CFD-100/W100

SERVICE MANUAL



US Model Canadian Model

Australian Model

Model Name Using	CD Section	CFD-775
Similar Mechanism	Tape Section	CFS-W305
Optical Device Name		KSM-2101BAN
Tape Transport Mechanism Type		MF-100-64, M

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 3.2-ohm loads, both channels drive from 150-10,000 Hz: rated 2.0 W per channel minimum RMS power, with no more than 10% total harmonic distortion in AC operation.

OTHER SPECIFICATIONS

CD player section

System

Laser diode properties

Compact disc digital audio system

Material: GaAlAs Wavelength 780 nm

Emission duration: Continuous

Laser output: Less than 44.6µW* This output is the value measured at a distance

of about 200 mm from the objective lens surface on the optical pick-up block.

Frequency response Wow and flutter

20 - 20,000 Hz +2 dB Below measurable limit

Radio section

Frequency range

FM: 87.6 - 108 MHz AM: 530 - 1,710 kHz

Antennas

Speaker

Power output

FM: Telescopic antenna AM: Built-in ferrite bar antenna

Tape recorder section and general

Recording system Frequency response

4-track 2-channel stereo 70 - 10,000 Hz (with TYPE I < normal > cassette) Full-range speakers: 10 cm dia., cone type 2.3 W + 2.3 W (at 3.2 ohms, 10% harmonic

distortion)

Input

Output

Mixing microphone input jack (minijack)

Sensitivity 2.5 mV

For low impedance microphone

Headphone jack (stereo minijack)

For 16 – 68 ohms impedance headphones Australian model: 240 V AC, 50 Hz

Models for other countries: 120 V AC, 60 Hz

DC 9 V, 6 size D (R20) batteries

AC 25 W

Battery life

Power requirements

Power consumption

(hours)

	FM recording	Playback	CD playing
Sony SUM-1 (NS)	approx. 7.5	approx. 5.5	approx. 2.5
Sony Alkaline AM1 (N)	approx. 17	approx. 11	approx. 4.5

Dimensions

 $640 \times 205 \times 224$ mm (w/h/d) $(25^{1}/_{4} \times 8^{1}/_{8} \times 8^{7}/_{8} \text{ inches})$ incl. projecting parts and controls

Weight Supplied accessory Approx. 5.4 kg incl. batteries (Approx. 11 lb 14 oz).

AC power cord (1)

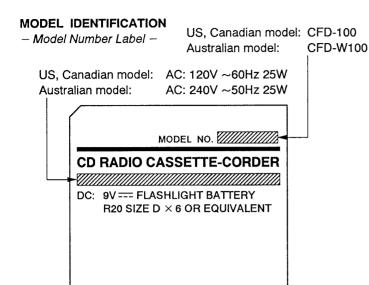
Design and specifications subject to change without notice.

Sony Corporation 9-956-602-12 2002E0500-1 **Personal Audio Company**

© 2002.05

Published by Sony Engineering Corporation

CD RADIO CASSETTE-CORDER SONY



US, Canadian model: Carved on rear cabinet Australian model: 3-371-895-01

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A 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 A 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.

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SECTION 1 SERVICING NOTES

SAFETY CHECK-OUT

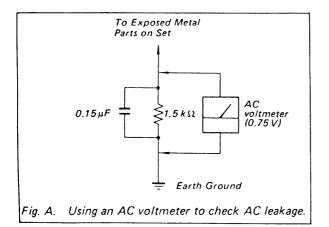
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

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 and push S801.

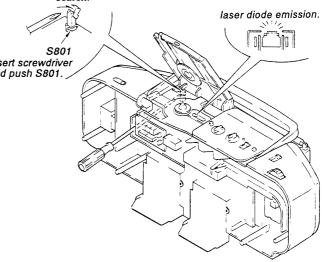
- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of 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 2 V AC range are suitable. (See Fig. A)



LASER DIODE AND FOCUS SEARCH OPERATION CHECK

- Make Function switch to CD position with no disc inserted.
- 2. Open the lid for CD.
- 3. Turn on S801 as following figure.
- 4. Press ▶ key.
- Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.

Objective lens moves up and down once for the focus search.



NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic brakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

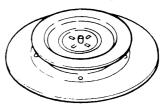
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 25 cm away from the objective lens.

CHUCK PLATE JIG ON REPAIRING

On repairing CD section, playing a disc without the CD lid, use Chuck Plate Jig.

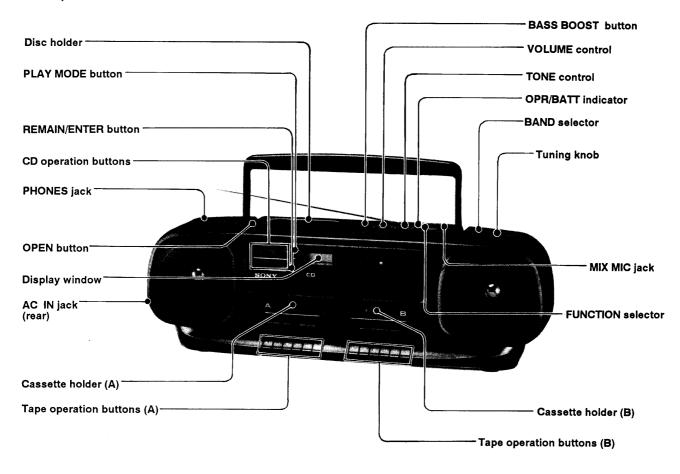
• Code number of Chuck Plate Jig: X-4918-255-1



SECTION 2 GENERAL

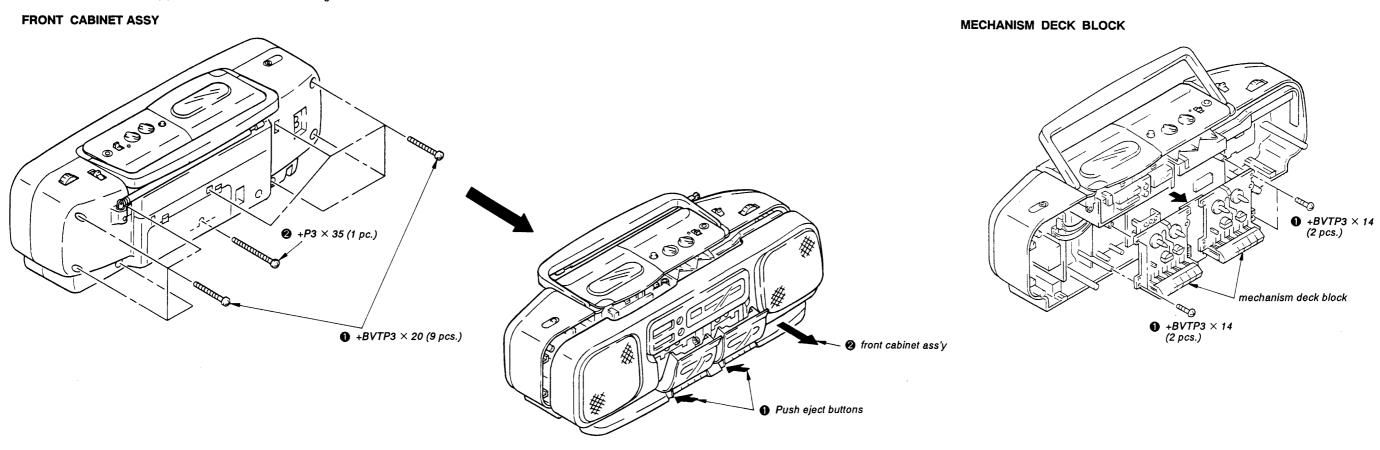
• Parts Identification

CD Player Section

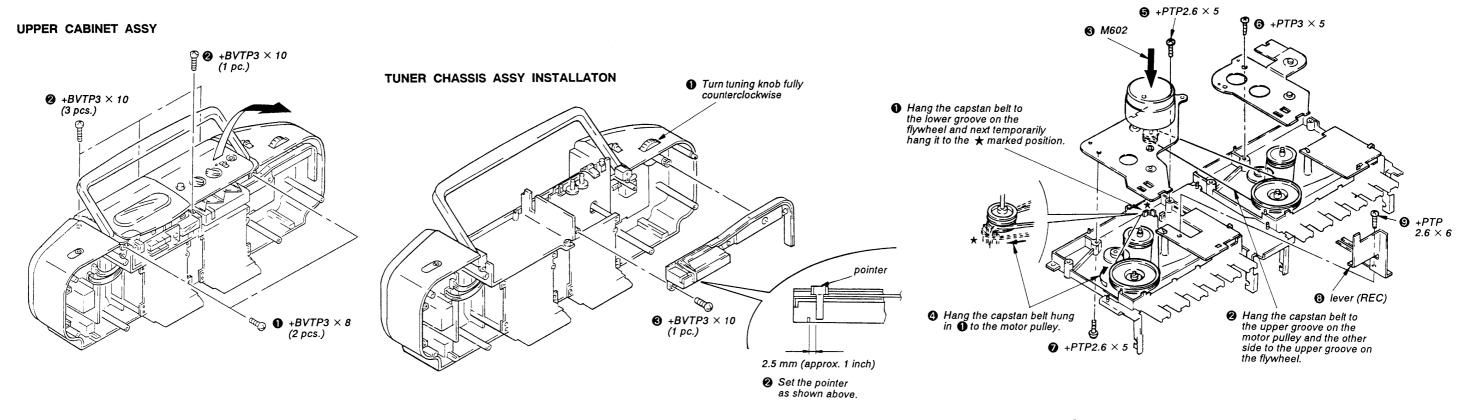


SECTION 3 DISASSEMBLY

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



DECK A CAPSTAN BELT REPLACEMENT



SECTION 4 MECHANICAL ADJUSTMENTS

PRECAUTION

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

record/playback head erase head

pinch roller rubber belts

capstan

idlers

- 2. Demagnetize the record/playback head with a head demagentizer. (Do not bring the head demagnetizer close to the erase head.)
- 3. Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- 6. Power supply voltge: 9V dc.

Torque Measurement DECK A DECK B

Torque	Meter Reading	Torque Meter
Forward	22 - 55 g•cm (0.30 - 0.76 oz•inch)	CQ-102C
Fast Forward and Rewind	45 g•cm or more (0.62 oz•inch)	CQ-201B
Back Tension	2 - 5g•cm (0.03 - 0.07 oz•inch)	CQ-102C

Tape Tension Measurement

	Meter	Meter Reading
Г	CQ-403A	more than 100 g*cm (1.38 oz*inch)

SECTION 5 ELECTRICAL ADJUSTMENTS

PRECAUTION

- Adjustments should be performed in the order given.
 Generally playback circuit adjustments should be completed before performing recording circuit adjustments.
- Adjustments should be performed for both L-ch and R-ch. Switches and controls should be set as follows unless otherwise specified.

• Positions of switches and control knobs

TONE maximum BASS BOOST OFF

Standard recording position

Adjust the VOLUME knob so that the following regulated input/output signal levels are obtained.

• Standard input level

Input Pin	MIX MIC
Signal source impedance	300 Ω
Input signal level	2.5 mV (- 50 dB)
Frequency	1 kHz

Standard output level

Output Pin	Speaker (L, R)	PHONES
Signal source impedance	3.2 Ω	32 Ω
Output signal level	0.775 V (0 dB)	0.245 V (- 10 dB)

0 dB=0.775 V

5-1. TAPE RECORDER SECTION

Test Tape

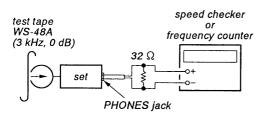
Туре	Signal	Used for
WS-48A	3 kHz, 0 dB	tape speed adjustment

Tape Speed Adjustment DECK A DECK B

Adjust deck A first, and check deck B.

Procedure:

Mode: FWD playback



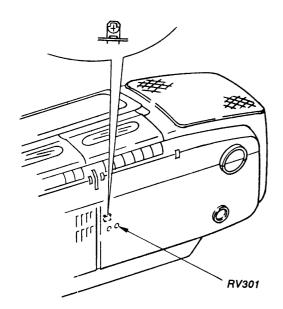
Playback the test tape WS-48A and adjust to meet the specifications below.

Adjustment Value:

Speed	Adjust- ment part	speed checker reading	frequency counter reading
high	confirm	- 8.3 to - 1.7%	5,700 ± 200 Hz
normal	RV301	- 1.0 to 0%	2,985 ± 15 Hz

Frequency difference between the tape top and end should be within 0.5%

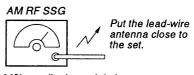
Adjustment Location: AUDIO board



5-2. TUNER SECTION

[AM]

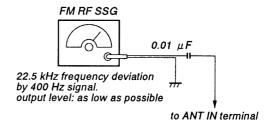
FUNCTION switch: RADIO BAND switch: AM

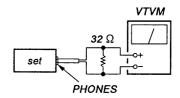


30% amplitude modulation by 400 Hz signal output level: as low as possible

[FM]

FUNCTION switch: RADIO BAND switch: FΜ





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 ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T1 455 kHz	

AM FREQUENCY COVE	RAGE ADJUSTMENT	
Adjsut for a maximum reading on VTVM.		
L4	520 kHz	
CT1-4	1,780 kHz	

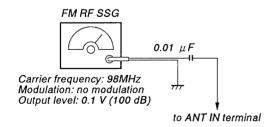
AM TRACKING ADJUSTMENT		
Adjust for a maximum reading on VTVM.		
	CFD-100	CFD-W100
L3	600 kHz	600 kHz
CT1-3	1,500 kHz	1,400 kHz

FM FREQUENCY COVE	RAGE ADJUSTMENT							
Adjsut for a maximum reading on VTVM.								
L2	86.5 MHz							
CT1-2	109.5 MHz							

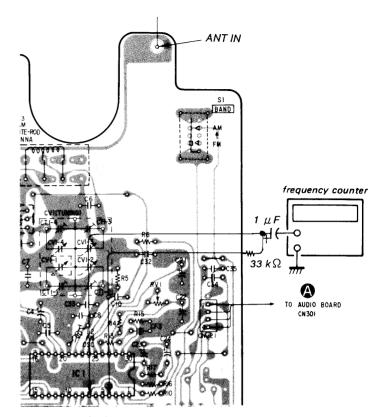
FM TRACKING ADJUSTMENT							
Adjsut for a maximum reading on VTVM.							
LI	86.5 MHz						
CT1-1	109.5MHz						

FM VCO Adjustment

A) Regular Method Procedure:



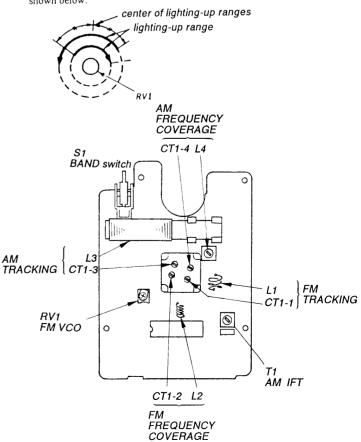
- Connect frequency counter to the positions shown below.
- Tune the set to 98 MHz.
- Adjust RV1 for 76 kHz \pm 500 Hz reading on the frequency counter.



B) Simple Method

Procedure:

- Tune the set to the FM stereo broadcasting signal.
- Turn RV1 clockwise or counterclockwise and memorize the lightingup range of the FM STEREO lamp.
- Secure RV1 at the center of the lighting-up range of both turns as shown below.



5-3. CD SECTION

Notes on Adjustment

- Perform adjustment in service mode.
 After adjustment, be sure to release service mode.
- 2. Perform adjustments in the order given.
- Use the disc (YEDS-18, Part No. 3-702-101-01) only when so indicated.

Before Adjustment

Put the set into service mode and perform the following checks. Repair if there are any problems.

Sled Motor Check

- 1. Press ▶ key, then press **!!** key.
- Press >> | , | < | keys and confirm that the FOP moves smoothly from the innermost to outermost circumference and back smoothly and with no catching or abnormal noises.
 - : FOP moves to the outer circumference

Focus Search Check

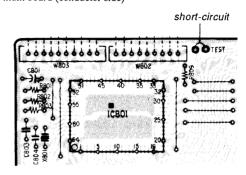
- 1. Press ▶ key. (Focus search operation is performed continuously.)
- 2. Look at the FOP objective lens and confirm that it moves up and down smoothly, with no catching or abnormal noises.
- 3. Press key.

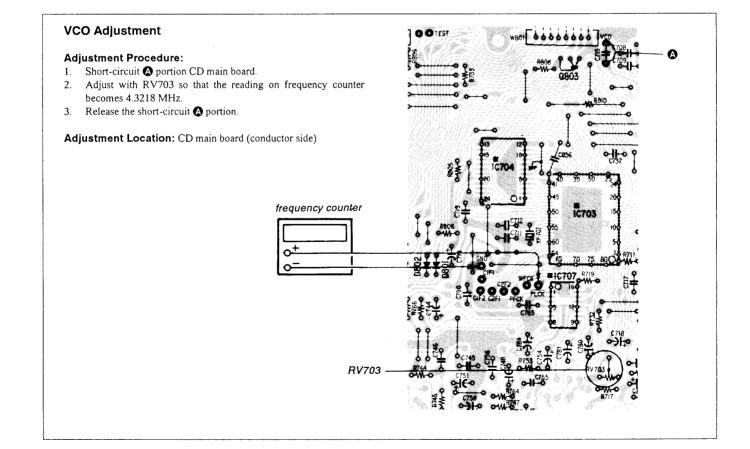
Confirm that focus search operation stops. If it does not, press \blacksquare key again longer.

How to Put the Set into Service Mode

- 1. Short-circuit following portions on the CD main board.
- 2. Tune POWER on. (Set the FUNCTION switch to CD position.)

CD main board (conductor side)



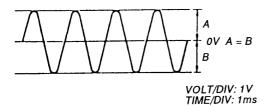


E-F Balance Adjustment

This adjustment is to be done when the optical block is replaced.

Adjustment Procedure:

- 1. Connect the oscilloscope between IC701 pins ① and ② .
- 2. Put the set into service mode. (See page 10)
- 3. Press the ▶▶ and ◄ keys to move the FOP to the center.
- 4. Insert disc (YEDS-18) and press ▶ key.
- Adjust RV701 so that the oscilloscope traverse waveform is symmetrical, as shown in the figure below.
- 6. Release service mode after adjustment is completed.

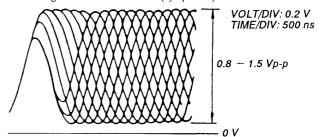


Focus Bias Adjustment

This adjustment is to be done when the optical block is replaced.

