WM-FX673/FX877

SERVICE MANUAL

Ver 1.0 1999. 03

Photo: WM-FX673

Canadian Model
AEP Model
UK Model
Australian Model
WM-FX673
E Model
WM-FX673/FX877
Chinese Model
Tourist Model
WM-FX877

Model Name Using Similar Mechanism	WM-EX670/EX672
Tape Transport Mechanism Type	MT-WMEX672-162

SPECIFICATIONS

Radio section

Frequency range
FM: 87.5–108 MHz
AM:530–1,710 kHz (Canadian model)
531–1,602 kHz (Except Canadian model)

Tape section

Frequency response (Dolby NR off)
Playback: 40–15,000 Hz
Output
Headphones (🎧 REMOTE) jack
Load impedance 8–300 ohms

General

Power requirements
1.5 V
Rechargeable battery
One R6 (size AA) battery
Dimensions (w/h/d)
Approx. 108.9 x 77.7 x 23.9 mm (4⅜ x 3⅛ x 31/32 inches), incl. projecting parts and controls
Mass
Approx. 145 g (5.2 oz)
Approx. 210 g (7.5 oz) incl. rechargeable battery and a cassette
Supplied accessories
Battery case (1)
Stereo headphones or Stereo earphones with remote control (1)
Battery charger (1)
AC plug adaptor (1) (except for European, Australian, Saudi Arabian, Chinese, Hong Kong, U.S.A., Canadian, and Korean model)
Rechargeable battery (NC-6WM, 1.2 V, 600 mAh, Ni-Cd) (1)
Rechargeable battery carrying case (1)
Carrying pouch (1)

Design and specifications are subject to change without notice.

Battery life (Approx. hours)

	(EIAJ*)
Sony alkaline LR6 (SG)	
Tape playback	36
Radio reception	32
Rechargeable battery (NC-6WM)	
Tape playback	10
Radio reception	10
Sony alkaline LR6 (SG) and Rechargeable NC-6WM	
Tape playback	45
Radio reception	42

* Measured value by the standard of EIAJ (Electronic Industries Association of Japan). (Using a Sony HF series cassette tape)

Note
• The battery life may shorten depending on the operation of the unit.

MICROFILM

RADIO CASSETTE PLAYER

SONY®

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Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
SERVICING NOTES

This set detects the rotation of the idler gear (A) (side S) using the PH1 (photo reflector). The PH1 is mounted on the MAIN board, therefore the idler gear (A) (side S) cannot be detected with the MAIN board removed. As a result, the motor (M601) cannot be controlled, causing malfunction.
Further, the DIRECTION switch (S1) is also mounted on the MAIN board, and with the board removed, the mechanism position cannot be detected and the operation is not changed over.
Therefor, when the voltage check is executed with the MAIN board removed, follow the procedure provided below.

1. Setting
(1) Refer to "3. DISASSEMBLY", and remove the MAIN board.
(2) Connect the MAIN board to the motor (M601) and the plunger (PM901) using jumper wires. These can be connected easily with the use of the extension tool (Part No. 1-769-143-11) (ten in one set).
(3) Short the TAPE DETECT switch (S901-1) terminals and the ATS switch (S901-2) terminals.
(4) Connect the AF oscillator to the Q15-1 (COLLECTOR) and the TP23 (GND).
(5) Supply 1.3 V to the battery terminals using the regulated power supply.

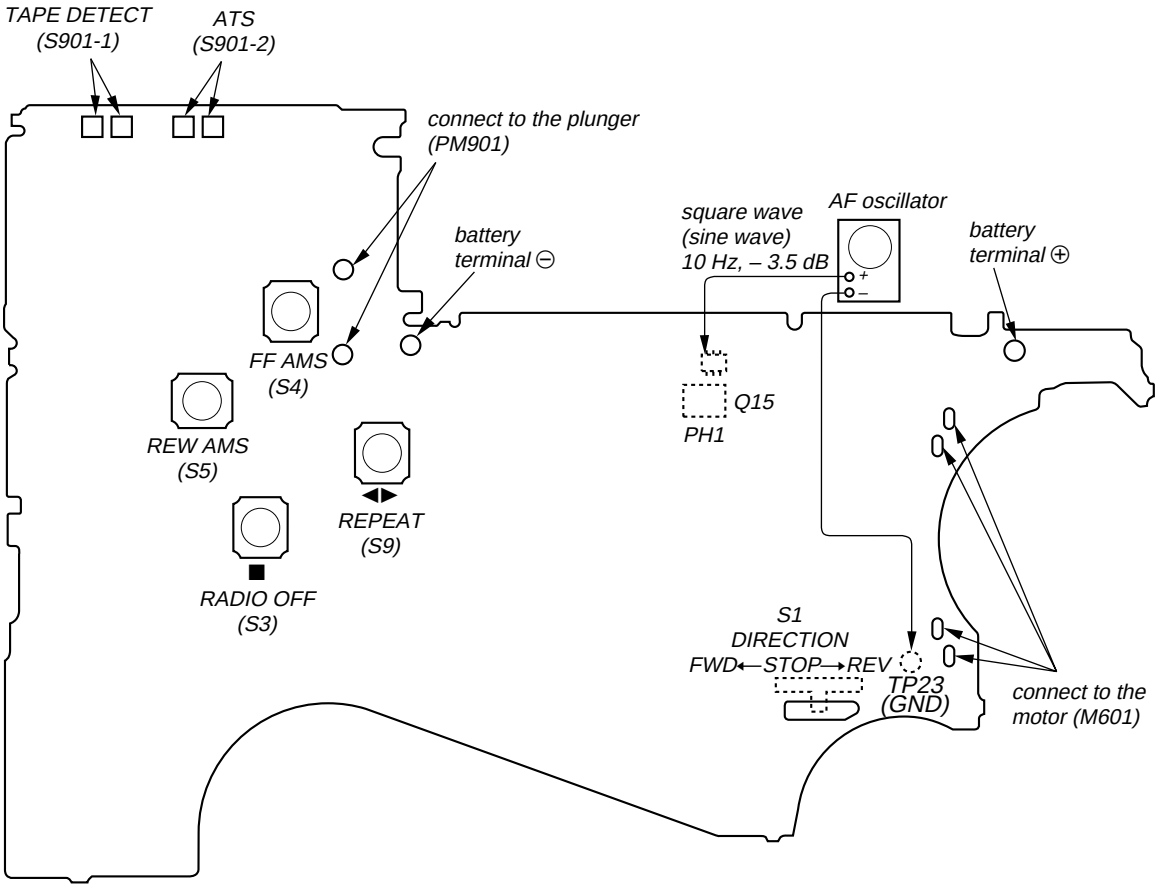
2. Preset state
To set the PLAY, FF, REW modes, the preset state must be set.
(1) Check that the slider (NR) and the DIRECTION switch (S1) are set to the center position. If not, set the preset state as follow.
(2) Move the DIRECTION switch (S1) to the side, which the slider (NR) is facing.
(3) The slider (NR) will move when the regulated power supply switch is set to OFF once and then set to ON. Move the DIRECTION switch (S1) according to this timing and set to the center position.

3. FF, REW modes
(1) Check that the preset state is set.
(2) Input the square wave or sine wave to the Q15-1 (COLLECTOR) and the TP23 (GND).
(3) Press the [■RADIO OFF] button (S3) to set the STOP mode.
(4) Press the [FF AMS] button (S4) or the [REW AMS] button (S5).

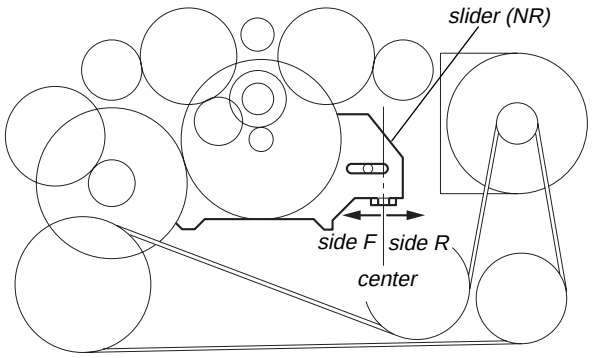
4. PLAY mode
(1) Check that the preset state is set.
(2) Input the square wave or sine wave to the Q15-1(COLLECTOR) and the TP23 (GND).
(3) Press the [■RADIO OFF] button (S3) to set the STOP mode.
(4) Press the [◄ ► REPEAT] button (S9) will move the slider (NR) once towards the side R and then to the side F. Move the DIRECTION switch (S1) according to this timing will set the PLAY mode (side F). Press the [◄ ► REPEAT] button (S9) another time and move the DIRECTION switch (S1) according to the movement of the slider (NR) will set the PLAY (R mode).

Note 1: If the above fails, perform from preset again.
Note 2: Use the [◄ ► REPEAT] (S9), [■RADIO OFF] (S3), [FF AMS] (S4), and [REW AMS] (S5) buttons on the remote controller as much as possible. If no remote controller, do not touch the buttons with your hands, but using a stick with a round tip.
Note 3: When using headphones, the timing for move the DIRECTION switch (S1) can be determined from the beep sound.

– MAIN Board (side B) –

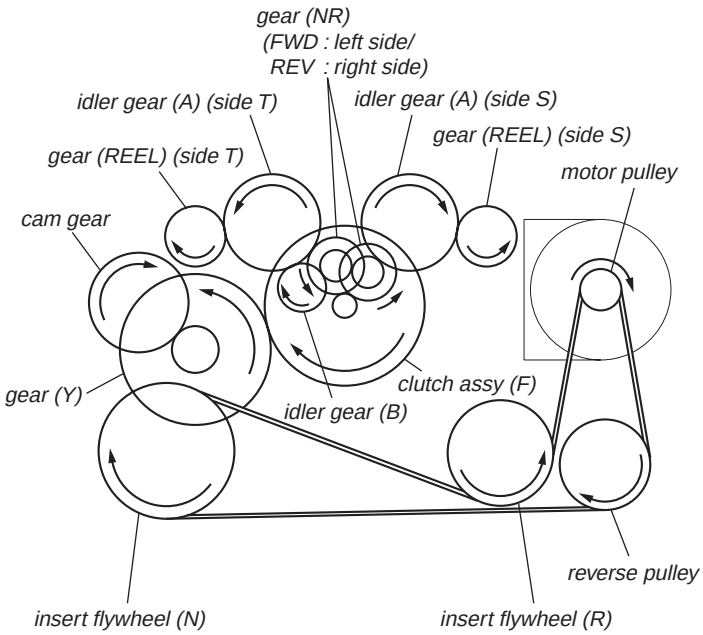


Slider (NR)

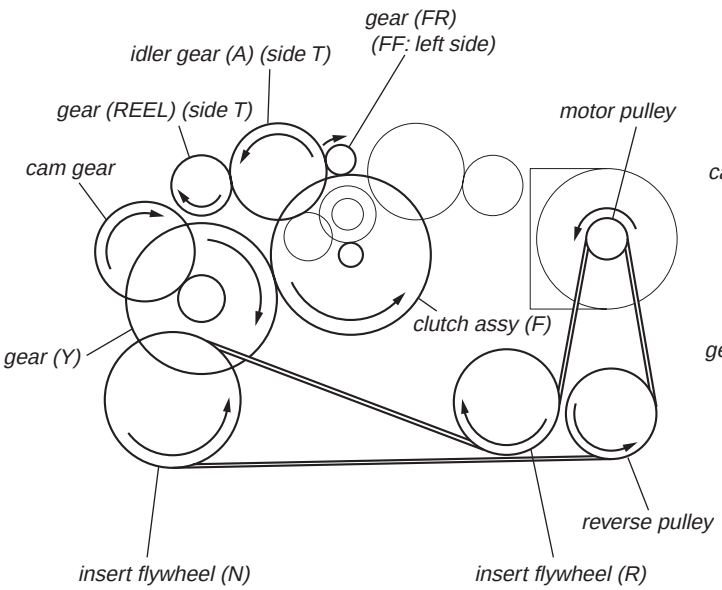


Rotation system

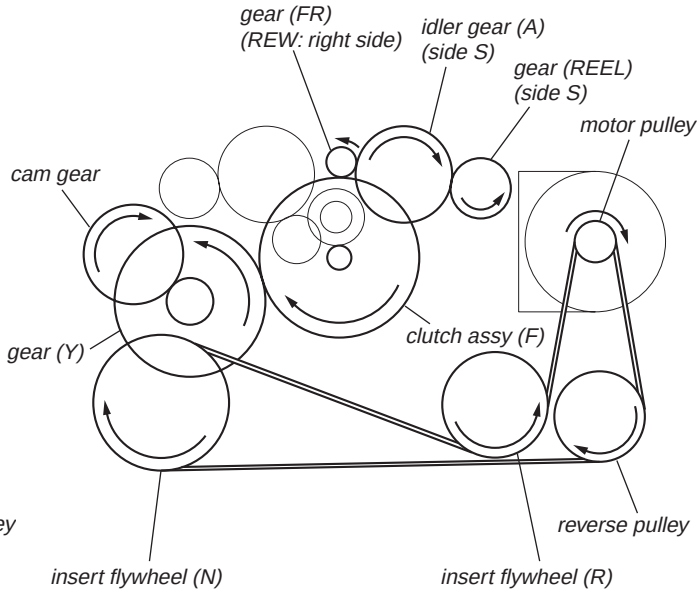
Rotation system during PLAY.



