

CDX-CA400/CA530X/CA580X

SERVICE MANUAL

Ver 1.0 2001. 12

US Model
Canadian Model

CDX-CA400

E Model

CDX-CA530X/CA580X



Photo: CDX-CA400

- The tuner and CD sections have no adjustments.

AUDIO POWER SPECIFICATIONS (US Model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
23 watts per channel minimum continuous average power into
4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more
than 5% total harmonic distortion.

CD player section

Signal-to-noise ratio 90 dB
Frequency response 10 – 20,000 Hz
Wow and flutter Below measurable limit

Tuner section

FM
Tuning range 87.5 – 107.9 MHz
Antenna terminal External antenna connector
Intermediate frequency 10.7 MHz
Usable sensitivity 11 dBf
Selectivity 75 dB at 400 kHz
Signal-to-noise ratio 65 dB (stereo),
68 dB (mono)
Harmonic distortion at 1 kHz
0.7% (stereo),
0.5% (mono)
Separation 33 dB at 1 kHz
Frequency response 30 – 15,000 Hz

AM

Tuning range 530 – 1,710 kHz
Antenna terminal External antenna connector
Intermediate frequency 10.7 MHz/450 kHz
Sensitivity 30 μ V

Power amplifier section

Outputs Speaker outputs
(sure seal connectors)
Speaker impedance 4 – 8 ohms
Maximum power output 50 W \times 4 (at 4 ohms)

Model Name Using Similar Mechanism	CDX-L300/L460X
CD Drive Mechanism Type	MG-393XA-121//K
Optical Pick-up Name	KSS-720A

SPECIFICATIONS

General

Outputs Audio outputs
Power antenna relay control lead
Power amplifier control lead

Tone controls Bass \pm 10 dB at 20 Hz (CDX-CA400)
Bass \pm 9 dB at 100 Hz (CDX-CA530X/CA580X)
Treble \pm 10 dB at 20 kHz (CDX-CA400)
Treble \pm 9 dB at 10 kHz (CDX-CA530X/CA580X)

Power requirements 12 V DC car battery
(negative ground)

Dimensions Approx. 178 \times 50 \times 177 mm
(7 1/8 \times 2 \times 7 in.) (w/h/d)

Mounting dimensions Approx. 182 \times 53 \times 161 mm
(7 1/4 \times 2 1/8 \times 6 3/8 in.) (w/h/d)

Mass Approx. 1.2 kg
(2 lb. 10 oz.)

Supplied accessories Parts for installation and connections (1 set)
Front panel case (1)
Card remote commander
RM-X115 (CA400/CA580X)

Note

This unit cannot be connected to a digital preamplifier or an equalizer.

Design and specifications are subject to change without notice.

FM/AM COMPACT DISC PLAYER

9-873-433-01
2001L0400-1
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Sony Corporation
e Vehicle Company
Published by Sony Engineering Corporation

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SERVICE NOTES

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 breakdown 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 from more than 30 cm away from the objective lens.

Notes on Chip Component Replacement

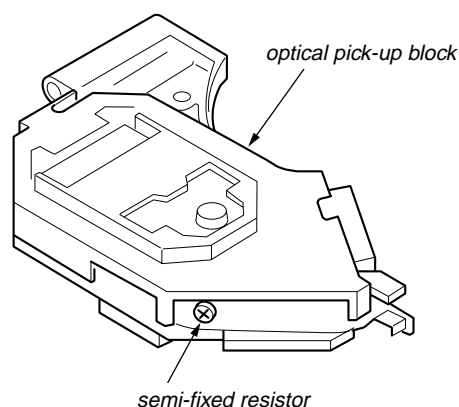
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

If the optical pick-up block is defective, please replace the whole optical pick-up block.

Never turn the semi-fixed resistor located at the side of optical pick-up block.



TEST DISCS

This set can playback CD-R and CD-ROM discs. The following test discs should be used to check the capability:

CD-R test disc TCD-R082LMT (Part No. J-2501-063-1)

CD-RW test disc TCD-W082L (Part No. J-2501-063-2)

Notes on CD-R/CD-RW discs

- You can play CD-Rs (recordable CDs)/CD-RWs (rewritable CDs) designed for audio use on this unit. Look for these marks to distinguish CD-Rs/CD-RWs for audio use.



These marks denote that a disc is not for audio use.



- Some CD-Rs/CD-RWs (depending on the equipment used for its recording or the condition of the disc) may not play on this unit.
- You cannot play a CD-R/CD-RW that is not finalized*.

* A process necessary for a recorded CD-R/CD-RW disc to be played on the audio CD player.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle 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 \triangle 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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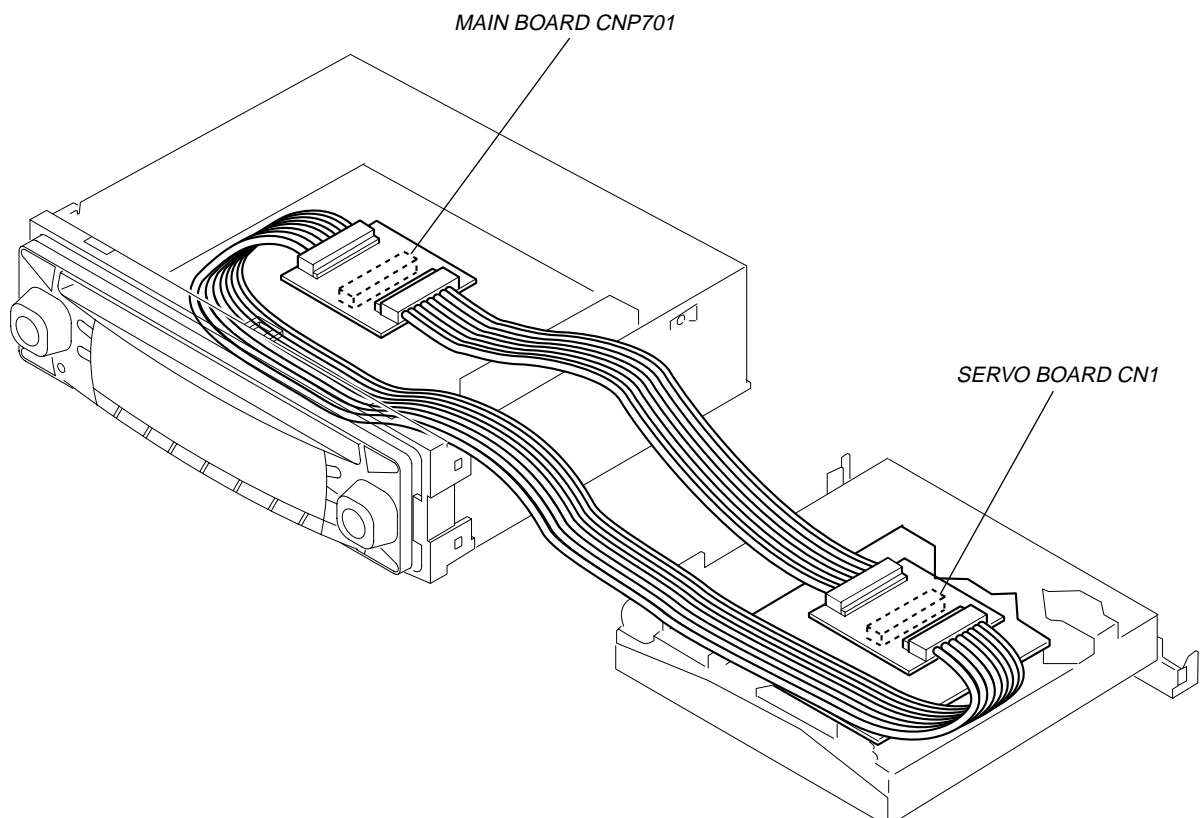
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EXTENSION CABLE AND SERVICE POSITION

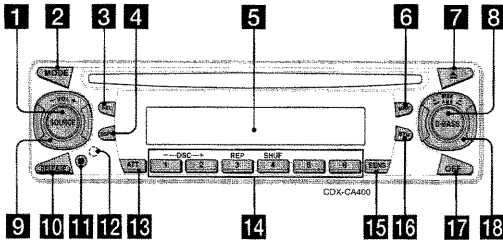
When repairing or servicing this set, connect the jig (extension cable) as shown below.

- Connect the MAIN board (CNP701) and the SERVO board (CN1) with the extension cable (Part No. J-2502-062-1).



This section is extracted from instruction manual.

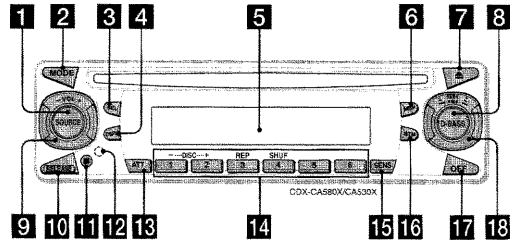
Location of controls (CDX-CA400)



Refer to the pages listed for details.

- 1 SOURCE (Power on/Radio/CD/MD) button 9, 10, 11, 12
 - 2 MODE button 10, 11, 12
 - 3 SEL (select) button 9, 13, 14
 - 4 DSPL (display mode change) button 9, 10, 11
 - 5 Display window
 - 6 MBP (My Best sound Position) button 14
 - 7 ⏏ (eject) button 9
 - 8 D-BASS button 14
 - 9 VOL (volume) +/- control dial 9, 13
 - 10 RELEASE (front panel release) button 8
 - 11 Receptor for the card remote commander
 - 12 RESET button (located on the front side of the unit, behind the front panel) 7
 - 13 ATT (attenuate) button 13
 - 14 Number buttons 12, 13
 - ① DISC - 10
 - ② DISC + 10
 - ③ REP 10
 - ④ SHUF 10
 - 15 SENS button 12
 - 16 BTM (Best Tuning Memory) button 11
 - 17 OFF (Stop/Power off) button* 8, 9
 - 18 SEEK/AMS +/- control dial 9, 12
- * Warning when installing in a car without an ACC (accessory) position on the ignition key switch
Be sure to press **OFF** on the unit for 2 seconds to turn off the clock display after turning off the engine.
Otherwise, the clock display does not turn off and this causes battery drain.

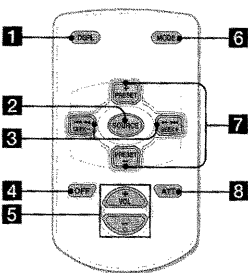
Location of controls (CDX-CA530X/CA580X)



Refer to the pages listed for details.

- 1 SOURCE (Power on/Radio/CD/MD) button 9, 10, 11, 12
 - 2 MODE button 10, 11, 12
 - 3 SEL (select) button 9, 13, 14
 - 4 DSPL (display mode change) button 9, 10, 11
 - 5 Display window
 - 6 MBP (My Best sound Position) button 14
 - 7 ⏏ (eject) button 9
 - 8 D-BASS button 14
 - 9 VOL (volume) +/- control dial 9, 13
 - 10 RELEASE (front panel release) button 8
 - 11 Receptor for the card remote commander
 - 12 RESET button (located on the front side of the unit, behind the front panel) 7
 - 13 ATT (attenuate) button 13
 - 14 Number buttons 12, 13
 - ① DISC - 10
 - ② DISC + 10
 - ③ REP 10
 - ④ SHUF 10
 - 15 SENS button 12
 - 16 BTM (Best Tuning Memory) button 11
 - 17 OFF (Stop/Power off) button* 8, 9
 - 18 SEEK/AMS +/- control dial 9, 12
- * Warning when installing in a car without an ACC (accessory) position on the ignition key switch
Be sure to press **OFF** on the unit for 2 seconds to turn off the clock display after turning off the engine.
Otherwise, the clock display does not turn off and this causes battery drain.

Card remote commander RM-X115 (CDX-CA400)



The corresponding buttons of the card remote commander control the same functions as those on this unit.

- 1 DSPL button
- 2 SOURCE button
- 3 SEEK (+/-) buttons
- 4 OFF button
- 5 VOL (+/-) buttons
- 6 MODE button
- 7 DISC/PRESET (+/-) buttons
- 8 ATT button

Note
If the unit is turned off by pressing **OFF** for 2 seconds, it cannot be operated with the card remote commander unless **SOURCE** on the unit is pressed, or a disc is inserted to activate the unit first.

Tip
Refer to "Replacing the lithium battery" for details on how to replace the batteries (page 15).

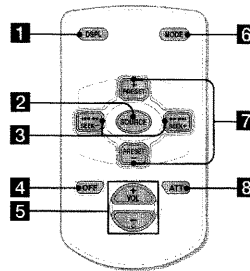


Card remote commander (CDX-CA530X/CA580X)

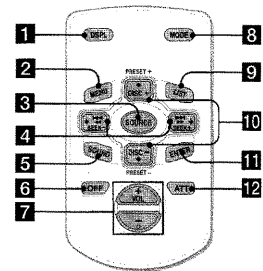
The corresponding buttons of the card remote commander control the same functions as those on this unit.

RM-X115 (supplied): CDX-CA580X

RM-X114 (optional): CDX-CA530X



- 1 DSPL button
- 2 SOURCE button
- 3 SEEK (+/-) buttons
- 4 OFF button
- 5 VOL (+/-) buttons
- 6 MODE button
- 7 DISC/PRESET (+/-) buttons
- 8 ATT button

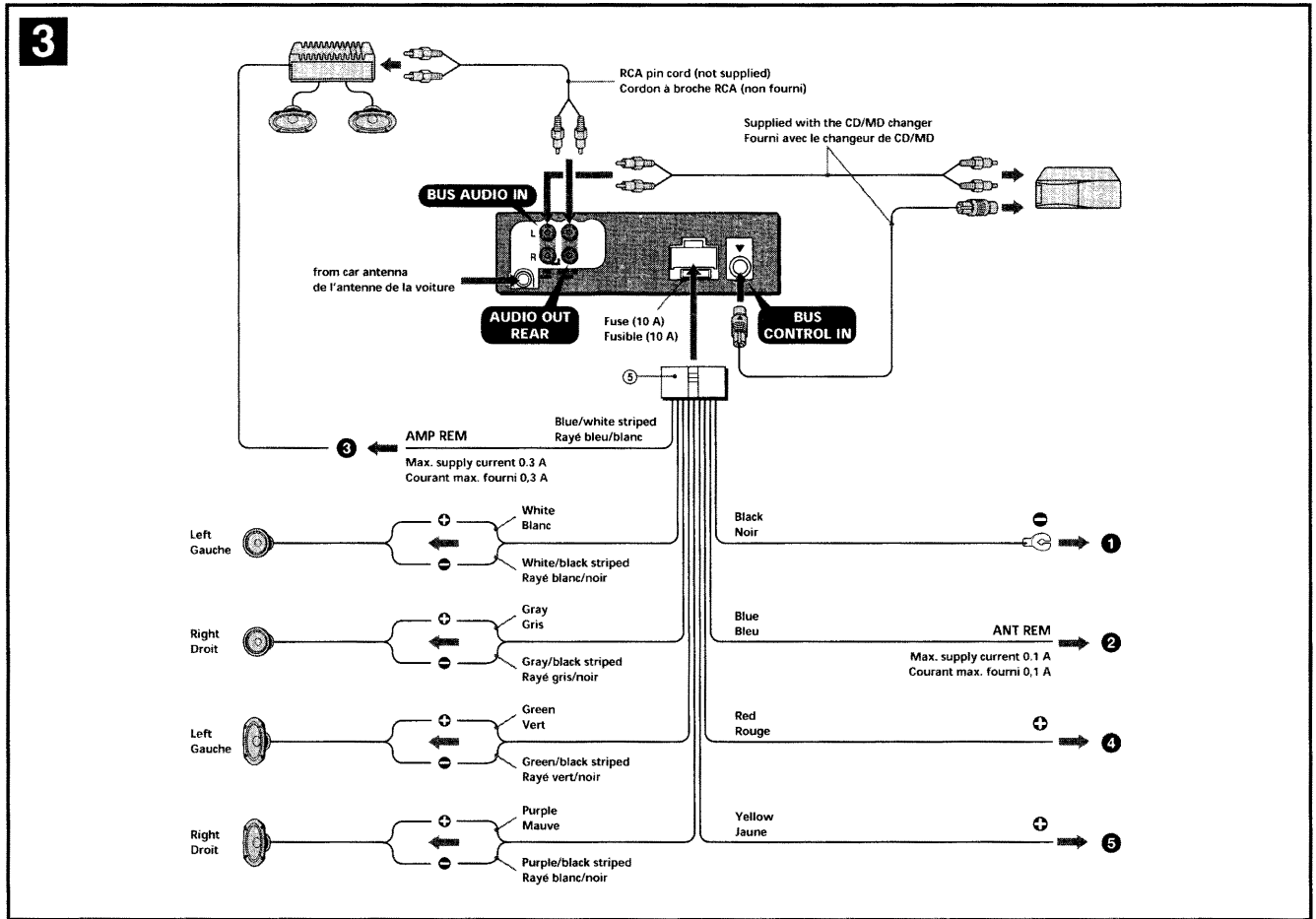


- 1 DSPL button
 - 2 MENU button*
 - 3 SOURCE button
 - 4 SEEK (←/→) buttons
 - 5 SOUND button (used as 3 SEL button for this unit)
 - 6 OFF button
 - 7 VOL (+/-) buttons
 - 8 MODE button
 - 9 LIST button*
 - 10 DISC/PRESET (↑/↓) buttons
 - 11 ENTER button*
 - 12 ATT button
- * Not available for this model

Note
If the unit is turned off by pressing **OFF** for 2 seconds, it cannot be operated with the card remote commander unless **SOURCE** on the unit is pressed, or a disc is inserted to activate the unit first.

Tip
Refer to "Replacing the lithium battery" for details on how to replace the batteries (page 15).

Connections (CDX-CA400)



Connection diagram (3)

- 1 To a metal surface of the car
First connect the black ground lead, then connect the yellow and red power input leads.
- 2 To the power antenna control lead or power supply lead of antenna booster amplifier
Notes
• It is not necessary to connect this lead if there is no power antenna or antenna booster, or with a manually-operated telescopic antenna.
• When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."
- 3 To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.
- 4 To the +12 V power terminal which is energized in the accessory position of the ignition key
Notes
• If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.
Be sure to connect the black ground lead to it first.
• When your car has a built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads."
- 5 To the +12 V power terminal which is energised at all times
Be sure to connect the black ground lead to it first.

Notes on the control and power supply leads

- The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner.
- When your car has built-in FM/AM antenna in the rear/side glass, connect the power antenna control lead (blue) or the accessory power input lead (red) to the power terminal of the existing antenna booster. For details, consult your dealer.
- A power antenna without relay box cannot be used with this unit.

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.
- Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.
- Do not connect the ground lead of this unit to the negative (-) terminal of the speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
- To avoid a malfunction, do not use the built-in speaker wires installed in your car if the unit shares a common negative (-) lead for the right and left speakers.
- Do not connect the unit's speaker cords to each other.

Schéma de raccordement (3)

- 1 A un point métallique de la voiture
Branchez d'abord le fil de masse noir et, ensuite, les fils d'entrée d'alimentation jaune et rouge.
- 2 Vers le fil de commande de l'antenne électrique ou le fil d'alimentation de l'amplificateur d'antenne
Remarque
• Il n'est pas nécessaire de raccorder ce fil s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne. Il n'est pas non plus nécessaire de le raccorder à une antenne télescopique manuelle.
• Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/laterale, voir "Remarques sur les fils de commande et d'alimentation".
- 3 Pour effectuer le raccordement à AMP REMOTE IN de l'amplificateur de puissance en option
Cette connexion s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.
- 4 A la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires
Remarque
• S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est en permanence sous tension. Raccordez d'abord le fil de masse noir.
• Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/laterale, voir "Remarques sur les fils de commande et d'alimentation".
- 5 A la borne +12 V qui est alimentée en permanence
Raccordez d'abord le fil de masse noir.

Remarques sur les fils de commande et d'alimentation

- Le fil de commande de l'antenne électrique (bleu) fournit une alimentation de +12 V CC lorsque vous mettez l'appareil sous tension.
- Lorsque votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/laterale, raccordez le fil de commande de l'antenne (bleu) ou le fil de l'entrée d'alimentation des accessoires (rouge) à la borne de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre détaillant.
- Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.