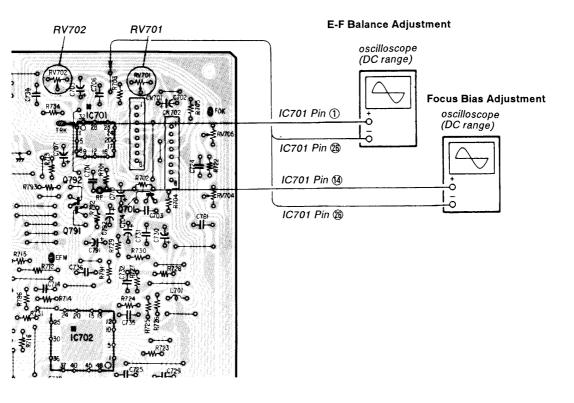
Adjustment Procedure:

- 1. Connect the oscilloscope between IC701 pins (4) and (26).
- 2. Put the set into service mode. (See page 10)
- 3. Press the ▶ and ▶ keys to move the FOP to the center. (Move the FOP to the music area on the disc to enable easy visibility of the eye pattern.)
- 4. Insert disc (YEDS-18) and press ▶ key.
- 5. Adjust RV702 so that the oscilloscope waveform is as shown in the figure below(eye pattern).
 - A good eye pattern means that the diamond shape (\diamondsuit) in the center of the waveform can be clearly distinguished.
- 6. Release service mode after adjustment is completed.
- RF signal reference waveform (eye pattern)



When observing the eye patern, set the oscilloscope for AC range and raise vertical sensitivity.

Adjustment Location: CD main board (conductor side)



REFERENCE

Focus/Tracking Gain Adjustment

A frequency response analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.

However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

Gain Symptoms	Focus	Tracking
The time until music starts becomes longer for STOP	low	low or high
 Music does not start and disc continues to rotate for STOP → PLAY or automatic selection (► ,) buttons pressed). 	_	low
Sound is interrupted during PLAY. Or time counter display stops progressing.	_	low
More poise during 2-axis device operation.	high	high

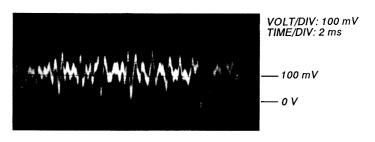
The following is a simple adjustment method.

- Simple Adjustment -

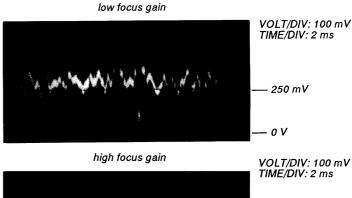
Note: Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

Procedure:

- 1. Keep the set horizontal.
 - (If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.
- 2. Insert disc (YEDS-18) and press ▶ PLAY button.
- 3. Connect the oscilloscope between IC701 pins 32 and 36.
- 4. Adjustment RV705 so that the waveform is as shown in the figure below. (focus gain adjustment)



Incorrent Examples (DC level changes more than on adjusted waveform)



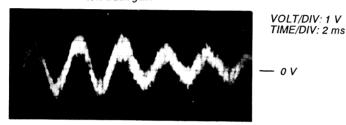
— 100 mV —75 mV — 0 V

- Connect the oscilloscope between IC701 pins ① and ② 5.
- Adjust RV704 so that the waveform is as shown in the figure below. (tracking gain adjustment)

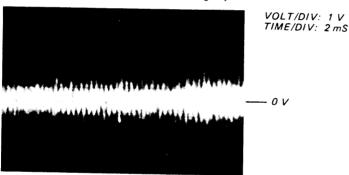


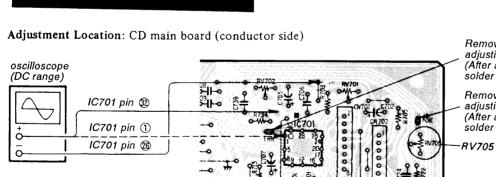
Incorrect Examples (fundamental wave appears)

low track gain



high track gain (higher fundamental wave than for low gain)





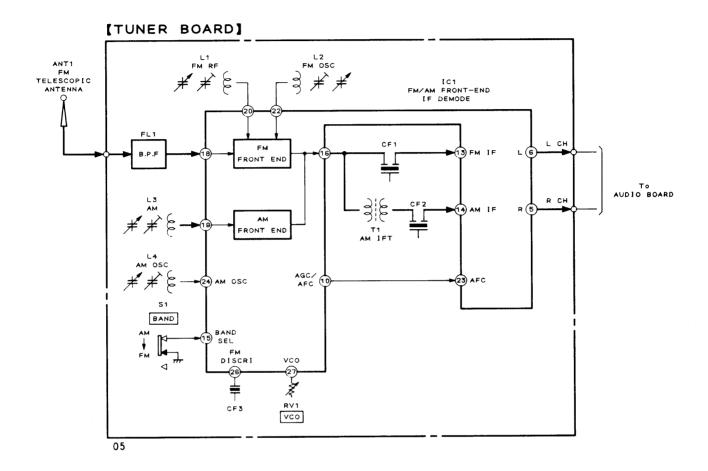
Remove the solder bridge while adjusting the tracking gain. (After adjustment make the solder bridge.)

Remove the solder bridge while adjusting the focus gain. (After adjustment make the solder bridge.)

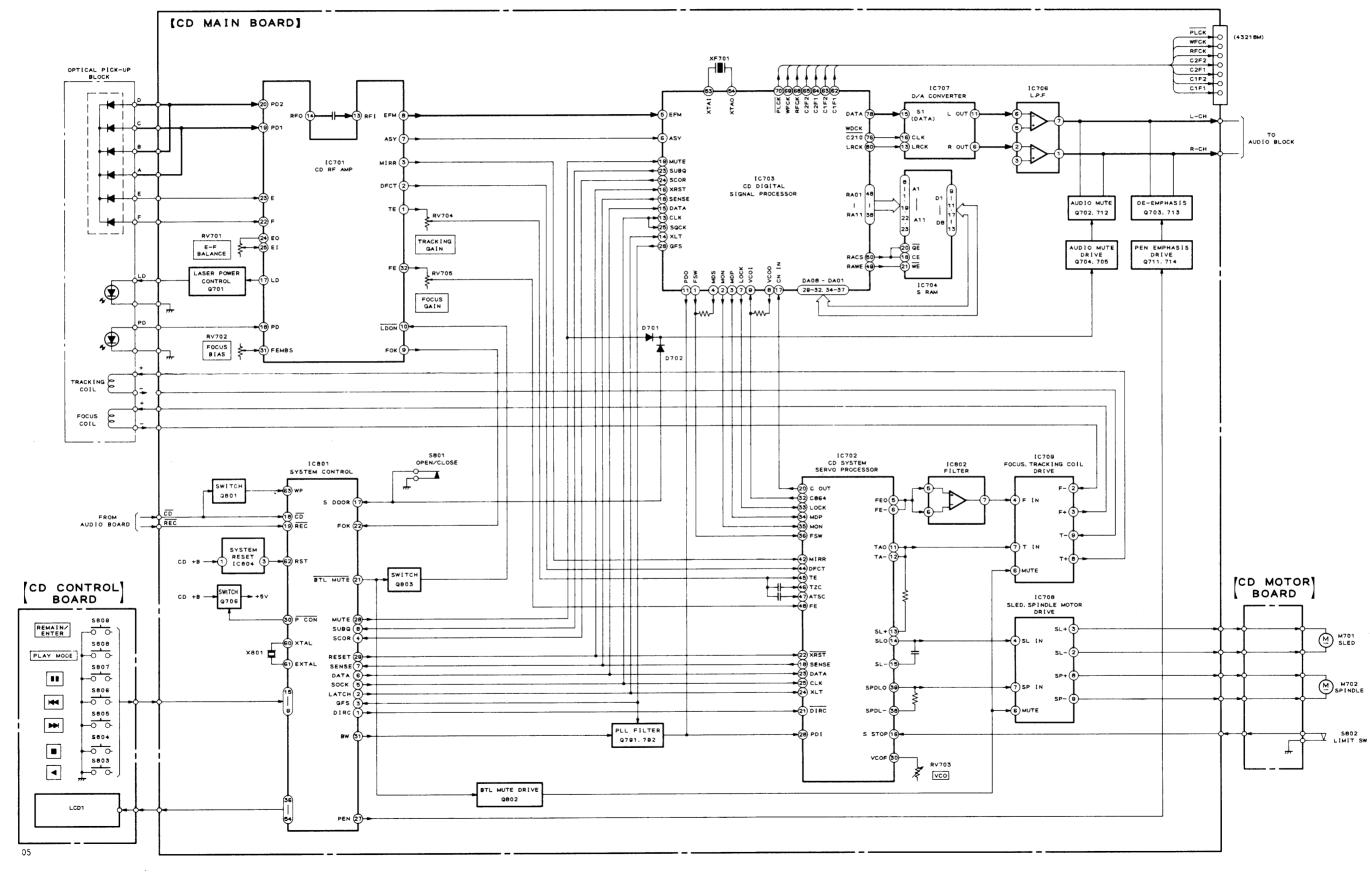
RV704

SECTION 6 DIAGRAMS

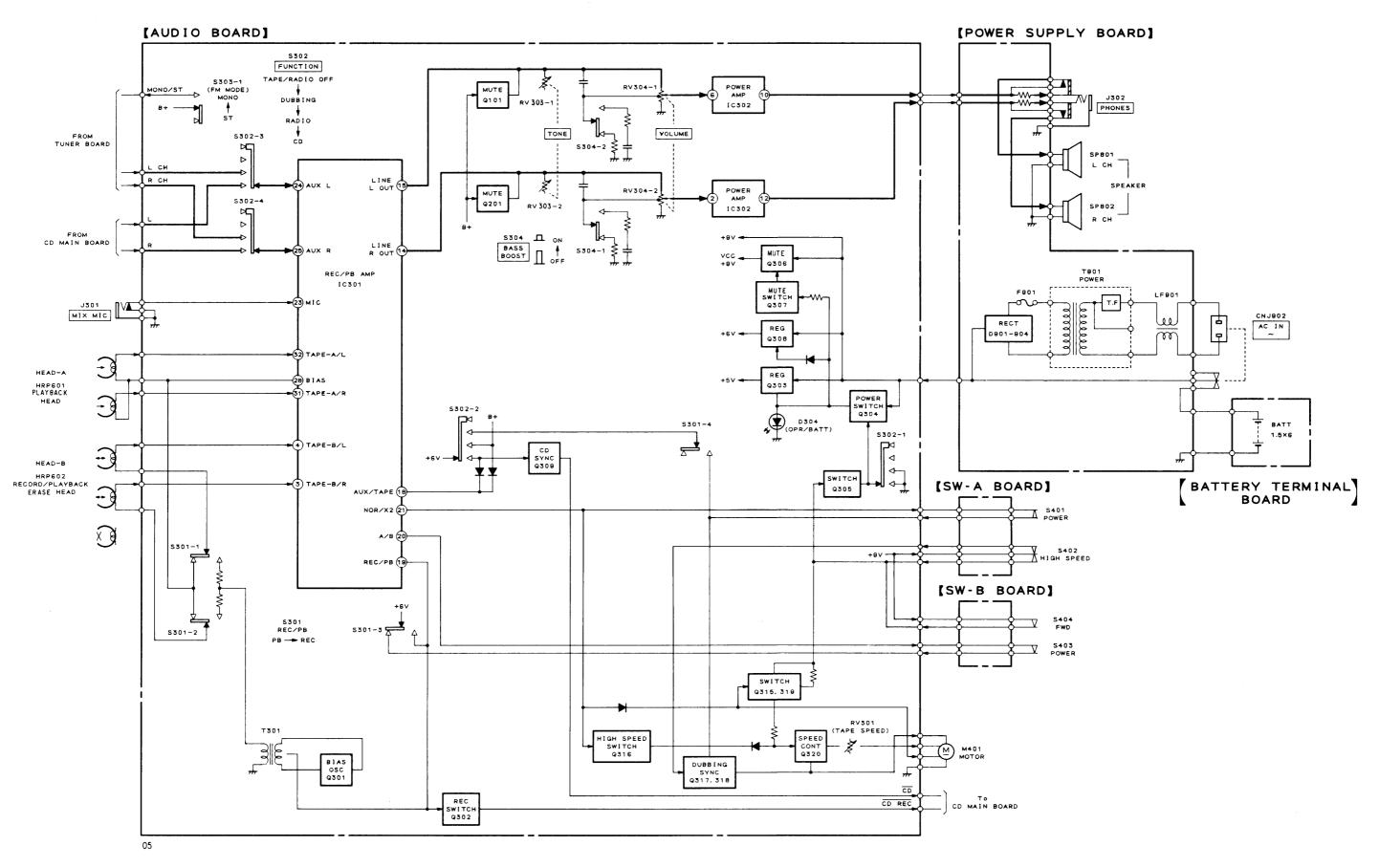
6-1. TUNER SECTION BLOCK DIAGRAM

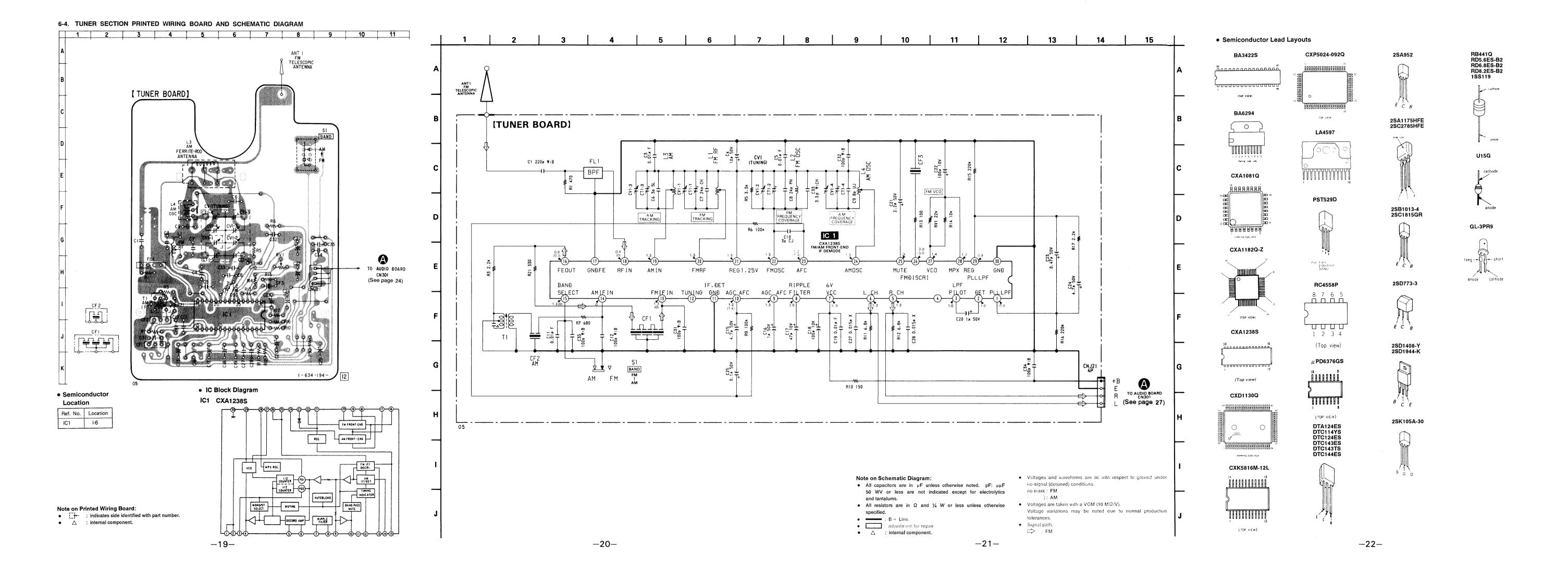


6-2. CD SECTION BLOCK DIAGRAM



6-3. TAPE, POWER SUPPLY SECTION BLOCK DIAGRAM





6-5. AUDIO, CD, POWER SUPPLY SECTION PRINTED WIRING BOARDS

• See page 22 for Semiconductor Lead Layouts.

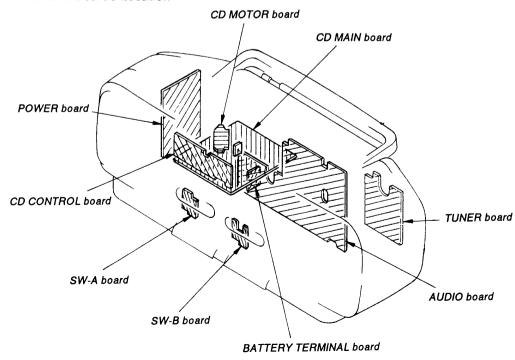
- Note on Printed Wiring Board:

 • parts extracted from the component side.
- parts extracted from the component side.
 parts mounted on the conductor side.
 Jumper wire connected to the ground pattern on the component side.

