

XR-4890

SERVICE MANUAL

US Model
Canadian Model



Photo: XR-4890

Model Name Using Similar Mechanism	XR-C5100
Tape Transport Mechanism Type	MG-25F-136

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

13 watts for XR-4890 per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 1 % total harmonic distortion.

Other 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 - 107.9 MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	9 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 68 dB (mono)
Harmonic distortion at 1 kHz	0.7 % (stereo), 0.4 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 - 15,000 Hz

AM

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

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 - 8 ohms
Maximum power output	35 W x 4 (at 4 ohms)

- Continued on next page -

FM/AM CASSETTE CAR STEREO



SONY®

General

Outputs	Audio output Power antenna relay control lead Power amplifier control lead
Tone controls	Bass ± 8 dB at 100 Hz Treble ± 8 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 188 × 58 × 181 mm (7 1/2 × 2 3/8 × 7 1/4 in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 164 mm (7 1/4 × 2 1/8 × 6 1/2 in.) (w/h/d)
Mass	Approx. 1.2 kg (2 lb 10 oz)
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1)
Optional accessories	Rotary commander RM-X4S

Design and specifications are subject to change without notice.

TABLE OF CONTENTS

1. GENERAL	
Location of Controls	3
Resetting the Unit	4
Detaching the Front Panel	4
Setting the Clock	4
Installation	5
Connections	6
2. DISASSEMBLY	9
3. ASSEMBLY OF MECHANISM DECK	11
4. MECHANICAL ADJUSTMENTS	14
5. ELECTRICAL ADJUSTMENTS	
Tape Deck Section	14
Tuner Section	14
6. DIAGRAMS	15
6-1. Printed Wiring Board –MAIN Section–	17
6-2. Schematic Diagram –MAIN (1/2) Section–	19
6-3. Schematic Diagram –MAIN (2/2) Section–	21
6-4. Printed Wiring Board –PANEL Section–	23
6-5. Schematic Diagram –PANEL Section–	25
6-6. IC Pin Function Description	27
7. EXPLODED VIEWS	29
8. ELECTRICAL PARTS LIST	32

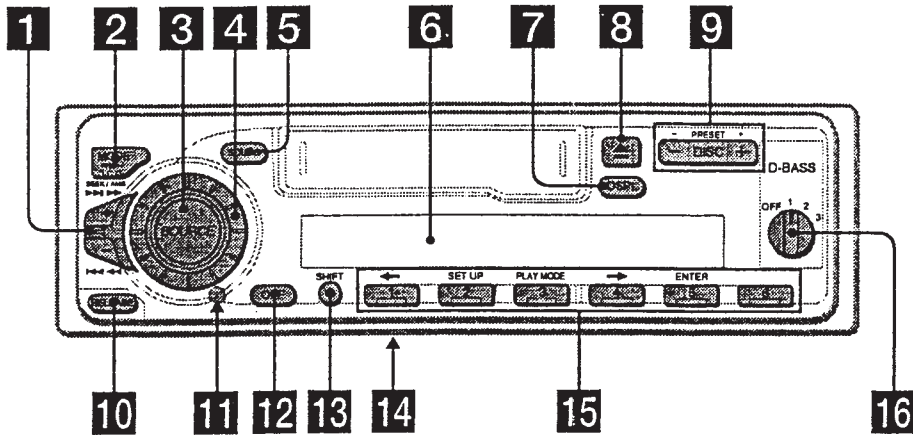
Flexible Circuit Board Repairing

- 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.

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.

Location of controls



Refer to the pages listed for details.

- 1** SEEK/AMS (seek/Automatic Music Sensor/manual search) control 7, 9, 14
- 2** MODE (◀▶) button
During tape playback:
Playback direction change 7
During radio reception:
BAND select 8, 9
- 3** SOURCE (TAPE/TUNER) button 7, 8, 9, 13
- 4** Dial (volume/bass/treble/left-right/rear-front control) 6, 12
- 5** SOUND button 12
- 6** Display window
- 7** DSPL (display mode change) button 7, 9, 13, 14
- 8** ▲ (eject) button 7
- 9** PRST button
During radio reception:
Preset stations select 9
- 10** RELEASE (front panel release) button 5, 17
- 11** Reset button (located on the front side of the unit behind the front panel) 5
- 12** OFF button 5, 7
- 13** SHIFT button
PLAY MODE 8, 9, 15
SET UP 6, 12, 14
- 14** POWER SELECT switch (located on the bottom of the unit)
See "POWER SELECT switch" in the Installation/Connections manual.
- 15** Number buttons 9
- 16** D-BASS control 13

Getting Started

Resetting the unit

Before operating the unit for the first time or after replacing the car battery, you must reset the unit. Remove the front panel and press the reset button with a pointed object, such as a ball-point pen.



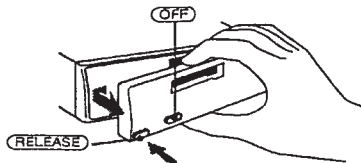
Reset button

Note
Pressing the reset button will erase the clock setting and some memorized functions.

Detaching the front panel

You can detach the front panel of this unit to protect the unit from being stolen.

- 1 Press **(OFF)**.
- 2 Press **(RELEASE)**, then slide the front panel a little to the left, and pull it off towards you.

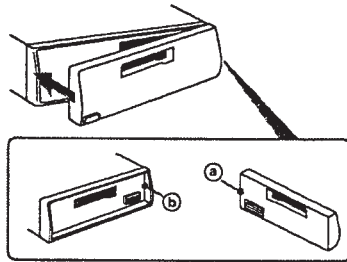


Notes

- Be sure not to drop the panel when detaching it from the unit.
- If you detach the panel while the unit is still turned on, the power will turn off automatically to prevent the speakers from being damaged.
- When carrying the front panel with you, use the supplied front panel case.

Attaching the front panel

Attach part **(a)** of the front panel to part **(b)** of the unit as illustrated and push the left side into position until it clicks.



Notes

- Be sure not to attach the front panel upside down.
- Do not press the front panel too hard against the unit when attaching it.
- Do not press too hard or put excessive pressure on the display window of the front panel.
- Do not expose the front panel to direct sunlight or heat sources such as hot air ducts, and do not leave it in a humid place. Never leave it on the dashboard of a car parked in direct sunlight or where there may be a considerable rise in temperature.

Caution alarm

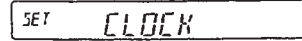
If you turn the ignition key switch to the OFF position without removing the front panel, the caution alarm will beep for a few seconds (only when the POWER SELECT switch on the bottom of the unit is set to the **(A)** position). If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.

Setting the clock

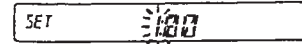
The clock uses a 12-hour digital indication.

Example: To set the clock to 10:08

- 1 Press **(SHIFT)**, then press **(2)** (**SET UP**) repeatedly until "CLOCK" appears.



- 1 Press **(4)** (**→**).



The hour indication flashes.

- 2 Set the hour.



- 3 Press **(4)** (**→**).



The minute indication flashes.

- 4 Set the minute.



- 2 Press **(SHIFT)**.



The clock starts.

- 3 Press **(SHIFT)**.
After the clock setting is complete, the display returns to normal playback mode.

Note
If the POWER SELECT switch on the bottom of the unit is set to the **(B)** position, turn the power on first, then set the clock.

Installation

Precautions

- Do not tamper with the four holes on the upper surface of the unit. They are for tuner adjustments to be done only by service technicians.
- Choose the installation location carefully so that the unit will not interfere with normal driving.
- Avoid installing the unit in areas subject to dust, dirt, excessive vibration, or high temperatures, such as in direct sunlight or near heater ducts.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 20°.

How to detach and attach the front panel

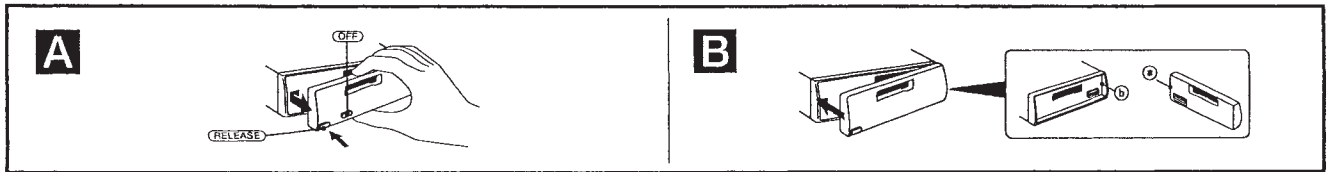
Before installing the unit, detach the front panel.

A To detach

Before detaching the front panel, be sure to press (OFF). Press (RELEASE), then slide the front panel a little to the left, and pull it off towards you.

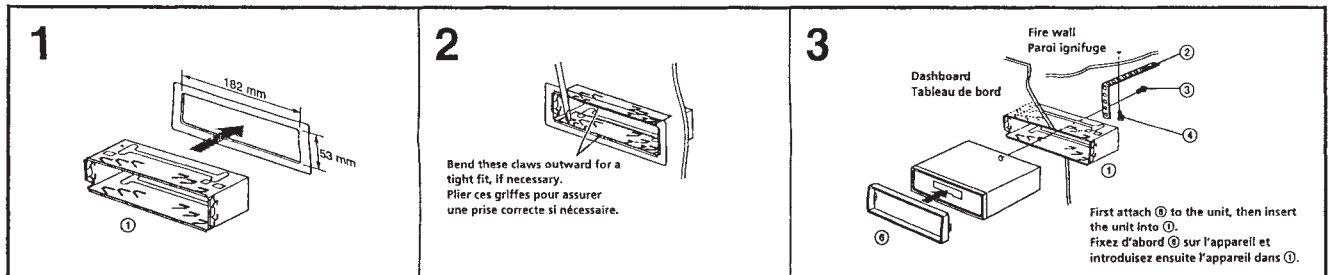
B To attach

Attach part ① of the front panel to part ② of the unit as illustrated and push the left side into position until it clicks.



Mounting example

Installation in the dashboard



Mounting the unit in a Japanese car

You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your Sony dealer.

Installation

Précautions

- Ne pas toucher les quatre orifices sur le panneau supérieur de l'appareil. Ils servent aux réglages du syntoniseur qui ne doivent être effectués que par un technicien.
- Choisir soigneusement l'emplacement d'installation pour que l'appareil ne gêne pas le chauffeur pendant la conduite.
- Éviter d'installer l'appareil dans un endroit exposé à des températures élevées, comme en plein soleil ou à proximité d'une bouche d'air chaud, ou à de la poussière, saleté ou vibrations violentes.
- Pour garantir un montage sûr, n'utiliser que le matériel fourni.

Réglage de l'angle de montage

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

Retrait et pose de la façade

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

A Retrait

Avant de déposer la façade, ne pas oublier d'appuyer sur (OFF). Appuyer ensuite sur (RELEASE), puis faire glisser la façade légèrement vers la gauche et enlever la façade en tirant à soi.

B Pose

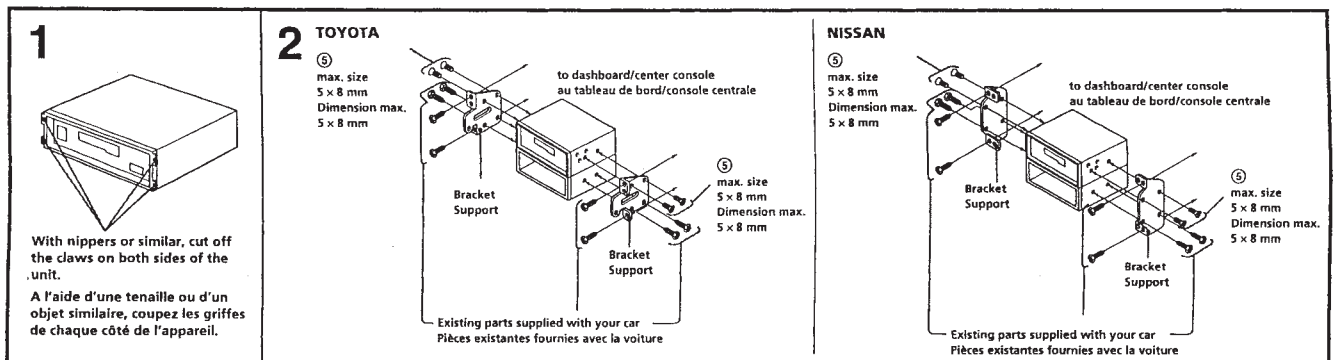
Fixez la partie ① de la façade sur la partie ② de l'appareil, comme indiqué sur l'illustration, puis poussez jusqu'au déclic.

Exemple de montage

Installation dans le tableau de bord

Installation de l'appareil dans une voiture japonaise

Cet appareil ne peut pas être installé dans certaines voitures japonaise. Consultez, dans ce cas, votre concessionnaire Sony.



Note
To prevent malfunction, install only with the supplied screws ⑤.

Remarque
Pour éviter tout dysfonctionnement, utilisez uniquement les vis ⑤ pour le montage.

Connections

Caution

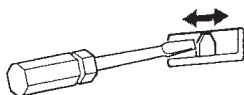
- This unit is designed for negative ground 12 V DC operation only.
- Be careful not to pinch any wires between a screw and the body of the car or this unit or between any moving parts such as the seat railing, etc.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **yellow** and **red** power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
- **Run all ground wires to a common ground point.**
- Connect the yellow cord to a free car circuit rated higher than the unit's fuse rating. If you connect this unit in series with other stereo components, the car circuit they are connected to must be rated higher than the sum of the individual component's fuse rating. If there are no car circuits rated as high as the unit's fuse rating, connect the unit directly to the battery. If no car circuits are available for connecting this unit, connect the unit to a car circuit rated higher than the unit's fuse rating in such a way that if the unit blows its fuse, no other circuits will be cut off.

If your car has no accessory position on the ignition key switch — POWER SELECT switch

The front panel illumination is factory-set to be turned on even when the unit is not being played. However, this setting may cause some car battery to wear if your car has no accessory position on the ignition key switch. To avoid this battery wear, set the POWER SELECT switch located on the bottom of the unit to the **0** position, then press the reset button. The illumination is reset to stay off while the unit is not being played.

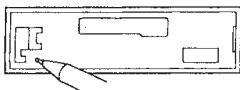
Notes

- The caution alarm for the front panel is not activated when the POWER SELECT switch is set to the **0** position.
- Do not use excessive force when changing the POWER SELECT switch.



Reset button

When the installation and connections are complete, be sure to press the reset button with a ball-point pen, etc.



Connexions

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 les connexions, débrancher la borne de terre de la batterie du véhicule pour éviter tout court-circuit.
- Brancher les fils d'entrée d'alimentation **jaune** et **rouge** seulement après avoir terminé tous les autres branchements.
- Veiller à ne pas raccorder le fil rouge d'entrée d'alimentation à la borne positive de 12 V qui est alimentée quand la clé de contact est sur la position accessoires.
- **Rassembler tous les fils de terre en un point de masse commun.**
- Brancher le câble jaune à un circuit libre de la voiture dont la capacité nominale est supérieure à la capacité du fusible de l'appareil. Si vous branchez cet appareil en série avec d'autres composants stéréo, le circuit de la voiture auquel ils sont raccordés doit afficher une capacité nominale supérieure à la somme des capacités individuelles de chaque composant. S'il n'y a pas de circuits de voiture affichant une capacité égale à la capacité du fusible de l'appareil, brancher l'appareil directement à la batterie. Si aucun circuit de voiture n'est disponible pour connecter cet appareil, brancher l'appareil à un circuit de voiture supérieur à la capacité du fusible de l'appareil de telle sorte que si l'appareil grille son fusible, aucun autre circuit ne soit coupé.

Si l'appareil est utilisé dans une voiture dont la clé de contact n'a pas de position accessoires

— Interrupteur POWER SELECT

L'éclairage de la façade est réglé en usine de manière à s'allumer même lorsque l'appareil ne fonctionne pas. Ce réglage risque cependant d'épuiser la batterie si l'appareil est utilisé dans une voiture dont la clé de contact ne comporte pas de position accessoires. Pour éviter d'épuiser la batterie, régler l'interrupteur POWER SELECT situé sur le dessous de l'appareil sur la position **0** et appuyer ensuite sur la touche de réinitialisation. L'éclairage est désormais réglé pour rester éteint quand l'appareil n'est pas utilisé.

