

CDX-GT10W/GT100/ GT150/GT150S

SERVICE MANUAL

Ver. 1.0 2005.09

US Model
Canadian Model
CDX-GT10W/GT100
E Model
CDX-GT150/GT150S



(Photo: CDX-GT100)

- The tuner and CD sections have no adjustments.

AUDIO POWER SPECIFICATIONS (US, Canadian model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
23.2 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.

Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-611XE-186//C
Optical Pick-up Name	KSS1000E

SPECIFICATIONS

CD Player section

Signal-to-noise ratio: 120 dB
Frequency response: 10 – 20,000 Hz
Wow and flutter: Below measurable limit

Tuner section

FM
Tuning range (CDX-GT10W/GT100):
87.5 – 107.9 MHz
Tuning range (CDX-GT150/GT150S):
87.5 – 108.0 MHz (at 50 kHz step)
87.5 – 107.9 MHz (at 200 kHz step)
FM tuning interval (CDX-GT150/GT150S):
50 kHz/200 kHz switchable
Antenna terminal: External antenna connector
Intermediate frequency: 10.7 MHz/450 kHz
Usable sensitivity: 9 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 67 dB (stereo), 69 dB (mono)
Harmonic distortion at 1 kHz:
0.5 % (stereo), 0.3 % (mono)
Separation: 35 dB at 1 kHz
Frequency response: 30 – 15,000 Hz

AM

Tuning range (CDX-GT10W/GT100):
530 – 1,710 kHz
Tuning range (CDX-GT150/GT150S):
531 – 1,602 kHz (at 9 kHz step)
530 – 1,710 kHz (at 10 kHz step)
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: 52 W \times 4 (at 4 ohms) (CDX-GT10/GT100/GT150)
45 W \times 4 (at 4 ohms) (CDX-GT150S)

General

Outputs: Audio outputs terminal (sub/rear switchable)
Power antenna relay control terminal
Power amplifier control terminal
Antenna input terminal
Inputs: AUX input jack (stereo mini jack)
Tone controls: Low: \pm 10 dB at 60 Hz (XPLOD)
Mid: \pm 10 dB at 1 kHz (XPLOD)
High: \pm 10 dB at 10 kHz (XPLOD)
Power requirements: 12 V DC car battery (negative ground)
Dimensions: Approx. 178 \times 50 \times 179 mm
(7 1/8 \times 2 \times 7 1/8 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 11 oz)
Supplied accessories: Parts for installation and connections (1 set)

*Design and specifications are subject to change
without notice.*

FM/AM COMPACT DISC PLAYER

9-879-863-01

2005104-1

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Sony Corporation

e Vehicle Group

Published by Sony Engineering Corporation

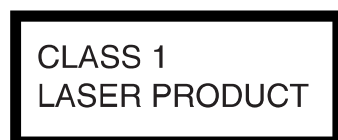
SONY®

SERVICE NOTES

CAUTION

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

This compact disc player is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the exterior. (CDX-GT150/GT150S)



This label is located on the bottom of the chassis.

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

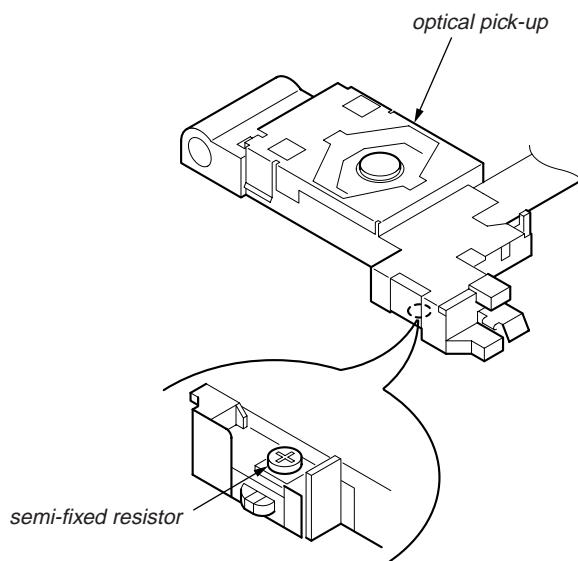
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

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.

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-2502-063-1)

CD-RW test disc TCD-W082L (Part No. J-2502-063-2)

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.

Notes on CD-DA/CD-R/CD-RW

- CD playback:
You can play CD-DA and CD-R/CD-RW for audio use.



● **UNLEADED SOLDER**

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead. (Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time. Soldering irons using a temperature regulator should be set to about 350°C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

EXTENSION CABLE AND SERVICE POSITION

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

- Connect the MAIN board (CNP301) and the SERVO board (CN1) with the extension cable (Part No. J-2502-076-1).

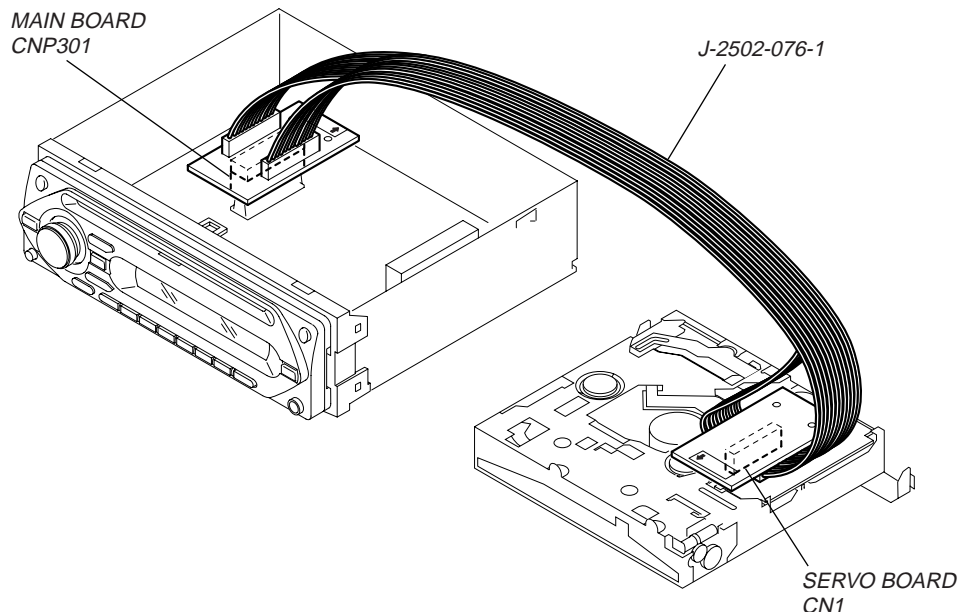


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5. ELECTRICAL PARTS LIST

SECTION 1
GENERAL

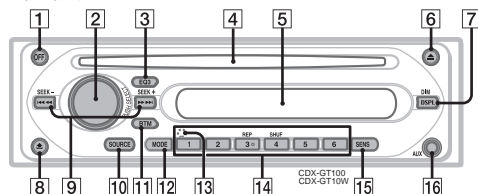
This section is extracted from instruction manual.

• CDX-GT10W/GT100

• CDX-GT150/GT150S

Location of controls and basic operations

Main unit

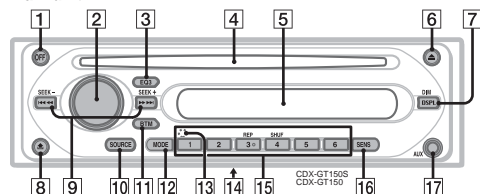


Refer to the pages listed for details.

- 1 OFF button**
To power off; stop the source.
- 2 Volume control dial/select button 6**
To adjust volume (rotate); select setup items (press and rotate).
- 3 EQ3 (equalizer) button 6**
To select an equalizer type (XPLOD, VOCAL, CLUB, JAZZ, NEW AGE, ROCK, CUSTOM or OFF).
- 4 Disc slot**
To insert the disc (label side up), playback starts.
- 5 Display window**
- 6 ▲ (eject) button**
To eject the disc.
- 7 DSPL (display)/DIM (dimmer) button 4**
To change display items (press); change the display brightness (press and hold).
- 8 ⏏ (front panel release) button 4**
- 9 SEEK -/+ buttons**
CD:
To skip tracks (press); skip tracks continuously (press, then press again within about 1 second and hold); reverse/fast-forward a track (press and hold).
Radio:
To tune in stations automatically (press); find a station manually (press and hold).
- 10 SOURCE button**
To power on; change the source (Radio/CD/AUX).
- 11 BTM button 6**
To start the BTM function (press and hold).
- 12 MODE button 6**
To select the radio band (FM/AM).
- 13 RESET button** (located behind the front panel) 4
- 14 Number buttons**
CD:
③: REP
④: SHUF
To play the current track repeatedly.
To play the tracks in random order.
Radio:
To receive stored stations (press); store stations (press and hold).
- 15 SENS button**
To improve weak reception: LOCAL/MONO.
- 16 AUX input jack 7**
To connect a portable audio device.

Location of controls and basic operations

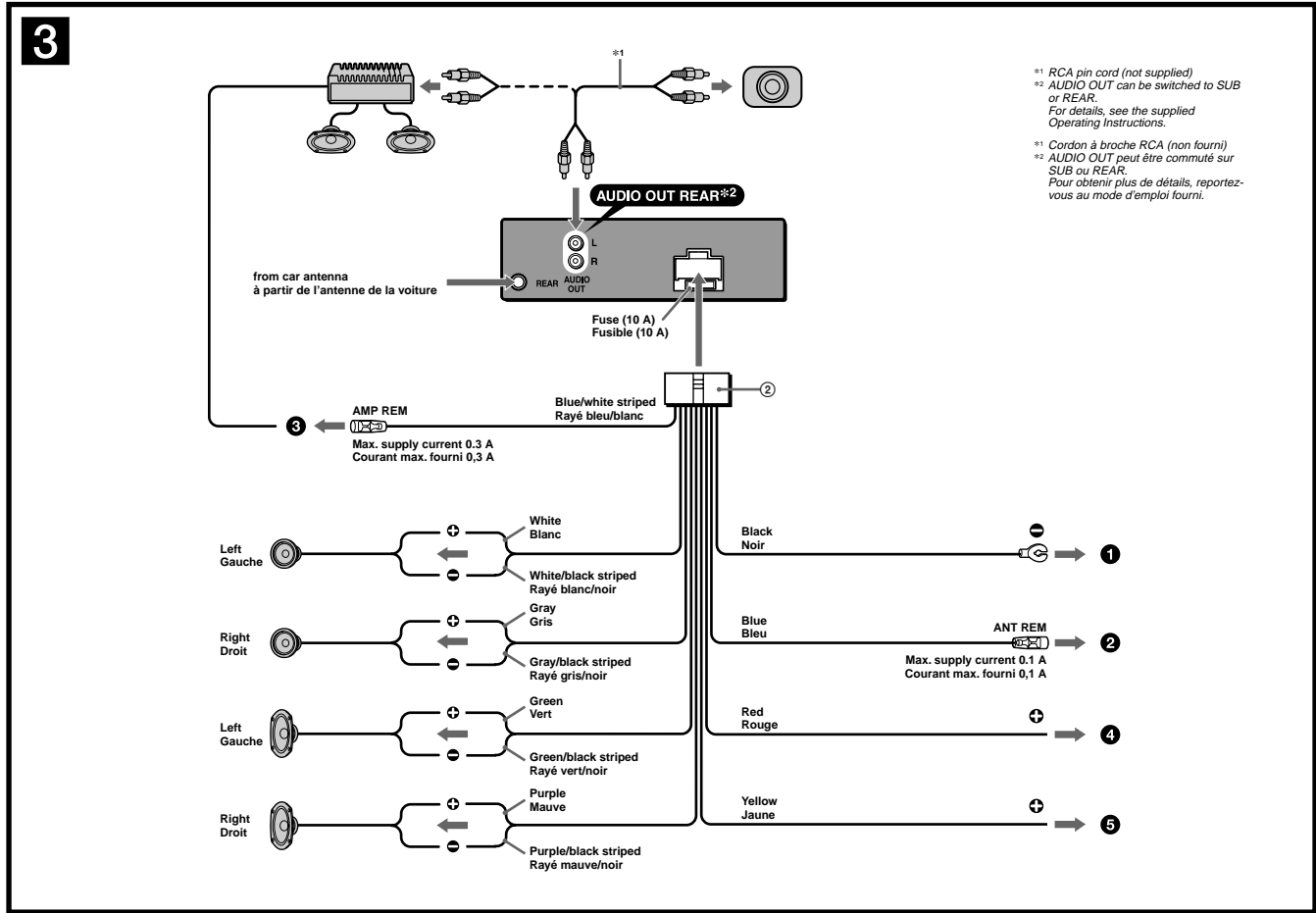
Main unit



Refer to the pages listed for details.

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- 11 BTM button 6**
To start the BTM function (press and hold).
- 12 MODE button 6**
To select the radio band (FM/AM).
- 13 RESET button** (located behind the front panel) 4
- 14 Frequency select switch (located on the bottom of the unit)**
See "Frequency Select switch" in the supplied installation/connections manual.
- 15 Number buttons**
CD:
③: REP
④: SHUF
To play the current track repeatedly.
To play the tracks in random order.
Radio:
To receive stored stations (press); store stations (press and hold).
- 16 SENS button**
To improve weak reception: LOCAL/MONO.
- 17 AUX input jack 7**
To connect a portable audio device.

• CONNECTIONS



*1 RCA pin cord (not supplied)
 *2 AUDIO OUT can be switched to SUB or REAR.
 For details, see the supplied Operating Instructions.
 *1 Cordon à broche RCA (non fourni)
 *2 AUDIO OUT peut être commuté sur SUB ou REAR.
 Pour obtenir plus de détails, reportez-vous au mode d'emploi fourni.

Connection diagram 3

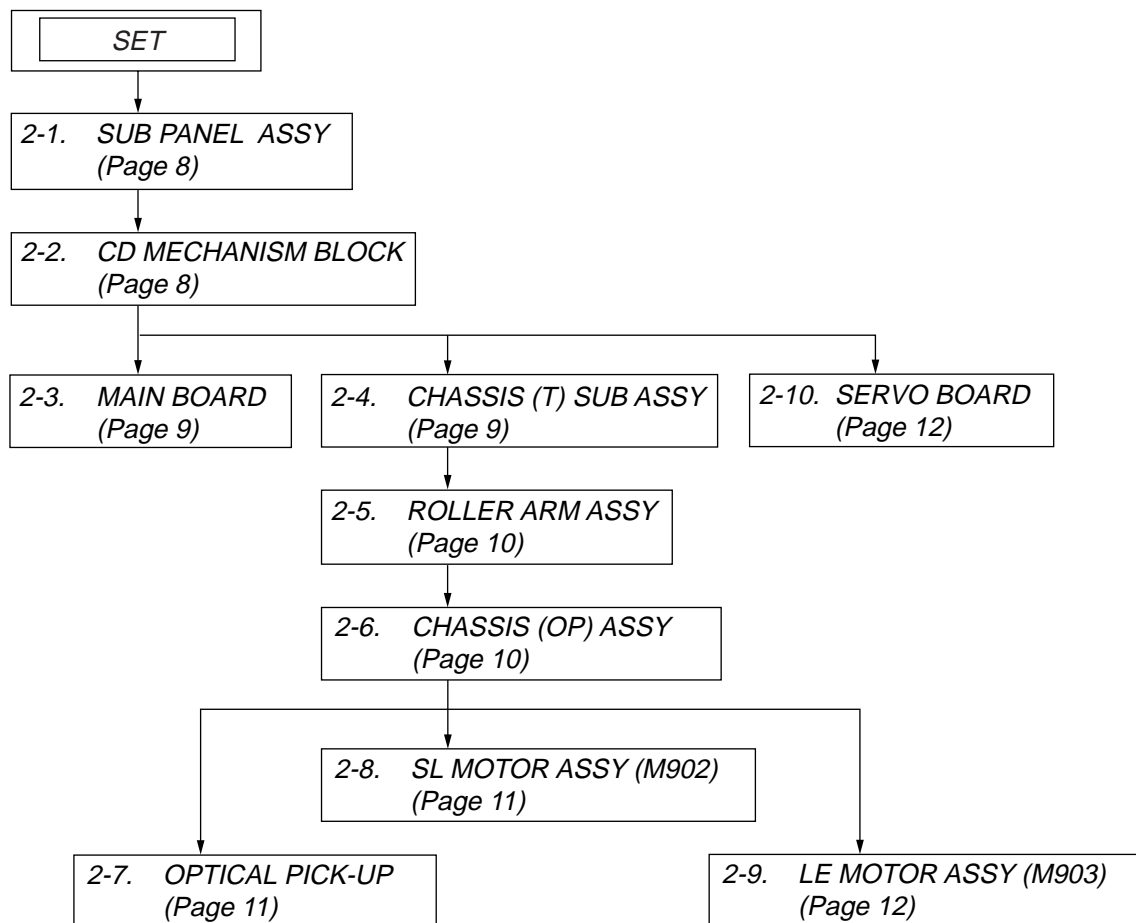
- To a metal surface of the car**
 First connect the black ground lead, then connect the yellow and red power input leads.
- To the power antenna control lead or power supply lead of antenna booster amplifier**
Notes
 - If it is not necessary to connect this lead if there is no power antenna or antenna 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."
- To AMP REMOTE IN of an optional power amplifier**
 This connection is only for amplifiers. Connecting any other system may damage the unit.
- 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 energized at all times. Be sure to connect the black ground lead to a metal surface of the car 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."
- To the +12 V power terminal which is energized at all times**
 Be sure to connect the black ground lead to a metal surface of the car 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 a 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 switch 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 leads 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 leads to each other.**Note on connection**
 If speaker and amplifier are not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Schéma de raccordement 3

- À un point métallique de la voiture**
 Branchez d'abord le câble de mise à la masse noir et, ensuite, les câbles d'entrée d'alimentation jaune et rouge.
- Vers le câble de commande d'antenne électrique ou le câble d'alimentation de l'amplificateur d'antenne**
Remarques
 - Il n'est pas nécessaire de raccorder ce câble s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, ou avec une antenne télescopique manuelle.
 - Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les câbles de commande et d'alimentation ».
- Au niveau de AMP REMOTE IN de l'amplificateur de puissance en option**
 Ce raccordement s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.
- À la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires**
Remarques
 - S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est alimentée en permanence.
 - Raccordez d'abord le câble de mise à la masse noir à un point métallique du véhicule.
 - Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir « Remarques sur les câbles de commande et d'alimentation ».
- À la borne +12 V qui est alimentée en permanence**
 Raccordez d'abord le câble de mise à la masse noir à un point métallique du véhicule.
Remarques sur les câbles de commande et d'alimentation
 - Le câble de commande d'antenne électrique (bleu) fournit une alimentation de +12 V CC lorsque vous mettez la radio sous tension.
 - Lorsque votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, raccordez le câble de commande d'antenne (bleu) ou l'entrée d'alimentation des accessoires (rouge) à la borne d'alimentation 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 câble 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 électrique adéquate pour éviter de les endommager.
 - Ne raccordez pas les bornes du système de haut-parleurs au châssis de la voiture et ne raccordez pas les bornes des haut-parleurs droit à celles du haut-parleur gauche.
 - Ne raccordez pas le câble de mise à la 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 câbles des haut-parleurs intégrés installés dans votre voiture si l'appareil partage un câble négatif commun (-) pour les haut-parleurs droit et gauche.
 - Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.**Remarque sur le raccordement**
 Si les haut-parleurs et l'amplificateur ne sont pas raccordés correctement, le message « FAILURE » s'affiche. Dans ce cas, assurez-vous que les haut-parleurs et l'amplificateur sont bien raccordés.

