CDX-MP30

SERVICE MANUAL

Ver 1.0 2002. 03

US Model
AEP Model
E Model

Photo: AEP model

• The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	New
CD Drive Mechanism Type	MG-393M-121
Optical Pick-up Name	KSS-720A

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US model)

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

CD player section

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

Tuner section

FM

Tuning range	
US model	87.5 – 107.9 MHz
AEP and E models	87.5 – 108.0 MHz
Antenna terminal	
US model	External antenna connector
AEP and E models	External aerial connector
Intermediate frequency	
US model	10.7 MHz
AEP and E models	10.7 MHz/450 kHz
Usable sensitivity	
US model	11 dBf
AEP and E models	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	
US model	65 dB (stereo), 68 dB (mono)
AEP and E models	66 dB (stereo), 72 dB (mono)
Harmonic distortion at 1 kHz	
US model	0.7% (stereo), 0.5% (mono)
AEP and E models	0.6% (stereo), 0.3% (mono)
Separation	
US model	33 dB at 1 kHz
AEP and E models	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

AM (US 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 and E models)

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	
US model	52 W × 4 (at 4 ohms)
AEP and E models	50 W × 4 (at 4 ohms)

General

Outputs	
US model	Power antenna relay control lead
AEP and E models	Power aerial relay control lead
Input	Telephone ATT control lead
Tone controls	
US model	Bass ±10 dB at 20 Hz Treble ±10 dB at 20 kHz
AEP and E models	Bass ±9 dB at 100 Hz Treble ±9 dB at 10 kHz
Power requirements	12 V DC car battery (negative earth)
Dimensions	Approx. 178 × 50 × 177 mm ($7^{1}/_{8} \times 2^{1}/_{8} \times 7$ in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 161 mm ($7^{1}/_{4} \times 2 \times 6^{3}/_{8}$ in.) (w/h/d)
Mass	Approx. 1.2 kg
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1)

Note

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

Design and specifications are subject to change without notice.

FM/AM (MW/LW) COMPACT DISC PLAYER

9-873-924-01
2002C1600-1

Sony Corporation
e Vehicle Company
Published by Sony Engineering Corporation

SONY®

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.

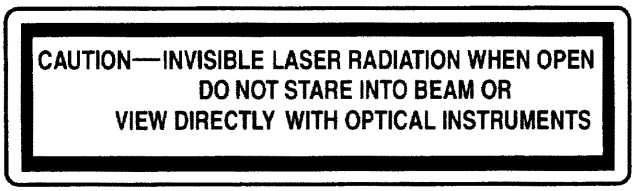
NOTES ON LASER DIODE EMISSION CHECK

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.

This label is located on the bottom of the chassis.



This label is located on the drive unit's internal chassis.

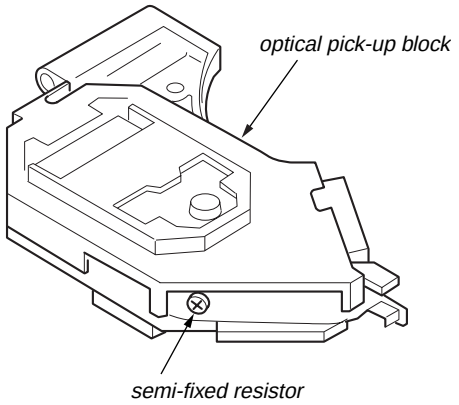
SAFETY-RELATED COMPONENT WARNING!!

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.

CAUTION

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

If the optical pick-up block is defective, please replace the whole optical pick-up block.
Never turn the semi-fixed resistor located at the side of optical pick-up block.



TEST DISCS

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

CD-R test disc TCD-R082LMT (Part No. J-2501-063-1)
CD-RW test disc TCD-W082L (Part No. J-2501-063-2)

NOTES ON CD-R/CD-RW DISCS

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

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

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

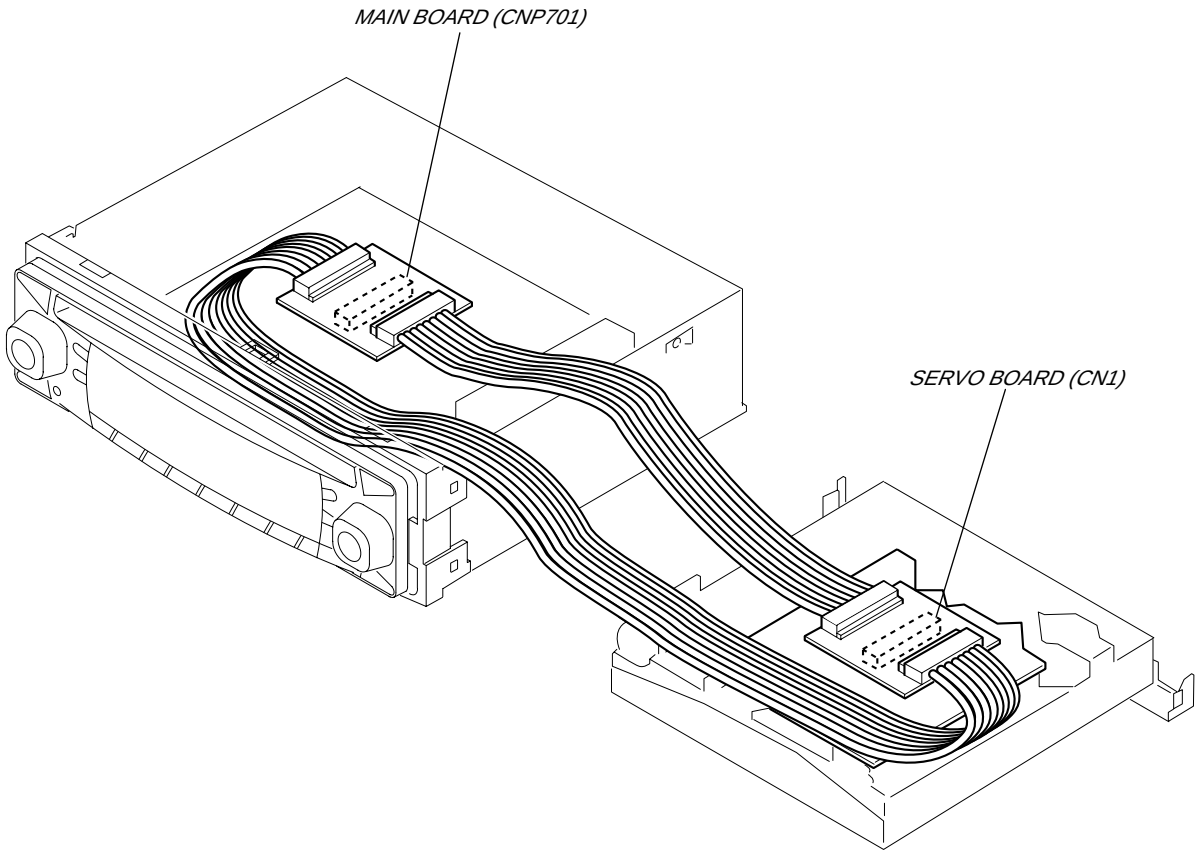
* A process necessary for a recorded CD-R/CD-RW disc to be played on the audio CD player.

TABLE OF CONTENTS

EXTENSION CABLE AND SERVICE POSITION

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

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

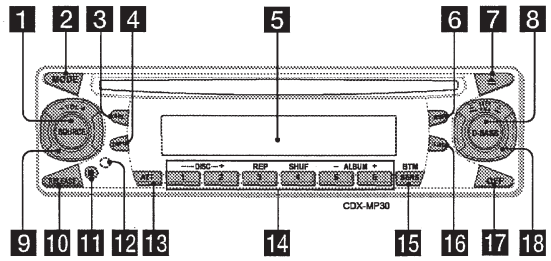


SECTION 1
GENERAL

This section is extracted from instruction manual.

(US model)

Location of controls



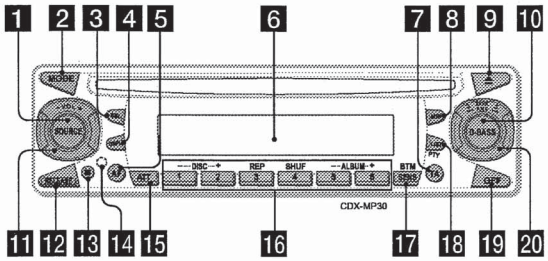
Refer to the pages listed for details.

1 SOURCE (Power on/Radio/CD/MD) button 11, 14, 15, 16
2 MODE button 11, 14, 15, 16
3 SEL (select) button 10, 12, 14, 20
4 DSPL (display mode change) button 10, 12, 14
5 Display window
6 MBP (My Best sound Position) button 20
7 ⏏ (eject) button 11
8 D-BASS button 20
9 VOL (volume) - /+ control dial 10, 14, 19
10 RELEASE (front panel release) button 9
11 Receptor for the card remote commander
12 RESET button (located on the front side of the unit, behind the front panel) 9
13 ATT (attenuate) button 19
14 Number buttons 12, 16, 19
① DISC - 11
② DISC + 11
③ REP 13
④ SHUF 13
⑤ ALBUM - 11
⑥ ALBUM + 11
15 SENS/BTM button 15, 16
16 LIST button 14, 15
17 OFF button* 9, 11
18 SEEK/AMS - /+ control dial 11, 15, 16

*** Warning when installing in a car without an ACC (accessory) position on the ignition key switch**
Be sure to press (OFF) on the unit for 2 seconds to turn off the clock display after turning off the engine.
Otherwise, the clock display does not turn off and this causes battery drain.

(AEP and E model)

Location of controls

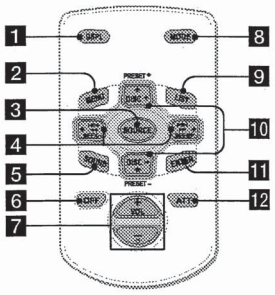


Refer to the pages listed for details.

1 SOURCE (Power on/Radio/CD/MD) button 11, 14, 15, 16, 18
2 MODE button 11, 14, 15, 16, 18
3 SEL (select) button 10, 12, 14, 20, 23, 24
4 DSPL (display mode change) button 10, 12, 14, 17
5 AF button 17, 18, 19
6 Display window
7 TA button 18, 19
8 MBP (My Best sound Position) button 24
9 ⏏ (eject) button 11
10 D-BASS button 24
11 VOL (volume) –/+ control dial 10, 14, 18, 23
12 RELEASE (front panel release) button 9
13 Receptor for the card remote commander
14 RESET button (located on the front side of the unit, behind the front panel) 9
15 ATT (attenuate) button 23
16 Number buttons 12, 16, 18, 19, 20, 23
① DISC – 11
② DISC + 11
③ REP 13
④ SHUF 13
⑤ ALBUM – 11
⑥ ALBUM + 11
17 SENS/BTM button 15, 16, 19
18 LIST/PTY (programme type) button 14, 15, 20
19 OFF button* 9, 11
20 SEEK/AMS –/+ control dial 11, 15, 16, 17, 20

*** Warning when installing in a car without an ACC (accessory) position on the ignition key switch**
Be sure to press (OFF) on the unit for 2 seconds to turn off the clock display after turning off the engine.
Otherwise, the clock display does not turn off and this causes battery drain.

Card remote commander RM-X114 (optional)



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

1 DSPL button
2 MENU button*
3 SOURCE button
4 SEEK (⇐/⇒) buttons
5 SOUND button (used as 3 SEL button for this unit)
6 OFF button
7 VOL (+/-) buttons
8 MODE button
9 LIST button
10 DISC/PRESET (↑/↓) buttons
11 ENTER button*
12 ATT button

* Not available for this model

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

Tip
Refer to "Replacing the lithium battery" for details on how to replace the batteries (page 22).

Selecting a disc and album with the card remote commander

Disc and album can be skipped using the DISC/PRESET (↑/↓) buttons of the card remote commander.

(With this unit)

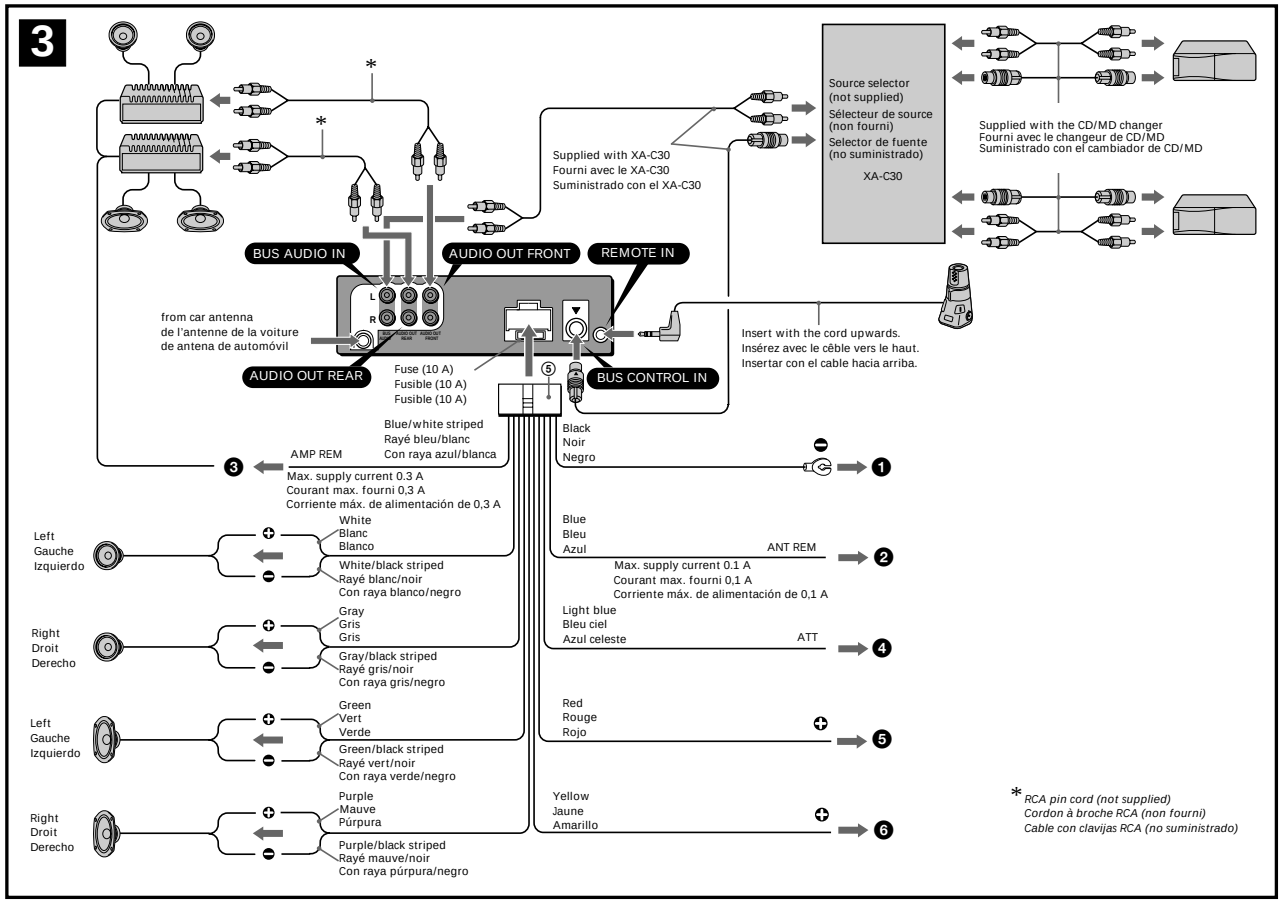
To	Press
Skip albums* – Album selection	↑ or ↓ [once for each album] To continuously skip albums, press and hold either button.

(With optional unit)

To	Press
Skip discs – Disc selection	↑ or ↓ [once for each disc] To continuously skip discs, press once and press again within 1 second (and hold) either button.
Skip albums* – Album selection	↑ or ↓ [hold for a moment] and release To continuously skip albums, press (and hold) within 1 second of first releasing the button.

** Available only when an MP3 file is played.*

Connection (US and E model)



Précautions

- Cet appareil est exclusivement conçu pour fonctionner sur une tension de 12 V CC avec masse négative.
- Veiller à ne pas coincer de fils entre une vis et la carrosserie de la voiture ou cet appareil ou encore entre des pièces mobiles comme les glissières des sièges, etc.
- Avant d'effectuer des raccordements, éteignez le moteur pour éviter les courts-circuits.
- Brancher les fils d'entrée d'alimentation jaune et rouge seulement après avoir terminé tous les autres branchements.
- Rassembler tous les fils de terre en un point de masse commun.
- Veillez à isoler tout fil ou câble non connectés avec du ruban électrique approprié.

Notes sur le cordon d'alimentation (jaune)

- Lorsque cet appareil est raccordé à d'autres éléments stéréo, la valeur nominale des circuits de la voiture raccordée doit être supérieure à la somme des fusibles de chaque élément.
- Si aucun circuit de la voiture n'est assez puissant, raccordez directement l'appareil à la batterie.

Liste des composants (1)

Les numéros de l'illustration correspondent à ceux des instructions.

Attention

Manipulez précautionneusement le support ① pour éviter de vous blesser aux doigts.

Exemple de raccordement (2)

Remarques (2-A)

- *Raccordez d'abord le fil de masse avant de connecter l'amplificateur.*
- *Si vous raccordez un amplificateur de puissance et que vous n'utilisez pas l'amplificateur intégré, le bip sonore est désactivé.*

Conseil (2-B-❺)

Dans le cas du raccordement de deux changeurs de CD/MD ou plus, le sélecteur de source XA-C30 (optionnel) est indispensable.

Schémas de connexion (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 jaune et rouge.

❷ Vers le fil de commande de l'antenne électrique ou le fil d'alimentation de l'amplificateur d'antenne
Remarque
- *Il n'est pas nécessaire de raccorder ce fil s'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, 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 Pour effectuer le raccordement à AMP REMOTE IN de l'amplificateur de puissance en option
Cette connexion s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.

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

❺ À la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires
Remarque
- *S'il n'y a pas de position accessoires, raccordez la borne d'alimentation (batterie) +12 V qui est en permanence sous tension.*
  Raccordez d'abord le fil de masse noir.
- *Si votre voiture est équipée d'une antenne FM/AM intégrée dans la vitre arrière/latérale, voir "Remarques sur les fils de commande et d'alimentation".*

❻ À la borne +12 V qui est alimentée en permanence
Raccordez d'abord le fil de masse noir.

Remarques sur les fils de commande et d'alimentation

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

Connexion 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 et une capacité adéquate pour éviter de les endommager.*
- *Ne raccordez pas les bornes du système de haut-parleur au châssis de la voiture et ne raccordez pas les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *Ne raccordez pas le câble de masse de cet appareil à la borne négative (–) 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 fils des haut-parleurs de l'appareil.*

Precauciones

- Esta unidad ha sido diseñada para alimentarse con cc 12 V, negativo a masa, solamente.
- No coloque los cables debajo de ningún tornillo, ni los aprisione con partes móviles (p.ej. los railes del asiento).
- Antes de realizar las conexiones, desactive el encendido del automóvil para evitar cortocircuitos.
- Conecte los cables de entrada de alimentación amarillo y rojo solamente después de haber conectado los demás.
- Conecte todos los conductores de puesta a masa a un punto común.
- Por razones de seguridad, asegúrese de aislar con cinta eléctrica los cables sueltos que no estén conectados.

Notas sobre el cable de suministro de alimentación (amarillo)

- Cuando conecte esta unidad en combinación con otros componentes estéreo, la capacidad nominal del circuito conectado del automóvil debe ser superior a la suma del fusible de cada componente.
- Si no hay circuitos del automóvil con capacidad nominal suficientemente alta, conecte la unidad directamente a la batería.

Lista de componentes (1)

Los números de la lista corresponden a los de las instrucciones.

Precaución

Tenga mucho cuidado al manipular el soporte ① para evitar posibles lesiones en los dedos.

Ejemplo de conexiones (2)

Notas (2-A)

- *Asegúrese de conectar primero el cable de puesta a masa antes de realizar la conexión al amplificador.*
- *Si conecta un amplificador de potencia opcional y no utiliza el incorporado, los pitidos se desactivarán.*

Consejo (2-B-❺)

Si desea conectar dos o más cambiadores de CD/MD, necesitará el selector de fuente XA-C30 (opcional).

Diagramas de conexión (3)

❶ A una superficie metálica del automóvil
Conecte primero el cable de masa negro, y después los cables 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/lateral, consulte "Notas sobre los cables de control y de fuente de alimentación."*

❸ Para conectar a AMP REMOTE IN del amplificador de potencia opcional
Esta conexión es sólo para amplificadores.
La conexión de cualquier otra sistema puede dañar la unidad.

❹ Al cable de interfaz de un teléfono para automóvil

❺ Al terminal de alimentación de +12 V que recibe energía en la posición de accesorios del interruptor de la llave de encendido
Notas
- *Si no hay posición de accesorios, conéctelo al terminal de alimentación (batería) de +12 V que recibe energía sin interrupción.*
  Asegúrese de conectar primero el cable de masa negro.
- *Si el automóvil incorpora una antena de FM/AM en el cristal trasero/lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

❻ Al terminal de alimentación de +12 V que recibe energía sin interrupción
Asegúrese de conectar primero el cable de masa negro.

Notas sobre los cables de control y de fuente de alimentación

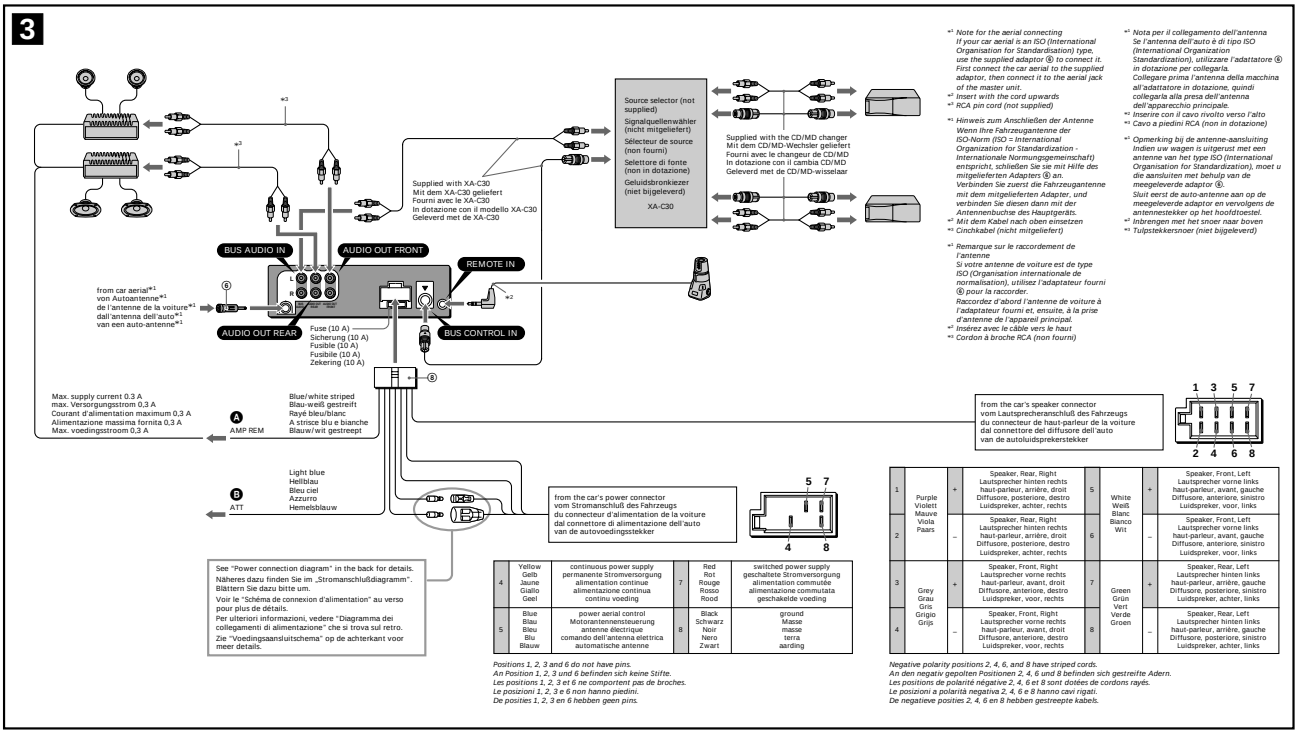
- *El conductor de control de la antena motorizada (azul) suministrará + cc 12 V cuando conecte la alimentación del sintonizador.*
- *Si el automóvil dispone de una antena de FM/AM incorporada en el cristal trasero/lateral, conecte el cable de control de antena motorizada (azul) o el cable de entrada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

Conexión para protección de la memoria
Si conecta el conductor de entrada amarillo, el circuito de la memoria recibirá siempre alimentación, incluso aunque ponga la llave de encendido en la posición OFF.

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, y con la potencia máxima admisible adecuada, ya que de lo contrario podría dañarlos.*
- *No conecte los terminales del sistema de altavoces al chasis del automóvil, ni los del altavoz izquierdo a los del derecho.*
- *No conecte el cable de puesta a tierra de esta unidad al terminal negativo (–) del altavoz.*
- *No intente conectar los altavoces en paralelo.*
- *No conecte altavoces activos (con amplificadores incorporados) a los terminales de altavoces de la unidad. Si lo hiciese, podría dañar tales altavoces. Por lo tanto, cerciórese de conectar altavoces pasivos a estos terminales.*
- *Para evitar fallos de funcionamiento, no utilice los cables de altavoz incorporados instalados en el automóvil si su unidad comparte un cable negativo común (–) para los altavoces derecho e izquierdo.*
- *No conecte los cables de altavoz de la unidad entre sí.*

Connection (AEP model)



1 Note for the aerial connecting
If your car aerial is an ISO (International Organisation for Standardisation) type, use the supplied adaptor Ⓚ to connect it. First connect the car aerial to the supplied adaptor, then connect it to the aerial jack of the master unit.
2 Insert with the cord upwards
3 RCA pin cord (not supplied)

1 Hinweis zum Anschließen der Antenne
Wenn Ihre Fahrzeugantenne der ISO-Norm (ISO = International Organization for Standardization - Internationale Normungsgemeinschaft) entspricht, schließen Sie sie mit Hilfe des mitgelieferten Adapters Ⓚ an. Verbinden Sie zuerst die Fahrzeugantenne mit dem mitgelieferten Adapter, und verbinden Sie diesen dann mit der Antennenbuchse des Hauptgeräts.
2 Mit dem Kabel nach oben einsetzen
3 Cinchkabel (nicht mitgeliefert)

1 Remarque sur le raccordement de l'antenne
Si votre antenne de voiture est de type ISO (Organisation internationale de normalisation), utilisez l'adaptateur fourni Ⓚ pour la raccorder.
Raccordez d'abord l'antenne de voiture à l'adaptateur fourni et, ensuite, à la prise d'antenne de l'appareil principal.
2 Insérez avec le câble vers le haut
3 Cordon à broche RCA (non fourni)

1 Nota per il collegamento dell'antenna
Se l'antenna dell'auto è di tipo ISO (International Organization Standardization), utilizzare l'adattatore Ⓚ in dotazione per collegarla.
Collegare prima l'antenna della macchina all'adattatore in dotazione, quindi collegarla alla presa dell'antenna dell'apparecchio principale.
2 Inserire con il cavo rivolto verso l'alto
3 Cavo a piedini RCA (non in dotazione)

1 Opmerking bij de antenne-aansluiting
Indien uw wagen is uitgerust met een antenne van het type ISO (International Organisation for Standardization), moet u die aansluiten met behulp van de meegeleverde adaptor Ⓚ.
Sluit eerst de auto-antenne aan op de meegeleverde adaptor en vervolgens de antennestekker op het hoofdtoestel.
2 Inbrengen met het snoer naar boven
3 Tulpstekkersnoer (niet bijgeleverd)

1	Purple Violett Mauve Viola Paars	+	Speaker, Rear, Right Lautsprecher hinten rechts haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts	5	White Weiß Blanc Bianco Wit	+	Speaker, Front, Left Lautsprecher vorne links haut-parleur, avant, gauche Diffusore, anteriore, sinistro Luidspreker, voor, links
2		–	Speaker, Rear, Right Lautsprecher hinten rechts haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts	6		–	Speaker, Front, Left Lautsprecher vorne links haut-parleur, avant, gauche Diffusore, anteriore, sinistro Luidspreker, voor, links
3	Grey Grau Gris Grigio Grijs	+	Speaker, Front, Right Lautsprecher vorne rechts haut-parleur, avant, droit Diffusore, anteriore, destro Luidspreker, voor, rechts	7	Green Grün Vert Verde Groen	+	Speaker, Rear, Left Lautsprecher hinten links haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links
4		–	Speaker, Front, Right Lautsprecher vorne rechts haut-parleur, avant, droit Diffusore, anteriore, destro Luidspreker, voor, rechts	8		–	Speaker, Rear, Left Lautsprecher hinten links haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links

Positions 1, 2, 3 and 6 do not have pins.
An Position 1, 2, 3 und 6 befinden sich keine Stifte.
Les positions 1, 2, 3 et 6 ne comportent pas de broches.
Le posizioni 1, 2, 3 e 6 non hanno piedini.
De posities 1, 2, 3 en 6 hebben geen pins.