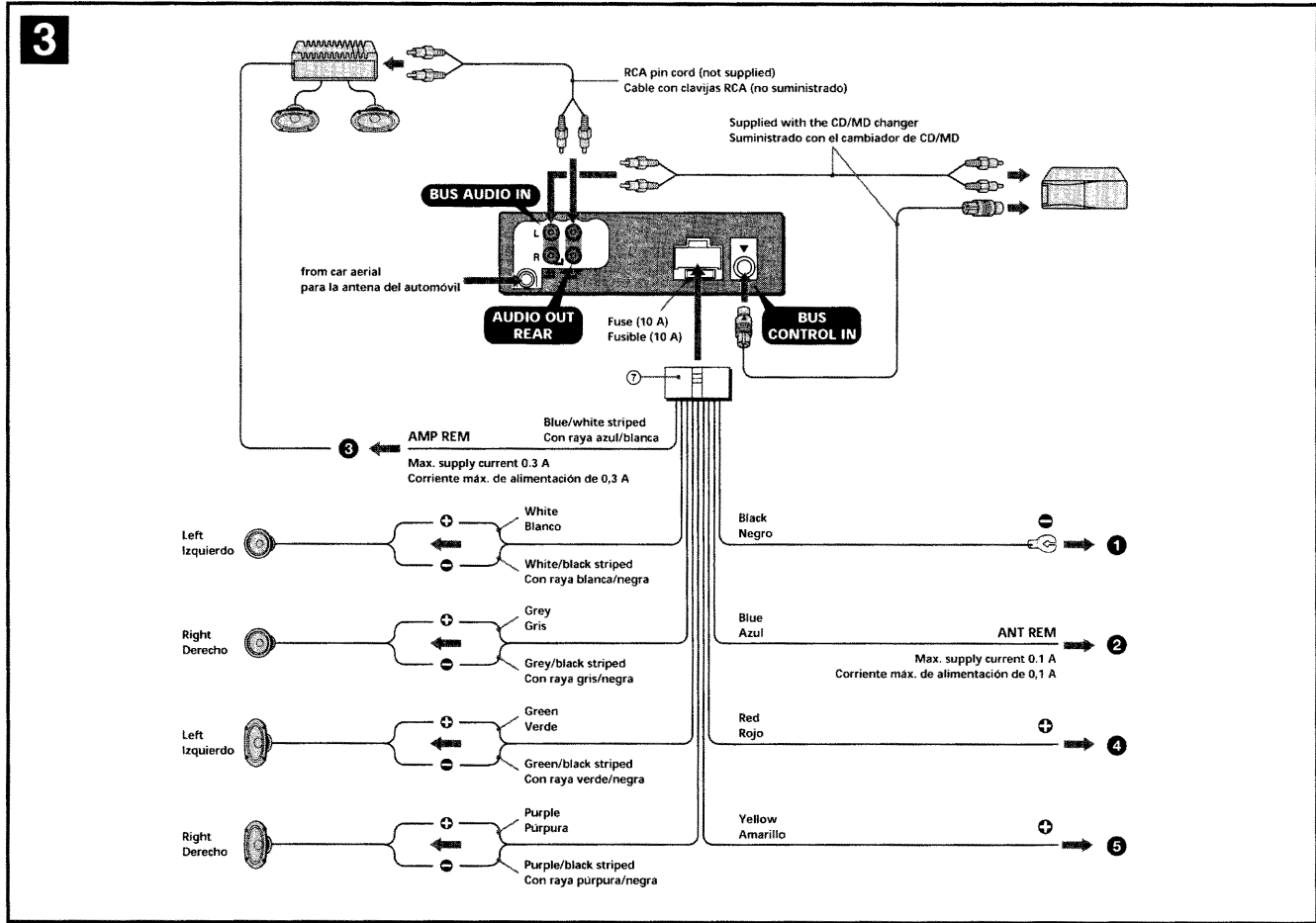
Raccordement pour la conservation de la mémoire

Lorsque le fil d'entrée d'alimentation jaune est raccordé, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Remarques sur le raccordement des haut-parleurs

- Avant de raccorder les haut-parleurs, mettez l'appareil hors tension.
- Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms avec une capacité de manipulation adéquate pour éviter de les endommager.
- Ne raccordez pas les bornes du système de haut-parleur au châssis de la voiture et ne raccordez pas les bornes du haut-parleur droit à celles du haut-parleur gauche.
- Ne raccordez pas le câble de masse de cet appareil à la borne négative (-) du haut-parleur.
- N'essayez pas de raccorder les haut-parleurs en parallèle.
- Raccordez uniquement des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.
- Pour éviter tout dysfonctionnement, n'utilisez pas les fils des haut-parleurs intégrés installés dans votre voiture si l'appareil partage un fil négatif commun (-) pour les haut-parleurs droit et gauche.
- Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.

Connections (CDX-CA530X/CA580X)



Connection diagram (3)

- 1 To a metal surface of the car
First connect the black earth lead, then connect the yellow and red power input leads.
- 2 To the power aerial control lead or power supply lead of aerial booster amplifier
Notes
• It is not necessary to connect this lead if there is no power aerial or aerial booster, or with a manually-operated telescopic aerial.
• When your car has a built-in FM/AM aerial in the rear/side glass, see "Notes on the control and power supply leads."
- 3 To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.
- 4 To the +12 V power terminal which is energized in the accessory position of the ignition key switch
Notes
• If there is no accessory position, connect to the +12 V power (battery) terminal which is energised at all times.
Be sure to connect the black earth lead to it first.
• When your car has a built-in FM/AM aerial in the rear/side glass, see "Notes on the control and power supply leads."
- 5 To the +12 V power terminal which is energised at all times
Be sure to connect the black earth lead to it first.

Notes on the control and power supply leads

- The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner.
- When your car has built-in FM/AM aerial in the rear/side glass, connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial booster. For details, consult your dealer.
- A power aerial without relay box cannot be used with this unit.

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.
- Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.
- Do not connect the earth lead of this unit to the negative (-) terminal of the speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
- To avoid a malfunction, do not use the built-in speaker wires installed in your car if the unit shares a common negative (-) lead for the right and left speakers.
- Do not connect the unit's speaker cords to each other.

Diagramas de conexión (3)

- 1 A una superficie metálica del automóvil
Conecte primero el cable de masa negro y después los cables amarillo y rojo de entrada de alimentación.
- 2 Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de antena
Notes
• Si no se dispone de antena motorizada ni de amplificador de antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.
• Si el automóvil incorpora una antena de FM/AM en el cristal trasero/lateral, consulte "Notas sobre los cables de control y de fuente de alimentación."
- 3 Para conectar a AMP REMOTE IN del amplificador de potencia opcional
Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.
- 4 Al terminal de alimentación de +12 V que recibe energía en la posición de accesorios del interruptor de la llave de encendido
Notes
• Si no hay posición de accesorios, conéctelo al terminal de alimentación (batería) de +12 V que recibe energía sin interrupción. Asegúrese de conectar primero el cable de masa negro.
• Si el automóvil incorpora una antena de FM/AM en el cristal trasero/lateral, consulte "Notas sobre los cables de control y de fuente de alimentación."
- 5 Al terminal de alimentación de +12 V que recibe energía sin interrupción
Asegúrese de conectar primero el cable de masa negro.

Notas sobre los cables de control y de fuente de alimentación

- El cable de control de la antena motorizada (azul) suministrará +12 V CC cuando conecte la alimentación del sintonizador.
- Si el automóvil dispone de una antena de FM/AM incorporada en el cristal trasero/lateral, conecte el cable de control de antena motorizada (azul) o el cable de entrada de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de antena existente. Para obtener información detallada, consulte a su proveedor.
- Con esta unidad no es posible utilizar una antena motorizada sin caja de relé.

Conexión para protección de la memoria

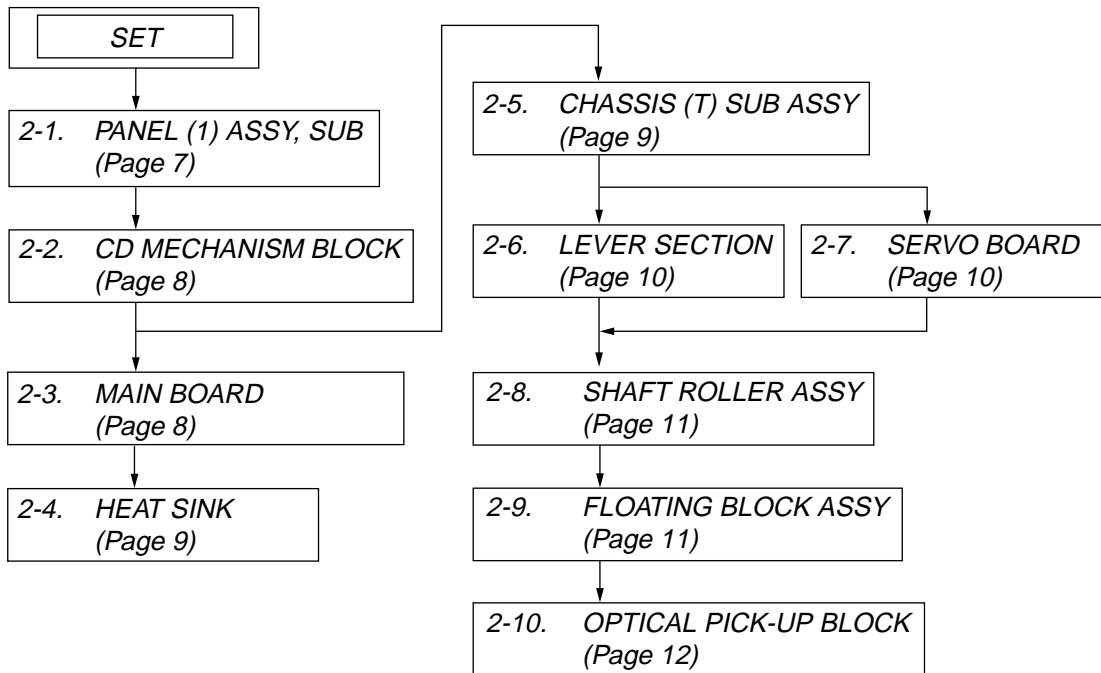
Si conecta el cable de entrada amarillo, el circuito de la memoria recibirá siempre alimentación, aunque ponga la llave de encendido en la posición de apagado.

Notas sobre la conexión de los altavoces

- Antes de conectar los altavoces, desconecte la alimentación de la unidad.
- Utilice altavoces con una impedancia de 4 a 8 ohmios y con la capacidad de potencia adecuada para evitar que se dañen.
- No conecte los terminales de altavoz al chasis del automóvil ni conecte los terminales del altavoz derecho con los del izquierdo.
- No conecte el cable de puesta a masa de esta unidad al terminal negativo (-) del altavoz.
- No intente conectar los altavoces en paralelo.
- Conecte solamente altavoces pasivos. Si conecta altavoces activos (con amplificadores incorporados) a los terminales de altavoz, puede dañar la unidad.
- Para evitar fallos de funcionamiento, no utilice los cables de altavoz incorporados instalados en el automóvil si su unidad comparte un cable negativo común (-) para los altavoces derecho e izquierdo.
- No conecte los cables de altavoz de la unidad entre sí.

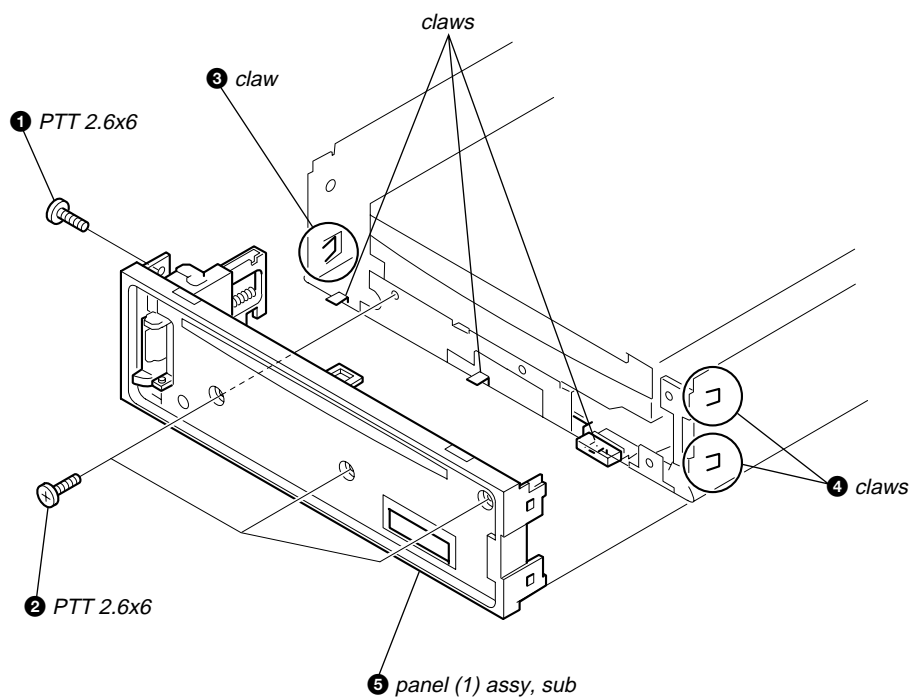
SECTION 2 DISASSEMBLY

Note : This set can be disassemble according to the following sequence.

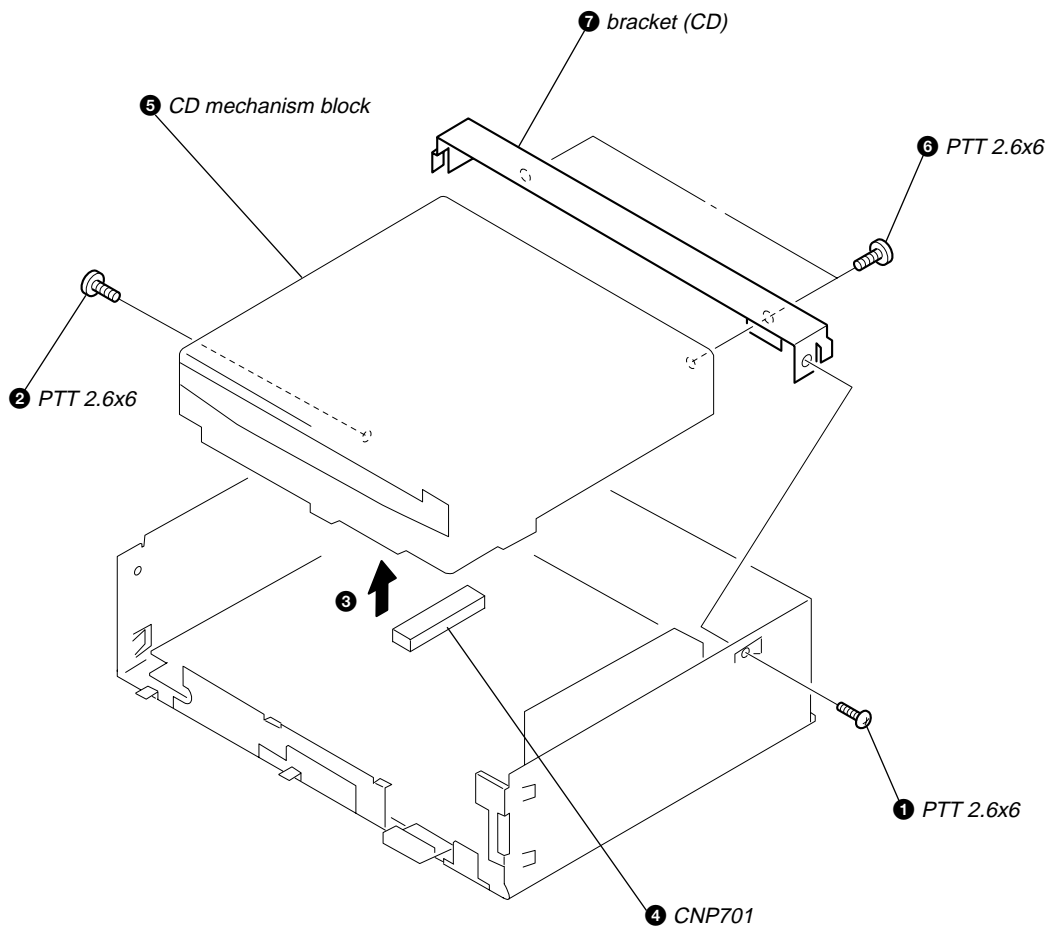


Note : Follow the disassembly procedure in the numerical order given.