Rotation system during FF.



Rotation system during REW.



SECTION 2
GENERAL

This section is extracted from instruction manual.

A

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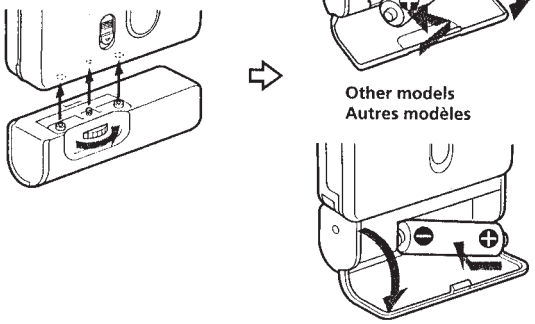

ⓑ U.K., Australian, and Hong Kong model
Modèle pour le Royaume-Uni, l'Australle et Hong-Kong

Other models
Autres modèles

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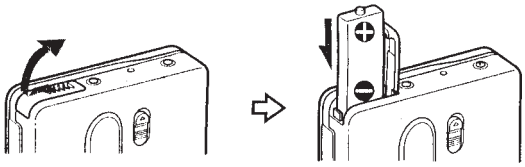

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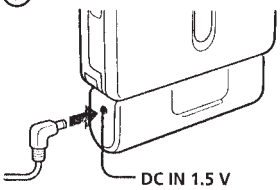

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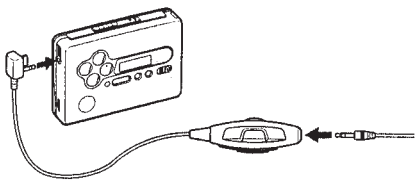

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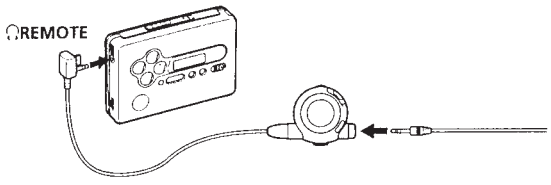

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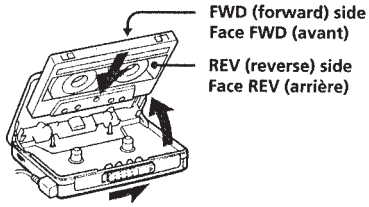

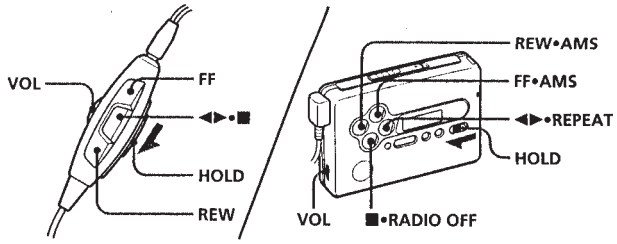

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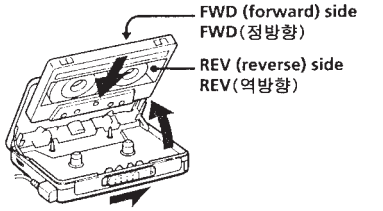

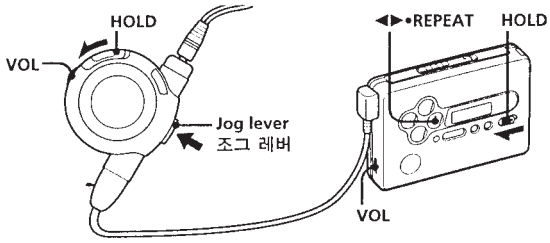

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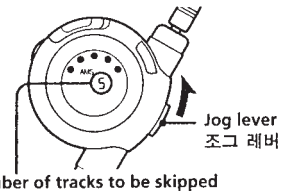

Number of tracks to be skipped
건너뛸 트랙 수

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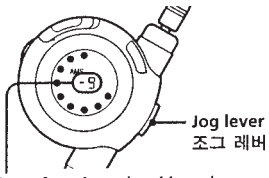

Number of tracks to be skipped
건너뛸 트랙 수

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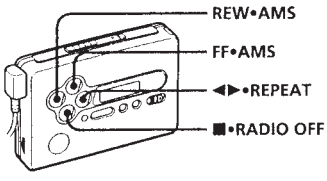

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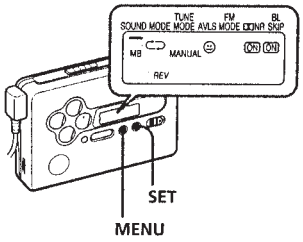

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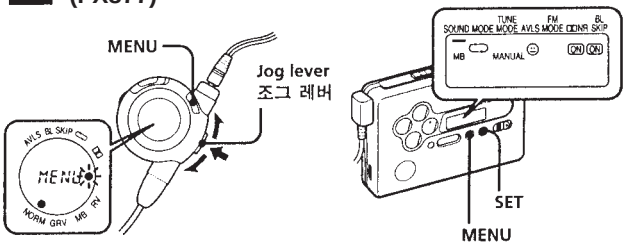

E (FX673)

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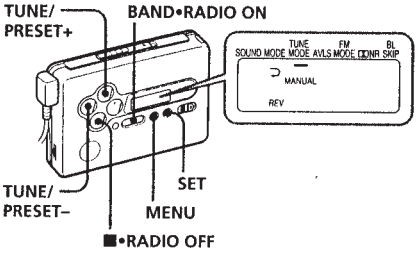

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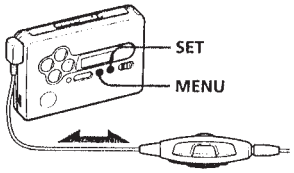

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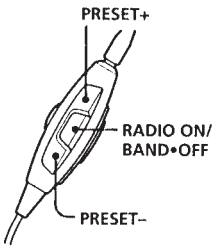

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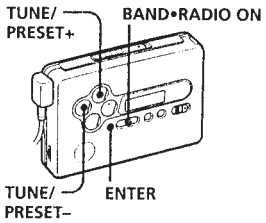

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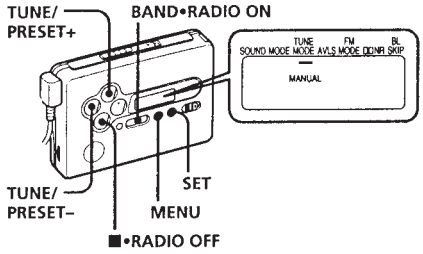

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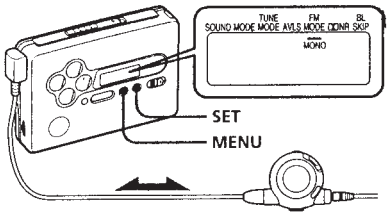

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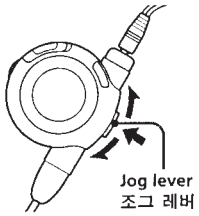

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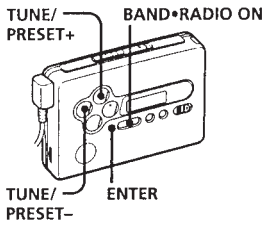

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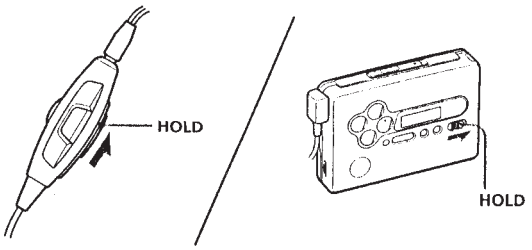

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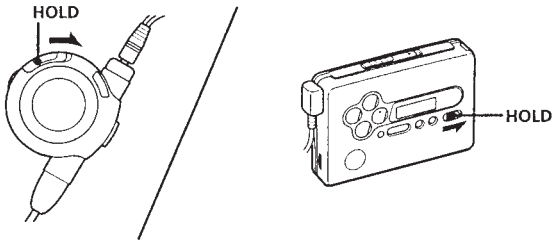
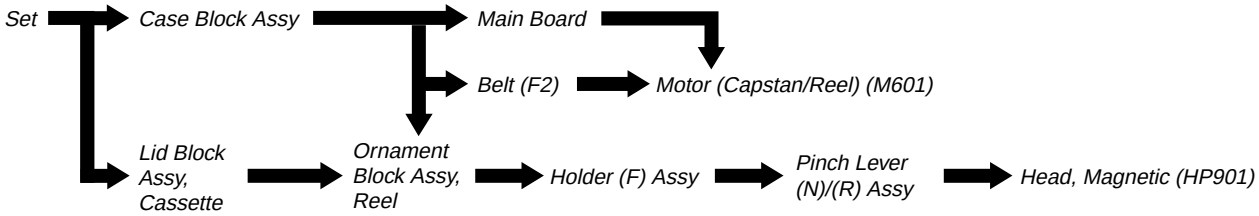


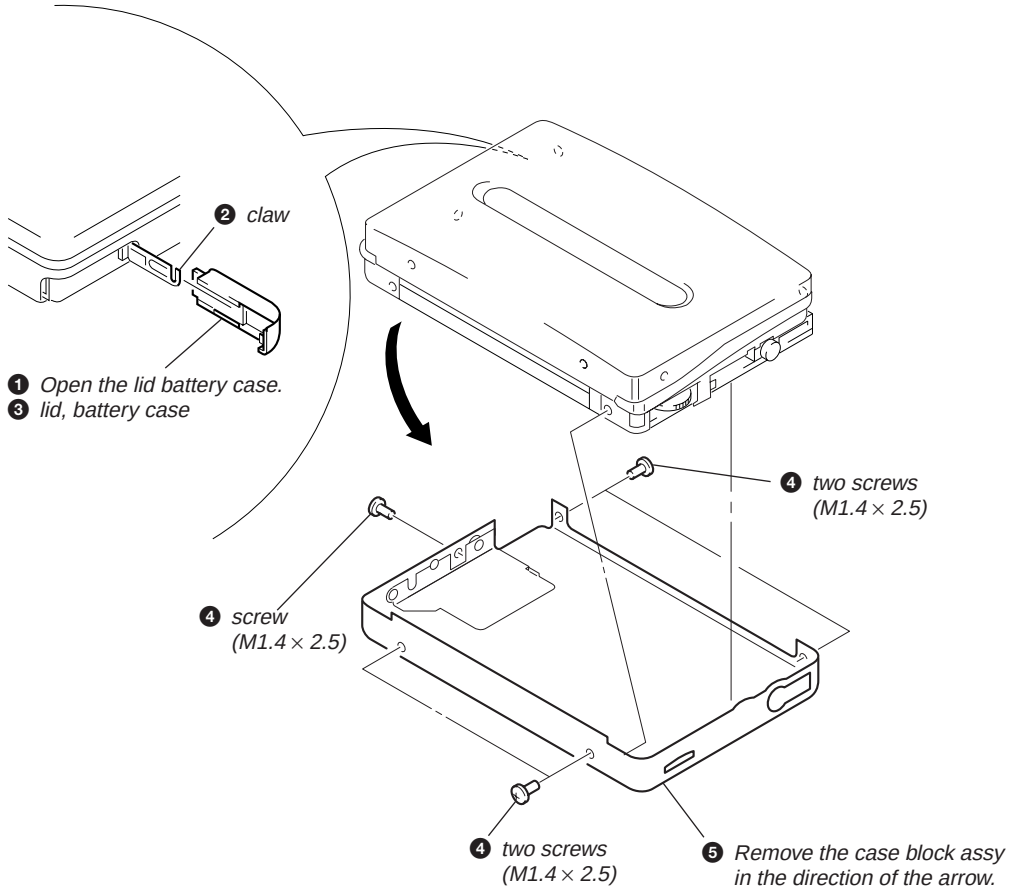
SECTION 3
DISASSEMBLY

This set can be disassembled in the order shown below.

