

XR-L500/L500V/L500X

SERVICE MANUAL

Ver 1.1 2001.05

AEP Model
UK Model



Photo: XR-L500

Model Name Using Similar Mechanism	XR-4300R
Tape Transport Mechanism Type	MG-25G-136

SPECIFICATIONS

Cassette Player section

Tape track	4-track 2-channel stereo
Wow and flutter	0.08 % (WRMS)
Frequency response	30 – 18,000 Hz
Signal-to-noise ratio	

Cassette type

TYPE II, IV	61 dB
TYPE I	58 dB

Tuner section

FM

Tuning range	87.5 – 108.0 MHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	66 dB (stereo), 72 dB (mono)

Harmonic distortion at 1 kHz	0.6 % (stereo), 0.3 % (mono)
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Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

MW/LW

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

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	50 W $\times$ 4 (at 4 ohms)

General

Outputs	Audio outputs (Rear) Power aerial relay control lead Power amplifier control lead Telephone ATT control lead Remote controller input connector
Inputs	Aerial input connector
Tone controls	Bass $\pm$ 8 dB at 100 Hz Treble $\pm$ 8 dB at 10 kHz
Loudness	100 Hz +8 dB 10 kHz +2 dB
Power requirements	12 V DC car battery (negative earth)
Dimensions	Approx. 178 $\times$ 50 $\times$ 176 mm (w/h/d)
Mounting dimensions	Approx. 182 $\times$ 53 $\times$ 161 mm (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/MW/LW CASSETTE CAR STEREO

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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.

Flexible Circuit Board Repairing

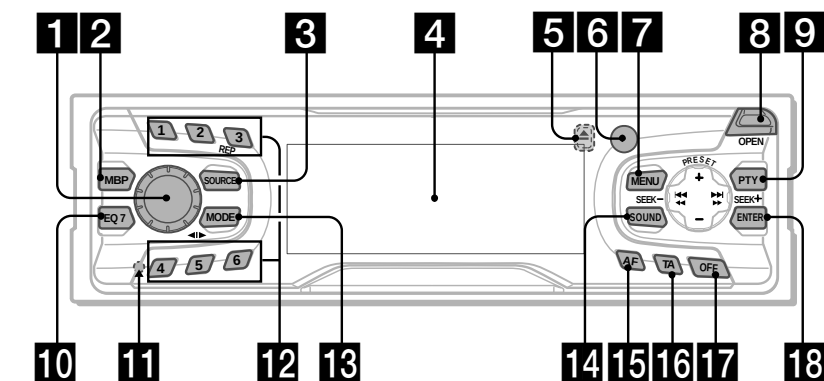
- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SECTION 1 GENERAL

Location of controls

Refer to the pages listed for details.

TAPE : During tape playback **RADIO** : During radio reception **MENU** : During menu mode



- 1** Volume control dial 13
- 2** MBP button 19
- 3** **SOURCE (Power on/Tape/Radio) button**
5, 9, 10, 11, 13, 19, 20, 22
- 4** Display window
- 5** **▲ (eject) button** (located on the front side of the unit, behind the front panel) 9
- 6** Receptor for the card remote commander
- 7** **MENU button** 8, 9, 10, 14, 15, 18, 19, 20, 22, 23, 24
- 8** **OPEN button** 7, 9
- 9** **PTY/DSPL button** 12, 15
- 10** **EQ7 button** 19
- 11** **RESET button** (located on the front side of the unit, behind the front panel) 7

- 12** Number buttons

TAPE	9
③ REP	9
RADIO	10, 11, 13, 14
CD/MD	
③ REP	21
⑥ SHUF	21
- 13** **MODE (◀▶) button**

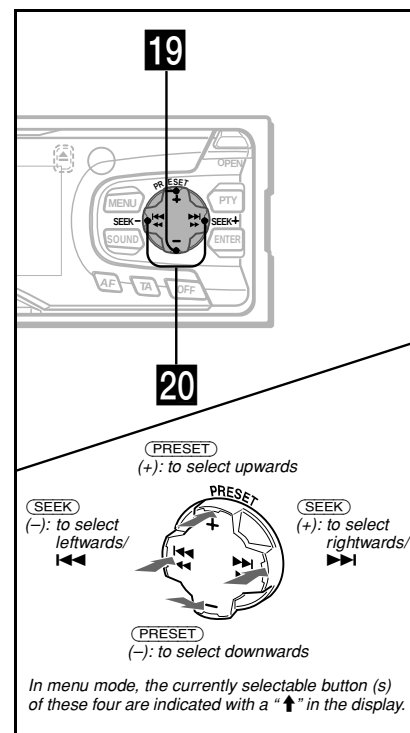
TAPE	9
RADIO	10, 11, 13
CD/MD	20, 22
- 14** **SOUND button** 17, 19
- 15** **AF button** 12, 14
- 16** **TA button** 13, 14
- 17** **OFF (Stop/Power off) button***1 5, 7, 9, 20
- 18** **ENTER button**

RADIO	11, 14
MENU	8, 9, 10, 15, 18, 19, 20, 22, 23, 24
CD/MD	22, 23

*1 **Warning when installing in a car without an ACC (accessory) position on the ignition switch**

After turning off the ignition, be sure to press **OFF** on the unit for 2 seconds to turn off the clock display.

Otherwise, the clock display does not turn off and this causes battery drain.



- 19** **PRESET buttons (+/-)**

RADIO	10, 11, 15
MENU	8, 9, 10, 14, 15, 18, 19, 20, 22, 23, 24
CD/MD	20, 22, 23
- 20** **SEEK buttons (-/+)**

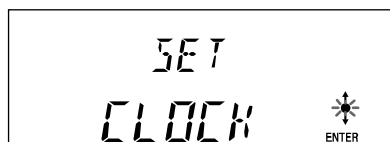
TAPE	9
RADIO	10, 11, 13
MENU	8, 9, 15, 17, 18, 19, 20, 24
CD/MD	20, 22, 23

Setting the clock

The clock uses a 24-hour digital indication.

Example: To set the clock to 10:08

- 1 Press **(MENU)**, then press either side of **(DISC/PRESET)** or **(PRESET)** repeatedly until “CLOCK” appears.



- 1 Press **(ENTER)**.
The hour indication flashes.
- 2 Press either side of **(DISC/PRESET)** or **(PRESET)** to set the hour.
- 3 Press the **(+)** side of **(SEEK)**.
The minute indication flashes.
- 4 Press either side of **(DISC/PRESET)** or **(PRESET)** to set the minute.

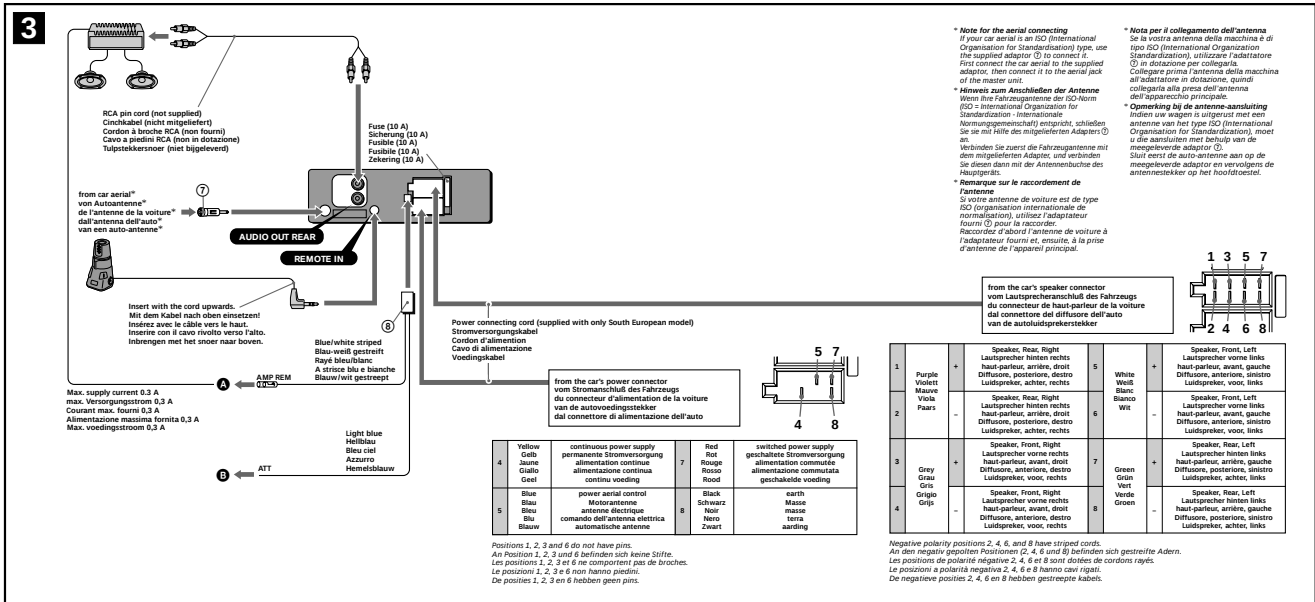
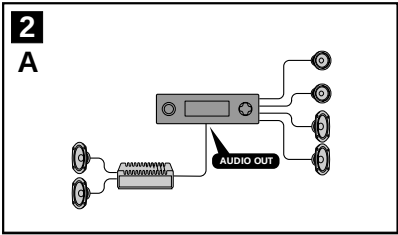
- 2 Press **(ENTER)**.



The clock starts. After the clock setting is completed, the display returns to normal play mode.

Tips

- You can set the clock automatically with the RDS feature (page 15).
- When D.INFO mode is set to ON, the time is always displayed (page 18).



XR-L500/L500V/L500X

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 (not supplied) to the unit and speaker before connecting it to the battery 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)

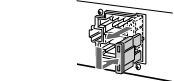
- When connecting this unit in combination with other stereo components, the connected car circuit's rating must be higher than the sum of each component's fuse.
- When no car circuits are rated high enough, connect the unit directly to the battery.

Power connection

Power connectors may vary depending on the car. Check your car's power connector diagram to make sure the connections match correctly. There are two basic types. You may need to switch the positions of the jump connector. Before connecting the unit to the car's power supply, be sure to match the position of the jump connector to the car's pin order. If the power connector of your car does not match the connector on the unit, use the connector (not supplied)! If you have any questions or problems connecting your unit that are not covered in this manual, please consult the car dealer.

WARNING
Shifting the fuse

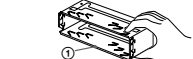
Check the pin position of the power connector of the car with the table on the below. If position 4 or 7 are reversed, remove the fuse and shift it to the lower position as shown in the illustration.



Parts list (1)

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

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



Connection example (2)

Notes (❶ A, B, C)

- 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 (❶ B, C)

For connecting two or more changers, the source selector XA-C30 (optional) is necessary.

Connection diagram (3)

- ❶ To AMP REMOTE IN of an optional power amplifier. This connection is only for amplifiers. Connecting any other system may damage the unit.
- ❷ To the interface cable of a car telephone.

Warning

If you have a power aerial without a relay box, connecting this unit with the power connecting cord (not supplied) 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 ATA (Automatic Tuner Activation), AF (Alternative Frequency) or the TA (Traffic Announcement) function.
- When your car has built-in FMM/MWLW 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 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.

Vorsicht

- Dieses Gerät ist ausschließlich für den Betrieb bei 12 V Gleichstrom (negativer Erdung) bestimmt.
- Achten Sie darauf, daß die Kabel nicht unter einer Schraube oder zwischen beweglichen Teilen wie z.B. in einer Sitzschiene eingeklemmt werden.
- Schließen Sie sorgfältig alle Anschlüsse vom/dem, die Zündung des Fahrzeugs aus, um Kurzschlüsse zu vermeiden.
- Verbinden Sie das Stromversorgungs-kabel (nicht mitgeliefert) mit dem Gerät und den Lautsprechern, bevor Sie es mit dem Halbleiterschaltkreis verbinden.
- **Schließen Sie alle Erdungskabel an einen gemeinsamen Massepunkt an.**
- Achten Sie, bevor Sie irgendwelche Anschlüsse vom/dem, die Zündung des Fahrzeugs aus, um Kurzschlüsse zu vermeiden.
- Verbinden Sie das Stromversorgungs-kabel (nicht mitgeliefert) mit dem Gerät und den Lautsprechern, bevor Sie es mit dem Halbleiterschaltkreis verbinden.
- **Schließen Sie alle Erdungskabel an einen gemeinsamen Massepunkt an.**
- Vorbeugen Sie Schäden durch Kurzschlüsse, indem Sie sicherstellen, dass alle Anschlüsse korrekt sind, bevor Sie das Gerät anschließen.

Hinweise zum Stromversorgungs-kabel (gelb)

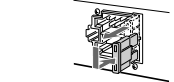
- Wenn Sie dieses Gerät zusammen mit anderen Stereokomponenten anschließen, muß der Autostromkreis, an den die Geräte angeschlossen sind, eine höhere Leistung aufweisen als die Summe der Sicherungen des einzelnen Komponenten.
- Wenn kein Autostromkreis eine so hohe Leistung aufweist, schließen Sie das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

Stromanschluß

Die Stromanschlässe verschiedener Fahrzeuge können sich voneinander unterscheiden. Überprüfen Sie anhand des Stromanschluß-Schaltplans des Fahrzeugs, ob die Anschlüsse übereinstimmen. Es gibt zwei Grundtypen. Sie müssen nicht zwischendurch die Positionen der Anschlüsse umschalten. Bevor Sie das Gerät an die Stromversorgung des Fahrzeugs anschließen, stellen Sie sicher, daß die Position des Überbrückungsschaltplans mit der Stellung des Fahrzeugs übereinstimmt. Wenn der Stromanschluß des Fahrzeugs nicht mit dem Anschluß am Gerät übereinstimmt, wenden Sie sich an Ihren Händler.

ACHTUNG
Verketten der Sicherung

Vergleichen Sie die Stützeinstellung des Stromanschlußes im Fahrzeug mit der folgenden Tabelle. Sind die Stützeinstellungen 4 und 7 umgekehrt, entfernen Sie die Sicherung und bringen sie, wie in der Abbildung gezeigt, statt dessen unten an.



Teilteile (1)

Die Nummern in der Liste sind dieselben wie im Erläuterungstext.

Sicherheitshinweise

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

Anschlußbeispiel (2)

- Schließen Sie unbedingt zuerst das Massekabel an, bevor Sie den Verstärker anschließen.
- Wenn Sie einen generatorisierten Endverstärker anschließen und den integrierten Verstärker nicht benutzen, wird die Signalfunktion deaktiviert.

Tip (❶ B, C)

Zum Anschließen von zwei oder mehr CD/MD-Wechslern wird der generatorisierte Signalfrequenzwähler XA-C30 benötigt.

Anschlußdiagramm (3)

- ❶ An AMP REMOTE IN des generatorisierten Endverstärkers. Dieser Anschluß ist ausschließlich für Verstärker gedacht. Schließen Sie nichts anderes daran. Andernfalls kann das Gerät beschädigt werden.
- ❷ An Schnittstellenkabel eines Autotelefons.

Warning

Wenn Sie eine Motorantenne ohne Relaiskabelchen verwenden, kann durch Anschließen dieses Geräts mit dem Stromversorgungs-kabel (nicht mitgeliefert) die Antenne beschädigt werden.

Hinweise zu den Steuerleitungen

- Die Motorantenne Steuerleitung (blau) liefert +12 V Gleichstrom, wenn Sie den Tuner einschalten oder die ATA (Automatische Tuner-Aktivierung), AF (Alternativer Frequenz) bzw. die TA-Funktion (Verkehrsinformationen) aktivieren.
- Wenn das Fahrzeug mit einer in der Heck-Zeitlenkenfensterscheibe integrierten FM (FMM/MWLW) Antenne ausgestattet ist, schließen Sie die Motorantenne Steuerleitung (blau) oder die Zuleitungsstromversorgungsleitung (rot) an den Stromversorgungsanschluß des vorhandenen Antennenverstärkers an. Näheres dazu erfahren Sie bei Ihrem Händler.
- Es kann nur eine Motorantenne mit Relaiskabelchen angeschlossen werden.

Stromversorgungs-kabel des Speichers

Wenn das gelbe Stromversorgungs-kabel angeschlossen ist, wird der Speicher stets (auch bei ausgeschalteter Zündung) mit Strom versorgt.

Hinweise zum Lautsprecheranschluß

- Schließen 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 Lautsprecheranschlüsse nicht mit dem Wagenchassis, und verbinden Sie auch nicht die Anschlüsse des rechten mit denen des linken Lautspeichers.
- 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.

Précautions

- Cet appareil est conçu pour fonctionner sur courant continu de 12 V avec masse négative.
- Évitez de fixer des vis sur les câbles ou de coincer ceux-ci dans des pièces mobiles (par exemple, amérateurs de sièges).
- Avant d'effectuer des raccordements, éteignez le moteur pour éviter les courts-circuits.
- Branchez le cordon d'alimentation (non fourni) sur l'appareil et les haut-parleurs avant de le brancher sur le connecteur d'alimentation existant.
- Rassemblez tous les fils de terre en un point de masse commun.
- Veillez à isoler avec du chatterton tout fil lâche non raccordé.

Remarques sur le cordon d'alimentation (jaune)

- Lorsque cet appareil est raccorder à d'autres éléments stéréo, la valeur nominale des circuits de la voiture raccorder 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.

Raccordement de l'alimentation

Les connecteurs d'alimentation peuvent varier selon le modèle de la voiture. Vérifiez le schéma du connecteur d'alimentation de votre voiture pour vérifier si les raccordements correspondent. On distingue deux types de base. Il se peut que vous deviez commuter les positions du cavalier. Avant de raccorder l'appareil à l'alimentation de la voiture, faites correspondre la position du cavalier à l'ordre des broches de la voiture. Si le connecteur d'alimentation de votre véhicule ne correspond pas au connecteur de l'appareil, utilisez le connecteur (non fourni). Si vous avez des questions ou des problèmes au sujet du raccordement de votre appareil qui ne sont pas abordés dans le présent mode d'emploi, consultez votre concessionnaire automobile.

AVVERTENZA
Décalage du fusible

Vérifiez la position des broches du connecteur d'alimentation de la voiture dans le tableau ci-dessous. Si les positions 4 et 7 sont inversées, retirez le fusible et décalez-le sur la position inférieure comme indiqué dans l'illustration.



Liste des composants (1)

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

Avvertimento

Manipolare precautamente il supporto ❶ per evitare di vous lesioni alle dita.

Exemple de raccordement (2)

- Remarque (❶ A, B, C) : • Raccordez d'abord le fil de masse avant de connecter l'amplificateur.
- Si vous raccordez un amplificateur de puissance indépendant et si vous n'utilisez pas l'amplificateur intégré, le bip sera désactivé.

Consul (❶ B, C) : Dans le cas du raccordement de deux changeurs de CD/MD ou plus, le sélecteur de source XA-C30 (en option) est indispensable.

Schémas de raccordement (3)

- ❶ Au niveau du AMP REMOTE IN d'un amplificateur de puissance en option. Ce raccordement est réservé exclusivement pour les amplificateurs. Le raccordement à tout autre système peut endommager l'appareil.
- ❷ Vers le cordon de liaison d'un téléphone de voiture.

Avvertimento

Si vous disposez d'une antenne électrique sans relais, le raccordement de cet appareil avec le cordon d'alimentation (non fourni) peut endommager l'antenne.

Remarques sur les fils de contrôle

- La sortie de commande de l'antenne (bleu) fournit du courant continu de +12 V lorsque vous allumez le sélecteur de canaux ou lorsque vous activez la fonction ATA (activation automatique du système). AF (fréquence alternative) ou TA (informations circulation).
- Lorsque votre voiture est équipée d'une antenne FMM/MWLW intégrée dans la vitre arrière latérale, raccordez la sortie 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.

Raccordement pour la sauvegarde de la mémoire

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

Remarques sur le raccordement des haut-parleurs

- Avant de raccorder les haut-parleurs, mettez l'appareil hors tension.
- Utilisez des haut-parleurs ayant une impédance de 4 à 8 ohms avec une capacité de manipulation adéquate pour éviter de les endommager.
- Ne raccordez pas les bornes du système de haut-parleurs au chassis de la voiture et ne raccordez pas les bornes de haut-parleur droit à celles de haut-parleur gauche.
- 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.

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 (non in dotazione) all'apparecchio e al diffusori prima di collegarlo al sistema esistente.
- **Portare tutti i cavi di massa a un punto di massa comune.**
- Per motivi di sicurezza, isolare qualsiasi cavo non collegato mediante apposito nastro.

Note sul cavo di alimentazione (giallo)

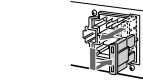
- Se questo apparecchio viene collegato con altri componenti stereo, la potenza nominale dei circuiti dell'automobile deve essere superiore a quella prodotta dalla somma dei fusibili di ciascun componente.
- Se la potenza nominale dei circuiti dell'automobile non è sufficiente, collegare l'apparecchio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

Collegamento con l'alimentazione

I connettori di alimentazione possono essere diversi a seconda del tipo di automobile. Controllare il diagramma relativo al connettore di alimentazione della propria auto per assicurarsi che i collegamenti corrispondano perfettamente. Esistono due principali tipi di connettori di alimentazione. Potrebbe essere necessario cambiare le posizioni del connettore ponticello. Prima di collegare l'apparecchio all'alimentazione dell'auto, assicurarsi di far corrispondere la posizione del connettore ponticello all'ordine dei piedini dell'auto. Se il connettore di alimentazione dell'auto non è compatibile con quello dell'apparecchio, utilizzare il connettore (non in dotazione). In caso di domande o problemi relativi al collegamento dell'apparecchio non contemplati in questo manuale, contattare il rivenditore autorizzato dell'automobile.

AVVERTENZA
Come spostare il fusibile

Controllare la posizione dei piedini del connettore di alimentazione dell'auto utilizzando la tabella in basso. Se i piedini 4 e 7 sono invertiti, rimuovere il fusibile e spostarlo nella posizione più in basso come mostrato nella figura.



Elenco dei componenti (1)

I numeri nella lista corrispondono a quelli riportati nelle istruzioni.

Attenzione

Manipolare la staffa ❶ con cautela per evitare di ferirsi le mani.

Esempi di collegamento (2)

Note (❶ A, B, C)

- Assicurarsi di collegare il cavo di terra prima di collegare l'apparecchio all'amplificatore.
- Se si effettua il collegamento di un amplificatore di potenza opzionale e l'amplificatore incorporato non viene utilizzato, il segnale acustico si disattiva.

Suggerimento (❶ B, C)

Per collegare due o più cambi CD/MD, si deve utilizzare il selettore di fonte XA-C30 (opzionale).