Negative polarity positions 2, 4, 6, and 8 have striped cords.
An den negativ gepolten Positionen 2, 4, 6 und 8 befinden sich gestreifte Adern.
Les positions de polarité négative 2, 4, 6 et 8 sont dotées de cordons rayés.
Le posizioni a polarità negativa 2, 4, 6 e 8 hanno cavi rigati.
De negatieve posities 2, 4, 6 en 8 hebben gestreepte kabels.

4	Yellow Gelb Jaune Giallo Geel	continuous power supply permanente Stromversorgung alimentation continue alimentazione continua continu voeding	7	Red Rot Rouge Rosso Rood	switched power supply geschaltete Stromversorgung alimentation commutée alimentazione commutata geschakelde voeding
5	Blue Blau Bleu Blu Blauw	power aerial control Motorantennensteuerung antenne électrique comando dell'antenna elettrica automatische antenne	8	Black Schwarz Noir Nero Zwart	ground Masse masse terra aarding

Cautions

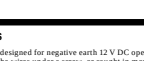
- This unit is designed for negative earth 12 V DC operation only.
- Do not get the wires under a screw, or caught in moving parts (e.g. seat railing).
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the power connecting cord Ⓑ to the unit and speakers before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

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

Parts list (1)

The numbers in the list are keyed to those in the instructions.

Caution
Handle the bracket ① carefully to avoid injuring your fingers.



Connection example (2)

Notes (2-A)
- *Be sure to connect the earth cord before connecting the amplifier.*
- *If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.*

Tip (2-B-D)
For connecting two or more CD/MD changers, the source selector XA-C30 (optional) is necessary.

Connection diagram (3)

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

Ⓔ To the interface cable of a car telephone

Warning
If you have a power aerial without a relay box, connecting this unit with the supplied power connecting cord Ⓑ may damage the aerial.

Notes on the control leads
- *The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the AF (Alternative Frequency), TA (Traffic Announcement) function.*
- *When your car has built-in FM/MW/LW aerial in the rear/side glass, connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial booster. For details, consult your dealer.*
- *A power aerial without a relay box cannot be used with this unit.*

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

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

Vorsicht

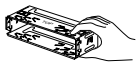
- Dieses Gerät ist ausschließlich für den Betrieb bei 12 V Gleichstrom (negative Erdung) bestimmt.
- Achten Sie darauf, daß die Kabel nicht unter einer Schraube oder zwischen beweglichen Teilen wie z. B. in einer Sitzschiene eingeklemmt werden.
- Schalten Sie, bevor Sie irgendwelche Anschlüsse vornehmen, die Zündung des Fahrzeugs aus, um Kurzschlüsse zu vermeiden.
- Verbinden Sie das Stromversorgungskabel Ⓑ mit dem Gerät und den Lautsprechern, bevor Sie es mit dem Hilfsstromanschluß verbinden.
- Schließen Sie alle Erdungskabel an einen gemeinsamen Massepunkt an.
- Aus Sicherheitsgründen müssen alle losen, nicht angeschlossenen Drähte mit Isolierband isoliert werden.

Hinweise zum Stromversorgungskabel (gelb)
- Wenn Sie dieses Gerät zusammen mit anderen Stereokomponenten anschließen, muß der Autostromkreis, an den die Geräte angeschlossen sind, eine höhere Leistung aufweisen als die Summe der Sicherungen der einzelnen Komponenten.
- Wenn kein Autostromkreis eine so hohe Leistung aufweist, schließen Sie das Gerät direkt an die Batterie an.

Teileliste (1)

Die Nummern in der Liste sind dieselben wie im Erläuterungstext.

Sicherheitshinweis
Seien Sie beim Umgang mit der Halterung ① vorsichtig, damit Sie sich nicht die Hände verletzen.



Anschlußbeispiel (2)

Hinweise (2-A)
- *Schließen Sie unbedingt zuerst das Massekabel an, bevor Sie den Verstärker anschließen.*
- *Wenn Sie einen gesondert erhältlichen Endverstärker anschließen und den integrierten Verstärker nicht benutzen, wird der Signalton deaktiviert.*

Tip (2-B-D)
Zum Anschließen von zwei oder mehr CD/MD-Wechslern wird der gesondert erhältliche Signalquellenwähler XA-C30 benötigt.

Anschlußdiagramm (3)

Ⓐ An AMP REMOTE IN des gesondert erhältlichen Endverstärkers
Dieser Anschluß ist ausschließlich für Verstärker gedacht. Schließen Sie nichts anderes daran an. Andernfalls kann das Gerät beschädigt werden.

Ⓔ An Schnittstellenkabel eines Autotelefons

Warnung
Wenn Sie eine Motorantenne ohne Relaiskästchen verwenden, kann durch Anschließen dieses Geräts mit dem mitgelieferten Stromversorgungskabel Ⓑ die Antenne beschädigt werden.

Hinweise zu den Steuerleitungen
- *Die Motorantennen-Steuerleitung (blau) liefert + 12 V Gleichstrom, wenn Sie den Tuner einschalten oder die AF- (Alternativfrequenzsuche) oder die TA-Funktion (Verkehrsdurchsagen) aktivieren.*
- *Wenn das Fahrzeug mit einer in der Heck-/Seitenfensterscheibe integrierten FM (UKW)/MW/LW-Antenne ausgestattet ist, schließen Sie die Motorantennen-Steuerleitung (blau) oder die Zubehörstromversorgungsleitung (rot) an den Stromversorgungsanschluß des vorhandenen Antennenverstärkers an. Näheres dazu erfahren Sie bei Ihrem Händler.*
- *Es kann nur eine Motorantenne mit Relaiskästchen angeschlossen werden.*

Stromversorgung des Speichers
Wenn die gelbe Stromversorgungsleitung angeschlossen ist, wird der Speicher stets (auch bei ausgeschalteter Zündung) mit Strom versorgt.

Hinweise zum Lautsprecheranschluß
- *Schalten Sie das Gerät aus, bevor Sie die Lautsprecher anschließen.*
- *Verwenden Sie Lautsprecher mit einer Impedanz zwischen 4 und 8 Ohm und ausreichender Belastbarkeit. Ansonsten können die Lautsprecher beschädigt werden.*
- *Verbinden Sie die Lautsprecherschlüsse nicht mit dem Wagenchassis, und verbinden Sie auch nicht die Anschlüsse des rechten mit denen des linken Lautsprechers.*
- *Verbinden Sie die Masseleitung dieses Geräts nicht mit dem negativen (–) Lautsprecheranschluß.*
- *Versuchen Sie nicht, Lautsprecher parallel anzuschließen.*
- *An die Lautsprecheranschlüsse dieses Geräts dürfen nur Passivlautsprecher angeschlossen werden. Schließen Sie keine Aktivlautsprecher (Lautsprecher mit eingebauten Verstärkern) an, da diese sonst beschädigt werden können.*
- *Um Fehlfunktionen zu vermeiden, verwenden Sie nicht die im Fahrzeug installierten, integrierten Lautsprecherleitungen, wenn am Ende eine gemeinsame negative (–) Leitung für den rechten und den linken Lautsprecher verwendet wird.*
- *Verbinden Sie nicht die Lautsprecherkabel des Geräts miteinander.*

Précautions

- Cet appareil est conçu pour fonctionner sur un courant continu de 12 V avec une masse négative uniquement.
- Evitez de fixer des vis sur les câbles ou de coincer ceux-ci dans des pièces mobiles (par exemple, armature de siège).
- Avant d'effectuer des raccordements, éteignez le moteur pour éviter les courts-circuits.
- Branchez le cordon d'alimention Ⓑ sur l'appareil et les haut-parleurs avant de le brancher sur le connecteur d'alimentation auxiliaire.
- Rassemblez tous les fils de terre en un point de masse commun.
- Veillez à isoler tout fil ou câble non connecté avec du chatterton approprié.

Remarques sur le cordon d'alimentation (jaune)
- Lorsque cet appareil est raccordé à d'autres éléments stéréo, la valeur nominale des circuits de la voiture raccordée doit être supérieure à la somme des fusibles de chaque élément.
- Si aucun circuit de la voiture n'est assez puissant, raccordez directement l'appareil à la batterie.

Liste des composants (1)

Les numéros de l'illustration correspondent à ceux des instructions.

Précaution
Manipulez précautionneusement le support ① pour éviter de vous blesser aux doigts.

Exemple de raccordement (2)

Remarques (2-A)
- *Raccordez d'abord le fil de masse avant de connecter l'amplificateur.*
- *Si vous raccordez un amplificateur de puissance en option et que vous n'utilisez pas l'amplificateur intégré, le bip sonore est désactivé.*

Conseil (2-B-D)
Dans le cas du raccordement de deux changeurs de CD/MD ou plus, le sélecteur de source XA-C30 (optionnel) est indispensable.

Schéma de connexion (3)

Ⓐ Au niveau du AMP REMOTE IN d'un amplificateur de puissance facultatif
Ce raccordement existe seulement pour les amplificateurs. Le raccordement à tout autre système peut endommager l'appareil.

Ⓔ Vers le cordon de liaison d'un téléphone de voiture

Avertissement
Si vous disposez d'une antenne électrique sans boîtier de relais, le branchement de cet appareil au moyen du cordon d'alimentation fourni Ⓑ risque d'endommager l'antenne.

Remarques sur les fils de commande
- *Le fil de commande (bleu) fournit du courant continu de +12 V lorsque vous allumez le sélecteur de canaux ou lorsque vous activez la fonction TA (informations circulation) ou AF (fréquence alternative).*
- *Lorsque votre voiture est équipée d'une antenne FM/MW/LW intégrée dans la vitre arrière/latérale, raccordez le fil de commande de l'antenne (bleu) ou l'entrée d'alimentation des accessoires (rouge) au bornier de l'amplificateur d'antenne existant. Pour plus de détails, consultez votre revendeur.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

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

Remarques sur la connexion des haut-parleurs
- *Avant de raccorder les haut-parleurs, mettre l'appareil hors tension.*
- *Utiliser des haut-parleurs ayant une impédance de 4 à 8 ohms et une capacité adéquate sous peine de les endommager.*
- *Ne pas raccorder les bornes du système de haut-parleurs au châssis de la voiture et ne pas connecter les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *Ne pas raccorder le câble de masse de cet appareil à la borne négative (–) du haut-parleur.*
- *Ne pas tenter de raccorder les haut-parleurs en parallèle.*
- *Ne pas connecter d'enceintes acoustiques actives (avec amplificateurs intégrés) aux bornes d'enceinte de cet appareil, pour éviter d'endommager les enceintes. Veiller à raccorder des enceintes passives.*
- *Pour éviter tout dysfonctionnement, n'utilisez pas les fils des haut-parleurs intégrés installés dans votre voiture si l'appareil dispose d'un fil négatif commun (–) pour les haut-parleurs droit et gauche.*
- *Ne raccordez pas entre eux les cordons des haut-parleurs de l'appareil.*

Attenzione

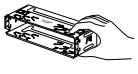
- Questo apparecchio è stato progettato per l'uso solo a 12 V CC con massa negativa.
- Evitare che i cavi rimangano bloccati da una vite o incastrati nelle parti mobili (ad esempio nelle guide scorrevoli dei sedili).
- Prima di effettuare i collegamenti, spegnere il motore dell'automobile onde evitare di causare cortocircuiti.
- Collegare il cavo di collegamento dell'alimentazione Ⓑ all'apparecchio e ai diffusori prima di collegarlo al connettore di alimentazione ausiliare.
- Raggruppare tutti i cavi di massa a un punto di massa comune.
- Per sicurezza, assicurarsi di isolare qualsiasi cavo non collegato mediante apposito nastro.

Note sul cavo di alimentazione (giallo)
- Se questo apparecchio viene collegato in combinazione con altri componenti stereo, la potenza nominale dei circuiti dell'automobile collegati deve essere superiore a quella prodotta dalla somma dei fusibili di ciascun componente.
- Se la potenza nominale dei circuiti dell'automobile non è sufficiente, collegare l'apparecchio direttamente alla batteria.

Elenco dei componenti (1)

I numeri nella lista corrispondono a quelli riportati nelle istruzioni.

Attenzione
Maneggiare la staffa ① con cautela per evitare di ferirsi le mani.



Esempi di collegamento (2)

Note (2-A)
- *Assicurarsi di collegare il cavo di terra prima di collegare l'apparecchio all'amplificatore.*
- *Se si collega un amplificatore di potenza in dotazione e non si utilizza l'amplificatore incorporato, il segnale acustico verrà disattivato.*

Suggerimento (2-B-D)
Per collegare due o più cambia CD/MD, si deve utilizzare il selettore di fonte XA-C30 (opzionale).

Schema di collegamento (3)

Ⓐ A AMP REMOTE IN di un amplificatore di potenza opzionale
Questo collegamento è riservato esclusivamente agli amplificatori. Non collegare un tipo di sistema diverso onde evitare di causare danni all'apparecchio.

Ⓔ Al cavo interfaccia di un telefono per auto

Avvertenza
Quando si collega l'apparecchio con il cavo di alimentazione in dotazione Ⓑ, si potrebbe danneggiare l'antenna elettrica se questa non ha la scatola di relè.

Note sui cavi di controllo
- *Il cavo (blu) di controllo dell'antenna elettrica fornisce alimentazione pari a +12 V CC quando si attiva il sintonizzatore o le funzioni TA (notiziario sul traffico) e AF (frequenza alternativa).*
- *Se l'automobile è dotata di antenna FM/MW/LW incorporata nel vetro posteriore/laterale, collegare il cavo (blu) di controllo dell'antenna elettrica o il cavo (rosso) di ingresso dell'alimentazione opzionale al terminale di alimentazione del preamplificatore dell'antenna esistente. Per ulteriori informazioni, consultare il proprio fornitore.*
- *Non è possibile usare un'antenna elettrica senza scatola di relè con questo apparecchio.*

Collegamento per la conservazione della memoria
Quando il cavo di ingresso alimentazione giallo è collegato, viene sempre fornita alimentazione al circuito di memoria anche quando l'interruttore di accensione è spento.

Note sul collegamento dei diffusori
- *Prima di collegare i diffusori spegnere l'apparecchio.*
- *Usare diffusori di impedenza compresa tra 4 e 8 ohm e con capacità di potenza adeguata, onde evitare che vengano danneggiati.*
- *Non collegare i terminali del sistema diffusori al telaio dell'auto e non collegare i terminali del diffusore destro a quelli del diffusore sinistro.*
- *Non collegare il cavo di terra di questo apparecchio al terminale negativo (–) del diffusore.*
- *Non collegare i diffusori in parallelo.*
- *Assicurarsi di collegare soltanto diffusori passivi, poiché il collegamento di diffusori attivi, dotati di amplificatori incorporati, ai terminali dei diffusori potrebbe danneggiare l'apparecchio.*
- *Per evitare problemi di funzionamento, non utilizzare i cavi dei diffusori incorporati installati nell'automobile se l'apparecchio condivide un cavo comune negativo (–) per i diffusori destro e sinistro.*
- *Non collegare fra loro i cavi dei diffusori dell'apparecchio.*

Let op!

- Dit apparaat is ontworpen voor gebruik op gelijkstroom van een 12 Volts auto-accu, negatief geaard.
- Zorg ervoor dat de draden niet onder een schroef of tussen bewegende onderdelen (b.v. zetelrail) terechtkomen.
- Alvorens aansluitingen te verrichten moet u het contact afzetten om kortsluiting te vermijden.
- Sluit het netsnoer Ⓑ aan op het toestel en de luidsprekers vooraleer u het op de hulpvoedingsaansluiting aansluit.
- Sluit alle aarddraden op een gemeenschappelijk aardpunt aan.
- Voorzie niet aangesloten draden om veiligheidsredenen altijd van isolatietape.

Opmerkingen bij de voedingskabel (geel)
- Wanneer u dit toestel aansluit samen met andere componenten, moet het vermogen van de aangesloten autostroomkring groter zijn dan de som van de zekeringen van elke component afzonderlijk.
- Wanneer het vermogen ontoereikend is, moet u het toestel rechtstreeks aansluiten op de batterij.

Onderdelenlijst (1)

De nummers in de afbeelding verwijzen naar die in de montage-aanwijzingen.

Opgelet
Houd de beugel ① voorzichtig vast zodat u uw vingers niet verwondt.

Voorbeeldaansluitingen (2)

Opmerkingen (2-A)
- *Sluit eerst de massakabel aan alvorens de versterker aan te sluiten.*
- *Als u een los verkrijgbare vermogensversterker aansluit en de ingebouwde versterker niet gebruikt, is de pieptoon uitgeschakeld.*

Tip (2-B-D)
Om twee of meer CD/MD-wisselaars aan te sluiten, hebt u de geluidsbronkiezer XA-C30 (optioneel) nodig.

Aansluitschema (3)

Ⓐ Naar AMP REMOTE IN van een los verkrijgbare vermogensversterker
Deze aansluiting is alleen bedoeld voor versterkers. Door een ander systeem aan te sluiten kan het toestel worden beschadigd.

Ⓔ Naar het interface-snoer van een autotelefoon

Opgelet
Indien u een elektrische antenne heeft zonder relaiskast, kan het aansluiten van deze eenheid met het bijgeleverde netsnoer Ⓑ de antenne beschadigen.

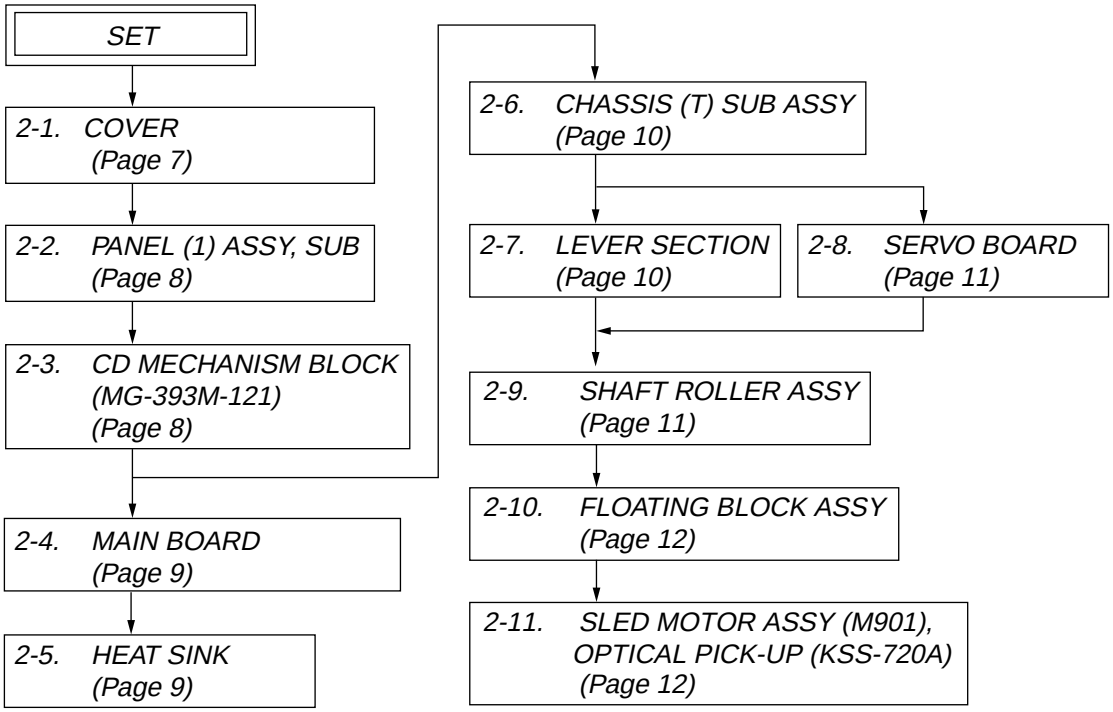
Opmerking betreffende de aansluitsnoeren
- *De antennevoedingskabel (blauw) levert +12 V gelijkstroom wanneer u de tuner aanschakelt of de AF (Alternative Frequency), TA (Traffic Announcement) functie activeert.*
- *Wanneer uw auto is uitgerust met een FM/MW/LW-antenne in de achterruit/voorruit, moet u de antennevoedingskabel (blauw) of de hulpvoedingskabel (rood) aansluiten op de voedingsingang van de bestaande antennevesterker. Raadpleeg uw dealer voor meer details.*
- *Met dit apparaat is het niet mogelijk een automatische antenne zonder relaishuis te gebruiken.*

Instandhouden van het geheugen
Zolang de gele stroomdraad is aangesloten, blijft de stroomvoorziening van het geheugen intact, ook wanneer het contact van de auto wordt uitgeschakeld.

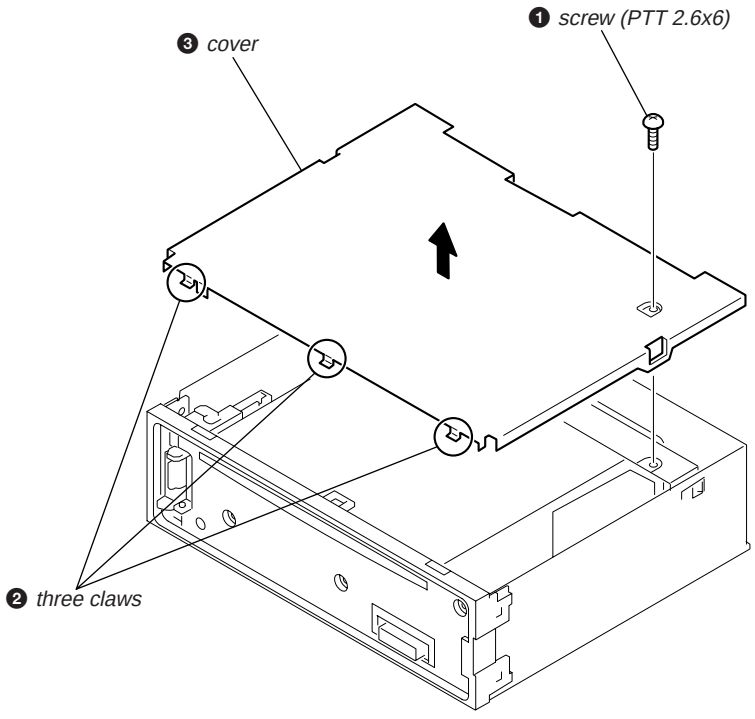
Opmerkingen betreffende het aansluiten van de luidsprekers
- *Zorg dat het apparaat is uitgeschakeld, alvorens de luidsprekers aan te sluiten.*
- *Gebruik luidsprekers met een impedantie van 4 tot 8 Ohm en let op dat die het vermogen van de versterker kunnen verwerken. Als dit wordt verzuimd, kunnen de luidsprekers ernstig beschadigd raken.*
- *Verbind in geen geval de aansluitingen van de luidsprekers met het chassis van de auto en sluit de aansluitingen van de rechter en linker luidspreker niet op elkaar aan.*
- *Verbind de massakabel van dit toestel niet met de negatieve (–) aansluiting van de luidsprekers.*
- *Probeer nooit de luidsprekers parallel aan te sluiten.*
- *Sluit geen actieve luidsprekers (met ingebouwde versterkers) aan op de luidsprekeraansluiting van dit apparaat. Dit zal leiden tot beschadiging van de actieve luidsprekers. Sluit dus altijd uitsluitend luidsprekers zonder ingebouwde versterker aan.*
- *Om defecten te vermijden mag u de bestaande luidsprekerbedrading in uw auto niet gebruiken wanneer er een gemeenschappelijke negatieve (–) draad is voor de rechter en linker luidsprekers.*
- *Verbind de luidsprekerdraden niet met elkaar.*

SECTION 2
DISASSEMBLY

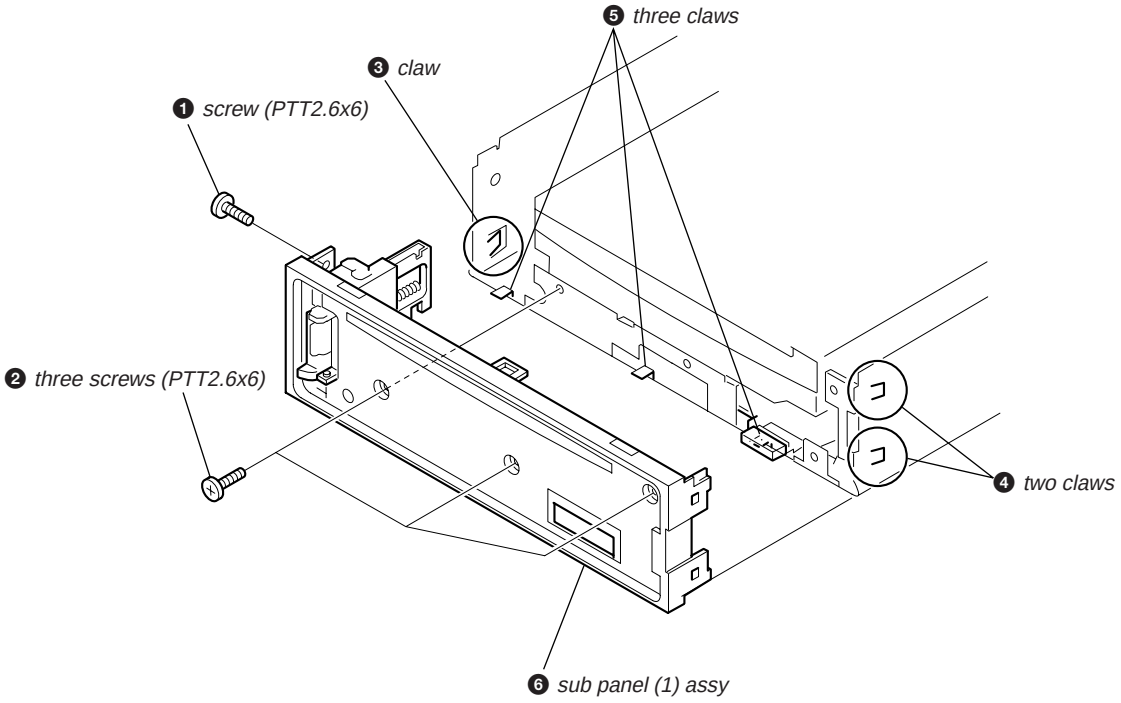
Note : This set can be disassemble according to the following sequence.