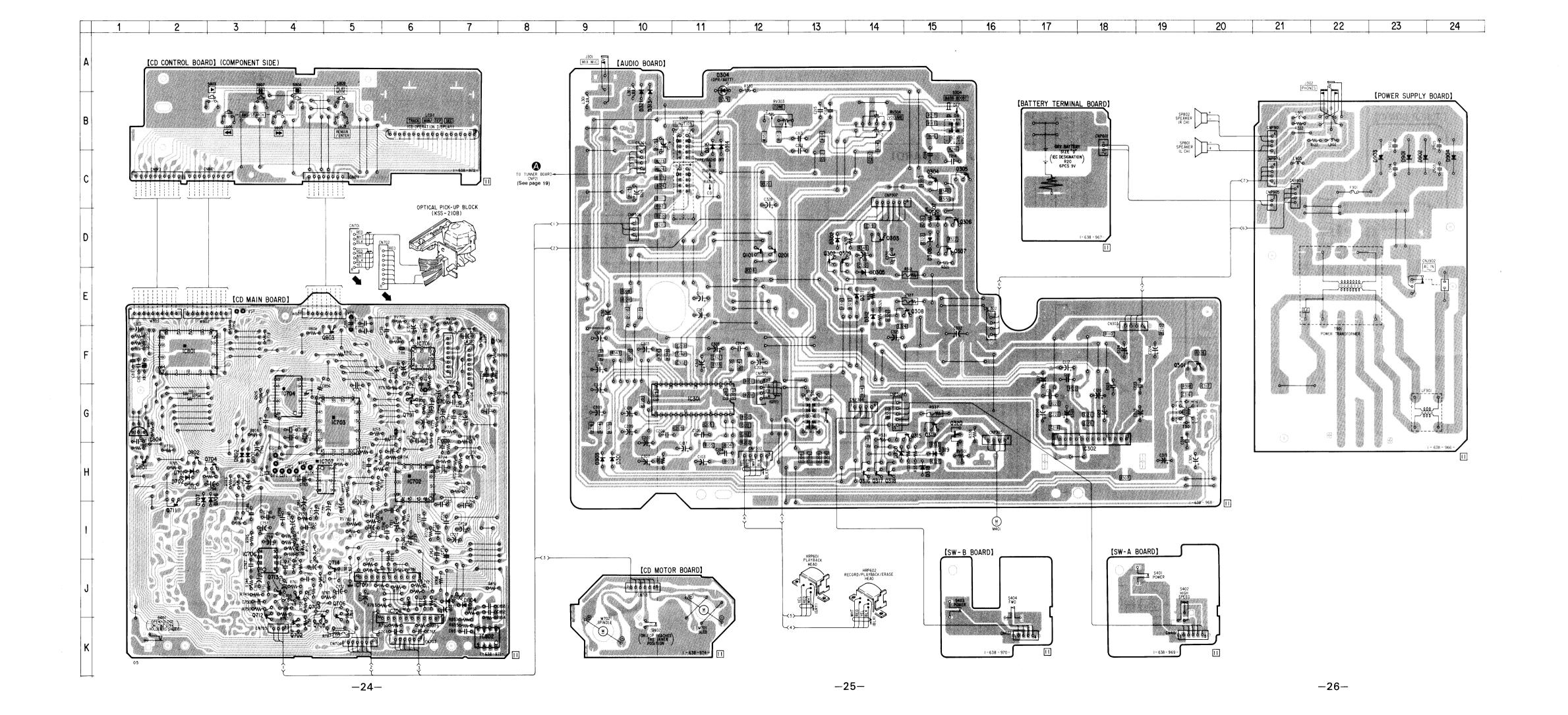
Semiconductor i ocation

Semiconductor Location										
Ref. No.										
D301 D302 D303 D304 D305 D307 D308 D311 D312 D313 D314 D315 D318 D319 D320 D321 D701 D702 D706 D707 D801 D802 D706 D707 D801 D802 D804 D805 D901 D902 D903 D904 IC301 IC702 IC703 IC704 IC706 IC707 IC708										

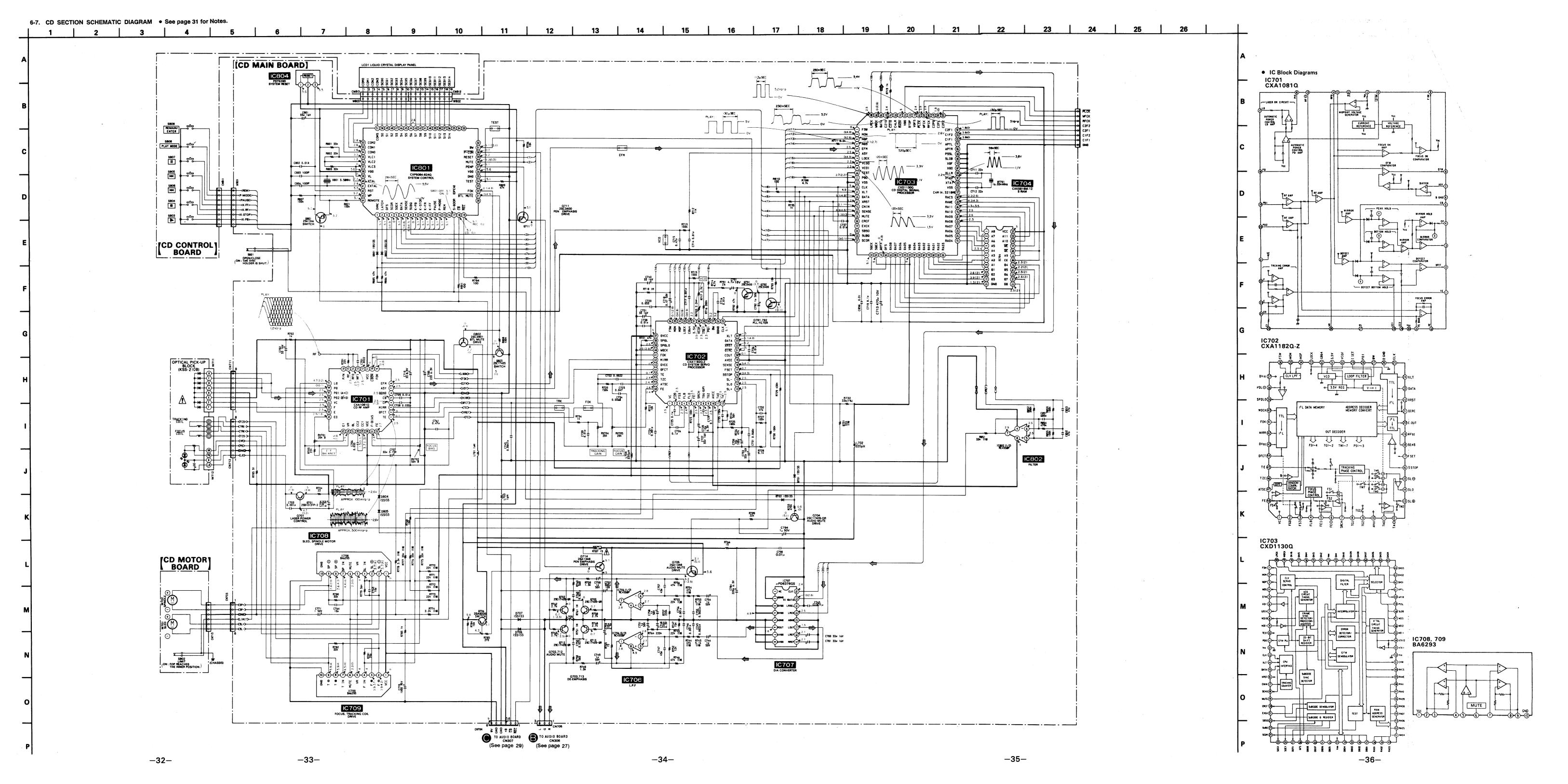
Circuit Boards Location



-23-



-30-



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)

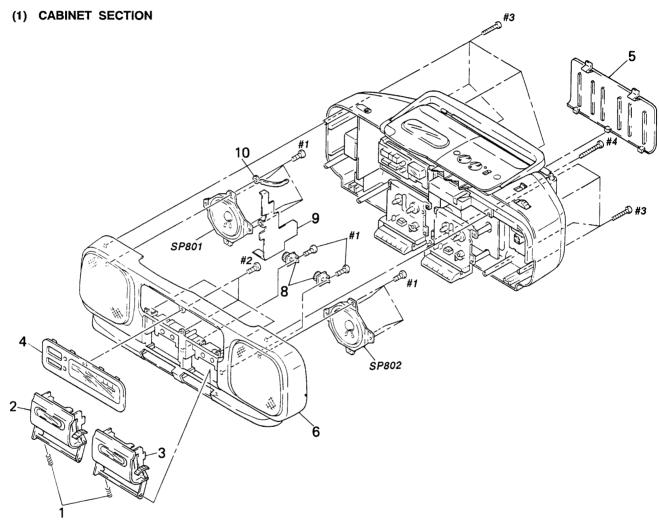
Parts Color Cabinet's Color

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be antici-pated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

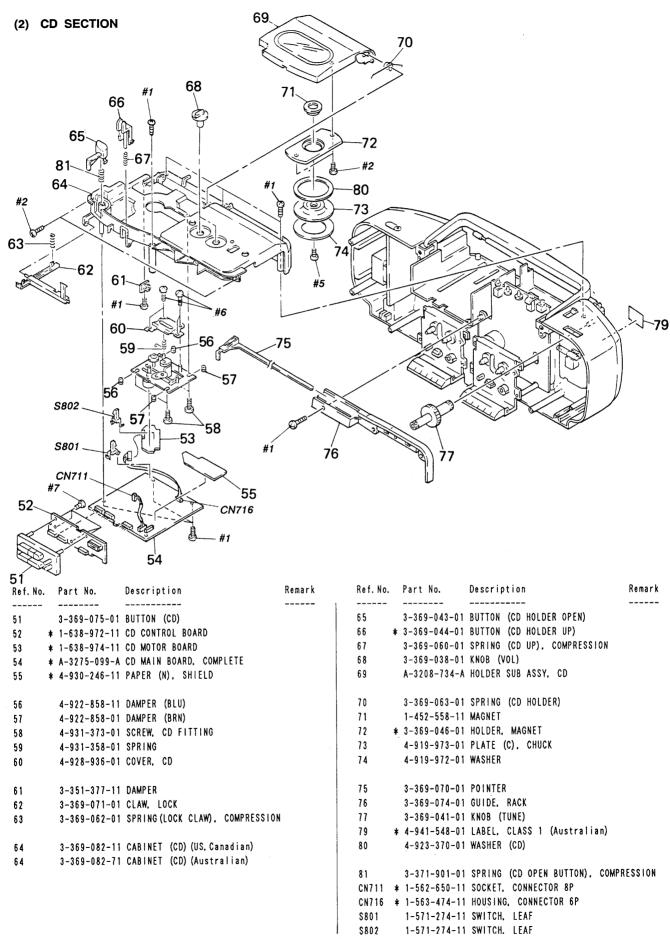
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

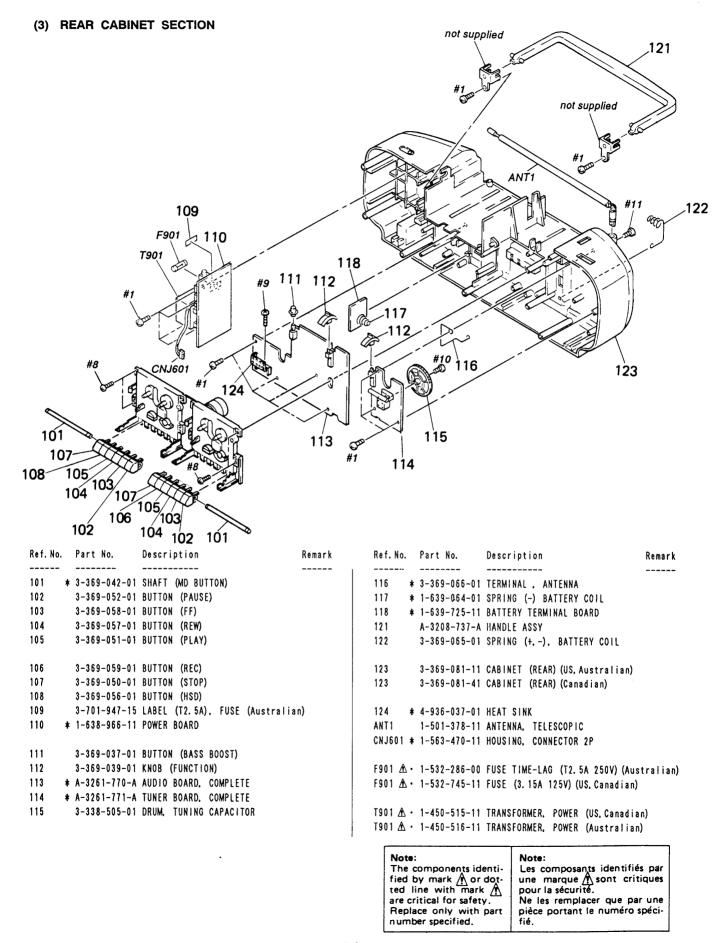
Replace only with part number specified.

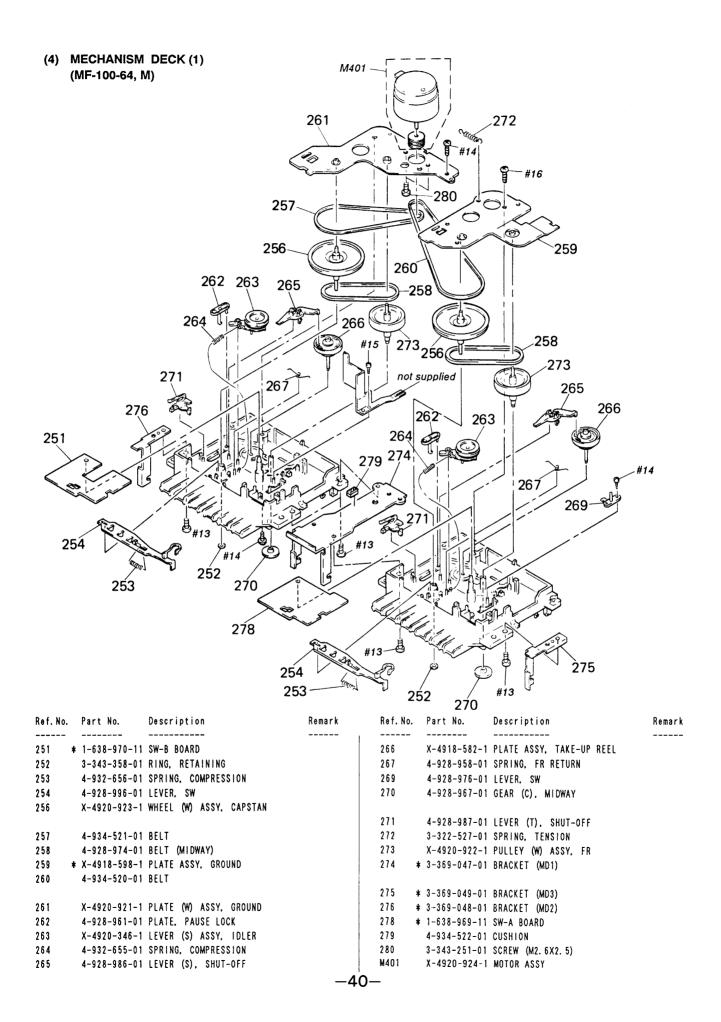
Les composants identifiés par une marque A sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

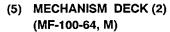


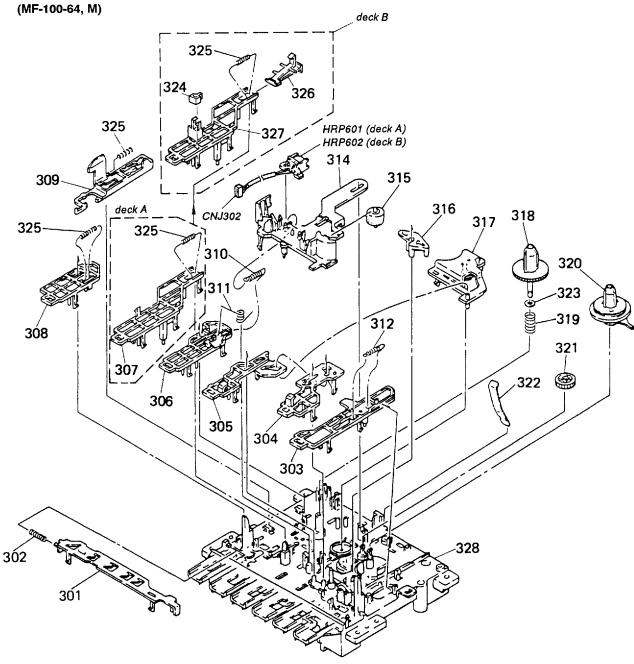
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-369-061-01	SPRING (C HOLDER), COMPRESSION	١	8	3-351-377-01	DAMPER	
2	A-3208-730-A	HOLDER (A) ASSY, CASSETTE		9 *	3-372-250-01	PLATE, ACOUSTIC ISOLATION	
3	A-3208-731-A	HOLDER (B) ASSY, CASSETTE		10	3-703-150-11	STOPPER. WIRING	
4	A-3208-841-A	PANEL ASSY, FRONT		SP801	1-544-154-11	SPEAKER	
5	3-343-064-31	LID. BATTERY CASE		SP802	1-544-154-11	SPEAKER	
6	A-3208-728-A	CABINET (FRONT) SUB ASSY	İ				



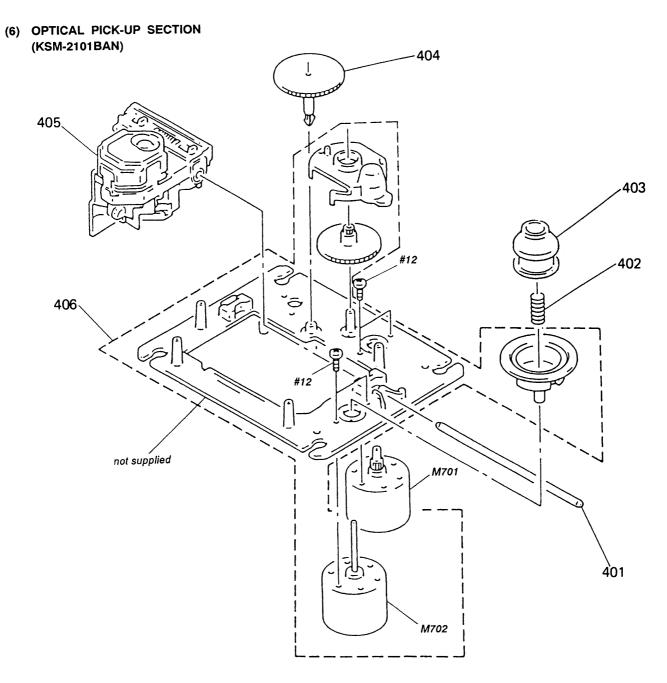








Ref. No.	Part No.	Description	Remark		Part No.	Description	Remark
301	4-932-695-01	SLIDER (FR), LOCK		317	X-4920-347-1	LEVER (S) ASSY. FR	
302	4-932-656-01	SPRING, COMPRESSION		318		GEAR (C). SUPPLY REEL	
303	4-928-994-01	LEVER, PAUSE		319		SPRING. COMPRESSION	
304	4-928-993-01	LEVER, FF		320	X-4920-350-1	GEAR (S) ASSY, T REEL	
305	4-928-992-01	LEVER, REW		321	3-343-285-01	GEAR, FF	
306	4-928-991-01	LEVER. PLAY		322	4-928-957-01	RETAINER, CASSETTE	
307	4-921-195-01	LEVER (AC), REC		323	4-931-795-11	WASHER	
308	4-928-985-01	LEVER, STOP		324	1-543-525-11	HEAD, MAGNETIC (ERASE)	
309	4-936-206-01	SLIDER (S), EJECT		325	4-932-648-01	SPRING. COMPRESSION	
310	4-928-972-01	SPRING, TENSION		326	4-928-960-02	CLAW, SAFETY	
311	4-928-973-01	SPRING		327	4-934-511-01	LEVER (S), REC	
312	3-313-372-01	SPRING. TENSION		328		CHASSIS (S) ASSY. MECHANICAL	
314	4-932-693-03	DECK(S), HEAD		CNJ302 *		HOUSING, CONNECTOR 5P	
315	4-928-962-01	PINCH ROLLER		HRP601		HEAD. MAGNETIC (REC/PB)	
316	4-928-982-01	LEVER (C)		HRP602		HEAD, MAGNETIC (REC/PB)	



Ref. No.	Part No.	Description Remark
401	4-917-565-01	SHAFT, SLED
402	2-625-191-01	SPRING, COMPRESSION
403	2-625-186-01	RING (C). CENTER
404	2-625-188-02	GEAR (A)
405 Æ∙		DEVICE, OPTICAL KSS-210B
406	X-2625-133-2	CHASSIS ASSY, TT (WITH M702 SPINDLE)
M701	X-2625-132-1	GEAR ASSY, MOTOR (SLED)

Note:

Note:

The components identified by mark A or dotted line with mark A are critical for safety.

