

CDX-M9900/M9905X

SERVICE MANUAL

Ver 1.0 2004. 02

US Model
Canadian Model

CDX-M9900/M9905X

AEP Model

UK Model

E Model

CDX-M9900



Photo: CDX-M9900

- The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	CDX-F5500/F5500X/FW570
CD Drive Mechanism Type	MG-611MA-186//K
Optical Pick-up Name	KSS1000E

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US 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.

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 87.5 – 107.9 MHz (US, Canadian Model)
87.5 – 108.0 MHz (AEP, UK, E Model)
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 (US, Canadian Model)

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

MW/LW (AEP, UK, E Model)

Tuning range MW : 531 – 1,602 kHz
LW : 153 – 279 kHz
Aerial terminal External aerial connector
Intermediate frequency 10.7 MHz/450 kHz
Sensitivity MW : 30 μ V
LW : 40 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)

General

Outputs Audio outputs (front/rear)
Subwoofer output (mono)
Power antenna relay control terminal
Power amplifier control terminal
Inputs Telephone ATT control terminal
Illumination control terminal
Parking brake input terminal
(US, Canadian, AEP, UK Model)
BUS control input terminal
BUS audio input/AUX IN terminal
Antenna input terminal
Video input terminal

– Continued on next page –

FM/AM COMPACT DISC PLAYER

US, Canadian Model

FM/MW/LW COMPACT DISC PLAYER

AEP, UK, E Model

9-877-633-01

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Sony Corporation

e Vehicle Company

Published by Sony Engineering Corporation

SONY®

CDX-M9900/M9905X

Tone controls	Bass: ± 8 dB at 100 Hz Treble: ± 8 dB at 10 kHz
Loudness	+8 dB at 100 Hz +2 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 187 mm (7 1/8 × 2 × 7 3/8 in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 162 mm (7 1/4 × 2 1/8 × 6 1/2 in.) (w/h/d)
Mass	Approx. 1.6 kg (3 lb. 8 oz.)
Supplied accessories	Card remote commander RM-X145A (1) (US, Canadian Model) Card remote commander RM-X144 (1) (AEP, UK, E Model) Parts for installation and connections (1 set) Front panel cover (1)

Note

This unit cannot be connected to a digital preamplifier or an equalizer which is Sony BUS system compatible.

Design and specifications are subject to change without notice.

SERVICE NOTES

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

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

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

NOTES ON LASER DIODE EMISSION CHECK

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

Notes on Chip Component Replacement

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

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)

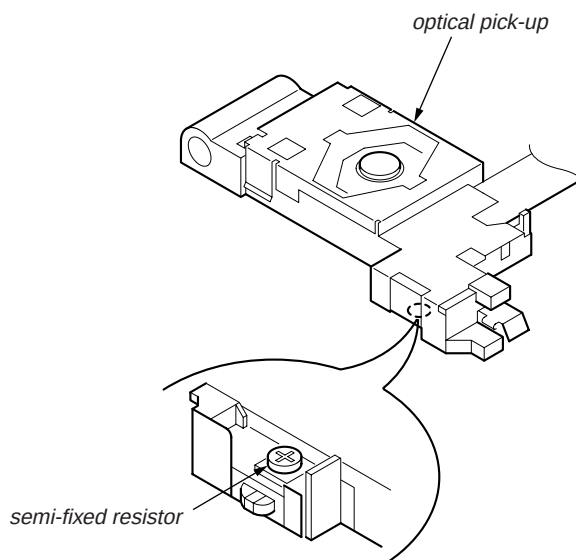
- US, Canadian model

CAUTION

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

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

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



- AEP, UK, E model

**CLASS 1
LASER PRODUCT**

This label is located on the bottom of the chassis.

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-Rs (recordable CDs)/CD-RWs (rewritable CDs)

This unit can play the following discs:

Type of discs	Label on the disc
Audio CD	
MP3 files	

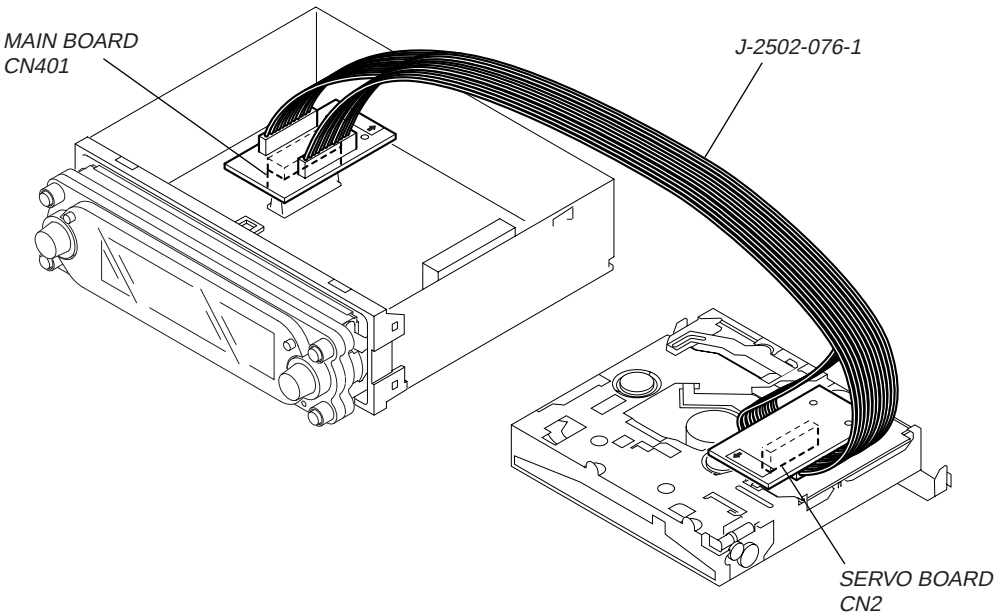
- Some CD-Rs/CD-RWs (depending on the equipment used for its recording or the condition of the disc) may not play on this unit.
- You cannot play a CD-R/CD-RW that is not finalized*.
- You can play MP3 files recorded on CD-ROMs, CD-Rs, and CD-RWs.
- A CD-R/CD-RW to which a session can be added can be played.

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

EXTENSION CABLE AND SERVICE POSITION

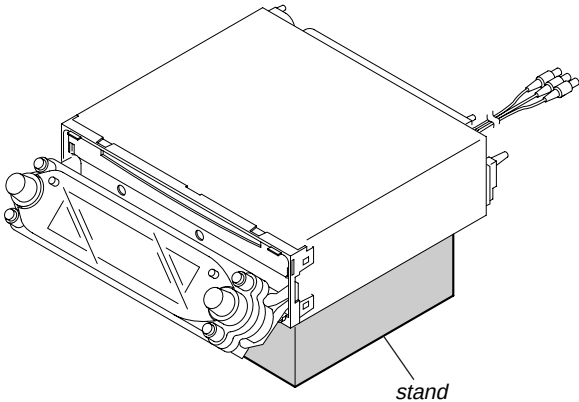
When repairing or servicing this set, connect the jig (extension cable) as shown below.

- Connect the MAIN board (CN401) and the SERVO board (CN2) with the extension cable (Part No. J-2502-062-1).



NOTE FOR THE OPENING OF THE FRONT PANEL

In this set, the front panel is lowered to below the bottom face when it is opened.
When servicing the set, place it on a stand having a height of about 2 cm.



FORCED FRONT PANEL OPEN/CLOSE

The front panel is forced to OPEN/CLOSE at the timing that the power (ACC) is turned off.
If the  button for the front panel is not effective, the following method is used:

With the front panel open: The front panel is closed when ACC is switched from ON to OFF edge.

With the front panel closed: The front panel is opened when ACC is switched from ON to OFF edge.

NOTE FOR REPLACEMENT OF THE DIGITAL BOARD

When repairing, the complete DIGITAL board should be replaced since any parts in the DIGITAL board cannot be repaired.

● 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.)



: 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.

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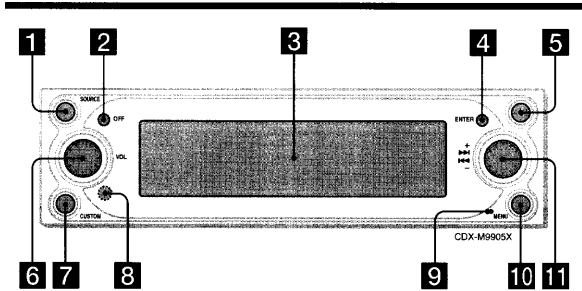
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SECTION 1
GENERAL

This section is extracted
from instruction manual.



The buttons on the unit share the same functions as those on the card remote commander.

- 1 SOURCE (Power on/Radio/CD/MD/AUX*) button**
To select the source.
- 2 OFF (Stop/Power off) button**
To turn off the unit/stop playback or radio reception.
- 3 Display window**
- 4 ENTER button**
CD/MD/Radio:
To change the functions of the R dial.
Menu:
To decide an item/apply a setting of the menu item.
- 5 (Open/Close) button**
To open/close the front panel/To eject a disc when loaded.
- 6 L (Left) dial**
To adjust the volume.
- 7 CUSTOM button**
CD/MD/Radio/AUX:
To perform the function assigned.
Menu:
To return to a previous display.
- 8 Receptor**
To receive signals from the card remote commander or wireless rotary commander.
- 9 Reset button**
To reset the unit.

- 10 MENU button**
To display the main menu for settings and adjustments.
- 11 R (Right) dial**
CD/MD/Radio:
To select the desired radio station, track, album*2 or disc*3.
Menu:
To select an item.

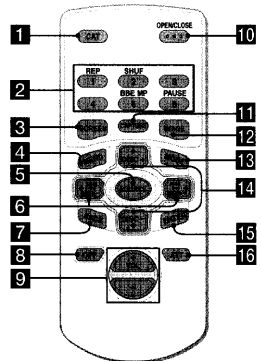
Note on using the L/R dials
Before using the L/R dials, push in and release them first. Push in again when storing after use.

*1 Available only when an optional Sony portable device is connected to AUX IN terminal of the unit.
When you connect a Sony portable device and CD/MD unit(s) at the same time, use the AUX IN selector.
*2 Available only when an MP3 file is played.
*3 When an optional CD/MD unit is connected.

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 **OFF** on the unit until the display disappears.
Otherwise, the display does not turn off and this causes battery drain.

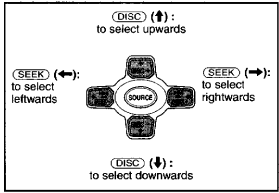
Location of controls

Card remote commander RM-X145A



- 1 CAT*1 button**
- 2 Number buttons**
Radio:
To store/receive stations.
CD/MD:
To change playback mode.
①: REP
②: SHUF
③: PAUSE*2
Sound:
④: BBE MP*2
- 3 SCREEN button**
To select the display mode.
- 4 MENU button**
To display the main menu.
- 5 SOURCE (Power on/Radio/CD/MD*/AUX*) button**
To select the source.
- 6 (SEEK +/-) buttons**
To skip tracks/fast-forward, reverse a track/tune in stations automatically, find a station manually/select a setting.
- 7 BACK button**
To return to a previous display.
- 8 OFF button**
To turn off the unit/stop playback or radio reception.

When selecting the item in the menus



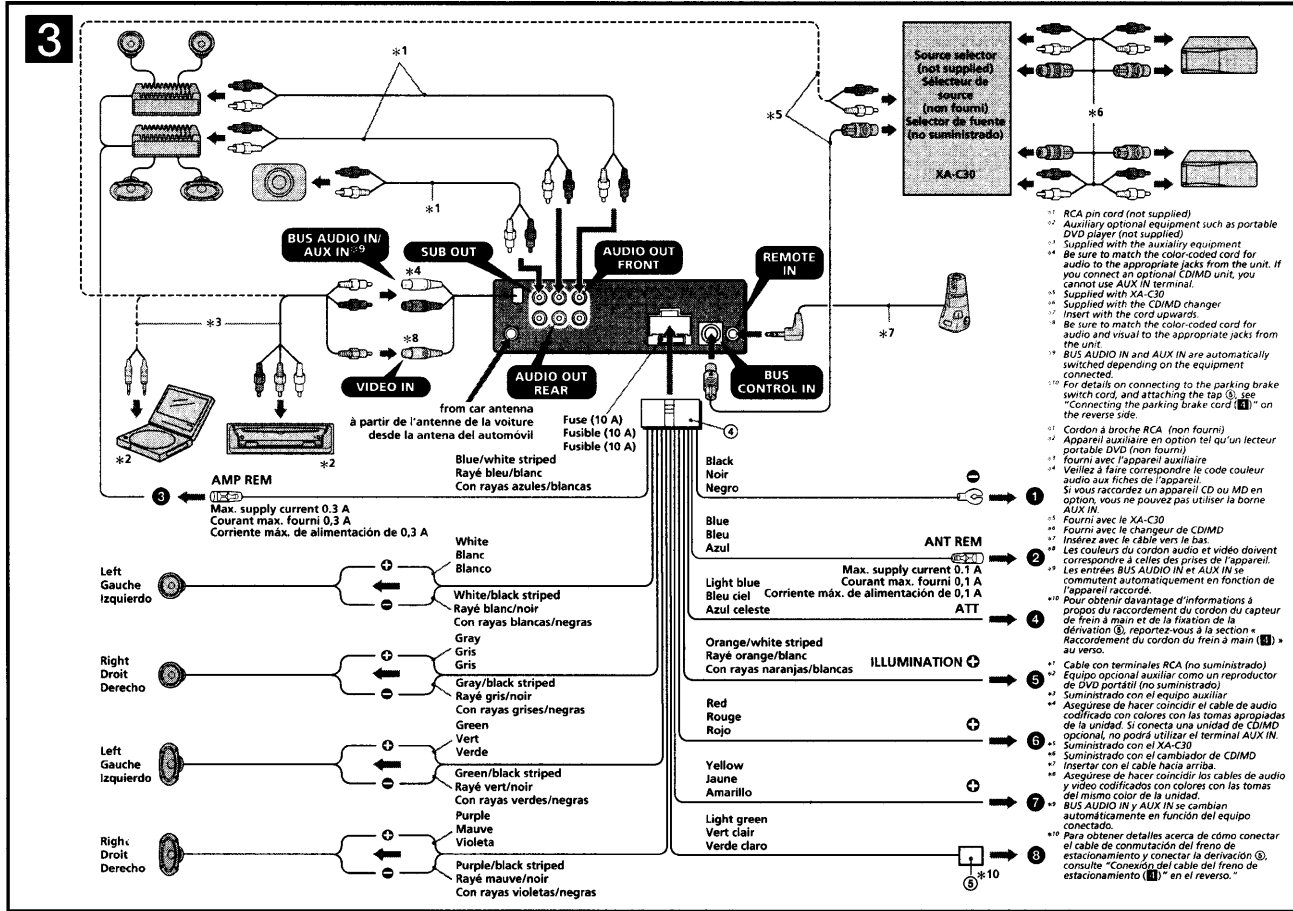
Note
If the display disappears by CDX-M9900 pressing **OFF**, the unit cannot be operated with the card remote commander unless **SOURCE** on the unit is pressed, or a disc is inserted to activate the unit first.

Tip
Refer to "Replacing the lithium battery" for details on how to replace the batteries (page 41).

- 9 VOL (+/-) buttons**
- 10 OPEN/CLOSE button**
To open/close the front panel/To eject a disc when loaded.
- 11 CAPTURE button**
To store images.
- 12 IMAGE button**
To select the display pattern.
- 13 MODE button**
To change the radio band/playback unit.
- 14 (DISC +/-) button**
To receive preset stations/change the disc*5, skip albums*6/select a menu.
- 15 ENTER button**
To decide an item/apply a setting.
- 16 ATT button**
To attenuate the sound.

*1 The CAT button is available only when the XM tuner is connected.
*2 Available only when playing back on this unit.
*3 When an optional MD unit is connected.
*4 Available only when an optional Sony portable device is connected to AUX IN terminal of the unit. When you connect a Sony portable device and CD/MD unit(s) at the same time, use the AUX IN selector.
*5 When an optional CD/MD unit is connected.
*6 Available only when an MP3 file is played.

Connections



Connection diagram (3)

- To a metal surface of the car**
First connect the black ground lead, then connect the orange/white striped, yellow, and red power input leads.
- To the power antenna control lead or power supply lead of antenna booster amplifier**
Notes
• It is not necessary to connect this lead if there is no power antenna or antenna booster, or with a manually-operated telescopic antenna.
• When your car has a built-in FM/AM antenna in the rear side glass, see "Notes on the control and power supply leads."
- 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 interface cable of a car telephone**
- To a car's illumination signal**
Be sure to connect the black ground lead to a metal surface of the car first.
- 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.
- To the parking brake switch cord**

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 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 fil de masse noir et, ensuite, les fils d'entrée d'alimentation rayé orange/blanc, jaune, et rouge.
- Vers le fil de commande de l'antenne électrique ou le fil d'alimentation de l'amplificateur d'antenne**
Remarques
• Il n'est pas nécessaire de raccorder ce fil 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 fils de commande et d'alimentation ».
- Au niveau du 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.
- Vers le cordon de liaison d'un téléphone de voiture**
- Vers le connecteur du signal d'éclairage de la voiture**
Raccordez d'abord le fil de masse noir à un point métallique du véhicule.
- 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 fil de masse noir à un point métallique du véhicule.
- À la borne +12 V qui est alimentée en permanence**
Raccordez d'abord le fil de masse noir à un point métallique du véhicule.
- Vers le cordon du capteur du frein à main**
Remarques sur les fils de commande et d'alimentation
• Le fil de commande de l'antenne électrique (bleu) fournit une alimentation de +12 V CC lorsque vous mettez la radio sous tension.
• Lorsque votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière latérale, raccordez le fil de commande de l'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 fil d'entrée d'alimentation jaune est raccordé, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Remarques sur le raccordement des haut-parleurs

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

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.

Diagrama de conexión (3)

- A una superficie metálica del automóvil**
Conecte primero el cable de puesta a masa negro, y después los cables con rayas naranja/blanco, amarillo, y rojo de entrada de alimentación.
- Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de antena**
Notas
• Si no se dispone de antena motorizada ni de amplificador de antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.
• Si el automóvil incorpora una antena de FM/AM en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación."
- A la toma AMP REMOTE IN del amplificador de potencia opcional**
Esta conexión es sólo para amplificadores. La conexión de cualquier otro sistema puede dañar la unidad.
- Al cable de interfaz de un teléfono para automóvil**
- A una señal de iluminación del automóvil**
Asegúrese de conectar primero el cable de toma a tierra negro a una superficie metálica del automóvil.
- Al terminal de alimentación de +12 V que recibe energía en la posición de accesorio del interruptor de la llave de encendido**
Notas
• Si no hay posición de accesorio, conéctelo al terminal de alimentación (batería) de +12 V que recibe energía sin interrupción.
• Asegúrese de conectar primero el cable de toma a tierra negro a una superficie metálica del automóvil.
• Si el automóvil incorpora una antena de FM/AM en el cristal trasero o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación."
- Al terminal de alimentación de +12 V que recibe energía sin interrupción**
Asegúrese de conectar primero el cable de toma a tierra negro a una superficie metálica del automóvil.
- Al cable de conmutación del freno de estacionamiento**

Notas sobre los cables de control y de fuente de alimentación

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

Conexión para protección de la memoria
Si conecta el conductor de entrada amarillo, el circuito de la memoria recibirá siempre alimentación, aunque apague la llave de encendido.

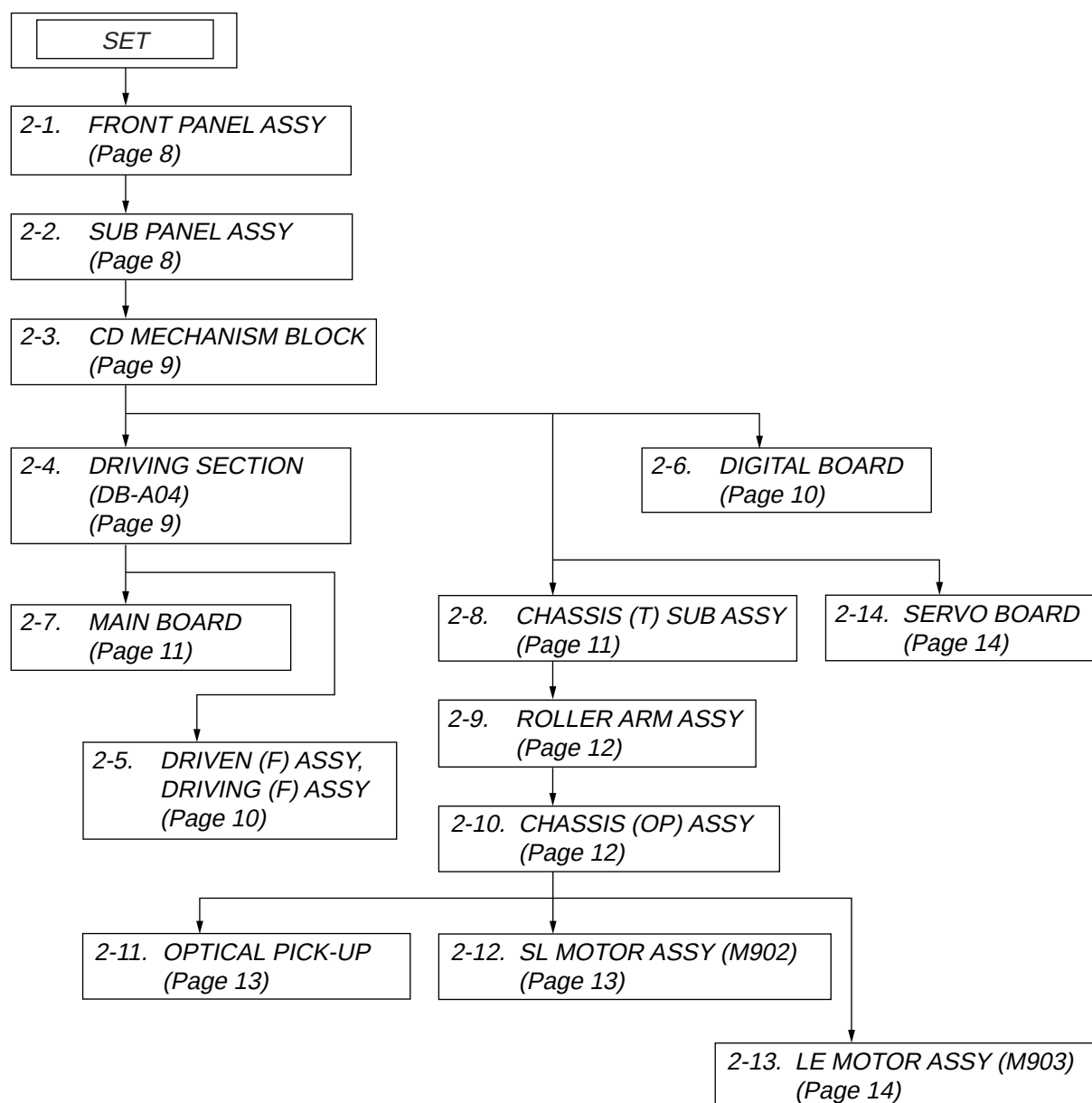
Notas sobre la conexión de los altavoces

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

Nota sobre la conexión
Si el altavoz y el amplificador no están conectados correctamente, aparecerá "Failure" en la pantalla. Si es así, compruebe la conexión de ambos dispositivos.

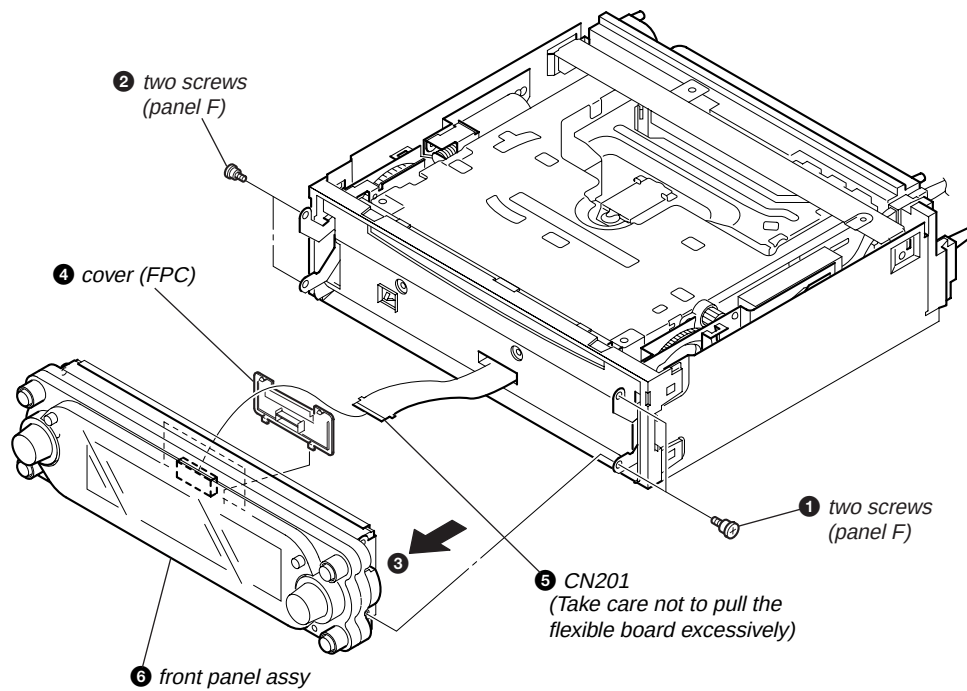
SECTION 2 DISASSEMBLY

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

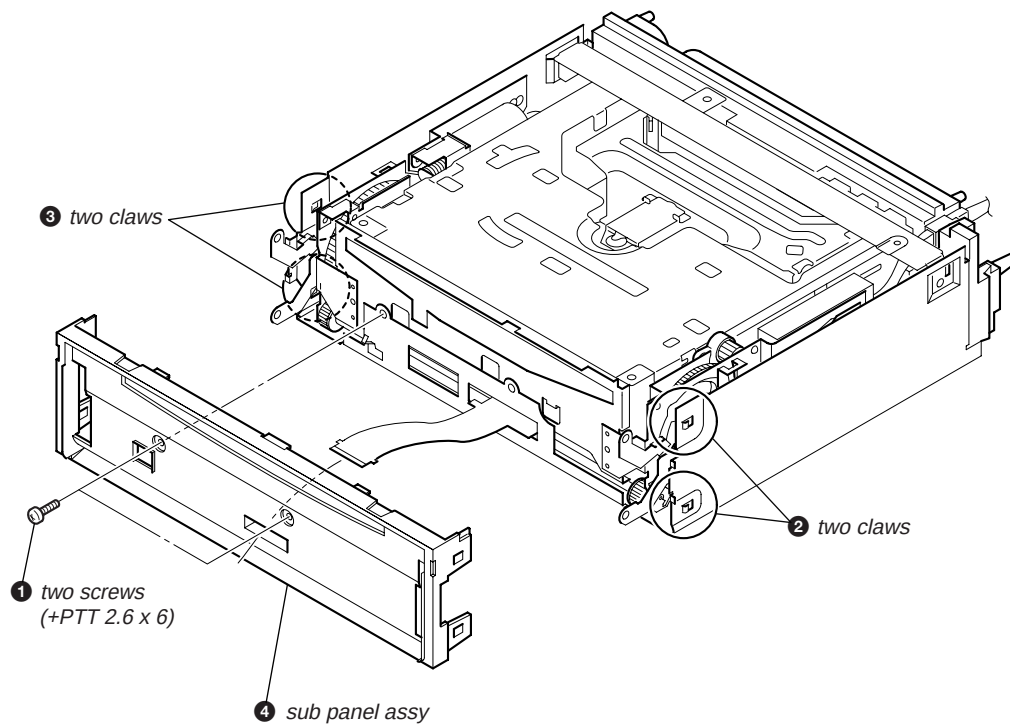


Note : Follow the disassembly procedure in the numerical order given.