SECTION 2 DISASSEMBLY

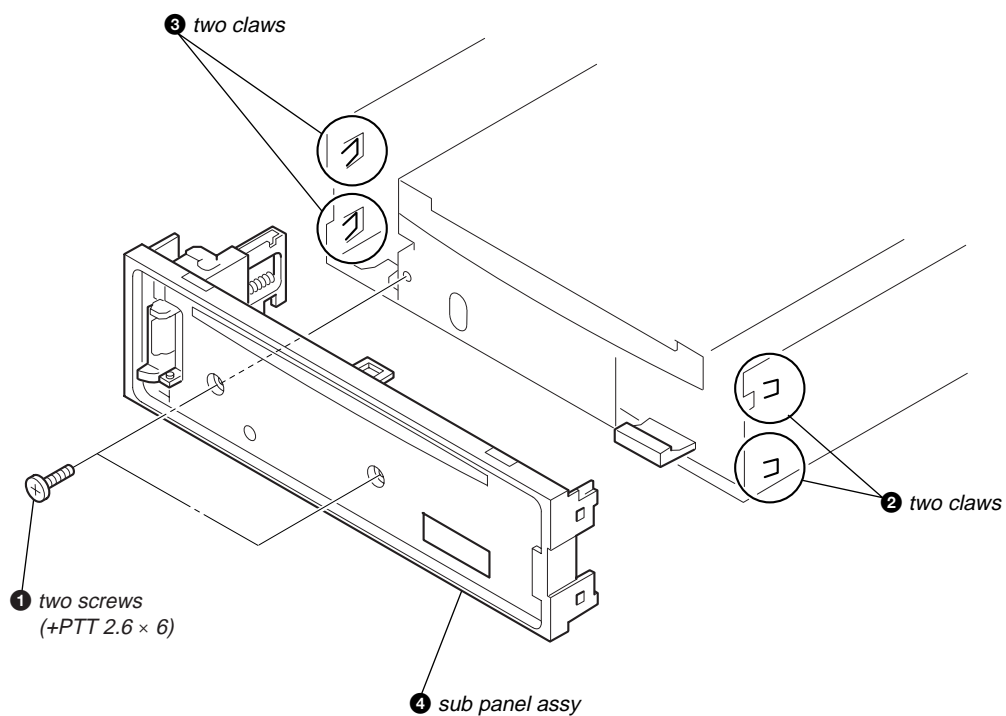
Note : This set can be disassemble according to the following sequence.



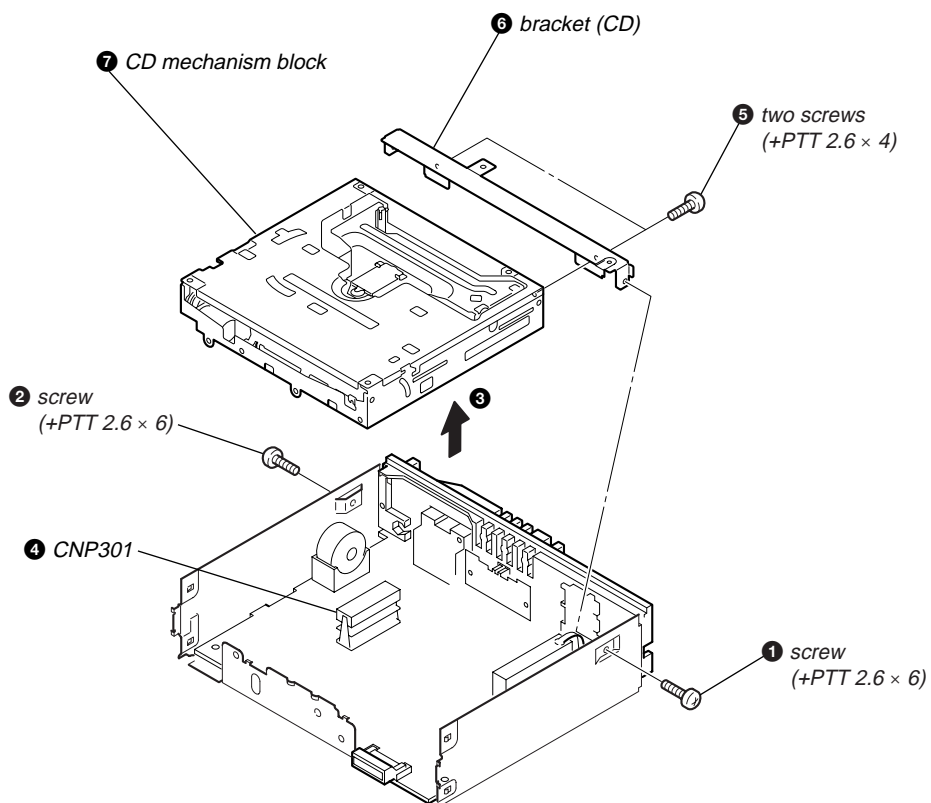
CDX-GT10W/GT100/GT150/GT150S

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

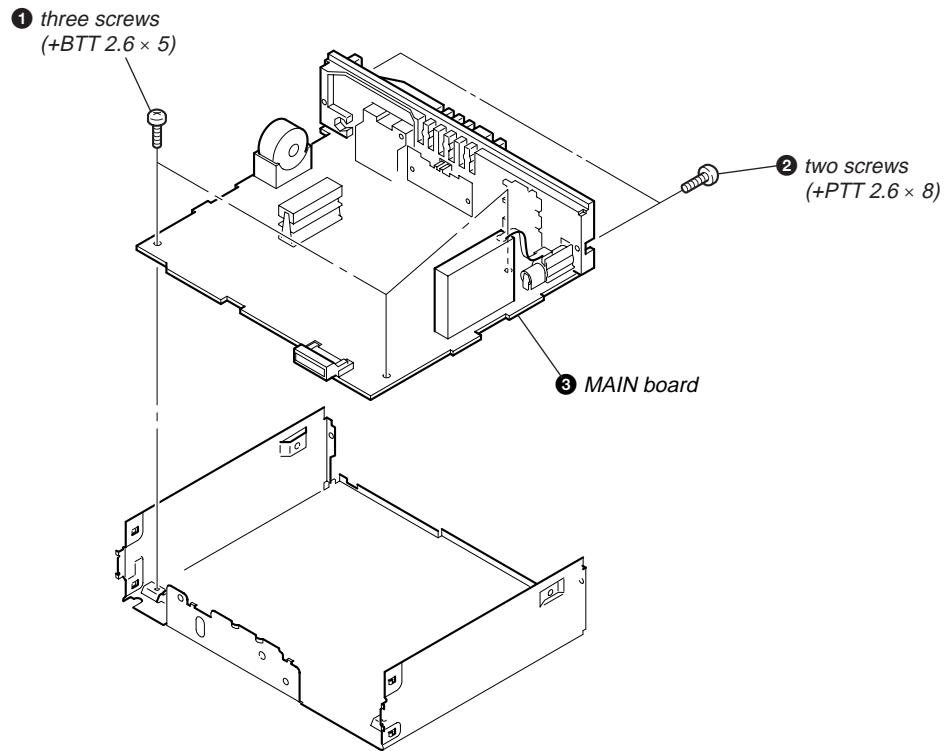
2-1. SUB PANEL ASSY



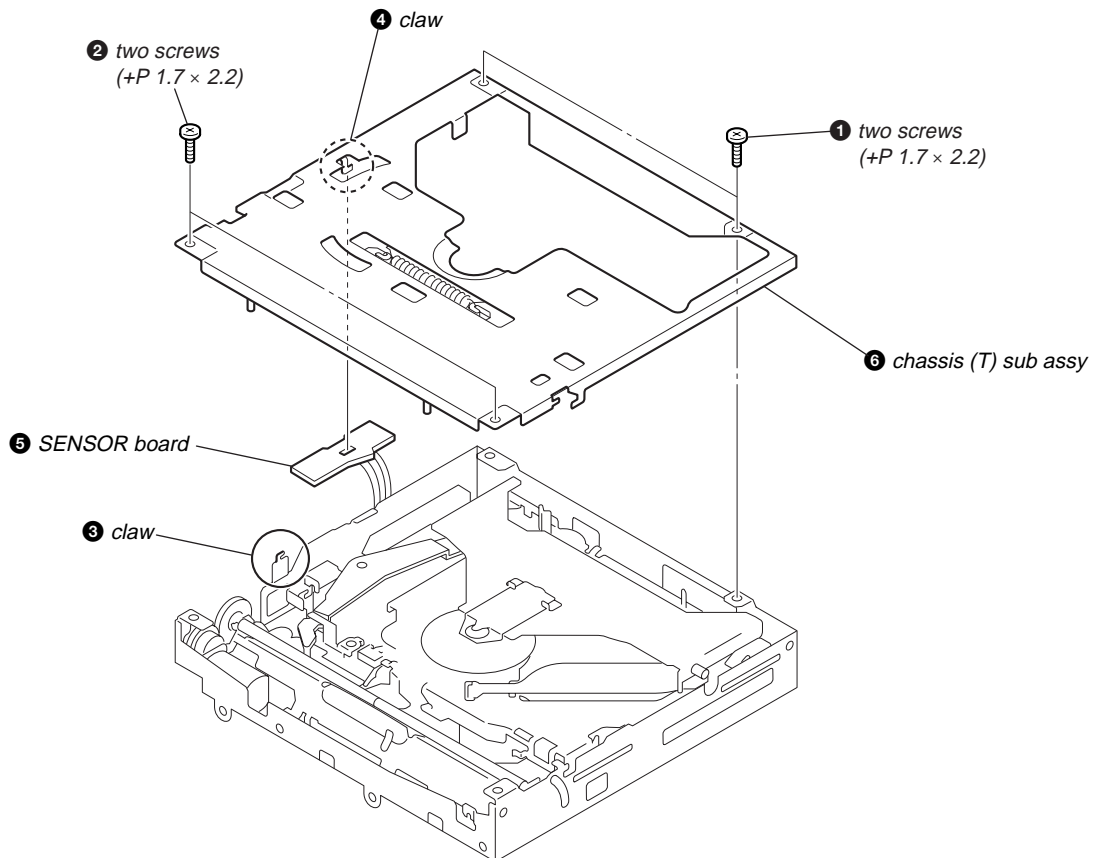
2-2. CD MECHANISM BLOCK



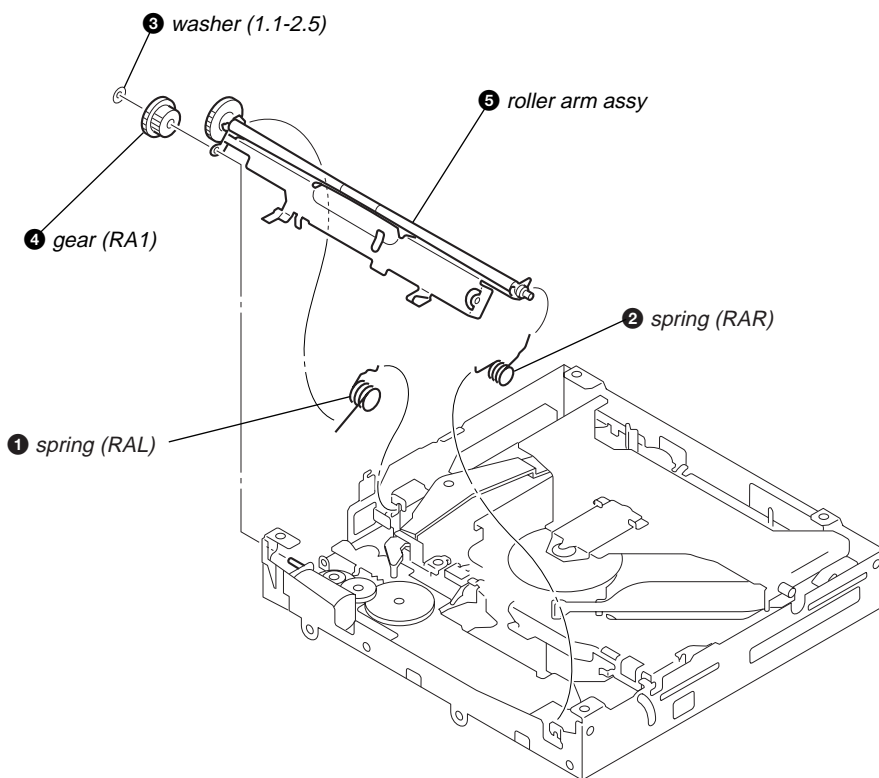
2-3. MAIN BOARD



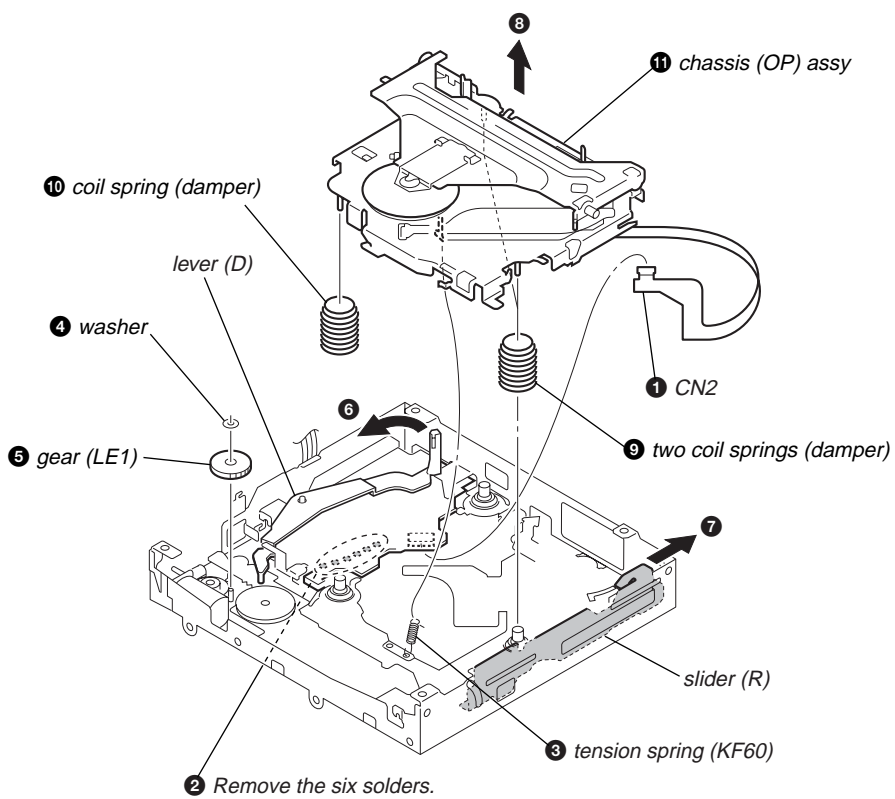
2-4. CHASSIS (T) SUB ASSY



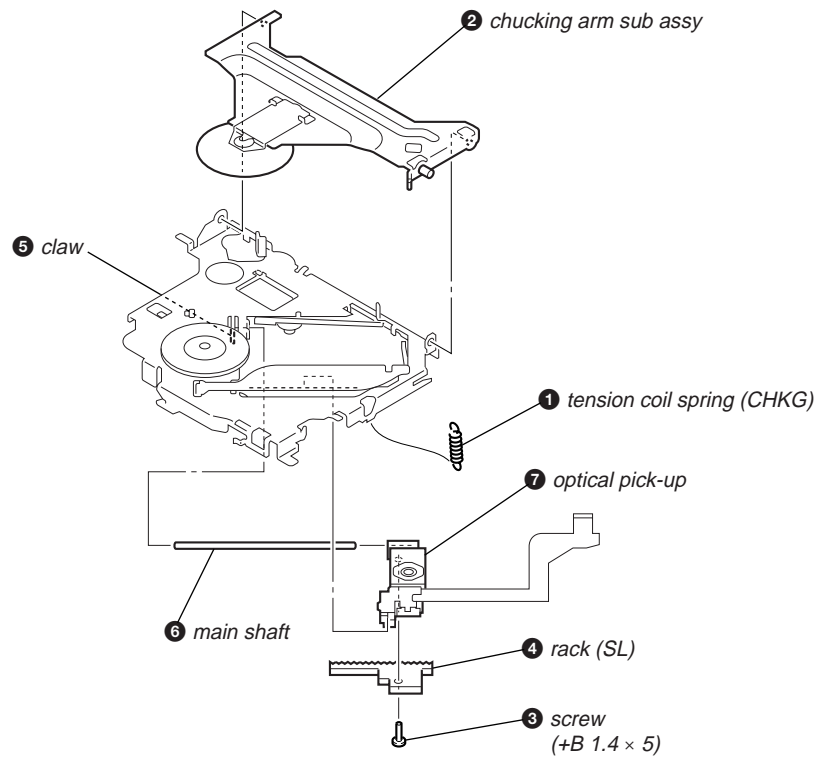
2-5. ROLLER ARM ASSY



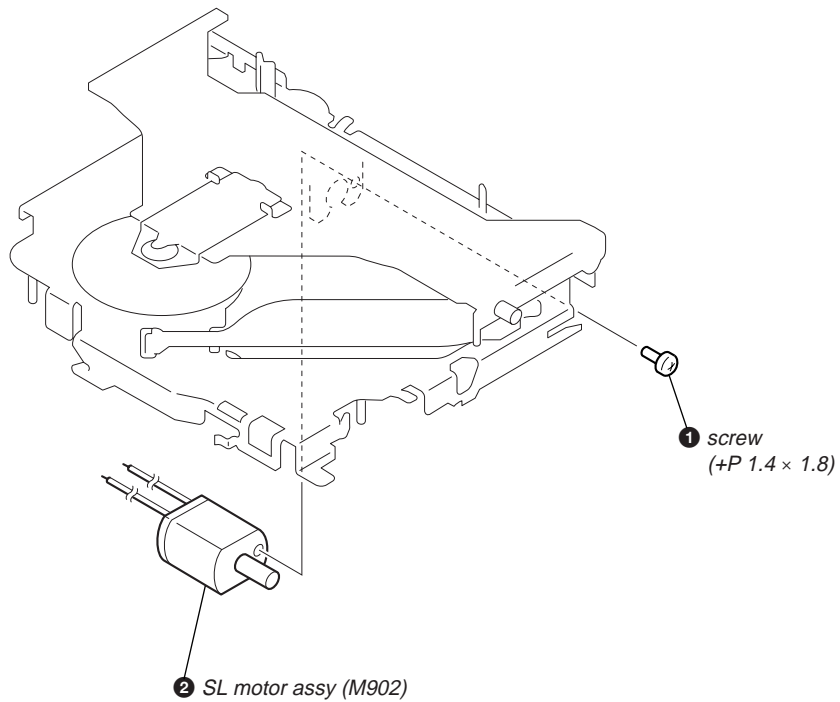
2-6. CHASSIS (OP) ASSY



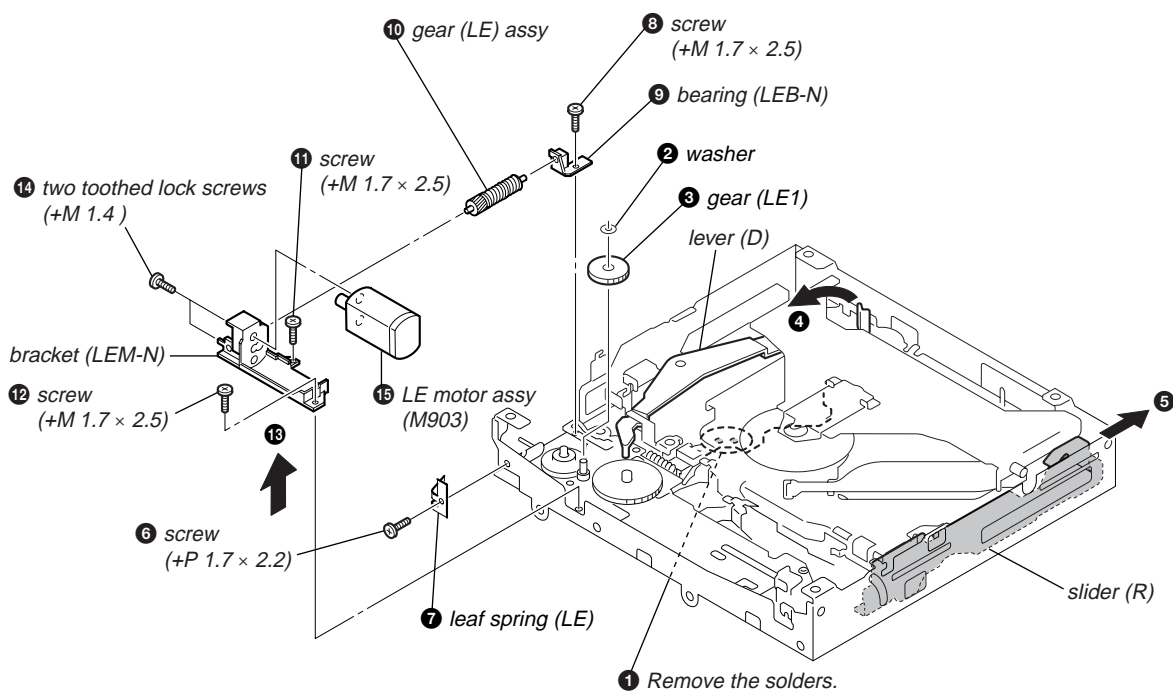
2-7. OPTICAL PICK-UP



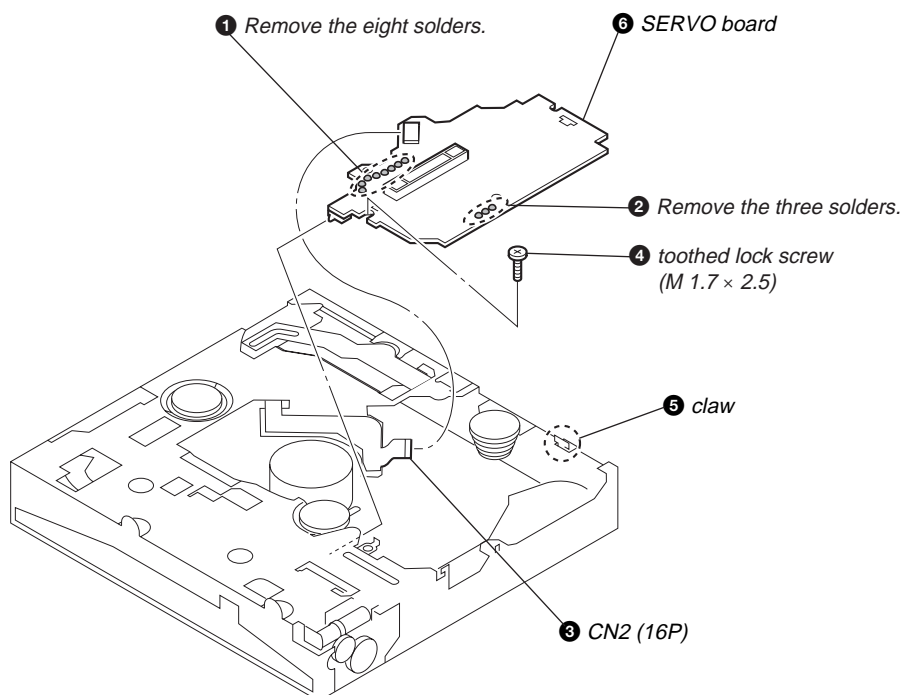
2-8. SL MOTOR ASSY (M902)