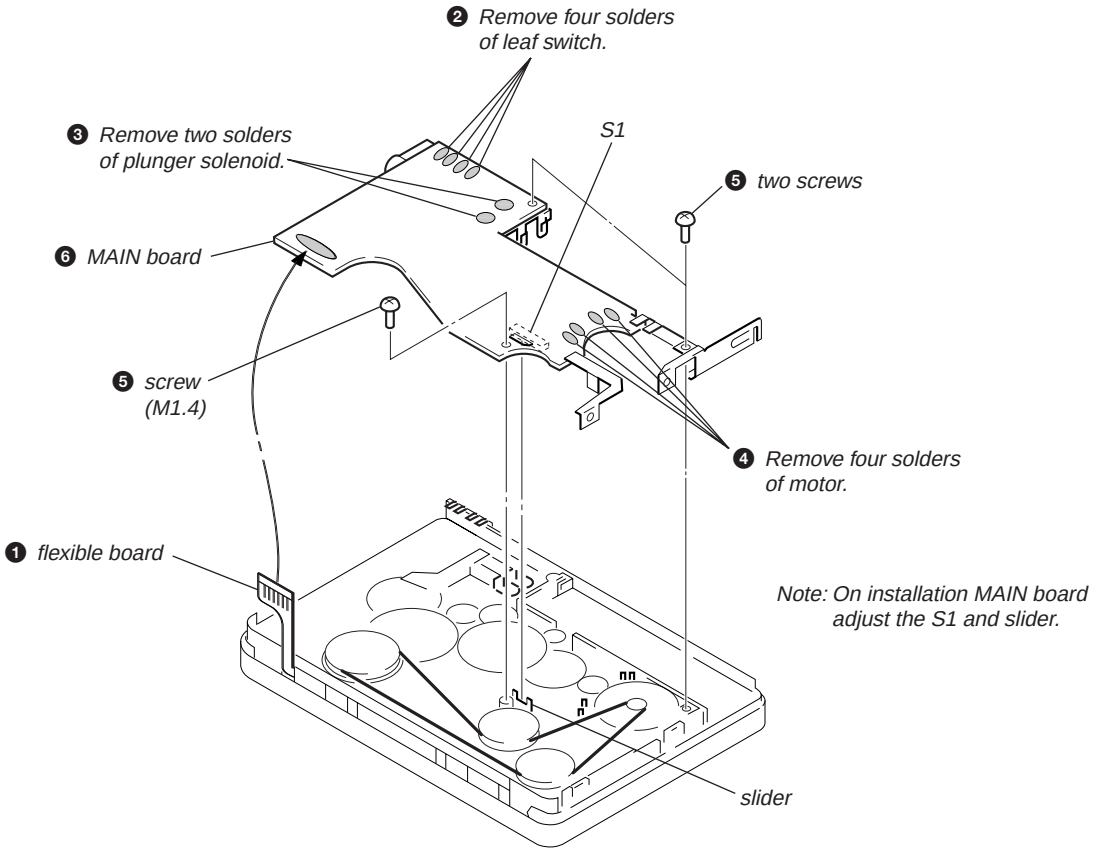


Note: Follow the disassembly procedure in the numerical order given.

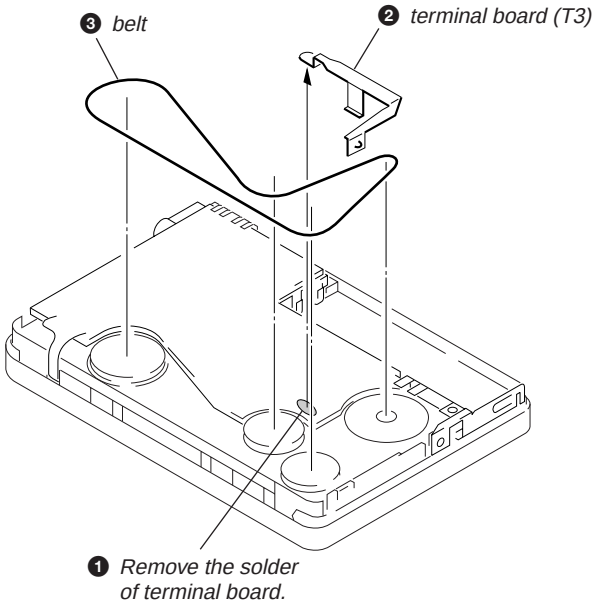
CASE BLOCK ASSY



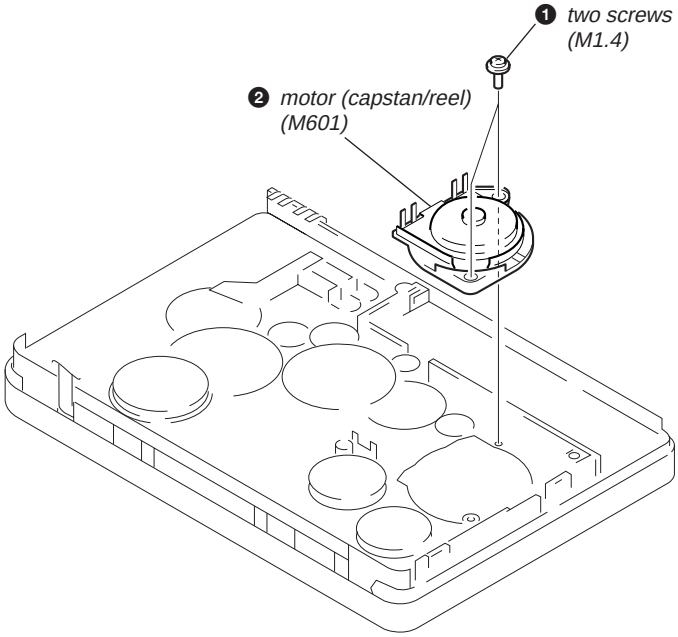
MAIN BOARD



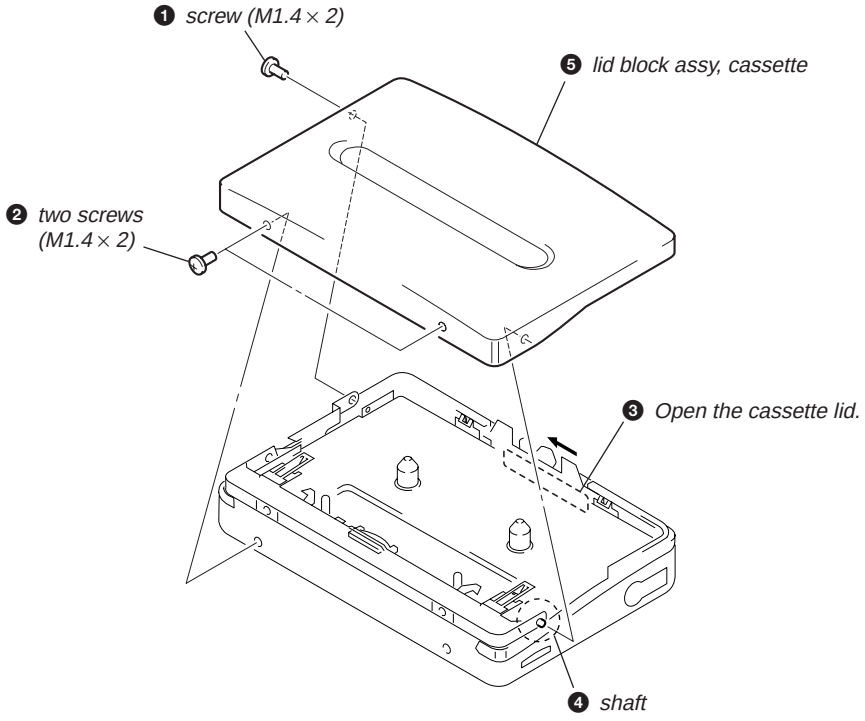
BELT (F2)



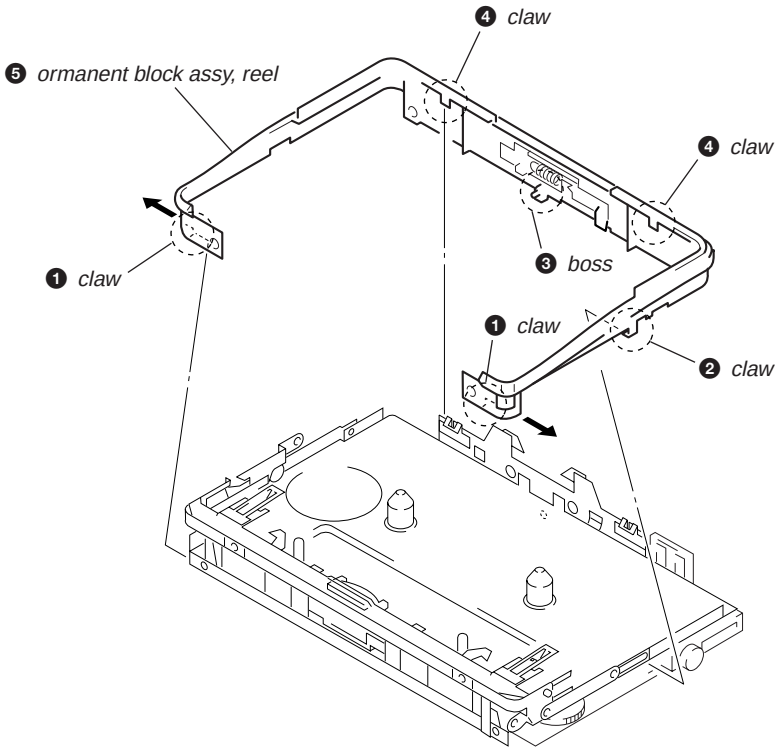
MOTOR (CAPSTAN/REEL) (M601)



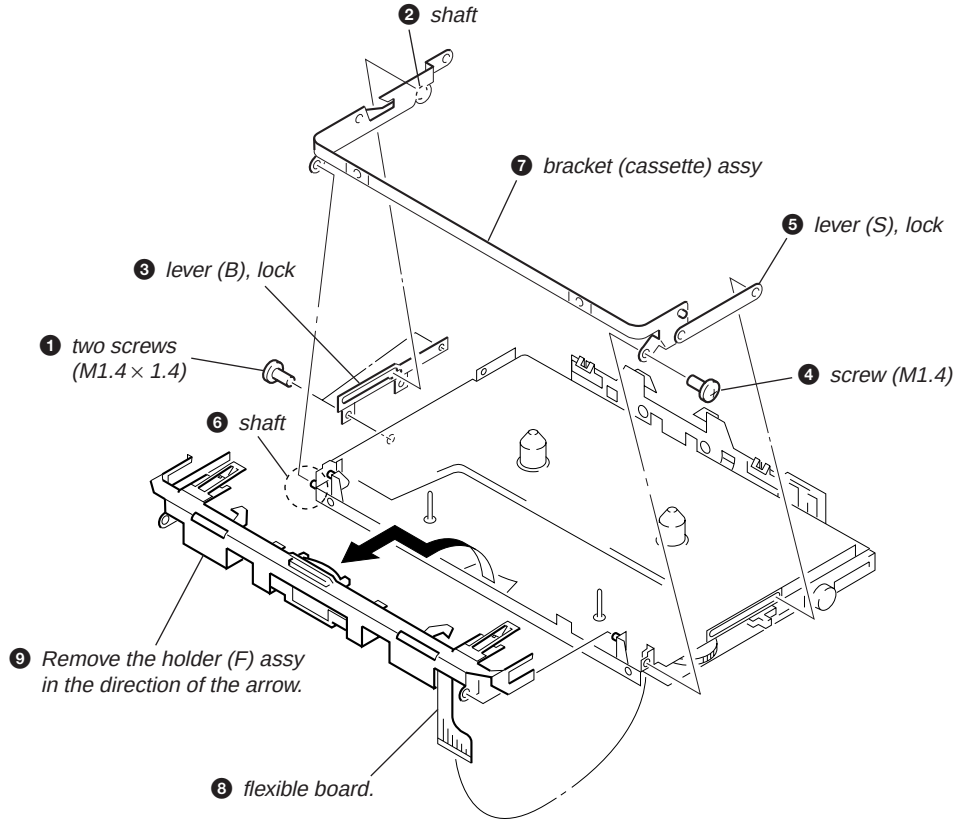
LID BLOCK ASSY, CASSETTE



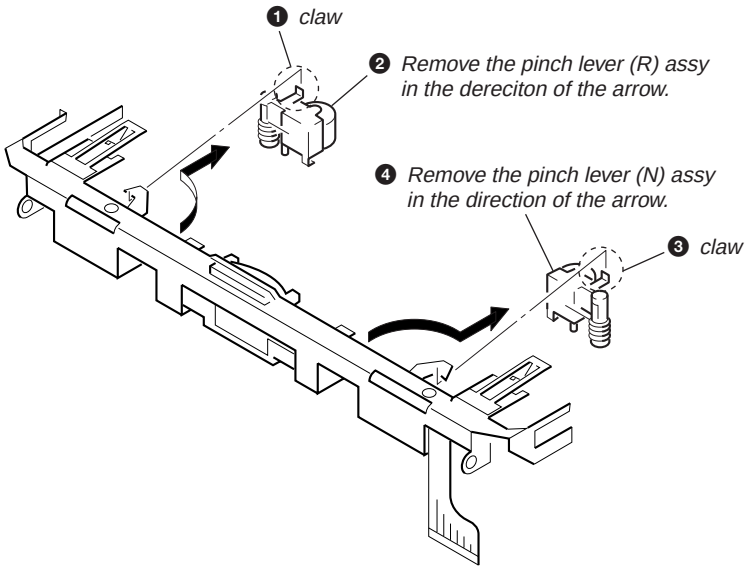
ORNAMENT BLOCK ASSY, REEL



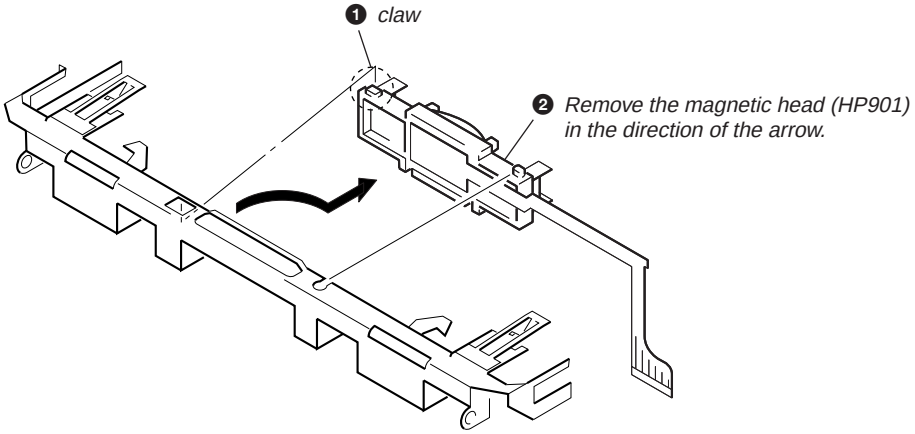
HOLDER (F) ASSY



PINCH LEVER (N)/(R) ASSY



HEAD, MAGNETIC (PLAY BACK) (HP901)



SECTION 4
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:
   playback head　　pinch roller
   rubber belts　　capstan
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 (1.3 V) unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	16 – 25 g•cm (0.23 – 0.34 oz•inch)
FWD Back Tension		0.5 – 1.5 g•cm (0.007 – 0.02 oz•inch)
REV	CQ-102RC	16 – 25 g•cm (0.23 – 0.34 oz•inch)
REV Back Tension		0.5 – 1.5 g•cm (0.007 – 0.02 oz•inch)
FF, REW	CQ-201B	more than 50 g•cm (more than 0.7 oz•inch)

SECTION 5
ELECTRICAL ADJUSTMENTS

PRECAUTION

1. Specified voltage　　: 1.3 V (DC)
2. Setting
   BL SKIP　　: OFF
   SOUND RV/MB/GRV : OFF
   AVLS　　: OFF
   □□NR　　: OFF

TAPE DECK SECTION　　0 dB=0.775 V

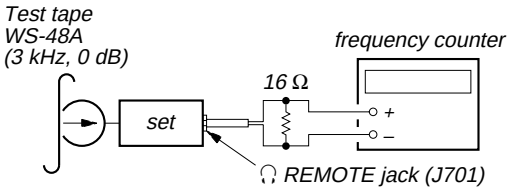
Test tape

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

Tape Speed Adjustment

Setting:

Function: TAPE



Procedure:

1. Playback WS-48A (tape center) in the FWD state.
2. Adjsut RV601 so that the frequency counter reading becomes 3,000 Hz.

