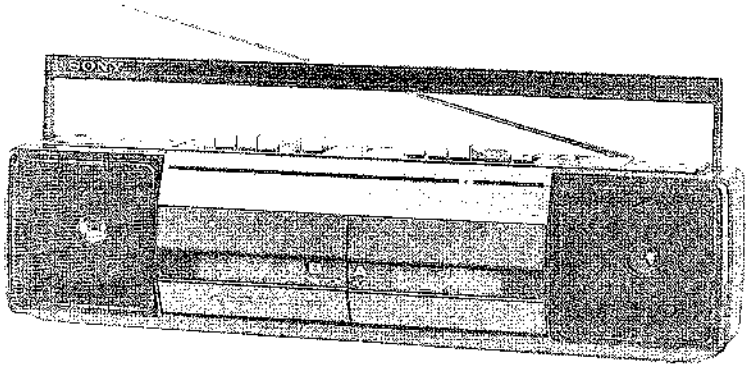
CFS-W301

SERVICE MANUAL

US Model
Canadian Model



SPECIFICATIONS

Tape Transport Mechanism Type	MF-W301 PB-75D (Deck A)
	MF-W301 RP-75D (Deck B)

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 3.2-ohm loads, both channels driven, from 150 to 10,000 Hz; rated 1.7 W per channel minimum RMS power, with no more than 10% total harmonic distortion.

OTHER SPECIFICATIONS

Frequency range	FM 87.6–108 MHz AM 530–1605 kHz
Antennas	FM: Telescopic antenna AM: Built-in ferrite bar antenna
Frequency response	80–10,000 Hz
Speakers	Full-range: 10 cm (4 inches) dia. × 2
Power output	2.5 W + 2.5 W (with 10% harmonic distortion at AC operation)
Inputs	MIX MIC input jack (minijack) Mixing: sensitivity 4.4 mV for low impedance External mic: sensitivity 0.775 mV for low impedance
Outputs	Headphones jacks (stereo minijack) for 8–300 ohm impedance headphones
Power requirements	120 V AC, 60 Hz 9 V DC, six size D (R20) batteries
Power consumption	14 W in AC operation

Battery life

Batteries	FM recording
Sony SUM-1 (NS)	Approx. 15
Sony AM1 alkaline	Approx. 26

(hours)

Dimensions	Approx. 530 × 145 × 122 mm (w/h/d) (20⅞ × 5¾ × 4⅞ inches) incl. projecting parts and controls, not incl. handle
Weight	Approx. 3.5 kg (7 lb 11 oz) incl. batteries
Accessory supplied	AC power cord (1)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND 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 TRAME ET 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.

FM/AM
STEREO CASSETTE-CORDER

SONY®

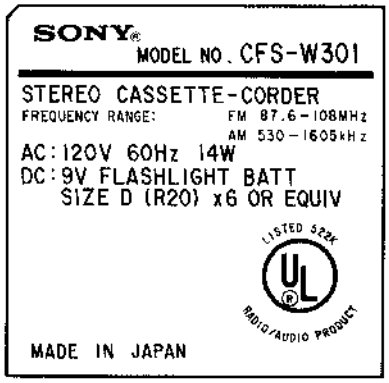
TC

TABLE OF CONTENTS

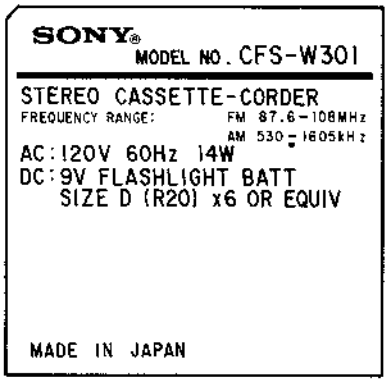
MODEL IDENTIFICATION

– Specification Label –

US model



Canadian model



SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

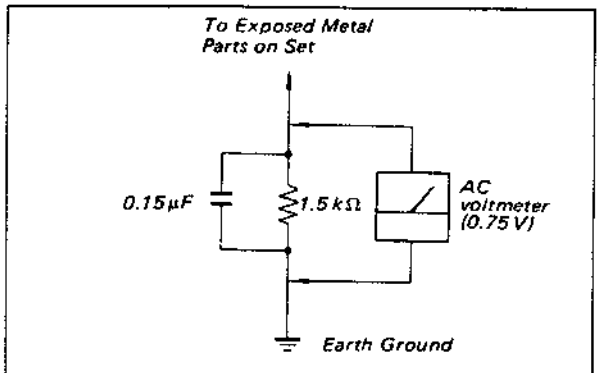
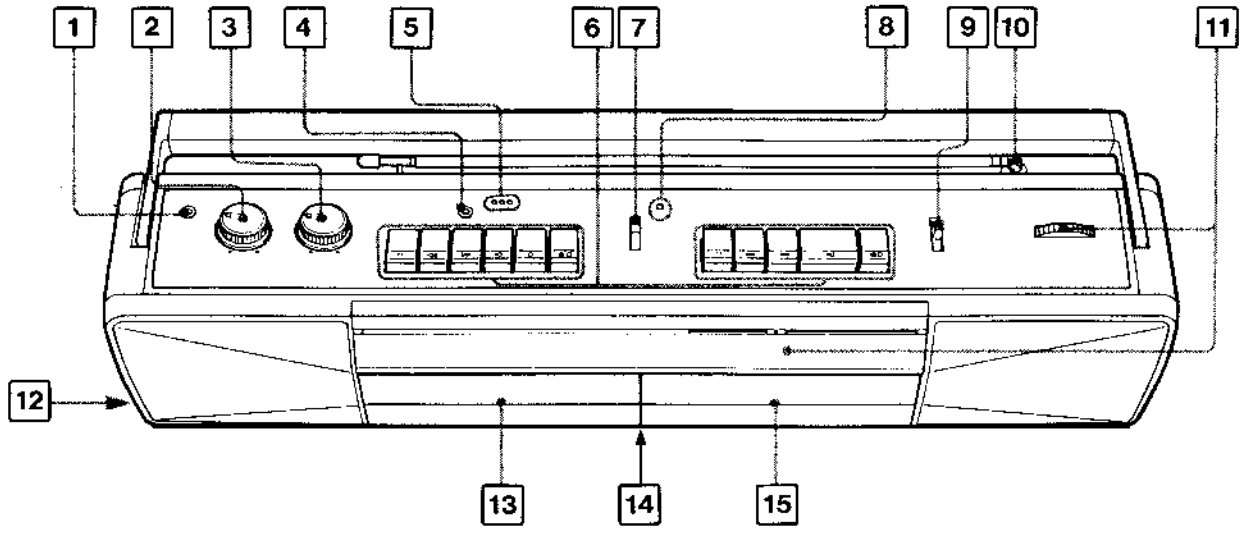


Fig. A. Using an AC voltmeter to check AC leakage.

PARTS IDENTIFICATION



1 **PHONES (headphones) jack**

2 **VOLUME control**

3 **TONE control**

4 **MIX MIC (external microphone) jack**
Minijack to record or mix sound from an external microphone.

5 **MIC (built-in microphone)**

6 **Tape operation buttons (deck A and B)**
- ❚❚ **PAUSE**
- |◀◀ **FF/CUE** (fast-forward/cue) button
- ▶▶ **REW/REVIEW** (rewind/review) button
  (Note: ◀◀ and ▶▶ do NOT release automatically at tape end. Press ⏏■ STOP/EJECT.)
- ◀ **PLAY** button
- ● **REC** (record) button (deck B only)—Pressing this will automatically depress ◀ PLAY.
- ⏏■ **STOP/EJECT button**

7 **FUNCTION selector**
Selects RADIO, TAPE or DUBBING. You can choose NORMAL or HIGH-SPEED dubbing.

8 **OPR/BATT (operation/battery) indicator**
Lights when unit is in use. Glows faintly to show low battery voltage (necessary to replace all batteries).

9 **BAND selector**

10 **Telescopic antenna**

11 **TUNING knob and dial scale**
Turn to select the frequency of the desired station.

12 **AC IN (power input) socket (side panel)**

13 **Cassette deck holder B**

14 **Battery compartment (rear panel)**

15 **Cassette deck holder A**

SECTION 1
ADJUSTMENTS

1-1. MECHANICAL ADJUSTMENTS PRECAUTION

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

   record/playback head　　pinch roller
   erase head　　rubber belts
   capstan

2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
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 unless otherwise noted.

Deck A, B

Torque Measurement

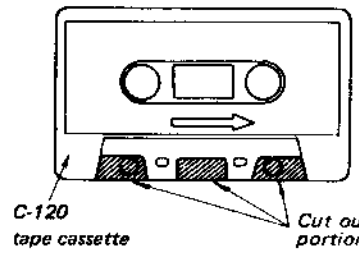
Mode	Torque meter	Meter reading
FWD	CQ-102C	25 to 50 g·cm (0.35 to 0.69 oz·inch)
FWD Back Tension		2 to 5 g·cm (0.028 to 0.069 oz·inch)
FF	CQ-201B	65 to 110 g·cm (0.9 to 1.53 oz·inch)
REW		65 to 110 g·cm (0.9 to 1.53 oz·inch)

Tape Tension Measurement

Mode	Tension meter	Meter reading
FWD	CQ-403A	more than 170 g (more than 6.09 oz)

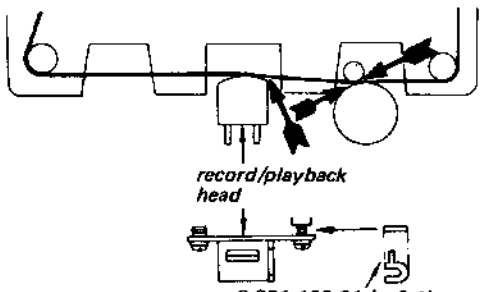
Head Height Adjustment

1. Prepare an adjustment cassette as shown below.



2. In record mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at portions of arrow.

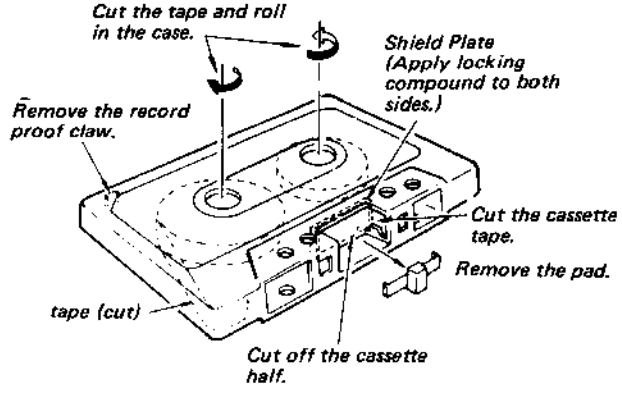
Deck A, B

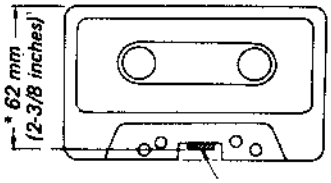


3-331-108-01 (t=0.1)
3-331-108-11 (t=0.2)
3-331-108-21 (t=0.3)
3-331-108-31 (t=0.4)
3-331-108-41 (t=0.5)
Shim Lug

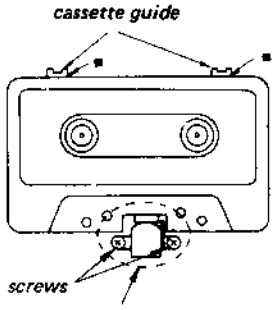
REC/PB Head Installation and Position Adjustment

1. Cassette Tape Preparation





*Spacer (Prepare a suitable material and install it so that the distance marked by * is 62 mm (2-3/8) inches) and apply locking compound.)*



2. Set the cassette tape into the set and install the head with the screws so that the edge of the head is in contact with the spacer when pressing the FWD button and FF button or the FWD button and REW button at the same time. (At this time, the portion marked by ■ is in contact with the cassette). Then, adjust the REC/PB head Azimuth Adjustment and apply locking compound to an installation screw.

1-2. TAPE RECORDER SECTION ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.

