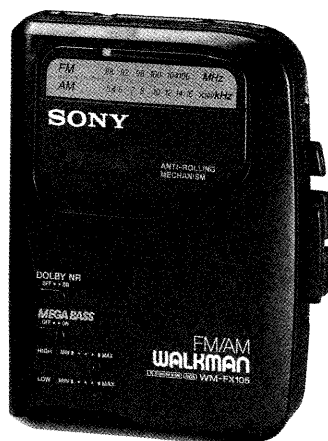


WM-FX105

SERVICE MANUAL

Canadian Model
AEP Model
E Model



Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MF-WMFX105-49

SPECIFICATIONS

Radio FM: 87.5 — 108 MHz; Italian Model
87.6 — 107.9 MHz; AEP, German, E Model
87.6 — 108 MHz; Canadian Model
65.0 — 108 MHz; East European Model
AM: 526.5 — 1606.5 kHz; Italian Model
530 — 1710 kHz; Canadian Model
531 — 1602 kHz; Other Models

Power requirements

- 3 V DC batteries R6 (AA) x 2
- External DC 3 V power sources

Battery life (approximate hours)

Sony Alkaline AM3 (N)	Sony SUM-3 (NS)
8 hrs. (playback) 30 hrs. (radio)	4 hrs. (playback) 15 hrs. (radio)

Dimensions

93.9 x 118.5 x 34.8 mm (w/h/d)
(3³/₄ x 4³/₄ x 1³/₈ in) incl. projecting parts

Mass 205 g (7.3 oz) incl. batteries

Supplied accessories

- Stereo headphones (1)
- Belt clip (1)


Your dealer may not handle some of the above listed accessories.

Please ask the dealer for detailed information.

Design and specifications are subject to change without notice.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.



RADIO CASSETTE PLAYER
SONY[®]

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SECTION 1
GENERAL

This section is extracted
from instruction manual.

VOLUME

DOLBY NR

MEGA BASS

AVLS

COZ/METAL FM ST MONO

1

2

PLAY

FM AM TAPE (RADIO OFF)

Wind rapidly
Bobinage rapide
Umspulen
Bobinado rápido
Snabbspølen
Avvolgimento rapido
Bobinagem rápida

Stop
Arrêt
Stopp
Parada
Stoppen
Stopp
Arresto
Paragem

MEGA BASS

For deep and powerful sound
Pour un son puissant et retentissant
Für kräftigeren klang
Para obtener sonido profundo y potente
Voor krachtige weergave met zware bassen
För djupt och kraftfullt ljud
Per un suono profondo e potente
Para som profundo e potente

DOLBY NR

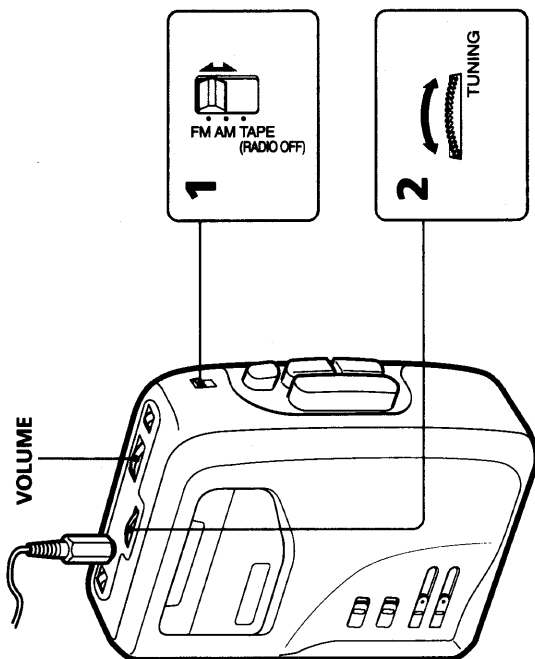
Play Dolby NR processed tapes
Cassettes enregistrées avec le système Dolby NR
Zur Wiedergabe einer Dolby-Aufzeichnung
Reproducción de cintas procesadas con el sistema de reducción de ruido Dolby NR
Afspelen van met Dolby NR ruisonderdrukking opgenomen cassettes
Band behandlade med Dolby NR brusreducering
Per riproduzione nastri trattati con il sistema Dolby NR
Leitura de fitas processadas com o sistema Dolby NR

DOLBY NR

OFF ON

HIGH LOW

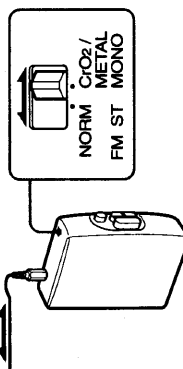
MAX MIN



Improve radio reception/Amélioration de la réception radio/Für optimalen Empfang/Mejora de la radiorecepción
Verbeteren van de radio-ontvangst/Tydligare radiomottagning/Per migliorare la ricezione radio/Para melhorar a recepção de rádio

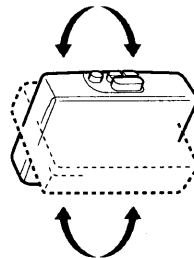
FM (UKW)

Extend the headphones cord or adjust the FM ST/MONO selector.
 Déployer le cordon du casque et régler le sélecteur FM ST/MONO.
 Extienda el cable de los auriculares o ajuste el selector FM ST/MONO.
 Estire o fio dos auscultadores ou ajuste o selector FM ST/MONO.
 Das Kopfhörerkabel ausbreiten und den FM ST/MONO-Wähler entsprechend den Empfangsbedingungen einstellen.
 Strek het hoofdtelefoon snoer uit of verschuif de FM ST/MONO schakelaar.
 Sträck ut hörlursladden eller ställ in väljaren FM ST/MONO i lämpligt läge.
 Estendere il filo delle cuffie o regolare il selettore FM ST/MONO.



AM (MW)

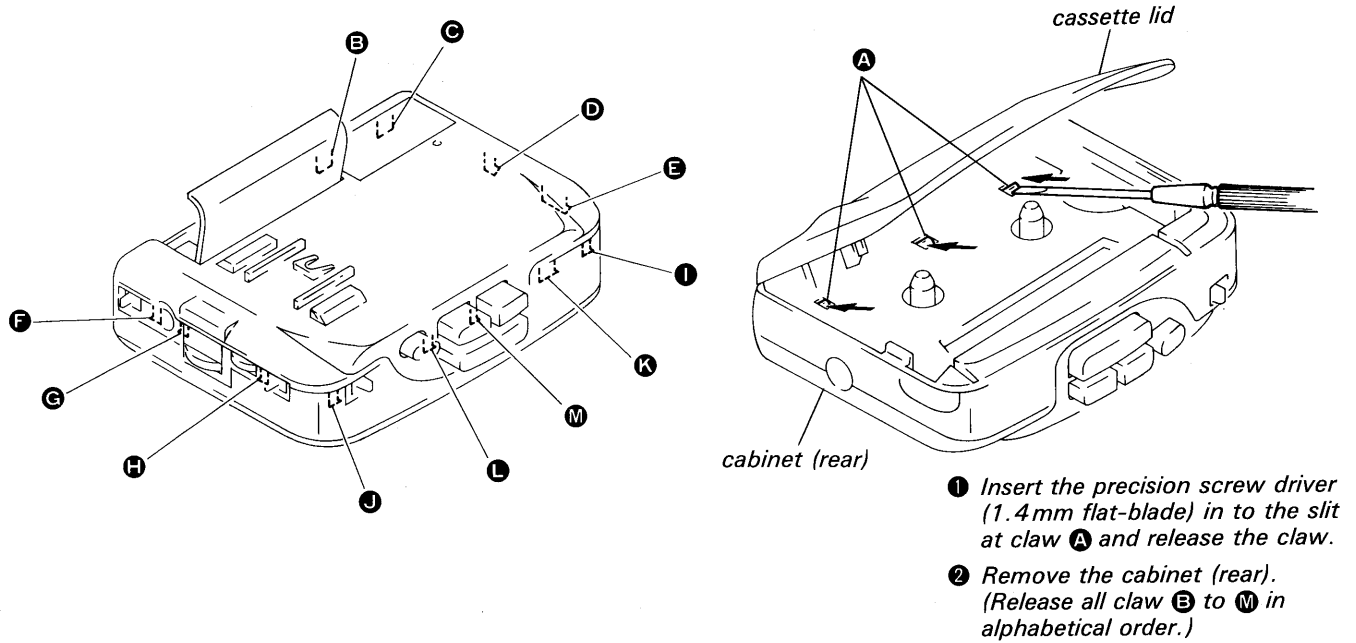
Rotate the Walkman.
 Tourner le Walkman.
 Gire el Walkman.
 Gire o Walkman.
 Den Walkman drehen.
 Verdraai de Walkman in een horizontaal vlak.
 Vrid kassettråden på det horisontella planet.
 Ruotare il Walkman.