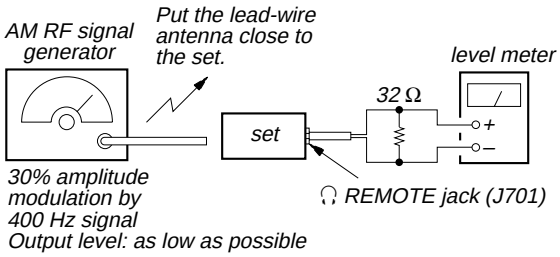
Specification Values: 2,970 to 3,030 Hz

3. Playback WS-48A (tape center) in the REV state.
   Check that the frequency counter reading is within 2% (approx.60 Hz) of the reading of step 1.

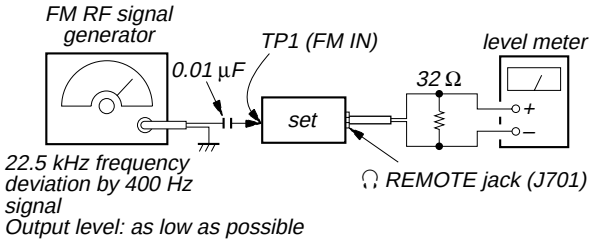
Adjustment Location: MAIN BOARD (See page 13)

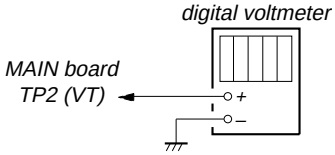
TUNER SECTION | 0 dB=1 µV

[AM]
Setting:
function : RADIO
BAND button : AM



[FM]
Setting:
function : RADIO
BAND button : FM





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

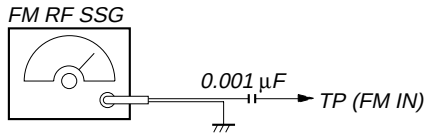
AM IF ADJUSTMENT	
Adjust for a maximum reading on level meter	
T2	450 kHz

AM VCO VOLTAGE ADJUSTMENT		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
T1	531 kHz	1.5 ± 0.1 V
Confirmation	1602 kHz	8.5 ± 1 V

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L5	621 kHz

FM VCO VOLTAGE ADJUSTMENT		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
L2	87.5 MHz	3.4 ± 0.1 V
Confirmation	108 MHz	Less than 10 V

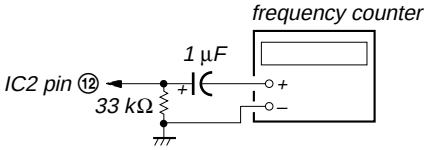
FM VCO Adjustment
Setting:



Carrier frequency : 98 MHz
Modulation : no modulation
Output level : 0.1 V (100 dB)

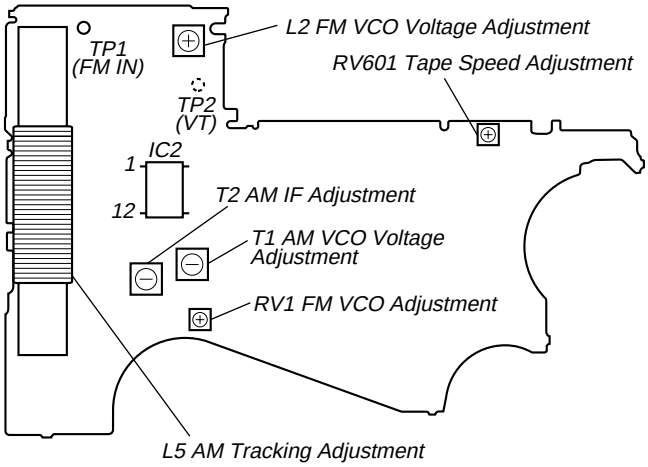
Procedure:
1. Connect the frequency counter to pin ⑫ of IC2 as shown the figure below.
2. Tune the set to 98 MHz.
3. Adjust RV1 for 19 kHz reading on the frequency counter.

Specification: 18.95 kHz to 19.05 kHz



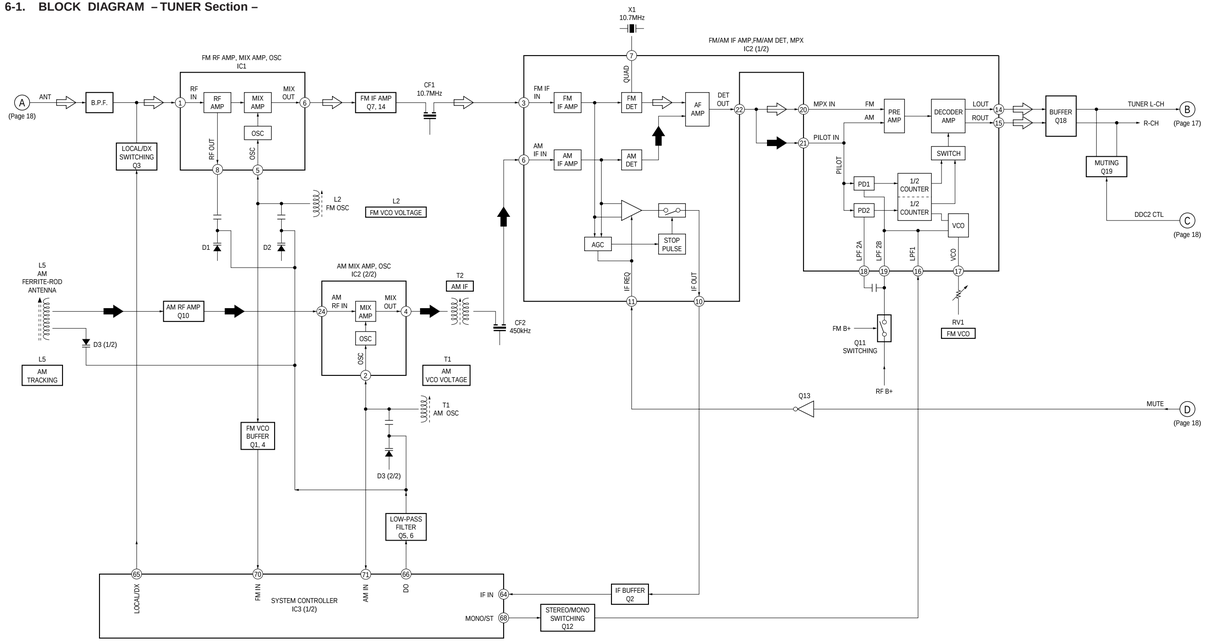
Adjustment Location:

– MAIN Board (Side B) **–**

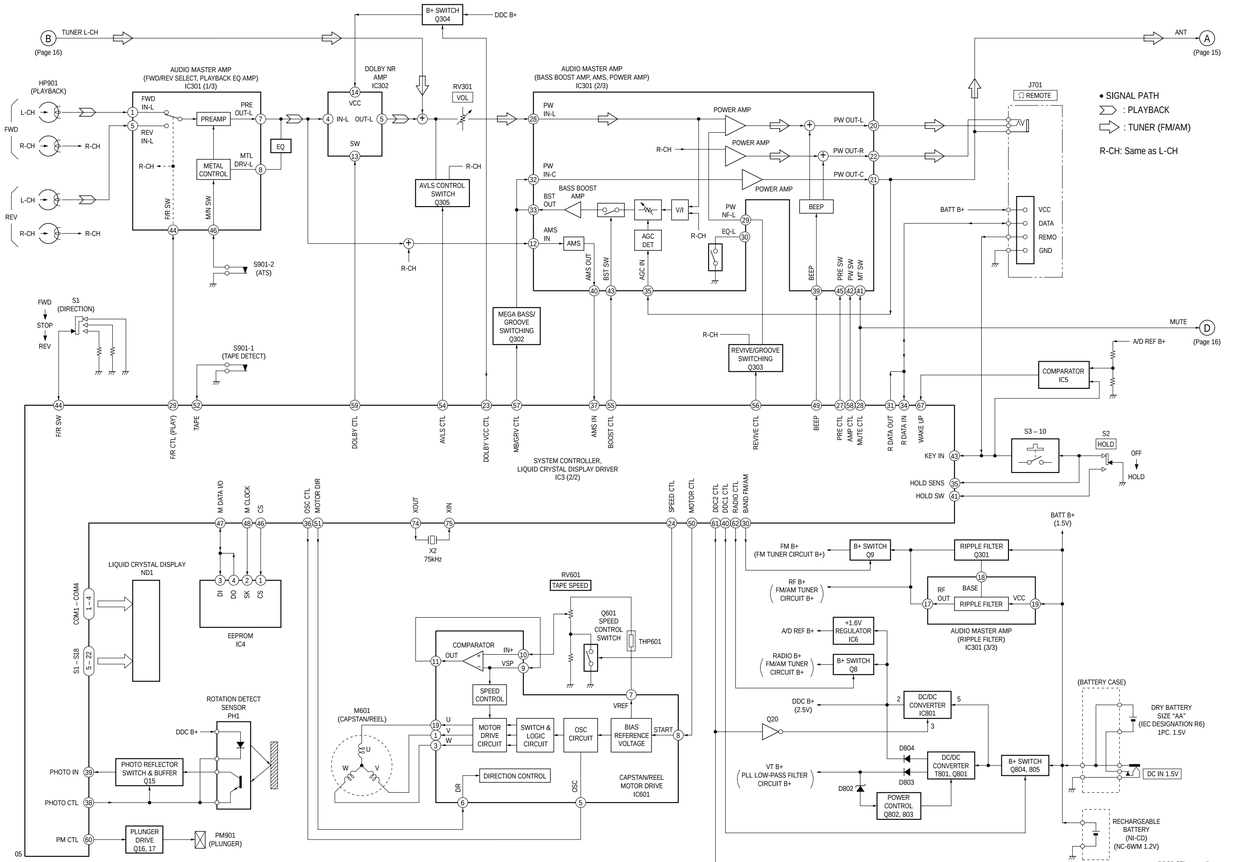


SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM – TUNER Section –



6-2. BLOCK DIAGRAM – MAIN Section –



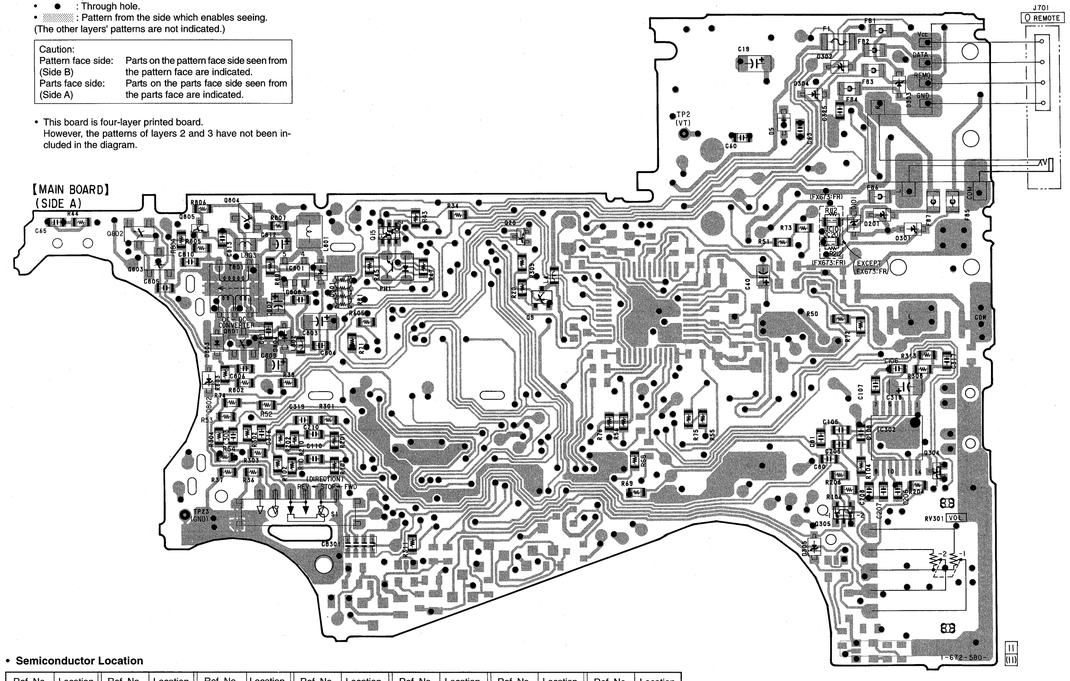
6-3. PRINTED WIRING BOARD

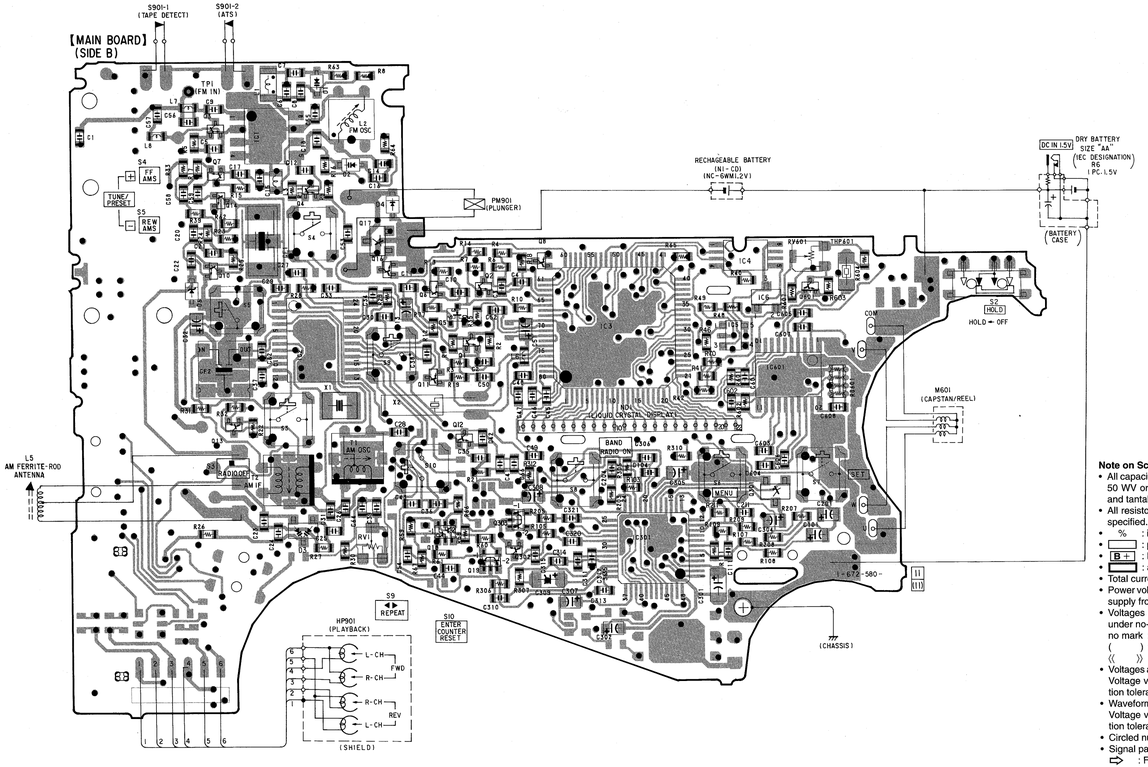
Note on Printed Wiring Board:
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ● : Through hole.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

- This board is four-layer printed board. However, the patterns of layers 2 and 3 have not been included in the diagram.





Note on Schematic Diagram:
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- % : indicates tolerance.
- ▭ : panel designation.
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Total current is measured with no cassette installed.
- Power voltage is dc 1.5 V and fed with regulated dc power supply from battery terminal.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : PLAYBACK
  ( ) : FM
  《 》 : AM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : AM
  ⇦ : PLAYBACK
- Abbreviation
  FR : French model

- **Semiconductor Location**

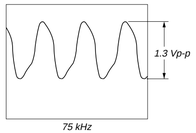
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1	B-15	D302	B-9	IC1	B-14	IC801	D-4	Q6	D-16	Q15	D-5	Q304	F-10		
D2	B-15	D303	B-10	IC2	D-15			Q7	B-14	Q16	C-15	Q305	F-9		
D3	F-15	D304	B-9	IC3	D-18	PH1	D-5	Q8	C-17	Q17	C-15	Q601	D-20		
D4	C-15	D305	G-9	IC4	C-19			Q9	D-6	Q18	F-16	Q801	E-3		
D5	B-8	D801	D-4	IC5	D-19	Q1	D-16	Q10	C-14	Q19	F-16	Q802	D-2		
D6	D-13	D802	E-3	IC6	D-19	Q2	D-16	Q11	D-16	Q20	D-6	Q803	D-2		
D101	C-9	D803	E-3	IC301	F-18	Q3	B-14	Q12	E-16	Q301	F-19	Q804	C-3		
D201	C-9	D804	E-3	IC302	F-10	Q4	C-15	Q13	E-14	Q302	F-17	Q805	D-3		
D301	D-10			IC601	D-19	Q5	D-16	Q14	C-14	Q303	F-17				

6-4. SCHEMATIC DIAGRAM • See page 27 for Waveform. • See page 28 for IC Block Diagrams.

• **Waveform**

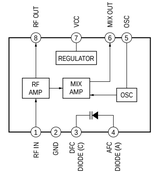
– MAIN BOARD –

❶ IC3 ㉙ (X OUT)
500 mV/DIV, 5 µs/DIV

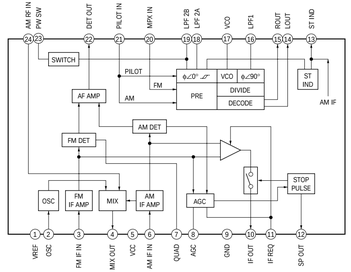


• **IC Block Diagrams**

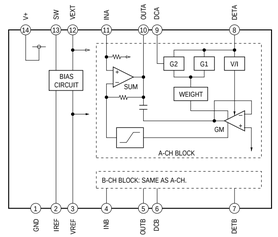
IC1 TA7371AF-EL



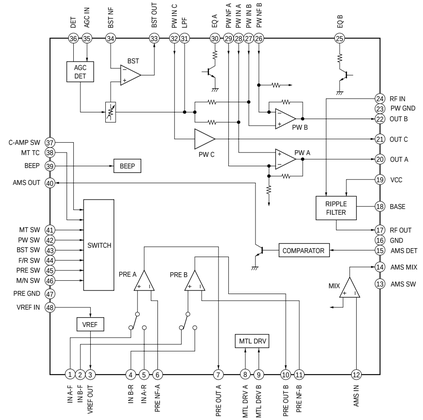
IC2 TA2022AFN-EL



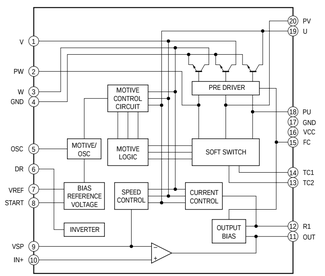
IC302 NJM2185AV-TE2



IC301 TA2123AF (EL)



IC601 MM1279XVBE



6-5. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC3 TC9327AF-606 (SYSTEM CONTROLLER, LIQUID CRYSTAL DISPLAY DRIVER)

Pin No.	Pin Name	I/O	Description
1 to 4	COM1 to COM4	O	Common drive signal output to the liquid crystal display (LCD1)
5 to 22	S1 to S18	O	Segment drive signal output to the liquid crystal display (LCD1)
23	DOLBY VCC CTL	O	Power on/off control signal output of the dolby NR amp (IC302) “L”: power on, “H”: power off
24	SPEED CTL	O	Motor speed control signal output to the capstan/reel motor driver IC (IC601) “L”: normal speed, “H”: 1/2 speed
25	RADIO/MIC	O	Not used (open)
26	F/R CTL (REC)	O	Not used (open)
27	PRE CTL	O	Preamp on/off control signal output to the TA2123AF (IC301) “L”: tape play, “H”: radio on
28	MUTE CTL	O	Power on mute control signal output to the TA2123AF (IC301) “L”: mute on
29	F/R CTL (PLAY)	O	Forward/reverse selection signal output to the TA2123AF (IC301) “L”: reverse direction, “H”: forward direction
30	BAND FM/AM	O	Power on/off control signal output of the FM circuit “L”: power on (FM on), “H”: power off (AM or tape on)
31	R DATA OUT	O	Remote control data output to the remote commander
32	F TUME	I	“H” is input when amplifier on mode
33	R TUME	I	“H” is input when amplifier on mode
34	R DATA IN	I	Communication request input from the remote commander
35	HOLD SENS	I	Hold status input of the HOLD switch (S2) “L”: hold off, “H”: hold on “H” is input when key pressing at hold mode
36	OSC CTL	O	Motor restart control signal output to the capstan/reel motor driver IC (IC601) “L”: BL skip status, “H”: FF/REW motor rotation status
37	AMS IN	I	Whether a music is present or not from TA2123AF (IC301) is detected at auto music sensor “L”: music is present, “H”: music is not present
38	PHOTO CTL	O	Control signal output to the capstan/reel motor rotation detect circuit “L”: rotation detect circuit on
39	PHOTO IN	I	Rotation detect signal input of the capstan/reel motor (M601)
40	DDC1 CTL	O	Power on/off control signal output of the DC/DC converter circuit “L”: power off, “H”: power on
41	HOLD SW	I	Hold detect input from the HOLD switch (S2) “L”: hold on
42	BATT DET	I	Battery voltage detection signal input (A/D input)
43	KEY IN	I	Key input terminal (A/D input)
44	F/R SW	I	Tape direction switch (S1) input terminal (A/D input) “L”: forward position
45	A/D REF	I	Reference voltage (+1.6V) input for the A/D converter
46	CS	O	Chip select signal output to the EEPROM (IC4)
47	M DATA I/O	I/O	Two-way data bus with the EEPROM (IC4)
48	M CLOCK	O	Serial clock signal output to the EEPROM (IC4)
49	BEEP	O	Beep sound signal output to the TA2123AF (IC301)
50	MOTOR CTL	O	Motor start control signal output to the capstan/reel motor driver IC (IC601) “L”: motor off, “H”: motor on
51	MOTOR DIR	O	Motor direction control signal output to the capstan/reel motor driver IC (IC601) “L”: clockwise, “H”: counterclockwise
52	TAPE	I	Cassette tape detect switch (S901-1) input terminal “L”: cassette detected, “H”: no cassette
53	REC CTL	O	Not used (open)
54	AVLS CTL	O	AVLS (Automatic Volume Limiter System) on/off control signal output terminal “L”: AVLS on “H”: AVLS off