  FUNCTION: TAPE (RADIO OFF)
  VOLUME: mechanical mid
  TONE: mechanical mid

- Standard Input Level

Input terminal	MIC
source impedance	300 Ω
input level	0.77 mV (−60 dB)

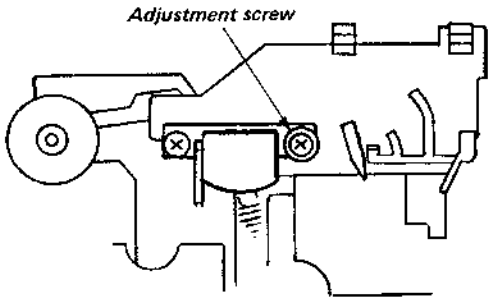
- Standard Output Level

Output terminal	PHONES	Speaker
load impedance	32 Ω	3.2 Ω
output level	0.25 V (−10 dB)	0.775 V (0 dB)

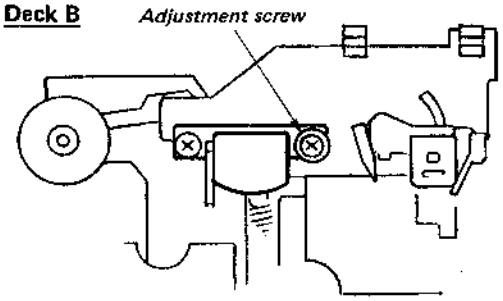
Test tape:

Type	Signal	Used for
P-4-A063	6.3 kHz, −10 dB	Azimuth Adjustment
WS-48A	3 kHz, 0 dB	Tape Speed Adjustment

Deck A



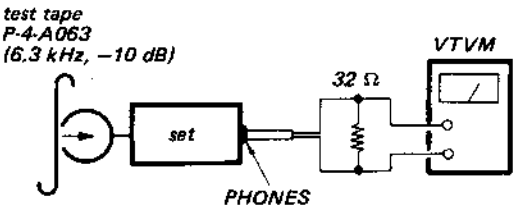
Deck B



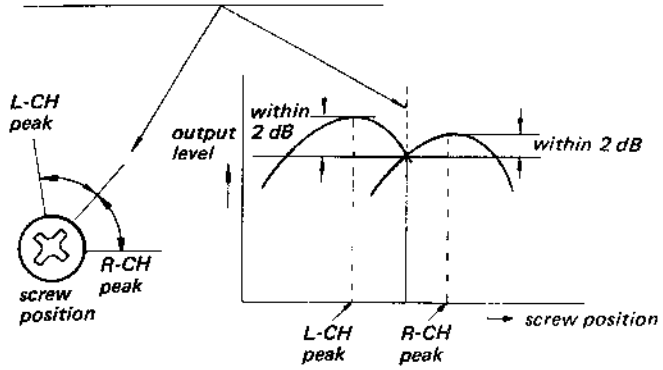
Record/playback Head Azimuth Adjustment

Procedure:

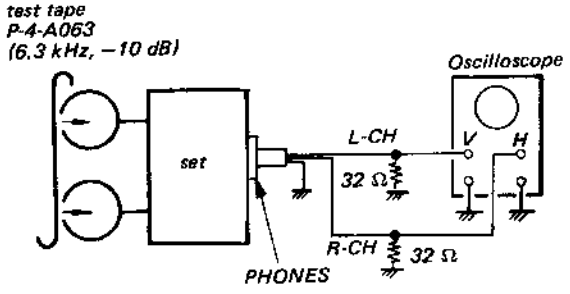
1. Mode: FWD playback

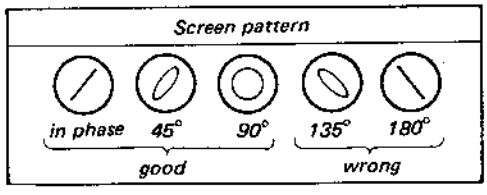


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 2 dB.



3. Phase Check
   Mode: playback

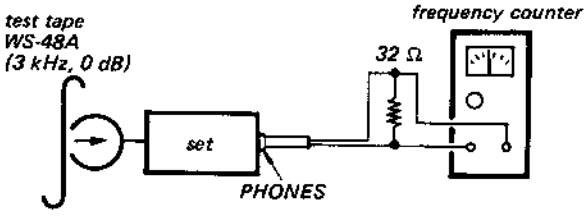




Tape Speed Adjustment (for both decks A and B)

Procedure

Mode: Playback



Specification (in the middle of the tape):

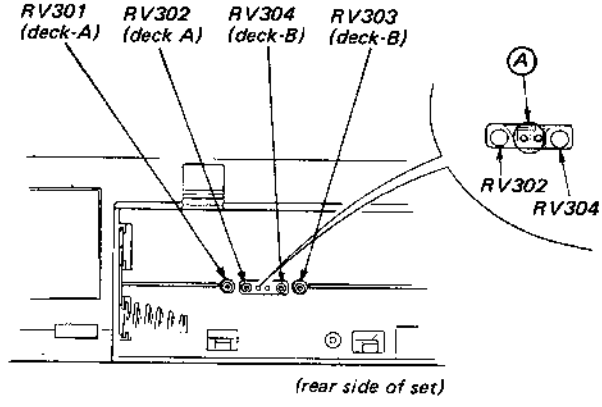
	Frequency counter
High speed	5970 ± 30 Hz
Normal speed	2985 ± 15 Hz

Frequency difference between the beginning and the end of the tape should be within ±1.5% (45 Hz).

1. Short Ⓐ point (TP301 and TP302) (It results in high speed mode.)
2. Insert WS-48A in deck-A (deck-B) and put into playback mode.
3. Adjust RV301 (RV304) for the specified reading on the frequency counter or the speed checker.
4. Open Ⓐ point (TP301 and TP302) (It results in normal speed mode.)
5. Insert WS-48A in deck-A (deck-B) and put into playback mode.
6. Adjust RV302 (RV303) for the specified reading on the frequency counter or the speed checker.

Note: Be sure to perform the high speed adjustment at first.

Adjustment Location: MAIN board



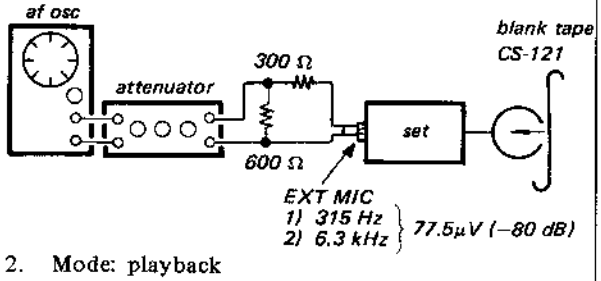
Record Bias Adjustment

Setting:

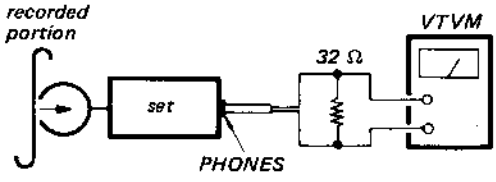
TONE: mechanical mid
FUNCTION: TAPE (RADIO OFF)

Procedure:

1. Mode: record

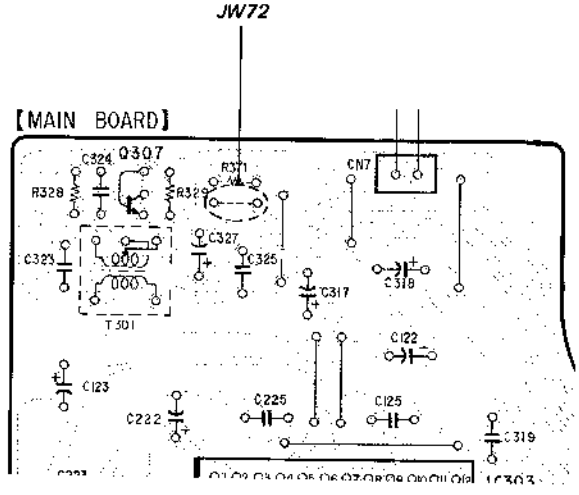


2. Mode: playback



3. Confirm that the 6.3 kHz playback signal level is 0 ± 3 dB relative to the 315 Hz signal. If necessary, adjust by connecting or disconnecting JW72.

Adjustment Location: MAIN board

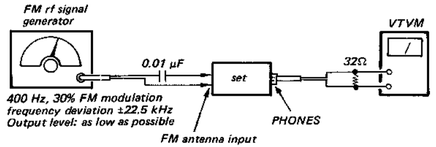


1-3. RADIO SECTION ELECTRICAL ADJUSTMENTS

FM SECTION

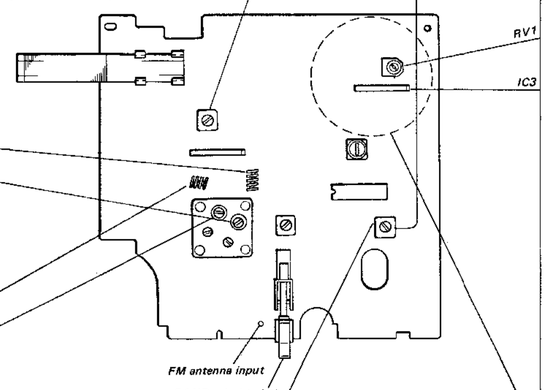
- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FUNCTION: RADIO
BAND: FM



FM IF ALIGNMENT 1	
Adjust for a maximum reading on VTVM.	
10.7 MHz	
T1	T2

[TUNER BOARD]

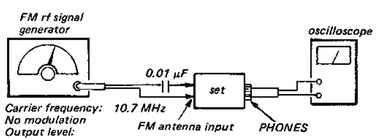


FM TRACKING ADJUSTMENT	
Adjust for a maximum rading on VTVM.	
86.5 MHz	L1
109.5 MHz	CT1

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
86.5 MHz	L2
109.5 MHz	CT2

FM IF Alignment 2

Procedure:

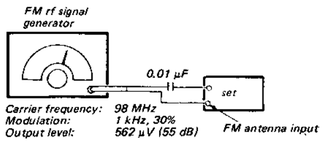


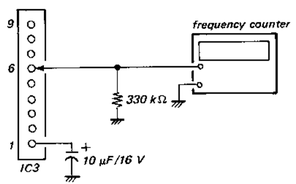
1. Turn T2 fully clockwise.
2. Make sure that sinewave appears three times when changing rf signal-generator frequency gradually.
3. Set rf signal-generator frequency for second sinewave, and precisely adjust rf signal-generator frequency for maximum reading on oscilloscope.
4. Adjust T2 for maximum reading and minimum noise on oscilloscope.

VCO Adjustment

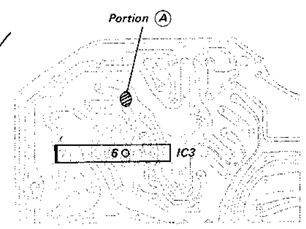
A) Regular Method

Procedure:



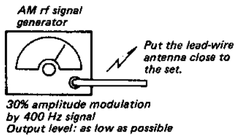


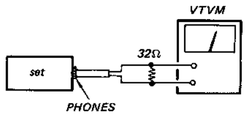
1. Connect an electrolytic capacitor (10 µF/16 V) between pin ① of IC3 and ground.
2. Unsolder the portion Ⓐ
3. Tune the set to 98 MHz.
4. Adjust RV1 for 38 kHz ±0.1 kHz on the counter.
5. Remove electrolytic capacitor mounted in step 1.
6. Solder the portion Ⓐ



AM SECTION

FUNCTION : RADIO
BAND : AM

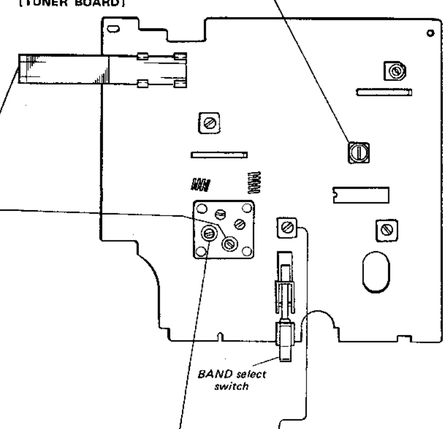




- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM IF ALIGNMENT	
Adjust for a maximum reading on VTVM.	
455 kHz	
T3	

[TUNER BOARD]



AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
600 kHz	L3
1,400 kHz	CT3

CT4	L4
1,680 kHz	520 kHz
Adjust for a maximum reading on VTVM.	
AM FREQUENCY COVERAGE ADJUSTMENT	

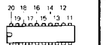
SECTION 3
DIAGRAMS

Semiconductors Lead Layout
– MAIN SECTION –

TA7282AP

2SC2001-L
2SC945-P
2SC933-P

CXA1115P



1SS133

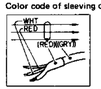
CXA1116S

RD6.8EB2
11E2

DTC114ES

SLR-34VR70F130

Note:
- Color code of sleeving over the end of the jacket.



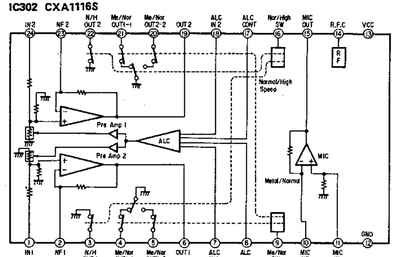
- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ⏦ : fusible resistor.

●SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
IC301	H-16	D303	H-9
IC302	H-12		
IC303	I-6	D308	J-15
		D317	G-12
		D801	A-4
Q101	I-6	D802	B-4
Q201	I-5	D803	B-4
Q301	H-14	D804	B-4
Q302	F-16		
Q303	I-9		
Q305	F-16		
Q306	H-9		
Q307	G-4		
Q310	F-17		
Q311	F-16		
Q312	F-13		
Q313	F-15		
Q314	F-14		
Q315	F-15		
Q320	F-12		

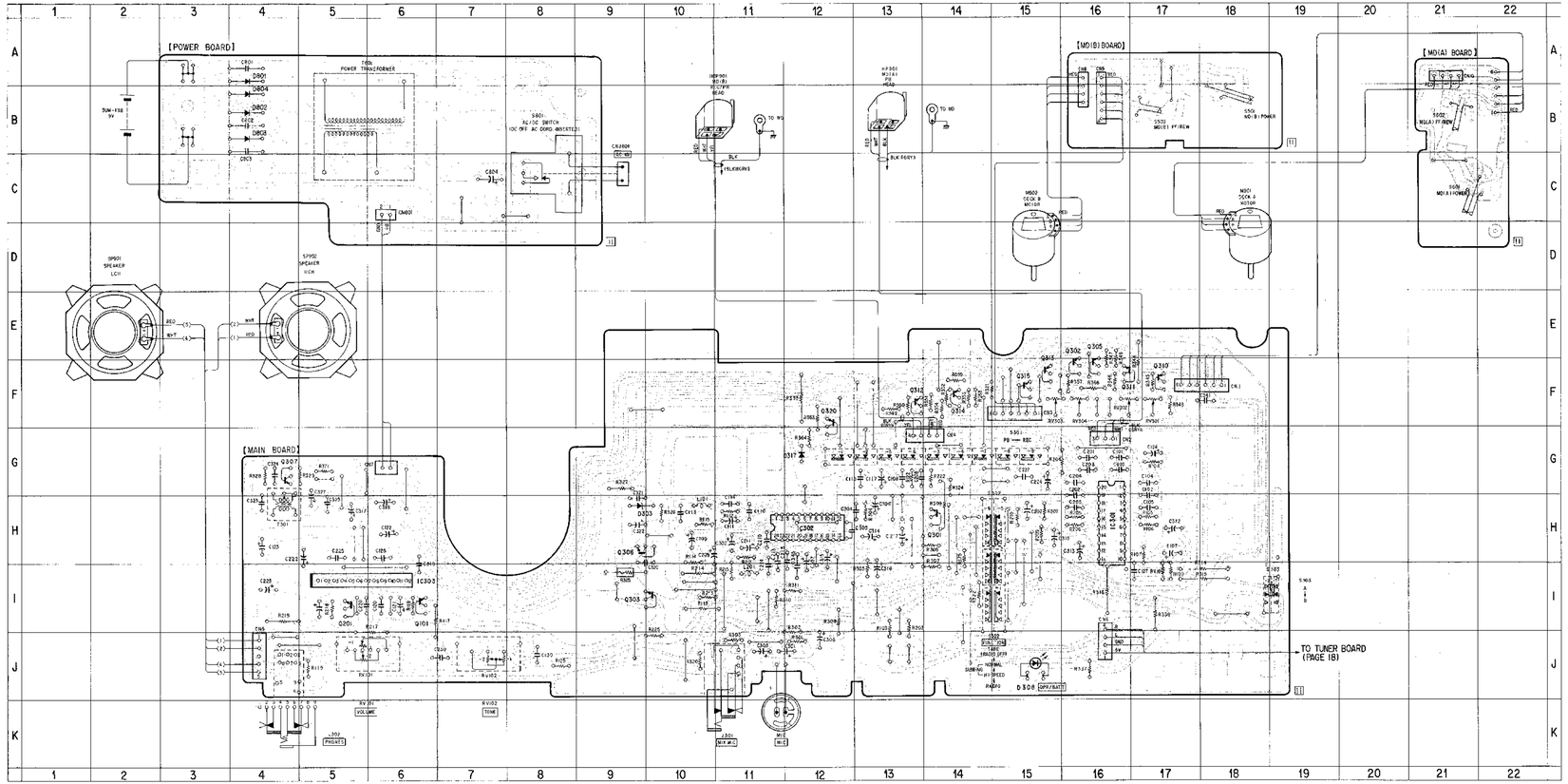
IC BLOCK DIAGRAM – MAIN SECTION –

IC302 CXA1116S



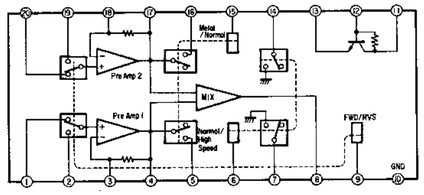
3-1. MOUNTING DIAGRAM – MAIN SECTION –

CFS-W301 CFS-W301

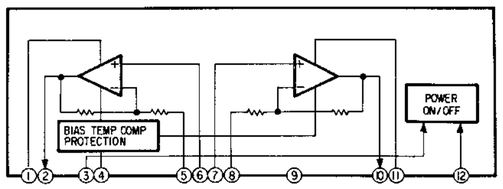


CFS-W301

IC301 CXA1115P



IC303 TA7282AP



Note:

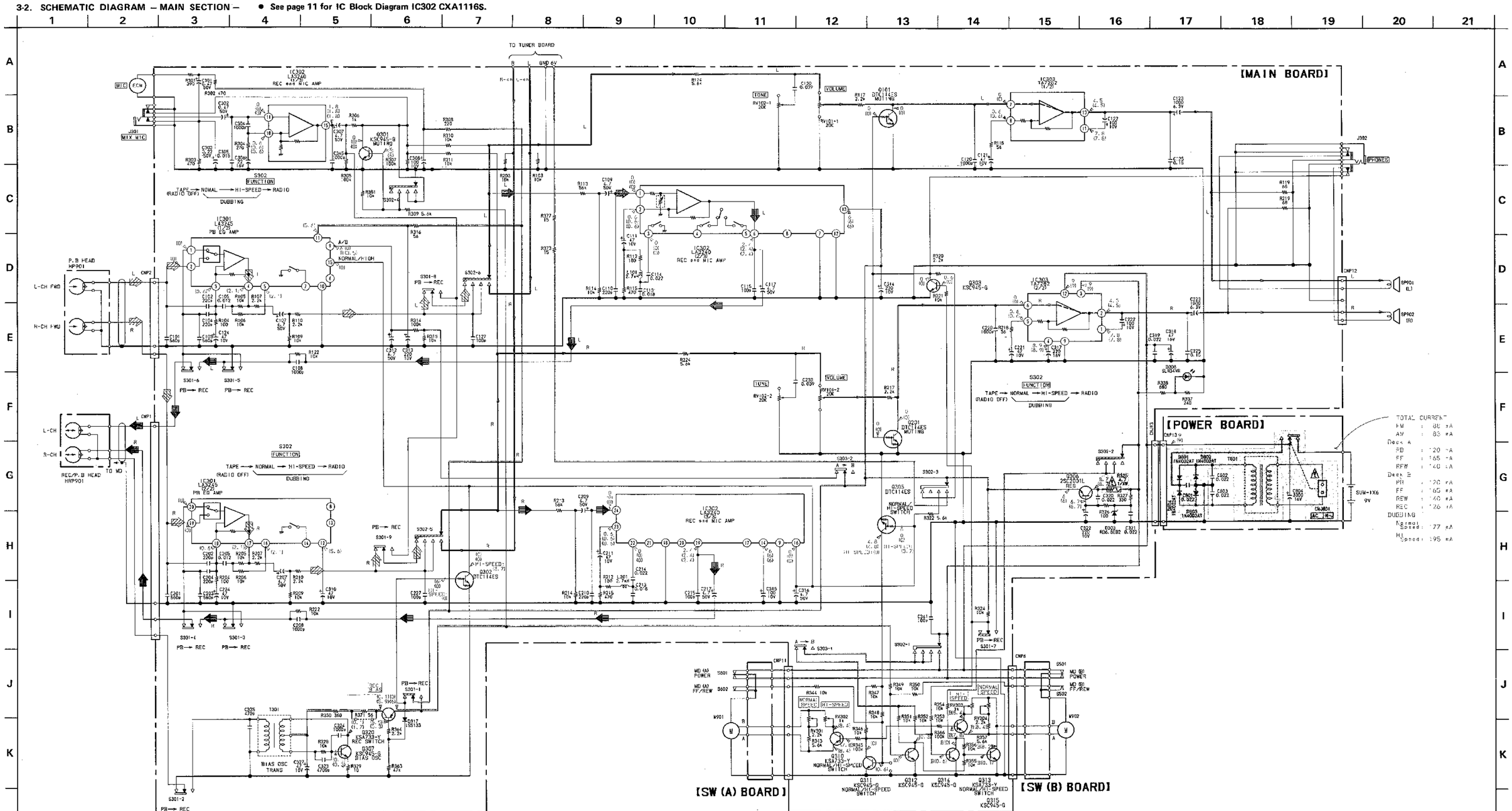
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- : fusible resistor.
- Switch with sliding contact indicated by hatched lines shows shorting type.

- : B+ bus.
- : adjustment for repair.
- Total current is measured with no cassette installed.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (50 kΩ/V).
  no mark: FM
  { } : PB
  < > : REC
- Voltage variations may be noted due to normal production tolerances.
- : FM signal path.
- : PB signal path.
- : REC signal path.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

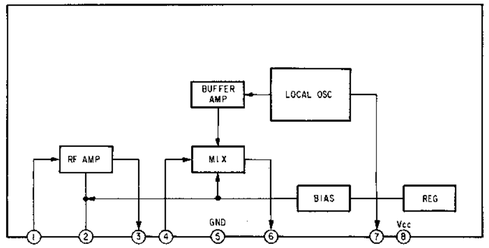
3-2. SCHEMATIC DIAGRAM – MAIN SECTION – • See page 11 for IC Block Diagram IC302 CXA1116S.



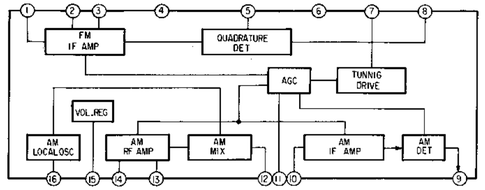
CFS-W301 CFS-W301

IC BLOCK DIAGRAM – TUNER SECTION –

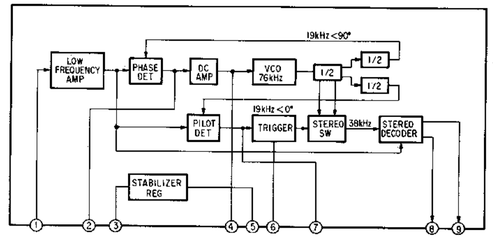
IC1 TA7358AP



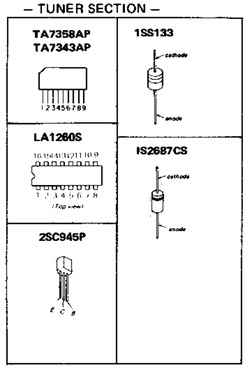
IC2 LA1260S



IC3 TA7343AP



- **Semiconductor Lead Layouts**
  – TUNER SECTION –



- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- ⬚ : indicates side identified with part number.

- **SEMICONDUCTOR LOCATION**
  – TUNER SECTION –

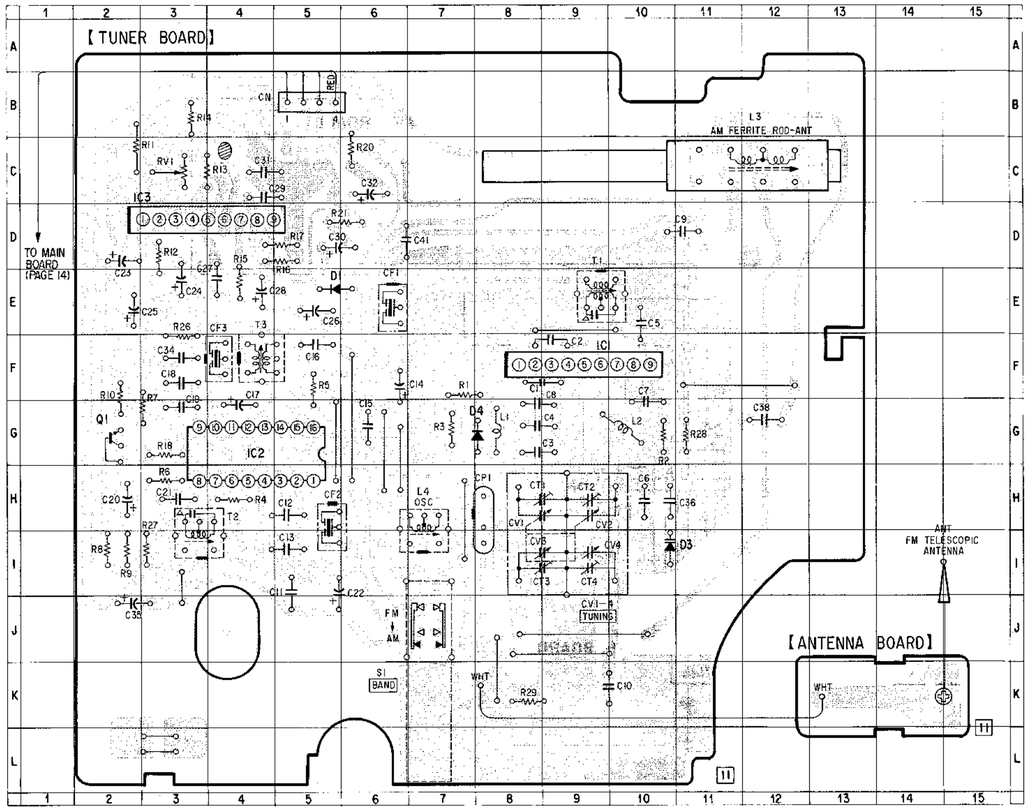
Ref. No.	Location
IC1	F-9
IC2	G-4
IC3	D-3
Q1	G-2
D1	E-5
D3	I-10
D4	G-8

