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 µV

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 µV LW : 40 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	52 W × 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
2004B04-1

Sony Corporation
e Vehicle Company
Published by Sony Engineering Corporation

SONY®

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:

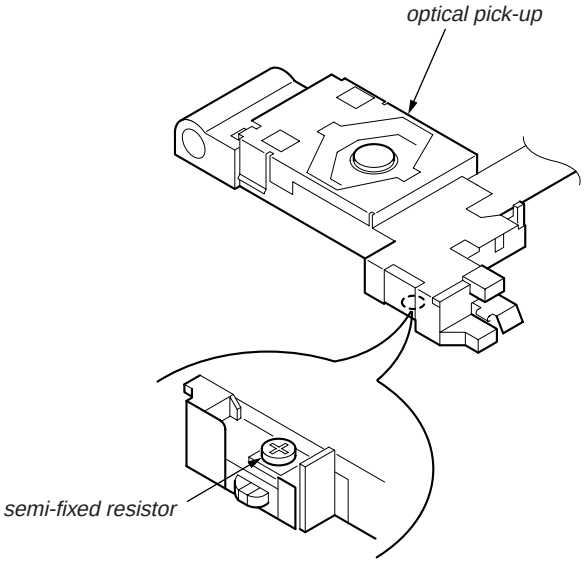
CD-R test disc TCD-R082LMT (Part No. J-2502-063-1)
CD-RW test disc TCD-W082L (Part No. J-2502-063-2)

- 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 ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ 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	COMPACT disc DIGITAL AUDIO Recordable COMPACT disc DIGITAL AUDIO ReWritable
MP3 files	COMPACT disc DIGITAL AUDIO Recordable COMPACT disc DIGITAL AUDIO ReWritable COMPACT disc Recordable COMPACT disc ReWritable

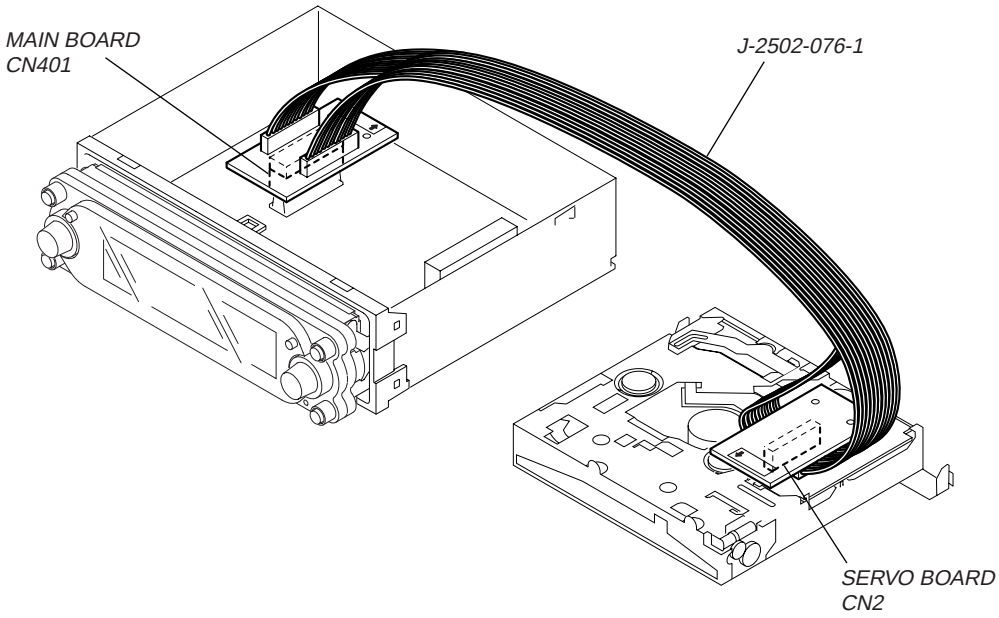
- Some CD-Rs/CD-RWs (depending on the equipment used for its recording or the condition of the disc) may not play on this unit.
- You cannot play a CD-R/CD-RW that is not finalized*.
- You can play MP3 files recorded on CD-ROMs, CD-Rs, and CD-RWs.
- A CD-R/CD-RW to which a session can be added can be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

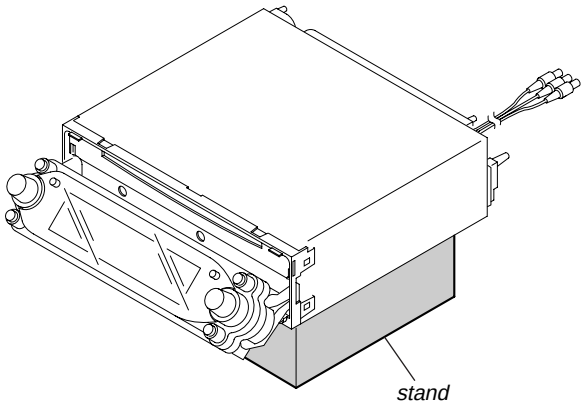
- Connect the MAIN board (CN401) and the SERVO board (CN2) with the extension cable (Part No. J-2502-062-1).



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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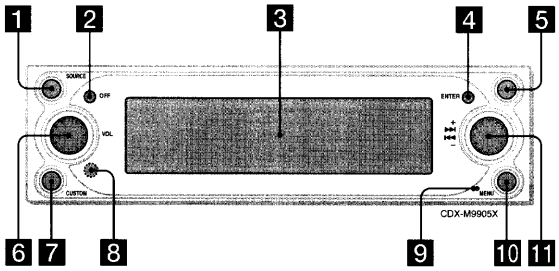
SECTION 1
GENERAL

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*1) 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.

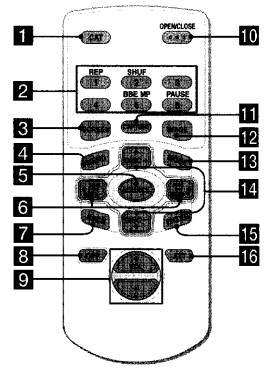
*1 *Available only when an optional Sony portable device is connected to AUX IN terminal of the unit. When you connect a Sony portable device and CD/MD unit(s) at the same time, use the AUX IN selector.*
*2 *Available only when an MP3 file is played.*
*3 *When an optional CD/MD unit is connected.*

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
(6): PAUSE*2
Sound:
(5): BBE MP*2

3 SCREEN button
To select the display mode.

4 MENU button
To display the main menu.

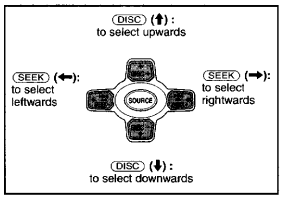
5 SOURCE (Power on/Radio/CD/MD*3/AUX*4) button
To select the source.

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 byCDX-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.

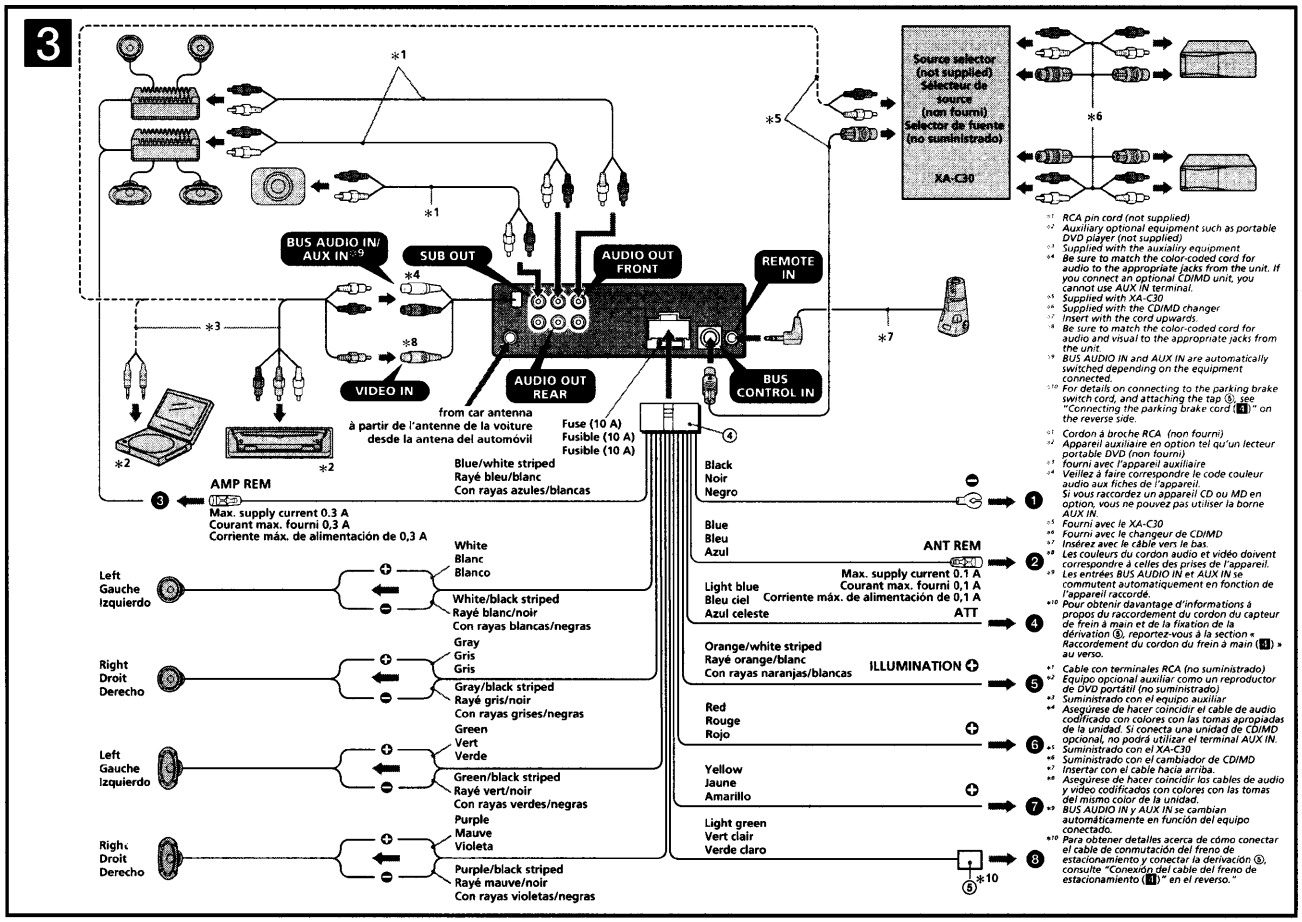
14 ⬆/⬇ (DISC +/–) button
To receive preset stations/change the disc*5, skip albums*6/select a menu.

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



*1 RCA pin cord (not supplied)
*2 Auxiliary optional equipment such as portable DVD player (not supplied)
*3 Supplied with the auxialiry equipment
*4 Be sure to match the color-coded cord for audio to the appropriate jacks from the unit. If you connect an optional CD/MD unit, you cannot use AUX IN terminal.
*5 Supplied with XA-C30
*6 Supplied with the CD/MD changer
*7 Insert with the cord upwards.
*8 Be sure to match the color-coded cord for audio and visual to the appropriate jacks from the unit.
*9 BUS AUDIO IN and AUX IN are automatically switched depending on the equipment connected.
*10 For details on connecting to the parking brake switch cord, and attaching the tap Ⓢ, see "Connecting the parking brake cord (1)" on the reverse side.

*1 Cordon à broche RCA (non fourni)
*2 Appareil auxiliaire en option tel qu'un lecteur portable DVD (non fourni)
*3 fourni avec l'appareil auxiliaire
*4 Veillez à faire correspondre le code couleur audio aux fiches de l'appareil. Si vous raccordez un appareil CD ou MD en option, vous ne pouvez pas utiliser la borne AUX IN.
*5 Fourni avec le XA-C30
*6 Fourni avec le changeur de CD/MD
*7 Insérez avec le câble vers le bas.
*8 Les couleurs du cordon audio et vidéo doivent correspondre à celles des prises de l'appareil.
*9 Les entrées BUS AUDIO IN et AUX IN se commutent automatiquement en fonction de l'appareil raccordé.
*10 Pour obtenir davantage d'informations à propos du raccordement du cordon du capteur de frein à main et de la fixation de la dérivation Ⓢ, reportez-vous à la section « Raccordement du cordon du frein à main (1) » au verso.

*1 Cable con terminales RCA (no suministrado)
*2 Equipo opcional auxiliar como un reproductor de DVD portátil (no suministrado)
*3 Suministrado con el equipo auxiliar
*4 Asegúrese de hacer coincidir el cable de audio codificado con colores con las tomas apropiadas de la unidad. Si conecta una unidad de CD/MD opcional, no podrá utilizar el terminal AUX IN.
*5 Suministrado con el XA-C30
*6 Suministrado con el cambiador de CD/MD
*7 Insertar con el cable hacia arriba.
*8 Asegúrese de hacer coincidir los cables de audio y video codificados con colores con las tomas del mismo color de la unidad.
*9 BUS AUDIO IN y AUX IN se cambian automáticamente en función del equipo conectado.
*10 Para obtener detalles acerca de cómo conectar el cable de conmutación del freno de estacionamiento y conectar la derivación Ⓢ, consulte "Conexión del cable del freno de estacionamiento (1)" en el reverso."

Connection diagram (3)

❶ **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.

❷ **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 rearlside glass, see "Notes on the control and power supply leads."*

❸ **To AMP REMOTE IN of an optional power amplifier**
This connection is only for amplifiers. Connecting any other system may damage the unit.

❹ **To the interface cable of a car telephone**

❺ **To a car's illumination signal**
Be sure to connect the black ground lead to a metal surface of the car first.

❻ **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 rearlside glass, see "Notes on the control and power supply leads."*

❼ **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.

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

Note on connection
If speaker and amplifier are not connected correctly, "Failure" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Schéma de raccordement (3)

❶ **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.

❷ **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 ».*

❸ **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.

❹ **Vers le cordon de liaison d'un téléphone de voiture**

❺ **Vers le connecteur du signal d'éclairage de la voiture**
Raccordez d'abord le fil de masse noir à un point métallique du véhicule.

❻ **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.
- *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 ».*

❼ **À la borne +12 V qui est alimentée en permanence**
Raccordez d'abord le fil de masse noir à un point métallique du véhicule.

❽ **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'enceinte.*
- *N'essayez pas de raccorder les haut-parleurs en parallèle.*
- *Raccordez uniquement des haut-parleurs passifs. Le raccordement de haut-parleurs actifs (avec amplificateurs intégrés) aux bornes des haut-parleurs peut endommager l'appareil.*
- *Pour éviter tout dysfonctionnement, n'utilisez pas les fils des haut-parleurs intégrés installés dans votre voiture si l'appareil partage un fil négatif commun (–) pour les haut-parleurs droit et gauche.*
- *Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.*

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)

❶ **A una superficie metálica del automóvil**
Conecte primero el cable de puesta a masa negro, y después los cables con raya naranja/blanca, amarillo, y rojo de entrada de alimentación.

❷ **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".*

❸ **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.

❹ **Al cable de interfaz de un teléfono para automóvil**

❺ **A una señal de iluminación del automóvil**
Asegúrese de conectar primero el cable de toma a tierra negro a una superficie metálica del automóvil.

❻ **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".*

❼ **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.

❽ **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 + 12V 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.*

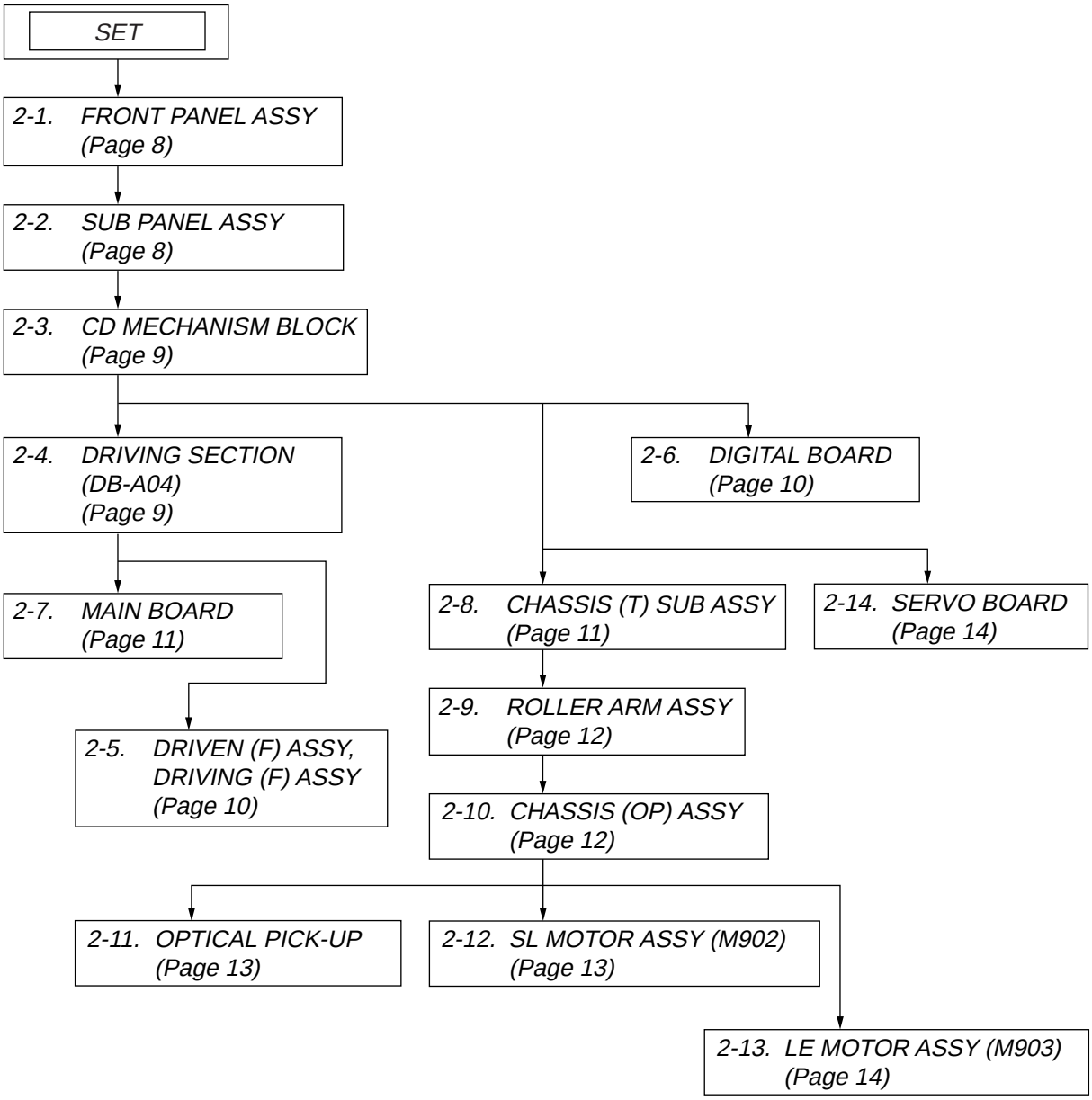
Conexión para protección de la memoria
Si conecta el conductor de entrada amarillo, el circuito de la memoria recibirá siempre alimentación, aunque apague la llave de encendido.

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.

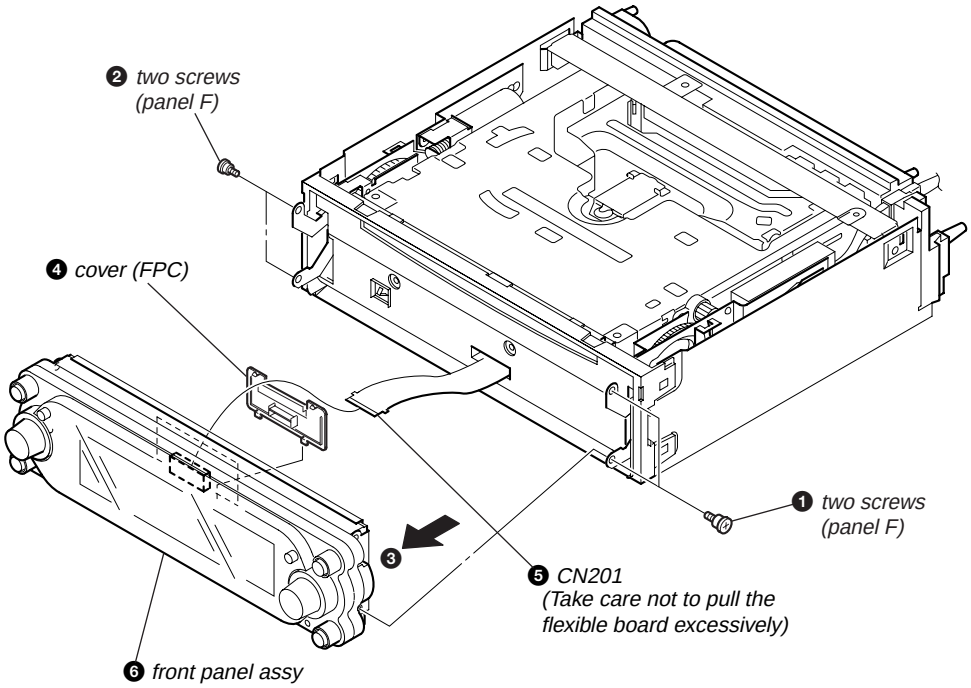
SECTION 2
DISASSEMBLY

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

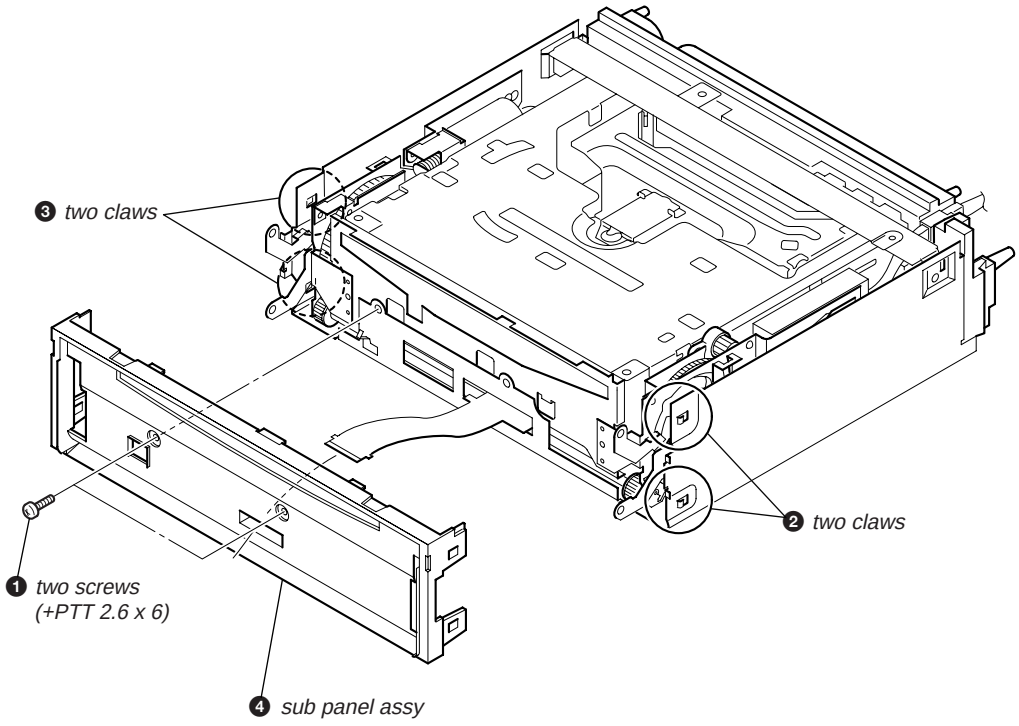


Note : Follow the disassembly procedure in the numerical order given.