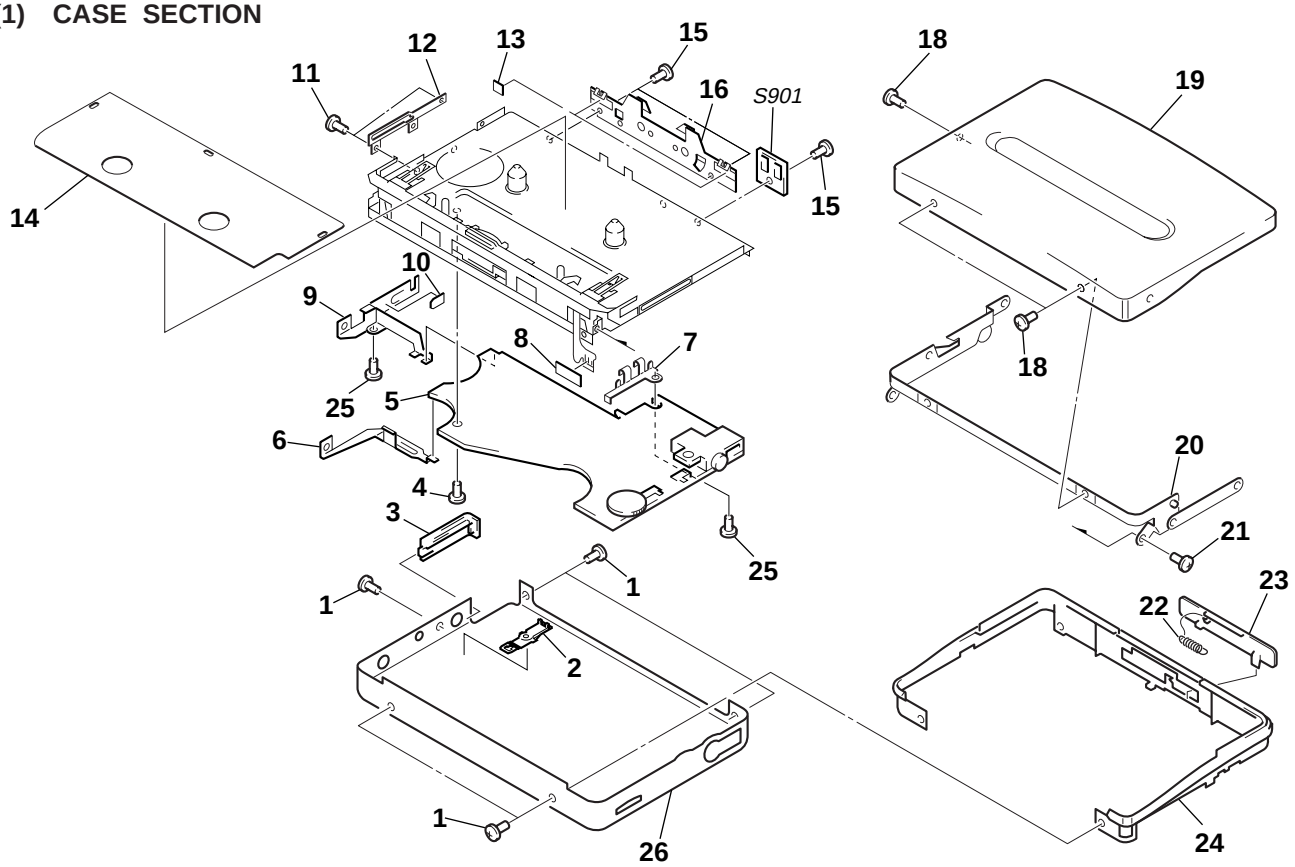
Pin No.	Pin Name	I/O	Description
55	BOOST CTL	O	Bass boost control signal output to the TA2123AF (IC301) "L": off, "H": on
56	REVIVE CTL	O	Emphasizing sound control signal output to the TA2123AF (IC301) "L": RV (revive), "H": normal/MB (mega bass)/GRV (groove)
57	MB/GRV CTL	O	Emphasizing sound control signal output to the TA2123AF (IC301) "L": normal/RV (revive)/GRV (groove), "H": MB (mega bass)
58	AMP CTL	O	Power on/off control signal output to the TA2123AF (IC301) "L": power off, "H": power on
59	DOLBY CTL	O	Dolby on/off control signal output to the dolby NR amp (IC302) "L": dolby NR on, "H": dolby NR off
60	PM CTL	O	Plunger drive signal output terminal "L": plunger on
61	DDC2 CTL	O	Power on/off control signal output of the DC/DC converter circuit "L": power off, "H": power on
62	RADIO CTL	O	Power on/off control signal output of the FM and AM circuit "L": power on (FM or AM on), "H": power off (tape on)
63	TEST	I	Test input terminal Normally: fixed at "L"
64	IF IN	I	Intermediate frequency detect signal input from the TA2022AFN (IC2)
65	LOCAL/DX	O	Local/DX select signal output terminal "L": DX, "H": local
66	DO	O	PLL error signal output terminal
67	WAKE UP	I	Input of acknowledge signal for the key entry Acknowledge signal is input to accept function in the power off status On at input of "H"
68	MONO/ST	O	FM stereo/mono select signal output to the TA2022AFN (IC2) "L": stereo, "H": mono
69	GND	—	Ground terminal
70	FM IN	I	FM VCO input terminal
71	AM IN	I	AM (MW) VCO input terminal
72	VDD	—	Power supply terminal (+2.5V)
73	RESET	I	System reset signal input terminal "L": reset
74	XOUT	O	System clock output terminal (75 kHz)
75	XIN	I	System clock input terminal (75 kHz)
76	VXT	—	Terminal to which external capacitor is connected to stabilize crystal oscillator power supply
77	VLCD	—	Terminal for doubler circuit capacitor connection to develop liquid crystal display drive voltage
78	C1	—	
79	C2	—	
80	VEE	—	

SECTION 7
EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- 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.
- Accessories and packing materials are given in the last of the electrical parts list.
- Abbreviation
  AUS : Australian model
  CH : Chinese model
  CND : Canadian model
  EA : Saudi Arabia model
  EE : East European model
  FR : French model
  HK : Hong Kong model
  JE : Tourist model
  KR : Korean model

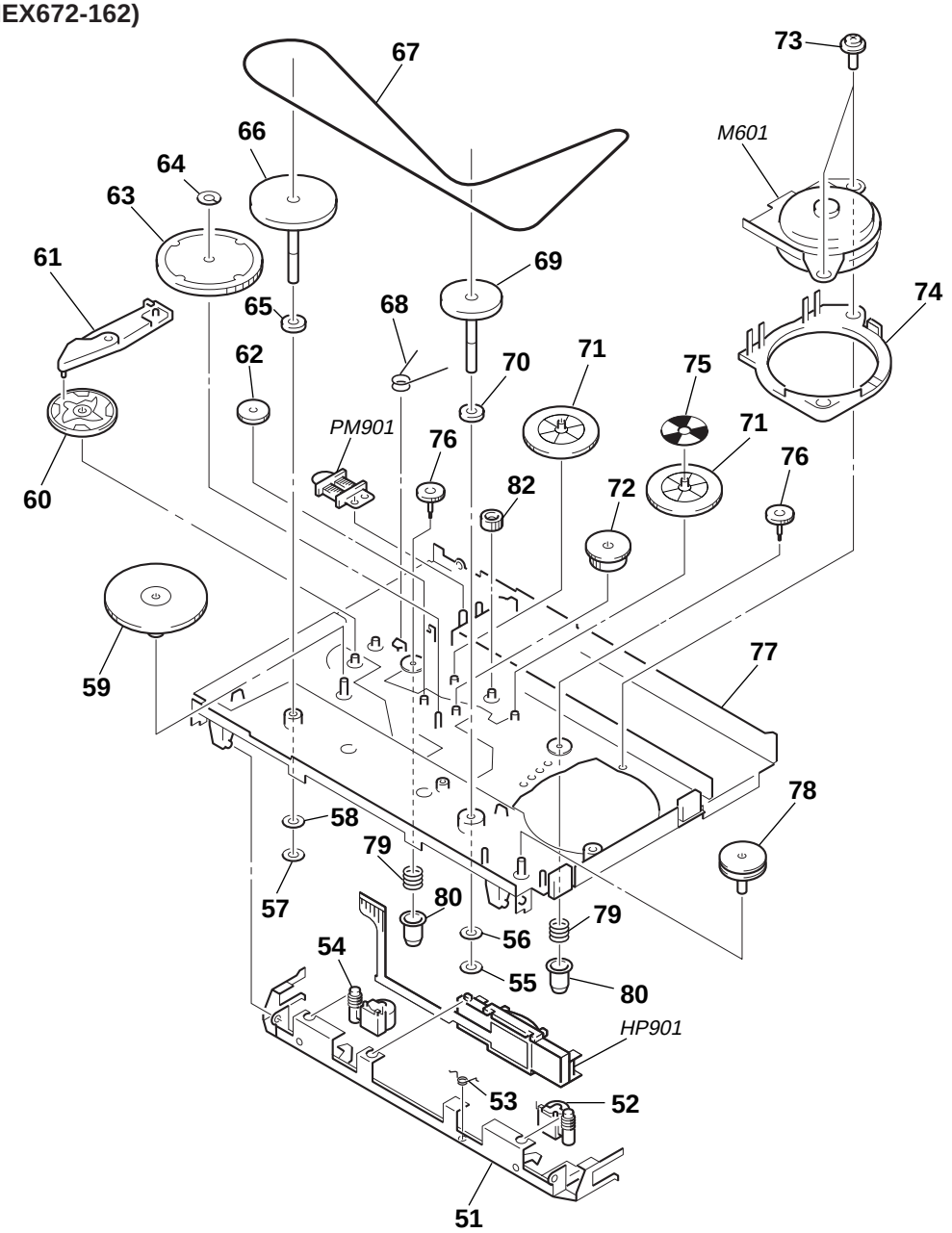
(1) CASE SECTION



Ref. No.	Part No.	Description	Remark
1	3-704-197-21	SCREW (M1.4X2.5), LOCKING (FX877: JE, KR)	
1	3-704-197-23	SCREW (M1.4X2.5), LOCKING	
2	3-034-075-01	LEVER (HOLD)	
3	3-034-068-01	LID, BATTERY (FX877: JE) (SILVER)	
3	3-034-068-11	LID, BATTERY (FX877: JE) (BLUE)	
3	3-034-068-21	LID, BATTERY (FX673/FX877: CH, KR)	
3	3-034-068-31	LID, BATTERY (FX877: KR) (BLUE)	
4	3-345-648-71	SCREW (M1.4), TOOTHED LOCK	
5	A-3021-222-A	MAIN, BOARD COMPLETE (EXCEPT FX673: FR/FX877: JE)	
5	A-3021-223-A	MAIN, BOARD COMPLETE (FX673: FR)	
5	A-3021-237-A	MAIN, BOARD COMPLETE (FX877: JE)	
6	3-029-213-02	TERMINAL BOARD (T3)	
7	3-029-210-01	TERMINAL BOARD (MINUS)	
8	3-309-595-11	SHEET, INSULATING, PACK (FX877: CH, JE)	
9	X-3377-281-1	TERMINAL BOARD ASSY, BATTERY	
10	3-031-460-01	SHEET (BT)	
11	3-366-892-11	SCREW (M1.4X1.4)	
12	3-029-217-01	LEVER (B), LOCK	
13	3-328-483-11	SHEET	
14	3-029-205-01	COVER, MD (FX877: JE)	
14	3-029-205-11	COVER, MD (FX673: AEP, UK, FR, EE)	
14	3-029-205-21	COVER, MD (FX673: CND, E, EA, HK, AUS/FX877: CH)	

Ref. No.	Part No.	Description	Remark
15	3-366-892-01	SCREW (M1.4)	
16	X-3376-277-2	BRACKET ASSY	
18	3-704-197-11	SCREW (M1.4X2.0), LOCKING (FX877: KR, JE)	
18	3-704-197-13	SCREW (M1.4X2.0), LOCKING	
19	X-3377-332-1	LID ASSY (F-S), CASSETTE (FX673/FX877: CH)	
19	X-3377-528-1	LID ASSY (F-SJ), CASSETTE (FX877: JE, KR) (SILVER)	
19	X-3377-529-1	LID ASSY (F-LJ), CASSETTE (FX877: KR, JE) (BLUE)	
20	X-3376-279-1	BRACKET (CASSETTE) ASSY	
21	3-365-630-41	SCREW (M1.4)	
22	3-029-220-01	SPRING, TENSION	
23	3-029-219-01	KNOB (OPEN)	
24	3-034-072-11	ORNAMENT, REEL	
25	3-375-114-41	SCREW	
26	X-3377-347-1	CASE (FX-AS3) ASSY (FX673: CND, E, EA, HK, AUS)	
26	X-3377-348-1	CASE (FX-AS7M) ASSY (FX877: KR)	
26	X-3377-349-1	CASE (FX-AS7M) ASSY (FX877: CH)	
26	X-3377-357-1	CASE (FX-AS30) ASSY (FX673: AEP, UK, FR, EE)	
26	X-3377-366-1	CASE (FX-AL7J) ASSY (FX877: KR, JE) (BLUE)	
26	X-3377-367-1	CASE (FX-AS7J) ASSY (FX877: KR, JE) (SILVER)	
S901	1-762-553-11	SWITCH, LEAF (TAPE DETECT, ATS)	

(2) MECHANISM DECK SECTION (MT-WMEX672-162)



Ref. No.	Part No.	Description	Remark
51	X-3376-293-1	HOLDER (F) ASSY (FX877)	
51	X-3377-039-1	HOLDER (F) ASSY (/M) (FX673)	
52	X-3377-363-1	PINCH LEVER (R) ASSY	
53	3-029-271-01	SPRING (HD)	
54	X-3377-362-1	PINCH LEVER (N) ASSY	
55	3-029-276-01	WASHER (STOPPER R)	
56	3-029-289-01	WASHER	
57	3-029-275-01	WASHER (STOPPER N)	
58	3-029-278-01	WASHER	
59	3-029-282-01	GEAR (Y)	
60	3-029-285-01	GEAR, CAM	
61	3-029-284-01	LEVER, TRIGGER	
62	3-029-281-01	GEAR, IDLER (B)	
63	X-3376-813-1	CLUTCH ASSY (F)	
64	3-932-724-21	WASHER	
65	3-386-694-01	WASHER	
66	3-029-306-01	FLYWHEEL (N), INSERT (FX877)	
66	3-029-306-11	FLYWHEEL (N), INSERT (FX673)	
67	3-029-280-01	BELT (F2)	

Ref. No.	Part No.	Description	Remark
68	3-029-287-01	SPRING (TG), TORSION	
69	3-029-268-01	FLYWHEEL (R), INSERT (FX877)	
69	3-029-268-11	FLYWHEEL (R), INSERT (FX673)	
70	3-007-428-01	WASHER (R)	
71	3-029-283-01	GEAR, IDLER (A)	
72	3-029-286-01	GEAR (NR)	
73	3-029-765-01	SCREW (M1.4), TOOTHED LOCK	
74	3-029-274-02	RETAINER (F2), MOTOR	
75	3-007-433-01	SHEET (N), REFLECTION	
76	3-010-273-02	GEAR (REEL)	
77	X-3376-291-4	CHASSIS ASSY (F) (FX877)	
77	X-3377-037-2	CHASSIS ASSY (F) (/M) (FX673)	
78	3-029-288-01	PULLEY, REVERSE	
79	3-010-954-01	SPRING (BT), COMPRESSION	
80	3-010-274-02	TABLE, REEL	
82	3-029-273-01	GEAR (FR)	
HP901	1-500-576-11	HEAD, MAGNETIC (PLAYBACK)	
M601	1-763-166-12	MOTOR (CAPSTAN/REEL)	
PM901	1-454-674-32	SOLENOID, PLUNGER	

