

CDX-R3300EE

SERVICE MANUAL

East European Model

Ver 1.0 2004. 02



- The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-611MA-186//Q
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 FM1/FM2:
87.5 – 108 MHz
(at 50 kHz step)
FM3:
65 – 74 MHz
(at 30 kHz step)
Aerial terminal External aerial 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 531 – 1,602 kHz
Aerial terminal External aerial connector
Intermediate frequency 10.7 MHz/450 kHz
Sensitivity AM: 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)

General

Outputs Audio outputs terminal
(rear/sub switchable)
Power aerial relay control terminal
Power amplifier control terminal
Inputs Telephone ATT control terminal
Remote controller input terminal
Aerial input terminal
Tone controls Low: ± 10 dB at 60 Hz (XPL0D)
Mid: ± 10 dB at 1 kHz (XPL0D)
High: ± 10 dB at 10 kHz (XPL0D)

– Continued on next page –

FM/AM COMPACT DISC PLAYER

9-877-558-01

2004B04-1

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Sony Corporation

e Vehicle Company

Published by Sony Engineering Corporation

SONY®

CDX-R3300EE

Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 179 mm (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 161 mm (w/h/d)
Mass	Approx. 1.2 kg
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1)

Design and specifications are subject to change without notice.

SERVICE NOTES

**CLASS 1
LASER PRODUCT**

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

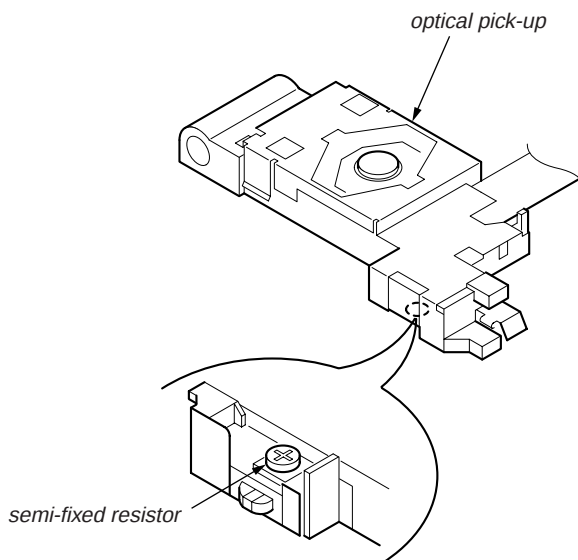
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

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)

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/a 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.

● 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 (CN350) and the SERVO board (CN2) with the extension cable (Part No. J-2502-076-1).

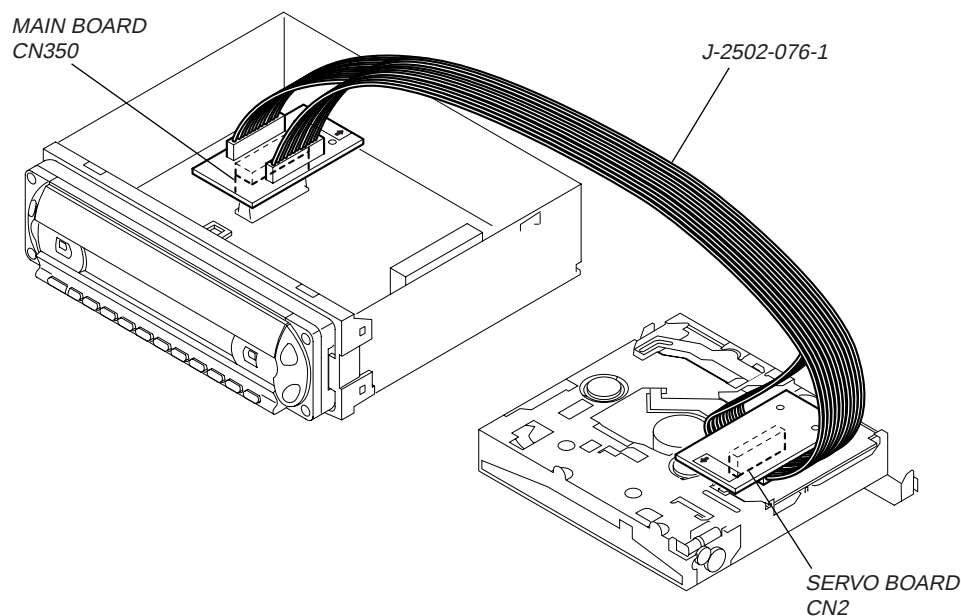


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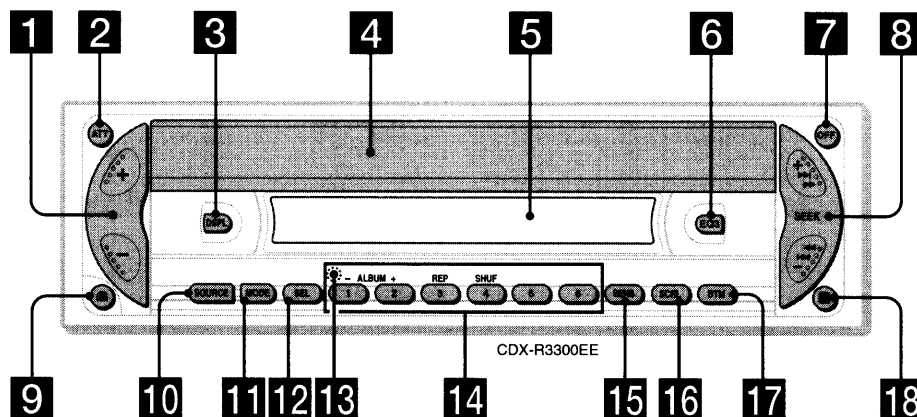
5. ELECTRICAL PARTS LIST 38

SECTION 1 GENERAL

This section is extracted
from instruction manual.

Location of controls

Refer to the pages listed for details.

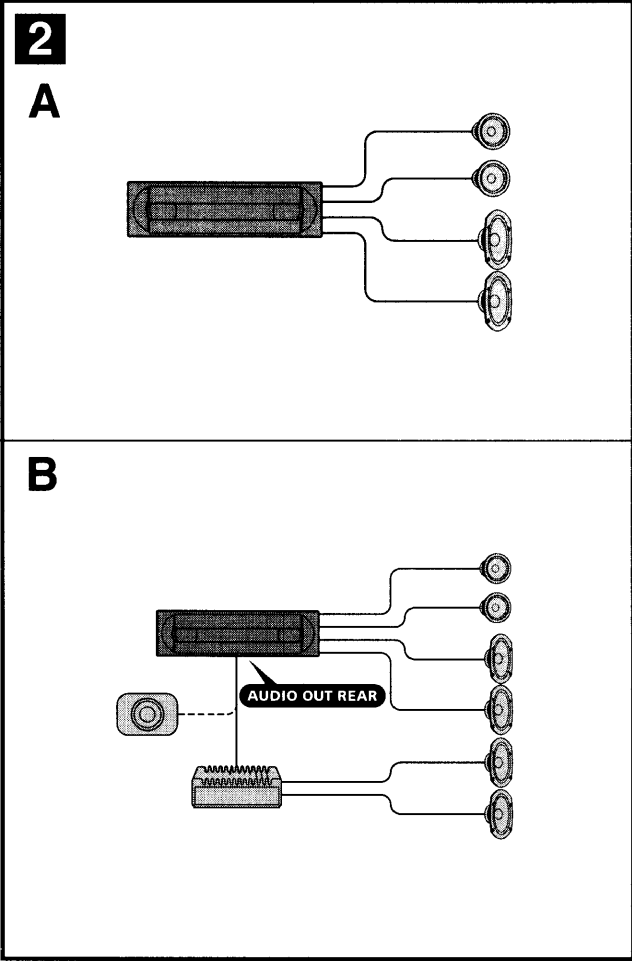


- 1** Volume +/- button
- 2** ATT (attenuate) button 16
- 3** DSPL (display mode change) button 10, 12
- 4** OPEN/EJECT shutter 11
- 5** Display window
- 6** EQ3 button 17, 18
- 7** OFF (Stop/Power off) button* 9, 11
- 8** SEEK +/- button
Radio:
To tune in stations automatically/find a station manually.
CD (MP3 files):
To skip tracks/fast-forward, reverse a track.
- 9** (front panel release) button 9
- 10** SOURCE (Power on/Radio/CD) button
To select the source.
- 11** MODE button
To change the operation.
- 12** SEL (select) button
To select items.
- 13** RESET button (located on the front side of the unit, behind the front panel) 9

- 14** Number buttons 17
Radio:
To store the desired station on each number button.
MP3 files:
①: ALBUM - 11
②: ALBUM + 11
CD:
③: REP 12
④: SHUF 12
- 15** SENS button 13
- 16** SCRL (scroll) button 12
- 17** BTM button 13
- 18** Receptor for the card remote commander

*** Warning when installing in a car without an ACC (accessory) position on the ignition switch**
After turning off the ignition, be sure to press and hold on the unit until the display disappears.
Otherwise, the display does not turn off and this causes battery drain.

Connections



Cautions

- This unit is designed for negative earth 12 V DC operation only.
- Do not get the leads under a screw, or caught in moving parts (e.g. seat railing).
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the power connecting lead ⑦ to the unit and speakers before connecting it to the auxiliary power connector.
- **Run all earth leads to a common earth point.**
- Be sure to insulate any loose unconnected leads with electrical tape for safety.

Notes on the power supply lead (yellow)

- When connecting this unit in combination with other stereo components, the connected car circuit's rating must be higher than the sum of each component's fuse.
- When no car circuits are rated high enough, connect the unit directly to the battery.

Note

Before installing, make sure that the catches on both sides of the bracket ① are bent inwards 2 mm. If the catches are straight or bent outwards, the unit will not be installed securely and may spring out.

Connection example (2)

Notes (12-15)

- Be sure to connect the earth lead before connecting the amplifier.
- If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.

Connection diagram (3)

④ To AMP REMOTE IN of an optional power amplifier

This connection is only for amplifiers. Connecting any other system may damage the unit.

⑤ To the interface cable of a car telephone

Warning

If you have a power aerial without a relay box, connecting this unit with the supplied power connecting lead ⑦ may damage the aerial.

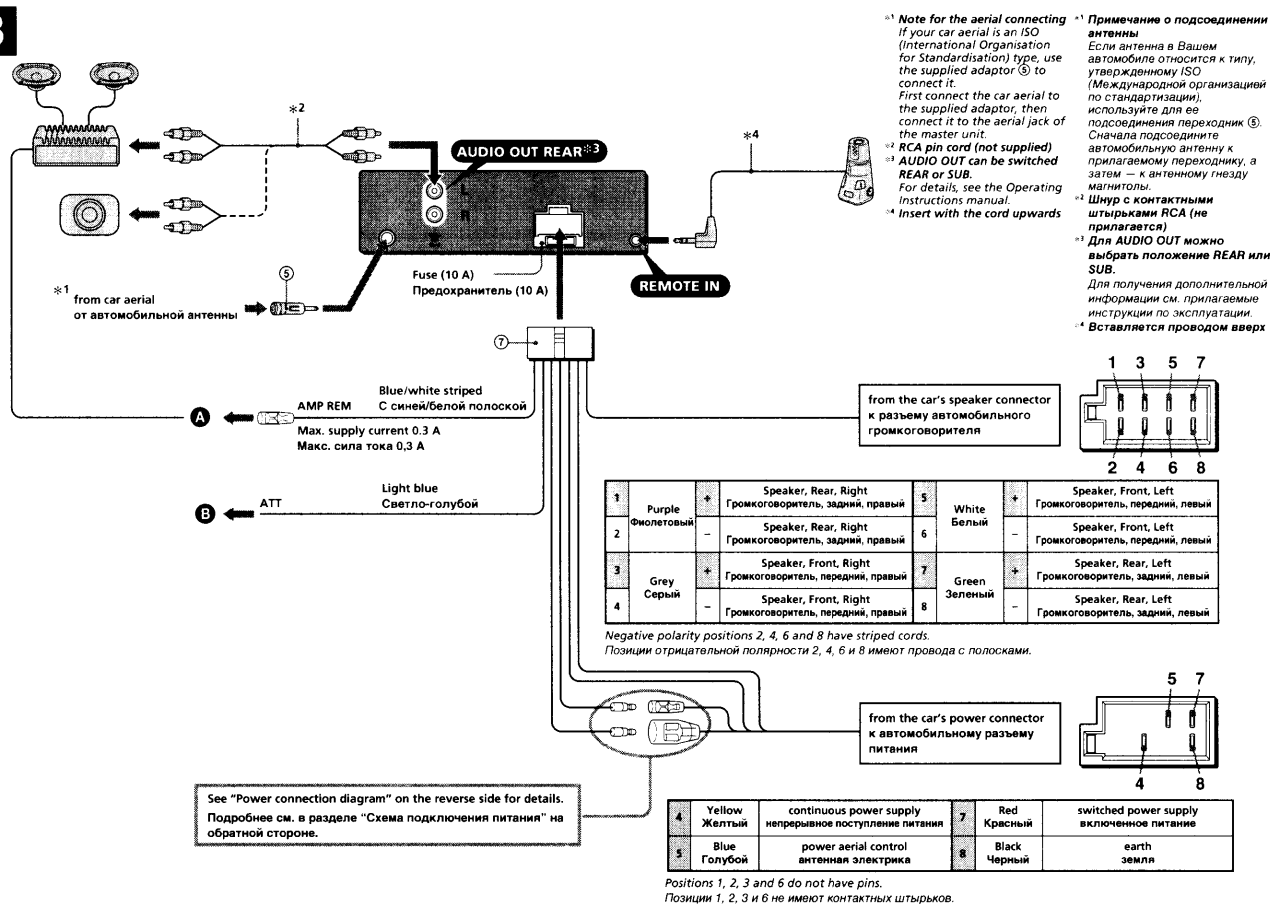
Notes on the control leads

- 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 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.

3



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 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.

Предостережения

- Данная автомагнитола предназначена для подключения только к 12-вольтовому аккумулятору постоянного тока с отрицательным заземлением.
- Не допускайте попадания проводов под винты или между подвижными деталями (например, между направляющими сидений).
- Перед выполнением соединения выключите зажигание автомобиля во избежание короткого замыкания.
- Сначала подсоедините шнур питания (7) к магнитоле и громкоговорителям, а уже потом — к контактам внешнего источника питания.
- Подведите все провода заземления к одной и той же точке заземления.
- В целях безопасности обязательно изолируйте все свободные неподсоединенные провода изоляционной лентой.

Примечания относительно шнура питания (желтого)

- При подключении данного устройства вместе с другими стереокомпонентами номинальное значение силы тока в контуре питания автомобиля должно превышать суммарное значение всех компонентов.
- Если номинальное значение силы тока в контуре питания автомобиля не достаточно высокое, подсоедините устройство напрямую к аккумулятору.

Перечень деталей (1)

- Цифры в списке соответствуют цифрам, упоминаемым далее в данной инструкции.
- При поставке кронштейн (1) и защитная манжета (4) прикрепляются к устройству. Перед монтажом снимите кронштейн (1) и защитную манжету (4) с устройства с помощью ключей для демонтажа (6). Подробную информацию см. в разделе "Снятие защитной манжеты и кронштейна (1)" на обратной стороне листа.
- Сохраните ключи для демонтажа (6) для использования в будущем, так как они также потребуются при демонтаже устройства из машины.

Внимание

Обращайтесь с кронштейном (1) осторожно, чтобы не повредить пальцы.



Примечание

Перед установкой убедитесь, что фиксаторы по обеим сторонам кронштейна (1) загнуты внутрь на 2 мм. Если фиксаторы находятся в прямом положении или загнуты наружу, устройство не будет надежно установлено и может выпасть.

Пример подсоединения (2)

Примечания (2-9)

- Прежде чем подключать магнитолу к усилителю, обязательно подсоедините провод заземления.
- Если подключается дополнительный усилитель мощности, а встроенный усилитель не используется, звуковой сигнал будет отключен.

Схема подсоединения (3)

- A** Подключение к входу AMP REMOTE IN дополнительного усилителя мощности. Этот вариант подключения используется только для усилителей. Подключение любой другой системы может привести к повреждению устройства.
- B** К интерфейному кабелю автомобильного телефона

Предостережение

Если Вы используете антенну с электрическим приводом без рележного блока, подсоединение данной магнитолы посредством прилагаемого шнура питания (7) может привести к повреждению антенны.

О проводах управления

- При включении тюнера по проводу питания приемной антенны (синему) подается напряжение +12 В постоянного тока.
- Если на заднем/боковом стекле автомобиля установлена встроенная антенна диапазона FM/AM, подсоедините провод питания приемной антенны (синий) или провод питания устройства (красный) к клемме питания существующего усилителя антенны. Чтобы получить дополнительные сведения, обратитесь к своему дилеру.
- Антенна с электрическим приводом, не снабженная рележным блоком, с данной магнитолой использоваться не может.

Подсоединение для поддержки памяти

Когда к магнитоле подсоединен желтый электрический провод, блок памяти будет постоянно получать питание, даже при выключенном зажигании.

О подсоединении громкоговорителей

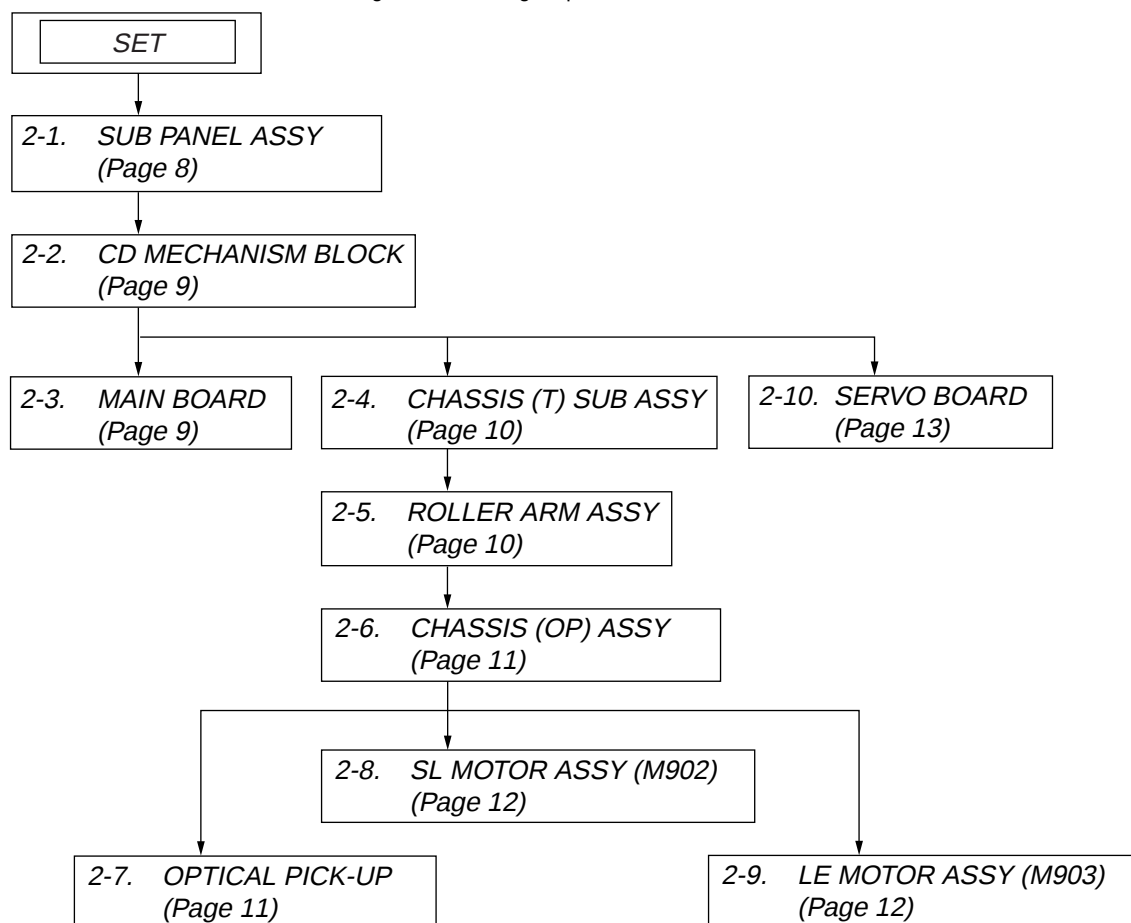
- Прежде чем подсоединять громкоговорители, выключите магнитолу.
- Используйте громкоговорители с полным сопротивлением 4 - 8 Ом, обладающие способностью принимать достаточно мощный сигнал. В противном случае они могут быть повреждены.
- Не подсоединяйте контактные гнезда громкоговорителей к шасси автомобиля и не соединяйте гнезда правого громкоговорителя с гнездами левого.
- Не подключайте провод заземления этого аппарата к отрицательному (-) контакту громкоговорителя.
- Не пытайтесь подсоединить громкоговорители параллельно.
- Не подсоединяйте к гнездам для громкоговорителей на магнитоле какие бы то ни было активные громкоговорители (со встроенными усилителями), поскольку это может привести к повреждению последних. Убедитесь в том, что подсоединяемые громкоговорители относятся к пассивному типу.
- Во избежание неправильной работы устройства не используйте встроенные в автомобиль провода громкоговорителей, если устройство использует общий отрицательный провод (-) для правого и левого громкоговорителей.
- Не замыкайте провода громкоговорителей устройства.