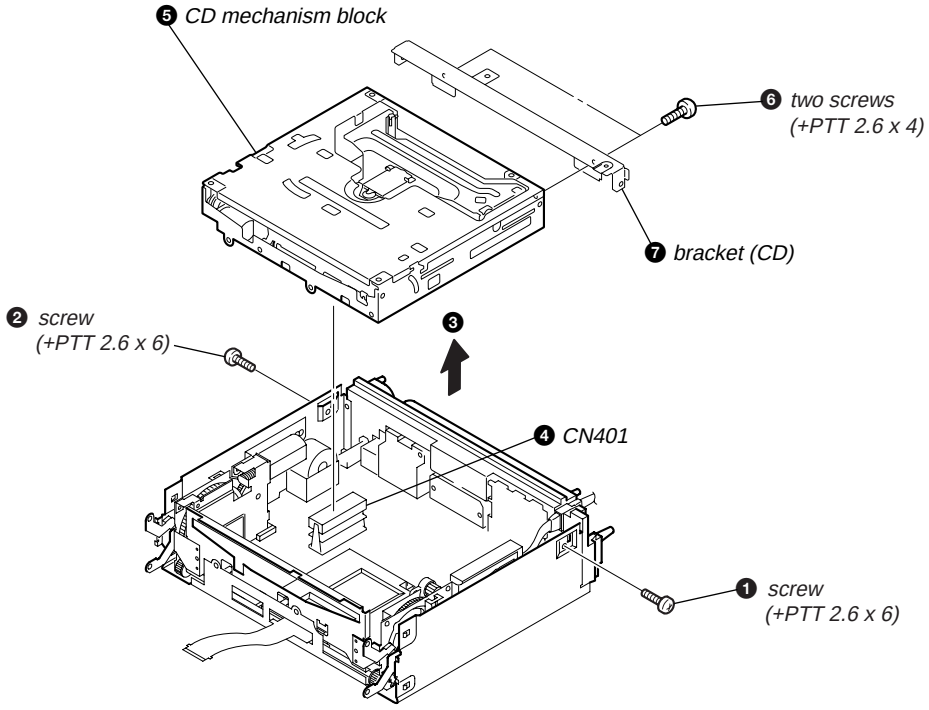
2-1. FRONT PANEL ASSY



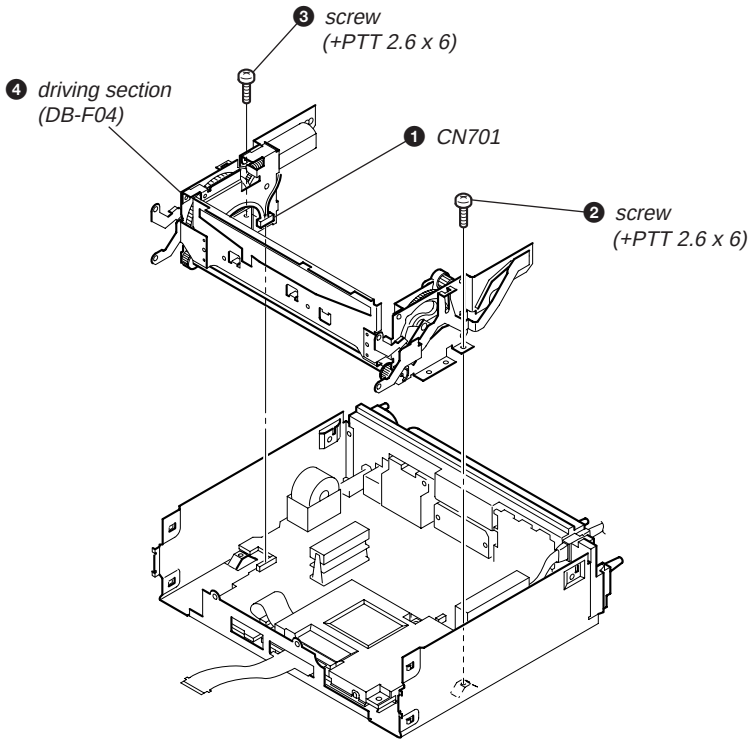
2-2. SUB PANEL ASSY



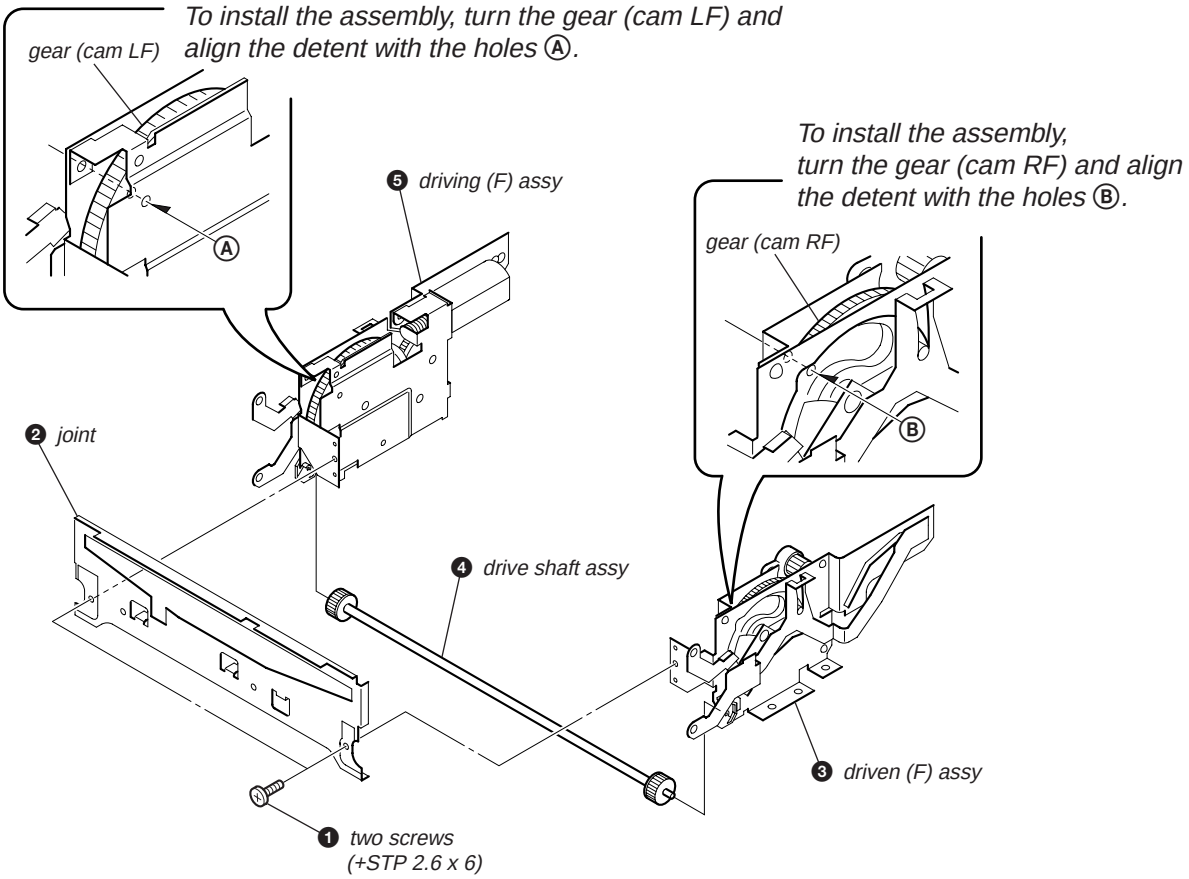
2-3. CD MECHANISM BLOCK



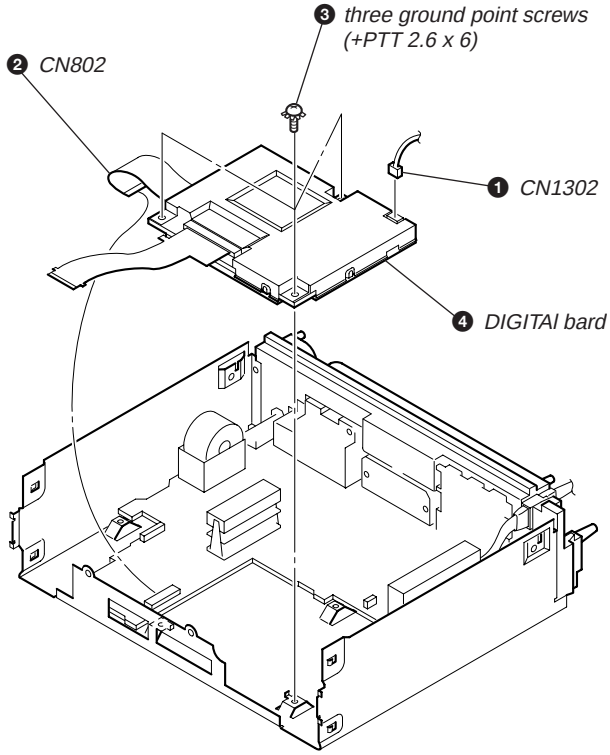
2-4. DRIVING SECTION



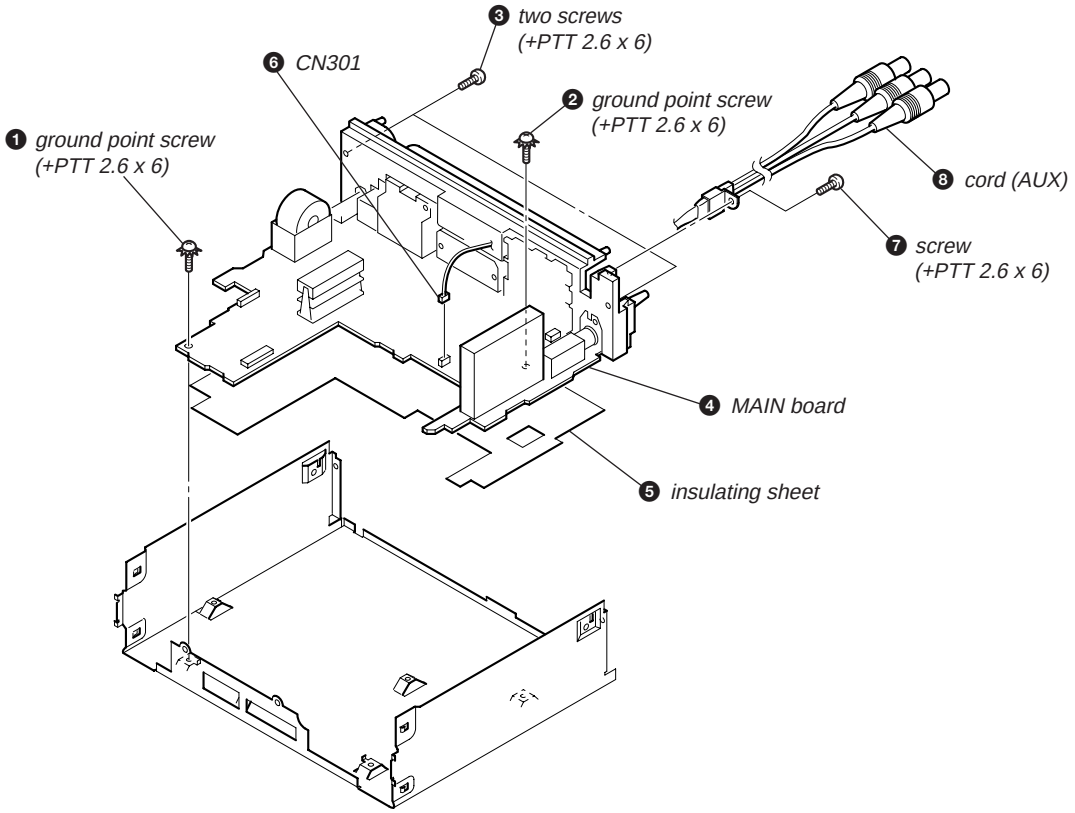
2-5. DRIVEN (F) ASSY, DRIVING (F) ASSY



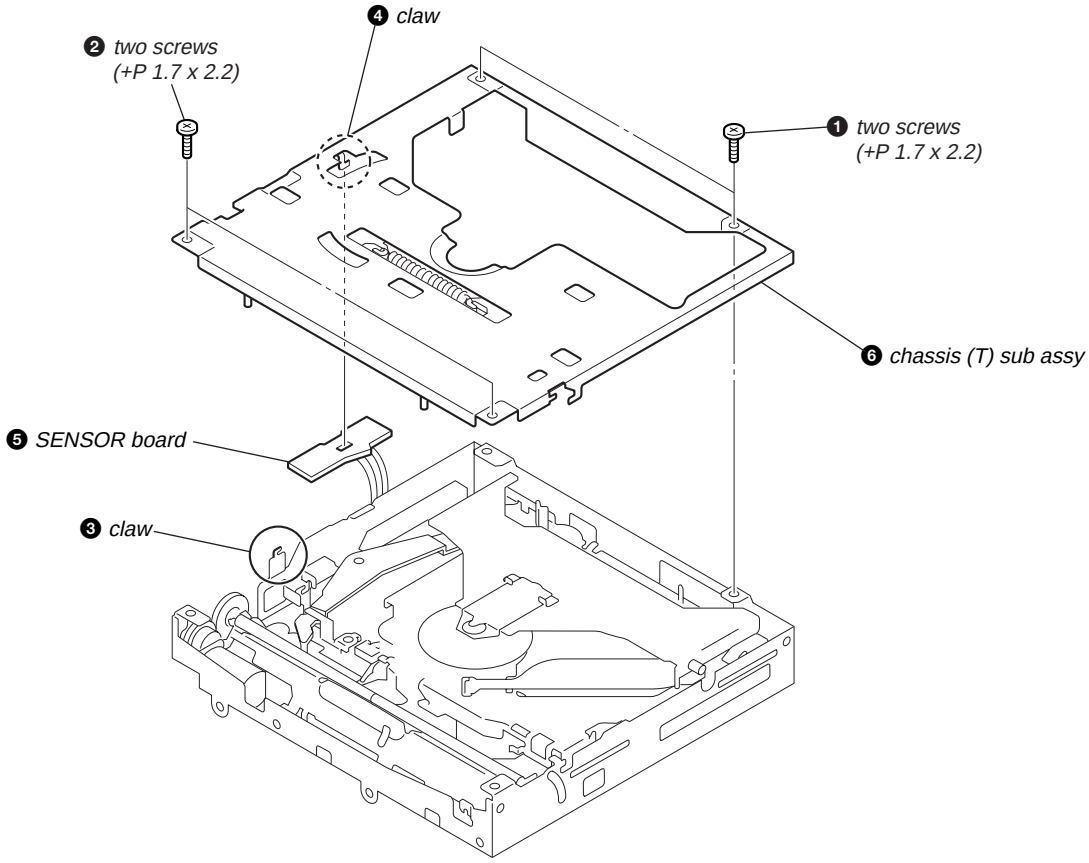
2-6. DIGITAL BOARD



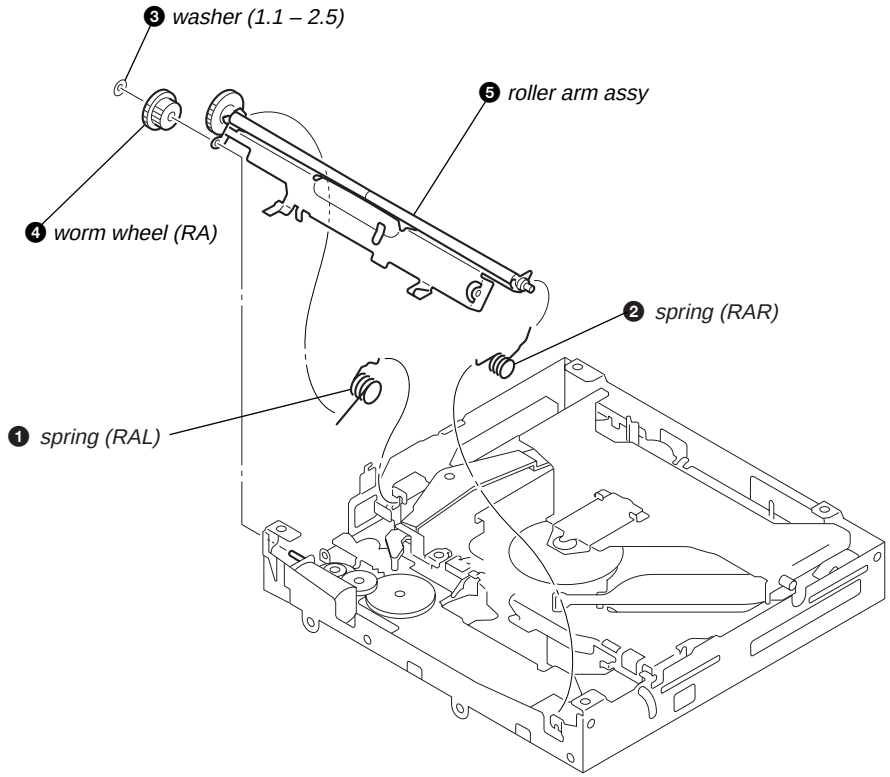
2-7. MAIN BOARD



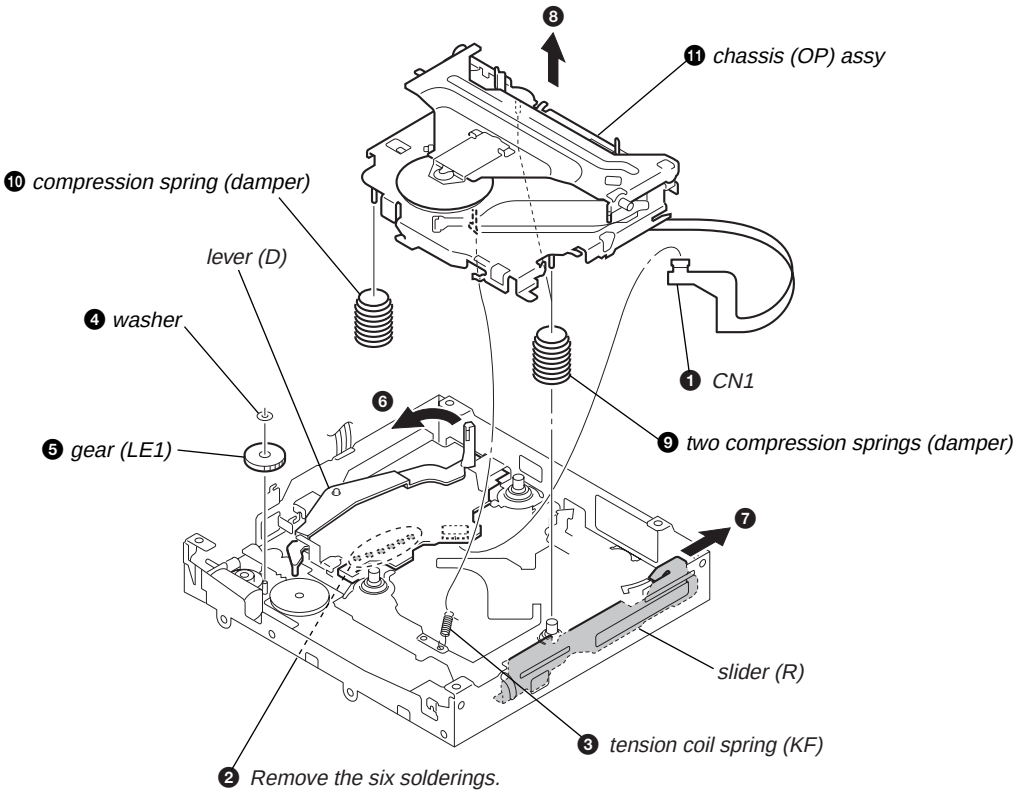
2-8. CHASSIS (T) SUB ASSY



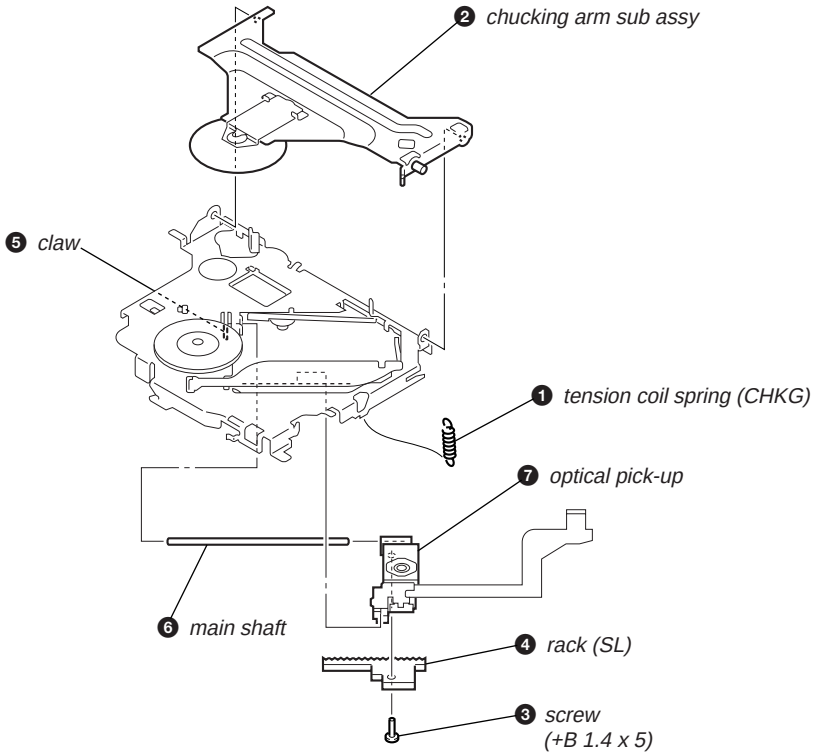
2-9. ROLLER ARM ASSY



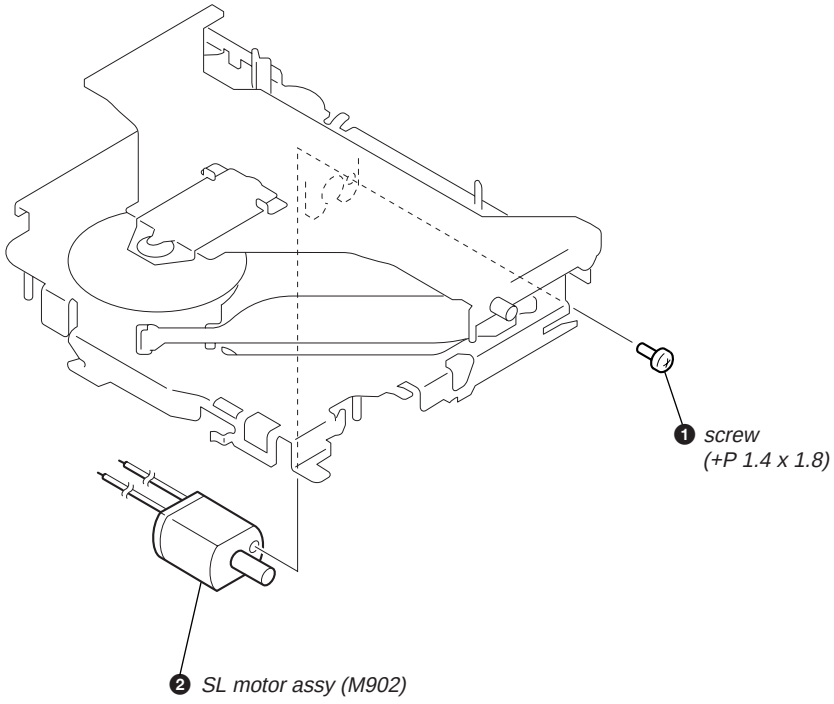
2-10. CHASSIS (OP) ASSY



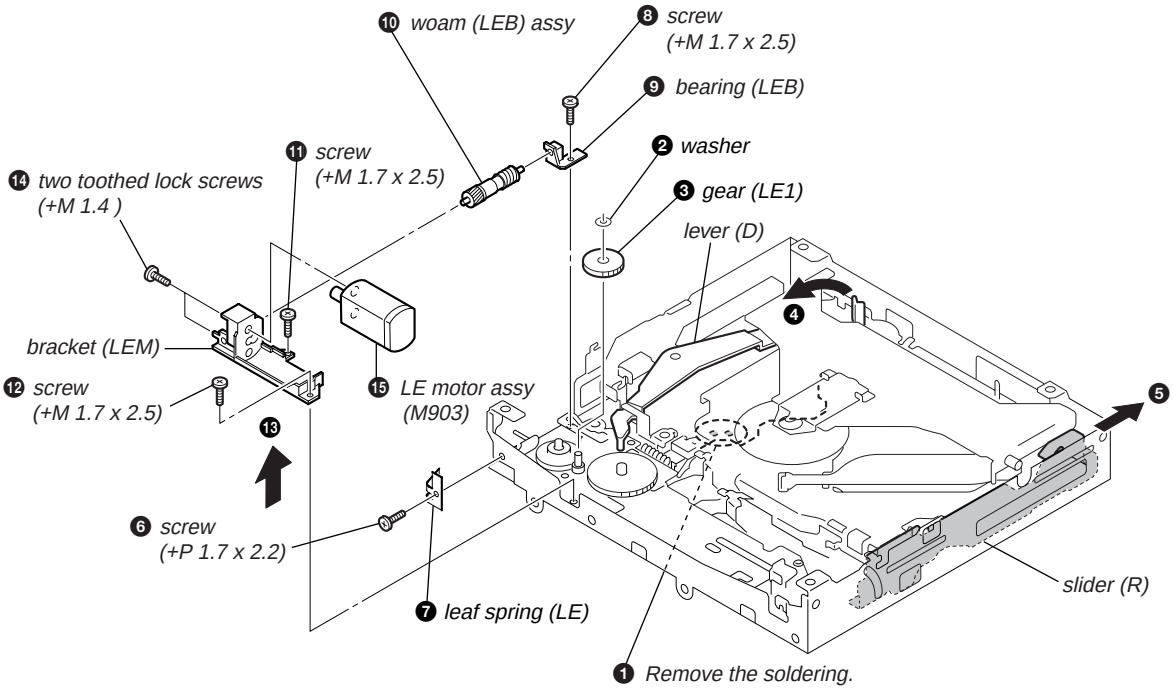
2-11. OPTICAL PICK-UP



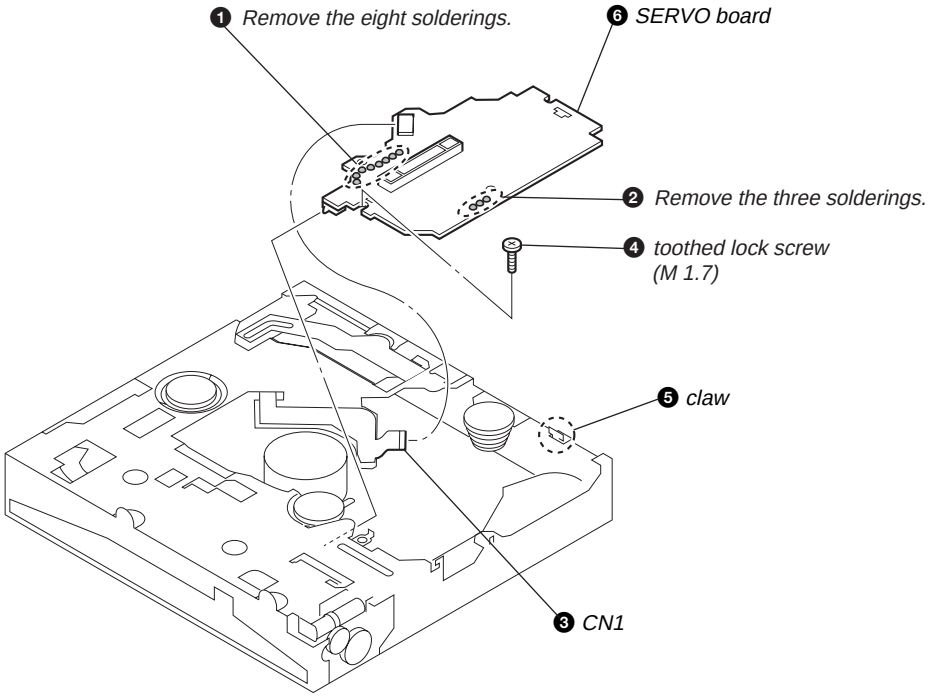
2-12. SL MOTOR ASSY (M902)



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	Mirrer 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 suming 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 comparate 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

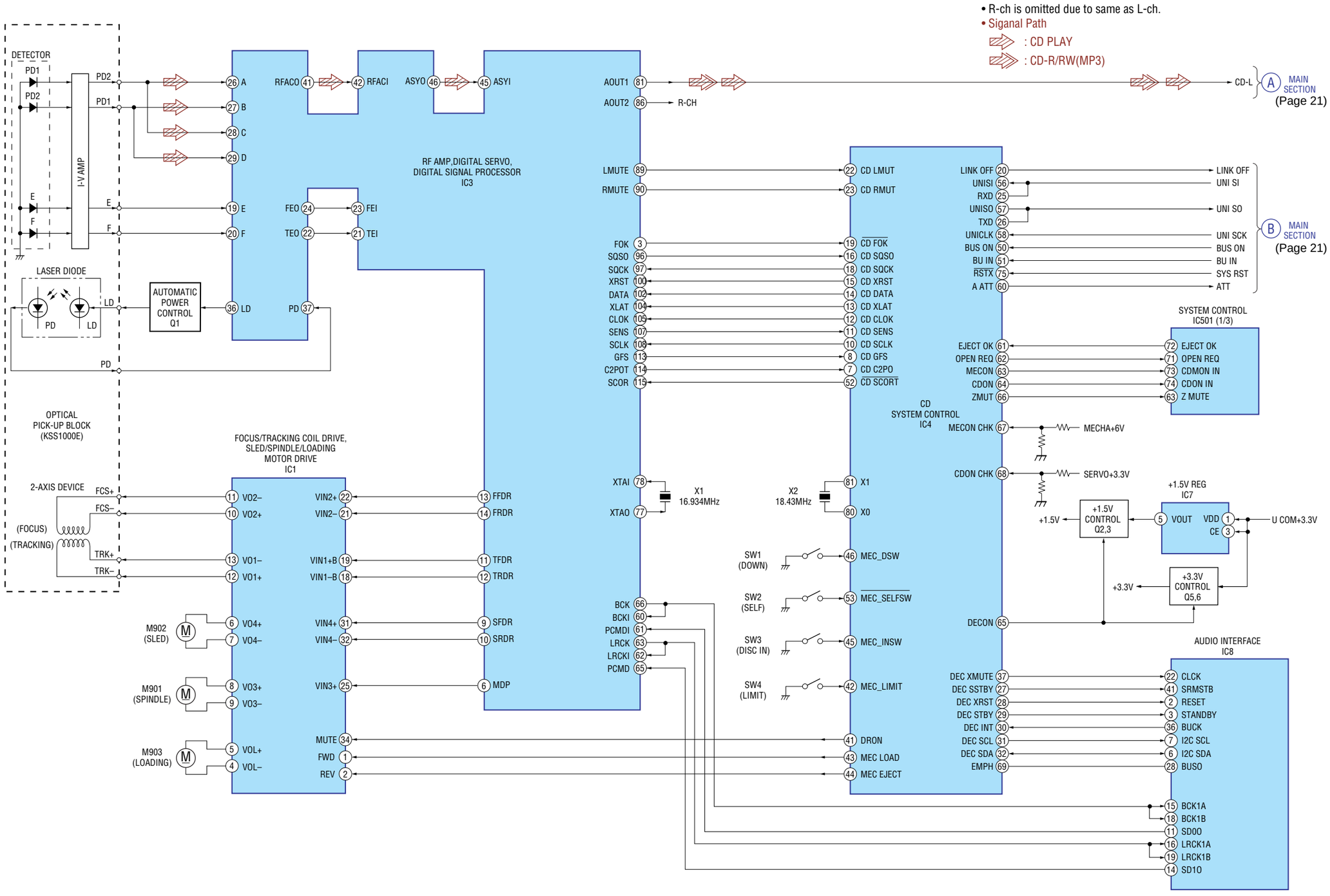
Pin No.	Pin Name	I/O	Pin Description
104	XLAT	I	Latch signal input
105	CLOK	I	Serial data transfer clock signal input
106	VDD	—	Digital power supply pin for internal
107	SENS	O	SENS signal output
108	SCLK	I	Clock signal input for SENS serial data read out
109	ATSK	I/O	Input/output for anti-shock
110	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)

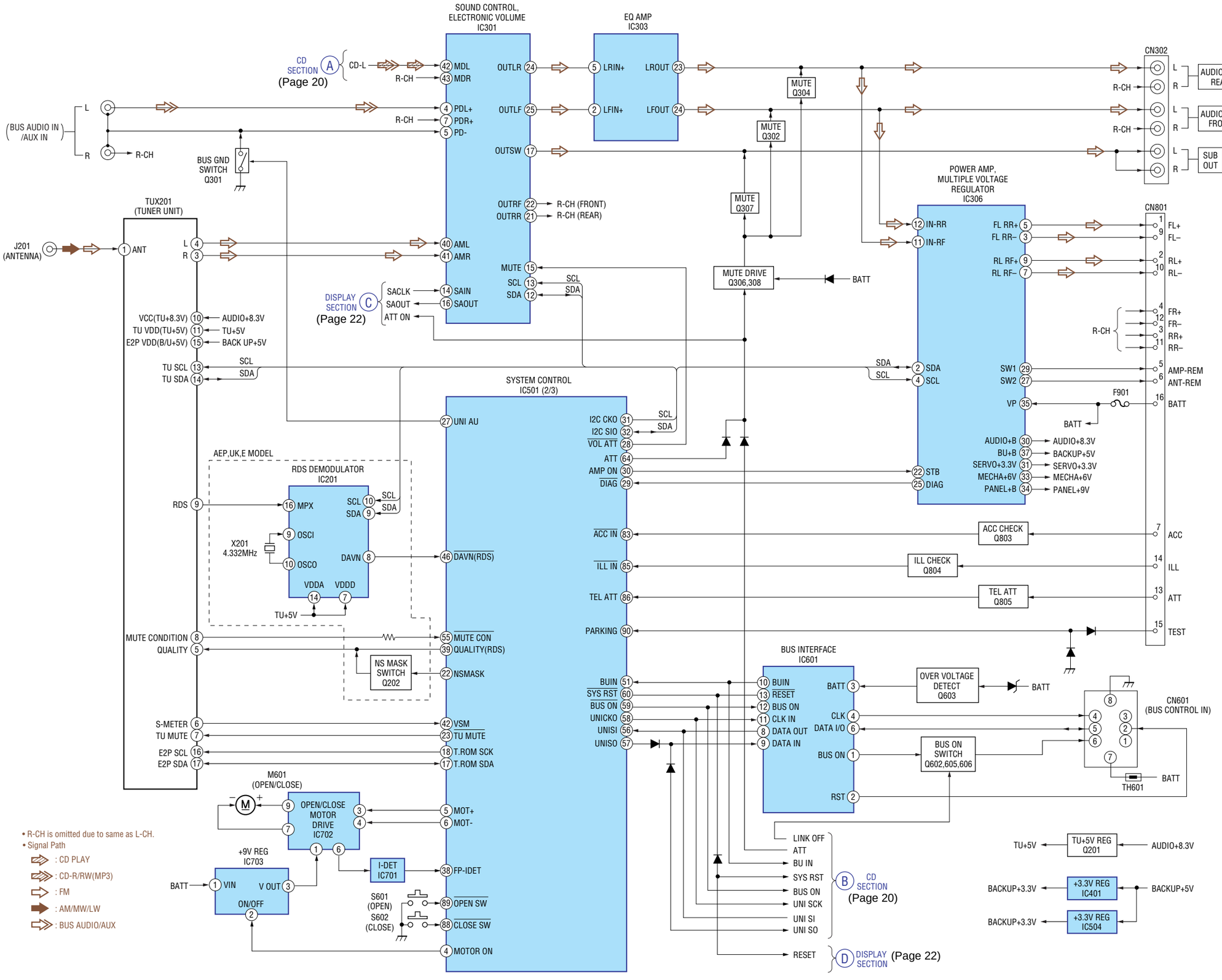
Pin No.	Pin Name	I/O	Pin Description
1	PG	I	Power supply OK detection signal input for DC-DC converter
2	FLASH P ON	O	Flash write communication signal change control signal output L: SH-3 communication, H: PC Ver. UP communication
3	BEEP	O	BEEP signal output Used to PPG function.
4	MOTOR ON	O	Motor power 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	ENCSW1	I	ENC switch 1 signal input