2-9. LE MOTOR ASSY (M903)

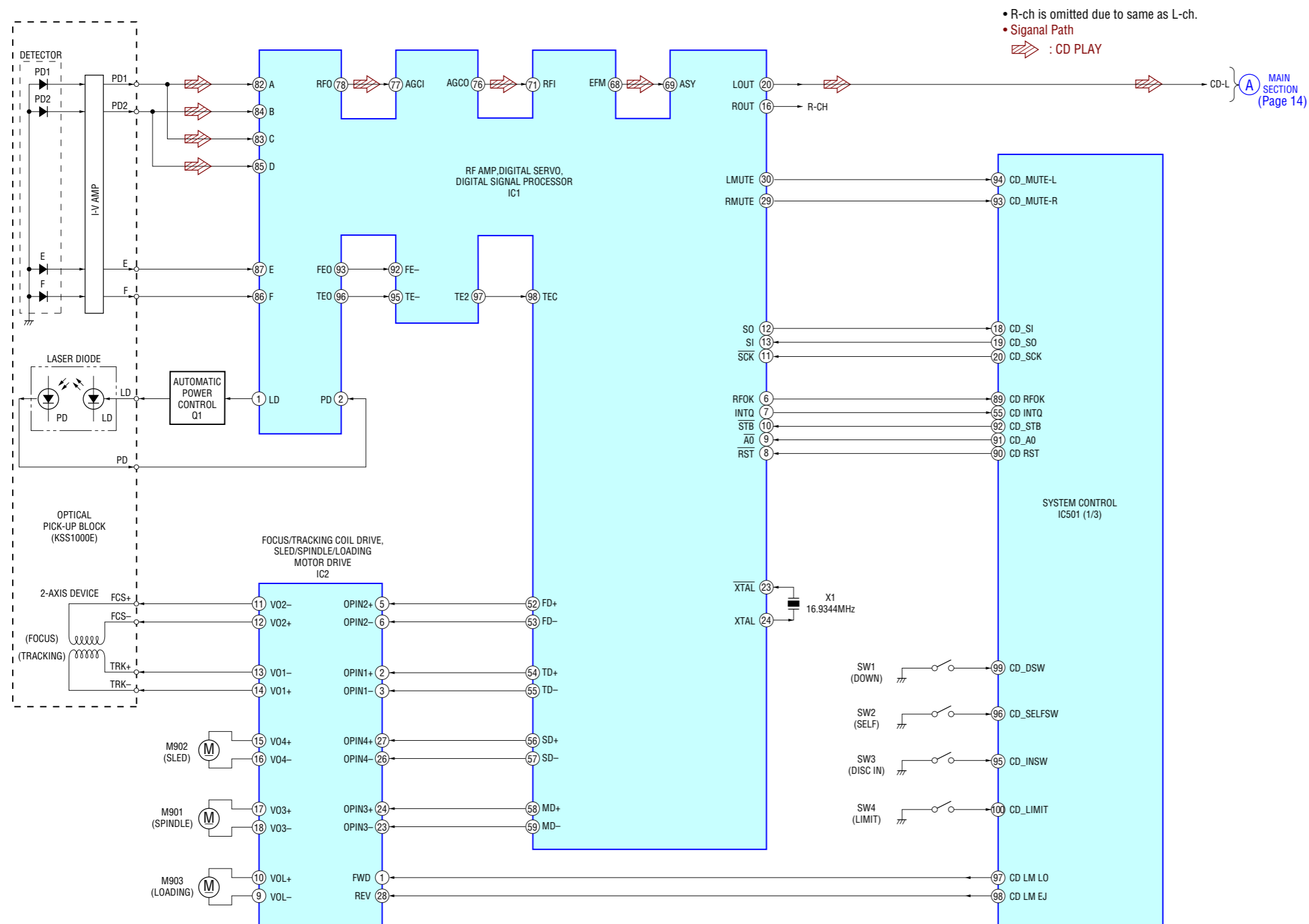


2-10. SERVO BOARD

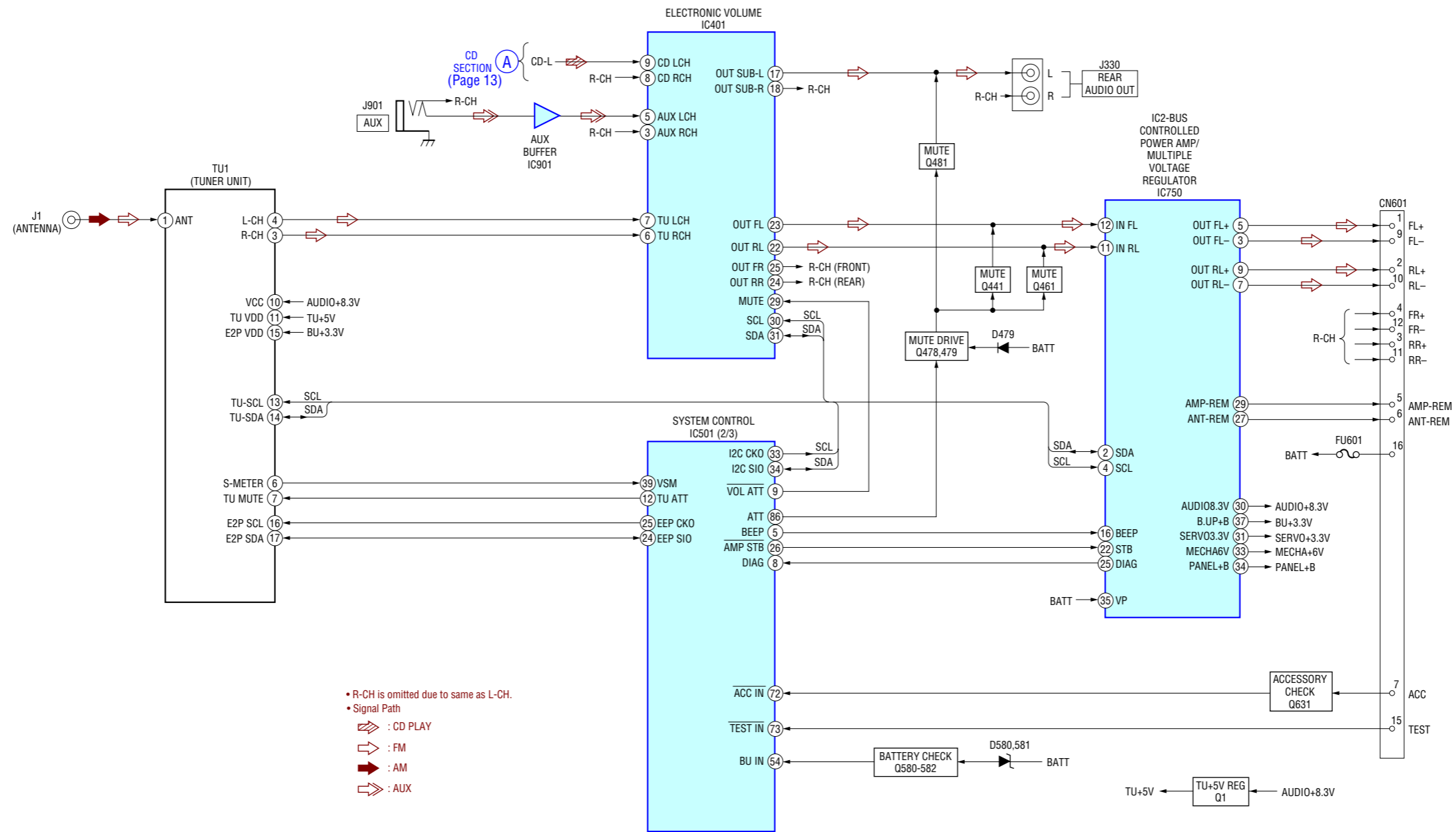


SECTION 3 DIAGRAMS

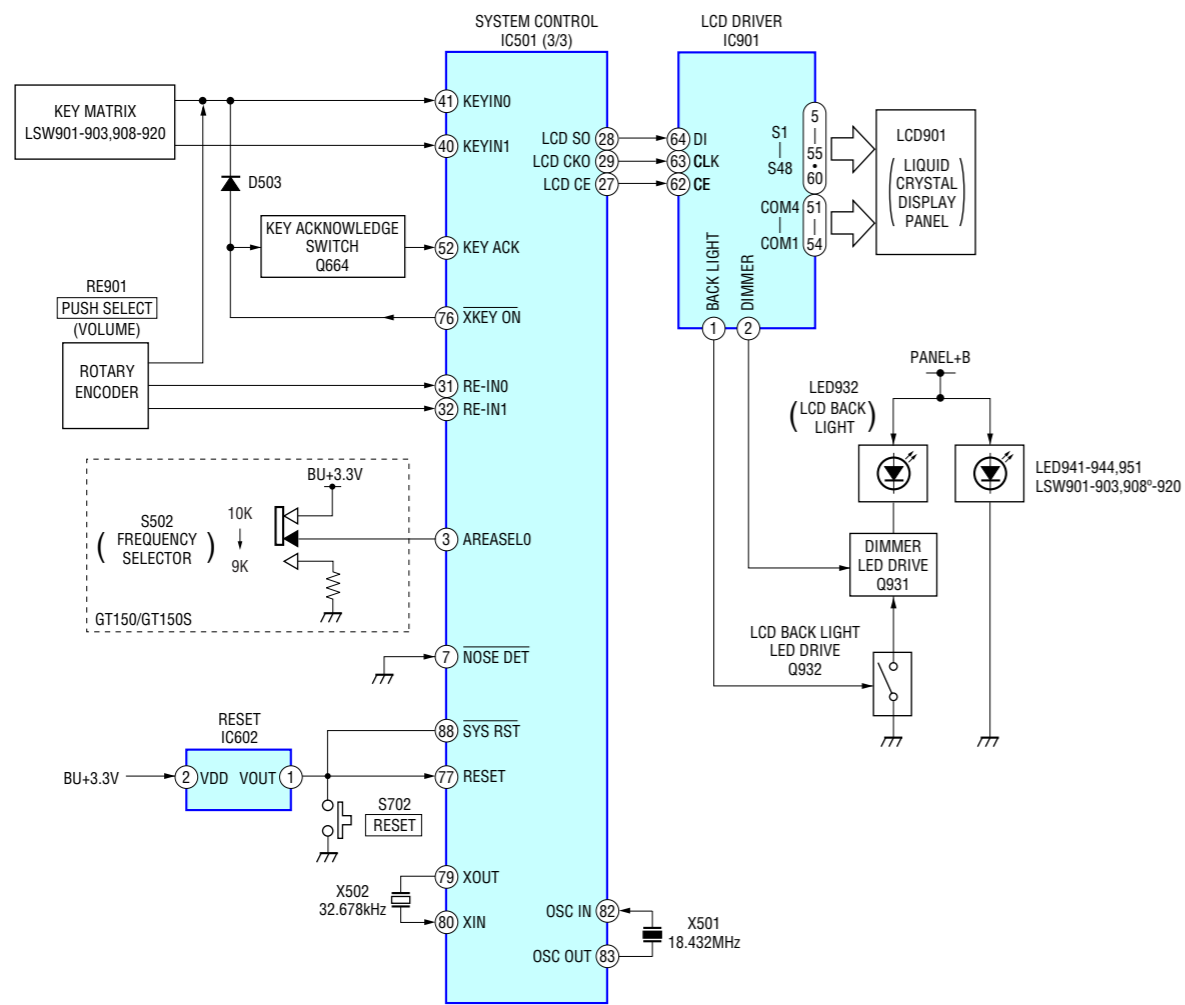
3-1. BLOCK DIAGRAM — CD SECTION —



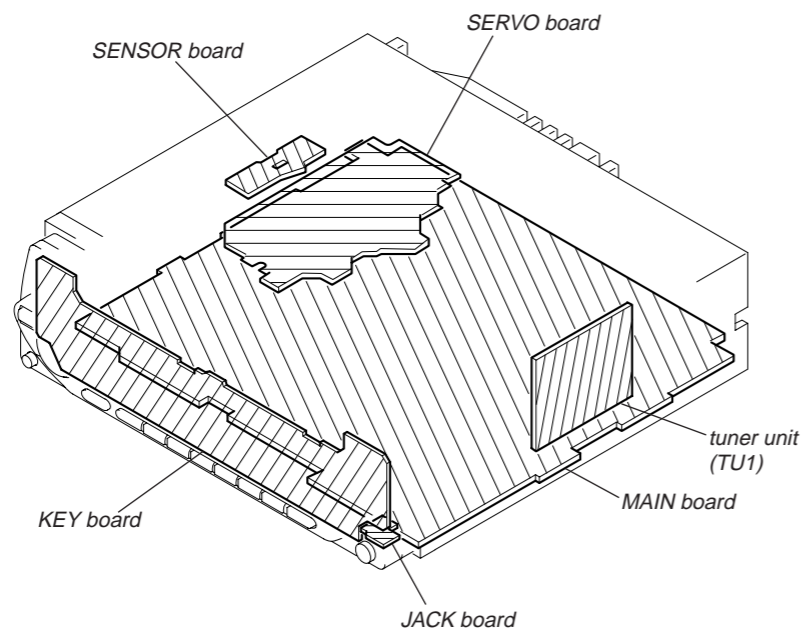
3-2. BLOCK DIAGRAM — MAIN SECTION —



3-3. BLOCK DIAGRAM — DISPLAY SECTION —



3-4. CIRCUIT BOARDS LOCATION



• NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

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 diagrams.

- Note:**
- All capacitors are in μF unless otherwise noted. (p: pF) 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.
 - Δ : internal component.
 - \square : panel designation.

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

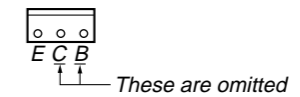
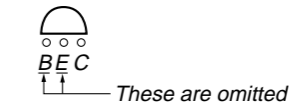
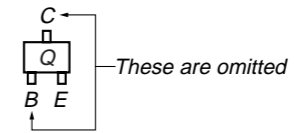
Note:
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- --- : B+ Line.
- --- : B- Line.
- --- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- CD mechanism section
no mark : CD PLAY
() : AM
< > : CD PLAY
* : Impossible to measure
- Voltages are taken with a VOM (Input impedance $10\text{ M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - \Rightarrow : CD PLAY
 - \Rightarrow : FM
 - \Rightarrow : AM
 - \Rightarrow : AUX

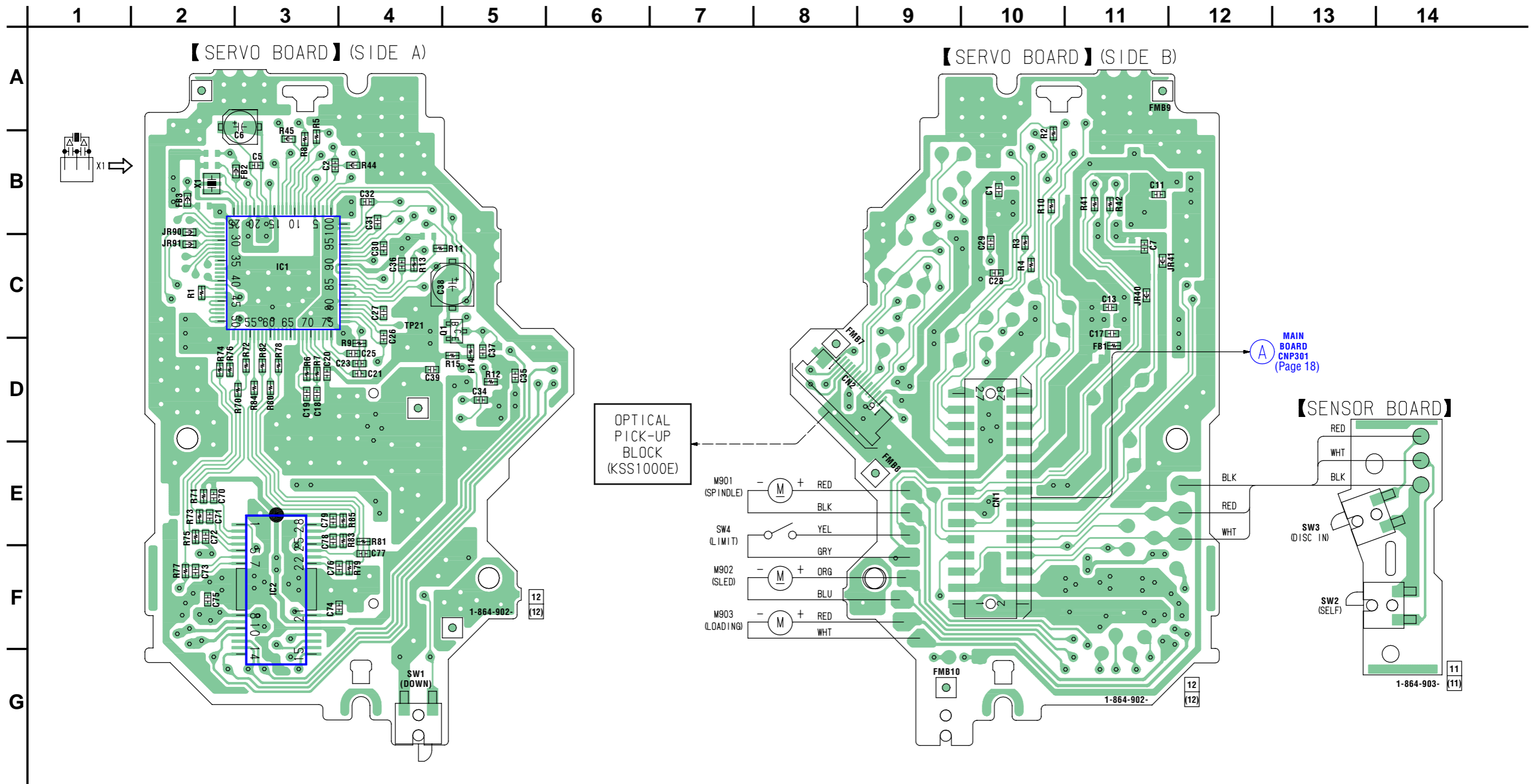
For printed wiring boards.