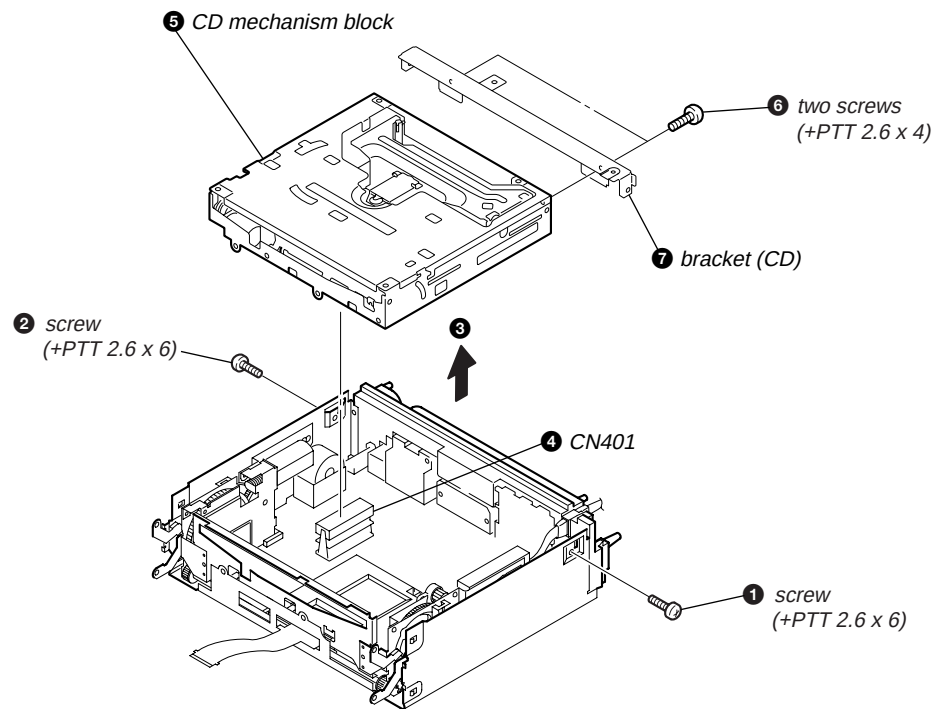
2-1. FRONT PANEL ASSY



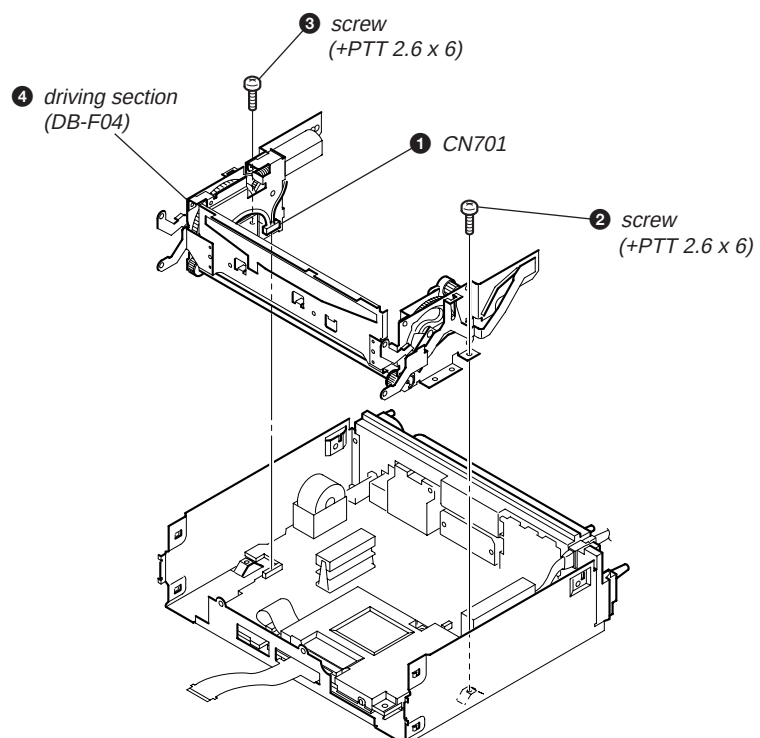
2-2. SUB PANEL ASSY



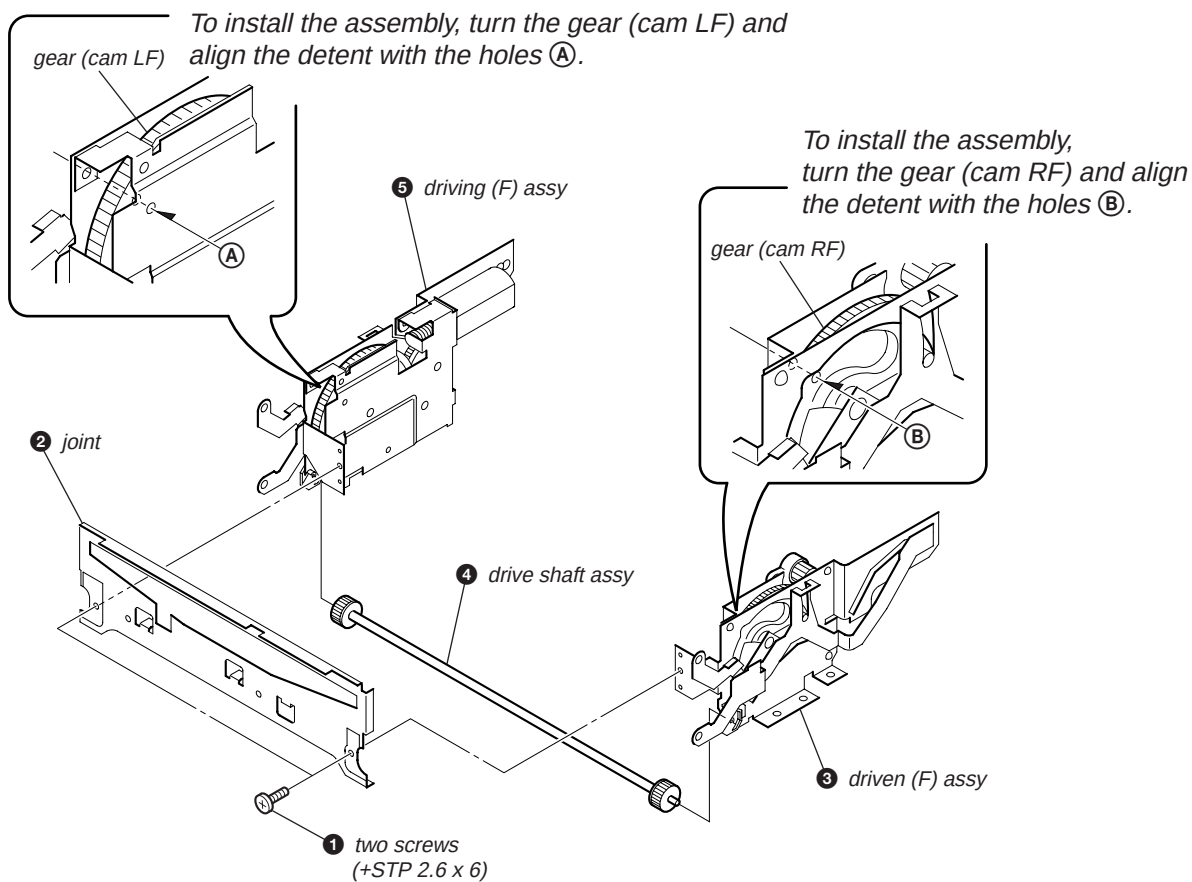
2-3. CD MECHANISM BLOCK



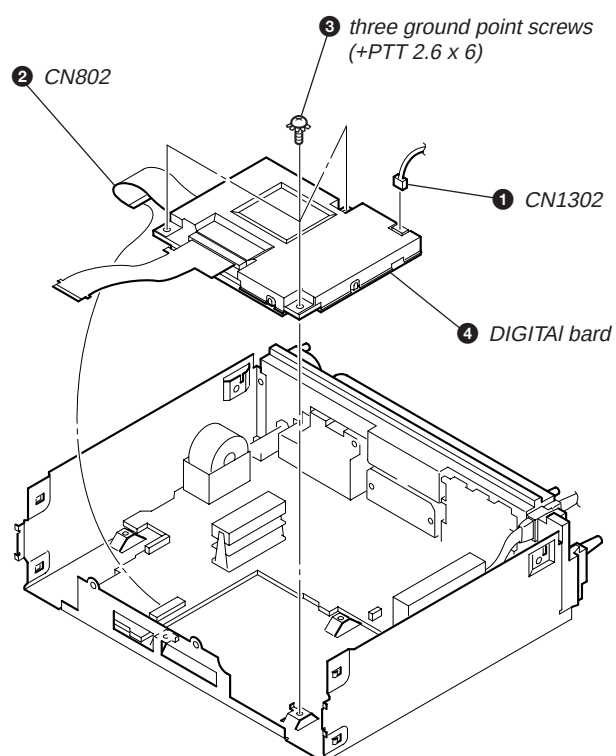
2-4. DRIVING SECTION



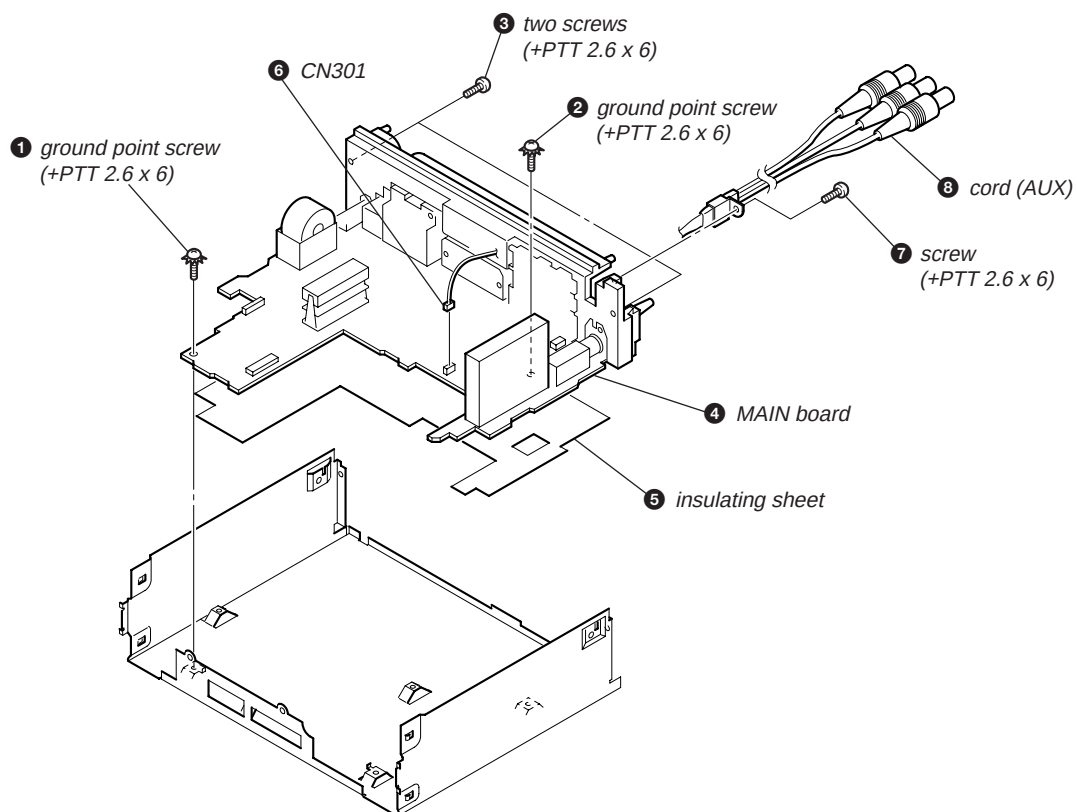
2-5. DRIVEN (F) ASSY, DRIVING (F) ASSY



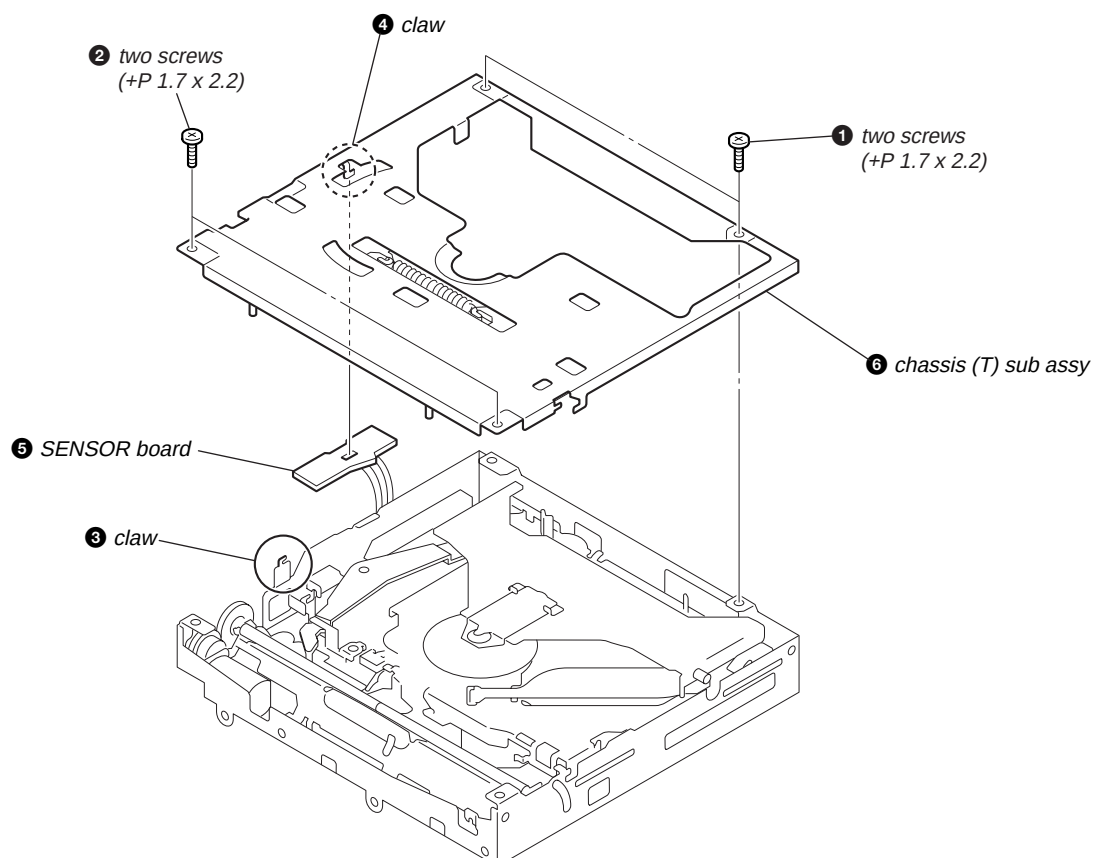
2-6. DIGITAL BOARD



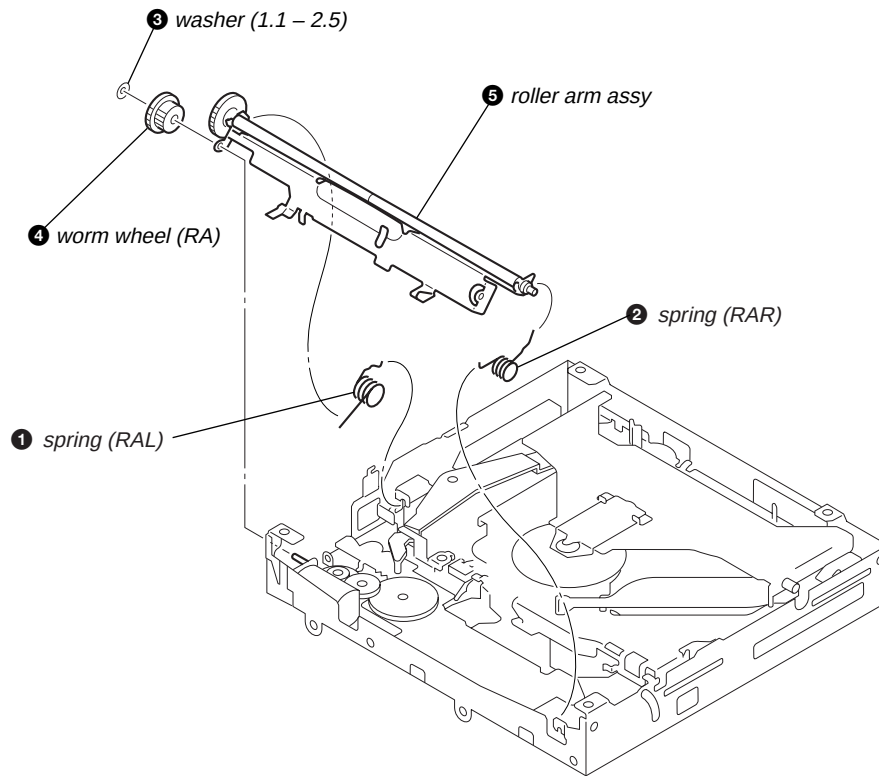
2-7. MAIN BOARD



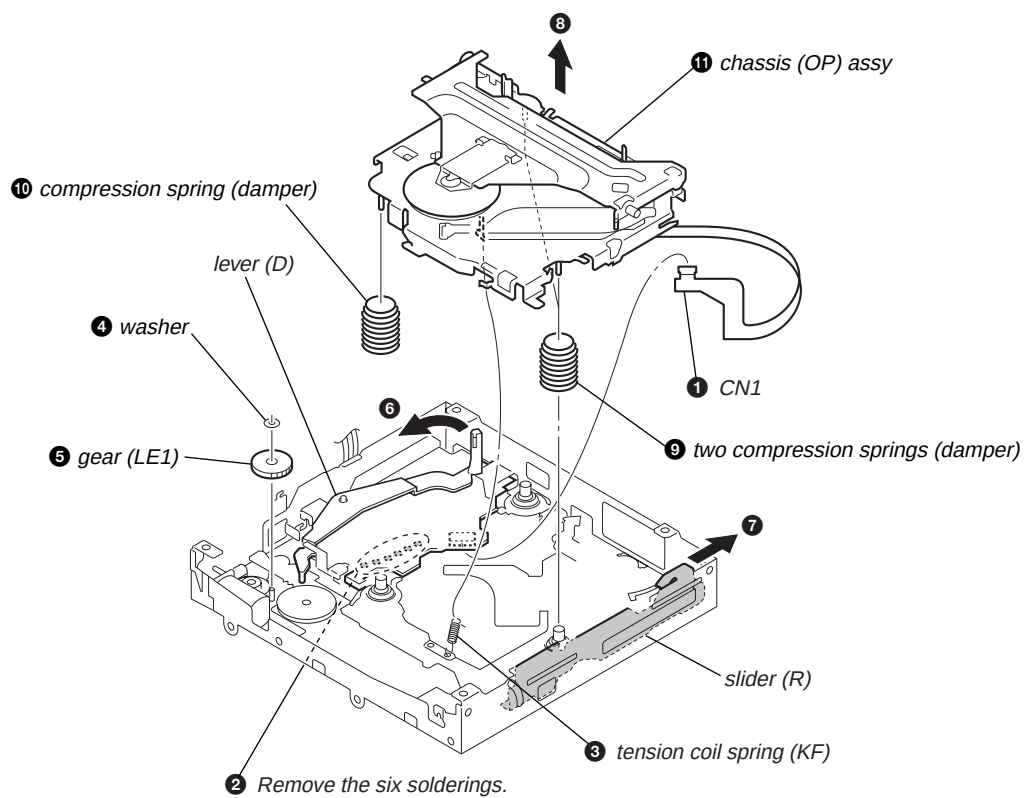
2-8. CHASSIS (T) SUB ASSY

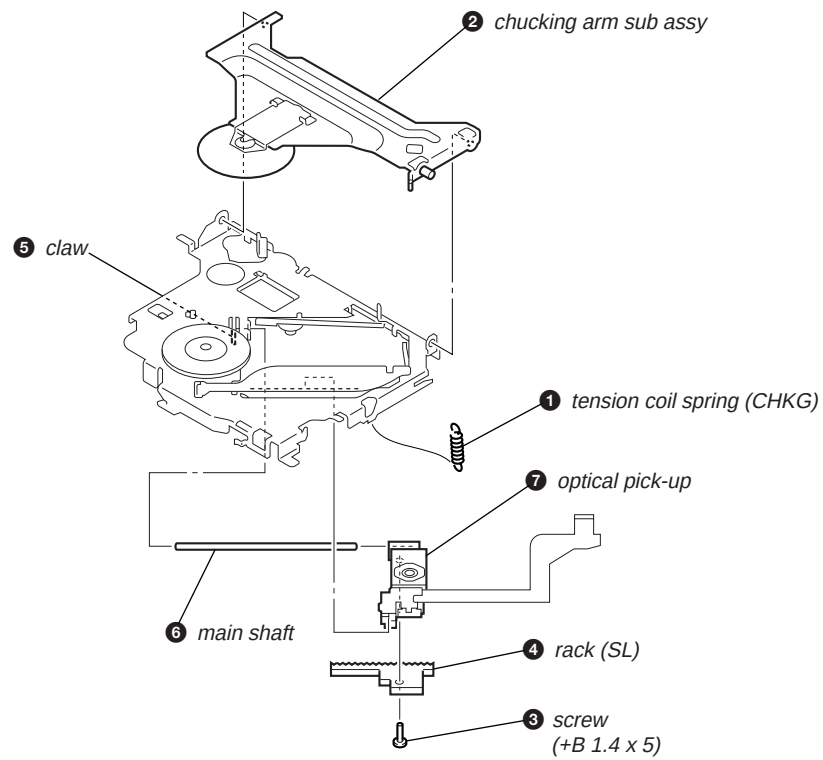
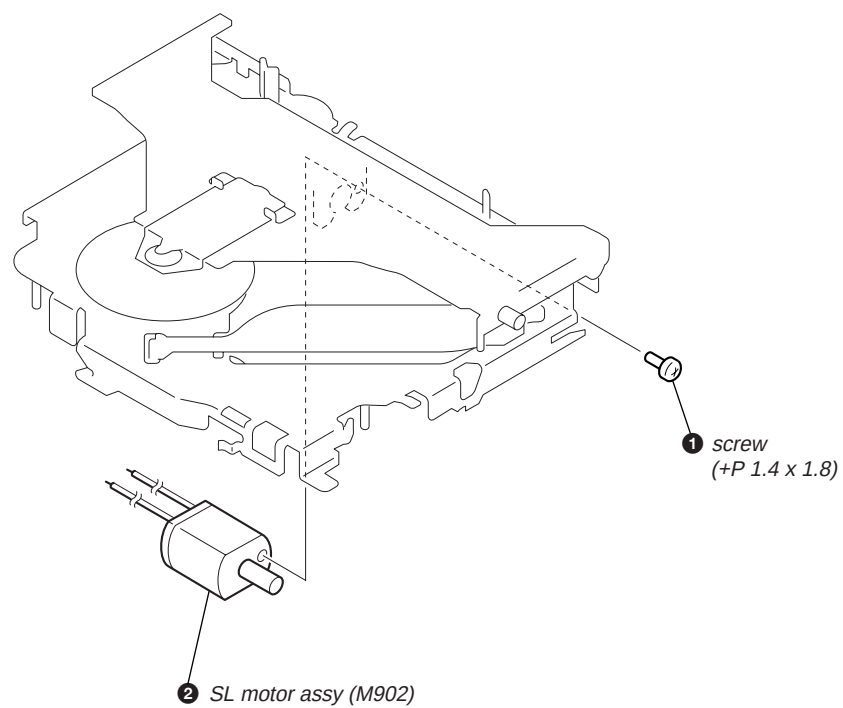


2-9. ROLLER ARM ASSY

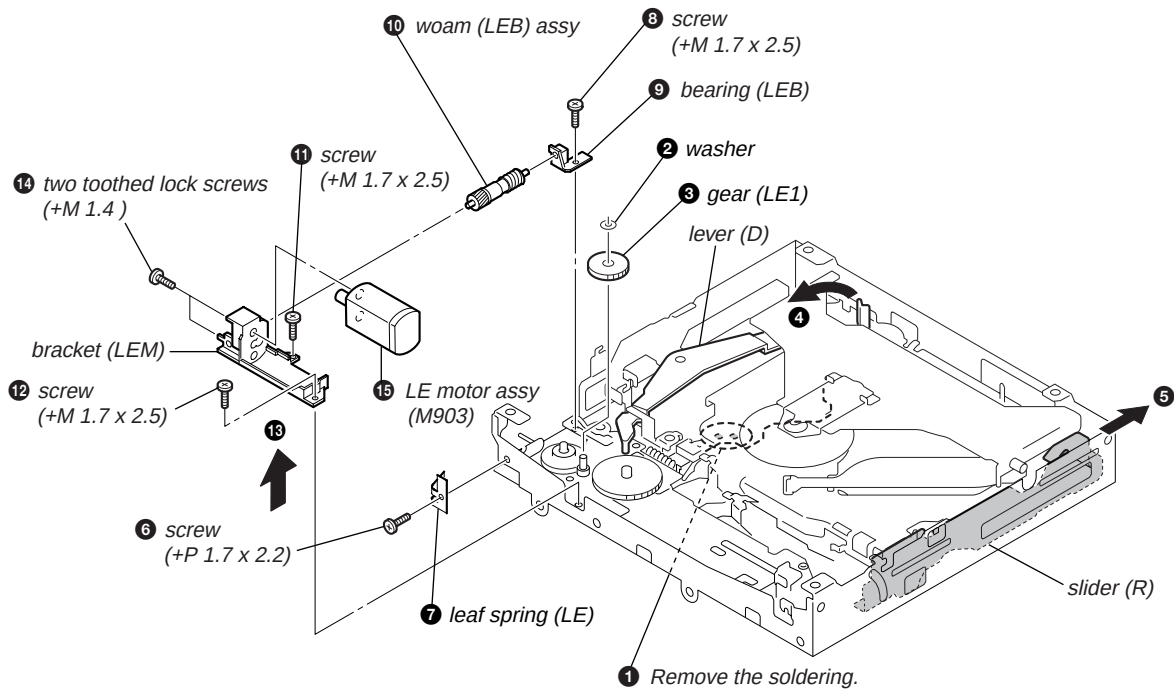


2-10. CHASSIS (OP) ASSY

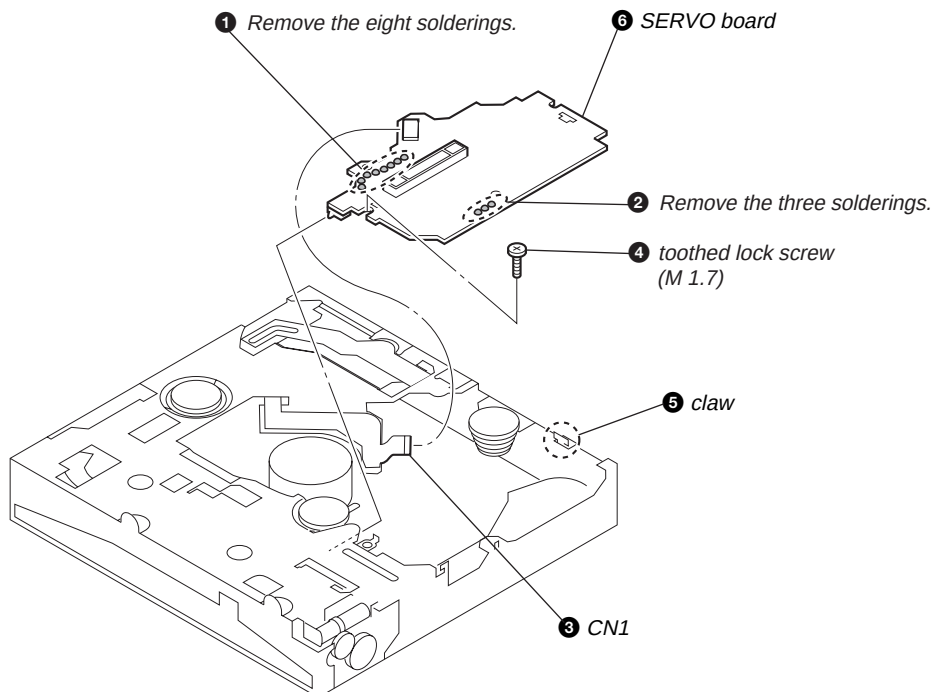


2-11. OPTICAL PICK-UP**2-12. SL MOTOR ASSY (M902)**

2-13. LE MOTOR ASSY (M903)