12	ENCSW2	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	$\overline{\text{TU MUTE}}$	O	Tuner mute signal output
24	$\overline{\text{FLASHW}}$	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	$\overline{\text{VOLATT}}$	O	Electronic volume mute signal output
29	$\overline{\text{DIAG}}$	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	$\overline{\text{DAVN (RDS)}}$	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	$\overline{\text{MUTE CON}}$	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	$\overline{\text{BUSON}}$	O	BUS ON control signal output
60	$\overline{\text{SYSRST}}$	O	System reset signal output
61	$\overline{\text{AD ON}}$	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	$\overline{\text{RAMBU}}$	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	$\overline{\text{ACCIN}}$	I	ACC power supply detection signal input L: ACC on
84	$\overline{\text{TESTIN}}$	I	Test mode setting detection signal input
85	$\overline{\text{ILLIN}}$	I	ILL line detection signal input L: Dimmer on
86	TELATT	I	TEL mute detection signal input
87	$\overline{\text{RC IN1}}$	I	Rotary commander signal input
88	$\overline{\text{CLOSE SW}}$	I	Open/close panel position detection signal input
89	$\overline{\text{OPEN SW}}$	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

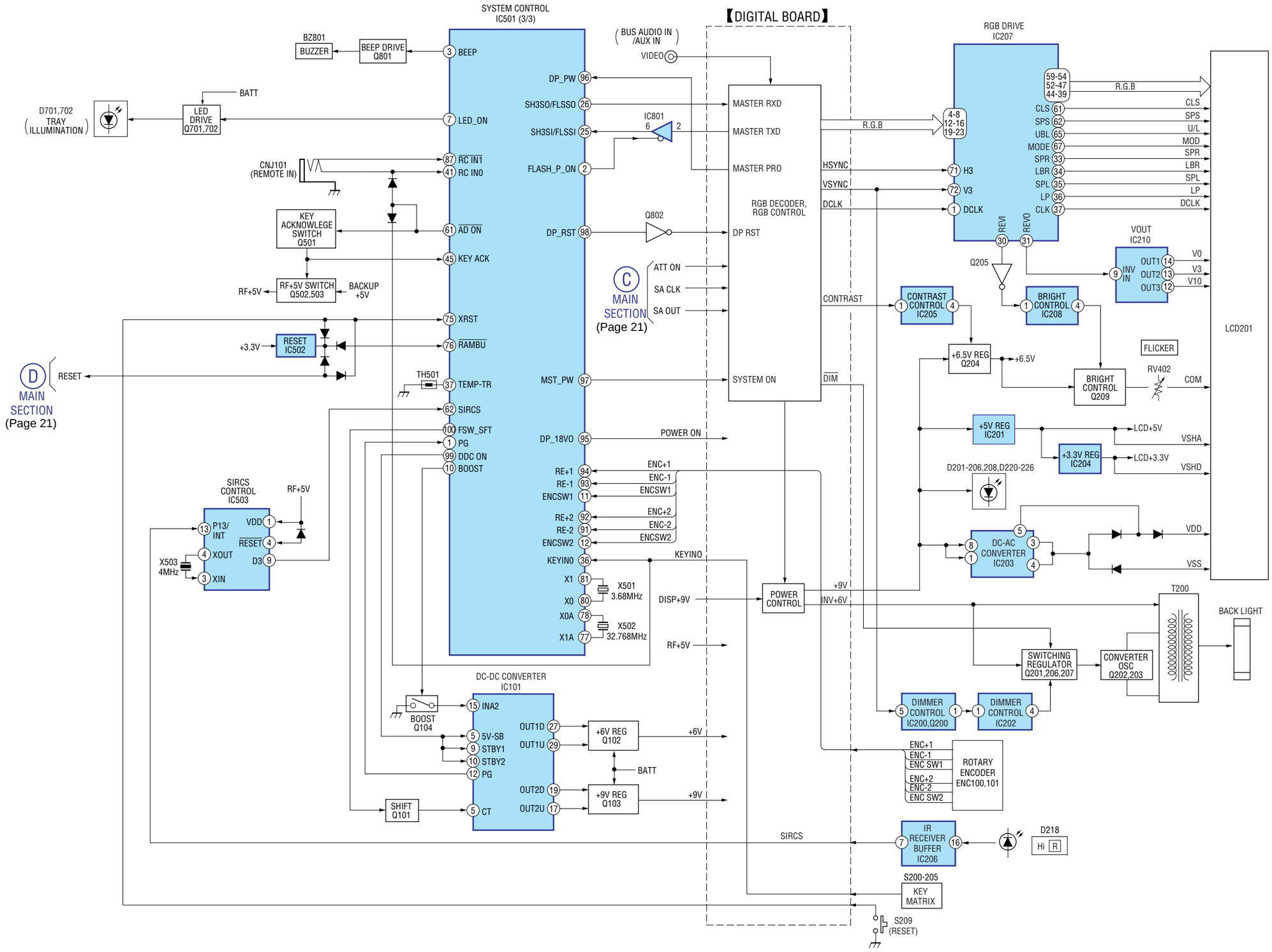
3-2. BLOCK DIAGRAM — CD SECTION —



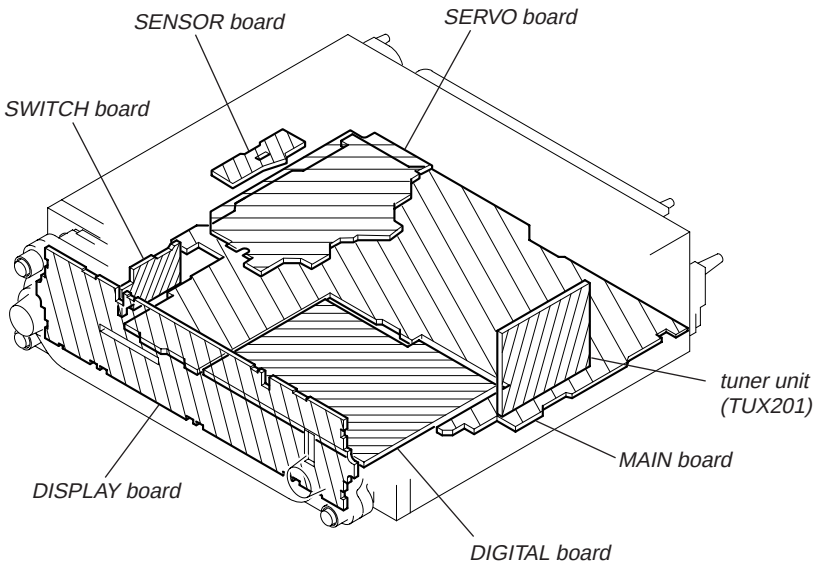
3-3. BLOCK DIAGRAM — MAIN SECTION —



3-4. BLOCK DIAGRAM — DISPLAY SECTION —



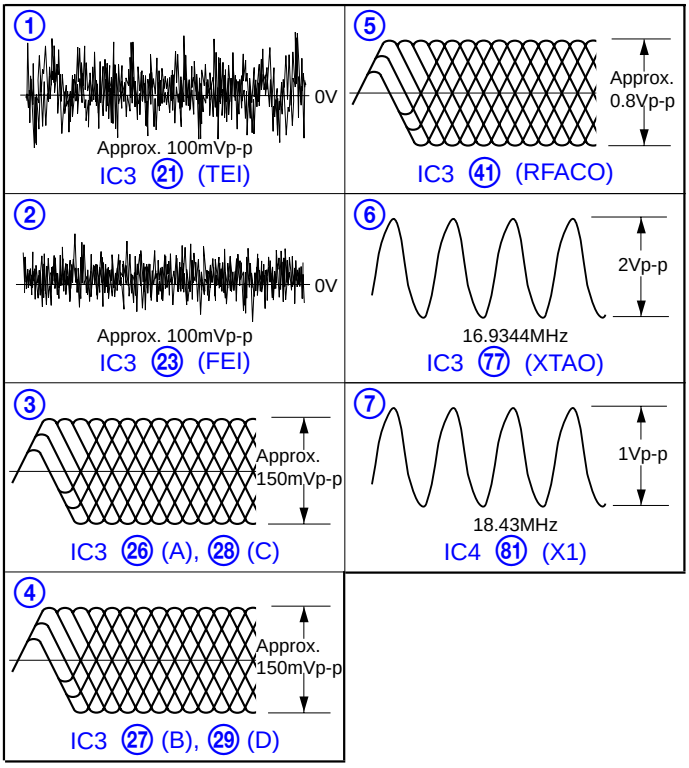
3-5. CIRCUIT BOARDS LOCATION



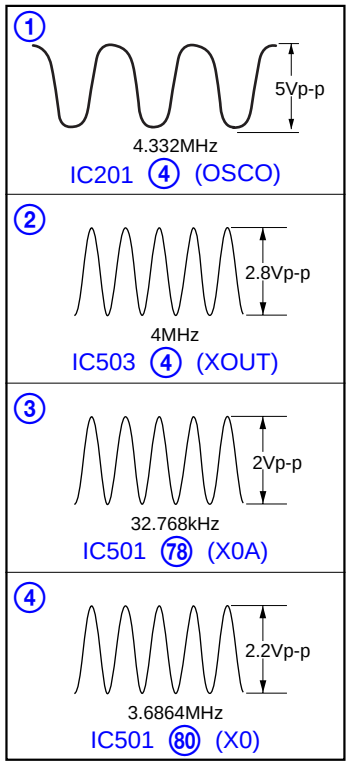
3-6. WAVEFORMS

— 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: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note:	**Note:**
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 piéce 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 MΩ). 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.

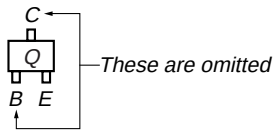
For printed wiring boards.

