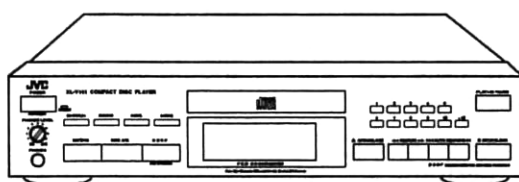


JVC

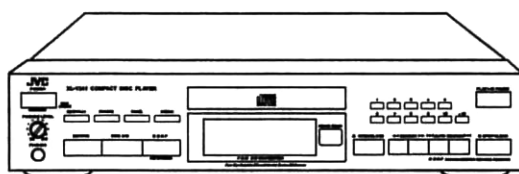
SERVICE MANUAL

COMPACT DISC PLAYER

XL-V161TN/ XL-V162BK XL-V261TN/ XL-V262BK



(XL-V161TN/XL-V162BK)



(XL-V261TN/XL-V262BK)

COMPACT
disc
DIGITAL AUDIO

COMPU LINK
Component

COMPU LINK
Remote Control Component

- Note : *
- XL-V161TN/XL-V162BK and XL-V261TN/XL-V262BK are completely same in their structure , except for the remote controller .
 - XL-V161TN and XL-V162BK are completely same in their structure , except for their outlook colours , also XL-V261TN and XL-V262BK .

Contents

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Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

5. Leakage current check (Electrical shock hazard testing)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).

• Alternate check method

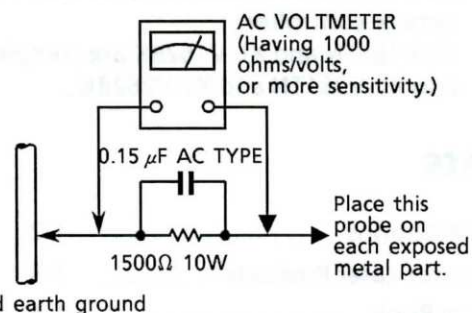
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor.

Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.).

This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

Important for Laser Products

1. **CLASS 1 LASER PRODUCT**
2. **DANGER** : Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION** : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.
4. **CAUTION** : The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.
5. **CAUTION** : If safety switches malfunction, the laser is able to function.
6. **CAUTION** : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
7. **CAUTION** : The compact disc player provides a laser diode of wavelength 780-790nm and optical output power typical 3mW at the laser diode.

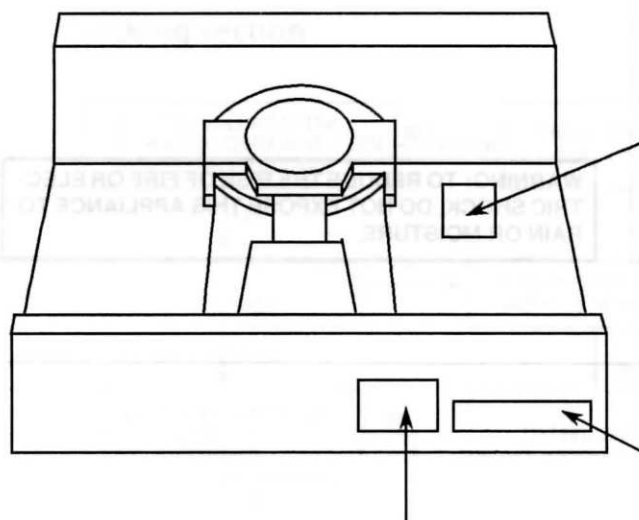
VARNING : Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

ADVARSEL : Usynlig laserstrålning ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

ADVARSEL : Usynlig laserstrålning ved åpning, når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABELS



WARNING LABEL

(Except for the U. S. A.)

DANGER: invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)

VARNING: Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)

ADVARSEL: Usynlig laserstrålning ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. (d)

VARO: Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)

**CLASS 1
LASER PRODUCT**

CLASSIFICATION LABEL

(Except for the U. S. A. and Canada)

CERTIFICATION
THIS PRODUCT COMPLIES WITH DHHS RULES
21 CFR SUBCHAPTER J APPLICABLE AT DATE
OF MANUFACTURE.

CERTIFICATION PRINT BY DHHS

(Only for the U.S.A.)



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK)
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION (FOR U.S.A.)

This equipment generates and uses radio frequency energy and if not installed and used properly that is in strict accordance with the manufacturer's instructions may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception which can be determined by turning the equipment off and on the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna
- Relocate this equipment with respect to the receiver
- Move this equipment away from the receiver.
- Plug this equipment into a different outlet so that this equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful.

"How to identify and Resolve-TV interference Problems." This booklet is available from the US Government Printing Office Washington. D.C. 20402, Stock No. 004-000-00345-4

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

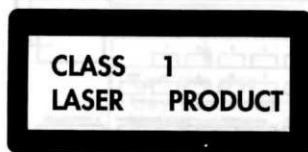
CAUTION

- To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
 2. Do not expose this appliance to rain or moisture.

IMPORTANT FOR LASER PRODUCTS

REPRODUCTION OF LABELS

- ① CLASSIFICATION LABEL, PLACED ON
REAR ENCLOSURE
(Except for the U.S.A.)



- ② WARNING LABEL, PLACED INSIDE
THE UNIT
(Except for the U.S.A.)

DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)

VARNING: Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)

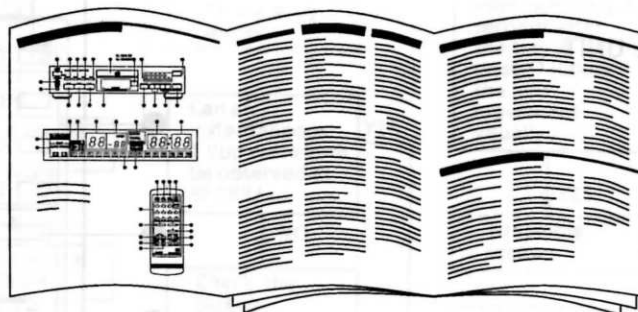
ADVARSEL: Usynlig laserstrålning ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling (d)

VARO: Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)

E406507-001

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.

On the back fold-out page of this page are illustrations of the front panel, the display and the remote control unit.
Please see reverse side of this fold-out page when you read the instructions corresponding by number.



FRONT PANEL

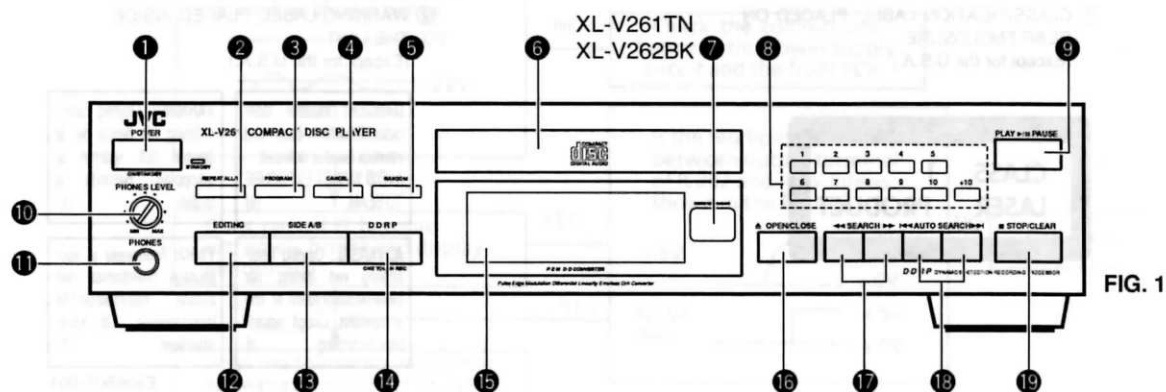


FIG. 1

DISPLAY

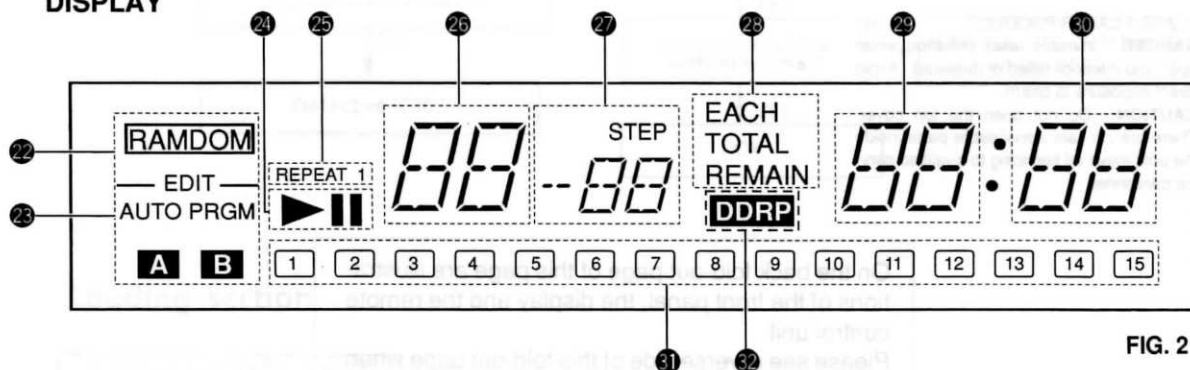


FIG. 2

REMOTE CONTROL UNIT

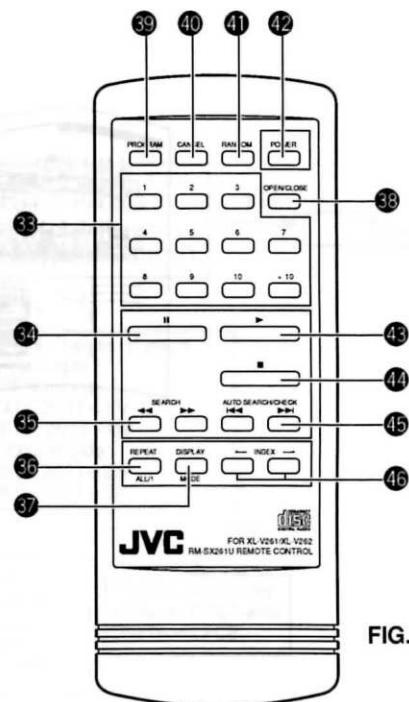


FIG. 3

CONTENTS

ENGLISH

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How to install the batteries	3
Connection diagram	4
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Display	6
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How to operate	7
Troubleshooting	8
Specifications	8

Thank you for purchasing this JVC product. Before you begin operating this unit, please read the instructions carefully to be sure you get the best possible performance. If you have any question, consult your JVC dealer.

COMPU LINK Control System

XL-V161TN, XL-V162BK

COMPU LINK Remote Control System

XL-V261TN, XL-V262BK

COMPU LINK (remote) Control System is a convenient system using COMPU LINK-1, 3/SYNCHRO terminals on the rear panel. For further details, refer to page 2.

D·D·R·P

DYNAMICS DETECTION RECORDING PROCESSOR

This product can be combined with a DDRP (Dynamic Detection Recording Processor) system (compact disc player + cassette deck, etc.) to enable setting the optimum recording level automatically. For further details, refer to page 2.

Notes:

- XL-V161TN/XL-V162BK/XL-V261TN/XL-V262BK has almost the same function. Their differences are as follows:

Model Name	Color	Remote Control
XL-V161TN	Titanium	No
XL-V162BK	Black	No
XL-V261TN	Titanium	Yes
XL-V262BK	Black	Yes

PRECAUTION IN USE

Installation

- Select a location which is level, dry and **Neither too cold nor too hot (between 5°C (41°F) and 35°C (95°F)).**
- Avoid a dusty location or a location subject to vibrations.

Power

- When unplugging from the wall outlet, always pull on the plug, not on the power cord.

Malfunctions, etc.

- Do not insert any metallic object into the player.
- The discs to be played on this player are limited to those bearing the mark below (Fig. 4).
- Placing anything other than a compact disc on the tray may cause the player to malfunction.
- If something goes wrong, turn the power off immediately. If the same phenomenon occurs when the power is turned on again, turn the power off and consult your JVC dealer.

Volume setting

As a compact disc causes almost no noise, it is difficult to set the volume level by listening to noise as in the case of an ordinary analog turntable or a tape deck. If the volume level is raised too much because the beginning of the selection is quiet, the speakers may be damaged by a sudden increase in the sound level.

Condensation

As the compact disc player uses optical parts, moving it from a cold to warm place or using it in a room subject to excessive humidity or in a room where a fire has just been lit may cause condensation on the optical parts. This phenomenon may prevent the light from being correctly transmitted, and may cause noise or malfunction.

If dew condenses and the player does not function correctly, leave it on for several hours with the power turned on.

If the player does not function even after such period, consult your dealer.

Note:

- **When this unit is placed near a tuner or a receiver, noise may occur. If this happens, move this unit as far from the tuner or the receiver as possible, or briefly turn off the power of the unit.**

COMPACT
disc
DIGITAL AUDIO

Fig 4

HOW TO HANDLE A COMPACT DISC

Since compact discs are made of plastic, they can be easily damaged; if the disc gets dirty, dusty, damaged or warped, the sound will not be picked up correctly, and such discs may cause the player to malfunction. When handling compact disc, use the following precautions.

- Do not touch the surface of the disc (reflective silver i.e. the side without the label) When handling the discs.
- **Storage**
Make sure to keep discs in their cases. If discs are piled on top of the one another without cases, they can be damaged. Do not put discs in a location exposed to direct sunlight or in a place with high temperature and humidity.
Avoid leaving discs in your car.
- **Maintenance of discs (Fig. 5)**
When fingerprints and dirt adhere to a disc, wipe the disc off with a soft, dry cloth from the inside towards the outside. If it is difficult to clean, wipe the discs with a cloth moistened with water.
- Do not use record cleaners, benzine, alcohol or antistatic agent.
- Do not damage the label side or stick paper or adhesive to the surface.
- In the case of an 8 cm (3") single CD, place it in the disc hold, for an 8 cm (3") disc, within the tray.

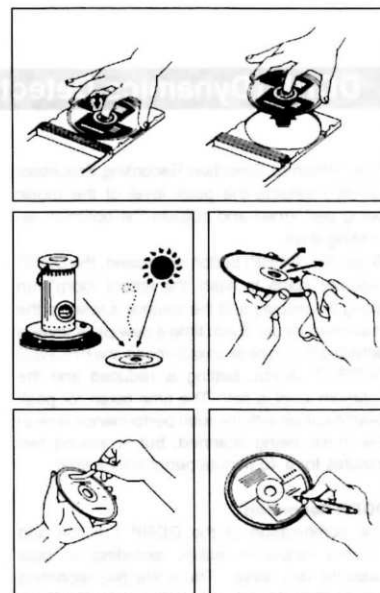


Fig. 5

COMPU LINK CONTROL SYSTEM

The Compu Link Remote Control System controls relative operations between components automatically and facilitates various operations. This is a system originated and developed by JVC for facilitating various system operations. There are two versions of this system; version 1 and 3. (For version 1 components, "COMPU LINK-1 SYNCHRO" is marked on the rear panel. For version 3 components, "COMPU LINK-3 SYNCHRO" is marked on the rear panel. This unit belongs to version 3.) The version 3 system controls relative functions between this unit and an amplifier or receiver, in addition to all of the functions of version 1.

Automatic Source Selection

When the provided remote cable are used for connecting this unit to other components which have COMPU LINK -1, 3/SYNCHRO terminals, the switch-over of all system components is possible with simple one-touch of the source selector button of the JVC amplifier or receiver. By doing this, the corresponding component will start playing automatically. The source select button of the remote control unit or the select button of the desired component can also be used for this purpose.

When the components have been switch over, the previously used component will stop playing within five seconds.

Synchronized Recording

If a cassette deck with COMPU LINK-1, 3/ SYNCHRO terminals is connected with the remote cable supplied, synchro recording becomes possible.

Synchronized recording refers to the process in which the cassette deck starts recording in the synchronism with the CD player. Perform the synchronized recording as follows.

1. Set the cassette deck to the REC/PAUSE mode in accordance with the procedures in the instructions.
2. If you want programmed recordings, program the desired selections in any order you wish to hear them.
3. Press the [PLAY/II PAUSE] button of the CD player. By doing so, the cassette deck is placed in the record mode and synchronized with the CD player for recording. Synchronized recording thus can be made possible.

Automatic power ON/OFF

This feature works only when this unit is connected to an amplifier or receiver with COMPU LINK-3 SYNCHRO terminals.

By pressing the [PLAY/II PAUSE] or (▶) button, you can turn on this unit and the connected equipment (amplifier or receiver), and by turning off the connected equipment, you can turn off this unit.

Notes:

- Synchronized recording stops automatically when the CD player stops playing.
- To cancel synchronized recording, press the [STOP/CLEAR (■)] button of the CD player or cassette deck.

CAUTION:

- When the REC/PAUSE mode is set by pressing [PAUSE (II)] button after pressing the [REC (O)] and [PLAY (▶)] buttons simultaneously, synchronized recording is not possible. For details, refer to the instructions of the cassette deck.
- Abnormal operation will result if the power supply of the component(s) is interrupted. If this happens, you must start all over again.
- Ensure that the COMPU LINK-1, 3/ SYNCHRO terminals of the individual components are connected with the provided remote cables. Also be sure to fully read the instructions for each component.

ENGLISH

DDRP (Dynamics Detection Recording Processor)

The Dynamics Detection Recording Processor (DDRP) detects the peak level of the music being performed and outputs the optimum recording level.

When the (DDRP) button is pressed, the DDRP indicator starts to flash, the letters "ddrp" run along the display and the volume is reset to the maximum value. Each time a new peak level is detected during peak search mode, the PHONES OUTPUT LEVEL setting is reduced and the optimum level is set. The time taken for peak search varies with the total performance time of the music being scanned, but is around two minutes for a 40 minute performance time.

DDRP Recording

The combination of the DDRP function and synchro recording makes recording on tape cassette very easy. There are two recording methods - according to which type of cassette deck is being used.

1. In combination with a DDRP compatible JVC cassette deck :
Peak search is initiated by pressing the [DDRP] button. As soon as the peak search is terminated, recording starts. The cassette deck should be operated in accordance with the instructions supplied with it.

2. In combination with any JVC cassette deck not DDRP-compatible :

Where connection is made to a cassette deck not DDRP-compatible, via the synchro terminals, pressing the [DDRP] button will start the recording process.

In this case, the cassette deck input level will not be automatically set.

Where a none DDRP-compatible cassette deck is used, a preliminary recording should be made in order to ascertain ideal input levels - the input level being then set up in accordance with the instructions for the cassette deck. If the input-level knob is subsequently reset to the same position, this enables recording at the optimum level to be done, without resetting every time.

DDRP Cancel

Press the [OPEN/CLOSE (▲)] button to cancel DDRP mode.

Note

- The graphic equalizer should not be used during DDRP recording. Using this facility will disturb the optimum recording level setting just found by the DDRP.
- Please do not turn off the power to the CD player while the DDRP mode is active. If this should be turned off by accident then the cassette deck should also be switched off for a few seconds in order to clear the DDRP recording mode from the cassette deck.
- When the cassette deck is connected via the synchro terminals, it is set in recording mode when DDRP is pressed. Take care, therefore, not to erase a tape by mistake.

Supplementary Notes

- For successful DDRP recording, make sure to turn on the cassette deck before starting the recording.
- Whenever any addition or cancellation is made to the music tracks programme, the DDRP mode is cancelled.
- DDRP recording is automatically stopped when the CD player stops.

HOW TO INSTALL THE BATTERIES

ENGLISH

The service life of the batteries depends on the condition of use; the standard life is about one year.

When the batteries become weak, the effective distance of the remote control unit will become shorter. If this happens, replace the batteries with new ones.

• How to install batteries

1. Remove the rear cover of the remote control unit by pressing down on it with your thumb and simultaneously pulling it backwards, as shown in Fig. 7.

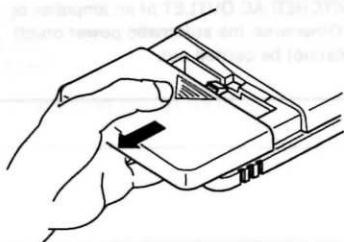


Fig. 7

2. Install batteries (AAA, R03, UM-4) as shown in Fig. 8. Be sure batteries are installed with correct polarity, (+) and (-).

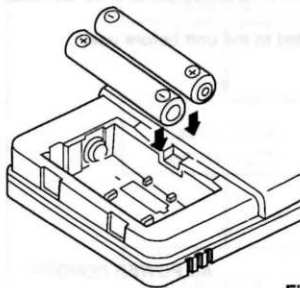


Fig. 8

3. Reinstall the rear cover of the remote control unit. Slide the rear cover back as shown in Fig. 9.

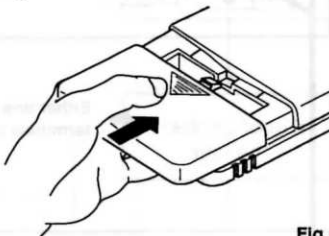


Fig. 9

Notes:

- **The lower the temperature, the shorter battery life.**
- **Battery replacement.**

• Batteries

Incorrect use of batteries can cause corrosion or damage. Note the following points to lengthen battery life.

1. Install batteries observing the correct polarity, (+) and (-).
2. Do not use new and old batteries simultaneously.
3. Batteries with similar shapes may have different voltage ratings. Be sure to use the correct batteries.
4. Remove batteries from the remote control unit if it will not be used for a long period of time.

CONNECTION DIAGRAM

ENGLISH

- Do not connect the power plug unless all the connection is completed.
- Connect the audio plug firmly.
- The synchronized recording is only possible with JVC products which have the COMPU LINK-1, 3/SYNCHRO terminals. To carry out synchronized recording, connect to the amplifier's CD terminal. For further details, consult your JVC dealer.
- The AC power cord is supplied and must be connected to the unit before use.

Connecting to the Analog Output Terminals

When using the Compu Link Remote Control System version 3, do not connect the power cord to the SWITCHED AC OUTLET of an amplifier or receiver. Otherwise, the automatic power on/off function cannot be carried out.