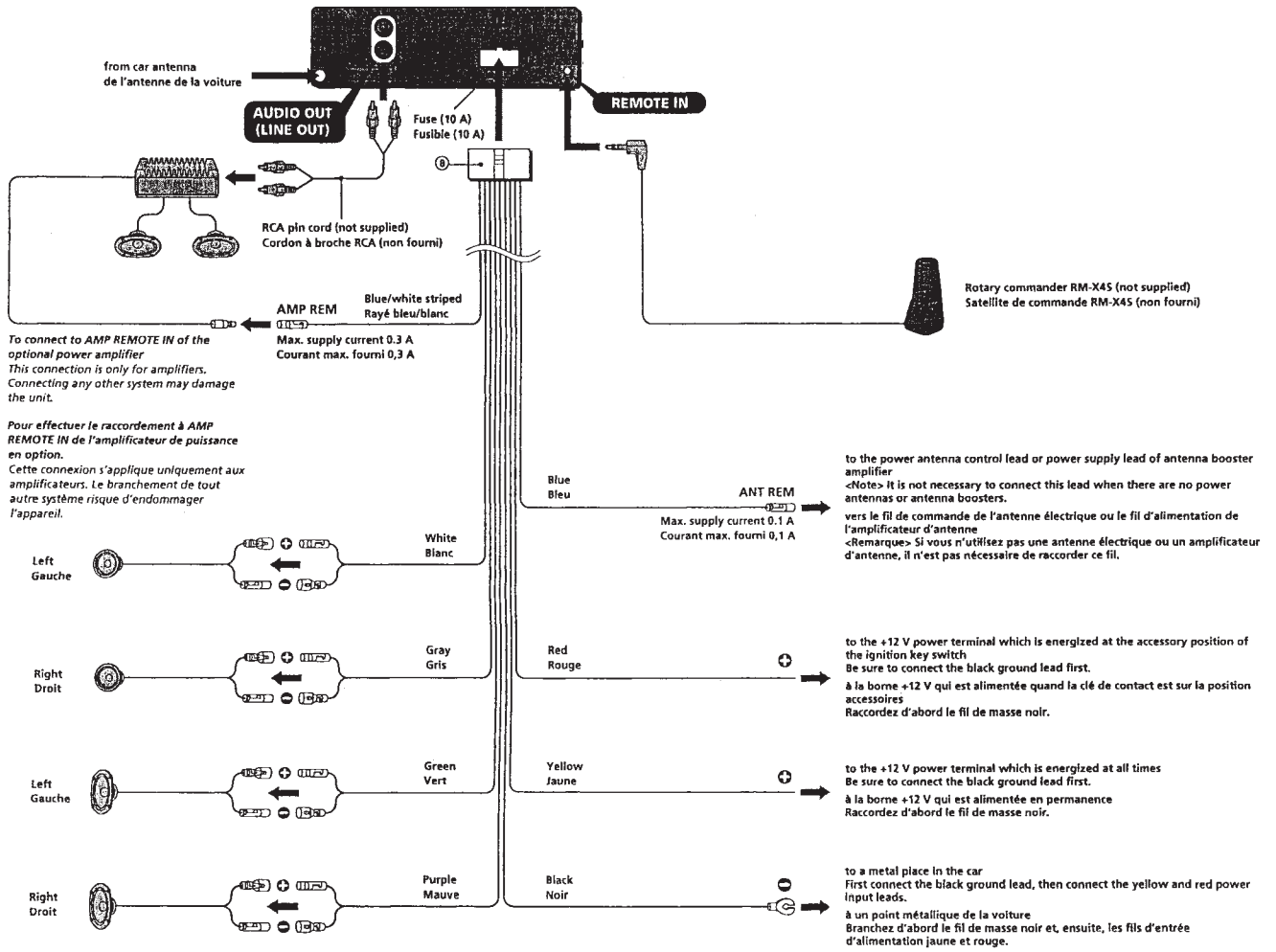
Remarques

- L'avertisseur de la façade n'est pas activé lorsque l'interrupteur POWER SELECT est réglé sur la position **0**.
- N'exercez pas une pression excessive lorsque vous commutez l'interrupteur POWER SELECT.

Touche de réinitialisation

Quand l'installation et les connexions sont terminées, appuyer sur la touche de réinitialisation avec un stylo à bille, etc.

Connection exemple
Exemple de raccordement



Notes on the control leads

- The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the ATA (Automatic Tuner Activation) function.
- A power antenna without 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 key 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. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.
- Do not attempt to connect the speakers in parallel.
- Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Be sure to connect passive speakers to these terminals.

Remarques sur les fils de contrôle

- Le fil de commande de l'antenne électrique (bleu) fournit une alimentation de +12 V CC lorsque vous mettez le syntoniseur sous tension ou que vous sélectionnez la fonction d'activation automatique (ATA) de la radio.
- 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 la connexion des haut-parleurs

- Avant de raccorder les haut-parleurs, mettez 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 pas les bornes du système de haut-parleur au châssis de la voiture, et ne pas connecter les bornes du haut-parleur droit à celles du haut-parleur gauche.
- Ne pas tenter de raccorder les haut-parleurs en parallèle.
- Ne pas connecter de haut-parleurs actifs (équipés d'un amplificateur intégré) aux bornes de haut-parleur de l'appareil. Les haut-parleurs actifs risquent sinon d'être endommagés. Veiller par conséquent à raccorder des haut-parleurs passifs à ces bornes.

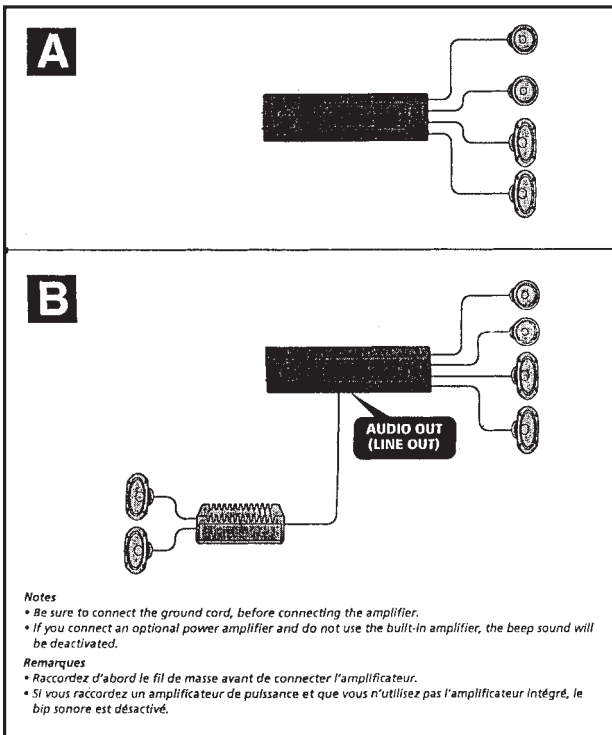
Connection diagram
Schémas de connexion

Equipment used in illustrations (not supplied)
Appareils utilisés dans les illustrations (non fournis)



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

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



Notes

- Be sure to connect the ground 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.

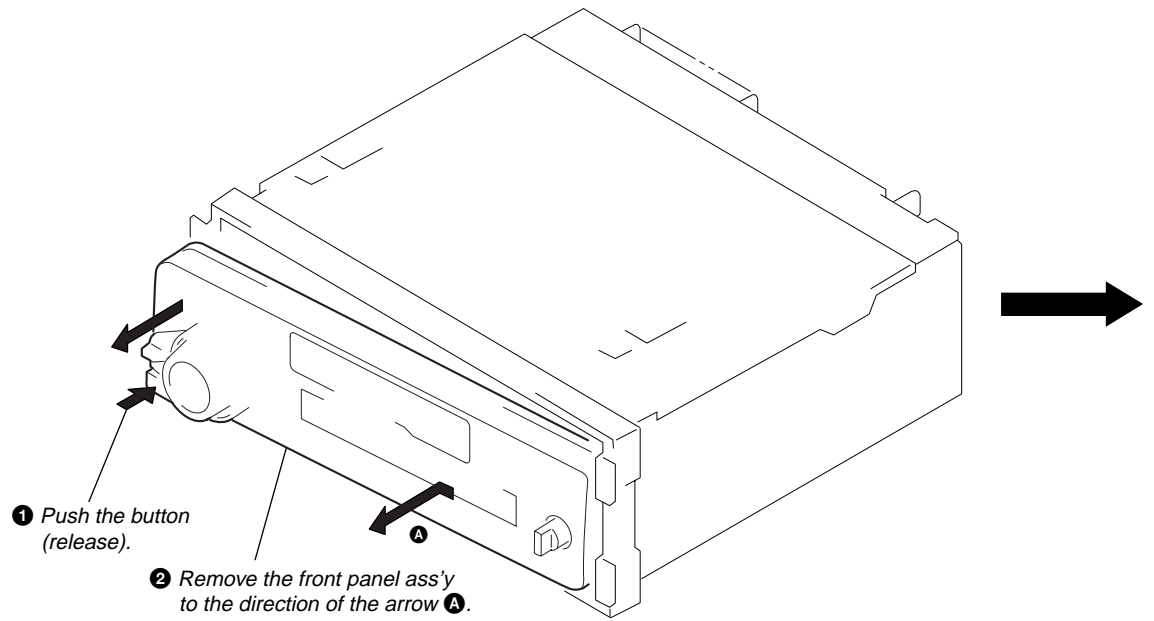
Remarques

- 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.

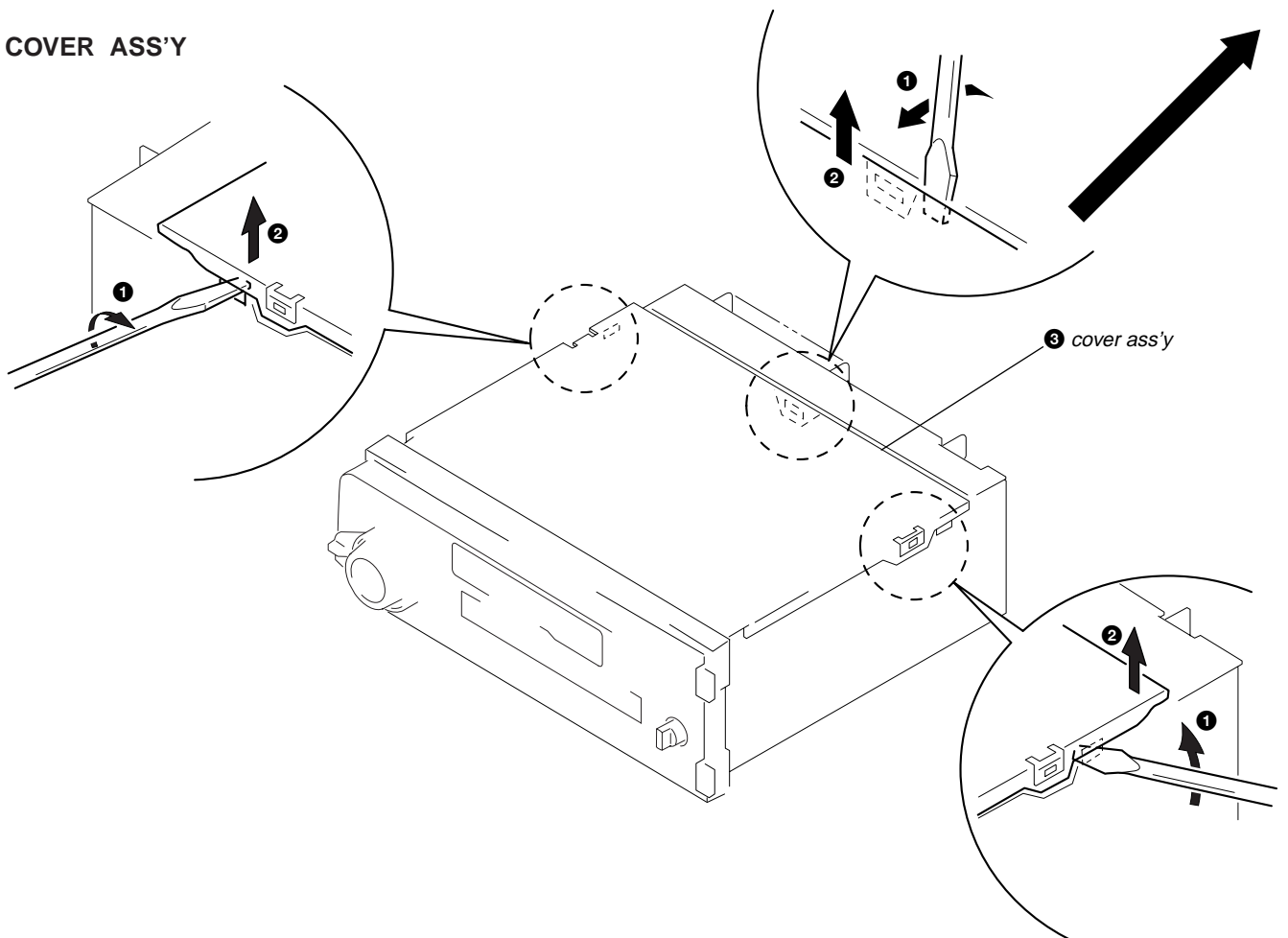
SECTION 2 DISASSEMBLY

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

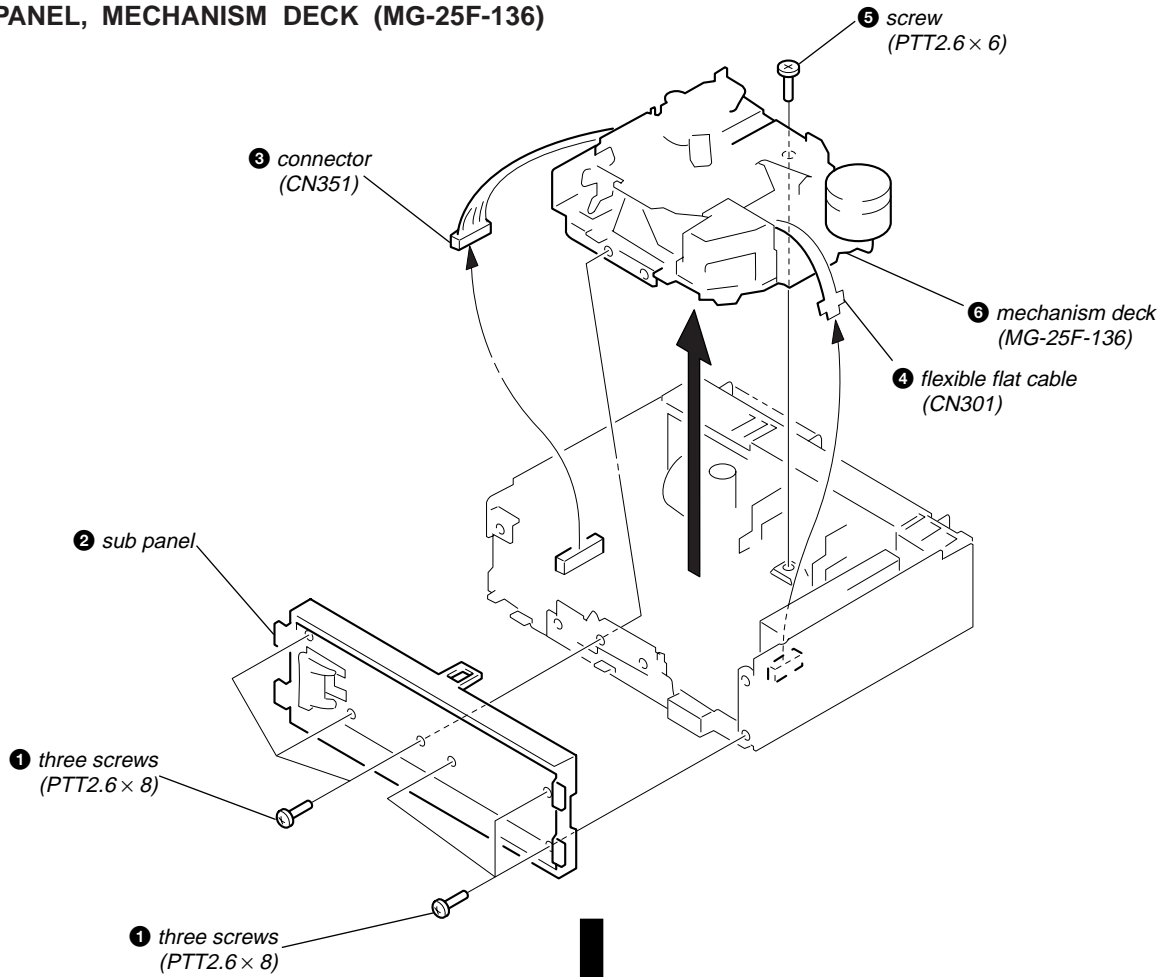
FRONT PANEL ASS'Y



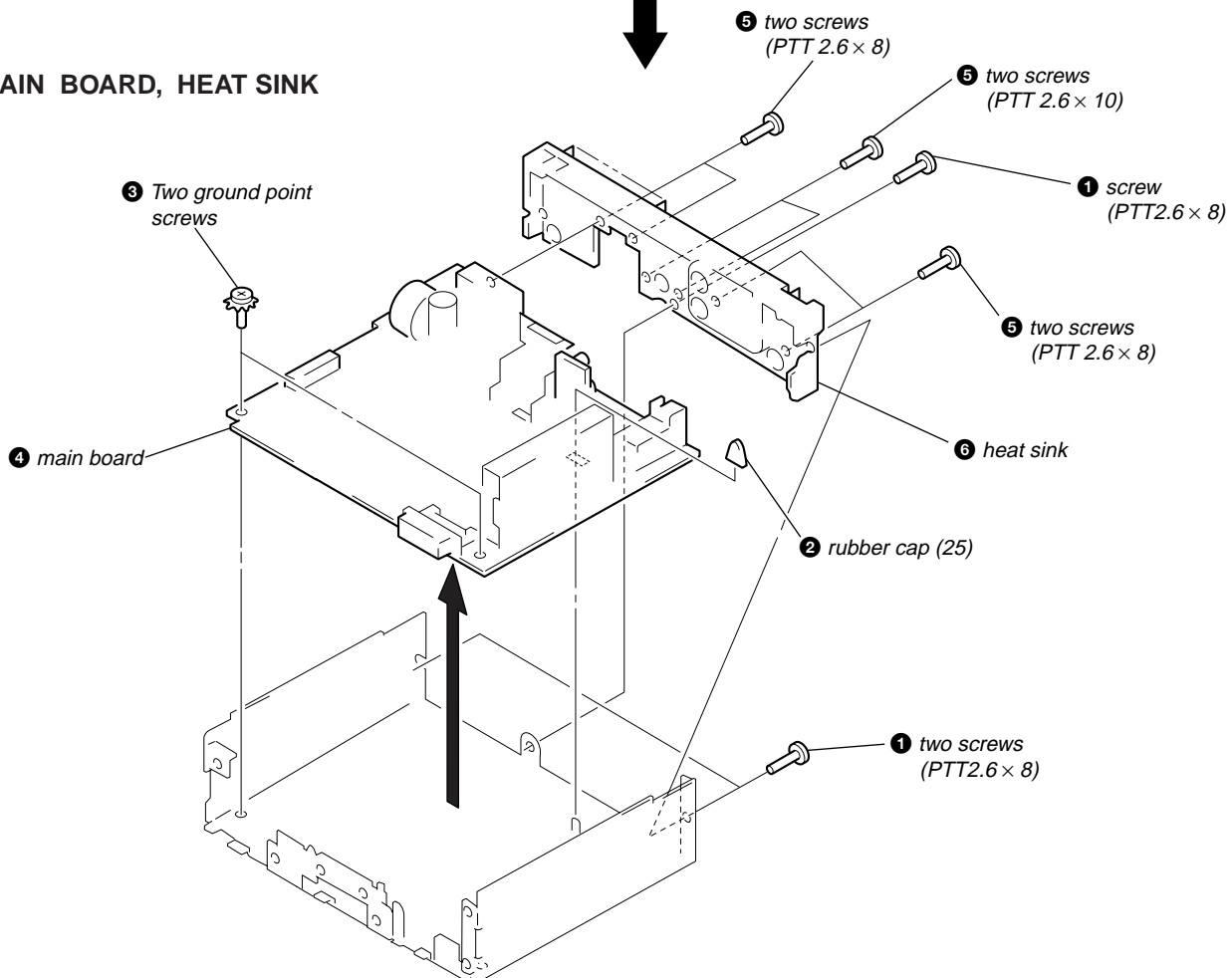
COVER ASS'Y



SUB PANEL, MECHANISM DECK (MG-25F-136)