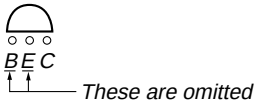
Note:

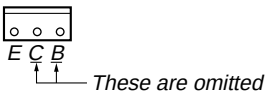
- o——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ○ : Through hole.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

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

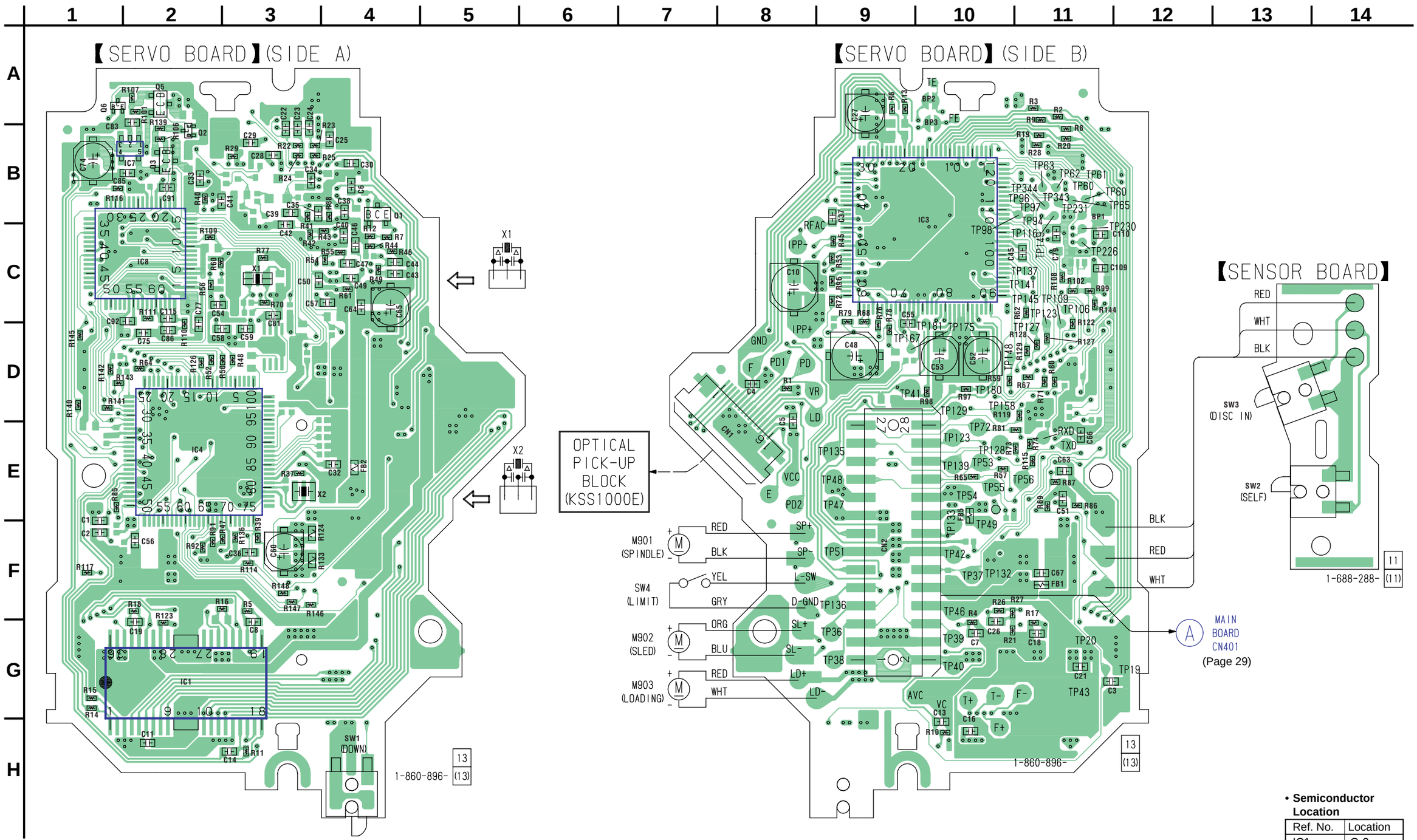






- Abbreviation
  CND : Canadian model.

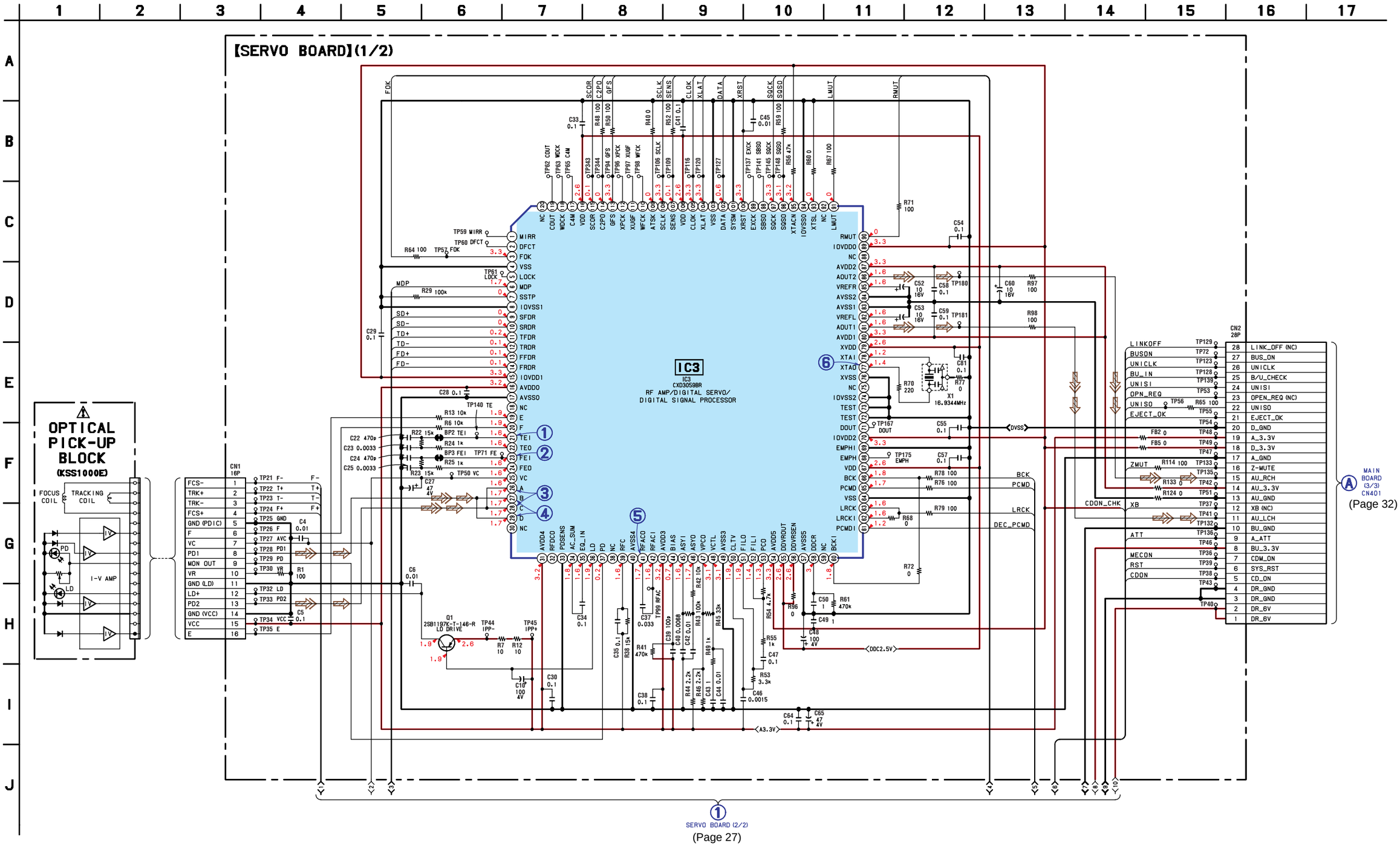
3-8. PRINTED WIRING BOARDS — CD MECHANISM SECTION — • Refer to page 23 for Circuit Boards Location. : Uses unleaded solder.



- **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

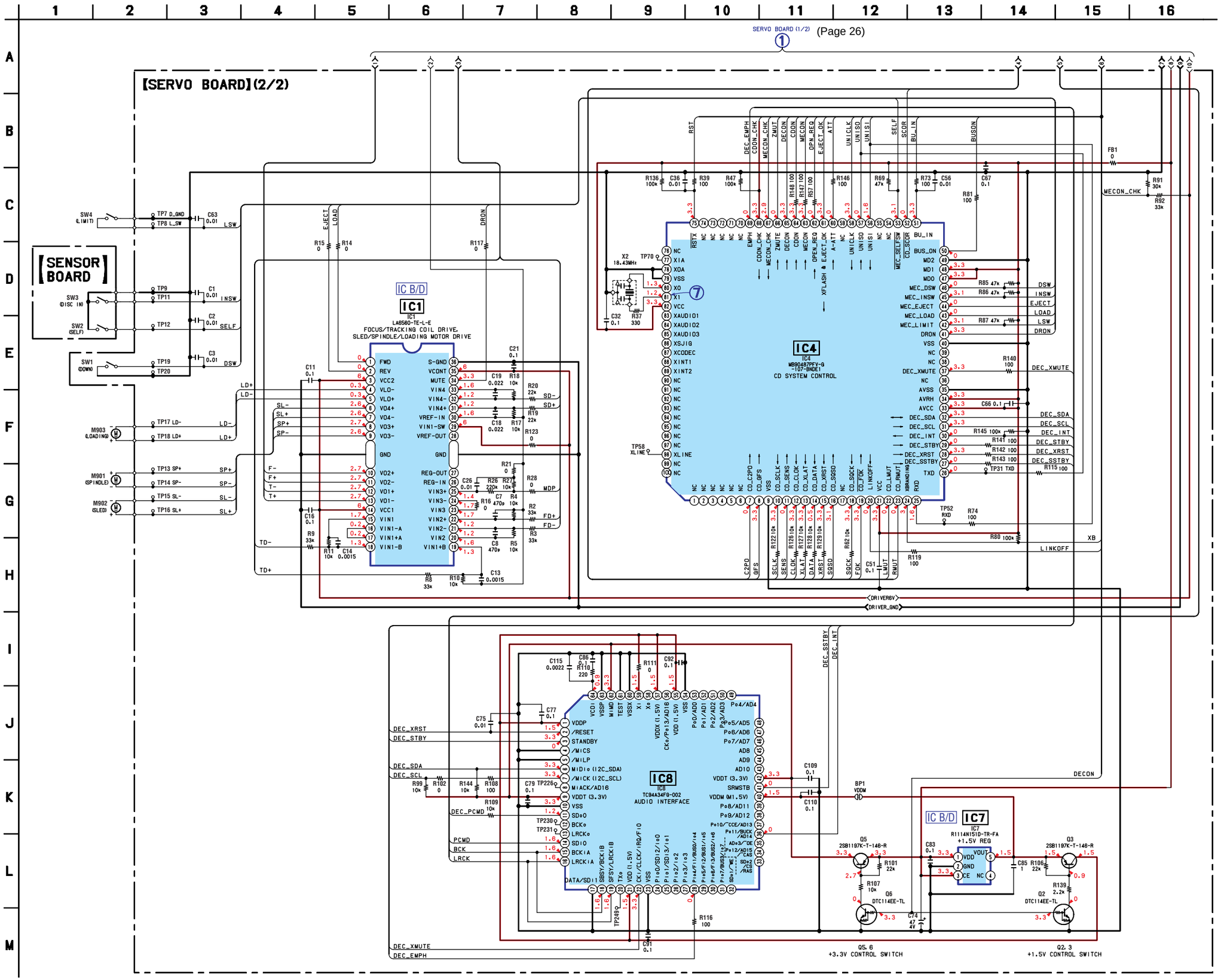
3-9. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (1/2) — • Refer to page 23 for Waveforms.



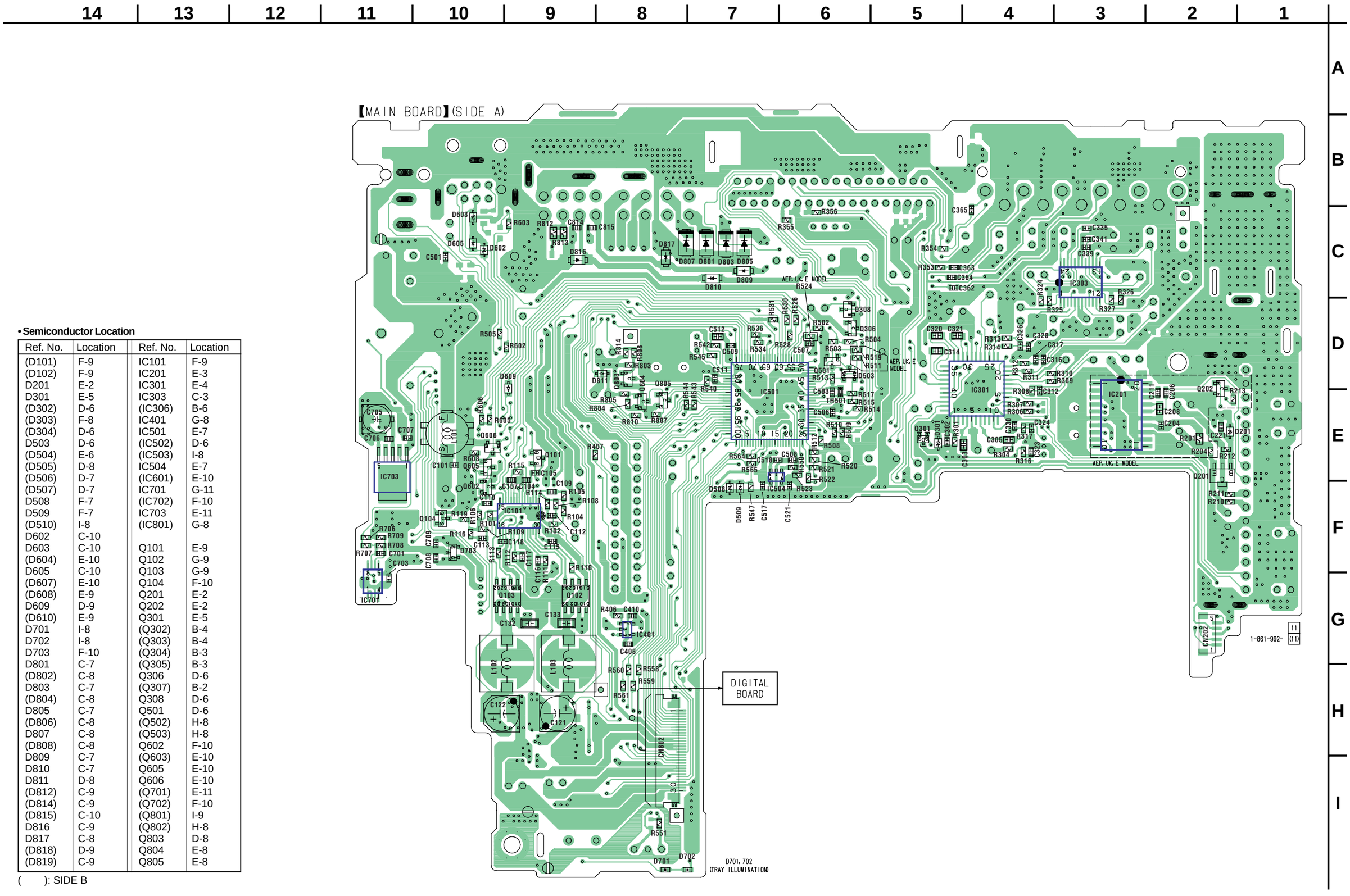
• Refer to page 23 for Waveform.

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.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
(D101)	F-9	IC101	F-9
(D102)	F-9	IC201	E-3
D201	E-2	IC301	E-4
D301	E-5	IC303	C-3
(D302)	D-6	(IC306)	B-6
(D303)	F-8	IC401	G-8
(D304)	D-6	IC501	E-7
D503	D-6	(IC502)	D-6
(D504)	E-6	(IC503)	I-8
(D505)	D-8	IC504	E-7
(D506)	D-7	(IC601)	E-10
(D507)	D-7	IC701	G-11
D508	F-7	(IC702)	F-10
D509	F-7	IC703	E-11
(D510)	I-8	(IC801)	G-8
D602	C-10		
D603	C-10	Q101	E-9
(D604)	E-10	Q102	G-9
D605	C-10	Q103	G-9
(D607)	E-10	Q104	F-10
(D608)	E-9	Q201	E-2
D609	D-9	Q202	E-2
(D610)	E-9	Q301	E-5
D701	I-8	(Q302)	B-4
D702	I-8	(Q303)	B-4
D703	F-10	(Q304)	B-3
D801	C-7	(Q305)	B-3
(D802)	C-8	Q306	D-6
D803	C-7	(Q307)	B-2
(D804)	C-8	Q308	D-6
D805	C-7	Q501	D-6
(D806)	C-8	(Q502)	H-8
D807	C-8	(Q503)	H-8
(D808)	C-8	Q602	F-10
D809	C-7	(Q603)	E-10
D810	C-7	Q605	E-10
D811	D-8	Q606	E-10
(D812)	C-9	(Q701)	E-11
(D814)	C-9	(Q702)	F-10
(D815)	C-10	(Q801)	I-9
D816	C-9	(Q802)	H-8
D817	C-8	Q803	D-8
(D818)	D-9	Q804	E-8
(D819)	C-9	Q805	E-8

( ): SIDE B

【MAIN BOARD】
(SIDE B)

J201
(ANTENNA)

CN302
SUB OUT (MONO)
AUDIO OUT
REAR
FRONT

CN304
CN303
CNJ101
(REMOTE IN)
CN601
(BUS CONTROL IN)
CN801

US,CND,E MODEL
RFC-5
GND BATT ACC
ANT REM ILL AMP REM ATT
FRONT R-CH (+) FRONT R-CH (-) REAR R-CH (+) REAR R-CH (-) REAR L-CH (-) REAR L-CH (+) FRONT L-CH (+) FRONT L-CH (-)

AEP,UK MODEL
BATT GND ACC ANT REM ILL AMP REM ATT
RL FL FR RR

TUX201
(TUNER UNIT)

AEP, UK, E MODEL

CN301
RED BLK WHT
R AUDIO L
(BUS AUDIO IN /AUX IN)
VIDEO
DIGITAL BOARD
YEL BLK

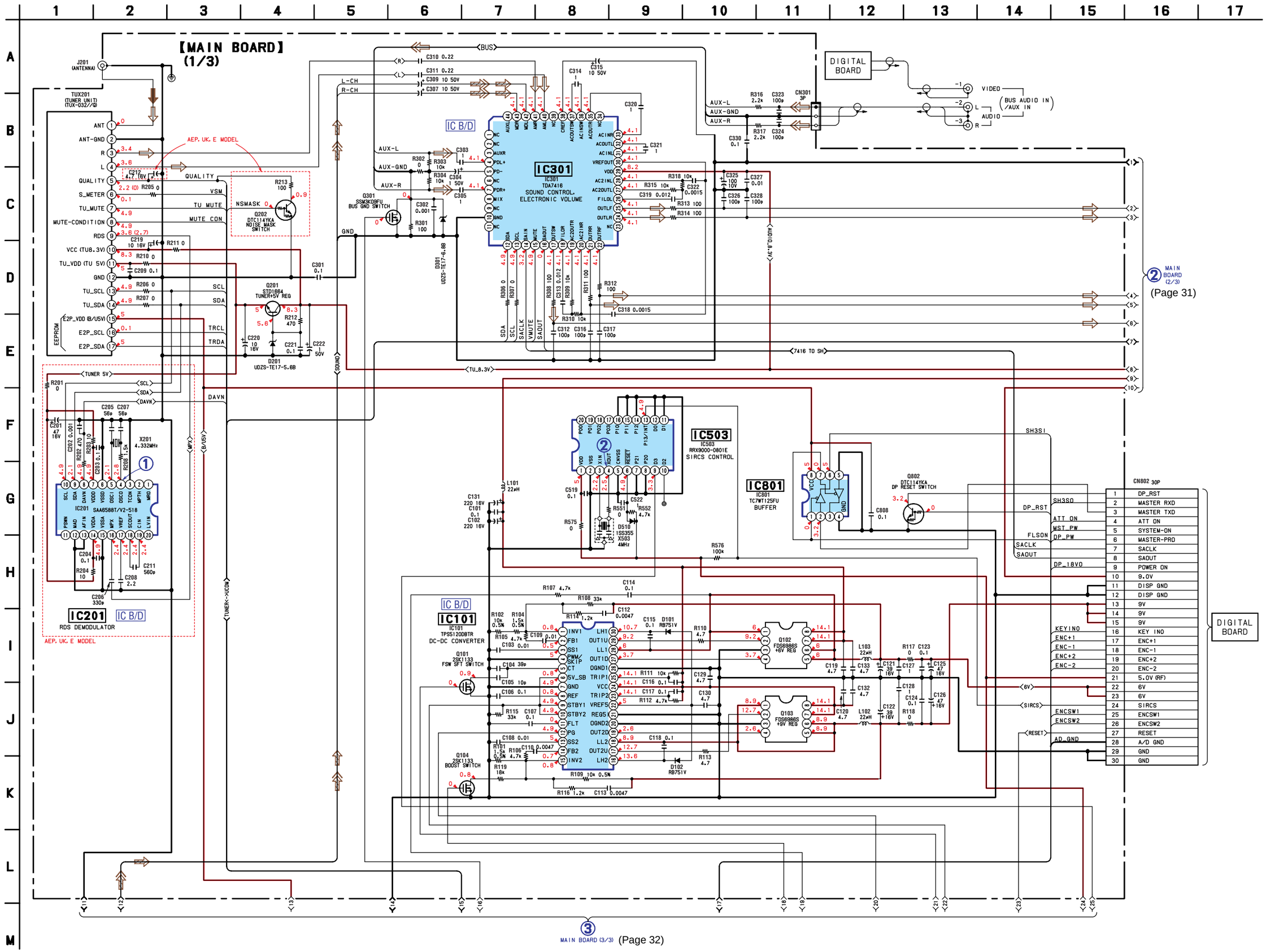
SERVO BOARD CN2
(A)
(Page 25)

M601
(OPEN/CLOSE)
CN701
WHT RED BLK BLU GRN
GRN BLK BLU
【SWITCH BOARD】

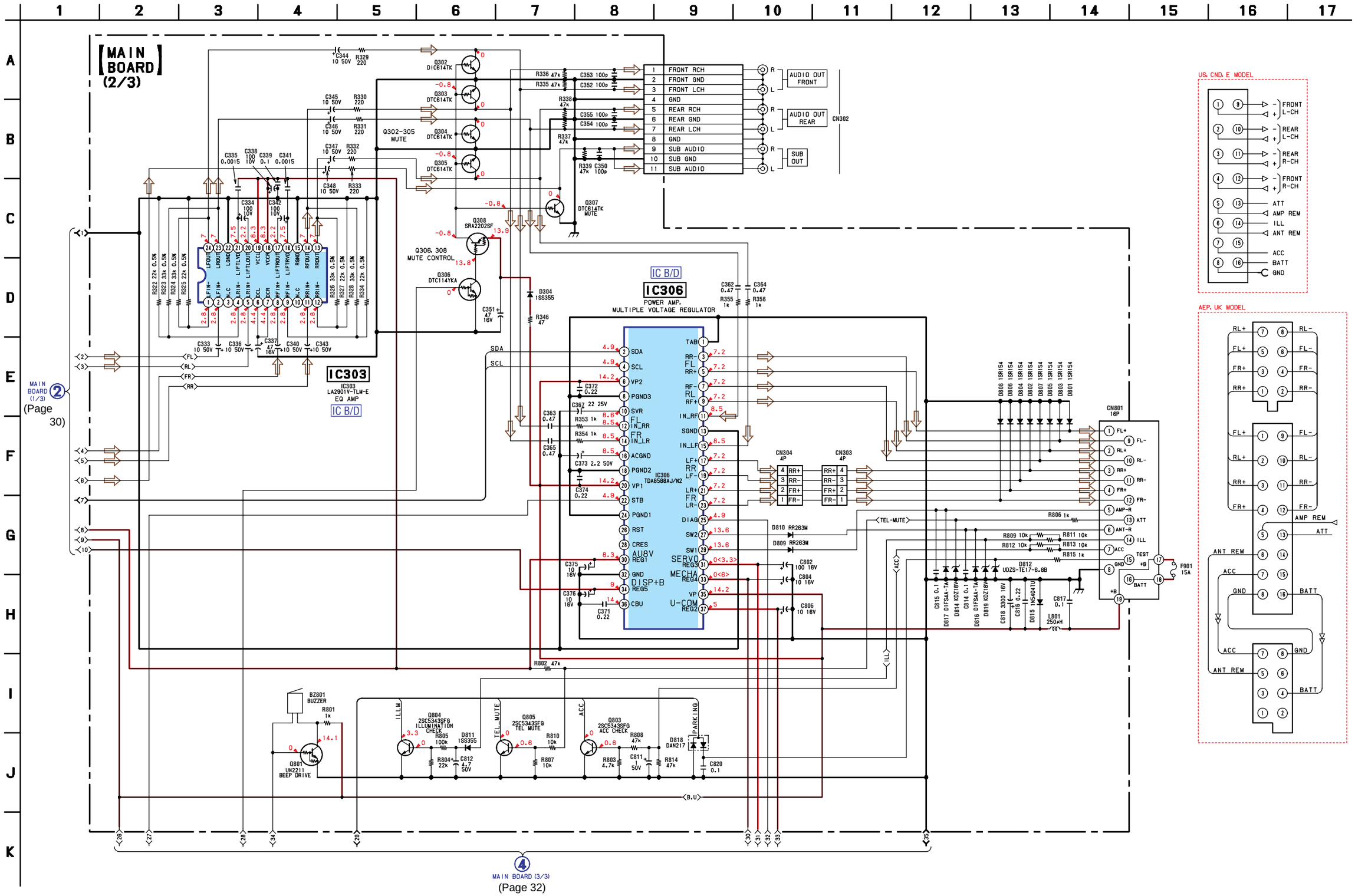
1-861-992-

• Refer to page 23 for Waveforms.
• Refer to page 36 for IC Block Diagrams.