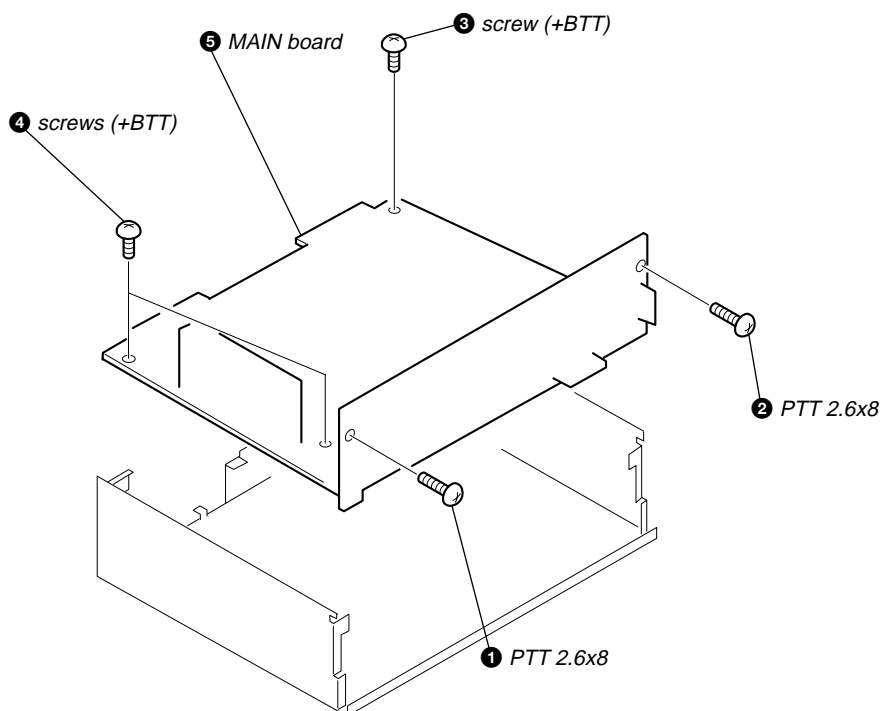
2-1. PANEL (1) ASSY, SUB



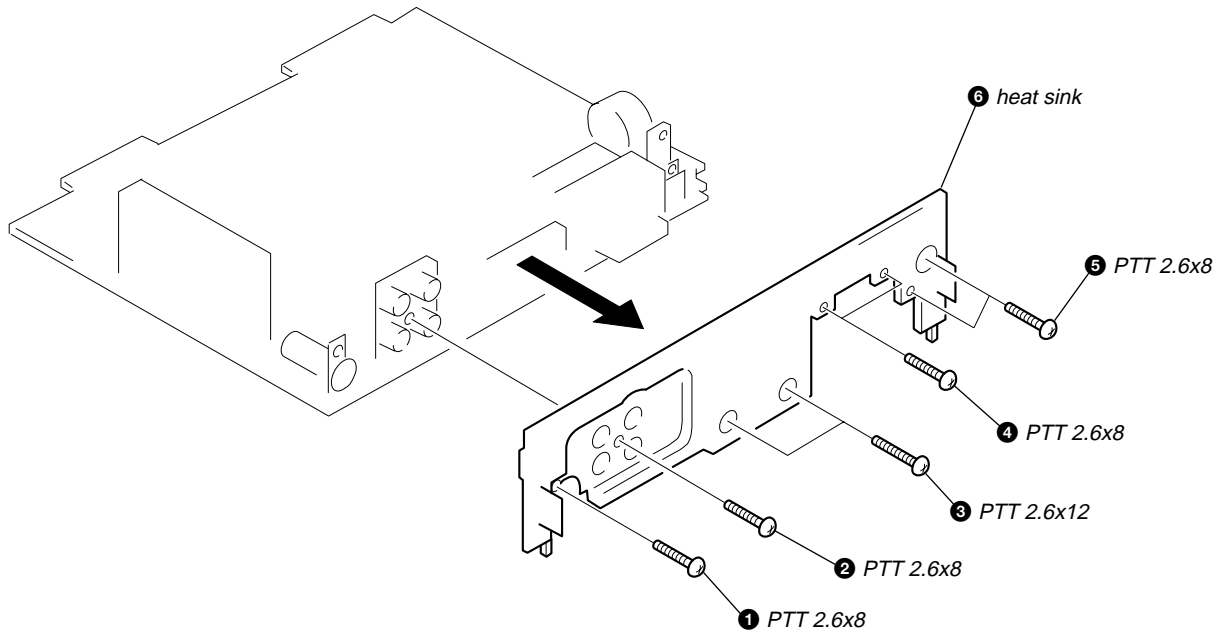
2-2. CD MECHANISM BLOCK



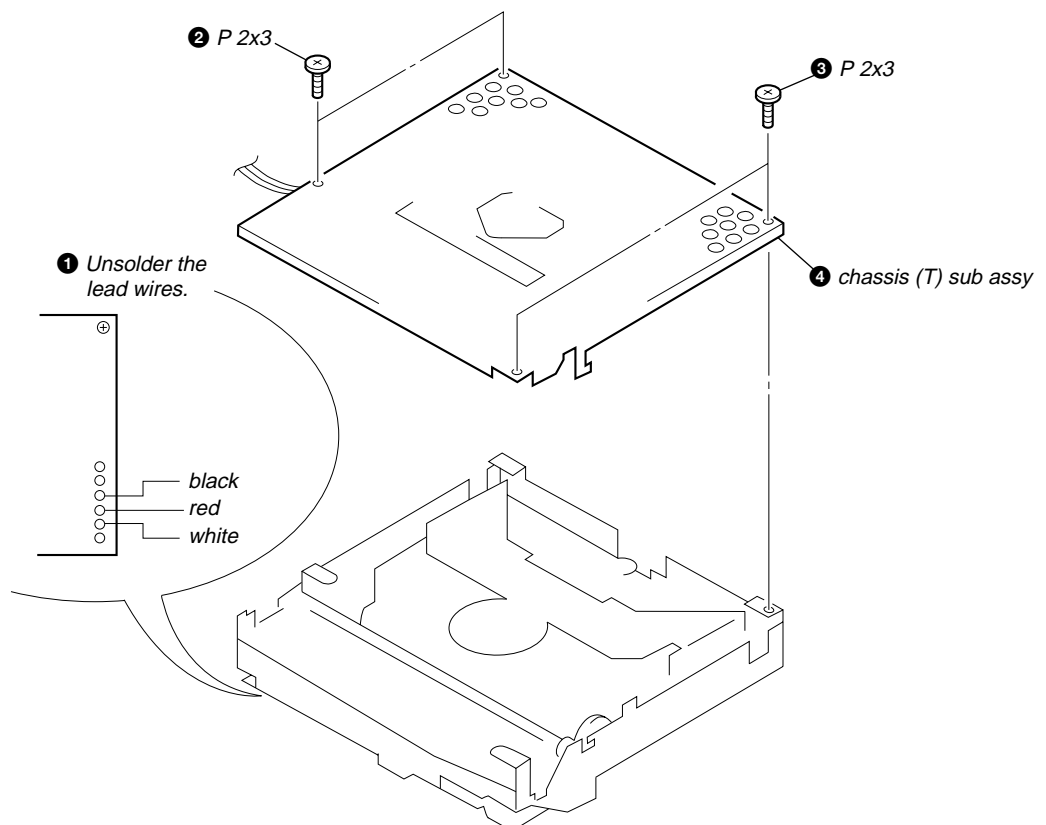
2-3. MAIN BOARD



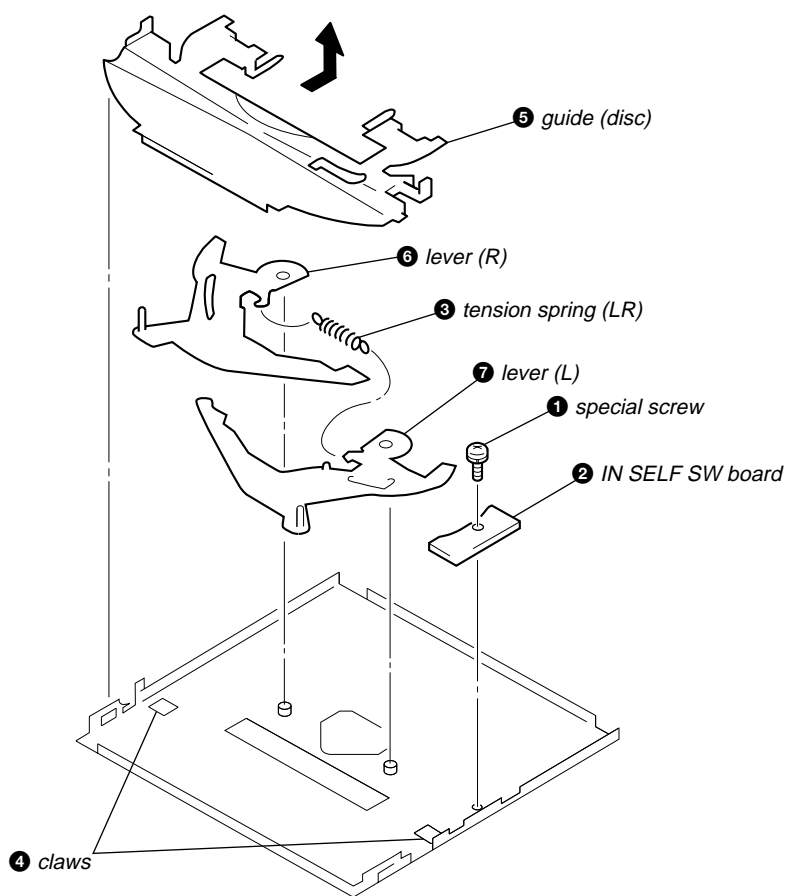
2-4. HEAT SINK



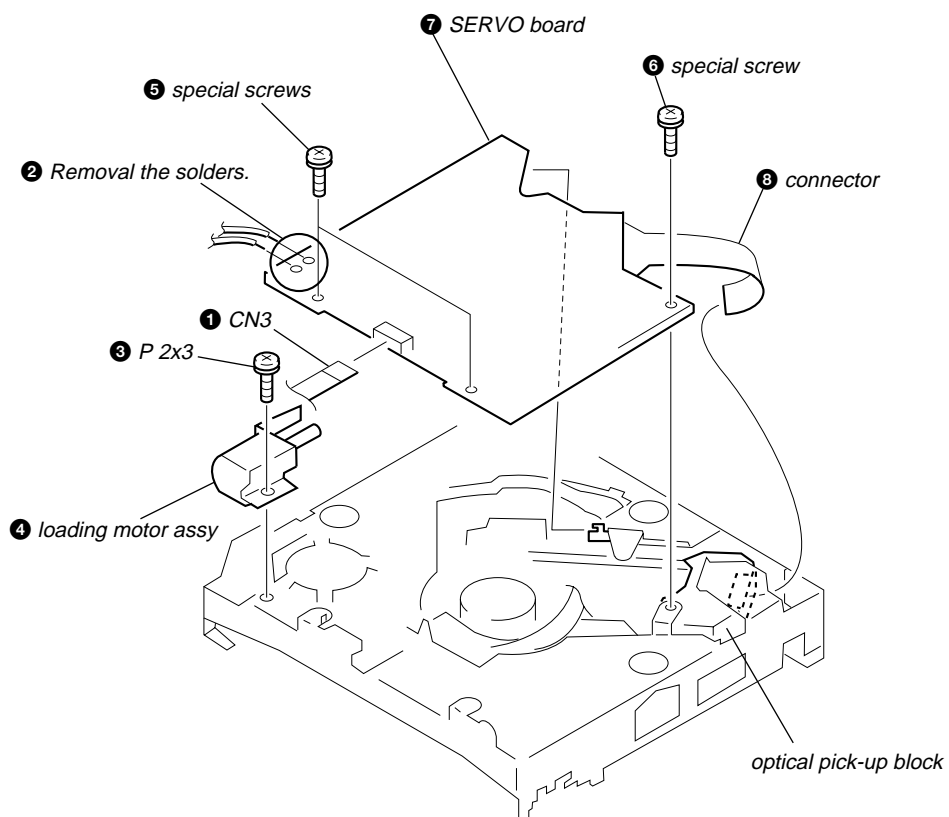
2-5. CHASSIS (T) SUB ASSY



2-6. LEVER SECTION

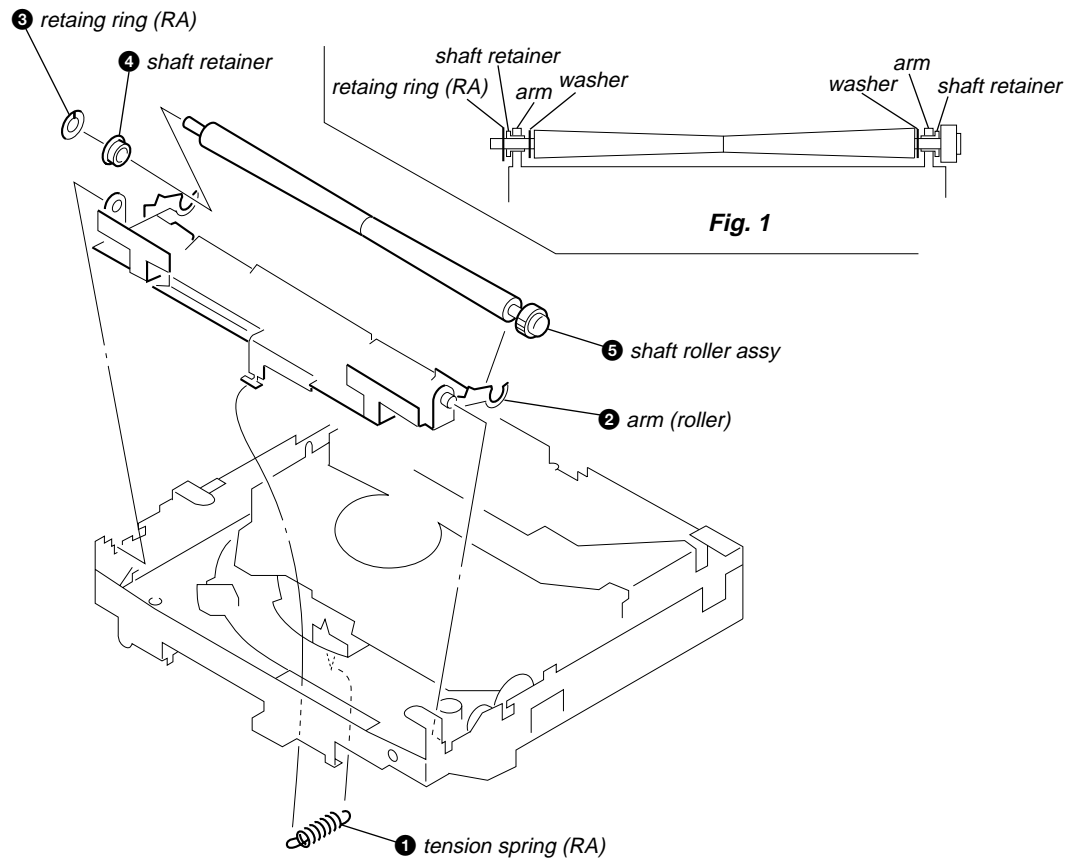


2-7. SERVO BOARD

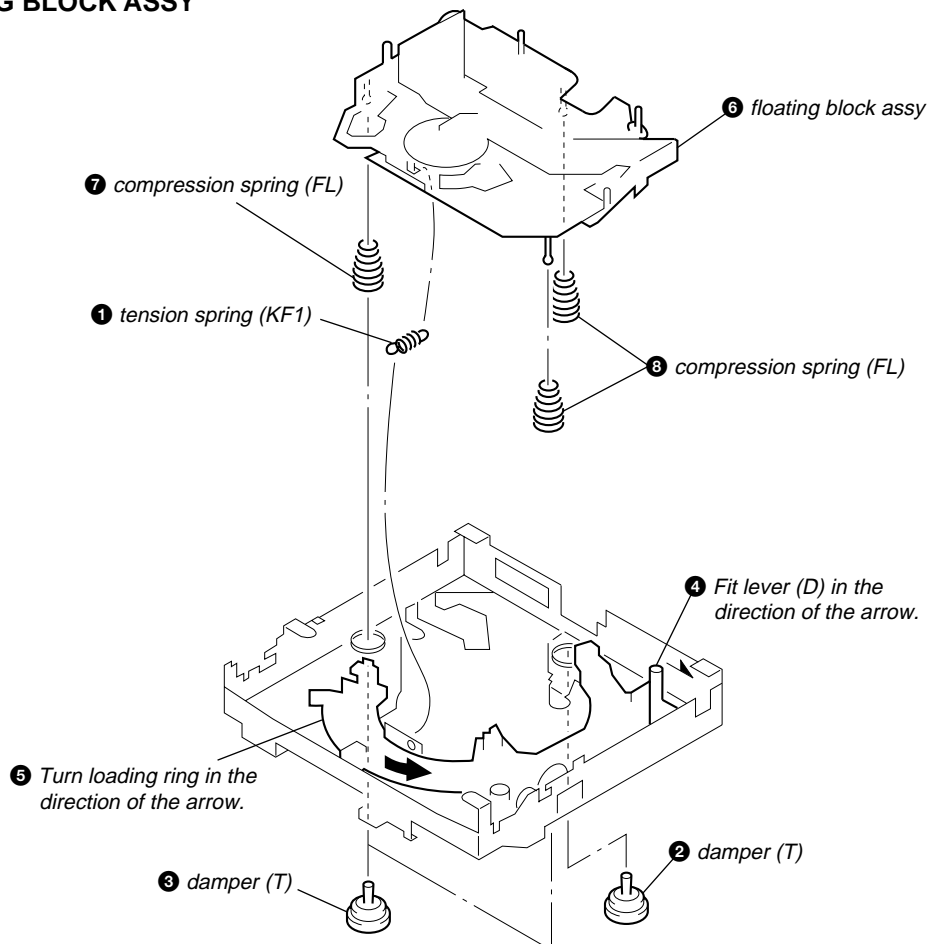


2-8. SHAFT ROLLER ASSY

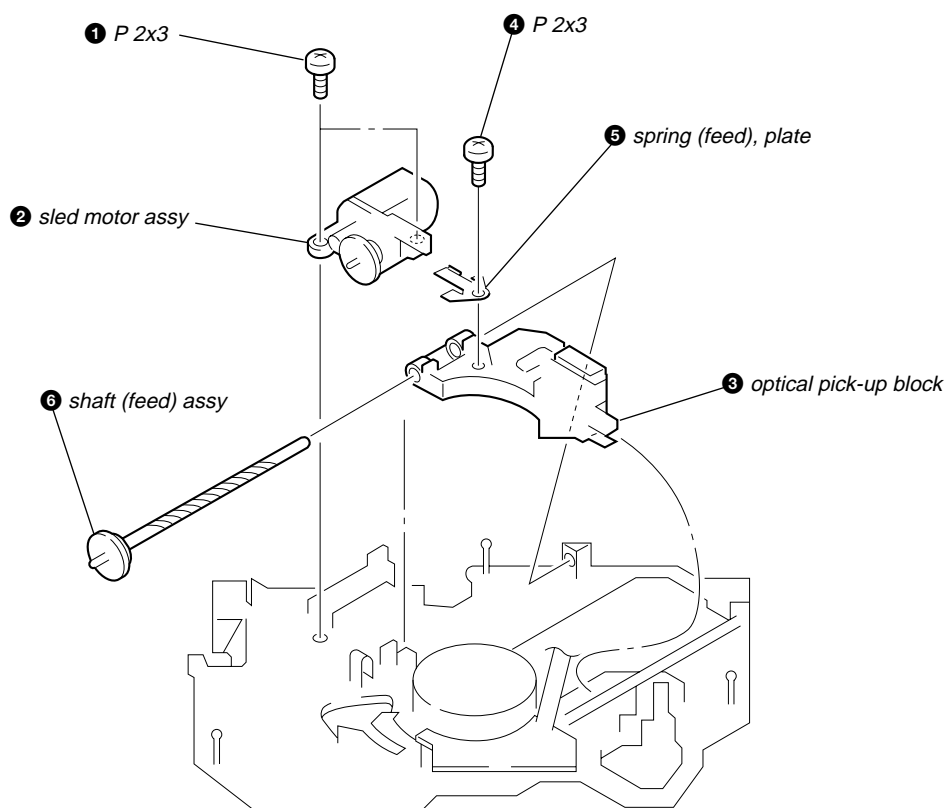
- When installing, take note of the positions arm (roller) and washers. (Fig. 1)



2-9. FLOATING BLOCK ASSY



2-10. OPTICAL PICK-UP BLOCK



SECTION 3 DIAGRAMS

3-1. IC PIN DESCRIPTION

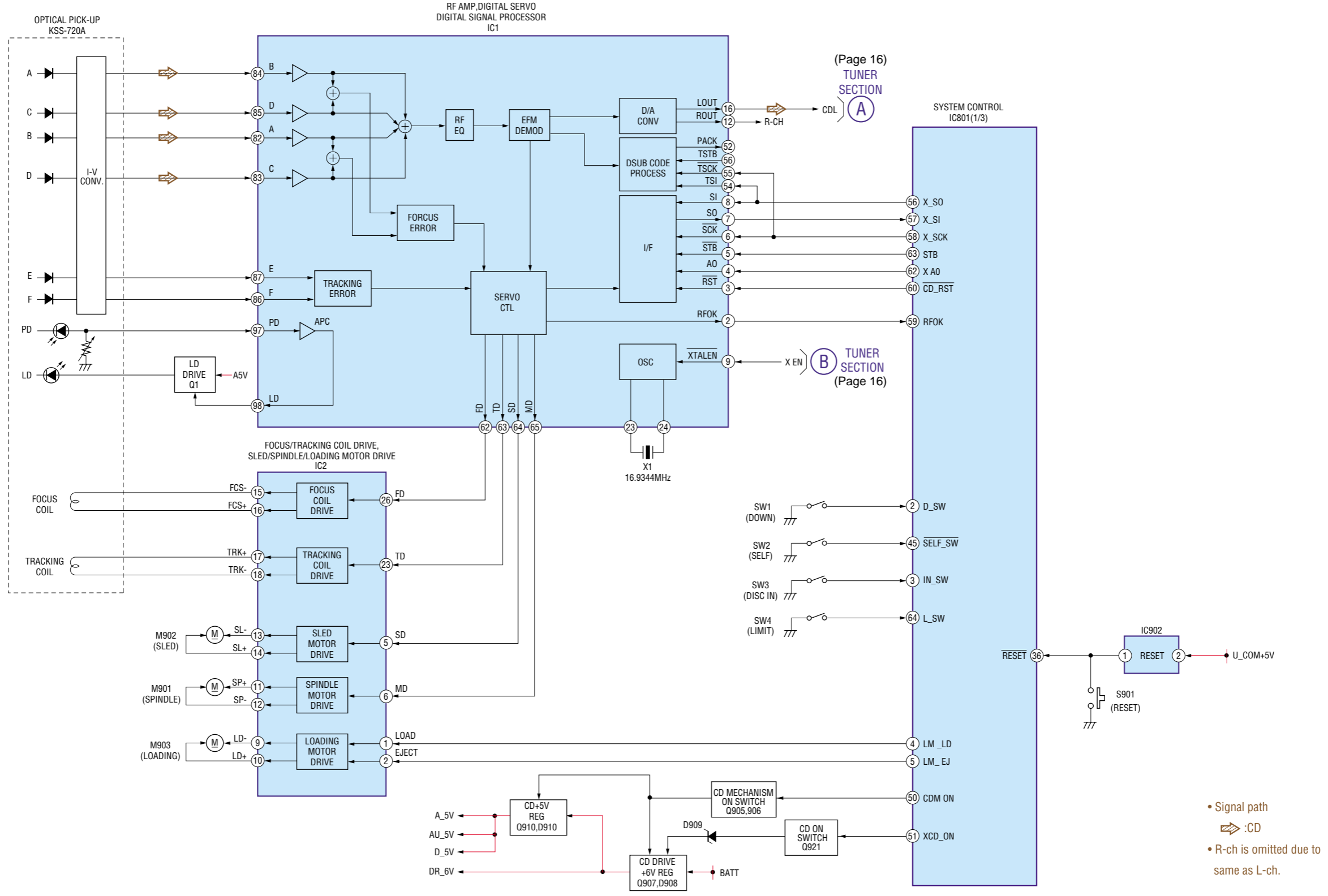
• IC801 μ PD780076GK-520-9ET (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Pin Description
1	PH1	I	PH1 detection input (Not used in this set.)
2	D SW	I	Down switch detection input
3	IN SW/PH2	I	Disc in switch detection input
4	LM LD	O	Loading motor drive output (Loading)
5	LM EJ	O	Loading motor drive output (Eject)
6	ATT	O	Line out mute control output
7	$\overline{\text{A ATT}}$	O	Power amplifier mute control output
8	PLL DI	I	PLL IC data input
9	VSSO	—	Ground pin
10	VDDO	—	Power supply pin (+5 V)
11	PLL CLK	O	PLL IC clock output
12	PLL DO	O	PLL IC data output
13	PLL CE	O	PLL IC chip enable output
14	BEEP	O	BEEP output of key beep, caution alarm
15	L V CE	O	Electric volume, LCD chip enable output
16	L V DO	O	Electric volume, LCD data output
17	L V CLK	O	Electric volume, LCD clock output
18	BUS SI	I	BUS interface serial input
19	BUS SO	O	BUS interface serial output
20	BUS CLK	I	BUS interface serial clock input
21	BUS CK GEN	O	BUS interface serial clock output
22	AM ON	O	Tuner AM power supply control output
23	FM ON	O	Tuner FM power supply control output
24	VDD1	—	Power supply pin (+5 V)
25	AVSS	—	Ground pin
26	ST IND	I	FM stereo detection input
27	PH3	I	PH3 detection input (Not used in this set.)
28	S METER	I	S meter signal input
29	KEY0	I	A/D key input 0
30	KEY1	I	A/D key input 1
31	ROTARY (AD)	I	Not used in this set.
32	DST SEL	I	Destination select input (Connect to ground in this set.)
33	TEST	I	Force test mode input
34	AVREF	—	A/D converter power supply pin (+5 V)
35	LCD INH	O	INHIBIT control output of LCD
36	$\overline{\text{RESET}}$	I	Reset input ("L": reset detection)
37	XT2	O	Sub clock output (32.768 kHz)
38	XT1	I	Sub clock input (32.768 kHz)
39	IC	—	Connect to ground in this set.
40	X2	O	Master clock output (8.38 MHz)
41	X1	I	Master clock input (8.38 MHz)
42	VSS1	—	Ground pin
43	KEY ACK	I	Key acknowledge detection input
44	SIRCS	I	Wireless remote control signal input
45	$\overline{\text{SELF SW}}$	I	Self switch detection input
46	$\overline{\text{BU IN}}$	I	Backup power supply detection input
47	NOSE	I	Front panel attachment detection input
48	ILL ON	O	Illumination power supply control output
49	A REMO	O	External amplifier remote control output
50	CDM ON	O	CD mechanism deck power supply control output
51	XCD ON	O	CD DSP IC 16 MHz X'tal on/off control output