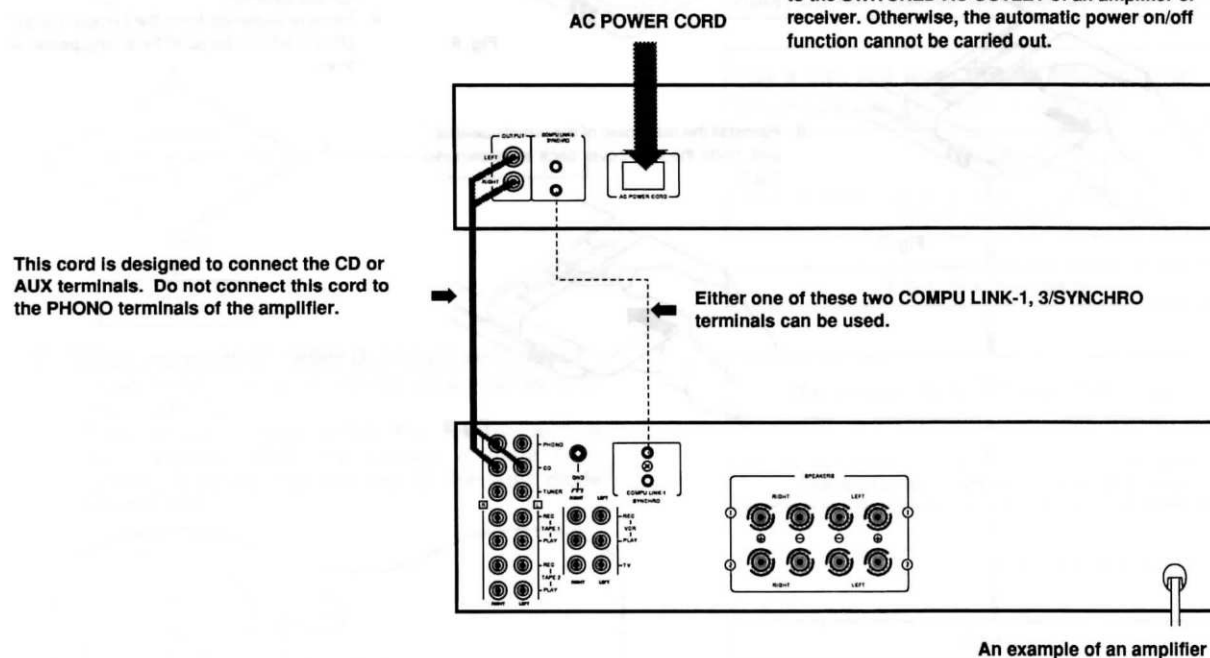


Fig. 10

DESCRIPTION AND FUNCTIONS

ENGLISH

1 POWER (ON/STANDBY) switch and STANDBY indicator

Press this switch to turn the power on. Press again to turn the power off and activate the standby mode.

A small amount of power (3 watts) is consumed and the STANDBY indicator is lit in the standby mode. To turn the power off completely, disconnect the power cord from the wall outlet.

2 REPEAT ALL/1

Press this button to play one selection, all the selections or the programmed selections of the disc repeatedly.

When desiring all the selections, press the button once. "REPEAT" will be lit in the display window. When desiring one selection, press the button once again. "REPEAT 1" will be lit in the display window. To release this repeat play, press the [REPEAT ALL/1] button again.

3 PROGRAM

To program the sequence of the selections to be played, press this button while the CD player is in the STOP mode. The PROGRAM indicator lights and up to 32 selections can be programmed.

4 CANCEL

Press this button to cancel a programmed tune, each time it is pressed, one tune is cancelled.

5 RANDOM

When this button is pressed, the CD player will be ready for random play.

6 Disc Tray

Load the disc to be played.

7 REMOTE SENSOR

(for XL-V261TN/XL-V262BK only)

8 10 key operating buttons

To designate the desired track numbers or establish the time interval during the tape editing, use these buttons. If the desired number is 10 or less, use the [1] ~ [10] buttons. However, to assign a track number greater than 10, use the [+10] button and the [1] ~ [10] button.

Examples

- To assign the 25th track, press the [+ 10] button twice then press the [5] button.
- To assign the 30 minutes, press [+ 10] button twice then press the [10] button.

9 PLAY ►/II PAUSE

Press this button to start play. If the disc tray is out press this button, and disc tray will then move in and play will start (without pressing the [▲OPEN/CLOSE] button).

Press this button again to suspend play temporarily. The optical pickup stops and the disc continues to rotate. This status is called the pause mode.

Note:

- If the button is pressed with no disc loaded, the disc tray will come out. If the button is pressed in the standby mode, the power will turn on and play will start.

10 PHONES LEVEL

Adjust the volume of the head phones.

Note:

- When listening to music by the headphones, be careful not to abuse your ears by setting the volume too high. Adjust the volume properly to obtain ear-pleasing listening.

11 PHONES

Insert the headphones into this jack.

12 EDITING

When editing the disc data in the cassette tape, the time interval can be established in advance in accordance with the tape length. When this button is pressed, "EDIT" appears in the display window.

13 SIDE A/B

Use this button to designate the tape side when programming for edit recording.

14 DDRP

Press this button for DDRP recording. If the player is connected to a DDRP system compatible cassette deck, when this button is pressed, the optimum recording level is automatically set and recording will start.

15 Display Window (MULTI MODE DISPLAY)

This shows the total number of selections on the disc, the total playing time, the elapsed playing time, the remaining playing time, various program data, etc.

16 ▲ OPEN/CLOSE

Press this button to move the disc tray in and out. Press once and the disc tray will move out; now you can load a disc. Press again to move the tray back in. The disc is now ready to be played.

If it is pressed during play, play will be interrupted. And the program will be erased from memory and the disc tray will come out.

Note:

- If the power is turned off with the disc tray out, the disc tray will automatically come in. The disc tray can be moved in and out even in the standby mode.

17 ◀◀ SEARCH

When this button is pressed during play or pause mode, the CD player will begin to scan backwards. In such a case, when the button is kept pressed, the CD player will backward-search slowly for about 3 seconds, and then go into a higher speed search.

▶▶ SEARCH

When this button is pressed during play or pause mode, the CD player will begin to scan forward. In such a case, when the button is kept pressed, the CD player will forward-search slowly for about 3 seconds and then go into a higher speed search.

18 ◀◀ AUTO SEARCH

Press this button to locate the start of the current selection or to go back to the previous selection during play. Play will go back one selection each time the button is pushed. If the button is held down, play will continue to go back one selection at a time until the button is released.

▶▶ AUTO SEARCH

Press this button to go to the start of the next selection. Every time this button is pressed, the pickup goes forward by one selection. Holding the button down moves the pickup forward continuously.

19 ■ STOP/CLEAR

Press this button to stop play. A few seconds after the disc has stopped rotating, the player goes into the STOP mode with the track number "1" shown in the display window. The player is then ready to play.

DISPLAY

ENGLISH

② RANDOM

Lights in RANDOM MODE.

③ EDIT

Lights during editing recording.

[EDIT AUTO] : Lights during Auto Edit Recording.

[EDIT PRGM] : Lights during Program Edit Recording.

A : Lights when the A side of the tape is designated.

B : Lights when the B side of the tape is designated.

④ PLAY/PAUSE Indicators

▶ : Lights during play.

⏸ : Lights in the pause mode.

⑤ REPEAT

Lights when the repeat play is ready.

REPEAT : Lights when the repeat play of all the selections is entered.

REPEAT 1 : Lights when the repeat play of only one selection is entered.

⑥ TRACK

Lights when all the selections of the disc are shown.

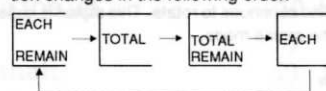
Shows the programmed selection numbers or the current selection number of the disc during programmed play.

⑦ STEP

Shows the numbers of memory steps of the programmed selections.

⑧ TOTAL/EACH/REMAIN

Each time the [DISPLAY MODE] button on the remote control unit is pressed, the indication changes in the following order.



EACH : Shows elapsed time for the each selection.

EACH : Shows the remaining playing time of each selection. (Up to 31st selection can be displayed.)

TOTAL : Shows the elapsed playing time of the disc or the programmed selections.

TOTAL : Shows the remaining playing time of the disc or the programmed selections. (Up to 31st selection can be displayed.)

⑨ Time indicator (MINUTE)

Shows the total playing time, elapsed playing time, or the remaining playing time in minutes.

⑩ Time indicator (SECOND)

Shows the total playing time, elapsed playing time, or the remaining playing time in seconds.

⑪ Program Chart

This chart indicates the number of each selection on the disc.

When a selection is programmed, the selection number lights.

⑫ DDRP INDICATORS

DDRP : Blinks during DDRP operation and lights steadily during DDRP recording.

REMOTE CONTROL UNIT

The remote control range is approximately 7 metres (23 ft.)

Pointing the remote control on an angle to the receiver, will reduce the useful distance of the remote control.

Use gentle but firm pressure when pressing the remote control buttons.

If you cannot do remote control, when the disc tray is slid out, the REMOTE SENSOR might be blocked by the disc tray. So operate as below.

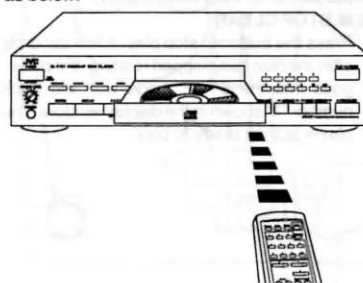


Fig. 13

Notes:

- The provided remote control unit (RM-SX261U) has operating buttons which are basically identical with those of the CD player. The differences are the following button which are not on the CD player.
- [STOP/CLEAR (■)] button on the remote control unit cannot cancel the programmed selections.

⑬ 10 key operating buttons

To designate the desired track numbers or establish the time interval during the tape editing, use these buttons. If the desired number is 10 or less, use the [1]~[10] buttons. However, to assign a track number greater than 10, use the [+10] button and the [1]~[10] buttons.

Example

- To assign the 25th track, press the [+10] button twice then press the [5] button.

⑭ Pause (⏸)

Press to stop play temporarily.

Note:

- To continue playing, press the [PLAY (▶)] button again.

⑮ SEARCH (◀▶)

◀▶ : Scans backward quickly during play.
▶▶ : Scans forward quickly during play.

⑯ REPEAT ALL/1

Press this button to play one selection, all the selections or the programmed selections of the disc repeatedly.

⑰ DISPLAY MODE

This button changes the time data in the display window.

⑱ OPEN/CLOSE (▲)

Press to move the disc tray in and out.

⑲ PROGRAM

To program the sequence of the selections to be played, press this button while the CD player is in the stop mode. The PROGRAM

indicator lights and up to 32 selections can be programmed.

⑳ CANCEL

Press this button to cancel the programmed tune. Each time it is pressed, one tune is cancelled.

㉑ RANDOM

When this button is pressed, the CD player will be ready for random play.

㉒ POWER

Press this button to turn on the power of this set.

㉓ Play (▶)

Press to start play.

㉔ Stop/Clear (■)

Press to stop play. However, this does not clear the program or the program edit recording.

㉕ AUTO SEARCH/CHECK (◀▶▶▶)

◀▶▶▶ : Skips to the beginning of the previous track.

▶▶▶▶ : Skips to the beginning of the next track.

It can be also used to check the program order, or to cancel part of the program.

㉖ INDEX

(←): To start play from the desired index point, scan backward to the desired index point with this button.

(→): To start play from the desired index point, scan forward to the desired point with this button.

HOW TO OPERATE

ENGLISH

Preliminary Operation

1. Turn on and adjust components such as an amplifier.
2. Turn on the CD player.
3. Press the [▲(OPEN/CLOSE)] button to slide the disc tray out.
4. With its label side up, load a disc on the disc tray.
5. Press the [▲(OPEN/CLOSE)] button again to slide the disc tray in.

Notes:

- The display shows the number of tracks and total playing time of the disc for 3 seconds.
- You can also close the disc tray by pressing the [PLAY ►/II PAUSE] or [►] button. In such a case, play starts immediately with the first selection of the disc.

To Play From the First Selection

Press the [PLAY ►/II PAUSE] or [►] button.

To Play From Any Desired Selection

1. Designate the desired selection number by the 10 key operating buttons.

Examples:

- To assign the 25th track, press the [+10] button twice and then press the [5] button.
- To assign the 30th track, press the [+10] button twice and then press the [10] button.

The same operation can also be carried out using [(◀◀,▶▶)] button.

1. Designate the desired selection number by the [(▶▶)] button.
2. Press the [PLAY ►/II PAUSE] or [►] button.

To Stop Play Temporarily

Press the [PLAY ►/II PAUSE] or [II] button.

Note:

- To continue playing, press the [PLAY ►/II PAUSE] or [►] button again.

To Switch Selections During Play

- To skip to the next selection
Press the [(▶▶)] button.
 - To skip to the previous selection
Press the [(◀◀)] button.
1. Press the [(◀◀)] button once and locate the start of the current selection.
 2. Immediately after step 1, press the [(◀◀)] button again.

To Repeat Play

- To repeat all the selections
1. Press the [(REPEAT ALL/1)] button once.
2. Press the [PLAY ►/II PAUSE] or [►] button.
- To repeat one selection
1. Press the [(REPEAT ALL/1)] button twice.
2. Designate the desired selection number by the [(▶▶)] button.
- 3. Press the [PLAY ►/II PAUSE] or [►] button.

To Stop Play

Press the [■STOP/CLEAR] or [■] button.

To Remove the Disc

Press the [▲(OPEN/CLOSE)] button.

To Program Play

1. Press the [■STOP/CLEAR] or [■] button.
2. Press the [(PROGRAM)] button.
3. Program any desired selections with the 10 key operating buttons.
4. Press the [PLAY ►/II PAUSE] or [►] button.

To Correct the Program

- To correct all the program
1. Press the [■STOP/CLEAR] button.
2. Start programming again from the beginning.
 - To correct each content of the program during programming
1. Press the [(◀◀)] button to go back to the program which needs to be cancelled.
 - 2. Press the [(CANCEL)] button.
 - 3. Program a desired selection with the 10 key operating buttons.
- * Newly programmed selection is added to the last of the program.

To Check the Program

Press the [(◀◀,▶▶)] button.

Notes:

- A maximum of 32 out of 99 tunes can be selected.
- When the programmed play is performed, the selection number programmed first and the total playing time of programmed selections are displayed.
- The total playing time display is useful when making recording from the CD player.
- When programming is carried out with the disc tray out, the total playing time of the programmed selections will not be displayed.
- When the total playing time of all the selected tunes exceeds 99 minutes and 59 seconds, the time display will be disabled and only the center bar will be displayed.
- Pressing the [(▶▶)] button when in the programmed play causes the unit to skip to the next programmed selection.
- To stop temporarily during programmed play, press the [PLAY ►/II PAUSE] or [►] button. Press this button again to restart.

To Random Play

1. Press the [■STOP/CLEAR] or [■] button.
2. Press the [(RANDOM)] button.
3. Press the [PLAY ►/II PAUSE] or [►] button.

To Cancel the part of Random Play

1. Select the track(s) you want to cancel with the 10 key operating buttons.

[] : The button on the main unit.
() : The button on the remote control.

To add cancelled track(s) to Random Play

1. Select the cancelled track(s) you want to add to Random Play with the 10 key operating buttons or [(◀◀,▶▶)] button.
2. Press the [(PROGRAM)] button.

To Perform Synchronized Recording

Synchronized recording is possible by connecting the cassette deck to the COMPU LINK-1, 3/ SYNCHRO terminals of the CD player through the remote cable.

1. Press the [REC (○)] and [PAUSE (II)] buttons of the cassette deck.
2. Press the [PLAY ►/II PAUSE] or [►] button of the CD player to start the synchronized recording.
3. Press the [STOP/CLEAR (■)] or [■] button to stop recording.

To record using DDRP

Whenever the remote cable supplied is connected to the COMPU LINK-1, 3/SYNCHRO terminals housed in a DDRP-compatible cassette deck (with its power on), DDRP recording mode is available.

By pressing the [DDRP] button, recording is automatically started as soon as the peak level search routine is completed.

To Perform Edit Recording

- Auto Edit Recording
Automatically distributes and edits the tracks accommodated within the specified time to sides A and B.

1. Set a disc and press the [■STOP/CLEAR] or [■] button.
2. Press the [EDITING] button to light AUTO.
3. Set the recording time corresponding with the tape used, using the numerical key buttons.

Examples:

- To assign the 54 minutes, press [+10] button fifth then press the [4] button.
 - To assign the 90 minutes, press [+10] button eight then press the [10] button.
- When the length of tape corresponds with the time displayed then the [SIDE A/B] button should be pressed.
4. Press the [DDRP] button.
(When automatic setting of the recording level is not required, set the cassette deck to standby (REC PAUSE) and press the CD player [PLAY ►/II PAUSE] or [►] button.)
(When the synchro terminals are not connected, once the peak search is completed, set the cassette deck to record, and press the CD player [PLAY ►/II PAUSE] or [►] button.)

When the side A music programme has terminated, recording is automatically stopped.

If side B is also to be recorded, turn the tape over and again press the [DDRP] button. (now recording will start immediately)

Program Edit Recording

Edits the tracks accommodated within the specified time in the desired track order.

1. Set a disc and press the [■STOP/CLEAR] or [■] button.
2. Press the [EDITING] button to light PRGM.
3. Set the recording time corresponding with the tape used, using the numerical key buttons.

Examples:

- To assign the 54 minutes, press [C + 10] button fifth then press the [C4] button.
- To assign the 60 minutes, press [C + 10] button fifth then press the [(10)] button.

When the length of tape corresponds with the time displayed then the [SIDE A/B] button should be pressed.

4. Select the tracks to be recorded on side A, using the numerical key buttons.

5. Press the [SIDE A/B] button.
6. Select the tracks to be recorded on side B, using the numerical key buttons.
7. Press the [DDRP] button.
(When automatic setting of the recording level is not required, set the cassette deck to standby (REC PAUSE) and press the CD player [PLAY ▶/■ PAUSE] or [▶] button.)

When the synchro terminals are not connected, once the peak search is completed, set the cassette deck to record, and press the CD player [PLAY ▶/■ PAUSE] or [▶] button.)

When the side A music programme has terminated, recording is automatically stopped.

If side B is also to be recorded, turn the tape over and again press the [DDRP] button (now recording will start immediately).

Connecting to a cassette deck not DDRP-compatible, via the synchro terminals

Where connection is made to a cassette deck not DDRP compatible, via the synchro terminals, the recording process will be started by pressing the [DDRP] button.

In this case, the cassette deck input level will not be automatically set.

A preliminary recording should be made in order to ascertain input levels - the input level being then set up in accordance with the cassette deck instruction manual. Subsequently setting the input-level knob to the same position enables recording at the optimum level without a resetting process every time.

TROUBLESHOOTING

What appears to be a malfunction may not always be serious.

Make sure first.

Although the disc is inserted in the CD player, DISPLAY shows no data.

Is the disc placed upside down?

- Place the disc on the disc tray with its label side up.

Selections cannot be programmed.

Is the "PROGRAM" indicator lit?

- Press the [PROGRAM] button.

The remote control unit does not function.

Are the batteries fresh?

- Replace the batteries with new ones.

The sound is intermittent and is harsh to the ear.

Is the disc dirty?

- Wipe off the surface with a soft cloth.

Is the disc scratched?

- Replace the disc with a new one.

Is the disc warped?

- Replace the disc with a new one.

SPECIFICATION

System	: Compact disc player
Signal detection system	: Non-contact optical system
Number of channels	: 2 channels
Frequency response	: 2 Hz ~ 20,000 Hz
Dynamic range	: 98 dB (1 kHz)
Signal/noise ratio	: 106 dB (at digital 0)
Channel separation	: 94 dB (1 kHz)
Harmonic distortion	: 0.0025 % (1 kHz)
Wow and flutter	: Less than measurable limit
Output level	: 2.0 Vrms (full scale)
Number of program steps	: 32 steps
Dimensions	: 435 (W) x 102 (H) x 273.5 (D) mm (17-3/16" x 4-1/16" x 10-3/4")
Weight	: 3.5 kg (7.8 lbs)

Accessories	: Signal cord (1 m • 3.28 ft.) 1
	: Remote cable (1 m • 3.28 ft.) 1
For XL-V261TN/XL-V262BK	
	: Remote control unit (RM-SX261U) 1
	: Battery (AAA, R03, UM-4) ...2

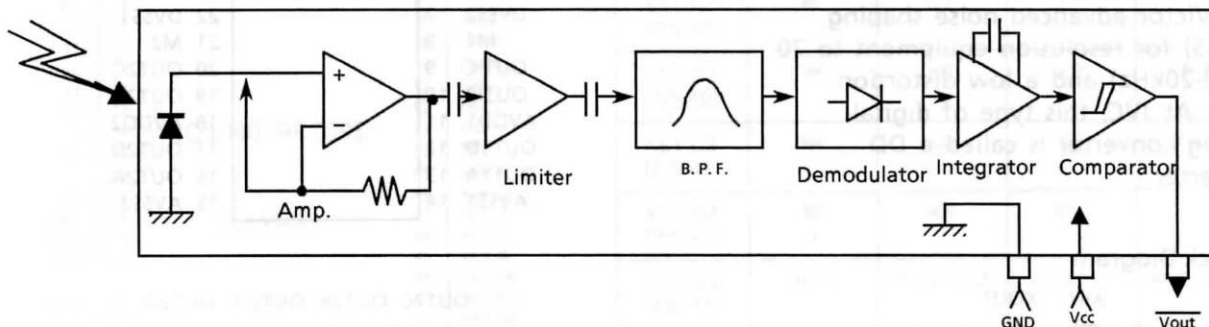
Design and specifications subject to change without notice.