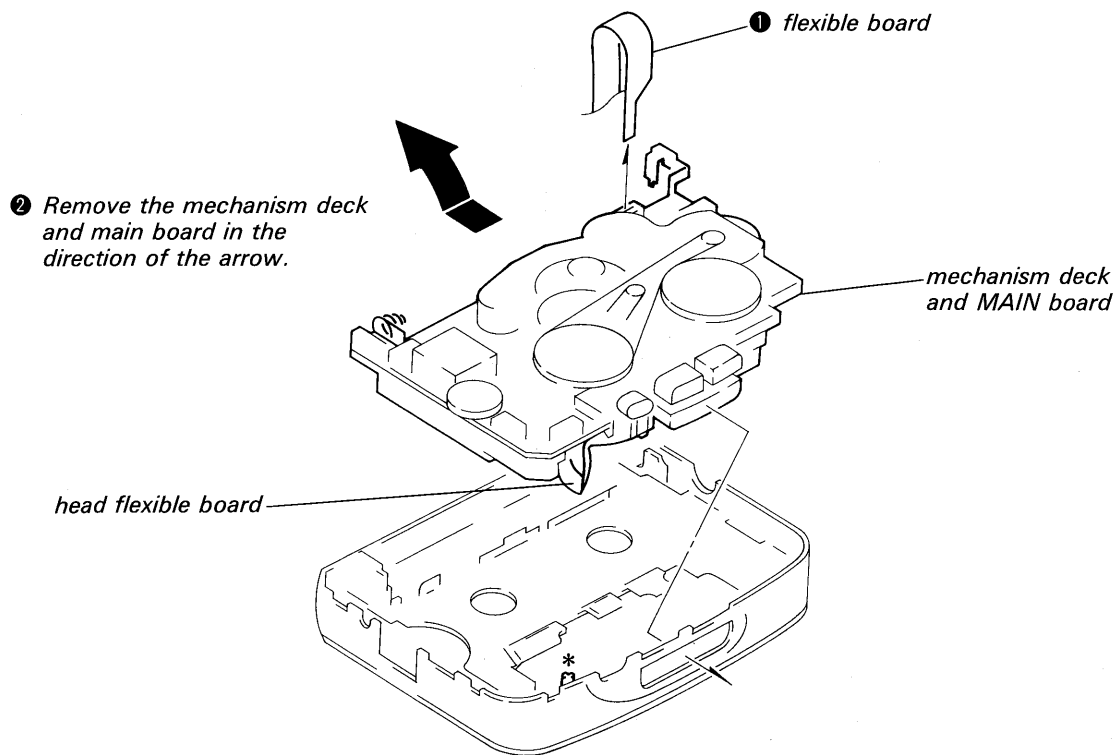
SECTION 2 DISASSEMBLY

NOTE: Follow the disassembly procedure in the numerical order given.

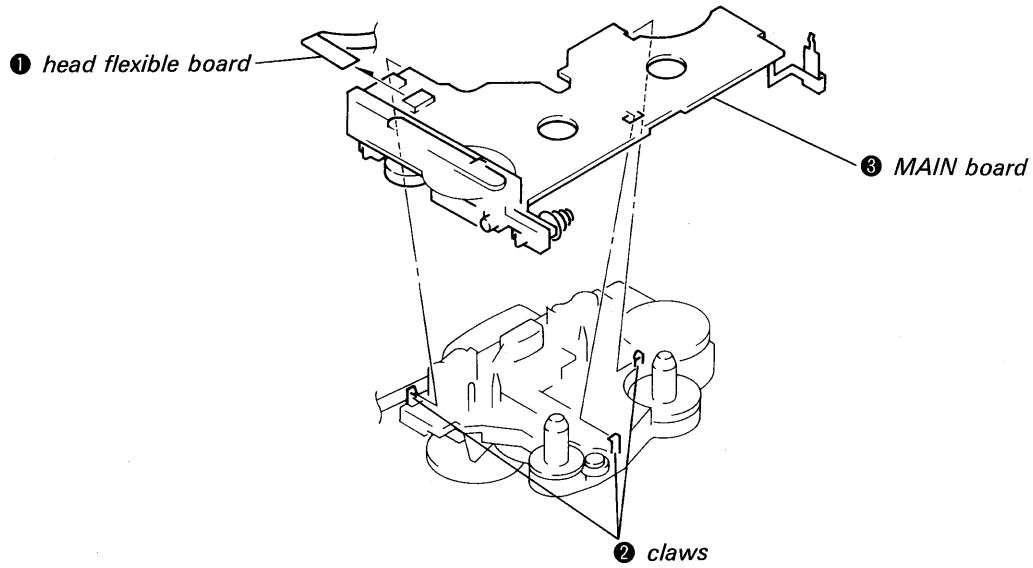
2-1. CABINET (REAR)