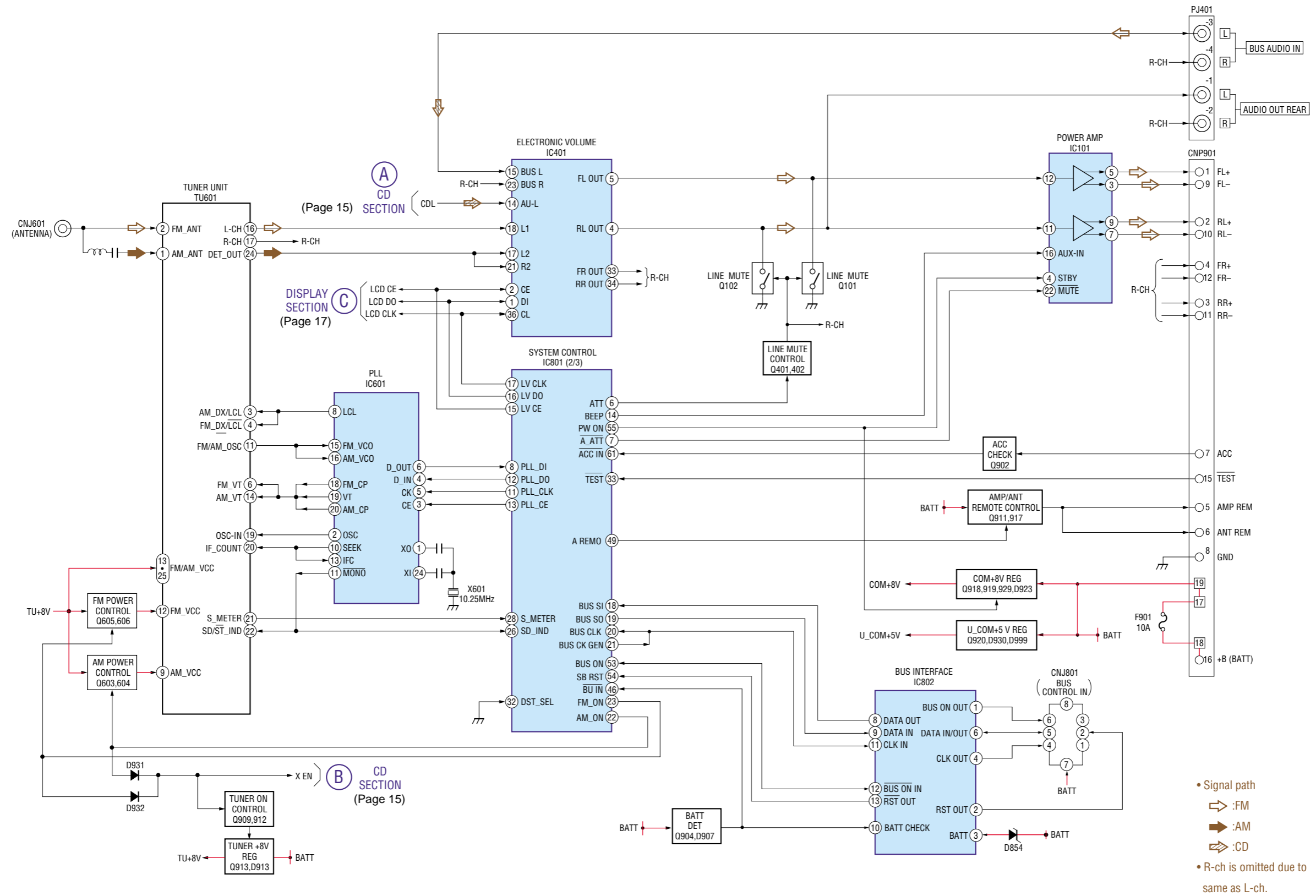
CDX-CA400/CA530X/CA580X

Pin No.	Pin Name	I/O	Pin Description
52	SHIFT	—	Not used in this set.
53	BUS ON	O	Enable output of bus IC
54	SB RST	O	Reset output of bus IC
55	PW ON	O	System power supply control output
56	X SO	O	CD DSP IC serial data output
57	X SI	I	CD DSP IC serial data input
58	X SCK	O	CD DSP IC serial clock output
59	RFOK	I	CD servo IC RFOK signal input
60	$\overline{\text{CD RST}}$	O	CD DSP IC reset control output
61	$\overline{\text{ACC IN}}$	I	Accessory power supply detection input
62	X AO	O	CD servo IC command/parameter discrimination signal output “L”: Command, “H”: Parameter
63	STB	O	CD servo IC data strobe signal output
64	L SW	I	CD sled limit switch detection input

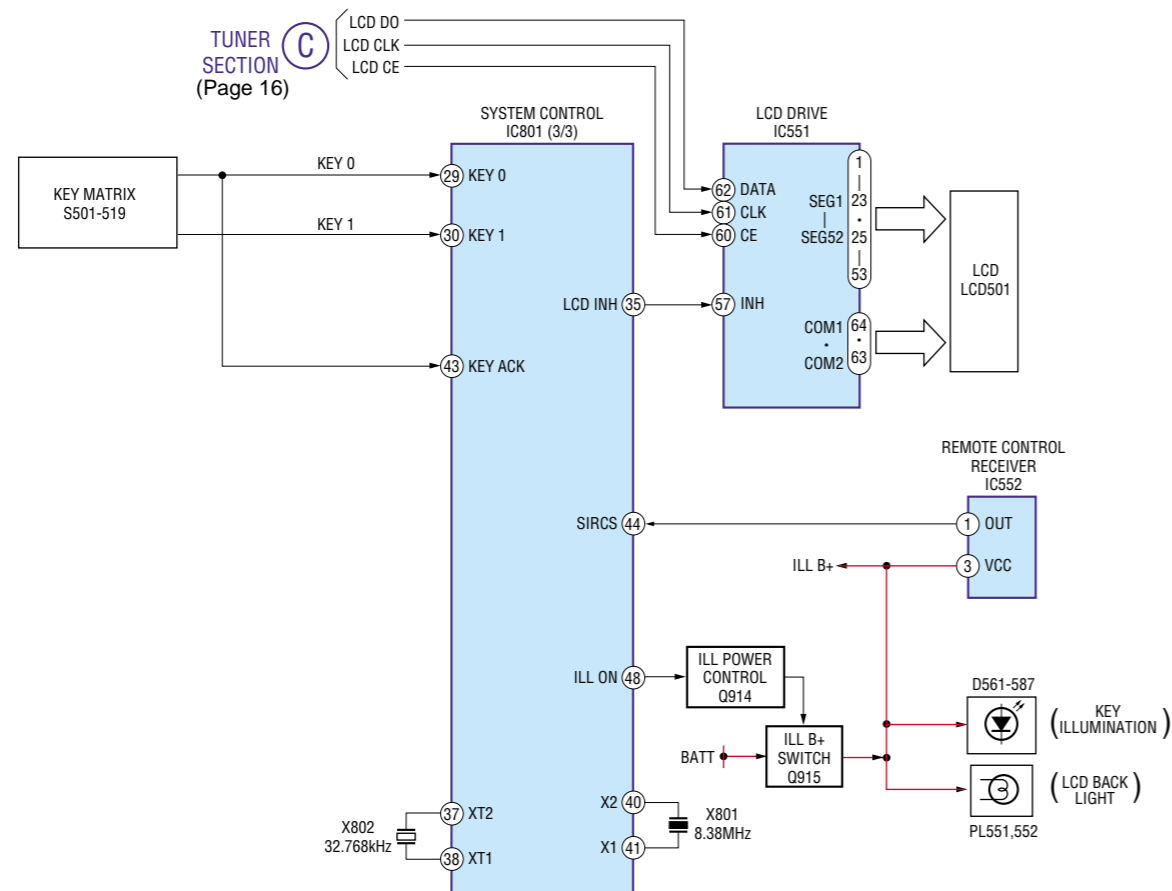
3-2. BLOCK DIAGRAM — CD SECTION —



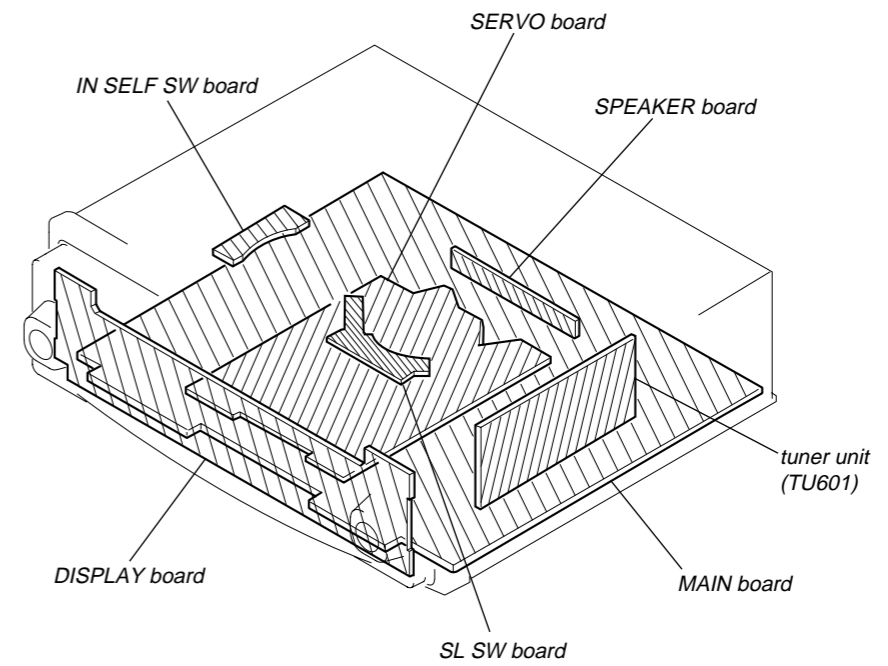
3-3. BLOCK DIAGRAM — TUNER SECTION —



3-4. BLOCK DIAGRAM — DISPLAY SECTION —

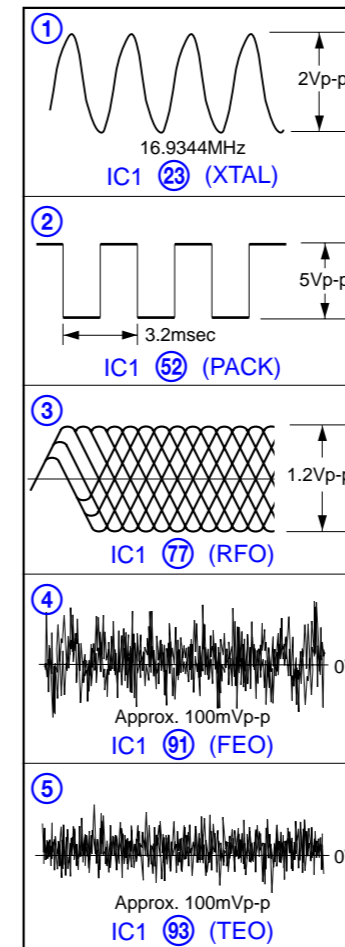


3-5. CIRCUIT BOARDS LOCATION

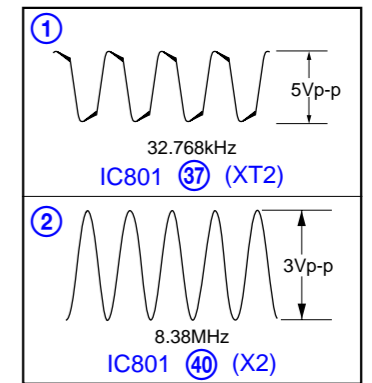


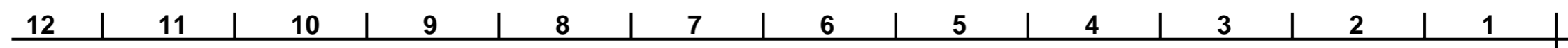
• Waveforms

— Servo Board —
(MODE: CD PLAY)



— Main Board —





THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

for schematic diagram:

- All capacitors are in μF unless otherwise noted. pF: μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{ W}$ or less unless otherwise specified.
- % : indicates tolerance.
- Δ : internal component.
- \square : panel designation.

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

- **—** : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - \Rightarrow : FM
 - \Rightarrow : AM
 - \Rightarrow : CD

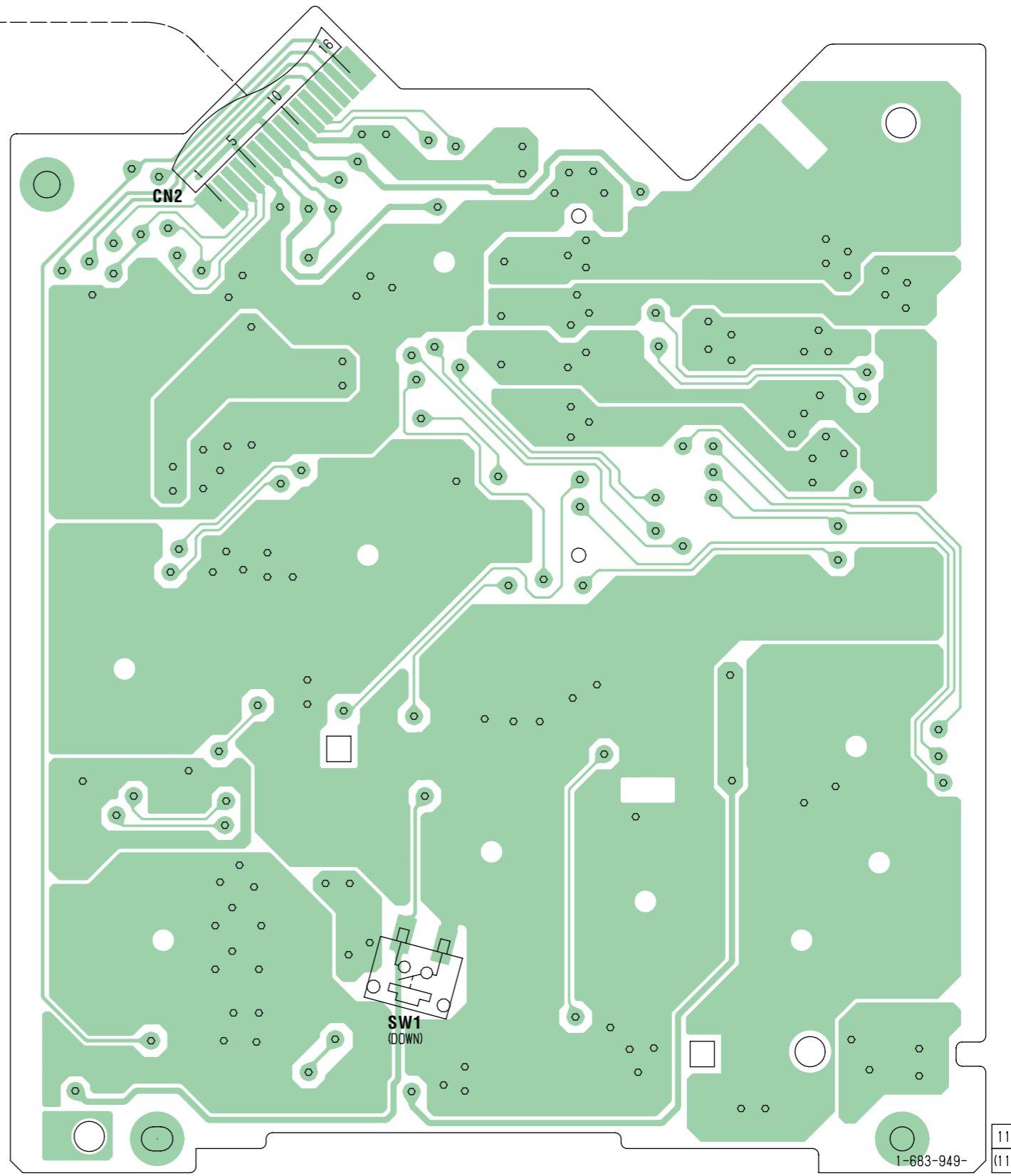
for printed wiring boards:

- \circ : parts extracted from the component side.
- \circ : parts extracted from the conductor side.
- \blacksquare : parts mounted on the conductor side.
- \circ : Through hole.
- \square : Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

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

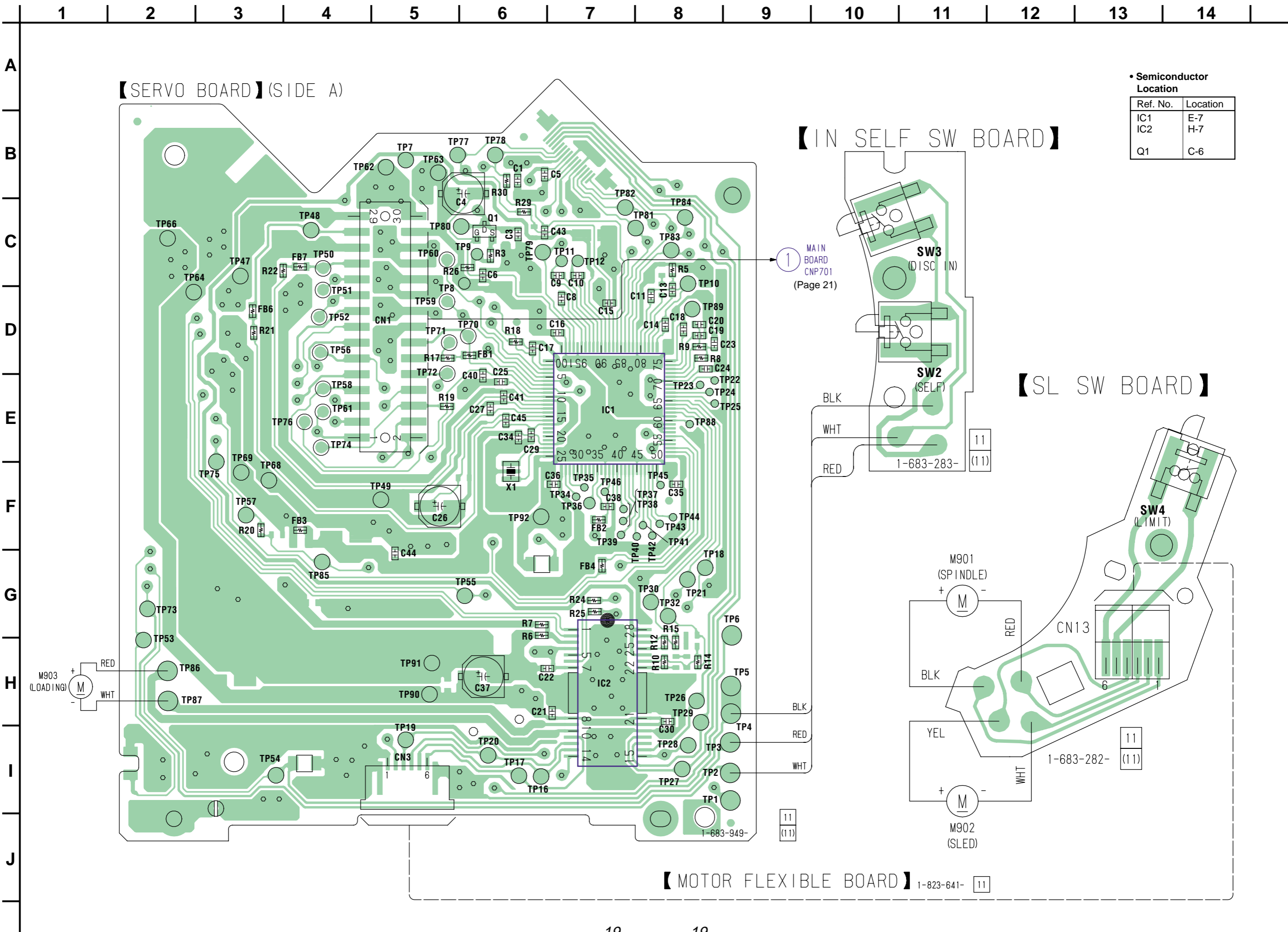
OPTICAL PICK-UP KSS-720A
 1-683-284-11

PICK-UP FLEXIBLE BOARD **SERVO BOARD** (SIDE B)



1-683-949-11 (11)

A
B
C
D
E
F
G
H
I
J



• Semiconductor Location

Ref. No.	Location
IC1	E-7
IC2	H-7
Q1	C-6

【SERVO BOARD】(SIDE A)

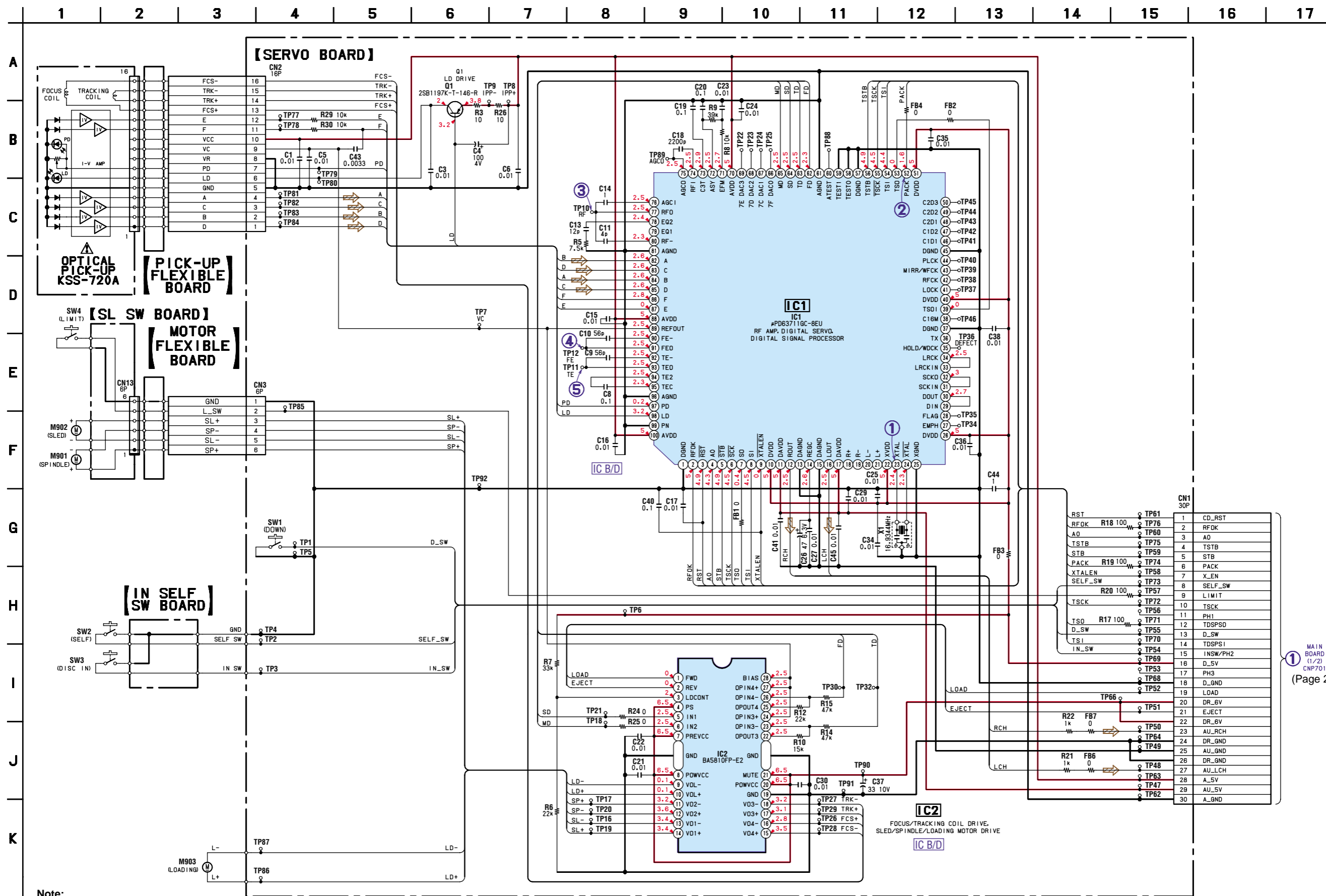
【IN SELF SW BOARD】

【SL SW BOARD】

【MOTOR FLEXIBLE BOARD】 1-823-641- [11]

• Refer to page 17 for Waveforms.