3-12. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) —

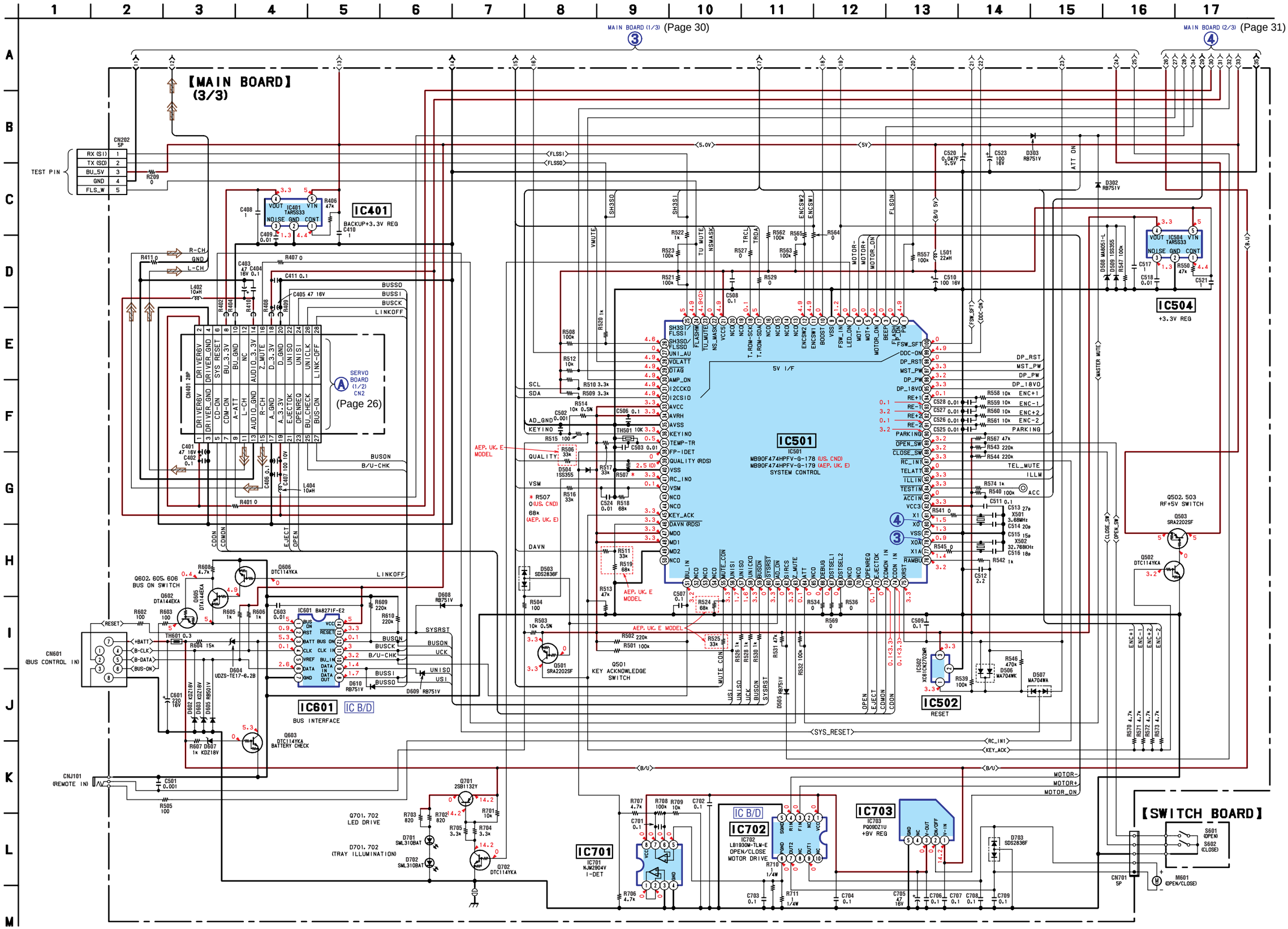


3-13. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) — • Refer to page 38 for IC Block Diagrams.

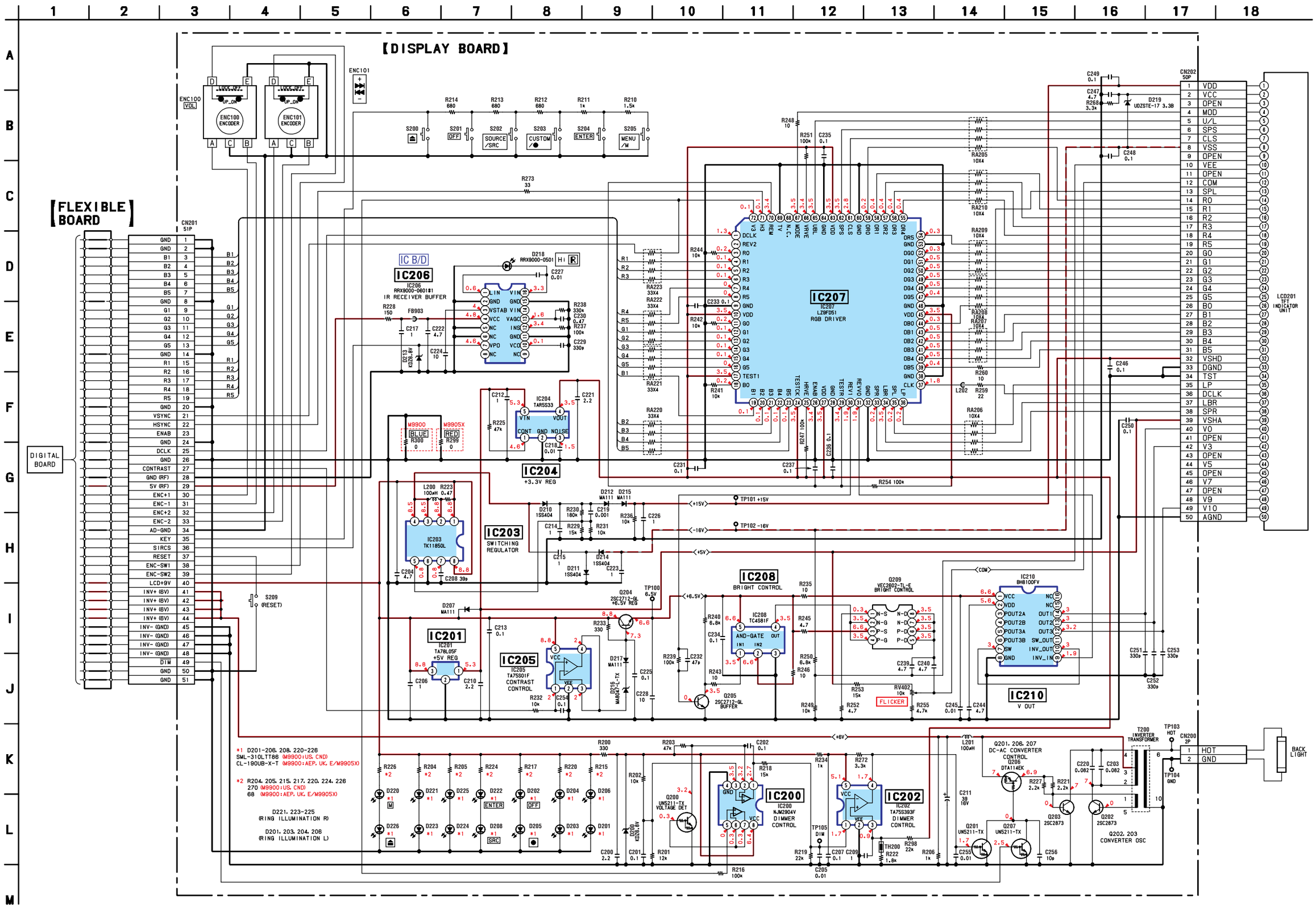


• Refer to page 23 for Waveforms.
• Refer to page 39 for IC Block Diagrams.

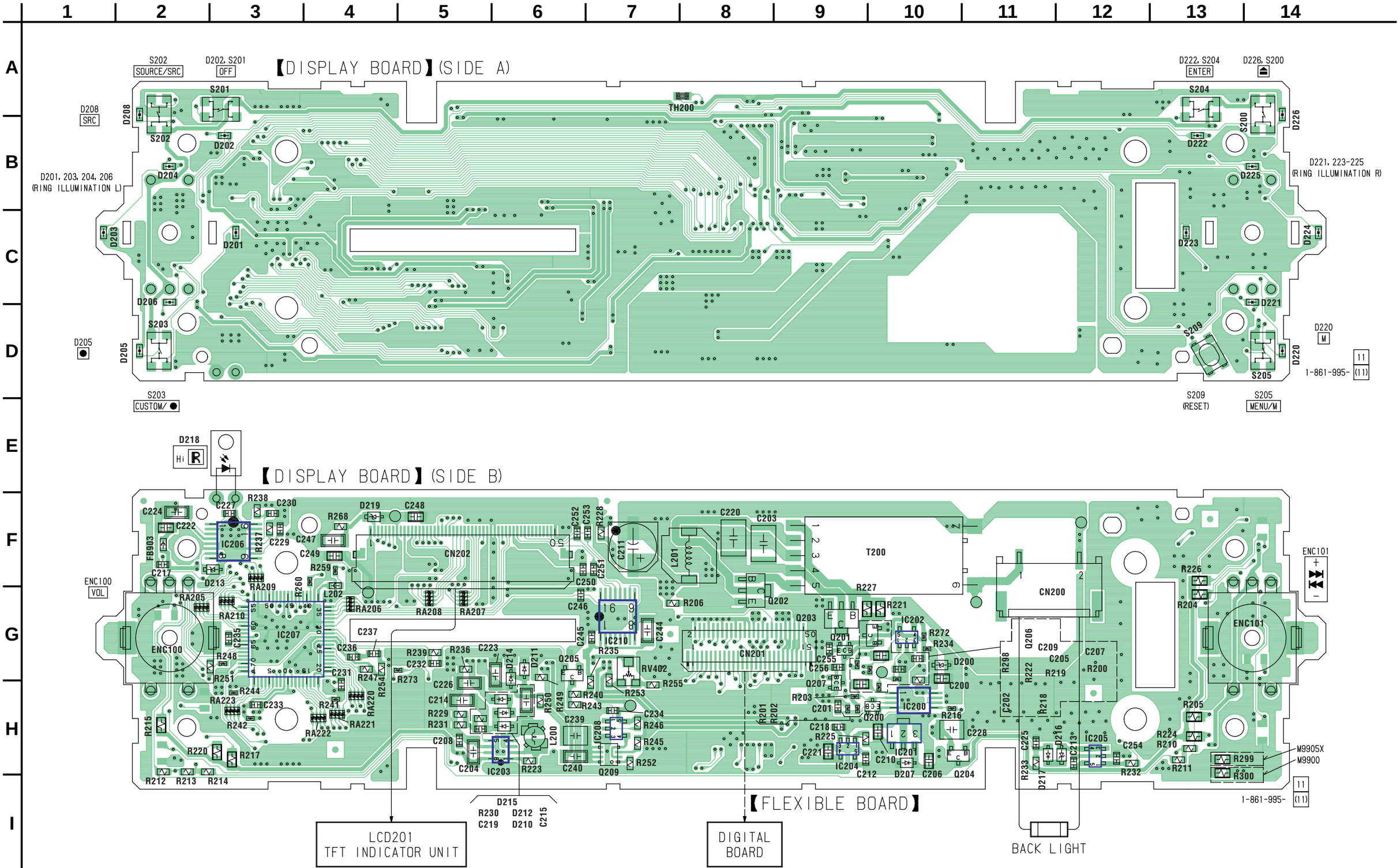
3-14. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) —



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



3-16. PRINTED WIRING BOARD — DISPLAY SECTION — • Refer to page 23 for Circuit Boards Location. : Uses unleaded solder.

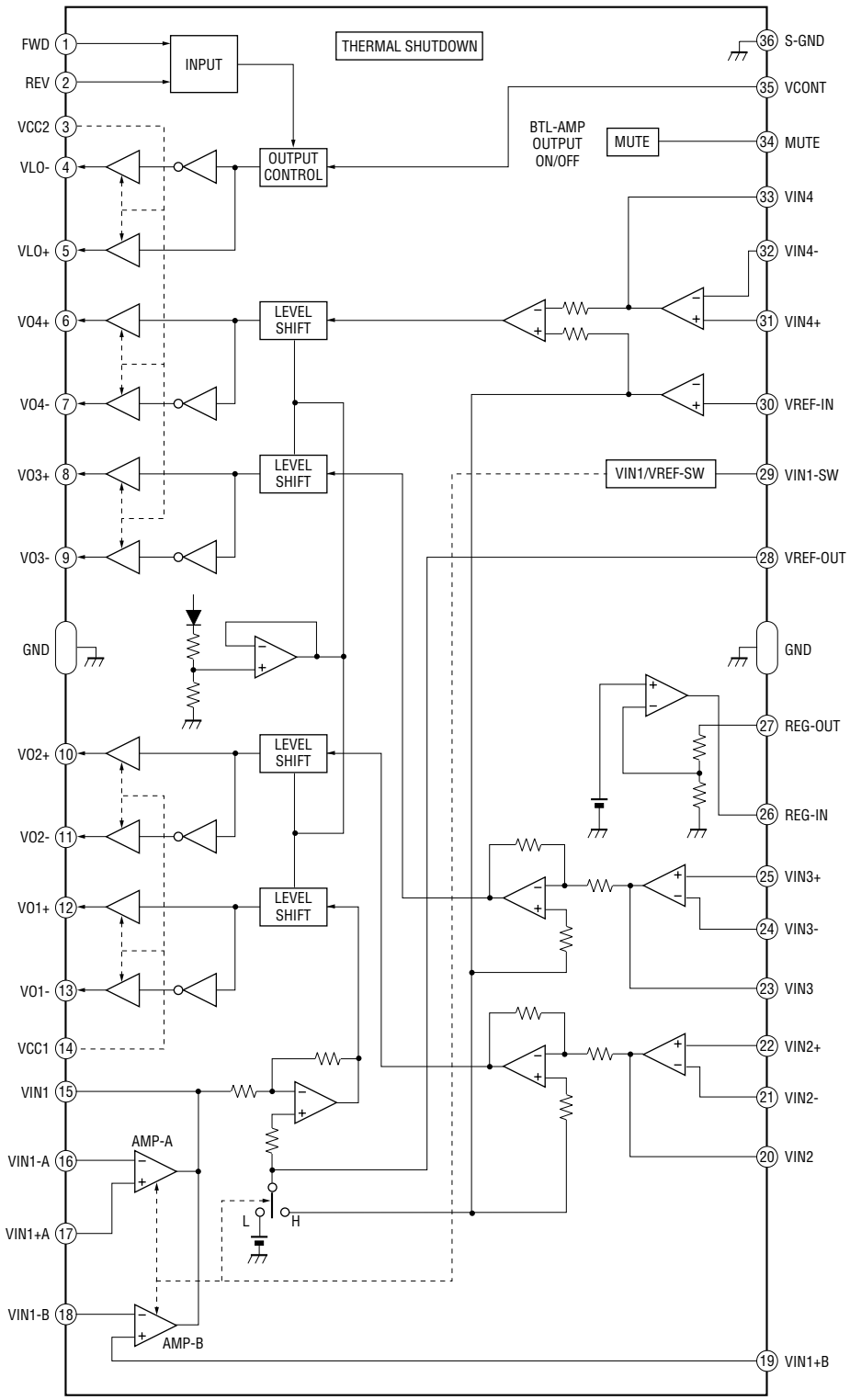


• **Semiconductor Location**

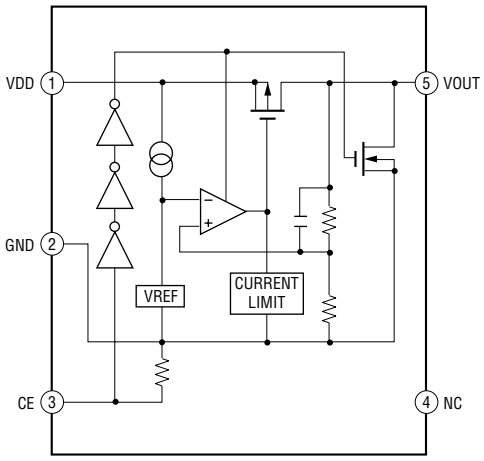
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D200	G-10	D206	C-2	D213	F-3	D219	F-4	D225	B-14	IC203	H-6	IC210	G-7	Q204	H-10
D201	C-3	D207	H-10	D214	G-6	D220	D-14	D226	B-14	IC204	H-9			Q205	G-6
D202	B-3	D208	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

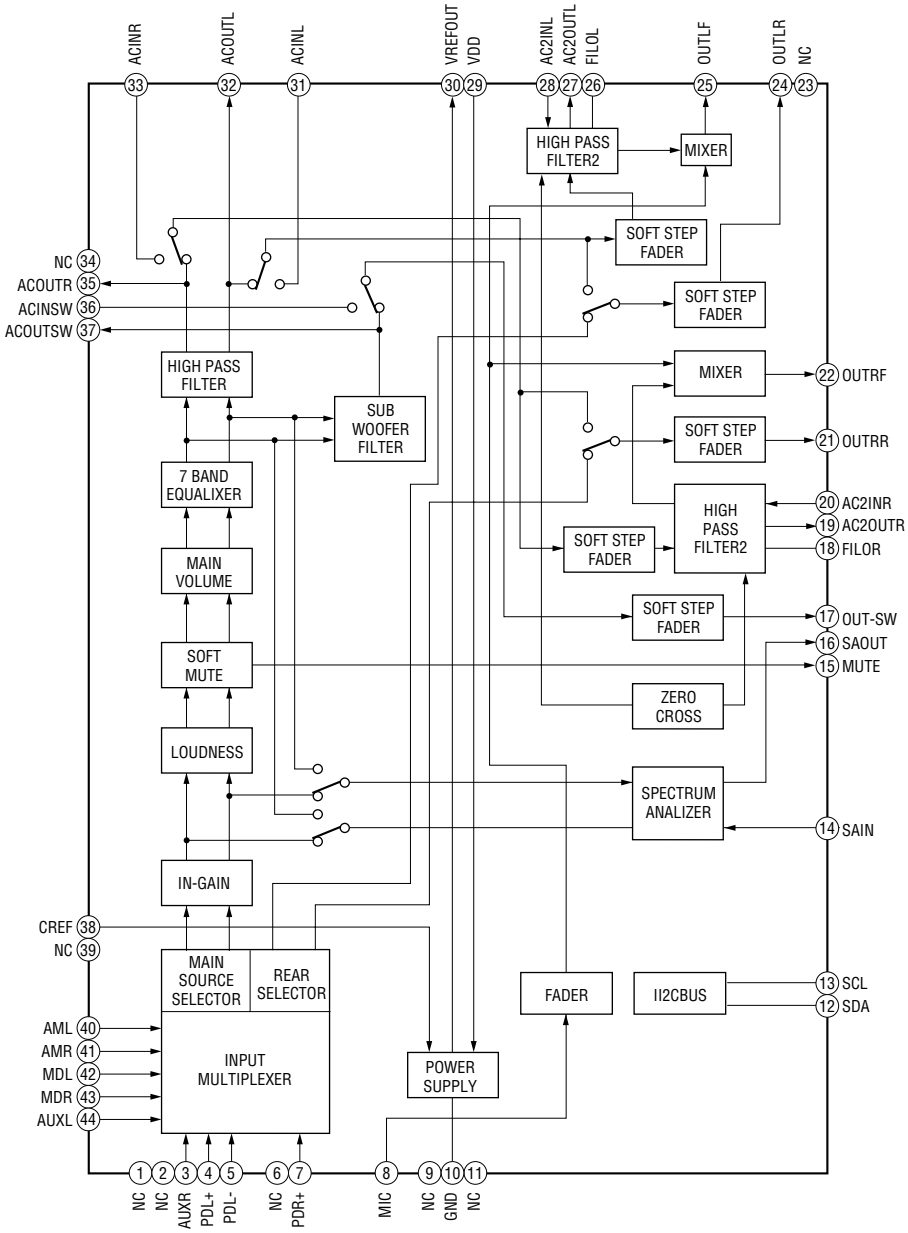
IC1 LA6560-TE-L-E (SERVO Board (2/2))