POWER SPECIFICATIONS

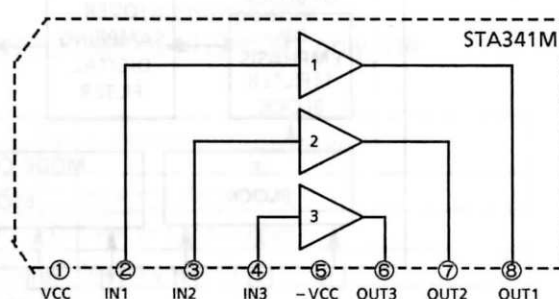
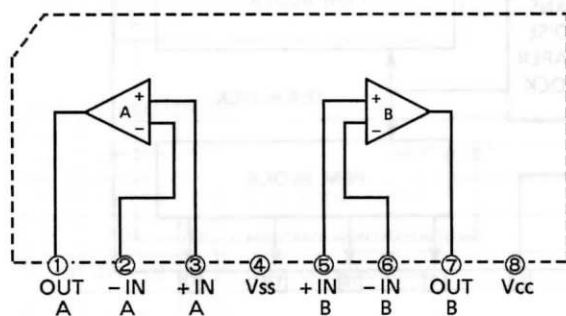
Areas	Line Voltage & Frequency	Power Consumption
U.S.A.	AC120V ~, 60Hz	11 Watts
Australia	AC240V ~, 50Hz	11 Watts

Description of ICs

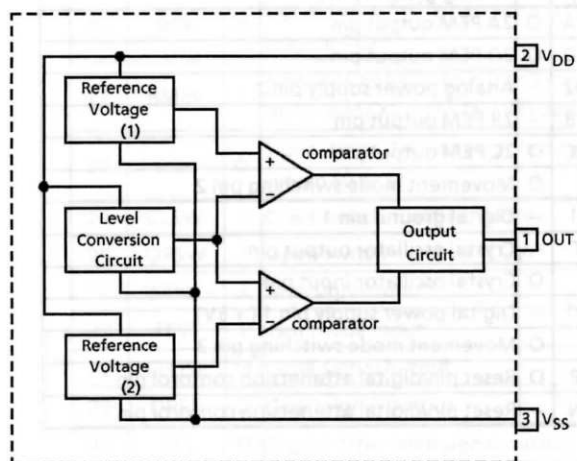
■ SPS420-1 (IC203) : Receiver for remote controller (not use for XL-V161TN/XL-V162BK)



■ NJM4580L (IC303, IC304, IC307, IC603) : Dual OP Amp. ■ STA341M (IC602) : Motor Driver



■ MN1281(IC202) : Reset IC



Pin No.	Pin Name	Functions
1	OUT	Reset signal output : Low level is output when resetting : High level is output when cancelling the reset.
2	V _{DD}	Power supply
3	V _{SS}	Ground

■ MN35500(IC301) : D / A Converter

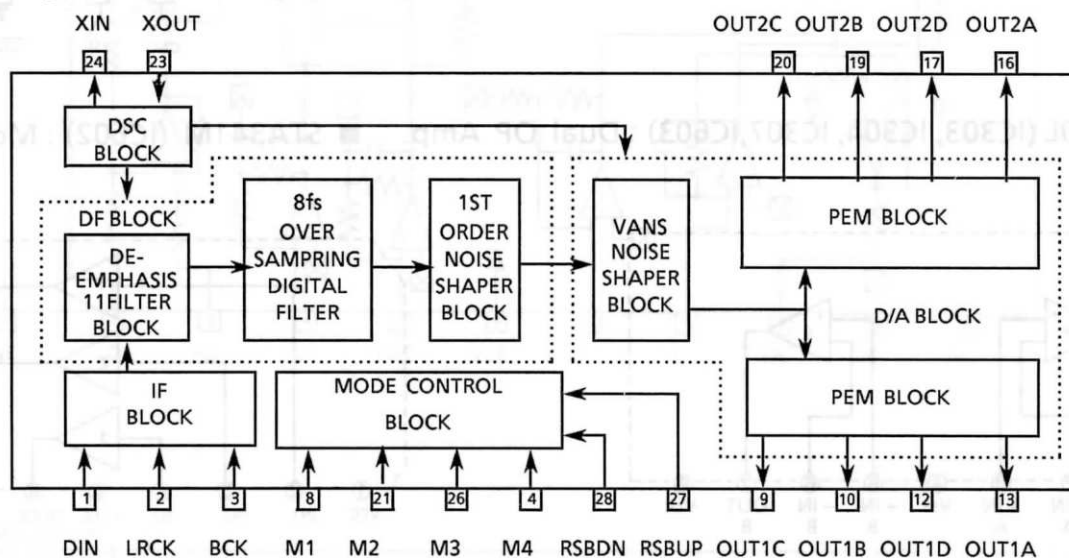
1. Outline

The MN35500 is a CMOS digital-analog converter with independent left and right channels. It was developed for PCM digital audio equipment. It features pulse edge modulation (PEM) and Victor advanced noise shaping (VANS) for resolution equipment to 20 bits(0-20kHz) and a low distortion ratio. At JVC, this type of digital-analog converter is called a DD converter.

2. Terminal Layout

DIN	1	28	RSBDN
LRCK	2	27	RSBUP
BCK	3	26	M3
M4	4	25	DVDD1
DVDD2	5	24	XIN
CKO	6	23	XOUT
DVSS2	7	22	DVSS1
M1	8	21	M2
OUT1C	9	20	OUT2C
OUT1B	10	19	OUT2B
AVDD1	11	18	AVDD2
OUT1D	12	17	OUT2D
OUT1A	13	16	OUT2A
AVSS1	14	15	AVSS2

3. Block Diagram



4. Pin Function Description

Pin No	Symbol	I/O	Description	Pin No	Symbol	I/O	Description
1	DIN	I	Serial data input pin	15	AVSS2	--	Analog ground pin 2
2	LRCK	I	L,R Clock input pin	16	OUT2A	O	2A PEM output pin
3	BCK	I	Serial data input(Bit clock) pin	17	OUT2D	O	2D PEM output pin
4	M4	I	Movement mode switching pin 4	18	AVDD2	--	Analog power supply pin 2
5	DVDD2	I	Digital power supply pin 2 (+ 5V)	19	OUT2B	--	2B PEM output pin
6	CKO	I	Clock output pin	20	OUT2C	O	2C PEM output pin
7	DVSS2	I	Digital ground pin 2	21	M2	O	Movement mode switching pin 2
8	M1	--	Movement mode switching pin 1	22	DVSS1	--	Digital ground pin 1
9	OUT1C	I	1C PEM output pin	23	XOUT	--	Crystal oscillator output pin
10	OUT1B	O	1B PEM output pin	24	XIN	O	Crystal oscillator input pin
11	AVDD1	--	Analog power supply pin 1 (+ 5V)	25	DVDD1	--	Digital power supply pin 1 (+ 5V)
12	OUT1D	--	1D PEM output pin	26	M3	O	Movement mode switching pin 3
13	OUT1A	--	1A PEM output pin	27	RSBUP	O	Reset pin/digital attenetsion contorol pin
14	AVSS1	O	Analog ground pin 1	28	RSBDN	--	Reset pin/digital attenetsion contorol pin

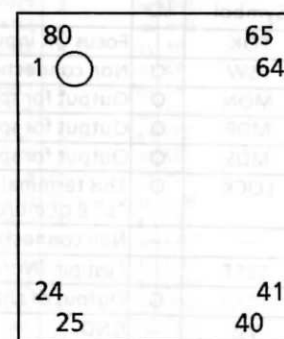
■ CXD2500BQ(IC401) : Digital Signal Processor

1. Outline

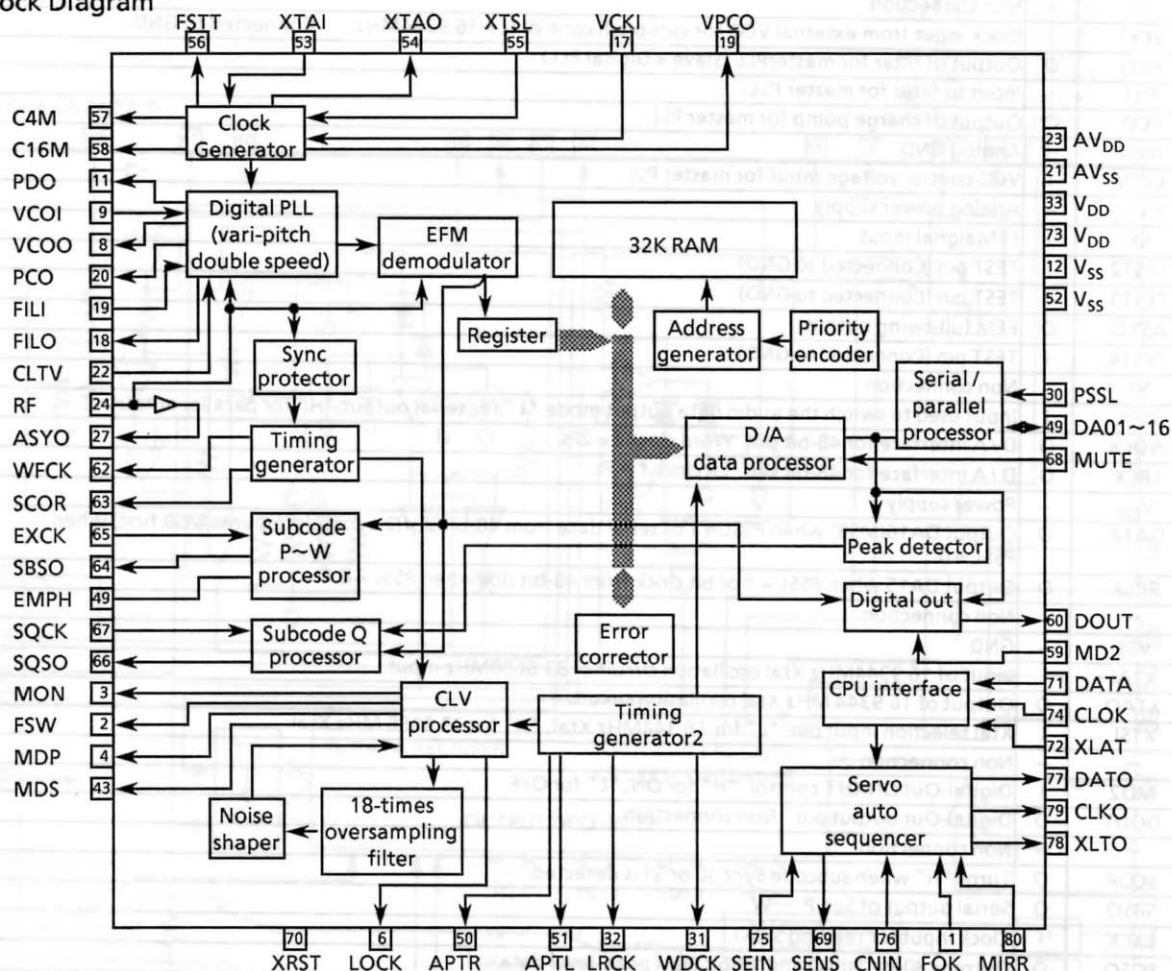
The CXD2500BQ is a digital signal processing LSI designed for use in compact disc players. It has the following functions:

- All digital signals for regeneration are processed using one chip.
- The built-in RAM enables high-integration mounting.
- Generation by the use of a digital PLL of bit clock pulses for strobing the EFM signal.
- EFM data demodulation
- Subcode demodulation and subcode Q data error detection
- Digital spindle servo system (incorporating an oversampling filter)

2. Terminal Layout (TopView)



3. Block Diagram



Notes:

- The data at the 64-bit slot is output in 2's complements on an LSB-first basis. The data at the 48-bit slot is output in 2's complements on an MSB-first basis.
- GTOP monitors the state of Frame Sync protection. ("H" : Sync protection window released)
- XUGF is a negative Frame Sync pulse obtained from the EFM signal before Frame Sync protection is effected.
- XPLCK is an inversion of the EFM PLL clock. The PLL is designed so that the falling edge of XPLCK coincides with a change point of the EFM signal.
- The GFS signal turns "H" upon coincidence between Frame Sync and the timing of interpolation protection.
- RFCK is a signal generated at 136-μs periods using a crystal oscillator.
- C2PO is a signal to indicate a data error.
- XRAOF is a signal issued when a jitter margin of $\pm 28F$ is exceeded by the 32K RAM.

4. Pin Function Description

Pin No.	Symbol	I/O	Description
1	FOK	I	Focus OK input pin. Used for SENS output and servo auto sequencer.
2	FSW	O	Non connection
3	MON	O	Output for spindle motor ON / OFF control.
4	MDP	O	Output for spindle servo control.
5	MDS	O	Output for spindle servo control (Non connection).
6	LOCK	O	This terminal is "H" when the GFS signal sampled at 460Hz is "H". It turns "L" when the GFS signal turns out "L" 8 or more times in succession.
7~9	—	--	Non connection
10	TEST	I	Test pin (Normally at 0V)
11	PDO	O	Output of charge pump for analog EFM PLL (Non connection).
12	Vss	--	GND
13~16	—	--	Non connection
17	VCKI	I	Clock input from external VCO for vari-pitch control. $f_c = 16.9344\text{MHz}$. Connected to GND.
18	FILO	O	Output of filter for master PLL (Slave = Digital PLL)
19	FILI	I	Input to filter for master PLL.
20	PCO	O	Output of charge pump for master PLL.
21	AVss	--	Analog GND
22	CLTV	I	VCO control voltage input for master PLL.
23	AV _{DD}	--	Analog power supply
24	RF	I	EFM signal input
25	TEST2	I	TEST pin (Connected to GND)
26	TEST3	I	TEST pin (Connected to GND)
27	ASYO	O	EFM full-swing output
28	TEST4	I	TEST pin (Connected to GND)
29	NC	--	Non connection
30	PSSL	I	Input used to switch the audio data output mode. "L" for serial output, "H" for parallel output.
31	WDCK	O	D / A interface for 48-bit slot. Word clock $f = 2F_s$.
32	LRCK	O	D / A interface for 48-bit slot. LR clock $f = F_s$.
33	V _{DD}	--	Power supply
34	DATA	O	Output DA16(MSB) when PSSL = 1 or serial data from 48-bit slot(2's complements, MSB first) when PSSL = 0.
35	BCLK	O	Output DA15 when PSSL = 1 or bit clock from 48-bit slot when PSSL = 0.
36~51	—	--	Non connection
52	VSS	--	GND
53	XTAI	I	Input of 16.9344MHz Xtal oscillation circuit or 33.8688MHz input.
54	XTAO	O	Output of 16.9344 MHz Xtal oscillation circuit.
55	XTSL	I	Xtal selection input pin. "L" for 16,344MHz Xtal, "H" for 33.8688 MHz Xtal.
56~58	—	--	Non connection
59	MD2	I	Digital-Out ON/OFF control. "H" for ON, "L" for OFF.
60	DOUT	O	Digital-Out output pin. Non connection
61,62	—	--	Non connection
63	SCOR	O	Turns "H" when subcode Sync S0 or S1 is detected.
64	SBSO	O	Serial output of Sub P ~ W.
65	EXCK	I	Clock input for reading SBSO.
66	SQSO	O	Outputs 80-bit Sub Q and 16-bit PCM peak-level data.
67	SQCK	I	Clock input for reading SQSO.
68	MUTE	I	"H" for muting, "L" for release.
69	SENS	O	SENS output to CPU.
70	XRST	I	System reset. "L" for resetting.
71	DATA	I	Inputs serial data from CPU.
72	XLAT	I	Latches serial data input from CPU at falling edge.
73	V _{DD}	--	Power supply(+ 5V)
74	CLOK	I	Inputs serial data transfer clock from CPU.
75	SEIN	I	Inputs SENSE from SSP(IC601). SSP : Servo Signal Processor
76	CNIN	I	Inputs track jump count signal.
77	DATO	O	Outputs serial data to SSP.
78	XLTO	O	Latches serial data output to SSP at falling edge.
79	CLKO	O	Outputs serial data transfer clock to SSP.
80	MIRR	I	Inputs mirror signal to be used by auto sequencer when jumping 128 or more tracks.

■ CXA1372S (IC601) : Servo Signal Processing Amplifier

1.Outline

The CXA1372S is a bipolar IC developed for RF signal processing (focus OK, mirror, defect detection, EFM comparator) and servo control.

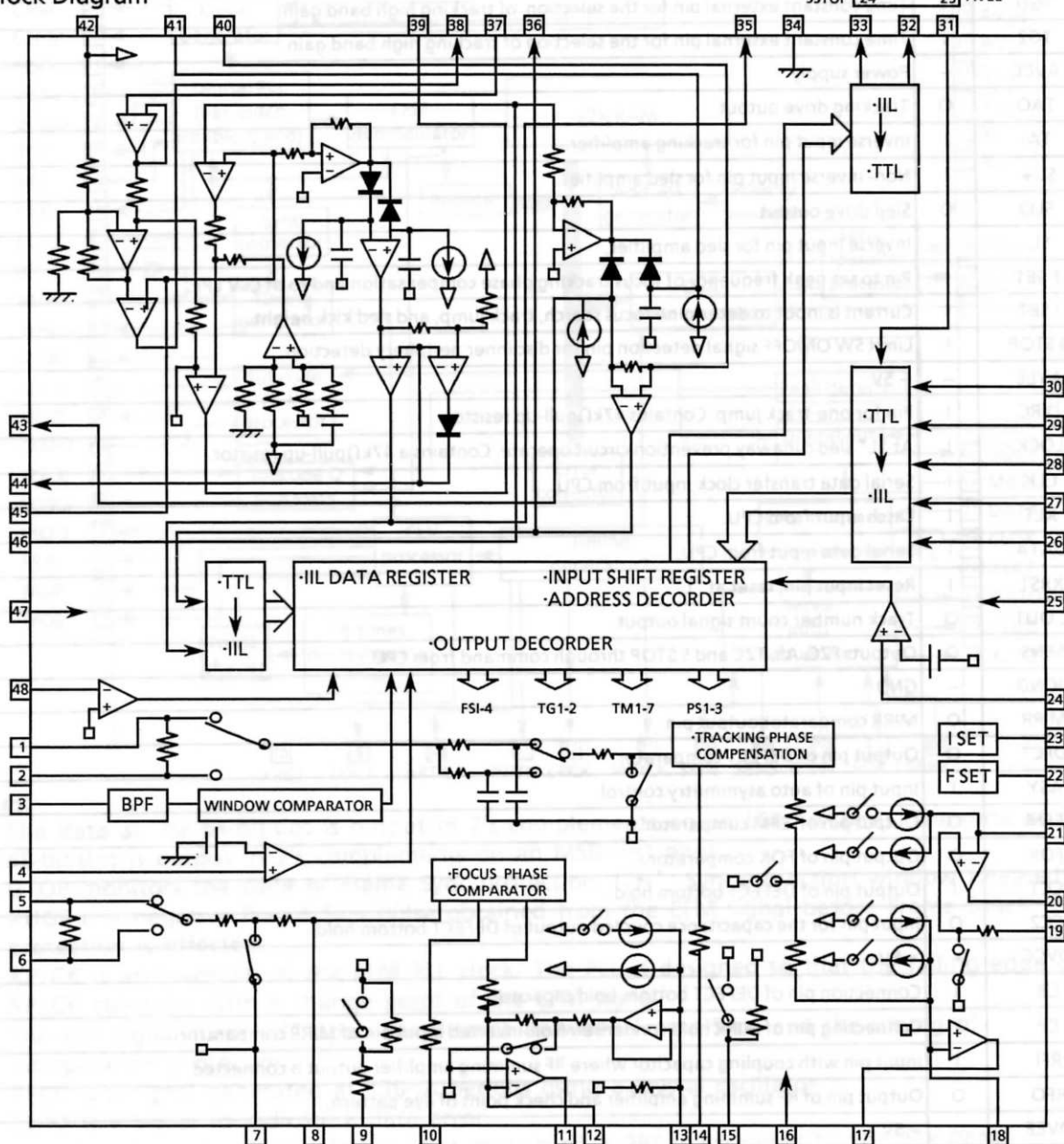
2.Functions

- Auto asymmetry control
- Focus OK detection circuit
- Mirror detection circuit
- Defects detection, counter measures circuit
- EFM comparator
- Focus servo control
- Tracking servo control
- Sled servo control

3.Terminal Layout

TE	1	48	TZC
TDFCT	2	47	DVEE
ATSC	3	46	RFO
FZC	4	45	RFI
FE	5	44	CP
FDFCT	6	43	CB
VC	7	42	DVCC
FGD	8	41	CC2
FS3	9	40	CC1
FLB	10	39	FOK
FEO	11	38	EFM
FE -	12	37	ASY
SRCH	13	36	DFCT
TGU	14	35	MIRR
TG2	15	34	DGND
AVCC	16	33	SENS
TAO	17	32	C.OUT
TA -	18	31	XRST
SL +	19	30	DATA
SLO	20	29	XLT
SL -	21	28	CLK
FSET	22	27	LOCK
ISSET	23	26	DIRC
SSTOP	24	25	AVEE

4.Block Diagram

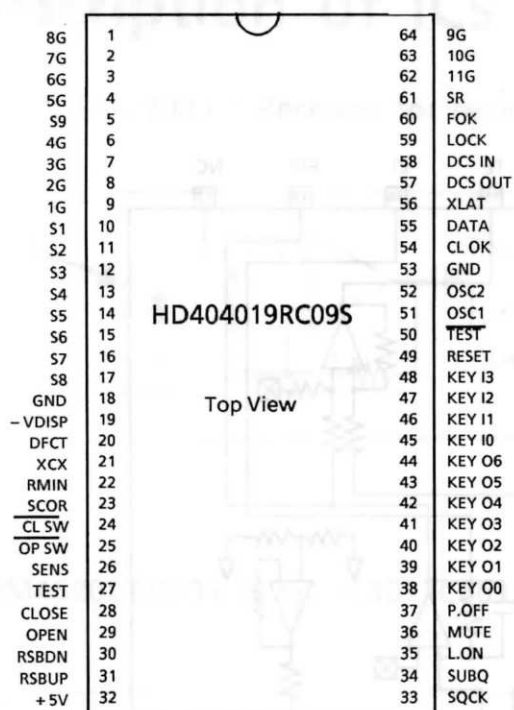


5.Pin Function Description

Pin No	Symbol	I/O	Description
1	TE	I	Input pin of tracking error amplifier.
2	TDFCT	I	Capacitor connecting pin for time constant during defects.
3	ATSC	I	Window comparator input pin for ATSC detection.
4	FZC	I	Pin for focus zero-cross comparator input.
5	FE	I	Input pin of focus error.
6	FDFCT	I	Capacitor connecting pin for time constant during defect functions.
7	VC	I	Center voltage input pin. For dual power: GND For single power supply: (VCC + GND)/2
8	FGD	I	Connect a capacitor between this pin and pin3 to reduce high-frequency gain.
9	FS3	I	The high-frequency gain of the focus servo is switched through FS3 ON and OFF.
10	FLB	I	Time constant external pin to raise the low bandwidth of the focus servo.
11	FEO	O	Focus drive output.
12	FE-	I	Inverse input for focus amplifier.
13	SRCH	I	Time constant external pin for formation of focus search waveform.
14	TGU	I	Time constant external pin for the selection of tracking high band gain.
15	TG2	I	Time constant external pin for the selection of tracking high band gain.
16	AVCC	--	Power supply
17	TAO	O	Tracking drive output.
18	TA-	I	Inverse input pin for tracking amplifier.
19	SL +	I	Non- inverse input pin for sled amplifier.
20	SLO	O	Sled drive output.
21	SL-	I	Inverse input pin for sled amplifier.
22	F SET	I	Pin to set peak frequency of focus tracking phase compensation and fo of CLV LPF.
23	I SET	I	Current is input to determine focus search, track jump, and sled kick height.
24	S STOP	I	Limit SW ON/OFF signal detection pin for disc inner periphery detection.
25	AVEE	--	- 5V
26	DIRC	I	Pin for one-track jump. Contains 47kΩpull-up resistor.
27	LOCK	I	At "L" sled runaway prevention circuit operate. Contains a 47kΩpull-up resistor.
28	CLK	I	Serial data transfer clock input from CPU.
29	XLT	I	Latch input from CPU.
30	DATA	I	Serial data input from CPU.
31	XRST	I	Reset input pin, reset at "L".
32	C.OUT	O	Track number count signal output.
33	SENS	O	Outputs FZC, AS, TZC and S STOP through command from CPU.
34	DGND	--	GND
35	MIRR	O	MIRR comparator output pin.
36	DFCT	O	Output pin of DEFECT comparator.
37	ASY	I	Input pin of auto asymmetry control.
38	EFM	O	Output pin of EFM comparator.
39	FOK	O	Output pin of FOK comparator.
40	CC1	I	Output pin of DEFECT bottom hold.
41	CC2	O	Input pin for the capacitance coupled output of DEFECT bottom hold.
42	DVCC	--	- 5V
43	CB	I	Connection pin of DEFECT bottom hold capacitor.
44	CP	I	Connecting pin of MIRR hold condenser. Non-inverted input pin of MIRR comparator.
45	RFI	I	Input pin with coupling capacitor where RF summing amplifier output is connected.
46	RFO	O	Output pin of RF summing amplifier and check point of eye pattern.
47	DVEE	--	- 5V
48	TZC	I	Input pin of tracking zero-cross comparator.