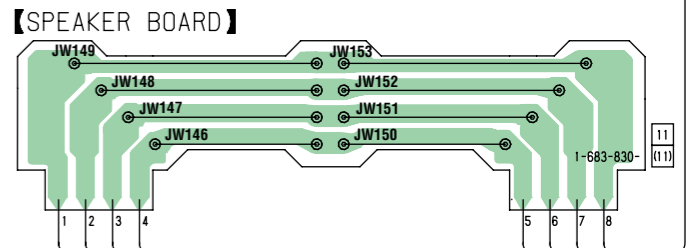
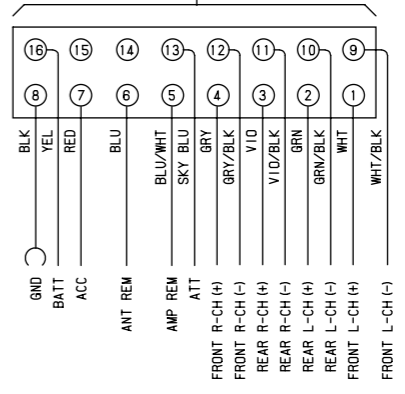
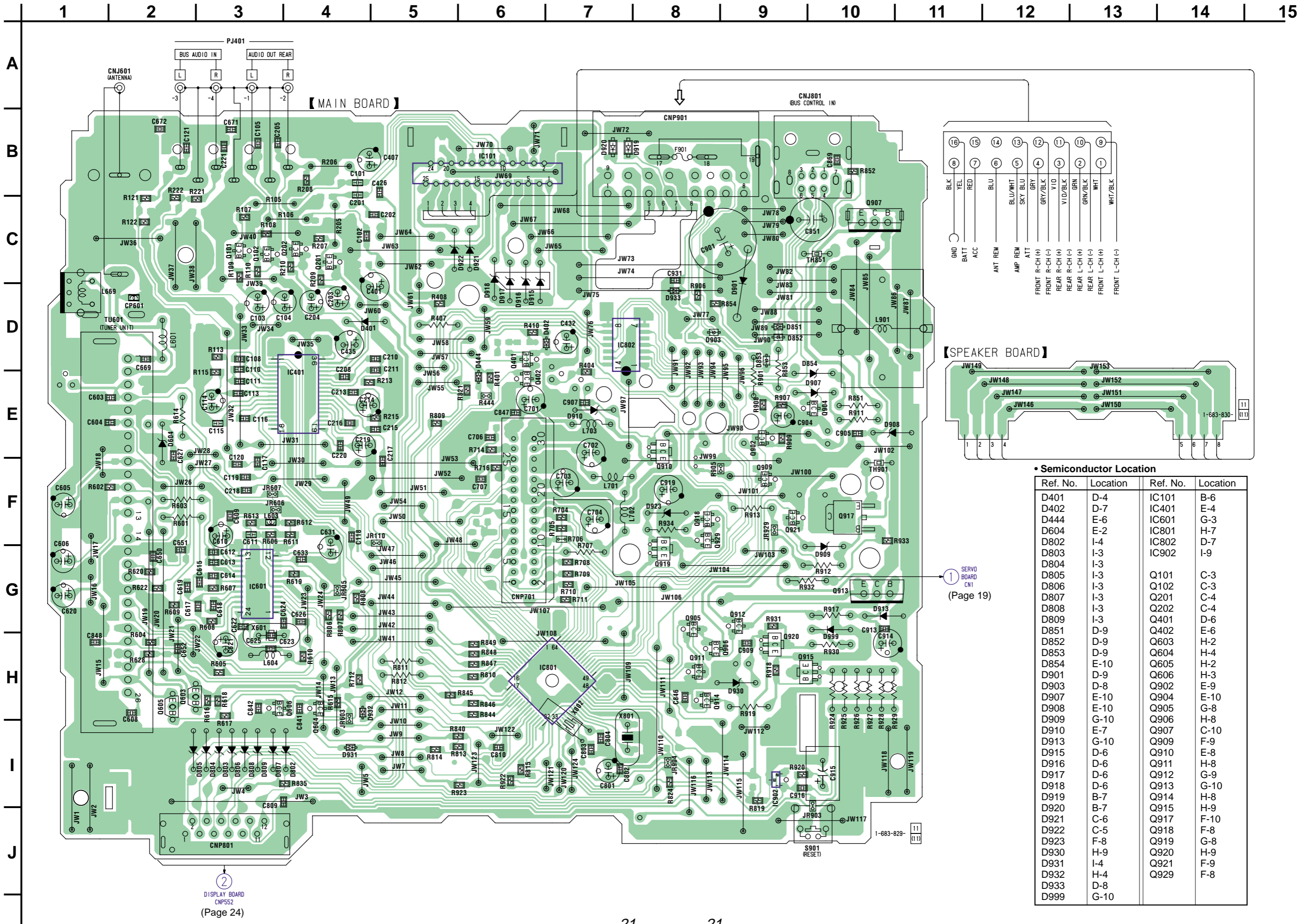
3-7. SCHEMATIC DIAGRAM — CD MECHANISM SECTION — • Refer to page 26 for IC Block Diagrams.



Note:
 • Voltage is dc with respect to ground under no-signal conditions.
 no mark : CD PLAY

1 MAIN BOARD (1/2) CNP701 (Page 22)

3-8. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 17 for Circuit Boards Location.



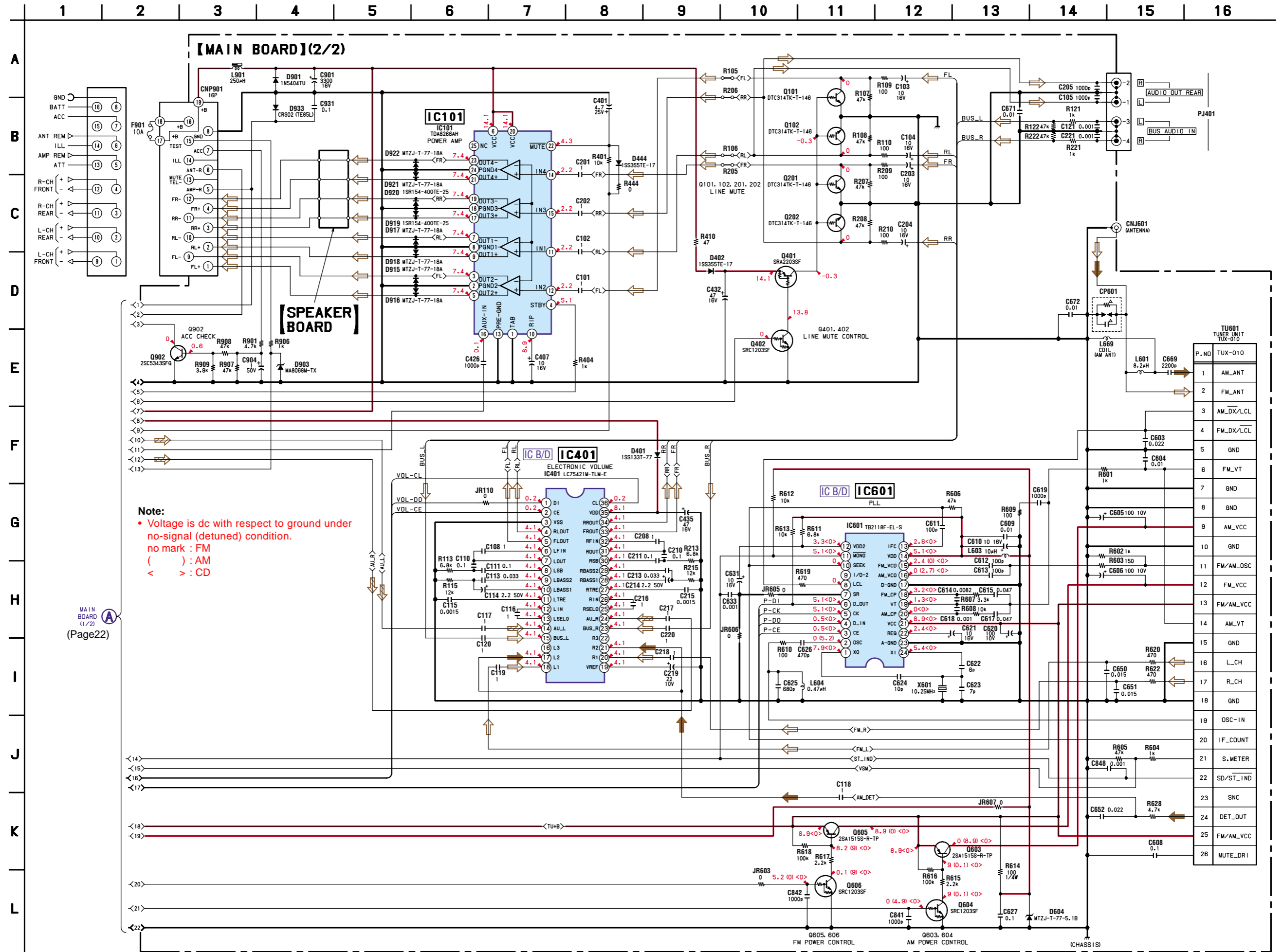
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D401	D-4	IC101	B-6
D402	D-7	IC401	E-4
D444	E-6	IC601	G-3
D604	E-2	IC801	H-7
D802	I-4	IC802	D-7
D803	I-3	IC902	I-9
D804	I-3		
D805	I-3	Q101	C-3
D806	I-3	Q102	C-3
D807	I-3	Q201	C-4
D808	I-3	Q202	C-4
D809	I-3	Q401	D-6
D851	D-9	Q402	E-6
D852	D-9	Q603	H-2
D853	D-9	Q604	H-4
D854	E-10	Q605	H-2
D901	D-9	Q606	H-3
D903	D-8	Q902	E-9
D907	E-10	Q904	E-10
D908	E-10	Q905	G-8
D909	G-10	Q906	H-8
D910	E-7	Q907	C-10
D913	G-10	Q909	F-9
D915	D-6	Q910	E-8
D916	D-6	Q911	H-8
D917	D-6	Q912	G-9
D918	D-6	Q913	G-10
D919	B-7	Q914	H-8
D920	B-7	Q915	H-9
D921	C-6	Q917	F-10
D922	C-5	Q918	F-8
D923	F-8	Q919	G-8
D930	H-9	Q920	H-9
D931	I-4	Q921	F-9
D932	D-8		
D933	D-8		
D999	G-10		

1 SERVO BOARD CN1 (Page 19)

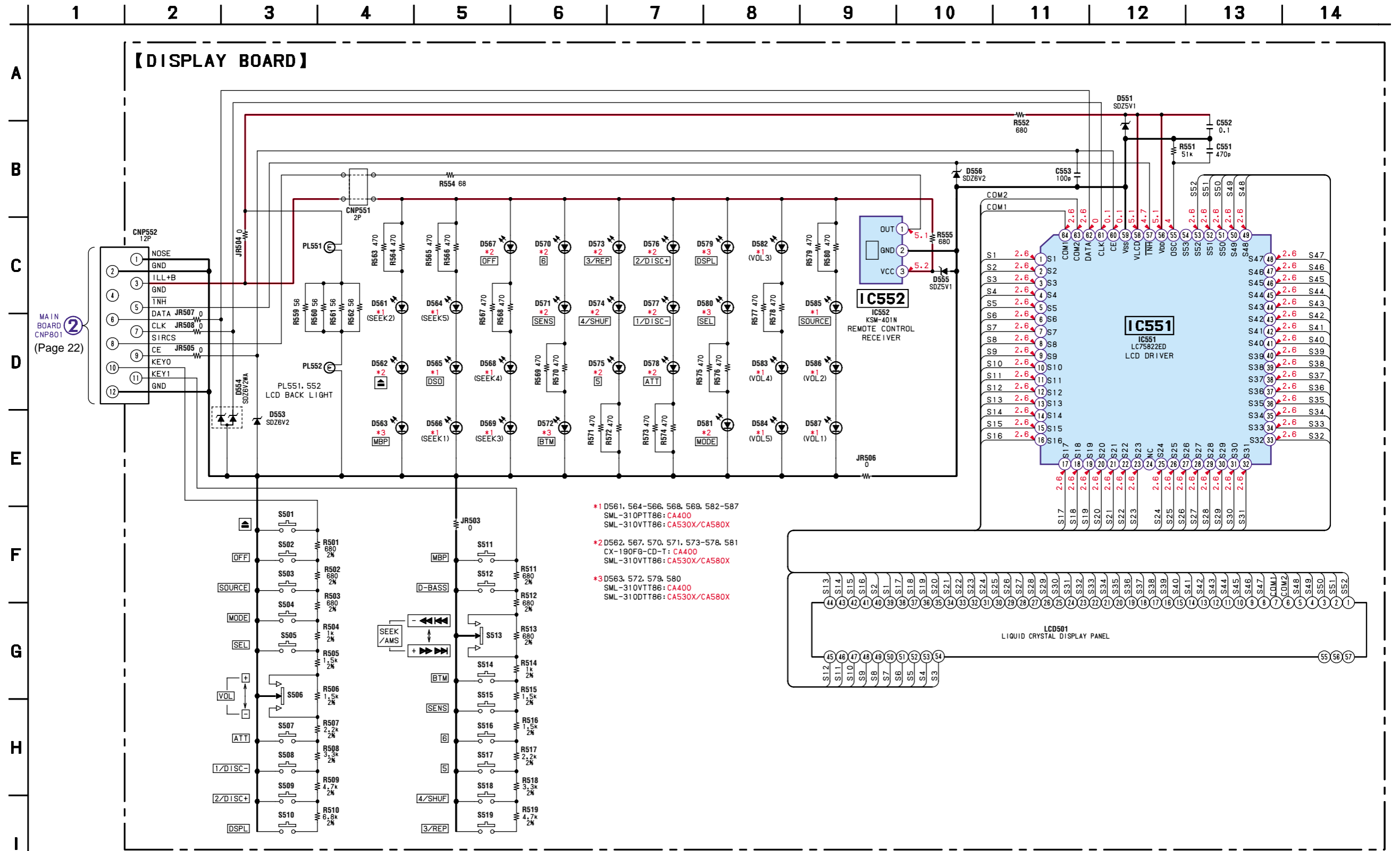
2 DISPLAY BOARD CNP552 (Page 24)

3-10. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 26 for IC Block Diagrams.



MAIN BOARD (1/2) (Page 22)

3-12. SCHEMATIC DIAGRAM — DISPLAY SECTION —

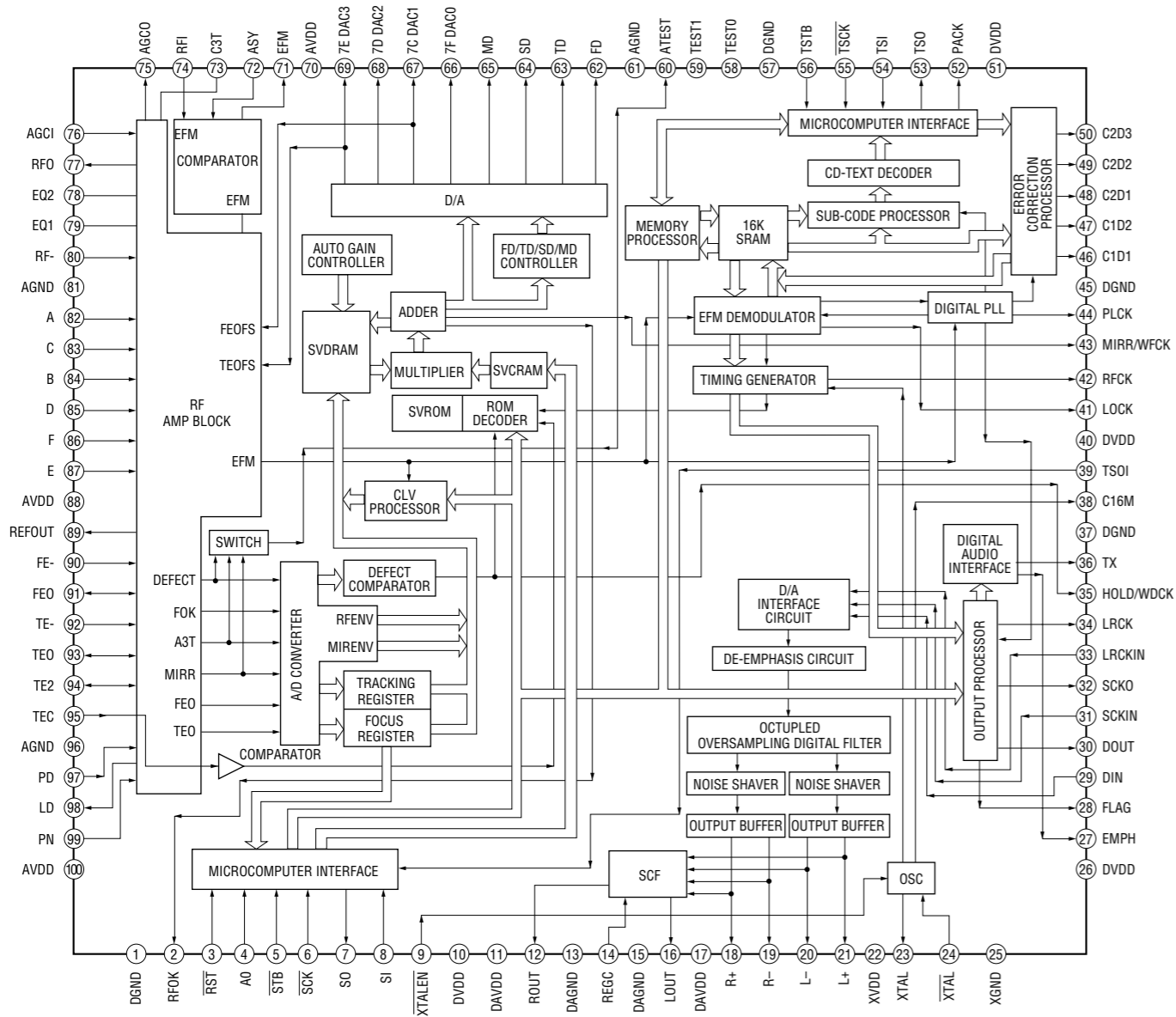


Note:

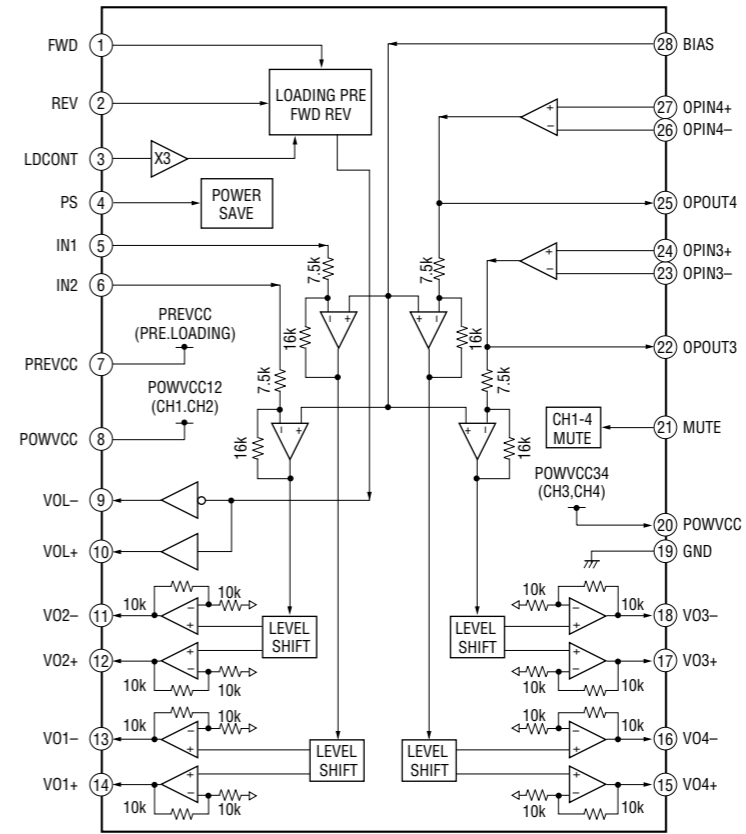
- Voltage is dc with respect to ground under no-signal (detuned) condition.
no mark : FM