Schema di collegamento (3)

- ❶ 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.
- ❷ Al cavo interfaccia di un telefono per auto.

Avvertenza

Quando si collega l'apparecchio con il cavo di alimentazione (non in dotazione), si potrebbe danneggiare l'antenna elettrica se questa non dispone di scatola a rete.

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 la funzione ATA (attivazione automatica sintonizzatore), AF (frequenza alternativa) o TA (poliziotto sul traffico).
- Se l'automobile è dotata di antenna FMM/MWLW incorporata nel vetro posteriore laterale, collegare il cavo (blu) di controllo dell'antenna elettrica al 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 utilizzare un'antenna elettrica senza scatola a rete 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 la chiavetta di accensione è spenta.

Note sul collegamento dei diffusori

- Prima di collegare i diffusori spegnere l'apparecchio.
- Utilizzare diffusori di impedenza compresa tra 4 e 8 ohm e con capacità di potenza adeguata, altrimenti i diffusori potrebbero venire danneggiati.
- Non collegare i terminali del sistema diffusori al telaio dell'auto e non collegare i terminali dei diffusori destro a quelli del diffusore sinistro.
- Non collegare i diffusori in parallelo.
- Non collegare alcun diffusore attivo (con amplificatore incorporato) ai terminali dei diffusori dell'apparecchio perché si potrebbero danneggiare i componenti. Assicurarsi di collegare diffusori passivi a questi terminali.

Let op!

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

Opmerkingen bij de voedingskabel (geel)

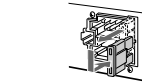
- Wanneer u dit toestel aansluit samen met andere componenten, moet het vermogen van de aangesloten autoontkruiser groter zijn dan de som van de de zekeringen van elke component afzonderlijk.
- Wanneer het vermogen ontoereikend is, moet u het toestel rechtstreeks aansluiten op de batterij.

Voedingsaansluiting

Voedingskabels kunnen verschillen van auto tot auto. Controleer het voedingscircuit van uw auto om te na gaan of de aansluitingen kloppen. Er zijn twee basis types. Eventueel moeten de posities van de jumperskroon worden omgewisseld. Alvorens het toestel aan te sluiten op de voeding van de auto, moet u controleren of de jumperskroon overeenkomt met de pinvolgorde. Gebruik de stekker (niet meegeleverd) indien de voedingsstekker van uw auto niet de stekker van het toestel. Voor alle vragen over problemen in verband met het toestel kunt u terecht bij uw auto dealer.

WAARSCHUWING
Verplaatsen van de zekering

Vergelijk de pinposities van de voedingsstekker in de auto met de onderstaande tabel. Als de posities 4 en 7 omgekeerd zijn, moet u de zekering verwijderen en deze in de onderste positie aanbrengen zoals aangegeven in de afbeelding.



Onderdelenlijst (1)

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

Opgelet

Houd de draad ❶ voorzichtig vast zodat u uw vingers niet verwondt.

Voorbeeldaansluitingen (2)

Opmerkingen (❶ A, B, C)

- Sluit eerst de massakabel aan alvorens de versterker aan te sluiten.
- Wanneer u een los verkrijgbare vermogenversterker aansluit en de ingebouwde versterker niet gebruikt, wordt de pieptoon uitgeschakeld.

Tip (❶ B, C)

Om twee of meer CD/MD-wisselaars aan te sluiten, hebt u de geïntegreerde XA-C30 (optioneel) nodig.

Aansluitschema (3)

- ❶ Naar AMP REMOTE IN van een los verkrijgbare vermogenversterker. Deze aansluiting is alleen bedoeld voor versterkers. Door een ander systeem aan te sluiten kan het toestel worden beschadigd.
- ❷ Naar het interface-snoer van een autofoon.

Opgelet

Indien u beschikt over een elektrische antenne zonder relaiskast, kan de antenne worden beschadigd wanneer u dit toestel aansluit met behulp van de voedingskabel (niet meegeleverd).

Opmerking betreffende de aansluitingen

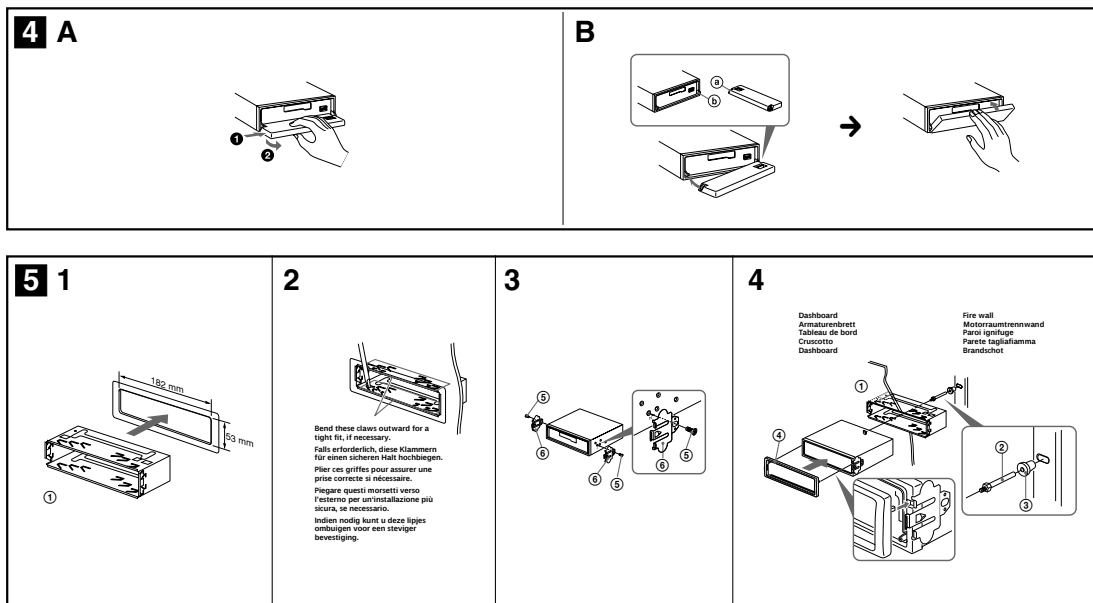
- De antennevoedingskabel (blauw) levert +12 V gelijkstroom als de tuner wordt ingeschakeld of als de functie ATA (Automatische Tuner Activating), AF (Alternatieve Frequentie) of TA (verkeersinformatie) wordt geactiveerd.
- Wanneer uw auto u uitgerust met een FMM/MWLW antenne in de achterruit/venster, moet u de antennevoedingskabel (blauw) of de hulpspoedingkabel (rood) aansluiten op de voedingsgang aan de bestaande antenneversterker. Raadpleeg uw dealer voor meer details.
- Met dit apparaat is het niet mogelijk een automatische antenne zonder relaiskast te gebruiken.

Instaanhouding 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 niet 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.
- Probeer nooit de luidsprekers parallel aan te sluiten.
- Sluit geen active luidsprekers (met ingebouwde versterker) aan op de luidspreker-aansluiting van dit apparaat. Dit zal leiden tot beschadiging van het toestel. Sluit dus altijd uitsluitend luidsprekers zonder ingebouwde versterker aan.



Precautions

- Choose the installation location carefully so that the unit will not interfere with normal driving operations.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperature, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.
- There must be a distance of at least 15 cm between the cassette slot of the unit and shift lever to insert cassette easily. Choose the installation location carefully so the unit does not interfere with gear shifting and other driving operations.



Mounting angle adjustment
Adjust the mounting angle to less than 20°.

How to detach and attach the front panel (4)

Before installing the unit, detach the front panel.

4-A To detach

Before detaching the front panel, be sure to press (OFF). Press (OFF), then slide the front panel to the right side, and pull out the left side.

4-B To attach

Place the hole (4) in the front panel onto the spindle (4) on the unit as illustrated, then push the left side in.

Mounting example (5)

Installation in the dashboard

Warning when installing in a car without ACC (accessory) position on the ignition key switch

Be sure to press (OFF) on the unit for two seconds to turn off the clock display after turning off the engine.

When you press (OFF) only momentarily, the clock display does not turn off and this causes battery wear.

RESET button

When the installation and connections are completed, be sure to press the RESET button with a ballpoint pen, etc.



Vorsichtsmaßnahmen

- Wählen Sie den Einbaupunkt sorgfältig so aus, daß das Gerät beim Fahren nicht hinderlich ist.
- Beauen Sie das Gerät so ein, daß es keinem hohen Temperaturen (keinem direkten Sonnenlicht, keiner Wärmeluft von der Heizung), keinem Staub, keinem Schmutz und keinen starken Vibrationen ausgesetzt ist.
- Für eine sichere Befestigung verwenden Sie stets nur die mitgelieferten Montageteile.
- Zwischen dem Kassettenschlitz des Geräts und dem Schalthebel des Fahrzeugs muß ein Abstand von mindestens 15 cm sein, damit eine Kassette mühelos eingelegt werden kann. Wählen Sie den Einbaupunkt sorgfältig so aus, daß das Gerät beim Schalten nicht hinderlich ist.



Hinweis zum Montagewinkel

Das Gerät sollte in einem Winkel von weniger als 20° montiert werden.

Abnehmen und Anbringen der Frontplatte (4)

Nehmen Sie die Frontplatte vor dem Einbau des Geräts ab.

4-A Abnehmen

Drücken Sie auf jeden Fall (OFF), bevor Sie die Frontplatte abnehmen. Drücken Sie (OFF), schieben Sie dann die Frontplatte nach rechts, und ziehen Sie sie an der linken Seite heraus.

4-B Anbringen

Setzen Sie die Aussparung (4) an der Frontplatte wie in der Abbildung dargestellt am Stift (4) am Gerät an, und drücken Sie dann die linke Seite hinein.

Anschlußbeispiel (5)

Installation im Armaturenbrett

Warnhinweis zur Installation des Geräts in einem Auto mit Zündschloß ohne Zubehörsposition ACC oder I

Drücken Sie am Gerät unbedingt zwei Sekunden lang (OFF), um die Uhrzeitanzeige auszuschalten, nachdem Sie den Motor ausgeschaltet haben. Wenn Sie (OFF) nur kurz drücken, wird die Uhrzeitanzeige nicht ausgeschaltet, und der Autobatterie wird Strom entzogen.

Taste RESET

Nach der Installation und dem Anschluß muß die Taste RESET mit einem Kugelschreiber o. ä. gedrückt werden.



Précautions

- Choisissez soigneusement l'emplacement de l'installation afin que l'appareil ne gêne pas la conduite normale du véhicule.
- Evitez d'installer l'appareil dans un endroit exposé à la poussière, à la saleté, à des vibrations excessives ou à des températures élevées comme en plein soleil ou à proximité de conduits de chauffage.
- Pour garantir un montage sûr, n'utilisez que le matériel fourni.
- Pour pouvoir introduire aisément une cassette, il doit y avoir une distance d'au moins 15 cm entre le logement de la cassette de l'appareil et le levier de changement de vitesses. Choisissez soigneusement l'endroit de montage de telle façon que l'appareil ne gêne pas le maniement du changement de vitesses ou toute autre opération de conduite.



Réglage de l'angle de montage

Ajuster l'inclinaison à un angle inférieur à 20°.

Retrait et pose de la façade (4)

Avant d'installer l'appareil, retirez la façade.

4-A Pour retirer

Avant de retirer la façade, n'oubliez pas d'appuyer d'abord sur (OFF). Appuyez sur (OFF), puis faites glisser la façade vers la droite et retirez-la par la gauche.

4-B Pour poser

Placez la partie (4) de la façade sur la partie (4) de l'appareil, comme indiqué sur l'illustration, puis appuyez sur le côté gauche jusqu'au déclic.

Exemple de montage (5)

Installation dans le tableau de bord

Avertissement en cas d'installation dans une voiture dont le contact ne comporte pas de position ACC (accessoires)

Appuyez sur la touche (OFF) de l'appareil pendant deux secondes pour désactiver l'affichage de l'horloge après avoir coupé le moteur. Si vous n'appuyez que brièvement sur (OFF), l'affichage de l'horloge ne disparaît pas, ce qui provoque la décharge de la batterie.

Touche RESET

Quand l'installation et les raccordements sont terminés, appuyez sur la touche RESET avec un stylo à bille, etc.



Precauzioni

- Scegliere con attenzione la posizione per l'installazione in modo che l'apparecchio non interferisca con le operazioni di guida del conducente.
- Evitare di installare l'apparecchio dove sia soggetto ad alte temperature, come alla luce solare diretta o al getto di aria calda dell'impianto di riscaldamento, o dove possa essere soggetto a polvere, sporcizia e vibrazioni eccessive.
- Usare solo il materiale di montaggio in dotazione per un'installazione stabile e sicura.
- Per poter inserire una cassetta facilmente, è necessario che fra la fessura di inserimento della cassetta e la leva del cambio vi siano almeno 15 cm di distanza. Scegliere la posizione di installazione con attenzione in modo da non ostacolare l'uso del cambio né le altre operazioni di guida.



Regolazione dell'angolo di montaggio

Regolare l'angolo di montaggio in modo che sia inferiore a 20°.

Come rimuovere e reinserire il pannello anteriore (4)

Prima di installare l'apparecchio rimuovere il pannello anteriore.

4-A Per rimuovere

Prima di rimuovere il pannello anteriore, assicurarsi di premere (OFF). Premere (OFF), quindi far scivolare il pannello anteriore verso destra e tirare il lato sinistro verso di sé.

4-B Per reinserirlo

Applicare il foro (4) del pannello anteriore al mandrino (4) dell'apparecchio come mostrato nell'illustrazione e premere il lato sinistro fino a sentire uno scatto.

Esempi di collegamento (5)

Installazione nel cruscotto

Informazioni importanti per quando si effettua l'installazione su un'auto sprovvista della posizione ACC sull'interruttore di accensione

Assicurarsi di premere (OFF) sull'apparecchio per due secondi per spegnere il display dell'orologio dopo che il motore è stato spento. Se si preme (OFF) solo per un attimo, il display dell'orologio non si spegne causando in questo modo lo scaricamento della batteria.

Tasto RESET

Dopo avere terminato l'installazione e i collegamenti, assicurarsi di premere il tasto RESET con la punta di una penna a sfera o di un altro oggetto appuntito.



Voorzorgsmaatregelen

- Kies de installatieplaats zorgvuldig zodat het toestel de bestuurder niet hindert tijdens het rijden.
- Installeer het apparaat niet op plaatsen waar het blootgesteld wordt aan hoge temperaturen, b.v. in direct zonlicht of bij de warme luchtstroom van de autoverwarming, aan sterke trillingen, of waar het in contact komt met veel stof of vuil.
- Gebruik voor het veilig en stevig monteren van het apparaat uitsluitend de bijgeleverde montageonderdelen.
- De cassettegoot van het toestel moet minstens 15 cm van de schakelpook af zitten om een cassette makkelijk te kunnen inbrengen. Kies de installatieplaats zorgvuldig zodat het toestel niet hindert bij het schakelen en andere rijphandelingen.



Maximale montagehoek

Installeer het apparaat nooit onder een hoek van meer dan 20° met het horizontale vlak.

Verwijderen en bevestigen van het afneembare voorpaneel (4)

Verwijder, alvorens met het installeren te beginnen, het afneembare voorpaneel.

4-A Verwijderen

Druk eerst op (OFF) alvorens het voorpaneel los te maken. Druk op (OFF), schuif het voorpaneel naar rechts en trek het los aan de linkerkant.

4-B Bevestigen

Breng deel (4) van het voorpaneel aan op deel (4) van het apparaat zoals afgebeeld en druk op de linkerrand tot deze vastklikt.

Voorbeeldaansluitingen (5)

Montage in het dashboard

Opgelet bij het monteren in een auto waarvan het contactslot geen ACC (accessory) stand heeft

Druk (OFF) op het toestel gedurende twee seconden in om de klokweergave uit te schakelen na het afzetten van de motor.

Indien u slechts even op (OFF) drukt, verdwijnt de tijdsindicatie niet waardoor de batterij uitgeput raakt.

RESET-toets

Druk, nadat u het apparaat heeft ginstalleerd en de aansluitingen heeft gemaakt, met een balpen of een ander puntig voorwerp op de RESET-toets.



SECTION 2 DISASSEMBLY

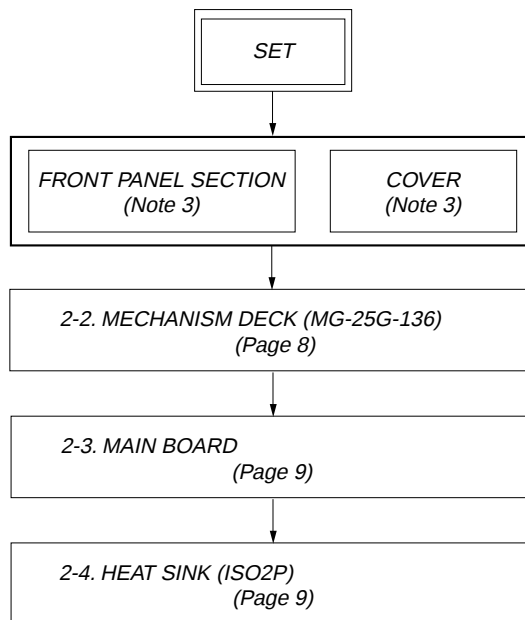
• This set can be disassembled in the order shown below.

2-1. DISASSEMBLY FLOW

Note 1: The process described in  can be performed in any order.

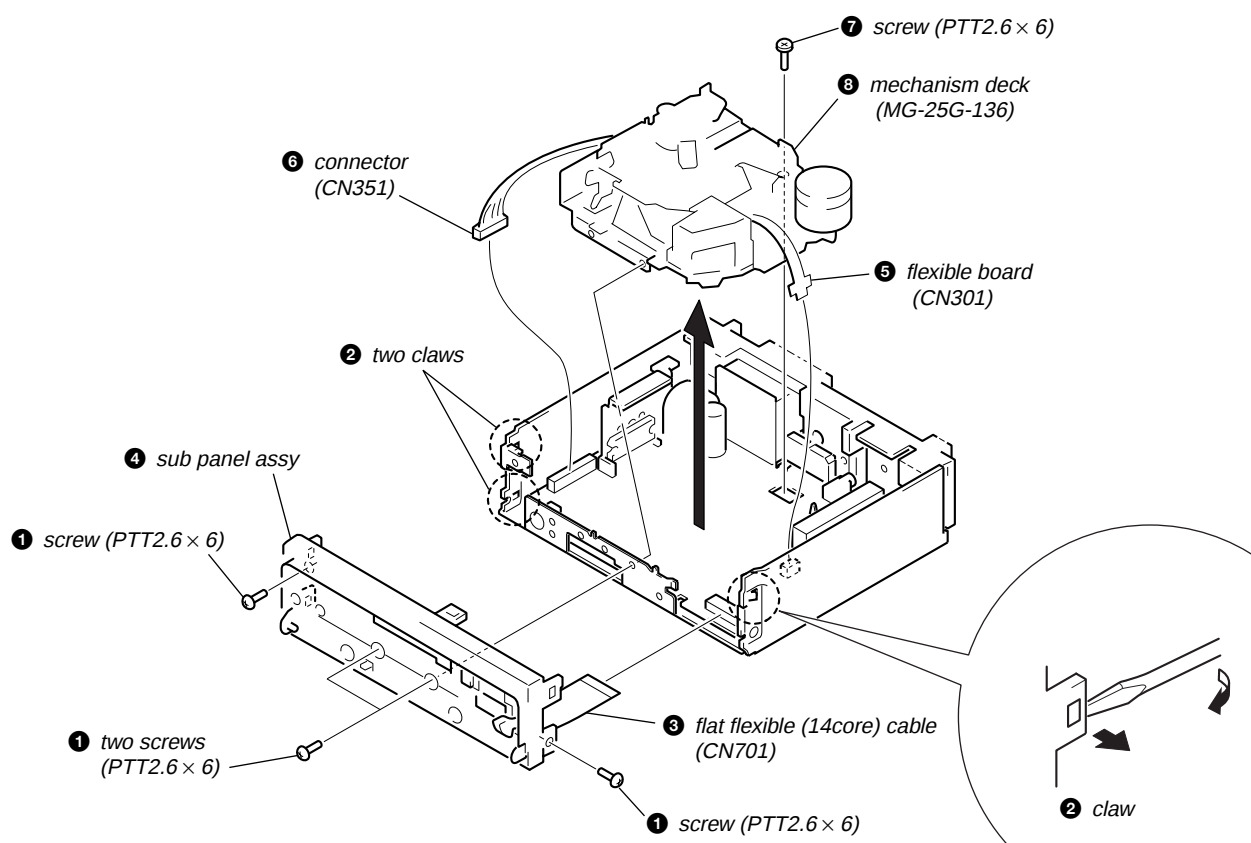
Note 2: Without completing the process described in , the next process can not be performed.