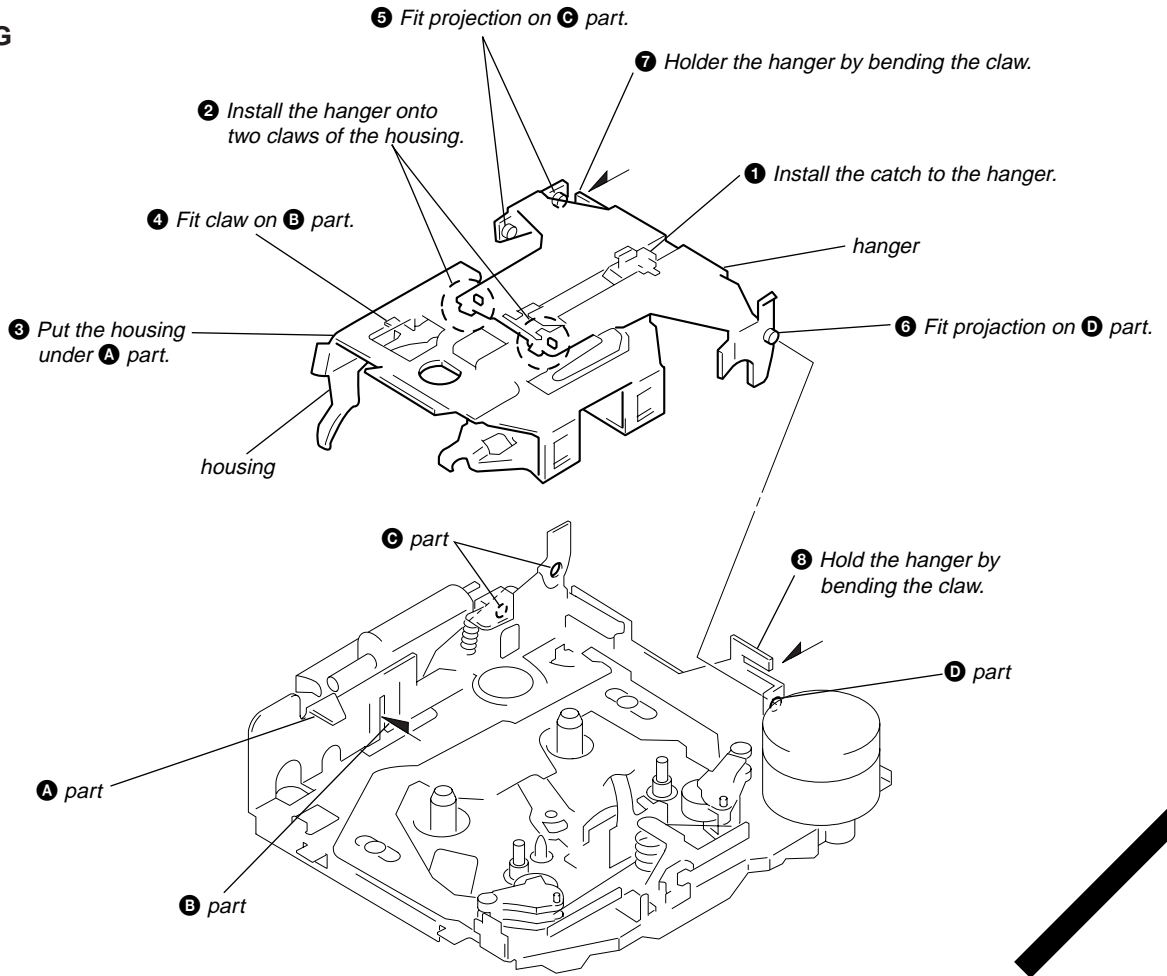
MAIN BOARD, HEAT SINK



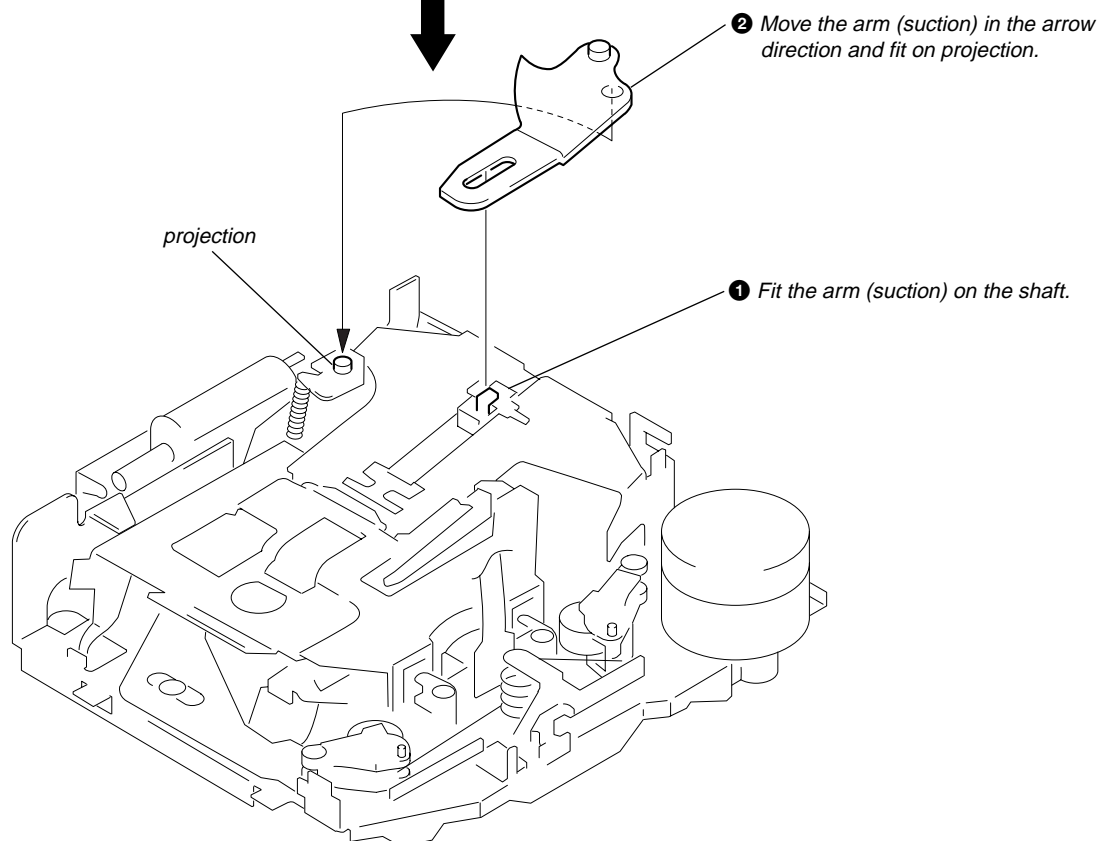
SECTION 3 ASSEMBLY OF MECHANISM DECK

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

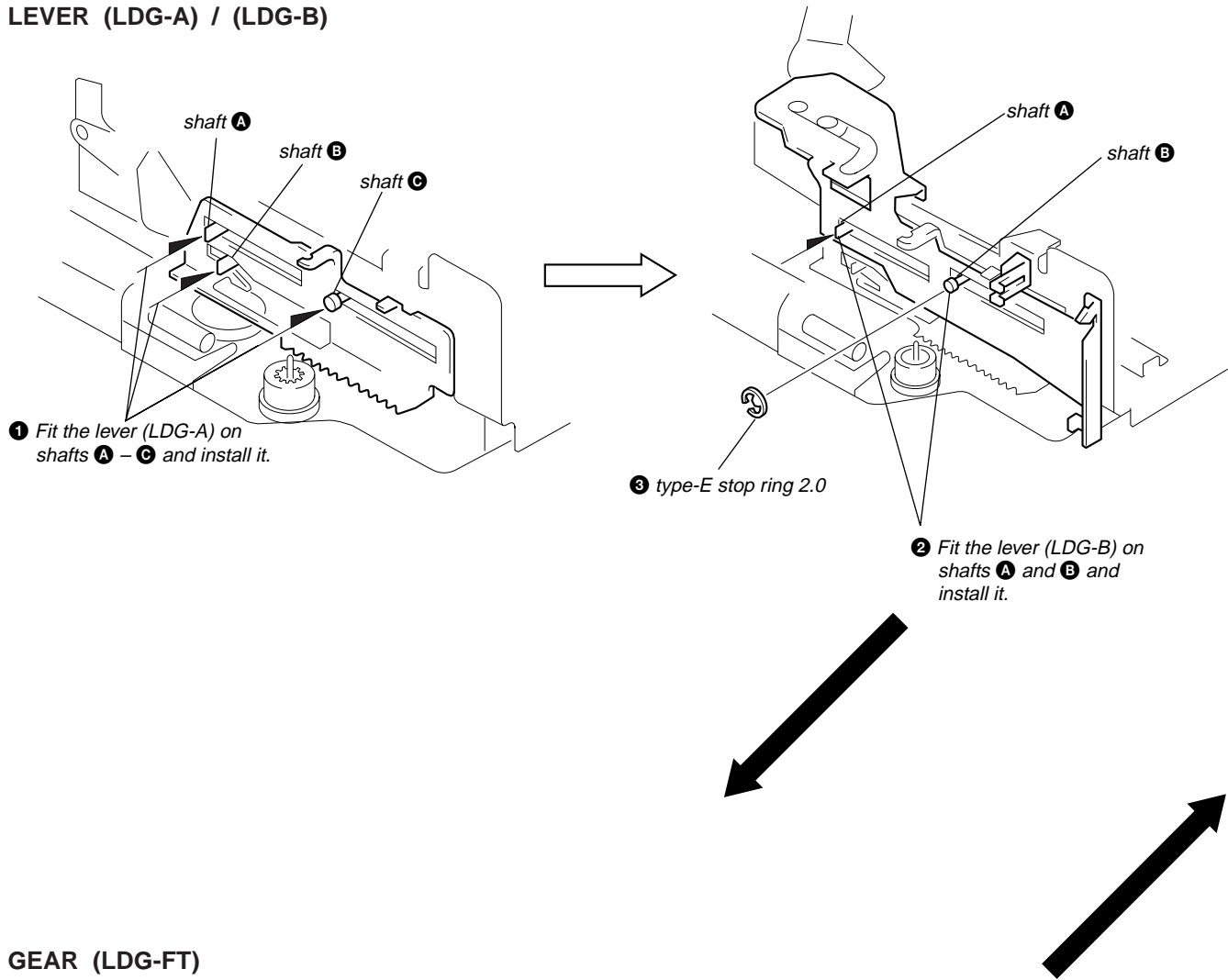
HOUSING



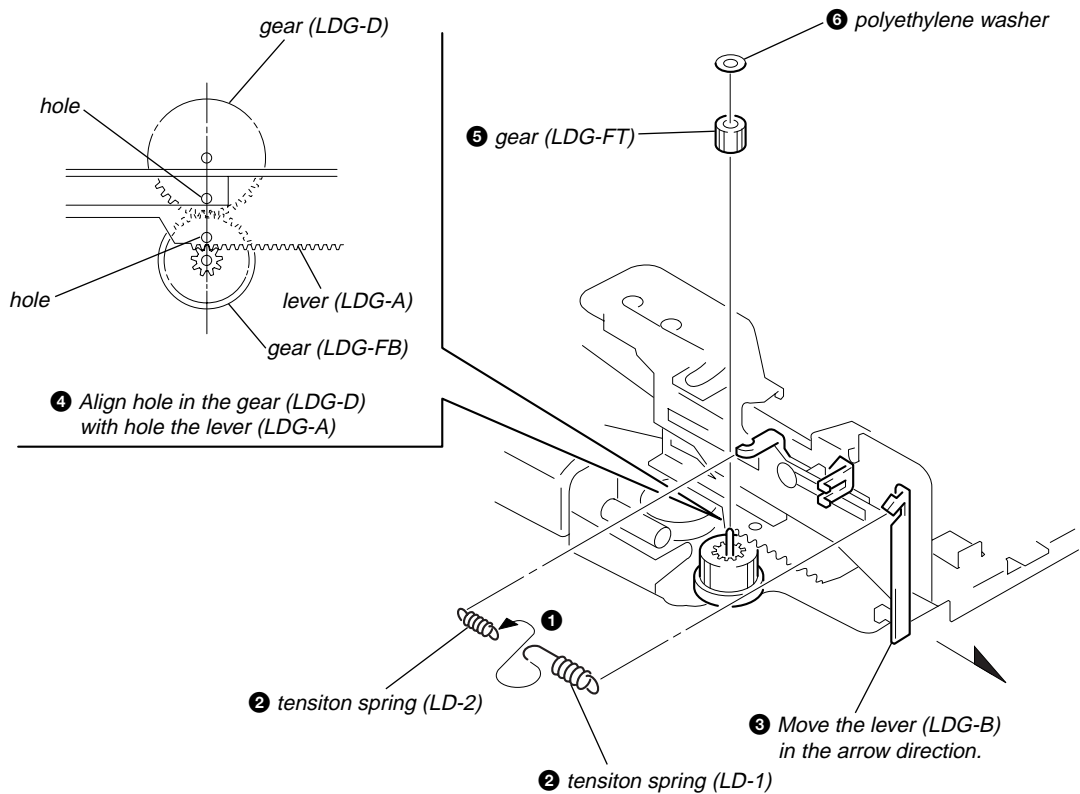
ARM (SUCTION)



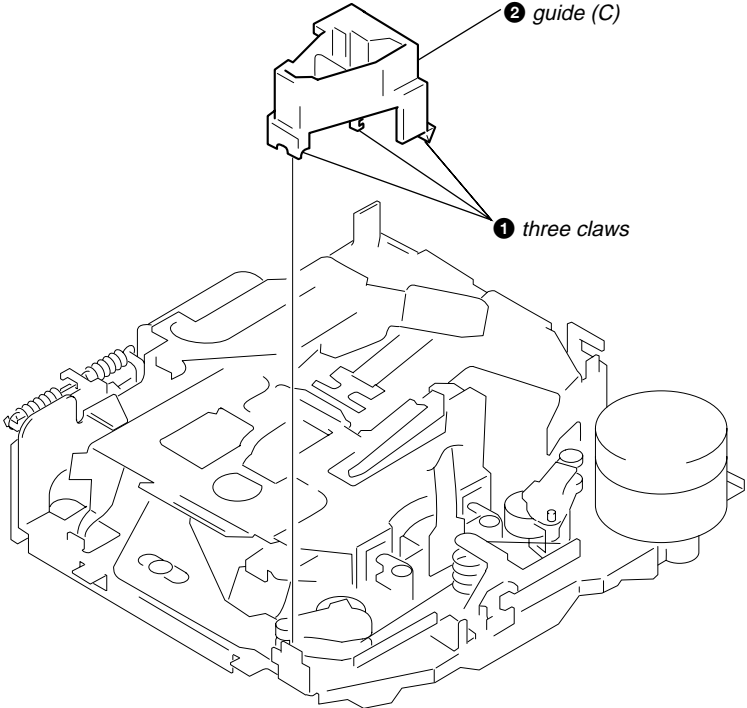
LEVER (LDG-A) / (LDG-B)



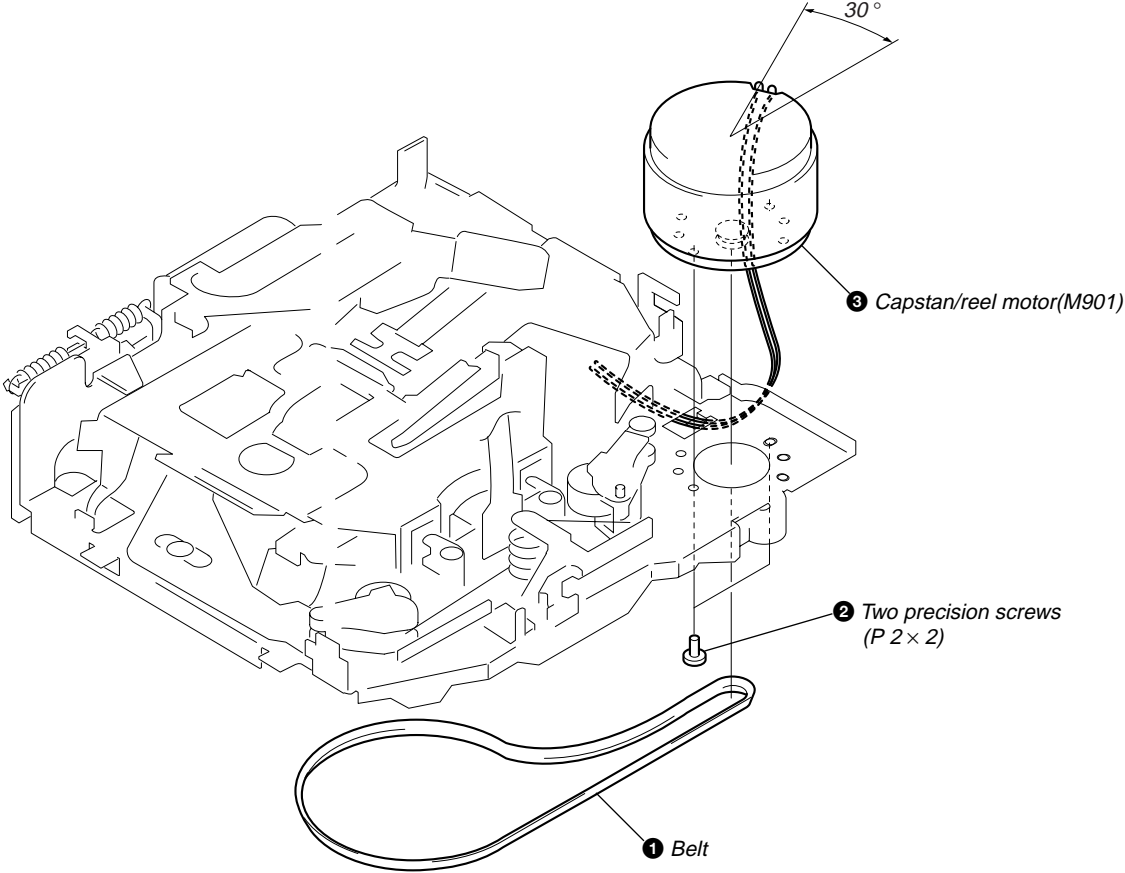
GEAR (LDG-FT)



GUIDE (C)



MOUNTING POSITION OF CAPSTAN/REEL MOTOR (M901)



SECTION 4 MECHANICAL ADJUSTMENTS

1. Clean the following parts with a denatured-alcohol-moistene swab:
 playback head pinch roller
 rubber belt capstan
 idlers
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the power supply voltage unless otherwise noted.