• IC BLOCK DIAGRAMS

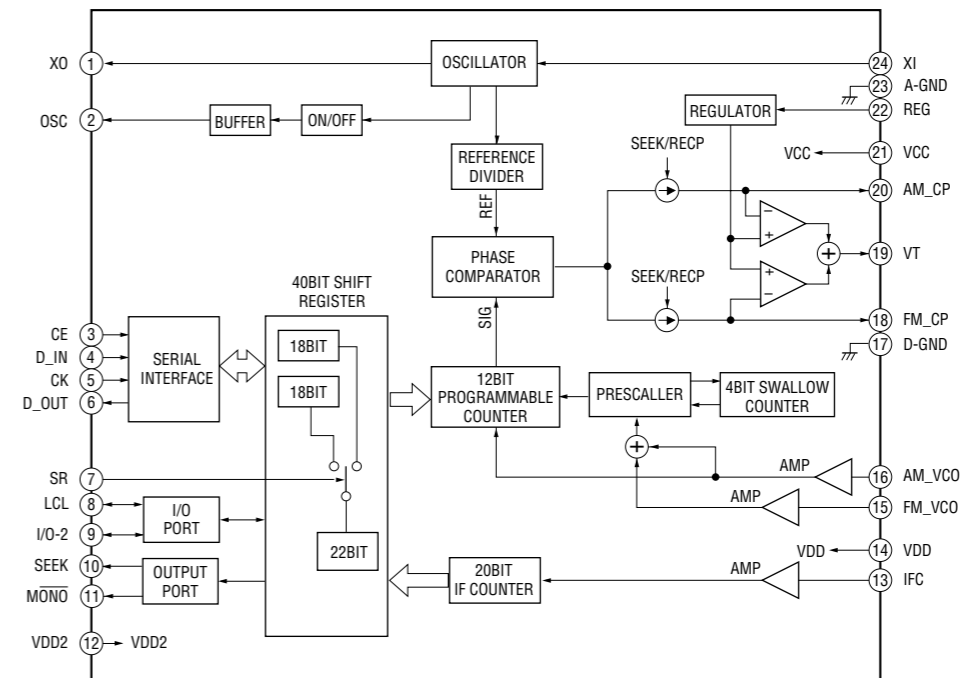
IC1 μ PD63711GC-8EU



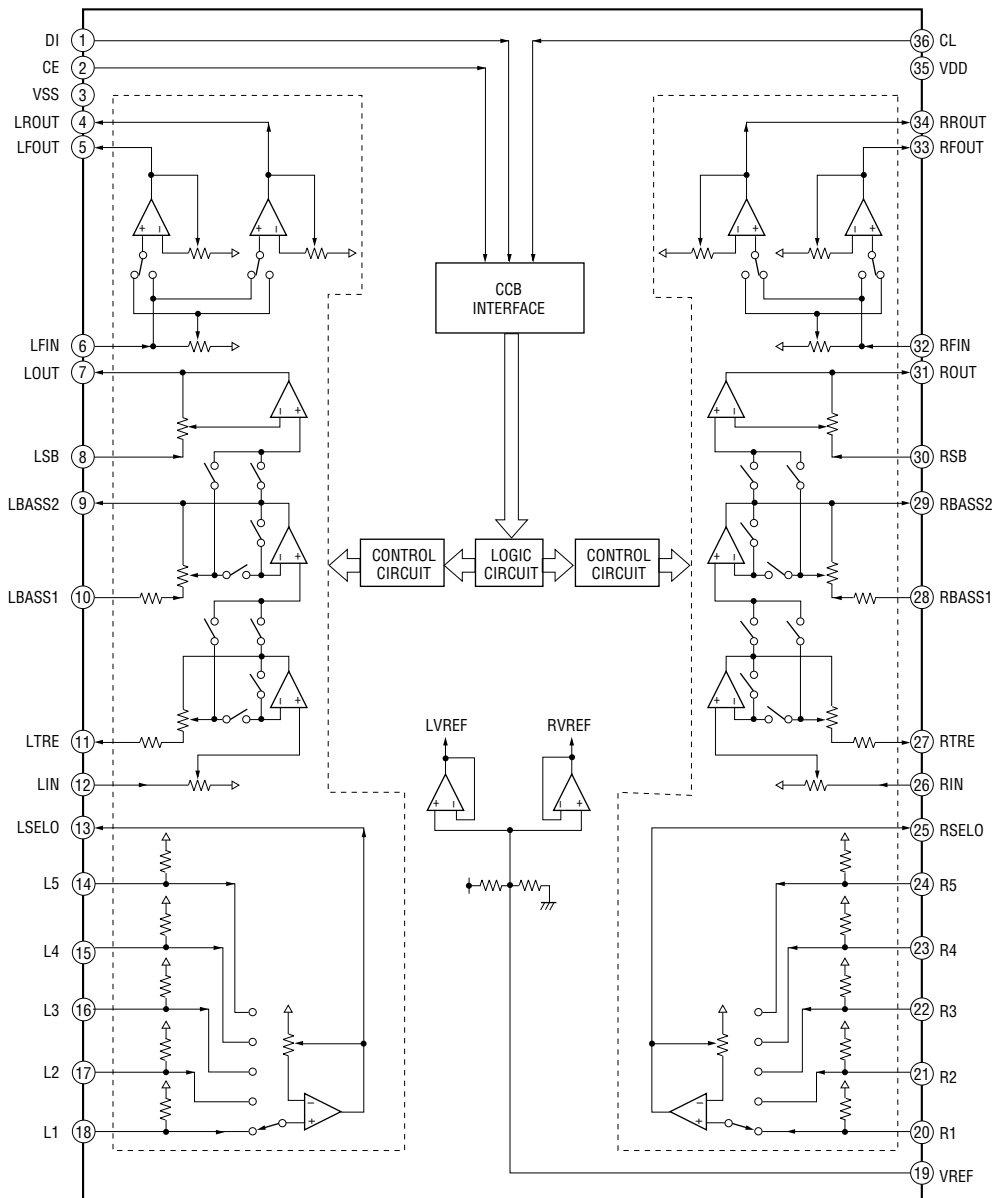
IC2 BA5810FP-E2



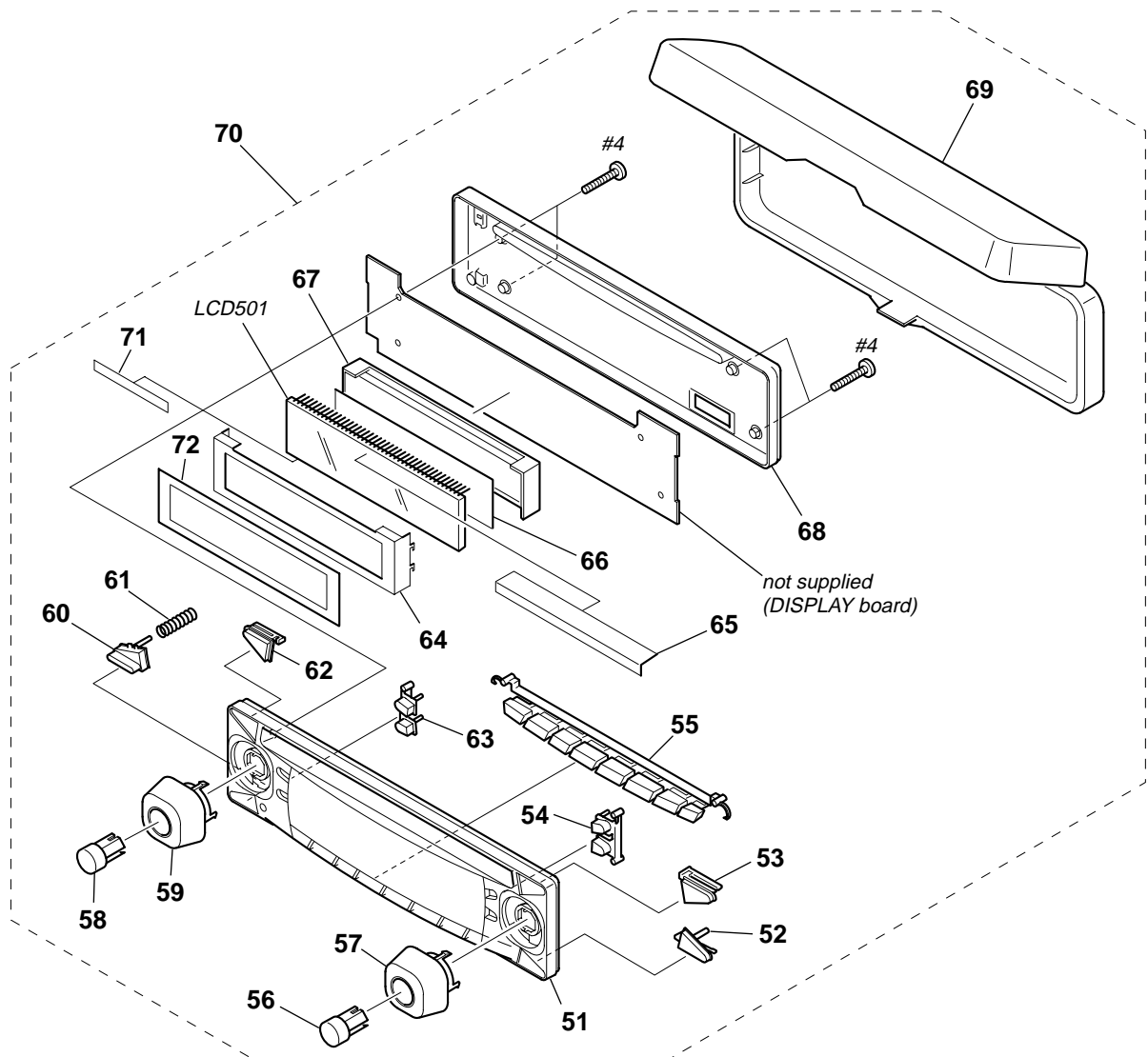
IC601 TB2118F-EL-S



IC401 LC75421M-TLM-E

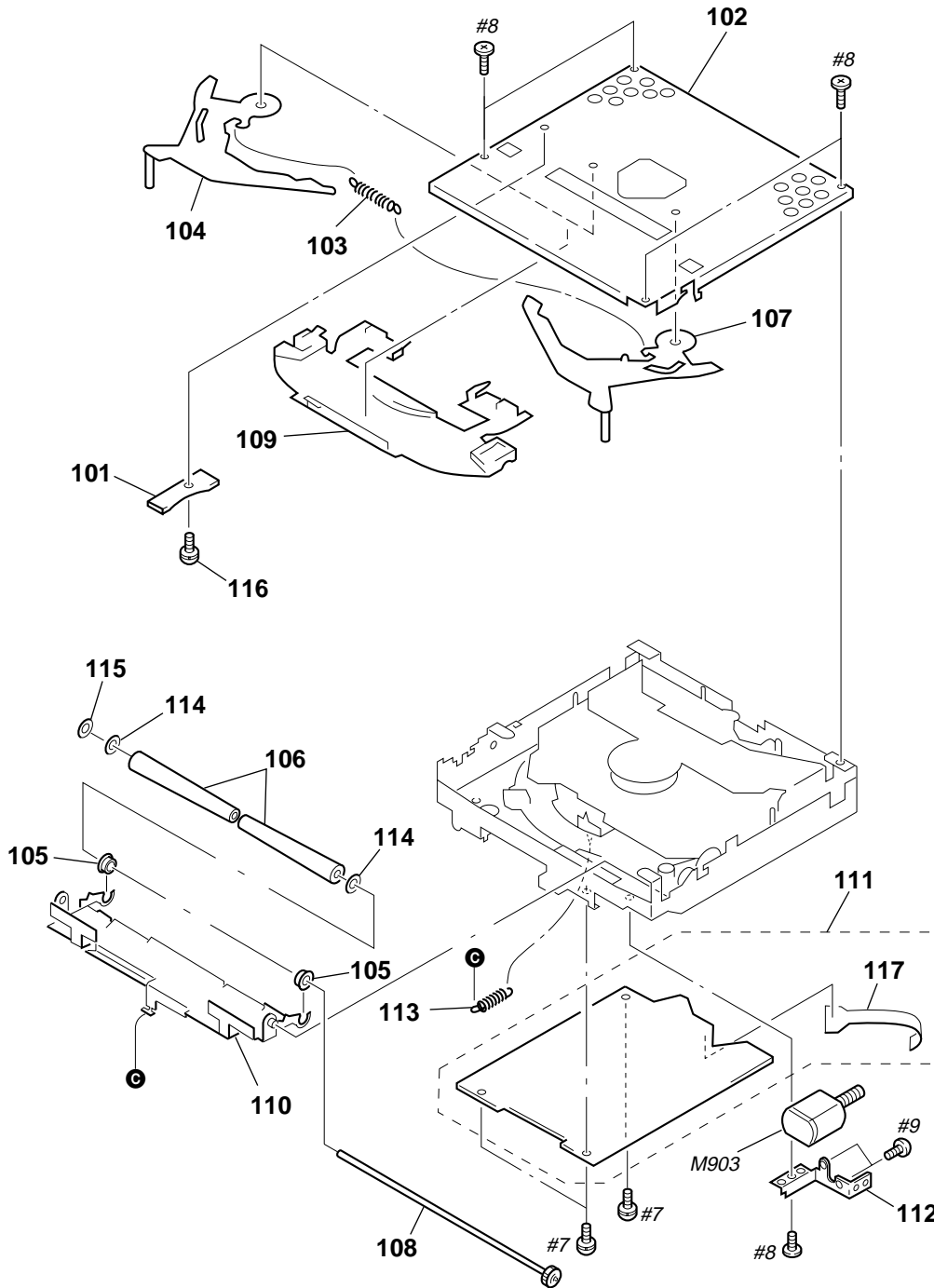


4-2. FRONT PANEL SECTION



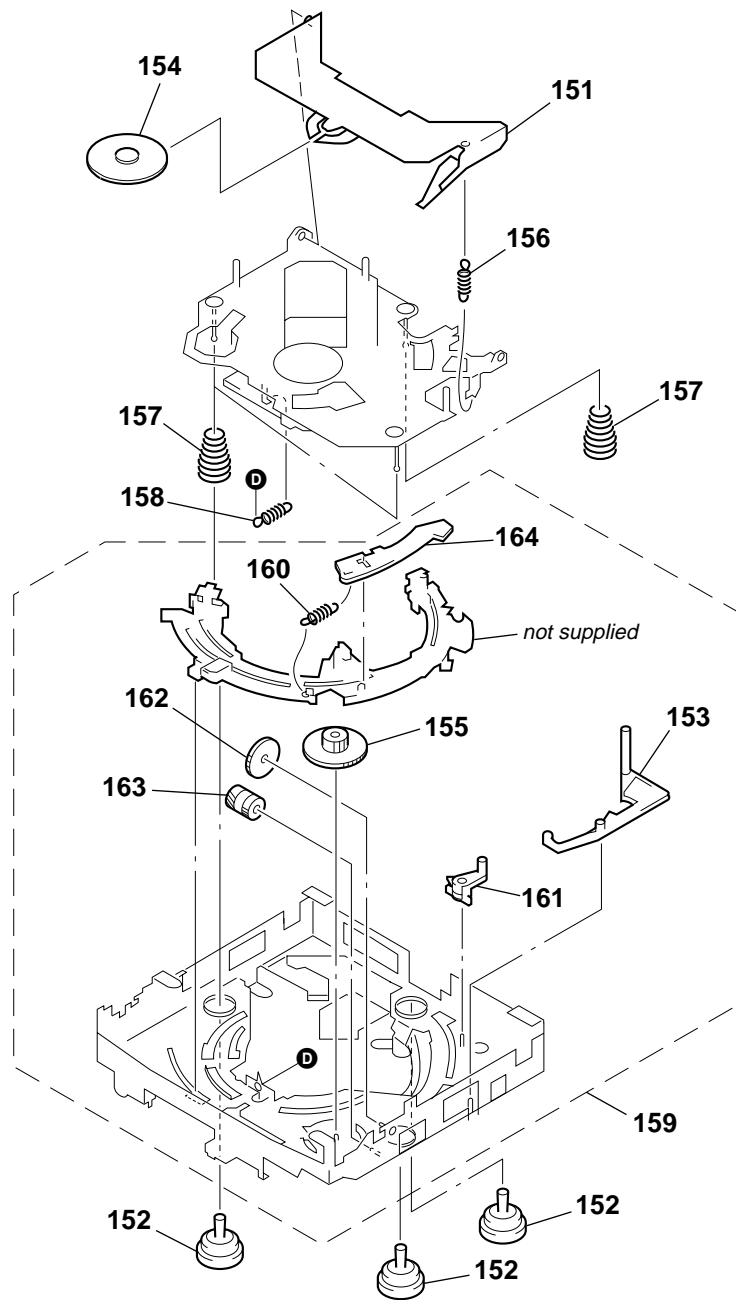
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3381-640-1	PANEL (S) ASSY, FRONT (CA400)		63	3-236-906-01	BUTTON (SEL)	
51	X-3381-641-1	PANEL (S) ASSY, FRONT (CA530X)		64	3-236-921-01	PLATE (LCD), GROUND	
51	X-3381-642-1	PANEL (S) ASSY, FRONT (CA580X)		* 65	3-229-751-01	SHEET (LCD,UP)	
52	3-236-909-01	BUTTON (OFF)		66	3-236-920-01	SHEET (LCD), DIFFUSION	
53	3-236-912-01	BUTTON (EJECT)		67	X-3381-357-1	HOLDER (LCD) ASSY	
54	3-236-908-01	BUTTON (MBP)		68	3-236-902-01	PANEL, FRONT BACK	
55	3-236-910-01	BUTTON (1-6)		69	X-3380-054-2	CASE ASSY (for FRONT PANEL)	
56	3-236-905-01	BUTTON (D-BASS)		70	A-3337-073-A	PANEL COMPLETE ASSY, FRONT (CA400)	
57	X-3381-356-1	RING (SEEK) ASSY		70	A-3337-074-A	PANEL COMPLETE ASSY, FRONT (CA530X)	
58	3-236-904-01	BUTTON (SOURCE)		70	A-3337-075-A	PANEL COMPLETE ASSY, FRONT (CA580X)	
59	X-3381-355-1	RING (VOL) ASSY		* 71	3-227-293-01	SHEET (LCD)	
60	3-236-911-01	BUTTON (RELEASE)		72	3-236-926-01	CUSHION (LCD)	
61	3-229-774-01	SPRING (RELEASE)		LCD501	1-804-626-11	DISPLAY PANEL, LIQUID CRYSTAL	
62	3-236-907-01	BUTTON (MODE)		#4	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	

4-3. CD MECHANISM SECTION (1)
(MG-393XA-121//K)



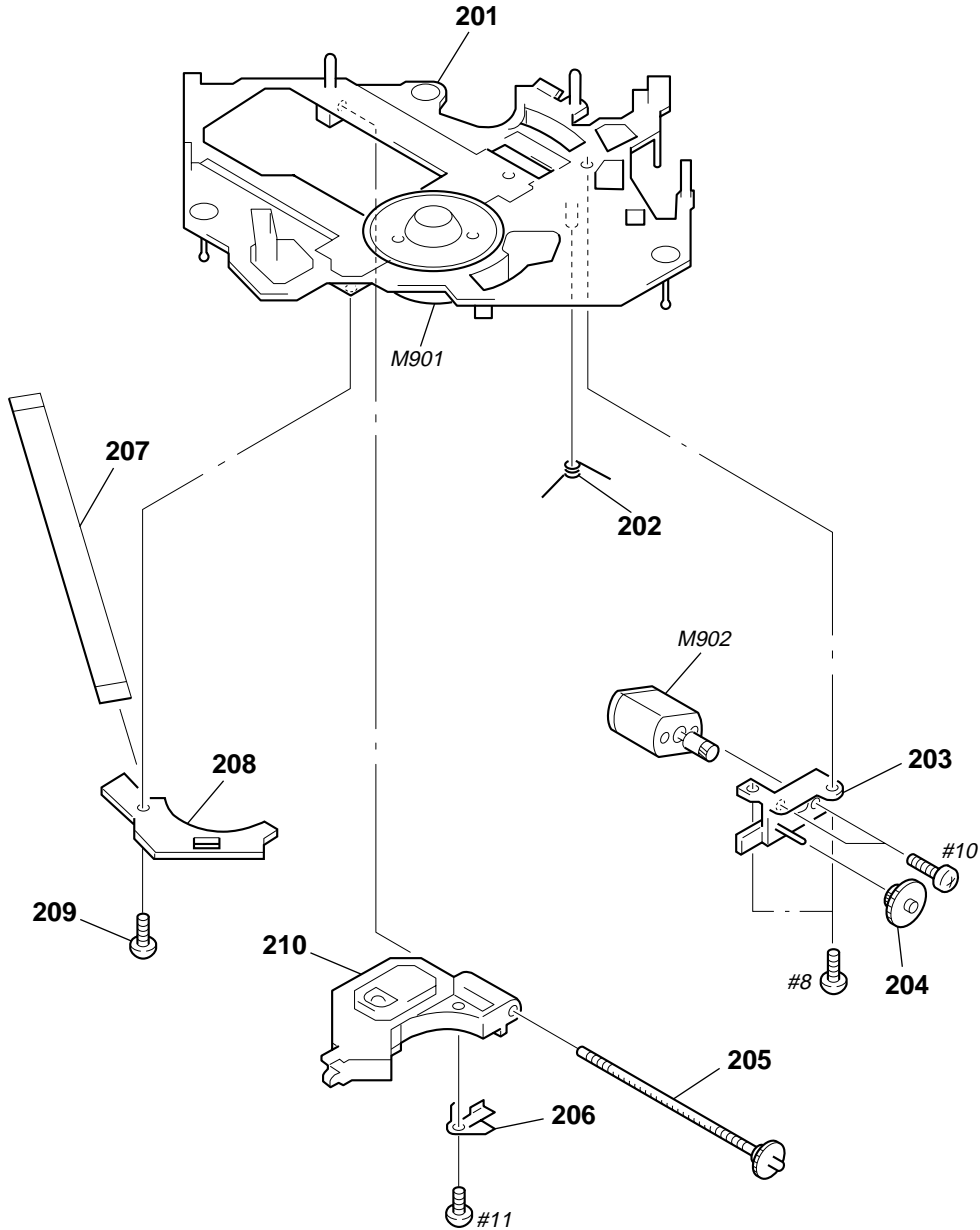
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	1-683-283-11	IN SELF SW BOARD		112	3-221-779-01	BRACKET (MOTOR)	
102	3-040-039-02	CHASSIS (T)		113	3-040-034-01	SPRING (RA), TENSION	
103	3-040-038-01	SPRING (LR), TENSION		114	3-040-042-01	WASHER	
104	3-040-050-01	LEVER (L)		115	3-043-880-01	RING (RA), RETAINING	
105	3-040-022-01	RETAINER (ROLLER), SHAFT		116	3-044-206-11	SCREW, SPECIAL	
106	3-040-044-01	ROLLER (S)		117	1-683-284-11	FLEXIBLE BOARD	
107	3-040-067-01	LEVER (R)		M903	A-3315-039-A	MOTOR SUB ASSY, LO (LOADING)	
108	A-3301-980-A	SHAFT ROLLER ASSY		#7	7-628-253-00	SCREW, SPECIAL	
109	3-040-037-01	GUIDE (DISC)		#8	7-627-553-37	SCREW, PRECISION +P 2X3 TYPE3	
110	3-040-040-02	ARM (ROLLER)		#9	7-627-553-17	SCREW, PRECISION +P 2X2 TYPE3	
111	A-3283-233-A	SERVO BOARD, COMPLETE					