2-14. SERVO BOARD



SECTION 3

DIAGRAMS

3-1. IC PIN DESCRIPTIONS

• IC3 CXD3059BR (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
2	DFCT	I/O	Defect signal input/output
3	FOK	I/O	Focus OK signal input/output
4	VSS	—	Ground pin
5	LOCK	I/O	Not used in this set. (Open)
6	MDP	O	Spindle motor servo control signal output
7	SSTP	I	Disc most inner detection signal input
8	IOVSS1	—	Digital ground pin for I/O
9	SFDR	O	Sled drive signal output
10	SRDR	O	Sled drive signal output
11	TFDR	O	Tracking drive signal output
12	TRDR	O	Tracking drive signal output
13	FFDR	O	Focus drive signal output
14	FRDR	O	Focus drive signal output
15	IOVDD1	—	Digital power supply pin for I/O
16	AVDD0	—	Analog power supply pin
17	AVSS0	—	Analog ground pin
18	NC	—	Not used. (Open)
19	E	I	E signal input
20	F	I	F signal input
21	TEI	I	Tracking error signal input from the DSSP block
22	TEO	O	Tracking error signal output to the RF amp block
23	FEI	I	Focus error signal input from the DSSP block
24	FEO	O	Focus error signal output to the RF amp block
25	VC	I/O	VC voltage output to the RF amp block Center voltage input from the DSSP block by command select
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
32	RFDCO	I/O	RFDC signal output RFDC signal input from the DSSP block by command select
33	PDSENS	I	Reference voltage input for PD
34	AC SUM	O	RFAC summing amp signal output
35	EQ IN	I	Equalizer circuit signal input
36	LD	O	APC amp signal output
37	PD	I	APC amp signal input
38	NC	—	Not used. (Open)
39	RFC	I	EQ cut off frequency adjustment input
40	AVSS4	—	Analog ground pin
41	RFACO	O	RFAC signal output
42	RFACI	I	RFAC signal input or EFM signal input
43	AVDD3	—	Analog power supply pin
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 for wideband EFM PLL
48	VCTL	I	VCO2 control voltage input for wideband EFM PLL
49	AVSS3	—	Analog ground pin

Pin No.	Pin Name	I/O	Pin Description
50	CLTV	I	VCO1 control voltage input
51	FILO	O	Filter signal output for master PLL
52	FILI	I	Filter signal input for master PLL
53	PCO	O	Charge pump output for master PLL
54	AVDD5	—	Analog power supply pin
55	DDVROUT	O	DC/DC converter output
56	DDVRSEN	I	DC/DC converter output voltage monitor signal input
57	AVSS5	—	Analog ground pin
58	DDCR	I	Reset signal input for DC/DC converter
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	—	Digital ground pin for internal
65	PCMD	O	D/A interface serial data signal output
66	BCK	O	D/A interface bit clock signal output
67	VDD	—	Digital power supply pin for internal
68	EMPH	O	Not used in this set. (Open)
69	EMPHI	I	Not used in this set. (Fixed at “L”.)
70	IOVDD2	—	Digital power supply pin for I/O
71	DOUT	O	Digital out signal output
72, 73	TEST	I	Test pin Normally “L”.
74	IOVSS2	—	Digital ground pin for I/O
75	NC	—	Not used in this set. (Open)
76	XVSS	—	Ground pin for master clock
77	XTAO	O	Crystal oscillation circuit output (16.9344 MHz)
78	XTAI	I	Crystal oscillation circuit input (16.9344 MHz)
79	XVDD	—	Power supply pin for master clock
80	AVDD1	—	Analog power supply pin
81	AOUT1	O	L channel analog signal output
82	VREFL	O	L channel reference voltage output
83	AVSS1	—	Analog ground pin
84	AVSS2	—	Analog ground pin
85	VREFR	O	R channel reference voltage output
86	AOUT2	O	R channel analog signal output
87	AVDD2	—	Analog power supply pin
88	NC	—	Not used. (Open)
89	IOVDD0	—	Digital power supply pin for I/O
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	X’tal select signal input 16.9344 MHz: “L”, 33.8688 MHz: “H”
94	IOVSS0	—	Digital ground pin for I/O
95	XTACN	I	Oscillation circuit control input “H”: Oscillation start, “L”: Oscillation stop
96	SQSO	O	Sub 80 bit and PCM peak, level data signal output CD text data signal output
97	SQCK	I	Clock signal input for SQSO read out
98	SBSO	O	Sub P-W serial data signal output Not used in this set. (Open)
99	EXCK	I	Clock signal input for SBSO read out Not used in this set. (Open)
100	XRST	I	System reset signal input “L”: reset
101	SYSM	I	Mute signal input “H”: mute Not used in this set. (Fixed at “L”.)
102	DATA	I	Serial data signal input
103	VSS	—	Digital ground pin for internal

Pin No.	Pin Name	I/O	Pin Description
104	XLAT	I	Latch signal input
105	CLOCK	I	Serial data transfer clock signal input
106	VDD	—	Digital power supply pin for internal
107	SENS	O	SENS signal output
108	SCLK	I	Clock signal input for SENS serial data read out
109	ATSK	I/O	Input/output for anti-shock
110	WFCK	O	WFCK signal output Not used in this set. (Open)
111	XUGF	O	XUGF signal output Not used in this set. (Open)
112	XPCK	O	XPCK signal output Not used in this set. (Open)
113	GFS	O	GFS signal output
114	C2PO	O	C2PO signal output
115	SCOR	O	Sub code sync signal output
116	VDD	—	Digital power supply pin for internal
117	C4M	O	4.2336 MHz signal output Not used in this set. (Open)
118	WDCK	O	Word clock signal output Not used in this set. (Open)
119	COUT	I/O	Track count signal input/output Not used in this set. (Open)
120	NC	—	Not used. (Open)

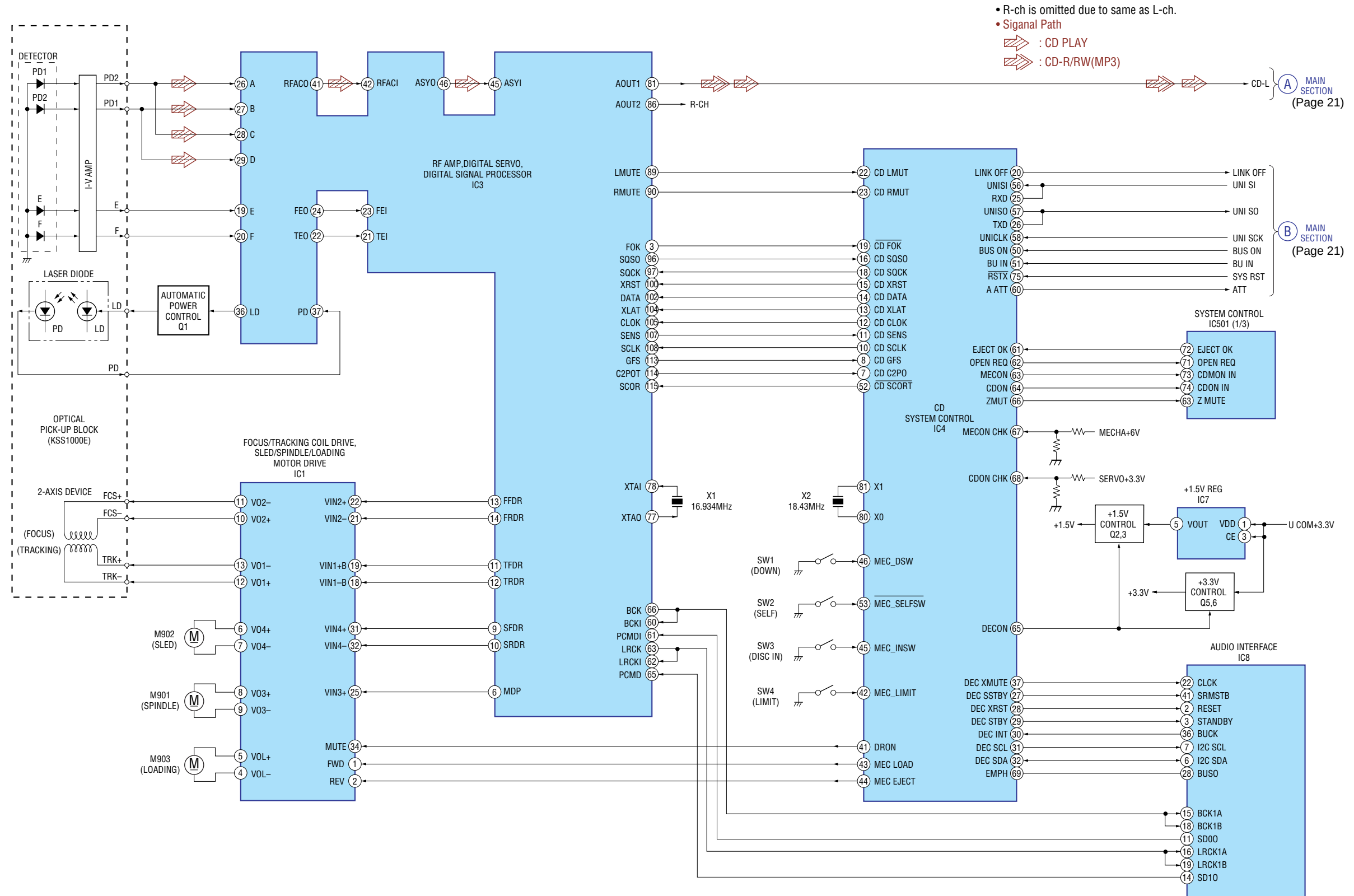
• IC501 MB90F474HPFV-G-178 (SYSTEM CONTROL) (MAIN BOARD (3/3)) (US, Canadian MODEL)

• IC501 MB90F474HPFV-G-179 (SYSTEM CONTROL) (MAIN BOARD (3/3)) (AEP, UK, E MODEL)

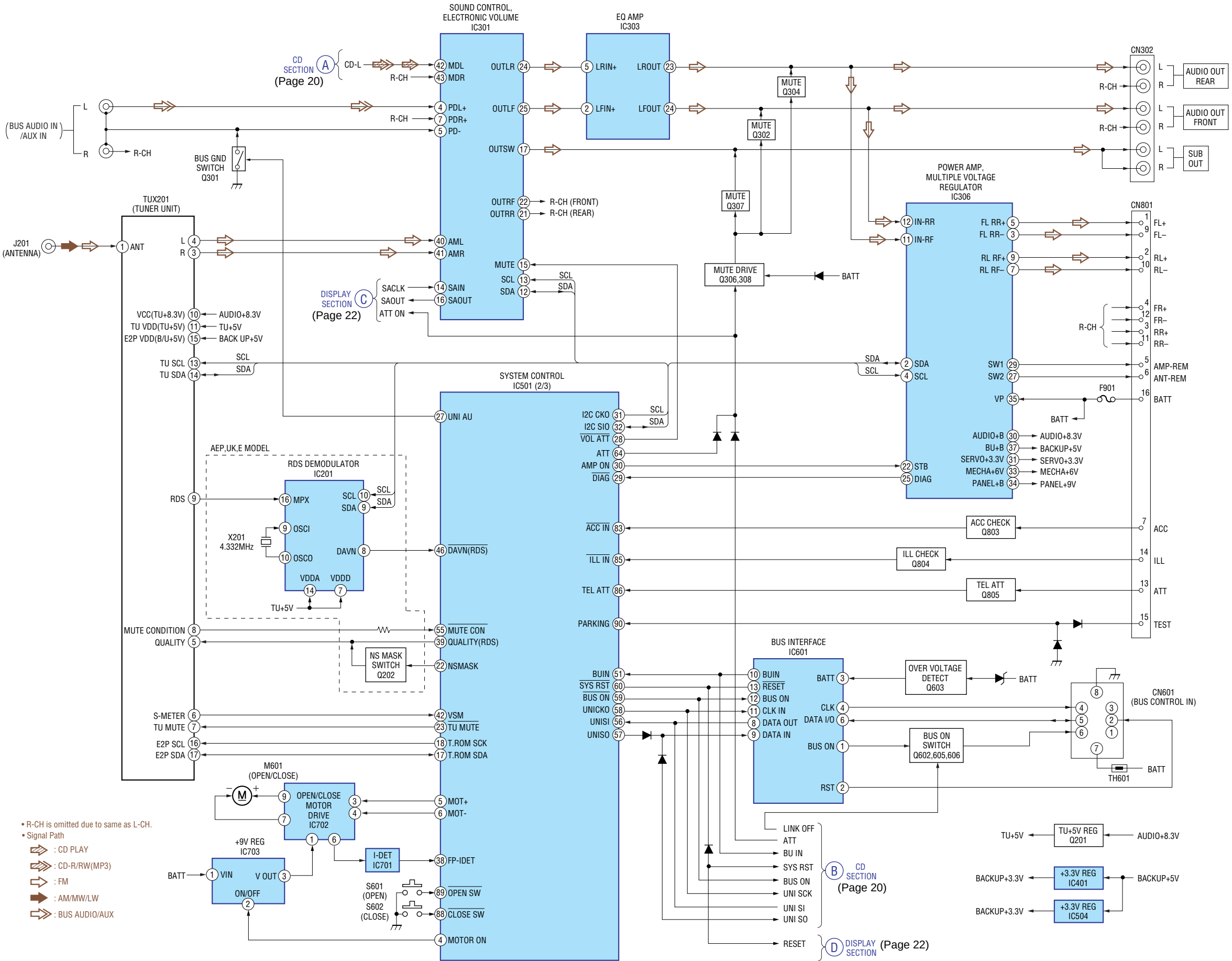
Pin No.	Pin Name	I/O	Pin Description
1	PG	I	Power supply OK detection signal input for DC-DC converter
2	FLASH P ON	O	Flash write communication signal change control signal output L: SH-3 communication, H: PC Ver. UP communication
3	BEEP	O	BEEP signal output Used to PPG function.
4	MOTOR ON	O	Motor power supply on signal output
5	MOT +	O	Open/close motor control signal output (+)
6	MOT –	O	Open/close motor control signal output (–)
7	LED ON	O	CD side illumination on signal output when front panel open
8	FSW IN	I	DC-DC converter oscillator frequency count signal input Used to input capture.
9	VSS	—	Ground pin
10	BOOST	O	Boost signal output
11	ENC SW1	I	ENC switch 1 signal input
12	ENC SW2	I	ENC switch 2 signal input
13 to 16	NCO	O	Not used in this set. (Open)
17	T.ROM SDA	I/O	Tuner EEPROM serial data signal input/output
18	T.ROM SCK	O	Tuner EEPROM serial clock signal output
19, 20	NCO	O	Not used in this set. (Open)
21	VCC5	—	Power supply pin (+5 V)
22	NS MASK	O	Tuner noise mask signal output
23	TU MUTE	O	Tuner mute signal output
24	FLASHW	I	Flash write mode detection signal input
25	SH3SI/FLSSI	I	SH3 communication signal input (RXD)/Flash write data signal input
26	SH3SO/FLSSO	O	SH3 communication signal output (TXD)/Flash write data signal output
27	UNI AU	O	BUS audio in/AUX audio in select control signal output H: SONY BUS audio, L: AUX audio
28	VOLATT	O	Electronic volume mute signal output
29	DIAG	I	Condition signal input from power amplifier IC
30	AMP ON	O	AMP STB signal output Used to control of power amplifier IC. L: Off, H: On
31	I2CCKO	O	Serial clock signal output for tuner and electronic volume IC
32	I2CSIO	I/O	Serial data signal input/output for tuner and electronic volume IC
33	AVCC	—	Power supply pin (+3.3 V)
34	AVRH	—	Power supply pin (+3.3 V)
35	AVSS	—	Ground pin
36	KEYIN0	I	key signal input Used to A/D port.
37	TEMP TR	I	Temperature detection signal input for front panel motor control Used to A/D port.
38	FP IDET	I	Front panel operation current detection signal input Used to A/D port.
39	QUALITY (RDS)	I	Tuner noise detection signal input Used to A/D port.
40	VSS	—	Ground pin
41	RC IN0	I	Rotary commander signal input Used to A/D port.
42	VSM	I	S meter voltage signal input Used to A/D port.
43, 44	NCO	O	Not used in this set. (Open)
45	KEY ACK	I	Key acknowledge detection signal input H: On (Used to interruption port.)
46	DAVN (RDS)	I	RDS data block synchronization detection signal input
47, 48	MD0, MD1	—	Connected to power supply pin (+5 V)
49	MD2	—	Connected to ground pin
50	NCO	O	Not used in this set. (Open)
51	BU IN	I	Back up power supply detection signal input Used to interruption port.
52 to 54	NCO	O	Not used in this set. (Open)
55	MUTE CON	I	Mute condition signal input Used to interruption port.
56	UNISI	I	SONY BUS data signal input Used to serial port.
57	UNISO	O	SONY BUS data signal output Used to serial port.

Pin No.	Pin Name	I/O	Pin Description
58	UNICKO	O	SONY BUS clock signal output Used to serial port.
59	BUSON	O	BUS ON control signal output
60	SYSRST	O	System reset signal output
61	AD ON	O	Power supply control signal output of A/D conversion
62	SIRCS	I	Remote control data signal input
63	Z MUTE	I	Open/close panel photo detection signal input Used to input capture.
64	ATT	O	System mute control signal output (LINE OUT)
65	NCO	O	Not used in this set. (Open)
66	DEBUG	I	Port input for SH-3 DEBUG
67	DSTSEL1	I	Destination select pin 1
68	DSTSEL2	I	Destination select pin 2
69, 70	NCO	O	Not used in this set. (Open)
71	OPENREQ	I	Front panel operation request signal input
72	EJECTOK	O	Front panel open condition signal output
73	CDMON IN	I	Mechadeck power supply on signal input H: Power on
74	CDON IN	I	Servo power supply on signal input H: Power on
75	XRST	I	Reset signal input
76	RAMBU	I	RAM reset detection signal input
77	X1A	I	Low speed oscillation signal input (32.768 kHz)
78	X0A	I	Low speed oscillation signal input (32.768 kHz)
79	VSS	—	Ground pin
80	X0	I	High speed oscillation signal input (3.68 MHz)
81	X1	I	High speed oscillation signal input (3.68 MHz)
82	VCC3	—	Power supply pin (+3.3 V)
83	ACCIN	I	ACC power supply detection signal input L: ACC on
84	TESTIN	I	Test mode setting detection signal input
85	ILLIN	I	ILL line detection signal input L: Dimmer on
86	TELATT	I	TEL mute detection signal input
87	RC IN1	I	Rotary commander signal input
88	CLOSE SW	I	Open/close panel position detection signal input
89	OPEN SW	I	Open/close panel position detection signal input
90	PARKING	O	Parking signal output
91, 92	RE-2, RE+2	I	Rotary encoder signal input
93, 94	RE-1, RE+1	I	Rotary encoder signal input
95	DP 18VO	O	+1.8 V power supply on/off control signal output
96	DP PW	I	Communication possible condition signal input
97	MST PW	O	Power supply on condition signal output
98	DP RST	O	DP reset signal output
99	DDC ON	O	Concentration power supply control signal output
100	FSW SFT	O	DC-DC converter frequency control signal output

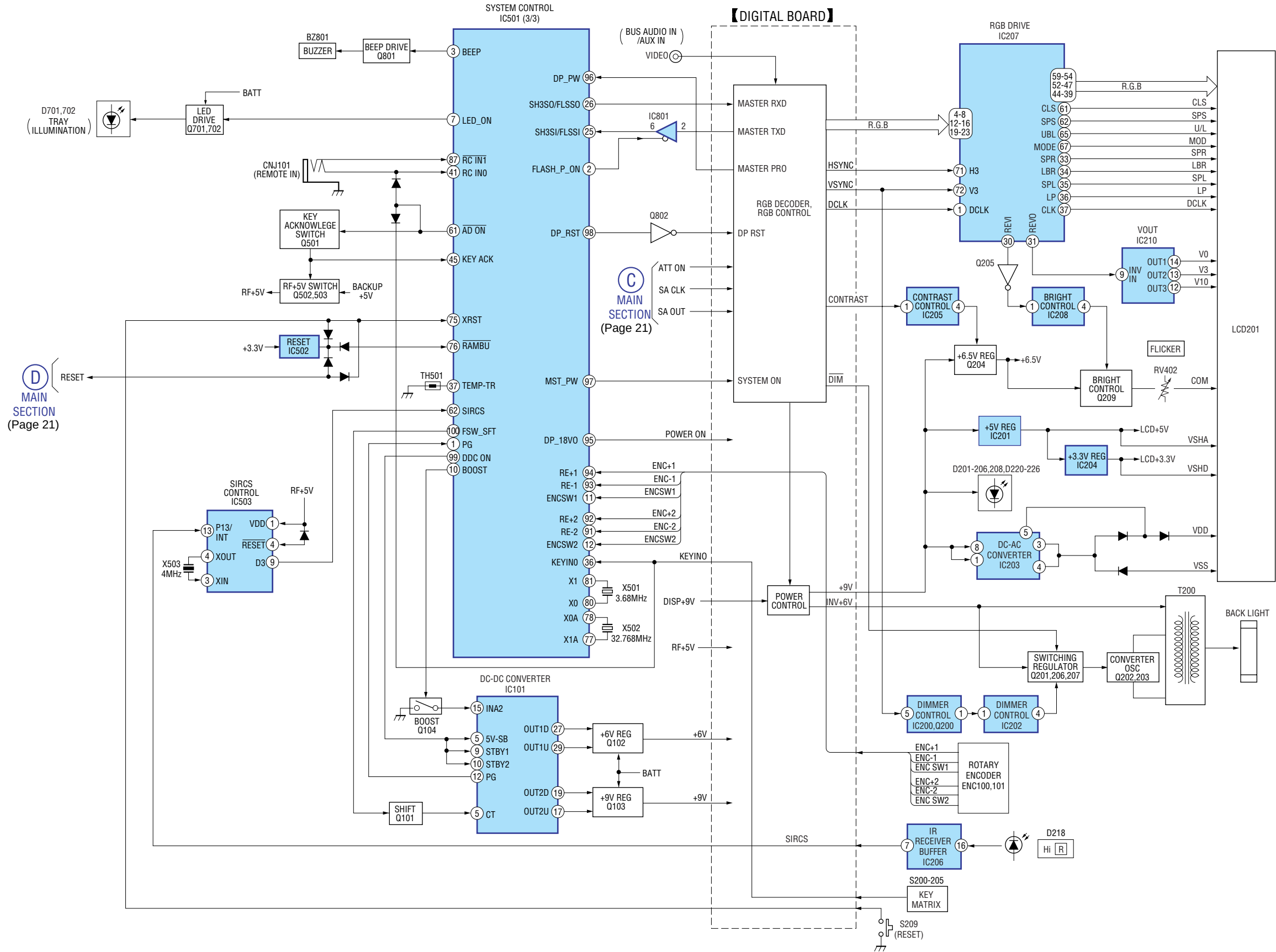
3-2. BLOCK DIAGRAM — CD SECTION —



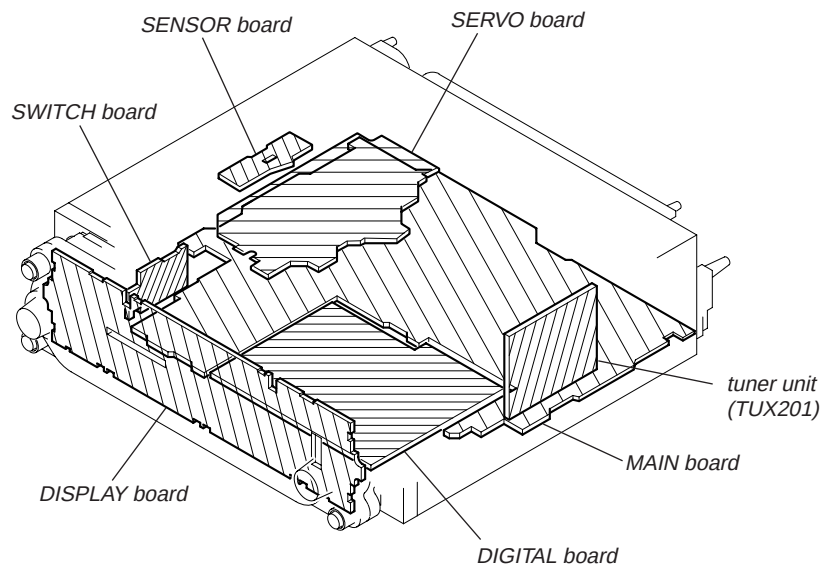
3-3. BLOCK DIAGRAM — MAIN SECTION —



3-4. BLOCK DIAGRAM — DISPLAY SECTION —



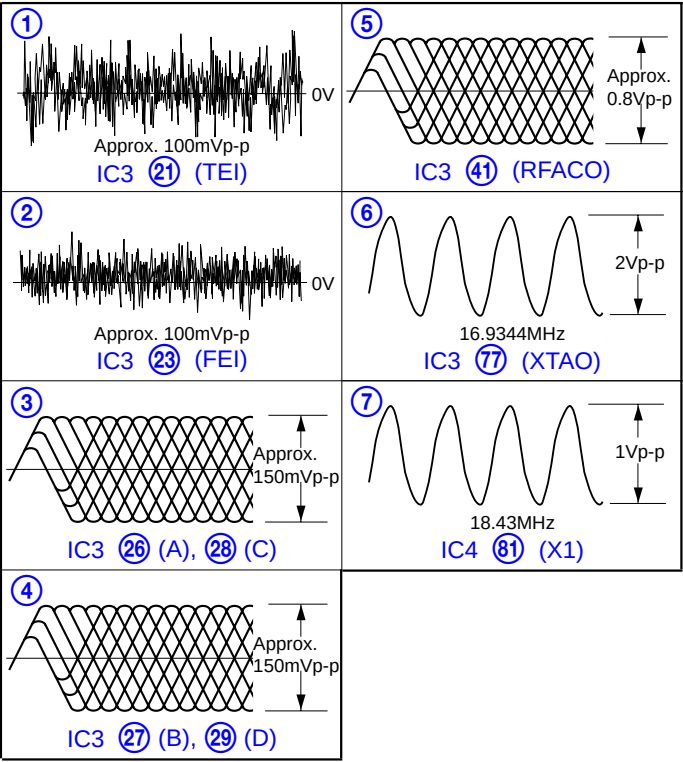
3-5. CIRCUIT BOARDS LOCATION



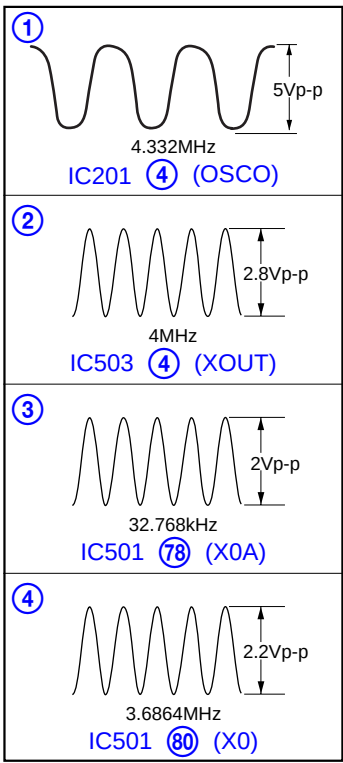
3-6. WAVEFORMS

— Servo Board —

(MODE: CD PLAY)



— Main Board —



3-7. 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. pF: $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Δ : internal component.
- : 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 (1/2), (2/2)
no mark : CD PLAY
- Main (1/3), (2/3), (3/3) and Display sections
no mark : FM
() : AM
< > : CD PLAY
* : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 : CD PLAY
 : CD-R/RW (MP3)
 : FM
 : AM/MW/LW
 : BUS AUDIO/AUX
- Abbreviation
CND : Canadian model.