• Torque Measurement

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

• Tape Tension Measurement

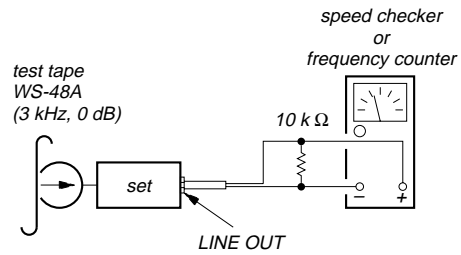
Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 90 g (more than 3.18 oz)
Reverse	CQ-403R	more than 90 g (more than 3.18 oz)

SECTION 5 ELECTRICAL ADJUSTMENTS

TAPE DECK SECTION

0 dB=0.775 V

Tape Speed Adjustment Setting:



Procedure:

1. Put the set into the PB mode.
2. Adjust adjustment resistor for inside capstan motor so that the reading on the speed checker or frequency counter becomes in specification.

Specification: Constant speed

Speed checker	Frequency counter
-1.5 to +2.5%	2,955 to 3,075 Hz

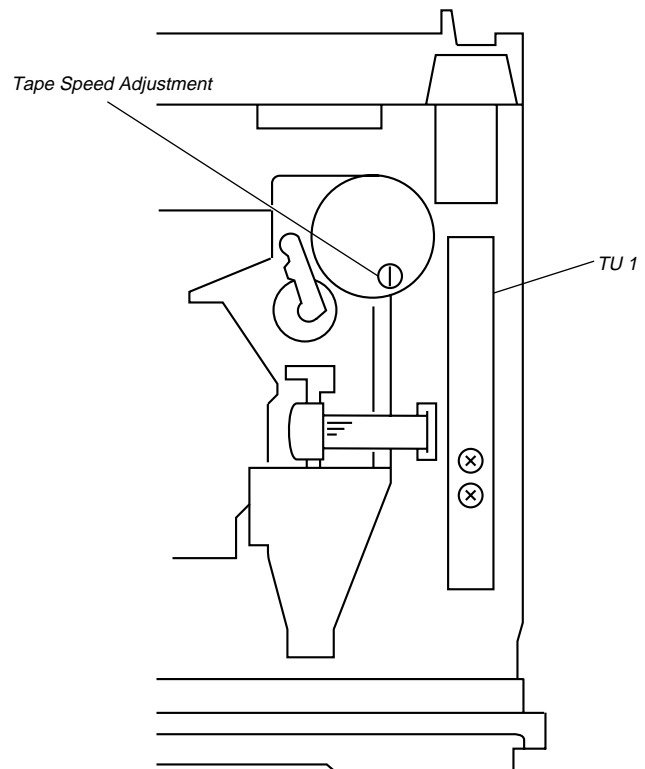
TUNER SECTION

0 dB=1 μV

The tuner section has no adjustment.

Adjustment Location:

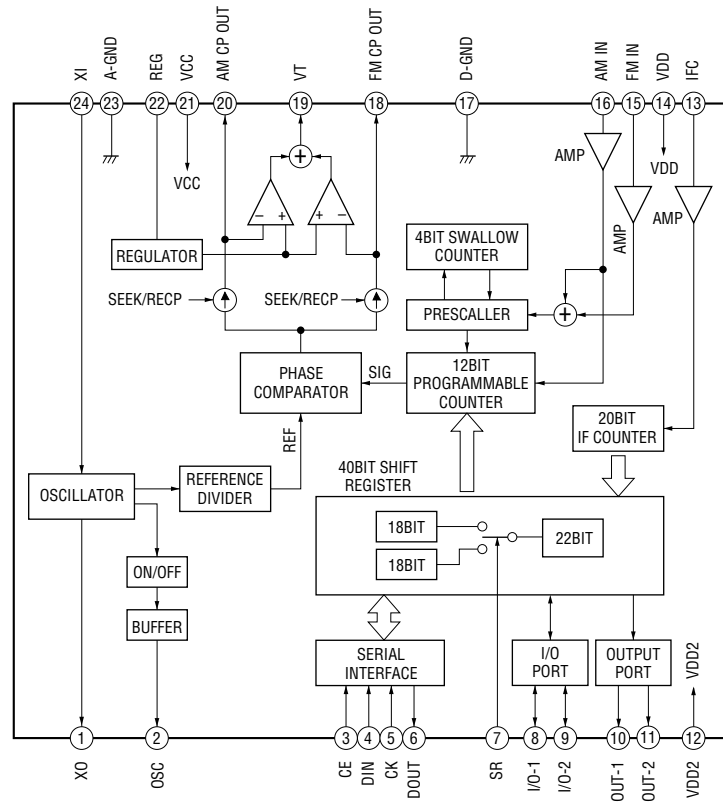
– SET UPPER VIEW –



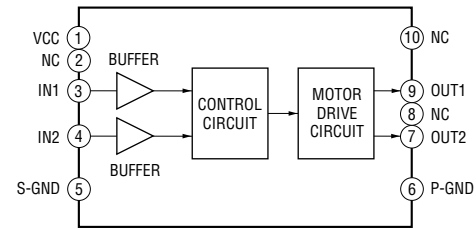
SECTION 6 DIAGRAMS

• IC Block Diagrams – MAIN Board –

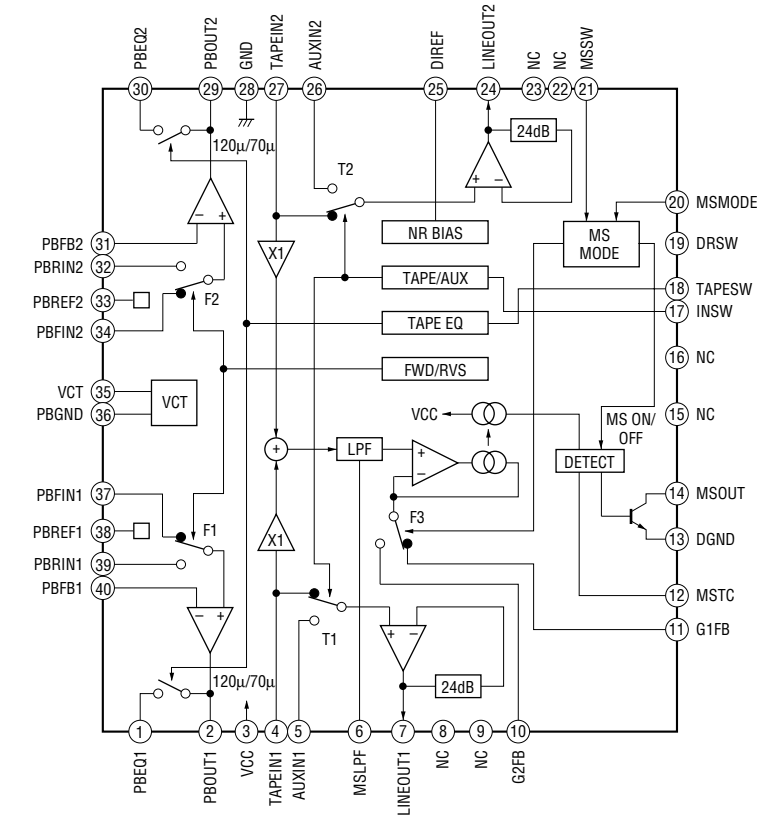
IC21 TB2118F (EL)



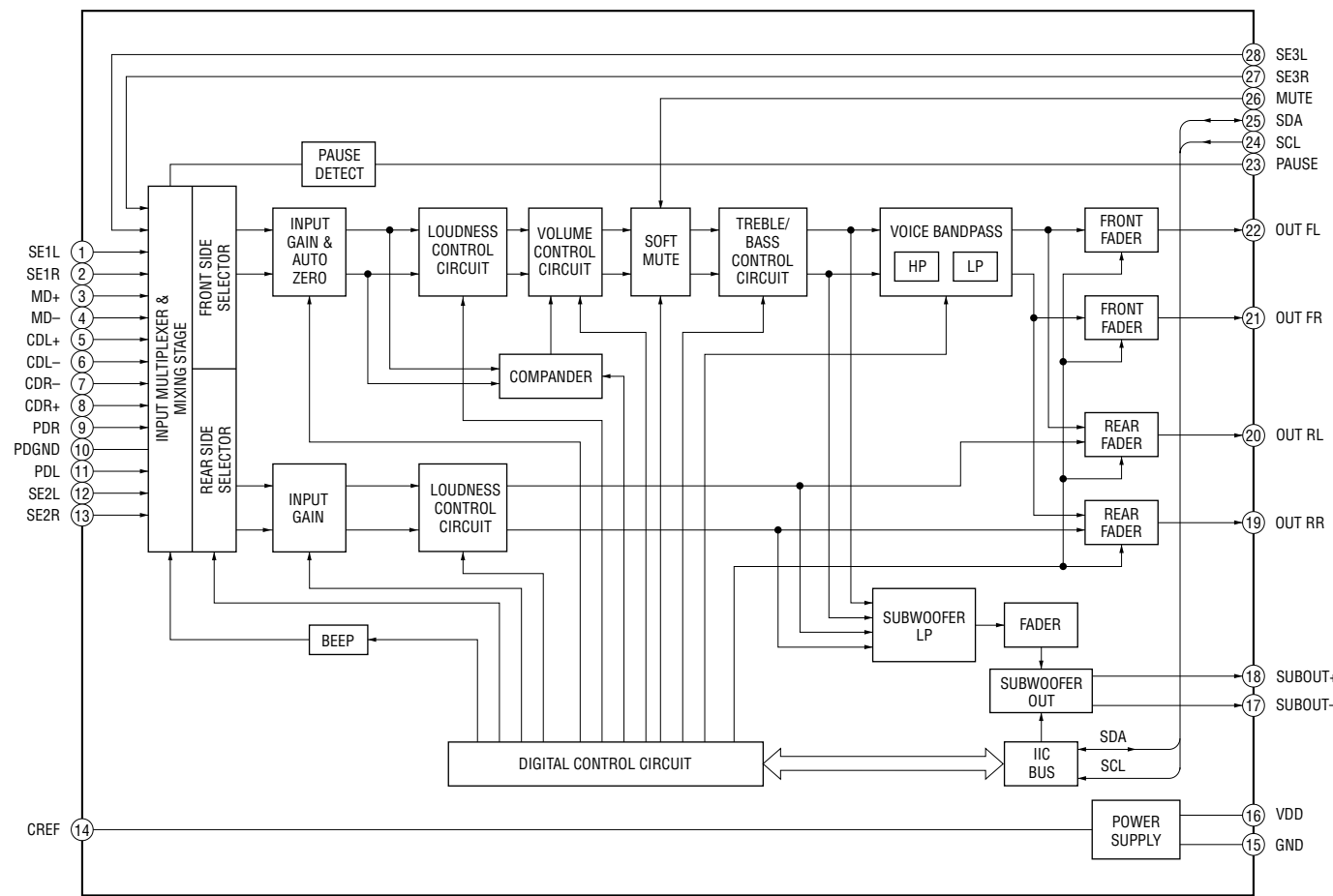
IC351 LB1930M-TLM



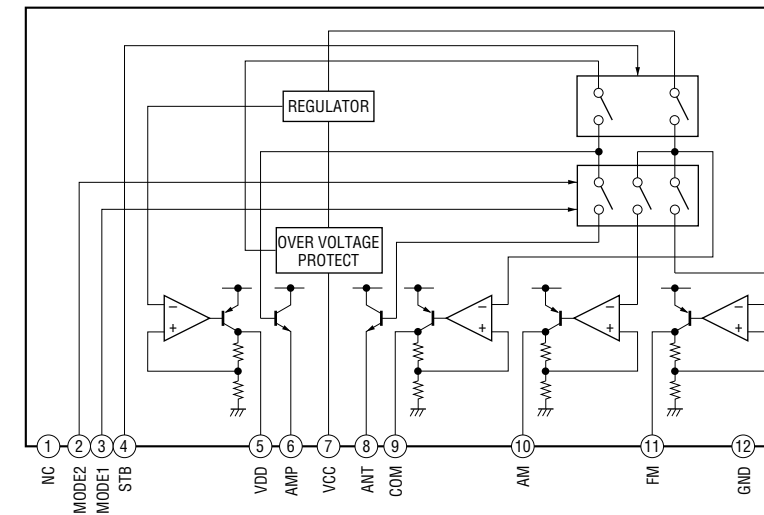
IC301 CXA2509AQ-T4



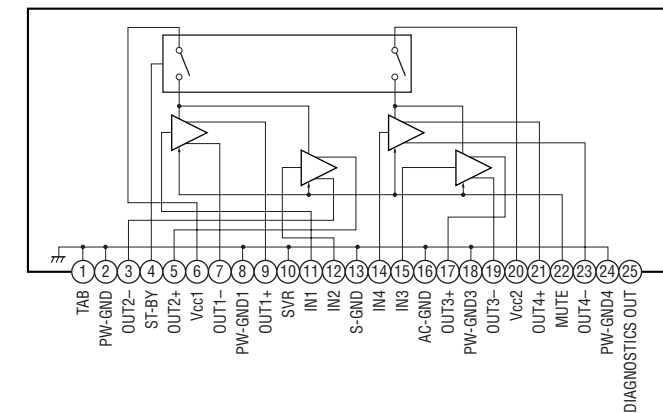
IC331 TDA7462D



IC661 BA3918-V2



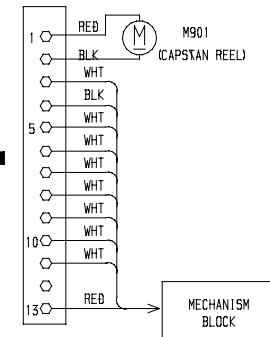
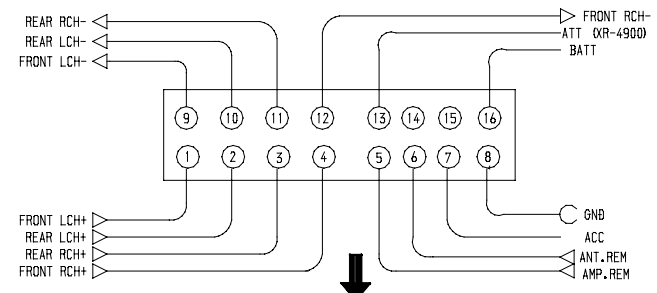
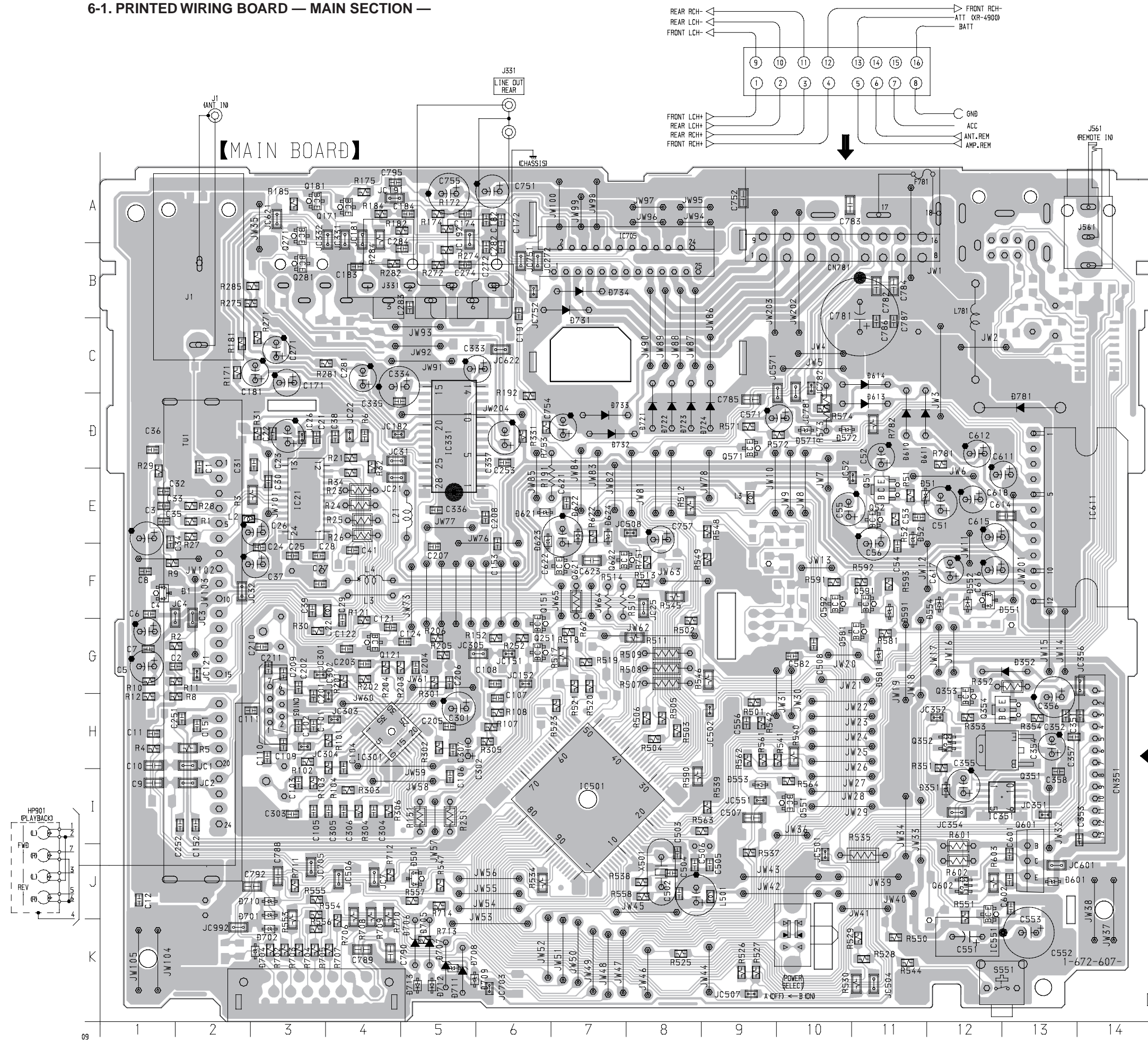
IC751 TDA7385



