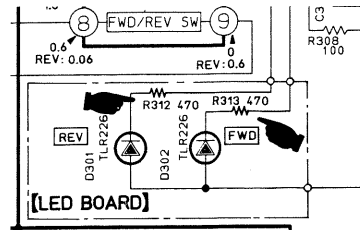


LOCATION : 5-H



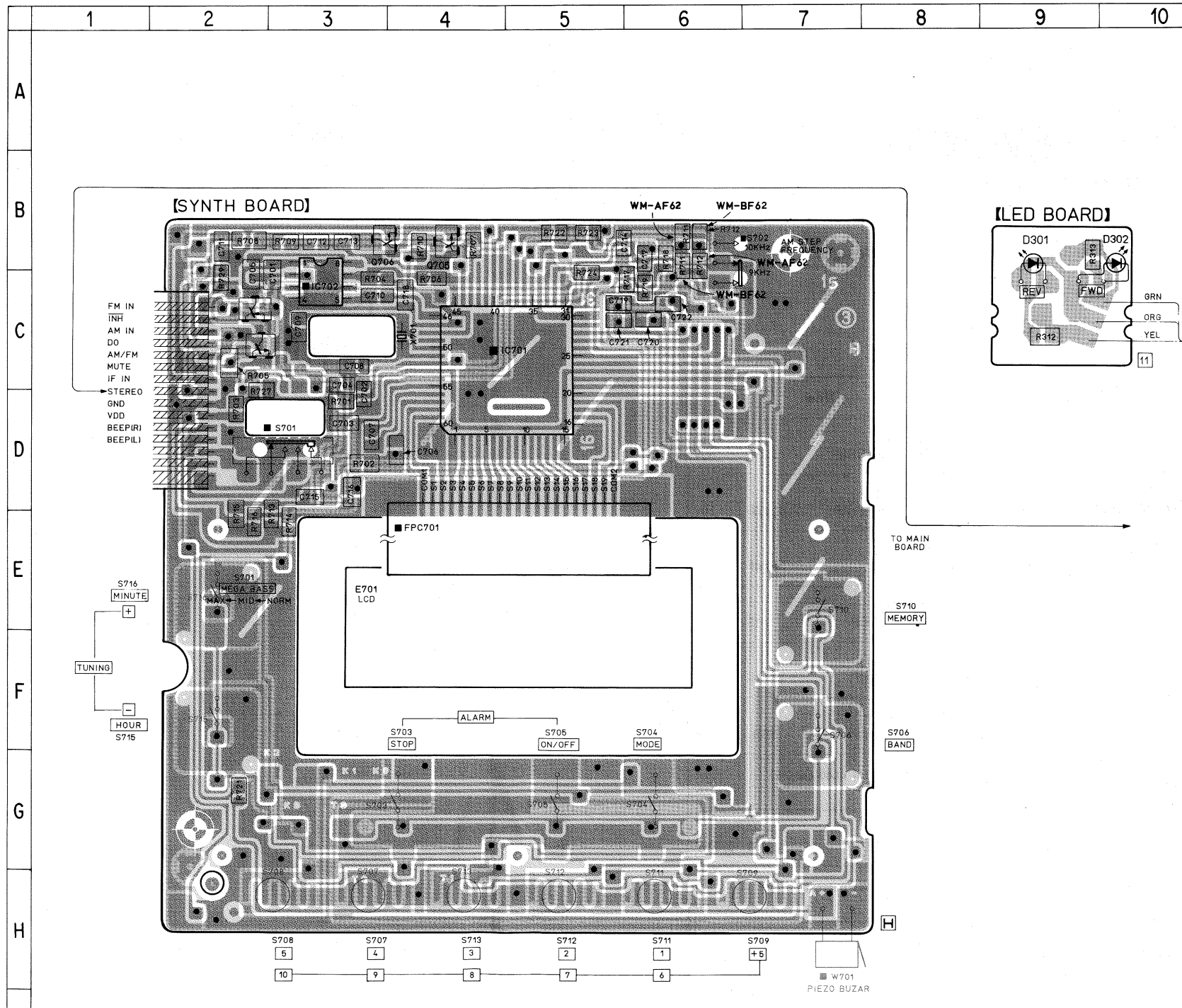
Page 12.