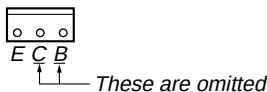
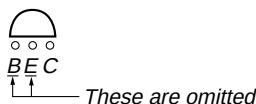
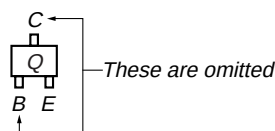
For printed wiring boards.**Note:**

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

Caution:

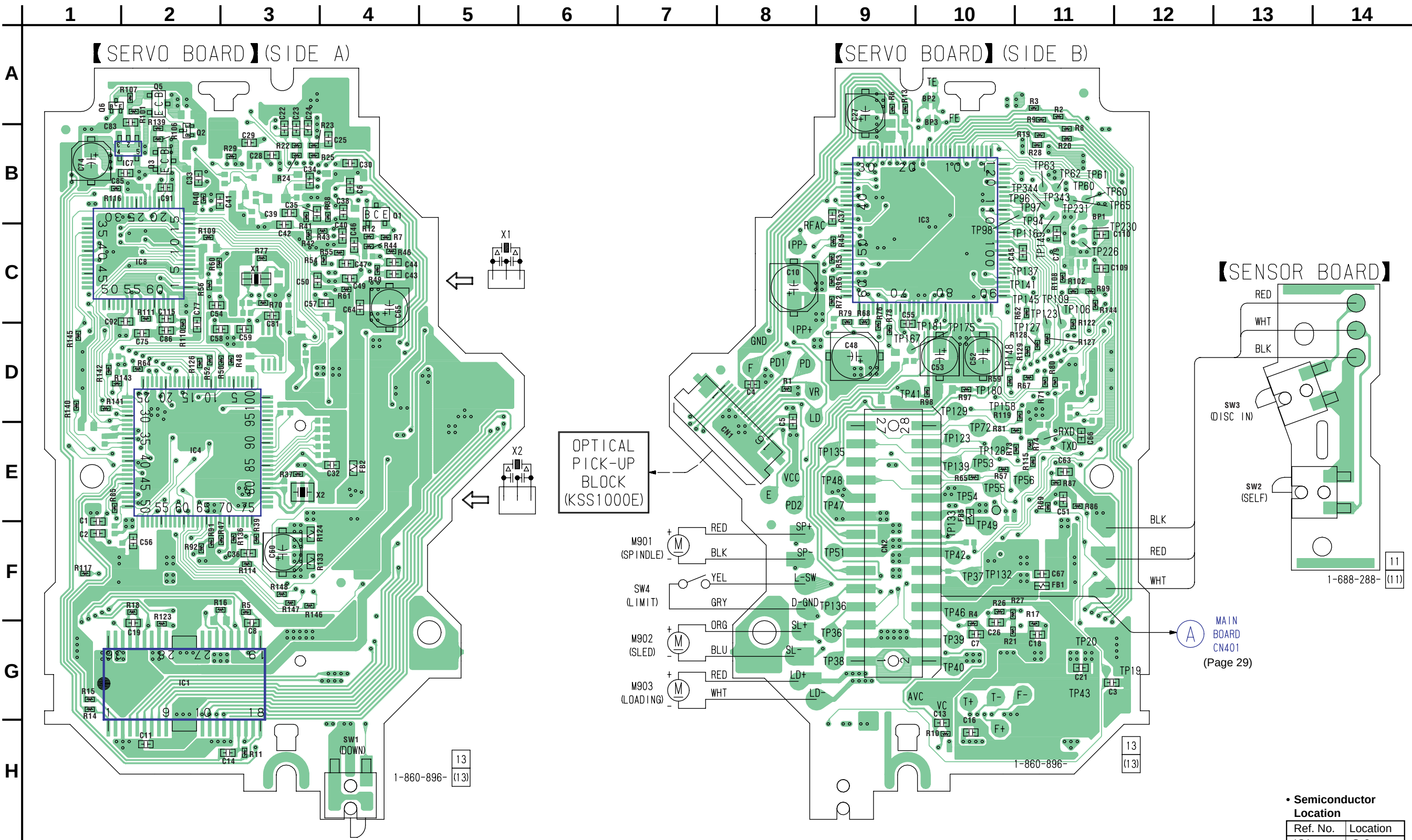
Pattern face side: Parts on the pattern face side seen from the (Side B) pattern face are indicated.

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



- Abbreviation
CND : Canadian model.

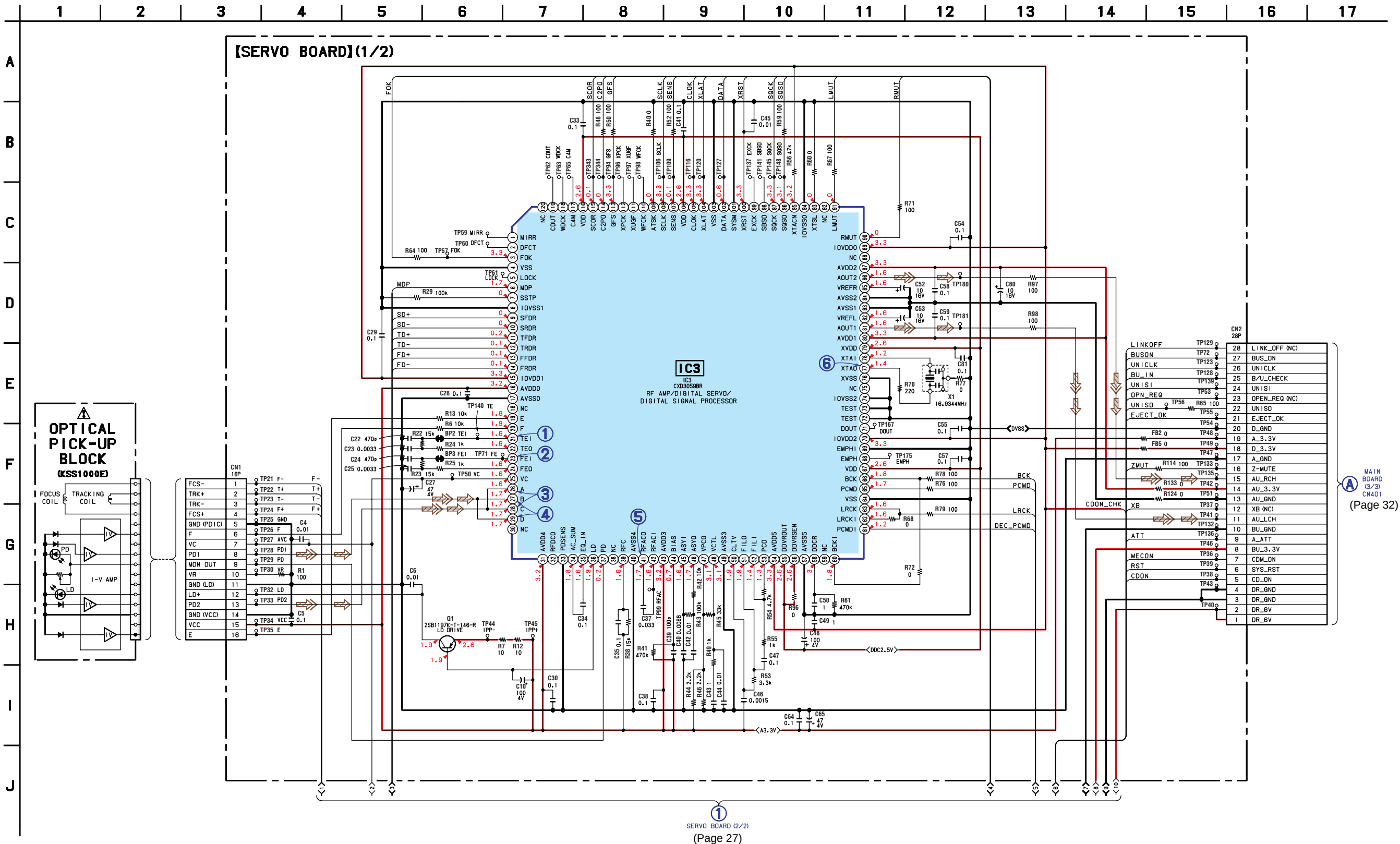
3-8. PRINTED WIRING BOARDS — CD MECHANISM SECTION — • Refer to page 23 for Circuit Boards Location. : Uses unleaded solder.



• Semiconductor Location

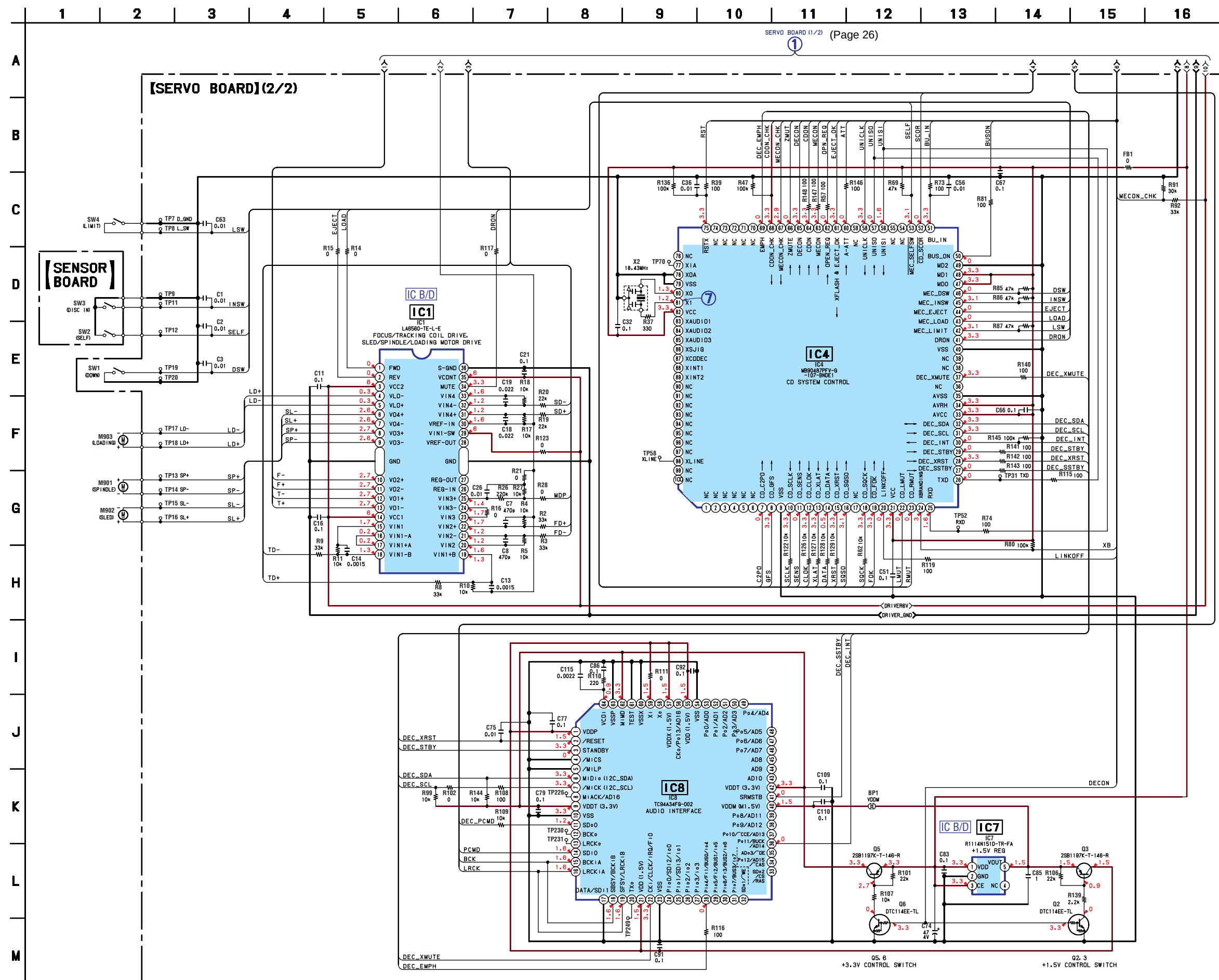
Ref. No.	Location
IC1	G-2
IC3	B-10
IC4	E-2
IC7	B-2
IC8	C-2
Q1	B-4
Q2	B-2
Q3	B-2
Q5	A-2
Q6	A-1

3-9. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (1/2) — • Refer to page 23 for Waveforms.

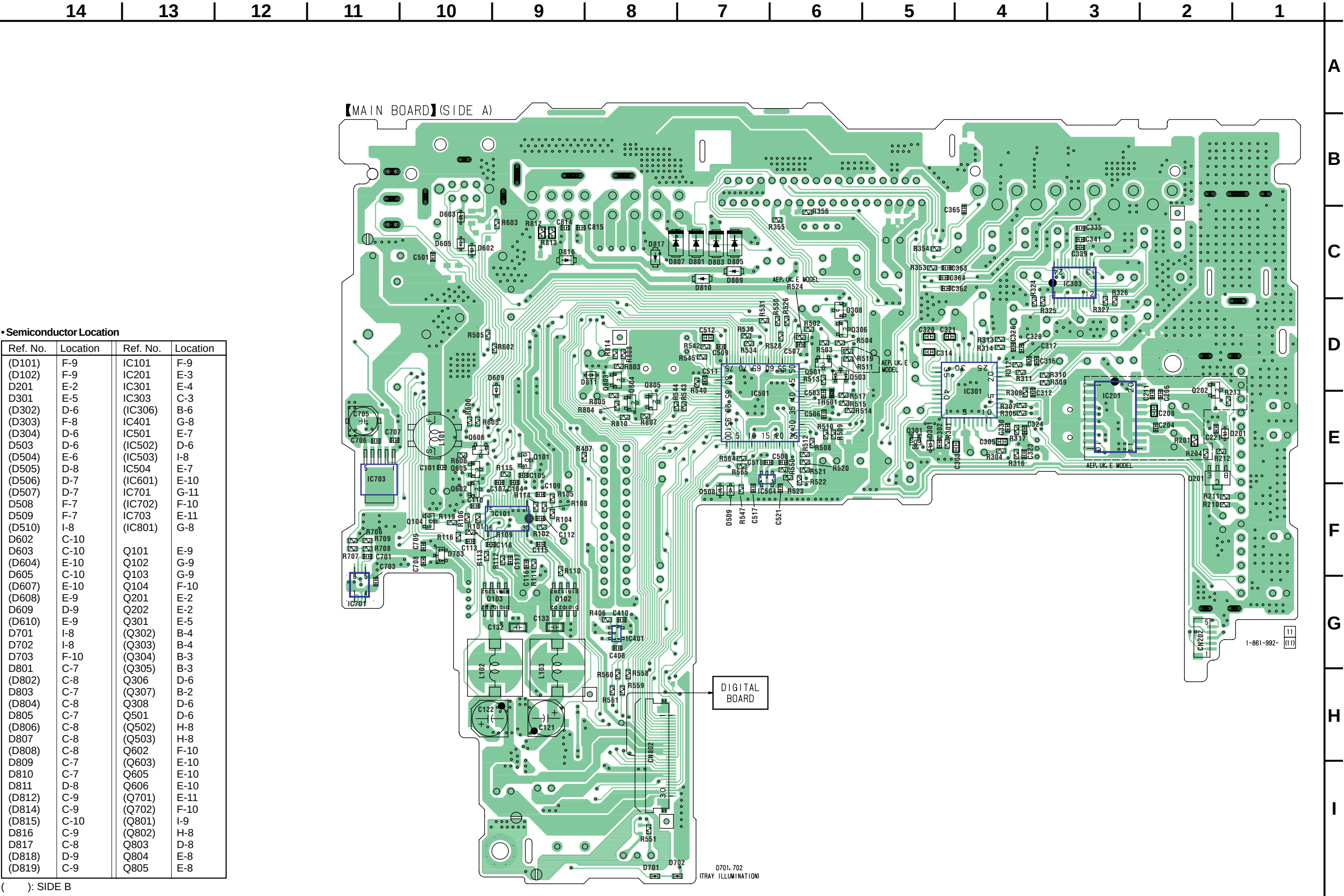


- Refer to page 23 for Waveform.

3-10. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (2/2) — • Refer to page 35 for IC Block Diagrams.

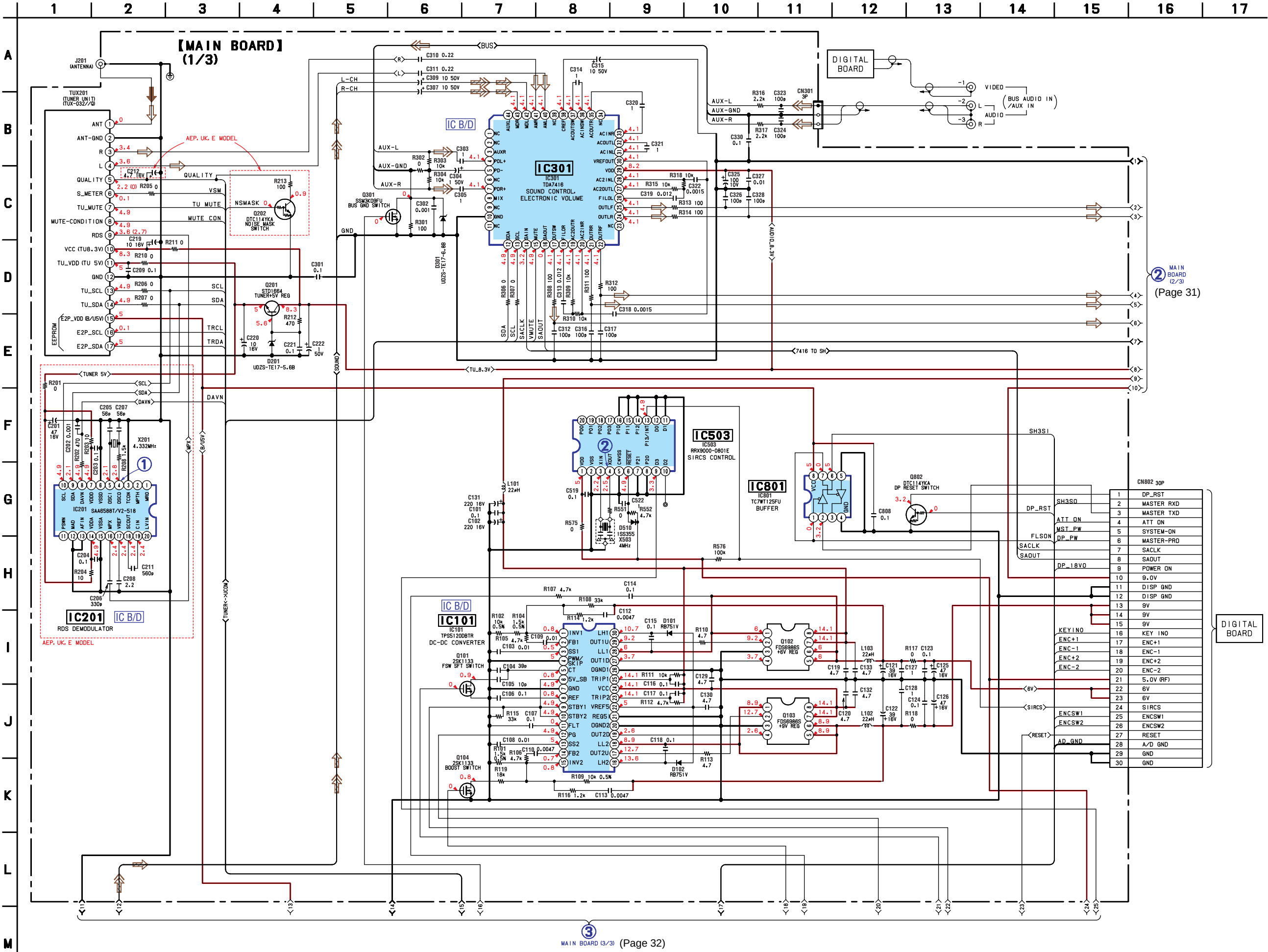


3-11. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 23 for Circuit Boards Location. : Uses unleaded solder.

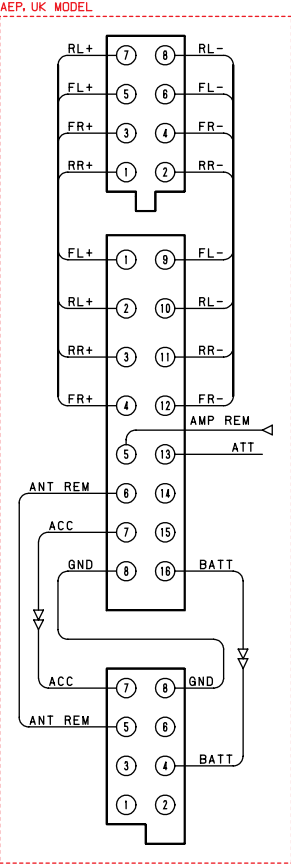
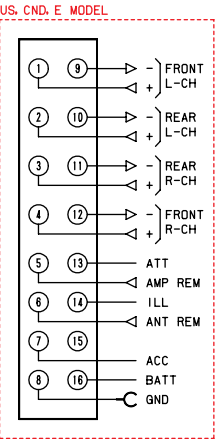
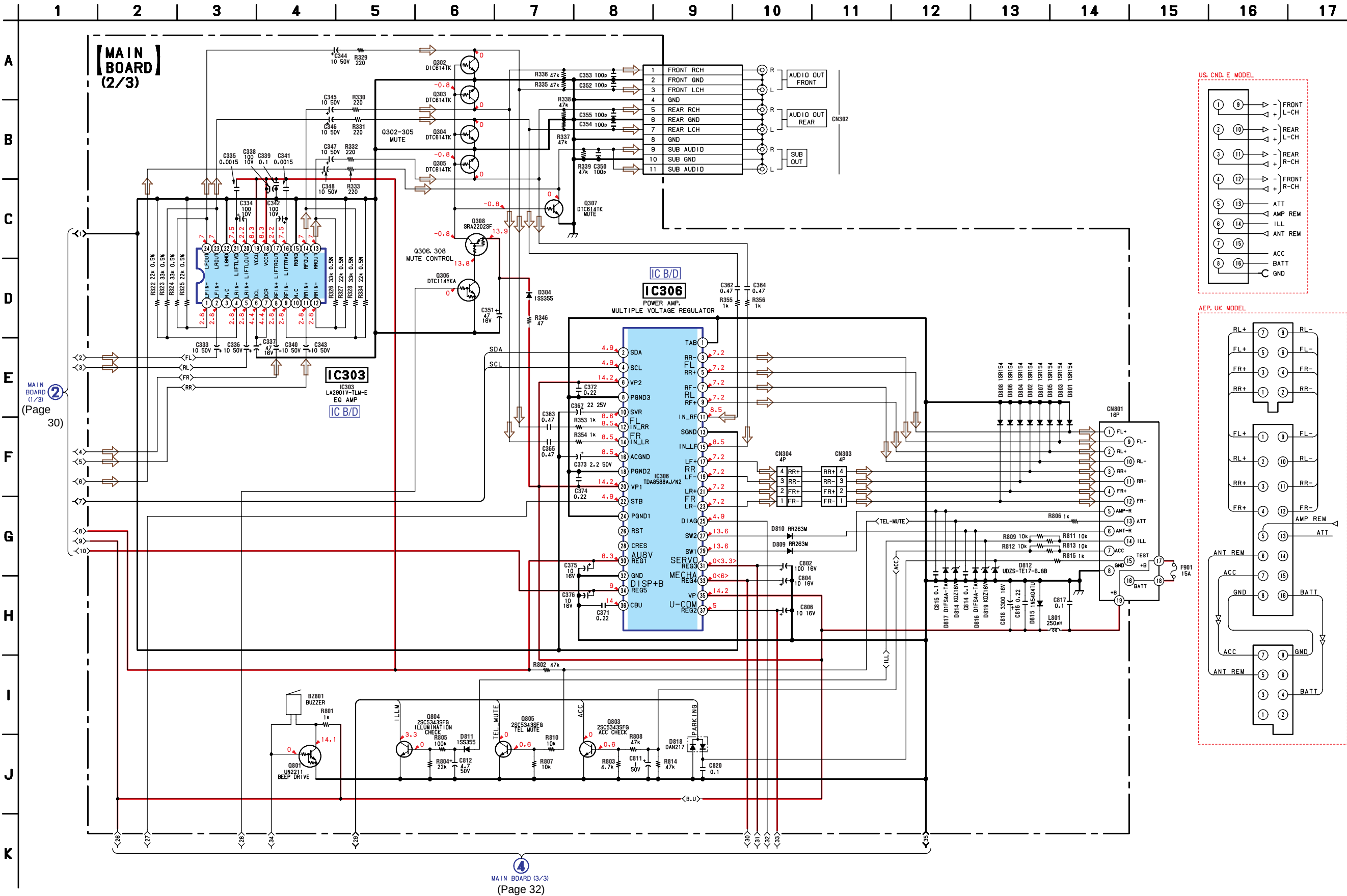


• Refer to page 23 for Waveforms.

3-12. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) — • Refer to page 36 for IC Block Diagrams.