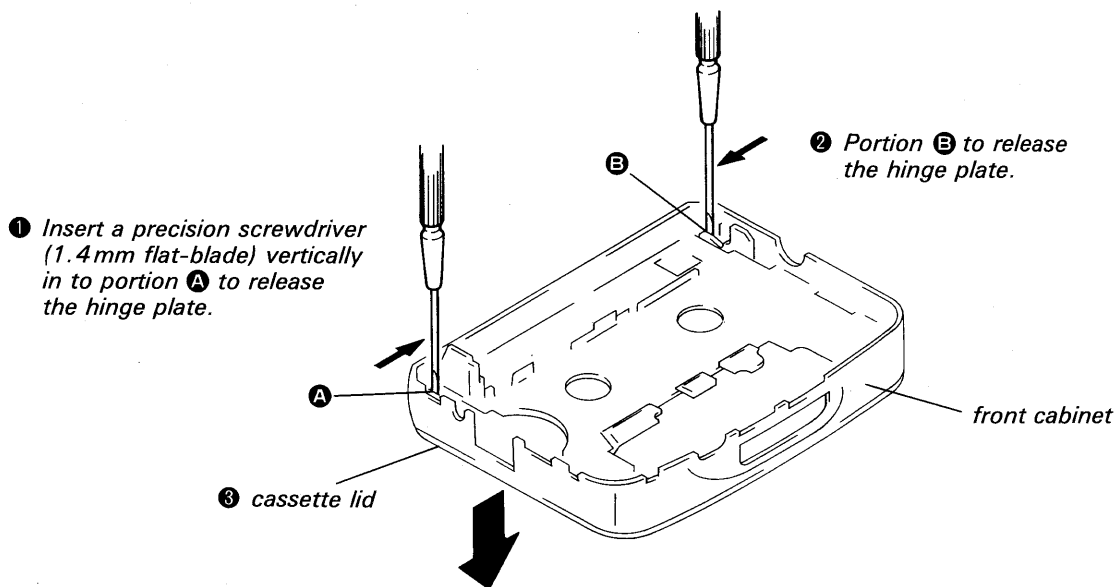
2-2. MECHANISM DECK AND MAIN BOARD



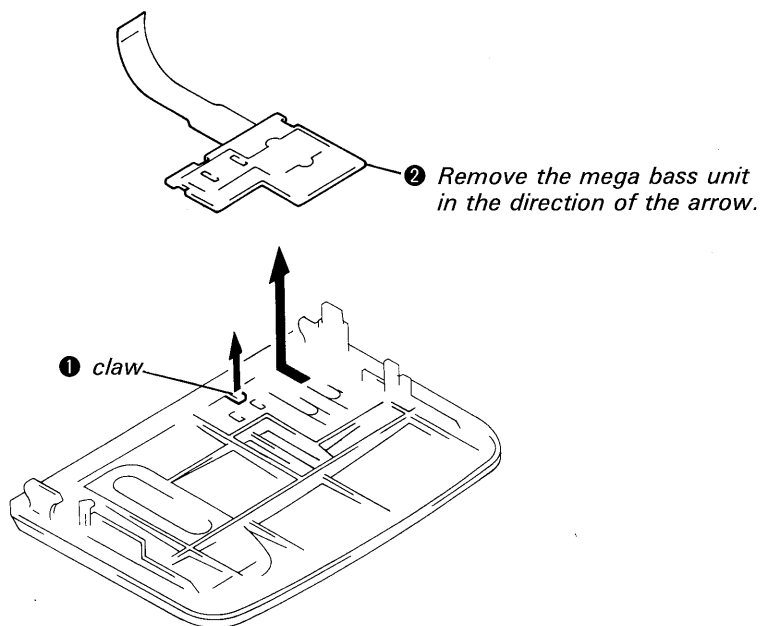
2-3.MAIN BOARD



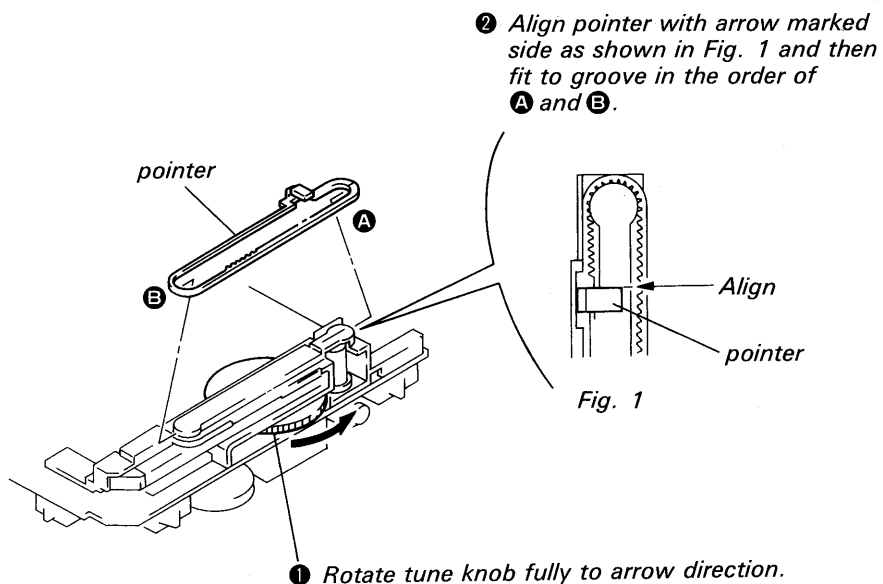
2-4. CASSETTE LID



2-5. MEGA BASS UNIT



2-6. DIAL POINTER SETTING



SECTION 3 ADJUSTMENTS

3-1. 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	20 - 42 g-cm (0.28 - 0.58 oz-inch)
FWD Back Tension		less than 2 g-cm (less than 0.03 oz-inch)
FF, REW	CQ-201B	more than 60 g-cm (more than 0.83 oz-inch)

Tape Pulling Froce Measurement

Mode	Torque meter	Meter reading
FWD	CQ-403A	more than 40g (more than 1.4 oz)

3-2. ELECTRICAL ADJUSTMENTS

Precaution

- Supplied voltage : 2.5V
- Switch and control position
 - TAPE switch : NORM
 - MEGA BASS switch : OFF
 - VOLUME control : maximum
 - AVLS switch : OFF
 - DOLBY NR switch : OFF

Tape section

- FUNCTION switch : TAPE

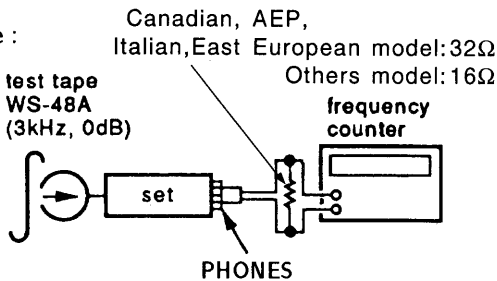
Test tape

Type	Signal	Used for
WS-48A	3kHz, 0dB	Tape Speed Adjustment

Tape speed adjustment

Tape selection switch : NORM

Procedure :

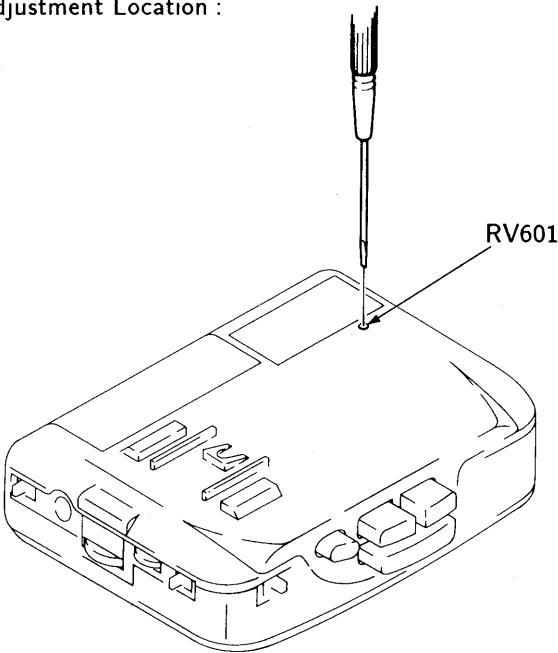


Play back WS-48A(tape center portion) in reverse mode.

Adjust the RV601 so that the frequency counter reads 2.970Hz ± 15Hz.

Frequency difference between the begining and the end of the tape should be within ±1.5%.

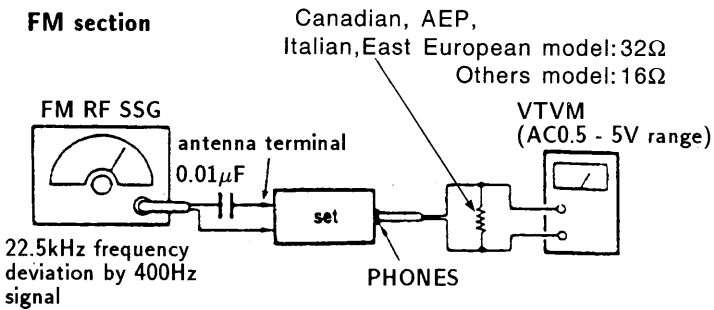
Adjustment Location :



Radio section

-FUNCTION switch : RADIO

FM section



-Repeat the procedure in each adjustment several times since L (3, 2) affects CT (3, 2) and CT (3, 2) affects L (3, 2). Both the frequency coverage and tracking adjustments should end with the final adjustment of the trimmer capacitors.

FM Frequency Coverage Adjustment

Pointer position	SG frequency	Adjustment part	Reading on VTVM
f minimum	86MHz ((64MHz)) [87.35MHz] <87.35MHz>	L3	maximum
f maximum	109.5MHz ((109.5MHz)) [108.25MHz] <107.8MHz>	CT3	

(()) : East European model, [] : Italian model, < > : Saudi Arabia model

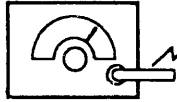
FM Tracking Adjustment

SG and set frequency	Adjustment part	Reading on VTVM
86MHz ((64MHz)) [87.35MHz] <87.35MHz>	L2	maximum
109.5MHz ((109.5MHz)) [108.25MHz] <107.8MHz>	CT2	

(()) : East European model, [] : Italian model, < > : Saudi Arabia model

AM section

AM RF SSG

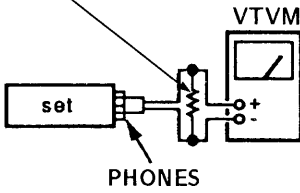


Put the lead-wire antenna close to the set

30% amplitude modulation by 400Hz signal

-Repeat the procedure in each adjustment several times since L (4, 1) affects CT (4, 1) and CT (4, 1) affects L (4, 1). Both the frequency coverage and tracking adjustments should end with the final adjustment of the trimmer capacitors.