■ HD404019RC09S(IC201) : System controller

1. Terminal Layout



2. Key Matrix

	KEY I 0 (PIN 45)	KEY I 1 (PIN 46)	KEY I 2 (PIN 47)	KEY I 3 (PIN 48)
KEY O 0 (PIN 38)	◀	K1	K6	
KEY O 1 (PIN 39)	▶	K2	K7	
KEY O 2 (PIN 40)	◀▶	K3	K8	▶▶
KEY O 3 (PIN 41)	◀▶	K4	K9	K + 10
KEY O 4 (PIN 42)	■	K5	K10	
KEY O 5 (PIN 43)	DDRP	RANDOM	CANCEL	PROGRAM
KEY O 6 (PIN 44)	EDIT	▲	REPEAT	SIDE A / B

XL-V161TN/V162BK→HD404019RC09S and RC04S completely interchangeable.

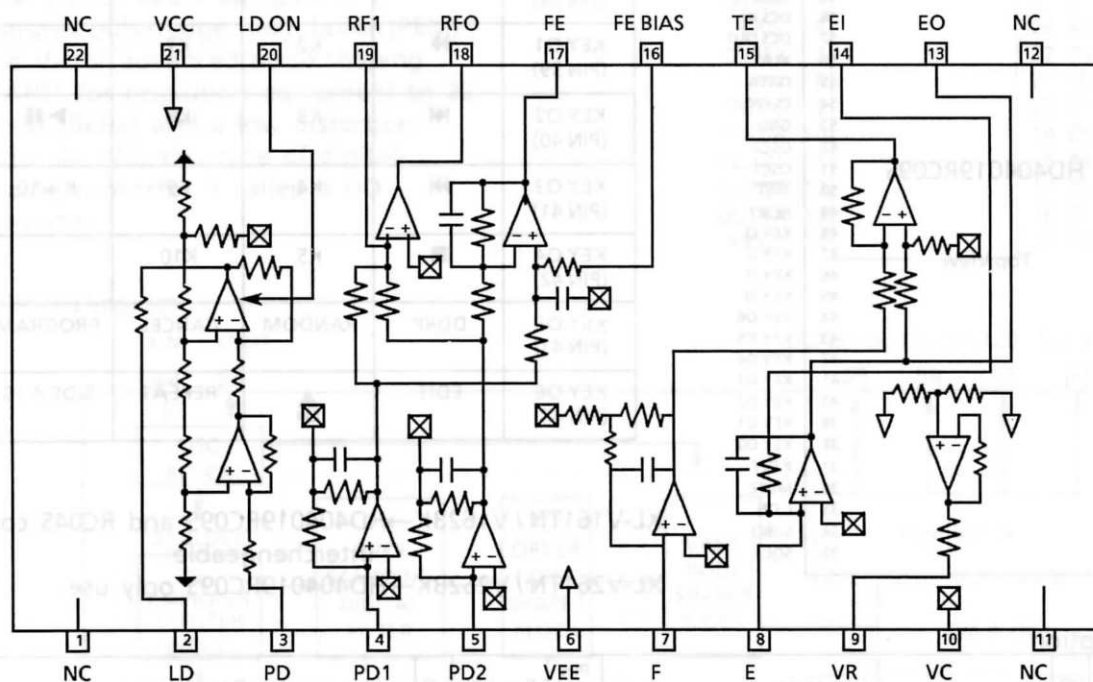
XL-V261TN/V262BK→HD404019RC09S only use.

3. Pin Description

Pin No.	Symbol	I/O	Description	Pin No.	Symbol	I/O	Description
1~4	8G~5G	O	FL grid control output	34	SUBQ	I	Peak level data input
5	S9	O	FL segment control output	35	L.ON	O	Laser on signal output
6~9	4G~1G	O	FL grid control output	36	MUTE	O	Mute signal output
10~17	S1~S8	O	FL segment control output	37	POWER OFF	--	H:Power on L:Pwer off
18	GND	--	Ground	38~44	KEYO0~KEYO6	O	Key signal output
19	-VDISP	I	FL power supply	45~48	KEYI0~KEYI3	I	Key signal input
20	DFCT	O	Signal turns "H" during focus search	49	RESET	I	Reset signal input
21	XCX	O	Signal turns "H" when setting the tracking loop to "OFF"	50	TEST	I	Test mode input : connect yo + 5V
22	RMIN	I	Remote Control Signal Input Not use for XL-V161TN/V162BK	51	OSC 1	I	Clock oscillation input
23	scor	O	Signal turns "H" when detecting sub code syncro S0 or S1	52	OSC 2	O	Clock oscillation output
24	CLSW	I	Close switch : active "LOW"	53	GND	--	Ground
25	OPSW	I	Open switch : active "LOW"	54	CL OK	O	Clock signal output for serial data
26	SENS	I	Sens signal input	55	DATA	O	Serial data output to IC401
27	TEST	I	Test mode input	56	XLAT	O	Latch signal for serial data transfer to IC401
28	CLOSE	O	Close signal output	57	DCS OUT	O	Compu-link signal output
29	OPEN	O	Open signal output	58	DCS IN	I	Compu-link signal input
30	DFL	O	Digital filter latch signal output	59	LOCK	I	Lock signal input
31	RSBDN	O	Reset pin/digital attenetsion contorol pin	60	F OK	I	Focus OK signal input
32	RSBUP	O	Reset pin/digital attenetsion contorol pin	61	SR	--	Chip select : connect to ground
33	SQCK	O	Clock output for SUBQ	62~64	11G~9G	O	FL grid control output

■ CXA1571S(IC501) : RF AMP

1. Block Diagram



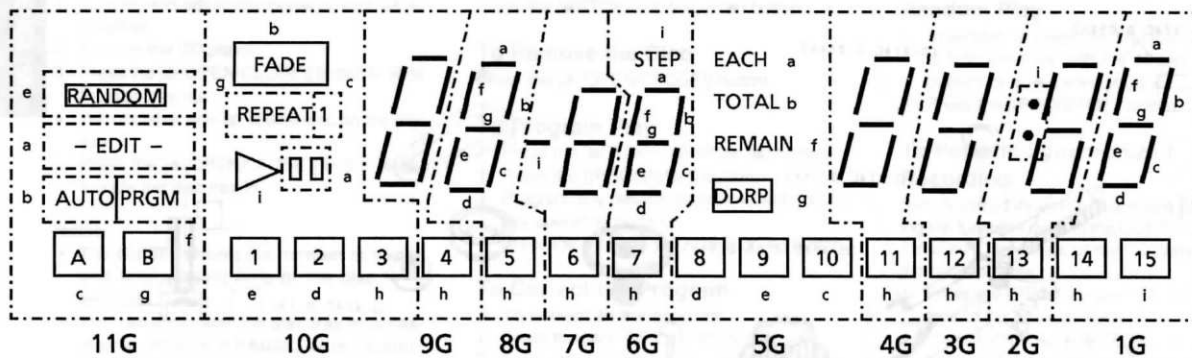
2. Pin Description

Pin No.	Symbol	I/O	Description
2	LD	O	APC(Automatic Power Control) amp output pin.
3	PD	I	APC amp input pin.
4	PD1	I	RF I-V amp inverted input pins; they are connected to the A + C and B + D pins of the photodiode and receive current input.
5	PD2	I	
7	F-IN	I	F and E I-V amp inverted input pin; they are connected to Photodiodes F and E and receive current input.
8	E-IN	I	
9	VR	O	(VCC + VEE) / 2 DC voltage output pin.
10	VC	I	VC intermediate voltage input pin; when dual $\pm 5V$ power supplies are used, this pin is connected to GND; for a single + 5V power supply, it is connected to the VR pin.
13	EO	O	Monitor output pin for I-V amp E.
14	EI	I	Gain adjustment pin for I-V amp E.
15	TE	O	Tracking error amp. output pin.
16	FE-BIAS	I	Bias adjustment pin for the mon-inverted side of the focus error amp.
17	FE	O	Focus error amp. output pin.
18	RFO	O	RF amp output pin.
19	RF I	I	RF inverted side input pin; the resister connected between this pin and the RFO pin determines the gain of the RF amp.
20	LD-ON	I	This pin switches the APC amp on / off: on for VCC, off for ground.

Internal Connections of FL Display Tube

■ ELU0001-114 (FL201)

1. Grid Layout



2. Pin Connection

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Electrode	F1	F1	NP	NC	11G	10G	9G	8G	7G	6G	5G	P (i)	4G	3G	2G	1G	P (a)	P (b)	P (f)

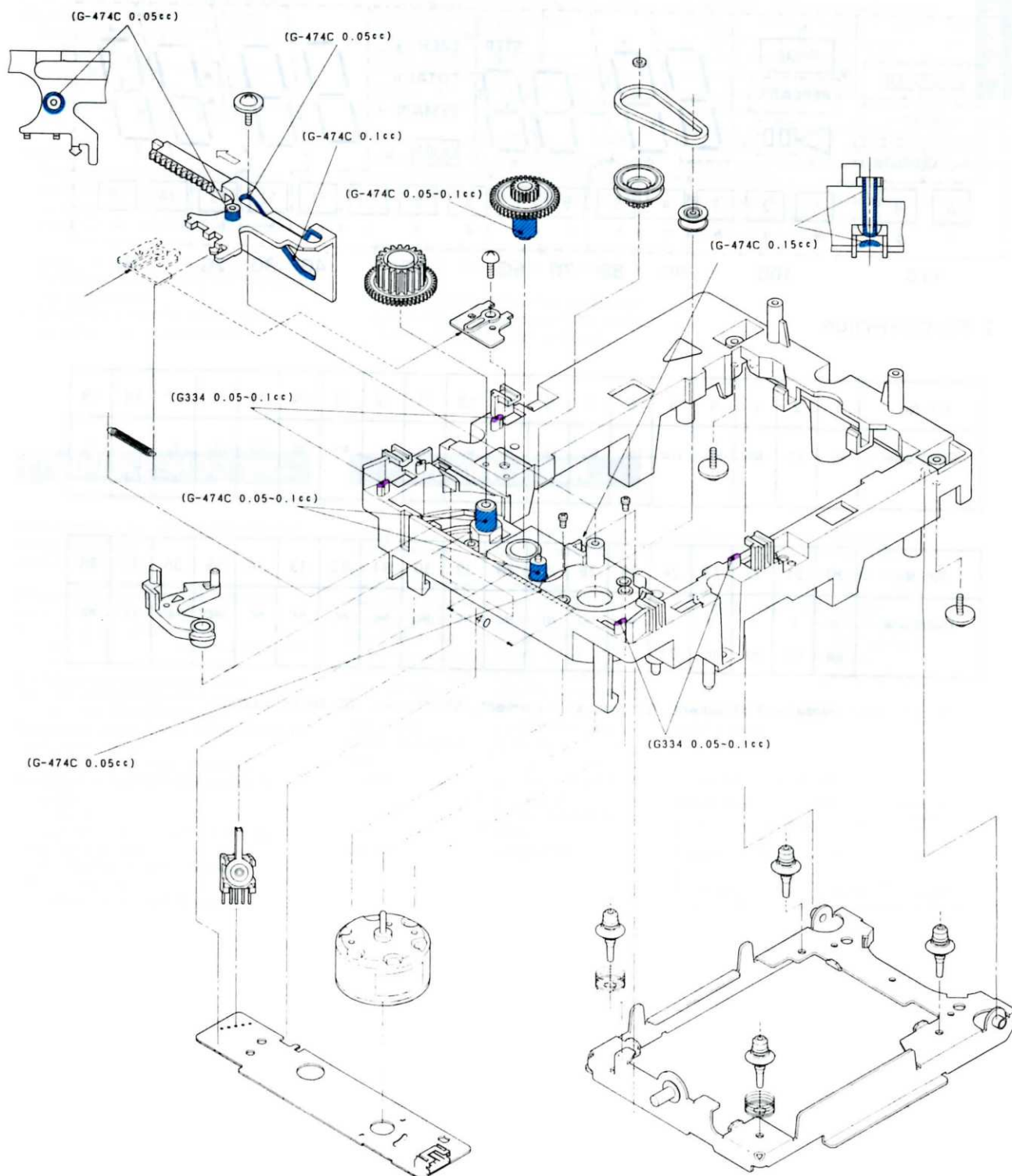
Pin No.	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Electrode	P (g)	P (c)	P (e)	P (d)	P (h)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NP	F2	F2

Note F: Filament, G: Grid, a~i: Element, NP: No pin, NC: No connection

Application Points for Grease

Grease used

-  G-334 (Shin-Etsu Chemical Co., Ltd.)
-  G-474C (Kanto Chemical Co., Ltd.)



Grease part numbers

G-334: EBS0006-009B

G-474C: EBS0006-019B

Disassembly Procedures

1. Removing the metal cover

- 1) Remove the 4 screws holding the both sides of the metal cover, and the 2 screws holding the rear side of it.
- 2) Gently spread both sides of the metal cover to the outside, lift up the rear section, and remove the metal cover.

2. Removing the tray assembly

- 1) Remove the metal cover.
- 2) Turn on the power. Press the OPEN / CLOSE switch to move the tray out and the power off.
- 3) Remove the screw ① on the tray.
- 4) Pull the tray toward the front to move it.

Note: If the power can not be turned on due to a malfunction, etc., insert a Philips screwdriver through the hole on the bottom and turn it clockwise to move the tray out.

3. removing the mechanism assembly

- 1) Remove the metal cover.
- 2) Remove the tray assembly.
- 3) Remove the 2 screws ② holding the clamp assembly, then remove the clamp assembly.
- 4) Remove the 3 screws ③ holding the mechanism assembly.

4. Removing the rear panel

- 1) Remove the 6 screws ④ holding the rear panel. (8 screws ④, ⑤ for with AC selector)
- 2) Remove the rear panel.

5. Removing the main P.C. Board

(FSN-004-1 for XL-V161TN/162BK, FSN-005-1 for XL-V261TN/262BK)

- 1) Remove the metal cover.
- 2) Remove the rear panel.
- 3) Remove the 4 screws ⑥ holding the P.C. board and 2 screws ⑦ holding the transformer.
- 4) Remove the connectors connecting with the main P.C. board.

6. Removing the front panel assembly

- 1) Remove the metal cover.
- 2) Remove the tray assembly.
- 3) Remove the screw ⑧ on the bottom of the front panel.
- 4) Remove the connector.
- 5) Remove the screw ⑨ holding the bracket.
- 6) Release the hooks ⑩ holding the front panel and remove the front panel assembly.

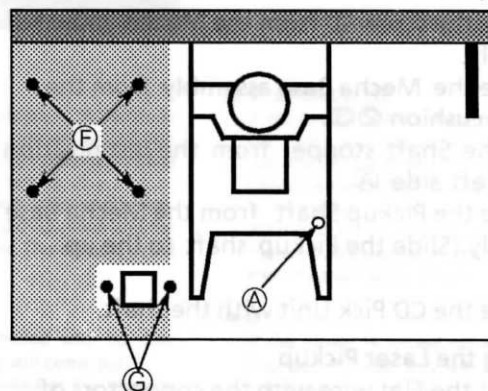


Figure 1

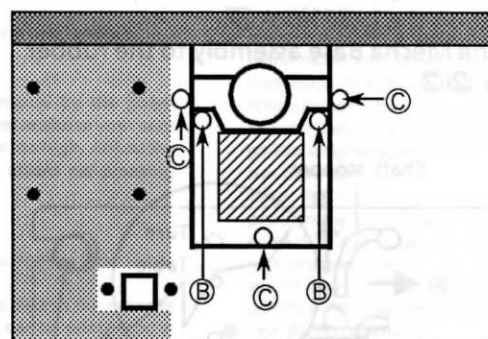


Figure 2

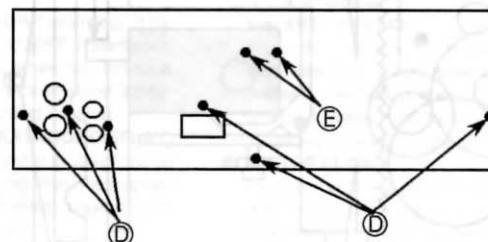


Figure 3

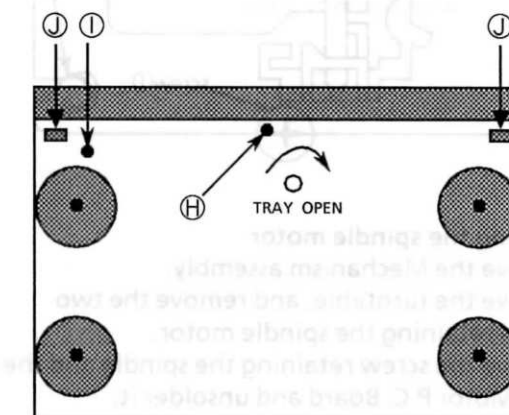


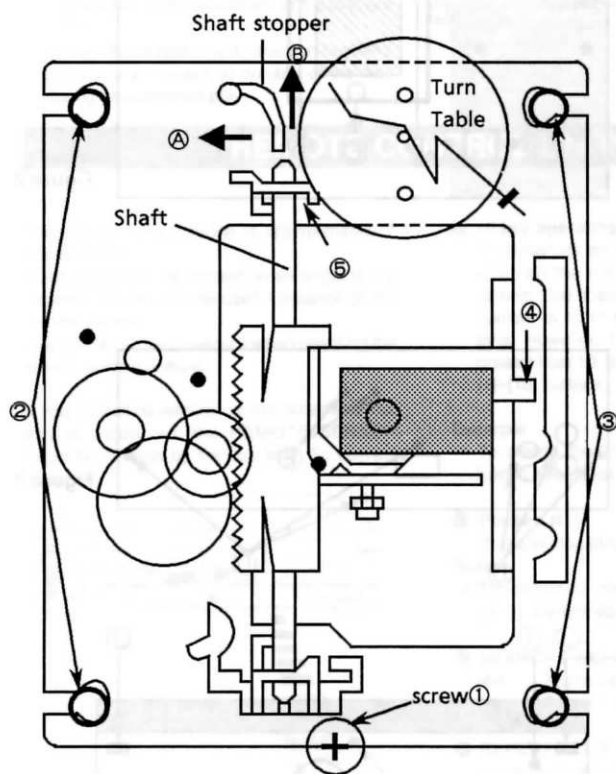
Figure 4

7. Removing the Laser Pickup

- 1) Remove the metal cover, tray assembly and the clamp.
- 2) Remove the screw ① from the Mecha Base assembly.
- 3) Remove the Mecha Base assembly from the rubber cushion ②③.
- 4) Move the Shaft stopper from the rest position to the left side ④.
- 5) Remove the Pickup Shaft from the Mecha Base assembly. (Slide the Pickup shaft to the up side ⑤)
- 6) Remove the CD Pick Unit with the shaft.

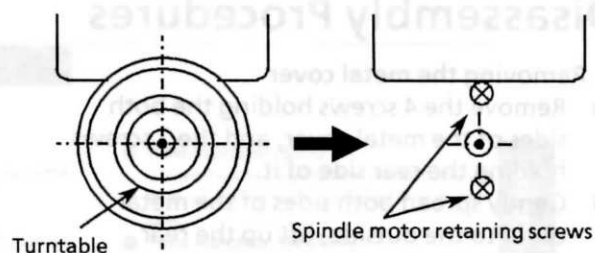
8. Installing the Laser Pickup

- 1) Connect the Flat wire with the connectors of APC (Automatic Power Control) P.C. Board.
- 2) While installing the ④ in the CD Support, set the shaft on the base hook ⑤.
- 3) Install the Mecha Base assembly to the rubber cushion ②③..



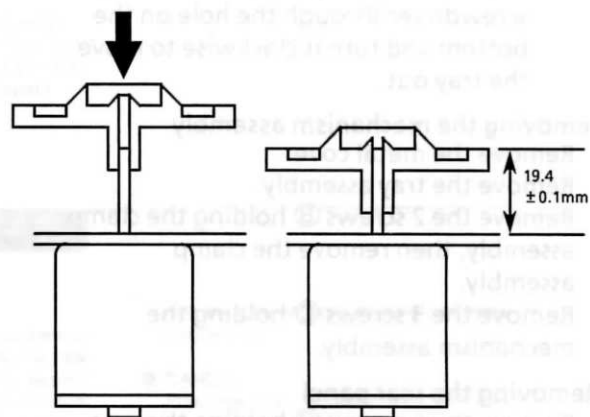
9. Removing the spindle motor

- 1) Remove the Mechanism assembly.
- 2) Remove the turntable, and remove the two screws retaining the spindle motor.
- 3) Remove the screw retaining the spindle and the Feed Motor P.C. Board and unsolder it.