MAIN

SECTION 8
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.
- -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
- Abbreviation
  AUS : Australian model
  CH : Chinese model
  CND : Canadian model
  EA : Saudi Arabia model
  EE : East European model
  FR : French model
  HK : Hong Kong model
  JE : Tourist model
  KR : Korean model
- 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. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

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

Ref. No.	Part No.	Description			Remark
	A-3021-222-A	MAIN BOARD, COMPLETE (EXCEPT FX673: FR/FX877: JE)			
	A-3021-223-A	MAIN BOARD, COMPLETE (FX673: FR)			
	A-3021-237-A	MAIN BOARD, COMPLETE (FX877: JE)			
		**********			
	1-694-502-11	CONDUCTIVE BOARD, CONNECTION			
	3-034-073-01	HOLDER (LCD)			
		< CAPACITOR >			
C1	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C2	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C4	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C5	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C6	1-162-908-11	CERAMIC CHIP	3PF	0.25PF	50V
C7	1-164-676-11	CERAMIC CHIP	2200PF	5%	16V
C8	1-164-676-11	CERAMIC CHIP	2200PF	5%	16V
C9	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C10	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C11	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C12	1-162-905-11	CERAMIC CHIP	1PF	0.25PF	50V
C13	1-107-817-11	TANTAL. CHIP	0.33uF	10%	16V
C14	1-162-905-11	CERAMIC CHIP	1PF	0.25PF	50V
C15	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C16	1-164-676-11	CERAMIC CHIP	2200PF	5%	16V
C17	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C18	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C19	1-135-201-11	TANTAL. CHIP	10uF	20%	4V
C20	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C21	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C22	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C23	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C24	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C25	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C26	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C27	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C28	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C29	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C30	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C31	1-164-362-11	CERAMIC CHIP	470PF	5%	50V
C32	1-125-984-21	TANTAL. CHIP	22uF	20%	4V
C33	1-115-156-11	CERAMIC CHIP	1uF		10V
C34	1-115-156-11	CERAMIC CHIP	1uF		10V
C35	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C36	1-115-156-11	CERAMIC CHIP	1uF		10V
C37	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C38	1-107-826-91	CERAMIC CHIP	0.1uF	10%	16V
C39	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C40	1-127-578-91	TANTAL. CHIP	3.3uF	20%	6.3V
C41	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C42	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C43	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C44	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C45	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C46	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C47	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C48	1-115-156-11	CERAMIC CHIP	1uF		10V
C49	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C50	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C51	1-125-984-21	TANTAL. CHIP	22uF	20%	4V
C52	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C53	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C54	1-115-156-11	CERAMIC CHIP	1uF		10V
C55	1-164-676-11	CERAMIC CHIP	2200PF	5%	16V
C56	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C57	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C58	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C59	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C60	1-164-676-11	CERAMIC CHIP	2200PF	5%	16V
C62	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C63	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C64	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C65	1-107-826-91	CERAMIC CHIP	0.1uF	10%	16V
C66	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C80	1-115-156-11	CERAMIC CHIP	1uF		10V
C81	1-115-156-11	CERAMIC CHIP	1uF		10V
C101	1-125-984-21	TANTAL. CHIP	22uF	20%	4V
C104	1-113-619-11	CERAMIC CHIP	0.47uF	10%	6.3V
C105	1-115-156-11	CERAMIC CHIP	1uF		10V
C106	1-113-619-11	CERAMIC CHIP	0.47uF	10%	6.3V
C107	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C108	1-115-156-11	CERAMIC CHIP	1uF		10V
C110	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C111	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C201	1-125-984-21	TANTAL. CHIP	22uF	20%	4V
C204	1-113-619-11	CERAMIC CHIP	0.47uF	10%	6.3V
C205	1-115-156-11	CERAMIC CHIP	1uF		10V

Ref. No.	Part No.	Description			Remark
C206	1-115-156-11	CERAMIC CHIP	1uF		10V
C207	1-113-619-11	CERAMIC CHIP	0.47uF	10%	6.3V
C208	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C210	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C211	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C301	1-119-663-11	TANTAL. CHIP	47uF	20%	2.5V
C302	1-107-815-11	TANTAL. CHIP	2.2uF	20%	4V
C303	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C304	1-125-984-21	TANTAL. CHIP	22uF	20%	4V
C305	1-125-984-21	TANTAL. CHIP	22uF	20%	4V
C306	1-113-619-11	CERAMIC CHIP	0.47uF	10%	6.3V
C307	1-117-181-11	TANTAL. CHIP	4.7uF	20%	2.5V
C308	1-117-181-11	TANTAL. CHIP	4.7uF	20%	2.5V
C309	1-135-149-21	TANTAL. CHIP	2.2uF	20%	10V
C310	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C311	1-165-112-11	CERAMIC CHIP	0.33uF		16V
C312	1-165-128-11	CERAMIC CHIP	0.22uF		16V
C313	1-115-156-11	CERAMIC CHIP	1uF		10V
C314	1-165-128-11	CERAMIC CHIP	0.22uF		16V
C315	1-115-156-11	CERAMIC CHIP	1uF		10V
C316	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C317	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C318	1-135-201-11	TANTAL. CHIP	10uF	20%	4V
C319	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C320	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C321	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C325	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C601	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C602	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C603	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C604	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C605	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C606	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C607	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C608	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C803	1-135-177-21	TANTAL. CHIP	1uF	20%	20V
C804	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C805	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C806	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C807	1-125-984-21	TANTAL. CHIP	22uF	20%	4V
C808	1-115-156-11	CERAMIC CHIP	1uF		10V
C809	1-127-808-91	TANTAL. CHIP	10uF	20%	6.3V
C810	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C811	1-115-156-11	CERAMIC CHIP	1uF		10V
C812	1-125-984-21	TANTAL. CHIP	22uF	20%	4V
C813	1-115-156-11	CERAMIC CHIP	1uF		10V
CB301	1-127-678-21	CERAMIC CHIP	330PF	0	50V
		< FILTER >			
CF1	1-767-362-11	FILTER, CERAMIC (10.7MHz)			
CF2	1-767-480-11	FILTER, CERAMIC (AM) (450kHz)			
		< DIODE >			
D1	8-719-053-30	DIODE MA357 (E)-(TX).SO			
D2	8-719-053-30	DIODE MA357 (E)-(TX).SO			
D3	8-719-072-58	DIODE SVC347-TL			
D4	8-719-404-50	DIODE MA111-TX			
D5	8-719-049-09	DIODE 1SS367-T3SONY			
D6	8-719-422-37	DIODE MA8051-TX			
D101	8-719-422-37	DIODE MA8051-TX			
D201	8-719-422-37	DIODE MA8051-TX			
D301	8-719-422-37	DIODE MA8051-TX			
D302	8-719-422-37	DIODE MA8051-TX			
D303	8-719-422-37	DIODE MA8051-TX			
D304	8-719-422-37	DIODE MA8051-TX			
D305	8-719-422-37	DIODE MA8051-TX			
D801	8-719-049-09	DIODE 1SS367-T3SONY			
D802	8-719-420-87	DIODE MA8130-TX			
D803	8-719-404-50	DIODE MA111-TX			
D804	8-719-420-51	DIODE MA729-TX			
		< FUSE >			
F1	1-533-792-11	FUSE (SMD) 0.25A/125V			
		< FERRITE BEAD >			
FB1	1-500-445-21	FERRITE	0uH		
FB2	1-500-445-21	FERRITE	0uH		
FB3	1-500-445-21	FERRITE	0uH		
FB4	1-500-245-11	FERRITE	0uH		
FB5	1-500-245-11	FERRITE	0uH		
FB6	1-500-245-11	FERRITE	0uH		
FB7	1-500-245-11	FERRITE	0uH		
		< IC >			
IC1	8-759-362-23	IC TA7371AF-EL			
IC2	8-759-362-25	IC TA2022AFN-EL			
IC3	8-759-594-67	IC TC9327AF-606			
IC4	8-759-457-68	IC AK93C45AV-L			
IC5	8-759-387-31	IC TC75S55F (TE85R)			
IC6	8-759-457-70	IC XC62RP1602MR			
IC301	8-759-579-12	IC TA2123AF (EL)			
IC302	8-759-488-80	IC NJM2185AV-TE2			
IC601	8-759-356-46	IC MM1279XVBE			
IC801	8-759-553-28	IC XC6383C251ML			
		< JACK >			
J701	1-779-867-81	JACK (🎧 REMOTE)			
		< SHORT >			
JC101	1-216-864-11	METAL CHIP	0	5%	1/16W (EXCEPT FX673: FR)
JC201	1-216-864-11	METAL CHIP	0	5%	1/16W (EXCEPT FX673: FR)
		< COIL >			
L1	1-469-373-21	INDUCTOR CHIP	95nH		
L2	1-416-941-21	COIL (FM OSC)			
L3	1-410-997-42	INDUCTOR CHIP	2.2uH		
L4	1-412-995-21	INDUCTOR CHIP	22uH		
L5	1-754-046-11	ANTENNA, FERRITE-ROD (AM)			
L6	1-412-995-21	INDUCTOR CHIP	22uH		
L7	1-412-967-31	INDUCTOR CHIP	0.1uH		
L8	1-412-967-31	INDUCTOR CHIP	0.1uH		
L801	1-412-034-11	INDUCTOR CHIP	330uH		
L802	1-412-995-21	INDUCTOR CHIP	22uH		