Canadian, AEP,
Italian, East European model: 32Ω
Others model: 16Ω



AM IF Adjustment

SG and set frequency	Adjustment part	Reading on VTVM
455kHz	T1	maximum

AM Frequency Coverage Adjustment

Pointer position	SG frequency	Adjustment part	Reading on VTVM
f minimum	505kHz ((516.5kHz)) [516.5kHz]	L4	maximum
f maximum	1,750kHz ((1,631kHz)) [1,631.5kHz]	CT4	

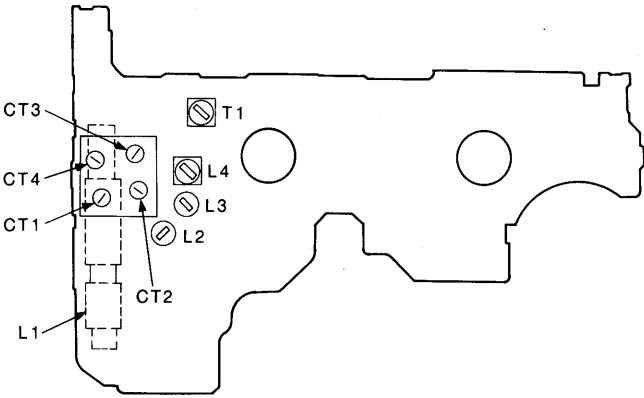
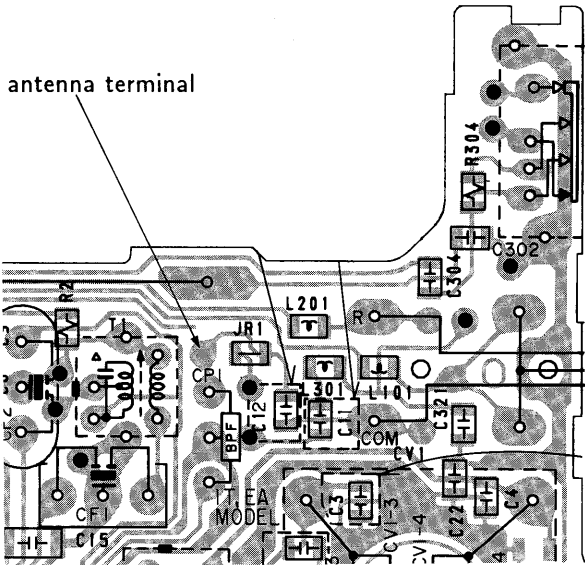
(()) : East European, Saudi Arabia model,
[] : Italian model

AM Tracking Adjustment

SG and set frequency	Adjustment part	Reading on VTVM
620kHz ((800kHz)) [800kHz]	L1	maximum
1,400kHz ((1,300kHz)) [1,300kHz]	CT1	

(()) : East European, Saudi Arabia model,
[] : Italian model

Adjustment Location : main board

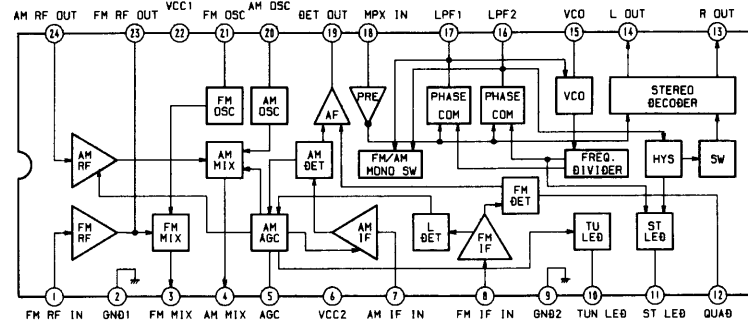


- Component Side -

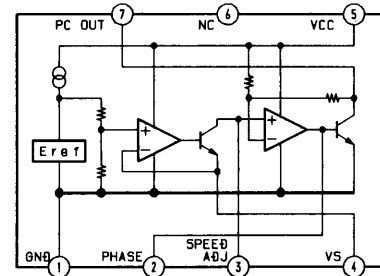
SECTION 4
DIAGRAMS

● IC Block Diagrams

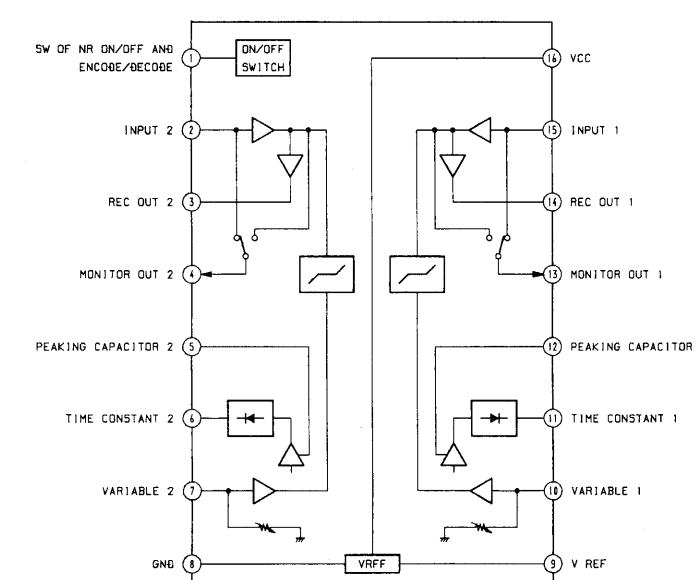
IC1 TA8122AF



IC601 MM1038BFF-T1



IC331 NJM2063AM

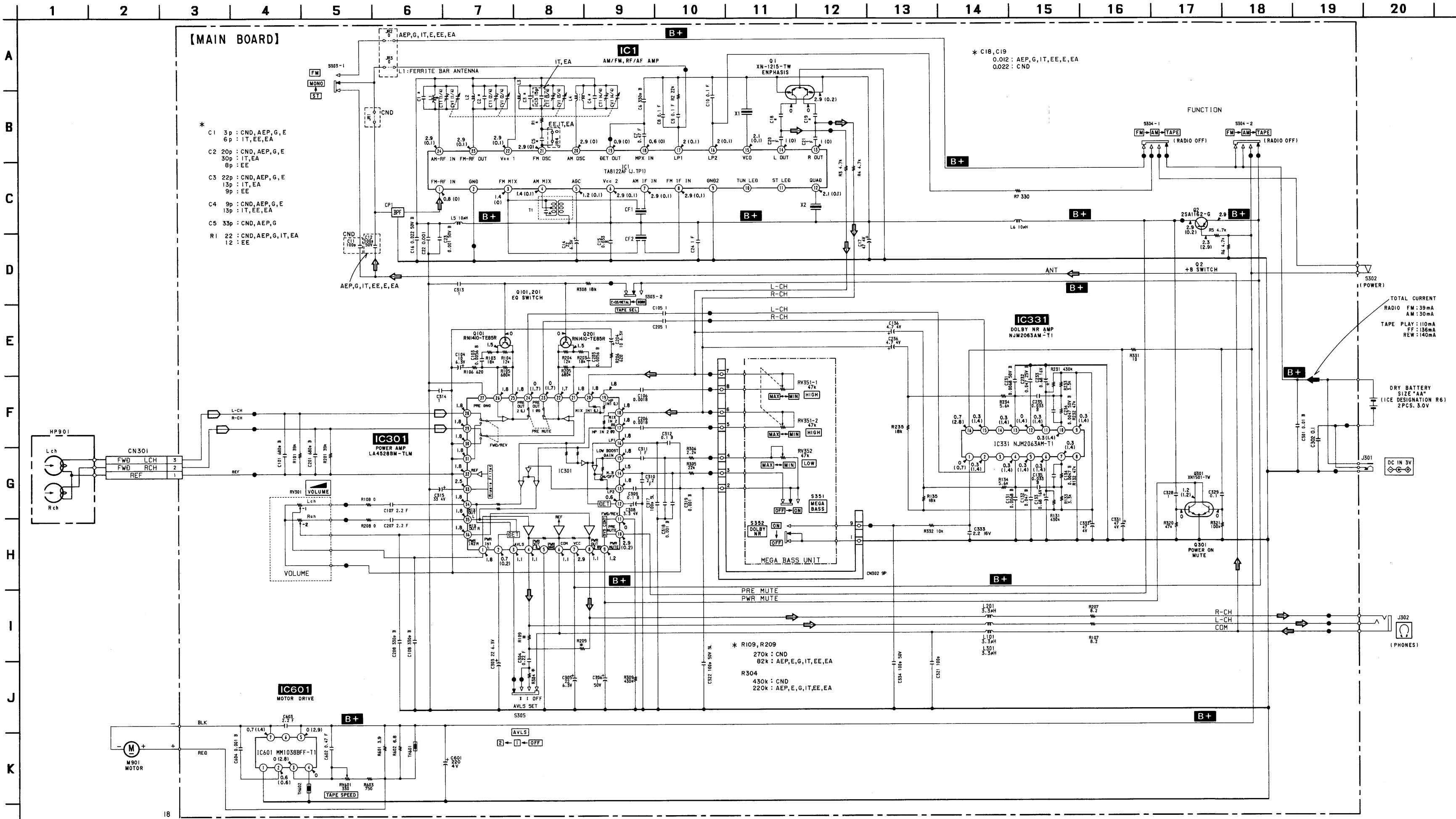


Note:

- 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 $1/4\text{W}$ or less unless otherwise specified.
- \triangle : internal component.
- **B+** : B+ Line
- Total current is measured with no cassette installed.
- Power voltage is dc 3 V and fed with regulated dc power supply from external power voltage jack.
- Voltage are dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
(): PB
- Voltages are taken with a VOM (Input Impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Signal path.
⇒ : FM □ : PB

CND : Canadian EA : Saudi Arabia
G : Germany EE : East European
IT : Italian

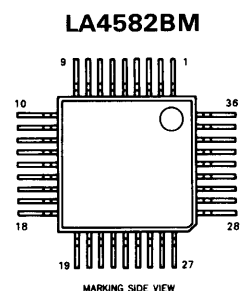
4-1. SCHEMATIC DIAGRAM





Ref. No.	Location
IC1	D - 13
IC301	D - 11
IC331	E - 6
IC601	D - 9
Q1	C - 12
Q2	E - 14
Q101	D - 12
Q201	D - 11
Q301	E - 2

● Semiconductor Lead Layout



Note:

- ○ — : parts extracted from the component side.
 - — : parts extracted from the conductor side.
 - ● : Through hole.
 - ■ : Pattern from the side
- which enables seeing.