Note:

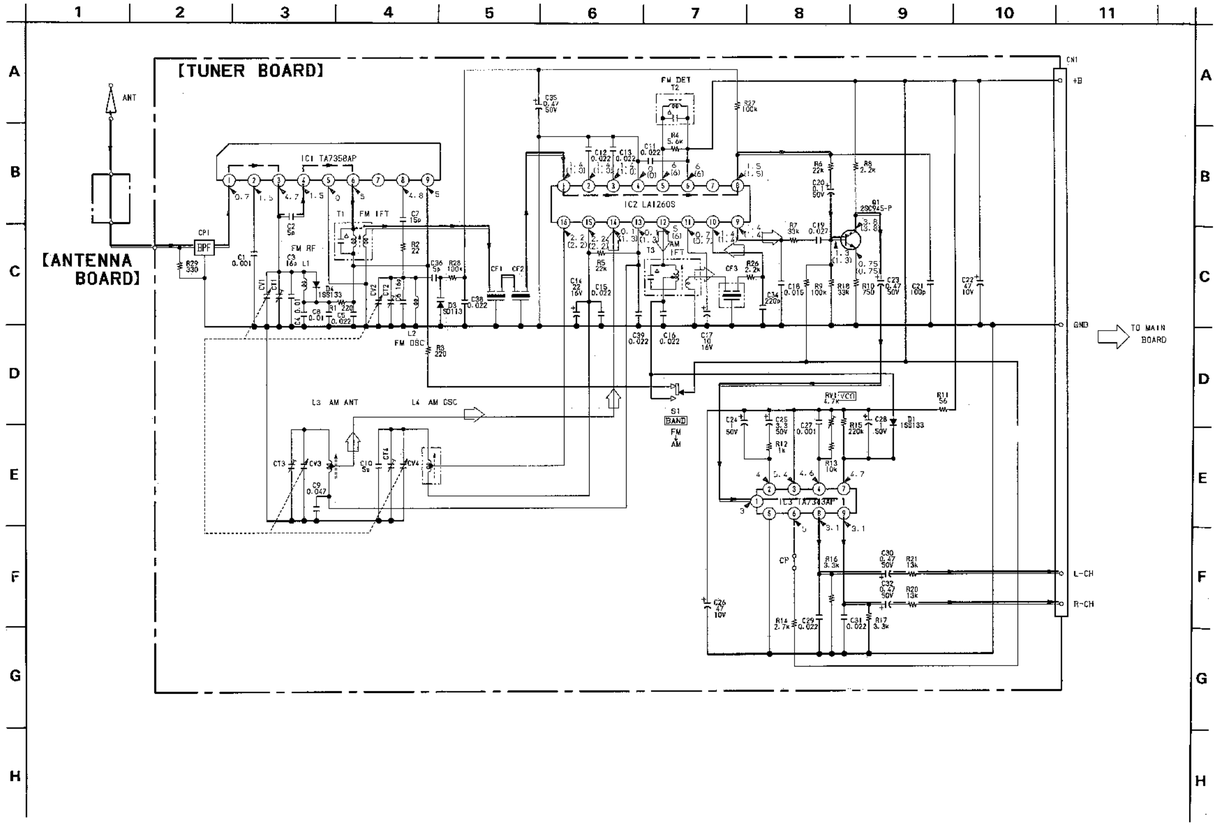
- All capacitors are in μF unless otherwise noted. pF: μμF
  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ▭▭ : B+ bus.
- ▭ : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (50 kΩ/V).
  No mark : FM
- Voltage variations may be noted due to normal production tolerances.
- ——▶ : FM signal path.
- ⇨ : AM signal path.

SEE ADDITIONAL INFORMATION

3-3. MOUNTING DIAGRAM – TUNER SECTION –



3-4. SCHEMATIC DIAGRAM – TUNER SECTION –



SECTION 3
EXPLODED VIEWS

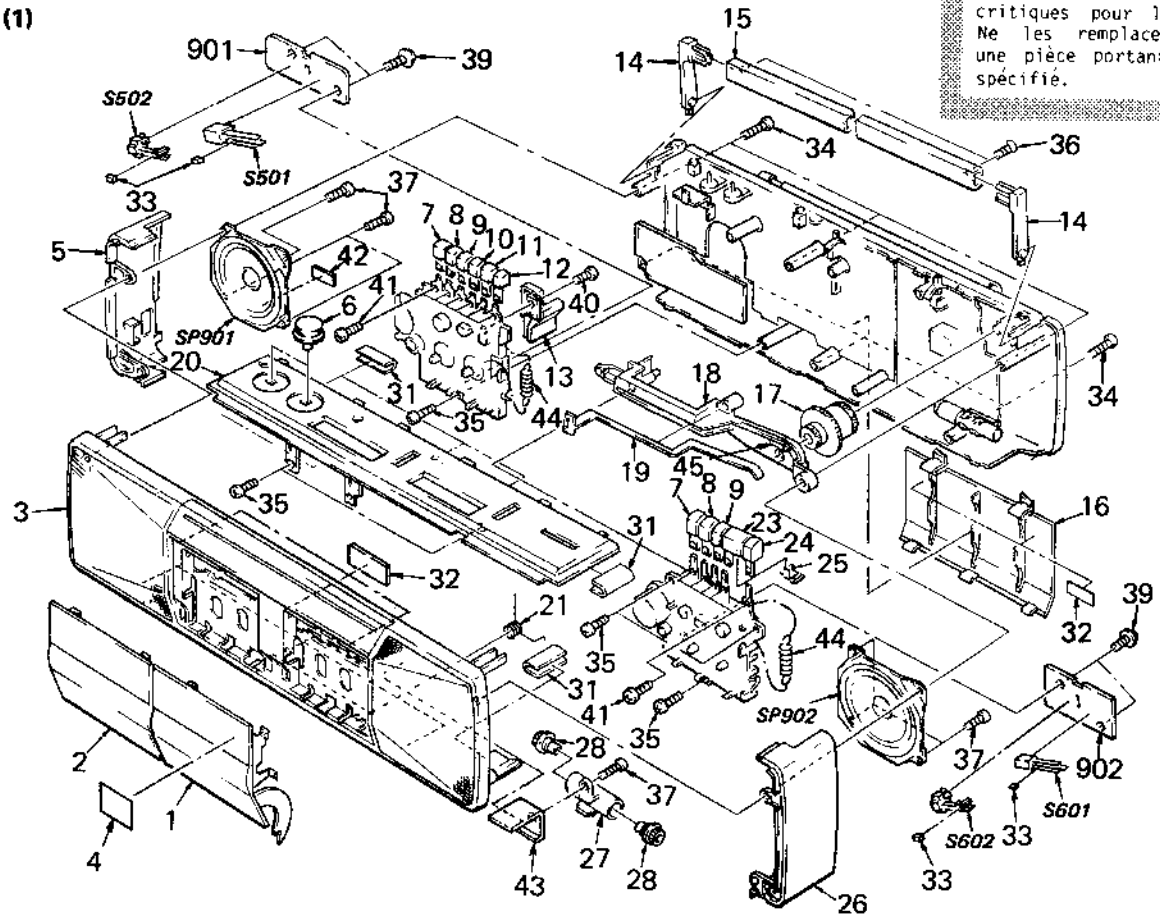
SEE ADDITIONAL INFORMATION

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color Indication of Appearance Parts
  Example: (RED) ..... KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts' Color

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

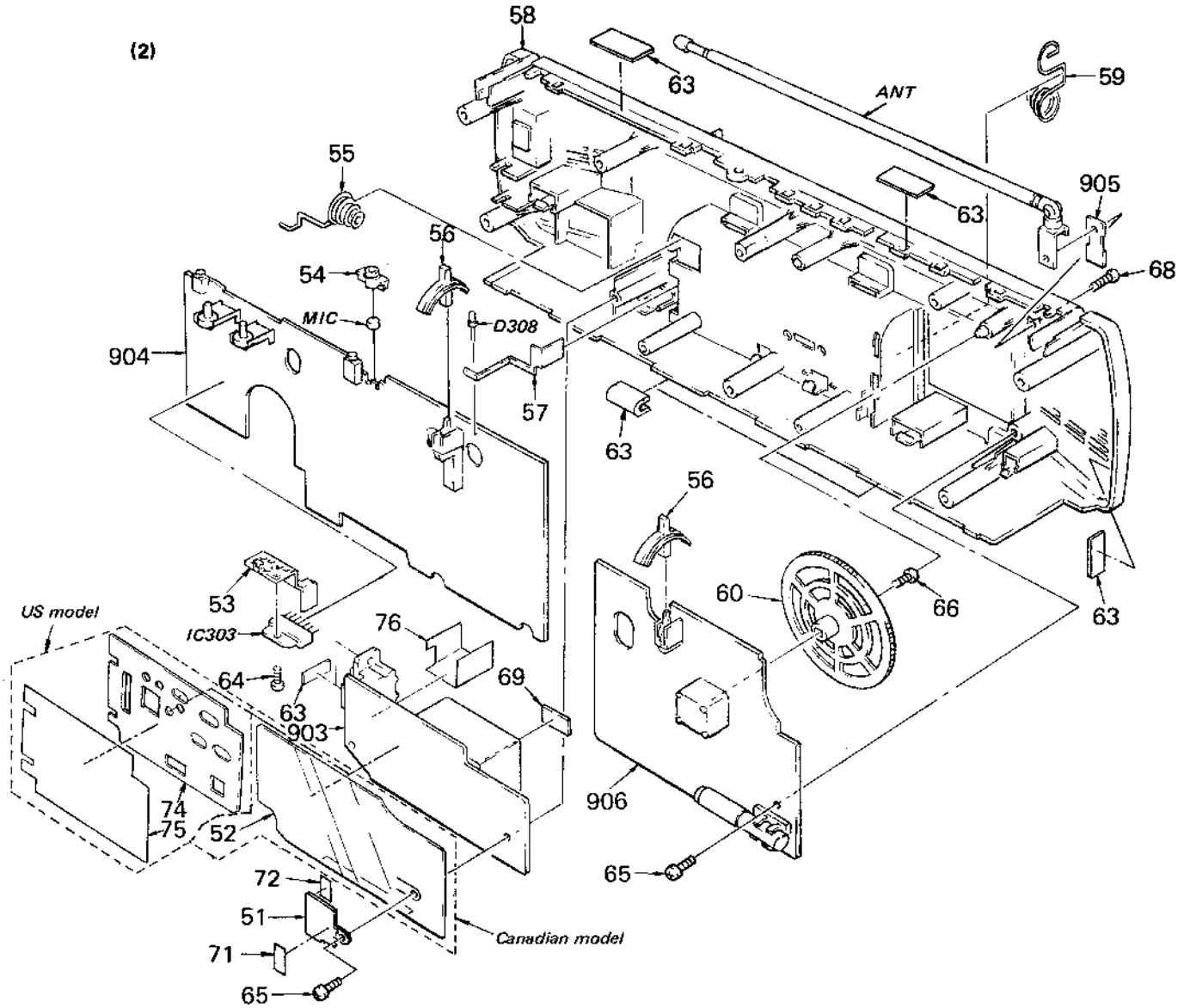
Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(1)