4-4. CD MECHANISM SECTION (2)
(MG-393XA-121//K)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	3-040-025-01	ARM, CHUCKING		158	3-040-033-01	SPRING (KF1), TENSION	
152	3-040-031-01	DAMPER (T)		159	A-3307-422-A	CHASSIS (M) COMPLETE ASSY	
153	3-040-056-01	LEVER (D)		160	3-040-059-01	SPRING (TR), TENSION	
154	3-040-024-01	RETAINER (DISC)		161	3-040-057-01	LEVER (LOCK)	
155	3-040-054-01	WHEEL (LW), WORM		162	3-040-058-01	GEAR (MDL)	
156	3-040-026-01	SPRING (CH), TENSION		163	3-040-052-01	WHEEL (U), WORM	
157	3-040-032-01	SPRING (FL), COMPRESSION		164	3-040-051-02	LEVER (TR)	

4-5. CD MECHANISM SECTION (3)
(MG-393XA-121//K)



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	X-3378-480-1	CHASSIS (OP) ASSY (including M901)		208	1-683-282-11	SL SW BOARD	
202	3-040-029-01	SPRING (SL), TORSION		209	3-909-607-01	SCREW	
203	3-040-045-01	BASE (DRIVING)		\triangle 210	8-820-103-11	PICK-UP, OPTICAL KSS-720A/C-RP	
204	3-040-194-01	GEAR (MIDWAY)		M902	A-3301-985-A	MOTOR ASSY, SLED (SLED)	
205	A-3301-983-A	SHAFT (FEED) ASSY		#8	7-627-553-37	SCREW, PRECISION +P 2X3 TYPE3	
206	3-040-030-01	SPRING (FEED), PLATE		#10	7-627-850-28	SCREW, PRECISION +P 1.4X3	
207	1-823-641-11	CABLE, FLEXIBLE FLAT (6 CORE)		#11	7-685-780-01	SCREW +PTT 2X3 (S)	

SECTION 5
ELECTRICAL PARTS LIST

DISPLAY

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u : μ , for example:
uA.. : μ A.. uPA.. : μ PA..
uPB.. : μ PB.. uPC.. : μ PC.. uPD.. : μ PD..
- CAPACITORS
uF : μ F
- COILS
uH : μ H

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

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		DISPLAY BOARD *****		D569	8-719-078-21	LED SML-310PTT86 (SEEK3) (CA400)	
				D570	8-719-038-05	LED CL-190FG-CD-T (6) (CA400)	
*	3-227-293-01	SHEET (LCD)		D570	8-719-053-09	LED SML-310VTT86 (6) (CA530X/CA580X)	
*	3-229-751-01	SHEET (LCD,UP)		D571	8-719-038-05	LED CL-190FG-CD-T (SENS) (CA400)	
	3-236-920-01	SHEET (LCD), DIFFUSION		D571	8-719-053-09	LED SML-310VTT86 (SENS) (CA530X/CA580X)	
	3-236-921-01	PLATE (LCD), GROUND					
	X-3381-357-1	HOLDER (LCD) ASSY		D572	8-719-053-08	LED SML-310DTT86 (BTM) (CA530X/CA580X)	
		< CAPACITOR >		D572	8-719-053-09	LED SML-310VTT86 (BTM) (CA400)	
C551	1-164-315-11	CERAMIC CHIP 470PF 5% 50V		D573	8-719-038-05	LED CL-190FG-CD-T (3/REP) (CA400)	
C552	1-164-156-11	CERAMIC CHIP 0.1uF 25V		D573	8-719-053-09	LED SML-310VTT86 (3/REP) (CA530X/CA580X)	
C553	1-162-927-11	CERAMIC CHIP 100PF 5% 50V		D574	8-719-038-05	LED CL-190FG-CD-T (4/SHUF) (CA400)	
		< CONNECTOR >		D574	8-719-053-09	LED SML-310VTT86 (4/SHUF) (CA530X/CA580X)	
* CNP551	1-779-131-11	PIN, CONNECTOR 2P		D575	8-719-038-05	LED CL-190FG-CD-T (5) (CA400)	
CNP552	1-794-312-21	PIN, CONNECTOR 12P		D575	8-719-053-09	LED SML-310VTT86 (5) (CA530X/CA580X)	
		< DIODE >		D576	8-719-038-05	LED CL-190FG-CD-T (2/DISC +) (CA400)	
D551	8-719-073-15	DIODE SDZ5V1		D576	8-719-053-09	LED SML-310VTT86 (2/DISC +) (CA530X/CA580X)	
D553	8-719-067-70	DIODE SDZ6V2		D577	8-719-038-05	LED CL-190FG-CD-T (1/DISC -) (CA400)	
D554	8-719-068-68	DIODE SDZ6V2WA		D577	8-719-053-09	LED SML-310VTT86 (1/DISC -) (CA530X/CA580X)	
D555	8-719-073-15	DIODE SDZ5V1		D578	8-719-038-05	LED CL-190FG-CD-T (ATT) (CA400)	
D556	8-719-067-70	DIODE SDZ6V2		D578	8-719-053-09	LED SML-310VTT86 (ATT) (CA530X/CA580X)	
D561	8-719-053-09	LED SML-310VTT86 (SEEK2) (CA530X/CA580X)		D579	8-719-053-08	LED SML-310DTT86 (DSPL) (CA530X/CA580X)	
D561	8-719-078-21	LED SML-310PTT86 (SEEK2) (CA400)		D579	8-719-053-09	LED SML-310VTT86 (DSPL) (CA400)	
D562	8-719-053-09	LED SML-310VTT86 (\triangle) (CA530X/CA580X)		D580	8-719-053-08	LED SML-310DTT86 (SEL) (CA530X/CA580X)	
D562	8-719-038-05	LED CL-190FG-CD-T (\triangle) (CA400)		D580	8-719-053-09	LED SML-310VTT86 (SEL) (CA400)	
D563	8-719-053-08	LED SML-310DTT86 (MBP) (CA530X/CA580X)		D581	8-719-038-05	LED CL-190FG-CD-T (MODE) (CA400)	
D563	8-719-053-09	LED SML-310VTT86 (MBP) (CA400)		D581	8-719-053-09	LED SML-310VTT86 (MODE) (CA530X/CA580X)	
D564	8-719-053-09	LED SML-310VTT86 (SEEK5) (CA530X/CA580X)		D582	8-719-053-09	LED SML-310VTT86 (VOL3) (CA530X/CA580X)	
D564	8-719-078-21	LED SML-310PTT86 (SEEK5) (CA400)		D582	8-719-078-21	LED SML-310PTT86 (VOL3) (CA400)	
D565	8-719-053-09	LED SML-310VTT86 (DSO) (CA530X/CA580X)		D583	8-719-053-09	LED SML-310VTT86 (VOL4) (CA530X/CA580X)	
D565	8-719-078-21	LED SML-310PTT86 (DSO) (CA400)		D583	8-719-078-21	LED SML-310PTT86 (VOL4) (CA400)	
D566	8-719-053-09	LED SML-310VTT86 (SEEK1) (CA530X/CA580X)		D584	8-719-053-09	LED SML-310VTT86 (VOL5) (CA530X/CA580X)	
D566	8-719-078-21	LED SML-310PTT86 (SEEK1) (CA400)		D584	8-719-078-21	LED SML-310PTT86 (VOL5) (CA400)	
D567	8-719-038-05	LED CL-190FG-CD-T (OFF) (CA400)		D585	8-719-053-09	LED SML-310VTT86 (SOURCE) (CA530X/CA580X)	
D567	8-719-053-09	LED SML-310VTT86 (OFF) (CA530X/CA580X)		D585	8-719-078-21	LED SML-310PTT86 (SOURCE) (CA400)	
D568	8-719-053-09	LED SML-310VTT86 (SEEK4) (CA530X/CA580X)		D586	8-719-053-09	LED SML-310VTT86 (VOL2) (CA530X/CA580X)	
D568	8-719-078-21	LED SML-310PTT86 (SEEK4) (CA400)		D586	8-719-078-21	LED SML-310PTT86 (VOL2) (CA400)	
D569	8-719-053-09	LED SML-310VTT86 (SEEK3) (CA530X/CA580X)					

CDX-CA400/CA530X/CA580X

DISPLAY IN SELF SW

Ref. No.	Part No.	Description	Remark
D587	8-719-053-09	LED SML-310VTT86 (VOL1) (CA530X/CA580X)	
D587	8-719-078-21	LED SML-310PTT86 (VOL1) (CA400)	
< IC >			
IC551	8-759-369-90	IC LC75822ED	
IC552	8-749-017-35	IC KSM-401N	
< JUMPER RESISTOR >			
JR503	1-216-864-11	METAL CHIP	0 5% 1/16W
JR504	1-216-864-11	METAL CHIP	0 5% 1/16W
JR505	1-216-864-11	METAL CHIP	0 5% 1/16W
JR506	1-216-864-11	METAL CHIP	0 5% 1/16W
JR507	1-216-864-11	METAL CHIP	0 5% 1/16W
JR508	1-216-864-11	METAL CHIP	0 5% 1/16W
< LIQUID CRYSTAL DISPLAY >			
LCD501	1-804-626-11	DISPLAY PANEL, LIQUID CRYSTAL	
< PILOT LAMP >			
PL551	1-518-753-11	LAMP, PILOT (LCD BACK LIGHT) (CA400)	
PL551	1-518-754-11	LAMP, PILOT (LCD BACK LIGHT) (CA530X/CA580X)	
PL552	1-518-753-11	LAMP, PILOT (LCD BACK LIGHT) (CA400)	
PL552	1-518-754-11	LAMP, PILOT (LCD BACK LIGHT) (CA530X/CA580X)	
< RESISTOR >			
R501	1-219-286-11	RES-CHIP	680 2% 1/16W
R502	1-219-286-11	RES-CHIP	680 2% 1/16W
R503	1-219-286-11	RES-CHIP	680 2% 1/16W
R504	1-218-847-11	RES-CHIP	1K 2% 1/16W
R505	1-218-851-11	RES-CHIP	1.5K 2% 1/16W
R506	1-218-851-11	RES-CHIP	1.5K 2% 1/16W
R507	1-218-855-11	RES-CHIP	2.2K 2% 1/16W
R508	1-218-859-11	RES-CHIP	3.3K 2% 1/16W
R509	1-218-863-11	RES-CHIP	4.7K 2% 1/16W
R510	1-218-867-11	RES-CHIP	6.8K 2% 1/16W
R511	1-219-286-11	RES-CHIP	680 2% 1/16W
R512	1-219-286-11	RES-CHIP	680 2% 1/16W
R513	1-219-286-11	RES-CHIP	680 2% 1/16W
R514	1-218-847-11	RES-CHIP	1K 2% 1/16W
R515	1-218-851-11	RES-CHIP	1.5K 2% 1/16W
R516	1-218-851-11	RES-CHIP	1.5K 2% 1/16W
R517	1-218-855-11	RES-CHIP	2.2K 2% 1/16W
R518	1-218-859-11	RES-CHIP	3.3K 2% 1/16W
R519	1-218-863-11	RES-CHIP	4.7K 2% 1/16W
R551	1-218-331-11	RES-CHIP	51K 5% 1/16W
R552	1-216-819-11	METAL CHIP	680 5% 1/16W
R554	1-216-807-11	METAL CHIP	68 5% 1/16W
R555	1-216-819-11	METAL CHIP	680 5% 1/16W
R559	1-216-806-11	RES-CHIP	56 5% 1/16W
R560	1-216-806-11	RES-CHIP	56 5% 1/16W

Ref. No.	Part No.	Description	Remark
R561	1-216-806-11	RES-CHIP	56 5% 1/16W
R562	1-216-806-11	RES-CHIP	56 5% 1/16W
R563	1-216-817-11	METAL CHIP	470 5% 1/16W
R564	1-216-817-11	METAL CHIP	470 5% 1/16W
R565	1-216-817-11	METAL CHIP	470 5% 1/16W
R566	1-216-817-11	METAL CHIP	470 5% 1/16W
R567	1-216-817-11	METAL CHIP	470 5% 1/16W
R568	1-216-817-11	METAL CHIP	470 5% 1/16W
R569	1-216-817-11	METAL CHIP	470 5% 1/16W
R570	1-216-817-11	METAL CHIP	470 5% 1/16W
R571	1-216-817-11	METAL CHIP	470 5% 1/16W
R572	1-216-817-11	METAL CHIP	470 5% 1/16W
R573	1-216-817-11	METAL CHIP	470 5% 1/16W
R574	1-216-817-11	METAL CHIP	470 5% 1/16W
R575	1-216-817-11	METAL CHIP	470 5% 1/16W
R576	1-216-817-11	METAL CHIP	470 5% 1/16W
R577	1-216-817-11	METAL CHIP	470 5% 1/16W
R578	1-216-817-11	METAL CHIP	470 5% 1/16W
R579	1-216-817-11	METAL CHIP	470 5% 1/16W
R580	1-216-817-11	METAL CHIP	470 5% 1/16W

Ref. No.	Part No.	Description	Remark
< SWITCH >			
S501	1-572-704-31	SWITCH, KEYBOARD (▲)	
S502	1-572-704-31	SWITCH, KEYBOARD (OFF)	
S503	1-572-704-31	SWITCH, KEYBOARD (SOURCE)	
S504	1-572-704-31	SWITCH, KEYBOARD (MODE)	
S505	1-572-704-31	SWITCH, KEYBOARD (SEL)	
S506	1-771-290-11	SWITCH, SLIDE (VOL)	
S507	1-572-704-31	SWITCH, KEYBOARD (ATT)	
S508	1-572-704-31	SWITCH, KEYBOARD (1/DISC -)	
S509	1-572-704-31	SWITCH, KEYBOARD (2/DISC +)	
S510	1-572-704-31	SWITCH, KEYBOARD (DSPL)	
S511	1-572-704-31	SWITCH, KEYBOARD (MBP)	
S512	1-572-704-31	SWITCH, KEYBOARD (D-BASS)	
S513	1-771-290-11	SWITCH, SLIDE (SEEK/AMS)	
S514	1-572-704-31	SWITCH, KEYBOARD (BTM)	
S515	1-572-704-31	SWITCH, KEYBOARD (SENS)	
S516	1-572-704-31	SWITCH, KEYBOARD (6)	
S517	1-572-704-31	SWITCH, KEYBOARD (5)	
S518	1-572-704-31	SWITCH, KEYBOARD (4/SHUF)	
S519	1-572-704-31	SWITCH, KEYBOARD (3/REP)	

1-683-283-11	IN SELF SW BOARD	*****
< SWITCH >		
SW2	1-529-566-31	SWITCH, PUSH (1 KEY) (SELF)
SW3	1-529-566-31	SWITCH, PUSH (1 KEY) (DISC IN)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-3283-245-A	MAIN BOARD, COMPLETE (including SPEAKER BOARD)		C608	1-164-156-11	CERAMIC CHIP 0.1uF	25V
		*****		C609	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
				C610	1-104-396-11	ELECT 10uF	20% 16V
*	3-019-565-01	BRACKET (IC)		C611	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
	3-041-261-11	BRACKET (TR)		C612	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
	3-236-922-01	HEAT SINK		C613	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
	7-685-793-09	SCREW +PTT 2.6X8 (S)		C614	1-164-174-11	CERAMIC CHIP 0.0082uF	10% 25V
	7-685-795-09	SCREW +PTT 2.6X12 (S)		C615	1-165-176-11	CERAMIC CHIP 0.047uF	10% 16V
		< CAPACITOR >		C617	1-165-176-11	CERAMIC CHIP 0.047uF	10% 16V
				C618	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C101	1-164-346-11	CERAMIC CHIP 1uF	16V	C619	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C102	1-164-346-11	CERAMIC CHIP 1uF	16V	C620	1-104-665-11	ELECT 100uF	20% 10V
C103	1-104-396-11	ELECT 10uF	20% 16V	C621	1-104-396-11	ELECT 10uF	20% 16V
C104	1-104-396-11	ELECT 10uF	20% 16V	C622	1-162-911-11	CERAMIC CHIP 6PF	0.5PF 50V
C105	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C623	1-162-912-11	CERAMIC CHIP 7PF	0.5PF 50V
C108	1-109-982-11	CERAMIC CHIP 1uF	10% 10V	C624	1-162-915-11	CERAMIC CHIP 10PF	0.5PF 50V
C110	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C625	1-162-963-11	CERAMIC CHIP 680PF	10% 50V
C111	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C626	1-164-315-11	CERAMIC CHIP 470PF	5% 50V
C113	1-164-677-11	CERAMIC CHIP 0.033uF	10% 16V	C627	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C114	1-124-257-00	ELECT 2.2uF	20% 50V	C631	1-104-396-11	ELECT 10uF	20% 16V
C115	1-162-965-11	CERAMIC CHIP 0.0015uF	10% 50V	C633	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C116	1-109-982-11	CERAMIC CHIP 1uF	10% 10V	C650	1-164-245-11	CERAMIC CHIP 0.015uF	10% 25V
C117	1-109-982-11	CERAMIC CHIP 1uF	10% 10V	C651	1-164-245-11	CERAMIC CHIP 0.015uF	10% 25V
C118	1-164-346-11	CERAMIC CHIP 1uF	16V	C652	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V
C119	1-164-346-11	CERAMIC CHIP 1uF	16V	C669	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C120	1-164-346-11	CERAMIC CHIP 1uF	16V	C671	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C121	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C672	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C201	1-164-346-11	CERAMIC CHIP 1uF	16V	C701	1-124-584-00	ELECT 100uF	20% 10V
C202	1-164-346-11	CERAMIC CHIP 1uF	16V	C702	1-124-584-00	ELECT 100uF	20% 10V
C203	1-104-396-11	ELECT 10uF	20% 16V	C703	1-124-584-00	ELECT 100uF	20% 10V
C204	1-104-396-11	ELECT 10uF	20% 16V	C704	1-124-584-00	ELECT 100uF	20% 10V
C205	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C706	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C208	1-109-982-11	CERAMIC CHIP 1uF	10% 10V	C707	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C210	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C801	1-104-396-11	ELECT 10uF	20% 16V
C211	1-164-156-11	CERAMIC CHIP 0.1uF	25V	C802	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C213	1-164-677-11	CERAMIC CHIP 0.033uF	10% 16V	C803	1-162-918-11	CERAMIC CHIP 18PF	5% 50V
C214	1-124-257-00	ELECT 2.2uF	20% 50V	C804	1-164-160-11	CERAMIC CHIP 20PF	5% 50V
C215	1-162-965-11	CERAMIC CHIP 0.0015uF	10% 50V	C809	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C216	1-109-982-11	CERAMIC CHIP 1uF	10% 10V	C810	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C217	1-109-982-11	CERAMIC CHIP 1uF	10% 10V	C841	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C218	1-164-346-11	CERAMIC CHIP 1uF	16V	C842	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C219	1-124-234-00	ELECT 22uF	20% 16V	C846	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C220	1-164-346-11	CERAMIC CHIP 1uF	16V	C847	1-164-346-11	CERAMIC CHIP 1uF	16V
C221	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C848	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C401	1-126-163-11	ELECT 4.7uF	20% 50V	C851	1-124-119-00	ELECT 330uF	20% 16V
C407	1-104-396-11	ELECT 10uF	20% 16V	C869	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C426	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	C901	1-135-473-21	ELECT 3300uF	20% 16V
C432	1-124-589-11	ELECT 47uF	20% 16V	C904	1-126-160-11	ELECT 1uF	20% 50V
C435	1-124-589-11	ELECT 47uF	20% 16V	C905	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C603	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V	C907	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C604	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	C909	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C605	1-104-665-11	ELECT 100uF	20% 10V	C913	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C606	1-104-665-11	ELECT 100uF	20% 10V	C914	1-104-665-11	ELECT 100uF	20% 10V