Примечание относительно подсоединения

Если громкоговоритель и усилитель подсоединены неправильно, на дисплее отобразится надпись "FAILURE". В этом случае проверьте правильность подсоединения громкоговорителя и усилителя.

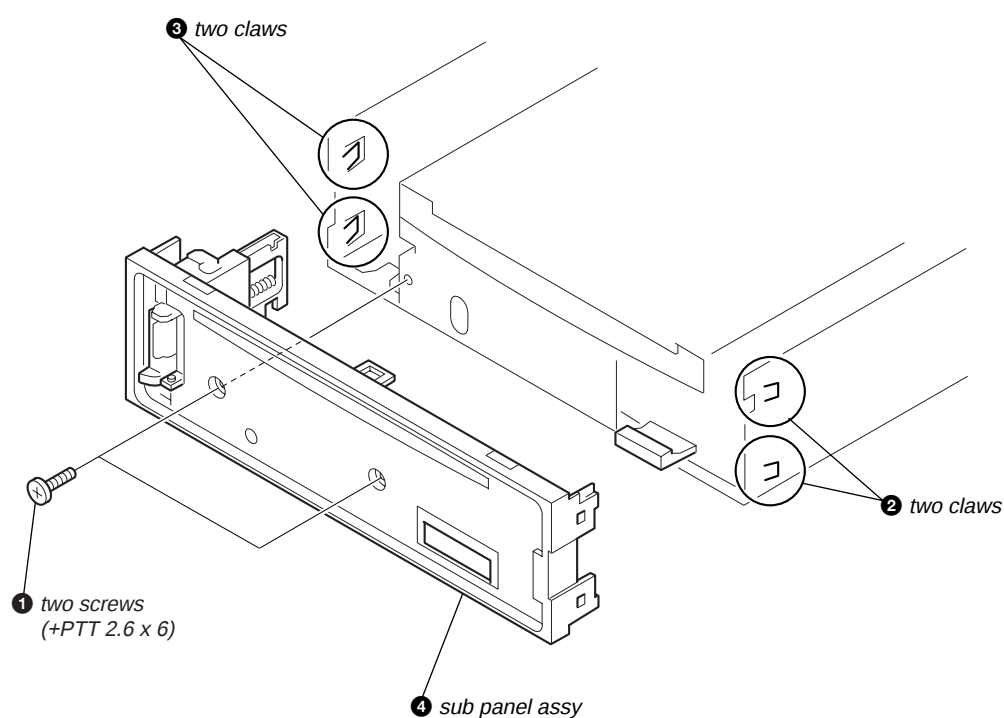
SECTION 2 DISASSEMBLY

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

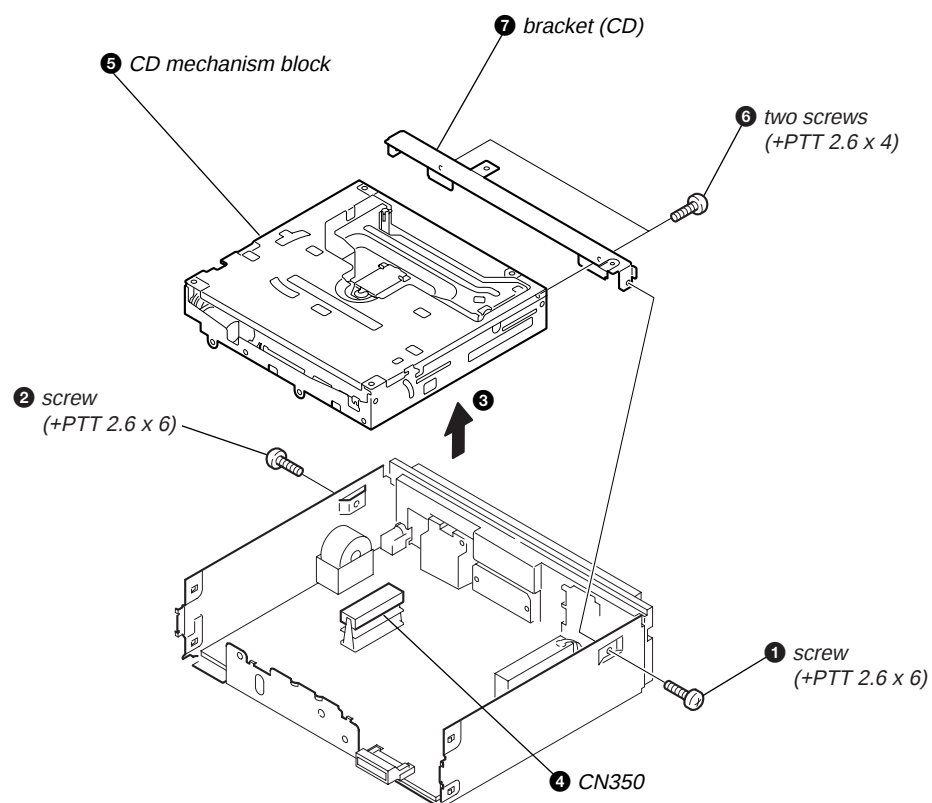


Note : Follow the disassembly procedure in the numerical order given.