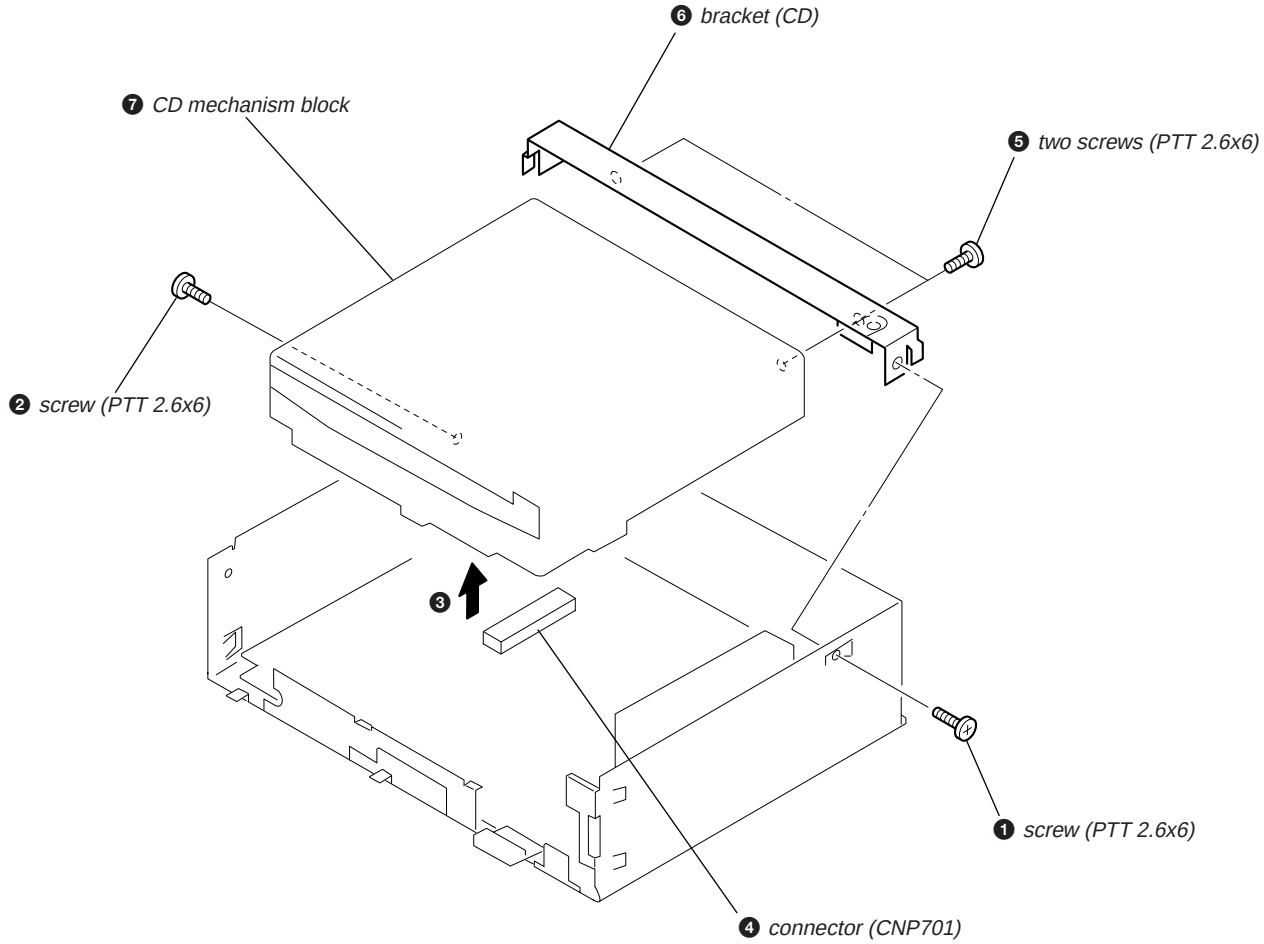
2-1. Cover



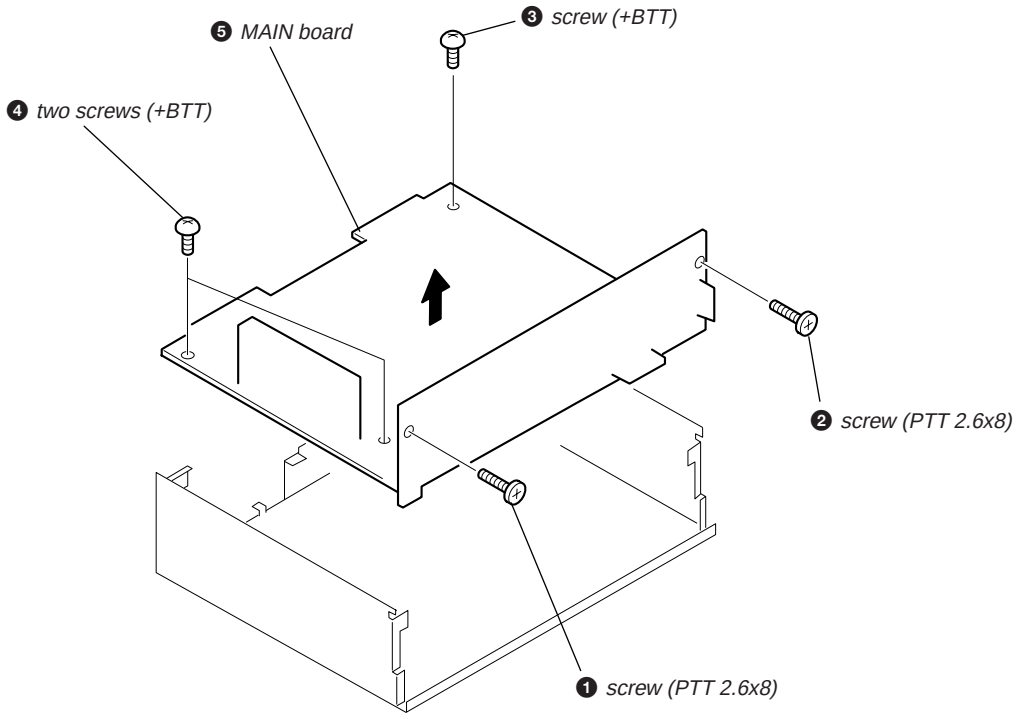
2-2. Panel (1) Assy, Sub



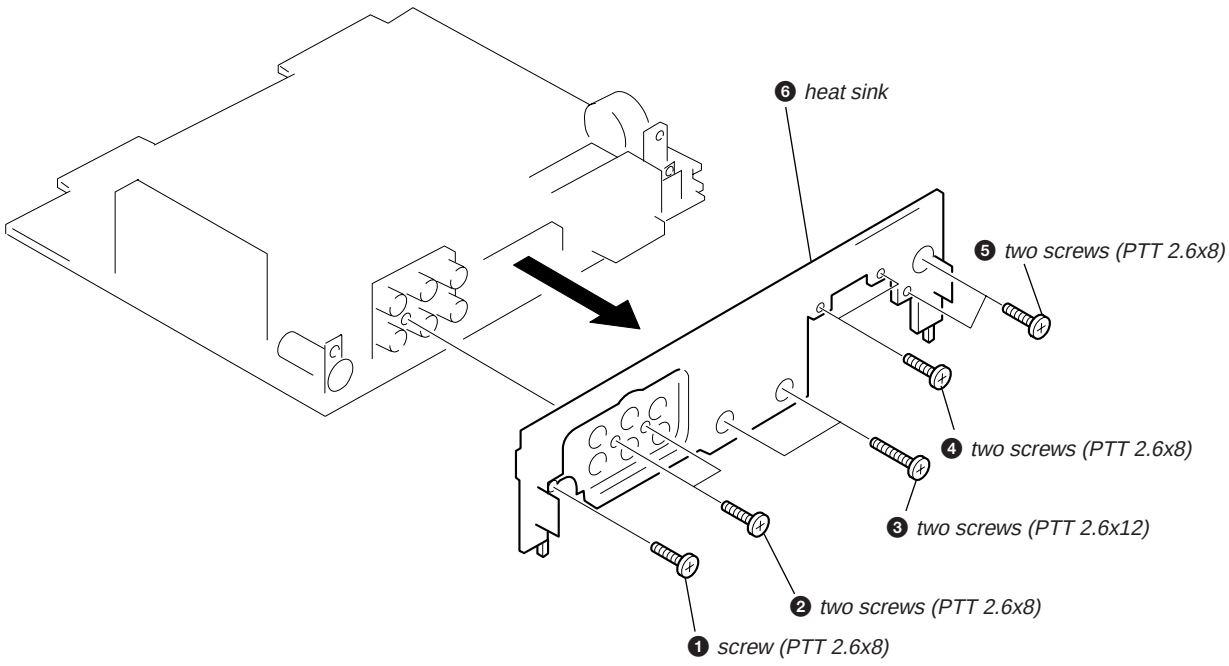
2-3. CD Mechanism Block (MG-393M-121)



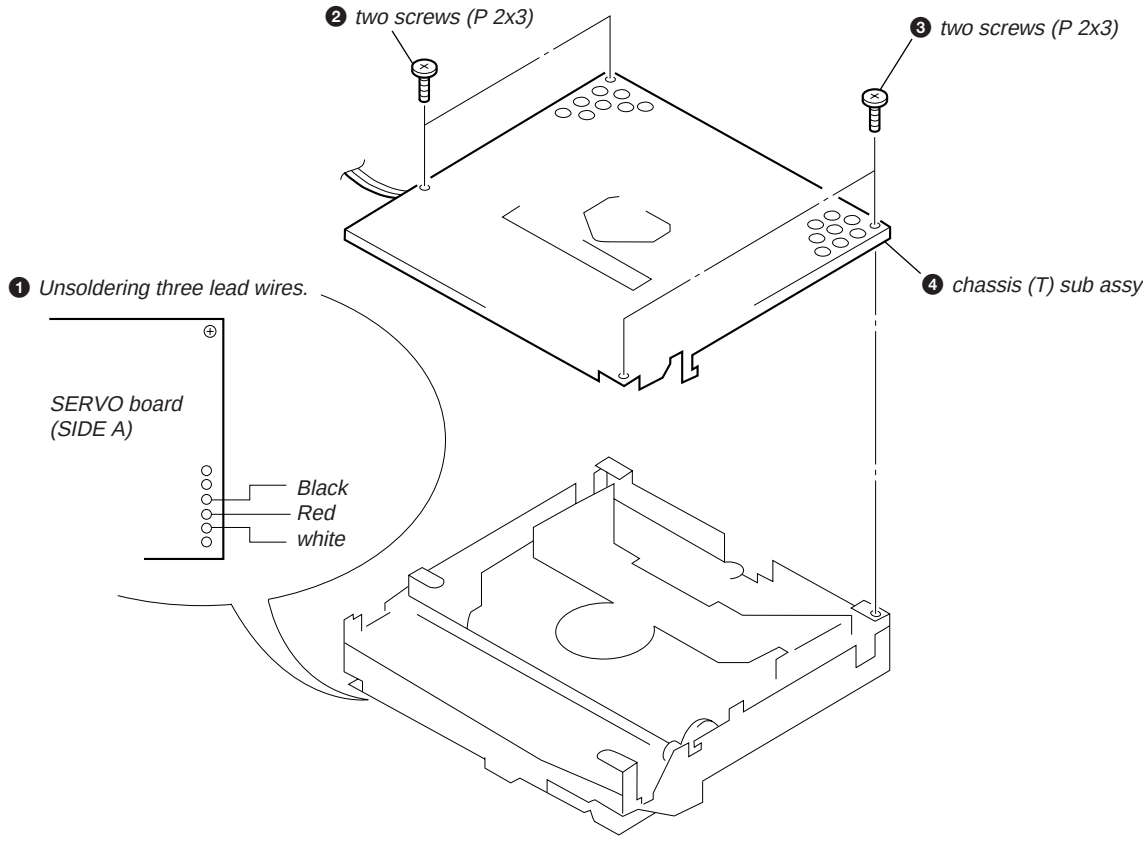
2-4. MAIN Board



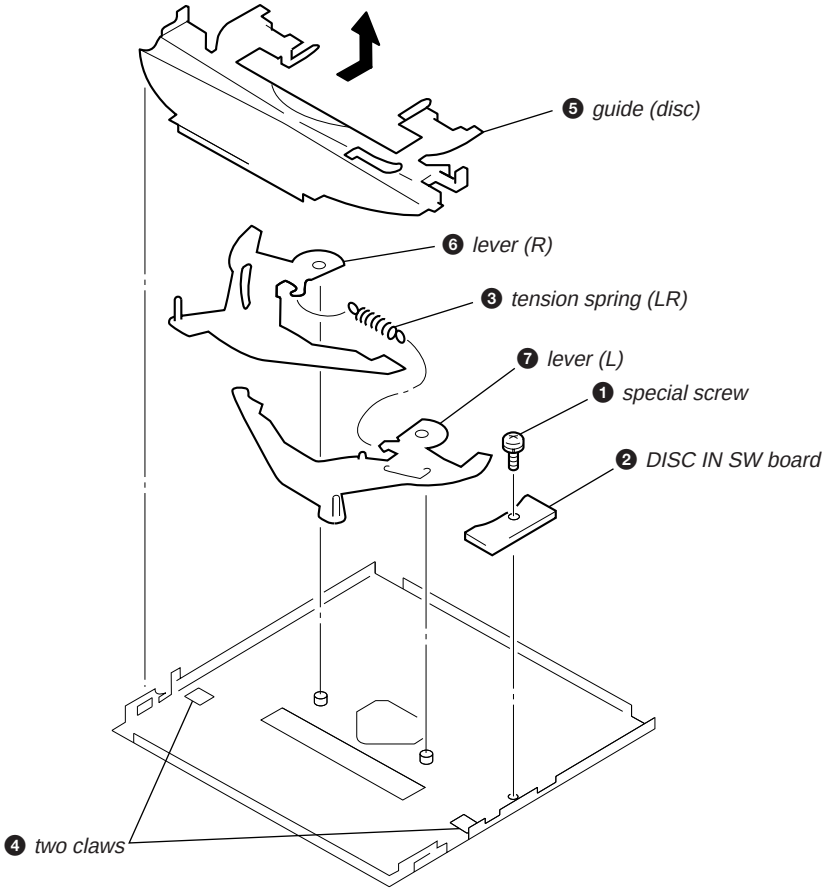
2-5. Heat Sink



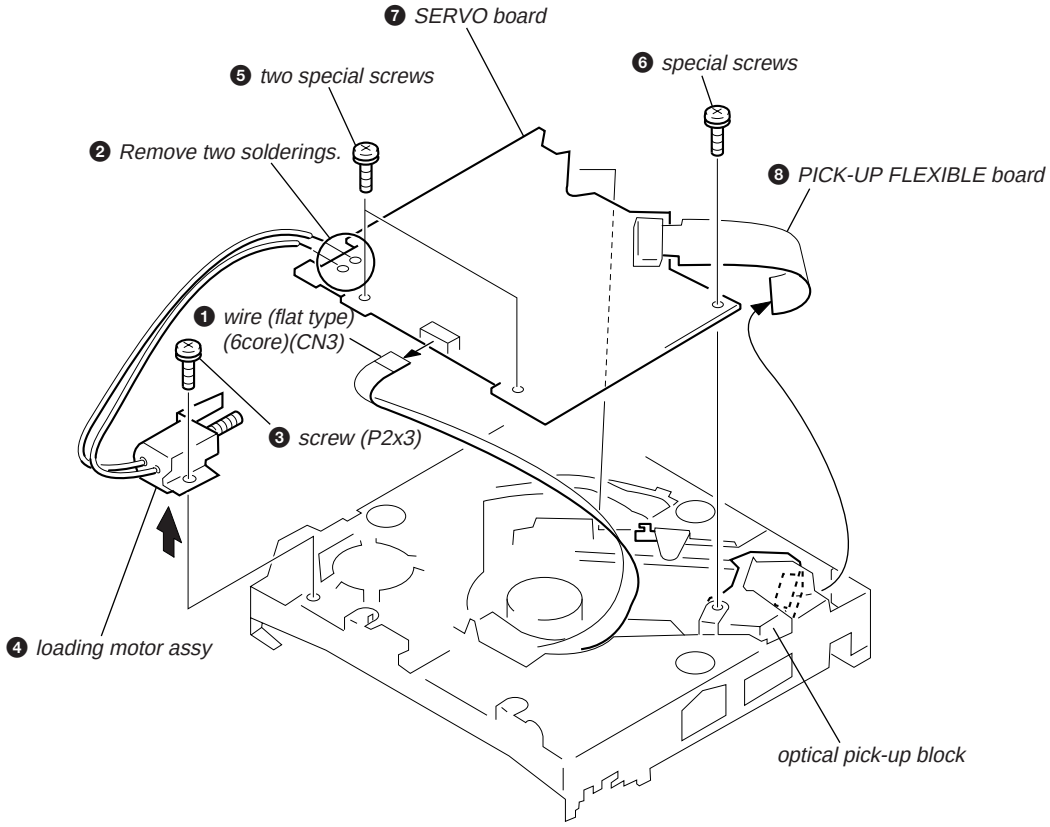
2-6. Chassis (T) Sub Assy



2-7. Lever Section



2-8. SERVO Board



2-9. Shaft Roller Assy

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

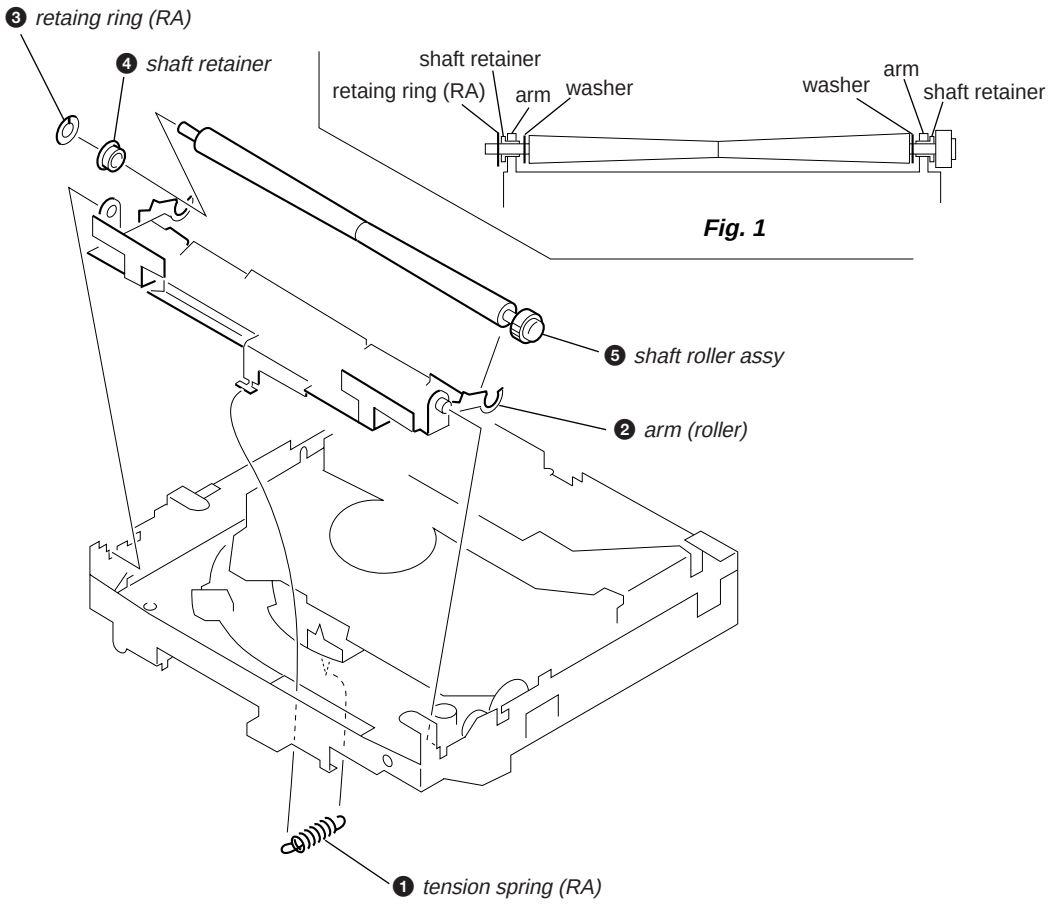
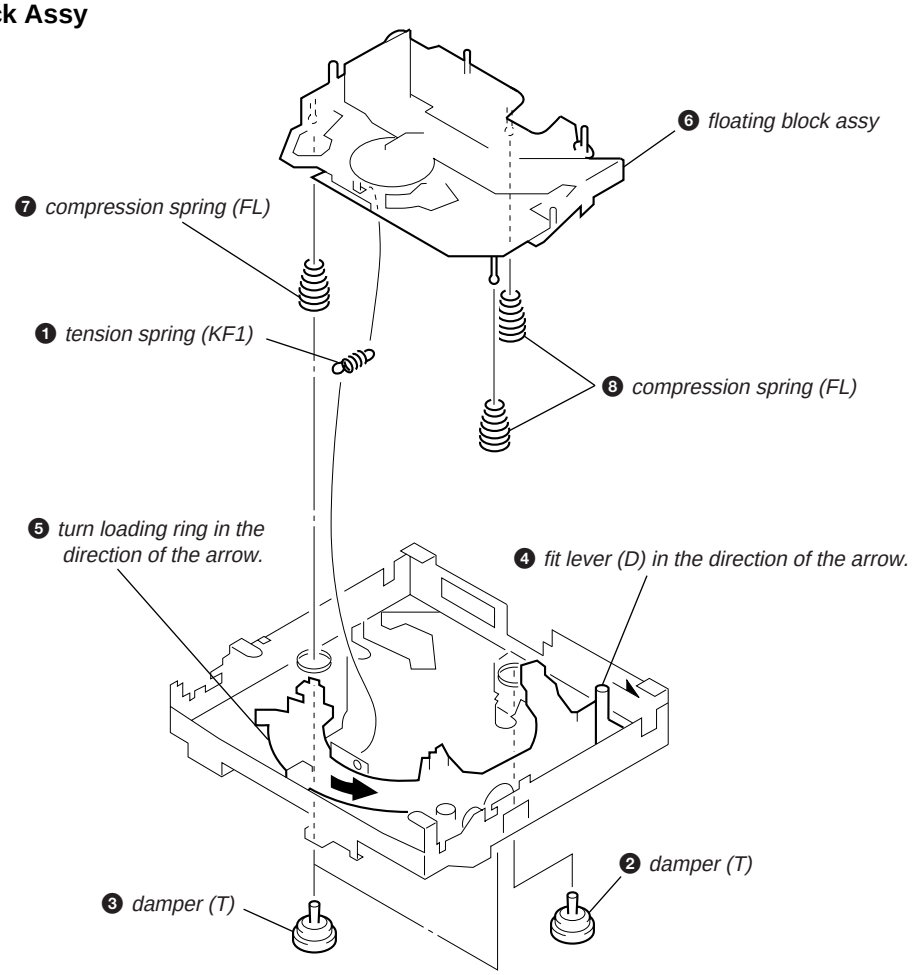
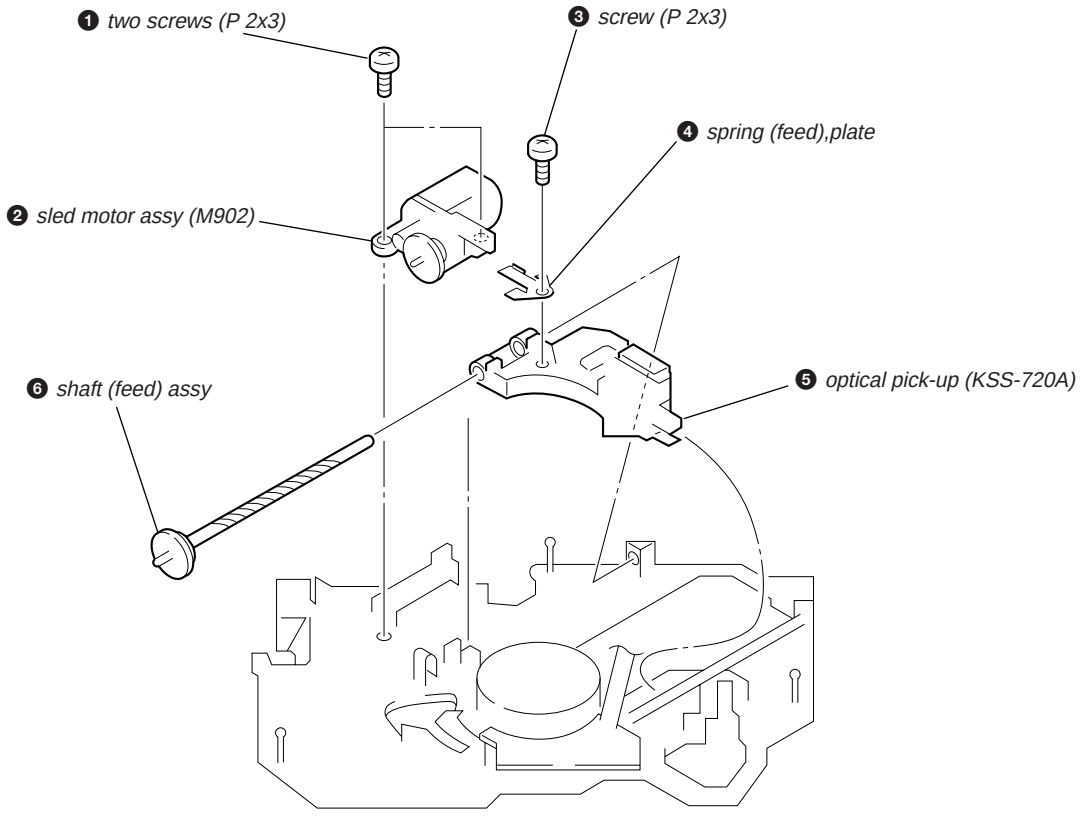


Fig. 1

2-10. Floating Block Assy

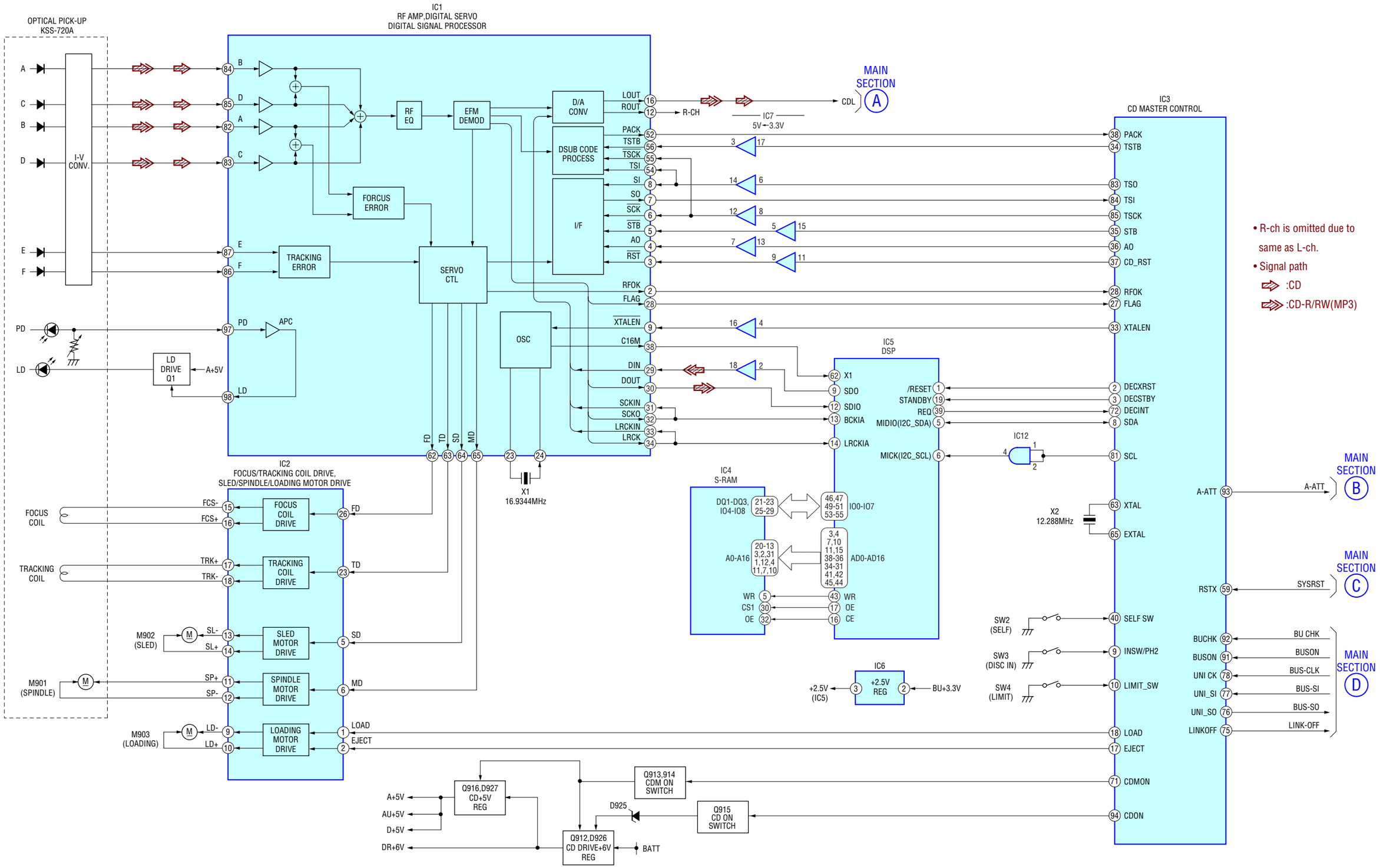


2-11. Sled Motor Assy (M901), Optical Pick-up (KSS-720A)