(The other layers' patterns are not indicated.)

Caution :

Pattern face side: Parts on the pattern face side seen from
(Conductor Side) the pattern face are indicated.

Parts face side: Parts on the parts face side seen from the
(Component Side) parts face are indicated.

SECTION 5 EXPLODED VIEWS

NOTE:

- -xx,-x mean standardized parts, so they may have some differences from the original one.

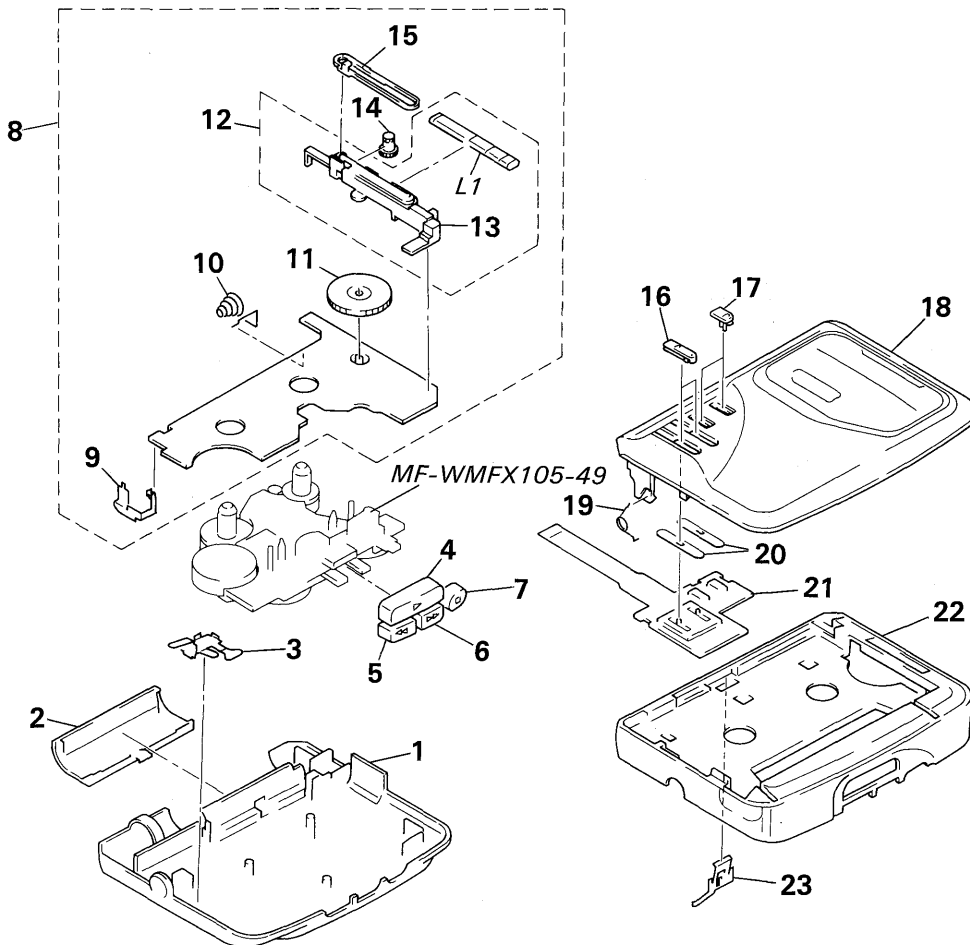
- Color Indication of Appearance Parts

Example:

KNOB, BALANCE (WHITE)...(RED)

Parts color Cabinet's color

5-1. MAIN SECTION



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

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

- Hardware (#mark) list and accessories and packing materials are given in the last of this parts list.

- Abbreviations

CND: Canadian

IT: Italian

G: German

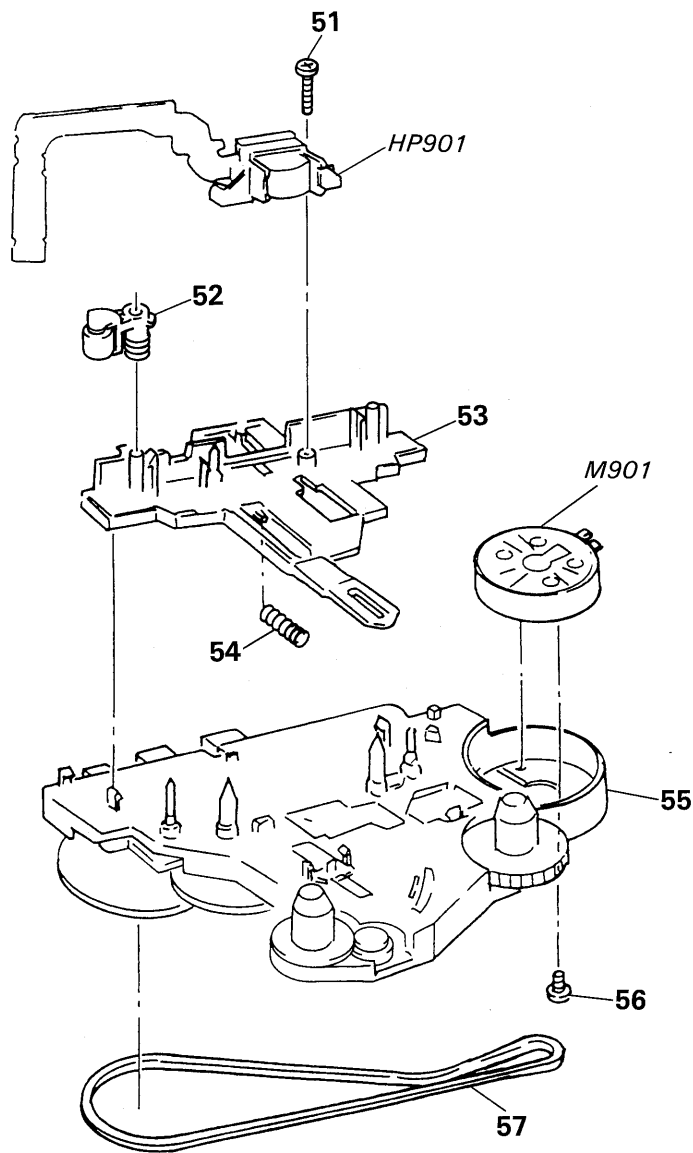
EE: East European

EA: Saudi Arabia

Ref.No.	Part No.	Description	Remark
1	3-910-921-01	CABINET (REAR) (CF-0)	
2	3-910-899-01	LID, BATT	
3	3-910-896-01	GROUND, MOTOR	
4	3-910-538-01	BUTTON (PLAY)	
5	3-910-540-01	BUTTON (REW)	
6	3-910-539-01	BUTTON (FF)	
7	3-910-541-01	BUTTON (STOP)	
8	A-3016-539-A	MAIN BOARD, COMPLETE (AEP, E, G)	
8	A-3016-540-A	MAIN BOARD, COMPLETE (IT)	
8	A-3016-542-A	MAIN BOARD, COMPLETE (CND)	
8	A-3016-548-A	MAIN BOARD, COMPLETE (EE)	
8	A-3016-600-A	MAIN BOARD, COMPLETE (EA)	
9	3-910-894-01	TERMINAL (+), BATTERY	
10	3-910-895-01	TERMINAL (-), BATTERY	
11	3-910-902-01	KNOB (TUNE)	
12	X-3368-117-1	ANTENNA SUB ASSY, BAR	