6-1. PRINTED WIRING BOARD — MAIN SECTION —

• Semiconductor Location

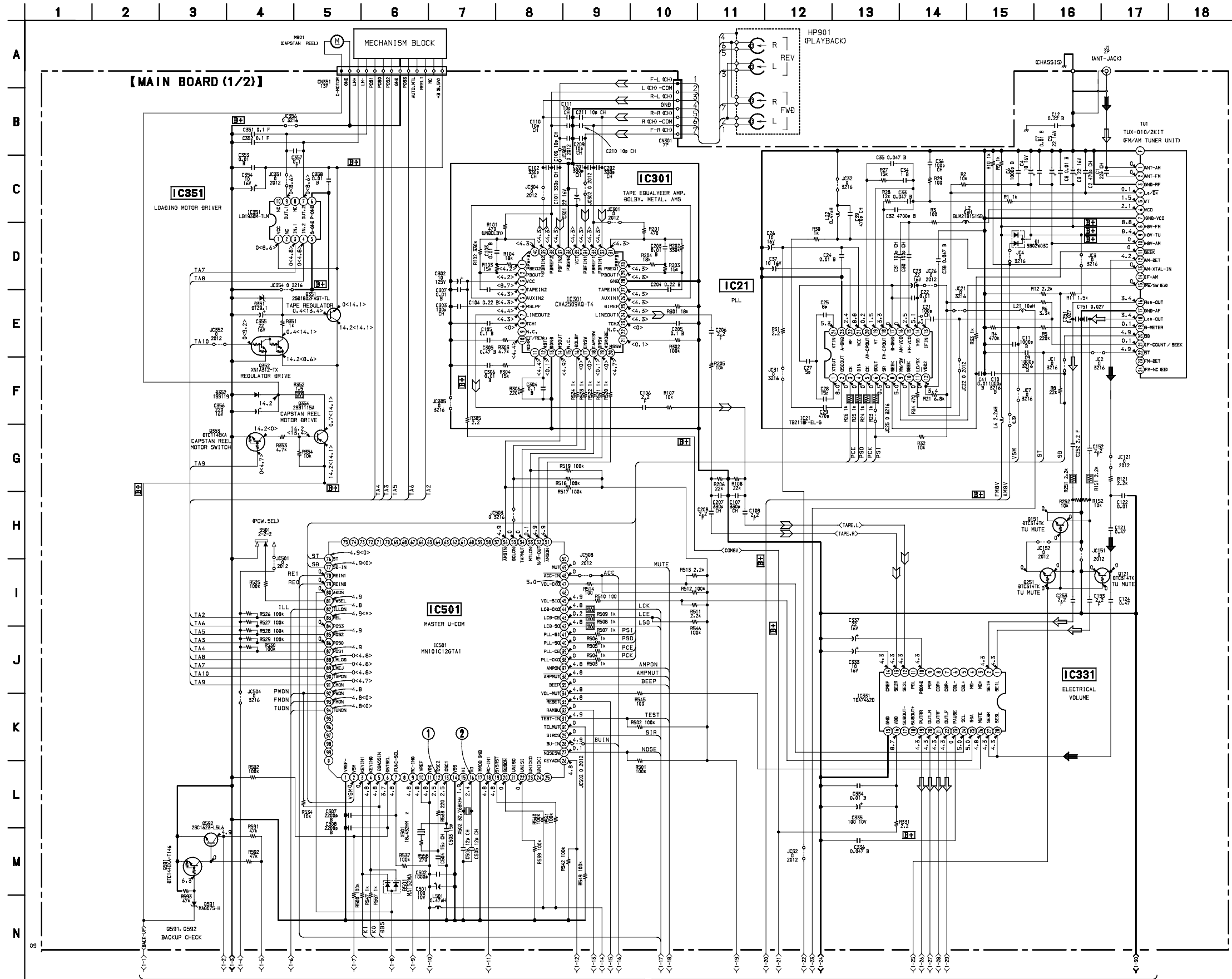
Ref. No.	Location
D1	F-1
D51	E-11
D52	E-11
D351	I-12
D352	G-13
D501	J-5
D551	F-12
D552	F-12
D553	I-9
D554	F-12
D571	D-10
D572	D-10
D581	G-11
D588	E-9
D591	F-11
D601	J-13
D610	D-11
D611	D-11
D613	D-11
D614	C-11
D621	E-6
D622	E-7
D623	E-6
D624	E-7
D701	K-3
D702	K-3
D704	K-3
D705	K-5
D706	K-5
D707	K-5
D708	K-5
D709	K-5
D710	J-3
D711	K-5
D712	K-5
D713	K-5
D721	D-8
D722	D-8
D723	D-8
D724	D-9
D731	B-7
D732	D-7
D733	D-7
D734	B-7
D781	D-13
IC21	E-3
IC301	H-4
IC331	D-5
IC351	I-12
IC501	I-7
IC551	J-12
IC611	E-14
IC751	B-7
Q51	E-11
Q52	E-11
Q121	G-4
Q151	G-6
Q171	A-4
Q181	A-3
Q251	G-6
Q271	A-3
Q281	B-3
Q351	H-13
Q352	H-12
Q353	H-12
Q354	H-12
Q551	I-10
Q571	D-9
Q581	G-11
Q583	F-9
Q591	F-11
Q592	F-10
Q601	J-13
Q602	J-12
Q621	F-7
Q622	F-7



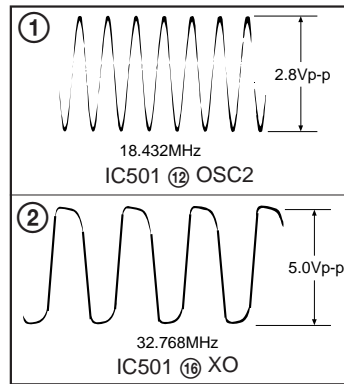
Noteon Printed Wiring Board:
 • : parts extracted from the component side.
 • Δ : internal component.

(Page 24)

6-2. SCHEMATIC DIAGRAM — MAIN (1/2) SECTION — • Refer to page 15 for IC Block Diagrams.



• Waveforms

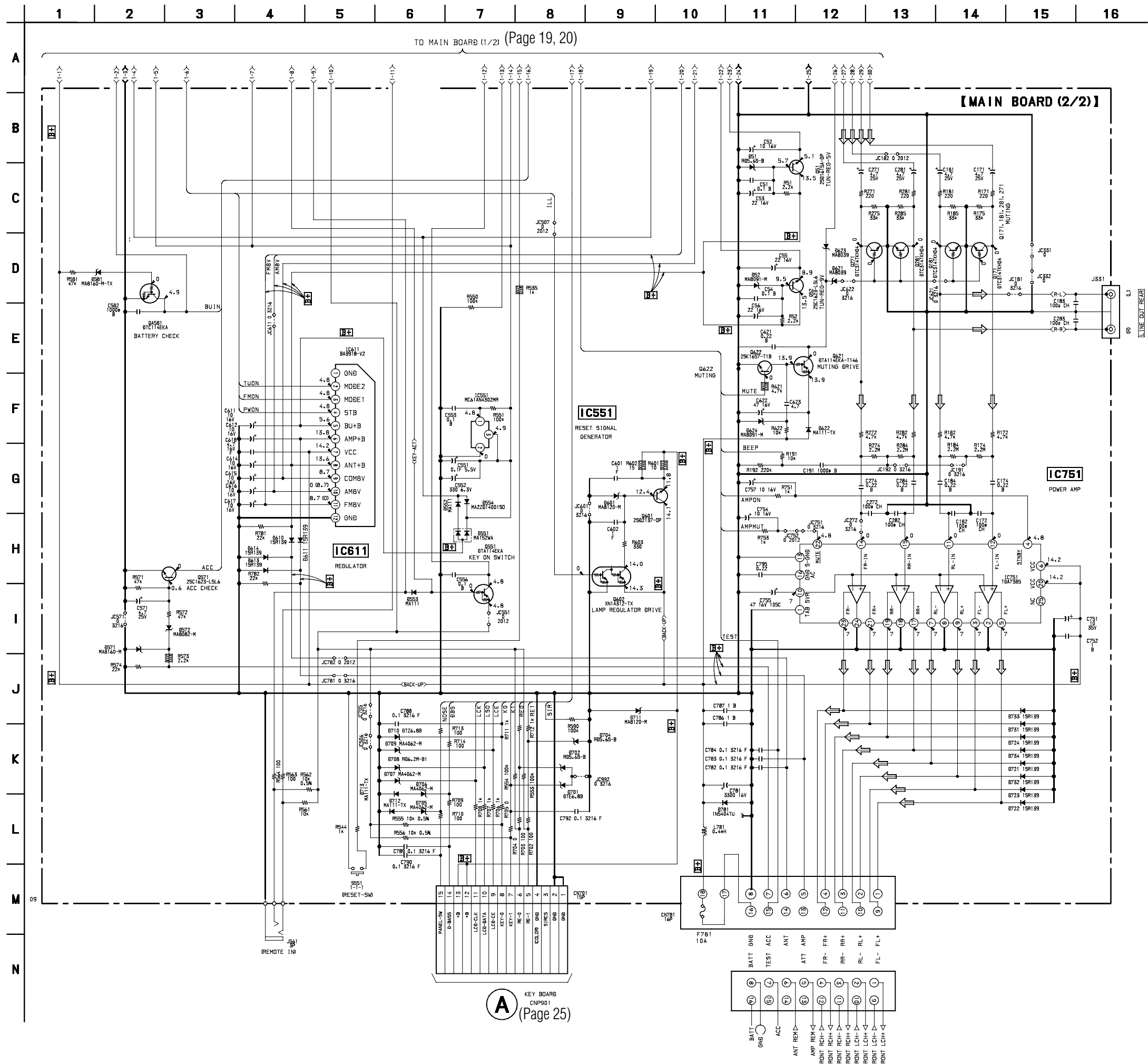


Note on Schematic Diagram:

- 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 $1/4\text{W}$ or less unless otherwise specified.
- Δ : internal component.
- \square : panel designation.
- **B+** : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- no mark : FM
- < > : TAPE PLAYBACK
- * : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- \Rightarrow : FM
- \Rightarrow : AM (MW)
- \Rightarrow : TAPE PLAYBACK

TO MAIN BOARD (2/2) (Page 21, 22)

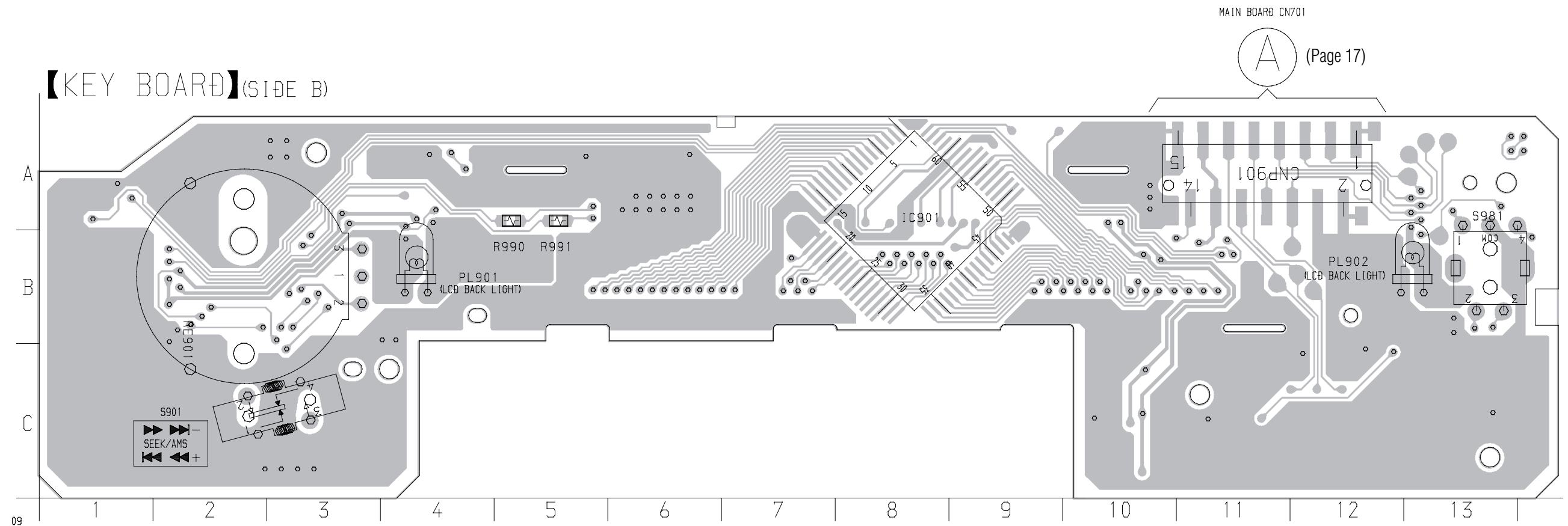
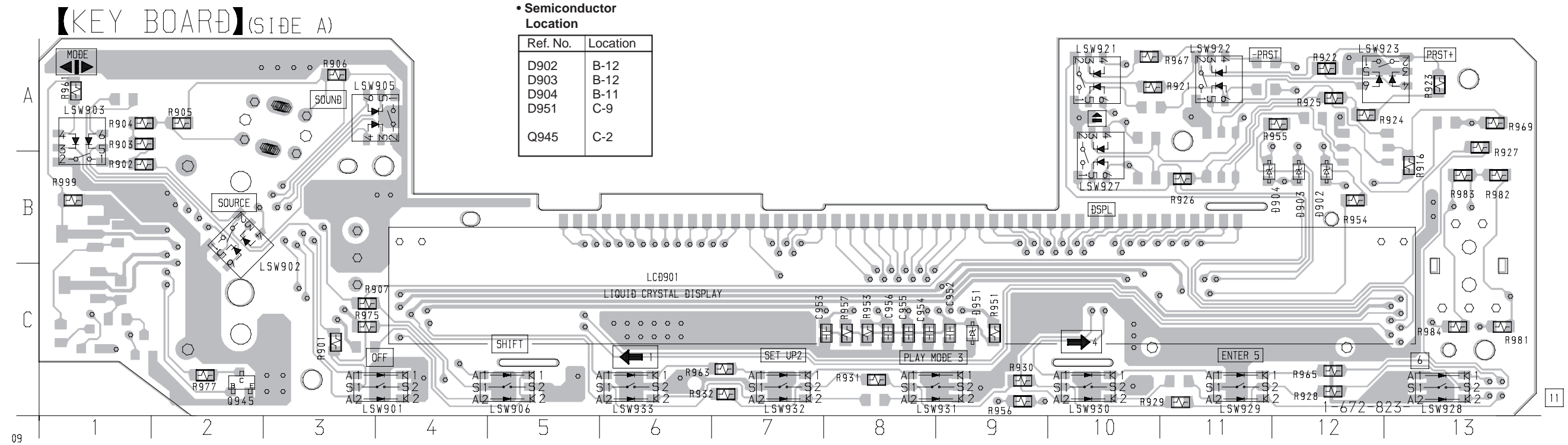
6-3. SCHEMATIC DIAGRAM — MAIN (2/2) SECTION —
• Refer to page 15 for IC Block Diagrams.



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 $\frac{1}{4}W$ or less unless otherwise specified.
- Δ : internal component.
- \square : panel designation.
- **B+** : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark : FM
< : TAPE PLAYBACK
* : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - \rightarrow : FM
 - \rightarrow : AM (MW)
 - \rightarrow : TAPE PLAYBACK
- Abbreviation
CND : Canadian model.

6-4. PRINTED WIRING BOARD — PANEL SECTION —



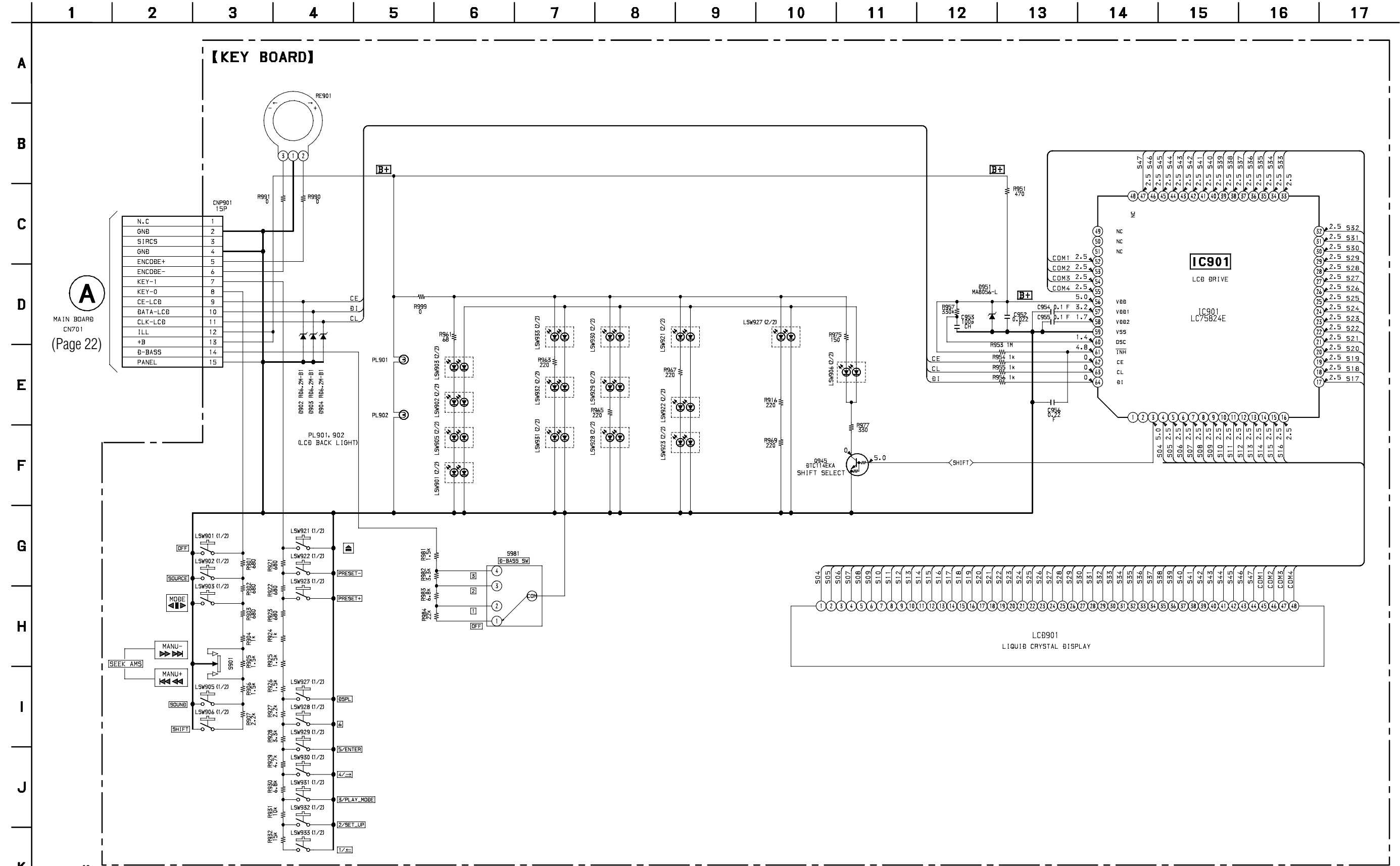
Note:

- : parts extracted from the component side.
- △ : internal component.
- ▨ : Pattern from the side which enables seeing.