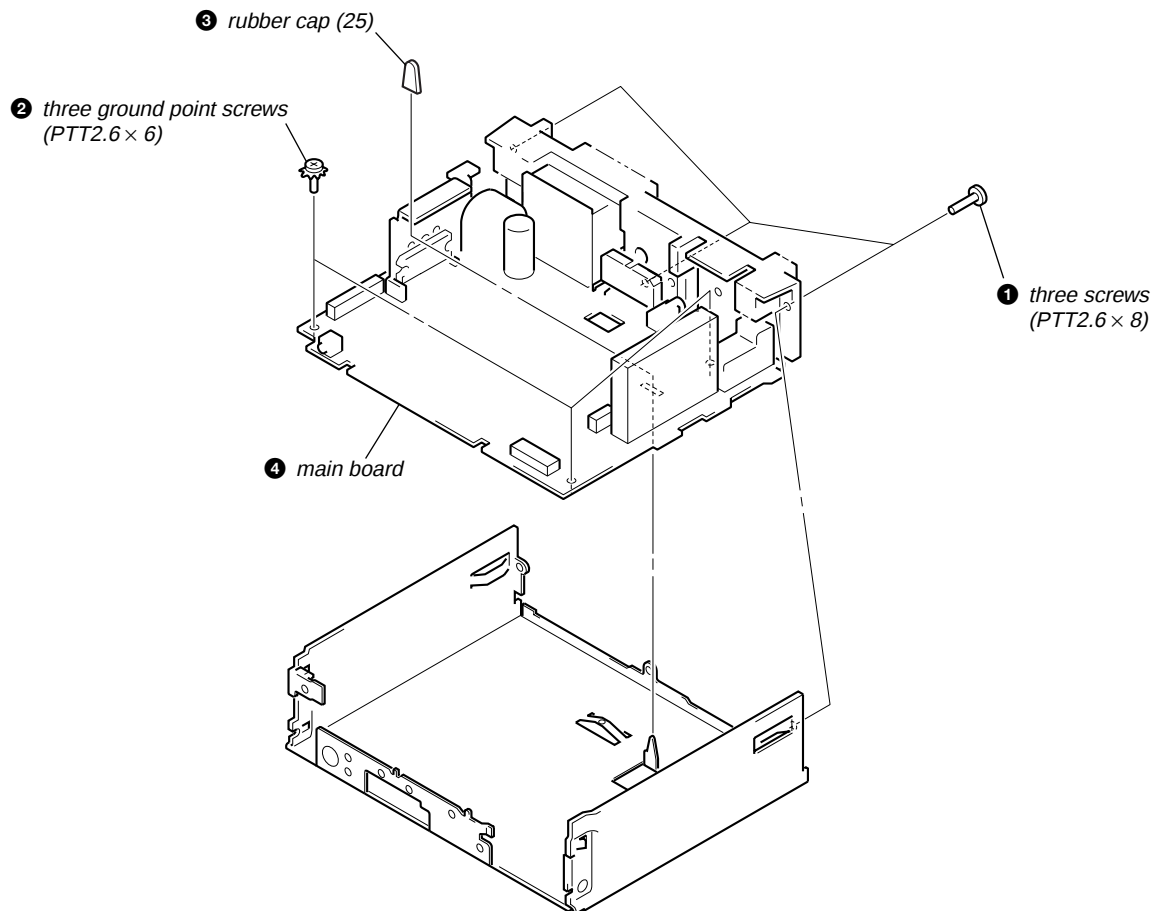
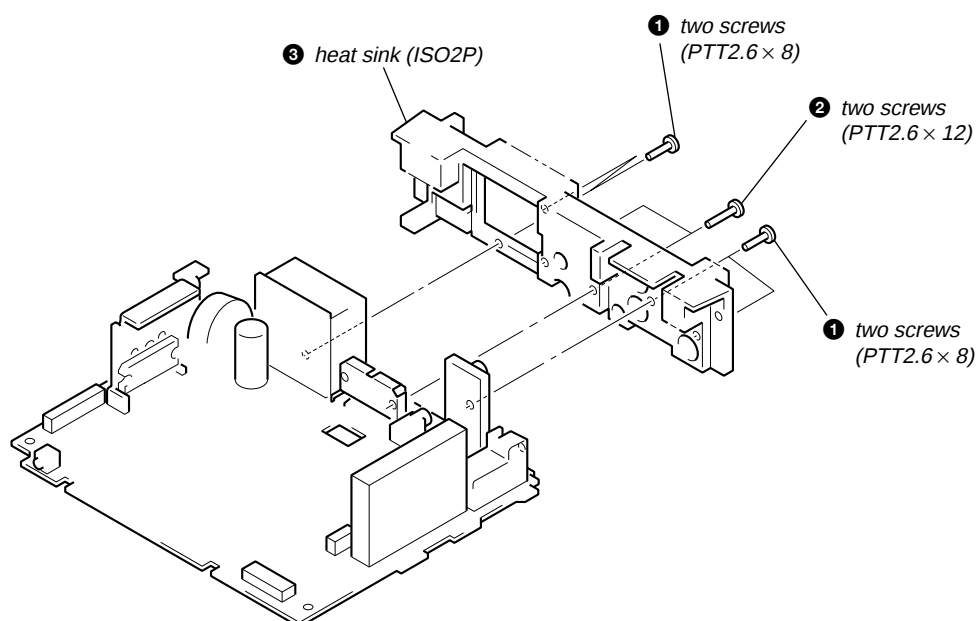
Note 3: Illustration of disassembly is omitted.



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

2-2. MECHANISM DECK (MG-25G-136)

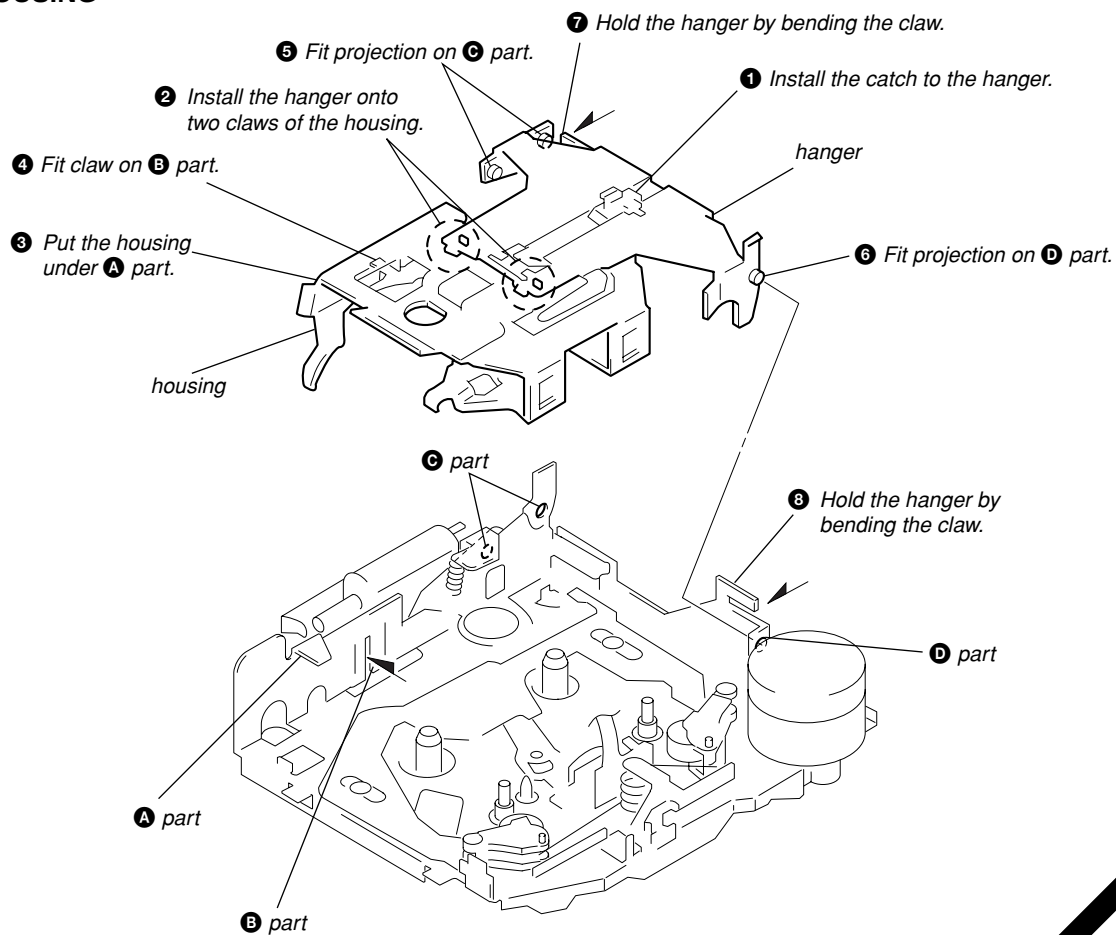


2-3. MAIN BOARD**2-4. HEAT SINK (ISO2P)**

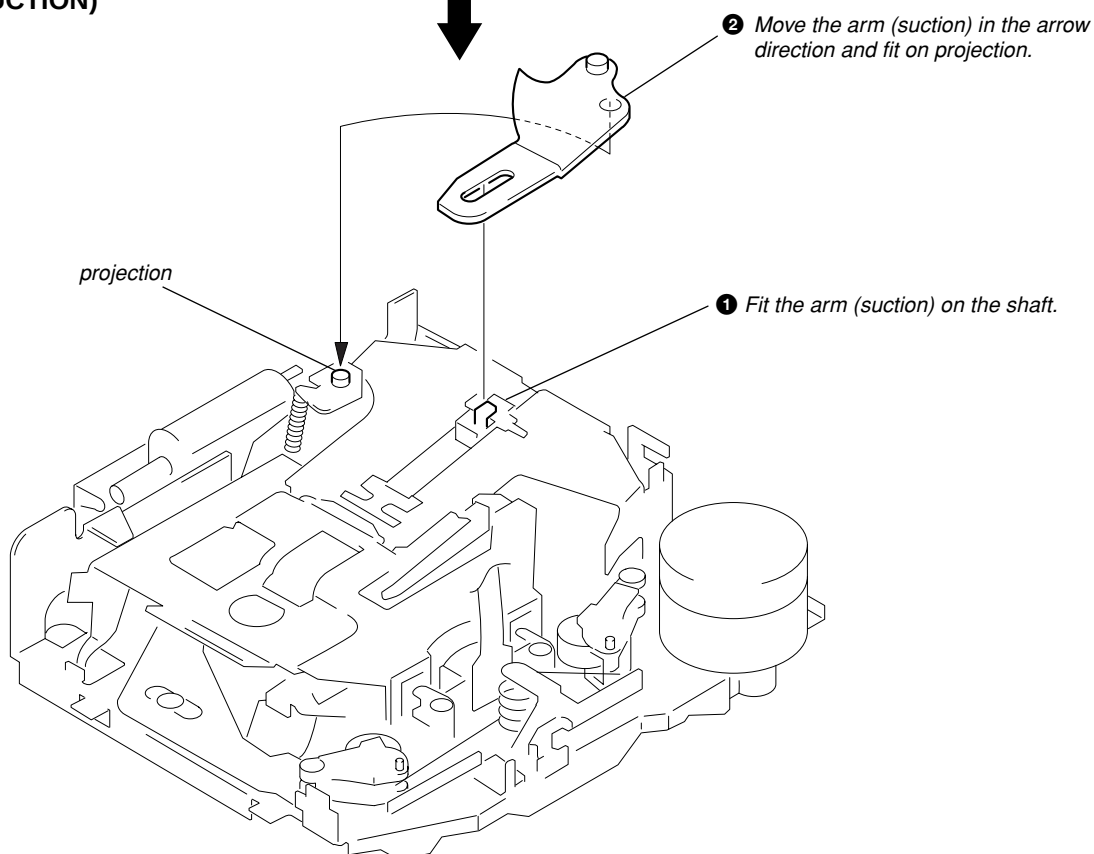
SECTION 3 ASSEMBLY OF MECHANISM DECK

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

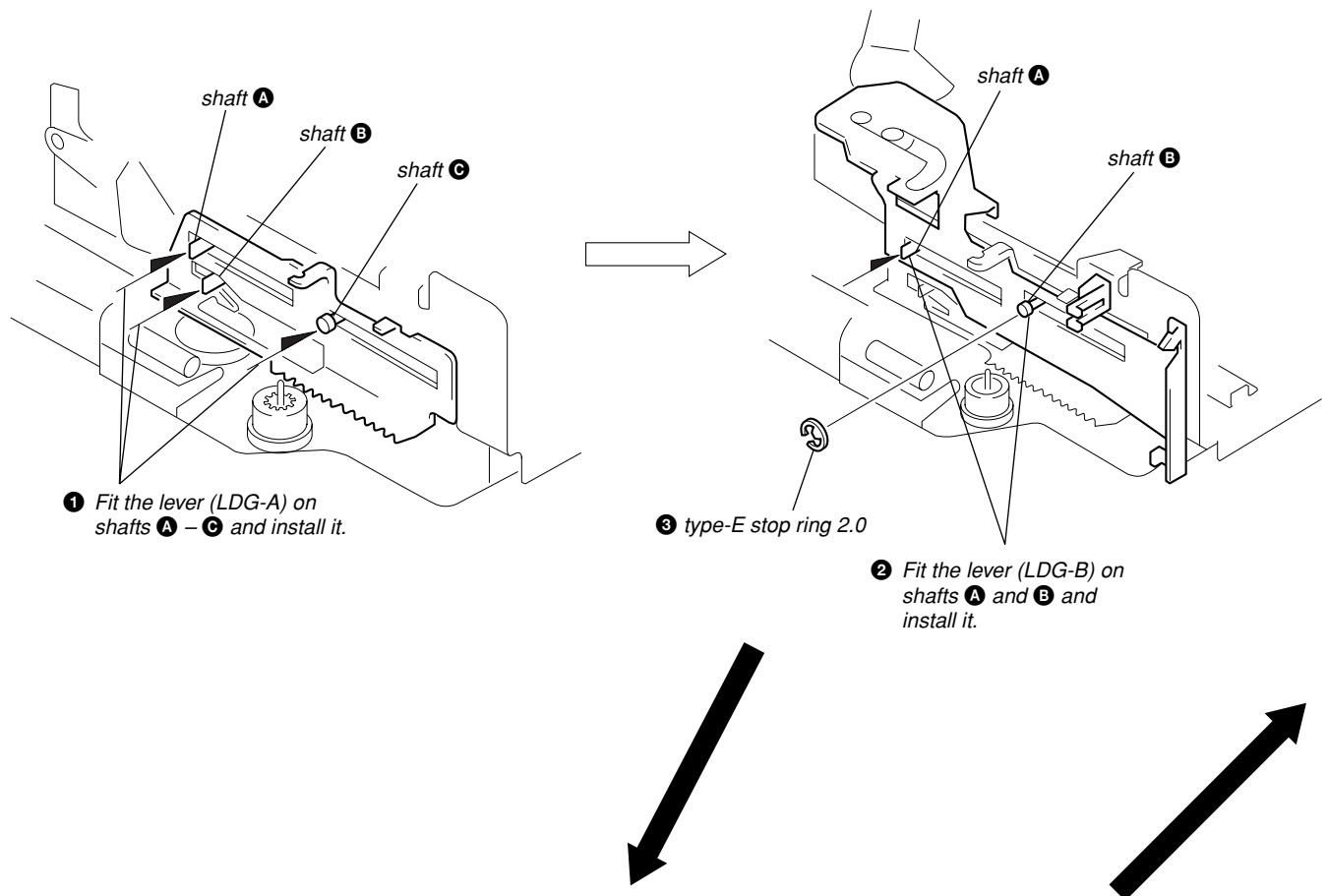
3-1. HOUSING



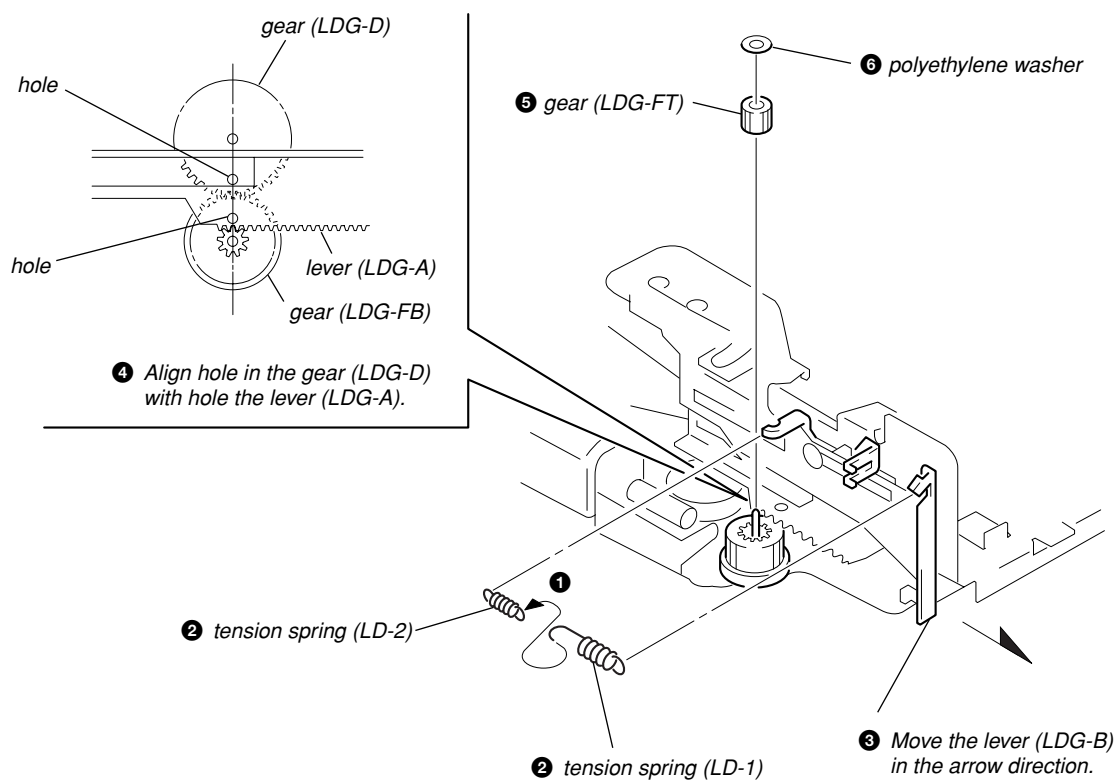
3-2. ARM (SUCTION)



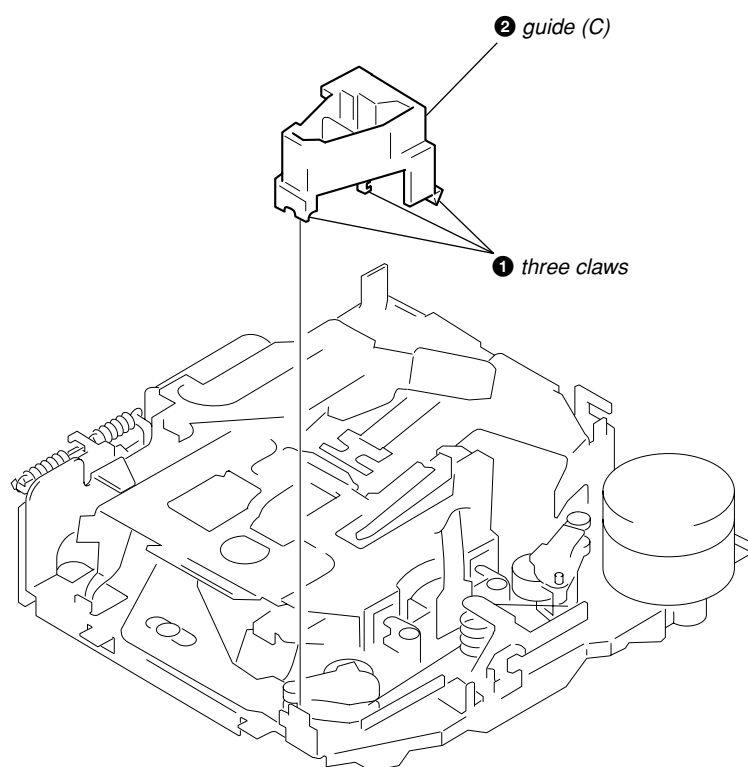
3-3. LEVER (LDG-A) / (LDG-B)



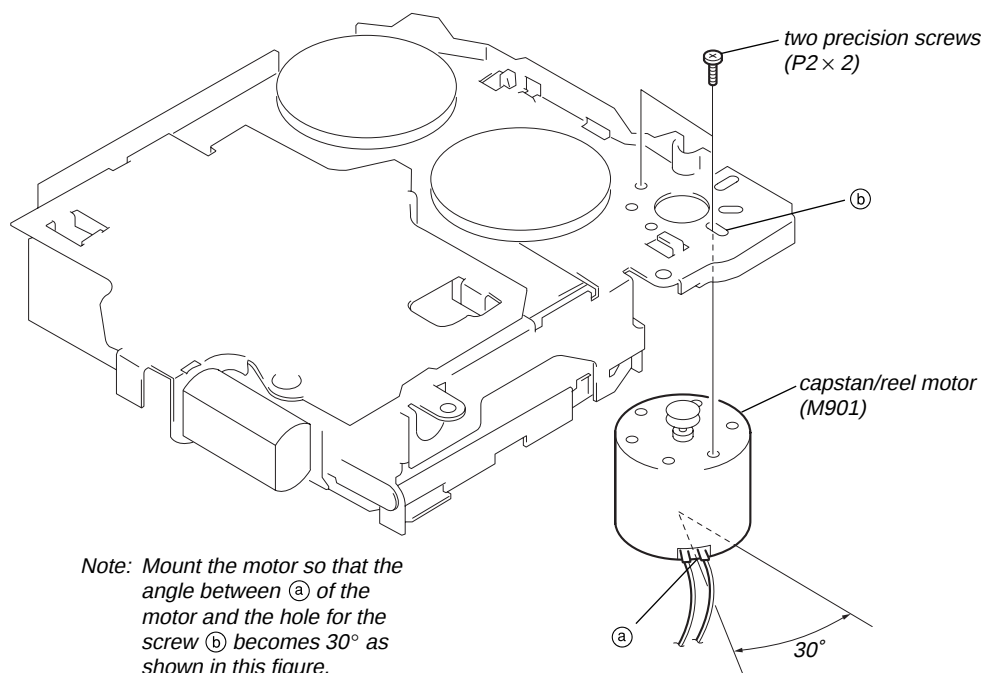
3-4. GEAR (LDG-FT)



3-5. GUIDE (C)



3-6. MOUNTING POSITION OF CAPSTAN/REEL MOTOR (M901)



SECTION 4 MECHANICAL ADJUSTMENTS

- Clean the following parts with a denatured-alcohol-moistened swab:

playback head	pinch roller
rubber belt	capstan
idler	
- Demagnetize the playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- The adjustments should be performed with the power supply voltage (14.4 V) unless otherwise noted.