- Note:**
- \circ : parts extracted from the component side.
 - --- : parts extracted from the conductor side.
 - \circ : Through hole.
 - --- : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

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

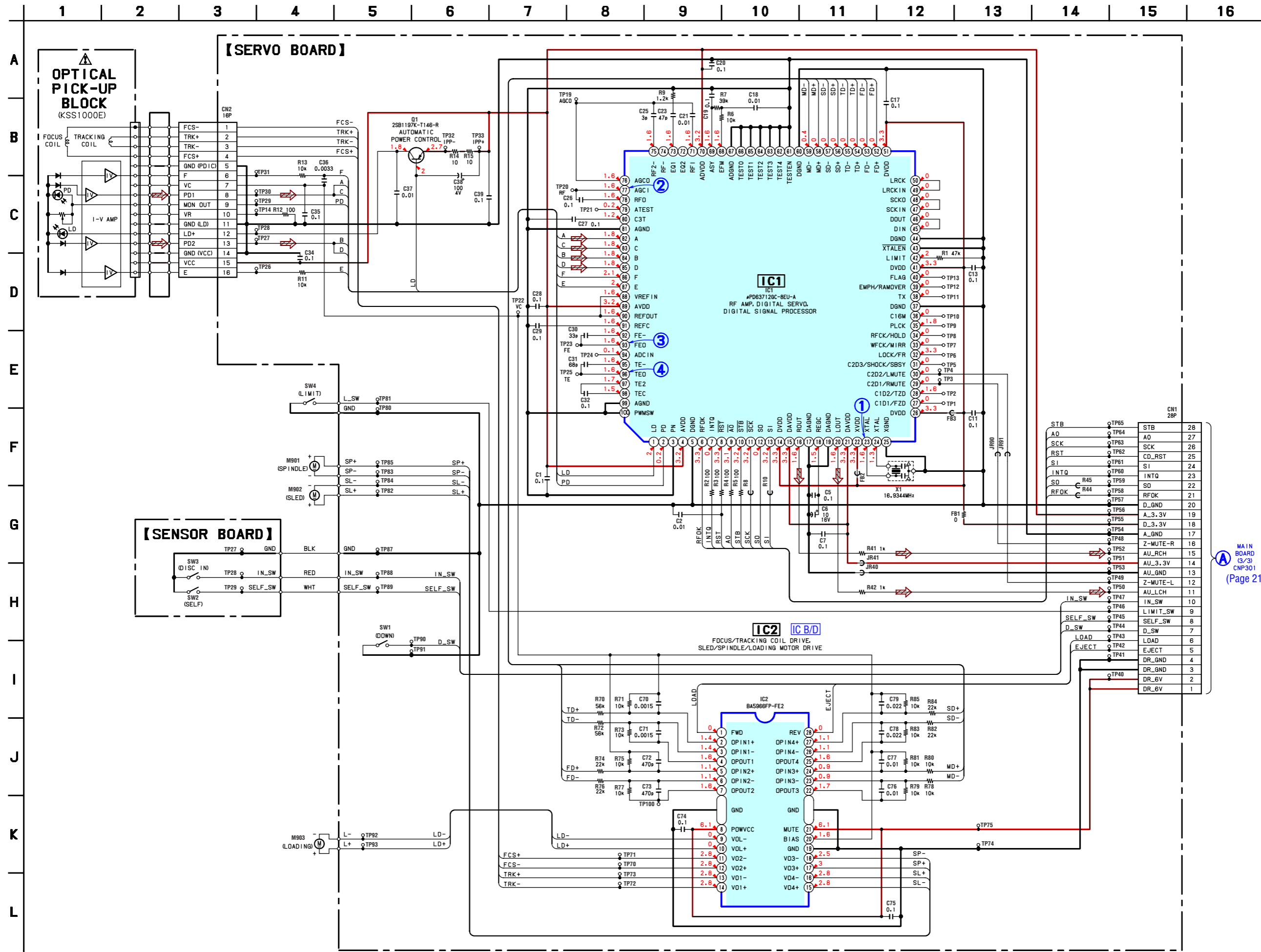


3-5. PRINTED WIRING BOARDS — CD MECHANISM SECTION — • Refer to page 15 for Circuit Boards Location.  : Uses unleaded solder.



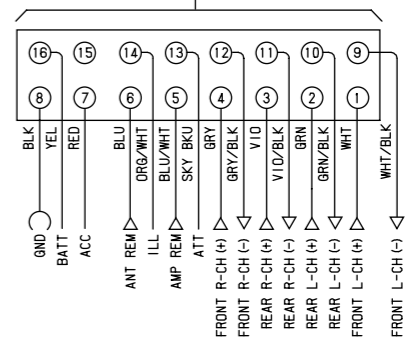
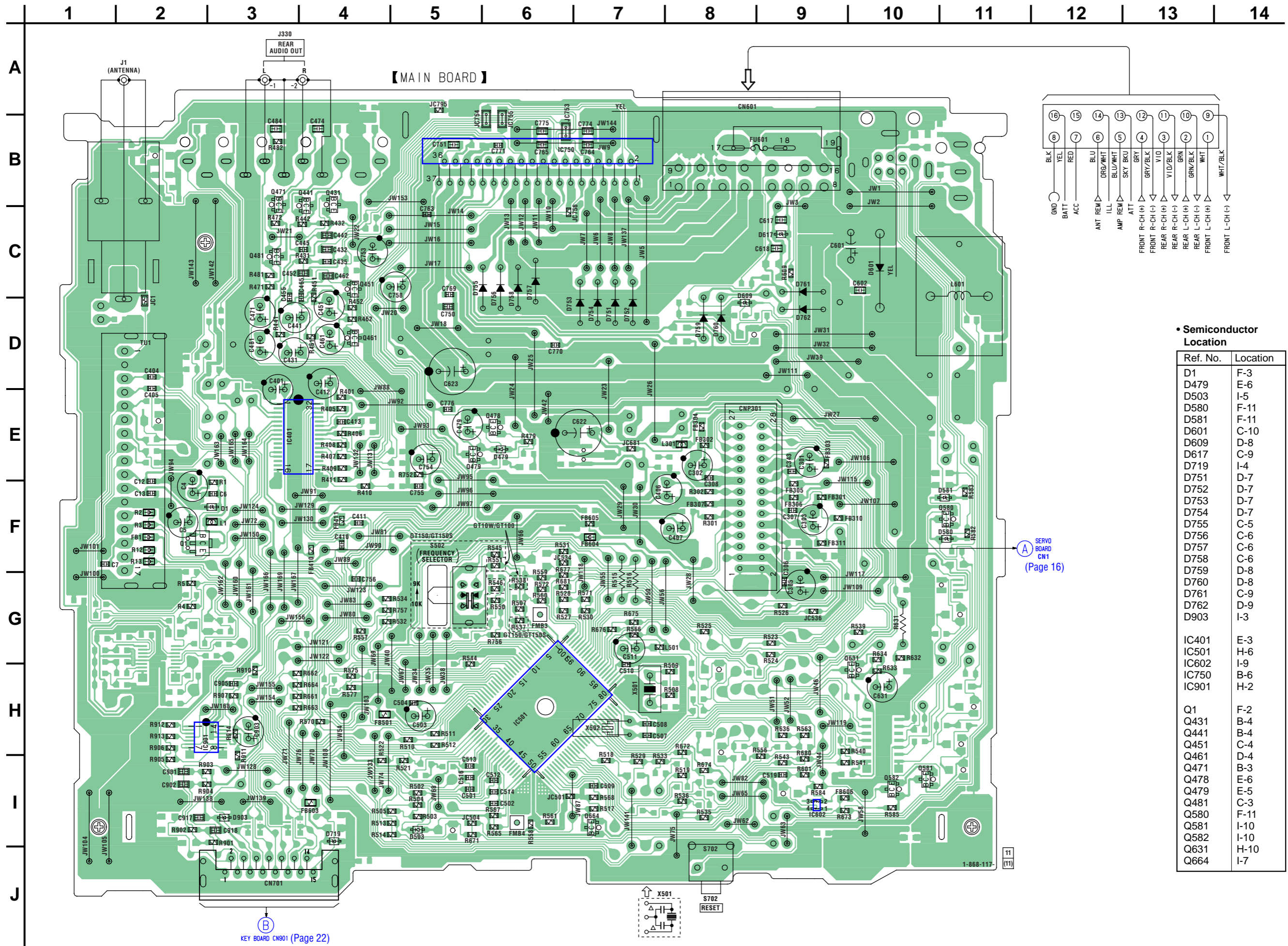
3-6. SCHEMATIC DIAGRAM — CD MECHANISM SECTION —

- Refer to page 24 for Waveforms.
- Refer to page 27 for IC Pin Description.
- Refer to page 24 for IC Block Diagrams.



MAIN BOARD (3/3) CNP301 (Page 21)

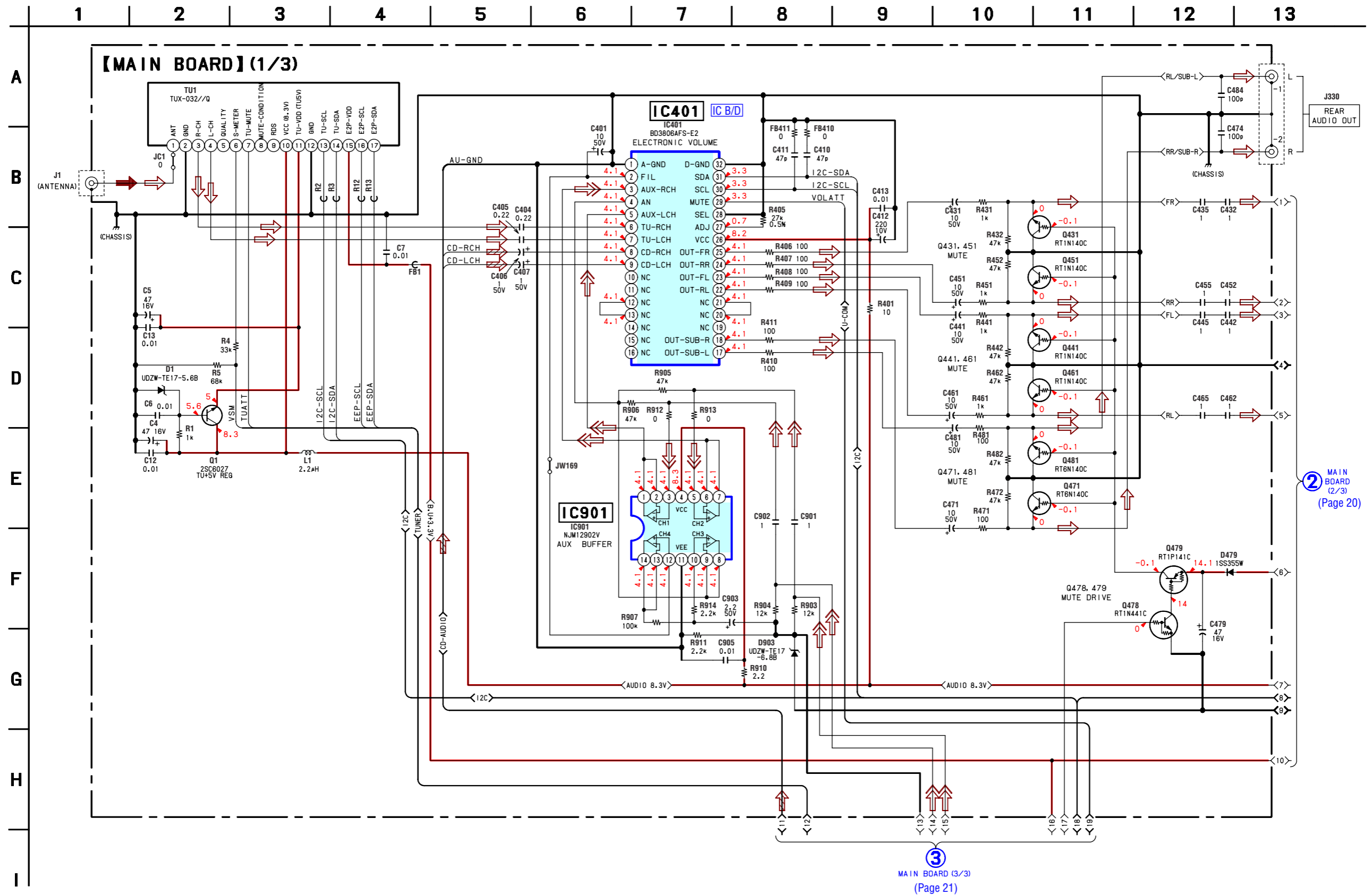
3-7. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 15 for Circuit Boards Location.  : Uses unleaded solder.



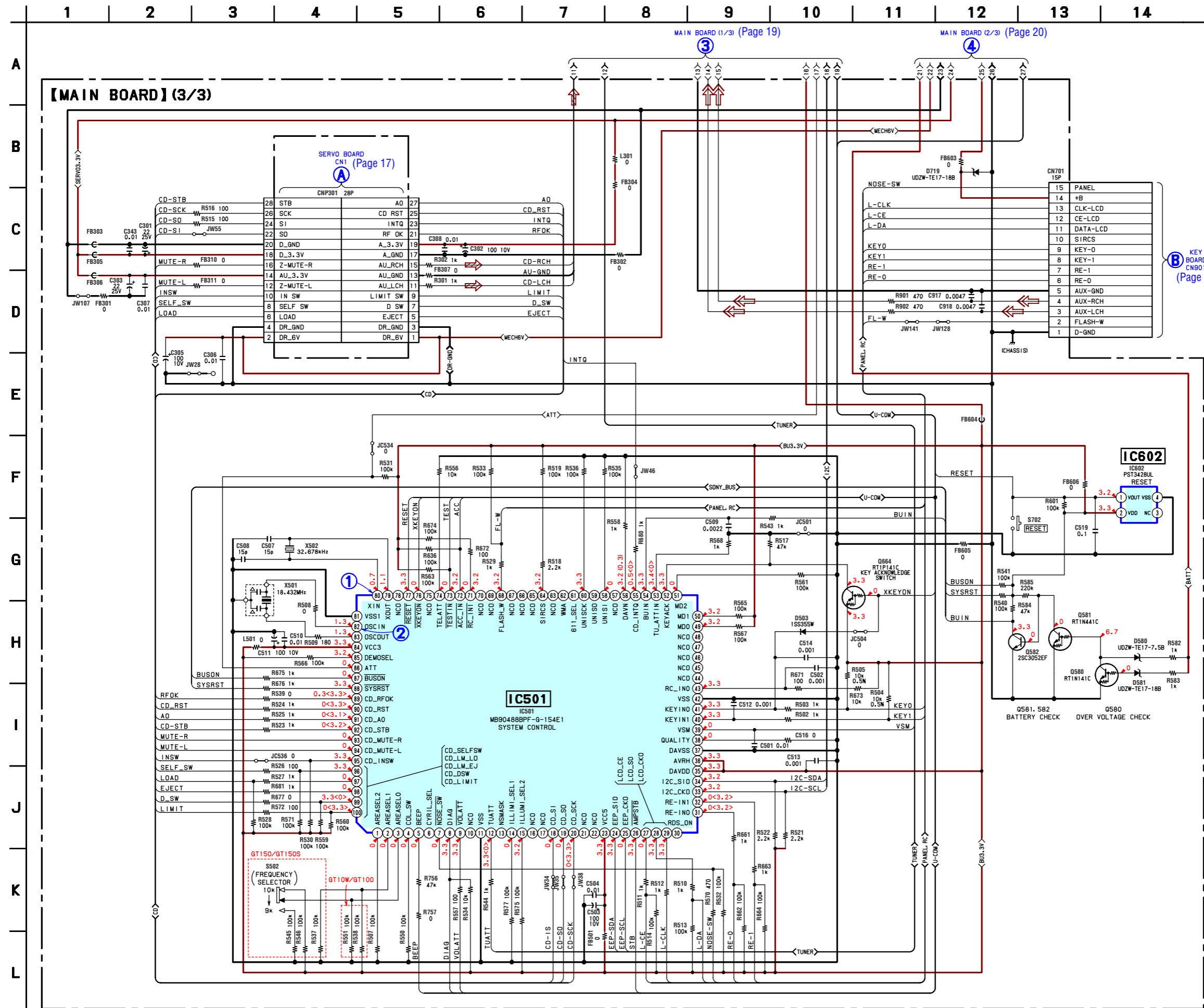
• Semiconductor Location


Ref. No.	Location
D1	F-3
D479	E-6
D503	I-5
D580	F-11
D581	F-11
D601	C-10
D609	D-8
D617	C-9
D719	I-4
D751	D-7
D752	D-7
D753	D-7
D754	D-7
D755	C-5
D756	C-6
D757	C-6
D758	C-6
D759	D-8
D760	D-8
D761	C-9
D762	D-9
D903	I-3
IC401	E-3
IC501	H-6
IC602	I-9
IC750	B-6
IC901	H-2
Q1	F-2
Q431	B-4
Q441	B-4
Q451	C-4
Q461	D-4
Q471	B-3
Q478	E-6
Q479	E-5
Q481	C-3
Q580	F-11
Q581	I-10
Q582	I-10
Q631	H-10
Q664	I-7

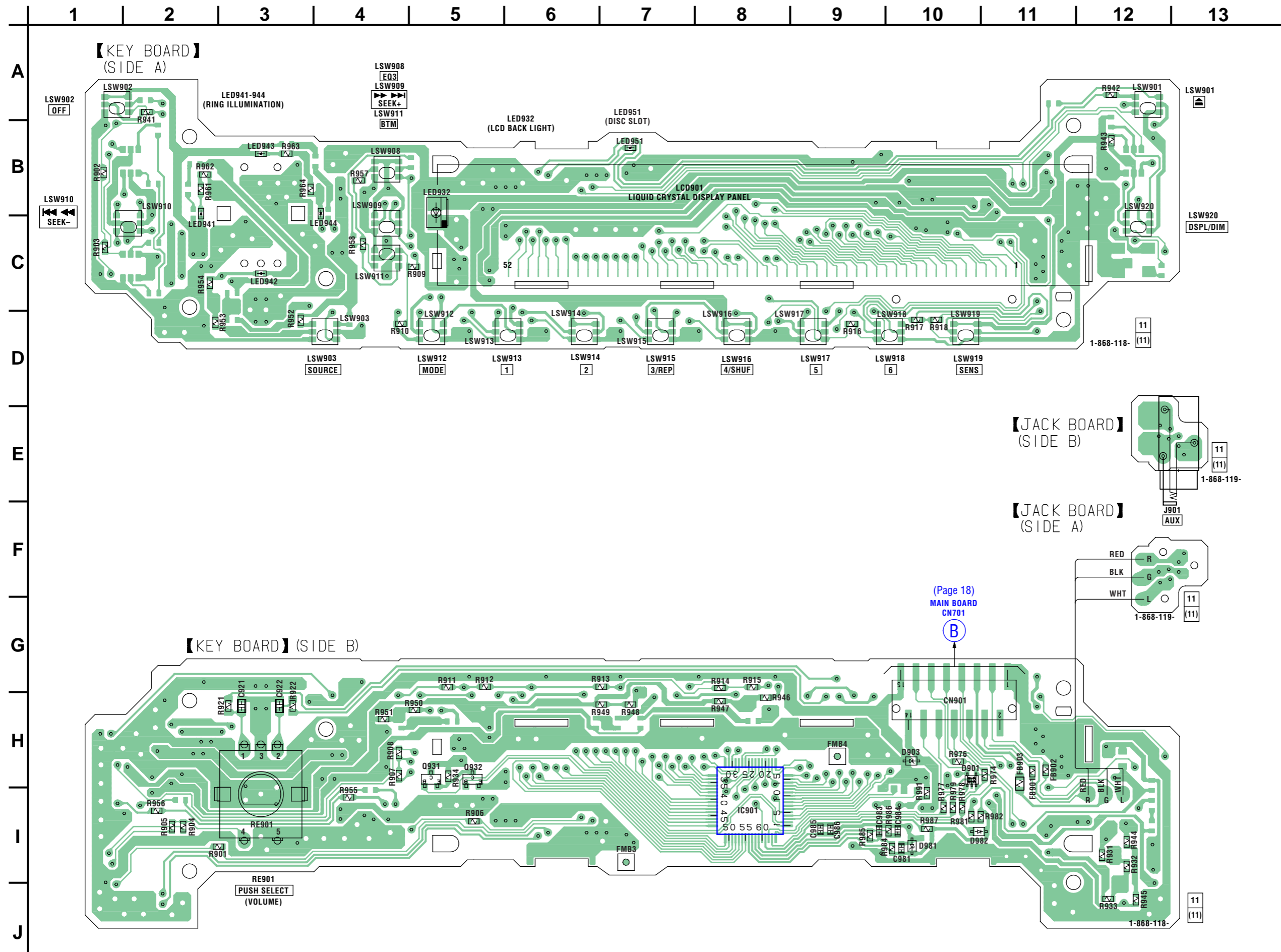
3-8. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) — • Refer to page 25 for IC Block Diagrams.



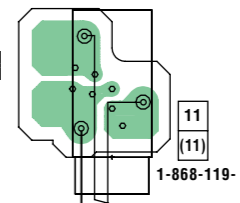
3-10. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) — Refer to page 29 for IC Pin Description. Refer to page 24 for Waveforms.