• Semiconductor Location

Ref. No.	Location
IC901	A-8

6-4. SCHEMATIC DIAGRAM — PANEL SECTION —



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 $1/4\text{ W}$ or less unless otherwise specified.
- Δ : internal component.
- \square : panel designation.
- **B+** : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
 - no mark : FM
 - < > : TAPE PLAYBACK
 - * : Impossible to measure

- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - \square : FM
 - \blacktriangleright : AM (MW)
 - \square : TAPE PLAYBACK

6-6. IC PIN FUNCTION DESCRIPTION

• IC501 MASTER U-COM (MN101C12GTA1/MN101C12GTB)

Pin No.	Pin Name	I/O	Function
1	AVREF-	-	Basic voltage (- side) of AD conversion input
2	VSM	I	FM/AM common signal meter A/D conversion input terminal
3	KEYIN1	I	KEY (AD conversion) input
4	KEYIN0	I	
5	DBAS IN	I	Position detecting AD input terminal of D-BASS
6	DSTSEL	I	Terminal for setting to select the value of destination
7	FUNC-SEL	I	Function selecting (AD conversion) input
8	NCO	O	Not used
9	RCIN0	I	Rotary commander (AD conversion) input
10	AVREF+	I	Basic voltage (+side) of AD conversion input
11	VDD	-	Power supply
12	OSC OUT	-	Radiator (18.432 MHz) connecting terminal
13	OSC IN	-	
14	GND	-	Ground
15	XT IN	-	Sub clock (for clock) radiator (32 kHz) connecting terminal
16	XT OUT	-	
17	GND	-	Ground
18	RCIN1	I	Rotary commander shift input
19	$\overline{\text{SYSRST}}$	O	SYSTEM RESET control output
20	$\overline{\text{BUSON}}$	O	BUS ON control output
21	UNISO	O	Serial data output
22	UNISI	I	Serial data input
23	UNICKO	O	Serial clock output
24	UNICKI	I	Serial clock input
25	NCO	O	Not used
26	KEYACK	I	Key input acknowledge
27	$\overline{\text{NOSESW}}$	I	Removing/attaching front panel detection input
28	BU_IN	I	BACK-UP detection input terminal
29	SIRCS	I	Remote control input
30	TELMUT	I	TELEPHONE MUTE detection input
31	$\overline{\text{TESTIN}}$	I	Test mode setting input terminal
32	RAMBU	I	Reset detection input of RAM
33	$\overline{\text{RESET}}$	I	Reset input terminal
34	VOLMUT	O	Not used
35	BEEP	O	Control output for buzzer
36	$\overline{\text{AMPMUT}}$	O	Power amplifier mute control output terminal
37	AMPON	O	Power amplifier STANDBY control terminal
38	PLLCKD	O	PLL CLK output terminal
39	PLLCE	O	PLL CE output terminal
40	PLLSD	O	PLL DATA output terminal
41	PLLSI	I	PLL DATA input terminal
42	LCDSD	O	LCD serial data output
43	LCDCE	O	LCD chip enable output terminal
44	LCDCKD	O	LCD serial clock output
45	VOLSO	O	Electrical volume serial data output
46	NCO	O	Not used
47	VOLCKO	O	Electrical volume serial data output
48	$\overline{\text{ACCIN}}$	I	Accessory power supply detection input
49	MUT	O	System MUTE control output

Pin No.	Pin Name	I/O	Function
50	NCO	O	Not used
51	$\overline{\text{AMSON}}$	O	“L” is output in AMS mode
52	$\overline{\text{NROUT}}$	O	FOR/REV control output
53	MTLON	I/O	Metal control input/output
54	TAPMUT	O	Tape mute control output
55	DOLON	I/O	Dolby control input/output
56	$\overline{\text{AMSIN}}$	I	Input to detect existence of song during AMS mode
57 to 75	NCO	O	Not used
76	ST	I/O	Combination stereo input and monaural output
77	SD_IN	I	SIGNAL DETECTOR input terminal
78	REIN 1	I	Rotary encoder input terminal
79	REIN 0	I	
80	$\overline{\text{AD ON}}$	O	Power supply control output of AD conversion
81	PW SEL	I	Power selection initialise
82	ILLON	O	Illumination power supply control output
83	REL	I	Input to detect rotation of reel table
84	POS3	I	Tape position signal detection input
85	POS2	I	
86	POS0	I	
87	POS1	I	
88	LM LOD	O	Loading motor control output (to a direction of loading)
89	LM EJ	O	Loading motor control output (to a direction of ejection)
90	TAPON	O	TAPE power supply control output When ‘on’ is output, “H” is output, otherwise when ‘off’ is output, “L” is output.
91	CM ON	O	Capstan motor control signal output terminal of TAPE
92	PW ON	O	System power supply control output
93	FM ON	O	FM power supply control output terminal
94	TUNON	O	TUNER power supply control output terminal
95	DAVSS	–	Ground
96 to 99	NCO	O	Not used
100	DAVDD	–	Not used (Power supply for DA converter)

SECTION 7 EXPLODED VIEWS

NOTE:

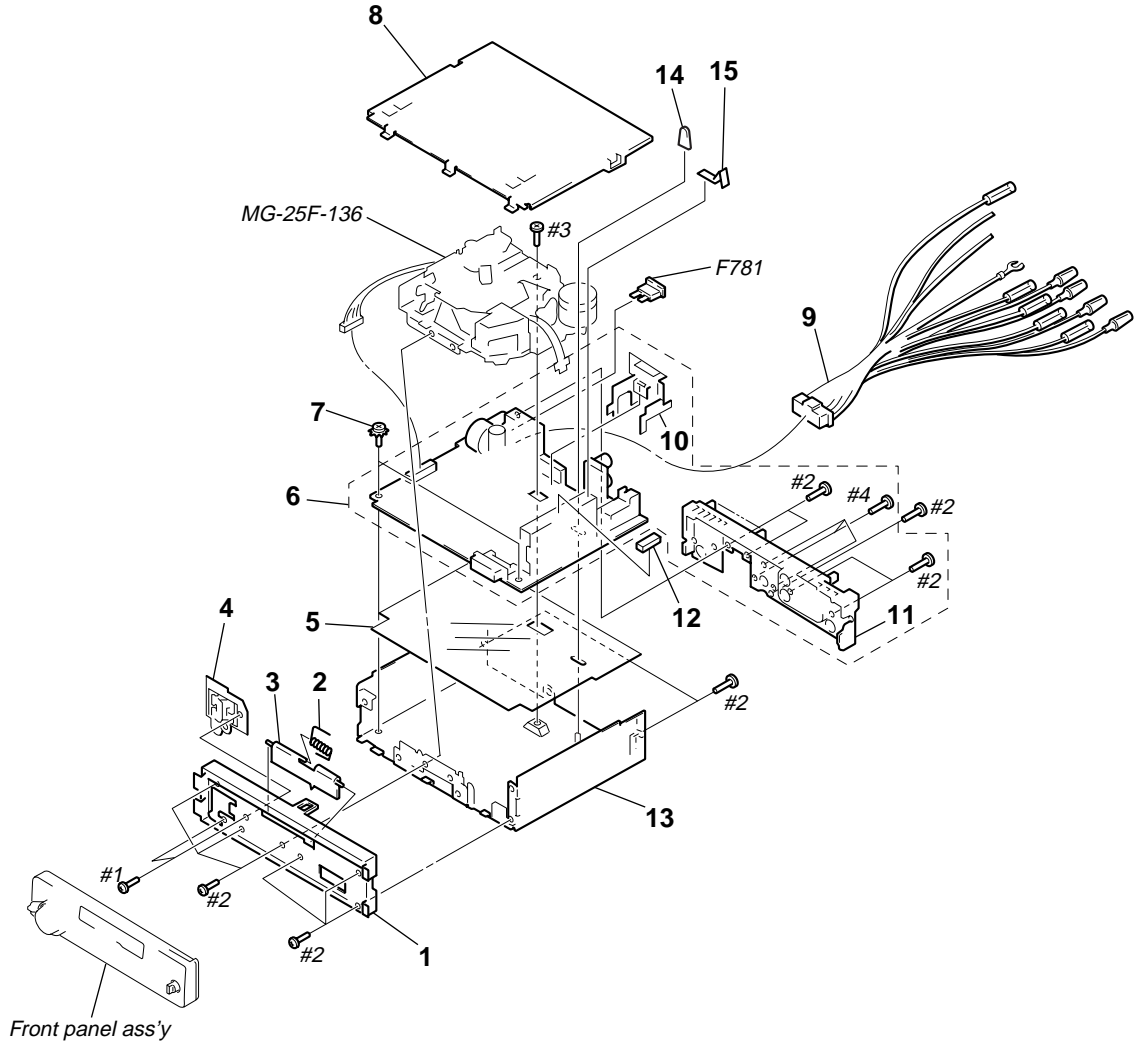
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Color Indication of Appearance Parts Example:
KNOB, BALANCE (WHITE) . . . (RED)

↑
↑
 Parts color Cabinets color

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

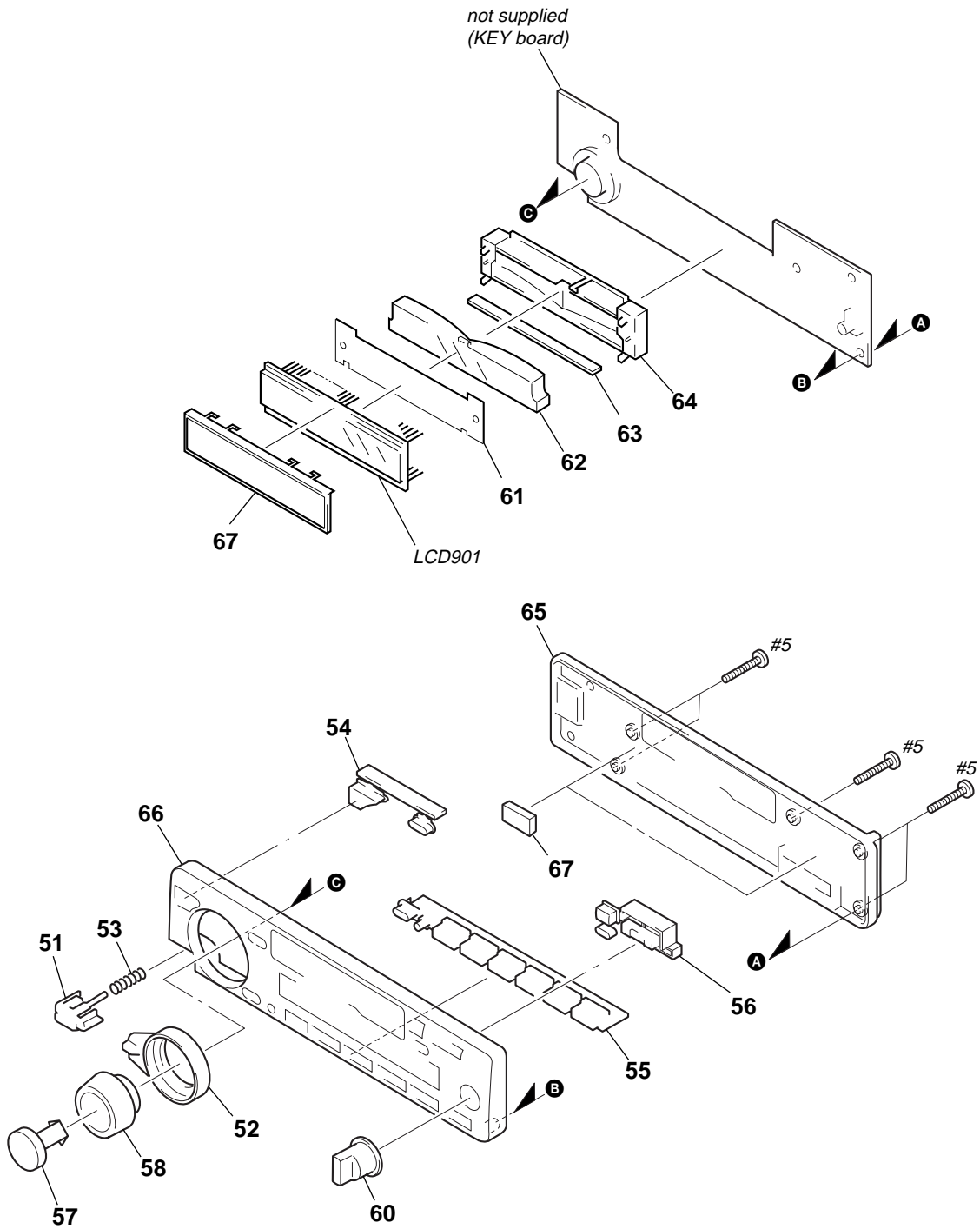
Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(1) CHASSIS SECTION



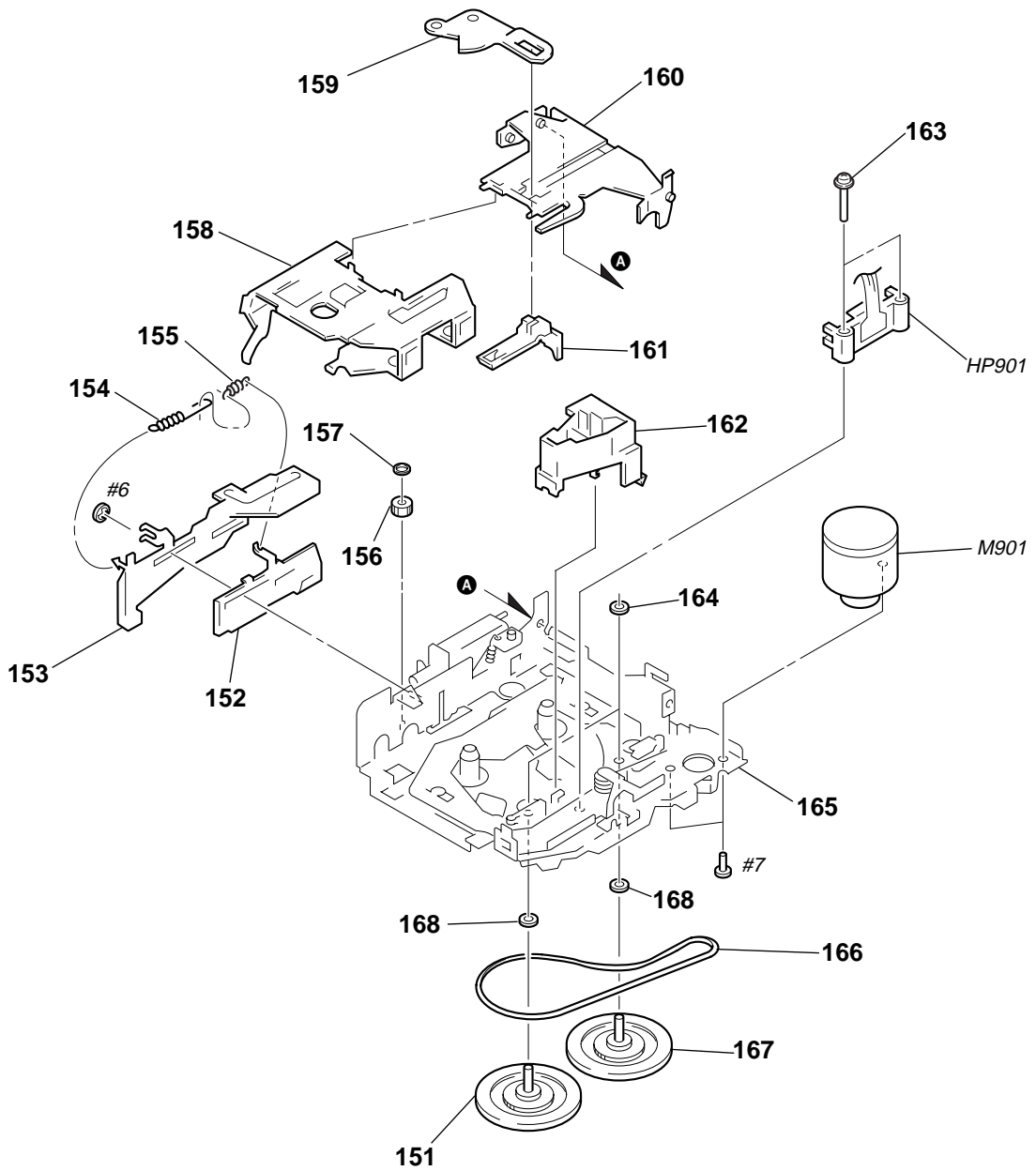
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-031-022-01	PANEL, SUB		* 11	3-031-026-01	HEAT SINK	
2	3-935-003-01	SPRING, TORSION		12	3-935-014-01	CUSHION (U)	
3	3-027-437-21	DOOR, CASSETTE		* 13	3-009-813-41	CHASSIS	
4	X-3370-437-1	LOCK ASSY		14	3-012-859-01	CAP (25), RUBBER	
* 5	3-033-846-01	INSULATED PLATE		15	3-937-650-01	PLATE (C), GROUND	
* 6	A-3317-387-A	MAIN BOARD, COMPLETE		F781	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE)(10A)	
7	3-915-923-01	SCREW, GROUND POINT		TU1	A-3220-689-A	TUNER UNIT TUX-010/2	
* 8	X-3373-270-1	COVER ASSY					
9	1-776-207-31	CORD (WITH CONNECTOR)(POWER)					
* 10	3-018-390-01	BRACKET (IC)					