Replace only with part number specified.

Note:

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

SECTION 8 ELECTRICAL PARTS LIST

AUDIO

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
 All resistors are in ohms.
 METAL: Metal-film resistor
 METAL OXIDE: Metal Oxide-film resistor
 F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS In each case, u: μ, for example: uA...: μA..., uPA...: μPA..., uPB...: μPC.... μPC.... μPC....
- 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 A sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

When including parts by reference number, please include the board name.

Ref. No.	Part No.	Description	Description		emark	Ref. No.	Part No.	Description			emark
	* A-3261-770-A	AUDIO BOARD.	COMPLETE	-		C201	1-163-199-00	CERAMIC MELF	560PF	10%	50V
		******	******			C202	1-163-199-00	CERAMIC MELF	560PF	10%	50V
						C203	1-124-477-11		47 u F	20%	25V
	3-369-037-01	BUTTON (BASS I	BOOST)			C204	1-162-840-11		0. 012uF	10%	16V
		KNOB (FUNCTION	•			C205		CERAMIC MELF	470PF	10%	50V
	* 4-936-037-01	HEAT SINK	•								
	7-685-870-01	SCREW +BVTT 32	X5 (S)			C206	1-102-121-00	CERAMIC	2200PF	10%	50 V
						C207	1-124-927-11	ELECT	4. 7uF	20%	100V
		< CAPACITOR >				C208	1-163-201-00	CERAMIC MELF	680PF	10%	50V
						C209	1-124-927-11	ELECT	4. 7uF	20%	100V
C101	1-163-199-00	CERAMIC MELF	560PF	10%	50V	C210	1-163-181-00	CERAMIC MELF	100PF	10%	50 V
C102	1-163-199-00	CERAMIC MELF	560PF	10%	50V						
C103	1-124-477-11	ELECT	47uF	20%	25V	C211	1-124-902-00	ELECT	0. 47uF	20%	50V
C104	1-162-840-11	CERAMIC	0. 012uF	10%	16V	C212	1-163-201-00	CERAMIC MELF	680PF	10%	50V
C105	1-163-197-00	CERAMIC MELF	470PF	10%	50V	C213	1-162-847-11	CERAMIC	0.047uF	10%	16V
						C214	1-162-850-11	CERAMIC	0. 082uF	10%	16V
C106	1-102-121-00	CERAMIC	2200PF	10%	50V	C215	1-102-125-00	CERAMIC	4700PF	10%	50V
C107	1-124-927-11	ELECT	4. 7uF	20%	100V						
C108	1-163-201-00	CERAMIC MELF	680PF	10%	50V	C217	1-124-927-11	ELECT	4. 7uF	20%	100V
C109	1-124-927-11	ELECT	4. 7uF	20%	100V	C218	1-102-119-00	CERAMIC	1500PF	10%	50 V
C110	1-163-181-00	CERAMIC MELF	100PF	10%	50V	C219	1-163-181-00	CERAMIC MELF	100PF	10%	50V
						C220	1-124-477-11	ELECT	47uF	20%	25V
C111	1-124-902-00	ELECT	0.47uF	20%	50V	C221	1-163-181-00	CERAMIC MELF	100PF	10%	50V
C112	1-163-201-00	CERAMIC MELF	680PF	10%	50 V						
C113	1-162-847-11	CERAMIC	0. 047uF	10%	16V	C222	1-124-443-00	ELECT	100uF	20%	10V
C114	1-162-850-11	CERAMIC	0.082uF	10%	16V	C223	1-130-495-00	MYLAR	0. 1uF	5%	50V
C115	1-102-125-00	CERAMIC	4700PF	10%	50V	C224	1-124-473-11	ELECT	1000uF	20%	10V
						C225	1-163-053-00	CERAMIC MELF	0.0033uF	20%	16V
C117	1-124-927-11	ELECT	4. 7uF	20%	100V	C226	1-124-463-00	ELECT	0. 1uF	20%	50 V
C118	1-102-119-00	CERAMIC	1500PF	10%	50 V						
C119	1-163-181-00	CERAMIC MELF	100PF	10%	50V	C301	1-124-902-00	ELECT	0. 47uF	20%	50V
C120	1-124-477-11	ELECT	47uF	20%	25V	C302	1-163-063-00	CERAMIC MELF	0. 022uF		25V
C121	1-163-181-00	CERAMIC MELF	100PF	10%	50 V	C303	1-124-903-11	ELECT	1uF	20%	50V
						C305	1-126-176-11	ELECT	220uF	20%	10V
C122	1-124-443-00	ELECT	100uF	20%	10V	C306	1-124-927-11	ELECT	4. 7uF	20%	100V
C123	1-130-495-00	MYLAR	0. 1uF	5%	50V						
C124	1-124-473-11	ELECT	1000uF	20%	10V	C307	1-126-233-11	ELECT	22 u F	20%	50 V
C125	1-163-053-00	CERAMIC MELF	0. 0033uF	20%	16V	C308	1-126-233-11	ELECT	22uF	20%	50V
C126	1-124-463-00	ELECT	0. 1uF	20%	50V	C309	1-124-477-11	ELECT	47uF	20%	25V
						C310	1-124-927-11	ELECT	4. 7uF	20%	100V
						C311	1-124-907-11	ELECT	10uF	20%	50 V

AUDIO

		Description			Remark	Ref. No.	Part No.	Description			Remark
C312	1-163-063-00	CERAMIC MELF	0. 022uF		25V	D318	8-719-110-08		ES-B2		
C312	1-124-443-00		100uF	20%	10V	D319	8-719-911-19		9		
C314	1-130-471-00		0. 001uF	5%	50V	D320	8-719-911-19	DIODE 18811	9		
C315	1-124-477-11		47uF	20%	25V	D321	8-719-911-19	DIODE 18811	9		
C316		CERAMIC MELF	0.0033uF	20%	16V						
								< 10 >			
C317	1-163-059-00	CERAMIC CHIP	0.01uF	10%	50V						
C318	1-126-176-11		220uF	20%	10V	IC301	8-759-501-37				
C319	1-163-059-00	CERAMIC CHIP	0.01uF	10%	50V	10302	8-759-820-22	IC LA4597			
C320	1-163-059-00	CERAMIC CHIP	0.01uF	10%	50V						
C321	1-163-063-00	CERAMIC MELF	0. 022uF		25V			< JACK >			
						1001	1 500 000 11	LACK (MIV MI)	2)		
C322		CERAMIC CHIP	0.01uF	10%	50V	J301	1-563-330-11	JACK (MIX MIC	·)		
C324		CERAMIC MELF	0. 022uF		25V			< COLL >			
C325	1-126-176-11		220uF	20%	10V			< COIL >			
C326		CERAMIC CHIP	0.01uF	10%	50V		1 410 004 11	LNDUCTOR	4 7		
C327	1-163-063-00	CERAMIC MELF	0. 022uF		2 5 V	L301	1-410-324-11		4. 7uH 4. 7uH		
					2511	L302	1-410-324-11	INDUCTOR	4. run		
C328	1-124-482-11		33uF	20%	i i			< TRANSISTOR			
C330	1-126-176-1		220uF	20%	10V			< IKANSISION	,		
C332	1-126-017-1		6800uF	20%		0101	0 700 000 74	DANCICTOR	DTC143TS	•	
C333	1-124-120-1		220uF	20%		0101	8-729-900-74		DTC143T3		
C336	1-124-120-1	I ELECT	220uF	20%	25V	0201	8-729-900-74		2SC1815-		
						Q301	8-729-281-53		DTC143E		
		< CONNECTOR >				Q302	8-729-921-65		2SD1944-		
						Q303	8-729-905-67	INANSISION	2301344	- K	
		1 HOLDER, CABLE				0304	8-729-119-76	TRANSISTOR	2SA1175-	-HFF	
		1 HOLDER, CABLE				Q304 Q305	8-729-904-36		DTC114Y		
CN303	* 1-565-385-1	1 HOLDER, CABLE	41			Q305		TRANSISTOR	2SB1013		
		4 DIN AANNEATAI	. (DC DAADO)	4 D		Q307		TRANSISTOR	DTC114E		
CNP301	* 1-506-986-1	1 PIN, CONNECTOR	COC BOARD)	4 F		Q307		TRANSISTOR	2SD773-		
		1 PIN, CONNECTO				4300	0 123 111 02	. THAMOTOTON	200110	• .	
CNP303	* 1-505-98/-1	1 PIN, CONNECTO	R (PC BUARD)	ЭΓ		Q309	8-729-900-89	TRANSISTOR	DTC144E	S	
0110004	. 1 500 000 1	1 PIN, CONNECTO	D (DC DOADO)	A P		Q315		B TRANSISTOR	2SA952-		
		1 PIN, CONNECTO				Q316		TRANSISTOR	DTC114E		
		1 PIN, CONNECTO				Q317		5 TRANSISTOR	DTC114Y		
CNP306	* 1-500-985-1	1 PIN, CONNECTO	R (FC BOARD) P (PC ROARD)	₽.Þ		Q318		3 TRANSISTOR	2SC1815		
CNP3U1	¥ 1-300-900-1	I FIN, CONNECTO	n (I C DONNO)	VI		2010					
		< DIODE >			•	0319	8-729-202-0	3 TRANSISTOR	2SD1408	-Y	
		(01002)				0320		O TRANSISTOR	2SK105A		
D301	8-719-911-1	9 DIODE 18811	9								
D302	8-719-911-1							< RESISTOR :	>		
D303	8-719-911-1										
D304	8-719-918-7		R9 (OPR/BATT	Γ)		R101	1-249-409-1	1 CARBON	220	5%	1/4W
5004			•			R102	1-249-409-1	1 CARBON	220	5%	1/4W
D305	8-719-109-8	9 DIODE RD5. 6	ES-B2			R103	1-216-175-0	O CARBON MELF	110	5%	1/8W
D307	8-719-911-1					R104	1-215-479-0	O METAL	270K	1%	1/6W
D308	8-719-109-9		ES-B2			R105	1-249-425-1	1 CARBON	4. 7K	5%	1/4W
D311	8-719-986-7										_
- * * * *						R106	1-249-428-1		8. 2K		1/4W
D312	8-719-109-9	7 DIODE RD6. 8	ES-B2			R107	1-249-428-1		8. 2K		1/4W
D313	8-719-911-		9			R108	1-249-422-1		2.7K	5%	1/4W
D314	8-719-911-		9			R110	1-249-429-1	*	10K	5%	1/4W
D315	8-719-911-					R111	1-249-429-1		10K	5%	1/4W
						R112	1-216-229-0	O CARBON MELF	20K	5%	1/8W

AUDIO BATTERY TERMINAL CD CONTROL

Ref. No.	Part No.	Description			Remar!		lo. Part No.	Descripti	o n		Remark
R114	1-249-422-11	CARBON	2.7K	5%	1/4W	R329	1-215-406-0) METAL	240	1%	1/6W
R115	1-249-414-11		560	5%	1/4W	R330	1-249-416-1		820	5%	1/4W
R116	1-249-423-11		3. 3K		1/4W	R331	1-249-421-1		2. 2K		1/4W
R117	1-249-424-11		3. 9K		1/4W	R332	1-249-425-1		4. 7K		1/4W
R120	1-249-401-11		47	5%	1/4W	R333	1-249-441-1		100K	5%	1/4W
R123	1-249-423-11	CARBON	3. 3K	5%	1/4W	R334	1-247-804-1	1 CARBON	75	5%	1/4W
R124	1-249-431-11	CARBON	15K	5%	1/4W	R335	1-249-407-1	1 CARBON	150	5%	1/4W
R201	1-249-409-11	CARBON	220	5%	1/4W	R336	1-249-424-1	1 CARBON	3.9K	5%	1/4W
R202	1-249-409-11	CARBON	220	5%	1/4W	R337	★ · 1-217-639-0	O FUSIBLE	2. 2	5%	1/4W F
R203	1-216-175-00	CARBON MELF	110	5%	1/8W	R338	1-249-437-1	1 CARBON	47K	5%	1/4W
R204	1-215-479-00		270K		1/6W	R339	1-249-433-1		22K	5%	1/4W
R205	1-249-425-11		4. 7K		1/4W	R340	1-249-417-1		1 K	5%	1/4W
R206	1-249-428-11	CARBON	8. 2 K		1/4W	R341	1-249-417-1		1 K	5%	1/4W
R207	1-249-428-11		8. 2 K		1/4W	R342	1-249-441-1		100K		1/4W
R208	1-249-422-11	CARBON	2. 7K	5%	1/4W	R343	1-249-421-1		2. 2K		1/4W
		0.4.00.0.11	404	F4/	4 / 401	R345	1-249-405-1	1 CARBON	100	5%	1/4W
R210	1-249-429-11		10K	5%	1/4W			/ WADIANI	E RESISTOR		
R211	1-249-429-11		10K	5%	1/4W			< VARIABL	E KESISIUK	,	
R212		CARBON MELF	20K 2.7K	5% 5%	1/8W 1/4W	RV301	1-241-036-2	1 DEC ADI	CADDON 1V		
R214	1-249-422-11		560	5%	1/4W	RV301				Y /50Y	(TONE)
R215	1-249-414-11	CANDON	300	J/8	1/ 4#	RV304					•
R216	1-249-423-11	CARRON	3. 3K	5%	1/4W	117304	1 241 374 1	I HEU, YAH,	ONNOUN JUI	N/ 30K	(VOLOME)
R217	1-249-424-11		3. 9K		1/4W			< SWITCH	>		
R220	1-249-401-11		47	5%	1/4W				•		
R223	1-249-423-11		3. 3K		1/4W	\$301	1-572-325-1	1 SWITCH, S	LIDE (REC/I	PB)	
R224	1-249-431-11		15K	5%	1/4W	\$302	1-572-236-1				CTION)
						\$304	1-572-833-1	1 SWITCH, P	USH (1 KEY)	(BAS	S BOOST)
R301	1-249-417-11	CARBON	1 K	5%	1/4W						
R302	1-247-903-00	CARBON	1M	5%	1/4W			< TRANSFO	RMER >		
R303	1-249-427-11	CARBON	6.8K	5%	1/4W						
R304	1-249-429-11	CARBON	10K	5%	1/4W	T301	1-433-346-1	1 TRANSFORM	ER, BIAS O	SCILL	ATION
R305	1-249-427-11	CARBON	6. 8K	5%	1/4W						
0007	1 047 000 11	CARRON MELE	250	E &	1/8W	****	*******	********	*****	****	*******
R307		CARBON MELF	360 6.8K	5% 5%	1/4W		* 1-639-725-1	1 RATTERV T	ERMINAL RO	A R D	
R308 R309	1-249-427-11		5. 6	5%	1/6W		T 1 003 120 1		*****		
R310	1-249-425-11		4. 7K	5%	1/4W			*********			
	· 1-217-638-00		1. 5	5%	1/4W F		3-369-064-0	1 SPRING (-), BATTERY	COIL	
0040	1 940 444 44	CADDON	220	Eø/	1 / AW			/ CONNECT	nr s		
R313	1-249-411-11		330 10 K	5% 5%	1/4W 1/4W			< CONNECT	on /		
R314	1-249-429-11		10K 1K	5%	1/4W	CNDE	01 * 1-506-984-1	1 PIN CON	FCTOR (PC	RAARN) 2P
R315 R316	1-249-417-11		1 K	5%	1/4W	UNITO	VI T I 300-304-1	, i in, com	LVION (IV	POKILD	, 41
R318	1-249-417-11		2. 2K		1/4W	****	******	*******	******	****	******
	4 444		4.50	F4.	4 / 4111		± 1 CAA A3A 1	1 00 000700	I DOADO		
R320	1-249-425-11		4. 7K		1/4W		* 1-638-972-1				
R321	1-249-407-11		150	5%	1/4W			*******	******		
R322	1-249-437-11		47K	5% 5%	1/4W 1/4W		3-369-075-0	1 RIITTON (C	יח)		
R323	1-249-425-11		4. 7K	5% 5%	1/4W 1/4W		7-685-105-1			NUN-	SLIT
R324	1-249-417-11	I CARDUN	1 K	J70	1/ 411		7-000-100-1	3 110 TF 27	io, 111 L Z,	- אטא	VL (
R325	1-249-427-11	1 CARBON	6. 8K	5%	1/4W						
R326	1-249-405-1	1 CARBON	100	5%	1/4W						
	• 1-217-642-00	FUSIBLE	6.8	5%	1/4W F	1 1	Note: The components		ote: es composai	nts id	entifiés par
R328	1-249-411-1		330	5%	1/4W	f t a F	ine components (ied by mark (ied line with ma ire critical for safi Replace only with manumber specified.	ordot-unink ∱ po ety, Ne h part pi	e marque our la sécuri e les rempla èce portant	∕î∖soi té. acer d	nt critiques que par une iméro spéci-
							Torridor specified.		·•		