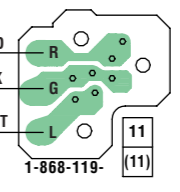
3-11. PRINTED WIRING BOARDS — KEY SECTION — • Refer to page 15 for Circuit Boards Location.  : Uses unleaded solder.



【JACK BOARD】 (SIDE B)



【JACK BOARD】 (SIDE A)

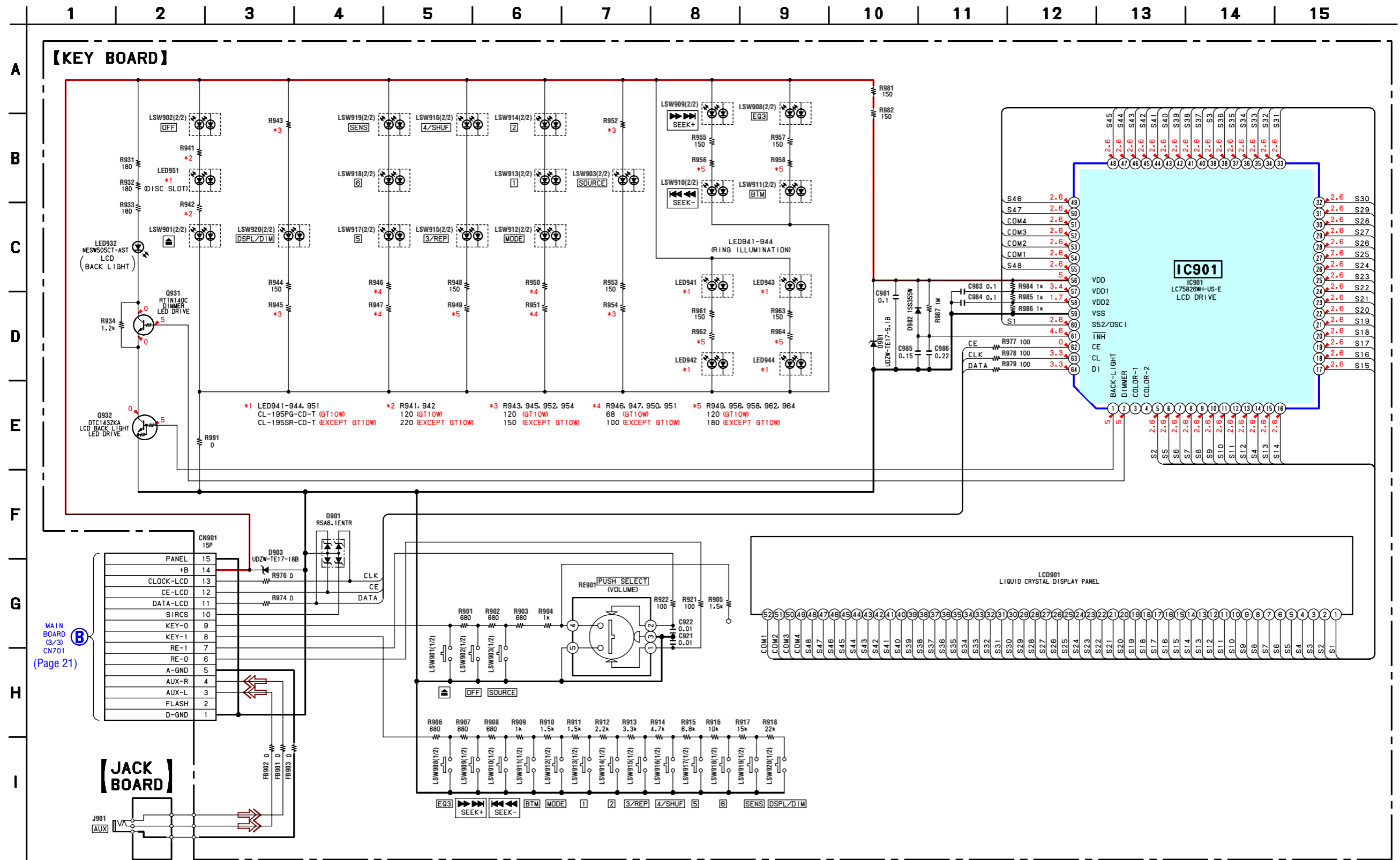


(Page 18)
MAIN BOARD
CN701
B

• Semiconductor Location

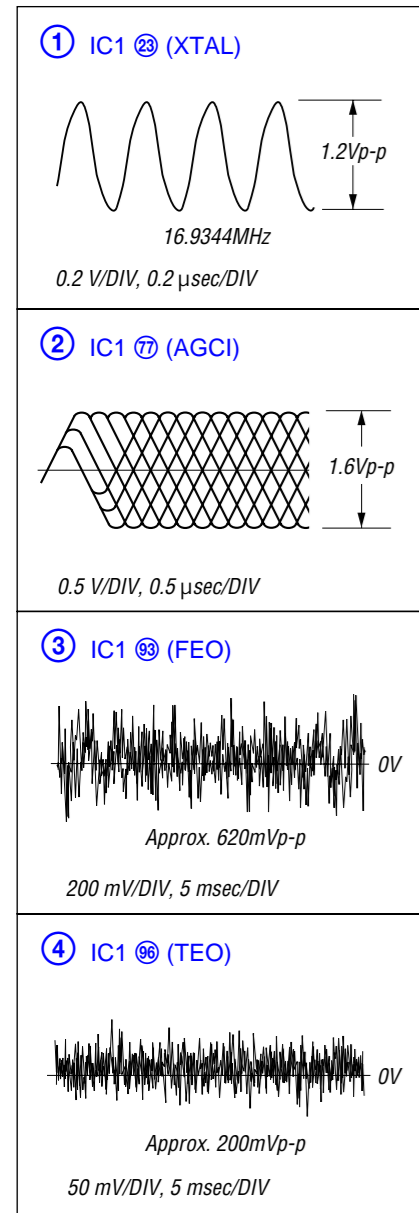
Ref. No.	Location
D901	H-10
D903	H-10
D981	I-10
D982	I-10
IC901	I-8
LED932	B-5
LED941	C-2
LED942	C-3
LED943	B-3
LED944	C-4
LED951	B-7
Q931	H-5
Q932	H-5

3-12. SCHEMATIC DIAGRAM — KEY SECTION —

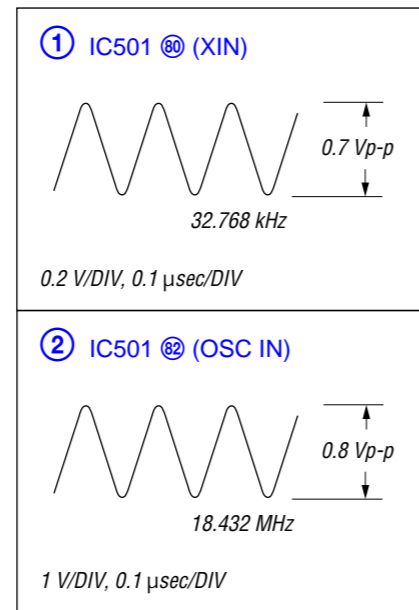


• WAVEFORMS

— SERVO BOARD — (CD PLAY)

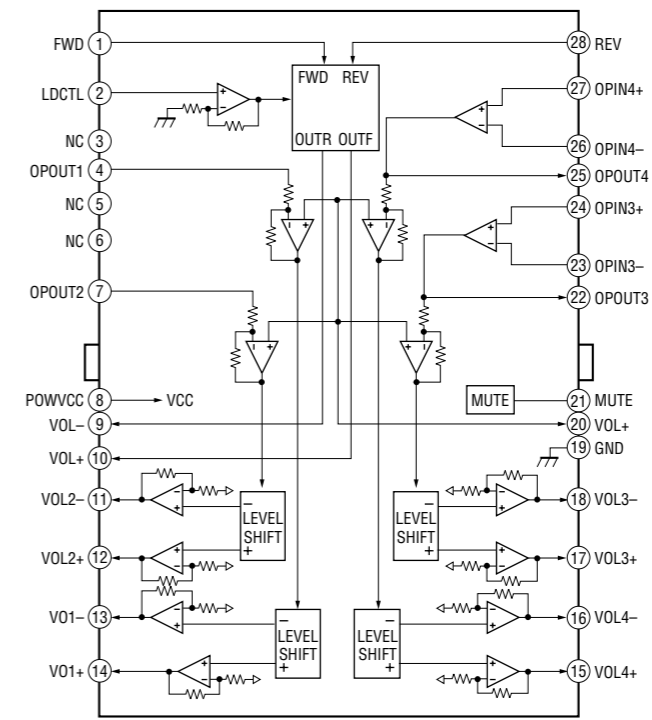


— MAIN BOARD —

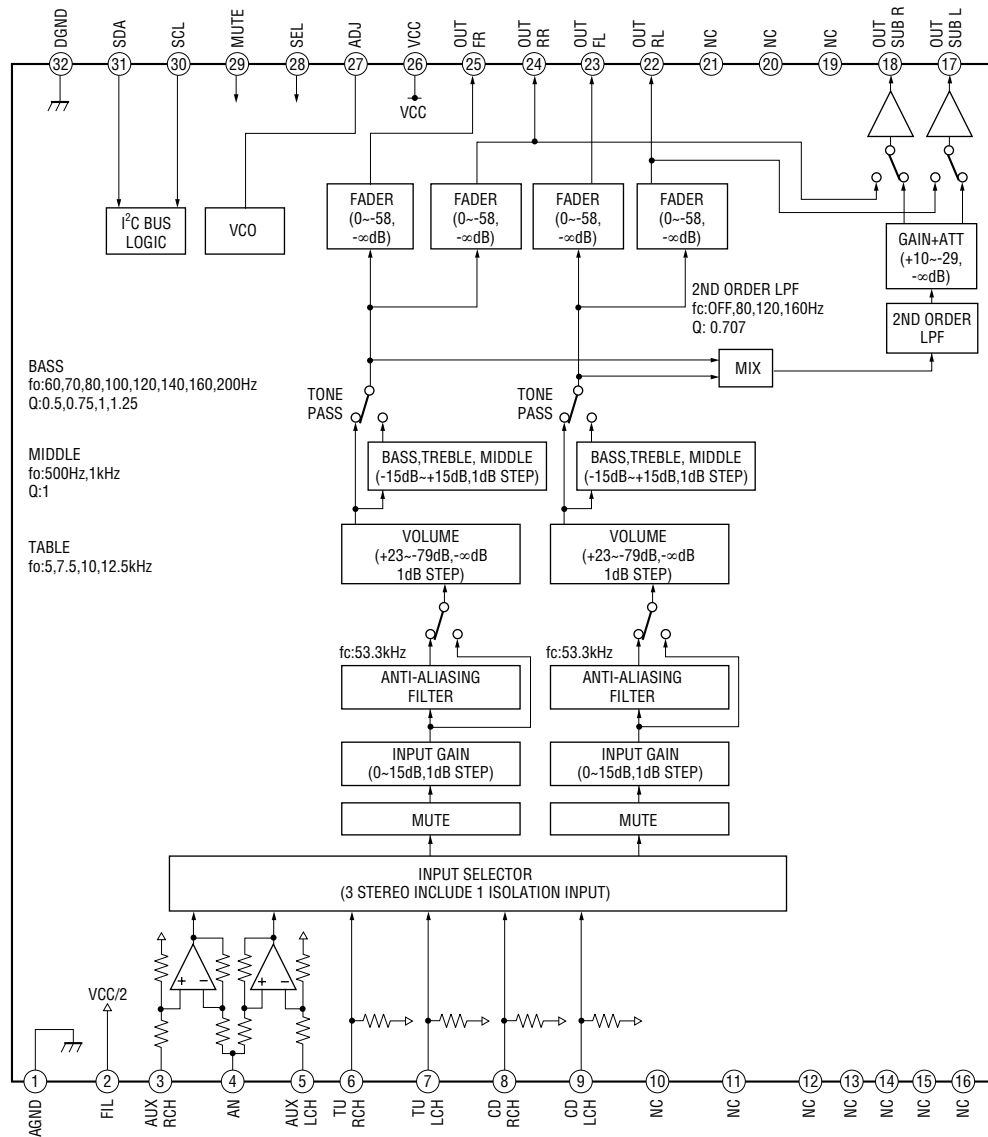


• IC BLOCK DIAGRAMS

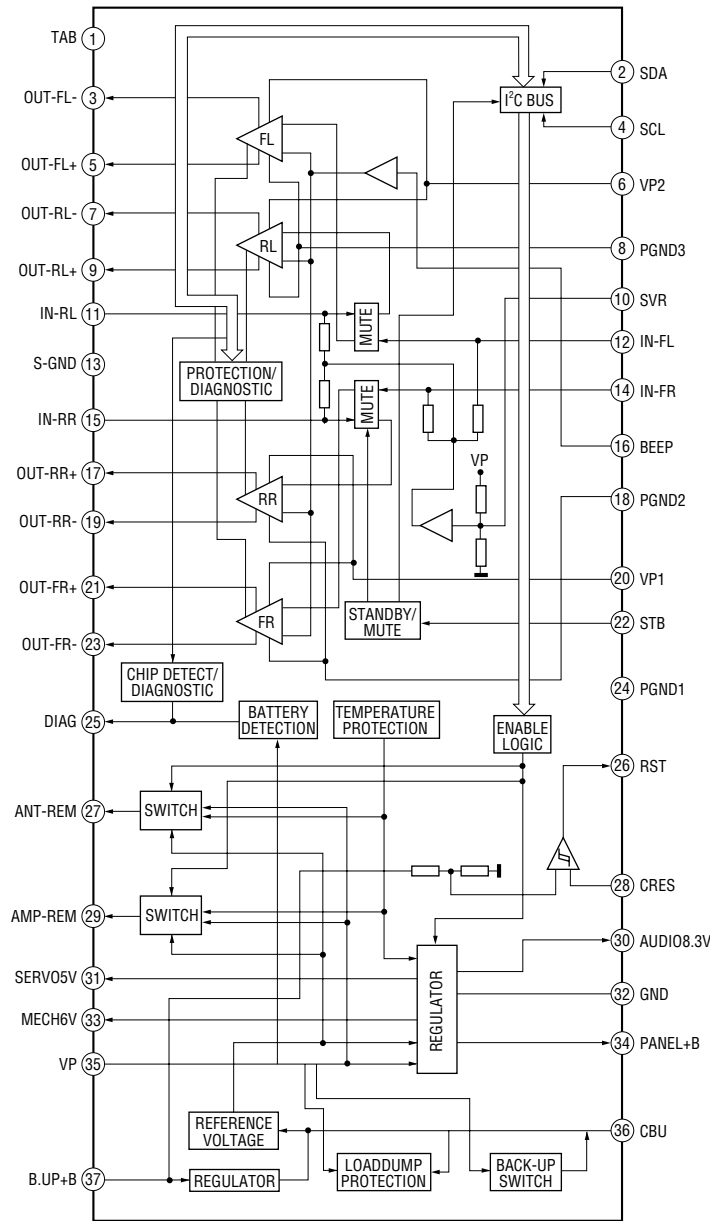
IC2 BA5966FP-FE2 (SERVO Board)



IC401 BD3806AFS-E2 (MAIN Board (1/3))



IC750 TDA8588BJ/N2/R1 (GT10W/GT100/GT150) (MAIN Board (2/3))
 IC750 TDA8589BJ/N2/R1 (GT150S) (MAIN Board (2/3))



• IC PIN DESCRIPTIONS

IC1 μ PD63712GC-8EU-A (RF AMP, DIGITAL SERVO, DIGITAL SIGNAL PROCESSOR) (SERVO BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	LD	O	Laser diode ON/OFF control signal output (L: laser OFF, H: laser ON)
2	PD	I	Dimmer monitor input from optical pick-up laser diode.
3	PN	I	Not used. (Fixed at L in this set.)
4	AVDD	—	Analog power supply pin (+3.3 V)
5	DGND	—	Ground pin
6	RFOK	O	RFOK signal output to system control IC.
7	INTQ	O	CD text pack synchronization signal output to system control IC.
8	$\overline{\text{RST}}$	I	CD reset signal input from system control IC.
9	$\overline{\text{A0}}$	I	Command/parameter discrimination signal input from system control IC. (L: command transmission, H: parameter transmission)
10	$\overline{\text{STB}}$	I	Data strobe signal input from system control IC.
11	SCK	I	Serial clock signal input from system control IC.
12	SO	O	Serial data signal output to system control IC.
13	SI	I	Serial data signal input from system control IC.
14	DVDD	—	Power supply pin (+3.3 V)
15	DAVDD	—	D/A converter power supply (+) pin (+3.3 V)
16	ROUT	O	Analog audio signal output (R-ch)
17	DAGND	—	Ground pin
18	REGC	—	Capacitor connection pin for SCF regulator.
19	DAGND	—	Ground pin
20	LOUT	O	Analog audio signal output (L-ch)
21	DAVDD	—	D/A converter power supply (+) pin (+3.3 V)
22	XVDD	—	Power supply pin (+3.3 V)
23	XTAL	O	Main system clock output (16.9344 MHz)
24	XTAL	I	Main system clock input (16.9344 MHz)
25	XGND	—	Ground pin
26	DVDD	—	Power supply pin (+3.3 V)
27	C1D1/FZD	O	Not used. (Open)
28	C1D2/TZD	O	Not used. (Open)
29	C2D1/RMUTE	O	CD R-ch data zero detection signal output
30	C2D2/LMUTE	O	CD L-ch data zero detection signal output
31	C2D3/SHOCK/SBSY	O	Not used. (Open)
32	LOCK/FR	O	Not used. (Open)
33	WFCK/MIRR	O	Not used. (Open)
34	RFCK/HOLD	O	Not used. (Open)
35	PLCK	O	Not used. (Open)
36	C16M	O	Not used. (Open)
37	DGND	—	Ground pin
38	TX	O	Not used. (Open)
39	EMPH/RAMOVER	O	Not used. (Open)
40	FLAG	O	Not used. (Open)
41	DVDD	—	Power supply pin (+3.3 V)
42	LIMIT	I	Not used. (Fixed at L in this set.)
43	$\overline{\text{XTALEN}}$	I	Oscillation circuit ON/OFF control signal input (L: ON, H: OFF) (Fixed at L in this set.)
44	DGND	—	Ground pin
45	DIN	I	Not used. (Connect to DOUT in this set.)
46	DOUT	O	Not used. (Connect to DIN in this set.)
47	SCKIN	I	Not used. (Connect to SCKO in this set.)
48	SCKO	O	Not used. (Connect to SCKIN in this set.)
49	LRCKIN	I	Not used. (Connect to LRCK in this set.)

CDX-GT10W/GT100/GT150/GT150S

Pin No.	Pin Name	I/O	Pin Description
50	LRCK	O	Not used. (Connect to LRCKIN in this set.)
51	DVDD	—	Power supply pin (+3.3 V)
52	FD+	O	Focus servo drive PWM signal output (+)
53	FD-	O	Focus servo drive PWM signal output (-)
54	TD+	O	Tracking servo drive PWM signal output (+)
55	TD-	O	Tracking servo drive PWM signal output (-)
56	SD+	O	Sled servo drive PWM signal output (+)
57	SD-	O	Sled servo drive PWM signal output (-)
58	MD+	O	Spindle servo drive PWM signal output (+)
59	MD-	O	Spindle servo drive PWM signal output (-)
60	DGND	—	Ground pin
61	TESTEN	I	Test setting input (Fixed at L in this set.)
62 to 66	TEST4 to TEST0	I	Test setting input (Fixed at L in this set.)
67	ADGND	—	A/D converter power supply (-) pin
68	EFM	O	EFM signal output
69	ASY	I	EFM comparator reference voltage input
70	ADVDD	—	A/D converter power supply pin (+3.3 V)
71	RFI	I	RF signal input for EFM data growing.
72	EQ2	—	Not used. (Open)
73	EQ1	—	RF amplifier equalizer parts connection pin
74	RF-	I	Not used. (Open)
75	RF2-	I	RF amplifier inversion input
76	AGCO	O	RF signal output after on AGC.
77	AGCI	I	RF AGC signal amplifier input
78	RFO	O	RF signal output before on AGC.
79	ATEST	I	Not used. (Open)
80	C3T	—	Capacitor connection pin for 3T detection.
81	AGND	—	Ground pin
82	A	I	Signal input (A) from optical pick-up detector.
83	C	I	Signal input (C) from optical pick-up detector.
84	B	I	Signal input (B) from optical pick-up detector.
85	D	I	Signal input (D) from optical pick-up detector.
86	F	I	Signal input (F) from optical pick-up detector.
87	E	I	Signal input (E) from optical pick-up detector.
88	VREFIN	I	Reference voltage (+1.65 V) input
89	AVDD	—	Analog power supply pin (+3.3 V)
90	REFOUT	O	Reference voltage (+1.65 V) output
91	REFC	—	Capacitor connection pin for reference voltage output.
92	FE-	I	Focus error signal amplifier inversion input
93	FEO	O	Focus error signal amplifier output
94	ADCIN	I	Not used. (Open)
95	TE-	I	Tracking error signal amplifier inversion input
96	TEO	O	Tracking error signal amplifier before output
97	TE2	O	Tracking error signal amplifier after output
98	TEC	I	Tracking error signal comparator input
99	AGND	—	Ground pin
100	PWMSW	I	Not used. (Fixed at L in this set.)