MAIN

Ref. No.	Part No.	Description			Remark
L803	1-412-010-41	INDUCTOR CHIP	22uH		
		< LIQUID CRYSTAL DISPLAY >			
ND1	1-803-469-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< PHOTO REFLECTOR >			
PH1	8-749-014-43	PHOTO REFLECTOR PR-20-T			
		< TRANSISTOR >			
Q1	8-729-037-89	TRANSISTOR	2SC4627J-C (TX).SO		
Q2	8-729-028-69	TRANSISTOR	2SC4655-BC (TX)		
Q3	8-729-037-89	TRANSISTOR	2SC4627J-C (TX).SO		
Q4	8-729-037-89	TRANSISTOR	2SC4627J-C (TX).SO		
Q5	8-729-231-96	FET	2SK880GR-TE85L		
Q6	8-729-028-69	TRANSISTOR	2SC4655-BC (TX)		
Q7	8-729-037-89	TRANSISTOR	2SC4627J-C (TX).SO		
Q8	8-729-037-64	TRANSISTOR	UN9116J-(TX).SO		
Q9	8-729-823-86	TRANSISTOR	2SA1745-TL		
Q10	8-729-037-89	TRANSISTOR	2SC4627J-C (TX).SO		
Q11	8-729-037-63	TRANSISTOR	UN9115J-(TX).SO		
Q12	8-729-037-71	TRANSISTOR	UN9210J-(TX).SO		
Q13	8-729-037-71	TRANSISTOR	UN9210J-(TX).SO		
Q14	8-729-037-89	TRANSISTOR	2SC4627J-C (TX).SO		
Q15	8-729-425-46	TRANSISTOR	XP4315-TXE		
Q16	8-729-013-60	TRANSISTOR	UN9216J-(TX).SO		
Q17	8-729-800-71	TRANSISTOR	2SB1295-UL6-TB		
Q18	8-729-427-72	TRANSISTOR	XP4501-TXE		
Q19	8-729-426-36	TRANSISTOR	XP1215-TXE		
Q20	8-729-037-71	TRANSISTOR	UN9210J-(TX).SO		
Q301	8-729-800-71	TRANSISTOR	2SB1295-UL6-TB		
Q302	8-729-037-71	TRANSISTOR	UN9210J-(TX).SO		
Q303	8-729-426-36	TRANSISTOR	XP1215-TXE		
Q304	8-729-037-62	TRANSISTOR	UN9114J-(TX).SO		
Q305	8-729-426-36	TRANSISTOR	XP1215-TXE		
Q601	8-729-037-71	TRANSISTOR	UN9210J-(TX).SO		
Q801	8-729-800-37	TRANSISTOR	2SD1048X6-TB		
Q802	8-729-400-55	TRANSISTOR	2SD1328-S-TX		
Q803	8-729-800-71	TRANSISTOR	2SB815B7-TB		
Q804	8-729-800-71	TRANSISTOR	2SB815B7-TB		
Q805	8-729-037-71	TRANSISTOR	UN9210J-(TX).SO		
		< RESISTOR >			
R1	1-216-841-91	METAL CHIP	47K	5%	1/16W
R2	1-216-823-91	METAL CHIP	1.5K	5%	1/16W
R3	1-216-809-11	METAL CHIP	100	5%	1/16W
R4	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R5	1-216-821-11	METAL CHIP	1K	5%	1/16W
R6	1-216-817-11	METAL CHIP	470	5%	1/16W
R7	1-216-845-11	METAL CHIP	100K	5%	1/16W
R8	1-216-853-11	METAL CHIP	470K	5%	1/16W
R9	1-216-817-11	METAL CHIP	470	5%	1/16W
R10	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R11	1-216-833-11	RES,CHIP	10K	5%	1/16W
R12	1-216-833-11	RES,CHIP	10K	5%	1/16W
R13	1-216-837-11	METAL CHIP	22K	5%	1/16W
R14	1-216-845-11	METAL CHIP	100K	5%	1/16W
R15	1-216-833-11	RES,CHIP	10K	5%	1/16W
R16	1-216-853-11	METAL CHIP	470K	5%	1/16W
R17	1-216-821-11	METAL CHIP	1K	5%	1/16W
R18	1-216-849-11	METAL CHIP	220K	5%	1/16W
R19	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R20	1-216-821-11	METAL CHIP	1K	5%	1/16W
R21	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R22	1-216-845-11	METAL CHIP	100K	5%	1/16W
R23	1-216-821-11	METAL CHIP	1K	5%	1/16W
R24	1-216-821-11	METAL CHIP	1K	5%	1/16W
R25	1-216-845-11	METAL CHIP	100K	5%	1/16W
R26	1-216-833-11	RES,CHIP	10K	5%	1/16W
R27	1-216-853-11	METAL CHIP	470K	5%	1/16W
R28	1-216-845-11	METAL CHIP	100K	5%	1/16W
R29	1-216-839-11	METAL CHIP	33K	5%	1/16W
R30	1-216-833-11	RES,CHIP	10K	5%	1/16W
R31	1-216-843-11	METAL CHIP	68K	5%	1/16W
R32	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R33	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R34	1-216-857-11	METAL CHIP	1M	5%	1/16W
R35	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R36	1-216-849-11	METAL CHIP	220K	5%	1/16W
R37	1-216-857-11	METAL CHIP	1M	5%	1/16W
R38	1-216-853-11	METAL CHIP	470K	5%	1/16W
R39	1-216-815-11	METAL CHIP	330	5%	1/16W
R40	1-216-833-11	RES,CHIP	10K	5%	1/16W
R41	1-218-871-11	RES,CHIP	10K	0.5%	1/16W
R42	1-218-839-11	RES,CHIP	470	0.5%	1/16W
R43	1-216-849-11	METAL CHIP	220K	5%	1/16W
R44	1-216-851-11	METAL CHIP	330K	5%	1/16W
R45	1-216-855-11	METAL CHIP	680K	5%	1/16W
R46	1-216-821-11	METAL CHIP	1K	5%	1/16W
R47	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R48	1-218-863-11	RES,CHIP	4.7K	0.5%	1/16W
R49	1-218-911-11	RES,CHIP	470K	0.5%	1/16W
R50	1-218-855-11	RES,CHIP	2.2K	0.5%	1/16W
R51	1-218-847-11	RES,CHIP	1K	0.5%	1/16W
R52	1-218-859-11	RES,CHIP	3.3K	0.5%	1/16W
R53	1-218-859-11	RES,CHIP	3.3K	0.5%	1/16W
R54	1-218-859-11	RES,CHIP	3.3K	0.5%	1/16W
R55	1-218-863-11	RES,CHIP	4.7K	0.5%	1/16W
R56	1-218-875-11	RES,CHIP	15K	0.5%	1/16W
R58	1-216-833-11	RES,CHIP	10K	5%	1/16W
R59	1-216-833-11	RES,CHIP	10K	5%	1/16W
R60	1-216-833-11	RES,CHIP	10K	5%	1/16W
R61	1-216-833-11	RES,CHIP	10K	5%	1/16W
R62	1-216-845-11	METAL CHIP	100K	5%	1/16W
R63	1-216-853-11	METAL CHIP	470K	5%	1/16W
R64	1-216-853-11	METAL CHIP	470K	5%	1/16W
R65	1-216-849-11	METAL CHIP	220K	5%	1/16W
R66	1-216-839-11	METAL CHIP	33K	5%	1/16W
R67	1-216-839-11	METAL CHIP	33K	5%	1/16W
R68	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R69	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R70	1-218-895-11	RES,CHIP	100K	0.5%	1/16W
R71	1-218-851-11	RES,CHIP	1.5K	0.5%	1/16W
R72	1-218-871-11	RES,CHIP	10K	0.5%	1/16W

Ref. No.	Part No.	Description			Remark
R73	1-218-831-11	RES,CHIP	220	0.5%	1/16W
R74	1-218-875-11	RES,CHIP	15K	0.5%	1/16W
R75	1-218-839-11	RES,CHIP	470	0.5%	1/16W
R76	1-218-875-11	RES,CHIP	15K	0.5%	1/16W
R77	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R101	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R102	1-216-837-11	METAL CHIP	22K	5%	1/16W
R103	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R104	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R105	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R106	1-216-811-11	METAL CHIP	150	5%	1/16W (EXCEPT FX673: FR)
R106	1-216-821-11	METAL CHIP	1K	5%	1/16W (FX673: FR)
R107	1-216-837-11	METAL CHIP	22K	5%	1/16W
R108	1-216-811-11	METAL CHIP	150	5%	1/16W
R109	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R110	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R111	1-216-849-11	METAL CHIP	220K	5%	1/16W
R112	1-216-807-11	METAL CHIP	68	5%	1/16W (FX673: FR)
R201	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R202	1-216-837-11	METAL CHIP	22K	5%	1/16W
R203	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R204	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R205	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R206	1-216-811-11	METAL CHIP	150	5%	1/16W (EXCEPT FX673: FR)
R206	1-216-821-11	METAL CHIP	1K	5%	1/16W (FX673: FR)
R207	1-216-837-11	METAL CHIP	22K	5%	1/16W
R208	1-216-811-11	METAL CHIP	150	5%	1/16W
R209	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R210	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R211	1-216-849-11	METAL CHIP	220K	5%	1/16W
R212	1-216-807-11	METAL CHIP	68	5%	1/16W (FX673: FR)
R301	1-216-849-11	METAL CHIP	220K	5%	1/16W
R302	1-216-833-11	RES,CHIP	10K	5%	1/16W
R303	1-216-835-11	METAL CHIP	15K	5%	1/16W
R304	1-216-837-11	METAL CHIP	22K	5%	1/16W
R305	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R306	1-216-851-11	METAL CHIP	330K	5%	1/16W
R307	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R308	1-218-887-11	RES,CHIP	47K	0.5%	1/16W
R309	1-216-841-11	METAL CHIP	47K	5%	1/16W
R310	1-216-845-11	METAL CHIP	100K	5%	1/16W
R311	1-216-841-11	METAL CHIP	47K	5%	1/16W
R312	1-216-845-11	METAL CHIP	100K	5%	1/16W
R313	1-218-899-11	RES,CHIP	150K	0.5%	1/16W
R601	1-216-837-11	METAL CHIP	22K	5%	1/16W
R602	1-216-809-11	METAL CHIP	100	5%	1/16W
R603	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R604	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R605	1-216-833-11	RES,CHIP	10K	5%	1/16W
R607	1-216-845-11	METAL CHIP	100K	5%	1/16W
R801	1-216-849-11	METAL CHIP	220K	5%	1/16W
R802	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R803	1-216-817-11	METAL CHIP	470	5%	1/16W
R804	1-216-805-11	METAL CHIP	47	5%	1/16W
R805	1-216-819-11	METAL CHIP	680	5%	1/16W
R806	1-216-819-11	METAL CHIP	680	5%	1/16W
R807	1-216-845-11	METAL CHIP	100K	5%	1/16W

< COMPOSITION CIRCUIT BLOCK >

RB1	1-233-811-21	RES, NETWORK 470K (3216)
RB601	1-233-873-21	RES, NETWORK 220K (CHIP TYPE) (3216)

< VARIABLE RESISTOR >

RV1	1-223-587-11	RES, ADJ, CARBON 22K
RV301	1-225-684-21	RES, VAR, CARBON 30K/30K (VOL)
RV601	1-223-584-11	RES, ADJ, CARBON 2.2K

< SWITCH >

S1	1-771-475-21	SWITCH, SLIDE (DIRECTION)
S2	1-572-922-11	SWITCH, SLIDE (HOLD)
S3	1-771-053-21	SWITCH, KEY BOARD (■ RADIO OFF)
S4	1-771-053-21	SWITCH, KEY BOARD (TUNE/PRESET +, FF AMS)
S5	1-771-053-21	SWITCH, KEY BOARD (TUNE/PRESET -, REW AMS)
S6	1-771-053-21	SWITCH, KEY BOARD (MENU)
S7	1-771-053-21	SWITCH, KEY BOARD (SET)
S8	1-771-053-21	SWITCH, KEY BOARD (BAND, RADIO ON)
S9	1-771-053-21	SWITCH, KEY BOARD (◀▶ REPEAT)
S10	1-771-053-21	SWITCH, KEY BOARD (ENTER, COUNTER RESET)

< TRANSFORMER >

T1	1-416-943-21	COIL (AM OSC)
T2	1-416-942-21	COIL (AM IF)
T801	1-423-745-11	TRANSFORMER, DC-DC CONVERTER

< THERMISTOR >

THP601	1-810-794-11	THERMISTOR, POSITIVE

< VIBRATOR >

X1	1-767-357-11	FILTER, CERAMIC (10.7MHz)
X2	1-579-615-11	VIBRATOR, CRYSTAL (75kHz)

****

MISCELLANEOUS
****

HP901	1-500-576-11	HEAD, MAGNETIC (PLAYBACK)
M601	1-763-166-12	MOTOR (CAPSTAN/REEL)
PM901	1-454-674-32	SOLENOID, PLUNGER
S901	1-762-553-11	SWITCH, LEAF (TAPE DETECT, ATS)

****

ACCESSORIES & PACKING MATERIALS
****

	1-418-019-11	REMOTE CONTROL UNIT (FX673)
	1-418-409-11	REMOTE CONTROL UNIT (RM-WMF21) (FX877)
⚠	1-528-252-21	BATTERY CHARGER (BC-7S) (FX673: UK, E, HK)
	1-528-299-41	BATTERY, NI-CD (NC-6WM) (FX673: CND)
⚠	1-528-434-13	BATTERY CHARGER (BC-7SG) (FX673: AUS)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
	1-528-543-11	BATTERY, NICKEL CADMIUM (NC-6WM)	(FX673: E, EA, HK, AUS/FX877: CH)
	1-528-543-22	BATTERY, NICKEL CADMIUM (NC-6WM)	(FX673: AEP, UK. E, FR, EE, EA, HK, AUS/FX877)
⚠	1-528-580-21	BATTERY CHARGER (BC-7HT)	(FX877: JE)
⚠	1-528-661-14	BATTERY CHARGER (BC-7DR)	(FX877: KR)
⚠	1-528-713-21	BATTERY CHARGER (BC-7DC)	(FX673: CND)
⚠	1-528-744-23	BATTERY CHARGER (BC-7DY)	(FX673: AEP, FR, EE, EA)
⚠	1-528-822-11	BATTERY CHARGER (BC-7DN)	(FX877: CH)
⚠	1-569-007-11	ADAPTOR, CONVERSION 2P	(FX877: JE)
	1-759-213-11	CASE, BATTERY	(FX673: CND, E, EA, HK, AUS/FX877)
	1-759-700-21	CASE, BATTERY	(FX673: AEP, UK, FR, EE)
	3-008-521-01	CASE, BATTERY CHARGE	(FX673/FX877: CH, KR)
	3-008-521-21	CASE, BATTERY CHARGE	(FX877: JE)
	3-029-236-01	CARD, WARRANTY (P10)	(FX877: JE)
	3-029-488-01	POUCH, CARRYING	
	3-864-890-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH)	(FX673: CND, AEP, UK, FR, EE, EA, AUS, CH)
	3-864-890-21	MANUAL, INSTRUCTION (SPANISH, PORTUGUESE)	(FX673: AEP, EE)
	3-864-890-31	MANUAL, INSTRUCTION (GERMAN, ITALIAN)	(FX673: AEP)
	3-864-890-41	MANUAL, INSTRUCTION (DUTCH, SWEDISH)	(FX673: AEP)
	3-864-890-51	MANUAL, INSTRUCTION (FINNISH)	(FX673: AEP)
	3-864-890-61	MANUAL, INSTRUCTION (POLISH, RUSSIAN)	(FX673: EE)
	3-864-890-71	MANUAL, INSTRUCTION (ENGLISH, CHINESE)	(FX673: E, HK)
	3-864-890-81	MANUAL, INSTRUCTION (ARABIC, CHINESE)	(FX673: EA, CH)
	3-866-189-11	MANUAL, INSTRUCTION (ENGLISH, KOREAN)	(FX877: KR)
	3-866-189-21	MANUAL, INSTRUCTION (JAPANESE, ENGLISH, KOREAN, CHINESE)	(FX877: JE)
	3-866-189-31	MANUAL, INSTRUCTION (ENGLISH, CHINESE)	(FX877: CH)
	8-953-272-90	HEADPHONE MDR-ED136SP//K SET	(FX673: AEP, UK, E, FR, CET, EA, HK, AUS/FX877: KR)
	8-953-304-90	RECEIVER MDR-E805SP SET	(FX673: CND/FX877: CH, JE)

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