• Torque Measurement

Mode	Torque Meter	Meter Reading
Forward	CQ-102C	2.95 – 6.37 mN•m (30 – 65 g•cm) (0.42 – 0.90 oz•inch)
Forward Back Tension	CQ-102C	0.05 – 0.44 mN•m (0.5 – 4.5g•cm) (0.01 – 0.06 oz•inch)
Reverse	CQ-102RC	2.95 – 6.37 mN•m (30 – 65 g•cm) (0.42 – 0.90 oz•inch)
Reverse Back Tension	CQ-102RC	0.05 – 0.44 mN•m (0.5 – 4.5g•cm) (0.01 – 0.06 oz•inch)
FF, REW	CQ-201B	5.89 – 19.61 mN•m (60 – 200 g•cm) (0.83 – 2.78 oz•inch)

• Tape Tension Measurement

Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 60 g (more than 2.12 oz)
Reverse	CQ-403R	more than 60 g (more than 2.12 oz)

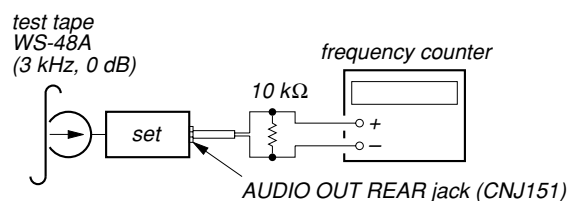
XR-L500/L500V/L500X SECTION 5 ELECTRICAL ADJUSTMENTS

TAPE DECK SECTION

0 dB=0.775 V

Tape Speed Adjustment

Setting:



Procedure:

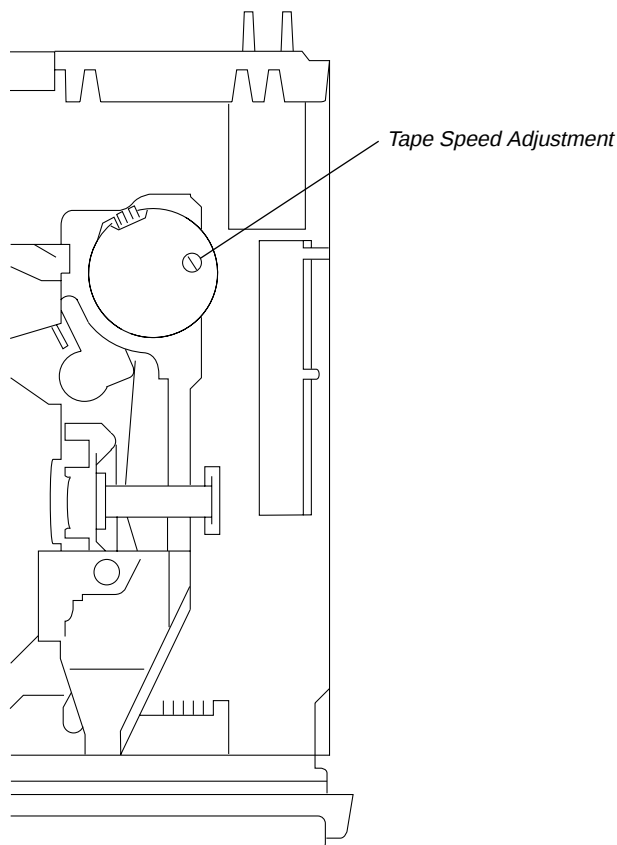
- Put the set into the FWD PB mode.
- Adjust adjustment resistor for inside capstan motor so that the reading on the frequency counter becomes 3,000 Hz.

Specification: Constant speed

Frequency counter
2,955 to 3,075 Hz

Adjustment Location:

– SET UPPER VIEW –



TUNER SECTION

Tuner section adjustments are done automatically in this set.

SECTION 6
DIAGRAMS

6-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

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

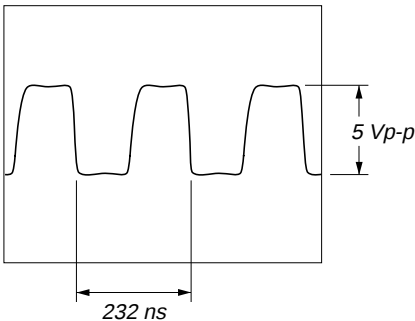
Caution:
Pattern face side: Parts on the pattern face side seen from (Conductor Side) the pattern face are indicated.
Parts face side: Parts on the parts face side seen from (Component Side) the parts face are indicated.

Note on Schematic Diagram:

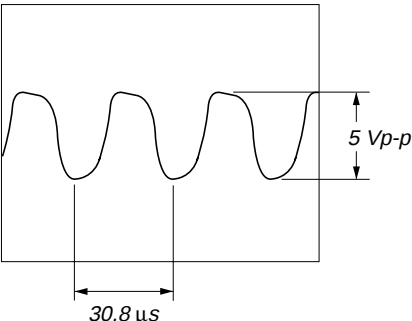
- All capacitors are in μF unless otherwise noted. pF: μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- : panel designation.
- : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
() : MW/LW
<< >> : TAPE PLAYBACK
* : Impossible to measure
- Voltages are taken with a VOM (Input impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
⇒ : FM
⇒ : MW/LW
⇒ : TAPE PLAYBACK
⇒ : BUS AUDIO IN

• Waveforms
– MAIN Board –

① IC51 ④ (OSCO)

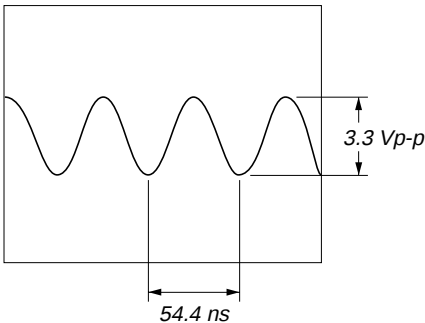


③ IC501 ⑩ (XOUT)

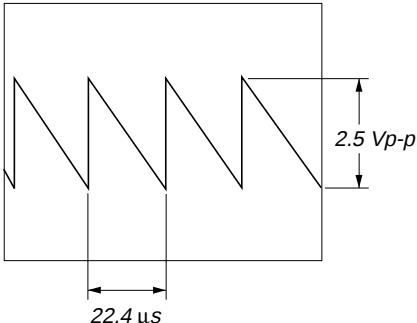


– KEY Board –

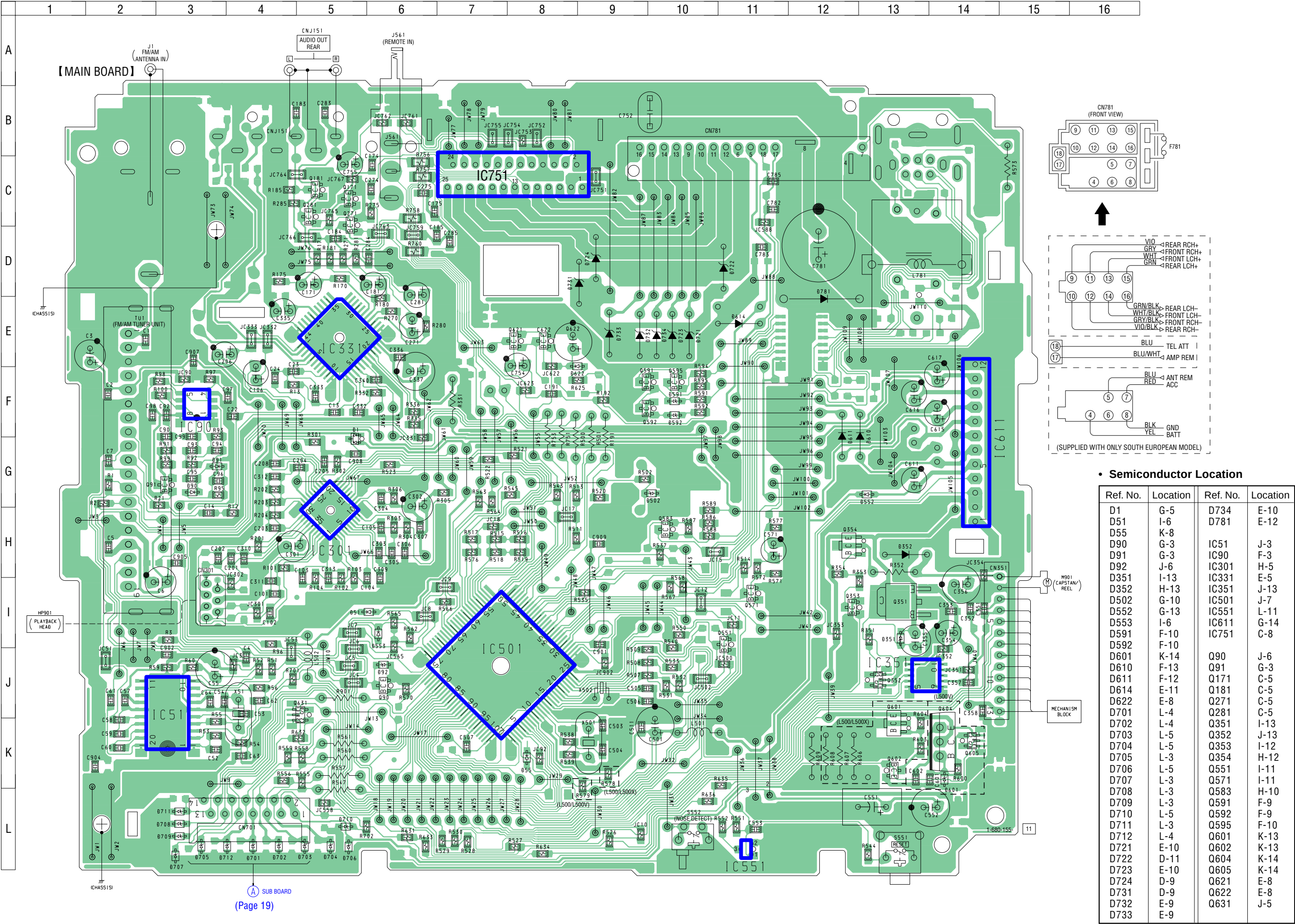
② IC501 ⑫ (OSCOOUT)



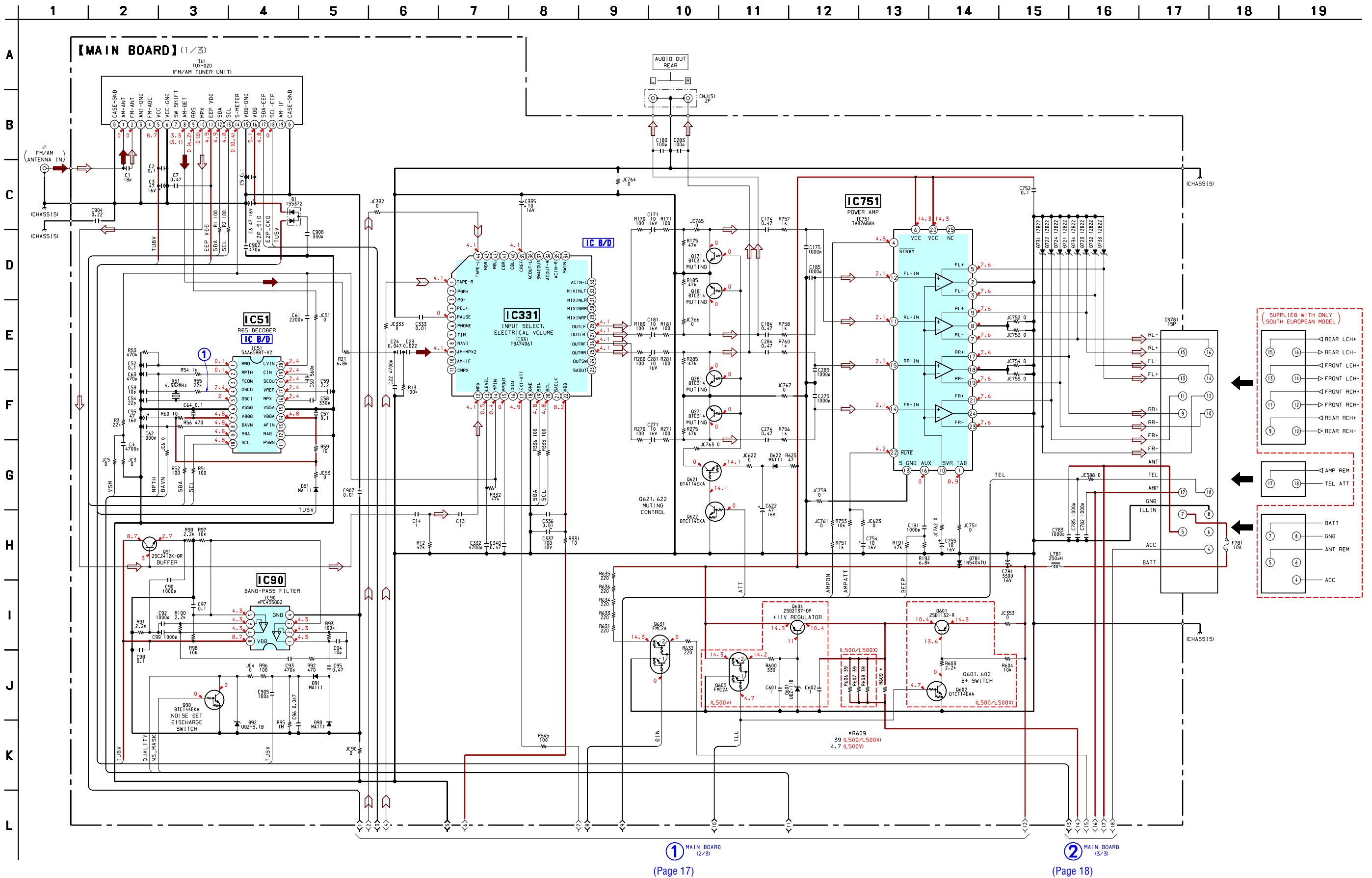
④ IC900 ⑦④ (OSC)



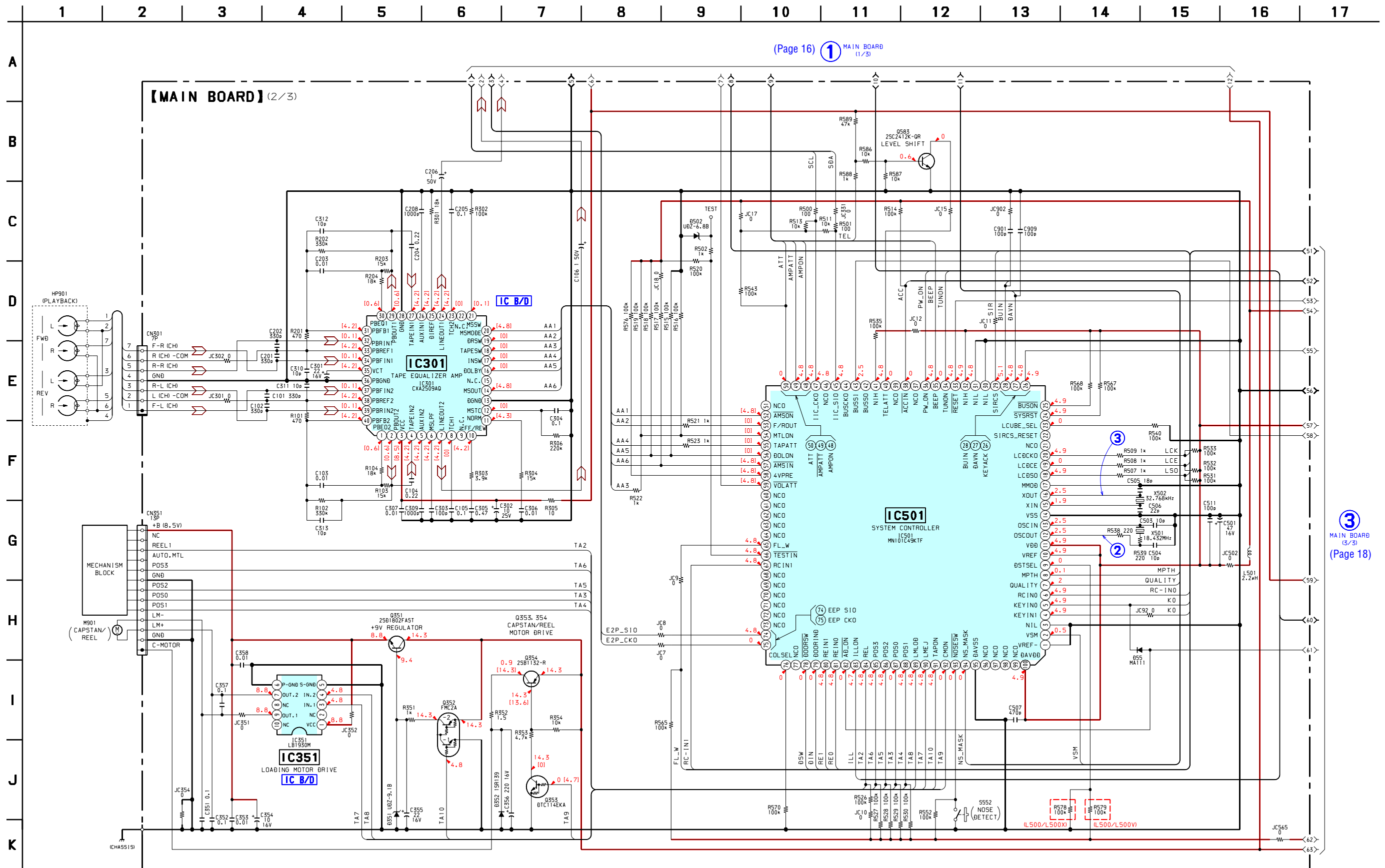
6-2. PRINTED WIRING BOARD – MAIN Board –



6-3. SCHEMATIC DIAGRAM – MAIN Board (1/3) – • See page 14 for Waveform. • See page 23 for IC Block Diagrams.

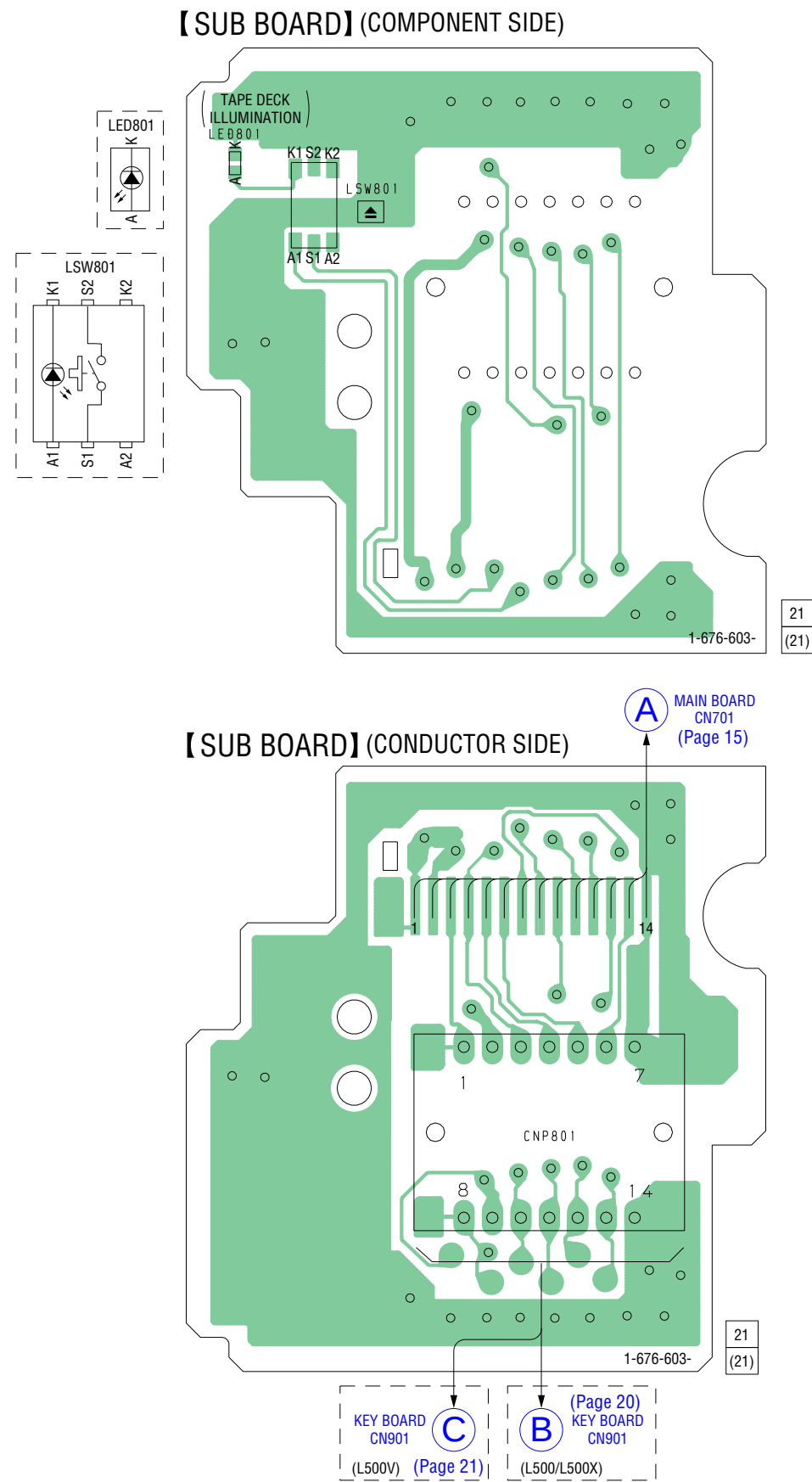


6-4. SCHEMATIC DIAGRAM – MAIN Board (2/3) – • See page 14 for Waveforms. • See page 23 for IC Block Diagrams.