Ref.No.	Part No.	Description	Remark
*13	3-910-904-01	CHASSIS, ANTENNA	
14	3-910-897-01	GEAR (TUNE)	
15	3-910-893-01	POINTER	
16	3-910-536-01	KNOB (MB-SL)	
17	3-910-542-01	KNOB (MB-FO)	
18	X-3367-933-1	HOLDER (CF-S) SUB ASSY, CASSETTE (CND)	
18	X-3367-934-1	HOLDER (CF-S) SUB ASSY, CASSETTE (EE)	
18	X-3367-938-1	HOLDER (CF-S) SUB ASSY, CASSETTE (AEP, E, G)	
18	X-3367-957-1	HOLDER (CF-S) SUB ASSY, CASSETTE (IT, EA)	
19	3-910-903-01	SPRING, TORSION	
20	3-910-927-01	PLATE	
21	1-467-641-11	MEGA BASS UNIT (SLIDE)	
22	3-910-920-01	CABINET (FRONT) (CFO) (CND)	
22	3-910-920-11	CABINET (FRONT) (CFO) (AEP, E, G, IT, EE, EA)	
23	3-364-675-01	SPRING (CASSETTE)	
L1	1-501-665-11	ANTENNA, FERRITE-ROD (MW)	

5-2. MECHANISM SECTION
(MF-WMFX105-49)



Ref.No.	Part No.	Description	Remark
51	3-910-635-01	SCREW	
52	X-3367-902-1	ARM (N) ASSY, PINCH	
53	3-910-647-01	LEVER (PR/O), PLAY	
54	3-364-328-01	SPRING, COMPRESSION	
55	X-3368-729-1	CHASSIS ASSY	

Ref.No.	Part No.	Description	Remark
56	3-352-758-21	SCREW (M1.7), TOOTHED LOCK	
57	3-354-868-11	BELT	
HP901	1-500-116-11	HEAD, MAGNETIC (PLAYBACK)	
M901	1-698-352-11	MOTOR, DC	

SECTION 6 ELECTRICAL PARTS LIST

MAIN

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.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

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

SEMICONDUCTORS

In each case, u : μ , for example:

uA... : μ A..., uPA... : μ PA..., uPB... : μ PB...,

uPC... : μ PC..., uPD... : μ PD...

CAPACITORS

uF : μ F

COILS

uH : μ H

When indicating parts by reference number, please include the board.

Abbreviations

CND: Canadian

IT: Italian

G: German

EE: East European

EA: Saudi Arabia

Ref.No.	Part No.	Description	Remark
	A-3016-542-A	MAIN BOARD, COMPLETE (CND)	
	A-3016-539-A	MAIN BOARD, COMPLETE (AEP, E, G)	
	A-3016-540-A	MAIN BOARD, COMPLETE (IT)	
	A-3016-548-A	MAIN BOARD, COMPLETE (EE)	
	A-3016-600-A	MAIN BOARD, COMPLETE (EA)	

	3-910-895-01	TERMINAL (-), BATTERY	
	3-910-894-01	TERMINAL (+), BATTERY	
	3-910-923-01	KNOB (TUNE) (EE)	
	3-910-902-01	KNOB (TUNE) (EXCEPT EE)	
	< CAPACITOR >		
C1	1-163-086-00	CERAMIC CHIP 3PF	50V(CND, AEP, E, G)
C1	1-163-089-00	CERAMIC CHIP 6PF	50V(IT, EE, EA)
C2	1-163-100-00	CERAMIC CHIP 20PF 5%	50V(CND, AEP, E, G)
C2	1-163-104-00	CERAMIC CHIP 30PF 5%	50V(IT, EA)
C2	1-163-091-00	CERAMIC CHIP 8PF	50V(EE)
C3	1-163-101-00	CERAMIC CHIP 22PF 5%	50V(CND, AEP, E, G)
C3	1-163-096-00	CERAMIC CHIP 13PF 5%	50V(IT, EA)
C3	1-163-092-00	CERAMIC CHIP 9PF 0.25PF	50V(EE)
C4	1-163-092-00	CERAMIC CHIP 9PF 0.25PF	50V(CND, AEP, E, G)
C4	1-163-096-00	CERAMIC CHIP 13PF 5%	50V(IT, EE, EA)
C5	1-163-239-11	CERAMIC CHIP 33PF 5%	50V(CND, AEP, E, G)
C6	1-163-003-11	CERAMIC CHIP 330PF 10%	50V
C7	1-164-005-11	CERAMIC CHIP 0.47uF	25V
C8	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C9	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C10	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C11	1-163-117-00	CERAMIC CHIP 100PF 5%	50V(CND)
C12	1-163-117-00	CERAMIC CHIP 100PF 5%	50V(AEP, E, G, IT, EE, EA)
C13	1-163-097-00	CERAMIC CHIP 15PF 5%	50V(IT, EA)
C14	1-126-153-11	ELECT 22uF 20%	6.3V
C15	1-163-078-11	CERAMIC CHIP 0.033uF 10%	25V
C16	1-163-063-00	CERAMIC CHIP 0.022uF 10%	50V

Ref.No.	Part No.	Description	Remark
C17	1-126-154-11	ELECT 47uF 20%	4V
C18	1-163-022-00	CERAMIC CHIP 0.012uF 10%	50V(AEP, E, G, IT, EE, EA)
C18	1-163-037-11	CERAMIC CHIP 0.022uF 10%	25V(CND)
C19	1-163-022-00	CERAMIC CHIP 0.012uF 10%	50V(AEP, E, G, IT, EE, EA)
C19	1-163-037-11	CERAMIC CHIP 0.022uF 10%	25V(CND)
C20	1-164-346-11	CERAMIC CHIP 1uF	16V
C21	1-164-346-11	CERAMIC CHIP 1uF	16V
C22	1-163-009-11	CERAMIC CHIP 0.001uF 10%	50V
C23	1-163-009-11	CERAMIC CHIP 0.001uF 10%	50V
C24	1-164-346-11	CERAMIC CHIP 1uF	16V
C101	1-163-007-11	CERAMIC CHIP 680PF 10%	50V
C103	1-163-018-00	CERAMIC CHIP 0.0056uF 5%	50V
C104	1-126-157-11	ELECT 10uF 20%	6.3V
C105	1-164-346-11	CERAMIC CHIP 1uF	16V
C106	1-163-012-00	CERAMIC CHIP 0.0018uF 10%	50V
C107	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C108	1-163-003-11	CERAMIC CHIP 330PF 10%	50V
C131	1-163-019-00	CERAMIC CHIP 0.0068uF 10%	50V
C132	1-163-809-11	CERAMIC CHIP 0.047uF 10%	25V
C133	1-135-226-21	TANTAL. CHIP 0.68uF 10%	16V
C134	1-163-017-00	CERAMIC CHIP 0.0047uF 5%	50V
C135	1-163-989-11	CERAMIC CHIP 0.033uF 10%	25V
C136	1-135-151-21	TANTALUM CHIP 4.7uF 20%	4V
C201	1-163-007-11	CERAMIC CHIP 680PF 10%	50V
C203	1-163-018-00	CERAMIC CHIP 0.0056uF 5%	50V
C204	1-126-157-11	ELECT 10uF 20%	6.3V
C205	1-164-346-11	CERAMIC CHIP 1uF	16V
C206	1-163-012-00	CERAMIC CHIP 0.0018uF 10%	50V
C207	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C208	1-163-003-11	CERAMIC CHIP 330PF 10%	50V
C231	1-163-019-00	CERAMIC CHIP 0.0068uF 10%	50V
C232	1-163-809-11	CERAMIC CHIP 0.047uF 10%	25V
C233	1-135-226-21	TANTAL. CHIP 0.68uF 10%	16V
C234	1-163-017-00	CERAMIC CHIP 0.0047uF 5%	50V
C235	1-163-989-11	CERAMIC CHIP 0.033uF 10%	25V
C236	1-135-151-21	TANTALUM CHIP 4.7uF 20%	4V