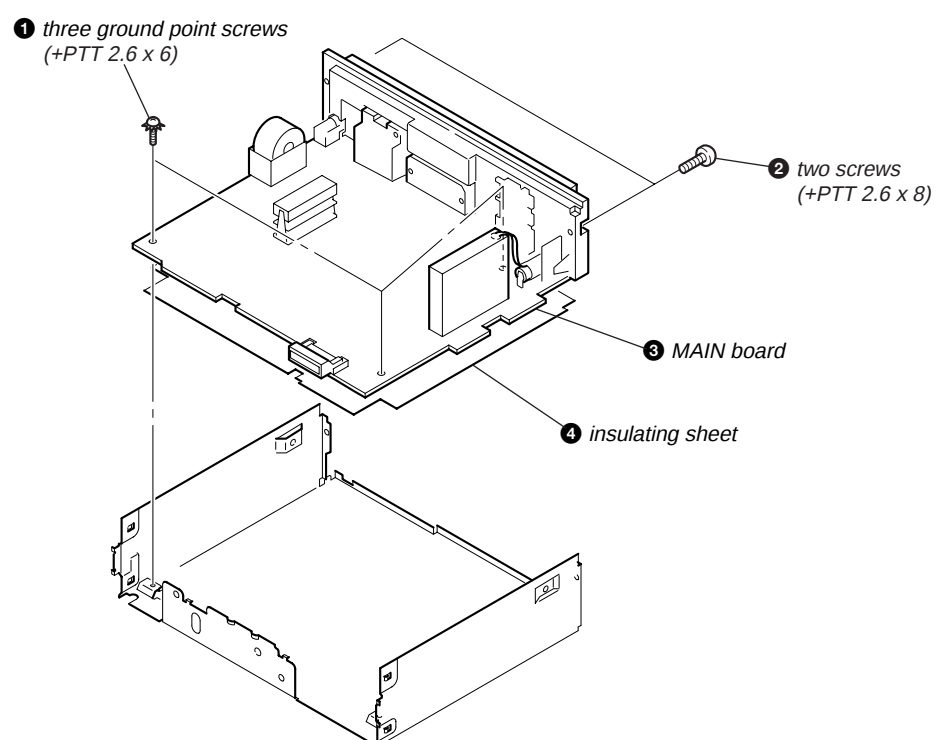
2-1. SUB PANEL ASSY



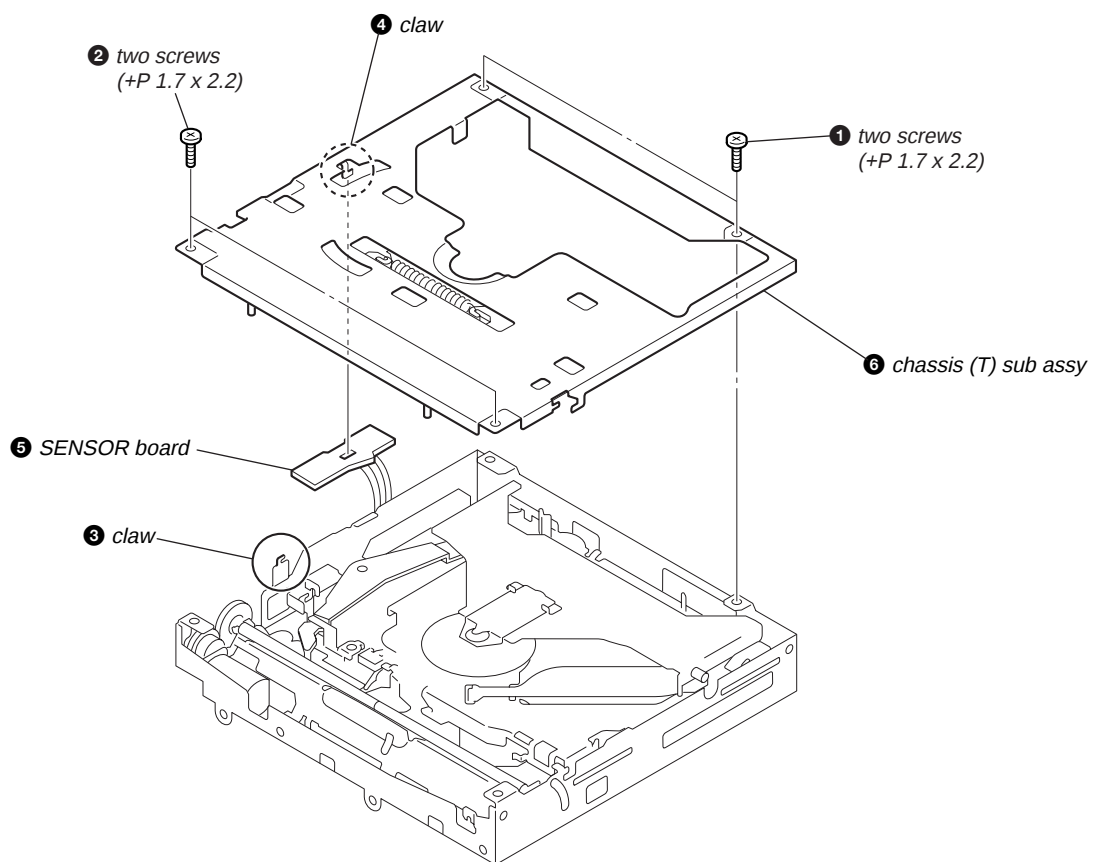
2-2. CD MECHANISM BLOCK



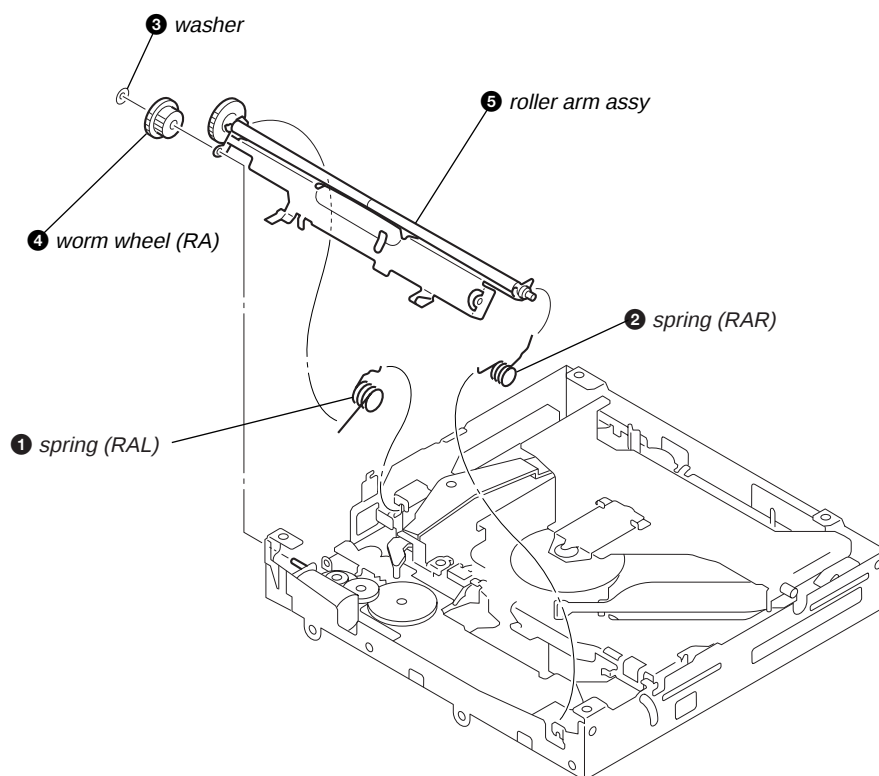
2-3. MAIN BOARD



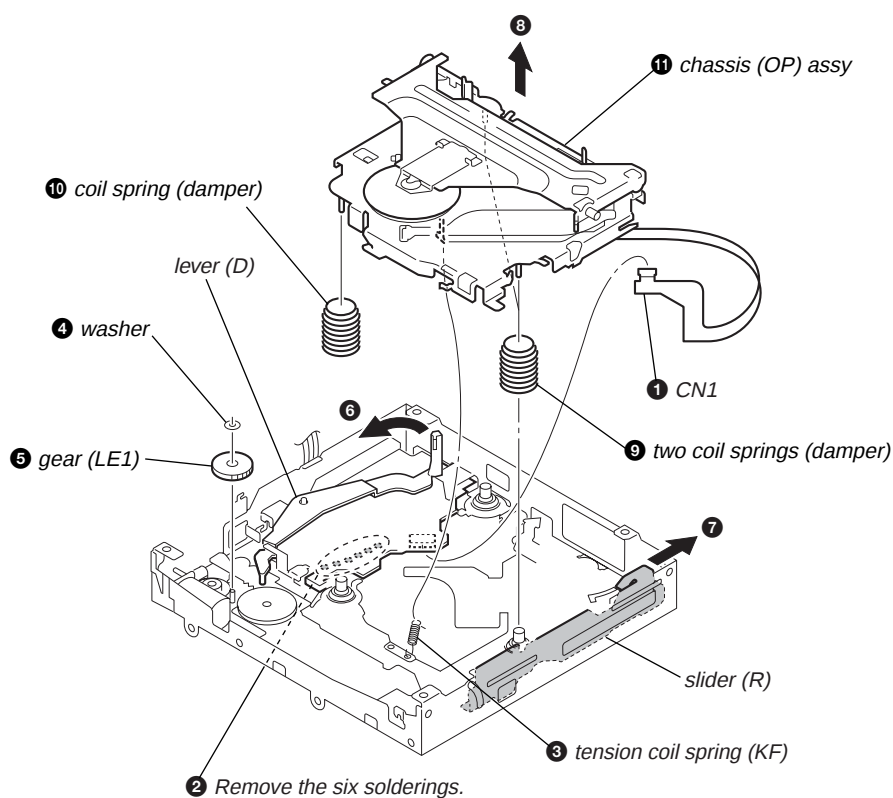
2-4. CHASSIS (T) SUB ASSY



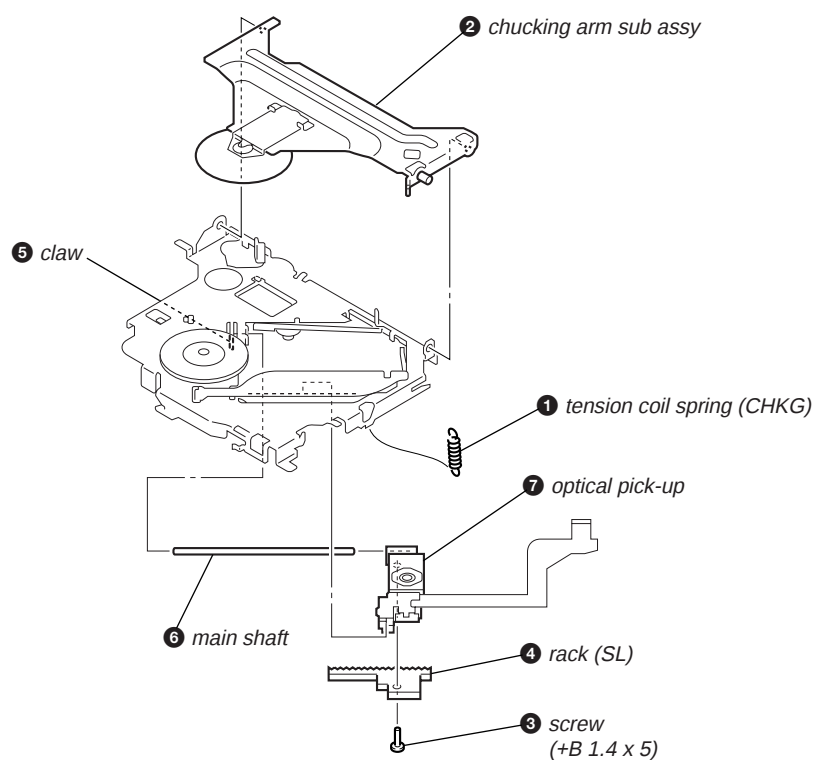
2-5. ROLLER ARM ASSY



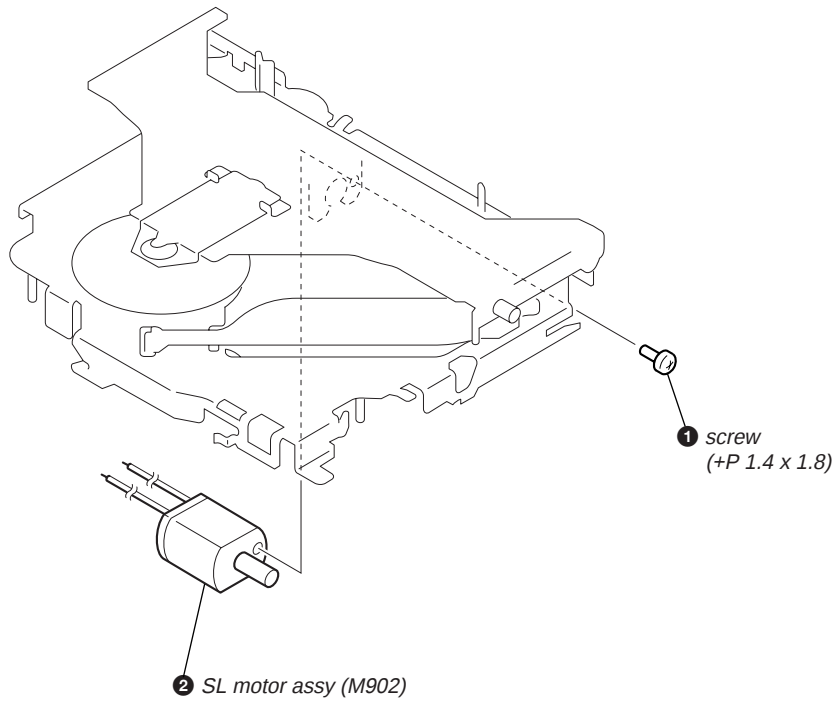
2-6. CHASSIS (OP) ASSY



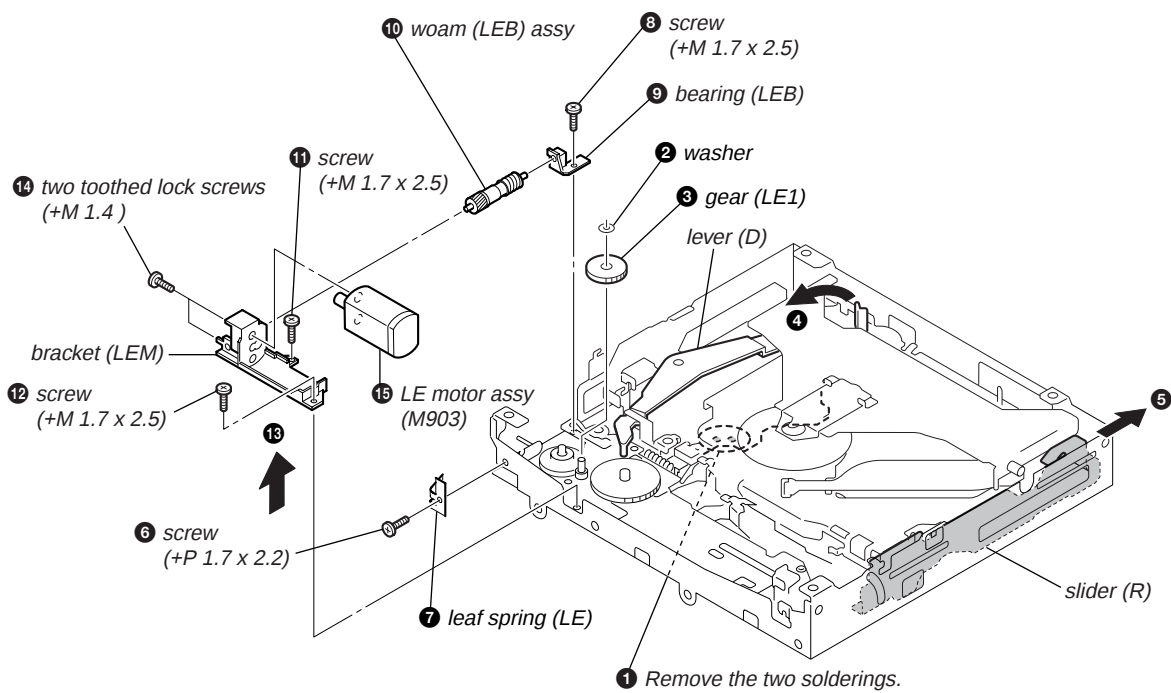
2-7. OPTICAL PICK-UP

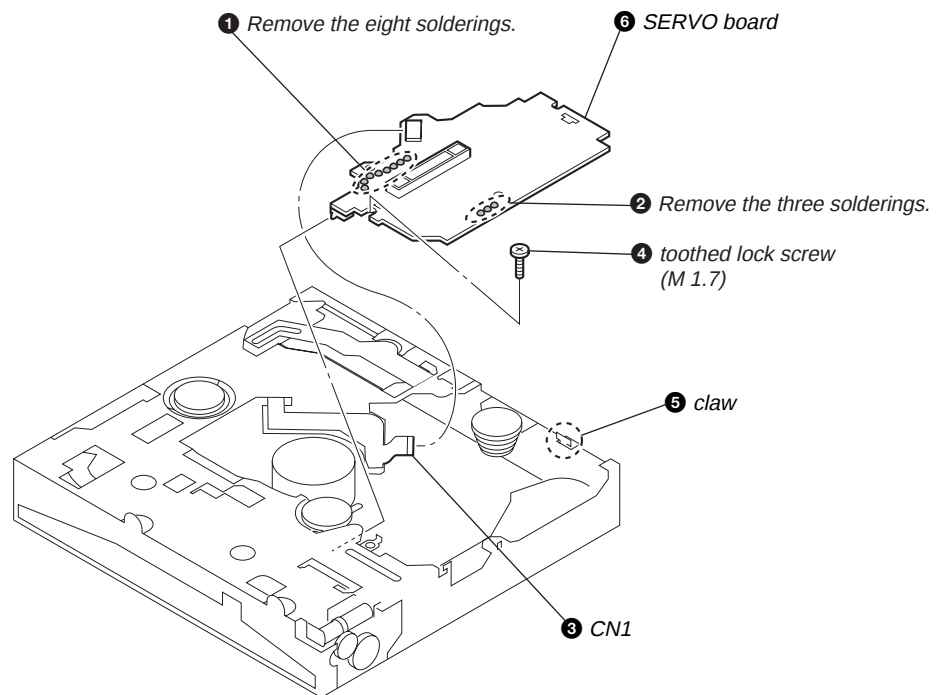


2-8. SL MOTOR ASSY (M902)



2-9. LE MOTOR ASSY (M903)



2-10. SERVO BOARD

SECTION 3 DIAGRAMS

3-1. IC PIN DESCRIPTIONS

• IC3 CXD3059AR (DIGITAL SERVO/DIGITAL SIGNAL PROCESSOR) (SERVO BOARD (1/2))

Pin No.	Pin Name	I/O	Pin Description
1	MIRR	I/O	Mirror signal input/output (Not used in this set)
2	DFCT	I/O	Defect signal input/output (Not used in this set)
3	FOK	I/O	Focus OK signal input/output
4	VSS	—	Ground
5	LOCK	I/O	Lock signal input/output (Not used in this set)
6	MDP	O	Spindle motor servo control signal output
7	SSTP	I	Disc most inner detection signal input (Fixed at L in this set)
8	IOVSS1	—	Digital ground
9	SFDR	O	Sled drive signal output (FWD direction)
10	SRDR	O	Sled drive signal output (REV direction)
11	TFDR	O	Tracking drive signal output (FWD direction)
12	TRDR	O	Tracking drive signal output (REV direction)
13	FFDR	O	Focus drive signal output (FWD direction)
14	FRDR	O	Focus drive signal output (REV direction)
15	IOVDD1	—	Digital power supply pin (+3.3 V)
16	AVDD0	—	Analog power supply pin (+3.2 V)
17	AVSS0	—	Analog ground
18	NC	—	Not used. (Open)
19	E	I	E signal input
20	F	I	F signal input
21	TEI	I	Tracking error signal input
22	TEO	O	Tracking error signal output
23	FEI	I	Focus error signal input
24	FEO	O	Focus error signal output
25	VC	I/O	VC voltage output/Center voltage input
26	A	I	A signal input
27	B	I	B signal input
28	C	I	C signal input
29	D	I	D signal input
30	NC	—	Not used. (Open)
31	AVDD4	—	Analog power supply pin (+3.2 V)
32	RFDCO	I/O	RFDC signal input/output (Not used in this set)
33	PDSSENS	I	Reference voltage input (Fixed at L in this set)
34	AC_SUM	O	RFAC summing amplifier signal output
35	EQ_IN	I	Equalizer circuit signal input
36	LD	O	APC amplifier signal output
37	PD	I	APC amplifier signal input
38	NC	—	Not used. (Open)
39	RFC	I	EQ cut off frequency adjustment input
40	AVSS4	—	Analog ground
41	RFACO	O	RFAC signal output
42	RFACI	I	RFAC signal input
43	AVDD3	—	Analog power supply pin (+3.2 V)
44	BIAS	I	Asymmetry circuit constant current input
45	ASYI	I	Asymmetry compare voltage input
46	ASYO	O	EFM full swing signal output
47	VPCO	O	Charge pump output
48	VCTL	I	VCO2 control voltage input
49	AVSS3	—	Analog ground
50	CLTV	I	VCO1 control voltage input
51	FILO	O	Filter signal output

Pin No.	Pin Name	I/O	Pin Description
52	FILI	I	Filter signal input
53	PCO	O	Charge pump output
54	AVDD5	—	Analog power supply pin (+3.3 V)
55	DDVROUT	O	DC/DC converter output
56	DDVRSEN	I	DC/DC converter output voltage monitor signal input
57	AVSS5	—	Analog ground
58	DDCR	I	Reset signal input
59	NC	—	Not used. (Open)
60	BCKI	I	D/A interface bit clock signal input
61	PCMDI	I	D/A interface serial data signal input
62	LRCKI	I	D/A interface LR clock signal input
63	LRCK	O	D/A interface LR clock signal output
64	VSS	—	Ground
65	PCMD	O	D/A interface serial data signal output
66	BCK	O	D/A interface bit clock signal output
67	VDD	—	Power supply pin (+2.6 V)
68	EMPH	O	Not used. (Open)
69	EMPHI	I	Not used. (Fixed at L in this set)
70	IOVDD2	—	Digital power supply pin (+3.3 V)
71	DOUT	—	Digital out signal output (Not used in this set)
72, 73	TEST	I	Test pin (Normally, fixed at L)
74	IOVSS2	—	Digital ground
75	NC	—	Not used. (Open)
76	XVSS	—	Ground
77	XTAO	O	Master clock signal output (16.9344 MHz)
78	XTAI	I	Master clock signal input (16.9344 MHz)
79	XVDD	—	Power supply pin (+2.6 V)
80	AVDD1	—	Analog power supply pin (+3.3 V)
81	AOUT1	O	L channel analog signal output
82	VREFL	O	L channel reference voltage output
83, 84	AVSS1,AVSS2	—	Analog ground
85	VREFR	O	R channel reference voltage output
86	AOUT2	O	R channel analog signal output
87	AVDD2	—	Analog power supply pin (+3.3 V)
88	NC	—	Not used. (Open)
89	IOVDD0	—	Digital power supply pin (+3.3 V)
90	RMUT	O	R channel “0” detection flug output
91	LMUT	O	L channel “0” detection flug output
92	NC	—	Not used. (Open)
93	XTSL	I	Sub clock signal input (Fixed at L in this set)
94	IOVSS0	—	Digital ground
95	XTACN	I	Oscillation circuit control signal input (Fixed at H in this set)
96	SQSO	O	Sub 80 bit, PCM peak and level data signal output
97	SQCK	I	Clock signal input
98	SBSO	O	Sub P-W serial data signal output (Not used in this set)
99	EXCK	I	Clock signal input (Not used in this set)
100	XRST	I	System reset signal input
101	SYSM	I	Mute signal input (Fixed at L in this set)
102	DATA	I	Serial data signal input
103	VSS	—	Ground
104	XLAT	I	Latch signal input
105	CLOK	I	Serial data transfer clock signal input
106	VDD	—	Power supply pin (+2.6 V)

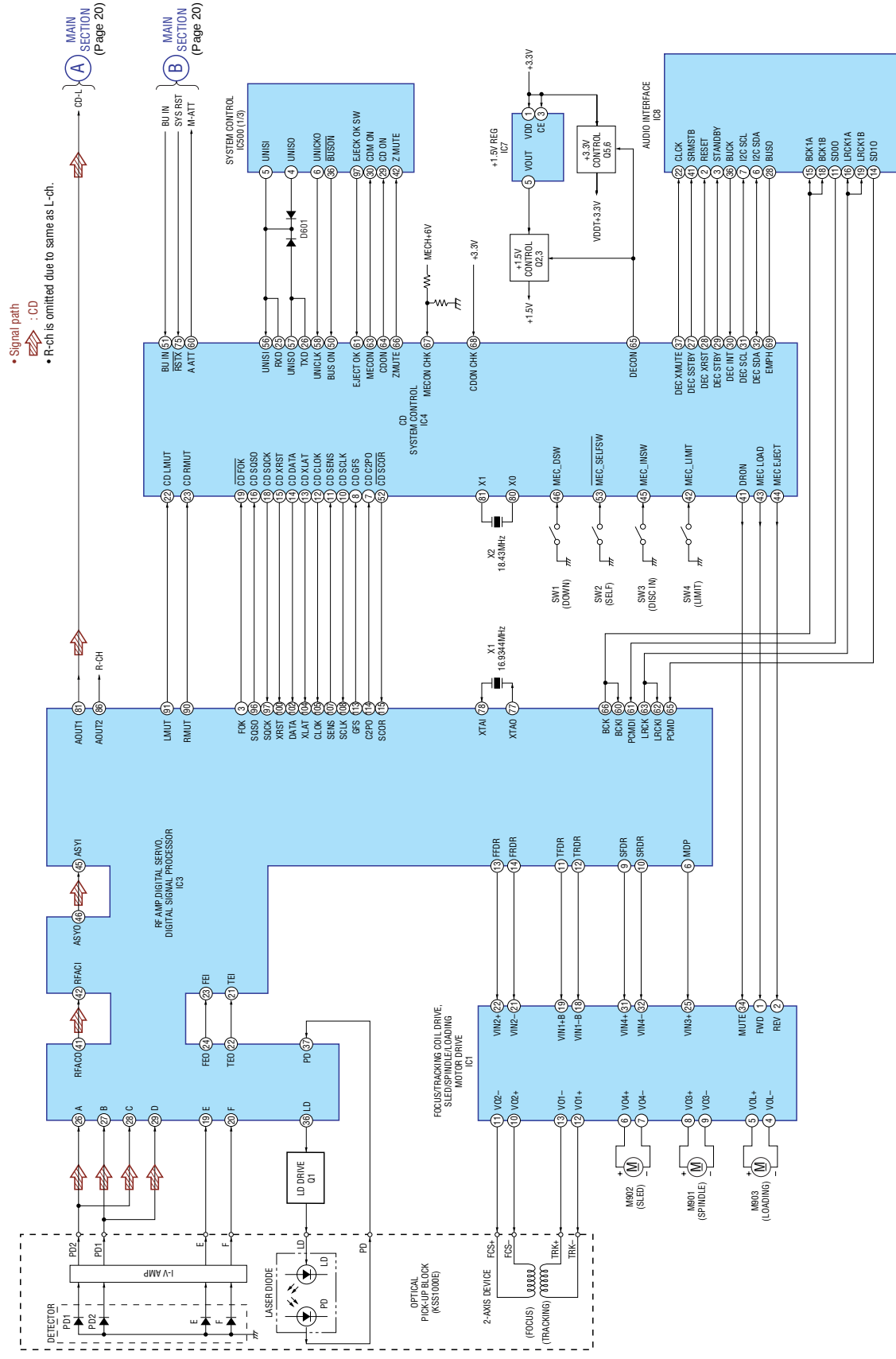
Pin No.	Pin Name	I/O	Pin Description
107	SENS	O	SENS signal output
108	SCLK	I	Clock signal input
109	ATSK	I/O	Input/output for anti-shock. (Fixed at L in this set)
110	WFCK	O	WFCK signal output (Not used in this set)
111	XUGF	O	XUGF signal output (Not used in this set)
112	XPCK	O	XPCK signal output (Not used in this set)
113	GFS	O	GFS signal output
114	C2PO	O	C2PO signal output
115	SCOR	O	Sub code sync signal output
116	VDD	—	Power supply pin (+2.6 V)
117	C4M	O	4.2366 MHz signal output (Not used in this set)
118	WDCK	O	Word clock signal output (Not used in this set)
119	COUT	I/O	Track count signal output/output (Not used in this set)
120	NC	—	Not used. (Open)

• IC500 MN101E01KDK (SYSTEM CONTROL) (MAIN BOARD (2/2))

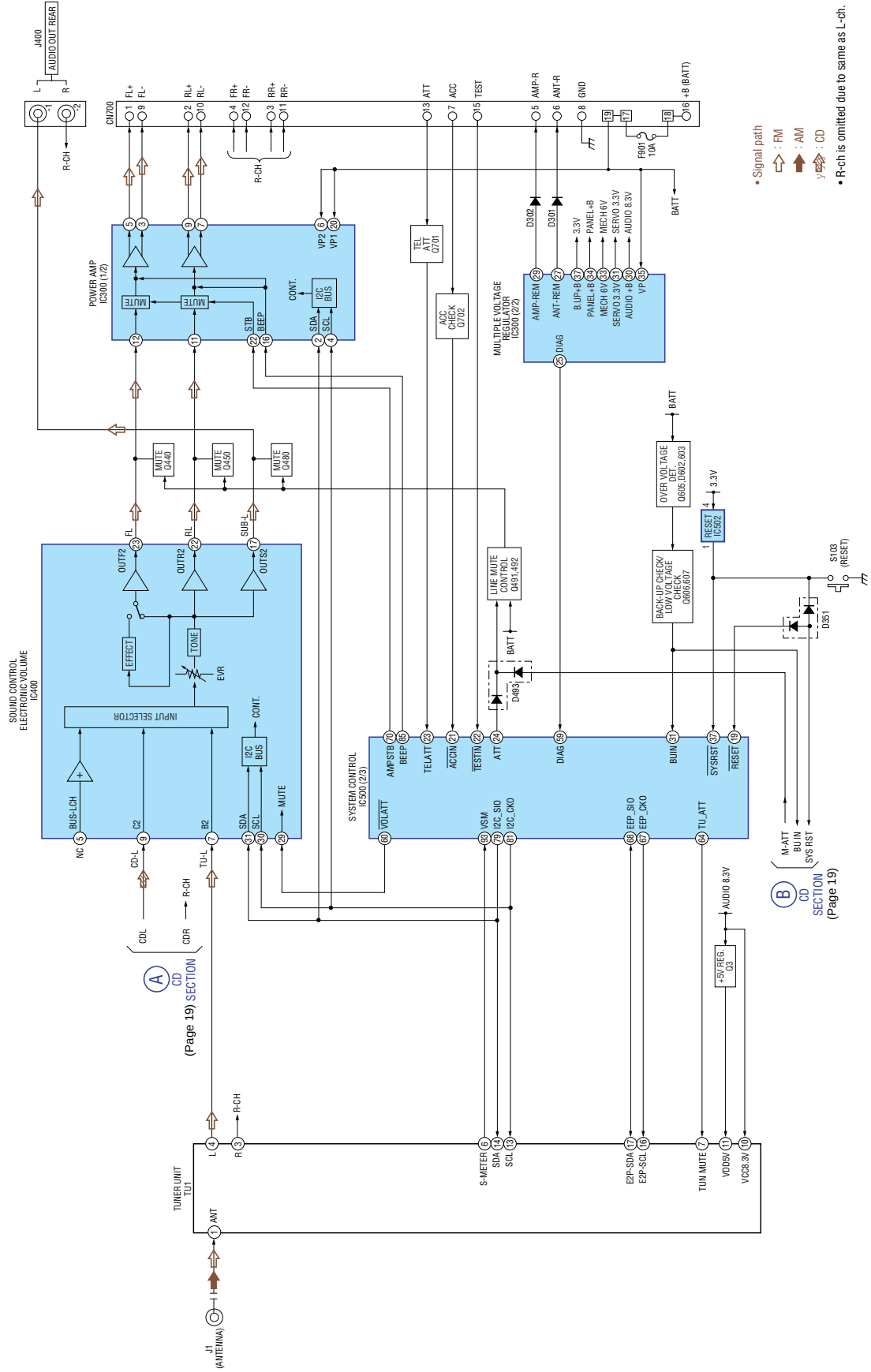
Pin No.	Pin Name	I/O	Pin Description
1	DAVDD	—	D/A converter power supply (+) pin (+3.3 V)
2	NCO	O	Not used. (Open)
3	DAVSS	—	D/A converter power supply (–) pin
4	UNISO	O	SONY-BUS data output (Not used in this set)
5	UNISI	I	SONY-BUS data input (Not used in this set)
6	UNICKO	O	SONY-BUS clock output (Not used in this set)
7	RETRA_SW	I	Retractable CD door open/close detection switch input (L: CD door open, H: CD door close)
8, 9	NCO	O	Not used. (Open)
10	VDD1	—	Power supply pin (+3.3 V)
11	MMOD	I	Not used. (Fixed at L in this set)
12	OSCOU	O	Main clock output (27.648 MHz)
13	OSCIN	I	Main clock input (27.648 MHz)
14	VSS1	—	Ground
15	XIN	I	Sub clock input (32.768 kHz)
16	XOUT	O	Sub clock output (32.768 kHz)
17	VDD2	—	Power supply pin (+3.3 V)
18	MOD1	—	Not used. (Fixed at H in this set)
19	RESET	I	Microcomputer reset input
20	RCIN1	I	Rotary commander SHIFT key input
21	ACCIN	I	Accessory power supply detection input
22	TESTIN	I	Test mode detection input
23	TELATT	I	Telephone attenuator detection input
24	ATT	O	Audio mute control output
25	ADON	O	A/D converter power supply control output
26	NCO	O	Not used. (Open)
27	KEYACK	I	Key acknowledge detection input
28	TUATTIN	I	Not used. (Fixed at L in this set)
29	CDON	I	Servo power supply control input from CD system control IC.
30	CDMON	I	Loading 6V power supply control input from CD system control IC.
31	BUIN	I	Backup power supply detection input
32 to 35	NCO	O	Not used. (Open)
36	BUSON	O	BUS ON output to CD system control IC.
37	SYSRST	O	System reset output to CD system control IC.
38 to 41	NCO	O	Not used. (Open)
42	Z_MUTE	I	Mute zero cross detection input from CD system control IC.
43 to 49	NCO	O	Not used. (Open)
50	BSEL	I	Fixed at H in this set.
51	NCO	O	Not used. (Open)
52	AREASEL1	I	Destination area initial setting input (Fixed at L in this set)
53	AREASEL0	I	Destination area initial setting input (Fixed at H in this set)
54 to 56	NCO	O	Not used. (Open)
57	EJECT_OK_SW	O	Eject OK output
58	PANESW	I	Front panel detach detection input (L: with front panel, H: without front panel)
59	DIAG	I	Mode input from power amp IC.
60	VOLATT	O	Attenuator control output to electronic volume IC.
61	NOSESW	O	Not used. (Open)
62	NCO	O	Not used. (Open)
63	VSS2	—	Ground
64	TUATT	O	Tuner mute control output
65	NCO (TUON)	O	Not used. (Open)
66	NSMASK	O	Not used. (Open)