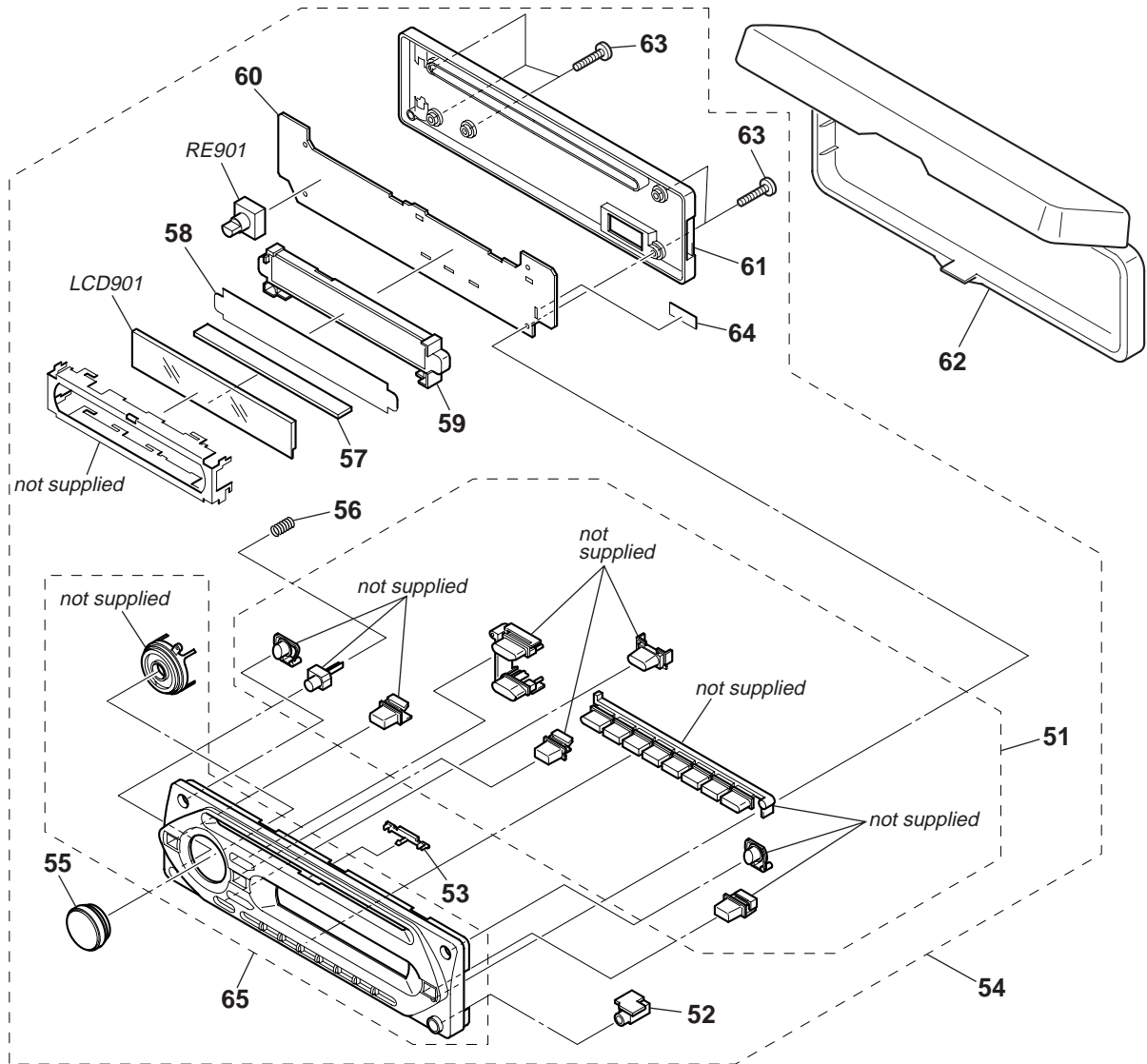
IC501 MB90487APF-G-155 (SYSTEM CONTROL) (MAIN BOARD (3/3))

Pin No.	Pin Name	I/O	Pin Description
1	AREASEL2	I	Destination setting pin
2	AREASEL1	I	Destination setting pin
3	AREASEL0	I	Destination setting pin
4	COL SW	I	Illumination color select signal input
5	BEEP	O	Beep signal output
6	CYRIL SEL	I	Cyril select signal input Not used in this set. (Open)
7	NOSE SW	I	Front panel open/close detect signal input Not used in this set.
8	DIAG	I	Power AMP status signal input
9	VOL ATT	O	Electronic volume attenuate control signal output
10	NCO	O	Not used. (Open)
11	VSS	—	Ground pin
12	TU ATT	O	Tuner mute control signal output
13	NS MASK	O	Noise mask signal output Not used in this set. (Open)
14	ILLUMI SEL1	I	Illumination voltage setting signal input 1
15	ILLUMI SEL2	I	Illumination voltage setting signal input 2
16, 17	NCO	O	Not used. (Open)
18	CD SI	I	CD servo serial data signal input
19	CD SO	O	CD servo serial data signal output
20	CD SCK	O	CD servo serial clock signal output
21, 22	NCO	O	Not used. (Open)
23	VCC5	—	Power supply pin (+3.3 V)
24	EEP SIO	I/O	EEPROM bus serial data input/output
25	EEP CKO	O	EEPROM bus serial clock output
26	AMP STB	O	Power AMP satandby signal output
27	LCD CE	O	LCD driver chip enable signal output
28	LCD SO	O	LCD driver serial data signal output
29	LCD SCK	O	LCD driver serial clock signal output
30	RDS ON	O	RDS ON signal output Not used in this set. (Open)
31	RE IN0	I	Rotary encoder signal input 0
32	RE IN1	I	Rotary encoder signal input 1
33	I2C CKO	O	I2C bus serial clock signal output
34	I2C SIO	I/O	I2C bus serial data signal input/output
35	DAVDD	—	A/D converter power supply pin (+3.3 V)
36	AVRH	—	A/D converter external reference power supply pin (+3.3 V)
37	DAVSS	—	Ground pin
38	QUALITY	I	Noise detect signal input Not used in this set.
39	VSM	I	S-meter voltage detect signal input
40	KEY IN1	I	Key signal input 1
41	KEY IN0	I	Key signal input 0
42	VSS	—	Ground pin
43	RC IN0	I	Rotary commander key signal input
44 to 48	NCO	O	Not used. (open)
49	MD0	I	Operation mode setting pin (Connect to VDD.)
50	MD1	I	Operation mode setting pin (Connect to VDD.)
51	MD2	I	Operation mode setting pin (Connect to VSS.)

CDX-GT10W/GT100/GT150/GT150S

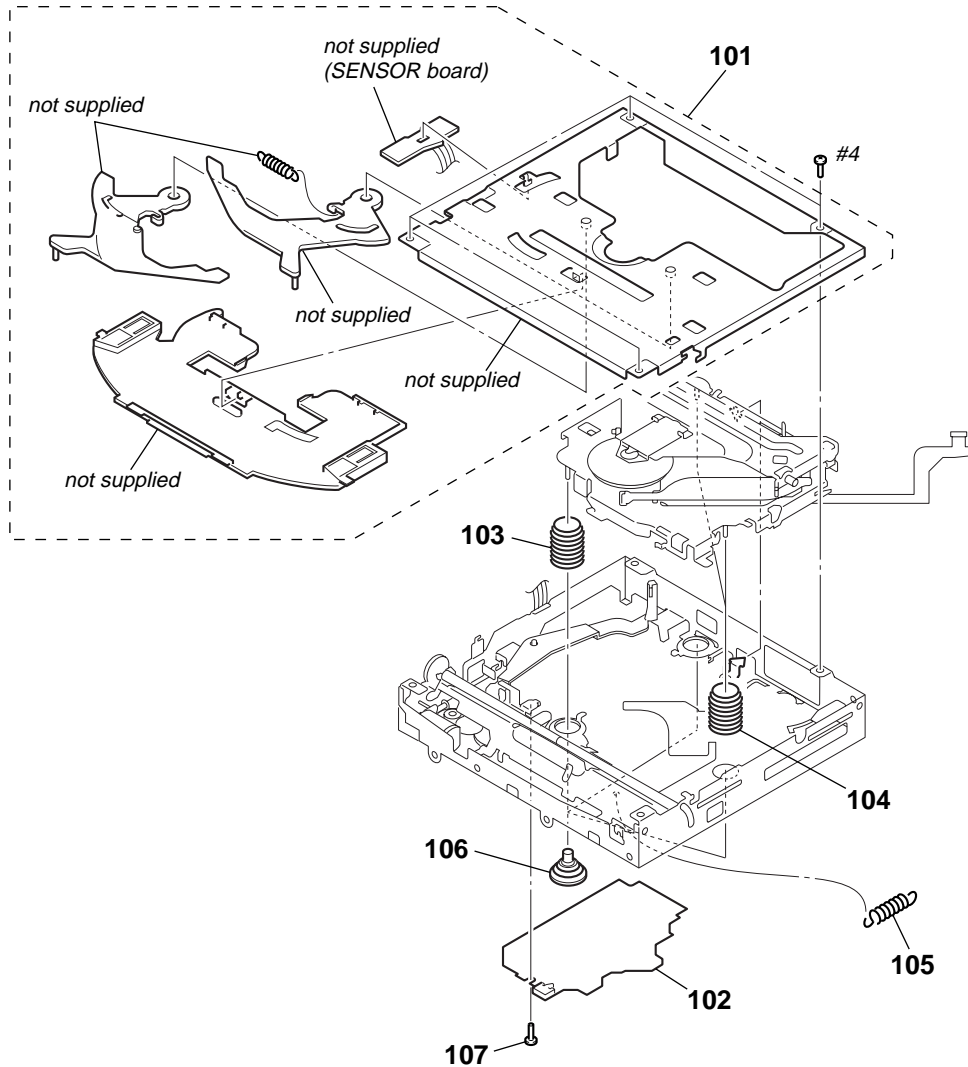
Pin No.	Pin Name	I/O	Pin Description
52	KEY ACK	I	Key acknowledgment detect signal input
53	TU ATT IN	I	Tuner mute zero cross detect signal input
54	BU IN	I	Back-up power supply detect signal input
55	CD INTQ	I	CD servo text pack synchronization signal input
56	DAVN	I	RDS data block synchronized detect signal input Not used in this set.
57	NCO	O	Not used. (Open)
58	UNISI	I	SONY bus data signal input Not used in this set.
59	UNI SO	O	SONY bus data signal output Not used in this set. (Open)
60	UNI SCK	O	SONY bus clock signal output Not used in this set.
61	611 SEL	I	Mechanism deck select signal input Not used in this set. (Open)
62	WMA	I	WMA select signal input Not used in this set. (Open)
63	NCO	O	Not used. (Open)
64	SIRCS	I	Remote control signal input Not used in this set.
65 to 67	NCO	O	Not used. (Open)
68	FLASH W	I	Memory mode select signal input Not used in this set.
69, 70	NCO	O	Not used. (Open)
71	RC IN1	I	Rotary commander shift key signal input Not used in this set.
72	ACC IN	I	Accessory power supply detect signal input
73	TEST IN	I	Test mode detect signal input
74	TEL ATT	I	Telephone attenuate detect signal input Not used in this set.
75	NCO	O	Not used. (Open)
76	XKEY ON	O	A/D converter power supply control signal output
77	RESET	I	CPU reset signal input
78	NCO	O	Not used. (Open)
79	XOUT	O	Sub-clock output (32.768 kHz)
80	XIN	I	Sub-clock input (32.768 kHz)
81	VSS1	—	Ground pin
82	OSC IN	I	Main-clock input (3.68 MHz)
83	OSC OUT	O	Main-clock output (3.68 MHz)
84	VCC3	—	Power supply pin (+3.3 V)
85	DEMOSEL	I	DEMO select signal input
86	ATT	O	Audio mute control signal output
87	BUS ON	O	Bus on signal output
88	SYS RST	O	System reset signal output
89	CD RFOK	O	Shutter open information signal output to CD mechanism
90	CD RST	O	CD servo reset signal output
91	CD A0	O	CD servo command/parameter signal output
92	CD STB	O	CD servo data strob signal output
93	CD MUTE R	I	CD mechanism zero cross mute detect signal input R
94	CD MUTE L	I	CD mechanism zero cross mute detect signal input L
95	CD INSW	I	Cd mechanism disc in switch detect signal input
96	CD SELFSW	I	CD self switch signal input
97	CD LM LO	O	CD mechanism loading motor (+6 V) control signal output
98	CD LM EJ	O	CD mechanism eject motor control signal output
99	CD DSW	I	CD mechanism disc in switch detect signal input
100	CD LIMIT	I	CD mechanism limit switch detect signal input

4-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-2067-579-1	BUTTON ASSY (S) (GT10W/GT100/GT150)		61	2-631-511-01	PANEL, FRONT BACK	
51	X-2102-530-1	BUTTON ASSY (S) (GT150S)		62	X-2024-133-3	CASE ASSY (for FRONT PANEL) (EXCEPT US)	
52	A-1134-211-A	JACK BOARD, COMPLETE		63	3-250-543-91	SCREW (+B P-TITE M2)	
53	2-631-526-01	PLATE (CD), LIGHT GUIDE		64	3-040-315-01	COVER (AC OUT)	
54	A-1134-207-A	PANEL ASSY, FRONT (GT100)		65	X-2067-570-1	PANEL SUB ASSY, FRONT (GT100)	
54	A-1134-242-A	PANEL ASSY, FRONT (GT10W)		65	X-2067-571-1	PANEL SUB ASSY, FRONT (GT100W)	
54	A-1134-473-A	PANEL ASSY, FRONT (GT150)		65	X-2067-572-1	PANEL SUB ASSY, FRONT (GT150)	
54	A-1134-487-A	PANEL ASSY, FRONT (GT150S)		65	X-2102-528-1	PANEL SUB ASSY, FRONT (GT150S)	
55	X-2102-729-1	KNOB (VOL) (SV) ASSY		66	3-251-320-01	EMBLEM (No. 2.5), SONY	
56	2-349-626-01	SPRING (RELEASE)		LCD901	1-805-919-11	DISPLAY PANEL, LIQUID CRYSTAL (GT150/GT150S)	
57	1-780-199-11	CONDUCTIVE BOARD, CONNECTION		LCD901	1-805-920-11	DISPLAY PANEL, LIQUID CRYSTAL (GT10W/GT100)	
58	2-634-438-01	ILLUMINATOR (LCD)		RE901	1-478-474-12	ENCODER, ROTARY (PUSH SELECT/VOLUME)	
59	X-2067-569-1	HOLDER (LCD) ASSY					
60	A-1134-209-A	KEY BOARD, COMPLETE (GT100)					
60	A-1134-244-A	KEY BOARD, COMPLETE (GT10W)					
60	A-1134-246-A	KEY BOARD, COMPLETE (GT150/GT150S)					

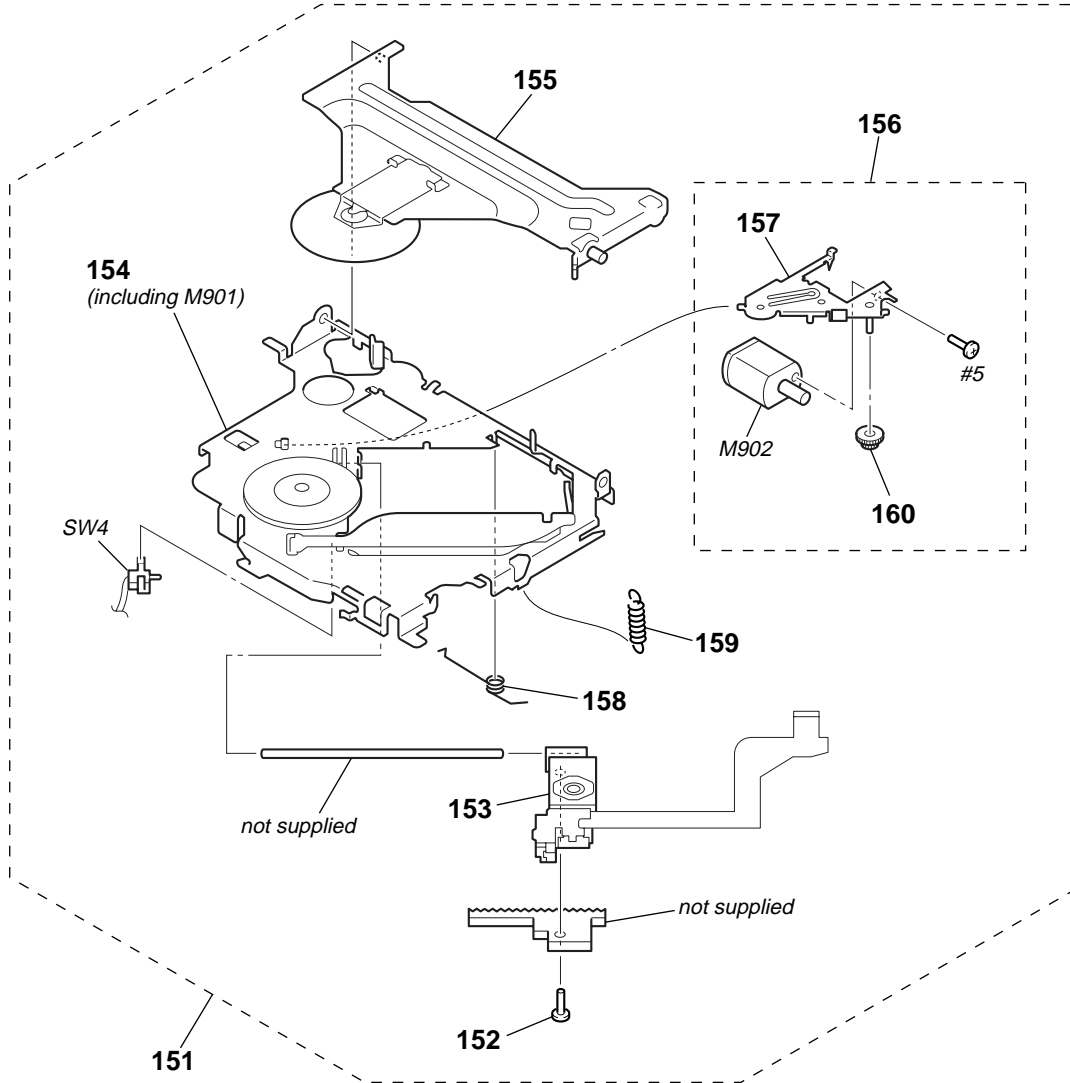
4-3. CD MECHANISM SECTION (1)
(MG-611XE-186//C)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-1088-624-A	CHASSIS (T) SUB ASSY		105	2-345-767-21	SPRING (KF60), TENSION	
102	A-1083-497-A	SERVO BOARD, COMPLETE		106	3-253-748-11	DAMPER (S)	
103	2-345-865-11	SPRING (DAMPER), COMPRESSION (BLACK)		107	3-352-758-31	SCREW (M1.7X2.5), TOOTHED LOCK	
104	2-345-865-01	SPRING (DAMPER), COMPRESSION (NATURAL)		#4	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	