No.	Part No.	Description	Remarks
1	A-3247-276-A	HOLDER (RIGHT) ASSY, CASSETTE	
2	A-3247-275-A	HOLDER (LEFT) ASSY, CASSETTE	
3	A-3241-622-A	CABINET (FRONT) SUB ASSY	
4	3-703-710-01	STICKER, SONY SYMBOL (12)	
5	3-340-372-01	(BLACK)...PLATE (LEFT), SIDE (BLACK)	
	3-340-372-11	(BLUE)....PLATE (LEFT), SIDE (BLUE)	
6	3-340-362-01	KNOB, VOL	
7	3-340-370-01	BUTTON (A), PAUSE	
8	3-340-369-01	BUTTON (A), FF	
9	3-340-367-01	BUTTON (A), REW	
10	3-340-365-01	BUTTON (A), PLAY	
11	3-340-368-01	BUTTON (A), REC	
12	3-340-366-01	BUTTON (A), STOP	
13	3-339-308-01	LEVER, REC	
14	3-341-115-21	PLATE, SIDE, HANDLE	
15	3-326-454-81	(BLACK)...HANDLE (BLACK)	
	3-326-454-91	(BLUE)....HANDLE (BLUE)	
16	3-340-376-01	LID, BATTERY CASE	
17	3-339-329-01	KNOB, TUNING	
18	3-340-375-01	CHASSIS, DIAL	
19	3-339-324-01	RACK, POINTER	
20	3-340-379-01	(US:BLACK)...PANEL, CONTROL (BLACK)	
	3-340-379-11	(US:BLUE)....PANEL, CONTROL (BLUE)	
	3-340-379-21	(Canadian:BLACK)...PANEL, CONTROL(BLACK)	
	3-340-379-31	(Canadian:BLUE)....PANEL, CONTROL(BLUE)	
21	3-340-353-01	SPRING	
23	3-340-364-01	BUTTON (B), PLAY	
24	3-340-363-01	BUTTON (B), STOP	
25	3-340-357-01	SPRING	
26	3-340-371-01	(BLACK)...PLATE (RIGHT), SIDE (BLACK)	
	3-340-371-11	(BLUE)....PLATE (RIGHT), SIDE (BLUE)	
27	3-339-314-01	BRACKET, EJECT	
28	3-326-411-01	GEAR, EJECT	
32	3-831-441-11	CUSHION	
33	9-911-844-XX	SPACER, LEAF	
34	7-685-651-79	SCREW +BVTP 3X20 TYPE2	
35	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S	
36	7-685-246-19	SCREW +KTP 3X8 TYPE2 NON-SLIT	
37	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
39	7-687-233-11	SCREW (+ PTPWH) (2.6X6)	
40	7-621-259-55	SCREW +BVTT 2.6X8 (S)	
41	7-621-259-35	SCREW +PTT 2.6X5 (S)	
42	9-911-845-XX	(Canadian)...CUSHION	
43	*3-341-136-01	SUPPORT, EJECT BRACKET	
44	3-341-114-01	SPRING, TENSION	
901	*1-622-094-11	PC BOARD, SW (A)	
902	*1-622-095-11	PC BOARD, SW (B)	
S501	1-554-495-00	SWITCH, LEAF	
S502	1-570-012-11	SWITCH, LEAF	
S601	1-554-495-00	SWITCH, LEAF	
S602	1-570-012-11	SWITCH, LEAF	
SP901	1-503-798-11	SPEAKER (LEFT)	
SP902	1-503-798-11	SPEAKER (RIGHT)	

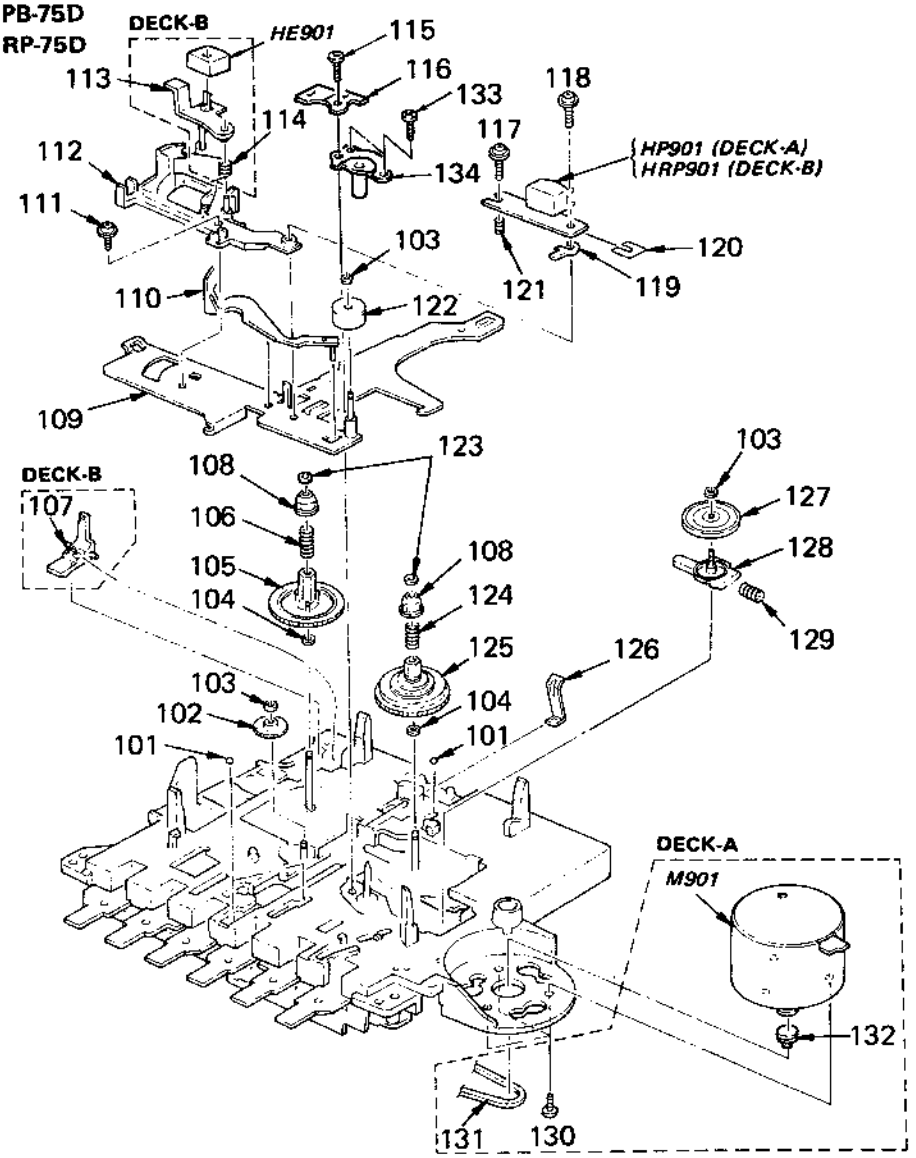
SEE ADDITIONAL INFORMATION



No.	Part No.	Description	Remarks
51	*3-340-354-01	CLAMP, POWER PC BOARD	
52	*3-340-351-01	(Canadian)...COVER, POWER	
53	*3-341-113-01	HEAT SINK	
54	3-340-350-01	CUSHION, MICROPHONE	
55	3-340-352-01	SPRING (-)	
56	3-339-328-01	KNOB, FUNCTION	
57	3-340-358-01	TERMINAL BOARD (+), BATTERY	
58	3-340-378-01	(US).....CABINET (REAR)	
	3-340-378-11	(Canadian)...CABINET (REAR)	
59	3-340-356-01	SPRING (+,-)	
60	3-339-304-01	DRUM, TUNING CAPACITOR	
63	3-831-441-11	CUSHION	
64	7-682-546-04	SCREW +BVTT 3X5 (S)	
65	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
66	7-621-770-87	SCREW +B 2.6X5	

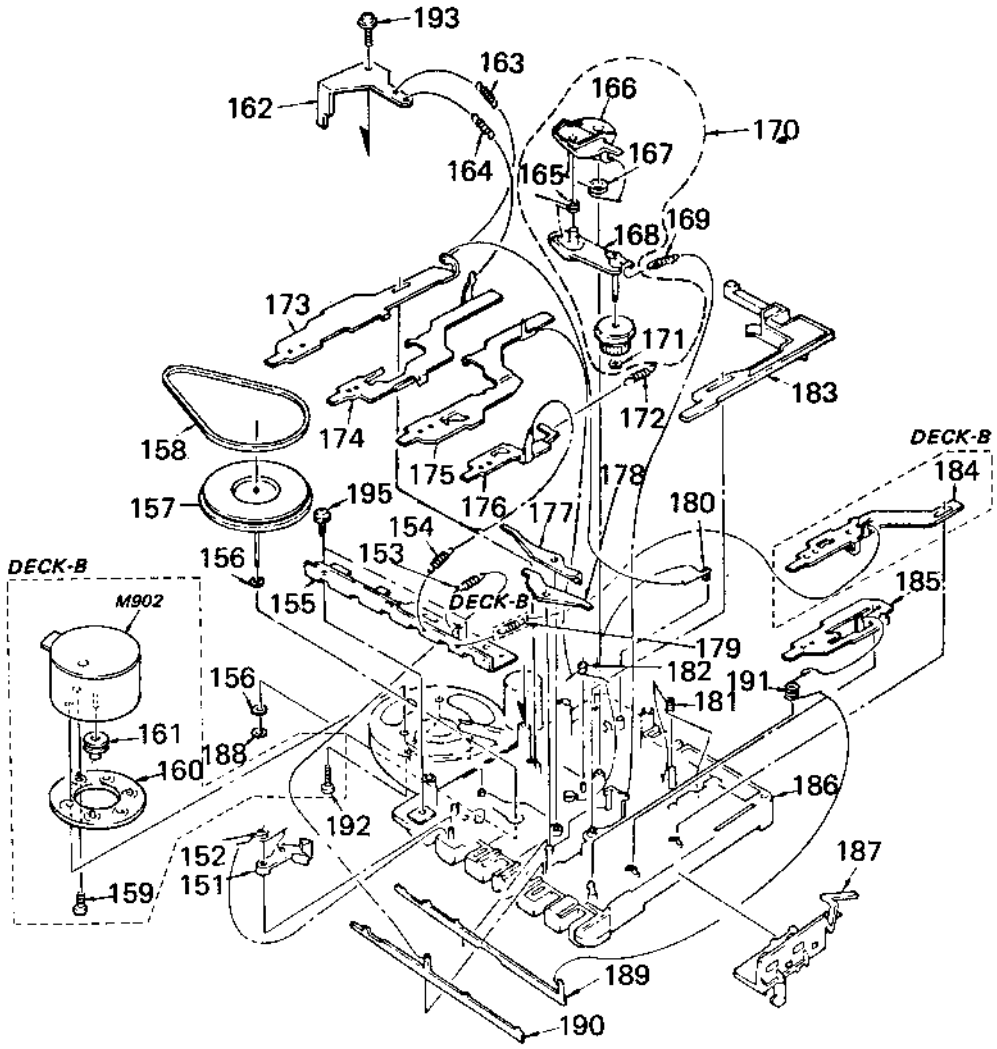
No.	Part No.	Description	Remarks
68	7-682-548-09	SCREW +B 3X8	
69	4-836-922-01	RETAINER, PHONO CORD	
71	*4-883-473-00	SPACER, CASSETTE LID	
72	9-911-840-XX	(Canadian)...CUSHION (A)	
73	7-685-648-79	SCREW +BVTP 3X12 TYPE 2 N-S	
74	3-341-140-01	(US)...INSULATOR, POWER PC BOARD	
75	3-341-139-01	(US)...SHEET, PROTECTION, POWER PC BOARD	
76	3-341-138-01	(US)...CLAMP, AC INLET	
903	*1-622-096-11	PC BOARD, POWER	
904	*A-3270-425-A	PC BOARD ASSY, MAIN	
905	*1-622-092-11	PC BOARD, ANTENNA	
906	*A-3266-396-A	PC BOARD ASSY, TUNER	
ANT	1-501-378-11	ANTENNA, TELESCOPIC	
D308	1-807-738-11	SLR-34VR7OF130 (LED)	
IC303	8-759-205-82	IC TA7282AP	
MIC	8-814-186-00	MICROPHONE UNIT (C-1014)	

(3) Deck A: MF-W301PB-75D
Deck B: MF-W301RP-75D



No.	Part No.	Description	Remarks
101	7-671-112-11	BALL, STEEL	
102	3-558-620-11	GEAR, REWIND	
103	3-307-948-01	WASHER, NYLON	
104	3-701-437-21	WASHER	
105	3-313-305-00	TABLE, REEL, SUPPLY	
106	3-313-344-00	SPRING, COMPRESSION	
107	3-313-357-00	(DECK B)...CLAW, REC PREVENTION	
108	3-313-333-00	CLAW, REEL	
109	X-3313-311-1	CHASSIS ASSY	
110	3-313-316-00	PULLEY	
111	7-621-255-35	SCREW (2MMX5), + PWH	
112	3-334-717-01	BRACKET (M), HEAD	
113	3-313-361-00	(DECK B)...ARM, ERASE HEAD	
114	3-313-339-00	(DECK B)...SPRING	
115	3-324-220-01	SCREW (B2.6), TAPPING	
116	*3-332-309-01	SPRING (B)	
117	3-701-465-00	SCREW, LOCK	
118	7-621-255-50	SCREW +B 2X8	
119	3-331-108-01	LUG (T), SEAM (t=0.1)	
	3-331-108-11	LUG (T), SEAM (t=0.2)	
	3-331-108-21	LUG (T), SEAM (t=0.3)	
	3-331-108-31	LUG (T), SEAM (t=0.4)	
	3-331-108-41	LUG (T), SEAM (t=0.5)	
120	3-578-138-01	SEAM (t=0.1)	
	3-578-138-11	SEAM (t=0.2)	
	3-578-138-21	SEAM (t=0.3)	
121	3-313-340-00	SPRING, COMPRESSION	
122	3-703-597-41	PINCH ROLLER, STANDARD	
123	3-558-708-01	WASHER, STOPPER	
124	3-313-345-00	SPRING, COMPRESSION	
125	A-3130-031-A	TABLE ASSY, REEL, TAKE-UP	
126	3-313-902-00	SPRING	
127	X-3313-307-0	PULLEY ASSY, FWD	
128	X-3313-301-0	BRACKET ASSY, T PULLEY	
129	3-573-464-00	SPRING, COMPRESSION	
130	7-621-259-35	(DECK A)...SCREW +P 2.6X5	
131	3-313-389-01	BELT	
132	X-3330-617-1	PULLEY (S), MOTOR ASSY	
133	3-318-203-71	SCREW (B1.7X5), TAPPING	
134	X-3319-945-1	BEARING ASSY, CAPSTAN	
HE901	8-658-096-02	(DECK B)...HEAD, ERASE EBF5-36	
HP901	1-543-283-11	(DECK A)...HEAD, MAGNETIC (REC/PB)	
HRP901	1-543-283-11	(DECK B)...HEAD, MAGNETIC (REC/PB)	
M901	1-541-330-11	(DECK A)...MOTOR (CW)	