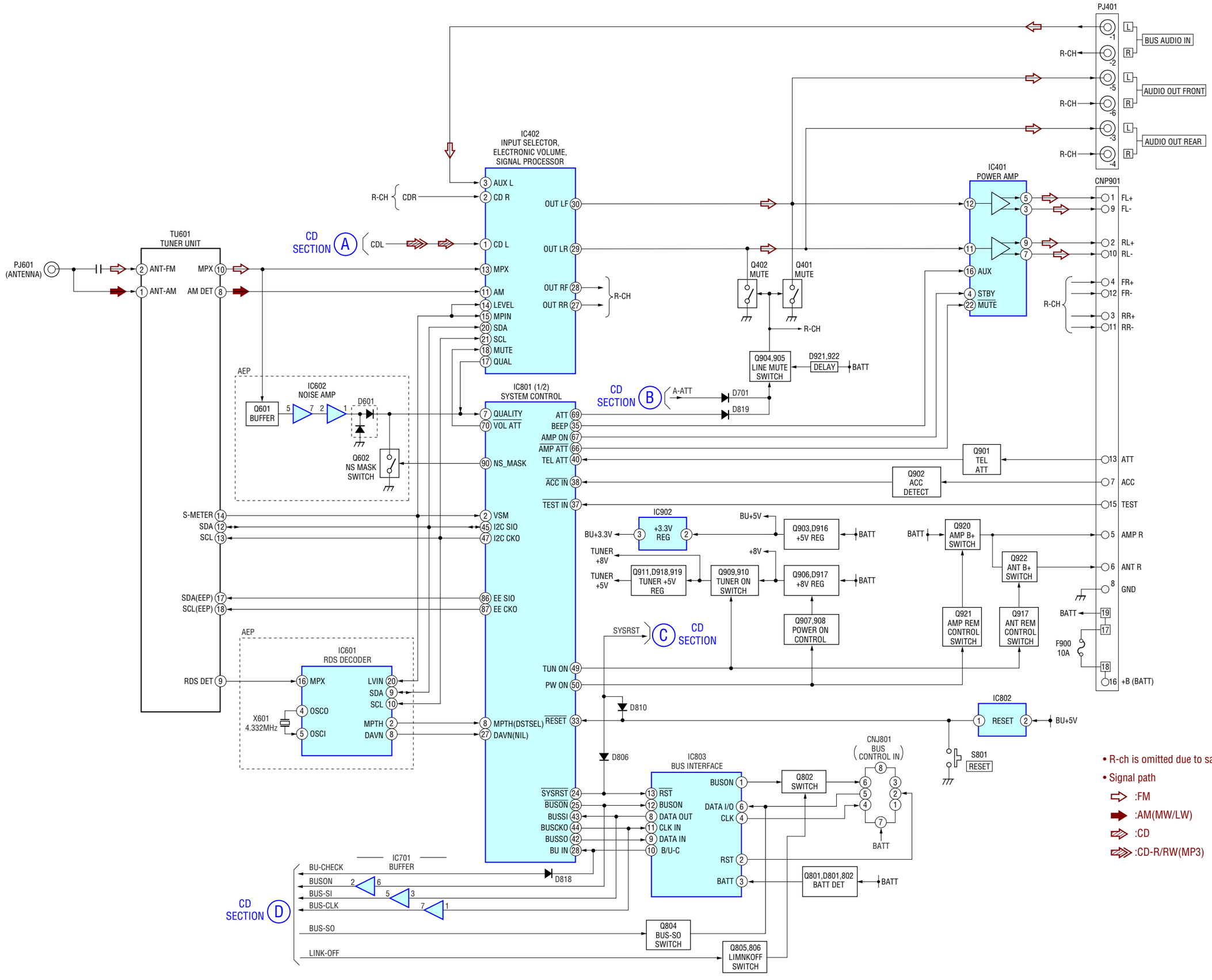
SECTION 3
DIAGRAMS

3-1. Block Diagram –CD Section–



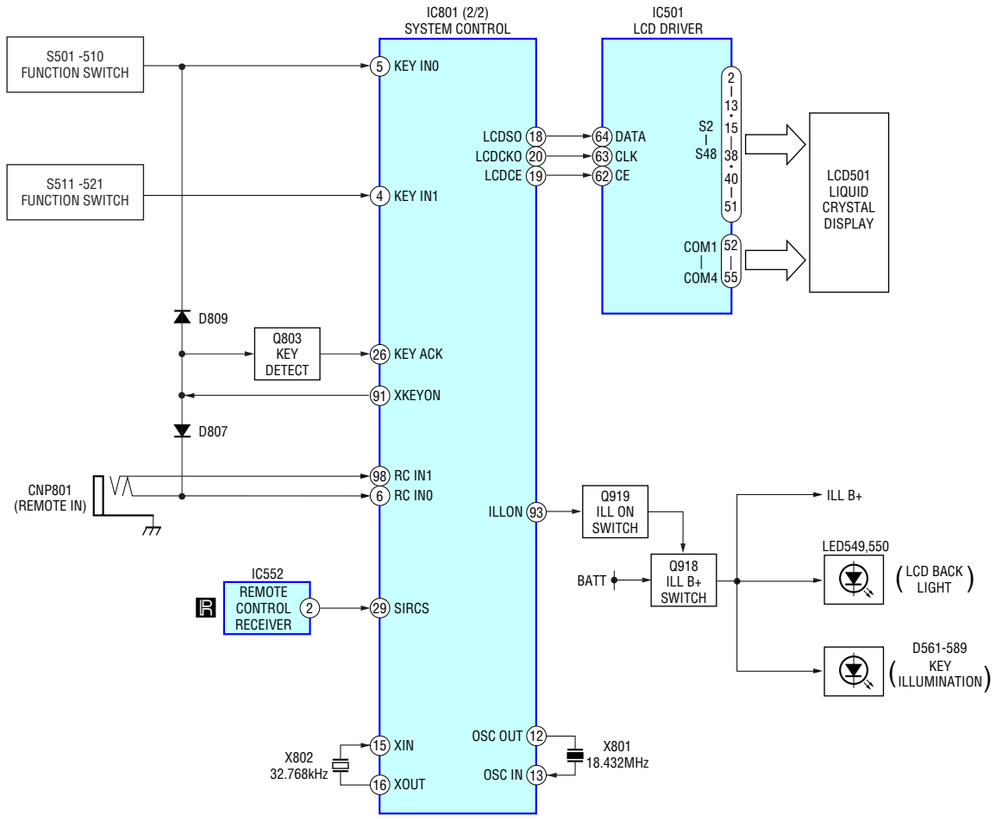
- R-ch is omitted due to same as L-ch.
- Signal path
  - ⇨ :CD
  - ⇨ :CD-R/RW(MP3)

3-2. Block Diagram –MAIN Section–

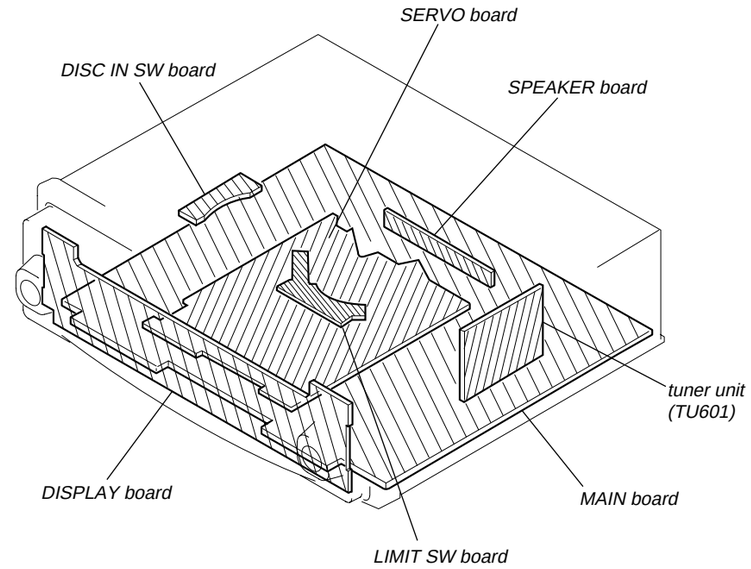


- R-ch is omitted due to same as L-ch.
- Signal path
  - :FM
  - :AM(MW/LW)
  - :CD
  - :CD-R/RW(MP3)

3-3. Block Diagram –DISPLAY Section–



• Circuit Boards Location

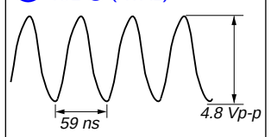


• Waveforms

— SERVO Board —

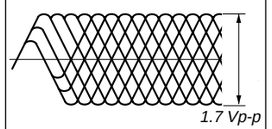
(MODE: CD PLAY)

① IC1 ㉓ (XTAL)



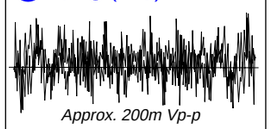
1V/DIV,20ns/DIV

② IC1 ㊼ (RFO)



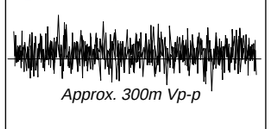
500mV/DIV,1µs/DIV

③ IC1 ㊶ (FEO)



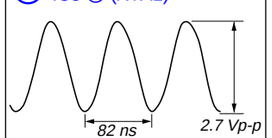
100mV/DIV,20µs/DIV

④ IC1 ㊸ (TEO)



100mV/DIV,20µs/DIV

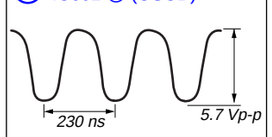
⑤ IC3 ㊸ (XTAL)



1V/DIV,40ns/DIV

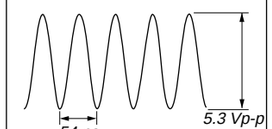
— MAIN Board —

⑥ IC601 ④ (OSCD)



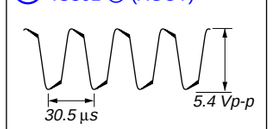
2V/DIV,100ns/DIV

⑦ IC801 ⑫ (OSCOUT)



2V/DIV,40ns/DIV

⑧ IC801 ⑯ (XOUT)



2V/DIV,20µs/DIV

15

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

for schematic diagram:

- All capacitors are in µF unless otherwise noted. pF: 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.
- % : indicates tolerance.
- △ : internal component.
- ▭ : panel designation.

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

- ▬▬ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages are taken with a VOM (Input impedance 10 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.
  - ⇨ : FM
  - ➡ : AM(MW/LW)
  - ⇨ : CD
  - ⇨ : CD-R/RW(MP3)

for printed wiring boards:

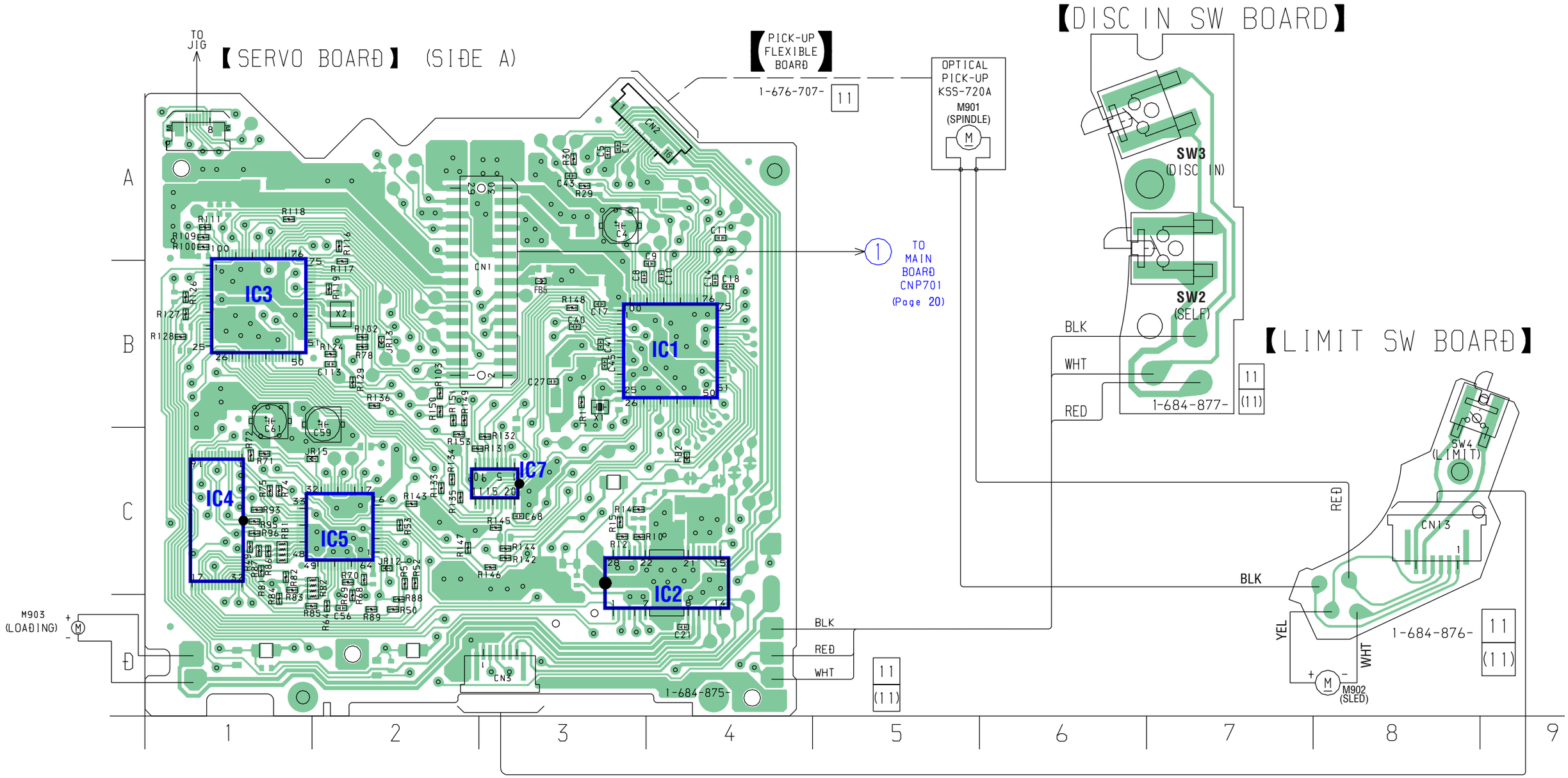
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ▬▬ : Through hole.
- : Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

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.

3-4. Printed Wiring Boards –CD Section– • Refer to page 15 for Circuit Boards Location.

- **Semiconductor Location**

Ref. No.	Location
IC6	B-4
IC12	B-3
Q1	A-1

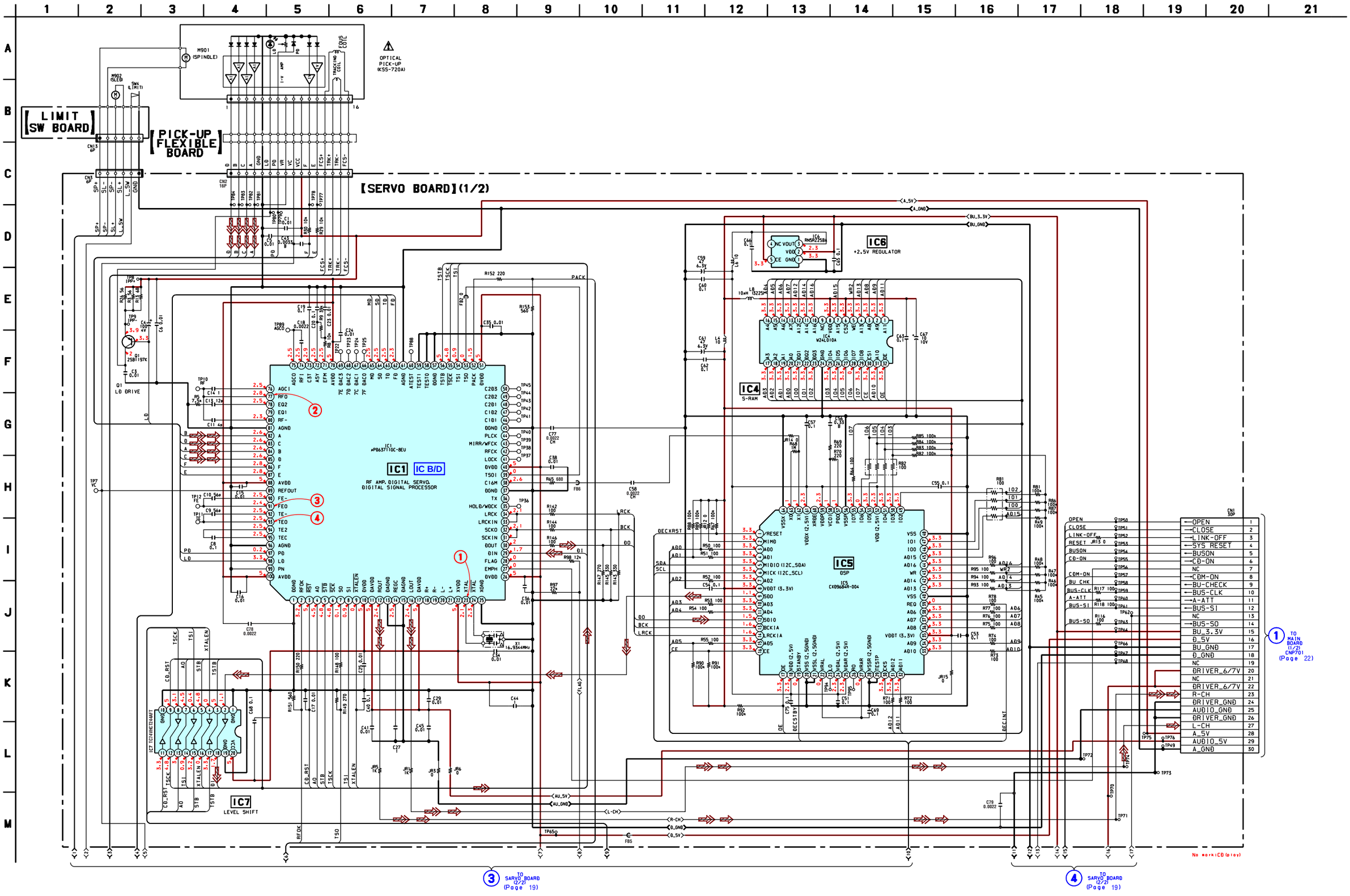


• **Semiconductor Location**

Ref. No.	Location
IC1	B-4
IC2	C-4
IC3	B-1
IC4	C-1
IC5	C-2
IC7	C-3

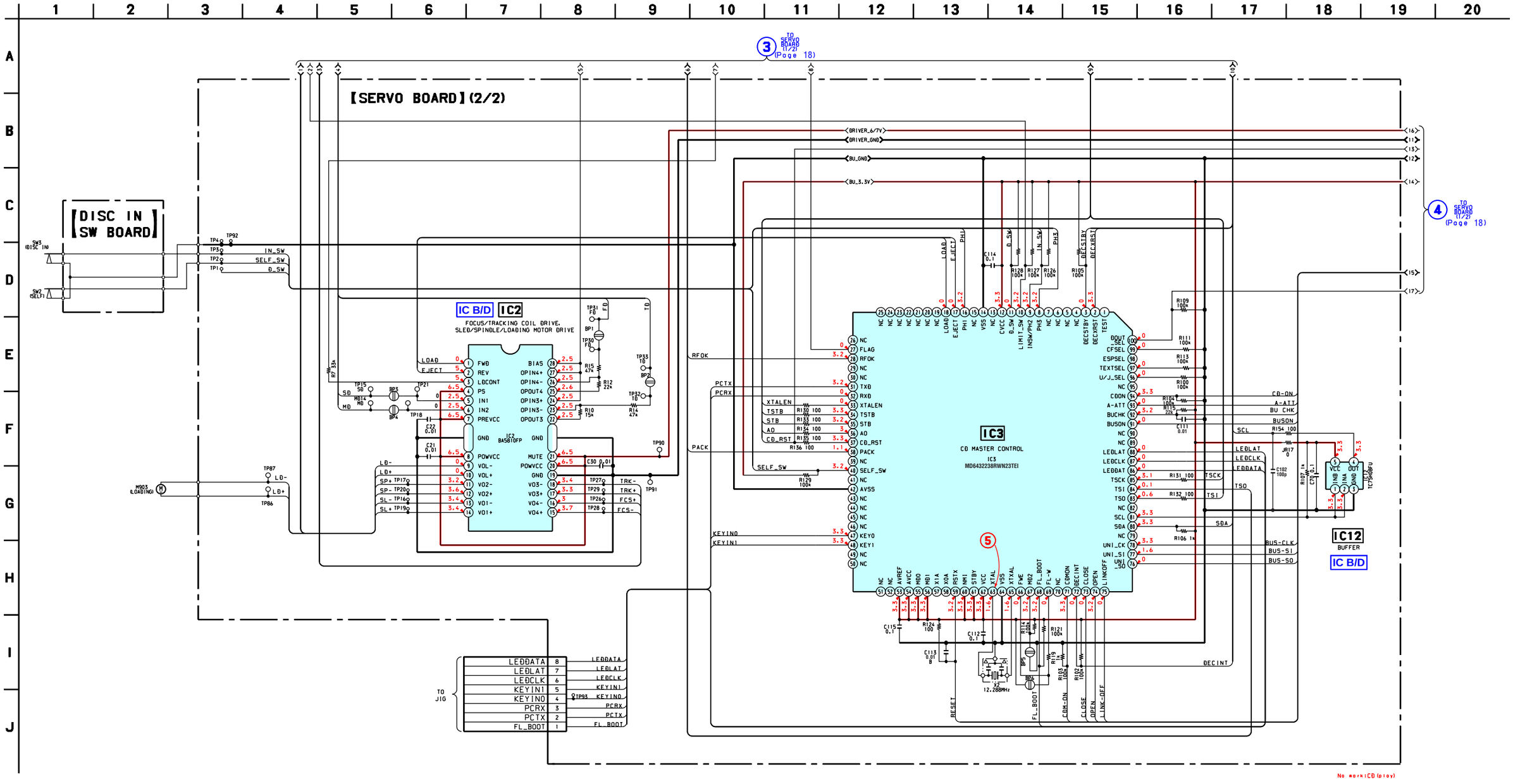
3-5. Schematic Diagram –CD Section (1/2)–

- Refer to page 15 for Waveforms.
- Refer to page 25 for IC Block Diagrams.
- Refer to page 31 for IC Pin Function Description.

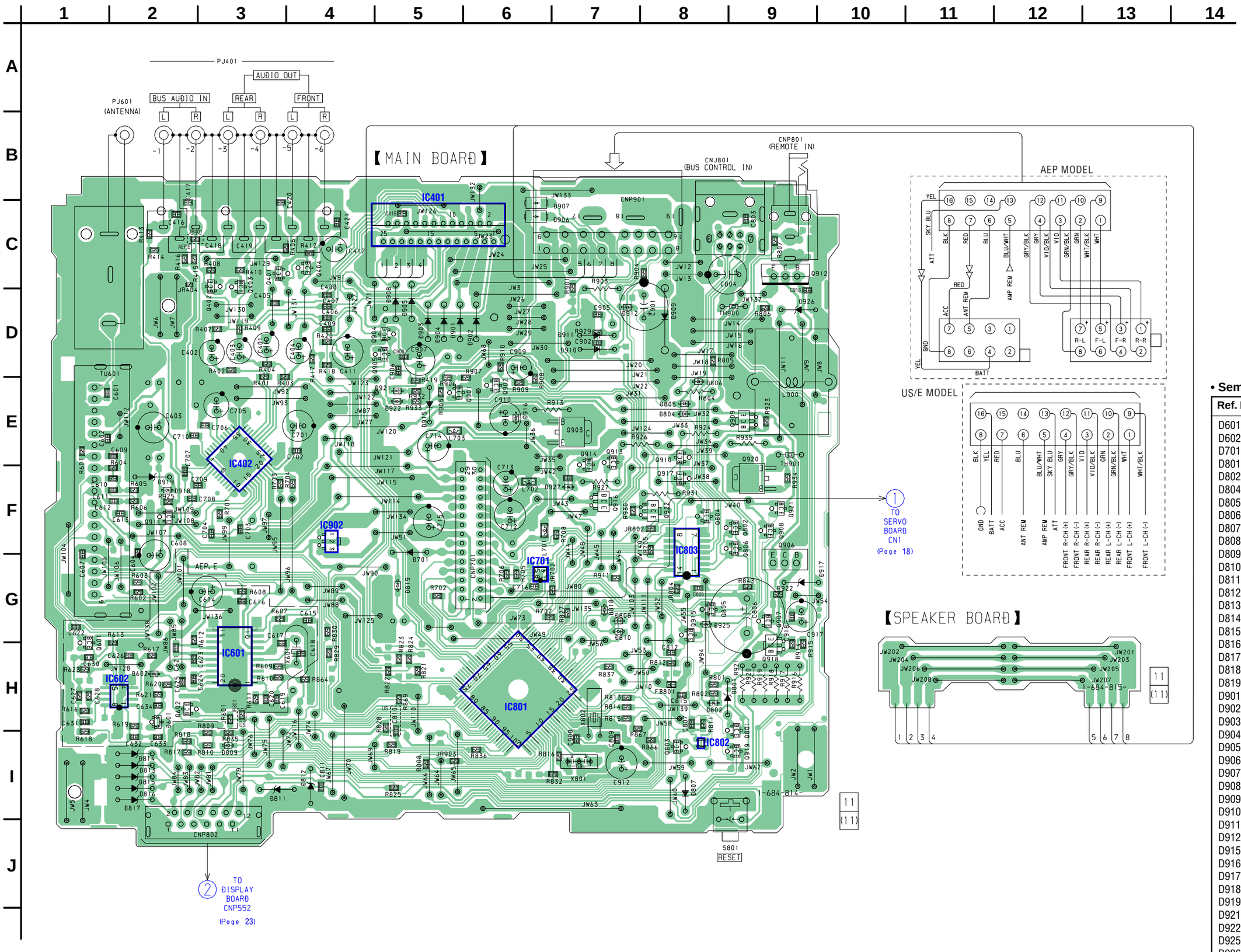


3-6. Schematic Diagram –CD Section (2/2)–

- Refer to page 15 for Waveforms.
- Refer to page 26 for IC Block Diagrams.
- Refer to page 29 for IC Pin Function Description.