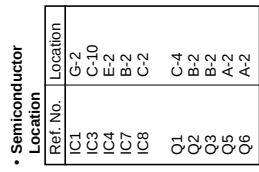
Pin No.	Pin Name	I/O	Pin Description
67	E2P_CKO	O	Serial clock output to EEPROM communication.
68	E2P_SIO	I/O	Serial data input/output with EEPROM communication.
69	DOORIND	O	Not used. (Open)
70	AMPSTB	O	Standby control output to power amp IC.
71	NCO	O	Not used. (Open)
72	FLS.SO/LCDSO	O	Serial data output to LCD driver IC.
73	FLS.SI/LCDCE	O	Chip enable output to LCD driver IC.
74	LCDCKO	O	Serial clock output to LCD driver IC.
75 to 78	NCO	O	Not used. (Open)
79	I2C_SIO	I/O	I2C bus serial data input/output
80	NCO	O	Not used. (Open)
81	I2C_CKO	O	I2C bus serial clock output
82	DAVN	I	Not used. (Fixed at L in this set)
83	SIRCS	I	SIRCS signal input
84	NCO	O	Not used. (Open)
85	BEEP	O	Beep output to power amp IC.
86 to 88	NCO	O	Not used. (Open)
89	VDD3	—	Power supply pin (+3.3 V)
90	NCO	O	Not used. (Open)
91	VSS3	—	Ground
92	QUALITY	I	Not used. (Fixed at L in this set)
93	VSM	I	S-meter voltage detection input
94, 95	KEYIN1, 0	I	Key input 1, 0
96	RCIN0	I	Rotary commander key input
97 to 99	NCO	O	Not used. (Open)
100	VREF+	—	A/D converter power supply (+) pin (+3.3 V)

3-2. BLOCK DIAGRAM — CD SECTION —

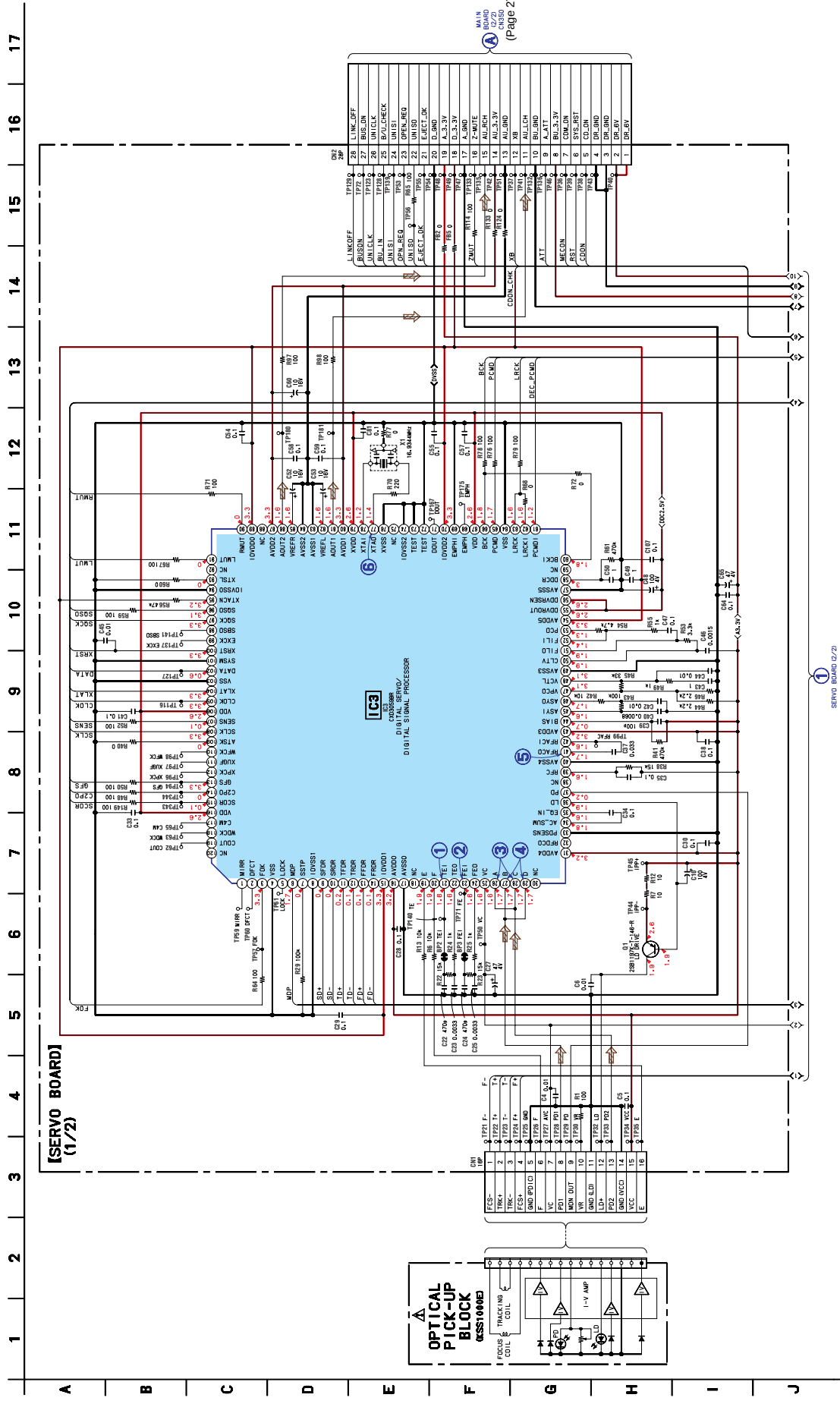


3-3. BLOCK DIAGRAM — TUNER SECTION —





3-6. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (1/2) — • Refer to page 21 for Common Note on Schematic Diagram and Waveforms.



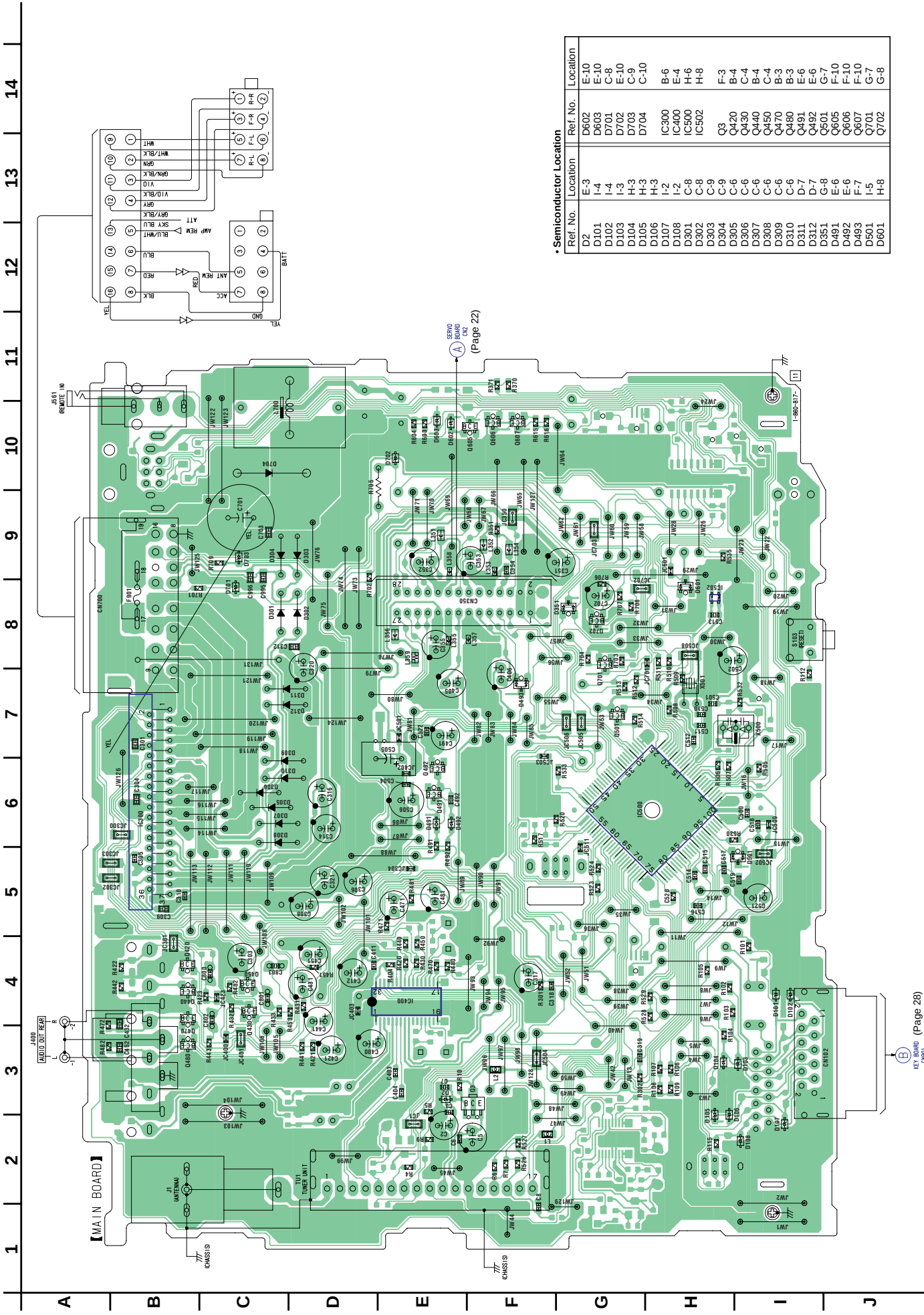
Note:

- Voltage is dc with respect to ground under no-signal conditions.

no mark : CD PLAY

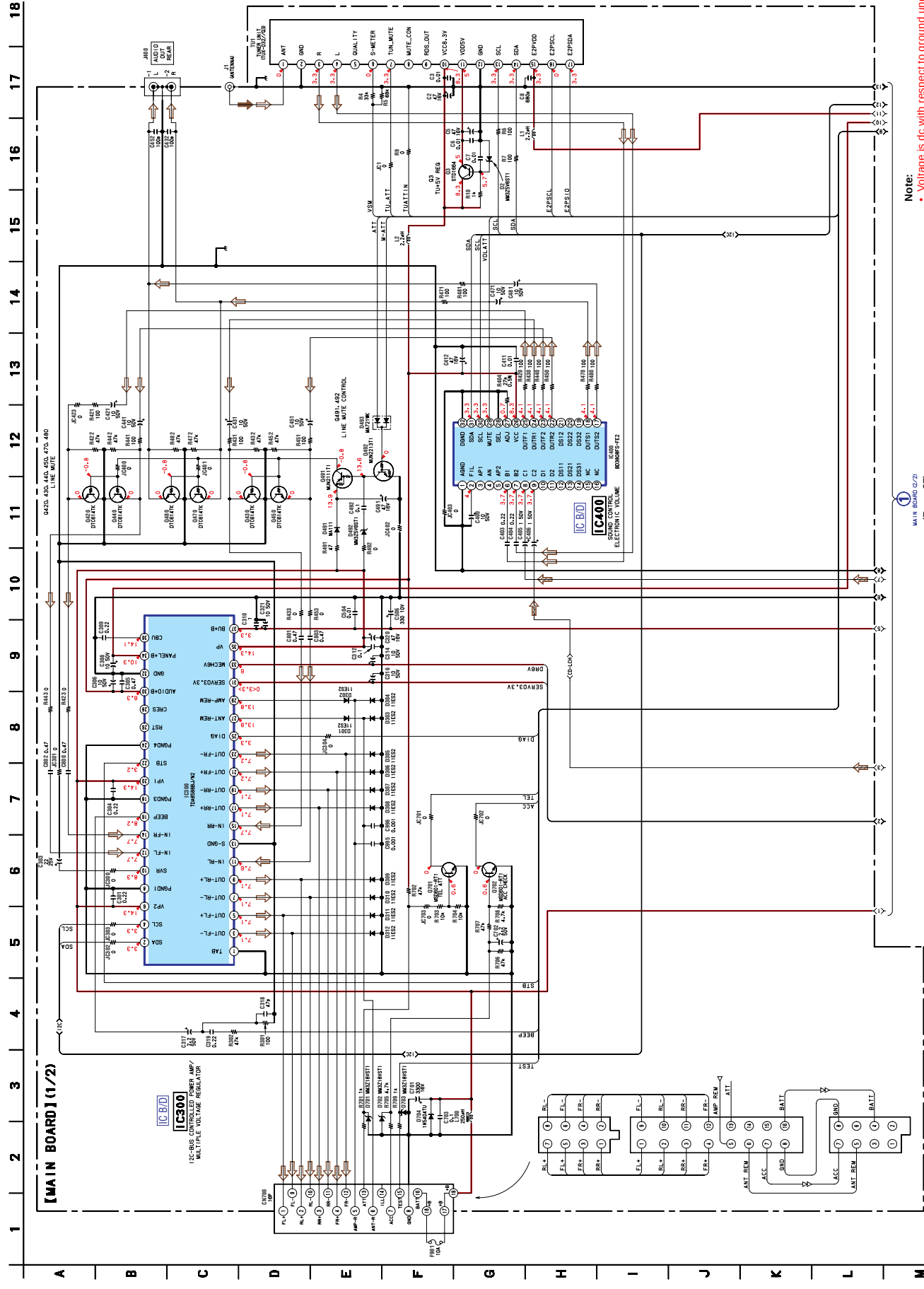


3-8. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 21 for Common Note on Printed Wiring Boards.  : Uses unleaded solder.



3-9. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) — • Refer to page 21 for Common Note on Schematic Diagram and Waveforms.

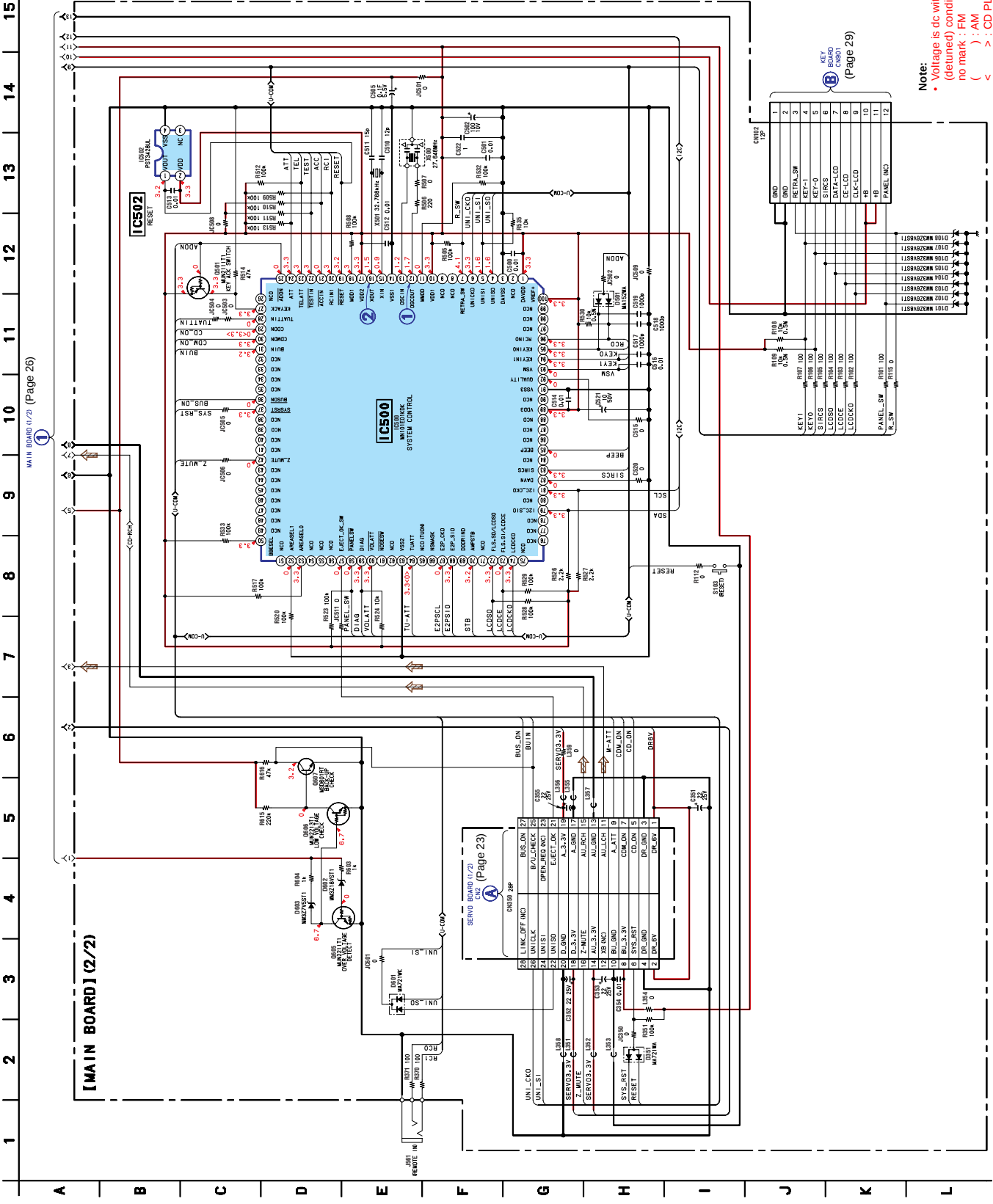
- Refer to page 30 for IC Block Diagrams.