(4)



No.	Part No.	Description	Remarks
151	3-313-322-02	LEVER (A), S.OFF	
152	3-313-323-00	SPRING	
153	3-313-343-00	SPRING, TENSION	
154	3-313-369-00	SPRING, TENSION	
155	*3-313-359-00	RETAINER, LEVER	
156	3-701-438-11	WASHER, 2.5	
157	X-3592-309-1	FLYWHEEL (E) ASSY	
158	3-313-389-01	BELT	
159	7-621-259-25	(DECK B)...SCREW +P 2.6X4	
160	3-330-679-01	(DECK B)...BRACKET (M), MOTOR	
161	X-3330-617-1	PULLEY (S), MOTOR ASSY	
162	*3-332-310-01	HOOK, SPRING	
163	3-313-349-00	SPRING, TENSION	
164	3-313-348-00	SPRING, TENSION	
165	3-313-313-00	SPRING	
166	3-313-314-00	LEVER (SI), FR	
167	3-313-315-00	SPRING	
168	X-3313-304-0	ARM ASSY, REW	
169	3-313-365-00	SPRING, TENSION	
170	A-3136-041-B	IDLER COMPLETE ASSY, FR	165-168,171
171	3-558-708-01	WASHER, STOPPER	
172	3-313-342-00	SPRING, TENSION	

No.	Part No.	Description	Remarks
173	*3-313-381-01	LEVER (B), PAUSE BUTTON	
174	*3-313-353-00	LEVER, FF BUTTON	
175	*3-313-354-00	LEVER, REW BUTTON	
176	*3-313-326-00	LEVER, FWD BUTTON	
177	*3-313-320-11	LEVER, RCP	
178	*3-313-321-00	LEVER, PREVENTION, RFR	
179	3-322-529-01	(DECK B)...SPRING, TENSION	
180	3-313-378-01	SPRING (A)	
181	3-313-327-00	SPRING	
182	3-313-338-00	SPRING	
183	3-313-356-00	BRAKE	
184	*3-313-350-00	(DECK B)...LEVER, REC BUTTON	
185	*3-313-325-00	LEVER, STOP BUTTON	
186	A-3102-092-A	CHASSIS ASSY, MECHANICAL	
187	3-313-380-01	CLAW (A), EJECT	
188	3-307-948-41	WASHER, NYLON	
189	*3-313-352-11	PLATE (B), LOCK	
190	*3-313-351-11	PLATE (A), LOCK	
191	3-313-331-00	SPRING	
192	3-324-219-01	SCREW, PAN	
193	7-687-233-11	SCREW (+ PTPWH) (2.6X6)	
M902	1-541-317-11	(DECK B)...MOTOR	

SECTION 4
ELECTRICAL PARTS LIST

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.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	*1-622-094-11	PC BOARD, SW (A)			
902	*1-622-095-11	PC BOARD, SW (B)			
903	*1-622-096-11	PC BOARD, POWER			
904	*A-3270-425-A	PC BOARD ASSY, MAIN			
905	*1-622-092-11	PC BOARD, ANTENNA			
906	*A-3266-396-A	PC BOARD ASSY, TUNER			
ANT	1-501-378-11	ANTENNA, TELESCOPIC			
C1	1-102-074-00	CERAMIC	0.001MF	10%	50V
C2	1-102-942-00	CERAMIC	5PF	0.5PF	50V
C3	1-102-952-00	CERAMIC	16PF	5%	50V
C4	1-101-004-00	CERAMIC	0.01MF		50V
C5	1-161-055-00	CERAMIC	0.022MF	10%	25V
C6	1-102-952-00	CERAMIC	16PF	5%	50V
C7	1-102-951-00	CERAMIC	15PF	5%	50V
C8	1-101-004-00	CERAMIC	0.01MF		50V
C9	1-101-006-00	CERAMIC	0.047MF		50V
C10	1-102-942-00	CERAMIC	5PF	0.5PF	50V
C11	1-101-005-00	CERAMIC	0.022MF		50V
C12	1-101-005-00	CERAMIC	0.022MF		50V
C13	1-101-005-00	CERAMIC	0.022MF		50V
C14	1-123-330-00	ELECT	22MF	20%	16V
C15	1-101-005-00	CERAMIC	0.022MF		50V
C16	1-101-005-00	CERAMIC	0.022MF		50V
C17	1-123-356-00	ELECT	10MF	20%	16V
C18	1-161-053-00	CERAMIC	0.015MF	10%	25V
C19	1-161-056-00	CERAMIC	0.027MF	10%	25V
C20	1-124-463-00	ELECT	0.1MF	20%	50V
C21	1-102-973-00	CERAMIC	100PF	10%	50V
C22	1-123-306-00	ELECT	47MF	20%	10V
C23	1-123-379-00	ELECT	0.47MF	20%	50V
C24	1-123-380-00	ELECT	1MF	20%	50V
C25	1-123-382-00	ELECT	3.3MF	20%	50V
C26	1-123-306-00	ELECT	47MF	20%	10V
C27	1-130-471-00	FILM	0.001MF	5%	50V
C28	1-123-380-00	ELECT	1MF	20%	50V
C29	1-161-055-00	CERAMIC	0.022MF	10%	25V
C30	1-123-379-00	ELECT	0.47MF	20%	50V
C31	1-161-055-00	CERAMIC	0.022MF	10%	25V
C32	1-123-379-00	ELECT	0.47MF	20%	50V
C34	1-102-110-00	CERAMIC	220PF	10%	50V
C35	1-123-379-00	ELECT	0.47MF	20%	50V
C36	1-102-942-00	CERAMIC	5PF	0.5PF	50V
C38	1-161-055-00	CERAMIC	0.022MF	10%	25V
C41	1-101-005-00	CERAMIC	0.022MF		50V
C101	1-102-115-00	CERAMIC	560PF	10%	50V
C102	1-102-110-00	CERAMIC	220PF	10%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C103	1-102-115-00	CERAMIC	560PF	10%	50V
C104	1-102-110-00	CERAMIC	220PF	10%	50V
C105	1-161-052-00	CERAMIC	0.012MF	10%	25V
C107	1-123-369-00	ELECT	4.7MF	20%	50V
C108	1-102-074-00	CERAMIC	0.001MF	10%	50V
C109	1-123-369-00	ELECT	4.7MF	20%	50V
C110	1-102-110-00	CERAMIC	220PF	10%	50V
C111	1-123-306-00	ELECT	47MF	20%	10V
C113	1-161-054-00	CERAMIC	0.018MF	10%	25V
C114	1-161-055-00	CERAMIC	0.022MF	10%	25V
C115	1-102-973-00	CERAMIC	100PF	5%	50V
C117	1-123-369-	ELECT	4.7MF	20%	50V
C120	1-102-074-00	CERAMIC	0.001MF	10%	50V
C121	1-123-306-00	ELECT	47MF	20%	10V
C122	1-123-307-00	ELECT	100MF	20%	10V
C123	1-123-299-00	ELECT	1000MF	20%	6.3V
C124	1-123-306-00	ELECT	47MF	20%	10V
C125	1-130-497-00	MYLAR	0.15MF	5%	50V
C127	1-102-973-00	CERAMIC	100PF	5%	50V
C130	1-161-020-11	CERAMIC	0.039MF	10%	25V
C201	1-102-115-00	CERAMIC	560PF	10%	50V
C202	1-102-110-00	CERAMIC	220PF	10%	50V
C203	1-102-115-00	CERAMIC	560PF	10%	50V
C204	1-102-110-00	CERAMIC	220PF	10%	50V
C205	1-161-052-00	CERAMIC	0.012MF	10%	25V
C207	1-123-369-00	ELECT	4.7MF	20%	50V
C208	1-102-074-00	CERAMIC	0.001MF	10%	50V
C209	1-123-369-00	ELECT	4.7MF	20%	50V
C210	1-102-110-00	CERAMIC	220PF	10%	50V
C211	1-123-306-00	ELECT	47MF	20%	10V
C213	1-161-054-00	CERAMIC	0.018MF	10%	25V
C214	1-161-055-00	CERAMIC	0.022MF	10%	25V
C215	1-102-973-00	CERAMIC	100PF	5%	50V
C217	1-123-369-00	ELECT	4.7MF	20%	50V
C220	1-102-074-00	CERAMIC	0.001MF	10%	50V
C221	1-123-306-00	ELECT	47MF	20%	10V
C222	1-123-307-00	ELECT	100MF	20%	10V
C223	1-123-299-00	ELECT	1000MF	20%	6.3V
C224	1-123-306-00	ELECT	47MF	20%	10V
C225	1-130-497-00	MYLAR	0.15MF	5%	50V
C227	1-102-973-00	CERAMIC	100PF	5%	50V
C230	1-161-020-11	CERAMIC	0.039MF	10%	25V
C301	1-123-379-00	ELECT	0.47MF	20%	50V
C302	1-123-379-00	ELECT	0.47MF	20%	50V
C303	1-124-464-11	ELECT	0.22MF	20%	50V

SEE ADDITIONAL INFORMATION

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C304	1-102-074-00	CERAMIC	0.001MF	10%	50V
C305	1-161-053-00	CERAMIC	0.015MF	10%	25V
C306	1-123-330-00	ELECT	22MF	20%	16V
C307	1-123-369-00	ELECT	4.7MF	20%	50V
C308	1-123-307-00	ELECT	100MF	20%	10V
C310	1-123-306-00	ELECT	47MF	20%	10V
C312	1-123-369-00	ELECT	4.7MF	20%	50V
C313	1-124-124-00	ELECT	220MF	20%	10V
C314	1-124-124-00	ELECT	220MF	20%	10V
C315	1-123-307-00	ELECT	100MF	20%	10V
C316	1-123-369-00	ELECT	4.7MF	20%	50V
C317	1-124-124-00	ELECT	220MF	20%	10V
C318	1-123-332-00	ELECT	47MF	20%	16V
C319	1-101-005-00	CERAMIC	0.022MF		50V
C320	1-101-005-00	CERAMIC	0.022MF		50V
C321	1-101-005-00	CERAMIC	0.022MF		50V
C322	1-124-124-00	ELECT	220MF	20%	10V
C323	1-130-479-00	MYLAR	0.0047MF	5%	50V
C324	1-102-074-00	CERAMIC	0.001MF	10%	50V
C325	1-130-467-00	MYLAR	470PF	5%	50V
C327	1-123-306-00	ELECT	47MF	20%	10V
C341	1-102-973-00	CERAMIC	100PF	5%	50V
C345	1-162-294-31	CERAMIC	0.001MF	10%	50V
C801	⚠ 1-101-005-00	CERAMIC	0.022MF		50V
C802	1-101-005-00	CERAMIC	0.022MF		50V
C803	1-101-005-00	CERAMIC	0.022MF		50V
C804	1-124-887-00	ELECT	3300MF	20%	16V
CF1	1-527-808-00	FILTER, CERAMIC			
CF2	1-527-808-00	FILTER, CERAMIC			
CF3	1-527-954-00	FILTER, CERAMIC			
CNJ6	*1-562-682-11	CONNECTOR, SMALL MICRO 6P			
CNJ11	*1-562-682-11	CONNECTOR, SMALL MICRO 6P			
CNJ801	⚠ 1-526-818-11	INLET, AC			
CNP1	*1-560-892-00	PIN, CONNECTOR 4P			
CNP2	*1-560-891-00	PIN, CONNECTOR 3P			
CNP3	*1-560-894-00	PIN, CONNECTOR 6P			
CNP4	*1-560-892-00	PIN, CONNECTOR 4P			
CNP5	*1-560-893-00	PIN, CONNECTOR 5P			
CNP6	*1-562-126-00	SOCKET, CONNECTOR 4P			
CNP7	*1-563-307-11	CONNECTOR (SOCKET) 2P			
CNP11	*1-560-894-00	PIN, CONNECTOR 6P			
CNP801	*1-560-530-00	PIN, CONNECTOR 2P			
CP1	1-235-911-21	FILTER, BAND PASS			
CT1-4, CV1-4	1-151-372-21	CAP, TUNING, POLYETHYLENE			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D1	8-719-901-33	DIODE 1SS133
D3	8-719-768-75	DIODE 1S2687CS
D4	8-719-901-33	DIODE 1SS133
D303	8-719-100-41	DIODE RD6.8EB2
D308	1-807-738-11	SLR-34VR70F130 (LED)
D317	8-719-901-33	DIODE 1SS133
D801	⚠ 8-719-200-23	DIODE 11E2
D802	⚠ 8-719-200-23	DIODE 11E2
D803	⚠ 8-719-200-23	DIODE 11E2
D804	⚠ 8-719-200-23	DIODE 11E2
HE901	8-658-096-02	HEAD, ERASE EBF5-36
HP901	1-543-283-11	(DECK A)...HEAD, MAGNETIC (PB)
HRP901	1-543-283-11	(DECK B)...HEAD, MAGNETIC (REC/PB)
IC1	8-759-204-03	IC TA7358AP
IC2	8-759-801-24	IC LA1260S
IC3	8-759-203-87	IC TA7343AP
IC301	8-759-803-27	IC CXA1115P
IC302	8-759-803-28	IC CXA1116S
IC303	8-759-205-82	IC TA7282AP
J301	1-507-643-00	JACK
J302	1-507-948-11	JACK
L1	1-422-317-00	COIL, VHF
L2	1-422-316-31	COIL, VHF
L3	1-402-158-11	ANTENNA, FERRITE-ROD (MW)
L4	1-406-040-00	COIL (OSC)
L101	1-407-961-00	MICRO INDUCTOR 2.7MMH
L201	1-407-961-00	MICRO INDUCTOR 2.7MMH
M901	1-541-330-11	(DECK A)...MOTOR (CW)
M902	1-541-317-11	(DECK B)...MOTOR
MIC	8-814-186-00	MICROPHONE UNIT (C-1014)
Q1	8-729-194-57	TRANSISTOR 2SC945-P
Q101	8-729-900-80	TRANSISTOR DTC114ES
Q201	8-729-900-80	TRANSISTOR DTC114ES
Q301	8-729-194-57	TRANSISTOR 2SC945-P
Q302	8-729-900-80	TRANSISTOR DTC114ES
Q303	8-729-194-57	TRANSISTOR 2SC945-P
Q305	8-729-900-80	TRANSISTOR DTC114ES
Q306	8-729-100-12	TRANSISTOR 2SC2001-L
Q307	8-729-194-57	TRANSISTOR 2SC945-P
Q310	8-729-173-37	TRANSISTOR 2SA733-P
Q311	8-729-194-57	TRANSISTOR 2SC945-P
Q312	8-729-194-57	TRANSISTOR 2SC945-P