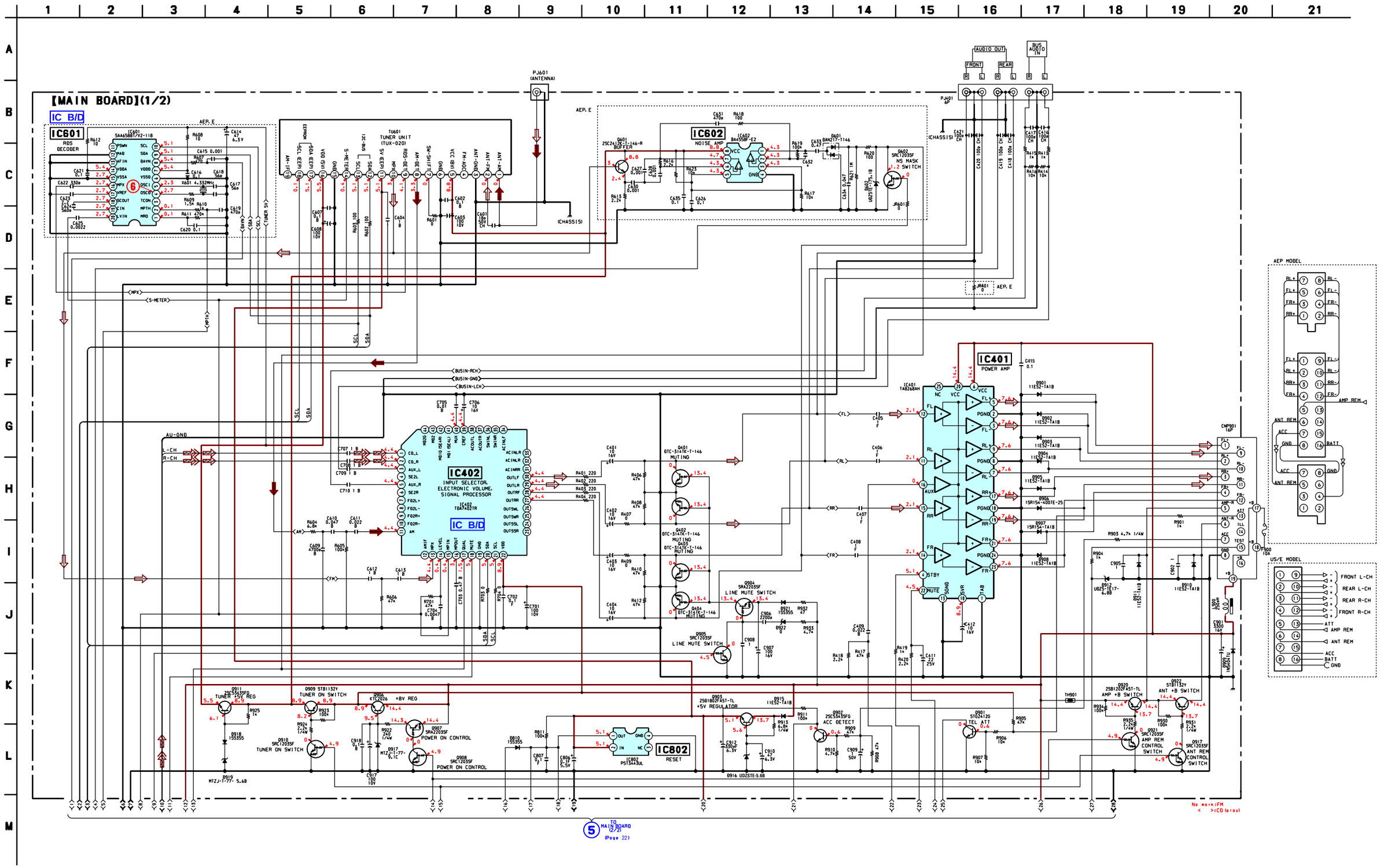
3-7. Printed Wiring Board –MAIN Section– • Refer to page 15 for Circuit Boards Location.



• **Semiconductor Location**

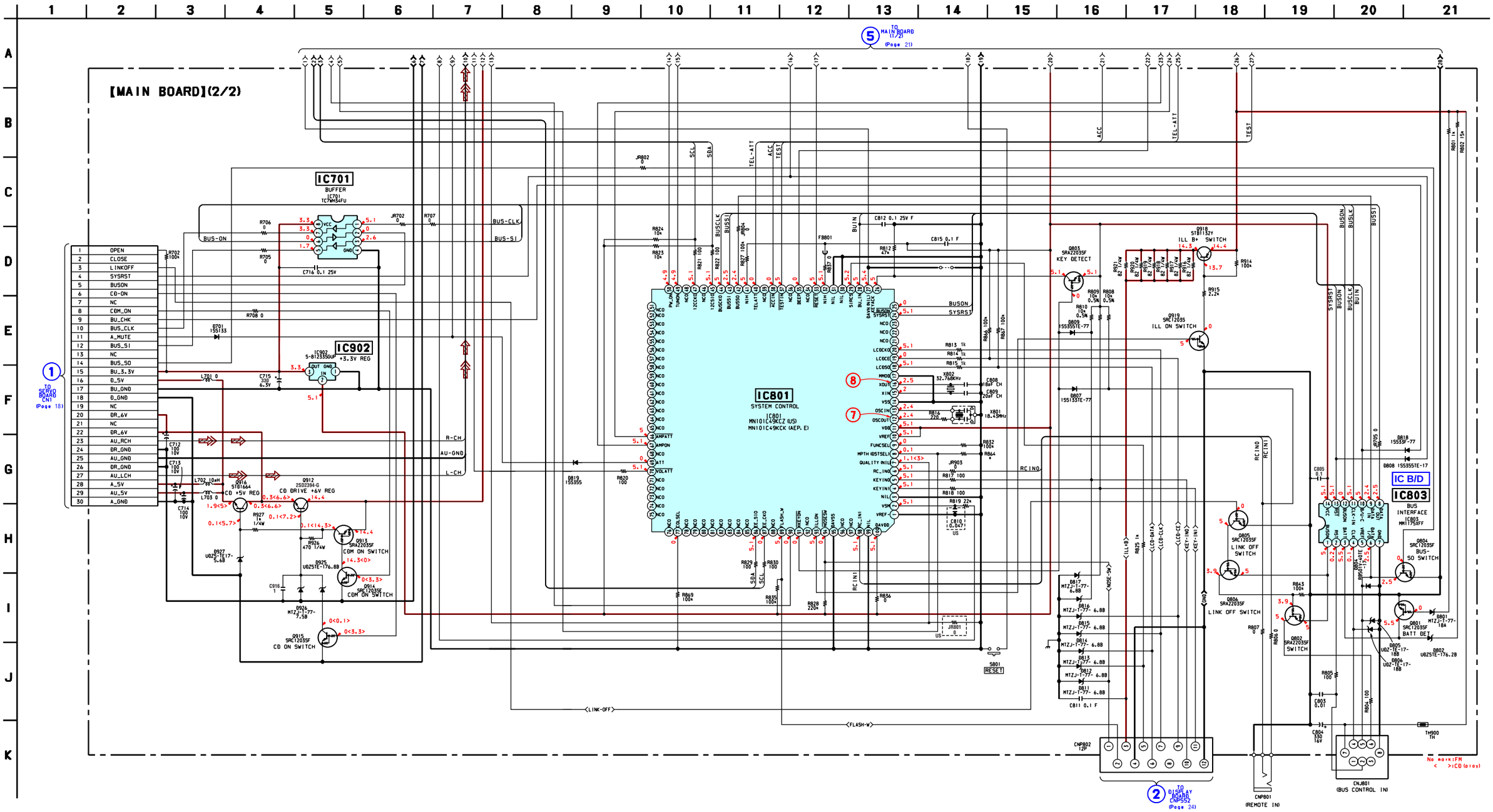
Ref. No.	Location	Ref. No.	Location
D601	H-2	IC401	C-5
D602	H-2	IC402	E-3
D701	F-5	IC601	H-3
D801	H-9	IC602	H-2
D802	H-8	IC701	G-6
D804	E-8	IC801	H-6
D805	E-8	IC802	I-8
D806	D-8	IC803	F-8
D807	I-8	IC902	F-4
D808	G-7		
D809	I-3	Q401	C-3
D810	G-7	Q402	D-3
D811	I-3	Q403	C-3
D812	I-4	Q404	C-4
D813	I-2	Q601	H-1
D814	I-2	Q602	H-2
D815	I-2	Q801	H-9
D816	I-2	Q802	F-9
D817	I-2	Q803	I-8
D818	G-7	Q804	F-8
D819	G-5	Q805	G-9
D901	D-5	Q806	F-9
D902	D-6	Q901	E-6
D903	D-5	Q902	E-6
D904	D-5	Q903	E-7
D905	D-5	Q904	D-5
D906	C-7	Q905	D-5
D907	C-7	Q906	F-9
D908	D-5	Q907	G-9
D909	D-8	Q908	F-9
D910	D-7	Q909	E-9
D911	D-7	Q910	E-8
D912	D-7	Q911	F-2
D915	E-5	Q912	C-10
D916	E-6	Q913	E-7
D917	G-9	Q914	E-7
D918	F-2	Q915	G-8
D919	F-2	Q916	F-7
D921	E-5	Q917	F-8
D922	E-5	Q918	G-9
D925	G-8	Q919	I-9
D926	D-9	Q920	E-9
D927	F-7	Q921	F-9
		Q922	F-8

3-8. Schematic Diagram –MAIN Section (1/2)– • Refer to page 15 for Waveforms.
• Refer to page 27 for IC Block Diagrams.



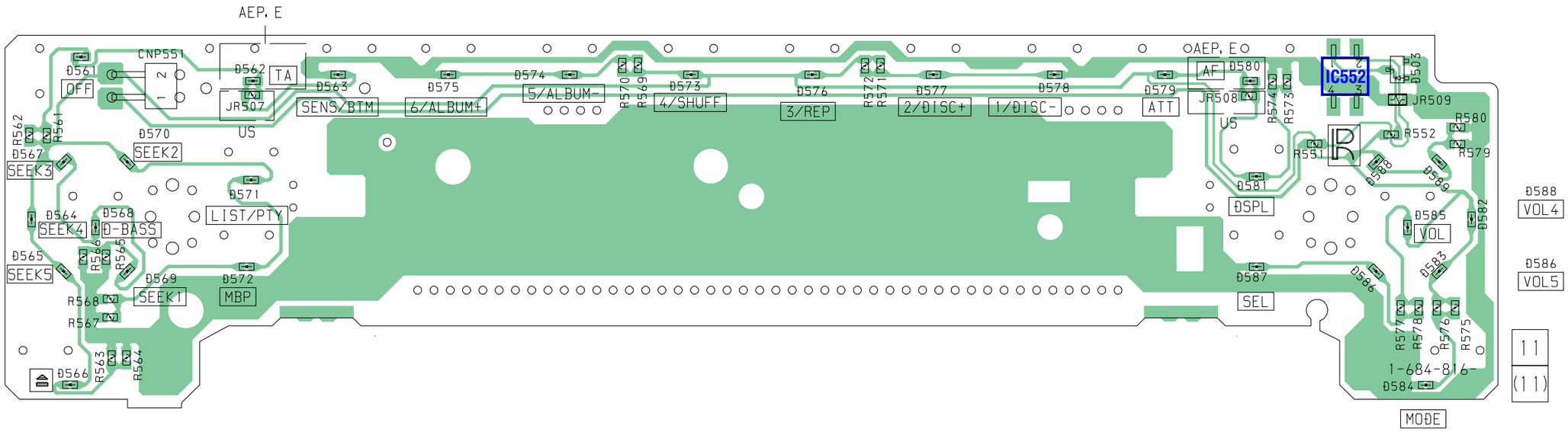
3-9. Schematic Diagram –MAIIN Section (2/2)–

- Refer to page 15 for Waveforms.
- Refer to page 28 for IC Block Diagrams.
- Refer to page 32 for IC Pin Function Description.

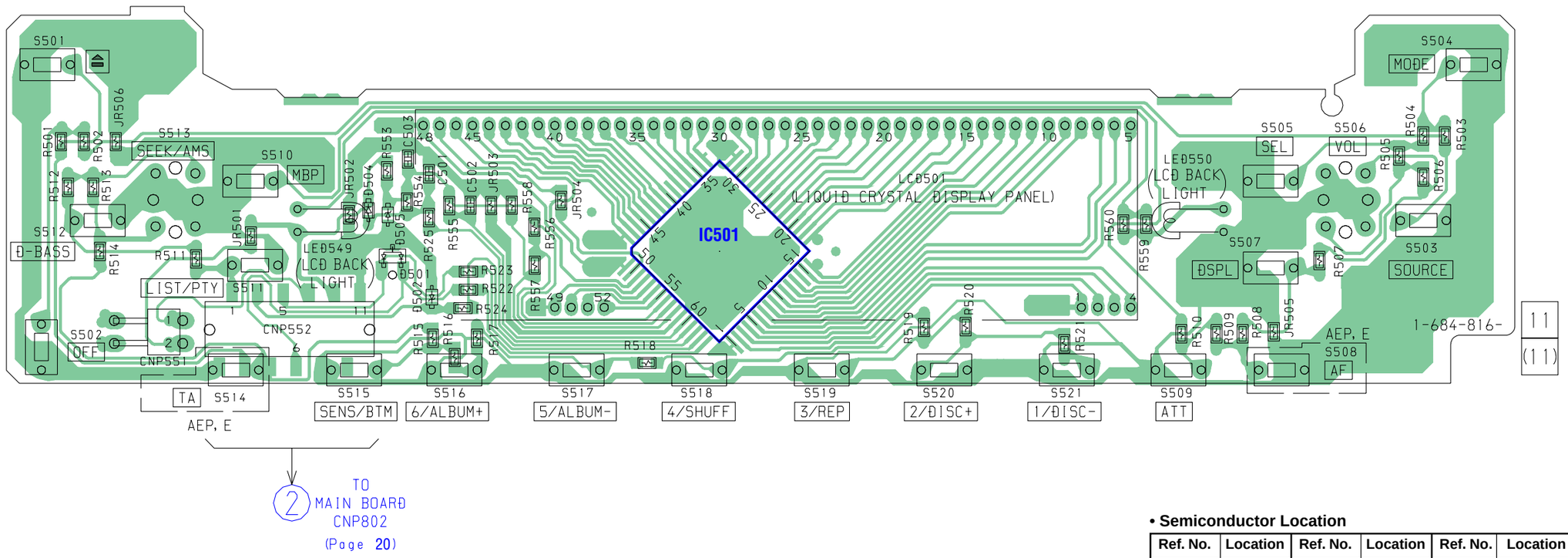


3-10. Printed Wiring Board –DISPLAY Section– • Refer to page 15 for Circuit Boards Location.

【DISPLAY BOARD】 (SIDE A)



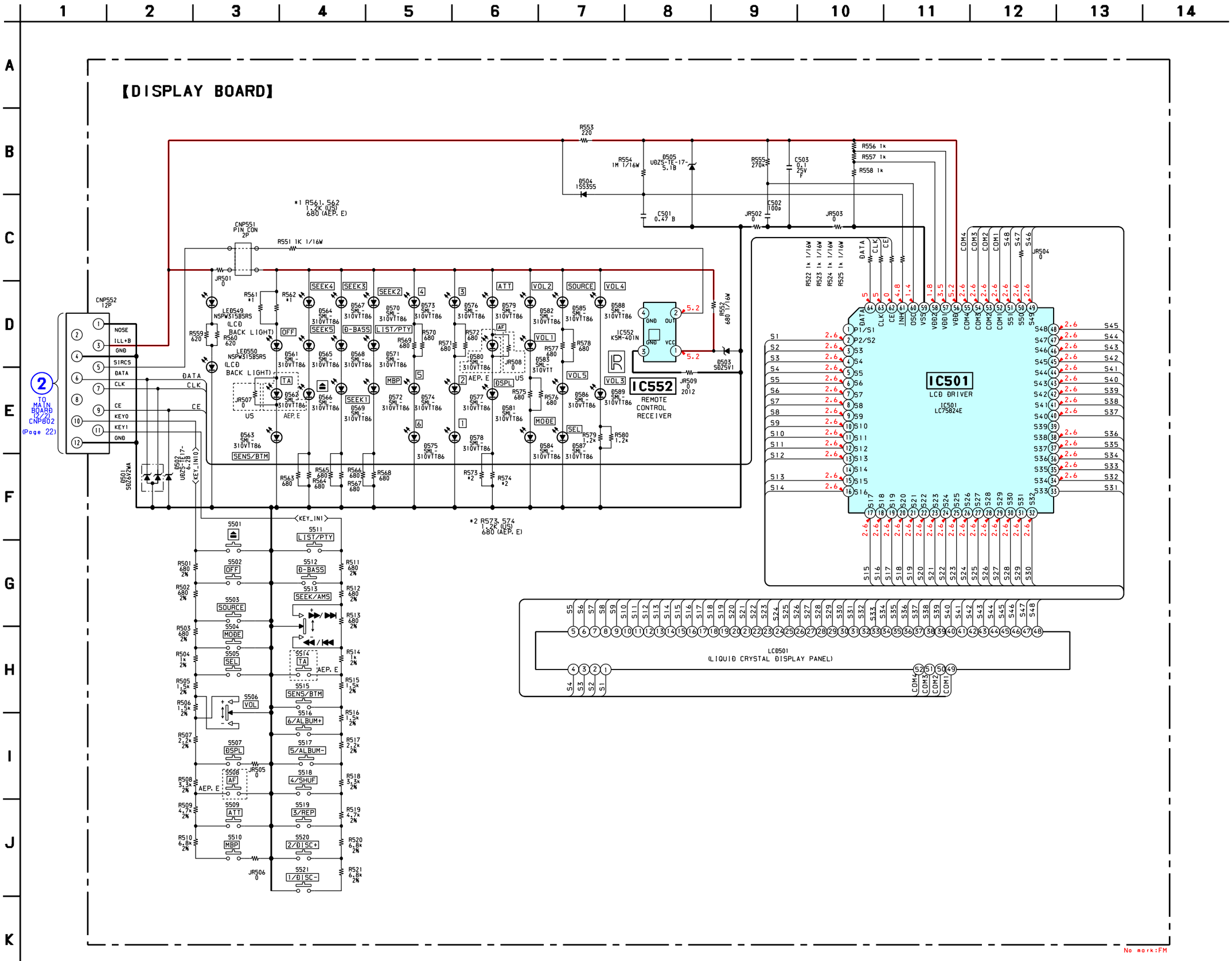
【DISPLAY BOARD】 (SIDE B)



• **Semiconductor Location**

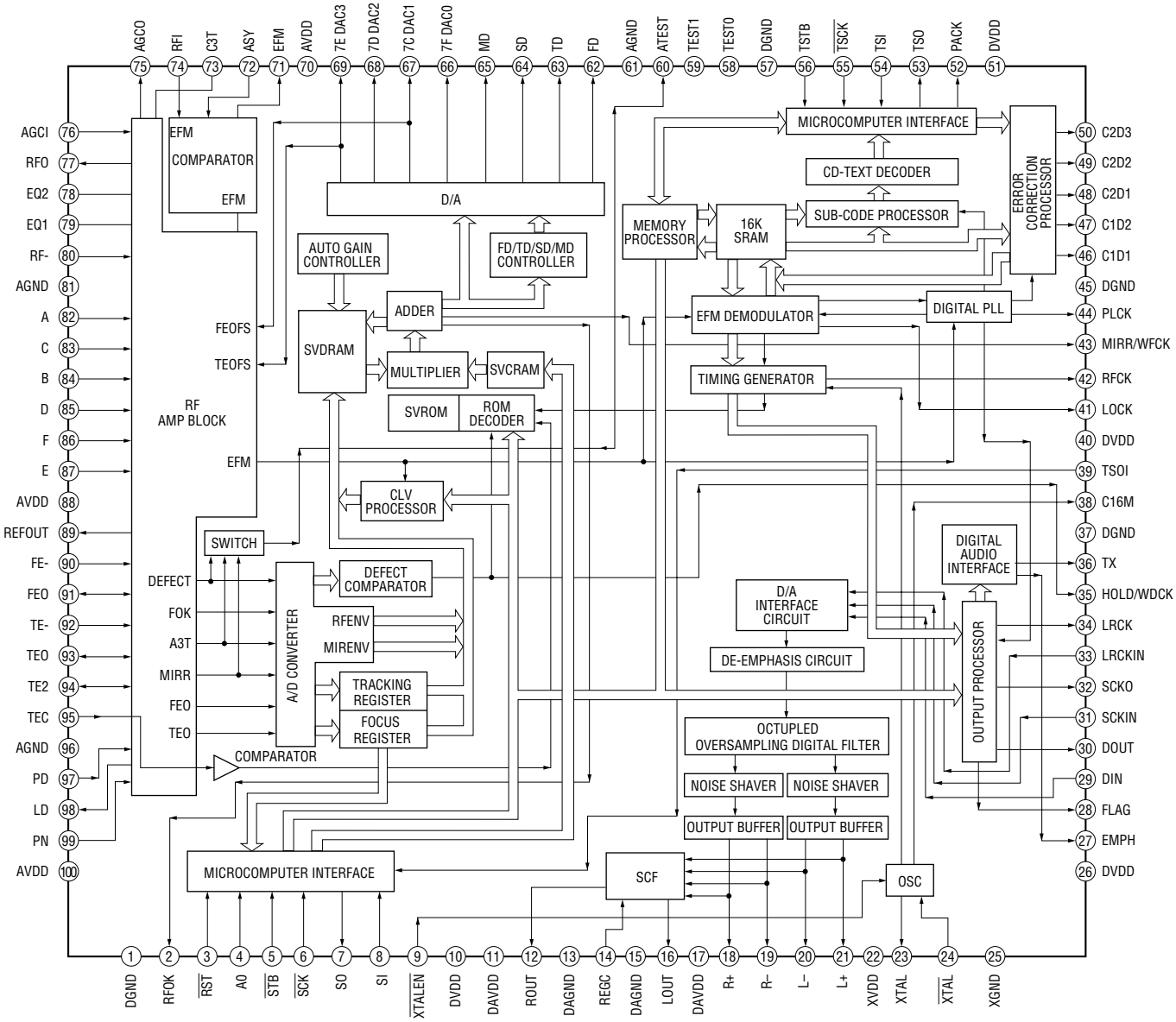
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D501	G-4	D566	D-2	D576	B-8	D586	C-12
D502	G-5	D567	B-2	D577	B-9	D587	C-11
D503	B-13	D568	C-2	D578	B-10	D588	B-12
D504	G-4	D569	C-3	D579	B-11	D589	B-13
D505	G-4	D570	B-2	D580	B-11		
D561	B-2	D571	C-3	D581	C-11	IC501	G-7
D562	B-3	D572	C-3	D582	C-13	IC552	B-12
D563	B-4	D573	B-7	D583	C-13	LED549	G-4
D564	C-2	D574	B-6	D584	D-13	LED550	F-11
D565	C-2	D575	B-5	D585	C-13		

3-11. Schematic Diagram –DISPLAY Section– **• Refer to page 15 for Waveforms.**

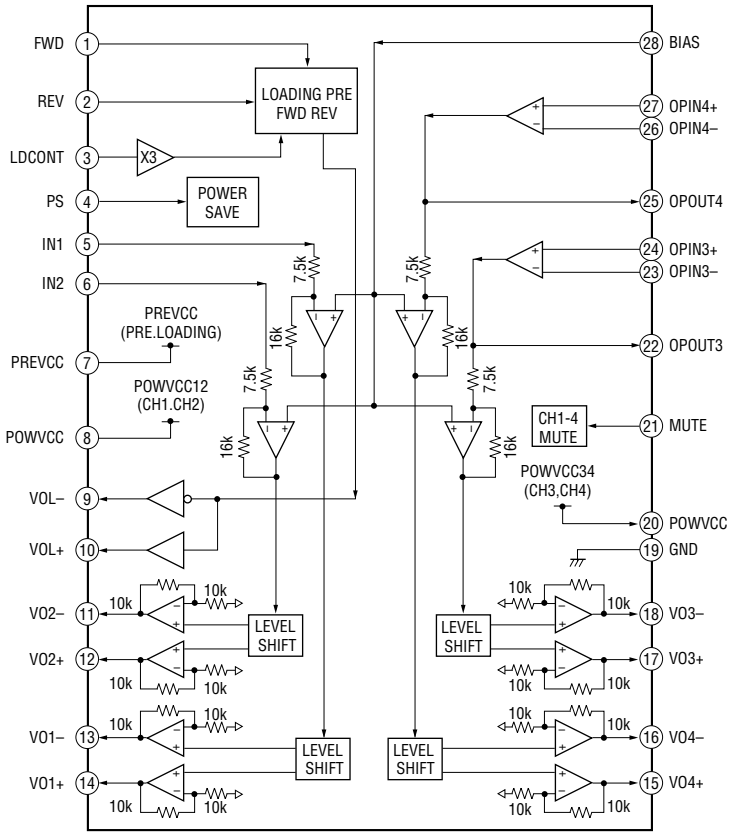


• IC BLOCK DIAGRAMS

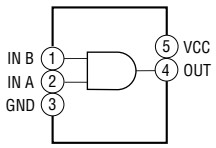
IC1 μPD63711GC-8EU



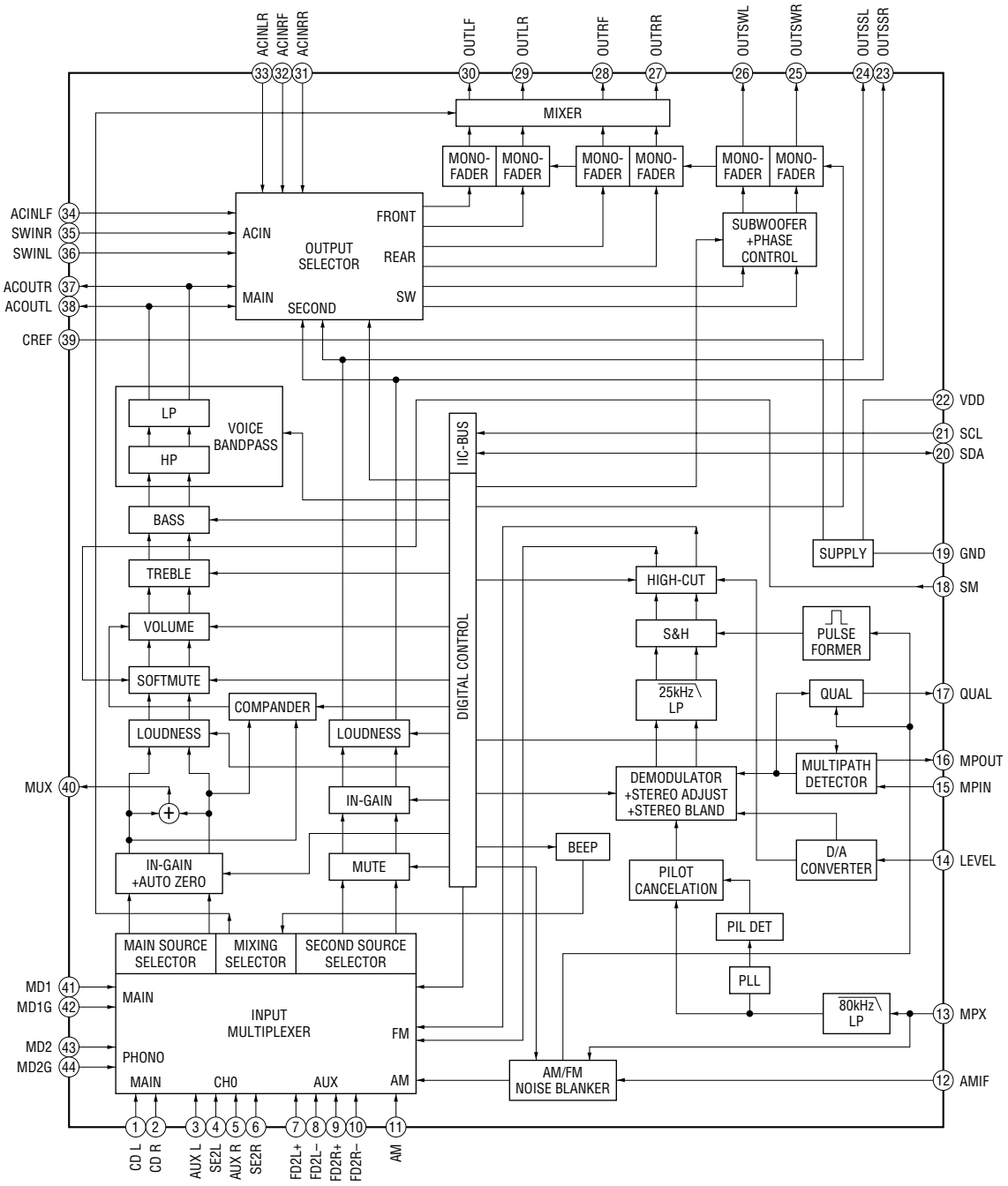
IC2 BA5810FP-E2



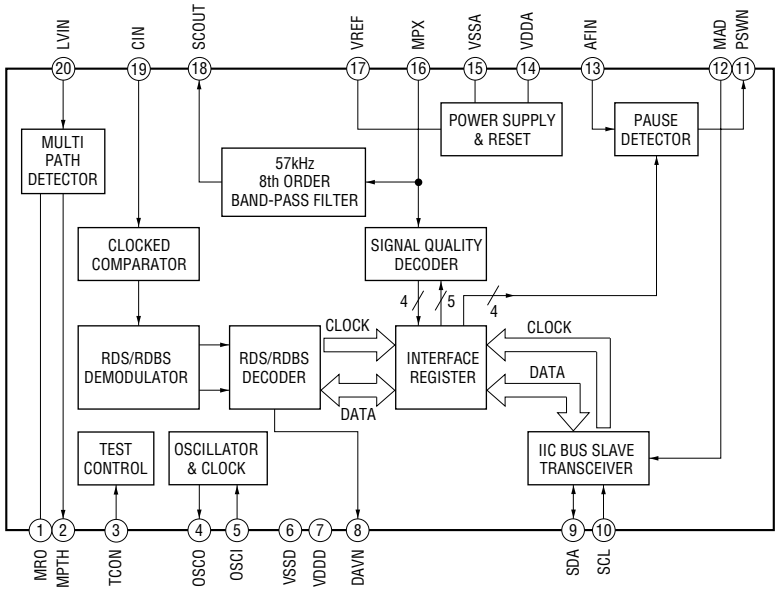
IC12 TC7SH08FU-TE85R



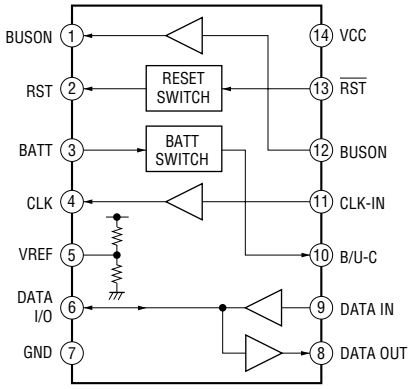
IC402 TDA7402TR



IC601 SAA6588T/V2-118



IC803 MM1175XFF



3-12. IC Pin Descriptions

• IC3 HD6432238RWN18TEI (CD Master Control) (SERVO Board)