(2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-030-838-01	BUTTON (RELEASE)		* 62	3-030-824-01	PLATE, LIGHT GUIDE	
52	3-030-832-01	LEVER (S/A)		63	1-694-508-11	CONDUCTIVE BOARD, CONNECTION	
53	3-932-475-01	SPRING (RELEASE)		* 64	3-030-825-01	HOLDER (LCD)	
54	3-030-834-01	BUTTON (M/S)		65	3-030-827-01	PANEL, FRONT BACK	
55	3-030-835-01	BUTTON (1-6)		66	X-3377-055-1	FRONT PANEL ASSY	
56	3-031-027-11	BUTTON (P/P/A)		* 67	3-030-840-01	PLATE (B), GROUND	
57	3-030-831-01	BUTTON (SOURCE)		LCD901	1-803-496-11	DISPLAY PANEL, LIQUID CRYSTAL	
58	3-030-830-01	KNOB (VOL)					
60	3-030-837-01	BUTTON (D-BASS)					
* 61	3-030-839-01	SHEET (REFLECTOR)					

(3) MECHANISM DECK SECTION (MG-25F-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-3301-267-A	CHASSIS, ASSY (G)	
156	3-020-542-01	GEAR (LOADING FT)		166	3-017-302-01	BELT (25)	
157	3-341-753-11	WASHER, POLYETHYLENE		167	3-936-853-01	FLYWHEEL (F)	
158	3-020-533-01	HOUSING		168	3-701-437-21	WASHER	
159	3-020-532-01	ARM (SUCTION)		HP901	1-500-157-21	HEAD, MAGNETIC (PLAYBACK)	
160	3-020-534-01	HANGER		M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)	

KEY

**SECTION 8
ELECTRICAL PARTS LIST**

Note:

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

Les composants identifiés par une marque Δ sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

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

- 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, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F : nonflammable
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA..., uPB...: μ PB...,
uPC...: μ PC..., uPD...: μ PD...
- CAPACITORS
uF : μ F
- COILS
uH : μ H
- Abbreviation
CND : Canadian model

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		KEY BOARD *****				< PILOT LAMP >	
	1-694-508-11	CONDUCTIVE BOARD, CONNECTION		PL901	1-517-633-21	LAMP, PILOT	
*	3-030-824-01	PLATE, LIGHT GUIDE		PL902	1-517-633-21	LAMP, PILOT	
*	3-030-825-01	HOLDER (LCD)				< TRANSISTOR >	
*	3-030-839-01	SHEET (REFLECTOR)					
*	3-030-840-01	PLATE (B), GROUND		Q945	8-729-900-53	TRANSISTOR DTC114EK	
		< CAPACITOR >				< RESISTOR >	
	C952	1-163-033-00 CERAMIC CHIP 0.022uF	50V	R901	1-216-647-11	METAL CHIP 680	0.5% 1/10W
	C953	1-163-251-11 CERAMIC CHIP 100PF 5%	50V	R902	1-216-647-11	METAL CHIP 680	0.5% 1/10W
	C954	1-165-319-11 CERAMIC CHIP 0.1uF	50V	R903	1-216-647-11	METAL CHIP 680	0.5% 1/10W
	C955	1-165-319-11 CERAMIC CHIP 0.1uF	50V	R904	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
	C956	1-164-222-11 CERAMIC CHIP 0.22uF	25V	R905	1-216-655-11	METAL CHIP 1.5K	0.5% 1/10W
		< CONNECTOR >		R906	1-216-655-11	METAL CHIP 1.5K	0.5% 1/10W
	CNP901	1-785-775-11 PIN, CONNECTOR 15P		R907	1-216-659-11	METAL CHIP 2.2K	0.5% 1/10W
		< DIODE >		R916	1-216-033-00	METAL CHIP 220	5% 1/10W
	D902	8-719-105-99 DIODE RD6.2M-B1		R921	1-216-647-11	METAL CHIP 680	0.5% 1/10W
	D903	8-719-105-99 DIODE RD6.2M-B1		R922	1-216-647-11	METAL CHIP 680	0.5% 1/10W
	D904	8-719-105-99 DIODE RD6.2M-B1					
	D951	8-719-422-49 DIODE MA8056-L		R923	1-216-647-11	METAL CHIP 680	0.5% 1/10W
		< IC >		R924	1-216-651-11	METAL CHIP 1K	0.5% 1/10W
	IC901	8-759-366-34 IC LC75824E		R925	1-216-655-11	METAL CHIP 1.5K	0.5% 1/10W
		< LIQUID CRYSTAL DISPLAY >		R926	1-216-655-11	METAL CHIP 1.5K	0.5% 1/10W
	LCD901	1-803-496-11 DISPLAY PANEL, LIQUID CRYSTAL		R927	1-216-659-11	METAL CHIP 2.2K	0.5% 1/10W
		< SWITCH >					
	LSW901	1-771-609-11 SWITCH, TACTILE (WITH LED)(OFF)		R928	1-216-663-11	METAL CHIP 3.3K	0.5% 1/10W
	LSW902	1-762-619-21 SWITCH, KEY BOARD (WITH LED)(SOURCE)		R929	1-216-667-11	METAL CHIP 4.7K	0.5% 1/10W
	LSW903	1-762-619-21 SWITCH, KEY BOARD (WITH LED)(MODE ◀▶)		R930	1-216-671-11	METAL CHIP 6.8K	0.5% 1/10W
	LSW905	1-762-619-21 SWITCH, KEY BOARD (WITH LED)(SOUND)		R931	1-208-806-11	RES,CHIP 10K	2% 1/10W
	LSW906	1-762-619-21 SWITCH, KEY BOARD (WITH LED)(SHIFT)		R932	1-208-810-11	RES,CHIP 15K	2% 1/10W
	LSW921	1-762-619-21 SWITCH, KEY BOARD (WITH LED)(EJECT ▲)					
	LSW922	1-762-619-21 SWITCH, KEY BOARD (WITH LED) (PRESET/-)		R951	1-216-041-00	METAL CHIP 470	5% 1/10W
	LSW923	1-762-619-21 SWITCH, KEY BOARD (WITH LED) (PRESET/+)		R953	1-216-121-00	RES,CHIP 1M	5% 1/10W
	LSW927	1-762-619-21 SWITCH, KEY BOARD (WITH LED)(DSPL)		R954	1-216-049-11	RES,CHIP 1K	5% 1/10W
	LSW928	1-771-609-11 SWITCH, TACTILE (WITH LED)(6)		R955	1-216-049-11	RES,CHIP 1K	5% 1/10W
	LSW929	1-771-609-11 SWITCH, TACTILE (WITH LED)(5/ENTER)		R956	1-216-049-11	RES,CHIP 1K	5% 1/10W
	LSW930	1-771-609-11 SWITCH, TACTILE (WITH LED)(4/→)					
	LSW931	1-771-609-11 SWITCH, TACTILE (WITH LED)(3/PLAY MODE)		R957	1-216-109-00	METAL CHIP 330K	5% 1/10W
	LSW932	1-771-609-11 SWITCH, TACTILE (WITH LED)(2/SET UP)		R961	1-216-021-00	METAL CHIP 68	5% 1/10W
	LSW933	1-771-609-11 SWITCH, TACTILE (WITH LED)(1/←)		R963	1-216-033-00	METAL CHIP 220	5% 1/10W
				R965	1-216-033-00	METAL CHIP 220	5% 1/10W
				R967	1-216-033-00	METAL CHIP 220	5% 1/10W
				R969	1-216-033-00	METAL CHIP 220	5% 1/10W
				R975	1-216-029-00	METAL CHIP 150	5% 1/10W
				R977	1-216-037-00	METAL CHIP 330	5% 1/10W
				R981	1-216-655-11	METAL CHIP 1.5K	0.5% 1/10W
				R982	1-216-663-11	METAL CHIP 3.3K	0.5% 1/10W
				R983	1-216-671-11	METAL CHIP 6.8K	0.5% 1/10W
				R984	1-216-081-00	METAL CHIP 22K	5% 1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R990	1-216-295-00	SHORT	0	C101	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
R991	1-216-295-00	SHORT	0	C102	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
R999	1-216-295-00	SHORT	0	C103	1-163-021-11	CERAMIC CHIP 0.01uF	10% 50V
		< ROTARY ENCODER >		C104	1-164-489-11	CERAMIC CHIP 0.22uF	10% 16V
RE901	1-475-014-11	ENCODER, ROTARY		C105	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
		< SWITCH >		C106	1-164-505-11	CERAMIC CHIP 2.2uF	16V
S901	1-771-290-11	SWITCH, SLIDE (SEEK/AMS/MENU +/-)		C107	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
S981	1-762-937-11	SWITCH, ROTARY (D-BASS)		C108	1-164-505-11	CERAMIC CHIP 2.2uF	16V
*****				C109	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
*	A-3317-387-A	MAIN BOARD, COMPLETE		C110	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
		*****		C111	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
*	3-018-390-01	BRACKET (IC)		C121	1-107-823-11	CERAMIC CHIP 0.47uF	10% 16V
*	3-031-026-01	HEAT SINK		C122	1-163-021-11	CERAMIC CHIP 0.01uF	10% 50V
	7-685-794-09	SCREW +PTT 2.6X10 (S)		C124	1-107-823-11	CERAMIC CHIP 0.47uF	10% 16V
		< CAPACITOR >		C151	1-163-986-00	CERAMIC CHIP 0.027uF	10% 25V
C1	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	C152	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C2	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C153	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C3	1-124-234-00	ELECT 22uF	20% 16V	C171	1-126-163-11	ELECT 4.7uF	20% 50V
C4	1-124-233-11	ELECT 10uF	20% 16V	C172	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C5	1-124-234-00	ELECT 22uF	20% 16V	C174	1-164-489-11	CERAMIC CHIP 0.22uF	10% 16V
C6	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V	C181	1-126-163-11	ELECT 4.7uF	20% 50V
C7	1-163-021-11	CERAMIC CHIP 0.01uF	10% 50V	C182	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C8	1-163-021-11	CERAMIC CHIP 0.01uF	10% 50V	C183	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C9	1-163-205-00	CERAMIC CHIP 0.001uF	5% 50V	C184	1-164-489-11	CERAMIC CHIP 0.22uF	10% 16V
C10	1-163-205-00	CERAMIC CHIP 0.001uF	5% 50V	C191	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V
C11	1-163-009-11	CERAMIC CHIP 0.001uF	10% 50V	C201	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
C12	1-164-489-11	CERAMIC CHIP 0.22uF	10% 16V	C202	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
C21	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C203	1-163-021-11	CERAMIC CHIP 0.01uF	10% 50V
C22	1-163-021-11	CERAMIC CHIP 0.01uF	10% 50V	C204	1-164-489-11	CERAMIC CHIP 0.22uF	10% 16V
C23	1-124-234-00	ELECT 22uF	20% 16V	C205	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C24	1-163-021-11	CERAMIC CHIP 0.01uF	10% 50V	C206	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C25	1-163-091-00	CERAMIC CHIP 8PF	50V	C207	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
C26	1-124-233-11	ELECT 10uF	20% 16V	C208	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C27	1-163-222-11	CERAMIC CHIP 5PF	0.25PF 50V	C209	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C28	1-163-231-11	CERAMIC CHIP 15PF	5% 50V	C210	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C29	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C211	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C30	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C251	1-163-986-00	CERAMIC CHIP 0.027uF	10% 25V
C31	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C252	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C32	1-163-017-00	CERAMIC CHIP 0.0047uF	5% 50V	C253	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C33	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	C271	1-126-163-11	ELECT 4.7uF	20% 50V
C34	1-109-982-11	CERAMIC CHIP 1uF	10% 10V	C272	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C35	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	C274	1-164-489-11	CERAMIC CHIP 0.22uF	10% 16V
C36	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C281	1-126-163-11	ELECT 4.7uF	20% 50V
C37	1-124-233-11	ELECT 10uF	20% 16V	C282	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C38	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	C283	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C39	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C284	1-164-489-11	CERAMIC CHIP 0.22uF	10% 16V
C41	1-163-021-11	CERAMIC CHIP 0.01uF	10% 50V	C301	1-124-234-00	ELECT 22uF	20% 16V
C51	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V	C303	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C52	1-124-233-11	ELECT 10uF	20% 16V	C304	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
C53	1-124-234-00	ELECT 22uF	20% 16V	C305	1-107-823-11	CERAMIC CHIP 0.47uF	10% 16V
C54	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V	C306	1-163-021-11	CERAMIC CHIP 0.01uF	10% 50V
C55	1-124-234-00	ELECT 22uF	20% 16V	C307	1-163-021-11	CERAMIC CHIP 0.01uF	10% 50V
C56	1-124-234-00	ELECT 22uF	20% 16V	C333	1-124-233-11	ELECT 10uF	20% 16V
				C334	1-163-021-11	CERAMIC CHIP 0.01uF	10% 50V
				C335	1-124-584-00	ELECT 100uF	20% 10V
				C336	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
				C337	1-124-234-00	ELECT 22uF	20% 16V

MAIN

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description	Remark
C351	1-165-319-11	CERAMIC CHIP	0.1uF	50V			< DIODE >	
C352	1-165-319-11	CERAMIC CHIP	0.1uF	50V				
C353	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	D1	8-719-991-65	DIODE SB02W03C
C354	1-124-233-11	ELECT	10uF	20%	16V	D51	8-719-158-15	DIODE RD5.6S-B
C355	1-124-234-00	ELECT	22uF	20%	16V	D52	8-719-422-97	DIODE MA8091-M
C356	1-126-934-11	ELECT	220uF	20%	16V	D351	8-719-977-22	DIODE DTZ9.1
C357	1-165-319-11	CERAMIC CHIP	0.1uF	50V		D352	8-719-911-19	DIODE 1SS119
C358	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	D501	8-719-400-20	DIODE MA152WA
C501	1-124-584-00	ELECT	100uF	20%	10V	D551	8-719-400-20	DIODE MA152WA
C502	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	D552	8-719-404-50	DIODE MA111-TX
C503	1-163-231-11	CERAMIC CHIP	15PF	5%	50V	D553	8-719-404-50	DIODE MA111-TX
C504	1-163-231-11	CERAMIC CHIP	15PF	5%	50V	D554	8-719-072-70	DIODE MA2ZD14001SO
C505	1-163-229-11	CERAMIC CHIP	12PF	5%	50V	D571	8-719-057-80	DIODE MA8160-M-TX
C506	1-163-229-11	CERAMIC CHIP	12PF	5%	50V	D572	8-719-420-14	DIODE MA8082-M
C507	1-163-213-00	CERAMIC CHIP	0.0022uF	5%	50V	D581	8-719-057-80	DIODE MA8160-M-TX
C508	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	D591	8-719-422-76	DIODE MA8075-M
C551	1-125-710-11	DOUBLE LAYER	0.1F	0	5.5V	D601	8-719-423-32	DIODE MA8120-M
C552	1-128-057-11	ELECT	330uF	20%	6.3V	D610	8-719-970-02	DIODE 1SR139-400
C553	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	D611	8-719-970-02	DIODE 1SR139-400
C556	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	D613	8-719-970-02	DIODE 1SR139-400
C571	1-126-163-11	ELECT	4.7uF	20%	50V	D614	8-719-970-02	DIODE 1SR139-400
C582	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	D621	8-719-422-12	DIODE MA8039
C601	1-164-346-11	CERAMIC CHIP	1uF	16V		D622	8-719-404-50	DIODE MA111-TX
C602	1-164-346-11	CERAMIC CHIP	1uF	16V		D623	8-719-422-12	DIODE MA8039
C611	1-124-233-11	ELECT	10uF	20%	16V	D624	8-719-422-97	DIODE MA8091-M
C612	1-124-233-11	ELECT	10uF	20%	16V	D701	8-719-977-12	DIODE DTZ6.8B
C614	1-124-233-11	ELECT	10uF	20%	16V	D702	8-719-158-15	DIODE RD5.6S-B
C615	1-124-233-11	ELECT	10uF	20%	16V	D704	8-719-158-15	DIODE RD5.6S-B
C616	1-124-233-11	ELECT	10uF	20%	16V	D705	8-719-035-74	DIODE MA4062-M(TA)
C617	1-124-233-11	ELECT	10uF	20%	16V	D706	8-719-035-74	DIODE MA4062-M(TA)
C618	1-164-506-11	CERAMIC CHIP	4.7uF	16V		D707	8-719-035-74	DIODE MA4062-M(TA)
C621	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V	D708	8-719-105-99	DIODE RD6.2M-B1
C622	1-124-589-11	ELECT	47uF	20%	16V	D709	8-719-035-74	DIODE MA4062-M(TA)
C623	1-164-506-11	CERAMIC CHIP	4.7uF	16V		D710	8-719-977-12	DIODE DTZ6.8B
C751	1-126-096-11	ELECT	10uF	20%	35V	D711	8-719-423-32	DIODE MA8120-M
C752	1-107-682-11	CERAMIC CHIP	1uF	10%	16V	D712	8-719-404-50	DIODE MA111-TX
C754	1-124-233-11	ELECT	10uF	20%	16V	D713	8-719-404-50	DIODE MA111-TX
C755	1-124-589-11	ELECT	47uF	20%	16V	D721	8-719-970-02	DIODE 1SR139-400
C757	1-124-233-11	ELECT	10uF	20%	16V	D722	8-719-970-02	DIODE 1SR139-400
C781	1-126-936-11	ELECT	3300uF	20%	16V	D723	8-719-970-02	DIODE 1SR139-400
C782	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V	D724	8-719-970-02	DIODE 1SR139-400
C783	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V	D731	8-719-970-02	DIODE 1SR139-400
C784	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V	D732	8-719-970-02	DIODE 1SR139-400
C786	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	D733	8-719-970-02	DIODE 1SR139-400
C787	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	D734	8-719-970-02	DIODE 1SR139-400
C788	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V	D781	8-719-049-38	DIODE 1N5404TU
C789	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V			< IC >
C790	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V	IC21	8-759-573-79	IC TB2118F(EL)
C792	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V	IC21	8-759-586-59	IC TB2118F-EL-S
C795	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V	IC301	8-752-079-78	IC CXA2509AQ-T4
		< CONNECTOR >				IC331	8-759-572-10	IC TDA7462D
CN301	1-766-260-11	CONNECTOR, FFC/FPC (ZIF) 7P				IC351	8-759-527-33	IC LB1930M-TLM
* CN351	1-506-995-11	PIN, CONNECTOR (PC BOARD) 13P				IC501	8-759-585-76	IC MN101C12GTA2
CN701	1-785-774-11	PLUG, CONNECTOR 15P				IC551	8-759-574-61	IC XC61AN4302MR
CN781	1-774-701-11	PIN, CONNECTOR 16P				IC611	8-759-347-49	IC BA3918-V2
						IC751	8-759-490-74	IC TDA7384
						IC751	8-759-572-08	IC TDA7385