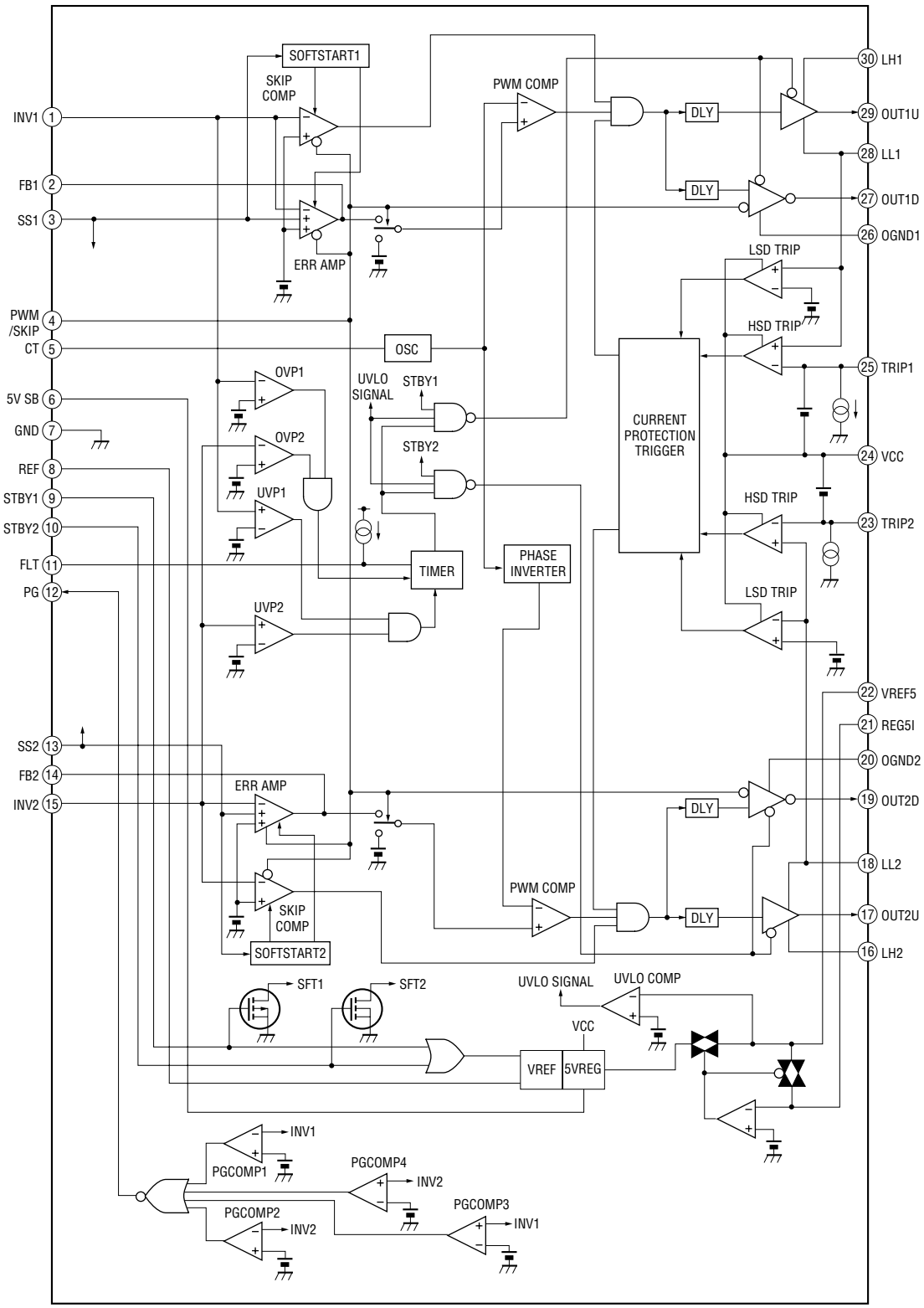
IC7 R1114N151D-TR-FA (SERVO Board (2/2))



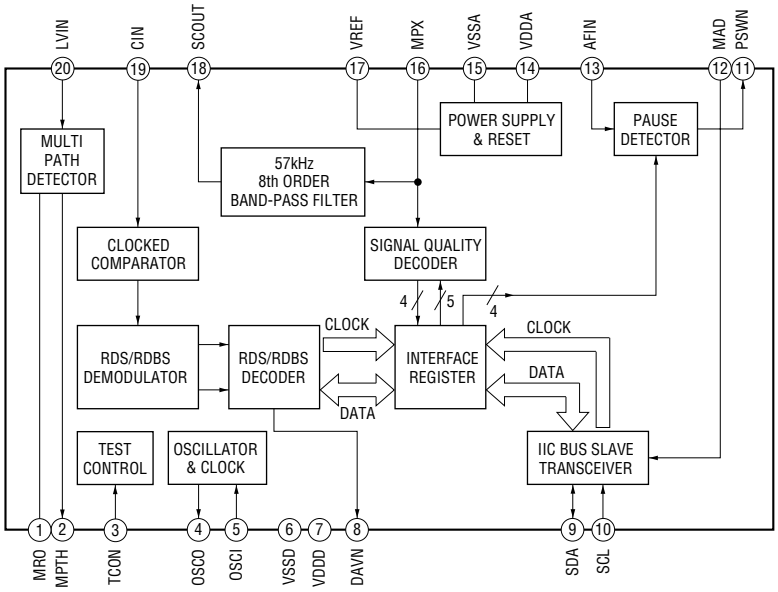
IC301 TDA7416 (MAIN Board (1/3))



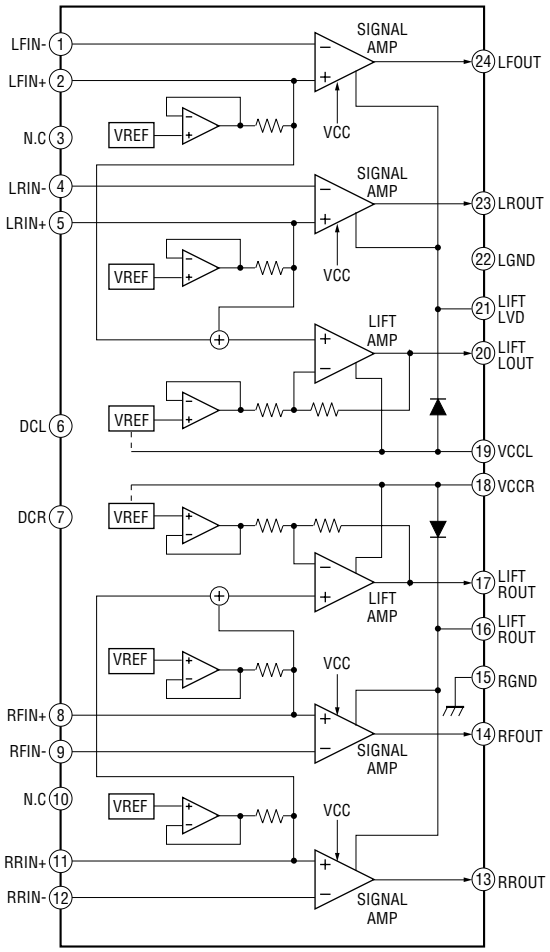
IC101 TPS5120DBTR (MAIN Board (1/3))



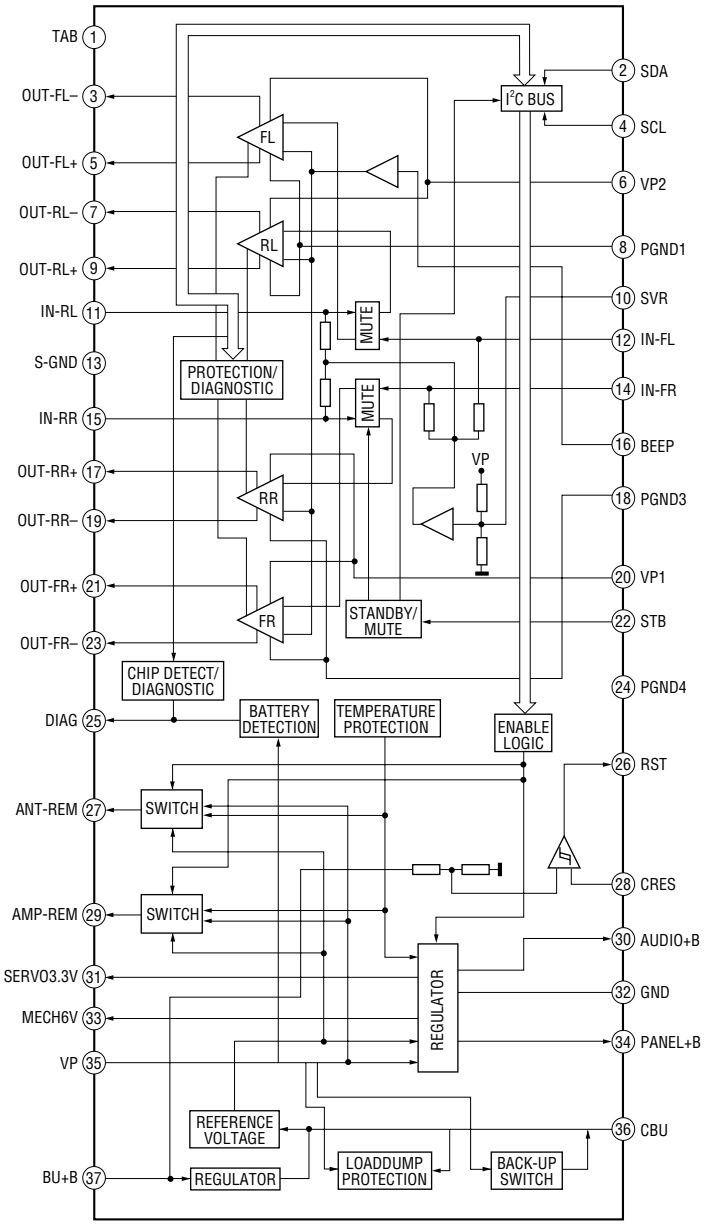
IC201 SAA6588T/V2-518 (MAIN Board (1/3))
(AEP, UK, E Model only)



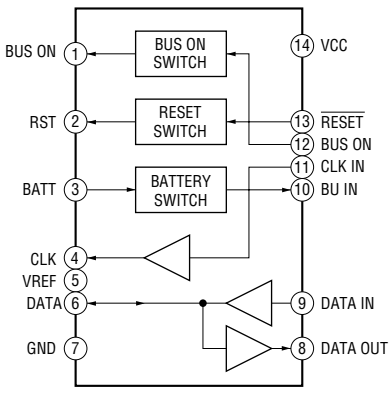
IC303 LA2901V-TLM-E (MAIN Board (2/3))



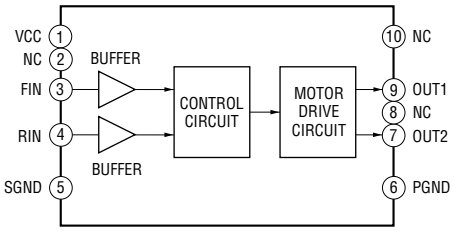
IC306 TDA8588AJ/N2 (MAIN Board (2/3))



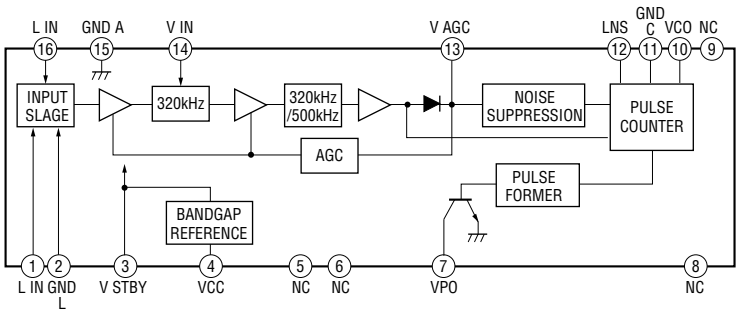
IC601 BA8271F-E2 (MAIN Board (3/3))



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



IC206 RRX9000-0601#1 (DISPLAY Board)



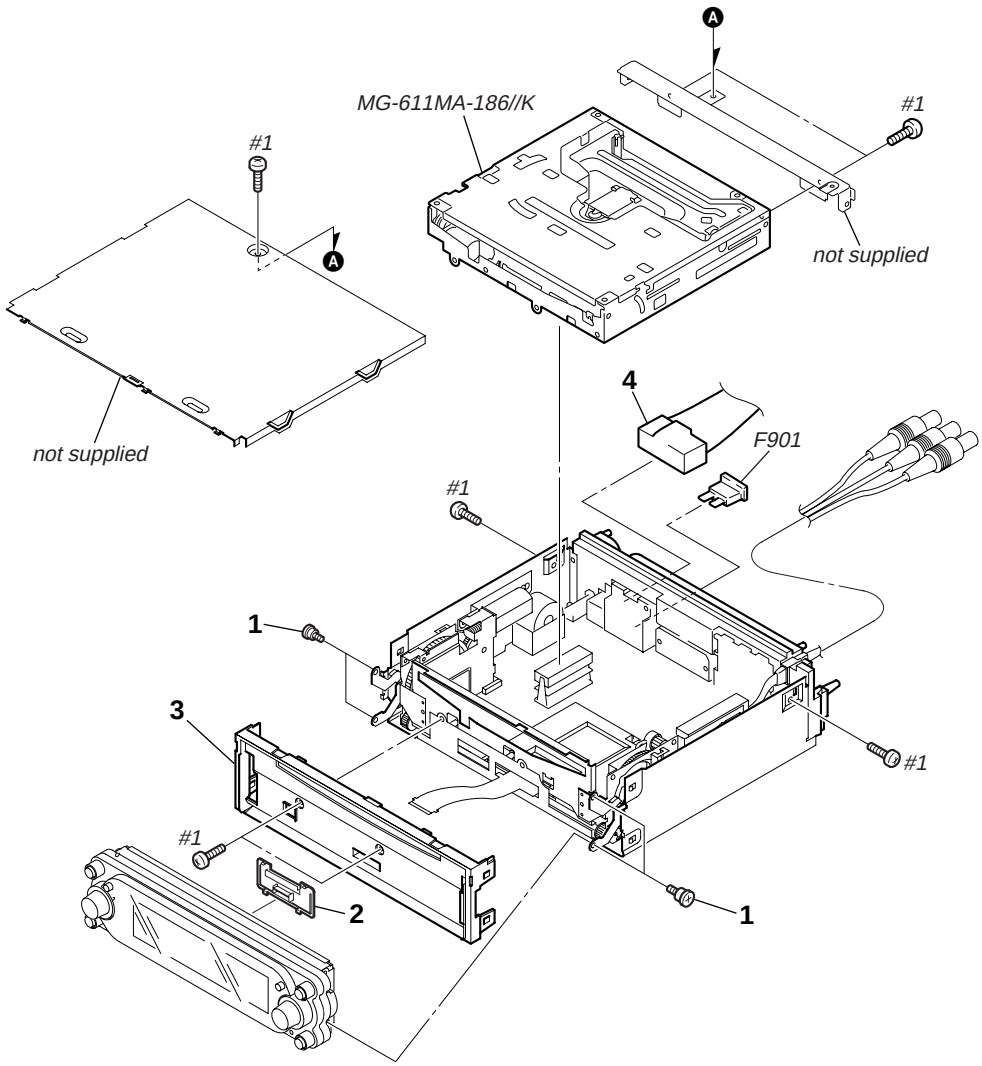
SECTION 4
EXPLODED VIEWS

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 :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ 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 piéce portant le numéro spécifié.

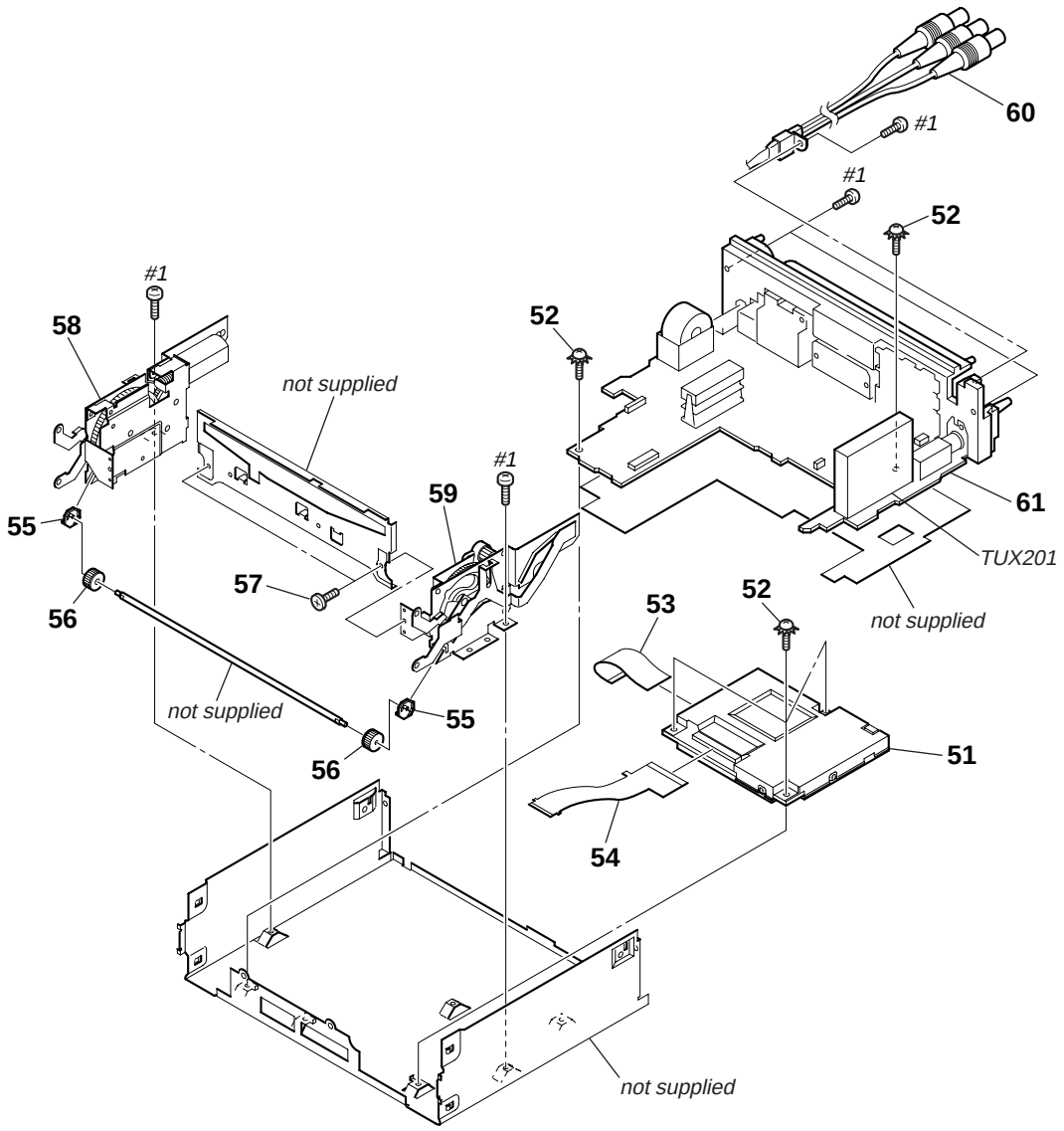
4-1. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
1	3-265-290-01	SCREW (PANEL F)	
2	3-241-832-01	COVER (FPC)	
3	X-3384-737-1	PANEL ASSY, SUB (M9900:US,CND)	
3	X-3384-915-1	PANEL ASSY, SUB (AEP,UK,E)	
3	X-3384-918-1	PANEL ASSY, SUB (M9905X)	

Ref. No.	Part No.	Description	Remark
4	A-3373-132-A	CORD ASSY (POWER) (US,CND,E)	
4	A-3373-146-A	CORD ASSY (POWER) (AEP,UK)	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	

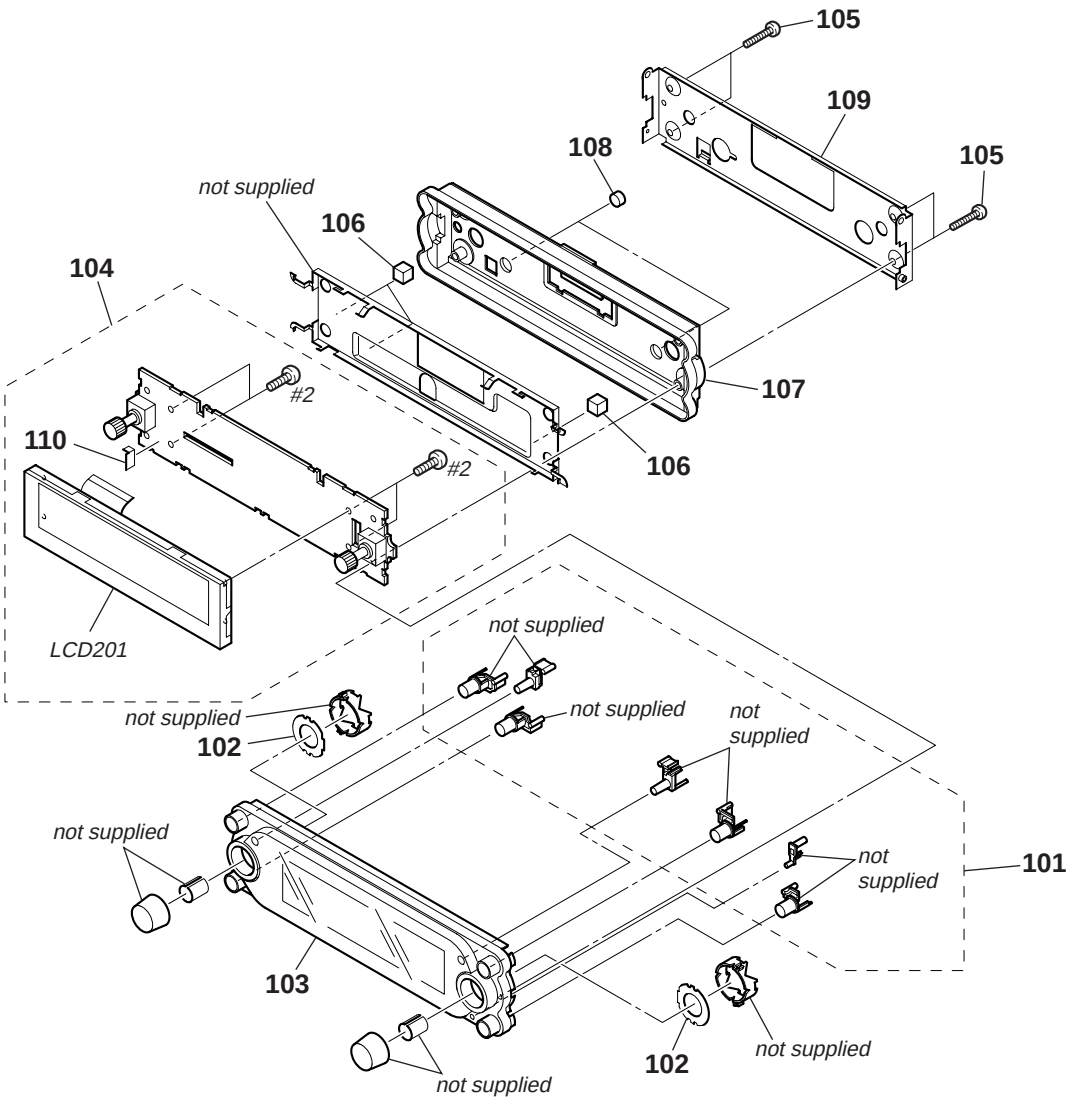
4-2. MAIN BOARD SECTION



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)	