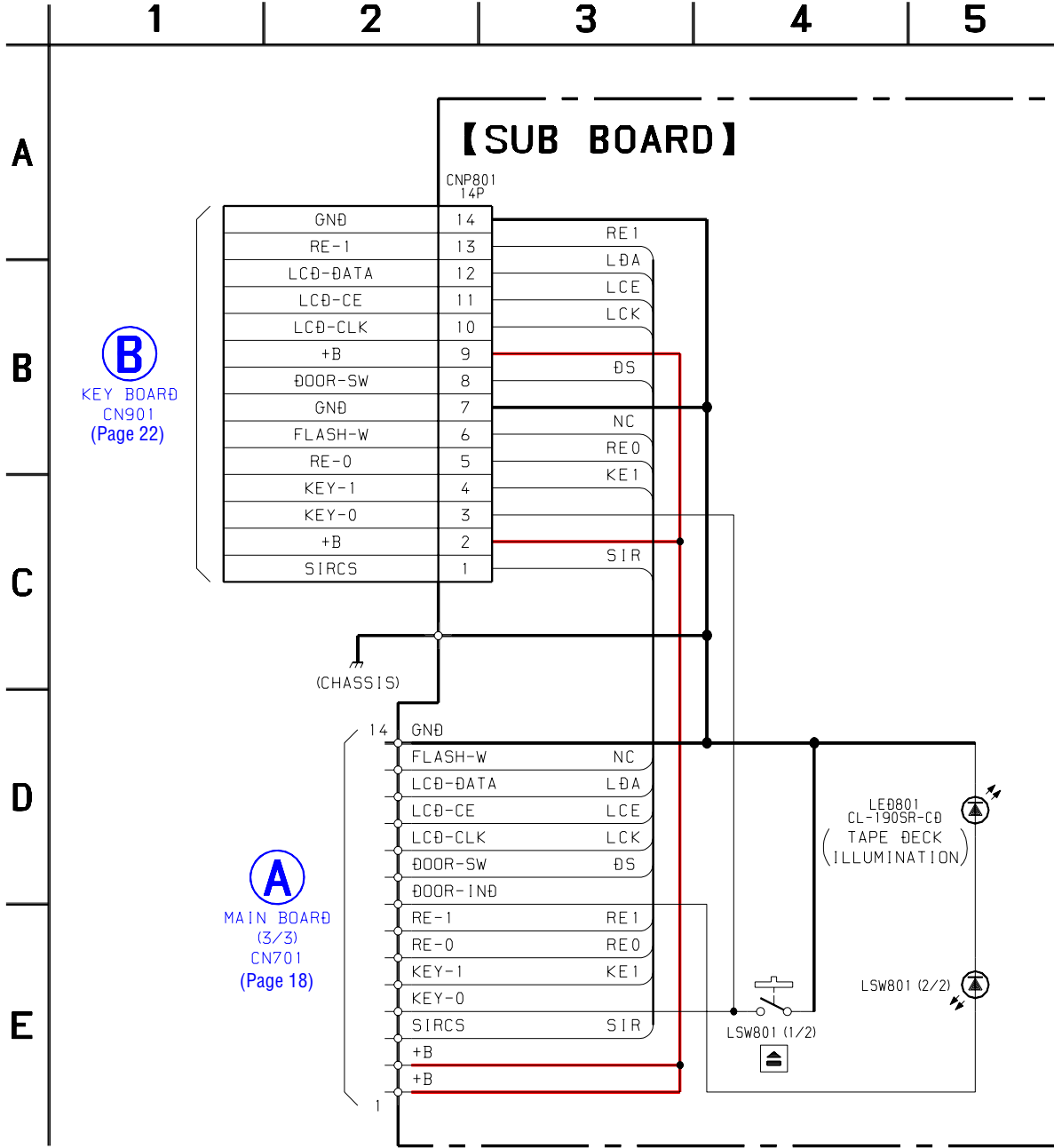




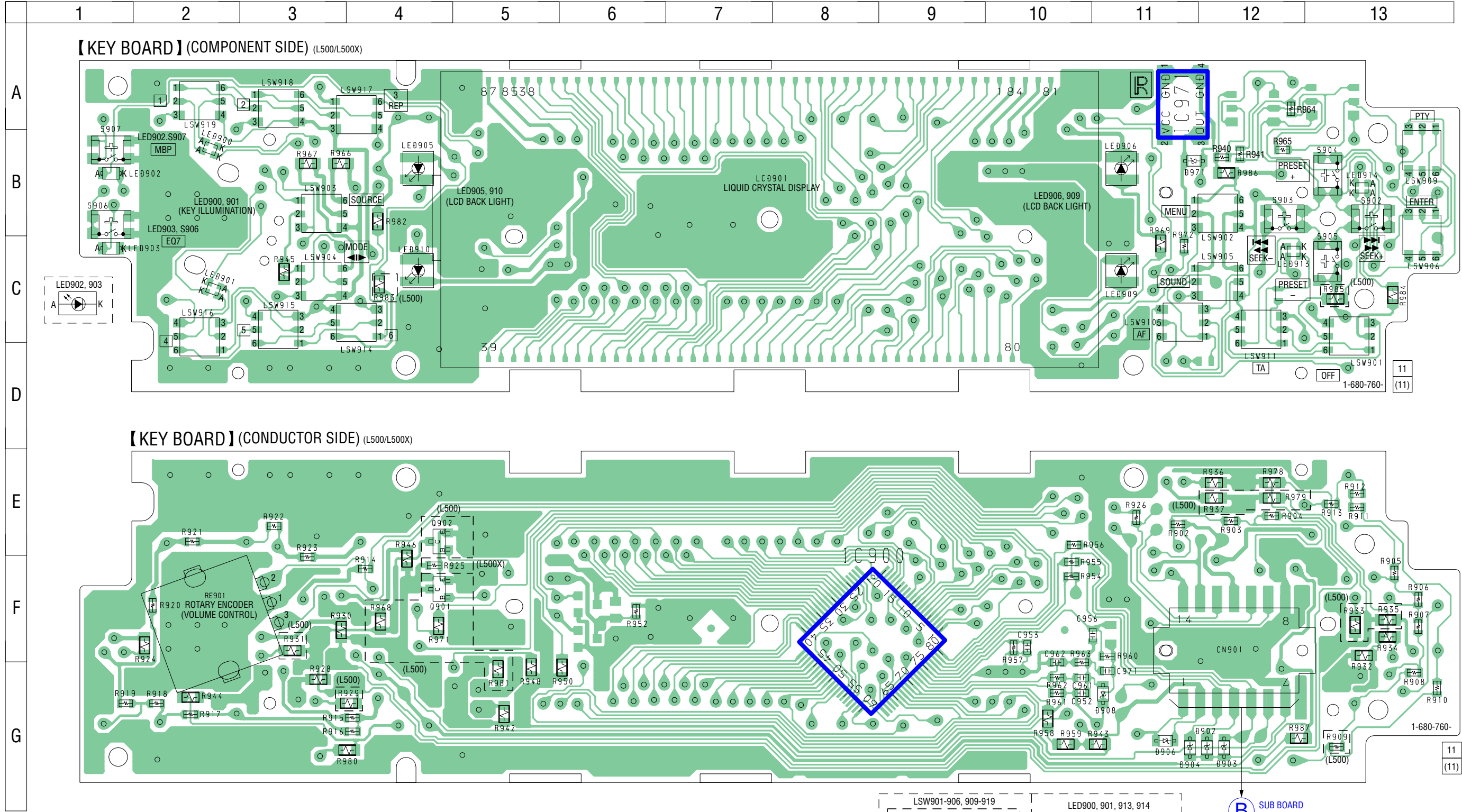
6-6. PRINTED WIRING BOARD – SUB Board –



6-7. SCHEMATIC DIAGRAM – SUB Board –

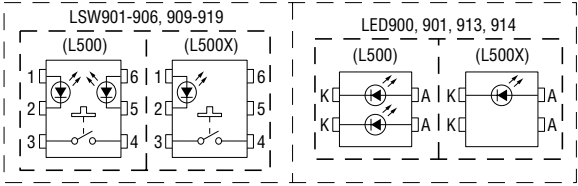


6-8. PRINTED WIRING BOARD – KEY Board (XR-L500/L500X) –



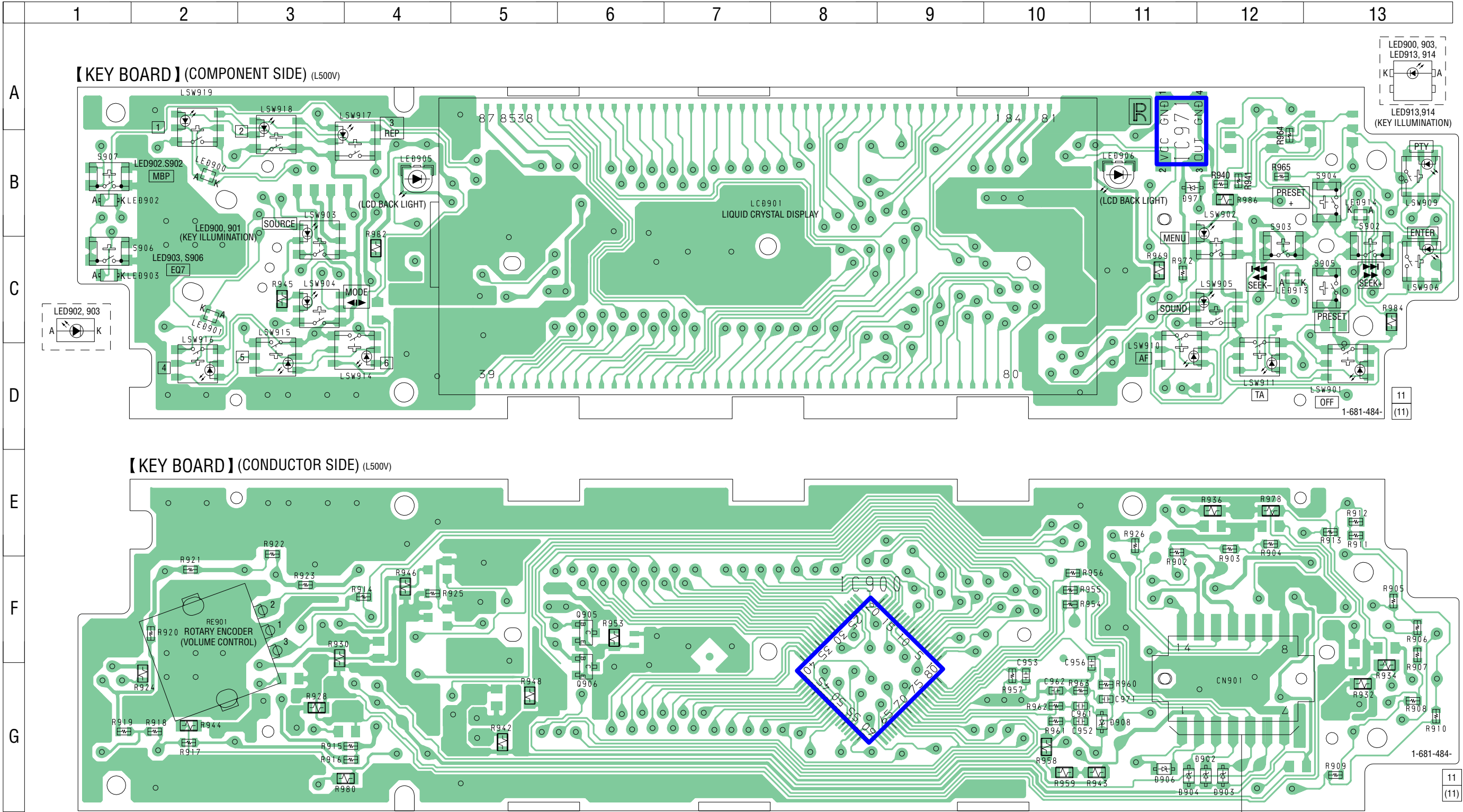
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D902	G-12	LED902	B-1
D903	G-12	LED903	C-1
D904	G-11	LED905	B-4
D906	G-11	LED906	B-11
D908	G-11	LED909	C-11
D971	B-11	LED910	C-4
		LED913	C-12
IC900	G-8	LED914	B-13
IC971	B-11		
LED900	B-2	Q901	F-4
LED901	C-2	Q902	F-4



B SUB BOARD
CNP801
(Page 19)

6-9. PRINTED WIRING BOARD – KEY Board (XR-L500V) –

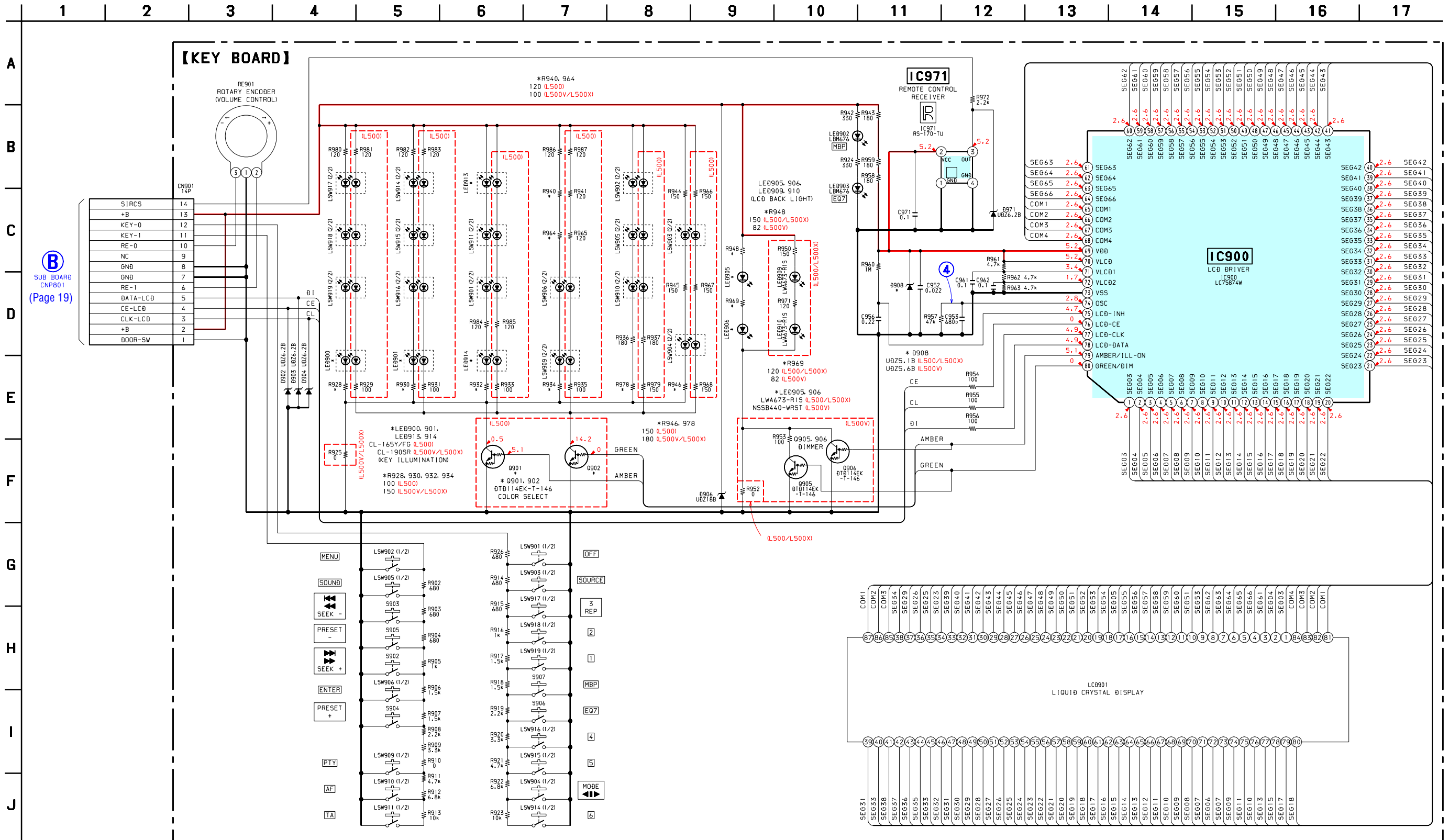


(Page 19) C SUB BOARD CNP801

• Semiconductor Location

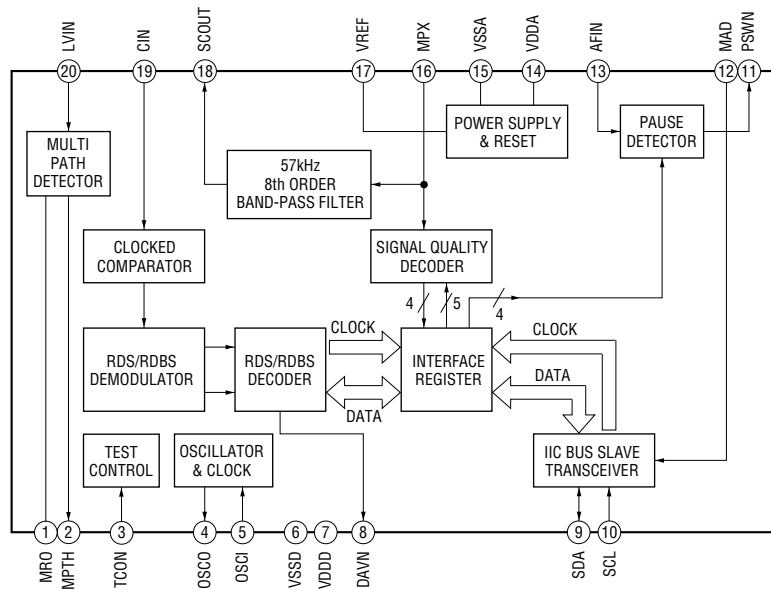
Ref. No.	Location	Ref. No.	Location
D902	G-12	LED901	C-2
D903	G-12	LED902	B-1
D904	G-11	LED903	C-1
D906	G-11	LED905	B-4
D908	G-11	LED906	B-11
D971	B-11	LED913	C-12
		LED914	B-13
IC900	G-8		
IC971	B-11	Q905	F-6
		Q906	G-6
LED900	B-2		

6-10. SCHEMATIC DIAGRAM – KEY Board – • See page 14 for Waveform.