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q313	8-729-173-37	TRANSISTOR 2SA733-P			
Q314	8-729-194-57	TRANSISTOR 2SC945-P			
Q315	8-729-194-57	TRANSISTOR 2SC945-P			
Q320	8-729-173-37	TRANSISTOR 2SA733-P			
R1	1-249-409-11	METAL	220	5%	1/6W
R2	1-249-397-11	METAL	22	5%	1/6W
R3	1-249-409-11	METAL	220	5%	1/6W
R4	1-247-849-00	METAL	5.6K	5%	1/6W
R5	1-249-433-11	METAL	22K	5%	1/6W
R6	1-249-433-11	METAL	22K	5%	1/6W
R7	1-249-435-11	METAL	33K	5%	1/6W
R8	1-249-421-11	METAL	2.2K	5%	1/6W
R9	1-249-441-11	METAL	100K	5%	1/6W
R10	1-215-418-00	METAL	750	5%	1/6W
R11	1-249-402-11	METAL	56	5%	1/6W
R12	1-249-417-11	METAL	1K	5%	1/6W
R13	1-249-429-11	METAL	10K	5%	1/6W
R14	1-249-422-11	METAL	2.7K	5%	1/6W
R15	1-215-477-00	METAL	220K	5%	1/6W
R16	1-249-423-11	METAL	3.3K	5%	1/6W
R17	1-249-423-11	METAL	3.3K	5%	1/6W
R18	1-249-435-11	METAL	33K	5%	1/6W
R20	1-215-448-00	METAL	13K	5%	1/6W
R21	1-215-448-00	METAL	13K	5%	1/6W
R26	1-249-421-11	METAL	2.2K	5%	1/6W
R27	1-249-441-11	METAL	100K	5%	1/6W
R28	1-249-441-11	METAL	100K	5%	1/6W
R29	1-249-411-11	METAL	330	5%	1/6W
R103	1-249-429-11	METAL	10K	5%	1/6W
R104	1-249-405-11	METAL	100	5%	1/6W
R105	1-249-429-11	METAL	10K	5%	1/6W
R106	1-249-429-11	METAL	10K	5%	1/6W
R107	1-249-421-11	METAL	2.2K	5%	1/6W
R109	1-249-429-11	METAL	10K	5%	1/6W
R110	1-249-421-11	METAL	2.2K	5%	1/6W
R112	1-249-408-11	METAL	180	5%	1/6W
R113	1-215-464-00	METAL	62K	5%	1/6W
R114	1-249-429-11	METAL	10K	5%	1/6W
R115	1-249-413-11	METAL	470	5%	1/6W
R117	1-249-421-11	METAL	2.2K	5%	1/6W
R118	1-249-402-11	METAL	56	5%	1/6W
R119	1-247-403-11	METAL	68	5%	1/6W
R122	1-249-429-11	METAL	10K	5%	1/6W
R125	1-247-849-00	METAL	5.6K	5%	1/6W
R203	1-249-429-11	METAL	10K	5%	1/6W
R204	1-249-405-11	METAL	100	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R205	1-249-429-11	METAL	10K	5%	1/6W
R206	1-249-429-11	METAL	10K	5%	1/6W
R207	1-249-421-11	METAL	2.2K	5%	1/6W
R209	1-249-429-11	METAL	10K	5%	1/6W
R210	1-249-421-11	METAL	2.2K	5%	1/6W
R212	1-249-408-11	METAL	180	5%	1/6W
R213	1-215-464-00	METAL	62K	5%	1/6W
R214	1-249-429-11	METAL	10K	5%	1/6W
R215	1-249-413-11	METAL	470	5%	1/6W
R217	1-249-421-11	METAL	2.2K	5%	1/6W
R218	1-249-402-11	METAL	56	5%	1/6W
R219	1-249-403-11	METAL	68	5%	1/6W
R222	1-249-429-11	METAL	10K	5%	1/6W
R225	1-247-849-00	METAL	5.6K	5%	1/6W
R301	1-249-412-11	METAL	390	5%	1/6W
R302	1-249-413-11	METAL	470	5%	1/6W
R303	1-249-413-11	METAL	470	5%	1/6W
R304	1-249-410-11	METAL	270	5%	1/6W
R305	1-249-441-11	METAL	100K	5%	1/6W
R306	1-249-417-11	METAL	1K	5%	1/6W
R307	1-249-441-11	METAL	100K	5%	1/6W
R308	1-249-409-11	METAL	220	5%	1/6W
R309	1-247-849-00	METAL	5.6K	5%	1/6W
R310	1-249-429-11	METAL	10K	5%	1/6W
R311	1-249-429-11	METAL	10K	5%	1/6W
R314	1-249-441-11	METAL	100K	5%	1/6W
R315	1-249-429-11	METAL	10K	5%	1/6W
R316	1-249-402-11	METAL	56	5%	1/6W
R320	1-249-421-11	METAL	2.2K	5%	1/6W
R321	1-249-429-11	METAL	10K	5%	1/6W
R322	1-247-849-00	METAL	5.6K	5%	1/6W
R324	1-249-429-11	METAL	10K	5%	1/6W
R325 ⚠	1-217-383-00	FUSIBLE	4.7	5%	1/4W F
R326	1-249-405-11	METAL	100	5%	1/6W
R327	1-249-411-11	METAL	330	5%	1/6W
R328	1-249-429-11	METAL	10K	5%	1/6W
R329	1-249-393-11	METAL	10	5%	1/6W
R330	1-249-412-11	METAL	390	5%	1/6W
R337	1-249-410-11	METAL	270	5%	1/6W
R338	1-249-415-11	METAL	680	5%	1/6W
R343	1-247-849-00	METAL	5.6K	5%	1/6W
R344	1-249-429-11	METAL	10K	5%	1/6W
R345	1-249-441-11	METAL	100K	5%	1/6W
R346	1-249-429-11	METAL	10K	5%	1/6W
R347	1-249-429-11	METAL	10K	5%	1/6W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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Ne les remplacer que par une pièce portant le numéro spécifié.

SEE ADDITIONAL INFORMATION

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R348	1-249-429-11	METAL	10K	5%	1/6W
R349	1-249-429-11	METAL	10K	5%	1/6W
R350	1-249-429-11	METAL	10K	5%	1/6W
R351	1-249-429-11	METAL	10K	5%	1/6W
R352	1-249-429-11	METAL	10K	5%	1/6W
R353	1-249-429-11	METAL	10K	5%	1/6W
R354	1-249-429-11	METAL	10K	5%	1/6W
R355	1-249-429-11	METAL	10K	5%	1/6W
R356	1-249-429-11	METAL	10K	5%	1/6W
R357	1-247-849-00	METAL	5.6K	5%	1/6W
R363	1-249-437-11	METAL	47K	5%	1/6W
R364	1-249-421-11	METAL	2.2K	5%	1/6W
R366	1-249-441-11	METAL	100K	5%	1/6W
R371	1-249-402-11	METAL	56	5%	1/6W
R375	1-249-429-11	METAL	10K	5%	1/6W
RV1	1-228-993-00	RES, ADJ, CARBON 4.7K			
RV101	1-230-093-00	RES, VAR, CARBON 20K/20K			
RV102	1-237-570-11	RES, VAR			
RV301	1-228-991-00	RES, ADJ, CARBON 2.2K			
RV302	1-228-990-00	RES, ADJ, CARBON 1K			
RV303	1-228-990-00	RES, ADJ, CARBON 1K			
RV304	1-228-991-00	RES, ADJ, CARBON 2.2K			
S1	1-570-347-11	SWITCH, LEVER SLIDE			
S301	1-570-942-11	SWITCH, SLIDE			
S302	1-570-944-11	SWITCH, LEVER SLIDE			
S303	1-570-068-11	SWITCH, PUSH (1 KEY)			
S501	1-554-495-00	SWITCH, LEAF			
S502	1-570-012-11	SWITCH, LEAF			
S601	1-554-495-00	SWITCH, LEAF			
S602	1-570-012-11	SWITCH, LEAF			
SP901	1-503-750-11	SPEAKER (LEFT)			
SP902	1-503-750-11	SPEAKER (RIGHT)			
T1	1-403-872-00	I.F.T CONVERTER FM (SMALL TYPE)			
T2	1-404-249-00	COIL, FM DETECTOR			
T3	1-404-158-00	COIL, IFT			
T301	1-433-222-00	TRANSFORMER, BIAS OSCILLATOR			
T801	⚠1-448-781-11	TRANSFORMER, POWER			

ACCESSORY & PACKING MATERIAL

Part No.	Description
⚠1-559-237-11	CORD, POWER
3-339-387-01	CUSHION (UPPER)
3-339-388-01	CUSHION (LOWER)
3-337-865-02	SHEET, PROTECTION
3-339-353-01	(US).....INDIVIDUAL CARTON
3-341-107-01	(Canadian)...INDIVIDUAL CARTON
3-341-137-01	CUSHION (FRONT)
3-701-626-00	BAG, POLYETHYLENE
3-703-390-01	(US)....INSTRUCTION
3-765-963-21	MANUAL, INSTRUCTION
3-795-748-21	(US)....SAFETY INSTRUCTIONS, HEADPHONE

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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

Sony Corporation
Audio Group

9-952-673-11

English
87G0240-1
Printed in Japan

SERVICE MANUAL

US Model
Canadian Model

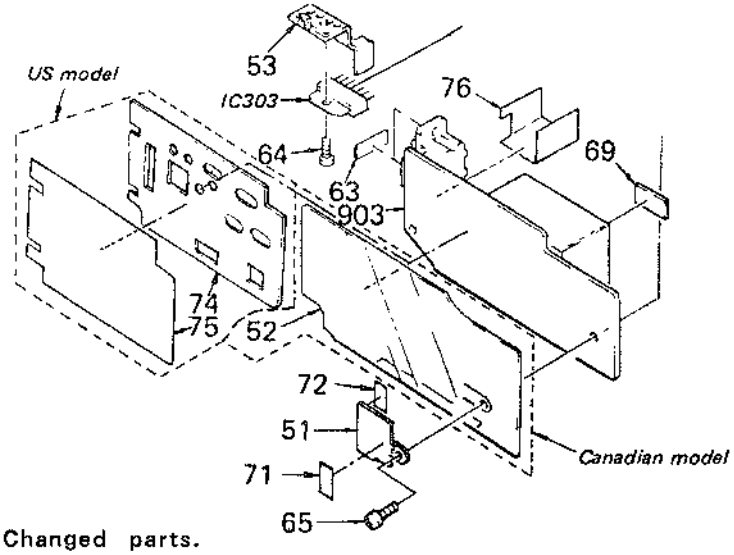
No.1

SUPPLEMENT

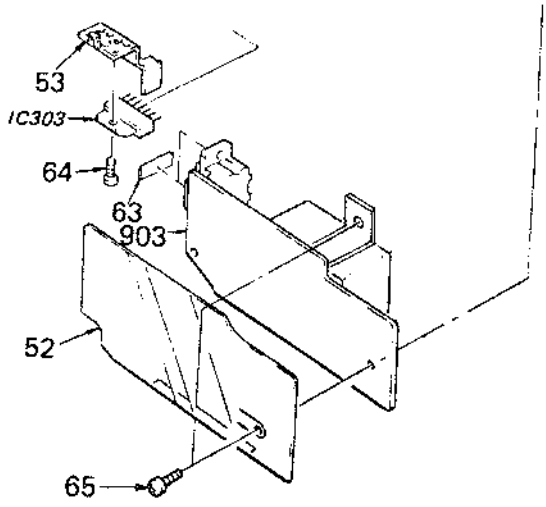
File this supplement with the service manual.