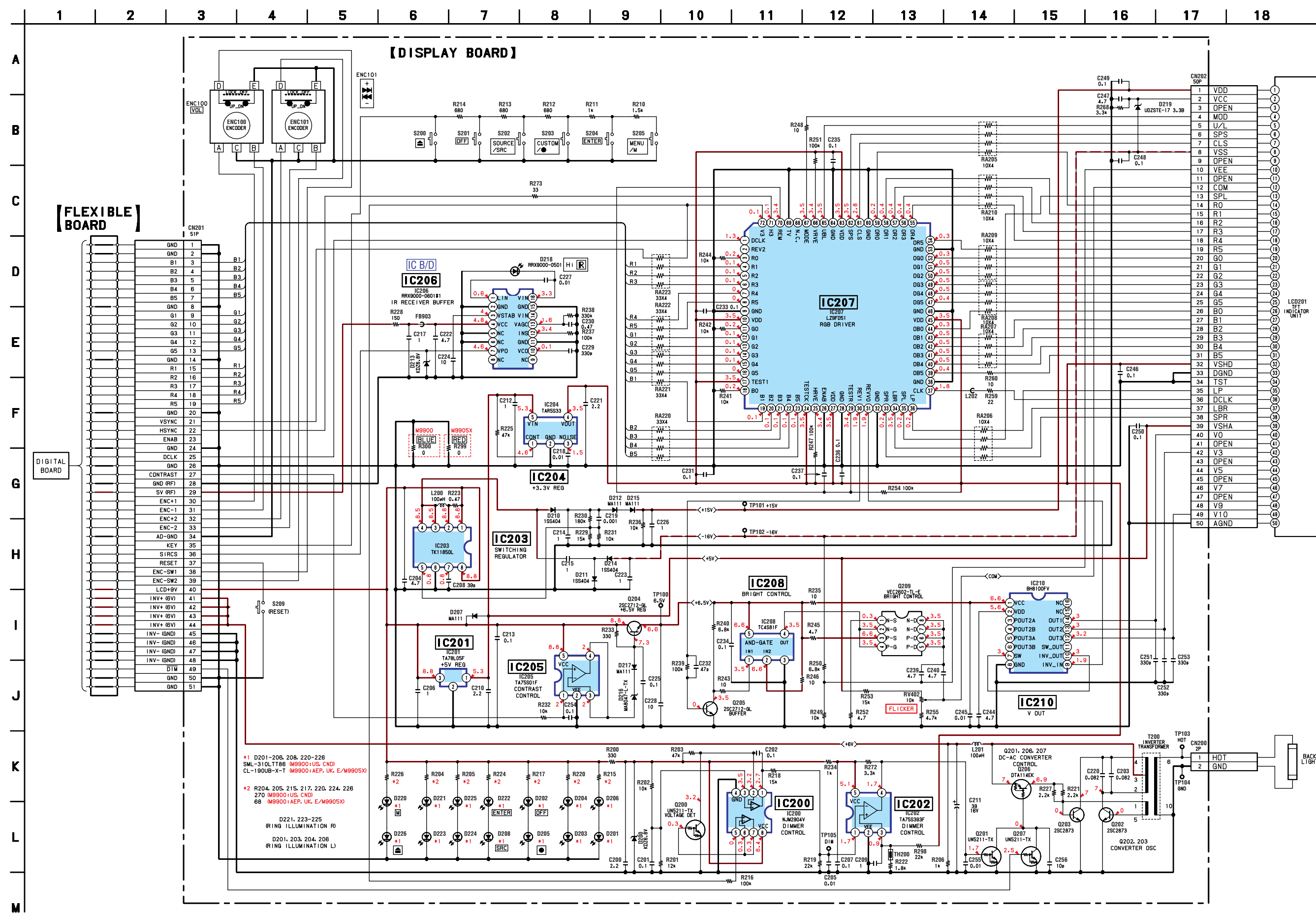
3-13. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) — • Refer to page 38 for IC Block Diagrams.



- Refer to page 39 for IC Block Diagrams.



3-15. SCHEMATIC DIAGRAM — DISPLAY SECTION — • Refer to page 40 for IC Block Diagram.

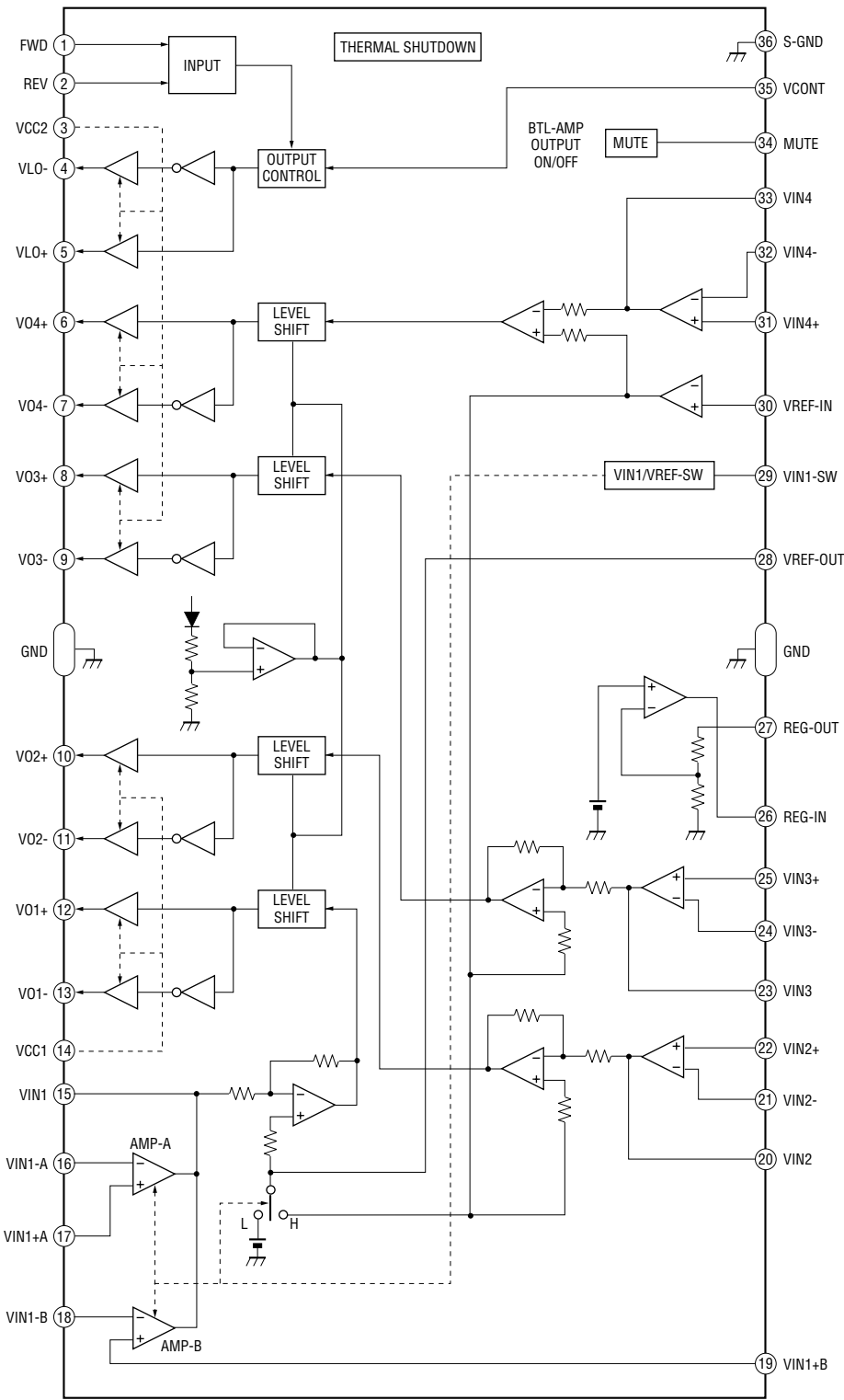




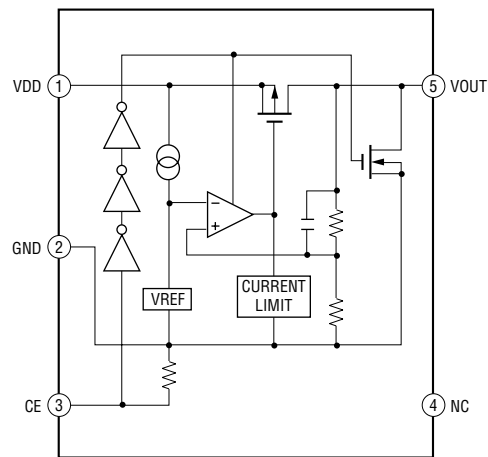
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D200	G-10	D206	C-2	D213	F-3	D219	F-4	D225	B-14	IC203	H-6	IC210	G-7	Q204	H-10
D201	C-3	D207	H-10	D214	G-6	D220	D-14	D226	B-14	IC204	H-9			Q205	G-6
D202	B-3	D208	A-2	D215	H-6	D221	C-14			IC205	H-12	Q200	H-10	Q206	G-10
D203	C-1	D210	H-6	D216	H-12	D222	B-13	IC200	H-10	IC206	F-3	Q201	G-9	Q207	H-9
D204	B-2	D211	G-6	D217	H-11	D223	C-13	IC201	H-10	IC207	G-3	Q202	G-8	Q209	H-7
D205	D-2	D212	H-6	D218	E-2	D224	C-14	IC202	G-10	IC208	H-7	Q203	G-9		

3-17. IC BLOCK DIAGRAMS

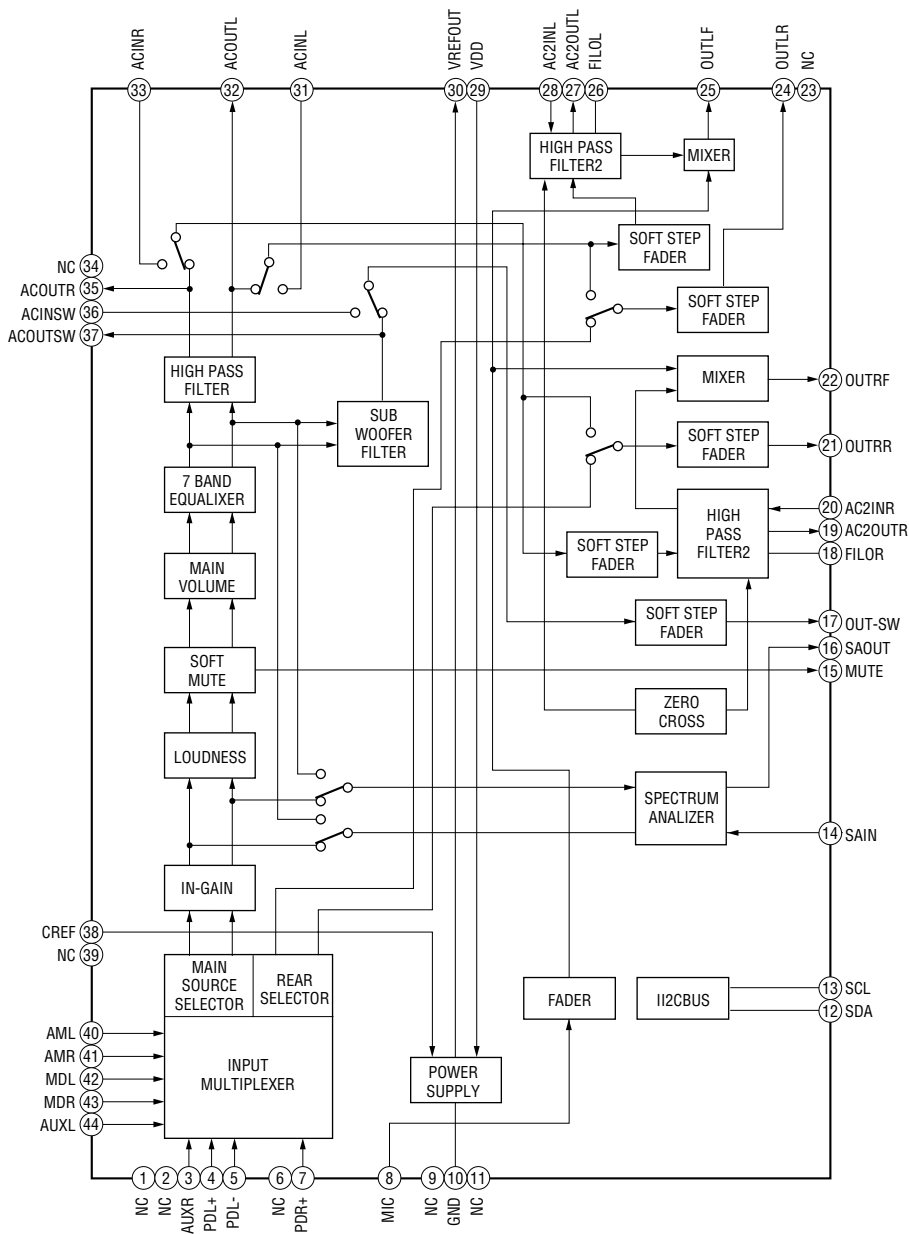
IC1 LA6560-TE-L-E (SERVO Board (2/2))



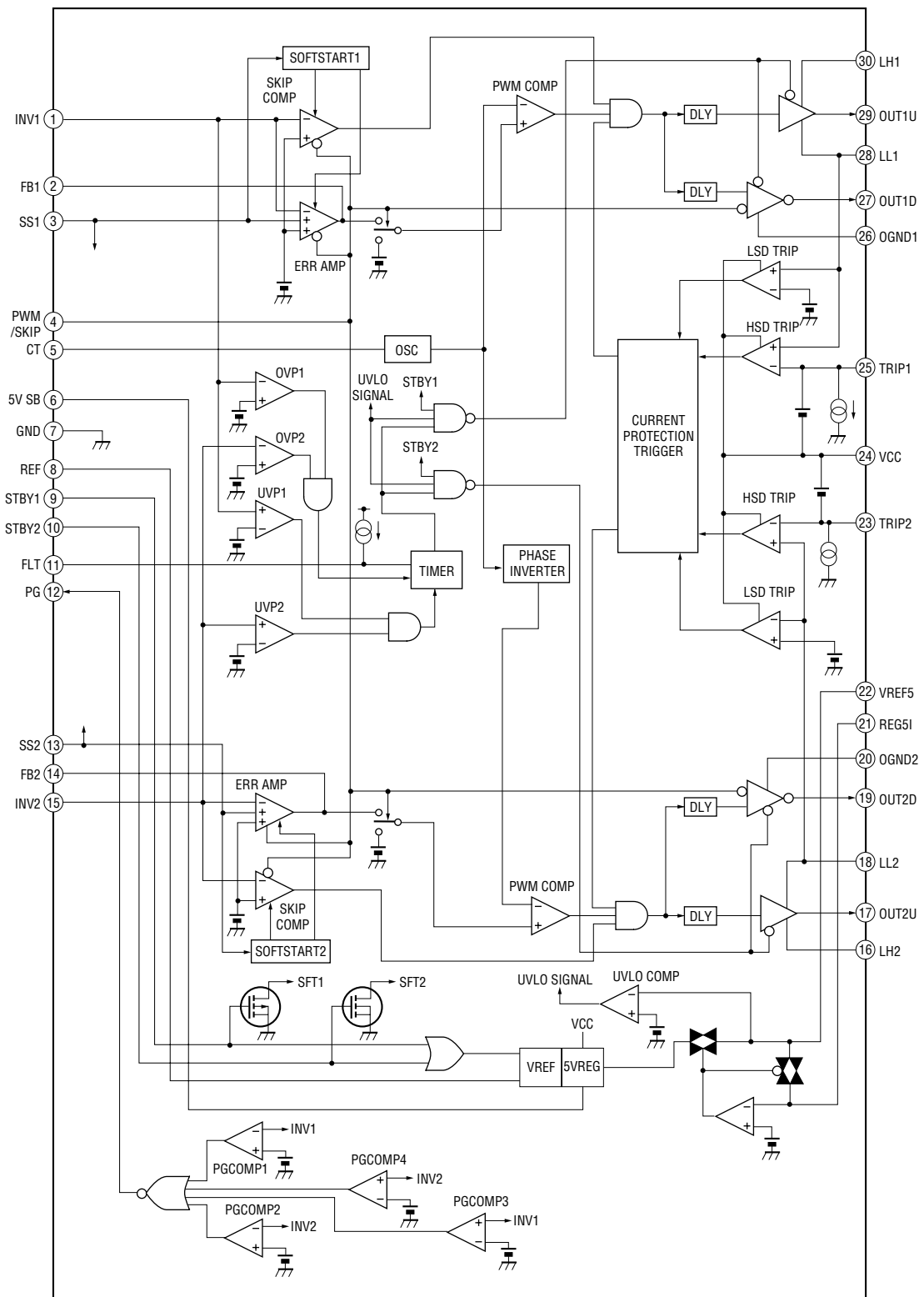
IC7 R1114N151D-TR-FA (SERVO Board (2/2))



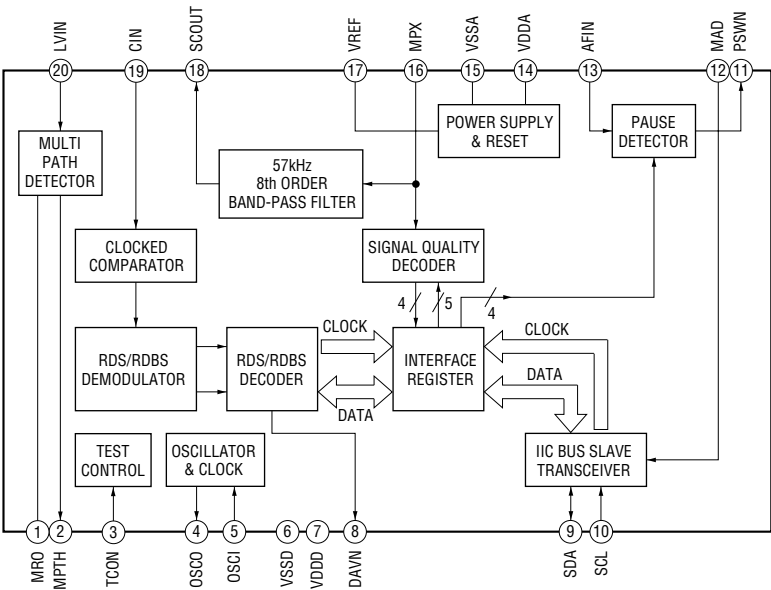
IC301 TDA7416 (MAIN Board (1/3))



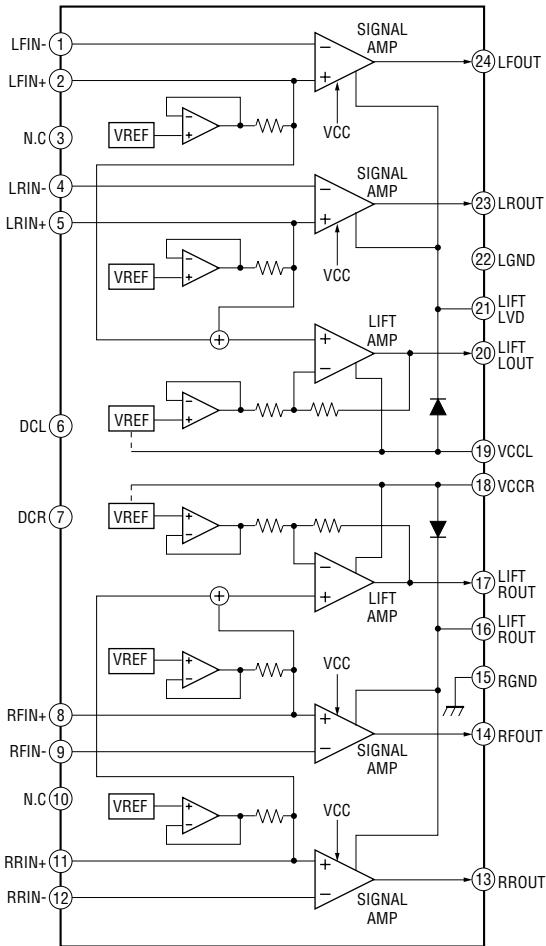
IC101 TPS5120DBTR (MAIN Board (1/3))



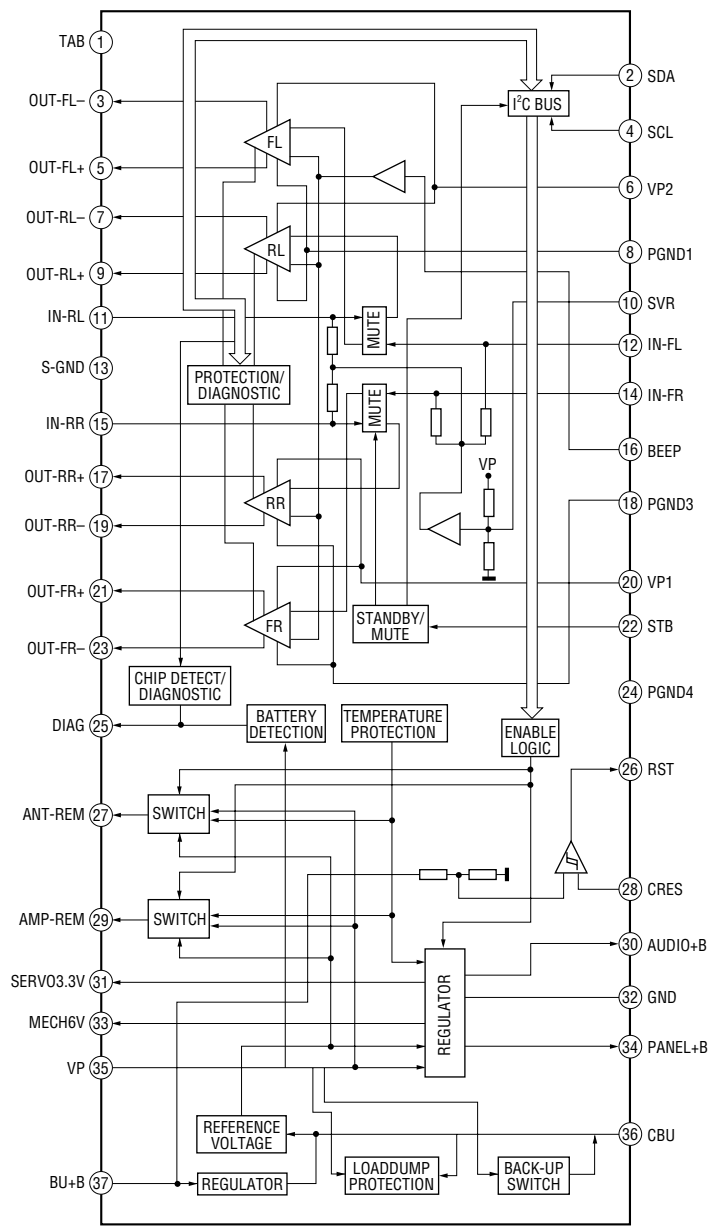
IC201 SAA6588T/V2-518 (MAIN Board (1/3))
(AEP, UK, E Model only)



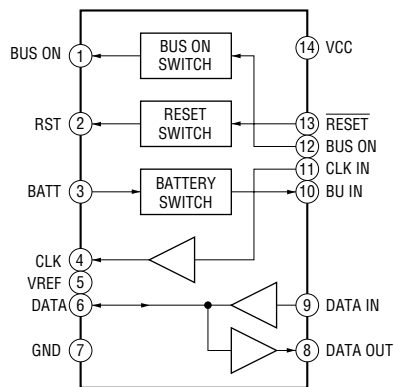
IC303 LA2901V-TLM-E (MAIN Board (2/3))



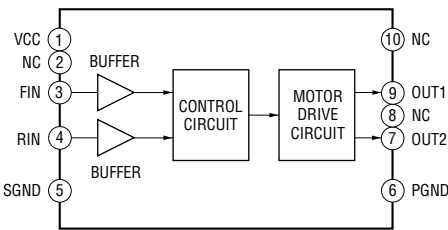
IC306 TDA8588AJ/N2 (MAIN Board (2/3))



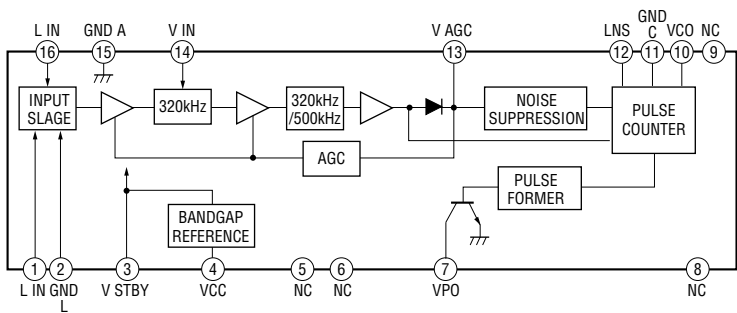
IC601 BA8271F-E2 (MAIN Board (3/3))



IC702 LB1930M-TLM-E
(MAIN Board (3/3))



IC206 RRX9000-0601#1 (DISPLAY Board)



SECTION 4
EXPLODED VIEWS

NOTE:

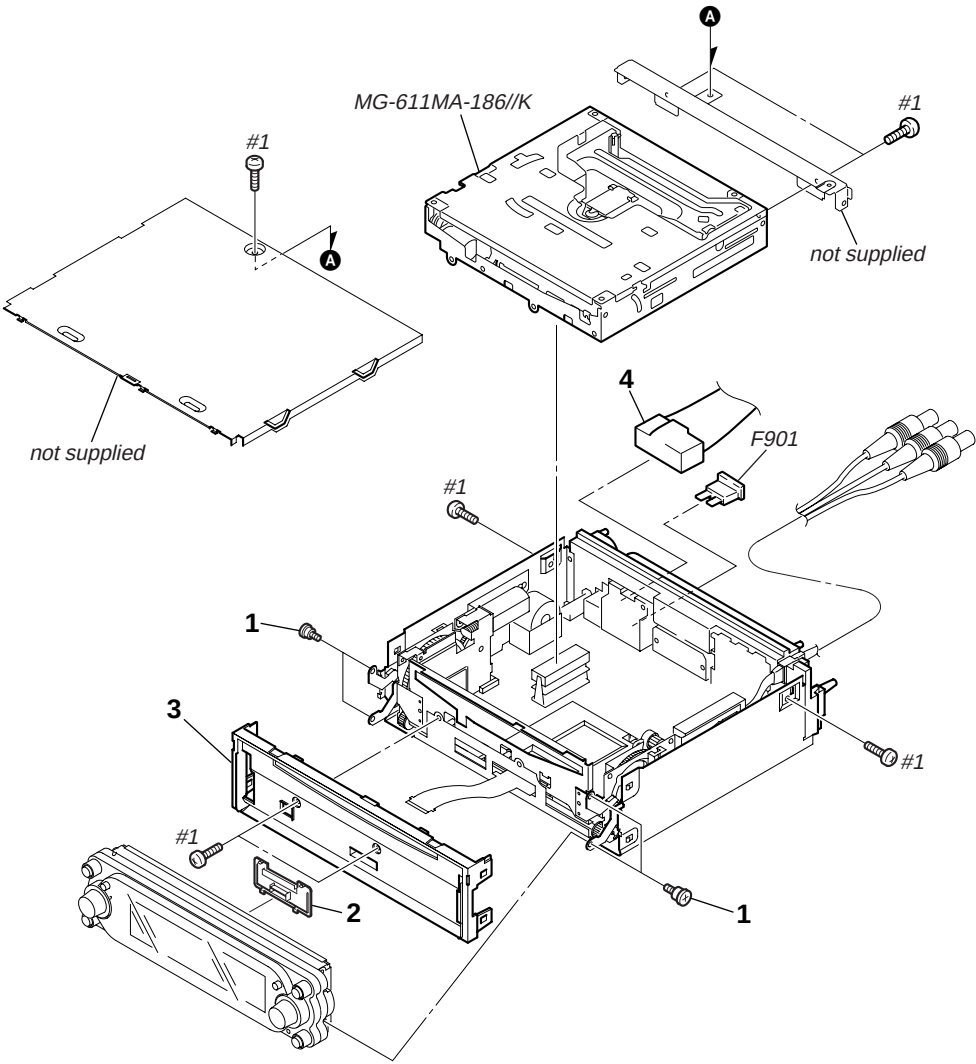
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference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

- Color Indication of Appearance Parts
Example :
 ↑ ↑
 Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.
- Abbreviation
 CND : Canadian model