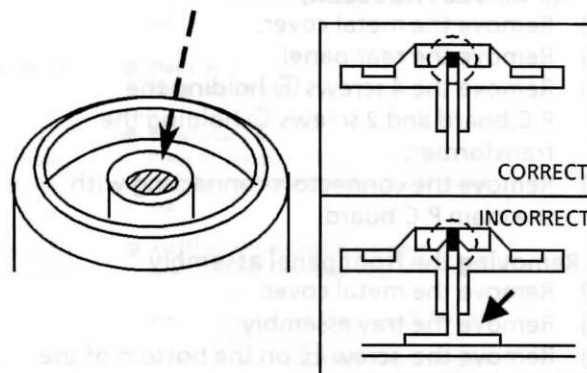


10. Installing the spindle motor

- 1) Tighten the 2 screws to the same torque.
- 2) Fasten the Spindle and the Feed Motor P.C. Board with the screw and solder.
- 3) Install the turntable. When installing, press straight down at the center of the turntable until the distance from the surface of the mechanism base to the top of the turntable is exactly $19.4 \pm 0.1\text{mm}$.

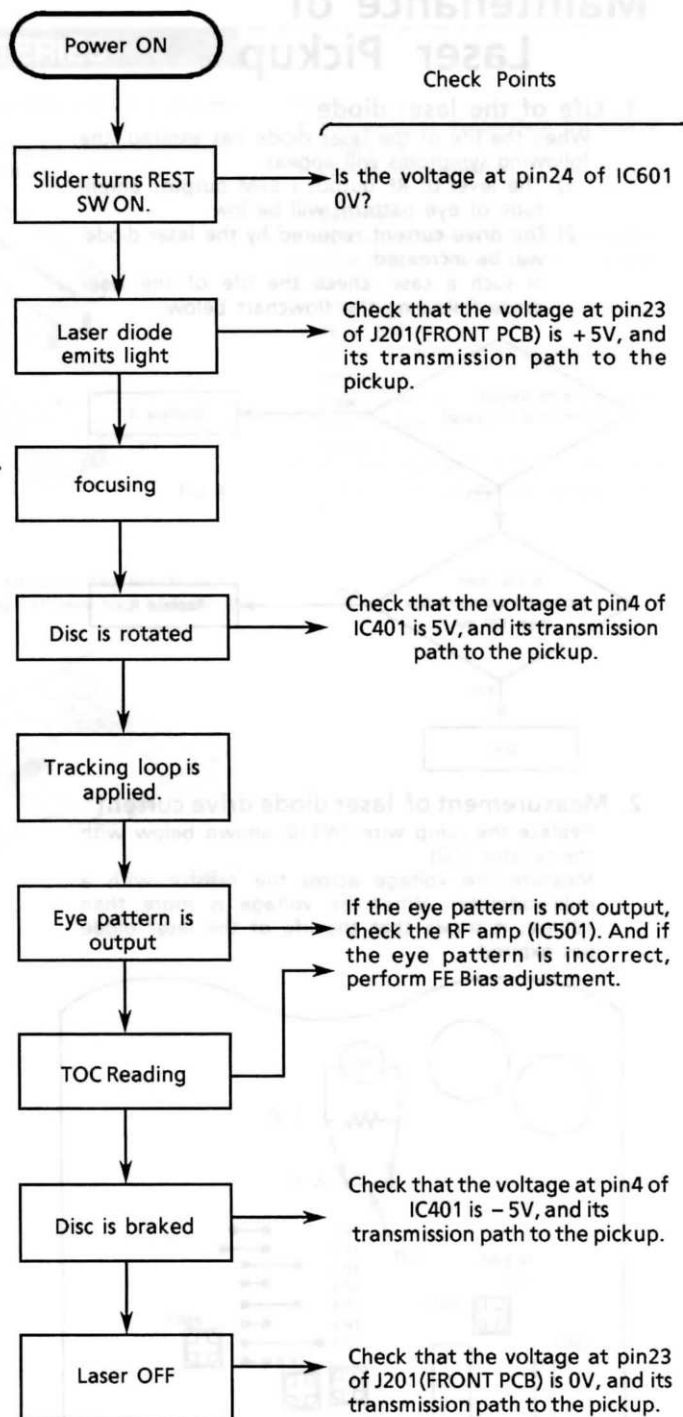
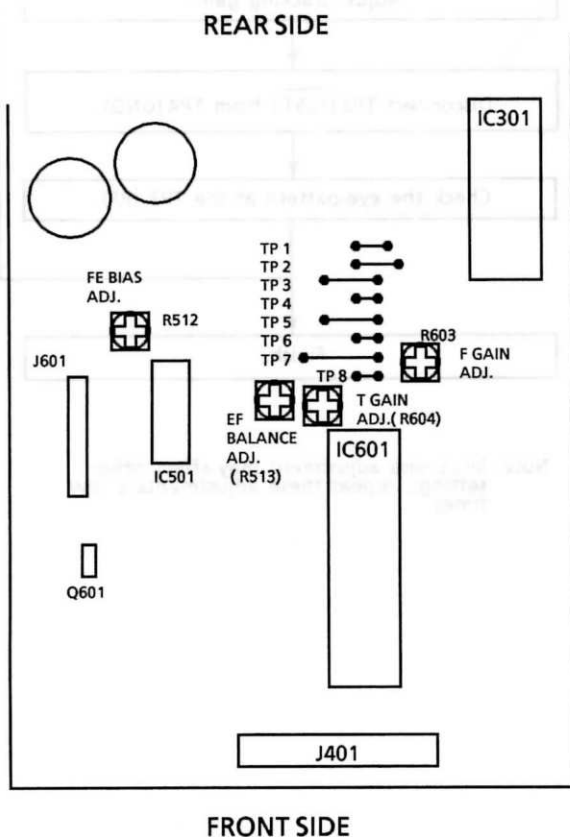
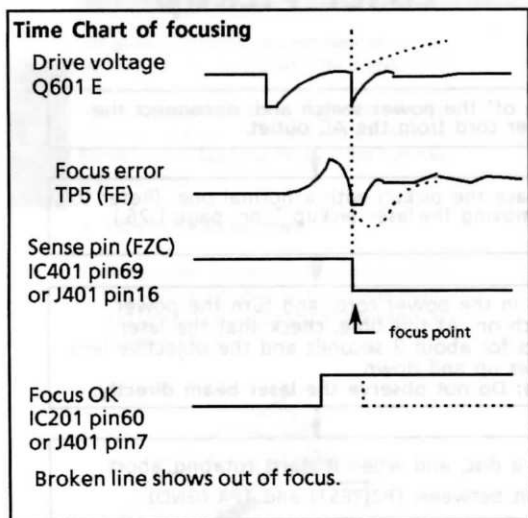


- 4) After insertion is complete, bond the motor shaft and turntable together (at the section marked by an arrow in the figure on the left below).



- 5) Use "LOCTITE" #460 bonding agent, and apply as little as possible. Take care not to allow any excess bonding agent to get onto the turntable. Be extremely careful not to allow bonding agent to adhere to the motor bearings (the section marked by an allow in the figure on the right).

Flow of Functional Operation Until TOC is Read



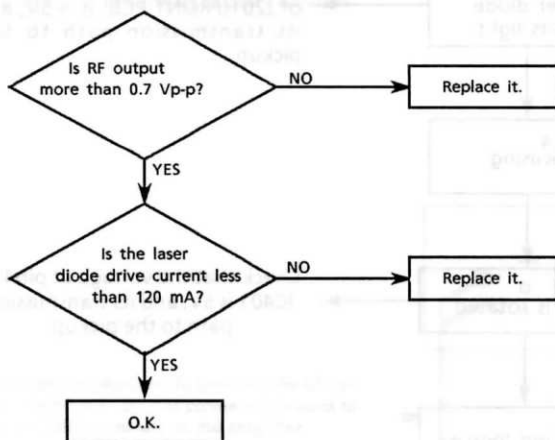
Maintenance of Laser Pickup

1. Life of the laser diode

When the life of the laser diode has expired, the following symptoms will appear.

- 1) The level of RF output (EFM output: amplitude of eye pattern) will be low.
- 2) The drive current required by the laser diode will be increased.

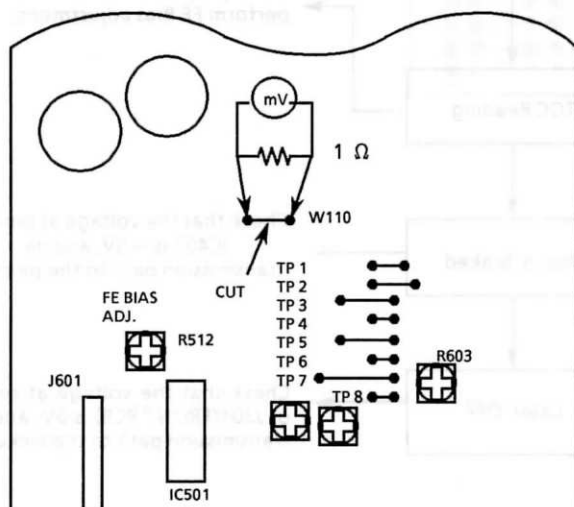
In such a case, check the life of the laser diode following the flowchart below.



2. Measurement of laser diode drive current

Replace the jump wire (W110) shown below with the resistor (1Ω).

Measure the voltage across the resistor with a milli-voltmeter. When the voltage is more than 120mV, it shows that the life of the laser diode has expired



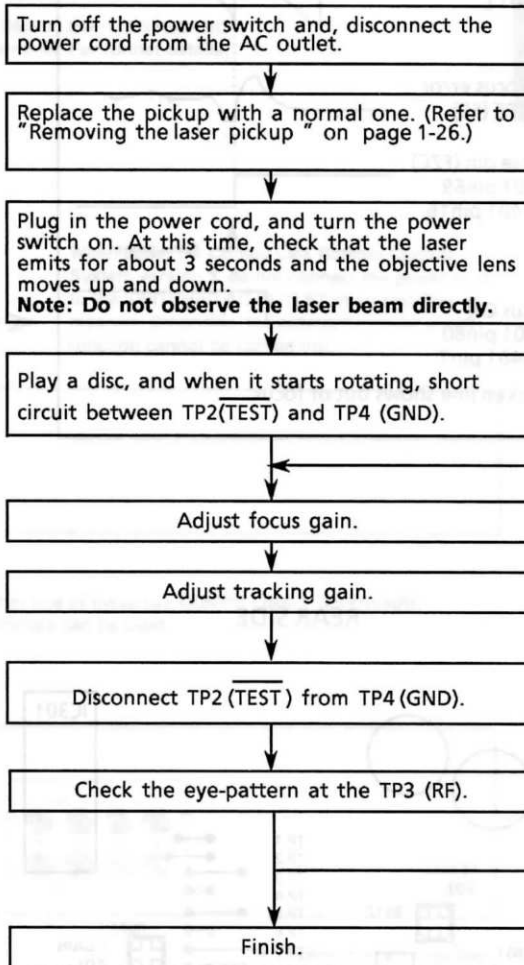
3. Semi-fixed resistor on the APC PC board

The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power. Since this adjustment should be performed to match the characteristics of the whole optical block, **do not touch the semi-fixed resistor.**

If the laser power is lower than the specified value, the laser diode is almost worn out, and the laser pickup should be replaced.

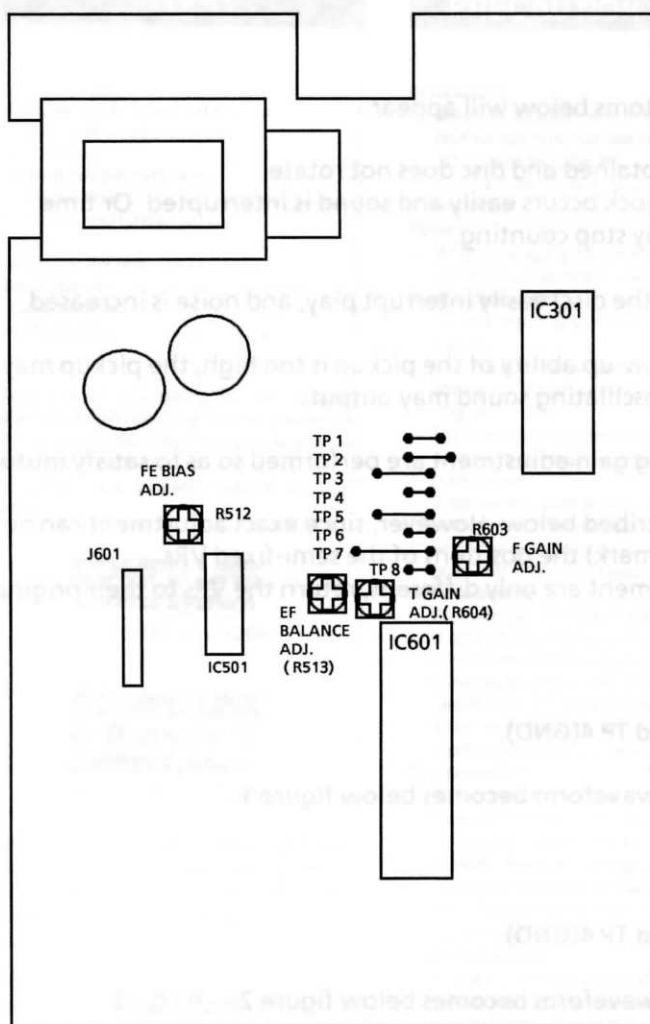
If the semi-fixed resistor is adjusted while the pickup is functioning normally, the laser pickup may be damaged due to excessive current.

Replacement of Laser Pickup



Note: Since one adjustment may affect other settings, repeat these adjustments a few times.

Adjustment Procedures



■ FE Bias

1. Connect an oscilloscope to TP 5(FE) and TP 4(GND).
2. Adjust R512(FE bias) so that the DC voltage at TP 5 becomes $0 \pm 10\text{mV}$.

■ EF balance

1. Connect an oscilloscope to TP 7(TE) and TP 4(GND).
2. Load a disc and press the play button.
3. Short-circuit between TP 2(TEST) and TP 4(GND).
4. Adjust R513(EF balance) so that the center of the waveform at TP 7(TE) becomes 0V.

■ Gain adjustment

If the gain is out of adjustment, the symptoms below will appear.

● Gain too low

- Focus gain : Focus is not obtained and disc does not rotate.
- Tracking gain : Mechanical shock occurs easily and sound is interrupted. Or time counter display stop counting.

● Gain too high

- Focus gain : Scratches (on the disc) easily interrupt play, and noise is increased during play.
- Tracking gain : Since the follow-up ability of the pickup is too high, the pickup may oscillate and oscillating sound may output.

As described above, the focus and tracking gain adjustment are performed so as to satisfy mutually contradictory characteristics.

A simplified adjustment procedure is described below. However, since exact adjustment can not be performed prior to adjustments, note(or mark) the positions of the semi-fixed VRs.

If the positions after the simplified adjustment are only different, return the VRs to their original position.

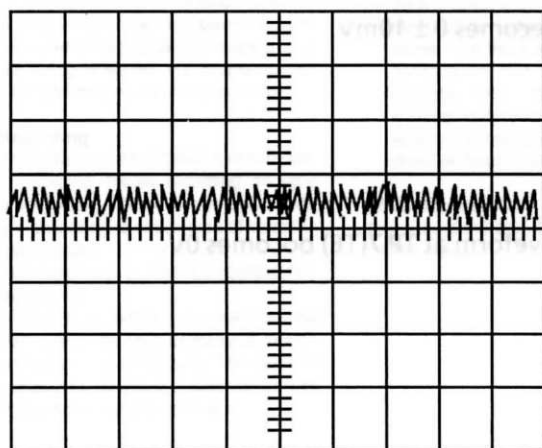
Focus gain adjustment

1. Connect an oscilloscope to TP 5(FE) and TP 4(GND).
2. Load a disc and press the PLAY button.
3. Adjust R603(F.GAIN ADJ.) so that the waveform becomes below figure 1.

Tracking gain adjustment

1. Connect an oscilloscope to TP 7(TE) and TP 4(GND).
2. Load a disc and press the PLAY button.
3. Adjust R604(T.GAIN ADJ.) so that the waveform becomes below figure 2.

Focus Gain Adjustment

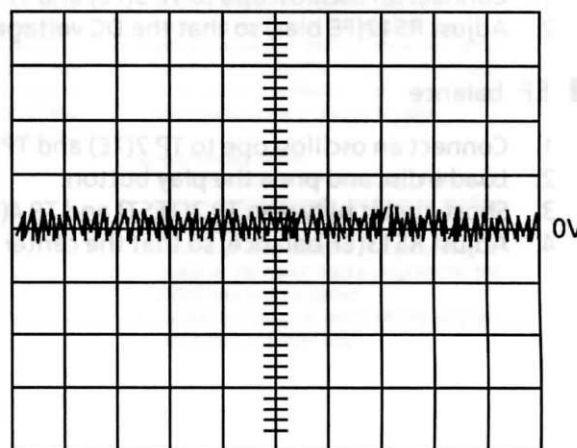


200mV / div.

0.2ms / div.

Figure - 1

Tracking Gain Adjustment

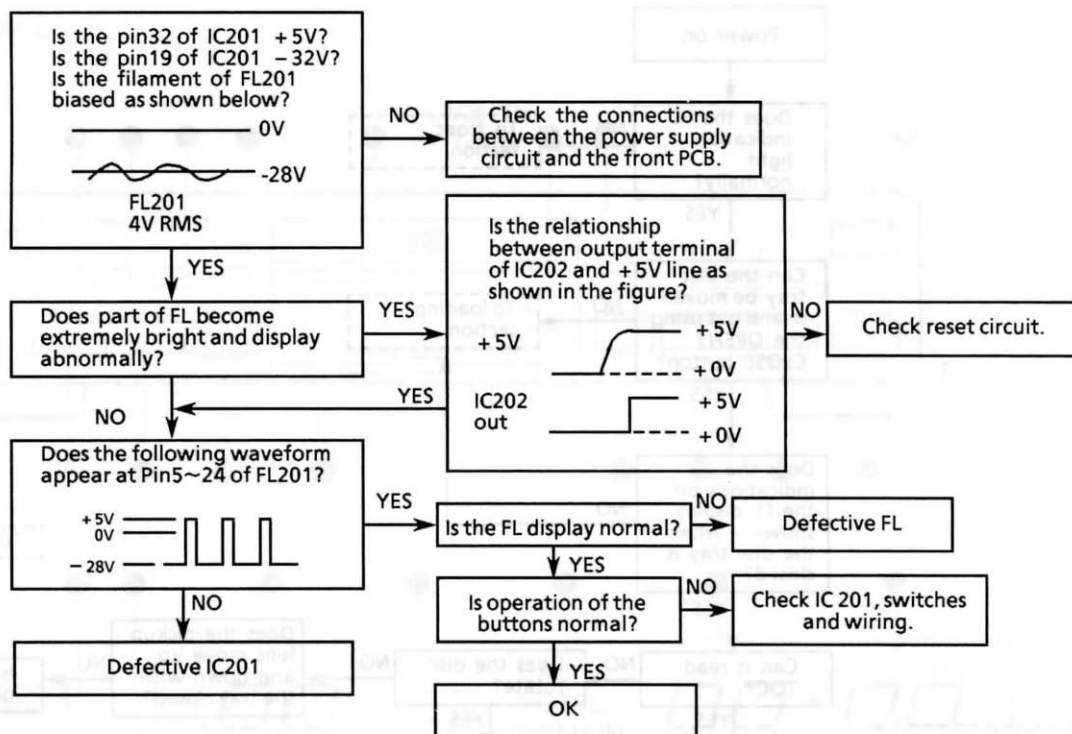


500mV / div.

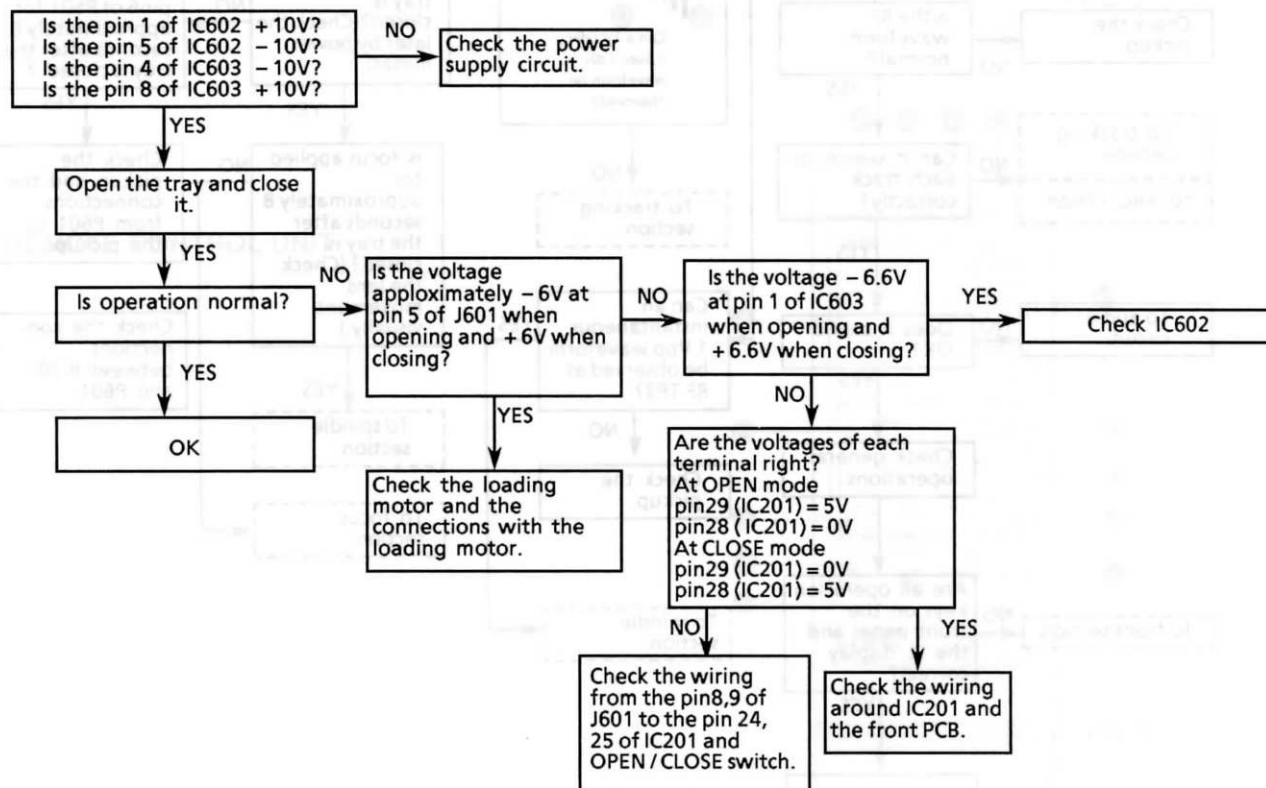
0.2ms / div.