LOCATION : 9-H



PRINTED WIRING BOARD

SYNTH BOARD and LED BOARD have been changed.



WM-AF62/BF62

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US Model
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AEP Model
UK Model
E Model
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CORRECTION-1

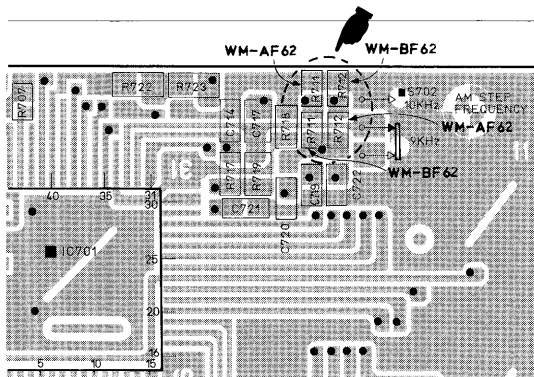
Please correct your Service Manual

 : Corrected portion.

SERVICE MANUAL SECTION 5 DIAGRAMS

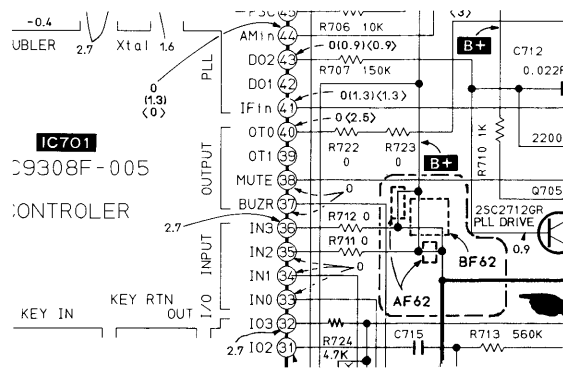
Page 8, 5-2 PRINTED WIRING BOARDS

LOCATION : 6-B



Page 11, 5-3 SCHEMATIC DIAGRAMS

LOCATION : 5-H



SECTION 6 EXPLODED VIEWS

Page	Incorrect				Correct			
	No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
13	17	3-352-779-01	(WM-AF62)... CABINET (CENTER)		17	3-394-941-41	(WM-AF62)... CABINET (CENTER)	
	17	3-352-769-01	(WM-BF62)... CABINET (CENTER)		17	3-394-941-21	(WM-BF62)... CABINET (CENTER)	
	23	3-352-778-01	(WM-AF62)... CABINET (BACK)		23	3-394-940-41	(WM-AF62)... CABINET (BACK)	
	23	3-352-768-01	(WM-BF62)... CABINET (BACK)		23	3-394-940-21	(WM-BF62)... CABINET (BACK)	

SECTION 7 ELECTRICAL PARTS LIST—ACCESSORY & PACKING MATERIALS—

Page	Incorrect				Correct			
	No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
18		3-352-784-01	(WM-AF62)... BOX, INDIVIDUAL			3-351-578-01	(WM-AF62)... BOX, INDIVIDUAL	
		3-352-771-01	(WM-BF62:E)... BOX, INDIVIDUAL			3-351-581-01	(WM-BF62)... BOX, INDIVIDUAL	

WM-AF62/BF62

SONY SERVICE MANUAL

*US Model
Canadian Model
WM-AF62*

*AEP Model
UK Model
E Model
WM-BF62*

CORRECTION- 2

Correct your service manual as shown below.

 : indicates corrected portion.

Page	INCORRECT			CORRECT	
	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Description</u>
13	905	1-568-556-11	CONNECTOR, LCD FLEXIBLE	— not supplied — They are contained with in PC BOARD ASSY, SYNTHESIZER (901).	
	E701	1-808-748-11	LCD		
16	905	1-568-556-11	CONNECTOR, LCD FLEXIBLE		
17	E701	1-808-748-11	LCD		