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

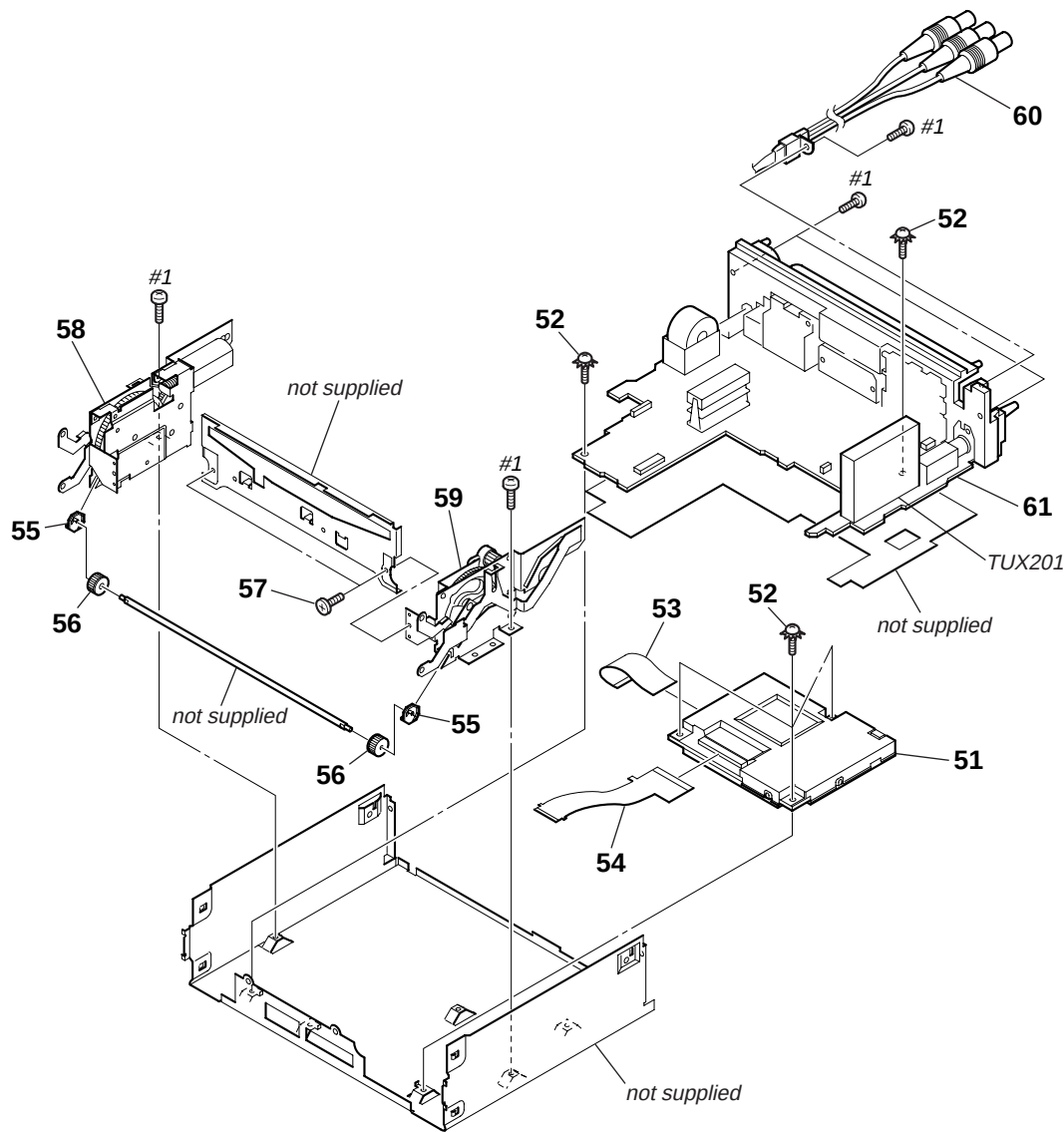
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-1. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-265-290-01	SCREW (PANEL F)		4	A-3373-132-A	CORD ASSY (POWER) (US,CND,E)	
2	3-241-832-01	COVER (FPC)		4	A-3373-146-A	CORD ASSY (POWER) (AEP,UK)	
3	X-3384-737-1	PANEL ASSY, SUB (M9900:US,CND)		F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
3	X-3384-915-1	PANEL ASSY, SUB (AEP,UK,E)		#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
3	X-3384-918-1	PANEL ASSY, SUB (M9905X)					

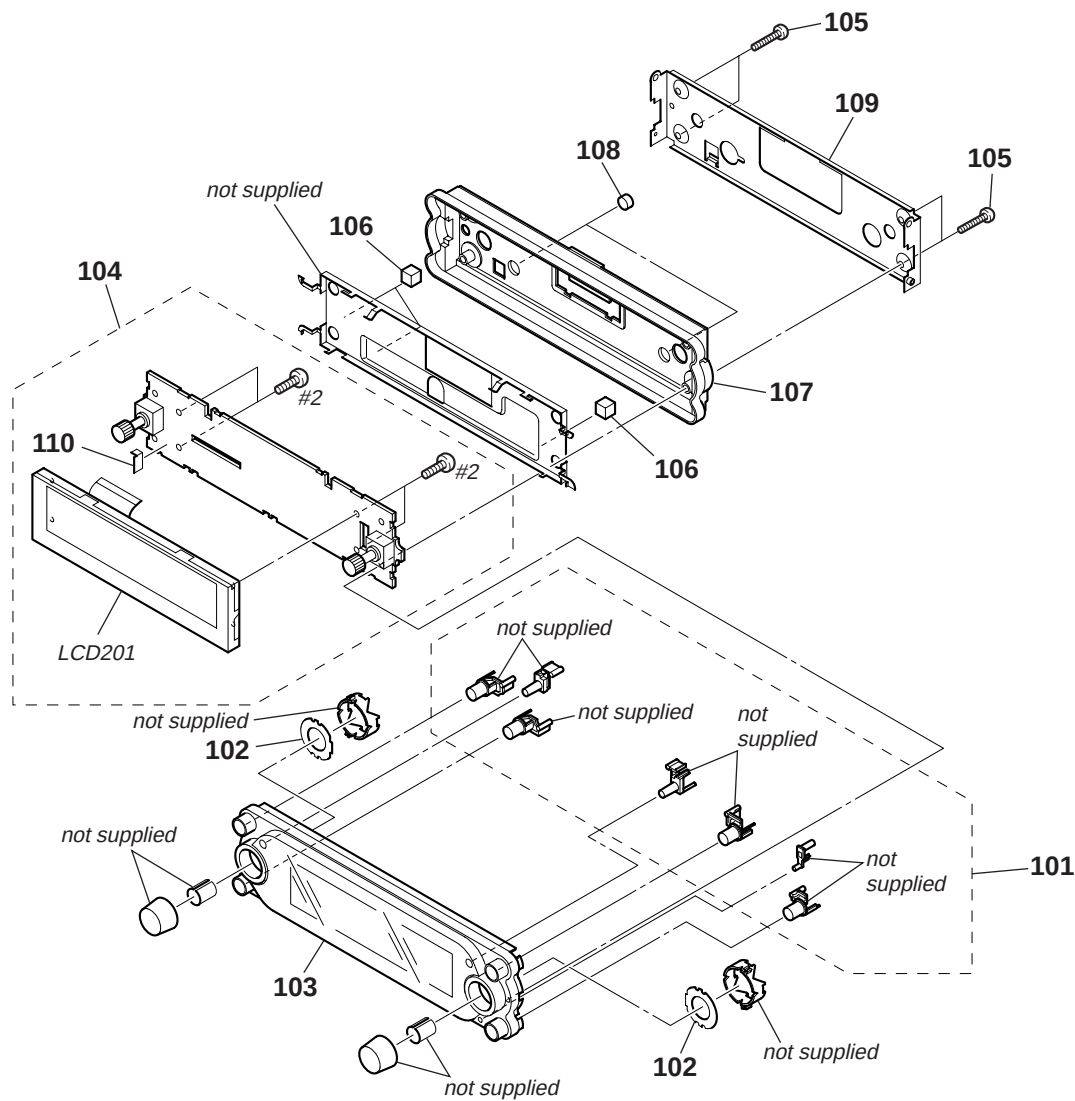
4-2. MAIN BOARD SECTION



Ref. No.	Part No.	Description	Remark
51	A-3283-643-A	DIGITAL BOARD, COMPLETE	
52	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
53	1-828-542-11	CABLE, FLAT 30P	
54	1-861-994-11	FLEXIBLE BOARD	
55	3-262-629-01	GUIDE (DRIVE SHAFT)	
56	3-262-621-01	GEAR (DRIVE SHAFT)	
57	2-641-447-11	SCREW (2.6X6), +STP	
58	X-3385-006-1	DRIVING (F) ASSY	

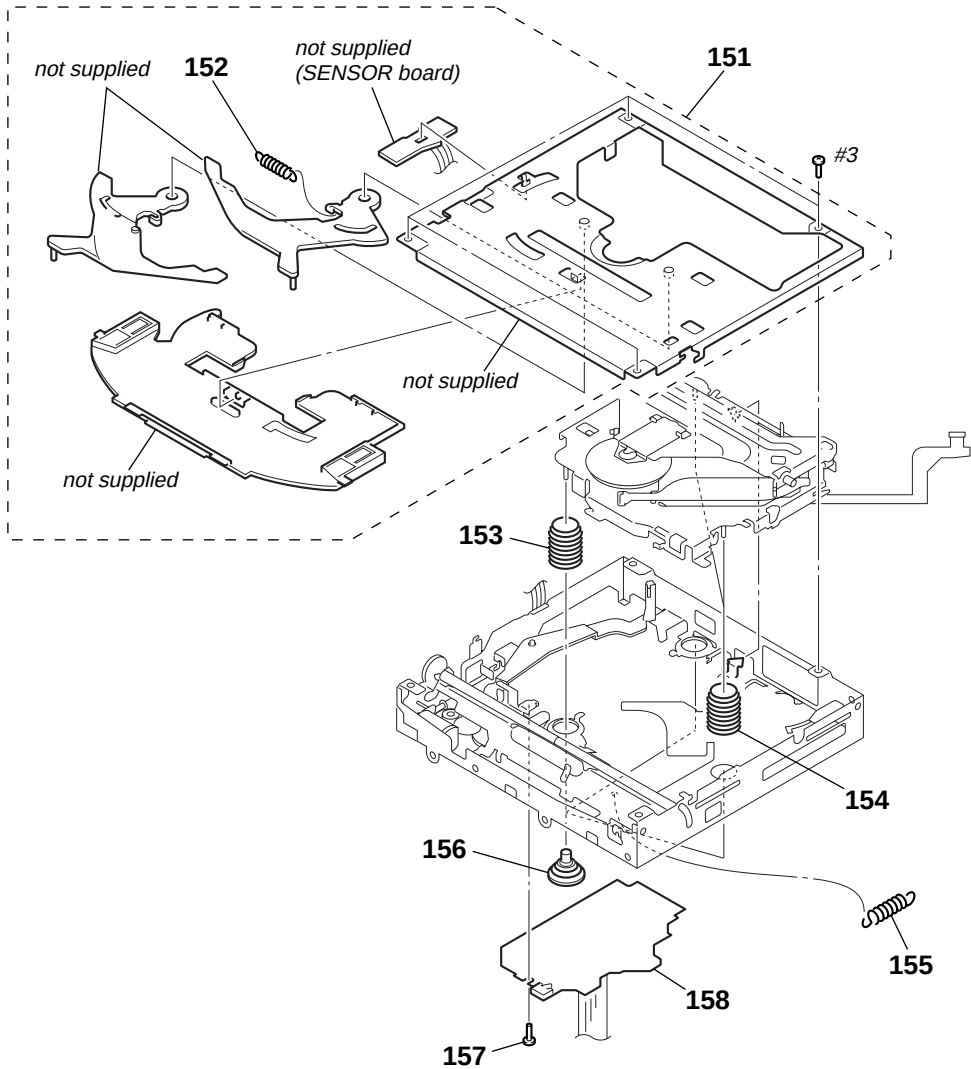
Ref. No.	Part No.	Description	Remark
59	X-3385-007-1	DRIVING (F) ASSY	
60	1-828-508-11	CORD (WITH CONNECTOR) (BUS AUDIO IN/ AUX IN,VIDEO IN)	
61	A-3283-645-A	MAIN BOARD, COMPLETE (US,CND)	
61	A-3283-655-A	MAIN BOARD, COMPLETE (AEP,UK,E)	
TUX201	A-3220-961-A	TUNER UNIT (TUX-032//Q3)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	

4-3. FRONT PANEL SECTION



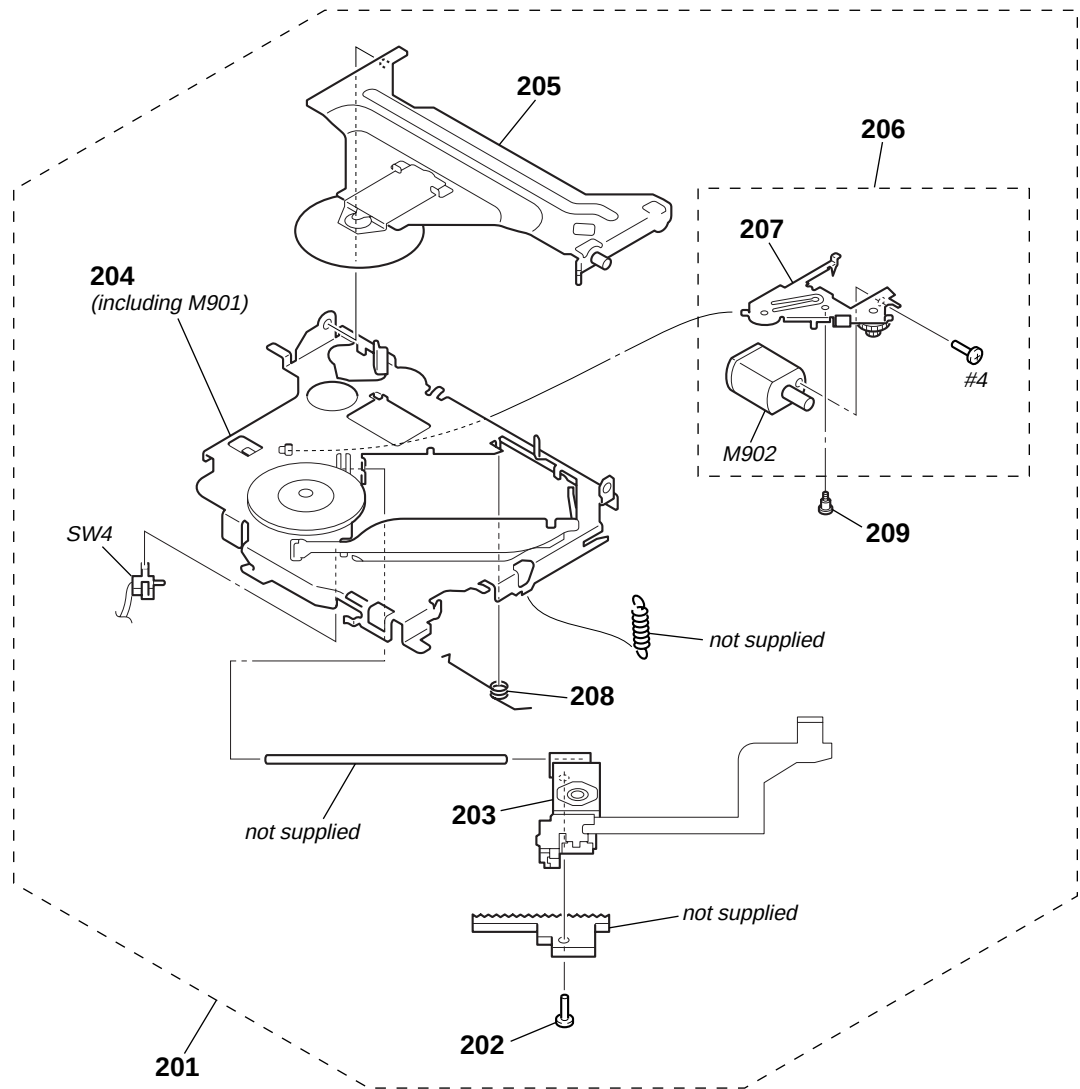
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-3384-960-1	BUTTON ASSY (S) (EXCEPT E)		105	3-564-708-91	SCREW (+P 2X14) (TYPE2)	
102	3-264-027-01	ILLUMINATOR (KNOB)		106	3-265-292-01	SHEET (DISPLAY), ELECTROSTATIC	
103	X-3384-959-1	PANEL (SV) ASSY, FRONT (M9900:US,CND)		107	3-264-012-01	PANEL, FRONT BACK	
103	X-3384-975-1	PANEL (SV) ASSY, FRONT (M9905X)		108	3-241-849-11	CUSHION (FB)	
103	X-3384-976-1	PANEL (SV) ASSY, FRONT (AEP,UK)		109	X-3384-735-1	PANEL (BASE) ASSY	
104	A-3283-648-A	DISPLAY BOARD, COMPLETE (M9900:US,CND)		110	3-264-030-01	PLATE (IR), SHIELD	
104	A-3283-652-A	DISPLAY BOARD, COMPLETE (M9900:AEP,UK,E/M9905X)		LCD201	1-477-252-11	INDICATOR UNIT	
				#2	7-685-132-19	SCREW +P 2.6X5 TYPE2 NON-SLIT	

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



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	A-3372-455-A	CHASSIS (T) SUB ASSY		156	3-253-748-01	DAMPER (S)	
152	3-253-729-01	SPRING (LTR), TENSION COIL		157	3-352-758-31	SCREW (M1.7), TOOTHED LOCK	
153	3-253-746-13	SPRING (DAMPER), COMPRESSION		158	A-3283-359-A	SERVO BOARD, COMPLETE	
154	3-253-746-03	SPRING (DAMPER), COMPRESSION		#3	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	
155	3-253-695-01	SPRING (KF), TENSION COIL					

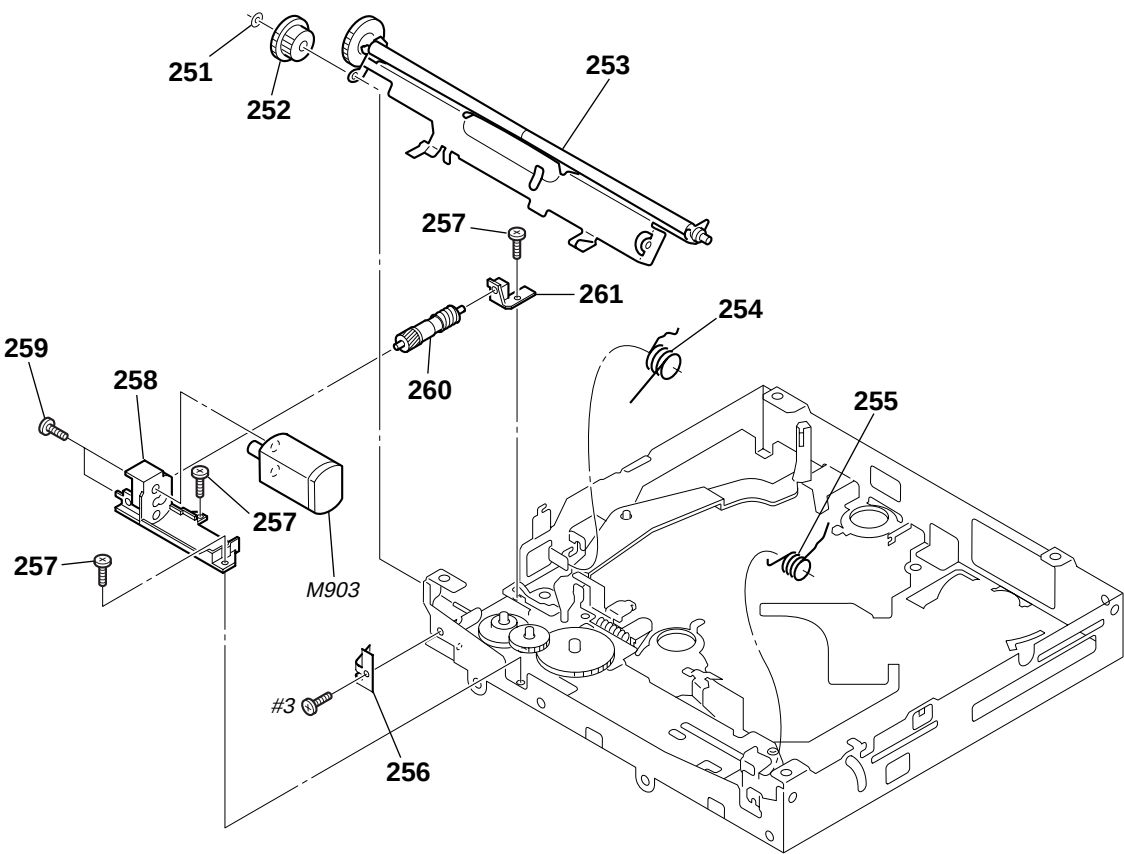
4-5. CD MECHANISM SECTION (2)
(MG-611MA-186//K)



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

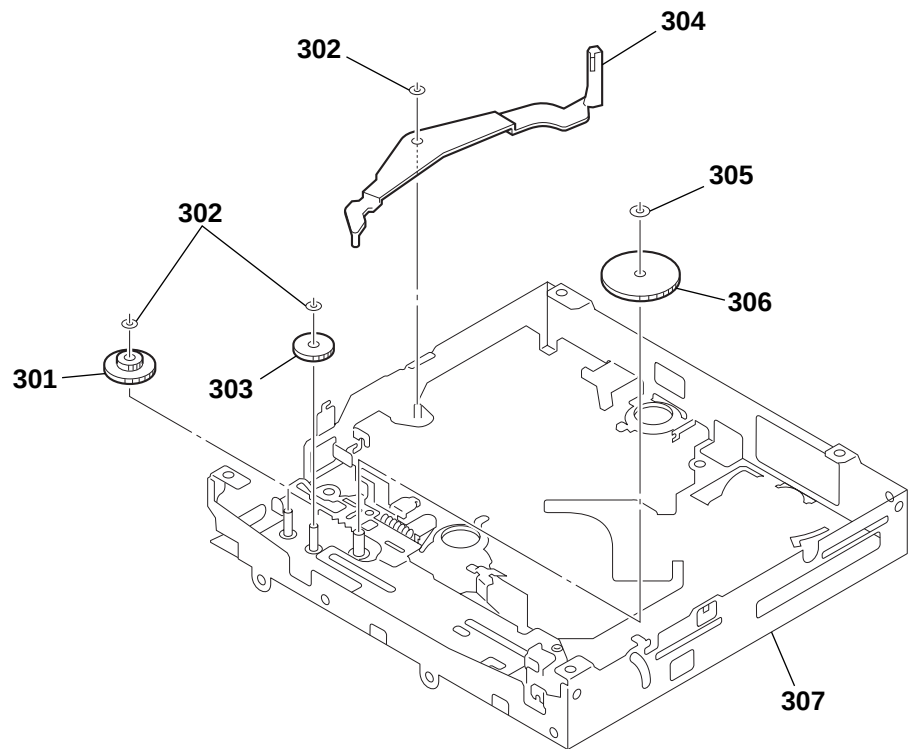
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	A-3337-637-A	CHASSIS (OP) COMPLETE ASSY		207	X-3383-454-3	LEVER (SL) ASSY	
202	3-316-938-91	SCREW (B1.4X5), TAPPING		208	3-261-959-02	SPRING (SL), TORSION	
$\triangle$ 203	8-820-207-02	OPTICAL PICK-UP (KSS1000E/K1RP)		209	3-264-165-02	SCREW	
204	A-3337-640-A	CHASSIS (OP) SUB ASSY (including M901)		M902	A-3337-638-A	MOTOR ASSY, SL (SLED)	
205	A-3337-641-A	ARM SUB ASSY, CHUCKING		SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)	
206	A-3337-639-A	LEVER (SL) SUB ASSY		#4	7-627-850-77	SCREW, PRECISION +P 1.4X1.8	

4-6. CD MECHANISM SECTION (3)
(MG-611MA-186//K)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	3-262-755-01	WASHER (1.1-2.5)		258	3-259-467-01	BRACKET (LEM)	
252	3-259-024-01	WHEEL (RA), WORM		259	3-345-648-91	SCREW (M1.4), TOOTHED LOCK	
253	A-3337-633-A	ARM ASSY, ROLLER		260	A-3372-456-A	WORM (LEB) ASSY	
254	3-259-455-02	SPRING (RAL)		261	3-259-468-01	BEARING (LEB)	
255	3-253-713-01	SPRING (RAR)		M903	A-3372-454-A	MOTOR ASSY, LE (LOADING)	
256	3-259-469-01	SPRING (LE), LEAF		#3	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	
257	2-134-636-31	SCREW (M1.7X2.5)					

4-7. CD MECHANISM SECTION (4)
(MG-611MA-186//K)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	3-259-429-01	WHEEL (LE), WORM		305	3-899-829-01	WASHER (SLIT)	
302	3-344-223-01	WASHER		306	3-259-032-01	GEAR (LE2)	
303	3-259-470-01	GEAR (LE1)		307	A-3372-453-A	CHASSIS (M) BLOCK ASSY	
304	3-253-755-02	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

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

- 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
• Abbreviation
CND : Canadian model

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

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

Ref. No.	Part No.	Description	Remark
	A-3283-643-A	DIGITAL BOARD, COMPLETE (When repairing, the complete DIGITAL board should be replaced since any parts in the DIGITAL board cannot be repaired.)	