CDX-CA400/CA530X/CA580X

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C915	1-110-654-11	DOUBLE LAYERS	0.047F	5.5V	D933	8-719-074-47	DIODE CRS02(TE85L)
C916	1-164-156-11	CERAMIC CHIP	0.1uF	25V	D999	8-719-991-33	DIODE 1SS133T-77
C919	1-124-229-00	ELECT	33uF	20%			
C931	1-164-156-11	CERAMIC CHIP	0.1uF	25V		< IC >	
		< JACK >					
CNJ601	1-793-598-11	JACK (ANTENNA)			IC101	8-759-827-14	IC TA8268AH
		< CONNECTOR >			IC401	8-759-827-11	IC LC75421M-TLM-E
CNJ801	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)			IC601	8-759-586-59	IC TB2118F-EL-S
CNP701	1-815-260-11	CONNECTOR, BOARD TO BOARD 30P			IC801	6-801-302-01	IC uPD780076GK-520-9ET
CNP801	1-794-311-21	PLUG, CONNECTOR 12P			IC802	8-759-096-16	IC MM1175XFF
CNP901	1-774-701-11	PIN, CONNECTOR 16P			IC902	8-759-837-07	IC S7139SF
		< SURGE ABSORBER >				< JUMPER RESISTOR >	
CP601	1-803-335-21	ABSORBER, CHIP SURGE		JR110	1-216-864-11	METAL CHIP	0 5% 1/16W
		< DIODE >		JR603	1-216-864-11	METAL CHIP	0 5% 1/16W
D401	8-719-991-33	DIODE	1SS133T-77	JR605	1-216-864-11	METAL CHIP	0 5% 1/16W
D402	8-719-988-61	DIODE	1SS355TE-17	JR606	1-216-864-11	METAL CHIP	0 5% 1/16W
D444	8-719-988-61	DIODE	1SS355TE-17	JR607	1-216-864-11	METAL CHIP	0 5% 1/16W
D604	8-719-109-85	DIODE	RD5.1ES-B2				
D802	8-719-109-97	DIODE	RD6.8ES-B2			< COIL >	
D803	8-719-109-97	DIODE	RD6.8ES-B2	JR903	1-216-864-11	METAL CHIP	0 5% 1/16W
D804	8-719-109-97	DIODE	RD6.8ES-B2	JR904	1-216-864-11	METAL CHIP	0 5% 1/16W
D805	8-719-109-97	DIODE	RD6.8ES-B2	JR929	1-216-864-11	METAL CHIP	0 5% 1/16W
D806	8-719-109-97	DIODE	RD6.8ES-B2				
D807	8-719-109-97	DIODE	RD6.8ES-B2			< COIL >	
D808	8-719-109-97	DIODE	RD6.8ES-B2	L601	1-410-508-11	INDUCTOR	8.2uH
D809	8-719-109-97	DIODE	RD6.8ES-B2	L603	1-412-006-31	INDUCTOR	10uH
D851	8-719-420-51	DIODE	MA729	L604	1-410-750-41	INDUCTOR	0.47uH
D852	8-719-017-95	DIODE	MA8180-TX	L669	1-424-759-21	COIL (AM ANT)	
D853	8-719-017-95	DIODE	MA8180-TX	L701	1-410-513-11	INDUCTOR	22uH
D854	8-719-109-97	DIODE	RD6.8ES-B2				
D901	8-719-049-38	DIODE	1N5404TU	L702	1-410-513-11	INDUCTOR	22uH
D903	8-719-977-12	DIODE	DTZ6.8B	L703	1-410-513-11	INDUCTOR	22uH
D907	8-719-110-49	DIODE	RD18ES-B2	L901	1-419-476-31	COIL, CHOKE	250uH
D908	8-719-921-63	DIODE	MTZJ-7.5B			< JACK >	
D909	8-719-109-97	DIODE	RD6.8ES-B2	PJ401	1-774-699-12	JACK, PIN 4P (AUDIO OUT REAR, BUS AUDIO IN)	
D910	8-719-109-89	DIODE	RD5.6ES-B2			< TRANSISTOR >	
D913	8-719-110-14	DIODE	RD9.1ES-B3	Q101	8-729-920-21	TRANSISTOR	DTC314TK-T-146
D915	8-719-110-49	DIODE	RD18ES-B2	Q102	8-729-920-21	TRANSISTOR	DTC314TK-T-146
D916	8-719-110-49	DIODE	RD18ES-B2	Q201	8-729-920-21	TRANSISTOR	DTC314TK-T-146
D917	8-719-110-49	DIODE	RD18ES-B2	Q202	8-729-920-21	TRANSISTOR	DTC314TK-T-146
D918	8-719-110-49	DIODE	RD18ES-B2	Q401	8-729-055-92	TRANSISTOR	SRA2203SF
D919	8-719-053-18	DIODE	1SR154-400TE-25	Q402	8-729-055-96	TRANSISTOR	SRC1203SF
D920	8-719-053-18	DIODE	1SR154-400TE-25	Q603	8-729-030-51	TRANSISTOR	2SA1515S-R-TP
D921	8-719-110-49	DIODE	RD18ES-B2	Q604	8-729-055-96	TRANSISTOR	SRC1203SF
D922	8-719-110-49	DIODE	RD18ES-B2	Q605	8-729-030-51	TRANSISTOR	2SA1515S-R-TP
D923	8-719-110-14	DIODE	RD9.1ES-B3	Q606	8-729-055-96	TRANSISTOR	SRC1203SF
D930	8-719-109-89	DIODE	RD5.6ES-B2	Q902	8-729-049-40	TRANSISTOR	2SC5343SFG
D931	8-719-988-61	DIODE	1SS355TE-17	Q904	8-729-055-96	TRANSISTOR	SRC1203SF
D932	8-719-988-61	DIODE	1SS355TE-17	Q905	8-729-055-96	TRANSISTOR	SRC1203SF
				Q906	8-729-055-92	TRANSISTOR	SRA2203SF
				Q907	8-729-019-00	TRANSISTOR	2SD2394-G
				Q909	8-729-055-96	TRANSISTOR	SRC1203SF

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q910	8-729-920-85	TRANSISTOR	2SD1664-QR	R618	1-216-845-11	METAL CHIP	100K 5% 1/16W
Q911	8-729-055-96	TRANSISTOR	SRC1203SF	R619	1-216-817-11	METAL CHIP	470 5% 1/16W
Q912	8-729-055-92	TRANSISTOR	SRA2203SF	R620	1-216-817-11	METAL CHIP	470 5% 1/16W
Q913	8-729-019-00	TRANSISTOR	2SD2394-G	R622	1-216-817-11	METAL CHIP	470 5% 1/16W
Q914	8-729-055-96	TRANSISTOR	SRC1203SF	R628	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
Q915	8-729-049-43	TRANSISTOR	STB1132Y	R704	1-216-821-11	METAL CHIP	1K 5% 1/16W
Q917	8-729-820-46	TRANSISTOR	2SB1202FAS	R705	1-216-821-11	METAL CHIP	1K 5% 1/16W
Q918	8-729-055-92	TRANSISTOR	SRA2203SF	R706	1-216-864-11	METAL CHIP	0 5% 1/16W
Q919	8-729-920-85	TRANSISTOR	2SD1664-QR	R707	1-247-887-00	CARBON	220K 5% 1/4W
Q920	8-729-920-85	TRANSISTOR	2SD1664-QR	R708	1-216-821-11	METAL CHIP	1K 5% 1/16W
Q921	8-729-055-96	TRANSISTOR	SRC1203SF	R709	1-216-821-11	METAL CHIP	1K 5% 1/16W
Q929	8-729-055-96	TRANSISTOR	SRC1203SF	R710	1-216-821-11	METAL CHIP	1K 5% 1/16W
		< RESISTOR >		R711	1-216-821-11	METAL CHIP	1K 5% 1/16W
R107	1-216-841-11	METAL CHIP	47K 5% 1/16W	R712	1-216-821-11	METAL CHIP	1K 5% 1/16W
R108	1-216-841-11	METAL CHIP	47K 5% 1/16W	R714	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
R109	1-216-809-11	METAL CHIP	100 5% 1/16W	R716	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
R110	1-216-809-11	METAL CHIP	100 5% 1/16W	R806	1-216-821-11	METAL CHIP	1K 5% 1/16W
R113	1-218-867-11	RES-CHIP	6.8K 5% 1/16W	R807	1-216-821-11	METAL CHIP	1K 5% 1/16W
R115	1-216-834-11	METAL CHIP	12K 5% 1/16W	R808	1-216-821-11	METAL CHIP	1K 5% 1/16W
R121	1-216-821-11	METAL CHIP	1K 5% 1/16W	R809	1-216-821-11	METAL CHIP	1K 5% 1/16W
R122	1-216-841-11	METAL CHIP	47K 5% 1/16W	R810	1-216-813-11	METAL CHIP	220 5% 1/16W
R207	1-216-841-11	METAL CHIP	47K 5% 1/16W	R811	1-249-409-11	CARBON	220 5% 1/4W
R208	1-216-841-11	METAL CHIP	47K 5% 1/16W	R812	1-249-409-11	CARBON	220 5% 1/4W
R209	1-216-809-11	METAL CHIP	100 5% 1/16W	R813	1-216-837-11	METAL CHIP	22K 5% 1/16W
R210	1-216-809-11	METAL CHIP	100 5% 1/16W	R814	1-216-809-11	METAL CHIP	100 5% 1/16W
R213	1-218-867-11	RES-CHIP	6.8K 5% 1/16W	R815	1-216-809-11	METAL CHIP	100 5% 1/16W
R215	1-216-834-11	METAL CHIP	12K 5% 1/16W	R819	1-216-864-11	METAL CHIP	0 5% 1/16W
R221	1-216-821-11	METAL CHIP	1K 5% 1/16W	R821	1-216-849-11	METAL CHIP	220K 5% 1/16W
R222	1-216-841-11	METAL CHIP	47K 5% 1/16W	R824	1-216-849-11	METAL CHIP	220K 5% 1/16W
R401	1-216-833-11	METAL CHIP	10K 5% 1/16W	R835	1-216-821-11	METAL CHIP	1K 5% 1/16W
R404	1-216-821-11	METAL CHIP	1K 5% 1/16W	R840	1-216-821-11	METAL CHIP	1K 5% 1/16W
R407	1-249-437-11	CARBON	47K 5% 1/4W	R844	1-216-809-11	METAL CHIP	100 5% 1/16W
R408	1-218-867-11	RES-CHIP	6.8K 5% 1/16W	R845	1-216-809-11	METAL CHIP	100 5% 1/16W
R410	1-216-805-11	METAL CHIP	47 5% 1/16W	R846	1-216-809-11	METAL CHIP	100 5% 1/16W
R444	1-216-864-11	METAL CHIP	0 5% 1/16W	R847	1-216-809-11	METAL CHIP	100 5% 1/16W
R601	1-249-417-11	CARBON	1K 5% 1/4W	R848	1-216-809-11	METAL CHIP	100 5% 1/16W
R602	1-216-821-11	METAL CHIP	1K 5% 1/16W	R849	1-216-809-11	METAL CHIP	100 5% 1/16W
R603	1-249-407-11	CARBON	150 5% 1/4W	R851	1-249-421-11	CARBON	2.2K 5% 1/4W
R604	1-216-821-11	METAL CHIP	1K 5% 1/16W	R852	1-216-809-11	METAL CHIP	100 5% 1/16W
R605	1-216-841-11	METAL CHIP	47K 5% 1/16W	R853	1-247-807-31	CARBON	100 5% 1/4W
R606	1-216-841-11	METAL CHIP	47K 5% 1/16W	R854	1-216-841-11	METAL CHIP	47K 5% 1/16W
R607	1-216-827-11	METAL CHIP	3.3K 5% 1/16W	R855	1-216-821-11	METAL CHIP	1K 5% 1/16W
R608	1-216-833-11	METAL CHIP	10K 5% 1/16W	R901	1-249-425-11	CARBON	4.7K 5% 1/4W
R609	1-216-809-11	METAL CHIP	100 5% 1/16W	R905	1-216-864-11	METAL CHIP	0 5% 1/16W
R610	1-216-809-11	METAL CHIP	100 5% 1/16W	R906	1-216-821-11	METAL CHIP	1K 5% 1/16W
R611	1-218-867-11	RES-CHIP	6.8K 5% 1/16W	R907	1-216-841-11	METAL CHIP	47K 5% 1/16W
R612	1-216-833-11	METAL CHIP	10K 5% 1/16W	R908	1-216-841-11	METAL CHIP	47K 5% 1/16W
R613	1-216-833-11	METAL CHIP	10K 5% 1/16W	R909	1-216-828-11	METAL CHIP	3.9K 5% 1/16W
R614	1-247-807-31	CARBON	100 5% 1/4W	R911	1-249-417-11	CARBON	1K 5% 1/4W
R615	1-216-825-11	METAL CHIP	2.2K 5% 1/16W	R912	1-249-413-11	CARBON	470 5% 1/4W
R616	1-216-845-11	METAL CHIP	100K 5% 1/16W	R913	1-249-417-11	CARBON	1K 5% 1/4W
R617	1-216-825-11	METAL CHIP	2.2K 5% 1/16W	R917	1-249-409-11	CARBON	220 5% 1/4W
				R918	1-216-845-11	METAL CHIP	100K 5% 1/16W

CDX-CA400/CA530X/CA580X

MAIN **SERVO**

Ref. No.	Part No.	Description	Remark
R919	1-249-421-11	CARBON	2.2K 5% 1/4W
R920	1-216-849-11	METAL CHIP	220K 5% 1/16W
R922	1-208-806-11	RES-CHIP	10K 0.5% 1/10W
R923	1-208-806-11	RES-CHIP	10K 0.5% 1/10W
R924	1-249-404-00	CARBON	82 5% 1/4W
R925	1-249-404-00	CARBON	82 5% 1/4W
R926	1-249-404-00	CARBON	82 5% 1/4W
R927	1-249-404-00	CARBON	82 5% 1/4W
R928	1-249-404-00	CARBON	82 5% 1/4W
R929	1-249-404-00	CARBON	82 5% 1/4W
R930	1-249-395-11	CARBON	15 5% 1/4W
R931	1-218-867-11	RES-CHIP	6.8K 5% 1/16W
R932	1-249-421-11	CARBON	2.2K 5% 1/4W
R933	1-216-821-11	METAL CHIP	1K 5% 1/16W
R934	1-249-409-11	CARBON	220 5% 1/4W
< SWITCH >			
S901	1-762-638-11	SWITCH, TACTILE (RESET)	
< THERMISTOR (POSITIVE) >			
TH851	1-801-792-21	THERMISTOR, POSITIVE	
TH901	1-809-148-11	THERMISTOR PTH8L07AR2R0M1B510	
< TUNER >			
TU601	A-3220-835-A	TUNER UNIT (TUX-010)	
< VIBRATOR >			
X601	1-781-246-21	VIBRATOR, CRYSTAL (10.25MHz)	
X801	1-795-259-11	VIBRATOR, CERAMIC (8.38MHz)	
X802	1-567-098-41	VIBRATOR, CRYSTAL (32kHz)	

A-3283-233-A	SERVO BOARD, COMPLETE		

1-683-284-11	FLEXIBLE BOARD		
< CAPACITOR >			
C1	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C3	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C4	1-104-609-11	ELECT CHIP	100uF 20% 4V
C5	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C6	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C8	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C9	1-162-924-11	CERAMIC CHIP	56PF 5% 50V
C10	1-162-924-11	CERAMIC CHIP	56PF 5% 50V
C11	1-162-909-11	CERAMIC CHIP	4PF 0.25PF 50V
C13	1-162-916-11	CERAMIC CHIP	12PF 5% 50V
C14	1-125-837-91	CERAMIC CHIP	1uF 10% 6.3V
C15	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C16	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C17	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C18	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V

Ref. No.	Part No.	Description	Remark
C19	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C20	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C21	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C22	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C23	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C24	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C25	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C26	1-126-391-11	ELECT CHIP	47uF 20% 6.3V
C27	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C29	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C30	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C34	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C35	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C36	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C37	1-126-393-11	ELECT CHIP	33uF 20% 10V
C38	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C40	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C41	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C43	1-162-967-11	CERAMIC CHIP	0.0033uF 10% 50V
C44	1-125-837-91	CERAMIC CHIP	1uF 10% 6.3V
C45	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
< CONNECTOR >			
CN1	1-815-352-11	CONNECTOR, BOARD TO BOARD 30P	
CN3	1-816-275-11	CONNECTOR, FFC/FPC 6P	
< JUMPER RESISTOR >			
FB1	1-216-864-11	METAL CHIP	0 5% 1/16W
FB2	1-216-864-11	METAL CHIP	0 5% 1/16W
FB3	1-216-864-11	METAL CHIP	0 5% 1/16W
FB4	1-216-864-11	METAL CHIP	0 5% 1/16W
FB6	1-216-864-11	METAL CHIP	0 5% 1/16W
FB7	1-216-864-11	METAL CHIP	0 5% 1/16W
< IC >			
IC1	8-759-699-98	IC uPD63711GC-8EU	
IC2	8-759-658-87	IC BA5810FP-E2	
< TRANSISTOR >			
Q1	8-729-904-87	TRANSISTOR 2SB1197K-R	
< RESISTOR >			
R3	1-216-797-11	METAL CHIP	10 5% 1/16W
R5	1-218-344-11	RES-CHIP	7.5K 5% 1/16W
R6	1-216-837-11	METAL CHIP	22K 5% 1/16W
R7	1-216-839-11	METAL CHIP	33K 5% 1/16W
R8	1-216-833-11	METAL CHIP	10K 5% 1/16W
R9	1-216-840-11	METAL CHIP	39K 5% 1/16W
R10	1-216-835-11	METAL CHIP	15K 5% 1/16W
R12	1-216-837-11	METAL CHIP	22K 5% 1/16W
R14	1-216-841-11	METAL CHIP	47K 5% 1/16W
R15	1-216-841-11	METAL CHIP	47K 5% 1/16W

SERVO

SL SW

SPEAKER

Ref. No.	Part No.	Description	Remark
R17	1-216-809-11	METAL CHIP	100 5% 1/16W
R18	1-216-809-11	METAL CHIP	100 5% 1/16W
R19	1-216-809-11	METAL CHIP	100 5% 1/16W
R20	1-216-809-11	METAL CHIP	100 5% 1/16W
R21	1-216-821-11	METAL CHIP	1K 5% 1/16W
R22	1-216-821-11	METAL CHIP	1K 5% 1/16W
R24	1-216-864-11	METAL CHIP	0 5% 1/16W
R25	1-216-864-11	METAL CHIP	0 5% 1/16W
R26	1-216-797-11	METAL CHIP	10 5% 1/16W
R29	1-216-833-11	METAL CHIP	10K 5% 1/16W
R30	1-216-833-11	METAL CHIP	10K 5% 1/16W
< SWITCH >			
SW1	1-762-944-12	SWITCH, DETECTION (SMALL TYPE) (DOWN)	
< VIBRATOR >			
X1	1-795-520-21	VIBRATOR, CERAMIC (16.9344MHz)	

	1-683-282-11	SL SW BOARD	

< SWITCH >			
SW4	1-529-565-41	SWITCH, PUSH (1 KEY) (LIMIT)	

	1-683-830-11	SPEAKER BOARD (supplied with MAIN BOARD, COMPLETE)	

MISCELLANEOUS			

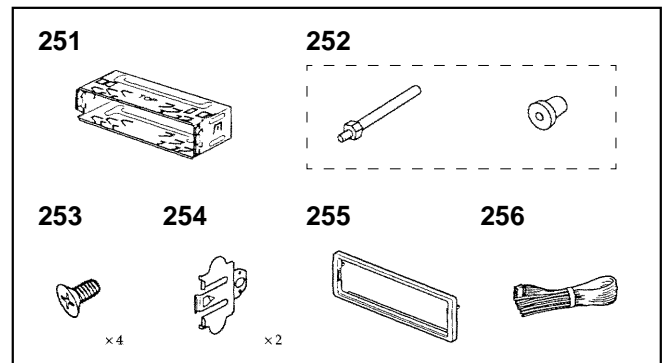
3	1-776-206-21	CORD (WITH CONNECTOR) (POWER)	
201	X-3378-480-1	CHASSIS (OP) ASSY (including M901)	
207	1-823-641-11	CABLE, FLEXIBLE FLAT (6 CORE)	
△ 210	8-820-103-11	PICK-UP, OPTICAL KSS-720A/C-RP	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
M902	A-3301-985-A	MOTOR ASSY, SLED (SLED)	
M903	A-3315-039-A	MOTOR SUB ASSY, LO (LOADING)	

Ref. No.	Part No.	Description	Remark
		ACCESSORIES	

	1-476-526-31	REMOTE COMMANDER (RM-X115)	(CA400/CA580X)
	3-230-047-01	LID, BATTERY CASE (for RM-X115)	(CA400/CA580X)
	3-238-717-11	MANUAL, INSTRUCTION, INSTALL	(ENGLISH,FRENCH) (CA400)
	3-238-719-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH)	(CA400)
	3-238-722-11	MANUAL, INSTRUCTION, INSTALL	(ENGLISH,SPANISH) (CA530X/CA580X)
	3-238-723-11	MANUAL, INSTRUCTION (ENGLISH,SPANISH)	(CA530X/CA580X)
	X-3380-054-2	CASE ASSY (for FRONT PANEL)	

PARTS FOR INSTALLATION AND CONNECTIONS			

251	3-014-370-21	FRAME, FITTING	
252	X-3366-405-1	SCREW ASSY (EXP), FITTING	(CA530X/CA580X)
253	3-934-325-01	SCREW (+K 5X8 TP)	
254	3-030-929-04	SPRING, FITTING	
255	3-236-923-01	COLLAR	
256	1-776-206-21	CORD (WITH CONNECTOR) (POWER)	



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