CD CONTROL CD MAIN

	Part No.	Description			mark 	Ref. No.	Part No.	Description 			mark
		< CONNECTOR >				C725	1-136-165-00		0. 1uF	5%	50V
		COMMECTOR			}	C726	1-136-165-00		0. 1uF	5%	50V
CN911	+ 1_566_070_11	HOUSING. CONNEC	TOR (PC ROARD)	8 P		C727	1-124-034-51		33uF	20%	16V
		HOUSING, CONNECT	•	9 P		C728	1-131-377-00		10uF	10%	10 V
		HOUSING, CONNECT		10P		C729	1-136-165-00		0. 1uF	5%	50V
CNOIS	¥ 1-306-431-11	HOUSTNO, CONNECT	ON (FC BOAND)	101		0129	1-130-103-00	1 I LM	o. rur	3/6	301
		< LIQUID CRYSTA	AL DISPLAY >			C730	1-126-157-11	FLECT	10uF	20%	16V
		C LIQUID UNIOTA	C DIVIENT			C731	1-162-849-11		0. 068uF	10%	16V
LCD1	1-808-030-11	DISPLAY PANEL.	LIGHID CRYSTA	\1		C732	1-162-215-31		47PF	5%	50V
LUUI	1 000 300 11	DIOI ENT TAREE,	ZIQOID ONIOIN			C733	1-124-034-51		33uF	20%	16V
		< SWITCH >				C734	1-130-481-00		0. 00'68uF	5%	50V
						• • • •					•••
\$803	1-572-198-11	SWITCH, KEYBOAF	RD (▶)			C735	1-162-284-31	CERAMIC	150PF	10%	50V
\$804	1-572-198-11	SWITCH, KEYBOAR	RD (m)			C736	1-161-379-00	CERAMIC	0.01uF	20%	25V
\$805	1-572-198-11	SWITCH, KEYBOAR	(▶ ►)			C737	1-161-379-00	CERAMIC	0.01uF	20%	25V
\$806		SWITCH, KEYBOAR				C738	1-161-379-00	CERAMIC	0.01uF	20%	25V
• • • •		ŕ				C739	1-161-379-00	CERAMIC	0.01uF	20%	25V
\$807	1-572-198-11	SWITCH, KEYBOAR	RD (11)								
\$808	1-572-198-11	SWITCH, KEYBOAR	RD (PLAY MODE)			C740	1-124-034-51	ELECT	33uF	20%	16V
\$809	1-572-198-11	SWITCH, KEYBOAR	RD (REMAIN/ENT	(ER)		C743	1-130-479-00	MYLAR	0.0047uF	5%	50V
						C744	1-124-903-11	ELECT	1uF	20%	50V
*****	******	***********	**********	*****	****	C745	1-130-475-00	MYLAR	0.0022uF	5%	50V
					Ì	C746	1-130-471-00	MYLAR	0.001uF	5%	50V
	* A-3275-099-A	CD MAIN BOARD,	COMPLETE								
		*********	******			C747	1-102-966-00	CERAMIC	43PF	5%	50V
						C748	1-126-176-11	ELECT	220uF	20%	10V
	* 4-930-246-11	PAPER (N), SHI	ELD			C749	1-124-903-11	ELECT	1uF	20%	50V
						C750	1-130-488-00	MYLAR	0. 027uF	5%	50V
		< CAPACITOR >				C751	1-124-903-11	ELECT	1uF	20%	50V
0704	1 100 175 00	10/1.45	0.0000	ra/	E01/	0750	1-124-604-00	FLECT	330uF	20%	10V
C701	1-130-475-00			5%	50V	C752			220uF	20%	107
C702	1-124-034-51			20%	16V	C753 C754	1-126-176-11		1uF	20%	50V
C703	1-162-294-31			10%	50V					5%	50 V
C704	1-124-584-00			20%	10V 10V	С755 С756	1-130-475-00 1-130-471-00		0. 0022uF 0. 001uF	5%	50 V
C705	1-126-176-11	ELEVI	220uF 2	20%	104	0730	1-130-4/1/00	MILAN	v. vv tut	376	304
C706	1-130-489-00	MYLAR	0. 033uF	5%	50V	C757	1-102-966-00	CERAMIC	43PF	5%	50V
C707	1-131-374-00			10%	16V	C758	1-124-903-11	ELECT	1 u F	20%	50V
C708	1-130-489-00			5%	50V	C759	1-124-903-11	ELECT	1uF	20%	50V
C709	1-130-483-00			5%	50V	C760	1-130-488-00	MYLAR	0. 027uF	5%	50V
C710	1-124-229-00			20%	100	C761	1-136-173-00		0. 47uF	5%	50V
• , , ,											
C711	1-162-207-31	CERAMIC	22PF	5%	50V	C763	1-162-199-31	CERAMIC	10PF	5%	50V
C712	1-162-207-31	CERAMIC	22PF	5%	50V	C764	1-162-199-31	CERAMIC	10PF	5%	50V
C713	1-124-472-11	ELECT	470uF	20%	10V	C765	1-162-294-31	CERAMIC	0.001uF	10%	50V
C714	1-161-379-00	CERAMIC	0.01uF	20%	25V	C770	1-124-360-00	ELECT	1000uF	20%	16V
C715	1-136-173-00	FILM	0. 47uF	5%	50V	C771	1-124-903-11	ELECT	1uF	20%	50V
C716	1-130-483-00	MYLAR		5%	50V	C780	1-124-034-51		33uF	20%	16V
C717	1-162-294-31			10%	50V	C781	1-124-034-51		33 u F	20%	16V
C718	1-124-902-00			20%	50 V	C784	1-126-176-11		220uF	20%	10V
C719	1-162-851-11		0. 1uF		16V	C790	1-161-379-00		0.01uF	20%	25V
C720	1-130-489-00) MYLAR	0. 033uF	5%	50V	C791	1-126-163-11	ELECT	4. 7uF	20%	50V
C721	1-124-034-51	FIFCT	33uF	20%	16V	C792	1-126-160-11	ELECT	1uF	20%	50V
C722	1-130-475-00			5%	50V	C794	1-124-903-11		1uF	20%	50V
C723	1-162-847-11			10%	167	C801	1-124-034-51		33uF	20%	16V
C724	1-162-294-31			10%	50V	C802	1-161-379-00		0. 01uF	20%	25V
V127	1 102 207 0	, Jennini V		. •,•				· =········· •			_ , ,

CD MAIN

	Part No.	Description			Remark		Part No.	Description			Remark
C803	1-162-282-31	CERAMIC	100PF	10%	50V			< TRANSISTOR	>		~
C804	1-162-282-31		100PF	10%	50V			THAROTOTOR	,		
C851	1-162-292-31		680PF	10%	50V	0701	8-729-801-84	TRANSISTOR	2SB1013	-4	
C852	1-162-215-31		47PF	5%	50V	0702	8-729-119-78		2SC2785		
C853	1-162-215-31		47PF	5%	50V	0703	8-729-119-78		2SC2785		
C856	1-101-004-00		0. 01uF	•••	50 V	0704	8-729-119-78		2SC2785		
****						0705	8-729-900-63		DTA124E		
		< CONNECTOR >									
						0706	8-729-119-76	TRANSISTOR	2SA1175	-HFE	
CN701 *	1-564-710-11	PIN. CONNECTOR	(SMALL TYPE) 8P		0711	8-729-900-36	TRANSISTOR	DTC124E	S	
CN702 *	1-564-710-11	PIN. CONNECTOR	(SMALL TYPE) 8P		0712	8-729-119-78	TRANSISTOR	2SC2785	-HFE	
CN704 *	1-506-988-11	PIN, CONNECTOR	(PC BOARD)	6 P		Q713	8-729-119-78	TRANSISTOR	2SC2785	-HFE	
						0714	8-729-900-63	TRANSISTOR	DTA124E	S	
CN705 *	1-506-985-11	PIN, CONNECTOR	(PC BOARD)	3 P							
CN773 *	1-563-976-11	HOUSING, CONNE	CTOR 6P			Q791	8-729-900-36	TRANSISTOR	DTC124E	S	
CN716 *	1-563-474-11	HOUSING, CONNE	CTOR 6P			0792	8-729-900-36	TRANSISTOR	DTC124E	S	
						Q801	8-729-900-63	TRANSISTOR	DTA124E	S	
		< DIODE >				0802	8-729-900-74	TRANSISTOR	DTC143T	S	
						Q803	8-729-119-78	TRANSISTOR	2SC2785	-HFE	
D701	8-719-911-19	DIODE 188119									
D702	8-719-911-19	DIODE 188119						< RESISTOR >			
D706	8-719-911-19	DIODE 188119									
D707	8-719-911-19	DIODE 188119				R701	1-249-433-11	CARBON	22K	5%	1/4W
						R702	1-249-417-11	CARBON	1 K	5%	1/4W
D801	8-719-911-19	DIODE 188119				R703	1-249-433-11	CARBON	22 K	5%	1/4W
D802	8-719-911-19	DIODE 188119				R704	1-249-397-11	CARBON	22	5%	1/4W
D804	8-719-911-19	DIODE 188119				R705	1-247-806-11	CARBON	91	5%	1/4W
D805	8-719-911-19	DIODE 188119									
						R711	1-249-428-11		8. 2 K	5%	1/4W
		< 10 >				R712	1-247-856-00	CARBON	11K	5%	1/4W
						R713	1-249-441-11	CARBON	100K		1/4W
IC701	8-752-033-14	IC CXA1081Q				R714	1-249-425-11		4. 7K		1/4W
1C702	8-752-037-48		7			R715	1-249-441-11	CARBON	100K	5%	1/4W
10703	8-752-328-46										
10704	8-752-323-63	IC CXK5816M-	12L			R716	1-247-886-11		200K		1/4W
						R717	1-249-422-11		2. 7K		1/4W
1C706	8-759-945-58					R718	1-247-903-00		1M	5%	1/4W
10707	8-759-148-30					R719	1-249-417-11		1 K	5%	1/4W
1C708	8-759-501-65					R-720	1-247-883-00	CARBON	150K	5%	1/4W
10709	8-759-501-65	IC BA6294				0704		0.1.00.01	477	F0/	4 / 404
		10 0005001	000			R721	1-249-437-11		47K	5%	1/4W
10801	8-752-814-10		970			R722	1-249-429-11		10K	5% 5%	1/4W
10802	8-759-945-58					R723	1-249-441-11		100K		1/4W
10804	8-759-971-11	IC PST529D				R724 R725	1-249-438-11		56K 180K	5% 5%	1/4W 1/4W
						H / Z 3	1-247-880-00	CARBON	1004	376	1/411
		< COIL >				0706	1-249-437-11	CADDON	47 K	5%	1/4W
1701	1 410 215 11	INDUCTOR 1				R726 R727	1-249-437-11		47K 100K		1/4W
L701		INDUCTOR 1uH	, U			R728	1-249-441-11		9. 1K		1/4W 1/4W
L702		INDUCTOR 220u	111			R729	1-247-894-11		9. IK 430K		1/4W
L703			.u			R730	1-249-441-11		100K		1/4W
L704		COIL, LINE FIL				11100	1 443-441-11	AUDON	1001	U/U	1/ 711
L705	1-424-090-11	OUIL, LINE FIL	.ILN			R731	1-215-457-00	METAI	33K	1%	1/6W
						R732	1-215-457-00		33K	1%	1/6W
						R733	1-247-895-00		470K		1/4W
						R734	1-249-417-11		1K	5%	1/4W
						R735	1-249-417-11		1 K	5%	1/4W
						11100	1-243-411-11	VUIDAIL	I N	J/#	(/ 411

CD MAIN

CD MOTOR

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description	Remari
R736	1-249-429-11		10K	5%	1/4W	R801	1-249-435-11	CARBON 33K	5% 1/4W
R743	1-215-438-00	METAL	5. 1K	1%	1/6W	R802	1-249-435-11	CARBON 33K	5% 1/4W
R744	1-215-461-00		47K	1%	1/6W	R803	1-249-435-11	CARBON 33K	5% 1/4W
R745	1-215-453-00	METAL	22K	1%	1/6W	R805	1-249-437-11	CARBON 47K	5% 1/4W
R746	1-215-461-00		47K	1%	1/6W	R806	1-249-437-11	CARBON 47K	5% 1/4W
R747	1-249-431-11	CARBON	15K	5%	1/4W	R807	1-249-441-11	CARBON 100K	5% 1/4W
R748	1-249-422-11		2.7K	5%	1/4W	R808	1-249-441-11	CARBON 100K	5% 1/4W
R749	1-247-834-11		1. 3K	5%	1/4W	R809	1-249-437-11	CARBON 47K	5% 1/4W
R750	1-249-414-11		560	5%	1/4W	R810	1-249-405-11	CARBON 100	5% 1/4W
R751	1-247-903-00		1M	5%	1/4W	R811	1-249-405-11	CARBON 100	5% 1/4W
R752	1-249-430-11	CARRON	12K	5%	1/4W	R821	1-249-441-11	CARBON 100K	5% 1/4W
R753	1-215-438-00		5. 1K		1/6W	R851	1-215-457-00		1% 1/6W
R754	1-215-461-00		47K	1%	1/6W	R852	1-247-893-11		5% 1/4W
R755	1-215-453-00		22K	1%	1/6W	R853	1-249-441-11		
R756	1-215-461-00		47K	1%	1/6W	R854	1-247-895-00		
K130	1-215-401-00	MLIAL	411	170	17 011	R855	1-249-441-11		
R757	1-247-887-00	CARBON	220K	5%	1/4W				
R758	1-249-422-11	CARBON	2.7K	5%	1/4W			< VARIABLE RESISTOR	>
R759	1-247-834-11		1. 3K	5%	1/4W				
R760	1-249-414-11	CARBON	560	5%	1/4W	RV701	1-230-497-11	RES, ADJ, CARBON 20	K
R761	1-247-903-00	CARBON	1 M	5%	1/4W	RV702	1-230-498-11	RES, ADJ. CARBON 50	K
						RV703	1-228-991-00	RES, ADJ, METAL 2.2	K
R762	1-249-422-11	CARBON	2.7K	5%	1/4W	RV704	1-230-497-11	RES, ADJ, CARBON 20	K
R763	1-249-422-11		2.7K		1/4W	RV705	1-230-497-11	RES, ADJ, CARBON 20	K
R764	1-247-887-00		220K		1/4W				
R765	1-249-395-11		15	5%	1/4W			< SWITCH >	
R766	1-249-395-11		15	5%	1/4W		4 534 634 44	OWLTON LEAS (ODEN	(01 001)
R768	1-249-405-11	CARBON	100	5%	1/4W	\$801	1-5/1-2/4-11	SWITCH, LEAF (OPEN/	CLUSE)
R770	1-215-453-00		22K	1%	1/6W			< CONNECTOR >	
R771	1-215-453-00		22K	1%	1/6W				
R772	1-215-453-00		22K	1%	1/6W	W801	* 1-566-973-1	I PIN, CONNECTOR (PC	BOARD) 8P
R773	1-215-453-00		22K	1%	1/6W	W802	* 1-568-454-1	PIN, CONNECTOR (PC	BOARD) 9P
nrrv	1 210 400 00	me me	221	.,•	,,	W803		1 PIN, CONNECTOR (PC	•
R774	1-215-429-00	METAL	2. 2K	1%	1/6W				
R775	1-215-457-00	METAL	33K	1%	1/6W			< VIBRATOR >	
R776	1-215-457-00	METAL	33K	1%	1/6W				
R777	1-215-457-00	METAL .	33K	1%	1/6W	X801	1-567-094-0	O VIBRATOR, CERAMIC	(3. 58MHz)
R778	1-215-433-00	METAL	3.3K	1%	1/6W	XF701	1_567_009_1	1 VIBRATOR, CRYSTAL	(16 0344MH+)
R779	1-247-868-11	CARRON	36K	5%	1/4W	VE 101	1-301-300-1	I TIDENTIUM, UNITAL	(10. 30448112)
R780	1-249-435-11		33K	5%	1/4W	*****	**********	**********	********
R781	1-247-876-11		75K	5%	1/4W				
R782	1-249-435-1		33K	5%	1/4W		* 1-638-974-1	1 CD MOTOR BOARD	
R783	1-249-417-1		1 K	5%	1/4W		* 1 000 011 1	******	
	4 646 466 4		100	E#/	1 / 414			< CONNECTOR >	
R784	1-249-429-1		10K	5%	1/4W			V COUNTERLING >	
R785	1-249-410-1		270	5%	1/4W	01710	# 1_ECC 000 1	1 DIN CONNECTOR (DO	BUNBUI ED
R786	1-249-425-1		4. 7K		1/4W	CN/13	+ 1-000-UU3-I	1 PIN. CONNECTOR (PC	DUARU) OF
	1-212-861-1		15	5%	1/4W F			/ HIMDED >	
R789	1-249-433-1	I CAKBON	22 K	5%	1/4W			< JUMPER >	
R791	1-247-838-0	CARBON	2 K	5%	1/4W	1		1 PIN (UX-50), GROUN	
R792	1-249-437-1	1 CARBON	47K	5%	1/4W	JW861	* 3-368-054-0	1 PIN (UX-50). GROUN	D
R793	1-249-429-1	1 CARBON	10K	5%	1/4W				
11100									

Note:

The components identified by mark A or dotted line with mark A are critical for safety.

Replace only with part number specified.

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

SW-A

SW-B

TUNER

Ref. No.	Part No.	Description		emark	Ref. No.	Part No.	Descriptio		Remark
*	1-638-966-11	POWER BOARD					< RESISTOR		
	3-701-947-15		FUSE (Australian)		R122 R222	1-249-404-00 1-249-404-00		82 5% 82 5%	1/4W 1/4W
		< CAPACITOR >					< TRANSFOR	RMER >	
C902 C903 C904	1-101-005-00 1-101-005-00 1-101-005-00	CERAMIC	22000PF 22000PF 22000PF	50 V 50 V 50 V	_			ER, POWER (US,Ca ER, POWER (Austr	. *
C905	1-101-005-00		22000PF	50 V	*****	******	*******	*******	*******
		< CONNECTOR >				* 1-638-969-11	SW-A BOAR[
CN904 *	1-566-001-21	PIN. CONNECTOR	(PC BOARD) 4P				< CONNECTO		
		< INLET >			CN401	* 1-565-386-11	HOLDER CA	ARIF 5P	
			C IN) (US, Canadian) C IN) (Australian)			* 1-563-473-11			
		< CONNECTOR >					< SWITCH :	>	
CNP903 *	1-506-986-11	PIN, CONNECTOR PIN, CONNECTOR	(PC BOARD) 4P		\$401 \$402		•	EAF (MD POWER) EAF (HIGH SPEED)	
CNP905 *	1-506-998-11	PIN, CONNECTOR	(PC BOARD) 2P		*****	*******	*******	*******	*****
		< DIODE >				± 1 620 070 11	CW D DOAD	n	
D901 Æ •	8-719-902-17	DIODE U15G				* 1-638-970-11	*******		
D903 Æ ⋅	8-719-902-17 8-719-902-17	DIODE U15G					< HOLDER	>	
U9U4 AL.	8-719-902-17				CN402	* 1-565-385-11	HOLDER, C	ABLE 4P	
		< FUSE >					< SWITCH	>	
			i (2.5A 250V) (Austr 25V) (US,Canadian)	alian)	\$403 \$404	1-571-890-11 1-571-890-11		EAF (MD POWER)	
		< HOLDER >			3404	1 011 000 11	01111011, E	chi (inu)	
FH901	1-533-217-31	HOLDER, FUSE			*****	**********	********	******	******
FH902		HOLDER, FUSE				* A-3261-771-A		RD, COMPLETE *****	
		< JACK >				2_228_505_01	וווח אווח	ING CAPACITOR	
J302	1-566-891-11	JACK (PHONES)				3-369-039-01 7-621-770-87	KNOB (FUN	CTION)	
		< COIL >					< CAPACIT	OR S	
L901	1-410-324-1	I INDUCTOR 4.	7uH						
L902	1-410-324-1		7 u H		C1	1-162-286-3		220PF	10% 50V
L903	1-410-324-1	1 INDUCTOR 4.	. 7uH		C3	1-164-096-1		0. 01uF	50 V 20% 50 V
		< LINE FILTER	>		C 4 C 5	1-124-907-1		10uF 0.01uF	20% 50V 50V
		V FINE FILIER	,		C 6	1-164-039-1		3PF	0.25PF 50V
LF901 <u>A</u> .∙	1-424-150-1	1 TRANSFORMER,	LINE FILTER		No	ite:		ote:	entifiés par