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< JACK >				< JUMPER RESISTOR >	
J1	1-764-808-21	JACK (ANT)		JW1	7-685-793-09	SCREW +PTT 2.6X8 (S)	
J331	1-774-698-11	JACK, PIN 2P		JW2	7-685-793-09	SCREW +PTT 2.6X8 (S)	
J561	1-566-822-41	JACK				< COIL >	
		< JUMPER RESISTOR >					
JC1	1-216-296-00	SHORT	0	L2	1-469-132-21	FERRITE BLM21B1515B	
JC2	1-216-296-00	SHORT	0	L3	1-410-501-11	INDUCTOR 2.2uH	
JC3	1-216-296-00	SHORT	0	L4	1-410-501-11	INDUCTOR 2.2uH	
JC4	1-216-296-00	SHORT	0	L21	1-410-509-11	INDUCTOR 10uH	
JC7	1-216-296-00	SHORT	0				
JC21	1-216-296-00	SHORT	0	L22	1-410-989-11	INDUCTOR CHIP 0.47uH	
JC22	1-216-295-00	SHORT	0	L781	1-411-669-12	INDUCTOR 0uH	
JC25	1-216-296-00	SHORT	0	L781	1-411-669-21	INDUCTOR 0uH	
JC26	1-216-295-00	SHORT	0			< TRANSISTOR >	
JC31	1-216-296-00	SHORT	0				
JC32	1-216-296-00	SHORT	0	Q51	8-729-106-68	TRANSISTOR 2SD1615A-GP	
JC52	1-216-295-00	SHORT	0	Q52	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JC121	1-216-295-00	SHORT	0	Q121	8-729-920-21	TRANSISTOR DTC314TKH04	
JC151	1-216-295-00	SHORT	0	Q151	8-729-920-21	TRANSISTOR DTC314TKH04	
JC152	1-216-295-00	SHORT	0	Q171	8-729-920-21	TRANSISTOR DTC314TKH04	
JC181	1-216-296-00	SHORT	0	Q181	8-729-920-21	TRANSISTOR DTC314TKH04	
JC182	1-216-295-00	SHORT	0	Q251	8-729-920-21	TRANSISTOR DTC314TKH04	
JC191	1-216-296-00	SHORT	0	Q271	8-729-920-21	TRANSISTOR DTC314TKH04	
JC192	1-216-296-00	SHORT	0	Q281	8-729-920-21	TRANSISTOR DTC314TKH04	
JC272	1-216-296-00	SHORT	0	Q351	8-729-015-11	TRANSISTOR 2SD1802FAST-LT	
JC301	1-216-295-00	SHORT	0				
JC302	1-216-295-00	SHORT	0	Q352	8-729-020-67	TRANSISTOR XN1A312-TX	
JC303	1-216-295-00	SHORT	0	Q353	8-729-900-53	TRANSISTOR DTC114EK	
JC304	1-216-295-00	SHORT	0	Q354	8-729-106-60	TRANSISTOR 2SB1115A	
JC305	1-216-296-00	SHORT	0	Q551	8-729-027-23	TRANSISTOR DTA114EKA-T146	
JC331	1-216-296-00	SHORT	0	Q571	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JC332	1-216-296-00	SHORT	0				
JC351	1-216-295-00	SHORT	0	Q581	8-729-900-53	TRANSISTOR DTC114EK	
JC352	1-216-295-00	SHORT	0	Q591	1-801-806-11	TRANSISTOR DTC144EKA-T146	
JC354	1-216-296-00	SHORT	0	Q592	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JC356	1-216-296-00	SHORT	0	Q601	8-729-423-99	TRANSISTOR 2SD2137-OP	
JC501	1-216-295-00	SHORT	0	Q602	8-729-020-67	TRANSISTOR XN1A312-TX	
JC502	1-216-295-00	SHORT	0				
JC503	1-216-296-00	SHORT	0	Q621	8-729-027-23	TRANSISTOR DTA114EKA-T146	
JC504	1-216-296-00	SHORT	0	Q622	8-729-021-94	TRANSISTOR 2SK1657-T1B	
JC506	1-216-296-00	SHORT	0			< RESISTOR >	
JC507	1-216-295-00	SHORT	0	R1	1-216-049-11	RES,CHIP 1K 5% 1/10W	
JC508	1-216-295-00	SHORT	0	R2	1-216-073-00	METAL CHIP 10K 5% 1/10W	
JC551	1-216-295-00	SHORT	0	R3	1-216-174-00	RES,CHIP 100 5% 1/8W	
JC571	1-216-296-00	SHORT	0	R4	1-216-113-00	METAL CHIP 470K 5% 1/10W	
JC601	1-216-296-00	SHORT	0	R5	1-216-254-00	RES,CHIP 220K 5% 1/8W	
JC611	1-216-296-00	SHORT	0				
JC621	1-216-296-00	SHORT	0	R6	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
JC622	1-216-296-00	SHORT	0	R8	1-216-081-00	METAL CHIP 22K 5% 1/10W	
JC705	1-216-296-00	SHORT	0	R9	1-216-049-11	RES,CHIP 1K 5% 1/10W	
JC751	1-216-296-00	SHORT	0	R10	1-216-049-11	RES,CHIP 1K 5% 1/10W	
JC752	1-216-295-00	SHORT	0	R11	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
JC781	1-216-296-00	SHORT	0				
JC782	1-216-295-00	SHORT	0	R12	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
JC992	1-216-296-00	SHORT	0	R21	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
				R23	1-249-417-11	CARBON 1K 5% 1/4W F	
				R24	1-249-417-11	CARBON 1K 5% 1/4W F	
				R25	1-249-417-11	CARBON 1K 5% 1/4W F	
				R26	1-249-417-11	CARBON 1K 5% 1/4W F	
				R27	1-216-077-00	METAL CHIP 15K 5% 1/10W	
				R28	1-216-075-00	METAL CHIP 12K 5% 1/10W	

MAIN

Ref. No.	Part No.	Description			Remark
R29	1-216-025-00	RES,CHIP	100	5%	1/10W
R30	1-216-049-11	RES,CHIP	1K	5%	1/10W
R31	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R32	1-216-073-00	METAL CHIP	10K	5%	1/10W
R34	1-216-041-00	METAL CHIP	470	5%	1/10W
R51	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R52	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R101	1-216-041-00	METAL CHIP	470	5%	1/10W
R102	1-216-109-00	METAL CHIP	330K	5%	1/10W
R103	1-216-077-00	METAL CHIP	15K	5%	1/10W
R104	1-216-079-00	METAL CHIP	18K	5%	1/10W
R107	1-216-073-00	METAL CHIP	10K	5%	1/10W
R108	1-216-081-00	METAL CHIP	22K	5%	1/10W
R121	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R151	1-249-421-11	CARBON	2.2K	5%	1/4W F
R152	1-216-073-00	METAL CHIP	10K	5%	1/10W
R171	1-216-033-00	METAL CHIP	220	5%	1/10W
R172	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R174	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
R175	1-216-085-00	METAL CHIP	33K	5%	1/10W
R181	1-216-033-00	METAL CHIP	220	5%	1/10W
R182	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R184	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
R185	1-216-085-00	METAL CHIP	33K	5%	1/10W
R191	1-249-429-11	CARBON	10K	5%	1/4W
R192	1-216-105-00	RES,CHIP	220K	5%	1/10W
R201	1-216-041-00	METAL CHIP	470	5%	1/10W
R202	1-216-109-00	METAL CHIP	330K	5%	1/10W
R203	1-216-077-00	METAL CHIP	15K	5%	1/10W
R204	1-216-079-00	METAL CHIP	18K	5%	1/10W
R205	1-216-073-00	METAL CHIP	10K	5%	1/10W
R206	1-216-081-00	METAL CHIP	22K	5%	1/10W
R251	1-249-421-11	CARBON	2.2K	5%	1/4W F
R252	1-216-073-00	METAL CHIP	10K	5%	1/10W
R271	1-216-033-00	METAL CHIP	220	5%	1/10W
R272	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R274	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
R275	1-216-085-00	METAL CHIP	33K	5%	1/10W
R281	1-216-033-00	METAL CHIP	220	5%	1/10W
R282	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R284	1-216-278-11	RES,CHIP	2.2M	5%	1/8W
R285	1-216-085-00	METAL CHIP	33K	5%	1/10W
R301	1-208-812-11	RES,CHIP	18K	2%	1/10W
R302	1-216-097-00	RES,CHIP	100K	5%	1/10W
R303	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R304	1-216-077-00	METAL CHIP	15K	5%	1/10W
R305	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R306	1-216-105-00	RES,CHIP	220K	5%	1/10W
R331	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R351	1-216-049-11	RES,CHIP	1K	5%	1/10W
R352	1-249-383-11	CARBON	1.5	5%	1/6W F
R353	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R354	1-216-073-00	METAL CHIP	10K	5%	1/10W
R500	1-216-097-00	RES,CHIP	100K	5%	1/10W
R501	1-216-097-00	RES,CHIP	100K	5%	1/10W
R502	1-216-097-00	RES,CHIP	100K	5%	1/10W
R503	1-216-049-11	RES,CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R504	1-216-049-11	RES,CHIP	1K	5%	1/10W
R505	1-216-049-11	RES,CHIP	1K	5%	1/10W
R506	1-216-049-11	RES,CHIP	1K	5%	1/10W
R507	1-249-417-11	CARBON	1K	5%	1/4W F
R508	1-249-417-11	CARBON	1K	5%	1/4W F
R509	1-249-417-11	CARBON	1K	5%	1/4W F
R510	1-247-807-31	CARBON	100	5%	1/4W
R511	1-216-206-00	RES,CHIP	2.2K	5%	1/8W
R512	1-216-246-00	RES,CHIP	100K	5%	1/8W
R513	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R514	1-247-807-31	CARBON	100	5%	1/4W
R517	1-216-246-00	RES,CHIP	100K	5%	1/8W
R518	1-216-097-00	RES,CHIP	100K	5%	1/10W
R519	1-216-097-00	RES,CHIP	100K	5%	1/10W
R520	1-216-049-11	RES,CHIP	1K	5%	1/10W
R521	1-216-049-11	RES,CHIP	1K	5%	1/10W
R523	1-216-049-11	RES,CHIP	1K	5%	1/10W
R525	1-216-097-00	RES,CHIP	100K	5%	1/10W
R526	1-216-097-00	RES,CHIP	100K	5%	1/10W
R527	1-216-097-00	RES,CHIP	100K	5%	1/10W
R528	1-216-097-00	RES,CHIP	100K	5%	1/10W
R529	1-216-097-00	RES,CHIP	100K	5%	1/10W
R530	1-216-246-00	RES,CHIP	100K	5%	1/8W
R532	1-216-097-00	RES,CHIP	100K	5%	1/10W
R534	1-216-222-00	RES,CHIP	10K	5%	1/8W
R535	1-249-417-11	CARBON	1K	5%	1/4W F
R537	1-216-097-00	RES,CHIP	100K	5%	1/10W
R538	1-216-033-00	METAL CHIP	220	5%	1/10W
R539	1-216-097-00	RES,CHIP	100K	5%	1/10W
R540	1-216-246-00	RES,CHIP	100K	5%	1/8W
R541	1-216-097-00	RES,CHIP	100K	5%	1/10W
R542	1-216-097-00	RES,CHIP	100K	5%	1/10W
R544	1-216-049-11	RES,CHIP	1K	5%	1/10W
R545	1-216-174-00	RES,CHIP	100	5%	1/8W
R546	1-216-246-00	RES,CHIP	100K	5%	1/8W
R547	1-216-049-11	RES,CHIP	1K	5%	1/10W
R548	1-216-049-11	RES,CHIP	1K	5%	1/10W
R549	1-216-097-00	RES,CHIP	100K	5%	1/10W
R550	1-216-097-00	RES,CHIP	100K	5%	1/10W
R551	1-216-097-00	RES,CHIP	100K	5%	1/10W
R553	1-216-246-00	RES,CHIP	100K	5%	1/8W
R554	1-216-097-00	RES,CHIP	100K	5%	1/10W
R555	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R556	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R557	1-216-049-11	RES,CHIP	1K	5%	1/10W
R558	1-216-035-00	METAL CHIP	270	5%	1/10W
R561	1-216-073-00	METAL CHIP	10K	5%	1/10W
R562	1-208-806-11	RES,CHIP	10K	0.50%	1/10W
R563	1-216-025-00	RES,CHIP	100	5%	1/10W
R564	1-216-025-00	RES,CHIP	100	5%	1/10W
R571	1-216-089-00	RES,CHIP	47K	5%	1/10W
R572	1-216-089-00	RES,CHIP	47K	5%	1/10W
R573	1-249-421-11	CARBON	2.2K	5%	1/4W F
R574	1-216-081-00	METAL CHIP	22K	5%	1/10W
R581	1-216-089-00	RES,CHIP	47K	5%	1/10W
R590	1-216-246-00	RES,CHIP	100K	5%	1/8W
R591	1-216-089-00	RES,CHIP	47K	5%	1/10W

Ref. No.	Part No.	Description	Remark
R592	1-216-089-00	RES,CHIP	47K 5% 1/10W
R593	1-216-089-00	RES,CHIP	47K 5% 1/10W
R601	1-249-393-11	CARBON	10 5% 1/4W F
R602	1-249-395-11	CARBON	15 5% 1/4W F
R603	1-216-186-00	RES,CHIP	330 5% 1/8W
R621	1-249-425-11	CARBON	4.7K 5% 1/4W F
R622	1-216-073-00	METAL CHIP	10K 5% 1/10W
R702	1-216-025-00	RES,CHIP	100 5% 1/10W
R703	1-216-025-00	RES,CHIP	100 5% 1/10W
R704	1-216-295-00	SHORT	0
R705	1-216-295-00	SHORT	0
R706	1-216-049-11	RES,CHIP	1K 5% 1/10W
R707	1-216-049-11	RES,CHIP	1K 5% 1/10W
R708	1-216-198-00	RES,CHIP	1K 5% 1/8W
R709	1-216-174-00	RES,CHIP	100 5% 1/8W
R710	1-216-174-00	RES,CHIP	100 5% 1/8W
R711	1-216-049-11	RES,CHIP	1K 5% 1/10W
R712	1-216-049-11	RES,CHIP	1K 5% 1/10W
R713	1-216-025-00	RES,CHIP	100 5% 1/10W
R714	1-216-025-00	RES,CHIP	100 5% 1/10W
R751	1-216-049-11	RES,CHIP	1K 5% 1/10W
R753	1-216-049-11	RES,CHIP	1K 5% 1/10W
R781	1-216-081-00	METAL CHIP	22K 5% 1/10W
R782	1-216-230-00	RES,CHIP	22K 5% 1/8W
		< SWITCH >	
S501	1-571-478-11	SWITCH, SLIDE (POWER SELECT)	
S551	1-692-431-21	SWITCH, TACTILE (RESET SW)	
		< TUNER >	
TU01	A-3220-689-A	TUNER UNIT TUX-010/2	
		< VIBRATOR >	
X501	1-781-294-21	VIBRATOR, CRYSTAL (18.432MHz)	
X502	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)	

MISCELLANEOUS

9	1-776-207-31	CORD (WITH CONNECTOR)(POWER)
63	1-694-508-11	CONDUCTIVE BOARD, CONNECTION
507	1-776-207-31	CORD (WITH CONNECTOR)(POWER)
F781	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE)(10A)
HP901	1-500-157-21	HEAD, MAGNETIC (PLAYBACK)
LCD901	1-803-496-11	DISPLAY PANEL, LIQUID CRYSTAL
M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	

	3-865-814-11	MANUAL, INSTRUCTION (ENGLISH)(US)	
	3-865-814-21	MANUAL, INSTRUCTION (FRENCH)(CND)	
	3-865-815-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH,FRENCH)	
	X-3373-412-1	CASE (PANEL) ASSY	

		HARDWARE LIST	

#1	7-621-772-10	SCREW +B 2X4	
#2	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#3	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#4	7-685-794-09	SCREW +PTT 2.6X10 (S)	
#5	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	
#6	7-624-104-04	STOP RING 2.0, TYPE -E	
#7	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3	

PARTS FOR INS TALLATION AND CONNECTIONS

501	3-916-161-31	FRAME ASSY
503	3-924-961-01	SUPPORT (ND), FITTING
504	X-3370-076-1	SCREW ASSY (KEY), FITTING
505	3-934-325-01	SCREW, +K (5X8) TAPPING
506	3-018-384-01	COLLAR
507	1-776-207-31	CORD (WITH CONNECTOR)(POWER)
511	3-915-917-01	SCREW (4X12), +T
512	7-682-560-04	SCREW +P 4X6
513	3-926-426-01	KEY