Pin No.	Pin Name	I/O	Description
1	TEST	I	Test mode selection terminal (not used)
2	DECXRST	O	Reset signal output to the DSP IC(IC5) “L”: reset
3	DECSTBY	O	Standby mode control signal output to the DSP IC(IC5) “H”: standby
4 to 7	NC	O	Not used
8	PH3	I	CD PH3 photo sensor detection signal input (not used)
9	INSW/PH2	I	CD mechanism disc in switch detection signal input
10	LIMIT_SW	I	CD mechanism in-limit switch detection signal input
11	D_SW	I	CD mechanism down switch detection signal input
12	CVCC	—	System power supply (3.3V)
13	NC	O	Not used
14	VSS	—	Ground
15	NC	O	Not used
16	PH1	I	CD PH1 photo sensor detection signal input (not used)
17	EJECT	O	CD mechanism loading motor control signal output (eject operation)
18	LOAD	O	CD mechanism loading motor control signal output (load operation)
19 to 26	NC	O	Not used
27	FLAG	I	Correction unable detection signal input
28	RFOK	I	RFOK signal input from the servo IC (IC1)
29,30	NC	O	Not used
31	TXD	O	UART TXD PC connection output terminal
32	RXD	I	UART RXD PC connection input terminal
33	XTALEN	O	Crystal oscillation control signal output to the servo IC (IC1)
34	TSTB	O	CD text parameter strobe signal output to the servo IC (IC1)
35	STB	O	Data strobe signal output to the servo IC (IC1)
36	A0	O	Command/parameter identification signal output to the servo IC (IC1) “L”: command, “H”: parameter
37	CD_RST	O	Reset signal output to the servo IC (IC1)
38	PACK	I	CD text pack sync signal input from the servo IC (IC1)
39	NC	O	Not used
40	SELF_SW	I	CD mechanism self load position detection switch signal input
41	NC	O	Not used
42	AVSS	—	Ground for A/D converter
43,44	NC	O	Not used
45,46	NC	I	Not used
47	KEY0	I	Key switch signal input in the test mode
48	KEY1	I	Mode switch signal input in the test mode
49 to 52	NC	I	Not used
53	AVREF	—	Reference voltage for A/D converter
54	AVCC	—	Power supply for A/D converter
55	MD0	—	CPU operation mode setting terminal
56	MD1	—	CPU operation mode setting terminal
57	X1A	—	Sub clock oscillator terminal (not used,open)
58	X0A	—	Sub clock oscillator terminal (not used,open)
59	RSTX	I	Microcomputer reset signal input
60	NMI	—	Not used (fixed at “H”)
61	STBY	—	Not used (fixed at “H”)
62	VCC	—	Power supply
63	XTAL	—	Main clock oscillator terminal
64	VSS	—	Ground
65	EXTAL	—	Main clock oscillator terminal
66	FWE	I	Flash write enable signal input

Pin No.	Pin Name	I/O	Description
67	MD2	—	CPU operation mode setting terminal
68	FL_BOOT	I	Flash write selection signal input (“L”: flash write mode)
69	FL_W	O	Flash write control signal output connected to pin 66 (FWE)
70	NC	O	Not used
71	CDMON	O	CD mechanism power supply control signal output
72	DECINT	I	Interrupt signal input from the DSP IC (IC5)
73	CLOSE	O	Front panel operation request output (not used)
74	EJECT	O	Not used (fixed at “H”)
75	LINKOFF	O	LINK OFF signal output for UNI_LINK “H”: link off, “L”: link on
76	UNI_SO	O	Sony-Bus serial data output to the bus interface
77	UNI_SI	I	Sony-Bus serial data input from the bus interface
78	UNI_CK	I	Sony-Bus serial clock input from the bus interface
79	NC	O	Not used
80	SDA	I/O	I2C interface data input/output
81	SCL	O	I2C interface clock output
82	NC	O	Not used
83	TSI	O	Serial data output to the servo IC (IC1)
84	TSO	I	Serial data input from the servo IC (IC1)
85	TSCK	O	Serial clock output to the servo IC (IC1)
86	LEDDAT	O	LED data output for the jig
87	LEDCLK	O	LED clock output for the jig
88	LEDLAT	O	LED latch signal output for the jig
89,90	NC	O	Not used
91	BUSON	I	Sony-Bus BUS ON signal input from the bus interface
92	BUCHK	I	Back up power supply detection signal input
93	A-ATT	O	Audio muting control signal output
94	CDON	O	Power control signal output for the CD servo “H”= servo on, “L”: during loading
95	NC	O	Not used
96	U/J_SEL	I	Destination setting terminal
97	TEXTSEL	I	CD text function setting terminal
98	ESPSEL	O	Notused
99	CFSEL	I	Custom file function setting terminal
100	DOUTSEL	I	Digital output selection setting terminal “H”: digital output available

• **IC5 CXD9684R-005 (DSP) (SERVO Board)**

Pin No.	Pin Name	I/O	Description
1	/RESET	I	Reset input terminal “L”: reset
2	MIMD	I	Microcomputer interface mode selection input “H”: I2C, “L”: TSB
3, 4	AD0, AD1	O	External SRAM address signal output
5	MIDIO(I2C_SDA)	I/O	Serial data input/output
6	MICK(I2C_SCL)	I	Serial clock input
7	AD2	O	External SRAM address signal output
8	VDDT(3.3V)	—	Power supply (3.3V) for digital circuit
9	SDO	O	Data output
10, 11	AD3, AD4	O	External SRAM address signal output
12	SDI0	I	Data input 0
13	BCKIA	I	Bit clock input A
14	LRCKIA	I	LR clock input A
15	AD5	O	External SRAM address signal output
16	CE	O	External SRAM chip enable signal output
17	OE	O	External SRAM output enable signal output
18	VDD(2.5V)	—	Power supply (2.5V) for digital circuit
19	STANDBY	I	Standby mode control signal input “H”: STB, “L”: normal
20	VSS(2.5VGND)	—	Ground for digital circuit
21	VSSL(2.5VGND)	—	Ground for DAC Lch
22	VRAL	—	Reference voltage terminal for DAC Lch
23	LO	O	DAC Lch signal output (open)
24	VDAL(2.5V)	—	Power supply (2.5V) for DAC Lch
25	VDAR(2.5V)	—	Power supply (2.5V) for DAC Rch
26	RO	O	DAC Rch signal output (open)
27	VRAR	—	Reference voltage terminal for DAC Rch
28	VSSR(2.5VGND)	—	Ground for DAC Rch
29	TESTP	I	Terminal for test “H”: test mode, “L”: normal (fixed at “L”)
30	CKS	I	VCO selection input “H”: VCO, “L”: X1 input
31 to 34	AD12 to AD9	O	External SRAM address signal output
35	VDDT(3.3V)	—	Power supply (3.3V) for digital circuit
36 to 38	AD8 to AD6	O	External SRAM address signal output
39	REQ	O	Interrupt request signal output to the CD master control (IC3)
40	VSS	—	Ground for digital circuit
41, 42	AD13,AD14	O	External SRAM address signal output
43	WR	O	External SRAM write signal output
44, 45	AD16,AD15	O	External SRAM address signal output
46, 47	IO0,IO1	I/O	External SRAM data input/output
48	VSS	—	Ground for digital circuit
49 to 51	IO2 to IO4	I/O	External SRAM data input/output
52	VDD(2.5V)	—	Power supply (2.5V) for digital circuit
53 to 55	IO5 to IO7	I/O	External SRAM data input/output
56	VSSP	—	Ground for VCO circuit
57	PDO	O	PLL phase error detection signal output
58	VCOI	I	VCO control voltage input
59	VDDP	—	Power supply for VCO circuit
60	XRDE	I/O	External clock input, audio clock output (not used)
61	VDDX(2.5V)	—	Power supply for oscillation circuit
62	XI	I	Resonator terminal
63	XO	O	Resonator terminal
64	VSSX	—	Ground for oscillation circuit

• **IC801 MN101C49KCZ(US)/MN101C49KCK(AEP,E) (System Control) (MAIN Board)**

Pin No.	Pin Name	I/O	Description
1	VREF-	—	Power supply for A/D converter
2	VSM	I	S-meter voltage detection signal input from the tuner unit (TU601)
3	NIL	I	Connected to ground
4	KEYIN1	I	Key signal input
5	KEYIN0	I	Key signal input
6	RC_IN0	I	Rotary commander key signal input from the remote-in jack (CNP801)
7	QUALITY(NIL)	I	Noise detection signal input (US: connected to ground)
8	MPTH(DSTSEL)	I	Multipass detection signal input (US: destination setting terminal)
9	FUNCSEL	I	Function setting terminal
10	VREF+	—	Power supply for A/D converter
11	VDD	—	Power supply
12	OSCOUT	O	High speed clock output
13	OSCIN	I	High speed clock input
14	VSS	—	Ground
15	XI	I	Low speed clock input
16	XO	O	Low speed clock output
17	MMOD	—	Memory mode selection input “L”: single chip mode (connected to ground)
18	LCDSO	O	Serial data output to the LCD driver (IC501)
19	LCDCE	O	Chip enable signal output to the LCD driver (IC501)
20	LCDCKO	O	Serial clock output to the LCD driver (IC501)
21 to 23	NCO	O	Not used (open)
24	$\overline{\text{SYSRST}}$	O	System reset signal output
25	$\overline{\text{BUSON}}$	O	Bus on signal output to the bus interface
26	KEYACK	I	Key acknowledge detection signal input
27	DAVN(NIL)	I	RDS data block sync detection signal input (US: connected to ground)
28	BU_IN	I	Back up power supply detection signal input
29	SIRCS	I	Remote control signal input from the remote control receiver (IC552)
30, 31	NIL	I	Connected to ground
32	NIH	I	Connected to power supply
33	$\overline{\text{RESET}}$	I	Microcomputer reset signal input from the reset IC (IC802)
34	NCO	O	Not used (open)
35	BEEP	O	Beep signal output to the power amplifier (IC401)
36	NCO	O	Not used (open)
37	$\overline{\text{TESTIN}}$	I	Test mode detection signal input
38	$\overline{\text{ACCIN}}$	I	Accessory power supply detection signal input
39	NCO	O	Not used (open)
40	TELATT	I	TELL ATT detction signal input
41	NIH	I	Fixed at “H”
42	BUSSO	O	Sony_Bus serial data output to the bus interface IC (IC803)
43	BUSSI	I	Sony_Bus serial data intput from the bus interface IC (IC803)
44	BUSCKO	O	Sony_Bus serial clock output to the bus interface IC (IC803)
45	I2CSIO	I/O	I2C bus serial data input/output
46	NCO	O	Not used (open)
47	I2CCKO	O	I2C bus serial clock output
48	NCO	O	Not used (open)
49	TUNON	O	Tuner power supply control signal output
50	PW_ON	O	System power supply control signal output
51 to 65	NCO	O	Not used (open)
66	$\overline{\text{AMPATT}}$	O	Power amplifier ATT control signal output to the power amplifier (IC401)
67	AMPON	O	Power amplifer standby control signal output to the power amplifier (IC401)

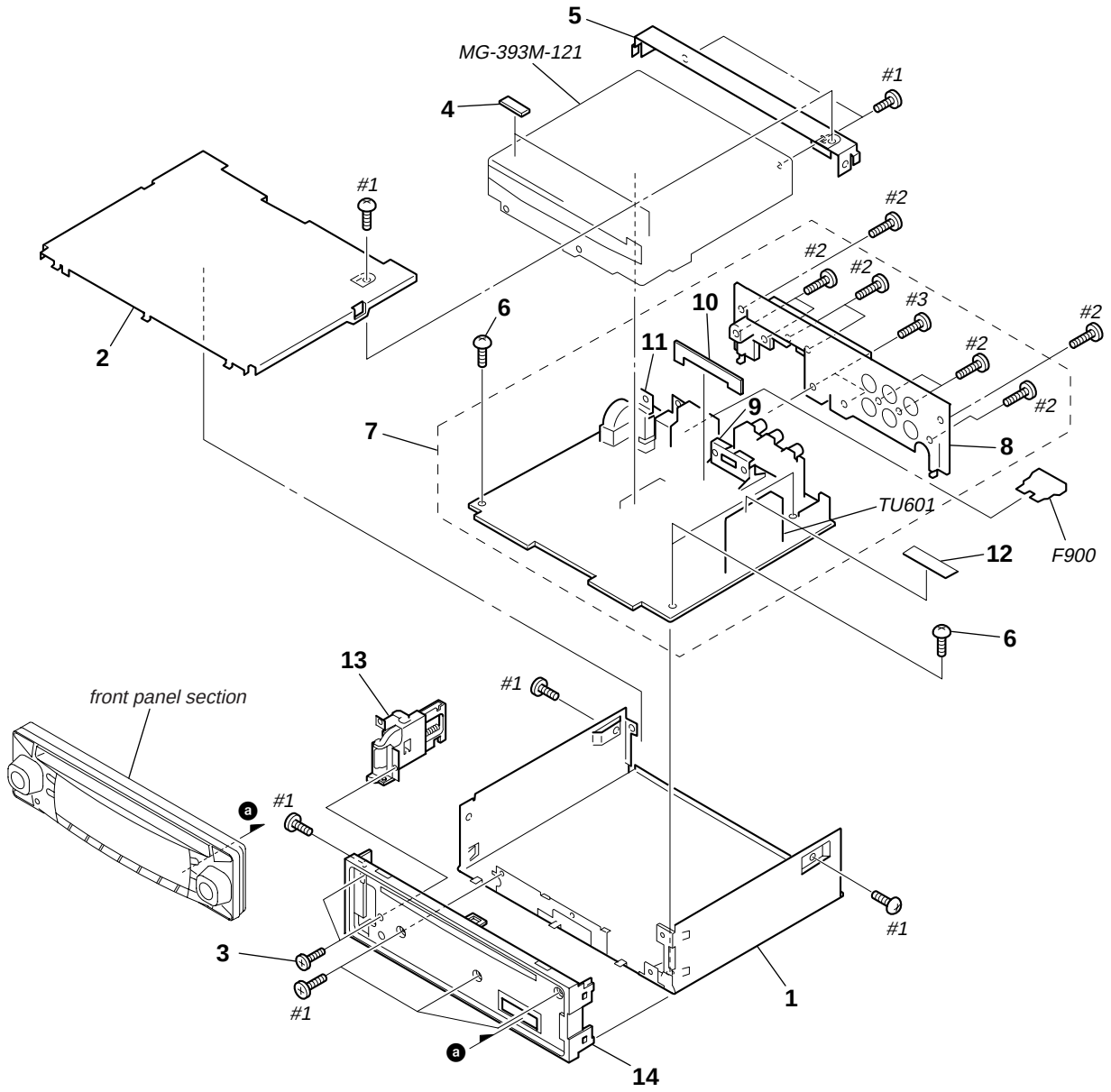
Pin No.	Pin Name	I/O	Description
68	NCO	O	Not used (open)
69	ATT	O	System ATT control signal output
70	$\overline{\text{VOLATT}}$	O	Electronic volume ATT control signal output to the electronic volume (IC402)
71 to 76	NCO	O	Not used (open)
77	COLSEL	I	color selection setting terminal “H”: green , ‘L”: amber
78 to 85	NCO	O	Not used (open)
86	EE_SIO	I/O	EEPROM serial data input/output
87	EE_CKO	O	EEPROM serial clock output
88	NCO	O	Not used (open)
89	FLASH_W	I	Flash write enable signal input
90	NS_MASK(NCO)	O	Noise mask signal output (US: not used, open)
91	$\overline{\text{XKEYON}}$	O	Power supply control signal to the function key
92	NCO	O	Not used (open)
93	ILLON	O	Illumination power supply control signal output
94	$\overline{\text{NOSESW}}$	I	Front panel existence detection signal input “L”: with panel, “H”: without panel
95	DAVSS	—	Ground for D/A converter
96, 97	NCO	O	Not used (open)
98	RC_IN1	I	Remote commander shift key signal input from the remote-in jack (CNP801) “L”: shift key on
99	NIL	I	Connected to ground
100	DAVDD	—	Power supply for D/A converter

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.
- Accessories are given in the last of this parts list.

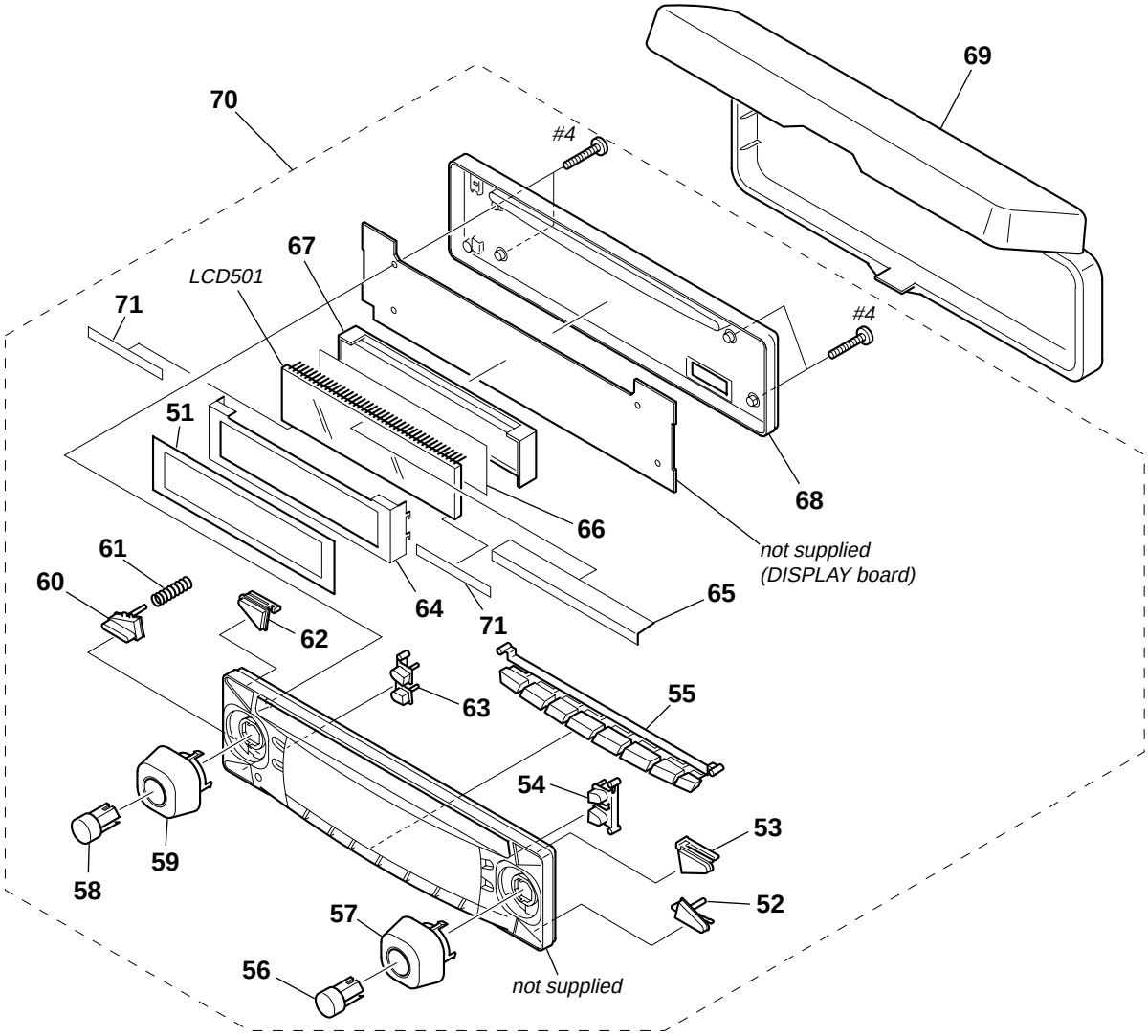
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

4-1. Chassis Section



Ref. No.	Part No.	Description	Remarks
* 1	3-224-612-02	CHASSIS (CD)	
2	3-224-309-22	COVER	
3	3-231-472-01	SCREW (+B 2X4)	
* 4	3-024-285-01	CUSHION (RUBBER)	
* 5	3-041-173-11	BRACKET (CD)	
6	3-922-535-11	SCREW (+BTT)	
7	A-3274-236-A	MAIN BOARD, COMPLETE (US)	
7	A-3274-243-A	MAIN BOARD, COMPLETE (AEP, E)	
8	3-236-932-01	HEAT SINK (6PIN)	
9	3-019-565-01	BRACKET (IC)	
10	1-684-815-11	SPEAKER BOARD	
11	3-041-261-11	BRACKET (TR)	
* 12	3-048-259-01	SHEET (E)	
13	X-3380-594-1	LOCK ASSY (S)	
14	X-3381-269-1	PANEL (1) ASSY, SUB	
F900	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
TU601	A-3220-812-A	TUNER UNIT (TUX-020)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#3	7-685-795-09	SCREW +PTT 2.6X12 (S)	

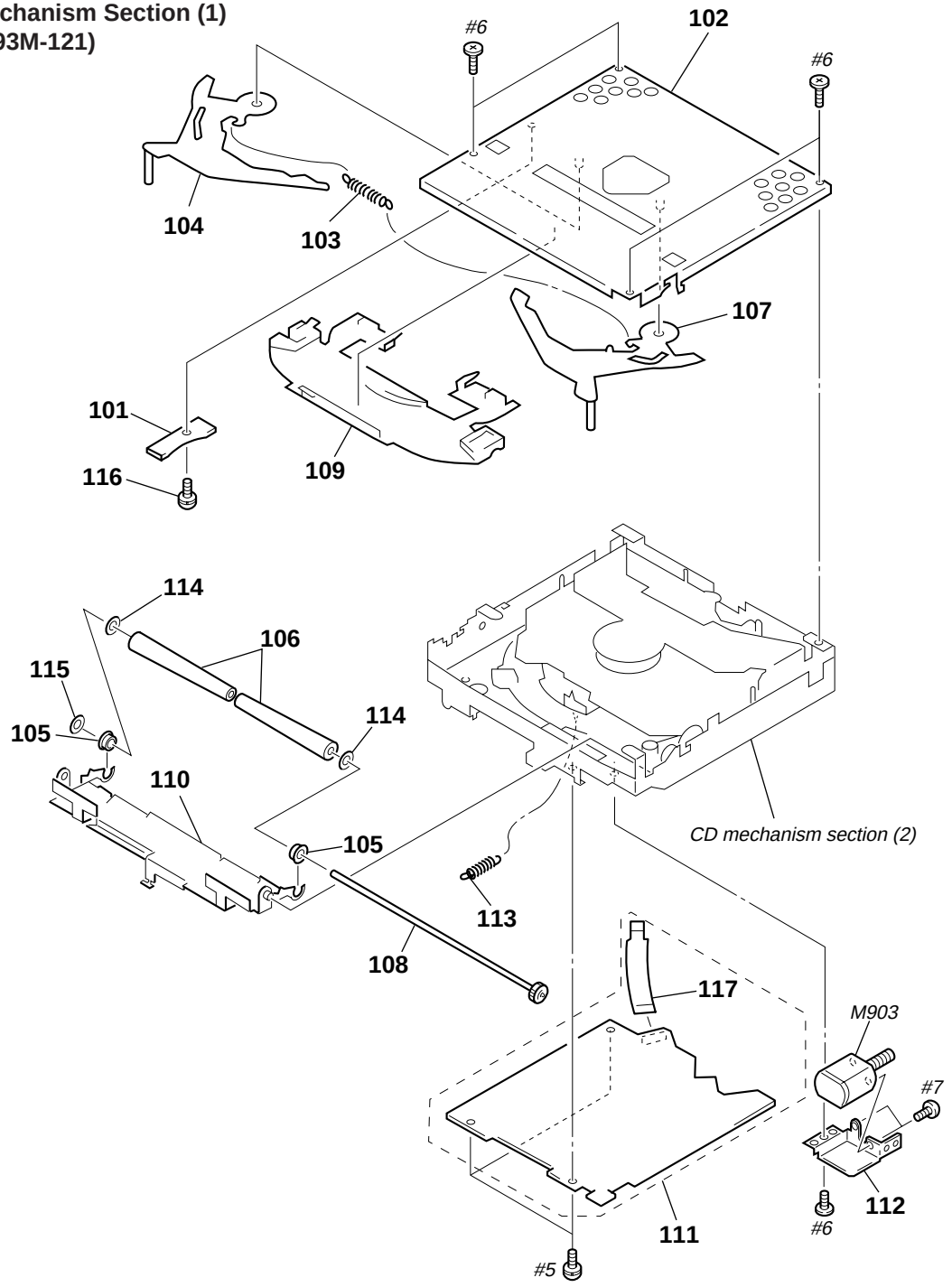
4-2. Front Panel Section



Ref. No.	Part No.	Description	Remarks
51	3-236-926-01	CUSHION (LCD)	
52	3-236-909-01	BUTTON (OFF)	
53	3-236-912-01	BUTTON (EJECT)	
54	3-236-908-11	BUTTON (MBP)	
55	3-236-910-01	BUTTON (1-6) (US)	
55	3-236-910-11	BUTTON (1-6) (AEP, E)	
56	3-236-905-01	BUTTON (D-BASS)	
57	X-3381-356-2	RING (SEEK) ASSY	
58	3-236-904-01	BUTTON (SOURCE)	
59	X-3381-355-2	RING (VOL) ASSY	
60	3-236-911-01	BUTTON (RELEASE)	
61	3-240-348-01	SPRING (RELEASE)	
62	3-236-907-01	BUTTON (MODE)	

Ref. No.	Part No.	Description	Remarks
63	3-236-906-01	BUTTON (SEL)	
64	3-236-921-01	PLATE (LCD), GROUND	
65	3-229-751-01	SHEET (LCD.UP)	
66	3-236-920-01	SHEET (LCD), DIFFUSION	
67	X-3381-357-1	HOLDER (LCD) ASSY	
67	X-3381-357-1	HOLDER (LCD) ASSY (AEP, E)	
68	3-236-902-01	PANEL, FRONT BACK	
69	X-3382-160-1	CASE ASSY	
* 70	A-3290-928-A	PANEL COMPLETE ASSY, FRONT (US)	
* 70	A-3290-933-A	PANEL COMPLETE ASSY, FRONT (AEP, E)	
71	3-227-293-11	SHEET (LCD)	
LCD501	1-804-693-11	DISPLAY PANEL, LIQUID CRYSTAL	
#4	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	