Figure - 2

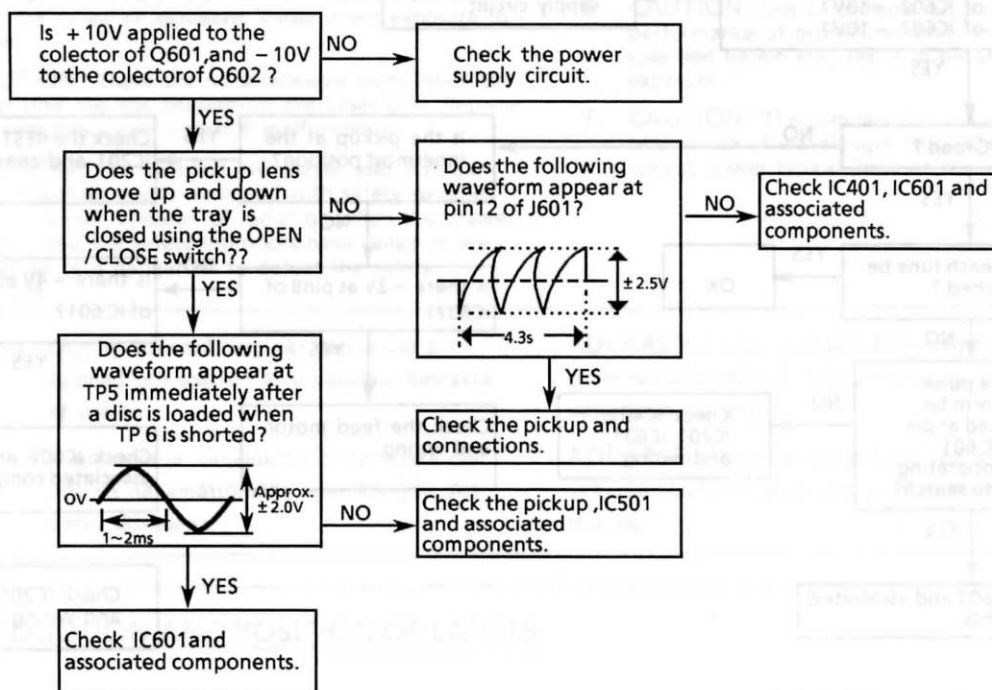
Front Section



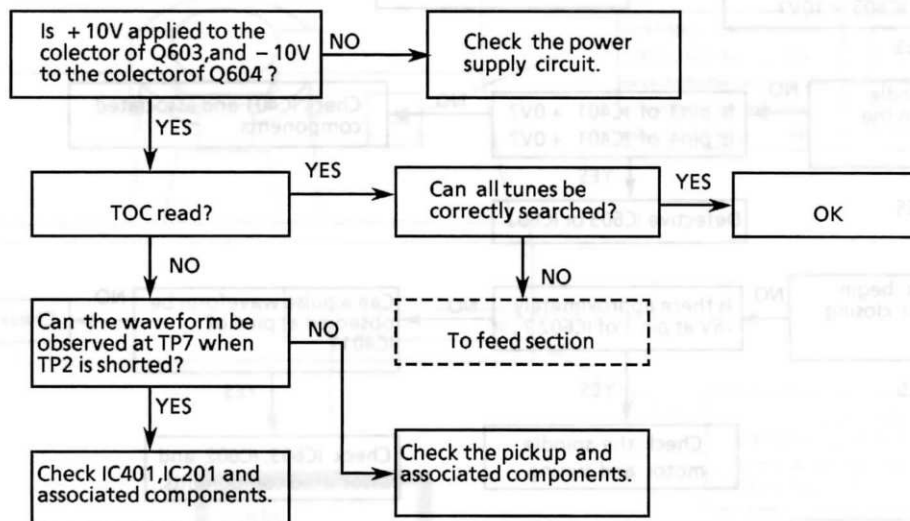
Loading section



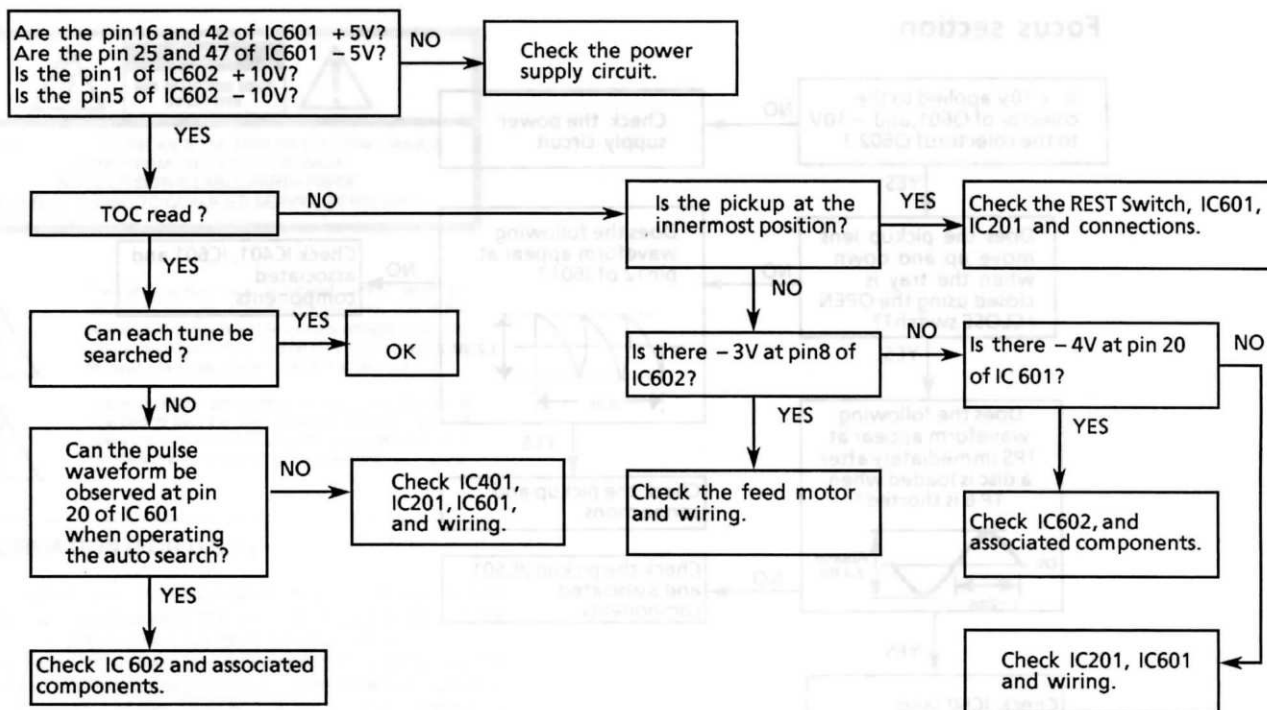
Focus section



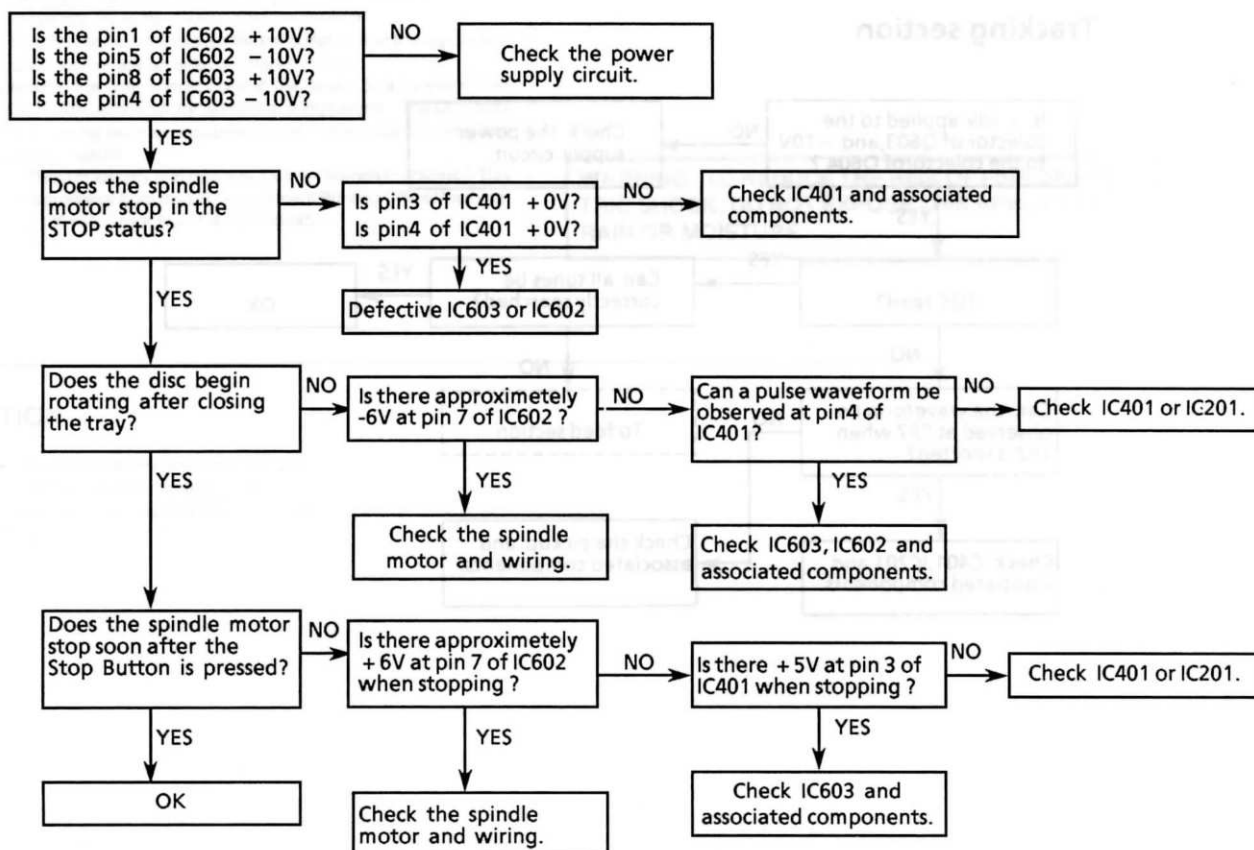
Tracking section



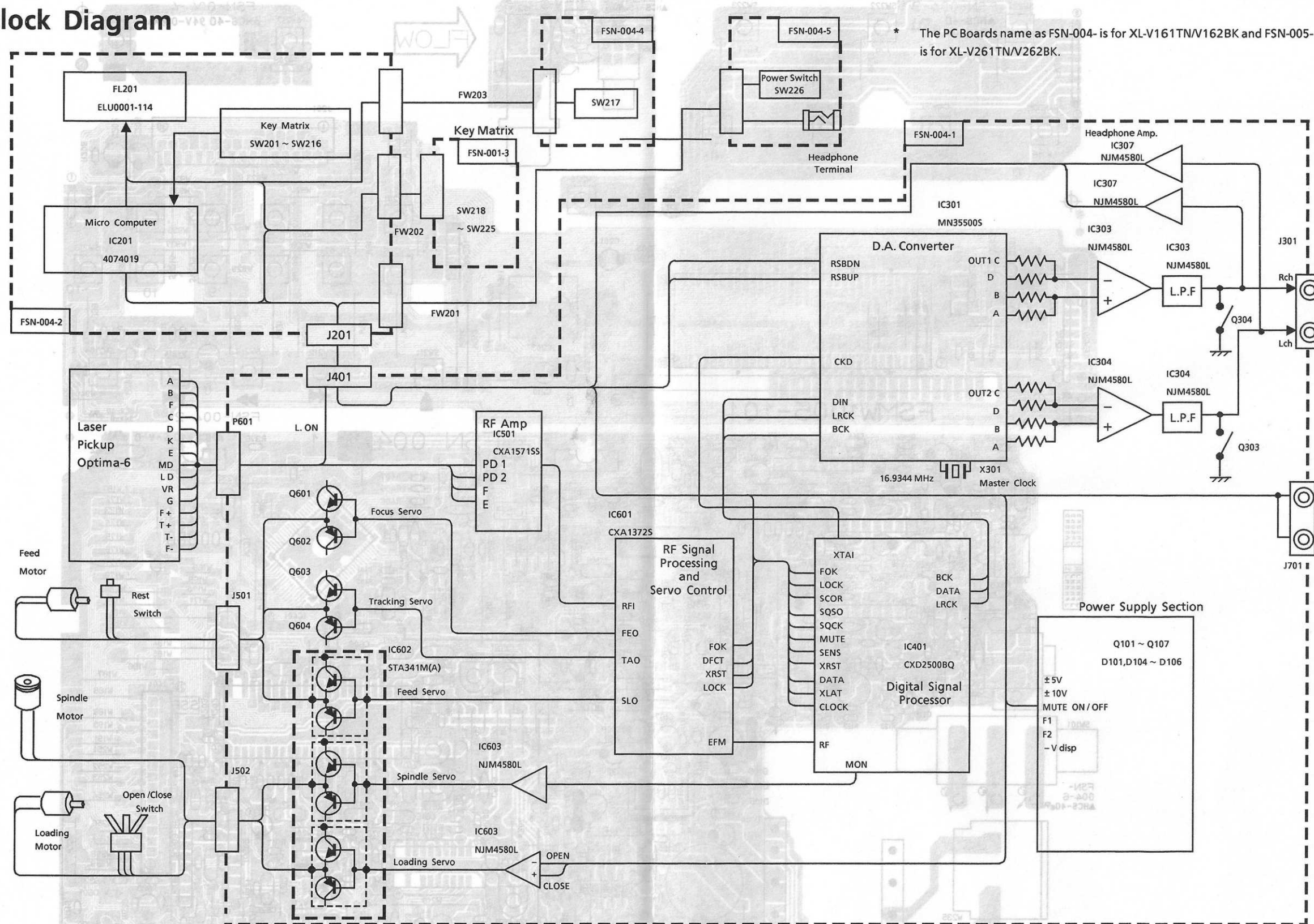
Feed section



Spindle section



Block Diagram

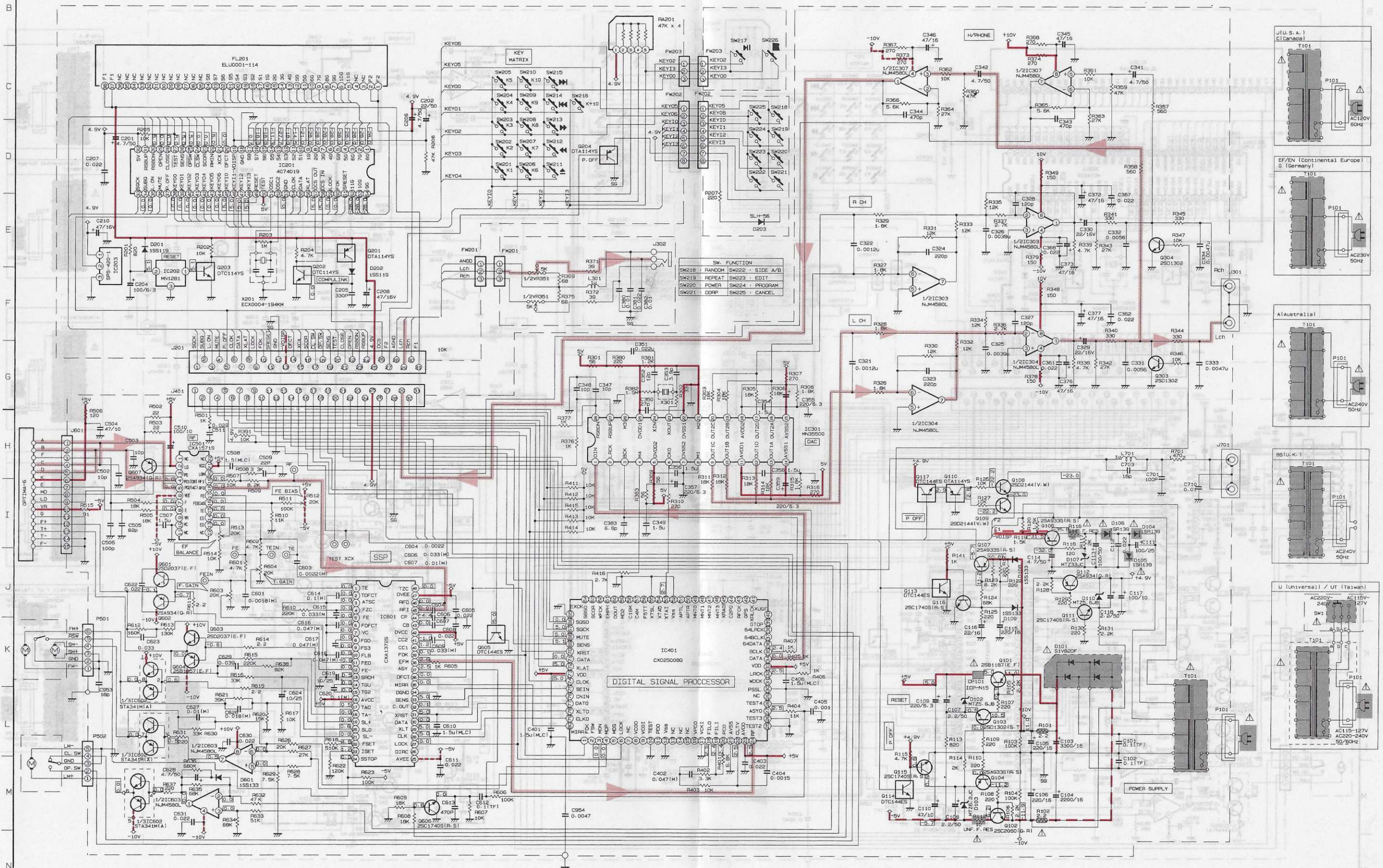


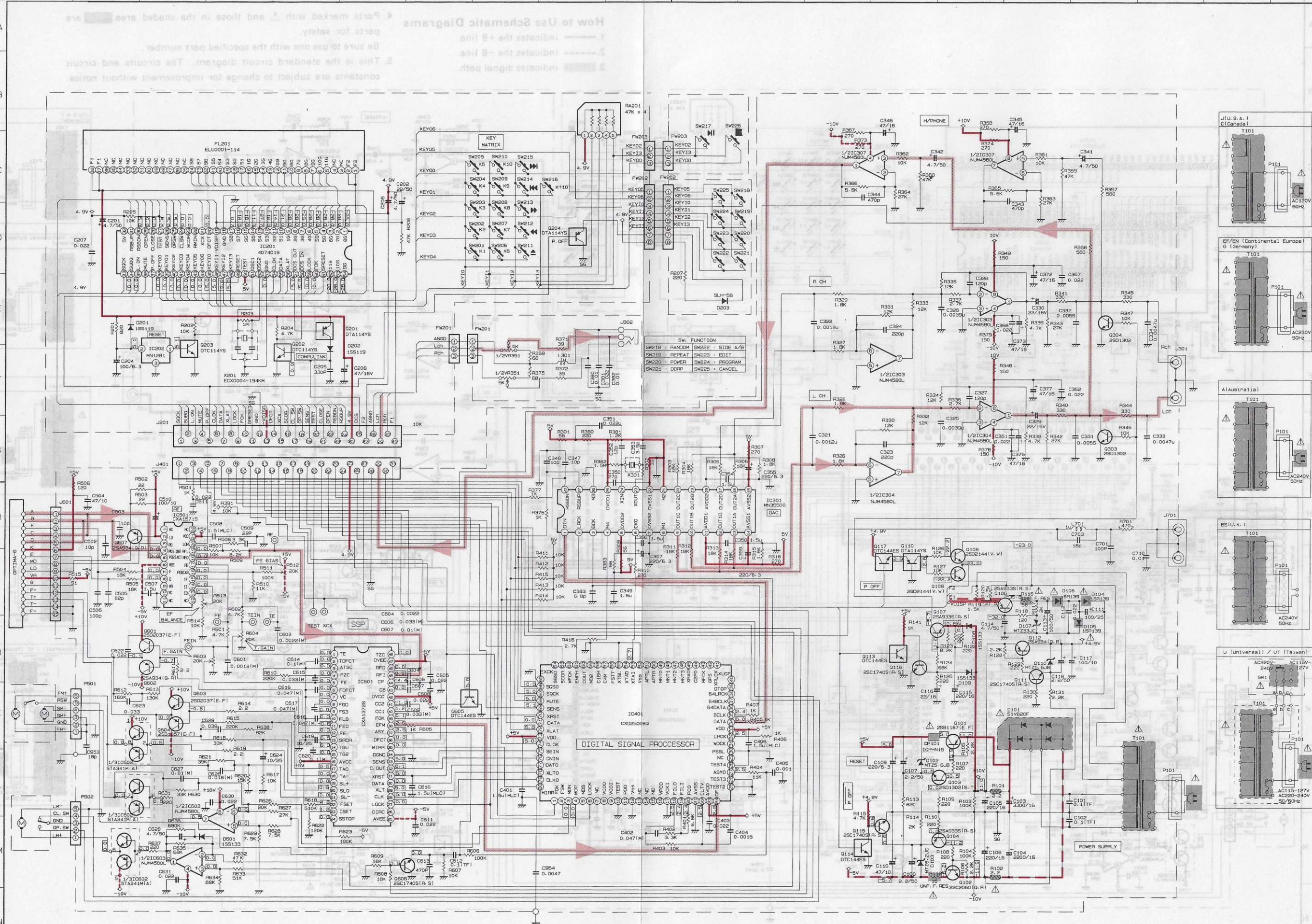
* The PC Boards name as FSN-004- is for XL-V161TN/V162BK and FSN-005- is for XL-V261TN/V262BK.

How to Use Schematic Diagrams

1. — indicates the +B line.
2. - - - indicates the -B line.
3. ■ indicates signal path.