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

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

TUNER

Ref. No.	Part No.	Description		Remark		Ref. No.	Part No.	Description			Remark 	
C7	1-164-028-11	CERAMIC	24PF	5%	50V			< RESISTOR >				
C8	1-102-960-00		24PF	5%	50V							
C9	1-102-945-00	CERAMIC	8. OPF	+-0.5PF	50V	R1	1-249-413-11	CARBON	470	5%	1/4W	
C10	1-164-012-11	CERAMIC	3PF	0.25PF	50V	R3	1-249-421-11	CARBON	2. 2K	5%	1/4W	
C11	1-164-096-11	CERAMIC	0.01uF		50V	R5	1-249-423-11	CARBON	3.3K	5%	1/4W	
						R6	1-249-441-11	CARBON	100K	5%	1/4W	
C12	1-162-282-31	CERAMIC	100PF	10%	50V	R7	1-249-415-11	CARBON	680	5%	1/4W	
C15	1-124-927-11	ELECT	4. 7uF	20%	100V							
C16	1-124-903-11	ELECT	1uF	20%	50V	R9	1-249-441-11	CARBON	100K	5%	1/4W	
C17	1-124-126-00	ELECT	47uF	20%	10V	R10	1-249-407-11	CARBON	150	5%	1/4W	
C18	1-124-443-00	ELECT	100uF	20%	107	R11	1-249-427-11	CARBON	6.8K	5%	1/4W	
						R12	1-249-427-11	CARBON	6.8K	5%	1/4W	
C19	1-164-096-11	CERAMIC	0.01uF		50 V	R13	1-249-405-11	CARBON	100	5%	1/4W	
C20	1-124-903-11	ELECT	1uF	20%	50 V							
C21	1-124-925-11	ELECT	2. 2uF	20%	100V	R14	1-249-429-11	CARBON	10K	5%	1/4W	
C22	1-124-443-00	ELECT	100uF	20%	107	R15	1-247-887-00	CARBON	220K	5%	1/4W	
C23	1-124-902-00	ELECT	0. 47uF	20%	50V	R16	1-247-887-00	CARBON	220K	5%	1/4W	
						R17	1-249-421-11	CARBON	2. 2K	5%	1/4W	
C24	1-124-927-11	ELECT	4. 7uF	20%	100V	R21	1-249-411-11	CARBON	330	5%	1/4W	
C25	1-124-463-00	ELECT	0. 1uF	20%	50V							
C27	1-161-053-00	CERAMIC	0.015uF	10%	50V			< VARIABLE R	ESISTOR	>		
C28	1-161-053-00	CERAMIC	0.015uF	10%	50V							
C31	1-162-282-31	CERAMIC	100PF	10%	50V	RV1	1-238-601-11	RES, ADJ, CA	RBON 22K			
C32	1-162-282-31	CERAMIC	100PF	10%	50V			< SWITCH >				
C33	1-162-193-31		3. 3PF	10%	50V							
C34	1-162-282-31		100PF	10%	50V	\$1	1-570-729-11	SWITCH, LEVE	R SLIDE	(BAND)		
C35	1-162-282-31		100PF	10%	50V							
00,0	1 102 202 01	02			•••			< TRANSFORME	R >			
		< FILTER >				.	4 404 055 00	TRINGFARUER				
		511.TED 050111	•			T1	1-404-355-00	TRANSFORMER,	11			
CF1		FILTER, CERAMI	С									
CF2	1-527-870-00		•			******	**********	******	******	*****	******	****
CF3	1-567-166-00	FILTER, CERAMI	C					MISCELLANEOU	10			
		< CONNECTOR >						******				
CNJ21 ×	k 1-568-271-11	SOCKET, CONNEC	CTOR 5P			71 117 ×	1-452-558-11 1-639-064-01 *		ATTERV (011		
		< VARIABLE CAP	ACITORS			ANT1		ANTENNA, TEL				
		V TANTABLE ON	AUTION				* 1-562-650-11			,		
CV1	1-151-624-11	CAP. VARIABLE					* 1-563-470-11					
		< FILTER >				SP801	1-544-154-11	SPEAKER				
						SP802	1-544-154-11	SPEAKER				
FL1	1-236-022-11	FILTER, BAND F	ASS									
		< 10 >										
101	8-752-050-20) IC CXA1238S										
		< COIL >										
L1	1_420_055.00	CAIL, FM ANT										
L1 L2		CAIL, FM ANI 1 COIL, FM OSCII	LIATOR									
LZ L3		1 ANTENNA, FERR	_	w)								
L4	1-406-040-00											
. 7	1 400 040 00	(000)				l						

Ref. No. Part No. Description

Remark

- ⚠ · 1-555-074-00 CORD, POWER (Australian)
- ⚠: 1-557-287-11 CORD. POWER (Canadian)
- A · 1-559-047-11 CORD, POWER (US)
- * 3-369-785-01 CUSHION (L)
- * 3-369-786-01 CUSHION (R)
- * 3-369-781-01 INDIVIDUAL CARTON (US, Canadian)
- * 3-372-533-01 INDIVIDUAL CARTON (Australian)

3-753-597-21 MANUAL, INSTRUCTION (ENGLISH)

3-753-597-31 MANUAL, INSTRUCTION (FRENCH) (Canadian)

HARDWARE LIST

#1	7-685-647-79 SCREW +BVTP 3X10 TYPE2 N-S
#2	7-685-646-79 SCREW +BVTP 3X8 TYPE2 N-S
#3	7-685-651-79 SCREW +BVTP 3X20 TYPE2
#4	7-685-154-19 SCREW +P 3X35 TYPE2 NON-SLIT
#5	7-621-772-10 SCREW +B 2X4
#6	7-685-104-19 SCREW +P 2X6 TYPE2 NON-SLIT
#7	7-685-105-19 TPG +P 2X8, TYPE 2, NON-SLIT
#8	7-685-649-79 SCREW +BVTP 3X14 TYPE2 N-S
#9	7-685-870-01 SCREW +BVTT 3X5 (S)
#10	7-621-770-87 SCREW +P 2.6X5
#11	7-682-548-09 SCREW +B 3X8
#12	7-621-255-15 SCREW +P 2X3
#13	7-682-548-04 SCREW +BVTT 3X8 (S)
#14	7-685-132-19 SCREW +P 2.6X5 TYPE2 NON-SLIT
#15	7-685-133-19 SCREW +P 2.6X6 TYPE2
#16	7-685-144-19 SCREW +P 3X5 TYPE2 NON-SLIT

Note

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

Note:

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

<u>MEMO</u>

CFD-100/W100

SERVICE MANUAL

US Model Canadian Model

SUPPLEMENT-1

Australian Model

File this supplement with the service manual.

Subject:

- 1. Schematic diagram and Printed wiring board of CD section are modified.
- 2. Part No. changed.
- 3. Electrical parts list (CD section) are added.

FORMER

Features

CD player

- Intro scan function for playing the first ten seconds of all the selections.
- Repeat function for playing the entire disc or a desired selection.
- Repeat shuffle function for playing selections repeatedly in random order.
- Program play function for playing the selections in the desired order (up to 16 selections).

NEW

Features

CD player

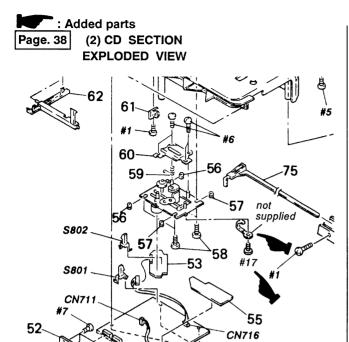
- 8-times over-sampling and digital filter
 Signal process frequency of 8 times the reference frequency means CD playback with less distortion.
- Dual D/A conversion system
 High-fidelity CD playback with less phase shift is accomplished by the dual converter which works for the left and right channels independently.
- Intro scan function for playing the first ten seconds of all the selections.
- Repeat function for playing the entire disc or a desired selection.
- Repeat shuffle function for playing selections repeatedly in random order.
- Program play function for playing the selections in the desired order (up to 34 selections).

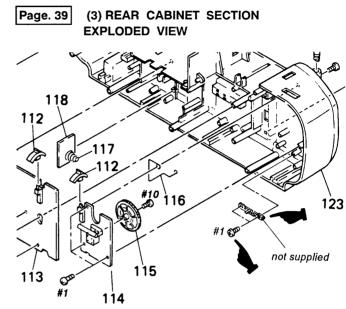


- Some mechanical and electrical parts have been changed in its part numbers.
- The different parts list are as follows.

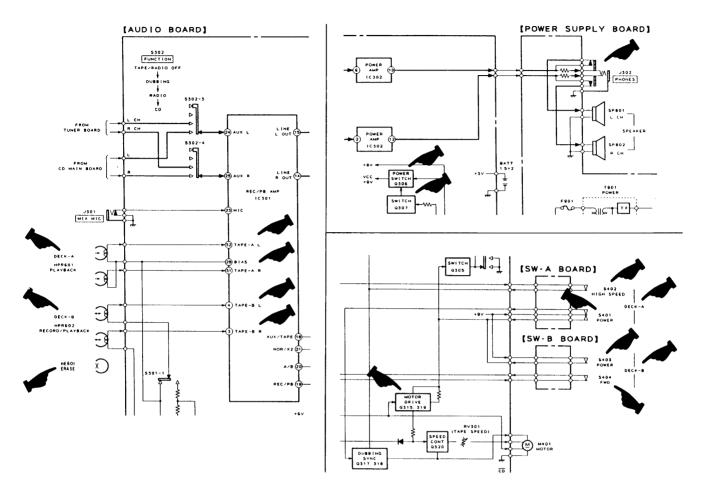
Page	Ref. No.		Former		New
		Part No.	Description	Part No.	<u>Description</u>
0.7	4	A-3208-841-A	PANEL ASSY, FRONT	A-3253-357-A	PANEL ASSY, FRONT
37	6	A-3208-728-A	CABINET (FRONT) SUB ASSY	X-3364-228-1	GRILL ASSY, F/CABINET & SPEAKER
	10	3-703-150-11	STOPPER, WIRING		Delete
	52	*1-638-972-11	CD CONTROL BOARD	*1-642-547-11	CD CONTROL BOARD
	53	*1-638-974-11	CD MOTOR BOARD	*1-642-548-11	CD MOTOR BOARD
38	54	*A-3275-099-A	CD MAIN BOARD, COMPLETE	*A-3275-338-A	CD MAIN BOARD, COMPLETE
	S801	1-571-274-11	SWITCH, LEAF	1-571-274-11	SWITCH, LEAF (OPEN/CLOSE)
	S802	1-571-274-11	SWITCH, LEAF	1-571-274-11	SWITCH, LEAF (LIMIT)
	109	3-701-947-15	LABEL (T2.5A) FUSE (Australian)	4-949-520-18	LABEL (T2. 5AL) FUSE (Australian)
	113	*A-3261-770-A	AUDIO BOARD, COMPLETE	A-3262-738-A	AUDIO BOARD, COMPLETE
39	117	*1-639-064-01	SPRING (-) BATTERY COIL	*3-369-064-01	SPRING (-) BATTERY COIL
39	118	*1-639-725-11	BATTERY TERMINAL BOARD	*1-638-967-11	BATTERY TERMINAL BOARD
	121	A-3208-737-A	HANDLE ASSY	X-3364-229-1	HANDLE ASSY
	F901	1-532-745-11	FUSE (3.15A 125V) (US, Canadian)	1-576-107-11	FUSE (3.15A 250V) (US, Canadian)
40	254	4-928-996-01	LEVER, SW	4-928-996-11	LEVER, SW
	307	4-921-195-01	LEVER (AC), REC	4-921-195-01	LEVER (AC) REC, (DECK A)
	314	X-4920-345-1	BASE (S) ASSY, HEAD	X-4918-577-1	HEAD (BASE) (S) ASSY
	324	1-543-525-11	HEAD, MAGNETIC (ERASE)		Delete
	HE601			1-543-876-11	HEAD (ERASE) (DECK B)
41	326	4-928-960-02	CLAW, SAFETY	4-928-960-02	CLAW, SAFETY (DECK B)
	327	4-934-511-01	LEVER (S), REC	4-934-511-01	LEVER (S), REC (DECK B)
	CNJ301		•	1-563-472-11	HOUSING, CONNECTOR 4P (DECK A)
	CNJ302	*1-563-473-21	HOUSING, CONNECTOR 5P	*1-563-473-21	HOUSING, CONNECTOR 5P (DECK B)
	HRP601	1-543-714-11	HEAD, MAGNETIC (REC/PB)	1-543-714-11	HEAD, MAGNETIC (PB)
	401	4-917-565-01	SHAFT, SLED	4-917-565-01	SHAFT (K) , SLED
42	406	X-2625-133-2	CHASSIS ASSY, TT	X-2625-133-1	CHASSIS (MB), TT
42			(WITH M702 SPINDLE)		(WITH M702 SPINDLE)
	M701	X-2625-132-1	GEAR ASSY, MOTOR (SLED)	X-2625-132-1	GEAR ASSY (MB), MOTOR (SLED)
43		*A-3261-770-A	AUDIO BOARD, COMPLETE	A-3262-738-A	AUDIO BOARD, COMPLETE
	C338			1-161-494-00	CERAMIC 0.022 μ F 25V
	CNP307	*1-506-988-11	PIN, CONNECTOR (PC BOARD) 6P	*1-568-272-11	SOCKET, CONNECTOR 6P
44	L304			1-410-324-11	INDUCTOR 4.7 μ H
	L305			1-410-316-11	INDUCTOR 1 μ H
	Q308	8-729-177-32	TRANSISTOR 2SD773-34	8-729-140-98	TRANSISTOR 2SD773-34

Page	Ref. No.		Former	New				
		Part No.	Description	Part No.	Description			
	R120	1-249-401-11	CARBON 47 5% 1/4W	1-249-402-11	CARBON 56 5% 1/4W			
	R220	1-249-401-11	CARBON 47 5% 1/4W	1-249-402-11	CARBON 56 5% 1/4W			
	R336	1-249-424-11	CARBON 3.9K 5% 1/4W		Delete			
45	R346			1-247-810-11	CARBON 130 5% 1/4W			
	R399			1-247-844-11	CARBON 3.6K 5% 1/4W			
	RV301	1-241-036-21	RES. ADJ CARBON 1K	1-230-494-11	RES. ADJ CARBON 1K			
		*1-639-725-11	BATTERY TERMINAL BOARD	*1-638-967-11	BATTERY TERMINAL BOARD			
		*1-638-972-11	CD CONTROL BOARD	*1-642-547-11	CD CONTROL BOARD			
	LCD1	1-808-930-11	DISPLAY PANEL, LIQUID CRYSTAL		Delete			
46	LCD801			1-808-930-11	DISPLAY PANEL, LIQUID CRYSTAL			
		*A-3275-099-A	CD MAIN BOARD, COMPLETE	*A-3275-338-A	CD MAIN BOARD, COMPLETE			
		*1-638-974-11	CD MOTOR BOARD	*1-642-548-11	CD MOTOR BOARD			
	J₩860	*3-368-054-01	PIN (UX-50), GROUND		Delete			
	J₩880			*3-368-054-01	PIN (UX-50), GROUND			
48	JW861	*3-368-054-01	PIN (UX-50), GROUND		Delete			
	JW881			*3-368-054-01	PIN (UX-50), GROUND			
	S802		·	1-571-274-11	SWITCH, LEAF (LIMIT)			
		3-701-947-15	LABEL (T2.5A), FUSE (Australian)	4-949-520-18	LEBEL (T2.5AL), FUSE (Australian)			
	CNJ303	*1-563-473-11	HOUSING, CONNECTOR 5P		Delete			
	CNJ902	1-526-818-11 1	INLET, AC (~AC IN) (US, Canadian)	1-526-818-11 1	INLET, AC (~AC IN) (Canadian)			
	CNJ902	1-526-818-11 1	INLET, AC (~AC IN)(US, Canadian)	<u> </u>	INLET, AC (\sim AC IN) (US)			
49	F901	1-532-745-11	FUSE (3.15A 125V) (US, Canadian)	<u> 1</u> -576-107-11	FUSE (3.15A 250V) (US, Canadian)			
	S401	1-571-330-21	SWITCH, LEAF (MD POWER)	1-571-890-11	SWITCH, LEAF (HIGH SPEED) (DECK A)			
	S402	1-571-890-11	SWITCH, LEAF (HIGH SPEED)	1-571-330-21	SWITCH, LEAF (MD POWER) (DECK A)			
	S403	1-571-890-11	SWITCH, LEAF (MD POWER)		SWITCH, LEAF (FWD) (DECK B)			
	S404	1-571-890-11	SWITCH, LEAF (FWD)	1-571-890-11	SWITCH, LEAF (MD POWER) (DECK B)			
50	117	*1-639-064-01	SPRING (-) BATTERY COIL	*3-369-064-01	SPRING (-) BATTERY COIL			
		1-559-047-11	CORD, POWER (US)	1-690-952-21	CORD, POWER (US)			
		*3-369-781-01	INDIVIDUAL CARTON (US, Canadian)	*3-379-827-01	INDIVIDUAL CARTON (US, Canadian)			
		*3-372-533-01	INDIVIDUAL CARTON (Australian)	*3-382-943-01	INDIVIDUAL CARTON (Australian)			
F.4		3-753-597-21	MANUAL, INSTRUCTION (ENGLISH)	3-755-080-21	MANUAL, INSTRUCTION (ENGLISH)			
51		3-753-597-31	MANUAL, INSTRUCTION	3-755-080-31	MANUAL, INSTRUCTION			
			(FRENCH) (Canadian)		(FRENCH) (Canadian)			
	#9	7-685-870-01	SCREW +BVTT3X5 (S)	7-685-871-01	SCREW +BVTT3X6 (S)			
	#17			7-621-772-38	SCREW +B2X6			