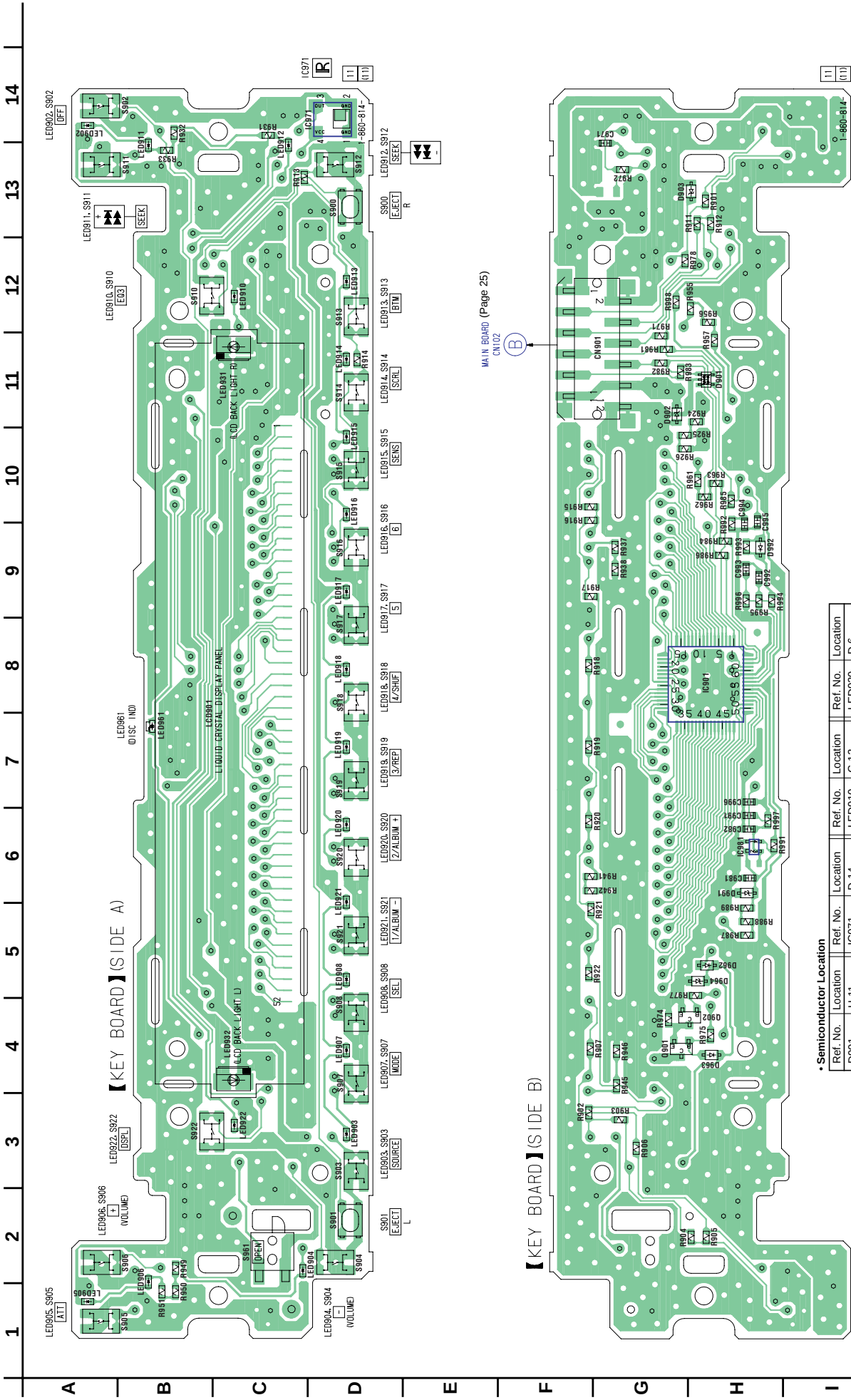
Note:

- NOTE:**
- Voltage is dc with respect to ground under no-signal (detuned) condition.
- no mark : FM
() : AM
< : > : CD PLAY

3-10. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 21 for Common Note on Schematic Diagram and Waveforms.



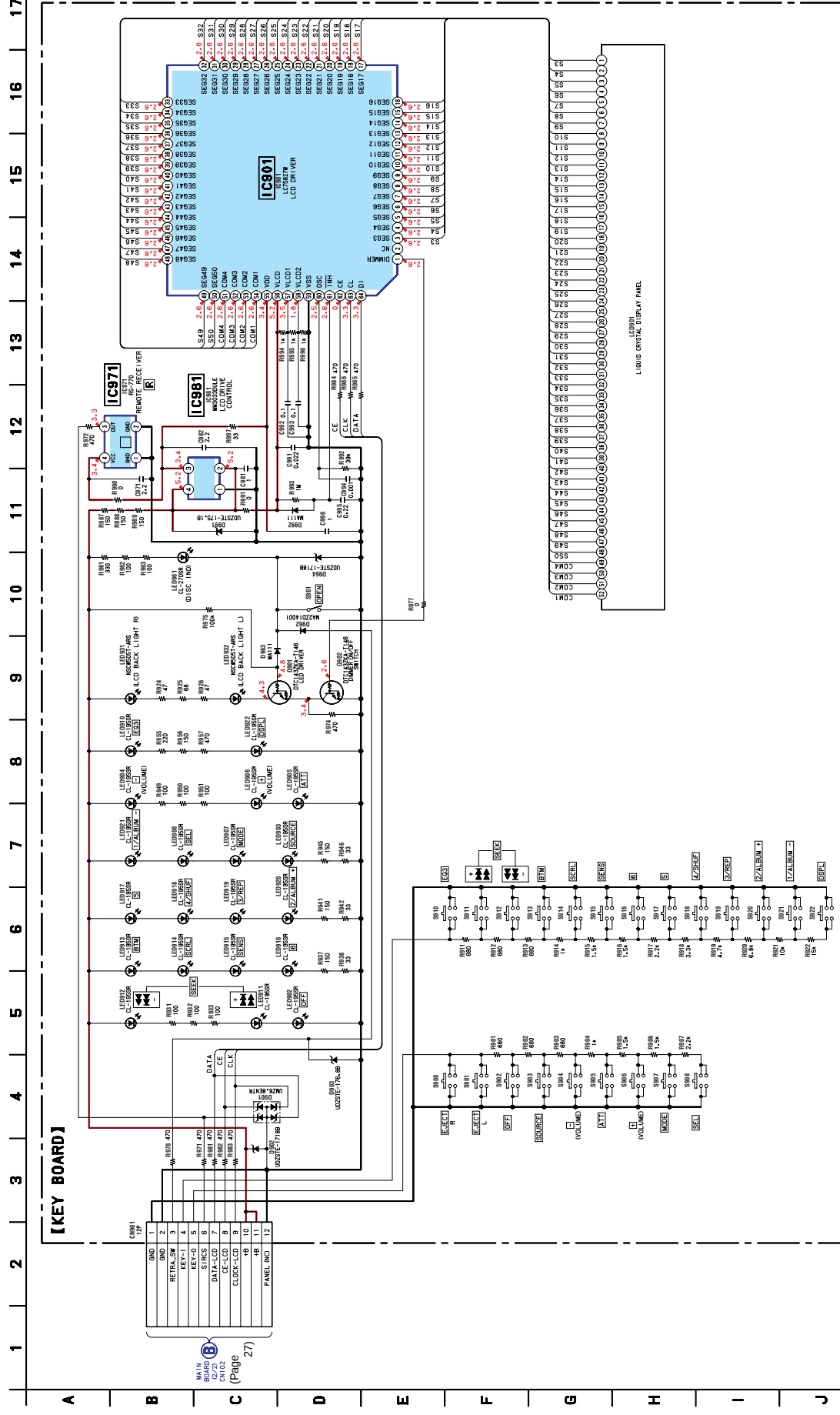
3-11. PRINTED WIRING BOARD — KEY SECTION — • Refer to page 21 for Common Note on Printed Wiring Boards.  : Uses unloaded solder.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D901	H-11	IC871	D-14	LED910	C-12	LED920	D-6
D902	G-11	IC881	H-6	LED911	B-13	LED921	D-6
D903	G-13			LED912	C-13	LED922	C-3
D962	H-5	LED902	A-14	LED913	D-12	LED931	C-11
D963	H-4	LED903	D-3	LED914	D-11	LED932	C-4
D964	H-5	LED904	D-2	LED915	D-10	LED961	B-7
D991	H-6	LED905	A-1	LED916	D-9		
D992	H-9	LED906	B-1	LED917	D-8	Q901	G-4
		LED907	D-4	LED918	D-8	Q902	H-4
IC901	H-8	LED908	D-5	LED919	D-7		

3-12. SCHEMATIC DIAGRAM — KEY SECTION — • Refer to page 21 for Common Note on Schematic Diagram.

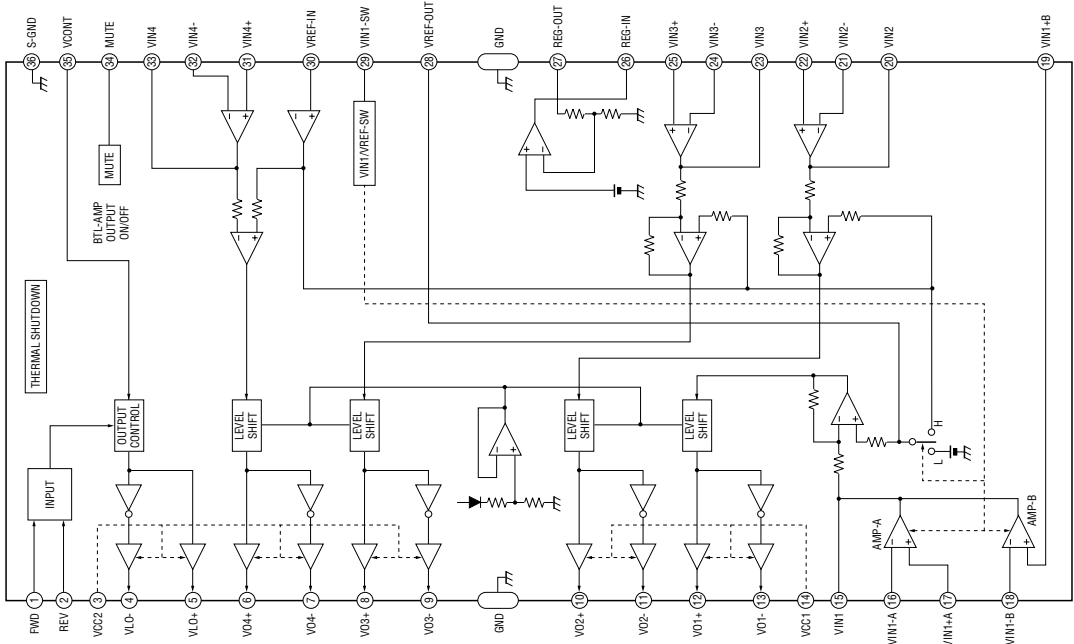


Note:

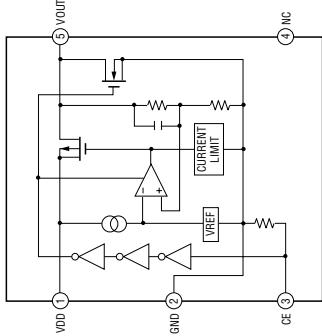
- Voltage is dc with respect to ground under no-signal (detuned) condition.
no mark : FM

3-13. IC BLOCK DIAGRAMS

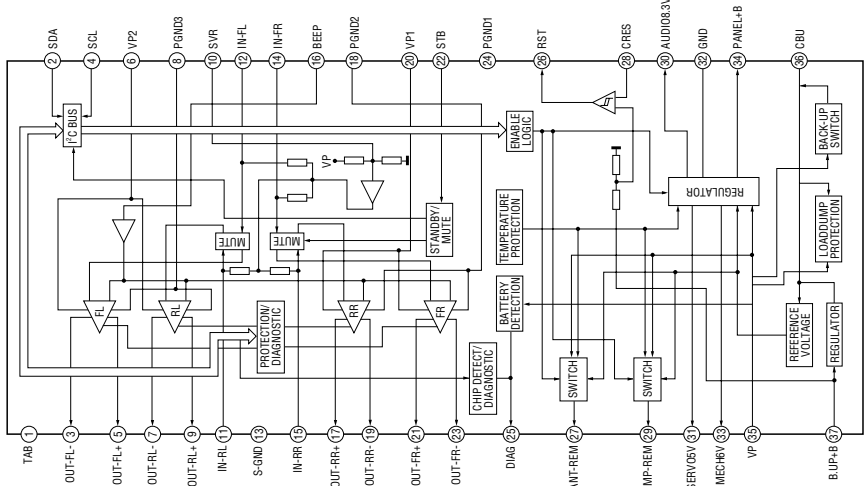
IC1 LA6560-TE-L-E



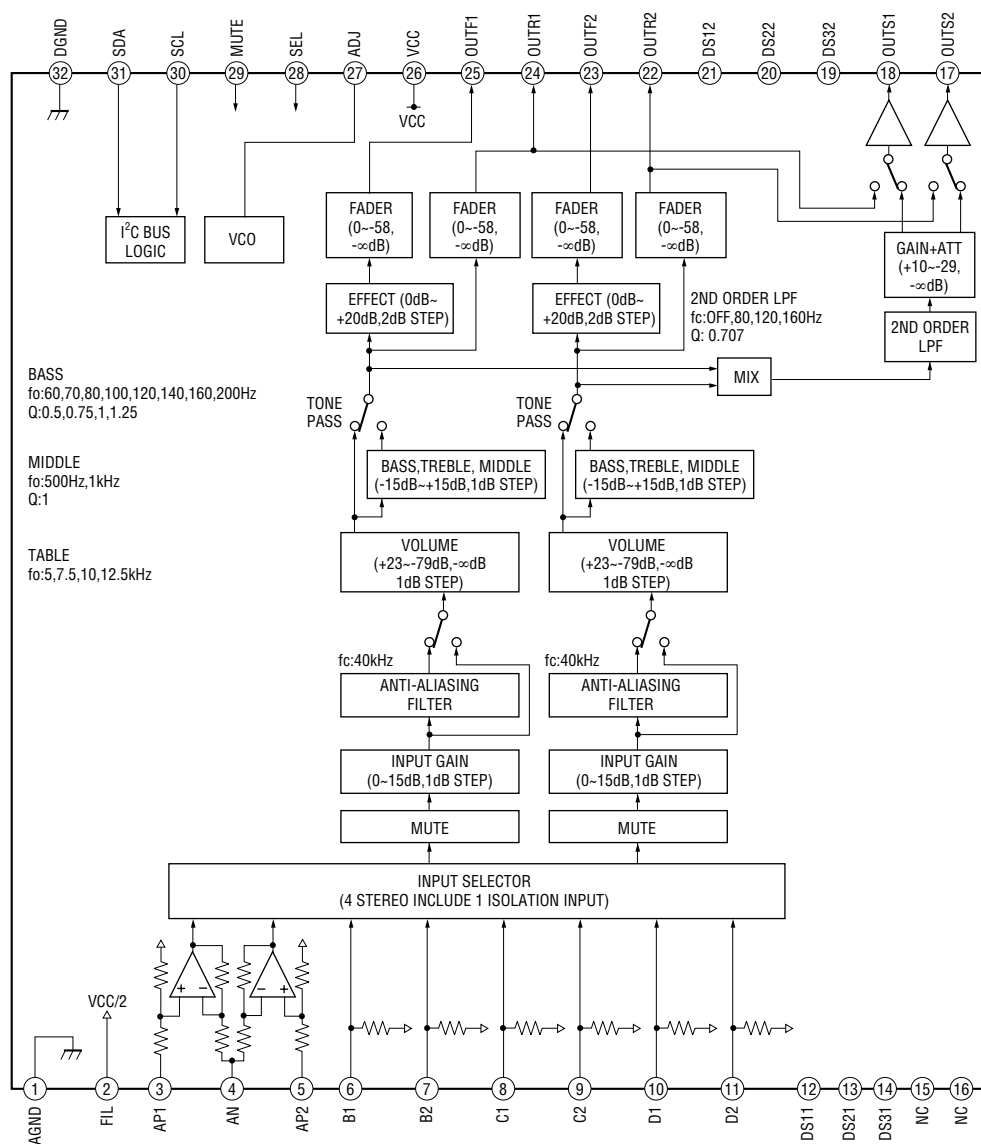
IC7 R1114N151D-TR-FA



IC300 TDA8588BJ/N2



IC400 BD3808FS-FE2



SECTION 4

EXPLODED VIEWS

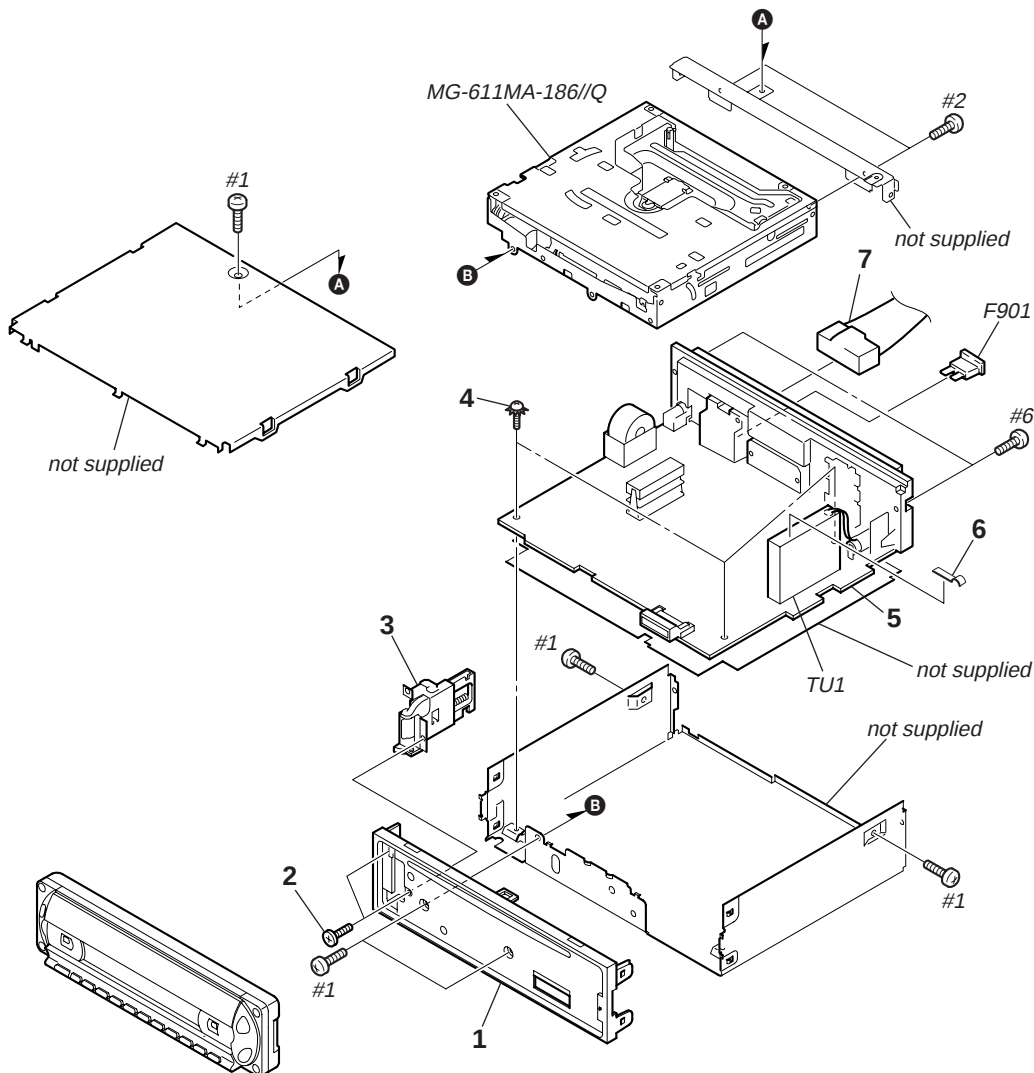
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked “**” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts
Example :
 KNOB, BALANCE (WHITE) ... (RED)
 ↑ ↑
 Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.