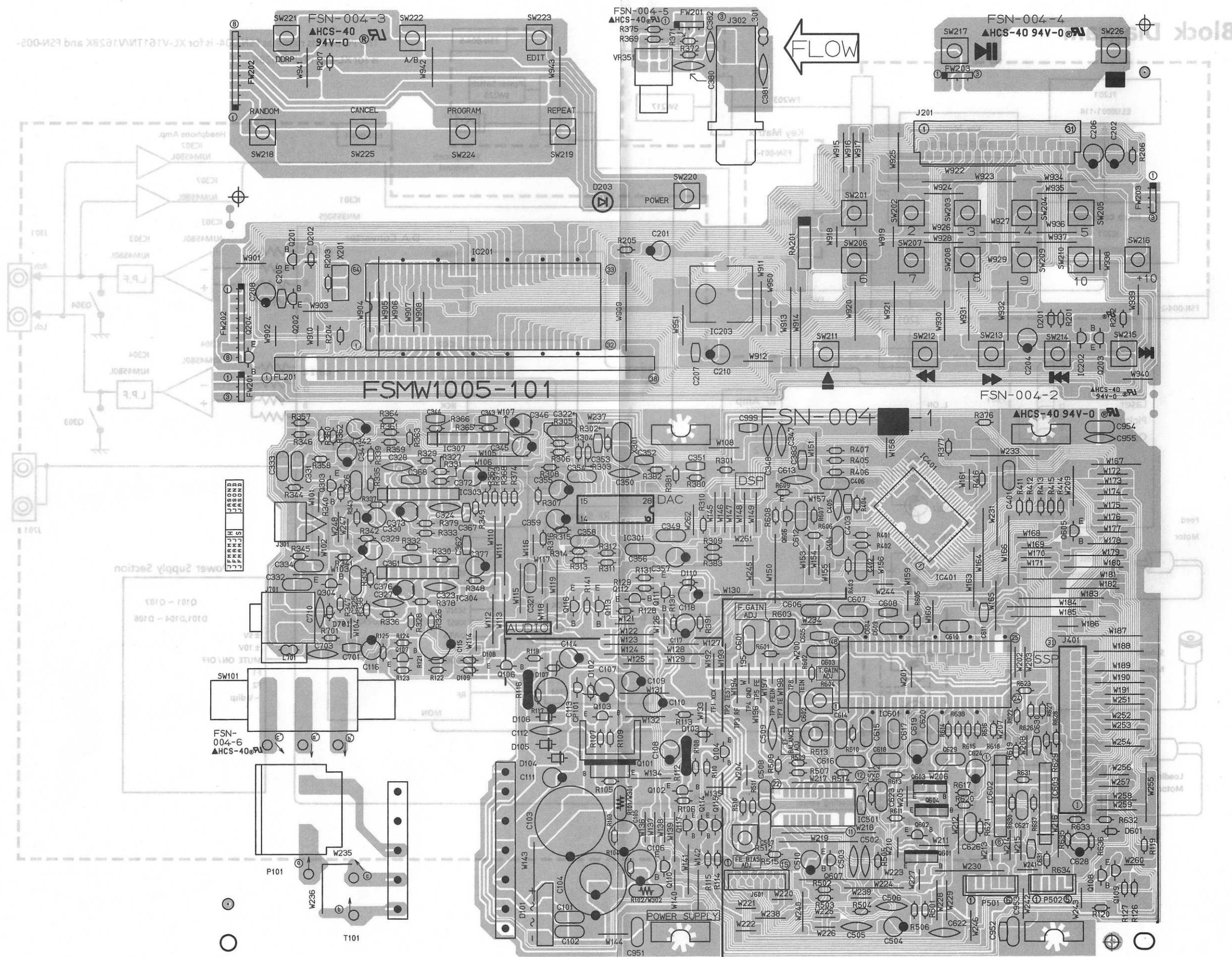
4. Parts marked with Δ and those in the shaded area are parts for safety.
Be sure to use one with the specified part number.
5. This is the standard circuit diagram. The circuits and circuit constants are subject to change for improvement without notice.





Printed Circuit Board

XL-V161TN/V162BK
XL-V261TN/V262BK
XL-V161TN/V162BK
XL-V261TN/V262BK



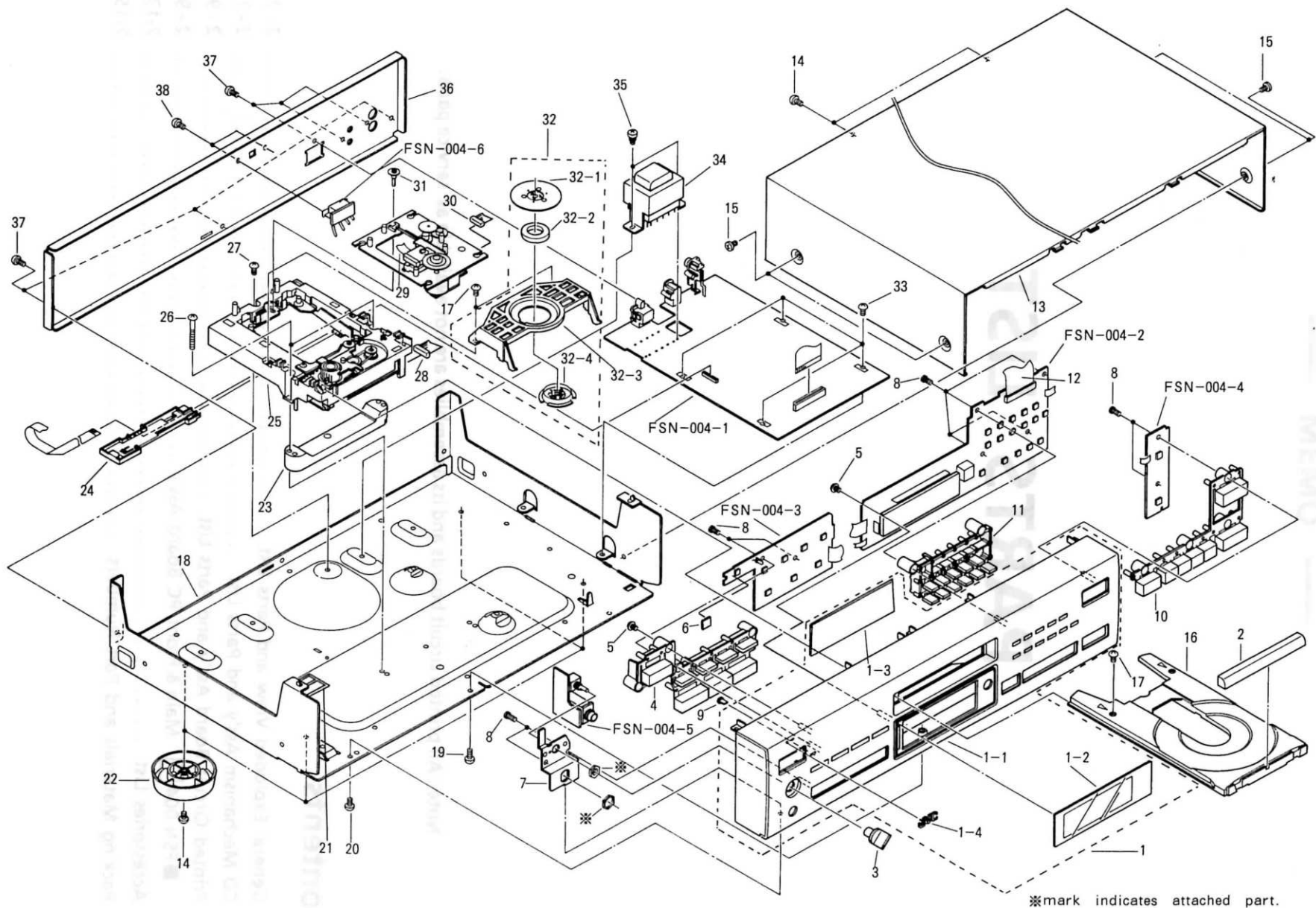
PARTS LIST

Note : All printed circuit boards and its assemblies are not available as service parts.

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■ FSN-004 □ Main & Front PC Board Ass'y	2-9
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Packing Materials and Part Numbers	2-15

General Exploded View and Parts List



■ Parts List (XL-V161TN)

⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
	1	EFP-XLV161TNJ(S	FRONT PANEL ASSY	1		
	1-1	FSJC1002-001	FRONT PANEL	1		
	1-2	FSYH3002-005	WINDOW SCREEN	1		
	1-3	FSYH4003-001	FL SCREEN	1		
	1-4	VJD5429-001	JVC MARK	1		
	2	FSJC3002-003	FIITTING	1		
	3	E74179-007	OPERATION KNOB	1		
	4	FSXP2002-001	POWER BUTTON	1		
	5	FSYH4019-001	SPECIAL SCREW	2		
	6	VYSA1R4-107	FELT SPACER	1		
	7	FSKL4002-001	HEADPHONE BRACKET	1		
	8	SDSF2608Z	SCREW	10		
	9	FSJD4001-001	POWER INDICATOR	1		
	10	FSXP2003-001	PUSH BUTTON	1		
	11	FSXP2004-001	PUSH BUTTON	1		
	12	EWR631G-10TTJ2	FLAT WIRE	1		
	13	E206906-002SS	METAL COVER	1		
	14	SBST3008M	SCREW	6		
	15	E406308-001	SPECIAL SCREW	4		
	16	E102358-331SS	CD TRAY	1		
	17	SBSF3008M	SCREW	3		
	18	E102355-003SS	CHASSIS BASE	1		
	19	SDSF3008M	SCREW	1		
	20	SBSG3008M	SCREW	1		
	21	E406507-001	CAUTION LABEL	1		A
		E406507-001	CAUTION LABEL	1		C
		E406507-001	CAUTION LABEL	1		U
	22	FSYH4001-00A	FOOT ASSY	4		UT
	23	E307158-003SS	STAND	1		
	24	E308181-221SS	FFC HOLDER	1		
	25	-----	CD MECHANISM UNIT ASSY	1	SEE PAGE 2-7	
	26	SBST3025Z	SCREW	1		
	27	SBST3008Z	SCREW	1		
	28	EWS255-B101J1	SOCKET WIRE	1	5PIN	
	29	EWPZ02-001	FFC CABLE	1		
	30	EWS256-B102J1	SOCKET WIRE	1	6PIN	
	31	E406293-002	SPECIAL SCREW	1		
	32	E306837-005	CLAMPER ASSY	1		
	32-1	E306836-003	YOKE PLATE	1		
	32-2	E74897-002	MAGNET	1		
	32-3	E26756-002	CLAMPER BASE	1		
	32-4	E306835-001	CD CLAMPER	1		
	33	SBSG3008CC	SCREW	4		
	34	ETP1000-70AJ	POWER TRANSFORMER	1		J
⚠		ETP1000-70AJ	POWER TRANSFORMER	1		C
⚠		ETP1000-70EAJ	POWER TRANSFORMER	1		A
⚠		ETP1000-70LAJ	POWER TRANSFORMER	1		U
⚠		ETP1000-70LAJ	POWER TRANSFORMER	1		UT
	35	E65389-002	SPECIAL SCREW	2		
	36	E206904-051	REAR PANEL	1		J
		E206904-053	REAR PANEL	1		C
		E206904-053	REAR PANEL	1		A
		E206904-057	REAR PANEL	1		U
		E206904-057	REAR PANEL	1		UT

Part List (XL-V162BK)

△	Item	Part Number	Part Name	Q'ty	Description	Areas
	—	FSYN1006-003	RATING LABEL	1		C
		FSYN1006-007Z	RATING LABEL	1		U
		FSYN1006-015	RATING LABEL	1		UT
	37	E73273-006	SPECIAL SCREW	6		
	38	SBSF2608M	SCREW	2		U
		SBSF2608M	SCREW	2		UT
	—	E70891-001	LABEL	1		A
		E70891-001	LABEL	1		U
		E70891-001	LABEL	1		UT

△ SAFETY PARTS

The Marks for Designated Areas

J the U.S.A. C Canada A Australia
UT Taiwan U Universal Type No mark indicates all areas.

■ Parts List (XL-V162BK)

△	Item	Part Number	Part Name	Q'ty	Description	Areas
	1	EFP-XLV162BKU (S	FRONT PANEL ASSY	1		
	1-1	FSJC1002-002	FRONT PANEL	1		
	1-2	FSYH3002-006	WINDOW SCREEN	1		
	1-3	not use	FL SCREEN	—		
	1-4	VJD5429-001	JVC MARK	1		
	2	FSJC3002-004	FITTING	1		
	3	E74179-001	OPERATION KNOB	1		
	4	FSXP2002-002	POWER BUTTON	1		
	5	FSYH4019-001	SPECIAL SCREW	2		
	6	VYSA1R4-107	FELT SPACER	1		
	7	FSKL4002-001	HEADPHONE BRACKET	1		
	8	SDSF2608Z	SCREW	10		
	9	FSJD4001-001	POWER INDICATOR	1		
	10	FSXP2003-002	PUSH BUTTON	1		
	11	FSXP2004-002	PUSH BUTTON	1		
	12	EWR631G-10TTJ2	FLAT WIRE	1		
	13	E206906-004SS	METAL COVER	1		
	14	SBST3008M	SCREW	6		
	15	E406308-001	SPECIAL SCREW	4		
	16	E102358-332SS	CD TRAY	1		
	17	SBSF3008M	SCREW	3		
	18	E102355-003SS	CHASSIS BASE	1		
	19	SDSF3008M	SCREW	1		
	20	SBSG3008M	SCREW	1		
	21	E406507-001	CAUTION LABEL	1		A
		E406507-001	CAUTION LABEL	1		U
	22	FSYH4001-00B	FOOT ASSY	4		UT
	23	E307158-003SS	STAND	1		
	24	E308181-221SS	FFC HOLDER	1		
	25	-----	CD MECHANISM UNIT ASSY	1	SEE PAGE 2-7	
	26	SBST3025Z	SCREW	2		
	27	SBST3008Z	SCREW	1		
	28	EWS255-B101J1	SOCKET WIRE	1	5PIN	
	29	EWPZ02-001	FFC CABLE	1		
	30	EWS256-B102J1	SOCKET WIRE	1	6PIN	
	31	E406293-002	SPECIAL SCREW	1		
	32	E306837-005	CLAMPER ASSY	1		
	32-1	E306836-003	YOKE PLATE	1		
	32-2	E74897-002	MAGNET	1		
	32-3	E26756-002	CLAMPER BASE	1		
	32-4	E306835-001	CD CLAMPER	1		
	33	SBSG3008CC	SCREW	4		
△	34	ETP1000-70EAJ	POWER TRANSFORMER	1		A
△		ETP1000-70LAJ	POWER TRANSFORMER	1		U
△		ETP1000-70LAJ	POWER TRANSFORMER	1		UT
	35	E65389-002	SPECIAL SCREW	2		
	36	E206904-054	REAR PANEL	1		A
		E206904-058	REAR PANEL	1		U
		E206904-058	REAR PANEL	1		UT
	—	FSYN1006-007Z	RATING LABEL	1		U
		FSYN1006-015	RATING LABEL	1		UT
	37	E73273-006	SPECIAL SCREW	6		
	38	SBSF2608M	SCREW	2		U
		SBSF2608M	SCREW	2		UT

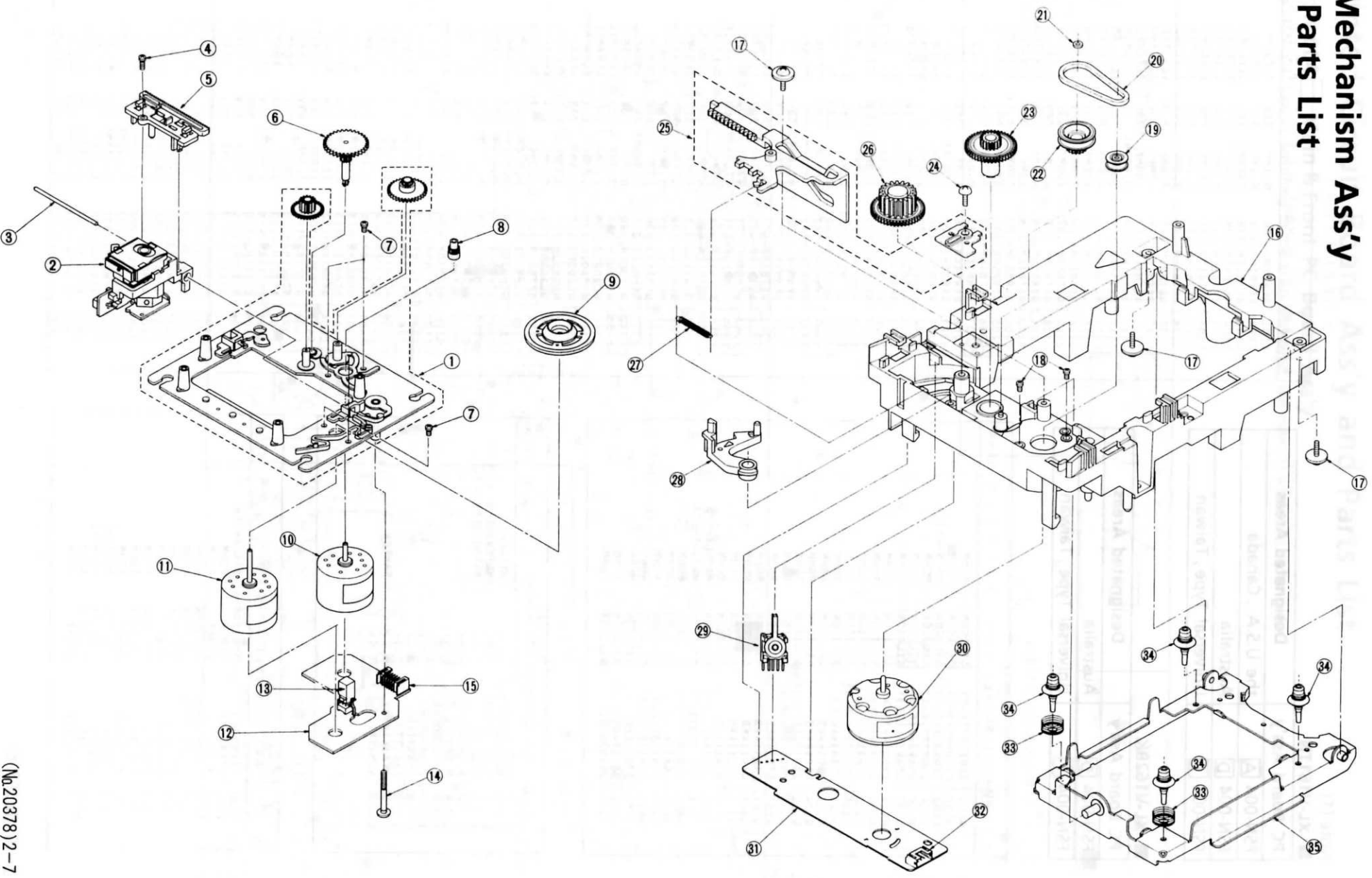
⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
	—	E70891-001	LABEL	1		A
		E70891-001	LABEL	1		U
		E70891-001	LABEL	1		UT

⚠ SAFETY PARTS

The Marks for Designated Areas

A Australia
U Universal Type
UT Taiwan
No mark indicates all area.

CD Mechanism Ass'y and Parts List



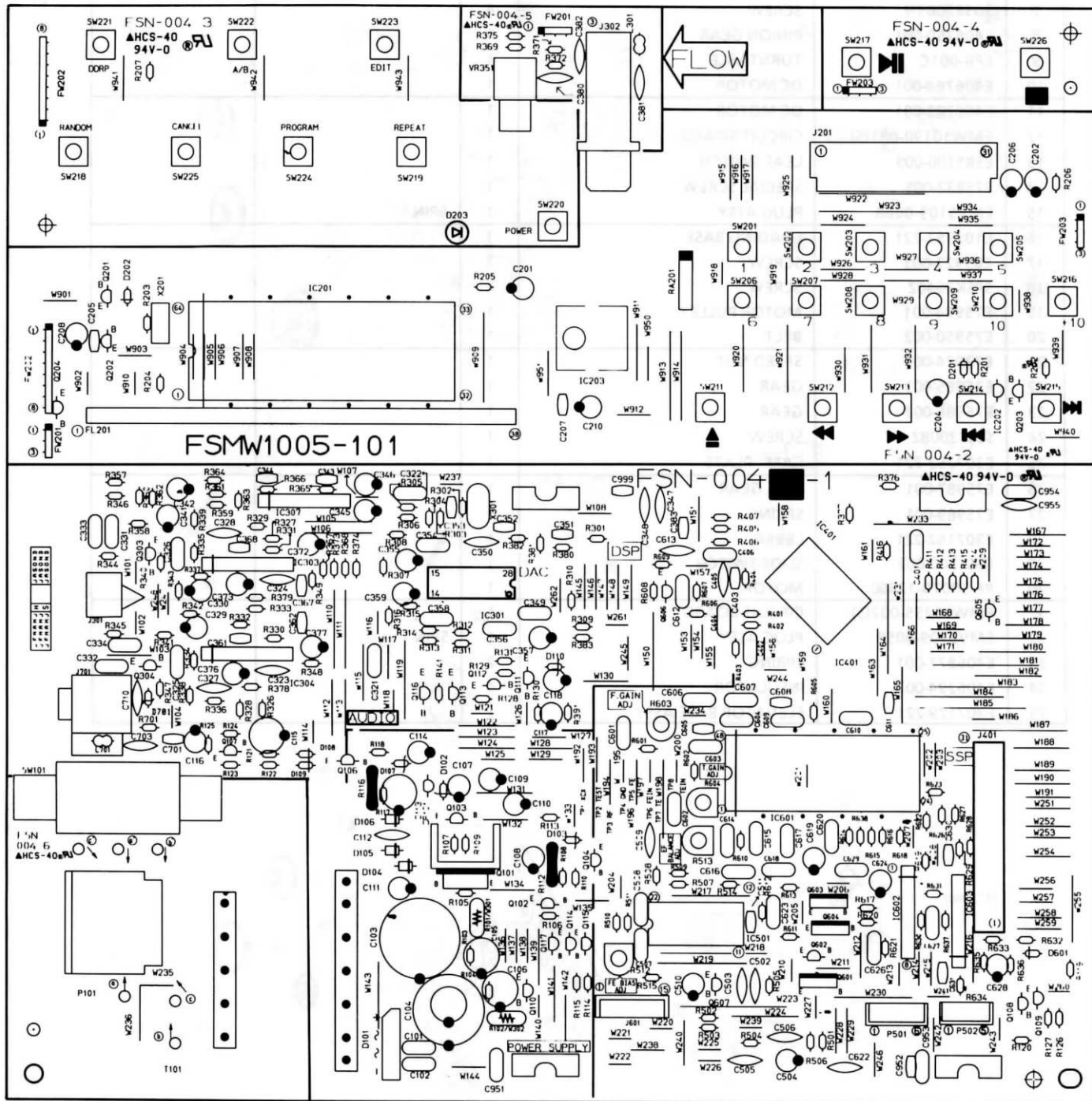
■ Parts List (CD Mechanism Ass'y)