	A-3283-648-A	DISPLAY BOARD, COMPLETE (M9900:US,CND)	
	A-3283-652-A	DISPLAY BOARD, COMPLETE (M9900:AEP,UK,E/M9905X)	

	3-264-030-01	PLATE (IR), SHIELD	
	3-264-910-01	SHEET (TFT)	
	7-685-132-19	SCREW +P 2.6X5 TYPE2 NON-SLIT	
< CAPACITOR >			
C200	1-125-889-91	CERAMIC CHIP 2.2uF	10% 10V
C201	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C202	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C203	1-100-009-11	FILM CHIP 0.082uF	5% 50V
C204	1-127-820-11	CERAMIC CHIP 4.7uF	10% 16V
C205	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C206	1-164-346-11	CERAMIC CHIP 1uF	10% 16V
C207	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C208	1-162-922-11	CERAMIC CHIP 39PF	5% 50V
C209	1-164-346-11	CERAMIC CHIP 1uF	10% 16V
C210	1-125-889-91	CERAMIC CHIP 2.2uF	10% 10V
C211	1-135-346-21	ELECT CHIP 39uF	20% 16V
C212	1-125-837-91	CERAMIC CHIP 1uF	10% 6.3V
C213	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C214	1-137-988-91	CERAMIC CHIP 1uF	10% 35V
C215	1-137-988-91	CERAMIC CHIP 1uF	10% 35V
C217	1-125-837-91	CERAMIC CHIP 1uF	10% 6.3V
C218	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C219	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C220	1-100-009-11	FILM CHIP 0.082uF	5% 50V
C221	1-125-889-91	CERAMIC CHIP 2.2uF	10% 10V
C222	1-127-760-11	CERAMIC CHIP 4.7uF	10% 6.3V
C223	1-137-988-91	CERAMIC CHIP 1uF	10% 35V
C224	1-127-692-11	CERAMIC CHIP 10uF	10% 16V
C225	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C226	1-137-988-91	CERAMIC CHIP 1uF	10% 35V
C227	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C228	1-127-692-11	CERAMIC CHIP 10uF	10% 16V
C229	1-162-959-11	CERAMIC CHIP 330PF	5% 50V

Ref. No.	Part No.	Description	Remark
C230	1-117-863-11	CERAMIC CHIP 0.47uF	10% 6.3V
C231	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C232	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
C233	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C234	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C235	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C236	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C237	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C239	1-127-738-91	CERAMIC CHIP 4.7uF	10% 25V
C240	1-127-820-11	CERAMIC CHIP 4.7uF	10% 16V
C244	1-115-566-11	CERAMIC CHIP 4.7uF	10% 10V
C245	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C246	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C247	1-127-820-11	CERAMIC CHIP 4.7uF	10% 16V
C248	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C249	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C250	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C251	1-162-961-11	CERAMIC CHIP 330PF	10% 50V
C252	1-162-961-11	CERAMIC CHIP 330PF	10% 50V
C253	1-162-961-11	CERAMIC CHIP 330PF	10% 50V
C254	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C255	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C256	1-162-915-11	CERAMIC CHIP 10PF	0.5PF 50V
< CONNECTOR >			
* CN200	1-766-311-21	PIN, CONNECTOR (PC BOARD) 2P	
CN201	1-816-467-11	CONNECTOR, FPC (ZIF) 51P	
CN202	1-816-485-21	CONNECTOR, FFC/FPC (ZIF) 50P	
< DIODE >			
D200	8-719-977-12	DIODE DTZ6.8B	
D201	8-719-064-07	LED SML-310LT-T86	(RING ILLUMINATION L) (M9900:US,CND)
D201	8-719-080-04	LED CL-190UB-X-T (RING ILLUMINATION L)	(M9900:AEP,UK,E/M9905X)
D202	8-719-064-07	LED SML-310LT-T86 (OFF) (M9900:US,CND)	
D202	8-719-080-04	LED CL-190UB-X-T (OFF)	(M9900:AEP,UK,E/M9905X)
D203	8-719-064-07	LED SML-310LT-T86	(RING ILLUMINATION L) (M9900:US,CND)
D203	8-719-080-04	LED CL-190UB-X-T (RING ILLUMINATION L)	(M9900:AEP,UK,E/M9905X)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D204	8-719-064-07	LED SML-310LT-T86 (RING ILLUMINATION L) (M9900:US,CND)				< FERRITE BEAD >	
D204	8-719-080-04	LED CL-190UB-X-T (RING ILLUMINATION L) (M9900:AEP,UK,E/M9905X)		FB903	1-500-329-21	INDUCTOR, FERRITE BEAD	
D205	8-719-064-07	LED SML-310LT-T86 (●) (M9900:US,CND)				< IC >	
D205	8-719-080-04	LED CL-190UB-X-T (●) (M9900:AEP,UK,E/M9905X)		IC200	8-759-337-40	IC NJM2904V(Te2)	
D206	8-719-064-07	LED SML-310LT-T86 (RING ILLUMINATION L) (M9900:US,CND)		IC201	8-759-234-08	IC TA78L05F	
				IC202	8-759-075-70	IC TA75S393F	
				IC203	6-702-207-01	IC TK11850L	
				IC204	8-759-695-94	IC TAR5S33(Te85R)	
D206	8-719-080-04	LED CL-190UB-X-T (RING ILLUMINATION L) (M9900:AEP,UK,E/M9905X)		IC205	8-759-075-66	IC TA75S01F	
D207	8-719-404-50	DIODE MA111-TX		IC206	8-759-830-18	IC RRX9000-0601#1	
D208	8-719-064-07	LED SML-310LT-T86 (SRC) (M9900:US,CND)		IC207	6-702-206-01	IC LZ9FD51	
D208	8-719-080-04	LED CL-190UB-X-T (SRC) (M9900:AEP,UK,E/M9905X)		IC208	8-759-209-97	IC TC4S81F	
D210	6-500-219-01	DIODE 1SS404(TPH3)		IC210	6-702-208-01	IC BH8100FV	
D211	6-500-219-01	DIODE 1SS404(TPH3)				< COIL >	
D212	8-719-404-50	DIODE MA111-TX		L200	1-428-971-11	INDUCTOR 100uH	
D213	8-719-977-12	DIODE DTZ6.8B		L201	1-406-580-11	INDUCTOR 100uH	
D214	6-500-219-01	DIODE 1SS404(TPH3)		L202	1-500-284-21	INDUCTOR, FERRITE BEAD	
D215	8-719-404-50	DIODE MA111-TX				< INDICATOR UNIT >	
D216	8-719-422-29	DIODE MA8047-L-TX		LCD201	1-477-252-11	INDICATOR UNIT	
D217	8-719-404-50	DIODE MA111-TX				< TRANSISTOR >	
D218	8-719-083-14	LED RRX9000-0501 (Hi IR)		Q200	8-729-015-76	TRANSISTOR UN5211	
D219	6-500-697-01	DIODE UDZS-TE17-3.3B		Q201	8-729-015-76	TRANSISTOR UN5211	
D220	8-719-064-07	LED SML-310LT-T86 (M) (M9900:US,CND)		Q202	8-729-807-51	TRANSISTOR 2SD1623-S	
D220	8-719-080-04	LED CL-190UB-X-T (M) (M9900:AEP,UK,E/M9905X)		Q203	8-729-807-51	TRANSISTOR 2SD1623-S	
D221	8-719-064-07	LED SML-310LT-T86 (RING ILLUMINATION R) (M9900:US,CND)		Q204	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
D221	8-719-080-04	LED CL-190UB-X-T (RING ILLUMINATION R) (M9900:AEP,UK,E/M9905X)		Q205	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
D222	8-719-064-07	LED SML-310LT-T86 (ENTER) (M9900:US,CND)		Q206	8-729-901-04	TRANSISTOR DTA114EK	
D222	8-719-080-04	LED CL-190UB-X-T (ENTER) (M9900:AEP,UK,E/M9905X)		Q207	8-729-015-76	TRANSISTOR UN5211	
				Q209	6-550-854-01	FET VEC2602-TL-E	
						< RESISTOR >	
D223	8-719-064-07	LED SML-310LT-T86 (RING ILLUMINATION R) (M9900:US,CND)		R200	1-216-815-11	METAL CHIP 330 5% 1/10W	
D223	8-719-080-04	LED CL-190UB-X-T (RING ILLUMINATION R) (M9900:AEP,UK,E/M9905X)		R201	1-218-966-11	RES-CHIP 12K 5% 1/16W	
D224	8-719-064-07	LED SML-310LT-T86 (RING ILLUMINATION R) (M9900:US,CND)		R202	1-218-965-11	RES-CHIP 10K 5% 1/16W	
D224	8-719-080-04	LED CL-190UB-X-T (RING ILLUMINATION R) (M9900:AEP,UK,E/M9905X)		R203	1-218-973-11	RES-CHIP 47K 5% 1/16W	
D225	8-719-064-07	LED SML-310LT-T86 (RING ILLUMINATION R) (M9900:US,CND)		R204	1-216-021-00	RES-CHIP 68 5% 1/10W (M9900:AEP,UK,E/M9905X)	
D225	8-719-080-04	LED CL-190UB-X-T (RING ILLUMINATION R) (M9900:AEP,UK,E/M9905X)		R204	1-216-035-00	RES-CHIP 270 5% 1/10W (M9900:US,CND)	
D226	8-719-064-07	LED SML-310LT-T86 (▲) (M9900:US,CND)		R205	1-216-021-00	RES-CHIP 68 5% 1/10W (M9900:AEP,UK,E/M9905X)	
D226	8-719-080-04	LED CL-190UB-X-T (▲) (M9900:AEP,UK,E/M9905X)		R205	1-216-035-00	RES-CHIP 270 5% 1/10W (M9900:US,CND)	
				R206	1-216-821-11	METAL CHIP 1K 5% 1/10W	
				R210	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
				R211	1-216-821-11	METAL CHIP 1K 5% 1/10W	
				R212	1-216-819-11	METAL CHIP 680 5% 1/10W	
				R213	1-216-819-11	METAL CHIP 680 5% 1/10W	
				R214	1-216-819-11	METAL CHIP 680 5% 1/10W	
				R215	1-216-021-00	RES-CHIP 68 5% 1/10W (M9900:AEP,UK,E/M9905X)	
						< ROTARY ENCODER >	
ENC100	1-478-594-11	ENCODER (ROTARY) (VOL)		R215	1-216-035-00	RES-CHIP 270 5% 1/10W (M9900:US,CND)	
ENC101	1-478-594-11	ENCODER (ROTARY) (+ ▶▶▶ I◀◀ -)		R216	1-218-977-11	RES-CHIP 100K 5% 1/16W	

CDX-M9900/M9905X

DISPLAY

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark			
R217	1-216-021-00	RES-CHIP	68	5%	1/10W (M9900:AEP,UK,E/M9905X)			< NETWORK RESISTOR >				
R217	1-216-035-00	RES-CHIP	270	5%	1/10W (M9900:US,CND)	RA205	1-234-369-21	RES, NETWORK 10X4 (1005)				
R218	1-218-967-11	RES-CHIP	15K	5%	1/16W	RA206	1-234-369-21	RES, NETWORK 10X4 (1005)				
R219	1-218-969-11	RES-CHIP	22K	5%	1/16W	RA207	1-234-369-21	RES, NETWORK 10X4 (1005)				
R220	1-216-021-00	RES-CHIP	68	5%	1/10W (M9900:AEP,UK,E/M9905X)	RA208	1-234-369-21	RES, NETWORK 10X4 (1005)				
						RA209	1-234-369-21	RES, NETWORK 10X4 (1005)				
R220	1-216-035-00	RES-CHIP	270	5%	1/10W (M9900:US,CND)	RA210	1-234-369-21	RES, NETWORK 10X4 (1005)				
						RA220	1-242-963-21	RES, NETWORK 33X4 (1005)				
R221	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	RA221	1-242-963-21	RES, NETWORK 33X4 (1005)				
R222	1-218-956-11	RES-CHIP	1.8K	5%	1/16W	RA222	1-242-963-21	RES, NETWORK 33X4 (1005)				
R223	1-243-640-91	RES-CHIP	0.47	1%	1/8W	RA223	1-242-963-21	RES, NETWORK 33X4 (1005)				
R224	1-216-021-00	RES-CHIP	68	5%	1/10W (M9900:AEP,UK,E/M9905X)			< CERMET RESISTOR >				
						RV402	1-225-901-21	RES, ADJ, CERMET (3 TYPE) 10K				
R224	1-216-035-00	RES-CHIP	270	5%	1/10W (M9900:US,CND)			< SWITCH >				
R225	1-216-841-11	METAL CHIP	47K	5%	1/10W							
R226	1-216-021-00	RES-CHIP	68	5%	1/10W (M9900:AEP,UK,E/M9905X)	S200	1-771-884-31	SWITCH, TACTILE (▲)				
						S201	1-771-884-31	SWITCH, TACTILE (OFF)				
R226	1-216-035-00	RES-CHIP	270	5%	1/10W (M9900:US,CND)	S202	1-771-884-31	SWITCH, TACTILE (SOURCE/SRC)				
						S203	1-771-884-31	SWITCH, TACTILE (CUSTOM/●)				
R227	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	S204	1-771-884-31	SWITCH, TACTILE (ENTER)				
R228	1-216-811-11	METAL CHIP	150	5%	1/10W	S205	1-771-884-31	SWITCH, TACTILE (MENU/M)				
R229	1-216-835-11	METAL CHIP	15K	5%	1/10W	S209	1-786-653-11	SWITCH, TACTILE (RESET)				
R230	1-216-848-11	METAL CHIP	180K	5%	1/10W			< TRANSFORMER >				
R231	1-216-833-11	METAL CHIP	10K	5%	1/10W							
R232	1-216-833-11	METAL CHIP	10K	5%	1/10W	T200	1-443-247-11	TRANSFORMER, INVERTER				
								< THERMISTOR >				
R233	1-216-815-11	METAL CHIP	330	5%	1/10W	TH200	1-810-812-21	THERMISTOR, NTC (1608)				
R234	1-218-953-11	RES-CHIP	1K	5%	1/16W	*****						
R235	1-216-797-11	METAL CHIP	10	5%	1/10W							
R236	1-216-833-11	METAL CHIP	10K	5%	1/10W		A-3283-645-A	MAIN BOARD, COMPLETE (US,CND)				
R237	1-216-845-11	METAL CHIP	100K	5%	1/10W		A-3283-655-A	MAIN BOARD, COMPLETE (AEP,UK,E)				

R238	1-216-851-11	METAL CHIP	330K	5%	1/10W							
R239	1-216-845-11	METAL CHIP	100K	5%	1/10W							
R240	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W							
R241	1-218-965-11	RES-CHIP	10K	5%	1/16W							
R242	1-218-965-11	RES-CHIP	10K	5%	1/16W		1-694-592-31	TERMINAL				
							7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT				
R243	1-216-797-11	METAL CHIP	10	5%	1/10W		7-685-793-09	SCREW +PTT 2.6X8 (S)				
R244	1-218-965-11	RES-CHIP	10K	5%	1/16W		7-685-795-09	SCREW +PTT 2.6X12 (S)				
R245	1-216-793-11	METAL CHIP	4.7	5%	1/10W			< BUZZER >				
R246	1-216-797-11	METAL CHIP	10	5%	1/10W							
R247	1-216-845-11	METAL CHIP	100K	5%	1/10W	BZ801	1-544-886-11	BUZZER				
								< CAPACITOR >				
R248	1-208-635-11	METAL CHIP	10	0.5%	1/16W							
R249	1-216-833-11	METAL CHIP	10K	5%	1/10W							
R250	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	C101	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
R251	1-216-845-11	METAL CHIP	100K	5%	1/10W	C102	1-126-934-11	ELECT	220uF	20%	16V	
R252	1-216-793-11	METAL CHIP	4.7	5%	1/10W	C103	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
						C104	1-162-922-11	CERAMIC CHIP	39PF	5%	50V	
R253	1-216-835-11	METAL CHIP	15K	5%	1/10W	C105	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
R254	1-216-845-11	METAL CHIP	100K	5%	1/10W							
R255	1-216-829-11	METAL CHIP	4.7K	5%	1/10W							
R259	1-218-933-11	RES-CHIP	22	5%	1/16W	C106	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
R260	1-208-635-11	METAL CHIP	10	0.5%	1/16W	C107	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
						C108	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
R268	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	C109	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
R272	1-218-959-11	RES-CHIP	3.3K	5%	1/16W	C110	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
R273	1-218-935-11	RES-CHIP	33	5%	1/16W							
R298	1-218-969-11	RES-CHIP	22K	5%	1/16W	C112	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
R299	1-216-295-91	SHORT CHIP	0 (M9905X)			C113	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
						C114	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
R300	1-216-295-91	SHORT CHIP	0 (M9900)			C115	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark
C116	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C320	1-127-573-11	CERAMIC CHIP	1uF	10% 16V
C117	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C321	1-127-573-11	CERAMIC CHIP	1uF	10% 16V
C118	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V	C322	1-162-965-11	CERAMIC CHIP	0.0015uF	10% 50V
C119	1-128-643-11	CERAMIC CHIP	4.7uF	35V	C323	1-162-927-11	CERAMIC CHIP	100PF	5% 50V
C120	1-128-643-11	CERAMIC CHIP	4.7uF	35V	C324	1-162-927-11	CERAMIC CHIP	100PF	5% 50V
C121	1-135-346-21	ELECT CHIP	39uF	20% 16V	C325	1-119-778-35	ELECT	100uF	20% 10V
C122	1-135-346-21	ELECT CHIP	39uF	20% 16V	C326	1-162-927-11	CERAMIC CHIP	100PF	5% 50V
C123	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C327	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
C124	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C328	1-162-927-11	CERAMIC CHIP	100PF	5% 50V
C125	1-126-947-11	ELECT	47uF	20% 35V	C330	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V
C126	1-126-947-11	ELECT	47uF	20% 35V	C333	1-119-824-35	ELECT	10uF	20% 50V
C127	1-127-573-11	CERAMIC CHIP	1uF	10% 16V	C334	1-119-778-35	ELECT	100uF	20% 10V
C128	1-127-573-11	CERAMIC CHIP	1uF	10% 16V	C335	1-162-965-11	CERAMIC CHIP	0.0015uF	10% 50V
C129	1-128-643-11	CERAMIC CHIP	4.7uF	35V	C336	1-119-824-35	ELECT	10uF	20% 50V
C130	1-128-643-11	CERAMIC CHIP	4.7uF	35V	C337	1-126-947-11	ELECT	47uF	20% 35V
C131	1-126-934-11	ELECT	220uF	20% 16V	C338	1-119-778-35	ELECT	100uF	20% 10V
C132	1-128-643-11	CERAMIC CHIP	4.7uF	35V	C339	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V
C133	1-128-643-11	CERAMIC CHIP	4.7uF	35V	C340	1-119-824-35	ELECT	10uF	20% 50V
C201	1-126-947-11	ELECT	47uF	20% 35V	C341	1-162-965-11	CERAMIC CHIP	0.0015uF	10% 50V
C202	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V (AEP,UK,E)	C342	1-119-778-35	ELECT	100uF	20% 10V
C203	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V (AEP,UK,E)	C343	1-119-824-35	ELECT	10uF	20% 50V
C204	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V (AEP,UK,E)	C344	1-119-824-35	ELECT	10uF	20% 50V
C205	1-162-924-11	CERAMIC CHIP	56PF	5% 50V (AEP,UK,E)	C345	1-119-824-35	ELECT	10uF	20% 50V
C206	1-162-959-11	CERAMIC CHIP	330PF	5% 50V (AEP,UK,E)	C346	1-119-824-35	ELECT	10uF	20% 50V
C207	1-162-924-11	CERAMIC CHIP	56PF	5% 50V (AEP,UK,E)	C347	1-119-824-35	ELECT	10uF	20% 50V
C208	1-125-838-11	CERAMIC CHIP	2.2uF	10% 6.3V (AEP,UK,E)	C348	1-126-964-11	ELECT	10uF	20% 50V
C209	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C350	1-162-927-11	CERAMIC CHIP	100PF	5% 50V
C211	1-164-739-11	CERAMIC CHIP	560PF	5% 50V (AEP,UK,E)	C351	1-126-947-11	ELECT	47uF	20% 35V
C212	1-124-231-61	ELECT	4.7uF	20% 16V (AEP,UK,E)	C352	1-162-927-11	CERAMIC CHIP	100PF	5% 50V
C219	1-124-233-11	ELECT	10uF	20% 16V	C353	1-162-927-11	CERAMIC CHIP	100PF	5% 50V
C220	1-124-233-11	ELECT	10uF	20% 16V	C354	1-162-927-11	CERAMIC CHIP	100PF	5% 50V
C221	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C355	1-162-927-11	CERAMIC CHIP	100PF	5% 50V
C222	1-126-960-11	ELECT	1uF	20% 50V	C362	1-125-891-11	CERAMIC CHIP	0.47uF	10% 10V
C301	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V	C363	1-125-891-11	CERAMIC CHIP	0.47uF	10% 10V
C302	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	C364	1-125-891-11	CERAMIC CHIP	0.47uF	10% 10V
C303	1-127-573-11	CERAMIC CHIP	1uF	10% 16V	C365	1-125-891-11	CERAMIC CHIP	0.47uF	10% 10V
C304	1-126-960-11	ELECT	1uF	20% 50V	C367	1-128-551-11	ELECT	22uF	20% 63V
C305	1-127-573-11	CERAMIC CHIP	1uF	10% 16V	C371	1-164-489-11	CERAMIC CHIP	0.22uF	10% 16V
C307	1-119-824-35	ELECT	10uF	20% 50V	C372	1-115-340-11	CERAMIC CHIP	0.22uF	10% 25V
C309	1-119-824-35	ELECT	10uF	20% 50V	C373	1-126-961-11	ELECT	2.2uF	20% 50V
C310	1-115-467-11	CERAMIC CHIP	0.22uF	10% 10V	C374	1-115-340-11	CERAMIC CHIP	0.22uF	10% 25V
C311	1-115-467-11	CERAMIC CHIP	0.22uF	10% 10V	C375	1-107-906-11	ELECT	10uF	20% 50V
C312	1-162-927-11	CERAMIC CHIP	100PF	5% 50V	C376	1-107-906-11	ELECT	10uF	20% 50V
C313	1-136-153-00	FILM	0.012uF	5% 50V	C401	1-126-947-11	ELECT	47uF	20% 35V
C314	1-127-573-11	CERAMIC CHIP	1uF	10% 16V	C402	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V
C315	1-119-824-35	ELECT	10uF	20% 50V	C403	1-126-947-11	ELECT	47uF	20% 35V
C316	1-162-927-11	CERAMIC CHIP	100PF	5% 50V	C404	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V
C317	1-162-927-11	CERAMIC CHIP	100PF	5% 50V	C405	1-126-947-11	ELECT	47uF	20% 35V
C318	1-162-965-11	CERAMIC CHIP	0.0015uF	10% 50V	C406	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V
C319	1-136-153-00	FILM	0.012uF	5% 50V	C407	1-104-665-11	ELECT	100uF	20% 25V
					C408	1-165-908-11	CERAMIC CHIP	1uF	10% 10V
					C409	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
					C410	1-115-156-11	CERAMIC CHIP	1uF	10% 10V
					C411	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V
					C501	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V
					C502	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V
					C503	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
					C506	1-107-826-11	CERAMIC CHIP	0.1uF	10% 16V

MAIN

Ref. No.	Part No.	Description	Remark		
C507	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C508	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C509	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C510	1-107-882-11	ELECT	100uF	20%	16V
C511	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C512	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C513	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C514	1-164-160-11	CERAMIC CHIP	20PF	5%	50V
C515	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C516	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C517	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C518	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C519	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C520	1-125-701-11	DOUBLE LAYER	0.047F		5.5V
C521	1-115-156-11	CERAMIC CHIP	1uF		10V
C522	1-115-156-11	CERAMIC CHIP	1uF		10V
C523	1-107-882-11	ELECT	100uF	20%	16V
C524	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C525	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C526	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C527	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C528	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C601	1-126-934-11	ELECT	220uF	20%	16V
C603	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C701	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C702	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C703	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C704	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C705	1-137-765-21	ELECT	47uF	20%	16V
C706	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C707	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C708	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C709	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C802	1-107-882-11	ELECT	100uF	20%	16V
C804	1-107-906-11	ELECT	10uF	20%	50V
C806	1-107-906-11	ELECT	10uF	20%	50V
C808	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C811	1-126-960-11	ELECT	1uF	20%	50V
C812	1-126-963-11	ELECT	4.7uF	20%	50V
C814	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C815	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C816	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C817	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C818	1-131-868-81	ELECT	3300uF	20%	16V
C820	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
< CONNECTOR >					
CN202	1-785-900-21	CONNECTOR 5P			
* CN301	1-566-758-11	PIN, CONNECTOR (PC BOARD) 3P			
CN401	1-817-536-11	CONNECTOR, BOARD TO BOARD 28P			
CN601	1-580-907-41	PLUG, CONNECTOR 8P (BUS CONTROL IN)			
CN701	1-566-760-11	PIN, CONNECTOR (PC BOARD) 5P			
CN801	1-774-701-21	PIN, CONNECTOR 16P			
CN802	1-691-394-21	CONNECTOR, FFC/FPC (ZIF) 30P			
< JACK >					
CN302	1-818-293-11	JACK, PIN 6P (AUDIO OUT FRONT/REAR, SUB OUT)			

Ref. No.	Part No.	Description	Remark
CNJ101	1-764-270-21	JACK, STEREO MINIATURE (DIA.3.5) (REMOTE IN)	
< DIODE >			
D101	8-719-060-48	DIODE RB751V-40TE-17	
D102	8-719-060-48	DIODE RB751V-40TE-17	
D201	8-719-069-55	DIODE UDZS-TE17-5.6B	
D301	8-719-978-33	DIODE DTZ-TT11-6.8B	
D302	8-719-060-48	DIODE RB751V-40TE-17	
D303	8-719-060-48	DIODE RB751V-40TE-17	
D304	8-719-988-61	DIODE 1SS355TE-17	
D503	8-719-078-31	DIODE SDS2836F	
D504	8-719-988-61	DIODE 1SS355TE-17	
D505	8-719-060-48	DIODE RB751V-40TE-17	
D506	8-719-023-25	DIODE MA704WK	
D507	8-719-045-77	DIODE MA704WA-TX	
D508	8-719-422-41	DIODE MA8051-L-TX	
D509	8-719-988-61	DIODE 1SS355TE-17	
D510	8-719-988-61	DIODE 1SS355TE-17	
D602	8-719-017-95	DIODE MA8180-TX	
D603	8-719-017-95	DIODE MA8180-TX	
D604	8-719-069-56	DIODE UDZS-TE17-6.2B	
D605	8-719-058-24	DIODE RB501V-40TE-17	
D607	8-719-017-95	DIODE MA8180-TX	
D608	8-719-060-48	DIODE RB751V-40TE-17	
D609	8-719-060-48	DIODE RB751V-40TE-17	
D610	8-719-060-48	DIODE RB751V-40TE-17	
D701	6-500-475-01	LED SML-310BAT-T86 (TRY ILLUMINATION)	
D702	6-500-475-01	LED SML-310BAT-T86 (TRY ILLUMINATION)	
D703	8-719-078-31	DIODE SDS2836F	
D801	8-719-053-18	DIODE 1SR154-400TE-25	
D802	8-719-053-18	DIODE 1SR154-400TE-25	
D803	8-719-053-18	DIODE 1SR154-400TE-25	
D804	8-719-053-18	DIODE 1SR154-400TE-25	
D805	8-719-053-18	DIODE 1SR154-400TE-25	
D806	8-719-053-18	DIODE 1SR154-400TE-25	
D807	8-719-053-18	DIODE 1SR154-400TE-25	
D808	8-719-053-18	DIODE 1SR154-400TE-25	
D809	6-500-508-01	DIODE RR263M-400FTR	
D810	6-500-508-01	DIODE RR263M-400FTR	
D811	8-719-988-61	DIODE 1SS355TE-17	
D812	8-719-978-33	DIODE DTZ-TT11-6.8B	
D814	8-719-017-95	DIODE MA8180-TX	
D815	8-719-049-38	DIODE 1N5404TU	
D816	8-719-055-30	DIODE D1FS4A-TA	
D817	8-719-055-30	DIODE D1FS4A-TA	
D818	8-719-987-69	DIODE DAN217	
D819	8-719-017-95	DIODE MA8180-TX	
< IC >			
IC101	6-702-510-01	IC TPS5120DBTR	
IC201	6-703-809-01	IC SAA6588T/V2-518 (AEP,UK,E)	
IC301	6-703-303-01	IC TDA7416	
IC303	6-703-419-01	IC LA2901V-TLM-E	
IC306	6-705-359-01	IC TDA8588AJ/N2	
IC401	8-759-695-94	IC TAR5S33(TE85R)	
IC501	6-804-174-01	IC MB90F474HPFV-G-178 (US,CND)	
IC501	6-804-175-01	IC MB90F474HPFV-G-179 (AEP,UK,E)	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
IC502	8-759-698-19	IC XC61CN2702MR				R107	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
IC503	6-804-159-01	IC RRX9000-0801E				R108	1-216-839-11	METAL CHIP	33K	5%	1/10W
IC504	8-759-695-94	IC TAR5S33(TE85R)				R109	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
IC601	6-703-884-01	IC BA8271F-E2				R110	1-216-793-11	METAL CHIP	4.7	5%	1/10W
IC701	8-759-337-40	IC NJM2904V(TE2)				R111	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC702	8-759-527-33	IC LB1930M-TLM-E				R112	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
IC703	8-759-668-14	IC PQ09DZ1U				R113	1-216-793-11	METAL CHIP	4.7	5%	1/10W
IC801	8-759-679-36	IC TC7WT125FU(TE12R)				R114	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
		< JACK >				R115	1-216-839-11	METAL CHIP	33K	5%	1/10W
J201	1-793-598-11	JACK (ANTENNA)				R116	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
		< COIL >				R117	1-216-864-11	SHORT CHIP	0		
L101	1-428-979-21	INDUCTOR	22uH			R118	1-216-864-11	SHORT CHIP	0		
L102	1-456-750-11	INDUCTOR	22uH			R119	1-216-836-11	METAL CHIP	18K	5%	1/10W
L103	1-456-750-11	INDUCTOR	22uH			R201	1-216-864-11	SHORT CHIP	0 (AEP,UK,E)		
L402	1-414-398-11	INDUCTOR	10uH			R202	1-216-817-11	METAL CHIP	470	5%	1/10W (AEP,UK,E)
L404	1-414-398-11	INDUCTOR	10uH								
L501	1-414-185-51	INDUCTOR	22uH			R203	1-216-001-00	RES-CHIP	10	5%	1/10W (AEP,UK,E)
L801	1-456-617-11	COIL, CHOKE	250uH			R204	1-216-001-00	RES-CHIP	10	5%	1/10W (AEP,UK,E)
		< TRANSISTOR >				R205	1-216-864-11	SHORT CHIP	0		
Q101	6-550-783-01	FET 2SK1133-T1B-A				R206	1-216-864-11	SHORT CHIP	0		
Q102	8-729-054-68	TRANSISTOR FDS6986S				R207	1-216-864-11	SHORT CHIP	0		
Q103	8-729-054-68	TRANSISTOR FDS6986S				R208	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (AEP,UK,E)
Q104	6-550-783-01	FET 2SK1133-T1B-A				R209	1-216-864-11	SHORT CHIP	0		
Q201	8-729-920-85	TRANSISTOR 2SD1664-QR				R210	1-216-864-11	SHORT CHIP	0		
Q202	8-729-027-46	TRANSISTOR DTC114YKA-T146 (AEP,UK,E)				R211	1-216-864-11	SHORT CHIP	0		
Q301	8-729-053-84	FET SSM3K09FU(T5LSONY1)				R212	1-216-817-11	METAL CHIP	470	5%	1/10W
Q302	6-550-752-01	TRANSISTOR DTC614TKT146				R213	1-216-809-11	METAL CHIP	100	5%	1/10W (AEP,UK,E)
Q303	6-550-752-01	TRANSISTOR DTC614TKT146				R301	1-216-809-11	METAL CHIP	100	5%	1/10W
Q304	6-550-752-01	TRANSISTOR DTC614TKT146				R302	1-216-864-11	SHORT CHIP	0		
Q305	6-550-752-01	TRANSISTOR DTC614TKT146				R303	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q306	8-729-027-46	TRANSISTOR DTC114YKA-T146				R304	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q307	6-550-752-01	TRANSISTOR DTC614TKT146				R306	1-216-864-11	SHORT CHIP	0		
Q308	8-729-055-91	TRANSISTOR SRA2202SF				R307	1-216-864-11	SHORT CHIP	0		
Q501	8-729-055-91	TRANSISTOR SRA2202SF				R308	1-216-809-11	METAL CHIP	100	5%	1/10W
Q502	8-729-027-46	TRANSISTOR DTC114YKA-T146				R309	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q503	8-729-055-91	TRANSISTOR SRA2202SF				R310	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q602	8-729-027-38	TRANSISTOR DTA144EKA-T146				R311	1-216-809-11	METAL CHIP	100	5%	1/10W
Q603	8-729-027-46	TRANSISTOR DTC114YKA-T146				R312	1-216-809-11	METAL CHIP	100	5%	1/10W
Q605	8-729-027-38	TRANSISTOR DTA144EKA-T146				R313	1-216-809-11	METAL CHIP	100	5%	1/10W
Q606	8-729-027-46	TRANSISTOR DTC114YKA-T146				R314	1-216-809-11	METAL CHIP	100	5%	1/10W
Q701	8-729-049-43	TRANSISTOR STB1132Y				R315	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q702	8-729-027-46	TRANSISTOR DTC114YKA-T146				R316	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q801	8-729-421-22	TRANSISTOR UN2211				R317	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q802	8-729-027-46	TRANSISTOR DTC114YKA-T146				R318	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q803	8-729-049-40	TRANSISTOR 2SC5343SFG				R322	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
Q804	8-729-049-40	TRANSISTOR 2SC5343SFG				R323	1-218-728-11	METAL CHIP	33K	0.5%	1/10W
Q805	8-729-049-40	TRANSISTOR 2SC5343SFG				R324	1-218-728-11	METAL CHIP	33K	0.5%	1/10W
		< RESISTOR >				R325	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R101	1-218-696-11	METAL CHIP	1.5K	0.5%	1/10W	R326	1-218-728-11	METAL CHIP	33K	0.5%	1/10W
R102	1-218-716-11	METAL CHIP	10K	0.5%	1/10W	R327	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R104	1-218-696-11	METAL CHIP	1.5K	0.5%	1/10W	R328	1-218-728-11	METAL CHIP	33K	0.5%	1/10W
R105	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R329	1-216-813-11	METAL CHIP	220	5%	1/10W
R106	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R330	1-216-813-11	METAL CHIP	220	5%	1/10W
						R331	1-216-813-11	METAL CHIP	220	5%	1/10W
						R332	1-216-813-11	METAL CHIP	220	5%	1/10W