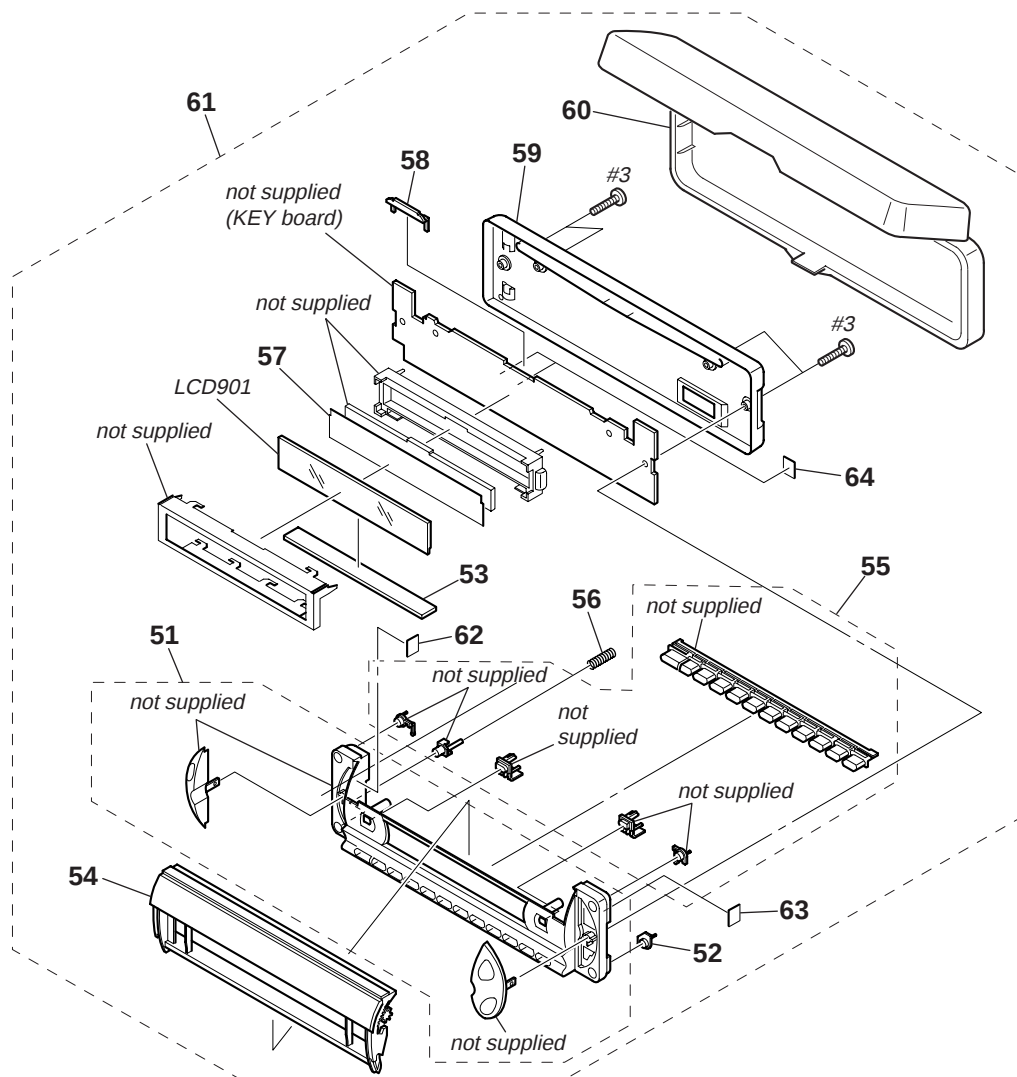
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

4-1. MAIN SECTION



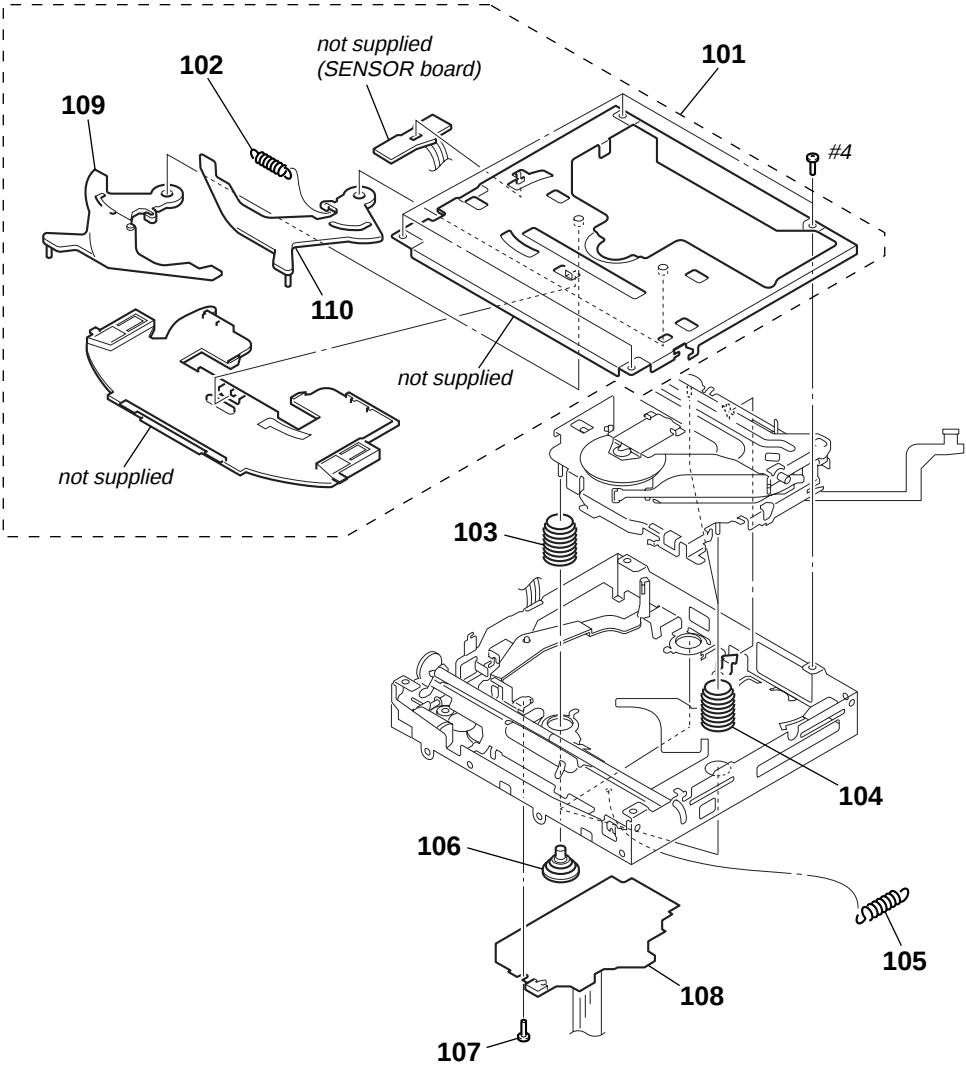
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-3384-176-2	PANEL SUB ASSY, SUB		7	1-776-527-61	CORD (WITH CONNECTOR) (ISO) (POWER)	
2	3-042-244-11	SCREW (T)		F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
3	X-3383-739-1	LOCK ASSY (S)		TU1	A-3220-961-A	TUNER UNIT (TUX-032//Q3)	
4	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT		#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
5	A-3283-513-A	MAIN BOARD, COMPLETE		#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	
6	3-246-481-01	PLATE (TU), GROUND		#6	7-685-793-09	SCREW +PTT 2.6X8 (S)	

4-2. FRONT PANEL SECTION



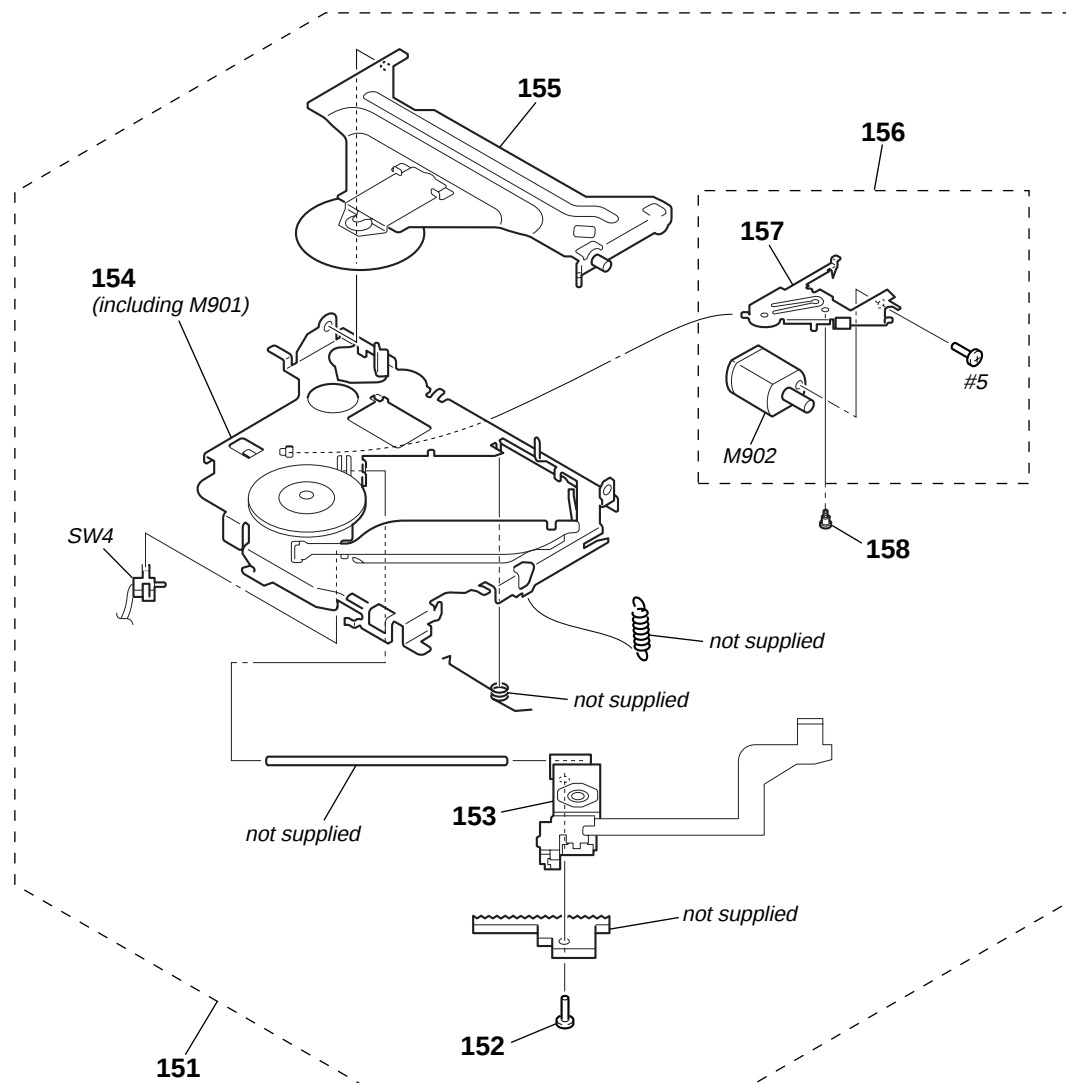
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3384-683-2	PANEL SUB ASSY, FRONT		59	3-258-937-01	PANEL, FRONT BACK	
52	3-258-947-01	FILTER (IR)		60	X-3383-264-2	CASE ASSY (for FRONT PANEL)	
53	1-780-096-11	CONDUCTIVE BOARD, CONNECTION		61	A-3372-774-A	PANEL COMPLETE ASSY, FRONT	
54	A-3372-541-A	RETRACTABLE ASSY		62	3-266-165-01	SPACER (B)	
55	X-3384-380-1	BUTTON ASSY (S)		63	3-266-163-01	SPACER (A)	
56	3-246-479-01	SPRING (RELEASE)		64	3-253-896-11	SHEET (H), ADHESIVE	
57	3-258-952-01	SHEET (ILLUMINATOR)		LCD901	1-805-451-11	DISPLAY PANEL, LIQUID CRYSTAL	
58	3-258-948-01	PLATE (CD), LIGHT GUIDE		#3	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	

4-3. CD MECHANISM SECTION (1)
(MG-611MA-186//Q)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-3372-444-A	CHASSIS (T) SUB ASSY		107	3-352-758-31	SCREW (M1.7), TOOTHED LOCK	
102	3-253-729-11	SPRING (LTR), TENSION COIL		108	A-3283-357-A	SERVO BOARD, COMPLETE	
103	3-257-892-11	SPRING (DAMPER), COIL		109	X-3384-088-1	LEVER (L) ASSY	
104	3-257-892-01	SPRING (DAMPER), COIL		110	X-3384-089-1	LEVER (R) ASSY	
105	3-253-695-11	SPRING (KF), TENSION COIL		#4	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	
106	3-259-033-01	DAMPER (S)					

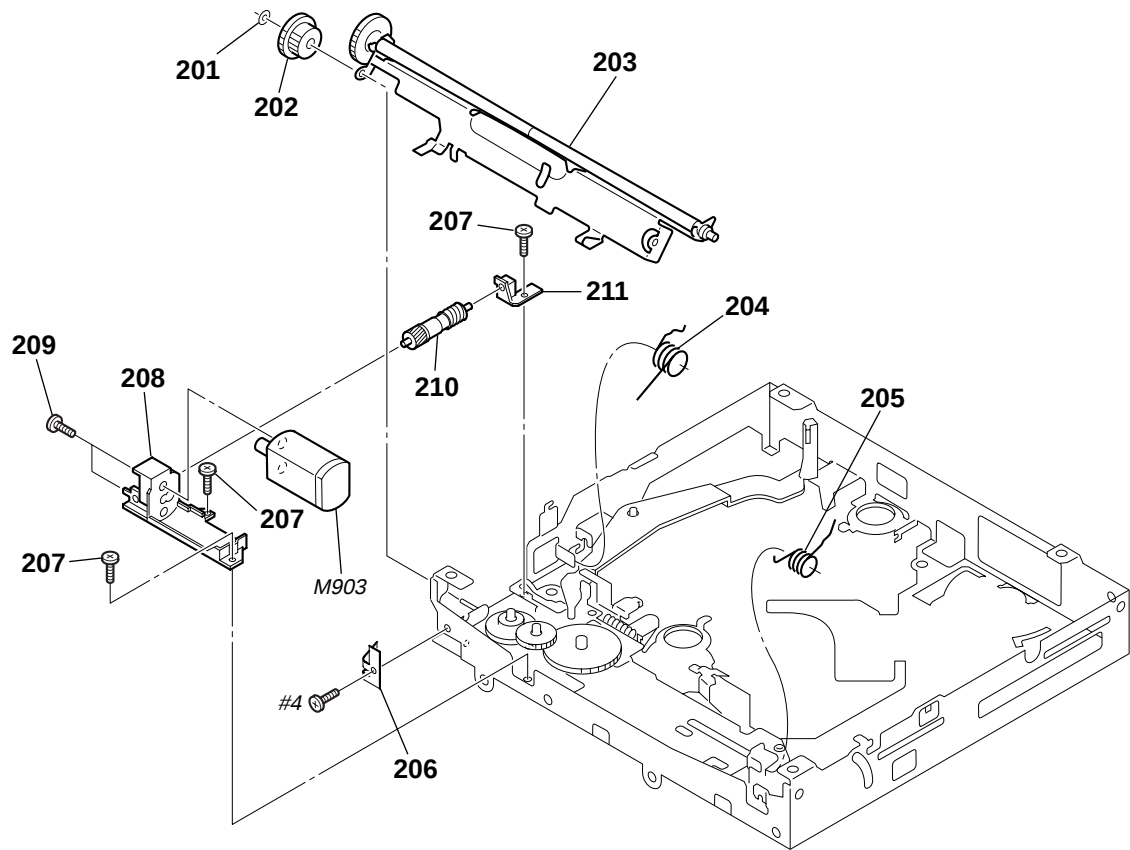
4-4. CD MECHANISM SECTION (2) (MG-611MA-186//Q)



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

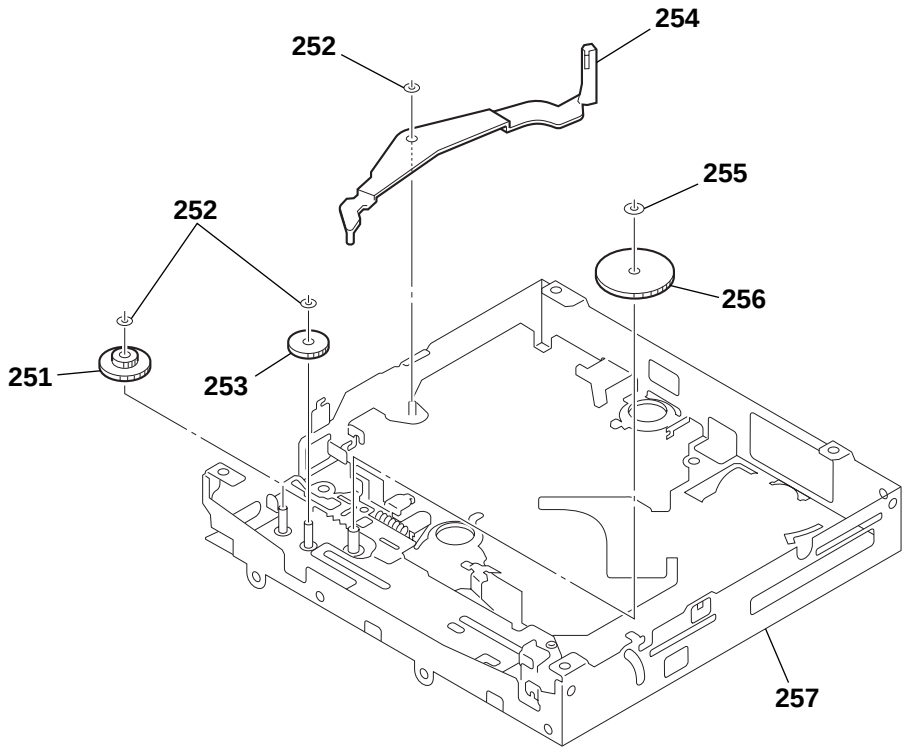
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	A-3372-445-A	CHASSIS (OP) COMPLETE ASSY		157	X-3384-090-2	LEVER (SL) ASSY	
152	3-316-938-91	SCREW (B1.4X5), TAPPING		158	3-264-165-12	SCREW	
$\triangle$ 153	8-820-207-02	OPTICAL PICK-UP (KSS1000E/K1RP)		M902	A-3372-447-A	MOTOR ASSY, SL (SLED)	
154	A-3372-448-A	CHASSIS (OP) SUB ASSY (including M901)		SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)	
155	A-3372-449-A	ARM SUB ASSY, CHUCKING		#5	7-627-850-77	SCREW, PRECISION +P 1.4X1.8	
156	A-3372-446-A	LEVER (SL) SUB ASSY					