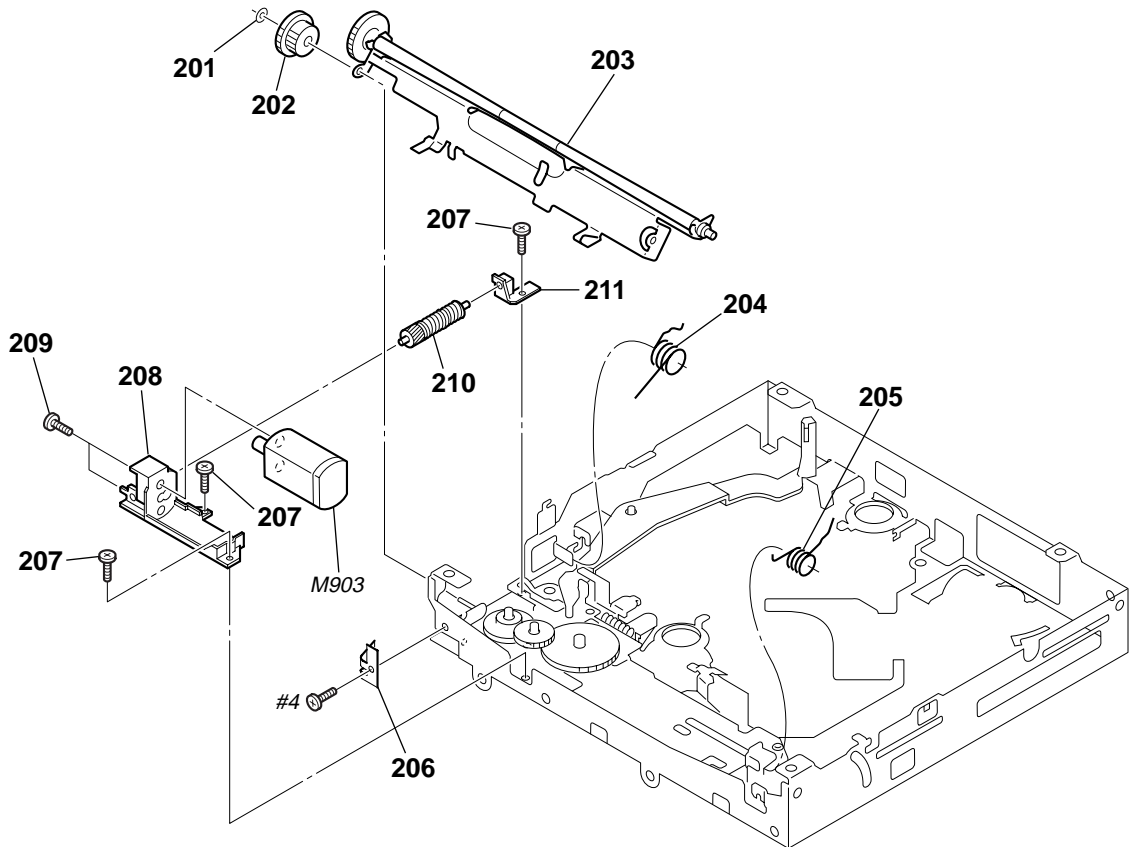
CDX-GT10W/GT100/GT150/GT150S

4-4. CD MECHANISM SECTION (2) (MG-611XE-186//C)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	A-1088-612-A	CHASSIS (OP) COMPLETE ASSY		158	3-261-959-21	SPRING (SL), TORSION	
152	3-316-938-91	SCREW (B1.4X5), TAPPING		159	3-253-736-21	SPRING (CHKG), TENSION	
△ 153	8-820-207-12	OPTICAL PICK-UP (KSS1000E/K1RP)		160	3-253-742-21	WHEEL (SL), WORM	
154	A-1088-615-A	CHASSIS (OP) SUB ASSY (including M901)		M902	A-1088-614-A	MOTOR ASSY, SL (SLED)	
155	A-1088-616-A	ARM SUB ASSY, CHUCKING		SW4	1-786-339-11	SWITCH (M) (LIMIT)	
156	A-1088-613-A	LEVER (SL) SUB ASSY		#5	7-627-850-77	SCREW, PRECISION +P 1.4X1.8	
157	X-2024-784-3	LEVER (SL) ASSY					

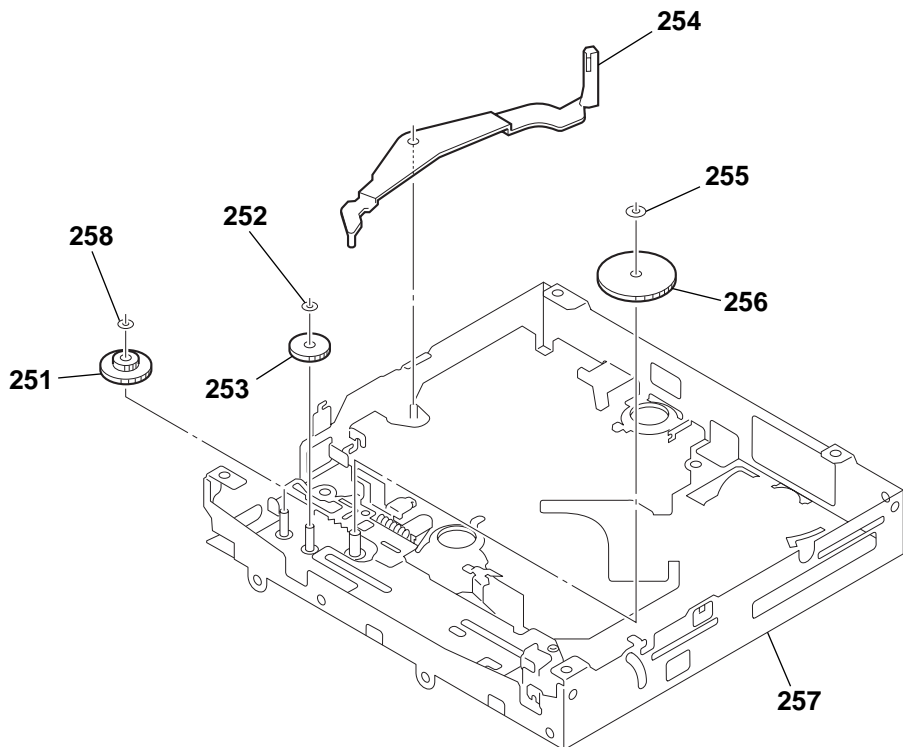
4-5. CD MECHANISM SECTION (3)
(MG-611XE-186//C)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-262-755-11	WASHER (1.1-2.5)		208	2-186-696-21	BRACKET (LEM-N)	
202	2-186-699-21	GEAR (RA1)		209	3-345-648-91	SCREW (M1.4), TOOTHED LOCK	
203	A-1088-618-A	ARM ASSY, ROLLER		210	A-1088-623-A	GEAR (LE) ASSY	
204	3-259-455-21	SPRING (RAL)		211	2-186-697-21	BEARING (LEB-N)	
205	3-253-713-21	SPRING (RAR)		M903	A-1088-622-A	MOTOR ASSY, LE (LOADING)	
206	3-259-469-21	SPRING (LE), LEAF		#4	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	
207	2-134-636-51	SCREW (M1.7X2.5)					

CDX-GT10W/GT100/GT150/GT150S

4-6. CD MECHANISM SECTION (4) (MG-611XE-186//C)



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
251	2-186-700-21	GEAR (CHK1)		255	3-899-829-01	WASHER (SLIT)	
252	3-344-223-01	WASHER		256	2-590-545-21	GEAR (LE2-M)	
253	3-259-470-23	GEAR (LE1)		257	A-1088-620-A	CHASSIS (M) BLOCK ASSY	
254	3-253-755-21	LEVER (D)		258	3-262-755-11	WASHER (1.1-2.5)	

CDX-GT10W/GT100/GT150/GT150S

KEY

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
LSW911	1-786-805-11	SWITCH, TACTILE (WITH LED) (BTM) (GT100/GT150/GT150S)		R931	1-216-812-11	METAL CHIP	180 5% 1/10W
LSW911	1-786-806-11	SWITCH, TACTILE (WITH LED) (BTM) (GT10W)		R932	1-216-812-11	METAL CHIP	180 5% 1/10W
LSW912	1-786-805-11	SWITCH, TACTILE (WITH LED) (MODE) (GT100/GT150/GT150S)		R933	1-216-812-11	METAL CHIP	180 5% 1/10W
LSW912	1-786-806-11	SWITCH, TACTILE (WITH LED) (MODE) (GT10W)		R934	1-216-822-11	METAL CHIP	1.2K 5% 1/10W
LSW913	1-786-805-11	SWITCH, TACTILE (WITH LED) (1) (GT100/GT150/GT150S)		R941	1-216-810-11	METAL CHIP	120 5% 1/10W (GT10W)
LSW913	1-786-806-11	SWITCH, TACTILE (WITH LED) (1) (GT10W)		R941	1-216-813-11	METAL CHIP	220 5% 1/10W (GT100/GT150/GT150S)
LSW914	1-786-805-11	SWITCH, TACTILE (WITH LED) (2) (GT100/GT150/GT150S)		R942	1-216-810-11	METAL CHIP	120 5% 1/10W (GT10W)
LSW914	1-786-806-11	SWITCH, TACTILE (WITH LED) (2) (GT10W)		R942	1-216-813-11	METAL CHIP	220 5% 1/10W (GT100/GT150/GT150S)
LSW915	1-786-805-11	SWITCH, TACTILE (WITH LED) (3/REP) (GT100/GT150/GT150S)		R943	1-216-810-11	METAL CHIP	120 5% 1/10W (GT10W)
LSW915	1-786-806-11	SWITCH, TACTILE (WITH LED) (3/REP) (GT10W)		R943	1-216-811-11	METAL CHIP	150 5% 1/10W (GT100/GT150/GT150S)
LSW916	1-786-805-11	SWITCH, TACTILE (WITH LED) (4/SHUF) (GT100/GT150/GT150S)		R944	1-216-811-11	METAL CHIP	150 5% 1/10W
LSW916	1-786-806-11	SWITCH, TACTILE (WITH LED) (4/SHUF) (GT10W)		R945	1-216-810-11	METAL CHIP	120 5% 1/10W (GT10W)
LSW917	1-786-805-11	SWITCH, TACTILE (WITH LED) (5) (GT100/GT150/GT150S)		R945	1-216-811-11	METAL CHIP	150 5% 1/10W (GT100/GT150/GT150S)
LSW917	1-786-806-11	SWITCH, TACTILE (WITH LED) (5) (GT10W)		R946	1-216-807-11	METAL CHIP	68 5% 1/10W (GT10W)
LSW918	1-786-805-11	SWITCH, TACTILE (WITH LED) (6) (GT100/GT150/GT150S)		R946	1-216-809-11	METAL CHIP	100 5% 1/10W (GT100/GT150/GT150S)
LSW918	1-786-806-11	SWITCH, TACTILE (WITH LED) (6) (GT10W)		R947	1-216-807-11	METAL CHIP	68 5% 1/10W (GT10W)
LSW919	1-786-805-11	SWITCH, TACTILE (WITH LED) (SENS) (GT100/GT150/GT150S)		R947	1-216-809-11	METAL CHIP	100 5% 1/10W (GT100/GT150/GT150S)
LSW919	1-786-806-11	SWITCH, TACTILE (WITH LED) (SENS) (GT10W)		R948	1-216-811-11	METAL CHIP	150 5% 1/10W
LSW920	1-786-805-11	SWITCH, TACTILE (WITH LED) (DSPL/DIM) (GT100/GT150/GT150S)		R949	1-216-810-11	METAL CHIP	120 5% 1/10W (GT10W)
LSW920	1-786-806-11	SWITCH, TACTILE (WITH LED) (DSPL/DIM) (GT10W)		R949	1-216-812-11	METAL CHIP	180 5% 1/10W (GT100/GT150/GT150S)
< TRANSISTOR >				R950	1-216-807-11	METAL CHIP	68 5% 1/10W (GT10W)
Q931	8-729-027-44	TRANSISTOR DTC114TKA-T146		R950	1-216-809-11	METAL CHIP	100 5% 1/10W (GT100/GT150/GT150S)
Q932	8-729-027-58	TRANSISTOR DTC143ZKA-T146		R951	1-216-807-11	METAL CHIP	68 5% 1/10W (GT10W)
< RESISTOR >				R951	1-216-809-11	METAL CHIP	100 5% 1/10W (GT100/GT150/GT150S)
R901	1-216-819-11	METAL CHIP	680 5% 1/10W	R952	1-216-810-11	METAL CHIP	120 5% 1/10W (GT10W)
R902	1-216-819-11	METAL CHIP	680 5% 1/10W	R952	1-216-811-11	METAL CHIP	150 5% 1/10W (GT100/GT150/GT150S)
R903	1-216-819-11	METAL CHIP	680 5% 1/10W	R953	1-216-811-11	METAL CHIP	150 5% 1/10W
R904	1-216-821-11	METAL CHIP	1K 5% 1/10W	R954	1-216-810-11	METAL CHIP	120 5% 1/10W (GT10W)
R905	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	R954	1-216-811-11	METAL CHIP	150 5% 1/10W (GT100/GT150/GT150S)
R906	1-216-819-11	METAL CHIP	680 5% 1/10W	R955	1-216-811-11	METAL CHIP	150 5% 1/10W
R907	1-216-819-11	METAL CHIP	680 5% 1/10W	R956	1-216-810-11	METAL CHIP	120 5% 1/10W (GT10W)
R908	1-216-819-11	METAL CHIP	680 5% 1/10W	R956	1-216-812-11	METAL CHIP	180 5% 1/10W (GT100/GT150/GT150S)
R909	1-216-821-11	METAL CHIP	1K 5% 1/10W	R957	1-216-811-11	METAL CHIP	150 5% 1/10W
R910	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	R958	1-216-810-11	METAL CHIP	120 5% 1/10W (GT10W)
R911	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	R958	1-216-812-11	METAL CHIP	180 5% 1/10W (GT100/GT150/GT150S)
R912	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R961	1-216-811-11	METAL CHIP	150 5% 1/10W
R913	1-216-827-11	METAL CHIP	3.3K 5% 1/10W				
R914	1-216-829-11	METAL CHIP	4.7K 5% 1/10W				
R915	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W				
R916	1-216-833-11	METAL CHIP	10K 5% 1/10W				
R917	1-216-835-11	METAL CHIP	15K 5% 1/10W				
R918	1-216-837-11	METAL CHIP	22K 5% 1/10W				
R921	1-216-025-11	RES-CHIP	100 5% 1/10W				
R922	1-216-025-11	RES-CHIP	100 5% 1/10W				

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R962	1-216-810-11	METAL CHIP	120	5%	1/10W (GT10W)	C431	1-126-964-11	ELECT	10uF	20%	50V
R962	1-216-812-11	METAL CHIP	180	5%	1/10W (GT100/GT150/GT150S)	C432	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
R963	1-216-811-11	METAL CHIP	150	5%	1/10W	C435	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
R964	1-216-810-11	METAL CHIP	120	5%	1/10W (GT10W)	C441	1-126-964-11	ELECT	10uF	20%	50V
R964	1-216-812-11	METAL CHIP	180	5%	1/10W (GT100/GT150/GT150S)	C442	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
R974	1-216-864-11	SHORT CHIP	0			C445	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
R976	1-216-864-11	SHORT CHIP	0			C451	1-126-964-11	ELECT	10uF	20%	50V
R977	1-216-809-11	METAL CHIP	100	5%	1/10W	C452	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
R978	1-216-809-11	METAL CHIP	100	5%	1/10W	C455	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
R979	1-216-809-11	METAL CHIP	100	5%	1/10W	C461	1-126-964-11	ELECT	10uF	20%	50V
R981	1-216-811-11	METAL CHIP	150	5%	1/10W	C462	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
R982	1-216-811-11	METAL CHIP	150	5%	1/10W	C465	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
R984	1-216-821-11	METAL CHIP	1K	5%	1/10W	C471	1-126-964-11	ELECT	10uF	20%	50V
R985	1-216-821-11	METAL CHIP	1K	5%	1/10W	C474	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
R986	1-216-821-11	METAL CHIP	1K	5%	1/10W	C479	1-126-947-11	ELECT	47uF	20%	35V
R987	1-216-857-11	METAL CHIP	1M	5%	1/10W	C481	1-126-964-11	ELECT	10uF	20%	50V
R991	1-216-864-11	SHORT CHIP	0			C484	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
< ROTARY ENCODER >						C501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
RE901	1-478-474-12	ENCODER, ROTARY (PUSH SELECT/VOLUME)				C502	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
*****						C503	1-104-665-11	ELECT	100uF	20%	25V
A-1134-204-A	MAIN BOARD, COMPLETE (GT10W/GT100)					C504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
A-1134-470-A	MAIN BOARD, COMPLETE (GT150)					C507	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
A-1147-203-A	MAIN BOARD, COMPLETE (GT150S)					C508	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
*****						C509	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
7-621-284-40	SCREW +P 2.6X10					C510	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT					C511	1-104-665-11	ELECT	100uF	20%	25V
7-685-793-09	SCREW +PTT 2.6X8 (S)					C512	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
7-685-795-09	SCREW +PTT 2.6X12 (S)					C513	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
< CAPACITOR >						C514	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C4	1-126-947-11	ELECT	47uF	20%	35V	C516	1-216-864-11	SHORT CHIP	0		
C5	1-126-947-11	ELECT	47uF	20%	35V	C519	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C6	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C601	1-131-868-81	ELECT	3300uF	20%	16V
C7	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C602	1-165-319-11	CERAMIC CHIP	0.1uF	10%	50V
C12	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C617	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C13	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C618	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C301	1-128-551-11	ELECT	22uF	20%	63V	C622	1-126-916-11	ELECT	1000uF	20%	6.3V
C302	1-104-665-11	ELECT	100uF	20%	25V	C623	1-126-916-11	ELECT	1000uF	20%	6.3V
C303	1-128-551-11	ELECT	22uF	20%	63V	C631	1-126-960-11	ELECT	1uF	20%	50V
C305	1-104-665-11	ELECT	100uF	20%	25V	C750	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C751	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C307	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C753	1-128-551-11	ELECT	22uF	20%	63V
C308	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C754	1-126-961-11	ELECT	2.2uF	20%	50V
C343	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C755	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C401	1-126-964-11	ELECT	10uF	20%	50V	C756	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C404	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	C758	1-126-964-11	ELECT	10uF	20%	50V
C405	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	C763	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C406	1-126-960-11	ELECT	1uF	20%	50V	C764	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C407	1-126-960-11	ELECT	1uF	20%	50V	C765	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C410	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C769	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C411	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C770	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C412	1-126-934-11	ELECT	220uF	20%	16V	C771	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C413	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C774	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
						C775	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
						C776	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
						C901	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
						C902	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
						C903	1-126-961-11	ELECT	2.2uF	20%	50V
						C905	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