CDX-M9900/M9905X

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R333	1-216-813-11	METAL CHIP	220	5%	1/10W	R532	1-216-845-11	METAL CHIP	100K	5%	1/10W
R334	1-218-724-11	METAL CHIP	22K	0.5%	1/10W	R534	1-216-864-11	SHORT CHIP	0		
R335	1-216-841-11	METAL CHIP	47K	5%	1/10W	R536	1-216-864-11	SHORT CHIP	0		
R336	1-216-841-11	METAL CHIP	47K	5%	1/10W	R539	1-216-845-11	METAL CHIP	100K	5%	1/10W
R337	1-216-841-11	METAL CHIP	47K	5%	1/10W	R540	1-216-845-11	METAL CHIP	100K	5%	1/10W
R338	1-216-841-11	METAL CHIP	47K	5%	1/10W	R541	1-216-864-11	SHORT CHIP	0		
R339	1-216-841-11	METAL CHIP	47K	5%	1/10W	R542	1-216-821-11	METAL CHIP	1K	5%	1/10W
R346	1-216-805-11	METAL CHIP	47	5%	1/10W	R543	1-216-849-11	METAL CHIP	220K	5%	1/10W
R353	1-216-821-11	METAL CHIP	1K	5%	1/10W	R544	1-216-849-11	METAL CHIP	220K	5%	1/10W
R354	1-216-821-11	METAL CHIP	1K	5%	1/10W	R545	1-216-864-11	SHORT CHIP	0		
R355	1-216-821-11	METAL CHIP	1K	5%	1/10W	R546	1-216-853-11	METAL CHIP	470K	5%	1/10W
R356	1-216-821-11	METAL CHIP	1K	5%	1/10W	R547	1-216-845-11	METAL CHIP	100K	5%	1/10W
R401	1-216-295-91	SHORT CHIP	0			R550	1-216-841-11	METAL CHIP	47K	5%	1/10W
R402	1-414-760-21	INDUCTOR, FERRITE BEAD				R551	1-216-864-11	SHORT CHIP	0		
R404	1-414-760-21	INDUCTOR, FERRITE BEAD				R552	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R406	1-216-841-11	METAL CHIP	47K	5%	1/10W	R557	1-216-845-11	METAL CHIP	100K	5%	1/10W
R407	1-216-864-11	SHORT CHIP	0			R558	1-216-833-11	METAL CHIP	10K	5%	1/10W
R408	1-414-760-21	INDUCTOR, FERRITE BEAD				R559	1-216-833-11	METAL CHIP	10K	5%	1/10W
R409	1-414-760-21	INDUCTOR, FERRITE BEAD				R560	1-216-833-11	METAL CHIP	10K	5%	1/10W
R410	1-414-760-21	INDUCTOR, FERRITE BEAD				R561	1-216-833-11	METAL CHIP	10K	5%	1/10W
R411	1-216-864-11	SHORT CHIP	0			R562	1-216-845-11	METAL CHIP	100K	5%	1/10W
R501	1-216-845-11	METAL CHIP	100K	5%	1/10W	R563	1-216-845-11	METAL CHIP	100K	5%	1/10W
R502	1-216-849-11	METAL CHIP	220K	5%	1/10W	R564	1-216-864-11	SHORT CHIP	0		
R503	1-218-716-11	METAL CHIP	10K	0.5%	1/10W	R565	1-216-864-11	SHORT CHIP	0		
R504	1-216-809-11	METAL CHIP	100	5%	1/10W	R567	1-216-841-11	METAL CHIP	47K	5%	1/10W
R505	1-216-809-11	METAL CHIP	100	5%	1/10W	R569	1-216-864-11	SHORT CHIP	0		
R506	1-216-839-11	METAL CHIP	33K	5%	1/10W	R570	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R507	1-216-843-11	METAL CHIP	68K	5%	(AEP,UK,E)	R571	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R507	1-216-864-11	SHORT CHIP	0 (US,CND)			R572	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R508	1-216-845-11	METAL CHIP	100K	5%	1/10W	R573	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R509	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R574	1-216-821-11	METAL CHIP	1K	5%	1/10W
R510	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R575	1-216-864-11	SHORT CHIP	0		
R511	1-216-839-11	METAL CHIP	33K	5%	1/10W	R576	1-216-845-11	METAL CHIP	100K	5%	1/10W
R512	1-216-833-11	METAL CHIP	10K	5%	1/10W	R602	1-216-809-11	METAL CHIP	100	5%	1/10W
R513	1-216-841-11	METAL CHIP	47K	5%	1/10W	R603	1-216-809-11	METAL CHIP	100	5%	1/10W
R514	1-218-716-11	METAL CHIP	10K	0.5%	1/10W	R604	1-216-835-11	METAL CHIP	15K	5%	1/10W
R515	1-216-809-11	METAL CHIP	100	5%	1/10W	R605	1-216-821-11	METAL CHIP	1K	5%	1/10W
R516	1-216-839-11	METAL CHIP	33K	5%	1/10W	R606	1-216-821-11	METAL CHIP	1K	5%	1/10W
R517	1-216-839-11	METAL CHIP	33K	5%	1/10W	R607	1-216-821-11	METAL CHIP	1K	5%	1/10W
R518	1-216-843-11	METAL CHIP	68K	5%	1/10W	R608	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R519	1-216-843-11	METAL CHIP	68K	5%	1/10W	R609	1-216-849-11	METAL CHIP	220K	5%	1/10W
R520	1-216-821-11	METAL CHIP	1K	5%	(AEP,UK,E)	R610	1-216-849-11	METAL CHIP	220K	5%	1/10W
R521	1-216-845-11	METAL CHIP	100K	5%	1/10W	R701	1-216-833-11	METAL CHIP	10K	5%	1/10W
R522	1-216-821-11	METAL CHIP	1K	5%	1/10W	R702	1-216-047-91	RES-CHIP	820	5%	1/10W
R523	1-216-845-11	METAL CHIP	100K	5%	1/10W	R703	1-216-047-91	RES-CHIP	820	5%	1/10W
R524	1-216-843-11	METAL CHIP	68K	5%	1/10W	R704	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R525	1-216-839-11	METAL CHIP	33K	5%	(AEP,UK,E)	R705	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R526	1-216-821-11	METAL CHIP	1K	5%	(AEP,UK,E)	R706	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R527	1-216-864-11	SHORT CHIP	0			R707	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R528	1-216-821-11	METAL CHIP	1K	5%	1/10W	R708	1-216-845-11	METAL CHIP	100K	5%	1/10W
R529	1-216-864-11	SHORT CHIP	0			R709	1-216-833-11	METAL CHIP	10K	5%	1/10W
R530	1-216-821-11	METAL CHIP	1K	5%	1/10W	R710	1-218-236-91	RES-CHIP	1	10%	1/4W
R531	1-216-841-11	METAL CHIP	47K	5%	1/10W	R711	1-218-236-91	RES-CHIP	1	10%	1/4W
						R801	1-216-821-11	METAL CHIP	1K	5%	1/10W
						R802	1-216-841-11	METAL CHIP	47K	5%	1/10W
						R803	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
						R804	1-216-837-11	METAL CHIP	22K	5%	1/10W
						R805	1-216-845-11	METAL CHIP	100K	5%	1/10W

MAIN

SENSOR

SERVO

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R806	1-216-821-11	METAL CHIP	1K	5%	1/10W	C28	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R807	1-216-833-11	METAL CHIP	10K	5%	1/10W	C29	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R808	1-216-841-11	METAL CHIP	47K	5%	1/10W	C30	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R809	1-216-073-91	RES-CHIP	10K	5%	1/10W	C32	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R810	1-216-833-11	METAL CHIP	10K	5%	1/10W	C33	1-164-156-11	CERAMIC CHIP	0.1uF		25V
						C34	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R811	1-216-073-91	RES-CHIP	10K	5%	1/10W	C35	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R812	1-216-073-91	RES-CHIP	10K	5%	1/10W	C36	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R813	1-216-073-91	RES-CHIP	10K	5%	1/10W	C37	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
R814	1-216-841-11	METAL CHIP	47K	5%	1/10W	C38	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R815	1-216-821-11	METAL CHIP	1K	5%	1/10W						
< THERMISTOR >						C39	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
TH501	1-810-812-21	THERMISTOR, NTC (1608)				C40	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
TH601	1-801-792-21	THERMISTOR, POSITIVE				C41	1-164-156-11	CERAMIC CHIP	0.1uF		25V
< TUNER >						C42	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
TUX201	A-3220-961-A	TUNER UNIT (TUX-032//Q3)				C43	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
< VIBRATOR >						C44	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
X201	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz) (AEP,UK,E)				C45	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
X501	1-767-993-21	VIBRATOR, CRYSTAL (3.68MHz)				C46	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
X502	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)				C47	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
X503	1-781-282-11	VIBRATOR, CERAMIC (4MHz)				C48	1-104-609-11	ELECT CHIP	100uF	20%	4V
*****						C49	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
SENSOR BOARD						C50	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
*****						C51	1-164-156-11	CERAMIC CHIP	0.1uF		25V
< SWITCH >						C52	1-100-381-11	ELECT CHIP	10uF	20%	16V
SW2	1-529-566-61	SWITCH, PUSH (1 KEY) (SELF)				C53	1-100-381-11	ELECT CHIP	10uF	20%	16V
SW3	1-529-566-61	SWITCH, PUSH (1 KEY) (DISC IN)				C54	1-164-156-11	CERAMIC CHIP	0.1uF		25V
*****						C55	1-164-156-11	CERAMIC CHIP	0.1uF		25V
A-3283-359-A	SERVO BOARD, COMPLETE					C56	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
*****						C57	1-164-156-11	CERAMIC CHIP	0.1uF		25V
< CAPACITOR >						C58	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C59	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C60	1-100-381-11	ELECT CHIP	10uF	20%	16V
C3	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C63	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C4	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C64	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C65	1-126-208-21	ELECT CHIP	47uF	20%	4V
C6	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C66	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C7	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C67	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C8	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C74	1-126-208-21	ELECT CHIP	47uF	20%	4V
C10	1-104-609-11	ELECT CHIP	100uF	20%	4V	C75	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C11	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C77	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C13	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	C79	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C14	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	C81	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C16	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C83	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C18	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C85	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C19	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C86	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C21	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C91	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C22	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C92	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C23	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	C109	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C24	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C110	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C25	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	C115	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C26	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	< CONNECTOR >					
C27	1-126-208-21	ELECT CHIP	47uF	20%	4V	CN1	1-794-153-21	CONNECTOR, FPC (ZIF) 16P			
						CN2	1-817-275-21	CONNECTOR, BOARD TO BOARD 28P			
						< JUMPER RESISTOR >					
C28	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	FB1	1-216-864-11	SHORT CHIP	0		
C29	1-164-156-11	CERAMIC CHIP	0.1uF		25V	FB2	1-216-864-11	SHORT CHIP	0		

SERVO

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
FB5	1-216-864-11	SHORT CHIP	0			R49	1-218-953-11	RES-CHIP	1K	5%	1/16W
		< IC >				R50	1-218-941-81	RES-CHIP	100	5%	1/16W
IC1	6-705-366-01	IC LA6560-TE-L-E				R52	1-218-941-81	RES-CHIP	100	5%	1/16W
IC3	8-753-216-86	IC CXD3059BR				R53	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
IC4	6-804-028-02	IC MB90487PFV-G-107-BNDE1				R54	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
IC7	6-705-364-01	IC R1114N151D-TR-FA				R55	1-218-953-11	RES-CHIP	1K	5%	1/16W
IC8	6-705-365-01	IC TC94A34FG-002				R56	1-218-973-11	RES-CHIP	47K	5%	1/16W
		< TRANSISTOR >				R57	1-218-941-81	RES-CHIP	100	5%	1/16W
Q1	8-729-904-87	TRANSISTOR 2SB1197K-R				R59	1-218-941-81	RES-CHIP	100	5%	1/16W
Q2	8-729-928-90	TRANSISTOR DTC114EE				R60	1-218-990-11	SHORT CHIP	0		
Q3	8-729-904-87	TRANSISTOR 2SB1197K-R				R61	1-218-985-11	RES-CHIP	470K	5%	1/16W
Q5	8-729-904-87	TRANSISTOR 2SB1197K-R				R62	1-218-965-11	RES-CHIP	10K	5%	1/16W
Q6	8-729-928-90	TRANSISTOR DTC114EE				R64	1-218-941-81	RES-CHIP	100	5%	1/16W
		< RESISTOR >				R65	1-218-941-81	RES-CHIP	100	5%	1/16W
R1	1-218-941-81	RES-CHIP	100	5%	1/16W	R67	1-218-941-81	RES-CHIP	100	5%	1/16W
R2	1-218-971-11	RES-CHIP	33K	5%	1/16W	R68	1-218-990-11	SHORT CHIP	0		
R3	1-218-971-11	RES-CHIP	33K	5%	1/16W	R69	1-218-973-11	RES-CHIP	47K	5%	1/16W
R4	1-218-965-11	RES-CHIP	10K	5%	1/16W	R70	1-218-945-11	RES-CHIP	220	5%	1/16W
R5	1-218-965-11	RES-CHIP	10K	5%	1/16W	R71	1-218-941-81	RES-CHIP	100	5%	1/16W
R6	1-218-965-11	RES-CHIP	10K	5%	1/16W	R72	1-218-990-11	SHORT CHIP	0		
R7	1-208-635-11	METAL CHIP	10	0.5%	1/16W	R73	1-218-941-81	RES-CHIP	100	5%	1/16W
R8	1-218-971-11	RES-CHIP	33K	5%	1/16W	R74	1-218-941-81	RES-CHIP	100	5%	1/16W
R9	1-218-971-11	RES-CHIP	33K	5%	1/16W	R76	1-218-941-81	RES-CHIP	100	5%	1/16W
R10	1-218-965-11	RES-CHIP	10K	5%	1/16W	R77	1-218-990-11	SHORT CHIP	0		
R11	1-218-965-11	RES-CHIP	10K	5%	1/16W	R78	1-218-941-81	RES-CHIP	100	5%	1/16W
R12	1-208-635-11	METAL CHIP	10	0.5%	1/16W	R79	1-218-941-81	RES-CHIP	100	5%	1/16W
R13	1-218-965-11	RES-CHIP	10K	5%	1/16W	R80	1-218-977-11	RES-CHIP	100K	5%	1/16W
R14	1-218-990-11	SHORT CHIP	0			R81	1-218-941-81	RES-CHIP	100	5%	1/16W
R15	1-218-990-11	SHORT CHIP	0			R85	1-218-973-11	RES-CHIP	47K	5%	1/16W
R16	1-218-990-11	SHORT CHIP	0			R86	1-218-973-11	RES-CHIP	47K	5%	1/16W
R17	1-218-965-11	RES-CHIP	10K	5%	1/16W	R87	1-218-973-11	RES-CHIP	47K	5%	1/16W
R18	1-218-965-11	RES-CHIP	10K	5%	1/16W	R91	1-220-200-81	RES-CHIP	30K	5%	1/16W
R19	1-218-969-11	RES-CHIP	22K	5%	1/16W	R92	1-218-971-11	RES-CHIP	33K	5%	1/16W
R20	1-218-969-11	RES-CHIP	22K	5%	1/16W	R96	1-218-990-11	SHORT CHIP	0		
R21	1-218-990-11	SHORT CHIP	0			R97	1-218-941-81	RES-CHIP	100	5%	1/16W
R22	1-218-967-11	RES-CHIP	15K	5%	1/16W	R98	1-218-941-81	RES-CHIP	100	5%	1/16W
R23	1-218-967-11	RES-CHIP	15K	5%	1/16W	R99	1-218-965-11	RES-CHIP	10K	5%	1/16W
R24	1-218-953-11	RES-CHIP	1K	5%	1/16W	R101	1-218-969-11	RES-CHIP	22K	5%	1/16W
R25	1-218-953-11	RES-CHIP	1K	5%	1/16W	R102	1-218-990-11	SHORT CHIP	0		
R26	1-218-981-11	RES-CHIP	220K	5%	1/16W	R106	1-218-969-11	RES-CHIP	22K	5%	1/16W
R27	1-218-965-11	RES-CHIP	10K	5%	1/16W	R107	1-218-965-11	RES-CHIP	10K	5%	1/16W
R28	1-218-990-11	SHORT CHIP	0			R108	1-218-941-81	RES-CHIP	100	5%	1/16W
R29	1-218-977-11	RES-CHIP	100K	5%	1/16W	R109	1-218-965-11	RES-CHIP	10K	5%	1/16W
R37	1-218-947-11	RES-CHIP	330	5%	1/16W	R110	1-218-945-11	RES-CHIP	220	5%	1/16W
R38	1-218-967-11	RES-CHIP	15K	5%	1/16W	R111	1-218-990-11	SHORT CHIP	0		
R39	1-218-941-81	RES-CHIP	100	5%	1/16W	R114	1-218-941-81	RES-CHIP	100	5%	1/16W
R40	1-218-990-11	SHORT CHIP	0			R115	1-218-941-81	RES-CHIP	100	5%	1/16W
R41	1-218-985-11	RES-CHIP	470K	5%	1/16W	R116	1-218-941-81	RES-CHIP	100	5%	1/16W
R42	1-218-965-11	RES-CHIP	10K	5%	1/16W	R117	1-218-990-11	SHORT CHIP	0		
R43	1-218-977-11	RES-CHIP	100K	5%	1/16W	R119	1-218-941-81	RES-CHIP	100	5%	1/16W
R44	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	R122	1-218-965-11	RES-CHIP	10K	5%	1/16W
R45	1-218-971-11	RES-CHIP	33K	5%	1/16W	R123	1-218-990-11	SHORT CHIP	0		
R46	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	R124	1-216-864-11	SHORT CHIP	0		
R47	1-218-977-11	RES-CHIP	100K	5%	1/16W	R126	1-218-965-11	RES-CHIP	10K	5%	1/16W
R48	1-218-941-81	RES-CHIP	100	5%	1/16W	R127	1-218-965-11	RES-CHIP	10K	5%	1/16W
						R128	1-218-965-11	RES-CHIP	10K	5%	1/16W
						R129	1-218-965-11	RES-CHIP	10K	5%	1/16W
						R133	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description	Remark		
R136	1-218-977-11	RES-CHIP	100K	5%	1/16W
R139	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R140	1-218-941-81	RES-CHIP	100	5%	1/16W
R141	1-218-941-81	RES-CHIP	100	5%	1/16W
R142	1-218-941-81	RES-CHIP	100	5%	1/16W
R143	1-218-941-81	RES-CHIP	100	5%	1/16W
R144	1-218-965-11	RES-CHIP	10K	5%	1/16W
R145	1-218-977-11	RES-CHIP	100K	5%	1/16W
R146	1-218-941-81	RES-CHIP	100	5%	1/16W
R147	1-218-941-81	RES-CHIP	100	5%	1/16W
R148	1-218-941-81	RES-CHIP	100	5%	1/16W
< SWITCH >					
SW1	1-529-565-61	SWITCH, PUSH (1 KEY) (DOWN)			
< VIBRATOR >					
X1	1-795-561-21	VIBRATOR, CERAMIC (16.9344MHz)			
X2	1-795-822-21	VIBRATOR, CERAMIC (18.43MHz)			

MISCELLANEOUS					

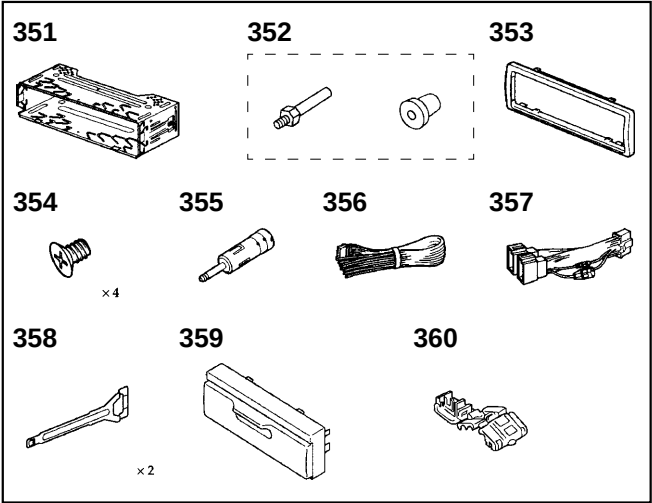
4	A-3373-132-A	CORD ASSY (POWER) (US,CND,E)			
4	A-3373-146-A	CORD ASSY (POWER) (AEP,UK)			
53	1-828-542-11	CABLE, FLAT 30P			
54	1-861-994-11	FLEXIBLE BOARD			
60	1-828-508-11	CORD (WITH CONNECTOR) (BUS AUDIO IN/ AUX IN,VIDEO IN)			
△ 203	8-820-207-02	OPTICAL PICK-UP (KSS1000E/K1RP)			
204	A-3337-640-A	CHASSIS (OP) SUB ASSY (including M901)			
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A			
M902	A-3337-638-A	MOTOR ASSY, SL (SLED)			
M903	A-3372-454-A	MOTOR ASSY, LE (LOADING)			
SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)			

Ref. No.	Part No.	Description	Remark
		ACCESSORIES	

	1-478-593-11	REMOTE COMMANDER (RM-X144) (AEP,UK,E)	
	1-478-593-31	REMOTE COMMANDER (RM-X145A) (US,CND)	
	1-562-593-11	CONNECTOR (CL-2218T)	
	3-230-549-01	COVER, BATTERY (for RM-X144/144A)	
	3-265-705-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH, SPANISH) (M9905X)	
	3-265-706-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH,SPANISH) (M9905X)	
	3-265-745-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH) (M9900:US,CND)	
	3-265-745-21	MANUAL, INSTRUCTION (ENGLISH,GERMAN, FRENCH,ITALIAN,DUTCH) (AEP,UK)	
	3-265-745-31	MANUAL, INSTRUCTION (ENGLISH, TRADITIONAL CHINESE) (E)	
	3-265-746-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (M9900:US,CND)	
	3-265-746-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, GERMAN,FRENCH,ITALIAN,DUTCH) (AEP,UK)	
	3-265-746-31	MANUAL, INSTRUCTION, INSTALL (ENGLISH, TRADITIONAL CHINESE) (E)	

PARTS FOR INSTALLATION AND CONNCTIONS

351	X-3382-647-1	FRAME ASSY, FITTING
352	X-3366-405-1	SCREW ASSY (EXP), FITTING (AEP,UK,E)
353	3-251-033-01	COLLAR
354	3-934-325-01	SCREW (+K 5X8 TP) (US,CND,E)
355	1-465-459-21	ADAPTOR, ANTENNA (AEP,UK)
356	A-3373-132-A	CORD ASSY (POWER) (US,CND,E)
357	A-3373-146-A	CORD ASSY (POWER) (AEP,UK)
358	3-246-471-01	KEY (FRAME)
359	X-3384-958-1	PANEL ASSY, COVER FRONT
* 360	1-469-778-11	CLAMP, FERRITE



REVISION HISTORY

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