Subject : Power Block change

FORMER TYPE



NEW TYPE



Changed parts.

Page.22

	FORMER TYPE		NEW TYPE		Remark
No.	Part No.	Description	Part No.	Description	
51	3-340-354-01	CLAMP,POWER PC BOARD	———	———	DELETE
66	7-621-770-87	SCREW +B 2.6×5	7-621-775-25	SCREW +B 2.6×5	CHANGE
69	4-836-922-01	RETAINER,PHONO CORD	———	———	DELETE
71	4-883-473-00	SPACER,CASSETTE LID	———	———	DELETE
72	9-911-840-XX	(Canadian) ••• CUSHION (A)	———	———	DELETE
74	3-341-140-01	(US) ••• INSULATOR, POWER PC BOARD	———	———	DELETE
75	3-341-139-01	(US) ••• SHEET,PROTECTION, POWER PC BOARD	———	———	DELETE
76	3-341-138-01	(US) ••• CLAMP,AC INLET	———	———	DELETE

FM/AM
STEREO CASSETTE-CORDER

SONY

TC

Page.21

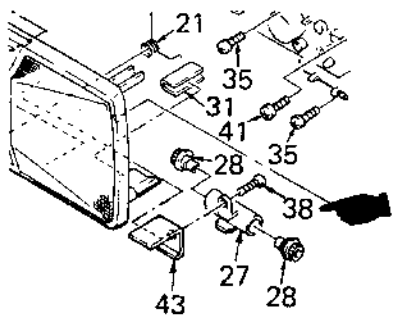
	FORMER TYPE		NEW TYPE		Remark
No.	Part No.	Description	Part No.	Description	
44	3-341-114-01	SPRING,TENSION	————	————	DELETE

Page.28

	FORMER TYPE		NEW TYPE		Remark
Ref.No.	Part No.	Description	Part No.	Description	
T801	1-448-781-11	TRANSFORMER,POWER	1-448-902-12	TRANSFORMER,POWER	CHANGE

Following parts have been changed in both former type and new type.

Changed parts.
Page.21



No.	Part No.	Description	Remark
38	7-685-649-79	SCREW +BVTP 3×14 TYPE2, IT-3	CHANGE
39	7-685-133-19	SCREW +BTP 2.6×6 TYPE2, N-S	CHANGE

Page.22

No.	Part No.	Description	Remark
65	7-685-648-79	SCREW +BVTP 3×12 TYPE2, N-S	CHANGE
73	————	————	DELETE

Page.26

Ref.No.	Part No.	Description	Remark
L2	1-422-347-11	COIL,AIR-CORE	CHANGE

Page.28

Part No.	Description	Remark
3-765-963-31	(Canadian) ••• MANUAL,INSTRUCTION	ADDITION

English
87H0240-1
Printed in Japan

SONY
SERVICE MANUAL

US Model
Canadian Model

SUPPLEMENT-2

File this supplement with the service manual.

Subject : Antenna board change

● Antenna board has been changed to Antenna terminal board.

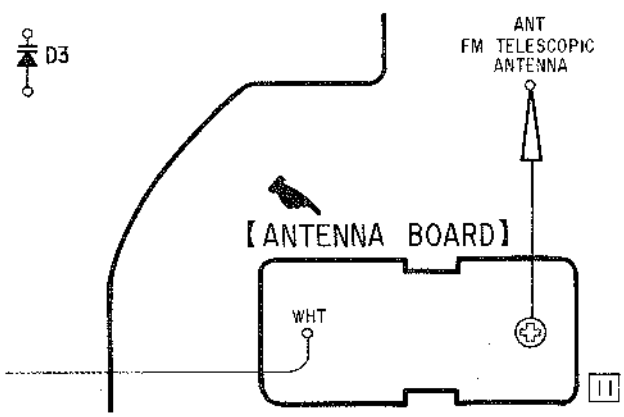
Page 22 , 25

No.	FORMER TYPE		NEW TYPE	
	Part No.	Description	Part No.	Description
905	*1-622-092-11	PC BOARD,ANTENNA	*3-341-184-01	TERMINAL BOARD,ANTENNA

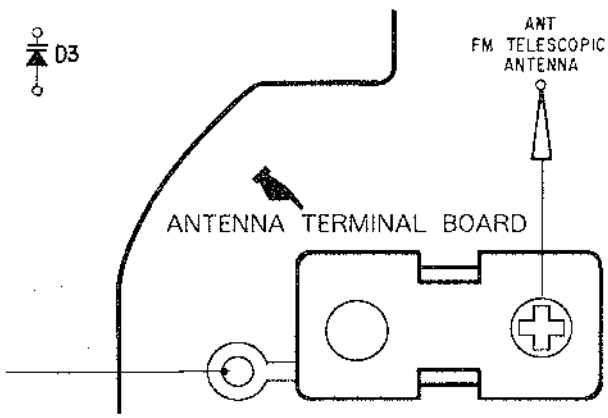
: changed portion

MOUNTING DIAGRAM —TUNER SECTION—
Page.19

FORMER TYPE

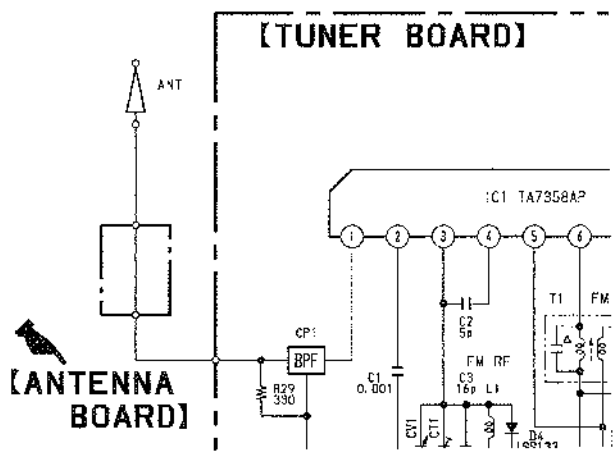


NEW TYPE

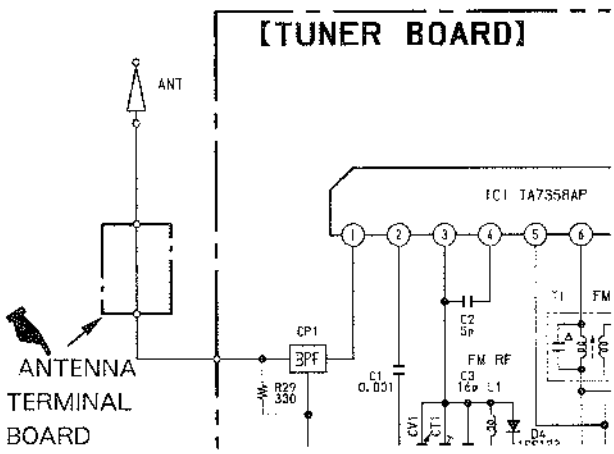


SCHEMATIC DIAGRAM —TUNER SECTION—
Page.19

FORMER TYPE



NEW TYPE



Sony Corporation
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87K0240-1
Printed in Japan

9-952-673-82

TC

SONY

SERVICE MANUAL

US Model
Canadian Model

SUPPLEMENT-3

File this Supplement with the Service Manual.

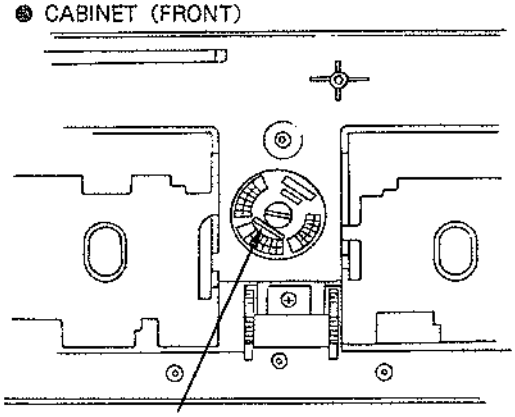
Subject : Change of cabinet (front),cabinet (rear), cassette holder,and telescopic antenna in US model

The parts shown in table 1 have been changed on the production.
There is no interchangeability between former parts and new parts, so take care to change the parts.

1. Distinction between former parts and new parts

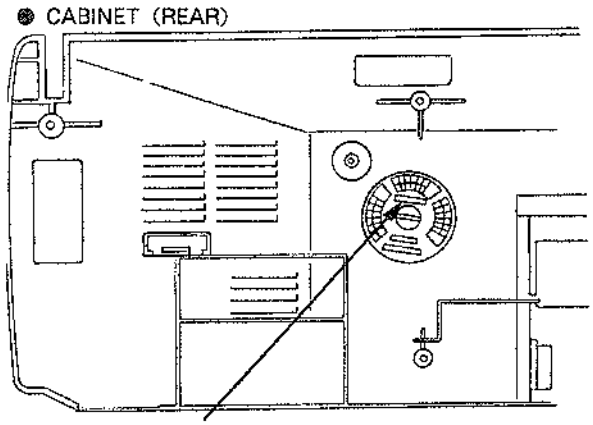
   New parts are distinguished from former parts by parts number of MOLDER mark carved on the inside of cabinet (front) and cabinet (rear).

● CABINET (FRONT)



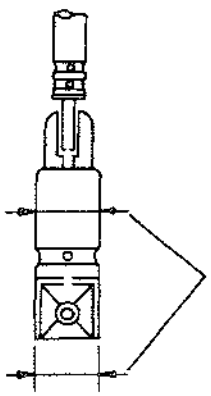
Part number of MOLDER mark
Former Type : 3-340-377
New Type : 3-340-352

● CABINET (REAR)



Part number of MOLDER mark
Former Type : 3-340-378
New Type : 3-339-301

2. Distinction of telescopic antenna



Former Type : 9mm dia
New Type : 8mm dia

Page	No.	Former Type		New Type	
		Part No.	Description	Part No.	Description
21	1	A-3247-276-A	HOLDER (RIGHT) ASSY,CASSETTE	A-3247-250-A	HOLDER (RIGHT) ASSY,CASSETTE
21	2	A-3247-275-A	HOLDER (LEFT) ASSY,CASSETTE	A-3247-248-A	HOLDER (LEFT) ASSY,CASSETTE
21	3	A-3241-622-A	CABINET (FRONT) SUB ASSY	A-3241-924-A	CABINET (FRONT) SUB ASSY
22	58	3-340-378-01	(US) ···CABINET (REAR)	3-339-301-01	(US) ···CABINET (REAR)
22,25	ANT	1-501-378-11	ANTENNA,TELESCOPIC	1-501-337-11	ANTENNA,TELESCOPIC

Table 1

Correct the Part No. as shown below.

☛ : corrected portion

Page	No.	INCORRECT	CORRECT	
		Part No.	Part No.	Description
22,25	906	*A-3266-396-A ☛	*A-3266-397-A ☛	PC BOARD ASSY,TUNER

9-952-673-83

Sony Corporation
Audio Group

English
8810231-1
Printed in Japan

Published by A/V Engineering Service Dept.

SONY

SERVICE MANUAL

US Model
Canadian Model
E Model

SUPPLEMENT-4

File this Supplement with the Service Manual.

Subject : E model is added in CFS-W301.

E model is the almost same as CFS-W301 (US model : new type). Refer to CFS-W301 (US model : new type) Service Manual previously issued for the information of E model.

9-952-673-84

Sony Corporation
Audio Group

English
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CFS-W301

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SERVICE MANUAL

US Model
Canadian Model

CORRECTION-1

Correct your service manual as shown below.

☛ : **indicates corrected portion.**

Page	INCORRECT			CORRECT		
22	No.	Part No.	Description	No.	Part No.	Description
•						
25	906	*A-3266-396-A	PC BOARD ASSY, TUNER	906	*A-3266-397-A ☛	MOUNTED PCB ☛, TUNER

9-952-673-91

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General Audio Group

English
91C0234-1
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CFS-W301

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SERVICE MANUAL

US Model
Canadian Model

CORRECTION- 2

Correct your service manual as shown below.

☛ : **indicates corrected portion.**

Page	INCORRECT			CORRECT	
	No.	Part No.	Description	Part No.	Description
22	76	3-341-138-01	(US) • • • CLAMP, AC INLET	———	not supplied ———

9-952-673-92

Sony Corporation
General Audio Group

English
92E0233-1
Printed in Japan

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