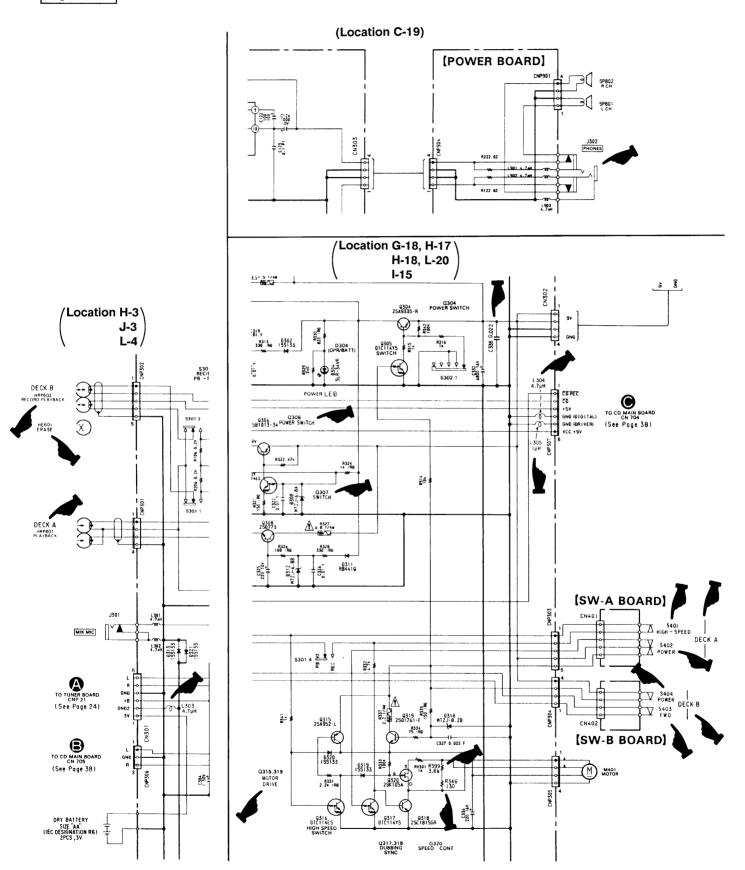


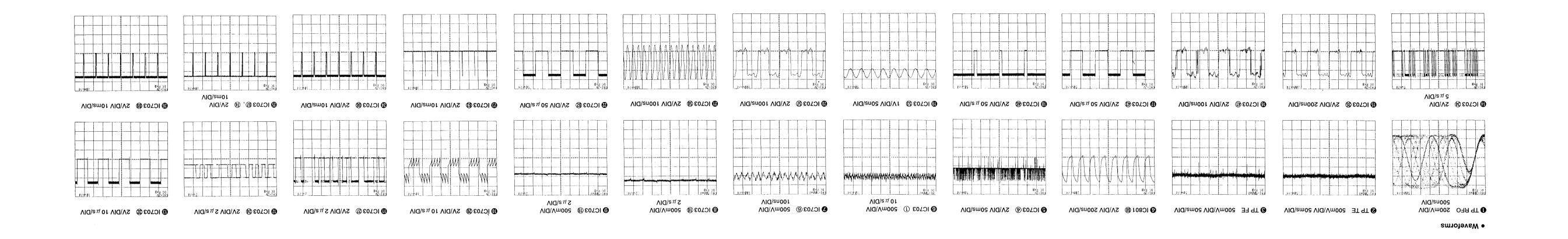


Page. 17, 18 6-3. TAPE, POWER SUPPLY SECTION BLOCK DIAGRAM



Page. 27, 29 6-6. TAPE, POWER SUPPLY SECTION SCHEMATIC DIAGRAM





SECTION 5

5-3. CD SECTION (NEW TYPE)

1. Perform adjustment in service mode.

Perform adjustments in the order given.

and with no catching or abnormal noises.

FOP moves to the outer circumference

After adjustment, be sure to release service mode.

3. Use the disc (YEDS-18, Part No. 3-702-101-01) only when so

2. Press), keys and confirm that the FOP moves smoothly

4. Confirm that FOP moving operations stops. If it does not, press

from the innermost to outermost circumference and back smoothly

Notes on Adjustment

indicated.

Before Adjustment

there are any problems.

Sled Motor Check

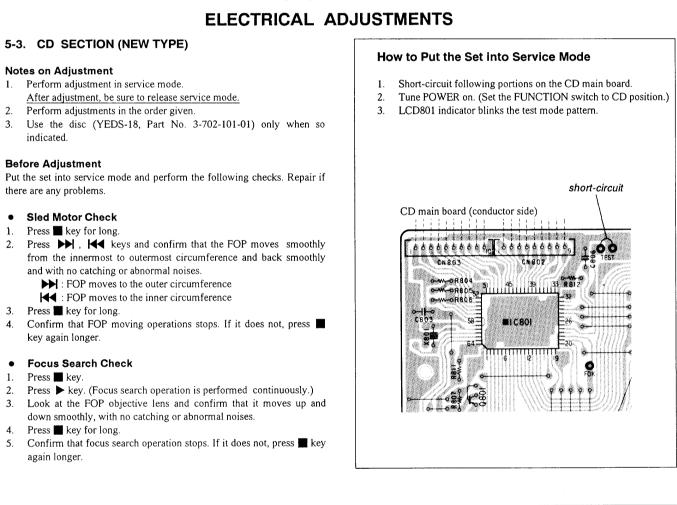
Press key for long.

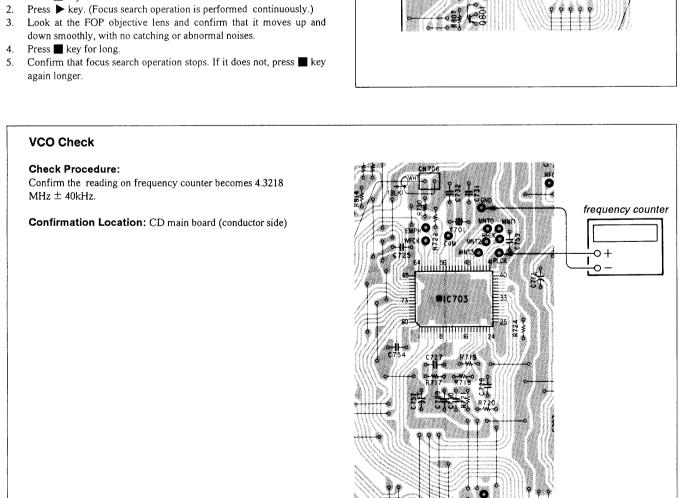
Press key for long.

key again longer.

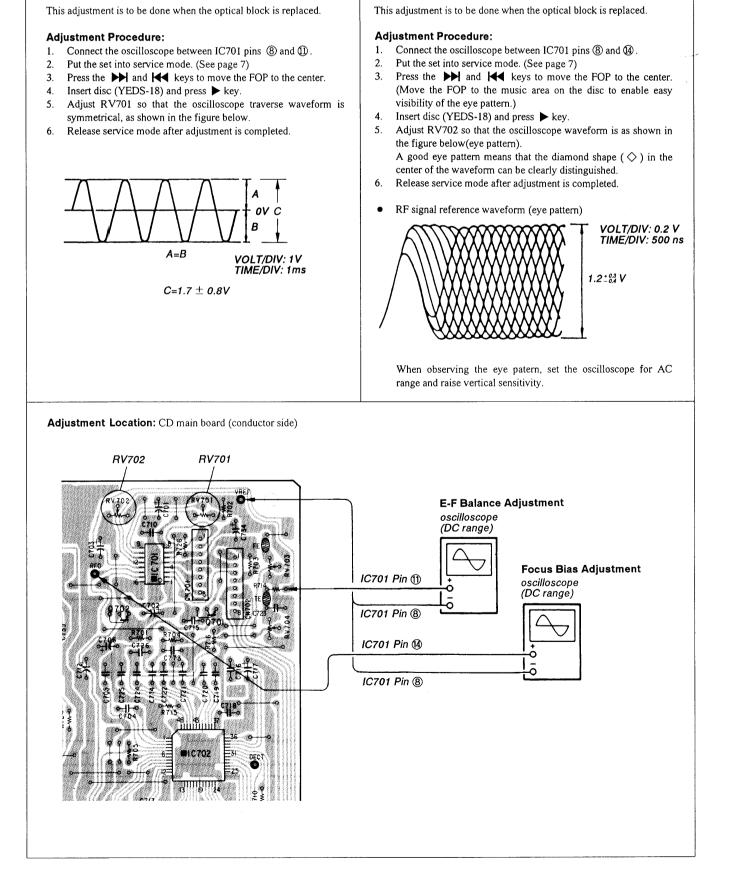
Press 🔣 key.

• Focus Search Check





-7-



-8-

Focus Bias Adjustment

REFERENCE Focus/Tracking Gain Adjustment 5. Connect the oscilloscope between IC701 pins (8) and (1). The following is a simple adjustment method. 6. Adjust RV704 so that the waveform is as shown in the figure A frequency response analyzer is necessary in order to perform this - Simple Adjustment below. (tracking gain adjustment) adjustment exactly. However, this gain has a margin, so even if it is slightly off, there is no Note: Since exact adjustment cannot be performed, remember the TIME/DIV: 2 ms problem. Therefore, do not perform this adjustment. positions of the controls before performing the adjustment. If Focus/tracking gain determines the pick-up follow-up (vertical and the positions after the simple adjustment are only a little horizontal) relative to mechanical noise and mechanical shock when different, return the controls to the original position. the 2-axis device operate. However, as these reciprocate, the adjustment is at the point where Procedure: both are satisfied. Keep the set horizontal. • When gain is raised, the noise when the 2-axis device operates / If the set is not horizontal, this adjustment cannot be \ performed due to the gravity against the 2-axis device. increases. When gain is lowered, it is more susceptible to mechanical shock Insert disc (YEDS-18) and press ▶ PLAY button. Incorrect Examples (fundamental wave appears) and skipping occurs more easily. Connect the oscilloscope between IC701 pins (8) and (3). 4. Adjustment RV703 so that the waveform is as shown in the figure • When gain adjustment is off, the symptoms below appear. low track gain below. (focus gain adjustment) TIME/DIV: 2 ms Focus Tracking VOLT/DIV: 100 mV TIME/DIV: 2 ms Symptoms • The time until music starts becomes longer for STOP → ▶ PLAY or automatic selection (◄ , ▶) low or high buttons pressed). (Normally --- o v takes about 2 seconds.) high track gain (higher fundamental wave than for low gain) Music does not start and disc continues to rotate for STOP → PLAY or low TIME/DIV: 2 mS automatic selection (• Incorrent Examples (DC level changes more than on adjusted buttons pressed). waveform) Sound is interrupted during low focus gain PLAY. Or time counter low display stops progressing. VOLT/DIV: 100 mV TIME/DIV: 2 ms -- o v More noise during 2-axis high device operation. M. LANGE WING CO. ---- 250 mV Adjustment Location: CD Main Board (conductor side) high focus gain VOLT/DIV: 100 mV TIME/DIV: 2 ms oscilloscope (DC range) Remove the solder bridge while – 100 mV adjusting the tracking gain. (After adjustment make the -- 75 mV IC701 pin 11) solder bridge.) IC701 pin 🔞 IC701 pin ® Remove the solder bridge while adjusting the focus gain. (After adjustment make the solder bridge.)

E-F Balance Adjustment

SECTION 6 DIAGRAMS 6-7. CD SECTION SCHEMATIC DIAGRAM (NEW TYPE) 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 @ IC703 @ 2V/DIV 10ms/DIV [CD CONTROL BOARD] COMO COM2 COM3 SEG0 SEG1 SEG5 SEG5 SEG5 SEG6 SEG7 SEG6 SEG11 SEG11 SEG11 SEG11 SEG11 SEG11 SEG11 LIQUIÐ CRYSTAL ÐISPLAY PANEL REMAIN/ENTER √^{5.1}【CD MAIN BOARD】 @ IC703 6 2V /DIV10ms/DIV S808
PLAY MODE C801 33≠ 16V IC802 C806 0.01# Y IC801 LCÐ ÐRIVER MICRO COMPUTER IC801 CXP5084H-636Q C804 0.22# MPF O (PAUSE)
O (FF)
O (FR)
O (STOP)
B (PLAY) R811 100k 26 + 55 + 55 + 55 24 23 22 10703 19 2V/DIV 10ms/DIV -OWFCK ∵OEMPH R722 100× TRACKING-GAIN W 0.00224 PT IC703 DIGITAL SIGNAL PROCESSER OPTICAL PICK-UP **2** BLOCK XIAI

VSS (E)

APTR (B)

MNTO (D)

MNT1 (D)

MNT1 (D)

MNT1 (D)

MNT2 (D)

MNT2 (D)

MNT3 (D)

MNT4 (PB11)

MNT5 (D)

MNT5 (D)

MNT6 (PB11)

MNT7 (D)

MNT8 (PB11)

MNT9 (PB (KSS-210BAN) Location IC702 R719 ₹ 0.047# PT C710 0.47≱ MPF IC701 D301
D302
D303
D304
D305
D307
D308
D311
D312
D313
D314
D315
D318
D319
D320
D321
D701
D702
D704
D705
D901
D902
D903
D904 H-9 D-13 H-9 A-11 E-14 D-15 E-14 E-14 B-10 B-11 H-15 H-15 H-15 H-15 H-15 G-2 J-6 I-3 I-3 C-23 C-23 C-23 C-23 CĐ SYSTEM SERVO CĐ RF AMP E-F BALANCE 9 VREF R721 100k R720 0.068# PT 0703 DTC114TS MUTE SWITCH IC301 IC302 IC701 IC702 IC703 IC704 IC705 C733 J 0.01# Y M701 M 0.1 x ₹ 10k 8711 510k R732 2.7k +I← † ₩ † ₩ 45214上 0704 ĐTA114YS IC706 C772 0.012# PT R761 33k IC801 IC802 F-2 G-2 Note on Schematic Diagram: All capacitors are in μF unless otherwise noted. pF: μμF 5802 LIMIT R763 10k LCH OUT
A. GND
RCH OUT

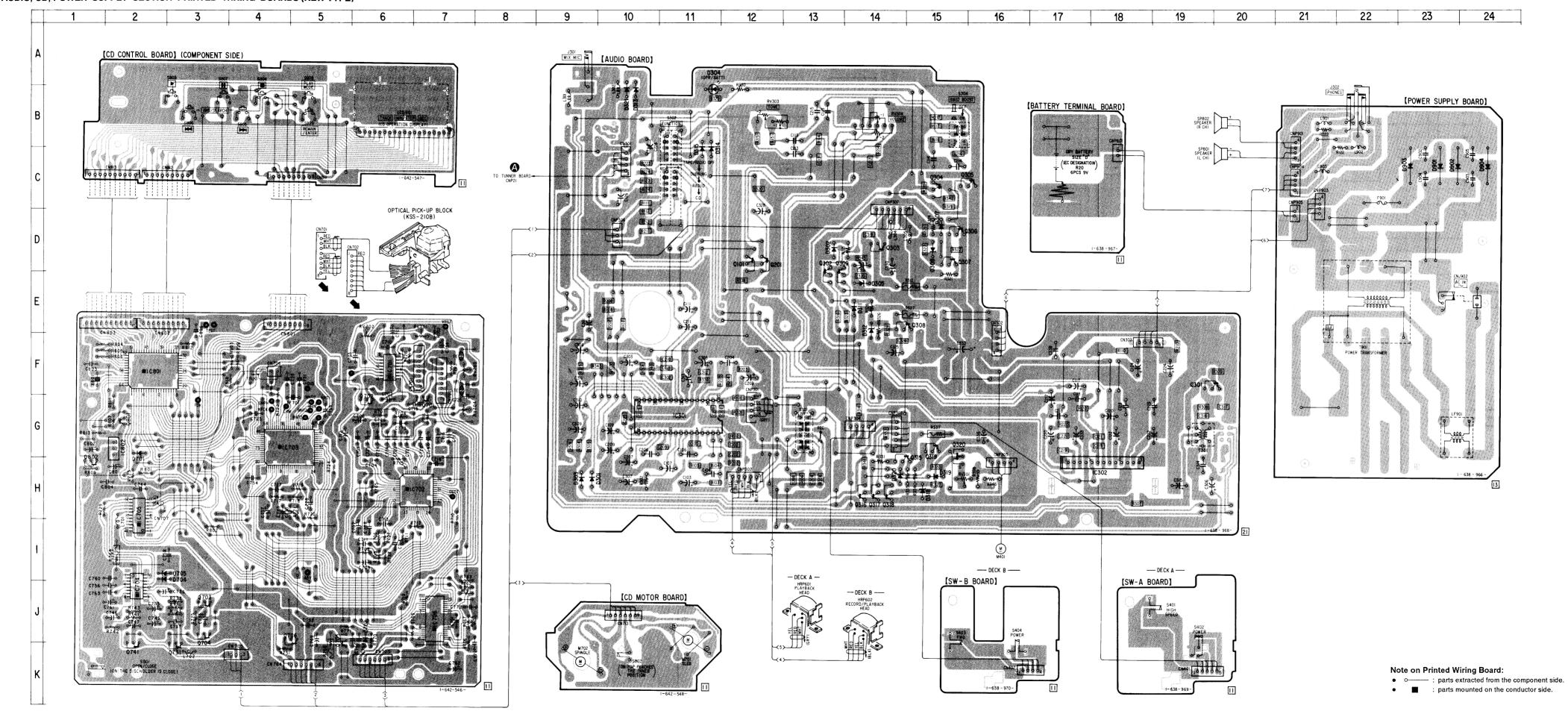
A. GND
RCH OUT 50 WV or less are not indicated except for electrolytics Q101 D-12 Q201 D-12 Q301 F-19 Q302 D-13 Q303 D-14 Q304 C-15 Q305 C-15 Q306 D-15 Q307 D-15 Q308 E-15 Q309 D-13 Q315 G-15 Q316 H-14 Q317 H-14 Q319 G-15 Q320 G-15 Q701 G-7 Q702 G-6 Q703 J-3 Q704 J-3 Q705 J-5 Q706 J-5 Q701 K-3 Q704 J-3 Q705 J-5 Q706 J-5 Q701 G-7 Q702 G-6 Q703 J-3 Q704 J-3 Q705 J-5 Q706 J-5 Q701 K-2 Q801 G-2 Q802 H-1 (ON:FOP PEACHES
THE INNER POSITION) Q706 25B1013-34 (5.1) CĐ SWITCH TAPE: 4.2 CLK CLK LSI RSI RSI CLK WBCK WBCK RREF ₹ R767 22k L701 10#H and tantalums. • All resistors are in Ω and ? specified.

• tusible resistor.