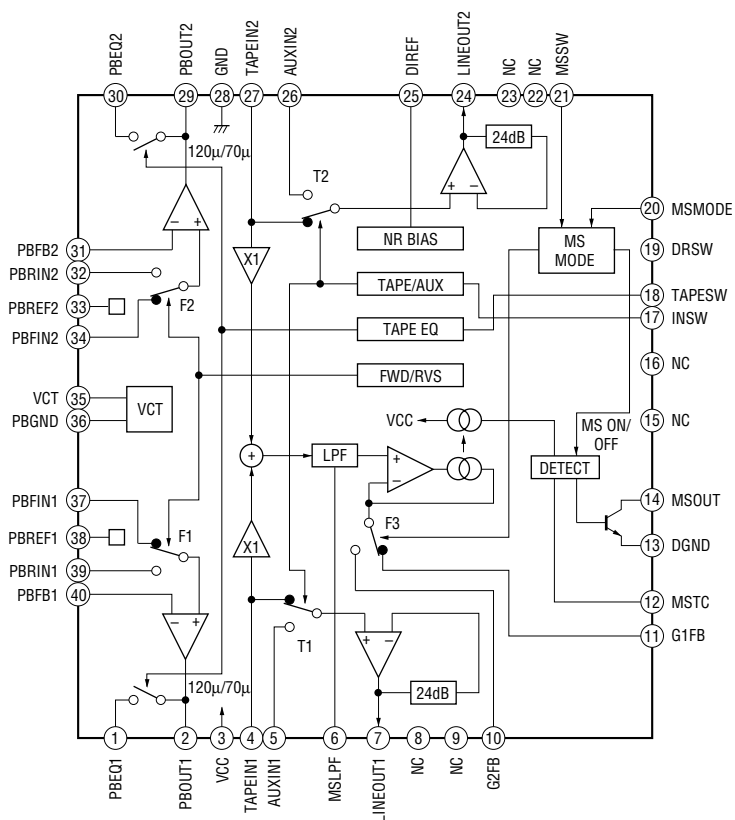


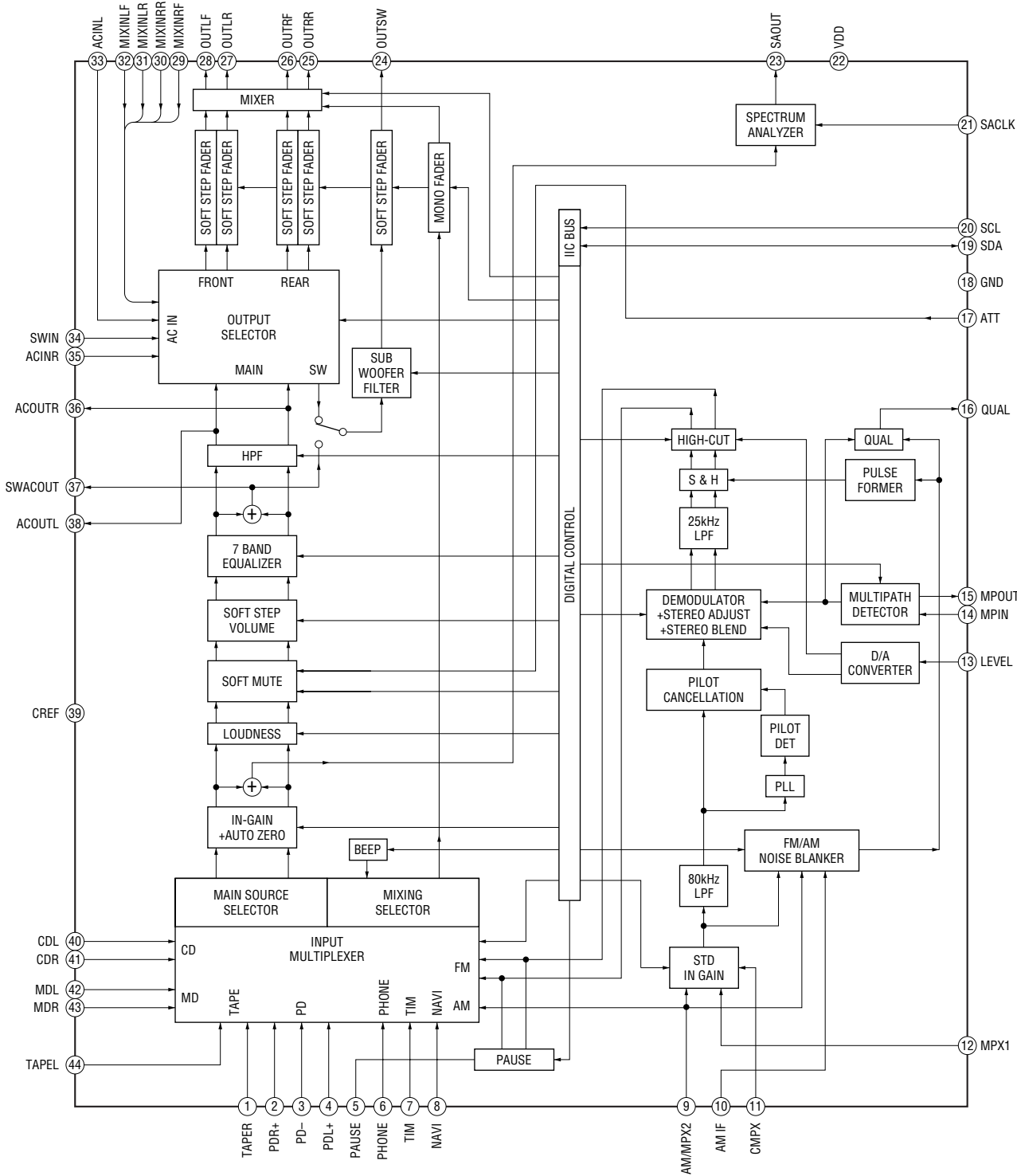
- IC Block Diagrams
- MAIN Board –

IC51 SAA6588T-118

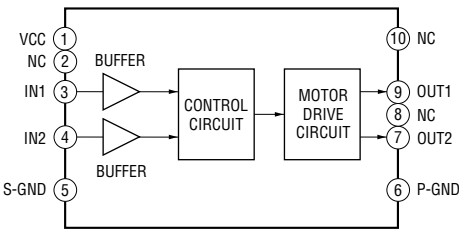


IC301 CXA2509AQ-T4

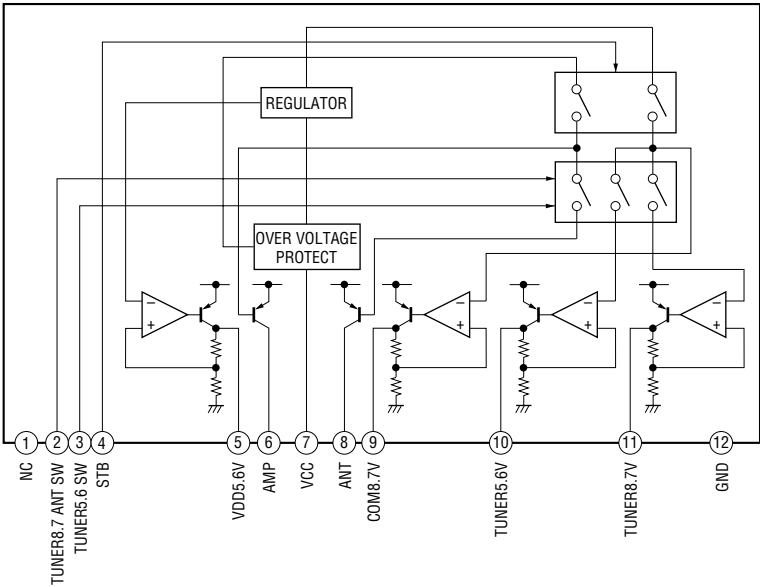




IC351 LB1930M-TLM



IC611 BA4908-V3



6-11. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC501 MN101C49KTF (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	VREF-	I	Reference voltage (0V) input terminal (for A/D converter)
2	VSM	I	FM and AM signal meter voltage detection signal input from the FM/AM tuner unit (TU1) (A/D input)
3	NIL	I	Not used (fixed at “L”)
4	KEYIN1	I	Key input terminal (A/D input) LSW902, LSW905, LSW906, LSW909 to LSW911, S902 to S905 (MENU, SOUND, ENTER, PTY, LIST, AF, TA, ►►► SEEK+, ◄◄◄ SEEK-, PRESET+, PRESET- keys input)
5	KEYIN0	I	Key input terminal (A/D input) LSW901, LSW903, LSW904, LSW914 to LSW919, S906, S907 (OFF, SOURCE, MODE ◄►, SHUF 6, 5, 4, 3 REP, 2, 1 keys input)
6	RCIN0	I	Rotary remote commander key input terminal (A/D input)
7	QUALITY	I	Noise level detection signal input at SEEK mode (A/D input)
8	MPTH	I	Multi-path detection signal input from the RDS decoder (IC51) (A/D input)
9	DSTSEL	I	Destination setting terminal “L”: XR-L500X, center voltage: XR-L500, “H”: XR-L500V
10	VREF+	I	Reference voltage (+5V) input terminal (for A/D converter)
11	VDD	—	Power supply terminal (+5V)
12	OSCOU	O	Main system clock output terminal (18.432 MHz)
13	OSCIN	I	Main system clock input terminal (18.432 MHz)
14	VSS	—	Ground terminal
15	XI	I	Sub system clock input terminal (32.768 kHz)
16	XO	O	Sub system clock output terminal (32.768 kHz)
17	MMOD	I	Selection signal of memory mode input terminal “L”: single chip mode (fixed at “L”)
18	LCDSO	O	Serial data output to the liquid crystal display driver (IC900)
19	LCDCE	O	Chip enable signal output to the liquid crystal display driver (IC900) “H” active
20	LCDCKO	O	Serial data transfer clock signal output to the liquid crystal display driver (IC900)
21	NCO	O	Not used (open)
22	SIRCS_RESET	O	SIRCS reset signal output terminal Not used (open)
23	LCUBE_SEL	I	Destination setting terminal “H”: L-cube model Fixed at “L” in this set
24	<u>SYSRST</u>	O	Reset signal output to the SONY bus interface “L”: reset Not used (pull up)
25	<u>BUSON</u>	O	Bus on/off control signal output to the SONY bus interface “L”: bus on Not used (pull up)
26	KEYACK	I	Input of acknowledge signal for the key entry Acknowledge signal is input to accept function and eject keys in the power off status On at input of “H”
27	DAVN	I	Synchronized detection signal of RDS data block input from the RDS decoder (IC51) “H” active
28	BUIN	I	Battery detection signal input terminal “L” is input at low voltage
29	SIRCS	I	SIRCS remote control signal input from the remote control receiver (IC971)
30, 31	NIL	I	Not used (fixed at “L”)
32	NIH	I	Not used (fixed at “H”)
33	<u>RESET</u>	I	System reset signal input from the reset signal generator (IC551) and reset switch (S551) “L”: reset “L” is input for several 100 msec after power on, then it changes to “H”
34	TUNON	O	Tuner system power supply on/off control signal output “H”: tuner power on
35	BEEP	O	Beep sound drive signal output to the power amplifier (IC751)
36	PW_ON	O	Main system power supply on/off control signal output “H”: power on
37	NCO	I	Not used (open)
38	<u>ACCIN</u>	I	Accessory detection signal input “L”: accessory on
39	NCO	O	Not used (open)
40	TELATT	I	Telephone attenuate signal input At input of “H”, the signal is attenuated by -20 dB

Pin No.	Pin Name	I/O	Description
41	NIH	I	Not used (fixed at "H")
42	BUSO	O	Serial data output to the SONY bus interface Not used (open)
43	BUSI	I	Serial data input from the SONY bus interface Not used (fixed at "L")
44	BUSCKO	O	Serial data transfer clock signal output to the SONY bus interface Not used (open)
45	IIC SIO	I/O	Two-way data IIC bus with the FM/AM tuner unit (TU1), RDS decoder (IC51) and electrical volume (IC331)
46	NCO	O	Not used (open)
47	IIC CKO	O	IIC bus clock signal output to the FM/AM tuner unit (TU1), RDS decoder (IC51) and electrical volume (IC331)
48	AMPON	O	Standby on/off control signal output to the power amplifier (IC751) "L": standby mode, "H": amplifier on
49	$\overline{\text{AMPATT}}$	O	Muting on/off control signal output to the power amplifier (IC751) "L": muting on
50	ATT	O	Audio line muting on/off control signal output "H": muting on
51	NCO	O	Not used (open)
52	$\overline{\text{AMSON}}$	O	Tape auto music sensor control signal output to the CXA2509AQ (IC301) "L": auto music sensor on
53	F/ROUT	O	Forward/reverse control signal output to the CXA2509AQ (IC301) "L": reverse direction, "H": forward direction
54	MTLON	O	METAL control in/out terminal At initial mode: valid/invalid selection input of METAL function (valid at "L" input) At normal mode: METAL on/off control signal output to the CXA2509AQ (IC301) (METAL on at "H" output)
55	TAPATT	O	Tape muting on/off control signal output to the CXA2509AQ (IC301) "H": muting on Active at ATA, FF/REW mode
56	NCO	O	Dolby control in/out terminal Not used (pull down)
57	AMSIN	I	Whether a music is present or not from CXA2509AQ (IC301) is detected at auto music sensor "L": music is present, "H": music is not present
58	4VPRE	I	4V PREOUT setting terminal "L": 4V PREOUT on Fixed at "H" in this set
59	$\overline{\text{VOLATT}}$	O	Pre amplifier muting on/off control signal output to the electrical volume (IC331) "L": muting on
60 to 64	NCO	O	Not used (open)
65	FL_W	I	Internal flash memory data write mode detection signal input terminal "L": data write mode Not used (open)
66	$\overline{\text{TESTIN}}$	I	Setting terminal for the test mode "L": test mode, normally fixed at "H"
67	RCIN1	I	Rotary remote commander shift key input terminal "L": shift key on
68 to 73	NCO	O	Not used (open)
74	EEP SIO	I/O	Two-way data bus for tuner EEPROM with the FM/AM tuner unit (TU1)
75	EEP CKO	I/O	Two-way bus clock signal for tuner EEPROM with the FM/AM tuner unit (TU1)
76	COLSEL	I	Setting terminal for the illumination color "L": amber, "H": green Fixed at "L" in this set
77	NCO	O	Not used (open)
78	$\overline{\text{DOORSW}}$	I	Front panel open/close detection signal input "L" is input when the front panel is closed
79	DOORIND	O	LED drive signal output of the MD disc slot illumination and  indicator (LED810, LSW810) "H": LED on "H" is output to turn on the LED when front panel is opened
80, 81	RE_IN1, RE_IN0	I	Dial pulse input of the rotary encoder (RE901) (for VOLUME control)
82	$\overline{\text{ADON}}$	O	A/D converter power control signal output terminal When the KEYACK (pin ②⑨) that controls reference voltage power for key A/D conversion input is active, "L" is output from this terminal to enable the input

Pin No.	Pin Name	I/O	Description
83	ILLON	O	Power on/off control signal output of the illumination LED and liquid crystal display driver (IC900) “H”: power on
84	REL	I	Rotation detection signal input from supply reel sensor and take-up reel sensor on the mechanism deck
85	POS3	I	Tape position (EJECT/FF/REW/REV/FWD mode) detect input from the tape operation switch on the deck mechanism POS3: “L”: REV and EJECT mode, “H”: others mode POS2: “L”: REW mode, “H”: others mode POS0: “L”: EJECT mode, “H”: others mode POS1: “L”: PLAY and FF in FWD mode, and REW in REV mode, “H”: others mode
86	POS2	I	
87	POS0	I	
88	POS1	I	
89	LMLOD	O	Motor drive signal output to the loading motor drive (IC351) “H” active (For the loading direction and forward side operation) *1
90	LMEJ	O	Motor drive signal output to the loading motor drive (IC351) “H” active (For the eject direction and reverse side operation) *1
91	TAPEON	O	Power on/off control signal output of the loading motor drive (IC351) and capstan/reel motor (M901) “H”: motor on
92	CMON	O	Capstan/reel motor (M901) drive signal output terminal “H”: motor on
93	NOSESW	I	Front panel block remove/attach detection signal input from the nose detection switch (S552) “L”: front panel is attached, “H”: front panel is removed
94	NS_MASK	O	Discharge control signal output for the noise detection circuit “H”: discharge
95	DAVSS	—	Ground terminal (for D/A converter)
96 to 99	NCO	O	Not used (open)
100	DAVCC	—	Power supply terminal (+5V) (for D/A converter)

*1 Loading motor control

Terminal \ Mode	STOP	LOADING/ FORWARD	EJECT/ REVERSE	BRAKE
LMLOD (pin ⑧)	“L”	“H”	“L”	“H”
LMEJ (pin ⑨)	“L”	“L”	“H”	“H”

SECTION 7

EXPLODED VIEWS

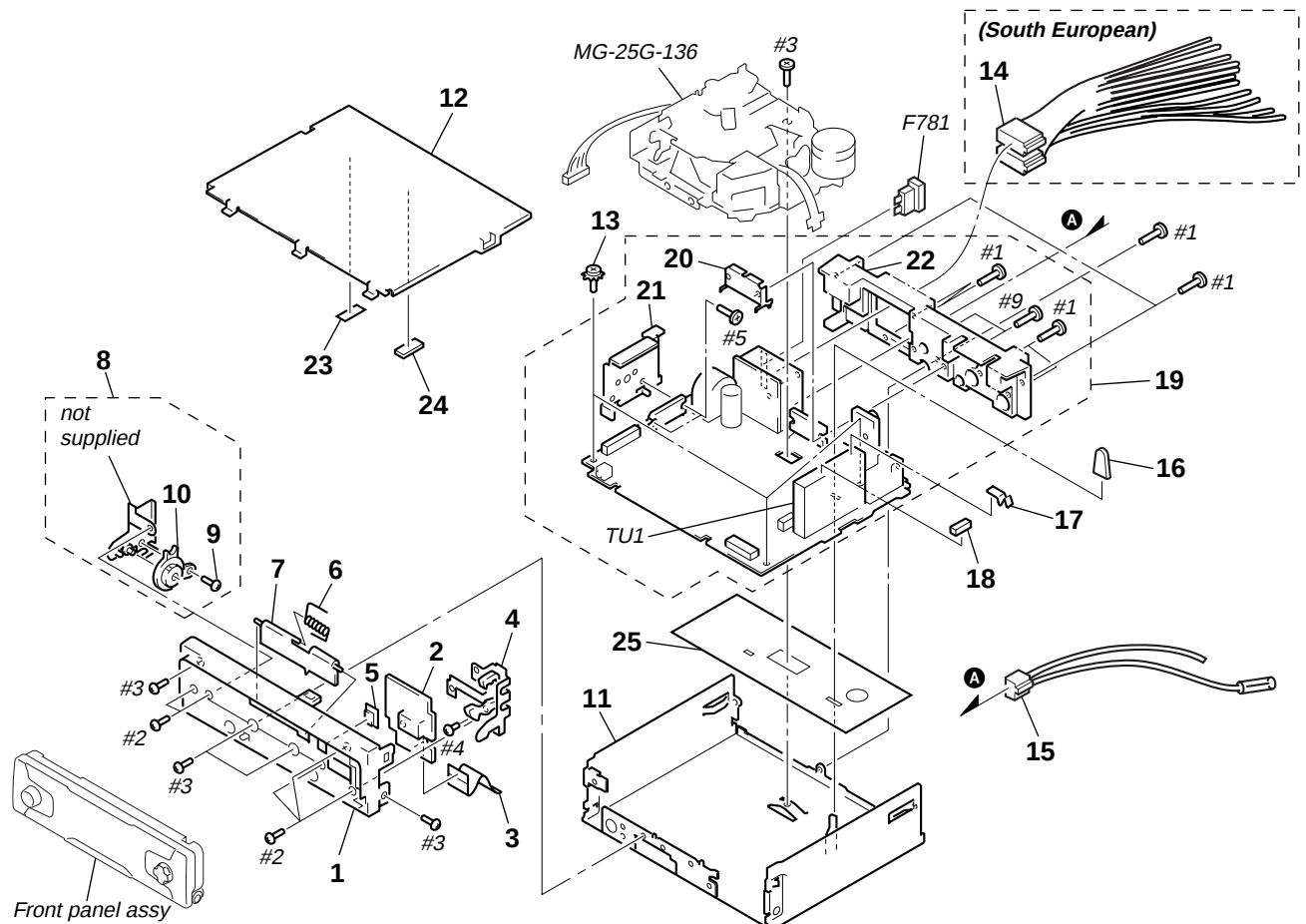
NOTE:

- XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) . . . (RED)

Parts Color Cabinet's Color

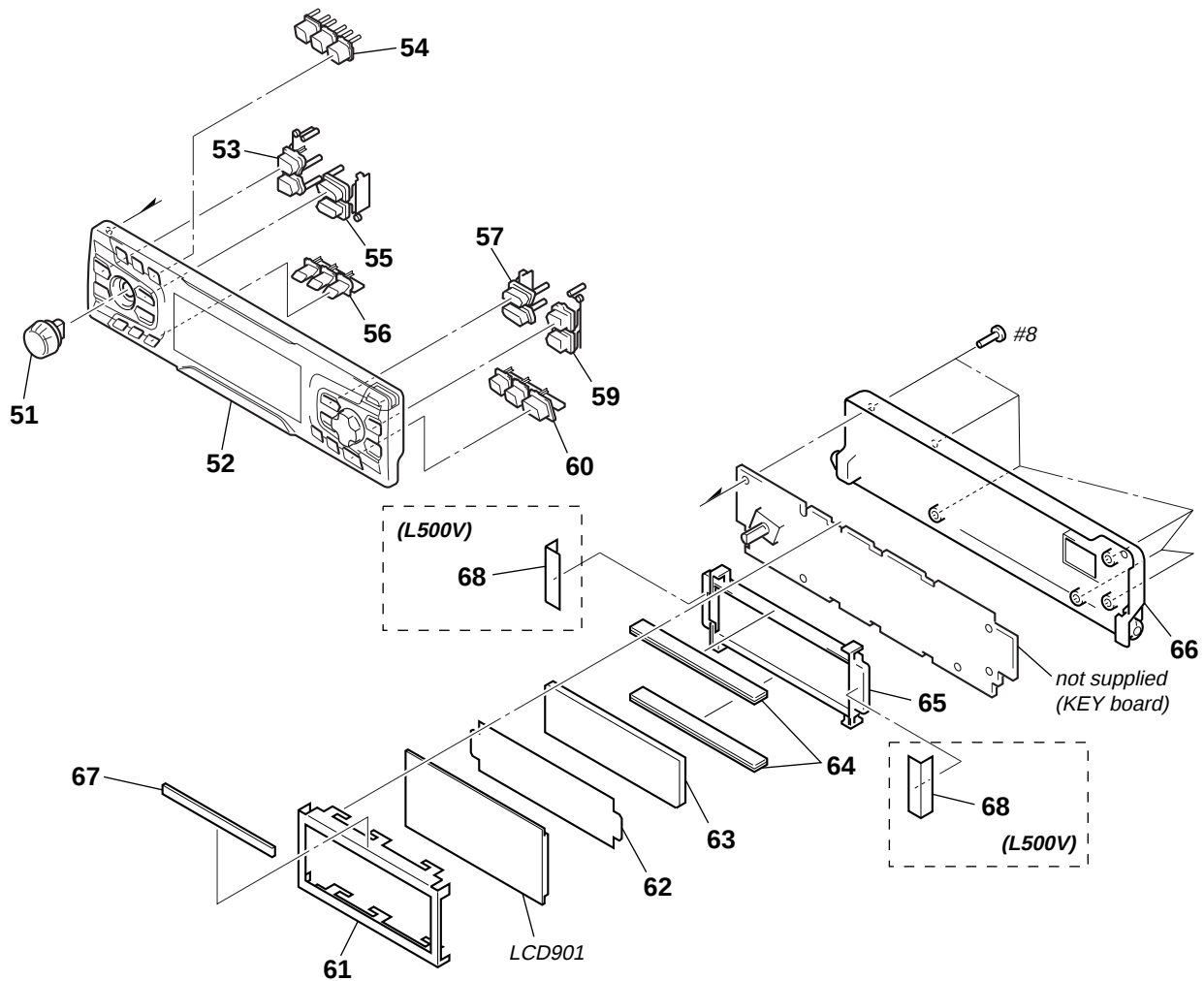
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

7-1. GENERAL SECTION



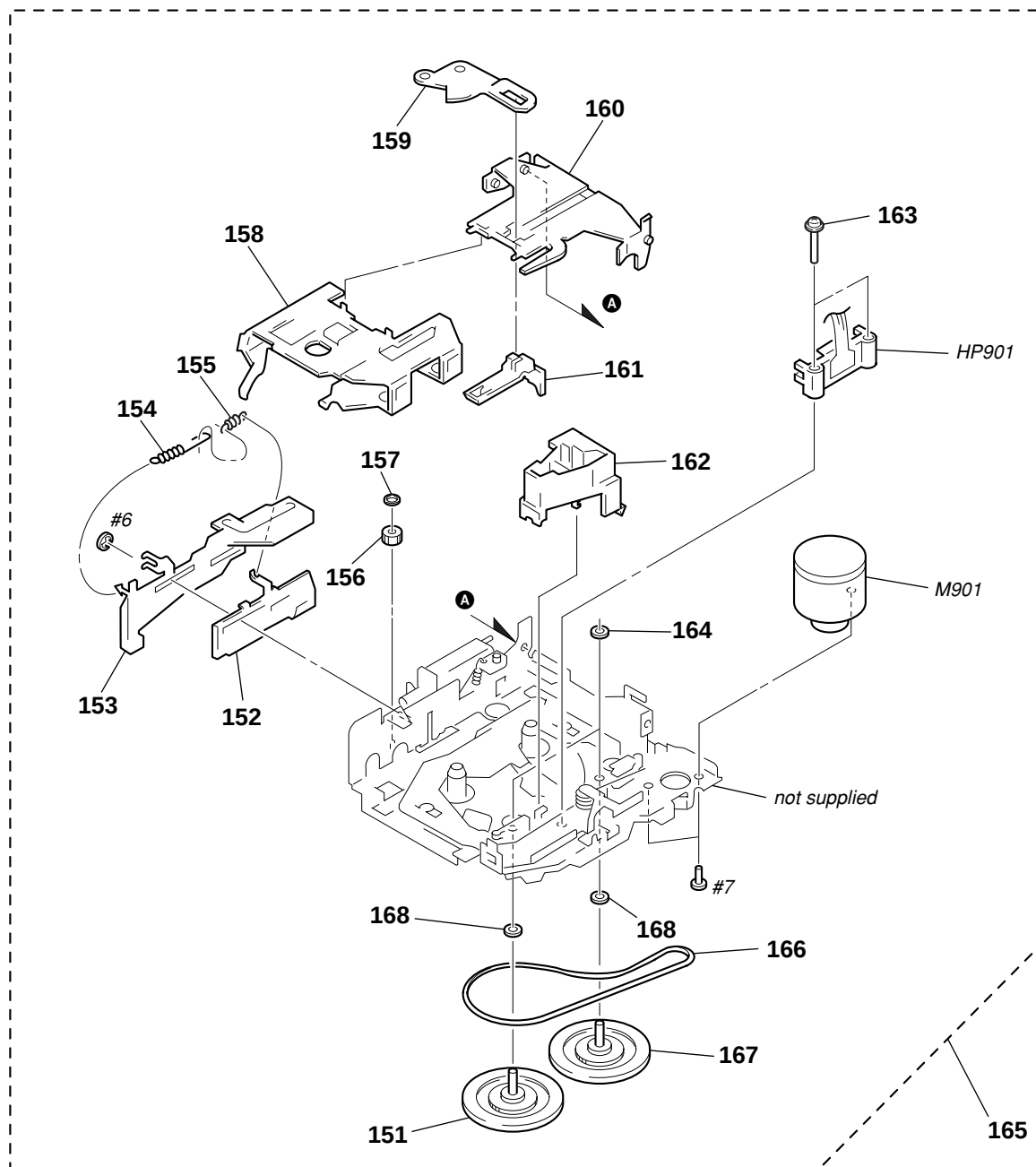
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-3378-397-1	PANEL ASSY, SUB		15	1-777-989-41	CORD (WITH CONNECTOR) (AMP REM/ATT)	
* 2	1-676-603-21	SUB BOARD		16	3-012-859-01	CAP (25), RUBBER	
3	1-792-195-11	CABLE, FLEXIBLE FLAT (14 CORE)		* 17	3-045-878-01	PLATE (TU), GROUND	
4	X-3377-621-1	LOCK ASSY		* 18	3-045-877-02	CUSHION (TU)	
5	3-040-990-01	BUTTON (EJECT) (▲)		* 19	A-3326-808-A	MAIN BOARD, COMPLETE (L500)	
6	3-935-003-01	SPRING, TORSION		* 19	A-3326-813-A	MAIN BOARD, COMPLETE (L500X)	
7	3-027-437-11	DOOR, CASSETTE		* 19	A-3326-832-A	MAIN BOARD, COMPLETE (L500V)	
8	X-3376-699-1	GEAR ASSY		* 20	3-040-998-01	BRACKET (IC)	
9	3-713-786-51	SCREW +P 2X3		* 21	3-041-262-01	HEAT SINK (REG/XR)	
10	3-030-909-01	DAMPER, OIL		* 22	3-041-014-01	HEAT SINK (ISO2P)	
* 11	3-040-994-01	CHASSIS		* 23	3-046-990-01	SPACER (COVER L)	
* 12	3-040-995-01	COVER		* 24	3-046-991-01	SPACER (COVER R)	
13	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT		* 25	3-045-828-01	INSULATED PLATE	
14	1-782-381-11	CORD (WITH CONNECTOR) (ISO P&S)		F781	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A)	
		(POWER) (South European)		TU1	A-3282-061-A	TUNER UNIT (TUX-020)	