Ref.No.	Part No.	Description	Remark
C301	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C302	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C303	1-126-153-11	ELECT 22uF	20% 6.3V
C304	1-164-222-11	CERAMIC CHIP 0.22uF	25V
C305	1-126-153-11	ELECT 22uF	20% 6.3V
C306	1-126-160-11	ELECT 1uF	20% 50V
C308	1-135-180-21	TANTALUM CHIP 3.3uF	20% 4V
C309	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C310	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C311	1-164-346-11	CERAMIC CHIP 1uF	16V
C312	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C313	1-164-346-11	CERAMIC CHIP 1uF	16V
C314	1-164-346-11	CERAMIC CHIP 1uF	16V
C315	1-135-318-11	TANTAL. CHIP 33uF	20% 4V
C317	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C318	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
C319	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
C321	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C322	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C328	1-164-346-11	CERAMIC CHIP 1uF	16V
C329	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C331	1-126-154-11	ELECT 47uF	20% 4V
C332	1-126-154-11	ELECT 47uF	20% 4V
C333	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C334	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C601	1-124-434-00	ELECT 220uF	20% 4V
C602	1-164-005-11	CERAMIC CHIP 0.47uF	25V
C603	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C604	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
< FILTER >			
CF1	1-527-870-00	FILTER	
CF2	1-577-339-11	FILTER, CERAMIC	
< CONNECTOR >			
CN301	1-569-252-21	HOUSING, CONNECTOR (FPC) 5P	
CN302	1-764-854-12	HOUSING, CONNECTOR 9P	
< COMPOSITION CIRCUIT BLOCK >			
CP1	1-236-711-21	FILTER, BAND PASS (CND, AEP, E, G, IT, EA)	
CP1	1-239-813-11	FILTER, BAND PASS (EE)	
< VARIABLE CAPACITOR >			
CV1 } CT1 }	0-755-306-00	CAP, VAR, POLYETHYLENE (TUNING) (EE)	
CV1 } CT1 }	1-151-629-31	CAP, VAR, POLYETHYLENE (TUNING) (CND, AEP, E, G, IT, EA)	

Ref.No.	Part No.	Description	Remark
< IC >			
IC1	8-759-230-39	IC TA8122AF (AM/FM, RF/AF AMP)	
IC301	8-759-257-22	IC LA4582BM	
IC331	8-759-701-07	IC NJM2063AM	
IC601	8-759-166-43	IC MM1038BFF-T1	
< JACK >			
J301	1-750-061-11	JACK, DC (POLARITY UNIFIED TYPE) (DC IN 3V)	
J302	1-565-287-11	JACK (PHONES)	
< JUMPER RESISTOR >			
JR1	1-216-295-00	METAL CHIP 0 5% 1/10W (CND)	
JR2	1-216-295-00	METAL CHIP 0 5% 1/10W (AEP, E, G, IT, EE, EA)	
JR3	1-216-295-00	METAL CHIP 0 5% 1/10W (AEP, E, G, IT, EE, EA)	
JR4	1-216-295-00	METAL CHIP 0 5% 1/10W (EE, IT, EA)	
< COIL >			
L1	1-501-665-11	ANTENNA, FERRITE-ROD (MW)	
L2	1-460-120-11	COIL (WITH CORE) (FM RF) (CND, AEP, E, G)	
L2	1-460-122-11	COIL (WITH CORE) (FM RF) (EA)	
L2	1-460-124-11	COIL (WITH CORE) (FM RF) (IT)	
L2	1-426-578-11	COIL (WITH CORE) (FM RF) (EE)	
L3	1-403-695-11	COIL (WITH CORE) (FM OSC) (EA)	
L3	1-403-696-11	COIL (WITH CORE) (FM OSC) (CND, AEP, E, G)	
L3	1-409-655-11	COIL (WITH CORE) (FM OSC) (EE)	
L3	1-403-697-11	COIL (WITH CORE) (FM OSC) (IT)	
L4	1-406-408-11	COIL (AM OSC) (CND, AEP, E, G)	
L4	1-406-409-11	COIL (AM OSC) (IT, EE, EA)	
L5	1-412-006-31	INDUCTOR CHIP 10uH	
L6	1-412-006-31	INDUCTOR CHIP 10uH	
L101	1-410-999-11	INDUCTOR CHIP 3.3uH	
L201	1-410-999-11	INDUCTOR CHIP 3.3uH	
L301	1-410-999-11	INDUCTOR CHIP 3.3uH	
< TRANSISTOR >			
Q1	8-729-403-17	TRANSISTOR XN1215	
Q2	8-729-216-22	TRANSISTOR 2SA1162-G	
Q101	8-729-207-65	TRANSISTOR RN1410	
Q201	8-729-207-65	TRANSISTOR RN1410	
Q301	8-729-402-13	TRANSISTOR XN1501	
< RESISTOR >			
R1	1-216-009-00	METAL CHIP 22 5% 1/10W (CND, AEP, E, G, IT, EA)	
R1	1-216-003-11	METAL GLAZE 12 5% 1/10W (EE)	
R2	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R3	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	

MAIN

Ref.No.	Part No.	Description	Remark
R4	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
R5	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
R6	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
R7	1-216-037-00	METAL CHIP 330 5%	1/10W
R101	1-216-689-11	METAL CHIP 39K 5%	1/10W
R103	1-216-079-00	METAL CHIP 18K 5%	1/10W
R104	1-216-075-00	METAL CHIP 12K 5%	1/10W
R105	1-216-117-00	METAL CHIP 680K 5%	1/10W
R106	1-216-044-00	METAL CHIP 620 5%	1/10W
R107	1-216-313-00	METAL CHIP 8.2 5%	1/10W
R108	1-216-295-00	METAL CHIP 0 5%	1/10W
R109	1-216-095-00	METAL CHIP 82K 5%	1/10W(AEP, E, G, IT, EE, EA)
R109	1-216-107-00	METAL CHIP 270K 5%	1/10W(CND)
R131	1-216-112-00	METAL GLAZE 430K 5%	1/10W
R132	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R133	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
R134	1-216-067-00	METAL CHIP 5.6K 5%	1/10W
R135	1-216-079-00	METAL CHIP 18K 5%	1/10W
R201	1-216-689-11	METAL CHIP 39K 0.5%	1/10W
R203	1-216-079-00	METAL CHIP 18K 5%	1/10W
R204	1-216-075-00	METAL CHIP 12K 5%	1/10W
R205	1-216-117-00	METAL CHIP 680K 5%	1/10W
R206	1-216-044-00	METAL CHIP 620 5%	1/10W
R207	1-216-313-00	METAL CHIP 8.2 5%	1/10W
R208	1-216-295-00	METAL CHIP 0 5%	1/10W
R209	1-216-107-00	METAL CHIP 270K 5%	1/10W(CND)
R209	1-216-095-00	METAL CHIP 82K 5%	1/10W(AEP, E, G, IT, EE, EA)
R231	1-216-112-00	METAL GLAZE 430K 5%	1/10W
R232	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R233	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
R234	1-216-067-00	METAL CHIP 5.6K 5%	1/10W
R235	1-216-079-00	METAL CHIP 18K 5%	1/10W
R304	1-216-112-00	METAL GLAZE 430K 5%	1/10W(CND)
R304	1-216-105-00	METAL CHIP 220K 5%	1/10W(AEP, E, G, IT, EE, EA)
R305	1-216-081-00	METAL CHIP 22K 5%	1/10W
R306	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
R308	1-216-079-00	METAL CHIP 18K 5%	1/10W
R309	1-216-112-00	METAL GLAZE 430K 5%	1/10W
R320	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R321	1-216-097-00	METAL CHIP 100K 5%	1/10W
R331	1-216-001-00	METAL CHIP 10 5%	1/10W
R332	1-216-073-00	METAL CHIP 10K 5%	1/10W
R601	1-216-306-11	METAL CHIP 3.9 5%	1/10W
R602	1-216-311-00	METAL CHIP 6.8 5%	1/10W
R603	1-216-046-00	METAL CHIP 750 5%	1/10W

Ref.No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV301	1-223-610-11	RES, VAR, CARBON 10K/10K (VOLUME)	
RV601	1-241-028-11	RES, ADJ, CARBON 330	
		< SWITCH >	
S302	1-571-986-11	SWITCH, LEAF (POWER)	
S303	1-692-298-12	SWITCH, SLIDE (TAPE SEL)	
S304	1-692-299-11	SWITCH, SLIDE (FM/AM/TAPE)	
S305	1-692-898-11	SWITCH, SLIDE (AVLS)	
		< TRANSFORMER >	
T1	1-404-949-11	TRANSFORMER, IF (CND, AEP, E, G, IT, EE, EA)	
		< THERMISTOR >	
TH601	1-809-279-11	THERMISTOR, POSITIVE	
TH602	1-809-029-11	THERMISTOR, POSITIVE	
		< VIBRATOR >	
X1	1-577-091-21	OSCILLATOR, CRYSTAL (19kHz)	
X2	1-577-341-11	FILTER, CERAMIC (10.7MHz)	