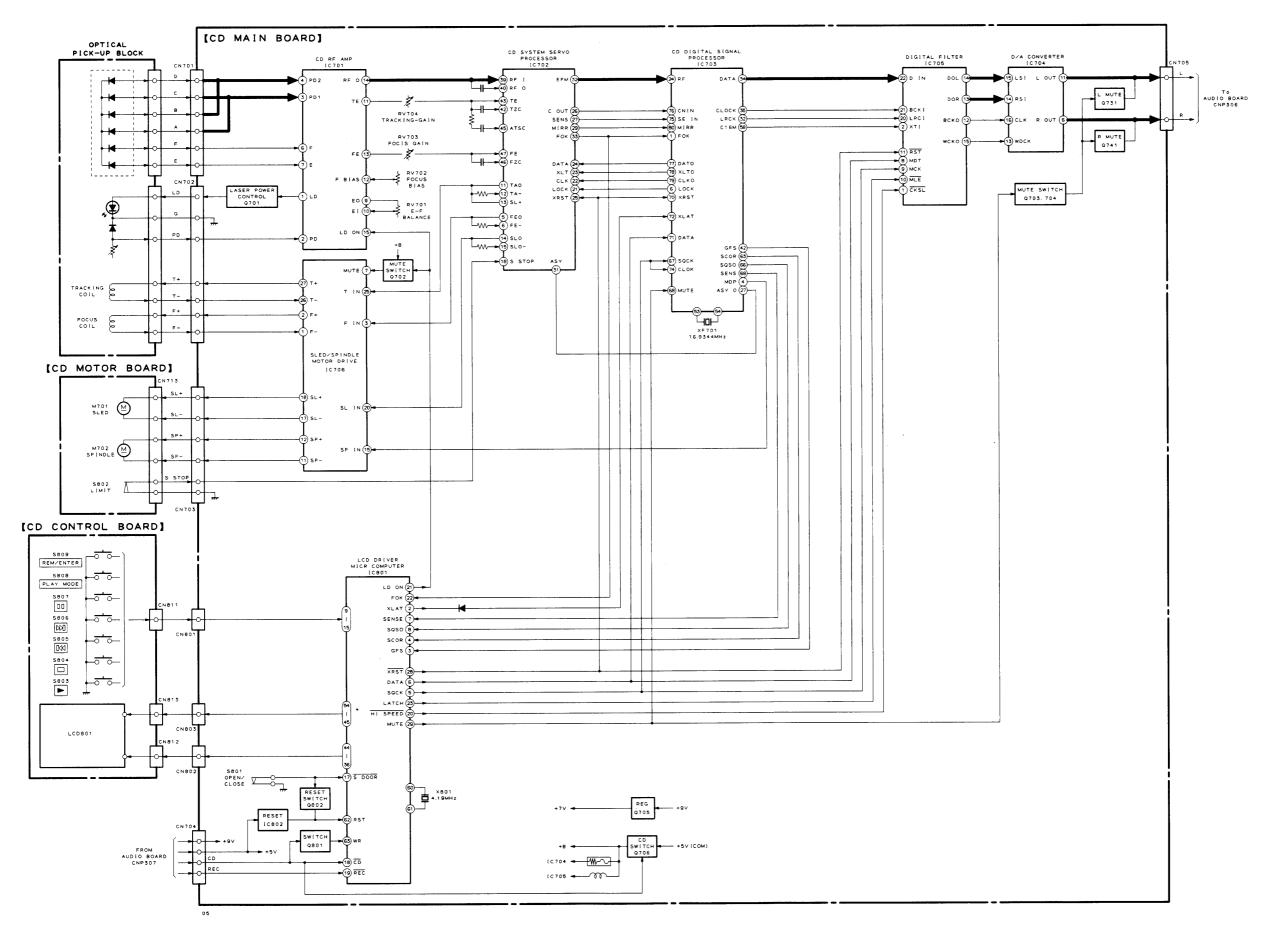
• adjustment for repair. 0702 DTA124E5 (5.1) MUTE SWITCH TAPE:0.7 RABIO:0.7 (See page 27) Voltages and waveforms are dc with respect to ground under RAÐ10:5.3 5.9 SPINĐLE 5 0.01# Y ■ R771 100 no-signal (detuned) conditions. Q741 DTC143TS MUTING 2746 4.7⊭ 50V C756 0.01# Y no mark: STOP)-3-(0-5)-(0-7)-(0-9)-(0-10-10-20-13-10 CN703 (): PLAY 9705 155133 9704 155133 IC706 + C762 + C765 | B702 |
T 1000 T 16V MIZJ6.8A T Voltages are taken with a VOM (10 MΩ/V). SLEÐ SPINÐLE MOTOR ÐRIVE Voltage variations may be noted due to normal production D. GND 5V (CDM) CD REC Wavefroms are taken with a oscilloscope. Voltage variations may be noted due to normal production Signal path. [CD MOTOR BOARD] (See page 29) Note: The components identified by mark ♠ or dotted line with mark A are critical for safety.

Replace only with part number specified -12--13--14--11-

6-5. AUDIO, CD, POWER SUPPLY SECTION PRINTED WIRING BOARDS (NEW TYPE)



6-2. CD SECTION BLOCK DIAGRAM (NEW TYPE)



CD 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

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

SEMICONDUCTORS

In each case, u: μ , for example: uA..: μ A.. uPA.: μ PA. uPB..: μ PB.. uPC..: μ PC.. uPD..: μ PD.

• CAPACITORS

uF: μF

• COILS

uH: μΗ

When incompleted in the number,

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

The components identified by mark $ilde{\Lambda}$ or dotted line with mark. $ilde{\Lambda}$ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Λ sont critiques pour la sécurité.

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

Ref. No.	Part No.	Description	_		Remark	Ref. No.	Part No.	Description			Remark
	-		_			C731	1-102-942-00	CERAMIC	5. OPF +-	-0. 5PF	50V
*	A-3275-338-A	CD MAIN BOA	RD, COMPLETI	Ξ		C732	1-102-942-00	CERAMIC	5. OPF +	-0. 5PF	50V
		******	******	k		C733	1-124-902-00	ELECT	0. 47uF	20%	50V
						C734	1-124-907-11	ELECT	10uF	20%	50V
*	1-566-497-11	PIN, CONNEC	TOR			C735	1-124-034-51	ELECT	33uF	20%	16V
		< CAPACITOR	>			C736	1-124-927-11	ELECT	4. 7uF	20%	100V
						C737	1-162-290-31	CERAMIC	470PF	10%	50V
C701	1-124-443-00	ELECT	100uF	20%	10V	C744	1-161-379-00	CERAMIC	0. 01uF	20%	25V
C702	1-124-242-00	ELECT	33uF	20%	25V	C745	1-124-034-51	ELECT	33uF	20%	16V
C703	1-124-034-51	ELECT	33uF	20%	16V	C746	1-124-927-11	ELECT	4. 7uF	20%	100V
C704	1-136-165-00	FILM	0. 1uF	5%	50V						
C705	1-136-165-00	FILM	0. 1uF	5%	50V	C747	1-162-290-31	CERAMIC	470PF	10%	50V
						C751	1-162-851-11	CERAMIC	0. 1uF		16V
C706	1-124-261-00	ELECT	10uF	20%	50V	C752	1-161-377-00	CERAMIC	0.0047uF	30%	16V
C707	1-131-368-00	TANTALUM	3. 3uF	10%	16V	C753	1-162-851-11	CERAMIC	0. 1uF		16V
C708	1-130-489-00	MYLAR	0. 033uF	5%	50V	C754	1-136-173-00	FILM	0. 47uF	5%	50V
C709	1-123-382-00	ELECT	3. 3uF	20%	100V						
C710	1-136-173-00	FILM	0. 47uF	5%	50V	C756	1-161-379-00	CERAMIC	0. 01uF	20%	25V
						C757	1-124-477-11		47uF	20%	25V
C711	1-130-493-00	MYLAR	0. 068uF	5%	50V	C758	1-162-851-11		0. 1uF		16V
C712	1-124-589-11	ELECT	47uF	20%	16V	C759	1-162-290-31	CERAMIC	470PF	10%	50V
C713	1-162-851-11	CERAMIC	0. 1uF		16V	C760	1-162-851-11	CERAMIC	0. 1uF	-	16V
C714	1-162-215-31	CERAMIC	47PF	5%	50V						
C715	1-162-294-31		0. 001uF	10%	50V	C761	1-124-442-00	ELECT	330uF	20%	6. 3V
						C762	1-124-473-11	ELECT	1000uF	20%	10V
C716	1-130-489-00	MYLAR	0. 033uF	5%	50V	C763	1-162-294-31	CERAMIC	0. 001uF	10%	50V
C717	1-124-589-11		47uF	20%	16V	C764	1-161-379-00		0. 01uF	20%	25V
C718	1-161-379-00		0. 01uF	20%	25V	C765	1-124-477-11		47uF	20%	25V
C719	1-130-489-00	MYLAR	0. 033uF	5%	50V						
C720	1-130-475-00	MYLAR	0. 0022uF	5%	50V	C766	1-161-379-00	CERAMIC	0. 01uF	20%	25V
						C771	1-162-294-31	CERAMIC	0.001uF	10%	50V
C721	1-161-494-00	CERAMIC	0. 022uF		25V	C772	1-130-484-00		0. 012uF	5%	50V
C722	1-161-379-00	CERAMIC	0. 01uF	20%	25V	C773	1-161-329-00		0. 0068uF	30%	16V
C723	1-161-379-00	CERAMIC	0. 01uF	20%	25V	C774	1-130-491-00		0. 047uF	5%	50V
C724	1-130-489-00	MYLAR	0. 033uF	5%	50V						
C725	1-136-165-00		0. 1uF	5%	50V	C801	1-124-034-51	ELECT	33uF	20%	16V
				-		C802	1-124-902-00		0. 47uF	20%	50V
C726	1-162-294-31	CERAMIC	0. 001uF	10%	50V	C803	1-161-379-00		0. 01uF	20%	25V
C727	1-130-491-00		0. 047uF	5%	50V	C804	1-136-169-00		0. 22uF	5%	50V
C728	1-161-374-11		0. 0015uF	20%	50V	C806	1-161-379-00		0. 01uF	20%	25V
C729	1-136-173-00		0. 47uF	5%	50V		_ 101 010 00		5, 51ui	2070	20.
C730	1-161-379-00		0. 97uF	20%	25V						

CD MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	on		Re	mark
				R705	1-249-441-11	CARBON	100K	5%	1/4W	
		< CONNECTOR >		R706	1-249-438-11		56K	5%	1/4W	
		COMMEDIAN		R707	1-247-885-00		180K	5%	1/4W	
. 01701	1 564 710 11	PIN, CONNECTOR (SMALL TYPE) 8P		R708	1-249-432-11		18K	5%	1/4W	
				R709	1-249-437-11		47K	5%	1/4W	
		PIN, CONNECTOR (SMALL TYPE) 8P		11/03	1 243 437 11	Childon	1711	0.0	1, 1	
		HOUSING, CONNECTOR 6P		D710	1-249-417-11	CADRON	1K	5%	1/4W	
		SOCKET, CONNECTOR 6P		R710	1-249-417-11		510K		1/4W	
* CN705	1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P		R711				5%	1/4W	
				R712	1-247-883-00		150K			
		HOUSING, CONNECTOR 2P		R713	1-249-429-11		10K	5%	1/4W	
		PIN, CONNECTOR (PC BOARD) 8P		R714	1-249-417-11	CARBUN	1K	5%	1/4W	
* CN802	1-568-454-11	PIN, CONNECTOR (PC BOARD) 9P					00011	- 0.	4 / 4177	
* CN803	1-568-455-11	PIN, CONNECTOR (PC BOARD) 10P		R715	1-247-887-00		220K		1/4W	
				R716	1-249-429-11		10K	5%	1/4W	
		< DIODE >		R717	1-249-423-11		3. 3K		1/4W	
				R718	1-247-881-00		120K		1/4W	
D701	8-719-911-19	DIODE 1SS119		R719	1-249-423-11	CARBON	3. 3K	5%	1/4W	
D702	8-719-109-97	DIODE RD6. 8ES-B2								
D704	8-719-911-19	DIODE 1SS119		R720	1-247-856-00	CARBON	11K	5%	1/4W	
D705	8-719-911-19	DIODE 1SS119		R721	1-249-441-11	CARBON	100K	5%	1/4W	
				R722	1-249-441-11	CARBON	100K	5%	1/4W	
		< IC >		R723	1-249-441-11	CARBON	100K	5%	1/4W	
				R724	1-249-417-11	CARBON	1K	5%	1/4W	
10701	8-752-039-03	IC CXA1421M								
	8-752-053-73			R725	1-249-433-11	CARBON	22K	5%	1/4W	
	8-752-337-26	·		R726	1-249-417-11		1K	5%	1/4W	
				R727	1-249-441-11			5%	1/4W	
	8-759-148-30			R728	1-249-437-11		47K	5%	1/4W	
10/05	8-759-503-98	IC SM5840DS		R729	1-249-417-11		1K	5%	1/4₩	
7.000.0	0 750 540 50	TO DACOGOED		R/23	1 245 417 11	OMIDON	111	0.0	1/ 1	
	8-759-518-59			R730	1-249-417-11	CADRON	1K	5%	1/4W	
	8-752-830-87						10K	5%	1/4W	
IC802	8-759-971-11	IC PST529D		R731	1-249-429-11		2. 7K		1/4W	
				R732	1-249-422-11		2. 7 K	5%	1/4W	
		< COIL >		R733	1-247-838-00					
				R741	1-249-429-11	CARBUN	10K	5%	1/4W	
L701	1-410-509-11					a. DDON	0.77	r _e	4 /450	
L702	1-410-316-11	INDUCTOR 1uH		R742	1-249-422-11		2. 7K		1/4W	
				R743	1-247-838-00		2K	5%	1/4W	
		< TRANSISTOR >		R751	1-249-417-11	CARBON	1K	5%	1/4W	
				R761	1-249-435-11	CARBON	33K	5%	1/4W	
Q701	8-729-801-82	TRANSISTOR 2SB1013-2		R762	1-249-429-11	CARBON	10K	5%	1/4W	
Q702	8-729-900-63									
Q703	8-729-904-39	TRANSISTOR DTC114TS		R763	1-249-429-11	CARBON	10K	5%	1/4W	
Q704	8-729-902-80			R764	1-249-435-11	CARBON	33K	5%	1/4W	
Q705	8-729-905-67			R765	1-247-838-00	CARBON	2K	5%	1/4W	
4.00				R766	1-249-437-11	CARBON	47K	5%	1/4W	
Q706	8-729-801-84	TRANSISTOR 2SB1013-4		R767	1-249-433-11	CARBON	22K	5%	1/4W	
Q731	8-729-900-74									
Q731 Q741	8-729-900-74			∕ 1\R768	1-217-639-00	FUSIBLE	2. 2	5%	1/4W	F
Q741 Q801	8-729-900-63			1 R769	1-212-861-11		15	5%	1/4W	
	8-729-900-89			<u> </u>	2 222 272 27					
Q802	0-729-900-09	INANSISION DICITALS								
		< RESISTOR >		The co	mponents ident	tified by	Les composa	nts i	identifi	és
		\ ILDIDION /		i	or dotted li		par une mar			
D704	1 240, 207 44	CARBON 22 5% 1/	4W		∆ are critica		critiques p			ité.
R701	1-249-397-11		ı	1	. Replace only		Ne les remp			4
R702	1-249-433-11		l l	1	umber specifie		portant le			
R703	1-247-806-11			par t II	umber Specific	· · ·	FOI COME TO			
R704	1-247-883-00	CARBON 150K 5% 1/	±n							

CD MAIN

Ref. No.	Part No.	Descripti	on			Remark ———
R770	1-249-411-11	CARRON		330	5%	1/4W
	1-249-405-11			100		
	1-249-405-11				5%	
	1-249-405-11				5% 5%	
R803	1-249-437-11	CARBON		47K	5%	1/4W
R804	1-249-435-11	CARBON		33K	5%	1/4W
R805	1-249-435-11	CARBON		33K	5%	1/4W
R806	1-249-435-11	CARBON		33K	5%	1/4W
R807	1-249-441-11	CARBON		100K	5%	1/4W
R809	1-249-437-11	CARBON	4	47K	5%	1/4W
R811	1-249-441-11	CARBON		100K	5%	1/4W
	1-249-429-11			10K	5%	1/4W
	1-249-437-11			17K	5%	1/4W
	1-249-429-11			10K		1/4W
		< VARIABLE	E RESIST	ror >		
RV701	1-230-497-11	RES, ADJ,	CARBON	22K		
RV702	1-237-288-11	RES, ADJ,	CARBON	47K		
RV703	1-230-497-11	RES, ADJ,	CARBON	22K		
RV704	1-230-497-11	RES, ADJ,	CARBON	22K		
		< SWITCH >	,			
S801	1-571-274-11	SWITCH, LE	AF (OPE	N/CL(OSE)	
		< VIBRATOR	1>			
X801	1-567-775-11	VIBRATOR,	CERAMIC	(4. :	9MHz))
XF701	1-579-345-11	VIBRATOR,	CERAMIC	(16.	9344	MHz)
*****	******	******	*****	****	****	*****

Printing Method for Large Sized Documents Such As Circuit Diagrams

Printing the page that exceeds A4-size two pages (or letter size) is possible by specifying the print range. (Acrobat Reader Version 4.0 or later)

- 1. The enlarged print is made, if a smaller range than A4 size is specified and the A4 size is selected as a print paper.
- 2. Almost real sized print is made, if the range is specified, meeting the print paper size.
- 3. The reduced print is made, if a larger range than the print paper size is specified.

Printing by Specifying a Range

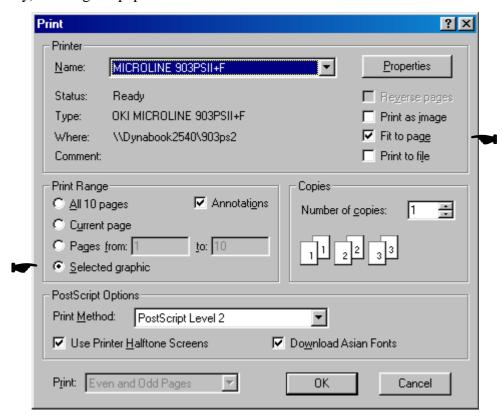
In printing out the drawings such as a schematic diagram and a printed wiring board larger than the printed paper size, they can be printed by specifying the range. (Acrobat Reader Version 4.0 or later)

- 1. Display the page to be printed.
- 2. From the File menu, select [Page Setup] and set the paper size.
- 3. From the Command bar, select [Graphic Select Tool].

(Keep pressing $|\mathbf{T}_{\square}|$, select $|\mathbf{S}|$)



- 4. Dragging the cursor, enclose the range on the page to be printed.
- 5. From the File menu, select [Print] and make sure that the [Selected Graphic] is already checked. Also, if [Fit to page] is checked, the selected range is enlarged or reduced (and rotated as necessary) meeting the paper size.



6. To cancel the printed range, click an arbitrary position on the screen.

REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

1.0 1991.09 1992.05 Supplement-1 1.1 2002.05 Correction of Part No. for 314 of Exploded Views (15704 0201).	Ver.	Date	Description of Revision
1.1 2002.05 Correction of Part No. for 314 of Exploded Views (SPRINGED)	1.0		
	1.1	2002.05	Correction of Part No. for 314 of Exploded Views (SPM-02013)