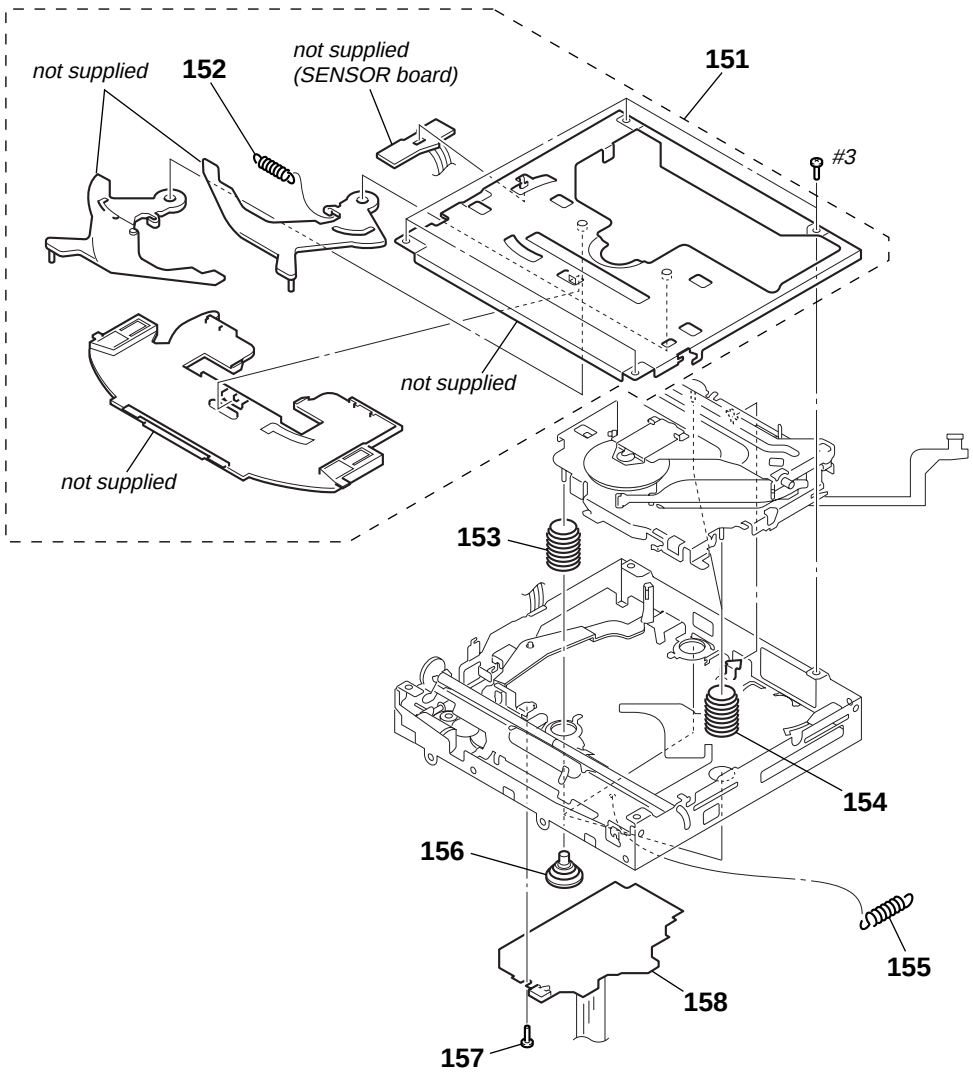
4-3. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
101	X-3384-960-1	BUTTON ASSY (S) (EXCEPT E)	
102	3-264-027-01	ILLUMINATOR (KNOB)	
103	X-3384-959-1	PANEL (SV) ASSY, FRONT (M9900:US,CND)	
103	X-3384-975-1	PANEL (SV) ASSY, FRONT (M9905X)	
103	X-3384-976-1	PANEL (SV) ASSY, FRONT (AEP,UK)	
104	A-3283-648-A	DISPLAY BOARD, COMPLETE (M9900:US,CND)	
104	A-3283-652-A	DISPLAY BOARD, COMPLETE (M9900:AEP,UK,E/M9905X)	

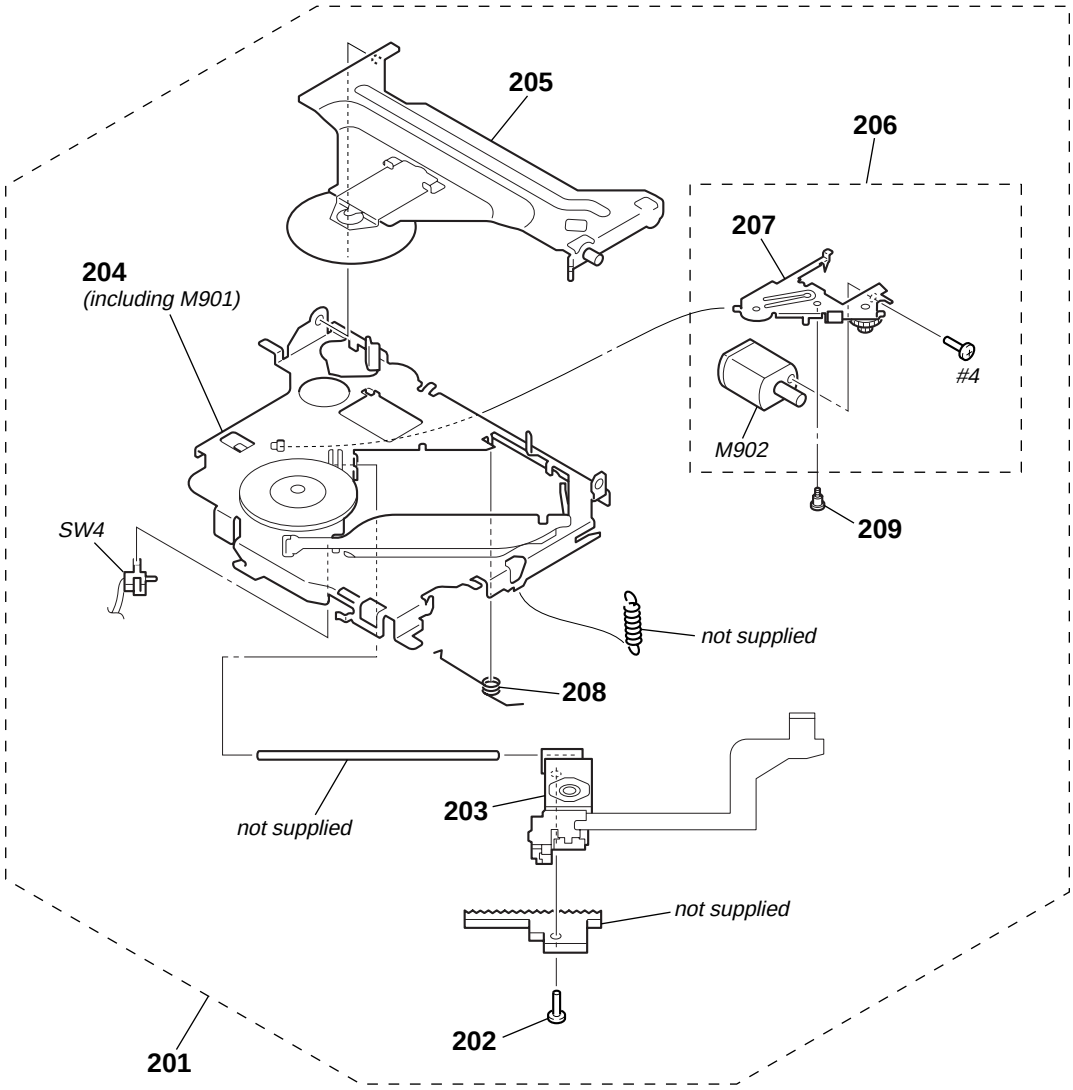
Ref. No.	Part No.	Description	Remark
105	3-564-708-91	SCREW (+P 2X14) (TYPE2)	
106	3-265-292-01	SHEET (DISPLAY), ELECTROSTATIC	
107	3-264-012-01	PANEL, FRONT BACK	
108	3-241-849-11	CUSHION (FB)	
109	X-3384-735-1	PANEL (BASE) ASSY	
110	3-264-030-01	PLATE (IR), SHIELD	
LCD201	1-477-252-11	INDICATOR UNIT	
#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
151	A-3372-455-A	CHASSIS (T) SUB ASSY	
152	3-253-729-01	SPRING (LTR), TENSION COIL	
153	3-253-746-13	SPRING (DAMPER), COMPRESSION	
154	3-253-746-03	SPRING (DAMPER), COMPRESSION	
155	3-253-695-01	SPRING (KF), TENSION COIL	
156	3-253-748-01	DAMPER (S)	
157	3-352-758-31	SCREW (M1.7), TOOTHED LOCK	
158	A-3283-359-A	SERVO BOARD, COMPLETE	
#3	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	

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

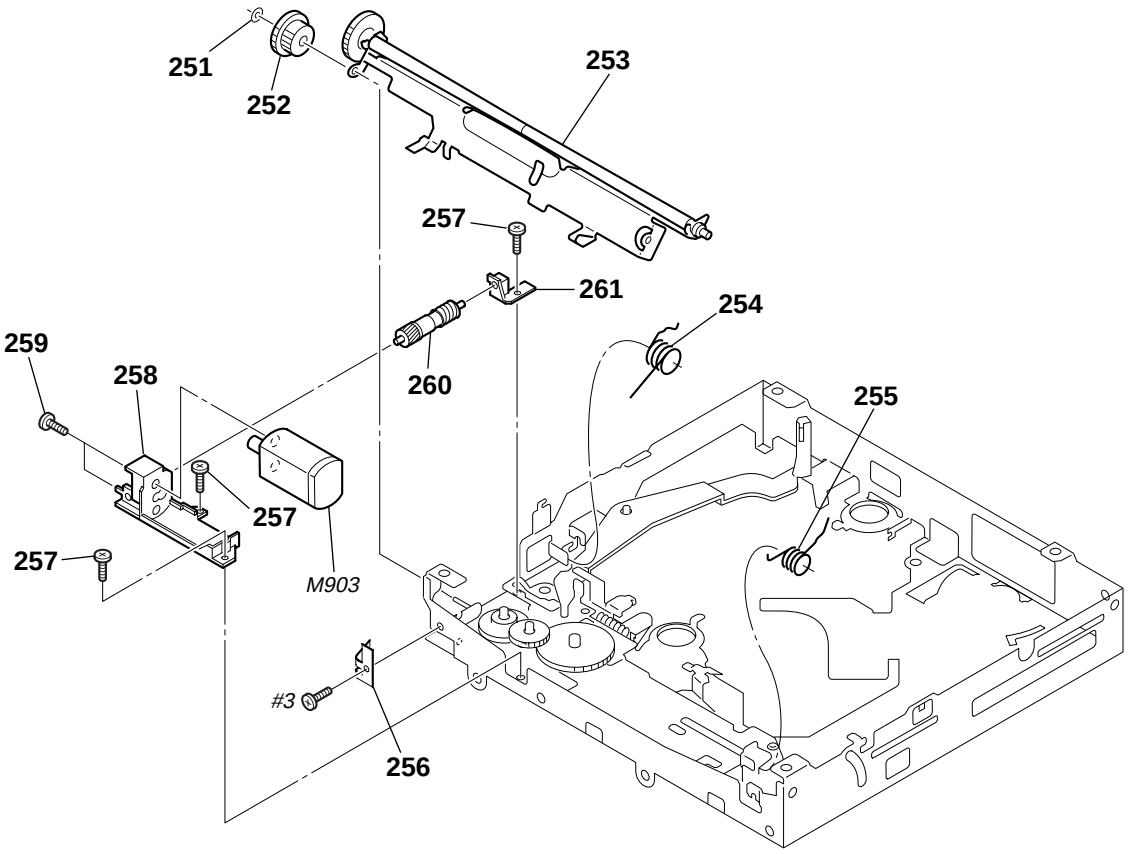


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
201	A-3337-637-A	CHASSIS (OP) COMPLETE ASSY	
202	3-316-938-91	SCREW (B1.4X5), TAPPING	
⚠203	8-820-207-02	OPTICAL PICK-UP (KSS1000E/K1RP)	
204	A-3337-640-A	CHASSIS (OP) SUB ASSY (including M901)	
205	A-3337-641-A	ARM SUB ASSY, CHUCKING	
206	A-3337-639-A	LEVER (SL) SUB ASSY	

Ref. No.	Part No.	Description	Remark
207	X-3383-454-3	LEVER (SL) ASSY	
208	3-261-959-02	SPRING (SL), TORSION	
209	3-264-165-02	SCREW	
M902	A-3337-638-A	MOTOR ASSY, SL (SLED)	
SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)	
#4	7-627-850-77	SCREW, PRECISION +P 1.4X1.8	

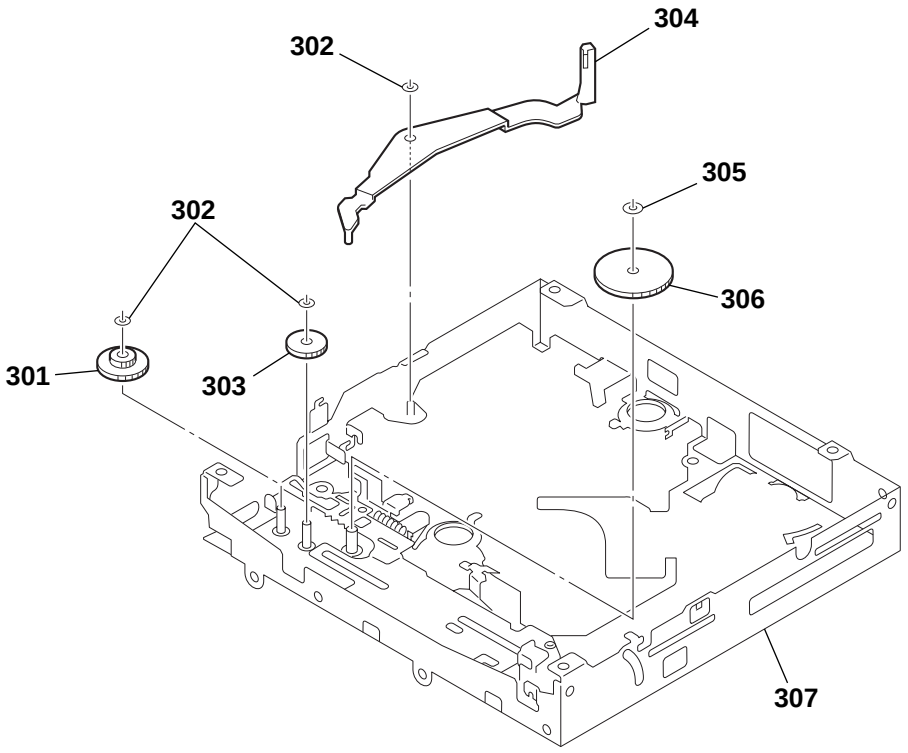
4-6. CD MECHANISM SECTION (3)
(MG-611MA-186//K)



Ref. No.	Part No.	Description	Remark
251	3-262-755-01	WASHER (1.1-2.5)	
252	3-259-024-01	WHEEL (RA), WORM	
253	A-3337-633-A	ARM ASSY, ROLLER	
254	3-259-455-02	SPRING (RAL)	
255	3-253-713-01	SPRING (RAR)	
256	3-259-469-01	SPRING (LE), LEAF	
257	2-134-636-31	SCREW (M1.7X2.5)	

Ref. No.	Part No.	Description	Remark
258	3-259-467-01	BRACKET (LEM)	
259	3-345-648-91	SCREW (M1.4), TOOTHED LOCK	
260	A-3372-456-A	WORM (LEB) ASSY	
261	3-259-468-01	BEARING (LEB)	
M903	A-3372-454-A	MOTOR ASSY, LE (LOADING)	
#3	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	

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



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

DIGITAL | DISPLAY

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.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH
- 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 piéce 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		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		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
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
D204	8-719-064-07	LED SML-310LT-T86 (RING ILLUMINATION L)	(M9900:US,CND)
D204	8-719-080-04	LED CL-190UB-X-T (RING ILLUMINATION L)	(M9900:AEP,UK,E/M9905X)
D205	8-719-064-07	LED SML-310LT-T86 (●)	(M9900:US,CND)
D205	8-719-080-04	LED CL-190UB-X-T (●)	(M9900:AEP,UK,E/M9905X)
D206	8-719-064-07	LED SML-310LT-T86 (RING ILLUMINATION L)	(M9900:US,CND)
D206	8-719-080-04	LED CL-190UB-X-T (RING ILLUMINATION L)	(M9900:AEP,UK,E/M9905X)
D207	8-719-404-50	DIODE MA111-TX	
D208	8-719-064-07	LED SML-310LT-T86 (SRC)	(M9900:US,CND)
D208	8-719-080-04	LED CL-190UB-X-T (SRC)	(M9900:AEP,UK,E/M9905X)
D210	6-500-219-01	DIODE 1SS404(TPH3)	
D211	6-500-219-01	DIODE 1SS404(TPH3)	
D212	8-719-404-50	DIODE MA111-TX	
D213	8-719-977-12	DIODE DTZ6.8B	
D214	6-500-219-01	DIODE 1SS404(TPH3)	
D215	8-719-404-50	DIODE MA111-TX	
D216	8-719-422-29	DIODE MA8047-L-TX	
D217	8-719-404-50	DIODE MA111-TX	
D218	8-719-083-14	LED RRX9000-0501 (Hi IR)	
D219	6-500-697-01	DIODE UDZS-TE17-3.3B	
D220	8-719-064-07	LED SML-310LT-T86 (M)	(M9900:US,CND)
D220	8-719-080-04	LED CL-190UB-X-T (M)	(M9900:AEP,UK,E/M9905X)
D221	8-719-064-07	LED SML-310LT-T86 (RING ILLUMINATION R)	(M9900:US,CND)
D221	8-719-080-04	LED CL-190UB-X-T (RING ILLUMINATION R)	(M9900:AEP,UK,E/M9905X)
D222	8-719-064-07	LED SML-310LT-T86 (ENTER)	(M9900:US,CND)
D222	8-719-080-04	LED CL-190UB-X-T (ENTER)	(M9900:AEP,UK,E/M9905X)
D223	8-719-064-07	LED SML-310LT-T86 (RING ILLUMINATION R)	(M9900:US,CND)
D223	8-719-080-04	LED CL-190UB-X-T (RING ILLUMINATION R)	(M9900:AEP,UK,E/M9905X)
D224	8-719-064-07	LED SML-310LT-T86 (RING ILLUMINATION R)	(M9900:US,CND)
D224	8-719-080-04	LED CL-190UB-X-T (RING ILLUMINATION R)	(M9900:AEP,UK,E/M9905X)
D225	8-719-064-07	LED SML-310LT-T86 (RING ILLUMINATION R)	(M9900:US,CND)
D225	8-719-080-04	LED CL-190UB-X-T (RING ILLUMINATION R)	(M9900:AEP,UK,E/M9905X)
D226	8-719-064-07	LED SML-310LT-T86 (⏏)	(M9900:US,CND)
D226	8-719-080-04	LED CL-190UB-X-T (⏏)	(M9900:AEP,UK,E/M9905X)
		< ROTARY ENCODER >	
ENC100	1-478-594-11	ENCODER (ROTARY) (VOL)	
ENC101	1-478-594-11	ENCODER (ROTARY) (+ ▶▶I I◀◀ –)	
		< FERRITE BEAD >	
FB903	1-500-329-21	INDUCTOR, FERRITE BEAD	
		< IC >	
IC200	8-759-337-40	IC NJM2904V(TE2)	
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)	
IC205	8-759-075-66	IC TA75S01F	
IC206	8-759-830-18	IC RRX9000-0601#1	
IC207	6-702-206-01	IC LZ9FD51	
IC208	8-759-209-97	IC TC4S81F	
IC210	6-702-208-01	IC BH8100FV	
		< COIL >	
L200	1-428-971-11	INDUCTOR 100uH	
L201	1-406-580-11	INDUCTOR 100uH	
L202	1-500-284-21	INDUCTOR, FERRITE BEAD	
		< INDICATOR UNIT >	
LCD201	1-477-252-11	INDICATOR UNIT	
		< TRANSISTOR >	
Q200	8-729-015-76	TRANSISTOR UN5211	
Q201	8-729-015-76	TRANSISTOR UN5211	
Q202	8-729-807-51	TRANSISTOR 2SD1623-S	
Q203	8-729-807-51	TRANSISTOR 2SD1623-S	
Q204	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q205	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q206	8-729-901-04	TRANSISTOR DTA114EK	
Q207	8-729-015-76	TRANSISTOR UN5211	
Q209	6-550-854-01	FET VEC2602-TL-E	
		< RESISTOR >	
R200	1-216-815-11	METAL CHIP 330 5% 1/10W	
R201	1-218-966-11	RES-CHIP 12K 5% 1/16W	
R202	1-218-965-11	RES-CHIP 10K 5% 1/16W	
R203	1-218-973-11	RES-CHIP 47K 5% 1/16W	
R204	1-216-021-00	RES-CHIP 68 5% 1/10W	(M9900:AEP,UK,E/M9905X)
R204	1-216-035-00	RES-CHIP 270 5% 1/10W	(M9900:US,CND)
R205	1-216-021-00	RES-CHIP 68 5% 1/10W	(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)
R215	1-216-035-00	RES-CHIP 270 5% 1/10W	(M9900:US,CND)
R216	1-218-977-11	RES-CHIP 100K 5% 1/16W	

DISPLAY | MAIN

Ref. No.	Part No.	Description			Remark
R217	1-216-021-00	RES-CHIP	68	5%	1/10W (M9900:AEP,UK,E/M9905X)
R217	1-216-035-00	RES-CHIP	270	5%	1/10W (M9900:US,CND)
R218	1-218-967-11	RES-CHIP	15K	5%	1/16W
R219	1-218-969-11	RES-CHIP	22K	5%	1/16W
R220	1-216-021-00	RES-CHIP	68	5%	1/10W (M9900:AEP,UK,E/M9905X)
R220	1-216-035-00	RES-CHIP	270	5%	1/10W (M9900:US,CND)
R221	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R222	1-218-956-11	RES-CHIP	1.8K	5%	1/16W
R223	1-243-640-91	RES-CHIP	0.47	1%	1/8W
R224	1-216-021-00	RES-CHIP	68	5%	1/10W (M9900:AEP,UK,E/M9905X)
R224	1-216-035-00	RES-CHIP	270	5%	1/10W (M9900:US,CND)
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)
R226	1-216-035-00	RES-CHIP	270	5%	1/10W (M9900:US,CND)
R227	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R228	1-216-811-11	METAL CHIP	150	5%	1/10W
R229	1-216-835-11	METAL CHIP	15K	5%	1/10W
R230	1-216-848-11	METAL CHIP	180K	5%	1/10W
R231	1-216-833-11	METAL CHIP	10K	5%	1/10W
R232	1-216-833-11	METAL CHIP	10K	5%	1/10W
R233	1-216-815-11	METAL CHIP	330	5%	1/10W
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
R237	1-216-845-11	METAL CHIP	100K	5%	1/10W
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
R243	1-216-797-11	METAL CHIP	10	5%	1/10W
R244	1-218-965-11	RES-CHIP	10K	5%	1/16W
R245	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R246	1-216-797-11	METAL CHIP	10	5%	1/10W
R247	1-216-845-11	METAL CHIP	100K	5%	1/10W
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
R251	1-216-845-11	METAL CHIP	100K	5%	1/10W
R252	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R253	1-216-835-11	METAL CHIP	15K	5%	1/10W
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
R260	1-208-635-11	METAL CHIP	10	0.5%	1/16W
R268	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R272	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R273	1-218-935-11	RES-CHIP	33	5%	1/16W
R298	1-218-969-11	RES-CHIP	22K	5%	1/16W
R299	1-216-295-91	SHORT CHIP	0 (M9905X)		
R300	1-216-295-91	SHORT CHIP	0 (M9900)		