7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3380-080-1	KNOB (VOL) ASSY (L500V/L500X)		* 61	3-223-799-01	PLATE (LCD), GROUND	
51	X-3380-081-1	KNOB (VOL) ASSY (L500)		* 62	3-223-800-01	REFLECTOR SHEET (LCD) (L500/L500X)	
52	X-3380-134-1	PANEL (SV) ASSY, FRONT (L500X)		62	3-231-293-01	REFLECTOR SHEET (LCD/V) (L500V)	
52	X-3380-136-1	PANEL (SV) ASSY, FRONT (L500)		* 63	3-223-797-01	PLATE (LCD), LIGHT GUIDE	
52	X-3380-190-1	PANEL (SV) ASSY, FRONT (L500V)		64	1-694-780-11	CONDUCTIVE BOARD, CONNECTION	
53	3-223-752-11	BUTTON (DSO/EQ7) (MBP. EQ7)		* 65	3-223-798-01	HOLDER (LCD)	
54	3-223-750-01	BUTTON (1-3) (1. 2. 3)		66	X-3380-079-1	PANEL ASSY, FRONT BACK	
55	3-223-753-01	BUTTON (SOURCE/MODE)		67	3-231-770-01	SPACER (WINDOW)	
56	3-223-751-01	BUTTON (4-6) (4. 5. 6)		68	3-231-648-01	SHEET (SHIELD) (L500V)	
57	3-223-791-01	BUTTON (MENU/SOUND)		LCD901	1-804-292-21	DISPLAY PANEL, LIQUID CRYSTAL (L500)	
59	3-223-790-11	BUTTON (LIST/ENTER) (PTY. ENTER)		LCD901	1-804-292-41	DISPLAY PANEL, LIQUID CRYSTAL (L500X)	
60	3-223-792-01	BUTTON (AF/TA/OFF)		LCD901	1-804-293-11	DISPLAY PANEL, LIQUID CRYSTAL (L500V)	

7-3. MECHANISM DECK SECTION (MG-25G-136)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	A-3291-667-A	CLUTCH (FR) ASSY		161	3-933-346-01	CATCHER	
* 152	3-019-130-01	LEVER (LDG-A)		162	3-933-344-01	GUIDE (C)	
* 153	3-019-131-01	LEVER (LDG-B)		163	3-014-798-01	SCREW (HEAD), SPECIAL	
154	3-020-539-01	SPRING (LD-1), TENSION		164	3-364-151-01	WASHER	
155	3-020-540-01	SPRING (LD-2), TENSION		165	A-3220-610-A	MECHANISM DECK ASSY	
156	3-020-542-01	GEAR (LOADING FT)		166	3-017-302-01	BELT (25)	
157	3-341-753-11	WASHER, POLYETHYLENE		167	3-026-636-01	FLYWHEEL (F)	
158	3-020-533-01	HOUSING		168	3-701-437-21	WASHER	
* 159	3-020-532-01	ARM (SUCTION)		HP901	1-500-196-21	HEAD, MAGNETIC (PLAYBACK)	
160	3-020-534-01	HANGER		M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)	

SECTION 8
ELECTRICAL PARTS LIST

KEY

NOTE:

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		KEY BOARD *****				< LED >	
	1-694-780-11	CONDUCTIVE BOARD, CONNECTION		LED900	8-719-061-16	LED CL-190SR-CD-T (KEY ILLUMINATION) (L500V/L500X)	
*	3-223-797-01	PLATE (LCD), LIGHT GUIDE		LED900	8-719-082-91	LED CL-165Y/FG-D-T (KEY ILLUMINATION) (L500)	
*	3-223-798-01	HOLDER (LCD)		LED901	8-719-061-16	LED CL-190SR-CD-T (KEY ILLUMINATION) (L500V/L500X)	
*	3-223-799-01	PLATE (LCD), GROUND		LED901	8-719-082-91	LED CL-165Y/FG-D-T (KEY ILLUMINATION) (L500)	
*	3-223-800-01	REFLECTOR SHEET (LCD) (L500/L500X)		LED902	8-719-082-81	LED LBM676-J2K2 (MBP)	
	3-231-293-01	REFLECTOR SHEET (LCD/V) (L500V)		LED903	8-719-082-81	LED LBM676-J2K2 (EQ7)	
	3-231-648-01	SHEET (SHIELD) (L500V)		LED905	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT) (L500/L500X)	
	3-231-770-01	SPACER (WINDOW)		LED905	8-719-084-37	LED NSSB440-WRS-THR (LCD BACK LIGHT) (L500V)	
		< CAPACITOR >		LED906	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT) (L500/L500X)	
C952	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V		LED906	8-719-084-37	LED NSSB440-WRS-THR (LCD BACK LIGHT) (L500V)	
C953	1-115-412-11	CERAMIC CHIP 680PF 5% 25V					
C956	1-115-467-11	CERAMIC CHIP 0.22uF 10% 10V		LED909	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT) (L500/L500X)	
C961	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		LED910	8-719-078-19	LED LWA673-R1S2*1 (LCD BACK LIGHT) (L500/L500X)	
C962	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		LED913	8-719-061-16	LED CL-190SR-CD-T (KEY ILLUMINATION) (L500V/L500X)	
		< CONNECTOR >		LED913	8-719-082-91	LED CL-165Y/FG-D-T (KEY ILLUMINATION) (L500)	
CN901	1-794-065-22	PLUG, CONNECTOR 14P		LED914	8-719-061-16	LED CL-190SR-CD-T (KEY ILLUMINATION) (L500V/L500X)	
		< DIODE >		LED914	8-719-082-91	LED CL-165Y/FG-D-T (KEY ILLUMINATION) (L500)	
D902	8-719-056-82	DIODE UDZ-TE-17-6.2B				< SWITCH >	
D903	8-719-056-82	DIODE UDZ-TE-17-6.2B		LSW901	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (OFF) (L500V/L500X)	
D904	8-719-056-82	DIODE UDZ-TE-17-6.2B		LSW901	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (OFF) (L500)	
D906	8-719-056-93	DIODE UDZ-TE-17-18B		LSW902	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (MENU) (L500V/L500X)	
D908	8-719-158-15	DIODE UDZ-TE-17-5.6B (L500V)		LSW902	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (MENU) (L500)	
		< IC >		LSW903	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (SOURCE) (L500V/L500X)	
D908	8-719-976-99	DIODE UDZ-TE-17-5.1B (L500/L500X)					
D971	8-719-056-82	DIODE UDZ-TE-17-6.2B		LSW903	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (SOURCE) (L500)	
		< LIQUID CRYSTAL DISPLAY >					
LCD901	1-804-292-21	DISPLAY PANEL, LIQUID CRYSTAL (L500)					
LCD901	1-804-292-41	DISPLAY PANEL, LIQUID CRYSTAL (L500X)					
LCD901	1-804-293-11	DISPLAY PANEL, LIQUID CRYSTAL (L500V)					

KEY

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
LSW904	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (MODE ◀▶) (L500V/L500X)		R914	1-216-819-11	METAL CHIP 680 5%	1/16W
LSW904	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (MODE ▶◀) (L500)		R915	1-216-819-11	METAL CHIP 680 5%	1/16W
LSW905	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (SOUND) (L500V/L500X)		R916	1-216-821-11	METAL CHIP 1K 5%	1/16W
LSW905	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (SOUND) (L500)		R917	1-216-823-11	METAL CHIP 1.5K 5%	1/16W
LSW906	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (ENTER) (L500V/L500X)		R918	1-216-823-11	METAL CHIP 1.5K 5%	1/16W
LSW906	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (ENTER) (L500)		R919	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
LSW909	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (PTY) (L500V/L500X)		R920	1-216-827-11	METAL CHIP 3.3K 5%	1/16W
LSW909	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (PTY) (L500)		R921	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
LSW910	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (AF) (L500V/L500X)		R922	1-216-831-11	METAL CHIP 6.8K 5%	1/16W
LSW910	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (AF) (L500)		R923	1-216-833-11	METAL CHIP 10K 5%	1/16W
LSW911	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (TA) (L500V/L500X)		R924	1-216-037-00	METAL CHIP 330 5%	1/10W
LSW911	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (TA) (L500)		R925	1-216-864-11	SHORT 0 (L500V/L500X)	
LSW914	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (6) (L500V/L500X)		R926	1-216-819-11	METAL CHIP 680 5%	1/16W
LSW914	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (6) (L500)		R928	1-216-025-11	RES-CHIP 100 5%	1/10W (L500)
LSW915	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (5) (L500V/L500X)		R928	1-216-029-00	METAL CHIP 150 5%	1/10W (L500V/L500X)
LSW915	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (5) (L500)		R929	1-216-025-11	RES-CHIP 100 5%	1/10W (L500)
LSW916	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (4) (L500V/L500X)		R930	1-216-025-11	RES-CHIP 100 5%	1/10W (L500)
LSW916	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (4) (L500)		R930	1-216-029-00	METAL CHIP 150 5%	1/10W (L500V/L500X)
LSW917	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (3, REP) (L500V/L500X)		R931	1-216-025-11	RES-CHIP 100 5%	1/10W (L500)
LSW917	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (3, REP) (L500)		R932	1-216-025-11	RES-CHIP 100 5%	1/10W (L500)
LSW918	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (2) (L500V/L500X)		R932	1-216-029-00	METAL CHIP 150 5%	1/10W (L500V/L500X)
LSW918	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (2) (L500)		R933	1-216-025-11	RES-CHIP 100 5%	1/10W (L500)
LSW919	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (1) (L500V/L500X)		R934	1-216-025-11	RES-CHIP 100 5%	1/10W (L500)
LSW919	1-786-112-11	SWITCH, KEY BOARD (WITH LED) (1) (L500)		R934	1-216-029-00	METAL CHIP 150 5%	1/10W (L500V/L500X)
< TRANSISTOR >				R935	1-216-025-11	RES-CHIP 100 5%	1/10W (L500)
Q901	8-729-904-75	TRANSISTOR DTD114EK-T-146 (L500)		R936	1-216-031-00	METAL CHIP 180 5%	1/10W
Q902	8-729-904-75	TRANSISTOR DTD114EK-T-146 (L500)		R937	1-216-031-00	METAL CHIP 180 5%	1/10W (L500)
Q905	8-729-904-75	TRANSISTOR DTD114EK-T-146 (L500V)		R940	1-216-809-11	METAL CHIP 100 5%	1/16W (L500V/L500X)
Q906	8-729-904-75	TRANSISTOR DTD114EK-T-146 (L500V)		R940	1-216-810-11	METAL CHIP 120 5%	1/16W (L500)
< RESISTOR >				R941	1-216-810-11	METAL CHIP 120 5%	1/16W (L500)
R902	1-216-819-11	METAL CHIP 680 5%	1/16W	R942	1-216-037-00	METAL CHIP 330 5%	1/10W
R903	1-216-819-11	METAL CHIP 680 5%	1/16W	R943	1-216-031-00	METAL CHIP 180 5%	1/10W
R904	1-216-819-11	METAL CHIP 680 5%	1/16W	R944	1-216-029-00	METAL CHIP 150 5%	1/10W
R905	1-216-821-11	METAL CHIP 1K 5%	1/16W	R945	1-216-029-00	METAL CHIP 150 5%	1/10W
R906	1-216-823-11	METAL CHIP 1.5K 5%	1/16W	R946	1-216-029-00	METAL CHIP 150 5%	1/10W (L500)
R907	1-216-823-11	METAL CHIP 1.5K 5%	1/16W	R946	1-216-031-00	METAL CHIP 180 5%	1/10W (L500V/L500X)
R908	1-216-825-11	METAL CHIP 2.2K 5%	1/16W	R948	1-216-023-00	METAL CHIP 82 5%	1/10W (L500V)
R909	1-216-827-11	METAL CHIP 3.3K 5%	1/16W	R948	1-216-029-00	METAL CHIP 150 5%	1/10W (L500/L500X)
R910	1-216-864-11	SHORT 0		R950	1-216-029-00	METAL CHIP 150 5%	1/10W (L500/L500X)
R911	1-216-829-11	METAL CHIP 4.7K 5%	1/16W	R952	1-216-864-11	SHORT 0 (L500/L500X)	
R912	1-216-831-11	METAL CHIP 6.8K 5%	1/16W				
R913	1-216-833-11	METAL CHIP 10K 5%	1/16W				

XR-L500/L500V/L500X

KEY	MAIN
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Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R953	1-216-025-00	METAL CHIP	100	5%	1/10W (L500V)	S907	1-786-175-21	SWITCH, TACT (WITH LED) (MBP)	*****		
R954	1-216-809-11	METAL CHIP	100	5%	1/16W	*	A-3326-808-A	MAIN BOARD, COMPLETE (L500)			
R955	1-216-809-11	METAL CHIP	100	5%	1/16W	*	A-3326-813-A	MAIN BOARD, COMPLETE (L500X)			
R956	1-216-809-11	METAL CHIP	100	5%	1/16W	*	A-3326-832-A	MAIN BOARD, COMPLETE (L500V)	*****		
R957	1-216-841-11	METAL CHIP	47K	5%	1/16W						
R958	1-216-031-00	METAL CHIP	180	5%	1/10W						
R959	1-216-031-00	METAL CHIP	180	5%	1/10W						
R960	1-216-857-11	METAL CHIP	1M	5%	1/16W						
R961	1-216-829-11	METAL CHIP	4.7K	5%	1/16W						
R962	1-216-829-11	METAL CHIP	4.7K	5%	1/16W						
R963	1-216-829-11	METAL CHIP	4.7K	5%	1/16W						
R964	1-216-809-11	METAL CHIP	100	5%	1/16W (L500V/L500X)						
R964	1-216-810-11	METAL CHIP	120	5%	1/16W (L500)				< CAPACITOR >		
R965	1-216-810-11	METAL CHIP	120	5%	1/16W (L500)	C1	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
R966	1-216-029-00	METAL CHIP	150	5%	1/10W (L500)	C2	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
R967	1-216-029-00	METAL CHIP	150	5%	1/10W (L500)	C3	1-104-664-11	ELECT	47uF	20%	16V
R968	1-216-029-00	METAL CHIP	150	5%	1/10W (L500)	C4	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
R969	1-216-023-00	METAL CHIP	82	5%	1/10W (L500V)	C5	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
R969	1-216-027-00	METAL CHIP	120	5%	1/10W (L500/L500X)	C6	1-124-589-11	ELECT	47uF	20%	16V
R971	1-216-027-00	METAL CHIP	120	5%	1/10W (L500/L500X)	C7	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
R972	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	C13	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
R978	1-216-029-00	METAL CHIP	150	5%	1/10W (L500)	C14	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
R978	1-216-031-00	METAL CHIP	180	5%	1/10W (L500V/L500X)	C22	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
R979	1-216-029-00	METAL CHIP	150	5%	1/10W (L500)	C23	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
R980	1-216-027-00	METAL CHIP	120	5%	1/10W	C24	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
R981	1-216-027-00	METAL CHIP	120	5%	1/10W (L500)	C52	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
R982	1-216-027-00	METAL CHIP	120	5%	1/10W	C53	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
R983	1-216-027-00	METAL CHIP	120	5%	1/10W (L500)	C54	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
R984	1-216-027-00	METAL CHIP	120	5%	1/10W	C55	1-124-589-11	ELECT	47uF	20%	16V
R985	1-216-027-00	METAL CHIP	120	5%	1/10W (L500)	C57	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
R986	1-216-027-00	METAL CHIP	120	5%	1/10W	C58	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
R987	1-216-027-00	METAL CHIP	120	5%	1/10W (L500)	C59	1-164-505-11	CERAMIC CHIP	2.2uF		16V
		< ROTARY ENCODER >				C60	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
RE901	1-476-507-11	ENCODER, ROTARY (VOLUME CONTROLL)				C61	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
		< SWITCH >				C62	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
S902	1-786-175-21	SWITCH, TACT (WITH LED) (▶▶▶ ▶▶ SEEK +)				C63	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
S903	1-786-175-21	SWITCH, TACT (WITH LED) (◀◀◀ ◀◀ SEEK -)				C64	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
S904	1-786-175-21	SWITCH, TACT (WITH LED) (PRESET +)				C90	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
S905	1-786-175-21	SWITCH, TACT (WITH LED) (PRESET -)				C92	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
S906	1-786-175-21	SWITCH, TACT (WITH LED) (EQ7)				C93	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
						C94	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
						C95	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
						C96	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
						C97	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
						C98	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
						C99	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
						C101	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
						C102	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
						C103	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
						C104	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
						C105	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
						C106	1-126-160-11	ELECT	1uF	20%	50V
						C171	1-124-233-11	ELECT	10uF	20%	16V
						C174	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
						C175	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
						C181	1-124-233-11	ELECT	10uF	20%	16V

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C183	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C602	1-109-982-11	CERAMIC CHIP	1uF	10%	10V (L500V)
C184	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V						
C185	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	C611	1-126-157-11	ELECT	10uF	20%	16V
C191	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	C615	1-126-157-11	ELECT	10uF	20%	16V
C201	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	C616	1-126-157-11	ELECT	10uF	20%	16V
C202	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	C617	1-126-157-11	ELECT	10uF	20%	16V
C203	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	C622	1-124-589-11	ELECT	47uF	20%	16V
C204	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V	C752	1-136-165-00	FILM	0.1uF	5%	50V
C205	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C754	1-124-233-11	ELECT	10uF	20%	16V
C206	1-126-160-11	ELECT	1uF	20%	50V	C755	1-126-157-11	ELECT	10uF	20%	16V
C208	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	C781	1-107-885-31	ELECT	3300uF	20%	16V
C271	1-124-233-11	ELECT	10uF	20%	16V	C782	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C274	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	C783	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C275	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	C785	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C281	1-124-233-11	ELECT	10uF	20%	16V	C901	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C283	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C902	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C284	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	C904	1-164-489-11	CERAMIC	0.22uF	10%	16V
C285	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	C905	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C301	1-124-234-00	ELECT	22uF	20%	16V	C907	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C302	1-131-353-00	TANTALUM	10uF	10%	35V	C908	1-163-263-00	CERAMIC CHIP	330PF	5%	50V
C303	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C909	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C304	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V						
C305	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	< CONNECTOR >					
C306	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	CN301	1-785-694-11	CONNECTOR, FFC/FPC 7P			
C307	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	* CN351	1-506-995-11	PIN, CONNECTOR (PC BOARD) 13P			
C309	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	CN701	1-784-456-11	CONNECTOR, FFC/FPC 14P			
C310	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	CN781	1-794-070-12	PIN, CONNECTOR (ISO)			
C311	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	< JACK >					
C312	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	CNJ151	1-774-698-11	JACK, PIN 2P (AUDIO OUT REAR)			
C313	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	< DIODE >					
C332	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	D1	8-719-056-65	DIODE 1SS372-TE85L			
C333	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	D51	8-719-073-01	DIODE MA111-TX			
C335	1-124-233-11	ELECT	10uF	20%	16V	D55	8-719-073-01	DIODE MA111-TX			
C336	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	D90	8-719-073-01	DIODE MA111-TX			
C337	1-124-584-00	ELECT	100uF	20%	10V	D91	8-719-073-01	DIODE MA111-TX			
C340	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	D92	8-719-976-99	DIODE UDZ-TE-17-5.1B			
C351	1-165-319-11	CERAMIC CHIP	0.1uF		50V	D351	8-719-977-22	DIODE UDZ-TE-17-9.1B			
C352	1-165-319-11	CERAMIC CHIP	0.1uF		50V	D352	8-719-970-02	DIODE 1SR139-400T-32			
C353	1-163-031-11	CERAMIC CHIP	0.01uF		50V	D502	8-719-056-83	DIODE UDZ-TE-17-6.8B			
C354	1-124-233-11	ELECT	10uF	20%	16V	D552	8-719-067-56	DIODE MA112-TX			
C355	1-124-234-00	ELECT	22uF	20%	16V	D553	8-719-073-01	DIODE MA111-TX			
C356	1-126-934-11	ELECT	220uF	20%	16V	D591	8-719-056-84	DIODE UDZ-TE-17-7.5B			
C357	1-165-319-11	CERAMIC CHIP	0.1uF		50V	D592	8-719-056-93	DIODE UDZ-TE-17-18B			
C358	1-163-031-11	CERAMIC CHIP	0.01uF		50V	D601	8-719-056-88	DIODE UDZ-TE-17-11B (L500V)			
C501	1-124-589-11	ELECT	47uF	20%	16V	D610	8-719-970-02	DIODE 1SR139-400T-32			
C503	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	D611	8-719-970-02	DIODE 1SR139-400T-32			
C504	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	D614	8-719-970-02	DIODE 1SR139-400T-32			
C505	1-163-233-11	CERAMIC CHIP	18PF	5%	50V	D622	8-719-073-01	DIODE MA111-TX			
C506	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	D701	8-719-056-83	DIODE UDZ-TE-17-6.8B			
C507	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	D702	8-719-056-83	DIODE UDZ-TE-17-6.8B			
C511	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	D703	8-719-056-83	DIODE UDZ-TE-17-6.8B			
C551	1-125-710-11	DOUBLE LAYER	0.1F		5.5V	D704	8-719-056-83	DIODE UDZ-TE-17-6.8B			
C552	1-126-934-11	ELECT	220uF	20%	16V	D705	8-719-056-83	DIODE UDZ-TE-17-6.8B			
C553	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	D706	8-719-056-93	DIODE UDZ-TE-17-18B			
C571	1-126-160-11	ELECT	1uF	20%	50V	D707	8-719-056-83	DIODE UDZ-TE-17-6.8B			
C601	1-109-982-11	CERAMIC CHIP	1uF	10%	10V (L500V)						