		MISCELLANEOUS	

21	1-467-641-11	MEGA BASS UNIT (SLIDE)	
HP901	1-500-116-11	HEAD, MAGNETIC (PLAYBACK)	
M901	1-698-352-11	MOTOR, DC	

		ACCESSORIES & PACKING MATERIALS	

		1-504-521-11 HEADPHONE (MDR-015) (CND)	
		1-528-179-11 BATTERY, STORAGE, NI-CD (G)	
		1-528-406-11 BATTERY CHARGER (BC-800Y) (G)	
		3-346-518-01 CLIP, BELT	
		3-758-255-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, GERMAN, DUTCH, SWEDISH, ITALIAN, PORTUGUESE) (AEP, E, IT, G)	
		3-758-255-21 MANUAL, INSTRUCTION (ENGLISH) (CND)	
		3-758-255-31 MANUAL, INSTRUCTION (FRENCH) (CND)	
		3-758-255-41 MANUAL, INSTRUCTION (ENGLISH, GERMAN, POLISH, RUSSIAN, HUNGARIAN, CZECH) (EE)	

Ref.No.	Part No.	Description	Remark
*	3-910-219-01	INDIVIDUAL CARTON (AEP,G, IT, EE)	
*	3-910-221-01	INDIVIDUAL CARTON (E, EA)	
*	3-910-312-01	CUSHION (AEP, E, G, IT, EE, EA)	
	8-953-538-90	HEADPHONE MDR-E741//K SET (AEP, E, G, IT, EE, EA)	
	X-3329-657-1	ATTACHMENT ASSY (AEP, E, G, IT, EE, EA)	

WM-FX105

SONY® SERVICE MANUAL REVISED

Discard WM-FX105 SERVICE
MANUAL, SUPPLEMENT-1 (No.
9-959-394-81) previously issued.
This service manual contains it.

Canadian Model
AEP Model
E Model

SUPPLEMENT-1R

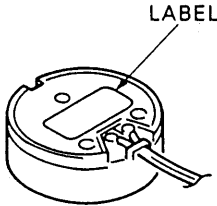
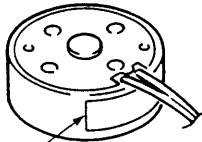
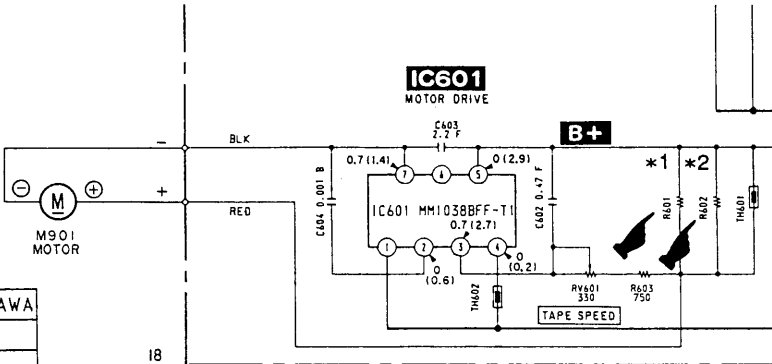
File this supplement with the service manual.

Subject : Motor change

(ECN-WM500093/WM500094)

- There are two kinds of motor (M901) for this unit. A part of circuit will be different according to a motor.

✎ : Changed portion

Page	TYPE "SANKYO"	TYPE "KATSURAGAWA"																								
	<div></div> <div>1-698-352-11 MOTOR, DC (SANKYO)</div>	<div></div> <div>1-698-398-11 MOTOR, DC (KATSURAGAWA)</div>																								
13	<div>Location : K2-6</div> <div></div> <table><thead><tr><th></th><th>SANKYO</th><th>KATSURAGAWA</th></tr></thead><tbody><tr><td>*1</td><td>3.9</td><td>3.3</td></tr><tr><td>*2</td><td>8.2</td><td>4.7</td></tr></tbody></table>			SANKYO	KATSURAGAWA	*1	3.9	3.3	*2	8.2	4.7															
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22	<table><thead><tr><th>Ref. No.</th><th>Part No.</th><th>Description</th><th>Remark</th></tr></thead><tbody><tr><td>R601</td><td>1-216-306-11</td><td>METAL CHIP</td><td>3.9 5% 1/10W</td></tr><tr><td>R602</td><td>1-216-313-00</td><td>METAL CHIP</td><td>8.2 5% 1/10W</td></tr></tbody></table>	Ref. No.	Part No.	Description	Remark	R601	1-216-306-11	METAL CHIP	3.9 5% 1/10W	R602	1-216-313-00	METAL CHIP	8.2 5% 1/10W	<table><thead><tr><th>Ref. No.</th><th>Part No.</th><th>Description</th><th>Remark</th></tr></thead><tbody><tr><td>R601</td><td>1-216-304-11</td><td>METAL CHIP</td><td>3.3 5% 1/10W</td></tr><tr><td>R602</td><td>1-216-308-00</td><td>METAL CHIP</td><td>4.7 5% 1/10W</td></tr></tbody></table>	Ref. No.	Part No.	Description	Remark	R601	1-216-304-11	METAL CHIP	3.3 5% 1/10W	R602	1-216-308-00	METAL CHIP	4.7 5% 1/10W
Ref. No.	Part No.	Description	Remark																							
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R602	1-216-313-00	METAL CHIP	8.2 5% 1/10W																							
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R602	1-216-308-00	METAL CHIP	4.7 5% 1/10W																							


WM-FX105

SONY SERVICE MANUAL

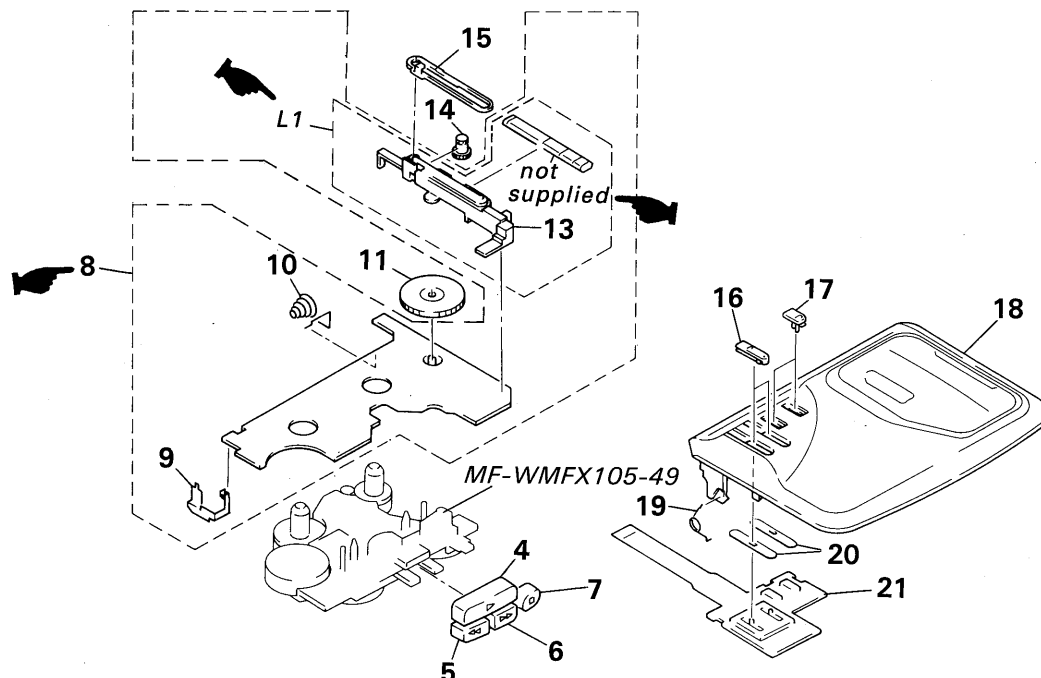
Canadian Model
AEP Model
E Model

CORRECTION-1

Correct your service manual as shown below.

 : Indicates Corrected portion

Page	INCORRECT			CORRECT		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
18	5	3-910-540-01	BUTTON (REW)	5	3-910-540- <u>11</u>	BUTTON (REW)
	6	3-910-539-01	BUTTON (FF)	6	3-910-539- <u>11</u>	BUTTON (FF)
	7	3-910-541-01	BUTTON (STOP)	7	3-910-541- <u>11</u>	BUTTON (STOP)
	12	X-3368-117-1	ANTENNA SUB ASSY, BAR	<u>L1</u>	X-3368- <u>118</u> -1	ANTENNA SUB ASSY, BAR
	L1	1-501-665-11	ANTENNA, FERRITE-ROD (MW)			not supplied
21	L1	1-501-665-11	ANTENNA, FERRITE-ROD (MW)	L1	X-3368-118-1	ANTENNA SUB ASSY, BAR



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Personal A&V Products Div.

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