4-5. CD MECHANISM SECTION (3)
(MG-611MA-186//Q)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-348-993-01	WASHER		208	3-259-467-11	BRACKET (LEM)	
202	3-259-024-01	WHEEL (RA), WORM		209	3-345-648-91	SCREW (M1.4), TOOTHED LOCK	
203	A-3372-441-A	ARM ASSY, ROLLER		210	A-3372-450-A	WORM (LEB) ASSY	
204	3-259-455-11	SPRING (RAL)		211	3-259-468-11	BEARING (LEB)	
205	3-253-713-11	SPRING (RAR)		M903	A-3372-443-A	MOTOR ASSY, LE (LOADING)	
206	3-259-469-11	SPRING (LE), LEAF		#4	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	
207	2-134-636-21	SCREW (M1.7X2.5)					

4-6. CD MECHANISM SECTION (4)
(MG-611MA-186//Q)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	3-259-429-11	WHEEL (LE), WORM		255	3-899-829-01	WASHER (SLIT)	
252	3-344-223-01	WASHER		256	3-259-032-01	GEAR (LE2)	
253	3-259-470-11	GEAR (LE1)		257	A-3337-998-A	CHASSIS (M) BLOCK ASSY	
254	3-253-755-12	LEVER (D)					

SECTION 5

ELECTRICAL PARTS LIST

NOTE:

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

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		KEY BOARD *****					
	1-780-096-11	CONDUCTIVE BOARD, CONNECTION		LED907	6-500-450-01	LED CL-195SR-CD-T (MODE)	
	3-258-952-01	SHEET (ILLUMINATOR)		LED908	6-500-450-01	LED CL-195SR-CD-T (SEL)	
		< CAPACITOR >		LED910	6-500-450-01	LED CL-195SR-CD-T (EQ3)	
C971	1-135-834-11	CERAMIC CHIP 2.2uF	6.3V	LED911	6-500-450-01	LED CL-195SR-CD-T (SEEK +/▶▶▶/▶▶▶)	
C981	1-165-908-11	CERAMIC CHIP 1uF	10% 10V	LED912	6-500-450-01	LED CL-195SR-CD-T (SEEK -/◀◀◀/◀◀◀)	
C982	1-135-834-11	CERAMIC CHIP 2.2uF	6.3V	LED913	6-500-450-01	LED CL-195SR-CD-T (BTM)	
C991	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V	LED914	6-500-450-01	LED CL-195SR-CD-T (SCRL)	
C992	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	LED915	6-500-450-01	LED CL-195SR-CD-T (SENS)	
C993	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	LED916	6-500-450-01	LED CL-195SR-CD-T (6)	
C994	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	LED917	6-500-450-01	LED CL-195SR-CD-T (5)	
C995	1-127-715-11	CERAMIC CHIP 0.22uF	10% 16V	LED918	6-500-450-01	LED CL-195SR-CD-T (4/SHUF)	
C996	1-165-908-11	CERAMIC CHIP 1uF	10% 10V	LED919	6-500-450-01	LED CL-195SR-CD-T (3/REP)	
		< CONNECTOR >		LED920	6-500-450-01	LED CL-195SR-CD-T (2/ALBUM +)	
CN901	1-794-312-11	PIN, CONNECTOR 12P		LED921	6-500-450-01	LED CL-195SR-CD-T (1/ALBUM -)	
		< DIODE >		LED922	6-500-450-01	LED CL-195SR-CD-T (DSPL)	
D901	8-719-085-72	DIODE UMZ6.8ENTR		LED931	6-500-459-01	LED NSCW505T-ARS (LCD BACK LIGHT R)	
D902	8-719-083-66	DIODE UDZS-TE17-18B		LED932	6-500-459-01	LED NSCW505T-ARS (LCD BACK LIGHT L)	
D903	8-719-978-33	DIODE DTZ-TT11-6.8B		LED961	8-719-082-38	LED CL-270SR-C-TS (DISC IND)	
D962	8-719-072-70	DIODE MA2ZD14001S0				< TRANSISTOR >	
D963	8-719-404-50	DIODE MA1111-TX		Q901	8-729-027-58	TRANSISTOR DTC143ZKA-T146	
D964	8-719-083-66	DIODE UDZS-TE17-18B		Q902	8-729-027-58	TRANSISTOR DTC143ZKA-T146	
D991	8-719-069-54	DIODE UDZS-TE17-5.1B				< RESISTOR >	
D992	8-719-404-50	DIODE MA1111-TX		R901	1-216-819-11	METAL CHIP 680 5% 1/10W	
		< IC >		R902	1-216-819-11	METAL CHIP 680 5% 1/10W	
IC901	6-705-180-01	IC LC75827W		R903	1-216-819-11	METAL CHIP 680 5% 1/10W	
IC971	6-600-163-01	IC RS-770 (IR)		R904	1-216-821-11	METAL CHIP 1K 5% 1/10W	
IC981	6-705-374-01	IC MM3033DULE		R905	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
		< LIQUID CRYSTAL DISPLAY >		R906	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
LCD901	1-805-451-11	DISPLAY PANEL, LIQUID CRYSTAL		R907	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
		< DIODE >		R911	1-216-819-11	METAL CHIP 680 5% 1/10W	
LED902	6-500-450-01	LED CL-195SR-CD-T (OFF)		R912	1-216-819-11	METAL CHIP 680 5% 1/10W	
LED903	6-500-450-01	LED CL-195SR-CD-T (SOURCE)		R913	1-216-819-11	METAL CHIP 680 5% 1/10W	
LED904	6-500-450-01	LED CL-195SR-CD-T (- (VOLUME))		R914	1-216-821-11	METAL CHIP 1K 5% 1/10W	
LED905	6-500-450-01	LED CL-195SR-CD-T (ATT)		R915	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
LED906	6-500-450-01	LED CL-195SR-CD-T (+ (VOLUME))		R916	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
				R917	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
				R918	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
				R919	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
				R920	1-218-867-11	METAL CHIP 6.8K 5% 1/10W	
				R921	1-216-833-11	METAL CHIP 10K 5% 1/10W	
				R922	1-216-835-11	METAL CHIP 15K 5% 1/10W	
				R924	1-216-805-11	METAL CHIP 47 5% 1/10W	

KEY

MAIN

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
R925	1-216-807-11	METAL CHIP	68	5%	1/10W		S914	1-771-884-31	SWITCH, TACTILE (SCRL)				
R926	1-216-805-11	METAL CHIP	47	5%	1/10W		S915	1-771-884-31	SWITCH, TACTILE (SENS)				
R931	1-216-809-11	METAL CHIP	100	5%	1/10W		S916	1-771-884-31	SWITCH, TACTILE (6)				
R932	1-216-809-11	METAL CHIP	100	5%	1/10W		S917	1-771-884-31	SWITCH, TACTILE (5)				
R933	1-216-809-11	METAL CHIP	100	5%	1/10W		S918	1-771-884-31	SWITCH, TACTILE (4/SHUF)				
R937	1-216-811-11	METAL CHIP	150	5%	1/10W		S919	1-771-884-31	SWITCH, TACTILE (3/REP)				
R938	1-216-803-11	METAL CHIP	33	5%	1/10W		S920	1-771-884-31	SWITCH, TACTILE (2/ALBUM +)				
R941	1-216-811-11	METAL CHIP	150	5%	1/10W		S921	1-771-884-31	SWITCH, TACTILE (1/ALBUM -)				
R942	1-216-803-11	METAL CHIP	33	5%	1/10W		S922	1-771-884-31	SWITCH, TACTILE (DSPL)				
R945	1-216-811-11	METAL CHIP	150	5%	1/10W		S961	1-529-566-61	SWITCH, PUSH (1 KEY) (OPEN)				

R946	1-216-803-11	METAL CHIP	33	5%	1/10W			A-3283-513-A	MAIN BOARD, COMPLETE				
R949	1-216-809-11	METAL CHIP	100	5%	1/10W				*****				
R950	1-216-809-11	METAL CHIP	100	5%	1/10W								
R951	1-216-809-11	METAL CHIP	100	5%	1/10W								
R955	1-216-813-11	METAL CHIP	220	5%	1/10W			7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT				
								7-685-793-09	SCREW +PTT 2.6X8 (S)				
R956	1-216-811-11	METAL CHIP	150	5%	1/10W			7-685-795-09	SCREW +PTT 2.6X12 (S)				
R957	1-216-817-11	METAL CHIP	470	5%	1/10W								
R961	1-216-815-11	METAL CHIP	330	5%	1/10W				< CAPACITOR >				
R962	1-216-809-11	METAL CHIP	100	5%	1/10W								
R963	1-216-809-11	METAL CHIP	100	5%	1/10W		C2	1-126-947-11	ELECT	47uF	20%	16V	
							C3	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
R971	1-216-817-11	METAL CHIP	470	5%	1/10W		C5	1-126-947-11	ELECT	47uF	20%	16V	
R972	1-216-817-11	METAL CHIP	470	5%	1/10W		C6	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
R974	1-216-817-11	METAL CHIP	470	5%	1/10W		C7	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
R975	1-216-845-11	METAL CHIP	100K	5%	1/10W								
R977	1-216-864-11	METAL CHIP	0	5%	1/10W		C8	1-115-412-11	CERAMIC CHIP	680PF	5%	25V	
							C301	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V	
R978	1-216-817-11	METAL CHIP	470	5%	1/10W		C303	1-128-551-11	ELECT	22uF	20%	25V	
R981	1-216-817-11	METAL CHIP	470	5%	1/10W		C304	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V	
R982	1-216-817-11	METAL CHIP	470	5%	1/10W		C305	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	
R983	1-216-817-11	METAL CHIP	470	5%	1/10W								
R984	1-216-817-11	METAL CHIP	470	5%	1/10W		C306	1-126-964-11	ELECT	10uF	20%	50V	
							C308	1-126-964-11	ELECT	10uF	20%	50V	
R985	1-216-817-11	METAL CHIP	470	5%	1/10W		C309	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V	
R986	1-216-817-11	METAL CHIP	470	5%	1/10W		C310	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	
R987	1-216-811-11	METAL CHIP	150	5%	1/10W		C312	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
R988	1-216-811-11	METAL CHIP	150	5%	1/10W								
R989	1-216-811-11	METAL CHIP	150	5%	1/10W		C314	1-126-964-11	ELECT	10uF	20%	50V	
							C316	1-126-964-11	ELECT	10uF	20%	50V	
R991	1-216-864-11	METAL CHIP	0	5%	1/10W		C317	1-126-961-11	ELECT	2.2uF	20%	50V	
R992	1-216-840-11	METAL CHIP	39K	5%	1/10W		C318	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
R993	1-216-857-11	METAL CHIP	1M	5%	1/10W		C319	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V	
R994	1-216-821-11	METAL CHIP	1K	5%	1/10W								
R995	1-216-821-11	METAL CHIP	1K	5%	1/10W		C320	1-126-947-11	ELECT	47uF	20%	16V	
							C321	1-126-964-11	ELECT	10uF	20%	50V	
R996	1-216-821-11	METAL CHIP	1K	5%	1/10W		C351	1-128-551-11	ELECT	22uF	20%	25V	
R997	1-216-803-11	METAL CHIP	33	5%	1/10W		C352	1-128-551-11	ELECT	22uF	20%	25V	
R998	1-216-864-11	METAL CHIP	0	5%	1/10W		C353	1-128-551-11	ELECT	22uF	20%	25V	
< SWITCH >													
S900	1-786-653-11	SWITCH, TACTILE (EJECT (R))											
S901	1-786-653-11	SWITCH, TACTILE (EJECT (L))											
S902	1-771-884-31	SWITCH, TACTILE (OFF)											
S903	1-771-884-31	SWITCH, TACTILE (SOURCE)											
S904	1-771-884-31	SWITCH, TACTILE (- (VOLUME))											
S905	1-771-884-31	SWITCH, TACTILE (ATT)											
S906	1-771-884-31	SWITCH, TACTILE (+ (VOLUME))											
S907	1-771-884-31	SWITCH, TACTILE (MODE)											
S908	1-771-884-31	SWITCH, TACTILE (SEL)											
S910	1-771-884-31	SWITCH, TACTILE (EQ3)											
S911	1-771-884-31	SWITCH, TACTILE (SEEK +/▶▶▶/▶▶▶)											
S912	1-771-884-31	SWITCH, TACTILE (SEEK -/◀◀◀/◀◀◀)											
S913	1-771-884-31	SWITCH, TACTILE (BTM)											

MAIN

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
C471	1-126-964-11	ELECT	10uF	20%	50V		D311	8-719-200-82	DIODE	11ES2			
C481	1-126-964-11	ELECT	10uF	20%	50V		D312	8-719-200-82	DIODE	11ES2			
C491	1-126-947-11	ELECT	47uF	20%	16V		D351	8-719-041-79	DIODE	MA721WA-TX			
C492	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		D491	8-719-404-50	DIODE	MA111-TX			
C500	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		D492	8-719-036-94	DIODE	RD5.6SB-T1			
C501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		D493	8-719-040-04	DIODE	MA721WK-(TX)			
C502	1-104-665-11	ELECT	100uF	20%	10V		D501	8-719-820-05	DIODE	1SS181			
C504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		D601	8-719-040-04	DIODE	MA721WK-(TX)			
C505	1-125-710-11	DOUBLE LAYERS	0.1F		5.5V		D602	8-719-056-93	DIODE	UDZ-TE-17-18B			
C506	1-126-924-11	ELECT	330uF	20%	10V		D603	8-719-056-83	DIODE	UDZ-TE-17-6.8B			
C510	1-162-916-11	CERAMIC CHIP	12PF	5%	50V		D701	8-719-056-93	DIODE	UDZ-TE-17-18B			
C511	1-162-917-11	CERAMIC CHIP	15PF	5%	50V		D702	8-719-056-93	DIODE	UDZ-TE-17-18B			
C512	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		D703	8-719-056-93	DIODE	UDZ-TE-17-18B			
C513	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		D704	8-719-049-38	DIODE	1N5404TU			
C514	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		< IC >						
C515	1-216-864-11	METAL CHIP	0	5%	1/10W								
C516	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		IC300	6-705-360-01	IC	TDA8588BJ/N2			
C517	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		IC400	6-705-372-01	IC	BD3808FS-FE2			
C518	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		IC500	6-804-050-01	IC	MN101E01KDK			
C519	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		IC502	8-759-659-13	IC	PST3428UL			
C520	1-216-864-11	METAL CHIP	0	5%	1/10W		< JACK >						
C521	1-126-964-11	ELECT	10uF	20%	50V								
C522	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V		J1	1-815-185-13	JACK (ANTENNA)				
C701	1-131-868-81	ELECT	3300uF	20%	16V		J400	1-774-698-11	JACK, PIN 2P (AUDIO OUT REAR)				
C702	1-126-961-11	ELECT	2.2uF	20%	50V		J561	1-566-822-41	JACK (REMOTE IN)				
C703	1-163-038-11	CERAMIC CHIP	0.1uF		25V		< JUMPER RESISTOR >						
C800	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V								
C801	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V		JC1	1-216-296-11	SHORT CHIP	0			
C802	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V		JC300	1-216-296-11	SHORT CHIP	0			
C803	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V		JC301	1-216-296-11	SHORT CHIP	0			
							JC302	1-216-296-11	SHORT CHIP	0			
C995	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V		JC303	1-216-296-11	SHORT CHIP	0			
C996	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V		JC304	1-216-864-11	METAL CHIP	0	5%	1/10W	
< CONNECTOR >							JC350	1-216-296-11	SHORT CHIP	0			
CN102	1-794-311-21	PLUG, CONNECTOR 12P					JC400	1-216-864-11	METAL CHIP	0	5%	1/10W	
CN350	1-817-536-11	CONNECTOR, BOARD TO BOARD 28P					JC401	1-216-296-11	SHORT CHIP	0			
CN700	1-774-701-21	PIN, CONNECTOR 16P					JC402	1-216-864-11	METAL CHIP	0	5%	1/10W	
< DIODE >							JC403	1-216-864-11	METAL CHIP	0	5%	1/10W	
D2	8-719-036-94	DIODE	RD5.6SB-T1				JC423	1-216-864-11	METAL CHIP	0	5%	1/10W	
D101	8-719-056-83	DIODE	UDZ-TE-17-6.8B				JC501	1-216-864-11	METAL CHIP	0	5%	1/10W	
D102	8-719-056-83	DIODE	UDZ-TE-17-6.8B				JC502	1-216-296-11	SHORT CHIP	0			
D103	8-719-056-83	DIODE	UDZ-TE-17-6.8B				JC503	1-216-864-11	METAL CHIP	0	5%	1/10W	
D104	8-719-056-83	DIODE	UDZ-TE-17-6.8B				JC504	1-216-296-11	SHORT CHIP	0			
							JC505	1-216-296-11	SHORT CHIP	0			
D105	8-719-056-83	DIODE	UDZ-TE-17-6.8B				JC506	1-216-296-11	SHORT CHIP	0			
D106	8-719-056-83	DIODE	UDZ-TE-17-6.8B				JC508	1-216-296-11	SHORT CHIP	0			
D107	8-719-056-83	DIODE	UDZ-TE-17-6.8B				JC509	1-216-864-11	METAL CHIP	0	5%	1/10W	
D108	8-719-056-83	DIODE	UDZ-TE-17-6.8B				JC511	1-216-864-11	METAL CHIP	0	5%	1/10W	
D301	8-719-200-82	DIODE	11ES2				JC601	1-216-864-11	METAL CHIP	0	5%	1/10W	
D302	8-719-200-82	DIODE	11ES2				JC701	1-216-864-11	METAL CHIP	0	5%	1/10W	
D303	8-719-200-82	DIODE	11ES2				JC702	1-216-296-11	SHORT CHIP	0			
D304	8-719-200-82	DIODE	11ES2				JC703	1-216-296-11	SHORT CHIP	0			
D305	8-719-200-82	DIODE	11ES2				< COIL >						
D306	8-719-200-82	DIODE	11ES2				L1	1-469-844-11	INDUCTOR	2.2uH			
D307	8-719-200-82	DIODE	11ES2				L2	1-469-844-11	INDUCTOR	2.2uH			
D308	8-719-200-82	DIODE	11ES2				L351	1-500-245-11	INDUCTOR, FERRITE BEAD				
D309	8-719-200-82	DIODE	11ES2				L352	1-500-245-11	INDUCTOR, FERRITE BEAD				
D310	8-719-200-82	DIODE	11ES2				L353	1-469-876-11	INDUCTOR, FERRITE BEAD				