XR-L500/L500V/L500X

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D708	8-719-056-83	DIODE UDZ-TE-17-6.8B		JC502	1-216-296-11	SHORT	0
D709	8-719-056-83	DIODE UDZ-TE-17-6.8B		JC558	1-216-295-11	SHORT	0
D710	8-719-056-83	DIODE UDZ-TE-17-6.8B		JC565	1-216-295-11	SHORT	0
D711	8-719-056-83	DIODE UDZ-TE-17-6.8B					
D712	8-719-056-83	DIODE UDZ-TE-17-6.8B		JC588	1-216-295-11	SHORT	0
				JC622	1-216-295-11	SHORT	0
D721	8-719-079-42	DIODE 1ZB22 (TPA3)		JC623	1-216-295-11	SHORT	0
D722	8-719-079-42	DIODE 1ZB22 (TPA3)		JC751	1-216-296-11	SHORT	0
D723	8-719-079-42	DIODE 1ZB22 (TPA3)		JC752	1-216-296-11	SHORT	0
D724	8-719-079-42	DIODE 1ZB22 (TPA3)					
D731	8-719-079-42	DIODE 1ZB22 (TPA3)		JC753	1-216-295-11	SHORT	0
				JC754	1-216-296-11	SHORT	0
D732	8-719-079-42	DIODE 1ZB22 (TPA3)		JC755	1-216-296-11	SHORT	0
D733	8-719-079-42	DIODE 1ZB22 (TPA3)		JC759	1-216-296-11	SHORT	0
D734	8-719-079-42	DIODE 1ZB22 (TPA3)		JC761	1-216-295-11	SHORT	0
D781	8-719-049-38	DIODE 1N5404TU					
< IC >				JC762	1-216-295-11	SHORT	0
IC51	8-759-492-59	IC SAA6588T-118		JC763	1-216-296-11	SHORT	0
IC90	8-759-100-96	IC uPC4558G2-E1		JC764	1-216-296-11	SHORT	0
IC301	8-752-079-78	IC CXA2509AQ-T4		JC765	1-216-295-11	SHORT	0
IC331	8-759-827-13	IC TDA7406T					
IC351	8-759-527-33	IC LB1930M-TLM		JC766	1-216-296-11	SHORT	0
				JC767	1-216-295-11	SHORT	0
				JC902	1-216-295-11	SHORT	0
IC501	8-759-828-85	IC MN101C49KTF		< COIL >			
IC551	8-759-682-69	IC XC61CN4302MR		L501	1-410-501-11	INDUCTOR	2.2uH
IC611	8-759-661-47	IC BA4908-V3		L502	1-410-501-11	INDUCTOR	2.2uH
IC751	8-759-827-14	IC TA8268AH		L781	1-419-476-11	INDUCTOR	250uH
< JACK >				< TRANSISTOR >			
J1	1-815-185-11	JACK (ANT) (FM/AM ANTENNA IN)		Q90	8-729-027-59	TRANSISTOR	DTC144EKA-T146
J561	1-566-822-41	JACK (REMOTE IN)		Q91	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
< SHORT >				Q171	8-729-920-21	TRANSISTOR	DTC314TK-T-146
JC3	1-216-295-11	SHORT	0	Q181	8-729-920-21	TRANSISTOR	DTC314TK-T-146
JC4	1-216-296-11	SHORT	0	Q271	8-729-920-21	TRANSISTOR	DTC314TK-T-146
JC5	1-216-296-11	SHORT	0				
JC6	1-216-296-11	SHORT	0	Q281	8-729-920-21	TRANSISTOR	DTC314TK-T-146
JC7	1-216-296-11	SHORT	0	Q351	8-729-015-11	TRANSISTOR	2SD1802FAST-TL
				Q352	8-729-047-76	TRANSISTOR	FMC2A-T148
JC8	1-216-296-11	SHORT	0	Q353	8-729-900-53	TRANSISTOR	DTC114EKA-T146
JC9	1-216-296-11	SHORT	0	Q354	8-729-106-60	TRANSISTOR	2SB1132-T100-R
JC10	1-216-295-11	SHORT	0				
JC11	1-216-295-11	SHORT	0	Q551	8-729-027-23	TRANSISTOR	DTA114EKA-T146
JC12	1-216-296-11	SHORT	0	Q571	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
				Q583	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
JC15	1-216-296-11	SHORT	0	Q591	1-801-806-11	TRANSISTOR	DTC144EKA-T146
JC17	1-216-296-11	SHORT	0	Q592	1-801-806-11	TRANSISTOR	DTC144EKA-T146
JC18	1-216-295-11	SHORT	0				
JC51	1-216-296-11	SHORT	0	Q595	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR
JC53	1-216-296-11	SHORT	0	Q601	8-729-106-60	TRANSISTOR	2SB1132-T100-R
							(L500/L500X)
JC90	1-216-295-11	SHORT	0	Q602	8-729-900-53	TRANSISTOR	DTC114EKA-T146
JC92	1-216-295-11	SHORT	0				(L500/L500X)
JC301	1-216-295-11	SHORT	0	Q604	8-729-423-99	TRANSISTOR	2SD2137-OP-TA (L500V)
JC302	1-216-295-11	SHORT	0	Q605	8-729-047-76	TRANSISTOR	FMC2A-T148 (L500V)
JC331	1-216-295-11	SHORT	0				
JC332	1-216-296-11	SHORT	0	Q621	8-729-027-23	TRANSISTOR	DTA114EKA-T146
JC333	1-216-296-11	SHORT	0	Q622	8-729-900-53	TRANSISTOR	DTC114EKA-T146
JC351	1-216-295-11	SHORT	0	Q631	8-729-047-76	TRANSISTOR	FMC2A-T148
JC352	1-216-295-11	SHORT	0	< RESISTOR >			
JC353	1-216-295-11	SHORT	0	R1	1-216-025-11	RES-CHIP	100 5% 1/10W
				R2	1-216-025-11	RES-CHIP	100 5% 1/10W
JC354	1-216-295-11	SHORT	0	R3	1-216-081-00	METAL CHIP	22K 5% 1/10W
JC500	1-216-295-11	SHORT	0	R12	1-216-089-11	RES-CHIP	47K 5% 1/10W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R13	1-216-097-11	RES-CHIP	100K	5%	1/10W	R502	1-216-049-11	RES-CHIP	1K	5%	1/10W
R21	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	R507	1-216-049-11	RES-CHIP	1K	5%	1/10W
R51	1-216-025-11	RES-CHIP	100	5%	1/10W	R508	1-216-049-11	RES-CHIP	1K	5%	1/10W
R52	1-216-025-11	RES-CHIP	100	5%	1/10W	R509	1-216-049-11	RES-CHIP	1K	5%	1/10W
R53	1-216-113-00	METAL CHIP	470K	5%	1/10W	R511	1-216-073-00	METAL CHIP	10K	5%	1/10W
R54	1-216-049-11	RES-CHIP	1K	5%	1/10W	R513	1-216-073-00	METAL CHIP	10K	5%	1/10W
R55	1-216-081-00	METAL CHIP	22K	5%	1/10W	R514	1-216-097-11	RES-CHIP	100K	5%	1/10W
R56	1-216-041-00	METAL CHIP	470	5%	1/10W	R515	1-216-097-11	RES-CHIP	100K	5%	1/10W
R59	1-216-001-00	METAL CHIP	10	5%	1/10W	R516	1-216-097-11	RES-CHIP	100K	5%	1/10W
R60	1-216-001-00	METAL CHIP	10	5%	1/10W	R517	1-216-097-11	RES-CHIP	100K	5%	1/10W
R91	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R518	1-216-097-11	RES-CHIP	100K	5%	1/10W
R92	1-216-041-00	METAL CHIP	470	5%	1/10W	R519	1-216-097-11	RES-CHIP	100K	5%	1/10W
R93	1-216-097-11	RES-CHIP	100K	5%	1/10W	R520	1-216-097-11	RES-CHIP	100K	5%	1/10W
R95	1-216-121-11	RES-CHIP	1M	5%	1/10W	R521	1-216-049-11	RES-CHIP	1K	5%	1/10W
R96	1-216-025-11	RES-CHIP	100	5%	1/10W	R522	1-216-049-11	RES-CHIP	1K	5%	1/10W
R97	1-216-073-00	METAL CHIP	10K	5%	1/10W	R523	1-216-049-11	RES-CHIP	1K	5%	1/10W
R98	1-216-073-00	METAL CHIP	10K	5%	1/10W	R526	1-216-097-11	RES-CHIP	100K	5%	1/10W
R99	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R527	1-216-097-11	RES-CHIP	100K	5%	1/10W
R100	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R528	1-216-097-11	RES-CHIP	100K	5%	1/10W
R101	1-216-041-00	METAL CHIP	470	5%	1/10W	R529	1-216-097-11	RES-CHIP	100K	5%	1/10W
R102	1-216-109-00	METAL CHIP	330K	5%	1/10W	R530	1-216-097-11	RES-CHIP	100K	5%	1/10W
R103	1-216-077-00	RES-CHIP	15K	5%	1/10W	R531	1-216-097-11	RES-CHIP	100K	5%	1/10W
R104	1-216-079-00	METAL CHIP	18K	5%	1/10W	R532	1-216-097-11	RES-CHIP	100K	5%	1/10W
R170	1-216-025-11	RES-CHIP	100	5%	1/10W	R533	1-216-097-11	RES-CHIP	100K	5%	1/10W
R171	1-216-025-11	RES-CHIP	100	5%	1/10W	R535	1-216-097-11	RES-CHIP	100K	5%	1/10W
R175	1-216-089-11	RES-CHIP	47K	5%	1/10W	R537	1-216-097-11	RES-CHIP	100K	5%	1/10W
R180	1-216-025-11	RES-CHIP	100	5%	1/10W	R538	1-216-033-00	METAL CHIP	220	5%	1/10W
R181	1-216-025-11	RES-CHIP	100	5%	1/10W	R539	1-216-033-00	METAL CHIP	220	5%	1/10W
R185	1-216-089-11	RES-CHIP	47K	5%	1/10W	R540	1-216-097-11	RES-CHIP	100K	5%	1/10W
R191	1-249-437-11	CARBON	47K	5%	1/4W	R543	1-216-097-11	RES-CHIP	100K	5%	1/10W
R192	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	R544	1-216-295-11	SHORT	0		
R201	1-216-041-00	METAL CHIP	470	5%	1/10W	R545	1-216-025-11	RES-CHIP	100	5%	1/10W
R202	1-216-109-00	METAL CHIP	330K	5%	1/10W	R547	1-247-807-31	CARBON	100	5%	1/4W
R203	1-216-077-00	RES-CHIP	15K	5%	1/10W	R550	1-216-089-11	RES-CHIP	47K	5%	1/10W
R204	1-216-079-00	METAL CHIP	18K	5%	1/10W	R551	1-216-097-11	RES-CHIP	100K	5%	1/10W
R270	1-216-025-11	RES-CHIP	100	5%	1/10W	R552	1-216-097-11	RES-CHIP	100K	5%	1/10W
R271	1-216-025-11	RES-CHIP	100	5%	1/10W	R555	1-208-806-11	RES-CHIP	10K	0.5%	1/10W
R275	1-216-089-11	RES-CHIP	47K	5%	1/10W	R556	1-208-806-11	RES-CHIP	10K	0.5%	1/10W
R280	1-216-025-11	RES-CHIP	100	5%	1/10W	R557	1-247-807-31	CARBON	100	5%	1/4W
R281	1-216-025-11	RES-CHIP	100	5%	1/10W	R558	1-216-073-00	METAL CHIP	10K	5%	1/10W
R285	1-216-089-11	RES-CHIP	47K	5%	1/10W	R559	1-216-073-00	METAL CHIP	10K	5%	1/10W
R301	1-216-079-00	METAL CHIP	18K	5%	1/10W	R560	1-247-807-31	CARBON	100	5%	1/4W
R302	1-216-097-11	RES-CHIP	100K	5%	1/10W	R561	1-247-807-31	CARBON	100	5%	1/4W
R303	1-216-063-00	RES-CHIP	3.9K	5%	1/10W	R562	1-208-806-11	RES-CHIP	10K	0.5%	1/10W
R304	1-216-077-00	RES-CHIP	15K	5%	1/10W	R563	1-216-025-11	RES-CHIP	100	5%	1/10W
R305	1-216-001-00	METAL CHIP	10	5%	1/10W	R564	1-216-025-11	RES-CHIP	100	5%	1/10W
R306	1-216-105-00	RES-CHIP	220K	5%	1/10W	R565	1-216-097-11	RES-CHIP	100K	5%	1/10W
R331	1-249-393-11	CARBON	10	5%	1/4W	R566	1-216-097-11	RES-CHIP	100K	5%	1/10W
R332	1-216-089-11	RES-CHIP	47K	5%	1/10W	R567	1-216-097-11	RES-CHIP	100K	5%	1/10W
R335	1-216-025-11	RES-CHIP	100	5%	1/10W	R568	1-216-097-11	RES-CHIP	100K	5%	1/10W
R336	1-216-025-11	RES-CHIP	100	5%	1/10W	R570	1-216-097-11	RES-CHIP	100K	5%	1/10W
R351	1-216-049-11	RES-CHIP	1K	5%	1/10W	R571	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R352	1-249-383-11	CARBON	1.5	5%	1/6W	R572	1-216-089-11	RES-CHIP	47K	5%	1/10W
R353	1-216-065-00	RES-CHIP	4.7K	5%	1/10W	R573	1-249-425-11	CARBON	4.7K	5%	1/4W
R354	1-216-073-00	METAL CHIP	10K	5%	1/10W	R576	1-216-097-11	RES-CHIP	100K	5%	1/10W
R500	1-247-807-31	CARBON	100	5%	1/4W	R577	1-216-089-11	RES-CHIP	47K	5%	1/10W
R501	1-247-807-31	CARBON	100	5%	1/4W	R578	1-216-097-11	RES-CHIP	100K	5%	1/10W

(L500/L500X)

XR-L500/L500V/L500X

MAIN

SUB

Ref. No.	Part No.	Description	Remark		
R579	1-216-097-11	RES-CHIP	100K	5%	1/10W (L500/L500V)
R586	1-216-073-00	METAL CHIP	10K	5%	1/10W
R587	1-216-073-00	METAL CHIP	10K	5%	1/10W
R588	1-216-049-11	RES-CHIP	1K	5%	1/10W
R589	1-216-089-11	RES-CHIP	47K	5%	1/10W
R591	1-216-049-11	RES-CHIP	1K	5%	1/10W
R592	1-216-049-11	RES-CHIP	1K	5%	1/10W
R594	1-216-097-11	RES-CHIP	100K	5%	1/10W
R595	1-216-089-11	RES-CHIP	47K	5%	1/10W
R600	1-216-037-00	METAL CHIP	330	5%	1/10W (L500V)
R603	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (L500/L500X)
R604	1-216-073-00	METAL CHIP	10K	5%	1/10W (L500/L500X)
R606	1-249-400-11	CARBON	39	5%	1/4W (L500/L500X)
R607	1-249-400-11	CARBON	39	5%	1/4W (L500/L500X)
R608	1-249-400-11	CARBON	39	5%	1/4W (L500/L500X)
R609	1-249-389-11	CARBON	4.7	5%	1/4W (L500V)
R609	1-249-400-11	CARBON	39	5%	1/4W (L500/L500X)
R625	1-216-017-00	RES-CHIP	47	5%	1/10W
R631	1-216-033-00	RES-CHIP	220	5%	1/10W
R632	1-216-033-00	RES-CHIP	220	5%	1/10W
R633	1-216-033-00	RES-CHIP	220	5%	1/10W
R634	1-216-033-00	RES-CHIP	220	5%	1/10W
R635	1-216-033-00	RES-CHIP	220	5%	1/10W
R636	1-216-033-00	RES-CHIP	220	5%	1/10W
R701	1-216-025-11	RES-CHIP	100	5%	1/10W
R702	1-216-025-11	RES-CHIP	100	5%	1/10W
R751	1-249-417-11	CARBON	1K	5%	1/4W
R753	1-249-429-11	CARBON	10K	5%	1/4W
R756	1-216-198-00	RES-CHIP	1K	5%	1/8W
R757	1-216-198-00	RES-CHIP	1K	5%	1/8W
R758	1-216-198-00	RES-CHIP	1K	5%	1/8W
R760	1-216-198-00	RES-CHIP	1K	5%	1/8W
R901	1-249-417-11	CARBON	1K	5%	1/4W
< SWITCH >					
S551	1-692-431-21	SWITCH, TACTILE (RESET)			
S552	1-771-540-11	SWITCH, PUSH (NOSE DETECT) (1 KEY)			
< TUNER UNIT >					
TU1	A-3282-061-A	TUNER UNIT (TUX-020)			
< VIBRATOR >					
X51	1-579-242-41	VIBRATOR, CRYSTAL (4.332MHz)			
X501	1-781-294-21	VIBRATOR, CRYSTAL (18.432MHz)			
X502	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			

Ref. No.	Part No.	Description	Remark
*	1-676-603-21	SUB BOARD *****	
	1-792-195-11	CABLE, FLEXIBLE FLAT (14 CORE) < CONNECTOR >	
CNP801	1-794-064-12	SOCKET, CONNECTOR 14P < LED >	
LED801	8-719-038-05	LED CL-190FG-CD-T (TAPE DECK ILLUMINATION) (L500)	
LED801	8-719-061-16	LED CL-190SR-CD-T (TAPE DECK ILLUMINATION) (L500V/L500X)	
		< SWITCH >	
LSW801	1-771-883-11	SWITCH, TACTILE (WITH LED) (▲) (L500V/L500X)	
LSW801	1-786-113-11	SWITCH, TACT (WITH LED) (▲) (L500)	

		MISCELLANEOUS *****	
3	1-792-195-11	CABLE, FLEXIBLE FLAT (14 CORE)	
14	1-782-381-11	CORD (WITH CONNECTOR) (ISO P&S) (POWER) (South European)	
15	1-777-989-41	CORD (WITH CONNECTOR) (AMP REM/ATT)	
64	1-694-780-11	CONDUCTIVE BOARD, CONNECTION	
F781	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A)	
HP901	1-500-196-21	HEAD, MAGNETIC (PLAYBACK)	
LCD901	1-804-292-21	DISPLAY PANEL, LIQUID CRYSTAL (L500)	
LCD901	1-804-292-41	DISPLAY PANEL, LIQUID CRYSTAL (L500X)	
LCD901	1-804-293-11	DISPLAY PANEL, LIQUID CRYSTAL (L500V)	
M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)	

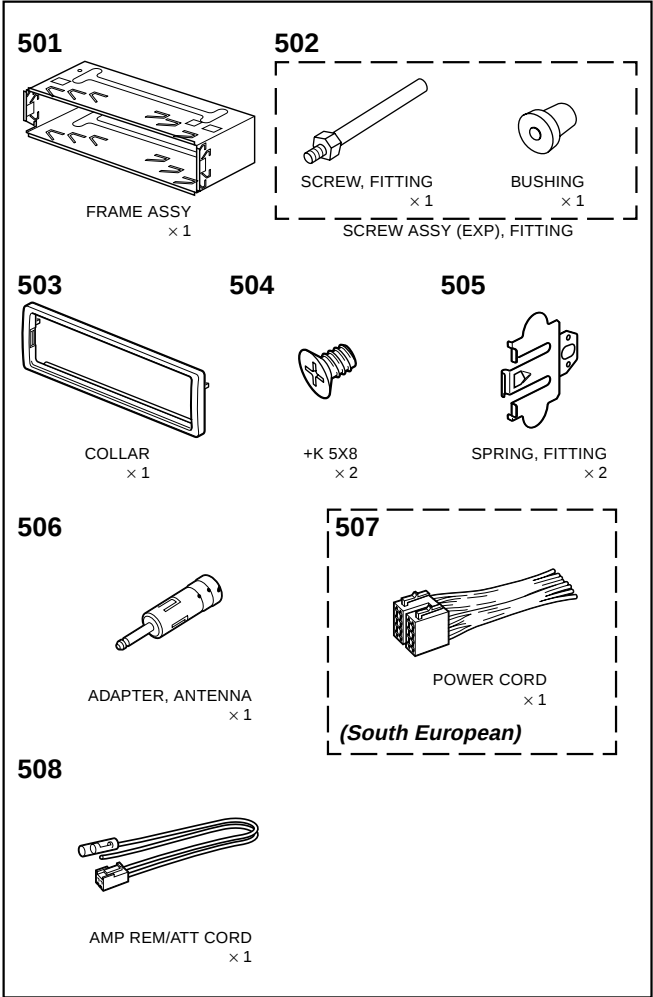
		***** HARDWARE LIST *****	
#1	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#2	7-621-772-20	SCREW +B 2X5	
#3	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#4	7-627-553-28	SCREW, PRECISION +P 2X2.5	
#5	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#6	7-624-104-04	STOP RING 2.0, TYPE -E	
#7	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3	
#8	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	
#9	7-685-795-09	SCREW +PTT 2.6X12 (S)	

		ACCESSORIES & PACKING MATERIALS *****	
3-227-102-11	MANUAL, INSTRUCTION (ENGLISH, GERMAN, FRENCH, ITALIAN, DUTCH)		
3-227-102-21	MANUAL, INSTRUCTION (ENGLISH, SPANISH, SWEDISH, PORTUGUESE, GREEK, RUSSIAN)		
3-227-102-31	MANUAL, INSTRUCTION (ENGLISH, CZECH, POLISH, TURKISH, RUSSIAN) (L500/L500X)		
3-227-103-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, GERMAN, FRENCH, ITALIAN, DUTCH)		

Ref. No.	Part No.	Description	Remark
	3-227-103-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, SWEDISH, PORTUGUESE, GREEK, RUSSIAN)	
	3-227-103-31	MANUAL, INSTRUCTION, INSTALL (ENGLISH, CZECH, POLISH, TURKISH, RUSSIAN) (L500/L500X)	
	X-3378-490-1	CASE (PANEL) ASSY (for FRONT PANEL)	

PARTS FOR INSTALLATION AND CONNECTIONS

501	X-3373-602-1	FRAME ASSY
502	X-3366-405-1	SCREW ASSY (EXP), FITTING
503	3-040-979-01	COLLAR
504	3-934-325-01	SCREW, +K (5X8) TAPPING
505	3-233-644-01	SPRING, FITTING
506	1-465-459-21	ADAPTER, ANTENNA
507	1-782-381-11	CORD (WITH CONNECTOR) (ISO P&S) (POWER) (South European)
508	1-777-989-41	CORD (WITH CONNECTOR) (AMP REM/ATT)



REVISION HISTORY

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

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