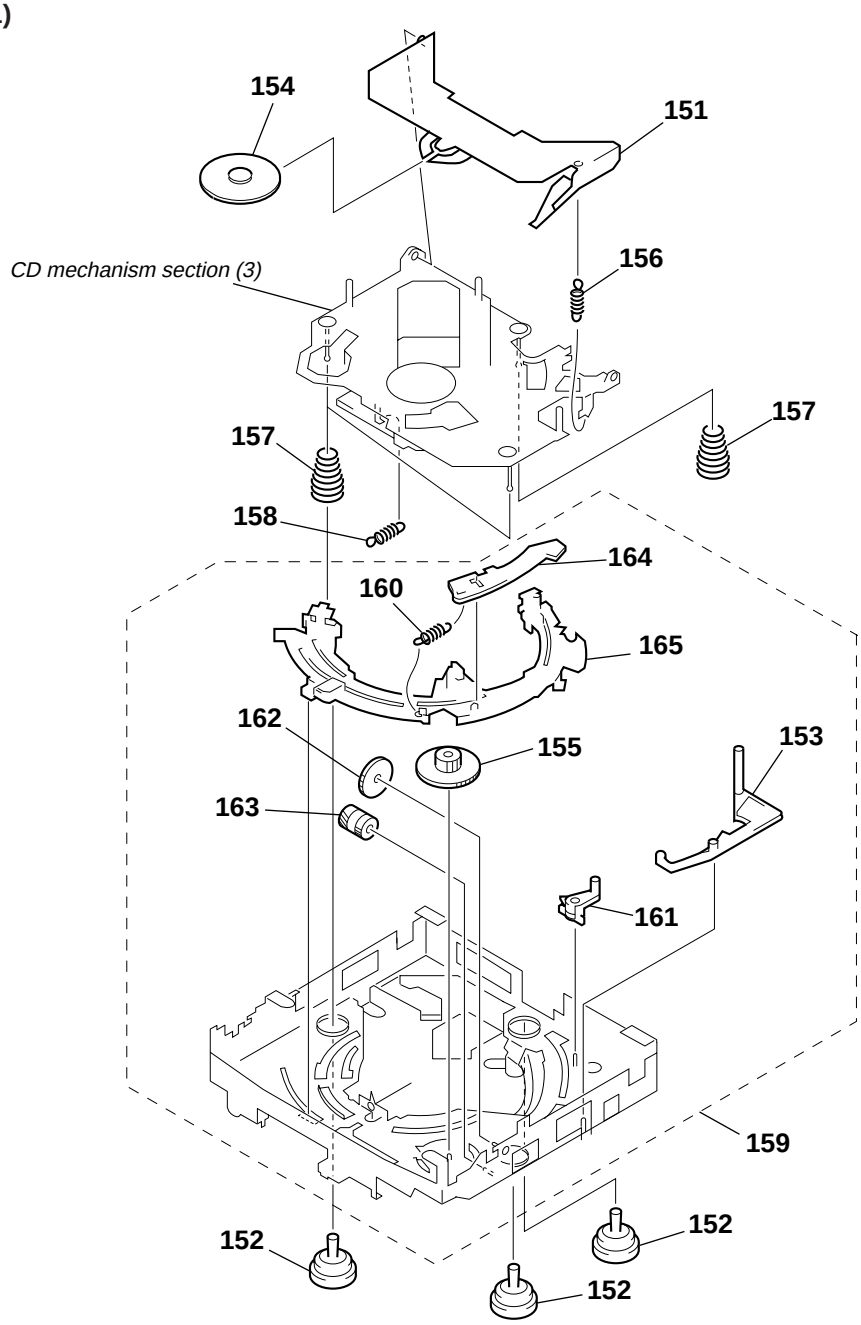
4-3. CD Mechanism Section (1)
(MG-393M-121)



Ref. No.	Part No.	Description	Remarks
101	A-3274-253-A	DISC IN SW BOARD, COMPLETE	
102	3-040-039-01	CHASSIS (T)	
103	3-040-038-01	SPRING (LR), TENSION	
104	3-040-050-01	LEVER (L)	
105	3-040-022-01	RETAINER (ROLLER), SHAFT	
106	3-040-044-01	ROLLER (S)	
107	3-040-067-01	LEVER (R)	
108	A-3301-980-A	SHAFT ROLLER ASSY	
109	3-040-037-01	GUIDE (DISC)	
110	3-040-040-01	ARM (ROLLER)	
111	A-3274-250-A	SERVO BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remarks
112	3-221-779-01	BRACKET (MOTOR)	
113	3-040-034-01	SPRING (RA), TENSION	
114	3-040-042-01	WASHER	
115	3-043-880-01	RING (RA), RETAINING	
116	3-044-206-11	SCREW, SPECIAL	
117	1-676-707-11	PICK-UP FLEXIBLE BOARD	
M903	A-3315-039-A	MOTOR SUB ASSY, LO (LOADING)	
#5	7-628-253-00	SCREW, SPECIAL	
#6	7-627-553-37	PRECISION SCREW +P 2X3 TYPE 3	
#7	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3	

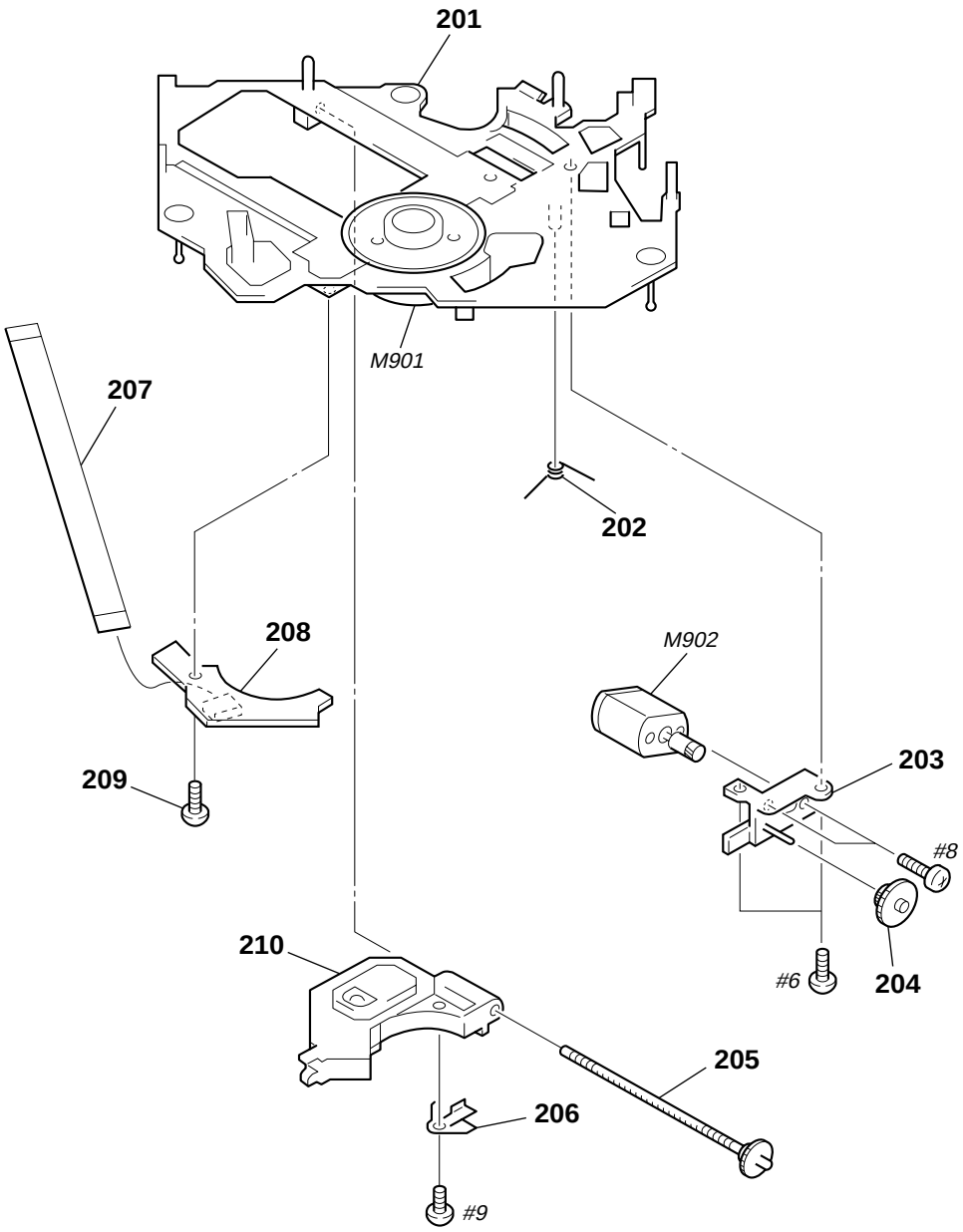
4-4. CD Mechanism Section (2)
(MG-393M-121)



Ref. No.	Part No.	Description	Remarks
151	3-040-025-01	ARM, CHUCKING	
152	3-040-031-01	DAMPER (T)	
153	3-040-056-01	LEVER (D)	
154	3-040-024-01	RETAINER (DISC)	
155	3-040-054-01	WHEEL (LW), WORM	
156	3-040-026-01	SPRING (CH), TENSION	
157	3-040-032-01	SPRING (FL), COMPRESSION	
158	3-040-033-01	SPRING (KF1), TENSION	

Ref. No.	Part No.	Description	Remarks
159	A-3307-422-A	CHASSIS (M) COMPLETE ASSY	
160	3-040-059-01	SPRING (TR), TENSION	
161	3-040-057-01	LEVER (LOCK)	
162	3-040-058-01	GEAR (MDL)	
163	3-040-052-01	WHEEL (U), WORM	
164	3-040-051-02	LEVER (TR)	
165	3-040-053-01	RING, LOADING	

4-5. CD Mechanism Section (3)
(MG-393M-121)



Ref. No.	Part No.	Description	Remarks
201	X-3378-480-1	CHASSIS (OP) ASSY (including M901)	
202	3-040-029-01	SPRING (SL), TORSION	
203	3-040-045-01	BASE (DRIVING)	
204	3-040-194-01	GEAR (MIDWAY)	
205	A-3301-983-A	SHAFT (FEED) ASSY	
206	3-040-030-01	SPRING (FEED), PLATE	
207	1-823-951-11	FLEXIBLE FLAT CABLE 6P	

Ref. No.	Part No.	Description	Remarks
208	A-3274-254-A	LIMIT SW BOARD, COMPLETE	
209	3-909-607-01	SCREW	
⚠210	8-820-103-03	OPTICAL PICK-UP KSS-720A	
M902	A-3301-985-A	MOTOR ASSY, SLED	
#6	7-627-553-37	PRECISION SCREW +P 2X3 TYPE 3	
#8	7-627-850-28	SCREW,PRECISION +P 1.4X3	
#9	7-627-000-00	SCREW,PRECISION +P1.7X2.2TYPE3	

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

SECTION 5
ELECTRICAL PARTS LIST

DISC IN SW | DISPLAY

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

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

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

Ref. No.	Part No.	Description			Remarks
	A-3274-253-A	DISC IN SW BOARD, COMPLETE			
		**********			
		< SWITCH >			
SW2	1-529-566-31	SWITCH, PUSH (1 KEY) (SELF)			
SW3	1-529-566-31	SWITCH, PUSH (1 KEY) (DISC IN)			
**********					
		DISPLAY BOARD			
		**********			
*	3-227-293-01	SHEET (LCD)			
*	3-229-751-01	SHEET (LCD.UP)			
	3-236-920-01	SHEET (LCD), DIFFUSION			
	3-236-921-01	PLATE (LCD), GROUND			
		< CAPACITOR >			
C501	1-117-863-11	CERAMIC CHIP	0.47uF	10.00% 6.3V	
C502	1-162-927-11	CERAMIC CHIP	100PF	5% 50V	
C503	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
		< CONNECTOR >			
* CNP551	1-779-131-11	PIN, CONNECTOR 2P			
CNP552	1-794-312-21	PIN, CONNECTOR 12P			
		< DIODE >			
D501	8-719-068-68	DIODE SDZ6V2WA			
D502	8-719-069-56	DIODE UDZSTE-176.2B			
D503	8-719-073-15	DIODE SDZ5V1			
D504	8-719-988-61	DIODE 1SS355TE-17			
D505	8-719-069-54	DIODE UDZSTE-175.1B			
D561	8-719-053-09	DIODE SML-310VTT86 (OFF)			
D562	8-719-053-09	DIODE SML-310VTT86 (TA) (AEP, E)			
D563	8-719-053-09	DIODE SML-310VTT86 (SENS/BTM)			
D564	8-719-053-09	DIODE SML-310VTT86 (SEEK4)			
D565	8-719-053-09	DIODE SML-310VTT86 (SEEK5)			
D566	8-719-053-09	DIODE SML-310VTT86 (⏏)			
D567	8-719-053-09	DIODE SML-310VTT86 (SEEK3)			
D568	8-719-053-09	DIODE SML-310VTT86 (D-BASS)			
D569	8-719-053-09	DIODE SML-310VTT86 (SEEK1)			
D570	8-719-053-09	DIODE SML-310VTT86 (SEEK2)			
D571	8-719-053-09	DIODE SML-310VTT86 (LIST/PTY)			
D572	8-719-053-09	DIODE SML-310VTT86 (MBP)			
D573	8-719-053-09	DIODE SML-310VTT86 (4/SHUFF)			
D574	8-719-053-09	DIODE SML-310VTT86 (5/ALBUM-)			
D575	8-719-053-09	DIODE SML-310VTT86 (6/ALBUM+)			
D576	8-719-053-09	DIODE SML-310VTT86 (3/REP)			
D577	8-719-053-09	DIODE SML-310VTT86 (2/DISC+)			
D578	8-719-053-09	DIODE SML-310VTT86 (1/DISC-)			
D579	8-719-053-09	DIODE SML-310VTT86 (ATT)			
D580	8-719-053-09	DIODE SML-310VTT86 (AF) (AEP, E)			
D581	8-719-053-09	DIODE SML-310VTT86 (DSPL)			
D582	8-719-053-09	DIODE SML-310VTT86 (VOL2)			
D583	8-719-053-09	DIODE SML-310VTT86 (VOL1)			
D584	8-719-053-09	DIODE SML-310VTT86 (MODE)			
D585	8-719-053-09	DIODE SML-310VTT86 (SOURCE)			
D586	8-719-053-09	DIODE SML-310VTT86 (VOL5)			
D587	8-719-053-09	DIODE SML-310VTT86 (SEL)			
D588	8-719-053-09	DIODE SML-310VTT86 (VOL4)			
D589	8-719-053-09	DIODE SML-310VTT86 (VOL3)			
		< IC >			
IC501	8-759-366-34	IC LC75824E			
IC552	8-749-017-35	IC KSM-401N (R)			
		< JUMPER RESISTOR >			
JR501	1-216-864-11	METAL CHIP	0	5% 1/16W	
JR502	1-216-864-11	METAL CHIP	0	5% 1/16W	
JR503	1-216-864-11	METAL CHIP	0	5% 1/16W	
JR504	1-216-864-11	METAL CHIP	0	5% 1/16W	
JR505	1-216-864-11	METAL CHIP	0	5% 1/16W	
JR506	1-216-864-11	METAL CHIP	0	5% 1/16W	
JR507	1-216-864-11	METAL CHIP	0	5% 1/16W	(US)
JR508	1-216-864-11	METAL CHIP	0	5% 1/16W	(US)
JR509	1-216-295-91	SHORT	0		
		< LIQUID CRYSTAL DISPLAY >			
LCD501	1-804-693-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< DIODE >			
LED549	6-500-083-01	DIODE NSPW315BSRS (LCD BACK LIGHT)			
LED550	6-500-083-01	DIODE NSPW315BSRS (LCD BACK LIGHT)			
		< RESISTOR >			
R501	1-219-286-11	RES-CHIP	680	2% 1/16W	
R502	1-219-286-11	RES-CHIP	680	2% 1/16W	
R503	1-219-286-11	RES-CHIP	680	2% 1/16W	
R504	1-218-847-11	RES-CHIP	1K	2% 1/16W	
R505	1-218-851-11	RES-CHIP	1.5K	2% 1/16W	

DISPLAY **LIMIT SW** **MAIN**

Ref. No.	Part No.	Description			Remarks
R506	1-218-851-11	RES-CHIP	1.5K	2%	1/16W
R507	1-218-855-11	RES-CHIP	2.2K	2%	1/16W
R508	1-218-859-11	RES-CHIP	3.3K	2%	1/16W
R509	1-218-863-11	RES-CHIP	4.7K	2%	1/16W
R510	1-218-867-11	RES-CHIP	6.8K	2%	1/16W
R511	1-219-286-11	RES-CHIP	680	2%	1/16W
R512	1-219-286-11	RES-CHIP	680	2%	1/16W
R513	1-219-286-11	RES-CHIP	680	2%	1/16W
R514	1-218-847-11	RES-CHIP	1K	2%	1/16W
R515	1-218-851-11	RES-CHIP	1.5K	2%	1/16W
R516	1-218-851-11	RES-CHIP	1.5K	2%	1/16W
R517	1-218-855-11	RES-CHIP	2.2K	2%	1/16W
R518	1-218-859-11	RES-CHIP	3.3K	2%	1/16W
R519	1-218-863-11	RES-CHIP	4.7K	2%	1/16W
R520	1-218-867-11	RES-CHIP	6.8K	2%	1/16W
R521	1-218-867-11	RES-CHIP	6.8K	2%	1/16W
R522	1-216-821-11	METAL CHIP	1K	5%	1/16W
R523	1-216-821-11	METAL CHIP	1K	5%	1/16W
R524	1-216-821-11	METAL CHIP	1K	5%	1/16W
R525	1-216-821-11	METAL CHIP	1K	5%	1/16W
R551	1-216-821-11	METAL CHIP	1K	5%	1/16W
R552	1-216-819-11	METAL CHIP	680	5%	1/16W
R553	1-216-813-11	METAL CHIP	220	5%	1/16W
R554	1-216-857-11	METAL CHIP	1M	5%	1/16W
R555	1-216-850-11	METAL CHIP	270K	5%	1/16W
R556	1-216-821-11	METAL CHIP	1K	5%	1/16W
R557	1-216-821-11	METAL CHIP	1K	5%	1/16W
R558	1-216-821-11	METAL CHIP	1K	5%	1/16W
R559	1-220-373-11	RES-CHIP	620	5%	1/10W
R560	1-220-373-11	RES-CHIP	620	5%	1/10W
R561	1-216-822-11	METAL CHIP	1.2K	5%	1/16W (US)
R561	1-216-819-11	METAL CHIP	680	5%	1/16W (AEP, E)
R562	1-216-822-11	METAL CHIP	1.2K	5%	1/16W (US)
R562	1-216-819-11	METAL CHIP	680	5%	1/16W (AEP, E)
R563	1-216-819-11	METAL CHIP	680	5%	1/16W
R564	1-216-819-11	METAL CHIP	680	5%	1/16W
R565	1-216-819-11	METAL CHIP	680	5%	1/16W
R566	1-216-819-11	METAL CHIP	680	5%	1/16W
R567	1-216-819-11	METAL CHIP	680	5%	1/16W
R568	1-216-819-11	METAL CHIP	680	5%	1/16W
R569	1-216-819-11	METAL CHIP	680	5%	1/16W
R570	1-216-819-11	METAL CHIP	680	5%	1/16W
R571	1-216-819-11	METAL CHIP	680	5%	1/16W
R572	1-216-819-11	METAL CHIP	680	5%	1/16W
R573	1-216-822-11	METAL CHIP	1.2K	5%	1/16W (US)
R573	1-216-819-11	METAL CHIP	680	5%	1/16W (AEP, E)
R574	1-216-822-11	METAL CHIP	1.2K	5%	1/16W (US)
R574	1-216-819-11	METAL CHIP	680	5%	1/16W (AEP, E)
R575	1-216-819-11	METAL CHIP	680	5%	1/16W
R576	1-216-819-11	METAL CHIP	680	5%	1/16W
R577	1-216-819-11	METAL CHIP	680	5%	1/16W
R578	1-216-819-11	METAL CHIP	680	5%	1/16W
R579	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R580	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
		< SWITCH >			
S501	1-572-704-31	SWITCH, KEY BOARD (⏏)			
S502	1-572-704-31	SWITCH, KEY BOARD (OFF)			
S503	1-572-704-31	SWITCH, KEY BOARD (SOURCE)			
S504	1-572-704-31	SWITCH, KEY BOARD (MODE)			
S505	1-572-704-31	SWITCH, KEY BOARD (SEL)			
S506	1-771-290-11	SWITCH, SLIDE (VOL)			
S507	1-572-704-31	SWITCH, KEY BOARD (DSPL)			
S508	1-572-704-31	SWITCH, KEY BOARD (AF) (AEP, E)			
S509	1-572-704-31	SWITCH, KEY BOARD (ATT)			
S510	1-572-704-31	SWITCH, KEY BOARD (MBP)			
S511	1-572-704-31	SWITCH, KEY BOARD (LIST/PTY)			
S512	1-572-704-31	SWITCH, KEY BOARD (D-BASS)			
S513	1-771-290-11	SWITCH, SLIDE (SEEK)			
S514	1-572-704-31	SWITCH, KEY BOARD (TA) (AEP, E)			
S515	1-572-704-31	SWITCH, KEY BOARD (SENS/BTM)			
S516	1-572-704-31	SWITCH, KEY BOARD (6/ALBUM+)			
S517	1-572-704-31	SWITCH, KEY BOARD (5/ALBUM-)			
S518	1-572-704-31	SWITCH, KEY BOARD (4/SHUFF)			
S519	1-572-704-31	SWITCH, KEY BOARD (3/REP)			
S520	1-572-704-31	SWITCH, KEY BOARD (2/DIDC+)			
S521	1-572-704-31	SWITCH, KEY BOARD (1/DISC-)			
**********					
	A-3274-254-A	LIMIT SW BOARD, COMPLETE			
		**********			
		< CONNECTOR >			
CN13	1-816-275-21	CONNECTOR, FFC/FPC 6P			
		< SWITCH >			
L SW4	1-529-565-41	SWITCH, PUSH (1 KEY) (LIMIT)			
**********					
	A-3274-236-A	MAIN BOARD, COMPLETE (US)			
	A-3274-243-A	MAIN BOARD, COMPLETE (AEP, E)			
		**********			
		(INCLUDING SPEAKER BOARD)			
*	3-019-565-01	BRACKET (IC)			
	3-041-261-11	BRACKET (TR)			
	3-236-932-01	HEAT SINK (6 PIN)			
	7-685-793-09	SCREW +PTT 2.6X8 (S)			
	7-685-795-09	SCREW +PTT 2.6X12 (S)			
		< CAPACITOR >			
C401	1-124-233-11	ELECT	10uF	20.00%	16V
C402	1-124-233-11	ELECT	10uF	20.00%	16V
C403	1-124-233-11	ELECT	10uF	20.00%	16V
C404	1-124-233-11	ELECT	10uF	20.00%	16V
C405	1-115-156-11	CERAMIC CHIP	1uF		10V

Ref. No.	Part No.	Description			Remarks
C406	1-115-156-11	CERAMIC CHIP	1uF		10V
C407	1-115-156-11	CERAMIC CHIP	1uF		10V
C408	1-115-156-11	CERAMIC CHIP	1uF		10V
C409	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C411	1-124-234-61	ELECT	22uF	20%	25V
C412	1-124-233-11	ELECT	10uF	20.00%	16V
C415	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C416	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C417	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C418	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C419	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C420	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C421	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C601	1-162-918-11	CERAMIC CHIP	18PF	5.00%	50V
C602	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C603	1-124-584-00	ELECT	100uF	20%	10V
C604	1-125-873-91	CERAMIC CHIP	1uF	10.00%	16V
C607	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C608	1-124-584-00	ELECT	100uF	20%	10V
C609	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C610	1-165-176-11	CERAMIC CHIP	0.047uF	10.00%	16V
C611	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C612	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C613	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C614	1-124-244-61	ELECT	47uF	20%	6.3V (AEP,E)
C615	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP, E)
C616	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V (AEP, E)
C617	1-162-924-11	CERAMIC CHIP	56PF	5.00%	50V (AEP, E)
C618	1-162-924-11	CERAMIC CHIP	56PF	5.00%	50V (AEP, E)
C619	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V (AEP, E)
C620	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V (AEP, E)
C621	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V (AEP, E)
C622	1-162-959-11	CERAMIC CHIP	330PF	5%	50V (AEP, E)
C623	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C624	1-164-739-11	CERAMIC CHIP	560PF	5.00%	50V (AEP, E)
C625	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V (AEP, E)
C626	1-164-156-11	CERAMIC CHIP	0.1uF		25V (AEP, E)
C627	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP, E)
C628	1-107-826-91	CERAMIC CHIP	0.001uF	10%	50V (AEP, E)
C630	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP, E)
C631	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V (AEP, E)
C632	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V (AEP, E)
C633	1-125-891-11	CERAMIC CHIP	0.47uF	10.00%	10V (AEP, E)
C634	1-165-176-11	CERAMIC CHIP	0.047uF	10.00%	16V (AEP, E)
C635	1-107-826-91	CERAMIC CHIP	0.1uF		(AEP, E)
C701	1-124-584-00	ELECT	100uF	20%	10V
C702	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C703	1-125-891-11	CERAMIC CHIP	0.47uF	10.00%	10V
C704	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C705	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C706	1-124-233-11	ELECT	10uF	20.00%	16V
C707	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C708	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C709	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C710	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C712	1-124-584-00	ELECT	100uF	20%	10V
C713	1-124-584-00	ELECT	100uF		10V
C714	1-124-584-00	ELECT	100uF		10V
C715	1-128-057-61	ELECT	30uF	20%	6.3V
C716	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C803	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C804	1-124-119-00	ELECT	330uF	20%	16V
C805	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C806	1-128-647-11	DOUBLE LAYER	0.1F		5.5V
C807	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C808	1-162-918-11	CERAMIC CHIP	18PF	5.00%	50V
C809	1-164-160-11	CERAMIC CHIP	20PF	5.00%	50V
C810	1-165-178-91	CERAMIC CHIP	0.047uF		(US)
C811	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C812	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C815	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C901	1-135-473-21	ELECT	3300uF	20%	16V
C902	1-115-156-11	CERAMIC CHIP	1uF	10%	50V
C905	1-115-156-11	CERAMIC CHIP	1uF	10%	50V
C906	1-162-968-91	CERAMIC CHIP	0.0022uF		
C907	1-125-972-61	ELECT	100uF	20.00%	16V
C908	1-115-156-11	CERAMIC CHIP	1uF		10V
C909	1-126-160-11	ELECT	1uF	20%	50V
C910	1-126-557-91	ELECT	47uF		6.3V
C912	1-128-057-11	ELECT	330uF	20.00%	6.3V
C916	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C917	1-124-584-00	ELECT	100uF	20%	10V
C918	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
		< CONNECTOR/JACK >			
CNJ801	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)			
CNP701	1-815-260-11	CONNECTOR, BOAR TO BOARD 30P			
CNP801	1-764-270-21	JACK,STEREO MINIATURE(DIA.3.5)			(REMOTE IN)
CNP802	1-794-311-21	PLUG, CONNECTOR 12P			
CNP901	1-774-701-11	PIN, CONNECTOR 16P			