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
L354	1-500-245-11	INDUCTOR, FERRITE BEAD				R441	1-216-809-11	METAL CHIP	100	5%	1/10W
L355	1-469-876-11	INDUCTOR, FERRITE BEAD				R442	1-216-841-11	METAL CHIP	47K	5%	1/10W
L356	1-500-245-11	INDUCTOR, FERRITE BEAD				R443	1-216-864-11	METAL CHIP	0	5%	1/10W
L357	1-469-876-11	INDUCTOR, FERRITE BEAD				R450	1-216-809-11	METAL CHIP	100	5%	1/10W
L358	1-469-876-11	INDUCTOR, FERRITE BEAD				R451	1-216-809-11	METAL CHIP	100	5%	1/10W
L359	1-216-295-11	SHORT CHIP	0			R452	1-216-841-11	METAL CHIP	47K	5%	1/10W
L700	1-456-617-11	COIL, CHOKE	250uH			R453	1-216-864-11	METAL CHIP	0	5%	1/10W
< TRANSISTOR >						R470	1-216-809-11	METAL CHIP	100	5%	1/10W
Q3	8-729-920-85	TRANSISTOR	2SD1664-QR			R471	1-216-809-11	METAL CHIP	100	5%	1/10W
Q420	6-550-752-01	TRANSISTOR	DTC614TKT146			R472	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q430	6-550-752-01	TRANSISTOR	DTC614TKT146			R480	1-216-809-11	METAL CHIP	100	5%	1/10W
Q440	6-550-752-01	TRANSISTOR	DTC614TKT146			R481	1-216-809-11	METAL CHIP	100	5%	1/10W
Q450	6-550-752-01	TRANSISTOR	DTC614TKT146			R482	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q470	6-550-752-01	TRANSISTOR	DTC614TKT146			R491	1-216-805-11	METAL CHIP	47	5%	1/10W
Q480	6-550-752-01	TRANSISTOR	DTC614TKT146			R492	1-216-864-11	METAL CHIP	0	5%	1/10W
Q491	8-729-424-08	TRANSISTOR	UN2111			R505	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q492	8-729-421-19	TRANSISTOR	UN2213			R506	1-216-813-11	METAL CHIP	220	5%	1/10W
Q501	8-729-424-08	TRANSISTOR	UN2111			R507	1-216-864-11	METAL CHIP	0	5%	1/10W
Q605	8-729-421-22	TRANSISTOR	UN2211			R508	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q606	8-729-421-19	TRANSISTOR	UN2213			R509	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q607	8-729-010-25	TRANSISTOR	MSD601-RT1			R510	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q701	8-729-010-25	TRANSISTOR	MSD601-RT1			R511	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q702	8-729-010-25	TRANSISTOR	MSD601-RT1			R512	1-216-845-11	METAL CHIP	100K	5%	1/10W
< RESISTOR >						R513	1-216-845-11	METAL CHIP	100K	5%	1/10W
R4	1-216-839-11	METAL CHIP	33K	5%	1/10W	R514	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5	1-216-843-11	METAL CHIP	68K	5%	1/10W	R517	1-216-845-11	METAL CHIP	100K	5%	1/10W
R6	1-216-809-11	METAL CHIP	100	5%	1/10W	R520	1-216-845-11	METAL CHIP	100K	5%	1/10W
R7	1-216-809-11	METAL CHIP	100	5%	1/10W	R523	1-216-845-11	METAL CHIP	100K	5%	1/10W
R9	1-216-864-11	METAL CHIP	0	5%	1/10W	R524	1-216-833-11	METAL CHIP	10K	5%	1/10W
R10	1-216-821-11	METAL CHIP	1K	5%	1/10W	R526	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R101	1-216-809-11	METAL CHIP	100	5%	1/10W	R527	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R102	1-216-809-11	METAL CHIP	100	5%	1/10W	R528	1-216-845-11	METAL CHIP	100K	5%	1/10W
R103	1-216-809-11	METAL CHIP	100	5%	1/10W	R529	1-216-845-11	METAL CHIP	100K	5%	1/10W
R104	1-216-809-11	METAL CHIP	100	5%	1/10W	R530	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R105	1-216-809-11	METAL CHIP	100	5%	1/10W	R532	1-216-845-11	METAL CHIP	100K	5%	1/10W
R106	1-216-809-11	METAL CHIP	100	5%	1/10W	R533	1-216-845-11	METAL CHIP	100K	5%	1/10W
R107	1-216-809-11	METAL CHIP	100	5%	1/10W	R535	1-216-833-11	METAL CHIP	10K	5%	1/10W
R108	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R603	1-216-821-11	METAL CHIP	1K	5%	1/10W
R109	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R604	1-216-821-11	METAL CHIP	1K	5%	1/10W
R112	1-216-864-11	METAL CHIP	0	5%	1/10W	R615	1-216-849-11	METAL CHIP	220K	5%	1/10W
R115	1-216-864-11	METAL CHIP	0	5%	1/10W	R616	1-216-841-11	METAL CHIP	47K	5%	1/10W
R301	1-216-809-11	METAL CHIP	100	5%	1/10W	R701	1-216-821-11	METAL CHIP	1K	5%	1/10W
R302	1-216-841-11	METAL CHIP	47K	5%	1/10W	R702	1-216-841-11	METAL CHIP	47K	5%	1/10W
R351	1-216-845-11	METAL CHIP	100K	5%	1/10W	R703	1-216-833-11	METAL CHIP	10K	5%	1/10W
R370	1-216-809-11	METAL CHIP	100	5%	1/10W	R704	1-216-833-11	METAL CHIP	10K	5%	1/10W
R371	1-216-809-11	METAL CHIP	100	5%	1/10W	R705	1-249-425-11	CARBON	4.7K	5%	1/4W
R404	1-218-881-11	METAL CHIP	27K	0.5%	1/10W	R706	1-216-841-11	METAL CHIP	47K	5%	1/10W
R420	1-216-809-11	METAL CHIP	100	5%	1/10W	R707	1-216-841-11	METAL CHIP	47K	5%	1/10W
R421	1-216-809-11	METAL CHIP	100	5%	1/10W	R708	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R422	1-216-841-11	METAL CHIP	47K	5%	1/10W	R709	1-216-821-11	METAL CHIP	1K	5%	1/10W
R423	1-216-864-11	METAL CHIP	0	5%	1/10W	< SWITCH >					
R430	1-216-809-11	METAL CHIP	100	5%	1/10W	S103	1-692-431-21	SWITCH, TACTILE (RESET)			
R431	1-216-809-11	METAL CHIP	100	5%	1/10W	< TUNER >					
R432	1-216-841-11	METAL CHIP	47K	5%	1/10W	TU1	A-3220-961-A	TUNER UNIT (TUX-032//Q3)			
R433	1-216-864-11	METAL CHIP	0	5%	1/10W						
R440	1-216-809-11	METAL CHIP	100	5%	1/10W						

CDX-R3300EE

MAIN	SENSOR	SERVO
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Ref. No.	Part No.	Description	Remark
< VIBRATOR >			
X500	1-813-160-11	VIBRATOR, CERAMIC (27.648MHz)	
X501	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-3283-357-A	SERVO BOARD, COMPLETE		

< CAPACITOR >			
C1	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C2	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C3	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C4	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C5	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C6	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C7	1-162-962-11	CERAMIC CHIP	470PF 10% 50V
C8	1-162-962-11	CERAMIC CHIP	470PF 10% 50V
C10	1-104-609-11	ELECT CHIP	100uF 20% 4V
C11	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C13	1-162-965-11	CERAMIC CHIP	0.0015uF 10% 50V
C14	1-162-965-11	CERAMIC CHIP	0.0015uF 10% 50V
C16	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C18	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V
C19	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V
C21	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C22	1-162-962-11	CERAMIC CHIP	470PF 10% 50V
C23	1-162-967-11	CERAMIC CHIP	0.0033uF 10% 50V
C24	1-162-962-11	CERAMIC CHIP	470PF 10% 50V
C25	1-162-967-11	CERAMIC CHIP	0.0033uF 10% 50V
C26	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C27	1-126-208-21	ELECT CHIP	47uF 20% 4V
C28	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C29	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C30	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C32	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C33	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C34	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C35	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C36	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C37	1-164-677-11	CERAMIC CHIP	0.033uF 10% 16V
C38	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C39	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C40	1-162-969-11	CERAMIC CHIP	0.0068uF 10% 25V
C41	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C42	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C43	1-125-837-11	CERAMIC CHIP	1uF 10% 6.3V
C44	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C45	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C46	1-162-965-11	CERAMIC CHIP	0.0015uF 10% 50V
C47	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V

Ref. No.	Part No.	Description	Remark
C48	1-104-609-11	ELECT CHIP 100uF	20% 4V
C49	1-125-837-11	CERAMIC CHIP 1uF	10% 6.3V
C50	1-125-837-11	CERAMIC CHIP 1uF	10% 6.3V
C51	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C52	1-100-381-11	ELECT CHIP 10uF	20% 16V
C53	1-100-381-11	ELECT CHIP 10uF	20% 16V
C54	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C55	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C56	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C57	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C58	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C59	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C60	1-100-381-11	ELECT CHIP 10uF	20% 16V
C63	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C64	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C65	1-126-208-21	ELECT CHIP 47uF	20% 4V
C66	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C67	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C74	1-126-208-21	ELECT CHIP 47uF	20% 4V
C75	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C77	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C79	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C81	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C83	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C85	1-125-837-11	CERAMIC CHIP 1uF	10% 6.3V
C86	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C91	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C92	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C107	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C109	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C110	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C115	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
< CONNECTOR >			
CN1	1-794-153-21	CONNECTOR, FPC (ZIF) 16P	
CN2	1-817-275-21	CONNECTOR, BOARD TO BOARD 28P	
< JUMPER RESISTOR >			
FB1	1-216-864-11	METAL CHIP 0	5% 1/10W
FB2	1-216-864-11	METAL CHIP 0	5% 1/10W
FB5	1-216-864-11	METAL CHIP 0	5% 1/10W
< IC >			
IC1	6-705-366-01	IC LA6560-TE-L-E	
IC3	8-753-216-86	IC CXD3059BR	
IC4	6-804-028-01	IC MB90487PFV-G-105-BNDE1	
IC7	6-705-364-01	IC R1114N151D-TR-FA	
IC8	6-705-365-01	IC TC94A34FG-002	
< TRANSISTOR >			
Q1	8-729-904-87	TRANSISTOR 2SB1197K-R	
Q2	8-729-928-90	TRANSISTOR DTC114EE	
Q3	8-729-904-87	TRANSISTOR 2SB1197K-R	
Q5	8-729-904-87	TRANSISTOR 2SB1197K-R	
Q6	8-729-928-90	TRANSISTOR DTC114EE	
< RESISTOR >			
R1	1-218-941-81	RES-CHIP 100	5% 1/16W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R2	1-218-971-11	RES-CHIP	33K	5%	1/16W	R71	1-218-941-81	RES-CHIP	100	5%	1/16W
R3	1-218-971-11	RES-CHIP	33K	5%	1/16W	R72	1-218-990-11	SHORT CHIP	0		
R4	1-218-965-11	RES-CHIP	10K	5%	1/16W	R73	1-218-941-81	RES-CHIP	100	5%	1/16W
R5	1-218-965-11	RES-CHIP	10K	5%	1/16W	R74	1-218-941-81	RES-CHIP	100	5%	1/16W
R6	1-218-965-11	RES-CHIP	10K	5%	1/16W	R76	1-218-941-81	RES-CHIP	100	5%	1/16W
R7	1-208-635-11	RES-CHIP	10	5%	1/16W	R77	1-218-990-11	SHORT CHIP	0		
R8	1-218-971-11	RES-CHIP	33K	5%	1/16W	R78	1-218-941-81	RES-CHIP	100	5%	1/16W
R9	1-218-971-11	RES-CHIP	33K	5%	1/16W	R79	1-218-941-81	RES-CHIP	100	5%	1/16W
R10	1-218-965-11	RES-CHIP	10K	5%	1/16W	R80	1-218-977-11	RES-CHIP	100K	5%	1/16W
R11	1-218-965-11	RES-CHIP	10K	5%	1/16W	R81	1-218-941-81	RES-CHIP	100	5%	1/16W
R12	1-208-635-11	RES-CHIP	10	5%	1/16W	R85	1-218-973-11	RES-CHIP	47K	5%	1/16W
R13	1-218-965-11	RES-CHIP	10K	5%	1/16W	R86	1-218-973-11	RES-CHIP	47K	5%	1/16W
R14	1-218-990-11	SHORT CHIP	0			R87	1-218-973-11	RES-CHIP	47K	5%	1/16W
R15	1-218-990-11	SHORT CHIP	0			R91	1-220-200-81	RES-CHIP	30K	5%	1/16W
R16	1-218-990-11	SHORT CHIP	0			R92	1-218-971-11	RES-CHIP	33K	5%	1/16W
R17	1-218-965-11	RES-CHIP	10K	5%	1/16W	R97	1-218-941-81	RES-CHIP	100	5%	1/16W
R18	1-218-965-11	RES-CHIP	10K	5%	1/16W	R98	1-218-941-81	RES-CHIP	100	5%	1/16W
R19	1-218-969-11	RES-CHIP	22K	5%	1/16W	R99	1-218-965-11	RES-CHIP	10K	5%	1/16W
R20	1-218-969-11	RES-CHIP	22K	5%	1/16W	R101	1-218-969-11	RES-CHIP	22K	5%	1/16W
R21	1-218-990-11	SHORT CHIP	0			R106	1-218-969-11	RES-CHIP	22K	5%	1/16W
R22	1-218-967-11	RES-CHIP	15K	5%	1/16W	R107	1-218-965-11	RES-CHIP	10K	5%	1/16W
R23	1-218-967-11	RES-CHIP	15K	5%	1/16W	R108	1-218-941-81	RES-CHIP	100	5%	1/16W
R24	1-218-953-11	RES-CHIP	1K	5%	1/16W	R109	1-218-953-11	RES-CHIP	1K	5%	1/16W
R25	1-218-953-11	RES-CHIP	1K	5%	1/16W	R110	1-218-945-11	RES-CHIP	220	5%	1/16W
R26	1-218-981-11	RES-CHIP	220K	5%	1/16W	R111	1-218-990-11	SHORT CHIP	0		
R27	1-218-965-11	RES-CHIP	10K	5%	1/16W	R114	1-218-941-81	RES-CHIP	100	5%	1/16W
R28	1-218-990-11	SHORT CHIP	0			R115	1-218-941-81	RES-CHIP	100	5%	1/16W
R29	1-218-977-11	RES-CHIP	100K	5%	1/16W	R116	1-218-941-81	RES-CHIP	100	5%	1/16W
R37	1-218-947-11	RES-CHIP	330	5%	1/16W	R117	1-218-990-11	SHORT CHIP	0		
R38	1-218-967-11	RES-CHIP	15K	5%	1/16W	R119	1-218-941-81	RES-CHIP	100	5%	1/16W
R39	1-218-941-81	RES-CHIP	100	5%	1/16W	R122	1-218-965-11	RES-CHIP	10K	5%	1/16W
R40	1-218-990-11	SHORT CHIP	0			R123	1-218-990-11	SHORT CHIP	0		
R41	1-218-985-11	RES-CHIP	470K	5%	1/16W	R124	1-216-864-11	METAL CHIP	0	5%	1/10W
R42	1-218-965-11	RES-CHIP	10K	5%	1/16W	R126	1-218-965-11	RES-CHIP	10K	5%	1/16W
R43	1-218-977-11	RES-CHIP	100K	5%	1/16W	R127	1-218-965-11	RES-CHIP	10K	5%	1/16W
R44	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	R128	1-218-965-11	RES-CHIP	10K	5%	1/16W
R45	1-218-971-11	RES-CHIP	33K	5%	1/16W	R129	1-218-965-11	RES-CHIP	10K	5%	1/16W
R46	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	R133	1-216-864-11	METAL CHIP	0	5%	1/10W
R47	1-218-977-11	RES-CHIP	100K	5%	1/16W	R136	1-218-977-11	RES-CHIP	100K	5%	1/16W
R48	1-218-941-81	RES-CHIP	100	5%	1/16W	R139	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R49	1-218-953-11	RES-CHIP	1K	5%	1/16W	R140	1-218-941-81	RES-CHIP	100	5%	1/16W
R50	1-218-941-81	RES-CHIP	100	5%	1/16W	R141	1-218-941-81	RES-CHIP	100	5%	1/16W
R52	1-218-941-81	RES-CHIP	100	5%	1/16W	R142	1-218-941-81	RES-CHIP	100	5%	1/16W
R53	1-218-959-11	RES-CHIP	3.3K	5%	1/16W	R143	1-218-941-81	RES-CHIP	100	5%	1/16W
R54	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R144	1-218-965-11	RES-CHIP	10K	5%	1/16W
R55	1-218-953-11	RES-CHIP	1K	5%	1/16W	R145	1-218-977-11	RES-CHIP	100K	5%	1/16W
R56	1-218-973-11	RES-CHIP	47K	5%	1/16W	R146	1-218-941-81	RES-CHIP	100	5%	1/16W
R57	1-218-941-81	RES-CHIP	100	5%	1/16W	R147	1-218-941-81	RES-CHIP	100	5%	1/16W
R59	1-218-941-81	RES-CHIP	100	5%	1/16W	R148	1-218-941-81	RES-CHIP	100	5%	1/16W
R60	1-218-990-11	SHORT CHIP	0			R149	1-218-941-81	RES-CHIP	100	5%	1/16W
R61	1-218-985-11	RES-CHIP	470K	5%	1/16W	< SWITCH >					
R62	1-218-965-11	RES-CHIP	10K	5%	1/16W	SW1	1-529-565-61	SWITCH, PUSH (1 KEY) (DOWN)			
R64	1-218-941-81	RES-CHIP	100	5%	1/16W	< VIBRATOR >					
R65	1-218-941-81	RES-CHIP	100	5%	1/16W	X1	1-795-561-21	VIBRATOR, CERAMIC (16.9344MHz)			
R67	1-218-941-81	RES-CHIP	100	5%	1/16W	X2	1-795-822-21	VIBRATOR, CERAMIC (18.43MHz)			
R68	1-218-990-11	SHORT CHIP	0			*****					
R69	1-218-973-11	RES-CHIP	47K	5%	1/16W						
R70	1-218-945-11	RES-CHIP	220	5%	1/16W						

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	

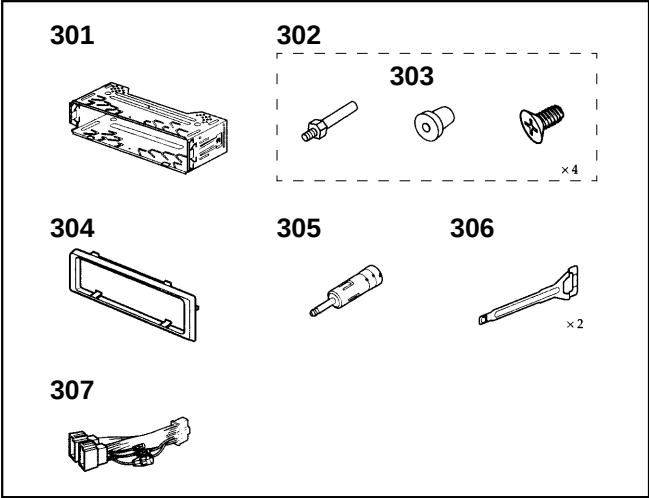
7	1-776-527-61	CORD (WITH CONNECTOR) (ISO) (POWER)	
△ 153	8-820-207-02	OPTICAL PICK-UP (KSS1000E/K1RP)	
154	A-3372-448-A	CHASSIS (OP) SUB ASSY (including M901)	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
M902	A-3372-447-A	MOTOR ASSY, SL (SLED)	
M903	A-3372-443-A	MOTOR ASSY, LE (LOADING)	
SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)	

ACCESSORIES

3-263-513-11	MANUAL, INSTRUCTION (ENGLISH, RUSSIAN)
3-263-514-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, RUSSIAN)
X-3383-264-2	CASE ASSY (for FRONT PANEL)

PARTS FOR INSTALLATION AND CONNECTIONS

301	X-3382-647-1	FRAME ASSY, FITTING
302	X-3381-154-1	SCREW ASSY (BS4), FITTING
303	3-349-410-11	BUSHING
304	3-261-542-01	COLLAR
305	1-465-459-21	ADAPTOR, ANTENNA
306	3-246-471-01	KEY (FRAME)
307	1-776-527-61	CORD (WITH CONNECTOR) (ISO) (POWER)



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

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