Ref. No.	Part No.	Description			Remark
		< NETWORK RESISTOR >			
RA205	1-234-369-21	RES, NETWORK 10X4 (1005)			
RA206	1-234-369-21	RES, NETWORK 10X4 (1005)			
RA207	1-234-369-21	RES, NETWORK 10X4 (1005)			
RA208	1-234-369-21	RES, NETWORK 10X4 (1005)			
RA209	1-234-369-21	RES, NETWORK 10X4 (1005)			
RA210	1-234-369-21	RES, NETWORK 10X4 (1005)			
RA220	1-242-963-21	RES, NETWORK 33X4 (1005)			
RA221	1-242-963-21	RES, NETWORK 33X4 (1005)			
RA222	1-242-963-21	RES, NETWORK 33X4 (1005)			
RA223	1-242-963-21	RES, NETWORK 33X4 (1005)			
		< CERMET RESISTOR >			
RV402	1-225-901-21	RES, ADJ, CERMET (3 TYPE) 10K			
		< SWITCH >			
S200	1-771-884-31	SWITCH, TACTILE (⏏)			
S201	1-771-884-31	SWITCH, TACTILE (OFF)			
S202	1-771-884-31	SWITCH, TACTILE (SOURCE/SRC)			
S203	1-771-884-31	SWITCH, TACTILE (CUSTOM/●)			
S204	1-771-884-31	SWITCH, TACTILE (ENTER)			
S205	1-771-884-31	SWITCH, TACTILE (MENU/M)			
S209	1-786-653-11	SWITCH, TACTILE (RESET)			
		< TRANSFORMER >			
T200	1-443-247-11	TRANSFORMER, INVERTER			
		< THERMISTOR >			
TH200	1-810-812-21	THERMISTOR, NTC (1608)			
**********					
	A-3283-645-A	MAIN BOARD, COMPLETE (US,CND)			
	A-3283-655-A	MAIN BOARD, COMPLETE (AEP,UK,E)			
		**********			
	1-694-592-31	TERMINAL			
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			
	7-685-793-09	SCREW +PTT 2.6X8 (S)			
	7-685-795-09	SCREW +PTT 2.6X12 (S)			
		< BUZZER >			
BZ801	1-544-886-11	BUZZER			
		< CAPACITOR >			
C101	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C102	1-126-934-11	ELECT	220uF	20%	16V
C103	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C104	1-162-922-11	CERAMIC CHIP	39PF	5%	50V
C105	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C106	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C107	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C108	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C109	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C110	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C112	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C113	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C114	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C115	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remark
C116	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C117	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C118	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C119	1-128-643-11	CERAMIC CHIP	4.7uF		35V
C120	1-128-643-11	CERAMIC CHIP	4.7uF		35V
C121	1-135-346-21	ELECT CHIP	39uF	20%	16V
C122	1-135-346-21	ELECT CHIP	39uF	20%	16V
C123	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C124	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C125	1-126-947-11	ELECT	47uF	20%	35V
C126	1-126-947-11	ELECT	47uF	20%	35V
C127	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C128	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C129	1-128-643-11	CERAMIC CHIP	4.7uF		35V
C130	1-128-643-11	CERAMIC CHIP	4.7uF		35V
C131	1-126-934-11	ELECT	220uF	20%	16V
C132	1-128-643-11	CERAMIC CHIP	4.7uF		35V
C133	1-128-643-11	CERAMIC CHIP	4.7uF		35V
C201	1-126-947-11	ELECT	47uF	20%	35V (AEP,UK,E)
C202	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK,E)
C203	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (AEP,UK,E)
C204	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (AEP,UK,E)
C205	1-162-924-11	CERAMIC CHIP	56PF	5%	50V (AEP,UK,E)
C206	1-162-959-11	CERAMIC CHIP	330PF	5%	50V (AEP,UK,E)
C207	1-162-924-11	CERAMIC CHIP	56PF	5%	50V (AEP,UK,E)
C208	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V (AEP,UK,E)
C209	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C211	1-164-739-11	CERAMIC CHIP	560PF	5%	50V (AEP,UK,E)
C212	1-124-231-61	ELECT	4.7uF	20%	16V (AEP,UK,E)
C219	1-124-233-11	ELECT	10uF	20%	16V
C220	1-124-233-11	ELECT	10uF	20%	16V
C221	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C222	1-126-960-11	ELECT	1uF	20%	50V
C301	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C302	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C303	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C304	1-126-960-11	ELECT	1uF	20%	50V
C305	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C307	1-119-824-35	ELECT	10uF	20%	50V
C309	1-119-824-35	ELECT	10uF	20%	50V
C310	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C311	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C312	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C313	1-136-153-00	FILM	0.012uF	5%	50V
C314	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C315	1-119-824-35	ELECT	10uF	20%	50V
C316	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C317	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C318	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C319	1-136-153-00	FILM	0.012uF	5%	50V
C320	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C321	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C322	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C323	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C324	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C325	1-119-778-35	ELECT	100uF	20%	10V
C326	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C327	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C328	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C330	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C333	1-119-824-35	ELECT	10uF	20%	50V
C334	1-119-778-35	ELECT	100uF	20%	10V
C335	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C336	1-119-824-35	ELECT	10uF	20%	50V
C337	1-126-947-11	ELECT	47uF	20%	35V
C338	1-119-778-35	ELECT	100uF	20%	10V
C339	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C340	1-119-824-35	ELECT	10uF	20%	50V
C341	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C342	1-119-778-35	ELECT	100uF	20%	10V
C343	1-119-824-35	ELECT	10uF	20%	50V
C344	1-119-824-35	ELECT	10uF	20%	50V
C345	1-119-824-35	ELECT	10uF	20%	50V
C346	1-119-824-35	ELECT	10uF	20%	50V
C347	1-119-824-35	ELECT	10uF	20%	50V
C348	1-126-964-11	ELECT	10uF	20%	50V
C350	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C351	1-126-947-11	ELECT	47uF	20%	35V
C352	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C353	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C354	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C355	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C362	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C363	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C364	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C365	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C367	1-128-551-11	ELECT	22uF	20%	63V
C371	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C372	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C373	1-126-961-11	ELECT	2.2uF	20%	50V
C374	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C375	1-107-906-11	ELECT	10uF	20%	50V
C376	1-107-906-11	ELECT	10uF	20%	50V
C401	1-126-947-11	ELECT	47uF	20%	35V
C402	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C403	1-126-947-11	ELECT	47uF	20%	35V
C404	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C405	1-126-947-11	ELECT	47uF	20%	35V
C406	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
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		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)			
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
IC502	8-759-698-19	IC XC61CN2702MR			
IC503	6-804-159-01	IC RRX9000-0801E			
IC504	8-759-695-94	IC TAR5S33(TE85R)			
IC601	6-703-884-01	IC BA8271F-E2			
IC701	8-759-337-40	IC NJM2904V(TE2)			
IC702	8-759-527-33	IC LB1930M-TLM-E			
IC703	8-759-668-14	IC PQ09DZ1U			
IC801	8-759-679-36	IC TC7WT125FU(TE12R)			
		< JACK >			
J201	1-793-598-11	JACK (ANTENNA)			
		< COIL >			
L101	1-428-979-21	INDUCTOR	22uH		
L102	1-456-750-11	INDUCTOR	22uH		
L103	1-456-750-11	INDUCTOR	22uH		
L402	1-414-398-11	INDUCTOR	10uH		
L404	1-414-398-11	INDUCTOR	10uH		
L501	1-414-185-51	INDUCTOR	22uH		
L801	1-456-617-11	COIL, CHOKE	250uH		
		< TRANSISTOR >			
Q101	6-550-783-01	FET 2SK1133-T1B-A			
Q102	8-729-054-68	TRANSISTOR FDS6986S			
Q103	8-729-054-68	TRANSISTOR FDS6986S			
Q104	6-550-783-01	FET 2SK1133-T1B-A			
Q201	8-729-920-85	TRANSISTOR 2SD1664-QR			
Q202	8-729-027-46	TRANSISTOR DTC114YKA-T146 (AEP,UK,E)			
Q301	8-729-053-84	FET SSM3KO9FU(T5LSONY1)			
Q302	6-550-752-01	TRANSISTOR DTC614TKT146			
Q303	6-550-752-01	TRANSISTOR DTC614TKT146			
Q304	6-550-752-01	TRANSISTOR DTC614TKT146			
Q305	6-550-752-01	TRANSISTOR DTC614TKT146			
Q306	8-729-027-46	TRANSISTOR DTC114YKA-T146			
Q307	6-550-752-01	TRANSISTOR DTC614TKT146			
Q308	8-729-055-91	TRANSISTOR SRA2202SF			
Q501	8-729-055-91	TRANSISTOR SRA2202SF			
Q502	8-729-027-46	TRANSISTOR DTC114YKA-T146			
Q503	8-729-055-91	TRANSISTOR SRA2202SF			
Q602	8-729-027-38	TRANSISTOR DTA144EKA-T146			
Q603	8-729-027-46	TRANSISTOR DTC114YKA-T146			
Q605	8-729-027-38	TRANSISTOR DTA144EKA-T146			
Q606	8-729-027-46	TRANSISTOR DTC114YKA-T146			
Q701	8-729-049-43	TRANSISTOR STB1132Y			
Q702	8-729-027-46	TRANSISTOR DTC114YKA-T146			
Q801	8-729-421-22	TRANSISTOR UN2211			
Q802	8-729-027-46	TRANSISTOR DTC114YKA-T146			
Q803	8-729-049-40	TRANSISTOR 2SC5343SFG			
Q804	8-729-049-40	TRANSISTOR 2SC5343SFG			
Q805	8-729-049-40	TRANSISTOR 2SC5343SFG			
		< RESISTOR >			
R101	1-218-696-11	METAL CHIP	1.5K	0.5%	1/10W
R102	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R104	1-218-696-11	METAL CHIP	1.5K	0.5%	1/10W
R105	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R106	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R107	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R108	1-216-839-11	METAL CHIP	33K	5%	1/10W
R109	1-218-716-11	METAL CHIP	10K	0.5%	1/10W
R110	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R111	1-216-833-11	METAL CHIP	10K	5%	1/10W
R112	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R113	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R114	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R115	1-216-839-11	METAL CHIP	33K	5%	1/10W
R116	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R117	1-216-864-11	SHORT CHIP	0		
R118	1-216-864-11	SHORT CHIP	0		
R119	1-216-836-11	METAL CHIP	18K	5%	1/10W
R201	1-216-864-11	SHORT CHIP	0 (AEP,UK,E)		
R202	1-216-817-11	METAL CHIP	470	5%	1/10W (AEP,UK,E)
R203	1-216-001-00	RES-CHIP	10	5%	1/10W (AEP,UK,E)
R204	1-216-001-00	RES-CHIP	10	5%	1/10W (AEP,UK,E)
R205	1-216-864-11	SHORT CHIP	0		
R206	1-216-864-11	SHORT CHIP	0		
R207	1-216-864-11	SHORT CHIP	0		
R208	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (AEP,UK,E)
R209	1-216-864-11	SHORT CHIP	0		
R210	1-216-864-11	SHORT CHIP	0		
R211	1-216-864-11	SHORT CHIP	0		
R212	1-216-817-11	METAL CHIP	470	5%	1/10W
R213	1-216-809-11	METAL CHIP	100	5%	1/10W (AEP,UK,E)
R301	1-216-809-11	METAL CHIP	100	5%	1/10W
R302	1-216-864-11	SHORT CHIP	0		
R303	1-216-833-11	METAL CHIP	10K	5%	1/10W
R304	1-216-833-11	METAL CHIP	10K	5%	1/10W
R306	1-216-864-11	SHORT CHIP	0		
R307	1-216-864-11	SHORT CHIP	0		
R308	1-216-809-11	METAL CHIP	100	5%	1/10W
R309	1-216-833-11	METAL CHIP	10K	5%	1/10W
R310	1-216-833-11	METAL CHIP	10K	5%	1/10W
R311	1-216-809-11	METAL CHIP	100	5%	1/10W
R312	1-216-809-11	METAL CHIP	100	5%	1/10W
R313	1-216-809-11	METAL CHIP	100	5%	1/10W
R314	1-216-809-11	METAL CHIP	100	5%	1/10W
R315	1-216-833-11	METAL CHIP	10K	5%	1/10W
R316	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R317	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R318	1-216-833-11	METAL CHIP	10K	5%	1/10W
R322	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R323	1-218-728-11	METAL CHIP	33K	0.5%	1/10W
R324	1-218-728-11	METAL CHIP	33K	0.5%	1/10W
R325	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R326	1-218-728-11	METAL CHIP	33K	0.5%	1/10W
R327	1-218-724-11	METAL CHIP	22K	0.5%	1/10W
R328	1-218-728-11	METAL CHIP	33K	0.5%	1/10W
R329	1-216-813-11	METAL CHIP	220	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

MAIN

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

Ref. No.	Part No.	Description			Remark
R806	1-216-821-11	METAL CHIP	1K	5%	1/10W
R807	1-216-833-11	METAL CHIP	10K	5%	1/10W
R808	1-216-841-11	METAL CHIP	47K	5%	1/10W
R809	1-216-073-91	RES-CHIP	10K	5%	1/10W
R810	1-216-833-11	METAL CHIP	10K	5%	1/10W
R811	1-216-073-91	RES-CHIP	10K	5%	1/10W
R812	1-216-073-91	RES-CHIP	10K	5%	1/10W
R813	1-216-073-91	RES-CHIP	10K	5%	1/10W
R814	1-216-841-11	METAL CHIP	47K	5%	1/10W
R815	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< THERMISTOR >			
TH501	1-810-812-21	THERMISTOR, NTC (1608)			
TH601	1-801-792-21	THERMISTOR, POSITIVE			
		< TUNER >			
TUX201	A-3220-961-A	TUNER UNIT (TUX-032//Q3)			
		< VIBRATOR >			
X201	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz) (AEP,UK,E)			
X501	1-767-993-21	VIBRATOR, CRYSTAL (3.68MHz)			
X502	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)			
X503	1-781-282-11	VIBRATOR, CERAMIC (4MHz)			
**********					
		SENSOR BOARD			
		**********			
		< SWITCH >			
SW2	1-529-566-61	SWITCH, PUSH (1 KEY) (SELF)			
SW3	1-529-566-61	SWITCH, PUSH (1 KEY) (DISC IN)			
**********					
	A-3283-359-A	SERVO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C2	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C4	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C6	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C7	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C8	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C10	1-104-609-11	ELECT CHIP	100uF	20%	4V
C11	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C13	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C14	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C16	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C18	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C19	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C21	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C22	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C23	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C24	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C25	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C26	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C27	1-126-208-21	ELECT CHIP	47uF	20%	4V

Ref. No.	Part No.	Description			Remark
C28	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C29	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C30	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C32	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C33	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C34	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C35	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C36	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C37	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C38	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C39	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C40	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C41	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C42	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C43	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C44	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C45	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C46	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C47	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C48	1-104-609-11	ELECT CHIP	100uF	20%	4V
C49	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C50	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C51	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C52	1-100-381-11	ELECT CHIP	10uF	20%	16V
C53	1-100-381-11	ELECT CHIP	10uF	20%	16V
C54	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C55	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C56	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C57	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C58	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C59	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C60	1-100-381-11	ELECT CHIP	10uF	20%	16V
C63	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C64	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C65	1-126-208-21	ELECT CHIP	47uF	20%	4V
C66	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C67	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C74	1-126-208-21	ELECT CHIP	47uF	20%	4V
C75	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C77	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C79	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C81	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C83	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C85	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C86	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C91	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C92	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C109	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C110	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C115	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
		< CONNECTOR >			
CN1	1-794-153-21	CONNECTOR, FPC (ZIF) 16P			
CN2	1-817-275-21	CONNECTOR, BOARD TO BOARD 28P			
		< JUMPER RESISTOR >			
FB1	1-216-864-11	SHORT CHIP	0		
FB2	1-216-864-11	SHORT CHIP	0		

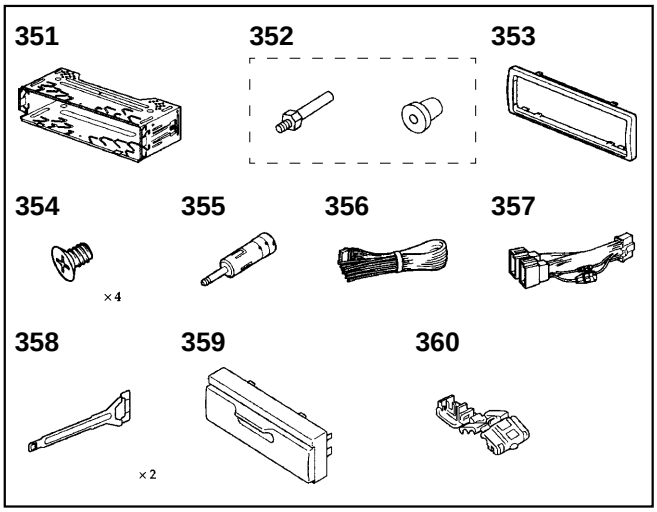
SERVO

Ref. No.	Part No.	Description			Remark
FB5	1-216-864-11	SHORT CHIP	0		
		< IC >			
IC1	6-705-366-01	IC LA6560-TE-L-E			
IC3	8-753-216-86	IC CXD3059BR			
IC4	6-804-028-02	IC MB90487PFV-G-107-BNDE1			
IC7	6-705-364-01	IC R1114N151D-TR-FA			
IC8	6-705-365-01	IC TC94A34FG-002			
		< TRANSISTOR >			
Q1	8-729-904-87	TRANSISTOR 2SB1197K-R			
Q2	8-729-928-90	TRANSISTOR DTC114EE			
Q3	8-729-904-87	TRANSISTOR 2SB1197K-R			
Q5	8-729-904-87	TRANSISTOR 2SB1197K-R			
Q6	8-729-928-90	TRANSISTOR DTC114EE			
		< RESISTOR >			
R1	1-218-941-81	RES-CHIP	100	5%	1/16W
R2	1-218-971-11	RES-CHIP	33K	5%	1/16W
R3	1-218-971-11	RES-CHIP	33K	5%	1/16W
R4	1-218-965-11	RES-CHIP	10K	5%	1/16W
R5	1-218-965-11	RES-CHIP	10K	5%	1/16W
R6	1-218-965-11	RES-CHIP	10K	5%	1/16W
R7	1-208-635-11	METAL CHIP	10	0.5%	1/16W
R8	1-218-971-11	RES-CHIP	33K	5%	1/16W
R9	1-218-971-11	RES-CHIP	33K	5%	1/16W
R10	1-218-965-11	RES-CHIP	10K	5%	1/16W
R11	1-218-965-11	RES-CHIP	10K	5%	1/16W
R12	1-208-635-11	METAL CHIP	10	0.5%	1/16W
R13	1-218-965-11	RES-CHIP	10K	5%	1/16W
R14	1-218-990-11	SHORT CHIP	0		
R15	1-218-990-11	SHORT CHIP	0		
R16	1-218-990-11	SHORT CHIP	0		
R17	1-218-965-11	RES-CHIP	10K	5%	1/16W
R18	1-218-965-11	RES-CHIP	10K	5%	1/16W
R19	1-218-969-11	RES-CHIP	22K	5%	1/16W
R20	1-218-969-11	RES-CHIP	22K	5%	1/16W
R21	1-218-990-11	SHORT CHIP	0		
R22	1-218-967-11	RES-CHIP	15K	5%	1/16W
R23	1-218-967-11	RES-CHIP	15K	5%	1/16W
R24	1-218-953-11	RES-CHIP	1K	5%	1/16W
R25	1-218-953-11	RES-CHIP	1K	5%	1/16W
R26	1-218-981-11	RES-CHIP	220K	5%	1/16W
R27	1-218-965-11	RES-CHIP	10K	5%	1/16W
R28	1-218-990-11	SHORT CHIP	0		
R29	1-218-977-11	RES-CHIP	100K	5%	1/16W
R37	1-218-947-11	RES-CHIP	330	5%	1/16W
R38	1-218-967-11	RES-CHIP	15K	5%	1/16W
R39	1-218-941-81	RES-CHIP	100	5%	1/16W
R40	1-218-990-11	SHORT CHIP	0		
R41	1-218-985-11	RES-CHIP	470K	5%	1/16W
R42	1-218-965-11	RES-CHIP	10K	5%	1/16W
R43	1-218-977-11	RES-CHIP	100K	5%	1/16W
R44	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R45	1-218-971-11	RES-CHIP	33K	5%	1/16W
R46	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R47	1-218-977-11	RES-CHIP	100K	5%	1/16W
R48	1-218-941-81	RES-CHIP	100	5%	1/16W

Ref. No.	Part No.	Description			Remark
R49	1-218-953-11	RES-CHIP	1K	5%	1/16W
R50	1-218-941-81	RES-CHIP	100	5%	1/16W
R52	1-218-941-81	RES-CHIP	100	5%	1/16W
R53	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R54	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R55	1-218-953-11	RES-CHIP	1K	5%	1/16W
R56	1-218-973-11	RES-CHIP	47K	5%	1/16W
R57	1-218-941-81	RES-CHIP	100	5%	1/16W
R59	1-218-941-81	RES-CHIP	100	5%	1/16W
R60	1-218-990-11	SHORT CHIP	0		
R61	1-218-985-11	RES-CHIP	470K	5%	1/16W
R62	1-218-965-11	RES-CHIP	10K	5%	1/16W
R64	1-218-941-81	RES-CHIP	100	5%	1/16W
R65	1-218-941-81	RES-CHIP	100	5%	1/16W
R67	1-218-941-81	RES-CHIP	100	5%	1/16W
R68	1-218-990-11	SHORT CHIP	0		
R69	1-218-973-11	RES-CHIP	47K	5%	1/16W
R70	1-218-945-11	RES-CHIP	220	5%	1/16W
R71	1-218-941-81	RES-CHIP	100	5%	1/16W
R72	1-218-990-11	SHORT CHIP	0		
R73	1-218-941-81	RES-CHIP	100	5%	1/16W
R74	1-218-941-81	RES-CHIP	100	5%	1/16W
R76	1-218-941-81	RES-CHIP	100	5%	1/16W
R77	1-218-990-11	SHORT CHIP	0		
R78	1-218-941-81	RES-CHIP	100	5%	1/16W
R79	1-218-941-81	RES-CHIP	100	5%	1/16W
R80	1-218-977-11	RES-CHIP	100K	5%	1/16W
R81	1-218-941-81	RES-CHIP	100	5%	1/16W
R85	1-218-973-11	RES-CHIP	47K	5%	1/16W
R86	1-218-973-11	RES-CHIP	47K	5%	1/16W
R87	1-218-973-11	RES-CHIP	47K	5%	1/16W
R91	1-220-200-81	RES-CHIP	30K	5%	1/16W
R92	1-218-971-11	RES-CHIP	33K	5%	1/16W
R96	1-218-990-11	SHORT CHIP	0		
R97	1-218-941-81	RES-CHIP	100	5%	1/16W
R98	1-218-941-81	RES-CHIP	100	5%	1/16W
R99	1-218-965-11	RES-CHIP	10K	5%	1/16W
R101	1-218-969-11	RES-CHIP	22K	5%	1/16W
R102	1-218-990-11	SHORT CHIP	0		
R106	1-218-969-11	RES-CHIP	22K	5%	1/16W
R107	1-218-965-11	RES-CHIP	10K	5%	1/16W
R108	1-218-941-81	RES-CHIP	100	5%	1/16W
R109	1-218-965-11	RES-CHIP	10K	5%	1/16W
R110	1-218-945-11	RES-CHIP	220	5%	1/16W
R111	1-218-990-11	SHORT CHIP	0		
R114	1-218-941-81	RES-CHIP	100	5%	1/16W
R115	1-218-941-81	RES-CHIP	100	5%	1/16W
R116	1-218-941-81	RES-CHIP	100	5%	1/16W
R117	1-218-990-11	SHORT CHIP	0		
R119	1-218-941-81	RES-CHIP	100	5%	1/16W
R122	1-218-965-11	RES-CHIP	10K	5%	1/16W
R123	1-218-990-11	SHORT CHIP	0		
R124	1-216-864-11	SHORT CHIP	0		
R126	1-218-965-11	RES-CHIP	10K	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	



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 piéce portant le numéro spécifié.

REVISION HISTORY

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

Ver.	Date	Description of Revision
1.0	2004. 02	New