MAIN

Ref. No.	Part No.	Description	Remarks
		< DIODE >	
D601	8-719-987-69	DIODE DAN217-T146 (AEP, E)	
D602	8-719-069-54	DIODE UDZSTE-175.1B (AEP, E)	
D701	8-719-991-33	DIODE 1SS133T-77	
D801	8-719-110-49	DIODE MTZJ-T-77-18A	
D802	8-719-069-56	DIODE UDZSTE-176.2B	
D804	8-719-058-24	DIODE RB501V-40TE-17	
D805	8-719-056-93	DIODE UDZ-TE-17-18B	
D806	8-719-056-93	DIODE UDZ-TE-17-18B	
D807	8-719-991-33	DIODE 1SS133T-77	
D808	8-719-988-61	DIODE 1SS355TE-17	
D809	8-719-988-61	DIODE 1SS355TE-17	
D810	8-719-988-61	DIODE 1SS355TE-17	
D811	8-719-109-97	DIODE MTZJ-T-77-6.8B	
D812	8-719-109-97	DIODE MTZJ-T-77-6.8B	
D813	8-719-109-97	DIODE MTZJ-T-77-6.8B	
D814	8-719-109-97	DIODE MTZJ-T-77-6.8B	
D815	8-719-109-97	DIODE MTZJ-T-77-6.8B	
D816	8-719-109-97	DIODE MTZJ-T-77-6.8B	
D817	8-719-109-97	DIODE MTZJ-T-77-6.8B	
D818	8-719-991-33	DIODE 1SS133T-77	
D819	8-719-988-61	DIODE 1SS355TE-17	
D901	8-719-200-82	DIODE 11ES2-TA1B	
D902	8-719-200-82	DIODE 11ES2-TA1B	
D903	8-719-200-82	DIODE 11ES2-TA1B	
D904	8-719-200-82	DIODE 11ES2-TA1B	
D905	8-719-200-82	DIODE 11ES2-TA1B	
D906	8-719-053-18	DIODE 1SR154-400TE-25	
D907	8-719-053-18	DIODE 1SR154-400TE-25	
D908	8-719-200-82	DIODE 11ES2-TA1B	
D909	8-719-049-38	DIODE 1N5404TU	
D910	8-719-200-82	DIODE 11ES2-TA1B	
D911	8-719-200-82	DIODE 11ES2-TA1B	
D912	8-719-978-33	DIODE UDZSTE-176.8B	
D915	8-719-200-82	DIODE 11ES2-TA1B	
D916	8-719-069-55	DIODE UDZSTE-5.6B	
D917	8-719-110-14	DIODE MTZJ-T-77-9.1C	
D918	8-719-988-61	DIODE 1SS355TE-17	
D919	8-719-109-89	DIODE MTZJ-T-77-5.6B	
D921	8-719-988-61	DIODE 1SS355TE-17	
D922	1-216-864-91	METAL CHIP 0	1/16W
D925	8-719-978-33	DIODE UDZSTE-176.8B	
D926	8-719-921-63	DIODE MTZJ-T-77-7.5B (US)	
D927	8-719-069-91	DIODE UDZSTE-5.6B	
		< FERRITE BEAD >	
FB801	1-414-235-22	FERRITE BEAD	
		< IC >	
IC401	8-759-827-14	IC TA8268AH	
IC402	8-759-653-27	IC TDA7402TR	
IC601	8-759-492-59	IC SAA6588T/V2-118 (AEP, E)	
IC602	8-759-909-71	IC BA4558F-E2 (AEP, E)	
IC701	8-759-679-05	IC TC7WH34FU(TE12R)	
IC801	6-801-214-01	IC MN101C49KCZ (US)	
IC801	6-801-213-01	IC MN101C49KCK (AEP, E)	
IC802	6-701-405-01	IC PST3443UL	
IC803	8-759-096-16	IC MM1175XFF	
IC902	8-759-493-53	IC S-81233SGUP-DQF-T1	

Ref. No.	Part No.	Description			Remarks
		< CONDUCTOR >			
JR401	1-612-970-91	CERAMIC CHIP	0.01uF	10%	25V (AEP, E)
JR601	1-216-864-91	METAL CHIP	0		(AEP, E)
JR702	1-216-864-11	METAL CHIP	0	5%	1/16W
JR705	1-216-864-91	METAL CHIP	0		
JR801	1-216-845-11	METAL CHIP	100K	5%	1/16W (US)
JR802	1-216-864-11	METAL CHIP	0	5%	1/16W
JR804	1-216-864-91	METAL CHIP	0		
JR903	1-216-864-91	METAL CHIP	0		
		< COIL >			
L701	1-216-864-91	METAL CHIP	0		
L702	1-414-398-11	INDUCTOR	10uH		
L703	1-469-144-21		0uH	Bead	
L900	1-419-476-31	INDUCTOR	250uH		
		< JACK >			
PJ401	1-774-700-11	JACK, PIN 6P (BUS AUDIO IN, AUDIO OUT)			
PJ601	1-793-598-11	JACK (ANT)			
		< TRANSISTOR >			
Q401	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q402	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q403	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q404	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
Q601	8-729-901-81	TRANSISTOR	2SC2412K (AEP, E)		
Q602	8-729-055-96	TRANSISTOR	SRC1203SF (AEP, E)		
Q801	8-729-055-96	TRANSISTOR	SRC1203SF		
Q802	8-729-055-92	TRANSISTOR	SRA2203SF		
Q803	8-729-055-92	TRANSISTOR	SRA2203SF		
Q804	8-729-055-96	TRANSISTOR	SRC1203SF		
Q805	8-729-055-96	TRANSISTOR	SRC1203SF		
Q806	8-729-055-92	TRANSISTOR	SRA2203SF		
Q901	8-729-049-40	TRANSISTOR	2SC5343SFG		
Q902	8-729-049-40	TRANSISTOR	2SC5343SFG		
Q903	8-729-015-11	TRANSISTOR	2SD1802FAST-TL		
Q904	8-729-055-92	TRANSISTOR	SRA2203SF		
Q905	8-729-055-96	TRANSISTOR	SRC1203SF		
Q906	8-729-019-00	TRANSISTOR	KTC2026		
Q907	8-729-055-92	TRANSISTOR	SRA2203SF		
Q908	8-729-055-96	TRANSISTOR	SRC1203SF		
Q909	8-729-049-43	TRANSISTOR	STB1132Y		
Q910	8-729-055-96	TRANSISTOR	SRC1203SF		
Q911	8-729-049-40	TRANSISTOR	2SC5343SFG		
Q912	8-729-019-00	TRANSISTOR	2SD2394-G		
Q913	8-729-055-92	TRANSISTOR	SRA2203SF		
Q914	8-729-055-96	TRANSISTOR	SRC1203SF		
Q915	8-729-055-96	TRANSISTOR	SRC1203SF		
Q916	8-729-920-85	TRANSISTOR	STD1664		
Q917	8-729-055-96	TRANSISTOR	SRC1203SF		
Q918	8-729-049-43	TRANSISTOR	STB1132Y		
Q919	8-729-055-96	TRANSISTOR	SRC1203SF		
Q920	8-729-820-46	TRANSISTOR	2SB1202FAST-TL		
Q921	8-729-055-96	TRANSISTOR	SRC1203SF		
Q922	8-729-049-43	TRANSISTOR	STB1132Y		

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R401	1-216-813-11	METAL CHIP	220	5%	1/16W
R402	1-216-813-11	METAL CHIP	220	5%	1/16W
R403	1-216-813-11	METAL CHIP	220	5%	1/16W
R404	1-216-813-11	METAL CHIP	220	5%	1/16W
R406	1-216-841-11	METAL CHIP	47K	5%	1/16W
R407	1-216-864-11	METAL CHIP	0	5%	1/16W
R408	1-216-841-11	METAL CHIP	47K	5%	1/16W
R409	1-216-864-11	METAL CHIP	0	5%	1/16W
R410	1-216-841-11	METAL CHIP	47K	5%	1/16W
R412	1-216-841-11	METAL CHIP	47K	5%	1/16W
R413	1-216-821-11	METAL CHIP	1K	5%	1/16W
R414	1-216-833-11	METAL CHIP	10K	5%	1/16W
R415	1-216-821-11	METAL CHIP	1K	5%	1/16W
R416	1-216-833-11	METAL CHIP	10K	5%	1/16W
R417	1-216-841-11	METAL CHIP	47K	5%	1/16W
R418	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R419	1-216-821-11	METAL CHIP	1K	5%	1/16W
R420	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R601	1-216-864-11	METAL CHIP	0	5%	1/16W
R602	1-216-809-11	METAL CHIP	100	5%	1/16W
R603	1-216-809-11	METAL CHIP	100	5%	1/16W
R604	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R605	1-216-845-11	METAL CHIP	100K	5%	1/16W
R606	1-216-841-11	METAL CHIP	47K	5%	1/16W
R607	1-216-817-11	METAL CHIP	470	5%	1/16W (AEP, E)
R608	1-216-797-11	METAL CHIP	10	5%	1/16W (AEP, E)
R609	1-216-823-11	METAL CHIP	1.5K	5%	1/16W (AEP, E)
R610	1-216-821-11	METAL CHIP	1K	5%	1/16W (AEP, E)
R611	1-216-853-11	METAL CHIP	470K	5%	1/16W (AEP, E)
R612	1-216-797-11	METAL CHIP	10	5%	1/16W (AEP, E)
R613	1-216-825-11	METAL CHIP	2.2K	5%	1/16W (AEP, E)
R616	1-216-825-11	METAL CHIP	2.2K	5%	1/16W (AEP, E)
R617	1-216-833-11	METAL CHIP	10K	5%	1/16W (AEP, E)
R618	1-216-809-11	METAL CHIP	100	5%	1/16W (AEP, E)
R619	1-216-845-11	METAL CHIP	100K	5%	1/16W (AEP, E)
R620	1-216-809-11	METAL CHIP	100	5%	1/16W (AEP, E)
R621	1-216-857-11	METAL CHIP	1M	5%	1/16W (AEP, E)
R623	1-216-833-11	METAL CHIP	10K	5%	1/16W (AEP, E)
R701	1-216-841-11	METAL CHIP	47K	5%	1/16W
R702	1-216-845-11	METAL CHIP	100K	5%	1/16W
R703	1-216-864-11	METAL CHIP	0	5%	1/16W
R704	1-216-864-11	METAL CHIP	0	5%	1/16W
R705	1-216-864-11	METAL CHIP	0	5%	1/16W
R706	1-216-864-11	CARBON	0	5%	1/4W
R707	1-216-864-11	METAL CHIP	0	5%	1/16W
R708	1-216-864-11	METAL CHIP	0	5%	1/16W
R801	1-216-821-11	METAL CHIP	1K	5%	1/16W
R802	1-216-835-11	METAL CHIP	15K	5%	1/16W
R804	1-247-807-31	CARBON	100	5%	1/4W
R805	1-216-809-11	METAL CHIP	100	5%	1/16W
R806	1-469-144-21		0uH	BEAD	
R807	1-469-144-21		0uH	BEAD	
R808	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R809	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R810	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R811	1-216-845-11	METAL CHIP	100K	5%	1/16W
R812	1-216-841-11	METAL CHIP	47K	5%	1/16W
R813	1-216-821-91	METAL CHIP	1K	5%	1/16W
R814	1-216-821-91	METAL CHIP	1K	5%	1/16W
R815	1-216-821-91	METAL CHIP	1K	5%	1/16W
R816	1-216-813-11	METAL CHIP	220	5%	1/16W
R817	1-216-809-11	METAL CHIP	100	5%	1/16W
R818	1-216-809-11	METAL CHIP	100	5%	1/16W
R819	1-216-837-11	METAL CHIP	22K	5%	1/16W
R820	1-216-809-11	METAL CHIP	100	5%	1/16W
R821	1-216-809-11	METAL CHIP	100	5%	1/16W
R822	1-216-809-11	METAL CHIP	100	5%	1/16W
R823	1-216-833-11	METAL CHIP	10K	5%	1/16W
R824	1-216-833-11	METAL CHIP	10K	5%	1/16W
R825	1-216-821-11	METAL CHIP	1K	5%	1/16W
R827	1-216-845-11	METAL CHIP	100K	5%	1/16W
R828	1-216-849-11	METAL CHIP	220K	5%	1/16W
R829	1-216-809-11	METAL CHIP	100	5%	1/16W
R830	1-216-809-11	METAL CHIP	100	5%	1/16W
R832	1-216-845-11	METAL CHIP	100K	5%	1/16W
R835	1-216-845-11	METAL CHIP	100K	5%	1/16W
R836	1-216-864-91	METAL CHIP	0	5%	1/16W
R843	1-216-845-11	METAL CHIP	100K	5%	1/16W
R864	1-216-845-11	METAL CHIP	100K	5%	1/16W (US)
R866	1-216-845-11	METAL CHIP	100K	5%	1/16W
R867	1-216-845-11	METAL CHIP	100K	5%	1/16W
R869	1-216-845-11	METAL CHIP	100K	5%	1/16W
R901	1-216-821-11	METAL CHIP	1K	5%	1/16W
R903	1-249-425-11	CARBON	4.7K	5%	1/4W F
R904	1-216-821-11	METAL CHIP	1K	5%	1/16W
R905	1-216-841-11	METAL CHIP	47K	5%	1/16W
R906	1-216-833-11	METAL CHIP	10K	5%	1/16W
R907	1-216-833-11	METAL CHIP	10K	5%	1/16W
R908	1-216-841-11	METAL CHIP	47K	5%	1/16W
R909	1-216-841-11	METAL CHIP	47K	5%	1/16W
R910	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R911	1-216-845-11	METAL CHIP	100K	5%	1/16W
R913	1-249-427-11	CARBON	6.8K	5%	1/4W F
R914	1-216-845-11	METAL CHIP	100K	5%	1/16W
R915	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R916	1-249-404-00	CARBON	82	5%	1/4W F
R917	1-249-404-00	CARBON	82	5%	1/4W F
R918	1-249-404-00	CARBON	82	5%	1/4W F
R919	1-249-404-00	CARBON	82	5%	1/4W F
R920	1-249-404-00	CARBON	82	5%	1/4W F

MAIN **SERVO**

Ref. No.	Part No.	Description			Remarks
R921	1-249-404-00	CARBON	82	5%	1/4W F
R922	1-247-816-11	CARBON	240	5%	1/4W
R923	1-216-845-11	METAL CHIP	100K	5%	1/16W
R924	1-249-421-11	CARBON	2.2K	5%	1/4W F
R925	1-216-821-11	METAL CHIP	1K	5%	1/16W
R926	1-249-413-11	CARBON	470	5%	1/4W F
R927	1-249-417-11	CARBON	1K	5%	1/4W F
R930	1-216-845-11	METAL CHIP	100K	5%	1/16W
R931	1-249-421-11	CARBON	2.2K	5%	1/4W F
R932	1-216-805-11	METAL CHIP	47	5%	1/16W
R933	1-216-829-90	METAL CHIP	4.7K	5%	1/16W
R934	1-216-845-11	METAL CHIP	100K	5%	1/16W
R935	1-249-421-11	CARBON	2.2K	5%	1/4W F
		< SWITCH >			
S801	1-762-638-21	SWITCH, TACTILE (RESET)			
		< THERMISTOR >			
TH900	1-801-792-21	THERMISTOR, POSITIVE			
TH901	1-810-940-11	THERMISTOR, POSITIVE			
		< TUNER >			
TU601	A-3282-062-A	TUX-020//Q2A			
		< VIBRATOR >			
X601	1-760-556-31	VIBRATOR, CRYSTAL (4.332MHz) (AEP, E)			
X801	1-781-822-21	VIBRATOR, CERAMIC (18.43MHz)			
X802	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
**********					
	A-3274-250-A	SERVO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C4	1-104-609-11	ELECT CHIP	100uF	20.00%	4V
C5	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C6	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C8	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C9	1-162-924-11	CERAMIC CHIP	56PF	5.00%	50V
C10	1-162-924-11	CERAMIC CHIP	56PF	5.00%	50V
C11	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C13	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C14	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C15	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C16	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C17	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C18	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C19	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C20	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C21	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C22	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C23	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

Ref. No.	Part No.	Description			Remarks
C24	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C25	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C27	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C29	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C30	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C34	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C35	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C36	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C38	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C40	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C41	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C43	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C44	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C45	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C51	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C53	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C54	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C55	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C56	1-128-934-91	CERAMIC CHIP	0.33uF	20%	10V
C57	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C58	1-162-966-91	CERAMIC CHIP	0.0022uF	5.00%	50V
C59	1-126-391-11	ELECT CHIP	47uF	20.00%	6.3V
C60	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C61	1-126-391-11	ELECT CHIP	47uF	20.00%	6.3V
C62	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C63	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C65	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C66	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C67	1-104-851-11	TANTAL. CHIP	10uF	20.00%	10V
C68	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C69	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C70	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C75	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C77	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C78	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C79	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C102	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C111	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C112	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C113	1-107-726-91		0.01uF	10%	16V
C114	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C115	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
		< CONNECTOR >			
CN1	1-815-352-11	CONNECTOR, BOARD TO BOARD 30P			
CN2	1-794-153-21	CONNECTOR, FPC (ZIF)16P			
CN3	1-816-275-21	CONNECTOR, FFC/FPC 6P			
		< CONDUCTOR >			
FB2	1-216-864-11	METAL CHIP	0	5%	1/16W
FB5	1-469-144-21	FERRITE BEAD			
FB6	1-469-144-21	FERRITE BEAD			

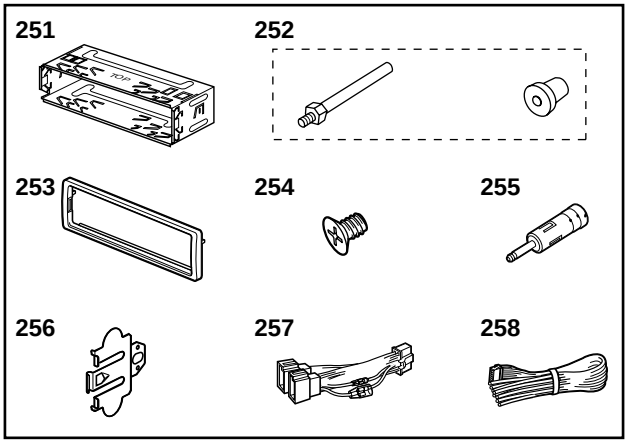
Ref. No.	Part No.	Description			Remarks
		< IC >			
IC1	8-759-699-98	IC uPD63711GC-8EU			
IC2	8-759-658-87	IC BA5810FP-E2			
IC3	6-801-956-01	IC HD6432238RWN23TEI			
IC4	6-700-296-01	IC W24L010AT-12-EL15			
IC5	6-702-153-01	IC CXD9684R-005			
IC6	8-759-645-31	IC RN5RZ25BA-TL			
IC7	8-759-491-50	IC TC74VHCT244AFT			
IC12	8-759-196-96	IC TC7SH08FU-TE85R			
		< CONDUCTOR/RESISTOR >			
JR1	1-216-821-11	METAL CHIP	1K	5%	1/16W
JR3	1-216-864-11	METAL CHIP	0	5%	1/16W
JR5	1-216-821-11	METAL CHIP	1K	5%	1/16W
JR6	1-216-864-11	METAL CHIP	0	5%	1/16W
JR12	1-216-864-11	METAL CHIP	0	5%	1/16W
JR13	1-216-864-11	METAL CHIP	0	5%	1/16W
JR14	1-216-864-11	METAL CHIP	0	5%	1/16W
JR15	1-216-864-11	METAL CHIP	0	5%	1/16W
JR17	1-216-864-11	METAL CHIP	0	5%	1/16W
		< COIL/RESISTOR >			
L4	1-216-001-00	METAL CHIP	10	5%	1/10W
L6	1-216-001-00	METAL CHIP	10	5%	1/10W
L8	1-414-398-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q1	8-729-904-87	TRANSISTOR	2SB1197K-T-146-R		
		< RESISTOR >			
R3	1-216-806-11	RES-CHIP	56	5%	1/10W
R5	1-218-344-11	RES-CHIP	7.5K	5%	1/10W
R7	1-216-839-11	METAL CHIP	33K	5%	1/16W
R8	1-216-833-11	METAL CHIP	10K	5%	1/16W
R9	1-216-840-11	METAL CHIP	39K	5%	1/16W
R10	1-216-835-11	METAL CHIP	15K	5%	1/16W
R12	1-216-837-11	METAL CHIP	22K	5%	1/16W
R13	1-216-807-11	METAL CHIP	68	5%	1/16W
R14	1-216-841-11	METAL CHIP	47K	5%	1/16W
R15	1-216-841-11	METAL CHIP	47K	5%	1/16W
R26	1-216-806-11	RES-CHIP	56	5%	1/10W
R29	1-216-833-11	METAL CHIP	10K	5%	1/16W
R30	1-216-833-11	METAL CHIP	10K	5%	1/16W
R45	1-216-845-11	METAL CHIP	100K	5%	1/16W
R46	1-216-845-11	METAL CHIP	100K	5%	1/16W
R47	1-216-845-11	METAL CHIP	100K	5%	1/16W
R48	1-216-845-11	METAL CHIP	100K	5%	1/16W
R49	1-216-845-11	METAL CHIP	100K	5%	1/16W
R50	1-216-809-11	METAL CHIP	100	5%	1/16W
R51	1-216-809-11	METAL CHIP	100	5%	1/16W
R52	1-216-809-11	METAL CHIP	100	5%	1/16W
R53	1-216-809-11	METAL CHIP	100	5%	1/16W
R54	1-216-809-11	METAL CHIP	100	5%	1/16W
R55	1-216-809-11	METAL CHIP	100	5%	1/16W
R64	1-216-809-11	METAL CHIP	100	5%	1/16W

Ref. No.	Part No.	Description			Remarks
R65	1-216-819-91	METAL CHIP	680	5%	1/16W
R67	1-216-845-11	METAL CHIP	100K	5%	1/16W
R68	1-216-857-11	METAL CHIP	1M	5%	1/16W
R69	1-216-813-11	METAL CHIP	220	5%	1/16W
R70	1-216-813-11	METAL CHIP	220	5%	1/16W
R71	1-216-809-11	METAL CHIP	100	5%	1/16W
R72	1-216-809-11	METAL CHIP	100	5%	1/16W
R73	1-216-809-11	METAL CHIP	100	5%	1/16W
R74	1-216-809-11	METAL CHIP	100	5%	1/16W
R75	1-216-809-11	METAL CHIP	100	5%	1/16W
R76	1-216-809-11	METAL CHIP	100	5%	1/16W
R77	1-216-809-11	METAL CHIP	100	5%	1/16W
R78	1-216-809-11	METAL CHIP	100	5%	1/16W
R81	1-216-845-11	METAL CHIP	100K	5%	1/16W
R82	1-216-845-11	METAL CHIP	100K	5%	1/16W
R83	1-216-845-11	METAL CHIP	100K	5%	1/16W
R84	1-216-845-11	METAL CHIP	100K	5%	1/16W
R85	1-216-845-11	METAL CHIP	100K	5%	1/16W
R86	1-216-845-11	METAL CHIP	100K	5%	1/16W
R87	1-216-845-11	METAL CHIP	100K	5%	1/16W
R88	1-216-845-11	METAL CHIP	100K	5%	1/16W
R89	1-216-845-11	METAL CHIP	100K	5%	1/16W
R90	1-216-845-11	METAL CHIP	100K	5%	1/16W
R91	1-216-845-11	METAL CHIP	100K	5%	1/16W
R92	1-216-845-11	METAL CHIP	100K	5%	1/16W
R93	1-216-809-11	METAL CHIP	100	5%	1/16W
R94	1-216-809-11	METAL CHIP	100	5%	1/16W
R95	1-216-809-11	METAL CHIP	100	5%	1/16W
R96	1-216-809-11	METAL CHIP	100	5%	1/16W
R97	1-216-837-11	METAL CHIP	22K	5%	1/16W
R98	1-216-834-11	METAL CHIP	12K	5%	1/16W
R100	1-216-845-11	METAL CHIP	100K	5%	1/16W
R102	1-216-845-11	METAL CHIP	100K	5%	1/16W
R103	1-216-845-11	METAL CHIP	100K	5%	1/16W
R104	1-216-845-11	METAL CHIP	100K	5%	1/16W
R105	1-216-845-11	METAL CHIP	100K	5%	1/16W
R106	1-216-821-11	METAL CHIP	1K	5%	1/16W
R107	1-216-821-11	METAL CHIP	1K	5%	1/16W
R109	1-216-845-11	METAL CHIP	100K	5%	1/16W
R111	1-216-845-11	METAL CHIP	100K	5%	1/16W
R113	1-216-845-11	METAL CHIP	100K	5%	1/16W
R114	1-216-845-11	METAL CHIP	100K	5%	1/16W
R115	1-216-837-91	METAL CHIP	22K	5%	1/16W
R116	1-216-809-11	METAL CHIP	100	5%	1/16W
R117	1-216-809-11	METAL CHIP	100	5%	1/16W
R118	1-216-809-11	METAL CHIP	100	5%	1/16W
R119	1-216-821-11	METAL CHIP	1K	5%	1/16W
R121	1-216-845-11	METAL CHIP	100K	5%	1/16W
R124	1-216-837-91	METAL CHIP	22K	5%	1/16W
R126	1-216-845-11	METAL CHIP	100K	5%	1/16W
R127	1-216-845-11	METAL CHIP	100K	5%	1/16W
R128	1-216-845-11	METAL CHIP	100K	5%	1/16W
R129	1-216-845-11	METAL CHIP	100K	5%	1/16W
R130	1-216-809-11	METAL CHIP	100	5%	1/16W
R131	1-216-809-11	METAL CHIP	100	5%	1/16W
R132	1-216-809-11	METAL CHIP	100	5%	1/16W
R133	1-216-809-11	METAL CHIP	100	5%	1/16W
R134	1-216-809-11	METAL CHIP	100	5%	1/16W
R135	1-216-809-11	METAL CHIP	100	5%	1/16W
R136	1-216-809-11	METAL CHIP	100	5%	1/16W

SERVO **SPEAKER**

Ref. No.	Part No.	Description			Remarks
R142	1-216-809-11	METAL CHIP	100	5%	1/16W
R143	1-216-815-11	METAL CHIP	330	5%	1/16W
R144	1-216-809-11	METAL CHIP	100	5%	1/16W
R145	1-216-815-11	METAL CHIP	330	5%	1/16W
R146	1-216-809-11	METAL CHIP	100	5%	1/16W
R147	1-216-814-11	METAL CHIP	270	5%	1/16W
R148	1-216-809-11	METAL CHIP	100	5%	1/16W
R149	1-216-814-11	METAL CHIP	270	5%	1/16W
R150	1-216-813-11	METAL CHIP	220	5%	1/16W
R151	1-216-818-11	METAL CHIP	560	5%	1/16W
R152	1-216-813-11	METAL CHIP	220	5%	1/16W
R153	1-216-818-11	METAL CHIP	560	5%	1/16W
R154	1-216-809-11	METAL CHIP	100	5%	1/16W
		< COMPOSITION CIRCUIT BLOCK >			
RB1	1-233-576-11	RES, CHIP NETWORK 100			
RB2	1-233-576-11	RES, CHIP NETWORK 100			
		< VIBRATOR >			
X1	1-795-520-11	VIBRATOR, CERAMIC (16.9344MHz)			
X2	1-795-127-21	VIBRATOR, CERAMIC (12.288MHz)			
**********					
	1-684-815-11	SPEAKER BOARD			
		**********			
**********					
		MISCELLANEOUS			
		**********			
3	1-776-207-82	CORD (WITH CONNECTOR) (US)			
3	1-776-527-61	CORD (WITH CONNECTOR) (ISO) (AEP, E)			
117	1-676-707-11	PICK-UP FLEXIBLE BOARD			
207	1-823-951-11	FLEXIBLE FLAT CABLE 6P			
⚠210	8-820-103-03	OPTICAL PICK-UP KSS-720A/C-N			
F900	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A			
LCD501	1-804-693-11	DISPLAY PANEL, LIQUID CRYSTAL			
M902	A-3301-985-A	MOTOR ASSY, SLED			
M903	A-3315-039-A	MOTOR SUB ASSY, LO (LOADING)			
**********					

Ref. No.	Part No.	Description	Remarks
		ACCESSORIES	
		**********	
	1-476-526-32	REMOTE COMMANDER (RM-X115)	
	3-230-047-01	LID, BATTERY CASE (FOR RM-X115)	
	3-241-295-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, GERMAN, FRENCH, ITALIAN, DUTCH) (AEP)	
	3-241-295-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (US)	
	3-241-295-31	MANUAL, INSTRUCTION, INSTALL (ENGLISH, CHINIESE) (E)	
	3-241-296-11	MANUAL, INSTRUCTION (ENGLISH, GERMAN, FRENCH, ITALIAN, DUTCH) (AEP)	
	3-241-296-21	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (US)	
	3-241-296-31	MANUAL, INSTRUCTION (ENGLISH, CHINIESE) (E)	
**********			
		PARTS FOR INSTALLATION AND CONNECTION	
		**********	
251	3-014-370-22	FRAME, FITTING	
252	X-3366-405-1	SCREW ASSY (EXP), FITTING (AEP, E)	
253	3-236-923-01	COLLAR	
254	3-934-325-01	SCREW (+K 5X8 TP)	
255	1-465-459-21	ADAPTOR, ANTENNNA (AEP)	
256	3-030-929-01	SPRING, FITTING	
257	1-776-527-61	CORD (WITH CONNECTOR) (ISO) (AEP, E)	
258	1-776-207-82	CORD (WITH CONNECTOR) (US)	



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

MEMO

REVISION HISTORY

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

Ver.	Date	Description of Revision
1.0	2002.03	New