CDX-GT10W/GT100/GT150/GT150S

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C917	1-163-017-00	CERAMIC CHIP 0.0047uF 10%	50V	IC501	6-806-030-01	IC MB90488BPF-G-154E1	
C918	1-163-017-00	CERAMIC CHIP 0.0047uF 10%	50V	IC602	8-759-659-13	IC PST3428UL	
		< CONNECTOR >		IC750	6-705-360-02	IC TDA8588BJ/N2/R1 (GT10W/GT100/GT150)	
CN601	1-774-701-21	PIN, CONNECTOR 16P		IC750	6-705-363-02	IC TDA8589BJ/N2/R1 (GT150S)	
CN701	1-819-773-11	SOCKET, CONNECTOR 15P		IC901	8-759-681-42	IC NJM12902V(TE2)	
CNP301	1-817-536-11	CONNECTOR, BOARD TO BOARD 28P				< JACK >	
		< DIODE >		J1	1-815-185-13	JACK (ANTENNA)	
D1	6-501-168-01	DIODE UDZW-TE17-5.6B		J330	1-774-698-11	JACK, PIN 2P (AUDIO OUT REAR)	
D479	6-501-193-01	DIODE 1SS355WTE-17				< JUMPER RESISTOR >	
D503	6-501-193-01	DIODE 1SS355WTE-17		JC1	1-216-864-11	SHORT CHIP	0
D580	6-501-171-01	DIODE UDZW-TE17-7.5B		JC501	1-216-864-11	SHORT CHIP	0
D581	6-501-180-01	DIODE UDZW-TE17-18B		JC504	1-216-864-11	SHORT CHIP	0
D601	8-719-049-38	DIODE 1N5404TU		JC534	1-216-864-11	SHORT CHIP	0
D609	6-501-170-01	DIODE UDZW-TE17-6.8B		JC536	1-216-864-11	SHORT CHIP	0
D617	6-501-180-01	DIODE UDZW-TE17-18B		JC681	1-216-864-11	SHORT CHIP	0
D719	6-501-180-01	DIODE UDZW-TE17-18B		JC753	1-216-296-11	SHORT CHIP	0
D751	6-500-522-01	DIODE 10EDB40-TA1B2		JC754	1-216-296-11	SHORT CHIP	0
D752	6-500-522-01	DIODE 10EDB40-TA1B2		JC755	1-216-296-11	SHORT CHIP	0
D753	6-500-522-01	DIODE 10EDB40-TA1B2		JC756	1-216-864-11	SHORT CHIP	0
D754	6-500-522-01	DIODE 10EDB40-TA1B2		JC795	1-216-864-11	SHORT CHIP	0
D755	6-500-522-01	DIODE 10EDB40-TA1B2				< COIL >	
D756	6-500-522-01	DIODE 10EDB40-TA1B2		L1	1-469-844-11	INDUCTOR	2.2uH
D757	6-500-522-01	DIODE 10EDB40-TA1B2		L301	1-216-295-11	SHORT CHIP	0
D758	6-500-522-01	DIODE 10EDB40-TA1B2		L501	1-216-295-11	SHORT CHIP	0
D759	6-500-522-01	DIODE 10EDB40-TA1B2		L601	1-456-617-11	COIL, CHOKE	
D760	6-500-522-01	DIODE 10EDB40-TA1B2				< TRANSISTOR >	
D761	6-500-522-01	DIODE 10EDB40-TA1B2		Q1	6-551-431-01	TRANSISTOR 2SC6027T100	
D762	6-500-522-01	DIODE 10EDB40-TA1B2		Q431	8-729-027-44	TRANSISTOR DTC114TKA-T146	
D903	6-501-170-01	DIODE UDZW-TE17-6.8B		Q441	8-729-027-44	TRANSISTOR DTC114TKA-T146	
		< FERRITE BEAD >		Q451	8-729-027-44	TRANSISTOR DTC114TKA-T146	
FB1	1-500-245-11	INDUCTOR, FERRITE BEAD		Q461	8-729-027-44	TRANSISTOR DTC114TKA-T146	
FB301	1-216-864-11	SHORT CHIP	0	Q471	6-551-392-01	TRANSISTOR RT6N140C-TP-1	
FB302	1-216-864-11	SHORT CHIP	0	Q478	1-801-806-11	TRANSISTOR DTC144EKA	
FB303	1-469-876-11	INDUCTOR, FERRITE BEAD		Q479	8-729-027-23	TRANSISTOR DTA114EKA-T146	
FB304	1-216-295-11	SHORT CHIP	0	Q481	6-551-392-01	TRANSISTOR RT6N140C-TP-1	
FB305	1-500-245-11	INDUCTOR, FERRITE BEAD		Q580	8-729-027-43	TRANSISTOR DTC114EKA-T146	
FB306	1-500-245-11	INDUCTOR, FERRITE BEAD		Q581	1-801-806-11	TRANSISTOR DTC144EKA	
FB307	1-216-864-11	SHORT CHIP	0	Q582	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FB310	1-216-864-11	SHORT CHIP	0	Q631	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FB311	1-216-864-11	SHORT CHIP	0	Q664	8-729-027-23	TRANSISTOR DTA114EKA-T146	
FB410	1-216-864-11	SHORT CHIP	0			< RESISTOR >	
FB411	1-216-864-11	SHORT CHIP	0	R1	1-216-821-11	METAL CHIP	1K 5% 1/10W
FB501	1-216-295-11	SHORT CHIP	0	R2	1-414-595-11	INDUCTOR, FERRITE BEAD	
FB603	1-216-295-11	SHORT CHIP	0	R3	1-414-595-11	INDUCTOR, FERRITE BEAD	
FB604	1-500-245-11	INDUCTOR, FERRITE BEAD		R4	1-216-839-11	METAL CHIP	33K 5% 1/10W
FB605	1-216-864-11	SHORT CHIP	0	R5	1-216-843-11	METAL CHIP	68K 5% 1/10W
FB606	1-216-864-11	SHORT CHIP	0	R12	1-414-595-11	INDUCTOR, FERRITE BEAD	
		< FUSE >		R13	1-414-595-11	INDUCTOR, FERRITE BEAD	
FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A		R301	1-216-821-11	METAL CHIP	1K 5% 1/10W
		< IC >		R302	1-216-821-11	METAL CHIP	1K 5% 1/10W
IC401	6-708-880-01	IC BD3806AFS-E2		R401	1-216-797-11	METAL CHIP	10 5% 1/10W
				R405	1-218-881-11	METAL CHIP	27K 0.5% 1/10W

Ref. No.	Part No.	Description	Quantity	Percentage	Remark	Ref. No.	Part No.	Description	Quantity	Percentage	Remark
R406	1-216-809-11	METAL CHIP	100	5%	1/10W	R541	1-216-845-11	METAL CHIP	100K	5%	1/10W
R407	1-216-809-11	METAL CHIP	100	5%	1/10W	R543	1-216-821-11	METAL CHIP	1K	5%	1/10W
R408	1-216-809-11	METAL CHIP	100	5%	1/10W	R544	1-216-821-11	METAL CHIP	1K	5%	1/10W
R409	1-216-809-11	METAL CHIP	100	5%	1/10W	R545	1-216-845-11	METAL CHIP	100K	5%	1/10W
R410	1-216-809-11	METAL CHIP	100	5%	1/10W						(GT150/GT150S)
R411	1-216-809-11	METAL CHIP	100	5%	1/10W	R546	1-216-845-11	METAL CHIP	100K	5%	1/10W
R431	1-216-821-11	METAL CHIP	1K	5%	1/10W						(GT150/GT150S)
R432	1-216-841-11	METAL CHIP	47K	5%	1/10W	R550	1-216-845-11	METAL CHIP	100K	5%	1/10W
R441	1-216-821-11	METAL CHIP	1K	5%	1/10W	R551	1-216-845-11	METAL CHIP	100K	5%	1/10W
R442	1-216-841-11	METAL CHIP	47K	5%	1/10W						(GT10W/GT100)
R451	1-216-821-11	METAL CHIP	1K	5%	1/10W	R556	1-216-833-11	METAL CHIP	10K	5%	1/10W
R452	1-216-841-11	METAL CHIP	47K	5%	1/10W	R557	1-216-809-11	METAL CHIP	100	5%	1/10W
R461	1-216-821-11	METAL CHIP	1K	5%	1/10W	R558	1-216-821-11	METAL CHIP	1K	5%	1/10W
R462	1-216-841-11	METAL CHIP	47K	5%	1/10W	R559	1-216-845-11	METAL CHIP	100K	5%	1/10W
R471	1-216-809-11	METAL CHIP	100	5%	1/10W	R560	1-216-845-11	METAL CHIP	100K	5%	1/10W
R472	1-216-841-11	METAL CHIP	47K	5%	1/10W	R561	1-216-845-11	METAL CHIP	100K	5%	1/10W
R479	1-216-805-11	METAL CHIP	47	5%	1/10W	R563	1-216-845-11	METAL CHIP	100K	5%	1/10W
R481	1-216-809-11	METAL CHIP	100	5%	1/10W	R565	1-216-845-11	METAL CHIP	100K	5%	1/10W
R482	1-216-841-11	METAL CHIP	47K	5%	1/10W	R566	1-216-845-11	METAL CHIP	100K	5%	1/10W
R502	1-216-821-11	METAL CHIP	1K	5%	1/10W	R567	1-216-845-11	METAL CHIP	100K	5%	1/10W
R503	1-216-821-11	METAL CHIP	1K	5%	1/10W	R568	1-216-821-11	METAL CHIP	1K	5%	1/10W
R504	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R570	1-216-817-11	METAL CHIP	470	5%	1/10W
R505	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R571	1-216-845-11	METAL CHIP	100K	5%	1/10W
R507	1-216-845-11	METAL CHIP	100K	5%	1/10W	R572	1-216-809-11	METAL CHIP	100	5%	1/10W
R508	1-216-864-11	SHORT CHIP	0			R575	1-216-845-11	METAL CHIP	100K	5%	1/10W
R509	1-216-812-11	METAL CHIP	180	5%	1/10W	R577	1-216-845-11	METAL CHIP	100K	5%	1/10W
R510	1-216-821-11	METAL CHIP	1K	5%	1/10W	R582	1-216-821-11	METAL CHIP	1K	5%	1/10W
R511	1-216-821-11	METAL CHIP	1K	5%	1/10W	R583	1-216-821-11	METAL CHIP	1K	5%	1/10W
R512	1-216-821-11	METAL CHIP	1K	5%	1/10W	R584	1-216-841-11	METAL CHIP	47K	5%	1/10W
R513	1-216-845-11	METAL CHIP	100K	5%	1/10W	R585	1-216-849-11	METAL CHIP	220K	5%	1/10W
R514	1-216-845-11	METAL CHIP	100K	5%	1/10W	R601	1-216-845-11	METAL CHIP	100K	5%	1/10W
R515	1-247-807-31	CARBON	100	5%	1/4W	R609	1-216-821-11	METAL CHIP	1K	5%	1/10W
R516	1-247-807-31	CARBON	100	5%	1/4W	R631	1-249-425-11	CARBON	4.7K	5%	1/4W
R517	1-216-841-11	METAL CHIP	47K	5%	1/10W	R632	1-216-841-11	METAL CHIP	47K	5%	1/10W
R518	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R633	1-216-841-11	METAL CHIP	47K	5%	1/10W
R519	1-216-845-11	METAL CHIP	100K	5%	1/10W	R634	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R521	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R636	1-216-845-11	METAL CHIP	100K	5%	1/10W
R522	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R661	1-216-821-11	METAL CHIP	1K	5%	1/10W
R523	1-216-821-11	METAL CHIP	1K	5%	1/10W	R662	1-216-845-11	METAL CHIP	100K	5%	1/10W
R524	1-216-821-11	METAL CHIP	1K	5%	1/10W	R663	1-216-821-11	METAL CHIP	1K	5%	1/10W
R525	1-216-821-11	METAL CHIP	1K	5%	1/10W	R664	1-216-845-11	METAL CHIP	100K	5%	1/10W
R526	1-216-809-11	METAL CHIP	100	5%	1/10W	R671	1-216-809-11	METAL CHIP	100	5%	1/10W
R527	1-216-821-11	METAL CHIP	1K	5%	1/10W	R672	1-216-809-11	METAL CHIP	100	5%	1/10W
R528	1-216-845-11	METAL CHIP	100K	5%	1/10W	R673	1-216-833-11	METAL CHIP	10K	5%	1/10W
R529	1-216-821-11	METAL CHIP	1K	5%	1/10W	R674	1-216-845-11	METAL CHIP	100K	5%	1/10W
R530	1-216-845-11	METAL CHIP	100K	5%	1/10W	R675	1-216-821-11	METAL CHIP	1K	5%	1/10W
R531	1-216-845-11	METAL CHIP	100K	5%	1/10W	R676	1-216-821-11	METAL CHIP	1K	5%	1/10W
R532	1-216-845-11	METAL CHIP	100K	5%	1/10W	R677	1-216-864-11	SHORT CHIP	0		
R533	1-216-845-11	METAL CHIP	100K	5%	1/10W	R680	1-216-821-11	METAL CHIP	1K	5%	1/10W
R534	1-216-833-11	METAL CHIP	10K	5%	1/10W	R681	1-216-821-11	METAL CHIP	1K	5%	1/10W
R535	1-216-845-11	METAL CHIP	100K	5%	1/10W	R752	1-216-811-11	METAL CHIP	150	5%	1/10W
R536	1-216-845-11	METAL CHIP	100K	5%	1/10W	R756	1-216-841-11	METAL CHIP	47K	5%	1/10W
R537	1-216-845-11	METAL CHIP	100K	5%	1/10W	R757	1-216-864-11	SHORT CHIP	0		
R538	1-216-845-11	METAL CHIP	100K	5%	1/10W	R901	1-216-817-11	METAL CHIP	470	5%	1/10W
					(GT150/GT150S)	R902	1-216-817-11	METAL CHIP	470	5%	1/10W
R539	1-216-864-11	SHORT CHIP	0		(GT10W/GT100)	R903	1-216-834-11	METAL CHIP	12K	5%	1/10W
R540	1-216-845-11	METAL CHIP	100K	5%	1/10W	R904	1-216-834-11	METAL CHIP	12K	5%	1/10W
						R905	1-216-841-11	METAL CHIP	47K	5%	1/10W

CDX-GT10W/GT100/GT150/GT150S

MAIN **SENSOR** **SERVO**

Ref. No.	Part No.	Description	Remark
R906	1-216-841-11	METAL CHIP 47K 5%	1/10W
R907	1-216-845-11	METAL CHIP 100K 5%	1/10W
R910	1-216-789-11	METAL CHIP 2.2 5%	1/10W
R911	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R912	1-216-864-11	SHORT CHIP 0	
R913	1-216-864-11	SHORT CHIP 0	
R914	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
< SWITCH >			
S502	1-571-478-11	SWITCH, SLIDE (FREQUENCY SELECTOR) (GT150/GT150S)	
S702	1-786-826-11	SWITCH, TACTILE (RESET)	
< TUNER UNIT >			
TU1	A-3220-961-A	TUNER UNIT (TUX-032)	
< VIBRATOR >			
X501	1-813-524-21	VIBRATOR, CERAMIC (18.432MHz)	
X502	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)	

SENSOR BOARD			

< SWITCH >			
SW2	1-529-566-61	SWITCH, PUSH (1 KEY) (SELF)	
SW3	1-529-566-61	SWITCH, PUSH (1 KEY) (DISC IN)	

A-1083-497-A	SERVO BOARD, COMPLETE		

< CAPACITOR >			
C1	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C2	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C5	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C6	1-100-381-11	ELECT CHIP 10uF 20%	16V
C7	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C11	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C13	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C17	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C18	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
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
C23	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C25	1-162-908-11	CERAMIC CHIP 3PF 0.25PF	50V
C26	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C27	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C28	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C29	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C30	1-162-921-11	CERAMIC CHIP 33PF 5%	50V
C31	1-162-925-11	CERAMIC CHIP 68PF 5%	50V
C32	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C34	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C35	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C36	1-162-967-11	CERAMIC CHIP 0.0033uF 10%	50V
C37	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V

Ref. No.	Part No.	Description	Remark
C38	1-104-609-11	ELECT CHIP 100uF 20%	4V
C39	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C70	1-162-965-11	CERAMIC CHIP 0.0015uF 10%	50V
C71	1-162-965-11	CERAMIC CHIP 0.0015uF 10%	50V
C72	1-162-962-11	CERAMIC CHIP 470PF 10%	50V
C73	1-162-962-11	CERAMIC CHIP 470PF 10%	50V
C74	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C75	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C76	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C77	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C78	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V
C79	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V
< CONNECTOR >			
CN1	1-817-275-21	CONNECTOR, BOARD TO BOARD 28P	
CN2	1-815-016-61	CONNECTOR, FFC/FPC (ZIF) 16P	
< FERRITE BEAD >			
FB1	1-216-864-11	SHORT CHIP 0	
FB2	1-414-760-21	FERRITE, EMI (SMD) (1608)	
FB3	1-414-760-21	FERRITE, EMI (SMD) (1608)	
< IC >			
IC1	6-703-699-01	IC uPD63712GC-8EU-A	
IC2	6-705-002-01	IC BA5966FP-FE2	
< FERRITE BEAD >			
JR40	1-414-760-21	FERRITE, EMI (SMD) (1608)	
JR41	1-414-760-21	FERRITE, EMI (SMD) (1608)	
JR90	1-414-760-21	FERRITE, EMI (SMD) (1608)	
JR91	1-414-760-21	FERRITE, EMI (SMD) (1608)	
< TRANSISTOR >			
Q1	8-729-904-87	TRANSISTOR 2SB1197K-R	
< RESISTOR >			
R1	1-216-841-11	METAL CHIP 47K 5%	1/10W
R2	1-216-809-11	METAL CHIP 100 5%	1/10W
R3	1-216-809-11	METAL CHIP 100 5%	1/10W
R4	1-216-809-11	METAL CHIP 100 5%	1/10W
R5	1-216-809-11	METAL CHIP 100 5%	1/10W
R6	1-216-833-11	METAL CHIP 10K 5%	1/10W
R7	1-216-840-11	METAL CHIP 39K 5%	1/10W
R8	1-414-760-21	FERRITE, EMI (SMD) (1608)	
R9	1-216-822-11	METAL CHIP 1.2K 5%	1/10W
R10	1-414-760-21	FERRITE, EMI (SMD) (1608)	
R11	1-216-833-11	METAL CHIP 10K 5%	1/10W
R12	1-216-809-11	METAL CHIP 100 5%	1/10W
R13	1-216-833-11	METAL CHIP 10K 5%	1/10W
R14	1-216-797-11	METAL CHIP 10 5%	1/10W
R15	1-216-797-11	METAL CHIP 10 5%	1/10W
R41	1-216-821-11	METAL CHIP 1K 5%	1/10W
R42	1-216-821-11	METAL CHIP 1K 5%	1/10W
R44	1-414-760-21	FERRITE, EMI (SMD) (1608)	
R45	1-414-760-21	FERRITE, EMI (SMD) (1608)	
R70	1-216-842-11	METAL CHIP 56K 5%	1/10W
R71	1-216-833-11	METAL CHIP 10K 5%	1/10W

Ref. No.	Part No.	Description	Remark
R72	1-216-842-11	METAL CHIP 56K	5% 1/10W
R73	1-216-833-11	METAL CHIP 10K	5% 1/10W
R74	1-216-837-11	METAL CHIP 22K	5% 1/10W
R75	1-216-833-11	METAL CHIP 10K	5% 1/10W
R76	1-216-837-11	METAL CHIP 22K	5% 1/10W
R77	1-216-833-11	METAL CHIP 10K	5% 1/10W
R78	1-216-833-11	METAL CHIP 10K	5% 1/10W
R79	1-216-833-11	METAL CHIP 10K	5% 1/10W
R80	1-216-833-11	METAL CHIP 10K	5% 1/10W
R81	1-216-833-11	METAL CHIP 10K	5% 1/10W
R82	1-216-837-11	METAL CHIP 22K	5% 1/10W
R83	1-216-833-11	METAL CHIP 10K	5% 1/10W
R84	1-216-837-11	METAL CHIP 22K	5% 1/10W
R85	1-216-833-11	METAL CHIP 10K	5% 1/10W

< SWITCH >

SW1 1-529-565-61 SWITCH, PUSH (1 KEY) (DOWN)

< VIBRATOR >

X1 1-795-562-21 VIBRATOR, CERAMIC (16.9344MHz)

MISCELLANEOUS

8 1-776-206-21 CORD (WITH CONNECTOR) (POWER)
 57 1-780-199-11 CONDUCTIVE BOARD, CONNECTION
 △ 153 8-820-207-12 OPTICAL PICK-UP (KSS1000E/K1RP)
 154 A-1088-615-A CHASSIS (OP) SUB ASSY (including M901)
 LCD901 1-805-919-11 DISPLAY PANEL, LIQUID CRYSTAL
 (GT150/GT150S)

LCD901 1-805-920-11 DISPLAY PANEL, LIQUID CRYSTAL
 (GT10W/GT100)

M902 A-1088-614-A MOTOR ASSY, SL (SLED)
 M903 A-1088-622-A MOTOR ASSY, LE (LOADING)
 RE901 1-478-474-12 ENCODER, ROTARY (PUSH SELECT/VOLUME)
 SW4 1-786-339-11 SWITCH (M) (LIMIT)

ACCESSORIES

2-651-184-12 MANUAL, INSTRUCTION (ENGLISH,FRENCH)
 (GT10W:CND/GT100)
 2-651-184-21 MANUAL, INSTRUCTION (ENGLISH,SPANISH,
 SIMPLIFIED CHINESE)
 (GT150/GT150S)
 2-651-184-32 MANUAL, INSTRUCTION (ENGLISH,SPANISH)
 (GT10W:US)
 2-651-186-11 MANUAL, INSTRUCTION, INSTALL (ENGLISH,
 FRENCH)
 (GT10W:CND/GT100)
 2-651-186-41 MANUAL, INSTRUCTION, INSTALL (ENGLISH,
 SPANISH,SIMPLIFIED CHINESE)
 (GT150/GT150S)
 2-651-186-51 MANUAL, INSTRUCTION, INSTALL (ENGLISH,
 SPANISH)
 (GT10W:US)
 X-2024-133-3 CASE ASSY (for FRONT PANEL) (EXCEPT US)

Ref. No.	Part No.	Description	Remark
PARTS FOR INSTALLATION AND CONNECTIONS			

301	X-3382-647-1	FRAME ASSY, FITTING	
302	2-187-743-02	COLLAR	
303	3-246-011-01	KEY (FRAME)	
304	A-1082-993-A	SCREW ASSY (BS4), FITTING (GT150/GT150S)	
305	3-259-776-01	SCREW (+K 5X8 TP)	
306	1-776-206-21	CORD (WITH CONNECTOR) (POWER)	