Item	Part Number	Part Name	Q'ty	Description	Area
1	EPB-002A	MECHANISM BASE ASSY	1		
2	OPTIMA-6S	PICK UP ASS'Y	1		
3	E406777-001	SHAFT	1		
4	SDSF2006Z	SCREW	1		
5	E307746-001	CD RACK	1		
6	EPB-003A	MECHANISM BASE ASSY	1		
7	SDSP2003N	SCREW	4		
8	E406750-001	PINION GEAR	1		
9	EPB-001C	TURNTABLE	1		
10	E406784-001	DC MOTOR	1		
11	E406783-001	DC MOTOR	1		
12	EMW10190-001(S)	CIRCUIT BOARD	1		
13	ESB1100-005	LEAF SWITCH	1		
14	E75832-001	SPECIAL SCREW	1		
15	EMV5109-006B	PLUG ASSY	1	6PIN	
16	E102357-221	LOADING BASE	1		
17	E65923-003	SCREW	3		
18	SPSK2640Z	SCREW	2		
19	E75984-001	MOTOR PULLEY	1		
20	E75950-002	BELT	1		
21	E72024-001	SPEED NUT	1		
22	E75985-001	GEAR	1		
23	E75986-002	GEAR	1		
24	SBSF3008Z	SCREW	1		
25	E307252-221	CAM - PLATE	1		
26	E75987-001	REEL GEAR	1		
27	E75989-001	SPRING	1		
28	E307162-221	LEVER	1		
29	ESS1200-002	SLIDE SWITCH	1		
30	RF-500TB-12560	MOTOR	1		
31	EMW10255-002(S)	CIRCUIT BOARD	1		
32	EMV5109-005B	PLUG ASSY	1	5PIN	
33	E406871-001	SPRING	2		
34	E406294-002	INSULATOR	4		
35	E307179-221	ELEVATOR BASE ASSY	1		

Printed Circuit Board Ass'y and Parts List

■ FSN-004 □ Main & Front PC Board Ass'y

Note : FSN-004 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

■ XL-V161TN

PC Board Ass'y	Designated Areas
FSN-004 A	the U.S.A. , Canada
FSN-004 D	Australia
FSN-004 F	Universal Type , Taiwan

■ XL-V162BK

PC Board Ass'y	Designated Areas
FSN-004 D	Australia
FSN-004 F	Universal Type , Taiwan

TRANSISTORS

ITEM	PART NUMBER	DESCRIPTION	AREA
Q101	2SB1187(E,F)	SILICON ROHM	
Q102	2SC2060(Q,R)	SILICON ROHM	
Q103	2SD1302(S,T)	SILICON MATSUSHITA	
Q104	2SA933S(R,S)	SILICON ROHM	
Q106	2SA933S(R,S)	SILICON ROHM	
Q107	2SA933S(R,S)	SILICON ROHM	
Q108	2SD2144S(VW)	SILICON ROHM	
Q109	2SD2144S(VW)	SILICON ROHM	
Q110	DTA114YS	SILICON ROHM	
Q111	2SC1740S(R,S)	SILICON ROHM	
Q112	2SA934(Q,R)	SILICON ROHM	
Q113	DTC144ES	SILICON ROHM	
Q114	DTC144ES	SILICON ROHM	
Q115	2SC1740S(R,S)	SILICON ROHM	
Q116	2SC1740S(R,S)	SILICON ROHM	
Q117	DTC144ES	SILICON ROHM	
Q201	DTA114YS	SILICON ROHM	
Q202	DTC114YS	SILICON ROHM	
Q203	DTC114YS	SILICON ROHM	
Q204	DTA114YS	SILICON ROHM	
Q303	2SD1302(S,T)	SILICON MATSUSHITA	
Q304	2SD1302(S,T)	SILICON MATSUSHITA	
Q601	2SD2037(E,F)	SILICON ROHM	
Q602	2SA934(Q,R)	SILICON ROHM	
Q603	2SD2037(E,F)	SILICON ROHM	
Q604	2SB1357(E,F)	SILICON ROHM	
Q605	DTC144ES	SILICON ROHM	
Q606	2SC1740S(R,S)	SILICON ROHM	
Q607	2SA934(Q,R)	SILICON ROHM	

I. C. S.

ITEM	PART NUMBER	DESCRIPTION	AREA
IC201	HD404019RC04S	I.C. HITACHI	
IC202	MN1281(P,Q)	I.C. MATSUSHITA	F
IC301	MN35500	I.C. MATSUSHITA	
IC303	NJM4580L-S	I.C.	
IC304	NJM4580L-S	I.C.	
IC307	NJM4580L-S	I.C.	
IC401	CXD2500BQ	I.C.	
IC501	CXA1571S	I.C.	
IC601	CXA1372S	I.C.	
IC602	STA341M(A)	I.C. SANKEN	
IC603	NJM4580L	I.C.	

DIODES

ITEM	PART NUMBER	DESCRIPTION	AREA
D101	S1VB20F	SILICON SINDENGEN	
D102	MTZ5.6JB	ZENER ROHM	
D103	MTZ6.2JC	ZENER ROHM	
D104	1SR35-200A	SILICON ROHM	
D105	1SR35-200A	SILICON ROHM	
D106	1SR35-200A	SILICON ROHM	
D107	MTZ33JC	ZENER ROHM	
D108	1SS133	SILICON ROHM	
D109	1SS133	SILICON ROHM	
D110	MTZ5.6JB	ZENER ROHM	
D201	1SS119	SILICON HITACHI	
D202	1SS119	SILICON HITACHI	
D601	1SS133	SILICON ROHM	
D701	MTZ5.6JB	ZENER ROHM	

△ : SAFETY PARTS

CAPACITORS

ITEM	PART NUMBER	DESCRIPTION	AREA
C101	QFV81HJ-104	0.1MF 50V T.FILM	
C102	QFV81HJ-104	0.1MF 50V T.FILM	
C103	QETB1CM-338	3300MF 16V ELECTRO	
C104	QETB1CM-228	2200MF 16V ELECTRO	
C105	QETB1CM-227	220MF 16V ELECTRO	
C106	QETB1CM-227	220MF 16V ELECTRO	
C107	QETB1HM-225	2.2MF 50V ELECTRO	
C108	QETB1HM-225	2.2MF 50V ELECTRO	
C109	QETB0JM-227	220MF 6.3V ELECTRO	
C110	QETB1AM-476	47MF 10V ELECTRO	
C111	QETB1EM-107	100MF 25V ELECTRO	
C112	QCF21HP-223	0.022MF 50V CERAMIC	
C113	QETB1HM-107	100MF 50V ELECTRO	
C114	QETB1HM-475	4.7MF 50V ELECTRO	
C115	QETB1CM-227	220MF 16V ELECTRO	
C116	QETB1CM-226	22MF 16V ELECTRO	
C117	QETB1AM-107	100MF 10V ELECTRO	
C118	QETB1HM-225	2.2MF 50V ELECTRO	
C201	QER51HM-475	4.7MF 50V ELECTRO	
C202	QETB1HM-226	22MF 50V ELECTRO	
C204	QER50JM-107	100MF 6.3V ELECTRO	
C205	QCB81HK-331	330PF 50V CERAMIC	
C206	QETB1HM-475	4.7MF 50V ELECTRO	
C207	QCHB1EZ-223	0.022MF 25V CERAMIC	
C208	QER51CM-476	47MF 16V ELECTRO	
C321	QFN81HJ-122	1200PF 50V MYLAR	
C322	QFN81HJ-122	1200PF 50V MYLAR	
C323	QCS21HJ-221	220PF 50V CERAMIC	
C324	QCS21HJ-221	220PF 50V CERAMIC	
C325	QFN81HJ-392	3900PF 50V MYLAR	
C326	QFN81HJ-392	3900PF 50V MYLAR	
C327	QCS21HJ-121	120PF 50V CERAMIC	
C328	QCS21HJ-121	120PF 50V CERAMIC	
C329	QETB1EM-226Z	22MF 25V ELECTRO	
C330	QETB1EM-226Z	22MF 25V ELECTRO	
C331	QFN81HJ-562	5600PF 50V MYLAR	
C332	QFN81HJ-562	5600PF 50V MYLAR	
C333	QFN81HJ-472	4700PF 50V MYLAR	
C334	QFN81HJ-472	4700PF 50V MYLAR	
C341	QETB1HM-475	4.7MF 50V ELECTRO	
C342	QETB1HM-475	4.7MF 50V ELECTRO	
C343	QCB81HK-471	470PF 50V CERAMIC	
C344	QCB81HK-471	470PF 50V CERAMIC	
C345	QETB1CM-476	47MF 16V ELECTRO	
C346	QETB1CM-476	47MF 16V ELECTRO	
C347	QCS21HJ-100	10PF 50V CERAMIC	
C348	QCS21HJ-100	10PF 50V CERAMIC	
C349	QCZ0202-155	1.5MF 25V CERAMIC	
C350	QCS21HJ-270	27PF 50V CERAMIC	
C351	QCHB1EZ-223	0.022MF 25V CERAMIC	
C352	QCT30CH-120	12PF 50V CERAMIC	
C353	QCT30CH-3R9	3.9PF 50V CERAMIC	
C354	QCZ0202-155	1.5MF 25V CERAMIC	
C355	QETB0JM-227	220MF 6.3V ELECTRO	
C356	QCZ0202-155	1.5MF 25V CERAMIC	
C357	QETB0JM-227	220MF 6.3V ELECTRO	
C358	QCZ0202-155	1.5MF 25V CERAMIC	
C359	QETB0JM-227	220MF 6.3V ELECTRO	
C361	QCHB1EZ-223	0.022MF 25V CERAMIC	
C362	QCHB1EZ-223	0.022MF 25V CERAMIC	
C367	QCHB1EZ-223	0.022MF 25V CERAMIC	
C368	QCHB1EZ-223	0.022MF 25V CERAMIC	
C372	QETB1CM-476	47MF 16V ELECTRO	
C373	QETB1CM-476	47MF 16V ELECTRO	
C376	QETB1CM-476	47MF 16V ELECTRO	
C377	QETB1CM-476	47MF 16V ELECTRO	
C380	QCF21HP-103	0.01MF 50V CERAMIC	
C381	QCF21HP-223	0.022MF 50V CERAMIC	
C382	QCF21HP-103	0.01MF 50V CERAMIC	
C383	QCT30CH-3R9	3.9PF 50V CERAMIC	
C401	QCZ0202-155	1.5MF 25V CERAMIC	
C402	QFN81HJ-473	0.047MF 50V MYLAR	
C403	QCHB1EZ-223	0.022MF 25V CERAMIC	
C404	QFN81HJ-152	1500PF 50V MYLAR	
C405	QCF21HP-102	1000PF 50V CERAMIC	
C406	QCZ0202-155	1.5MF 25V CERAMIC	
C502	QCS21HJ-100	10PF 50V CERAMIC	
C503	QCS21HJ-100	10PF 50V CERAMIC	
C504	QETB1AM-476	47MF 10V ELECTRO	
C505	QCS21HJ-820	82PF 50V CERAMIC	
C506	QCS21HJ-101	100PF 50V CERAMIC	
C507	QCZ0202-155	1.5MF 25V CERAMIC	
C508	QCZ0202-155	1.5MF 25V CERAMIC	
C509	QCS21HJ-220	22PF 50V CERAMIC	
C510	QETB1AM-107	100MF 10V ELECTRO	
C511	QCHB1EZ-223	0.022MF 25V CERAMIC	
C601	QFN81HJ-182	1800PF 50V MYLAR	
C603	QFN81HJ-222	2200PF 50V MYLAR	
C604	QFN81HJ-222	2200PF 50V MYLAR	
C605	QCHB1EZ-223	0.022MF 25V CERAMIC	
C606	QFN81HJ-333	0.033MF 50V MYLAR	
C607	QFN81HJ-103	0.01MF 50V MYLAR	
C608	QCHB1EZ-223	0.022MF 25V CERAMIC	
C609	QFN81HJ-333	0.033MF 50V MYLAR	
C610	QCZ0202-155	1.5MF 25V CERAMIC	

△ : SAFETY PARTS

CAPACITORS

ITEM	PART NUMBER	DESCRIPTION	AREA
C611	QCHB1EZ-223	0.022MF 25V CERAMIC	
C612	QFV81HJ-104	0.1MF 50V T.FILM	
C613	QCS21HJ-471	470PF 50V CERAMIC	
C614	QFN81HJ-104	0.1MF 50V MYLAR	
C615	QFN81HJ-333	0.033MF 50V MYLAR	
C616	QFN81HJ-473	0.047MF 50V MYLAR	
C617	QFN81HJ-473	0.047MF 50V MYLAR	
C618	QFN81HJ-473	0.047MF 50V MYLAR	
C619	QETB1EM-106	10MF 25V ELECTRO	
C620	QFN81HJ-104	0.1MF 50V MYLAR	
C622	QCF21HP-223	0.022MF 50V CERAMIC	
C623	QFN81HJ-333	0.033MF 50V MYLAR	
C624	QETB1EM-106	10MF 25V ELECTRO	
C626	QFN81HJ-183	0.018MF 50V MYLAR	
C627	QFN81HJ-103	0.01MF 50V MYLAR	
C628	QETB1HM-475	4.7MF 50V ELECTRO	
C629	QFN81HJ-393	0.039MF 50V MYLAR	
C630	QCHB1EZ-223	0.022MF 25V CERAMIC	
C631	QCHB1EZ-223	0.022MF 25V CERAMIC	
C701	QCB81HK-101	100PF 50V CERAMIC	
C703	QCS21HJ-180	18PF 50V CERAMIC	
C710	QCS21HJ-101	100PF 50V CERAMIC	
C951	QCZ0202-155	1.5MF 25V CERAMIC	
C952	QCS21HJ-180	18PF 50V CERAMIC	
C955	QCF21HP-472	4700PF 50V CERAMIC	

RESISTORS

ITEM	PART NUMBER	DESCRIPTION	AREA
R103	QRD167J-104	100K 1/6W CARBON	
R104	QRD167J-104	100K 1/6W CARBON	
R105	QRD167J-222	2.2K 1/6W CARBON	
R106	QRD167J-222	2.2K 1/6W CARBON	
R107	QRD161J-221	220 1/6W CARBON	
R108	QRD161J-221	220 1/6W CARBON	
R109	QRD161J-221	220 1/6W CARBON	
R110	QRD161J-221	220 1/6W CARBON	
R112	QRZ0077-100	10 1/4W FUSIBLE	
R113	QRD167J-821	820 1/6W CARBON	
R114	QRD167J-202	2K 1/6W CARBON	
R115	QRD167J-472	4.7K 1/6W CARBON	
R116	QRZ0077-560	56 1/4W FUSIBLE	
R117	QRD167J-202	2K 1/6W CARBON	
R118	QRD167J-121	120 1/6W CARBON	
R119	QRD167J-152	1.5K 1/6W CARBON	
R120	QRD167J-152	1.5K 1/6W CARBON	
R121	QRD161J-221	220 1/6W CARBON	
R122	QRD161J-221	220 1/6W CARBON	
R123	QRD167J-822	8.2K 1/6W CARBON	
R124	QRD167J-683	68K 1/6W CARBON	
R125	QRD161J-221	220 1/6W CARBON	
R126	QRD167J-103	10K 1/6W CARBON	
R127	QRD167J-103	10K 1/6W CARBON	
R128	QRD167J-222	2.2K 1/6W CARBON	
R129	QRD161J-221	220 1/6W CARBON	
R130	QRD161J-221	220 1/6W CARBON	
R131	QRD167J-222	2.2K 1/6W CARBON	
R141	QRD167J-102	1K 1/6W CARBON	
R201	QRD167J-821	820 1/6W CARBON	
R202	QRD167J-103	10K 1/6W CARBON	
R203	QRD167J-105	1M 1/6W CARBON	
R204	QRD167J-472	4.7K 1/6W CARBON	
R205	QRD167J-103	10K 1/6W CARBON	
R206	QRD167J-473	47K 1/6W CARBON	
R207	QRD161J-221	220 1/6W CARBON	
R301	QRD167J-560	56 1/6W CARBON	
R302	QRD167J-330	33 1/6W CARBON	
R303	QRV144F-1802	18K 1/4W M.FILM	
R304	QRV144F-1802	18K 1/4W M.FILM	
R305	QRV144F-1802	18K 1/4W M.FILM	
R306	QRV144F-1802	18K 1/4W M.FILM	
R307	QRD167J-271	270 1/6W CARBON	
R308	QRD167J-182	1.8K 1/6W CARBON	
R309	QRD167J-560	56 1/6W CARBON	
R310	QRD167J-271	270 1/6W CARBON	
R311	QRV144F-1802	18K 1/4W M.FILM	
R312	QRV144F-1802	18K 1/4W M.FILM	
R313	QRV144F-1802	18K 1/4W M.FILM	
R314	QRV144F-1802	18K 1/4W M.FILM	
R315	QRD167J-182	1.8K 1/6W CARBON	
R316	QRD167J-271	270 1/6W CARBON	
R326	QRD167J-182	1.8K 1/6W CARBON	
R327	QRD167J-182	1.8K 1/6W CARBON	
R328	QRD167J-182	1.8K 1/6W CARBON	

△ : SAFETY PARTS

RESISTORS

ITEM	PART NUMBER	DESCRIPTION	AREA
R329	QRD167J-182	1.8K 1/6W CARBON	
R330	QRD167J-123	12K 1/6W CARBON	
R331	QRD167J-123	12K 1/6W CARBON	
R332	QRD167J-123	12K 1/6W CARBON	
R333	QRD167J-123	12K 1/6W CARBON	
R334	QRD167J-123	12K 1/6W CARBON	
R335	QRD167J-123	12K 1/6W CARBON	
R336	QRD167J-272	2.7K 1/6W CARBON	
R337	QRD167J-272	2.7K 1/6W CARBON	
R338	QRD167J-472	4.7K 1/6W CARBON	
R339	QRD167J-472	4.7K 1/6W CARBON	
R340	QRD167J-331	330 1/6W CARBON	
R341	QRD167J-331	330 1/6W CARBON	
R342	QRD167J-273	27K 1/6W CARBON	
R343	QRD167J-273	27K 1/6W CARBON	
R344	QRD167J-331	330 1/6W CARBON	
R345	QRD167J-331	330 1/6W CARBON	
R346	QRD167J-103	10K 1/6W CARBON	
R347	QRD167J-103	10K 1/6W CARBON	
R348	QRD167J-151	150 1/6W CARBON	
R349	QRD167J-151	150 1/6W CARBON	
R357	QRD167J-561	560 1/6W CARBON	
R358	QRD167J-561	560 1/6W CARBON	
R359	QRD167J-473	47K 1/6W CARBON	
R360	QRD167J-473	47K 1/6W CARBON	
R361	QRD167J-103	10K 1/6W CARBON	
R362	QRD167J-103	10K 1/6W CARBON	
R363	QRD167J-273	27K 1/6W CARBON	
R364	QRD167J-273	27K 1/6W CARBON	
R365	QRD167J-562	5.6K 1/6W CARBON	
R366	QRD167J-562	5.6K 1/6W CARBON	
R367	QRD167J-271	270 1/6W CARBON	
R368	QRD167J-271	270 1/6W CARBON	
R369	QRD167J-680	68 1/6W CARBON	
R371	QRD167J-390	39 1/6W CARBON	
R372	QRD167J-390	39 1/6W CARBON	
R373	QRD167J-271	270 1/6W CARBON	
R374	QRD167J-271	270 1/6W CARBON	
R375	QRD167J-680	68 1/6W CARBON	
R376	QRD167J-102	1K 1/6W CARBON	
R377	QRD167J-102	1K 1/6W CARBON	
R378	QRD167J-151	150 1/6W CARBON	
R379	QRD167J-151	150 1/6W CARBON	
R380	QRD167J-121	120 1/6W CARBON	
R381	QRD167J-102	1K 1/6W CARBON	
R382	QRD167J-155	1.5M 1/6W CARBON	
R383	QRD167J-560	56 1/6W CARBON	
R391	QRD167J-103	10K 1/6W CARBON	
R401	QRD167J-682	6.8K 1/6W CARBON	
R402	QRD167J-332	3.3K 1/6W CARBON	
R403	QRD167J-103	10K 1/6W CARBON	
R404	QRD167J-113	11K 1/6W CARBON	
R405	QRD167J-102	1K 1/6W CARBON	
R406	QRD167J-102	1K 1/6W CARBON	
R407	QRD167J-102	1K 1/6W CARBON	
R411	QRD167J-103	10K 1/6W CARBON	
R412	QRD167J-103	10K 1/6W CARBON	
R413	QRD167J-103	10K 1/6W CARBON	
R414	QRD167J-103	10K 1/6W CARBON	
R415	QRD167J-103	10K 1/6W CARBON	
R416	QRD167J-272	2.7K 1/6W CARBON	
R501	QRD167J-102	1K 1/6W CARBON	
R502	QRD167J-220	22 1/6W CARBON	
R503	QRD167J-220	22 1/6W CARBON	
R504	QRD167J-183	18K 1/6W CARBON	
R505	QRD167J-183	18K 1/6W CARBON	
R506	QRD167J-121	120 1/6W CARBON	
R507	QRD167J-103	10K 1/6W CARBON	
R508	QRD167J-332	3.3K 1/6W CARBON	
R509	QRD167J-822	8.2K 1/6W CARBON	
R510	QRD167J-113	11K 1/6W CARBON	
R511	QRD167J-104	100K 1/6W CARBON	
R512	QVPA601-203A	20K VARIABLE	
R513	QVPA601-203A	20K VARIABLE	
R514	QRD167J-103	10K 1/6W CARBON	
R515	QRD167J-910	91 1/6W CARBON	
R601	QRD167J-472	4.7K 1/6W CARBON	
R602	QRD167J-472	4.7K 1/6W CARBON	
R603	QVPA601-203A	20K VARIABLE	
R604	QVPA601-203A	20K VARIABLE	
R605	QRD167J-102	1K 1/6W CARBON	
R606	QRD167J-104	100K 1/6W CARBON	
R607	QRD167J-103	10K 1/6W CARBON	
R608	QRD167J-183	18K 1/6W CARBON	
R609	QRD167J-183	18K 1/6W CARBON	
R610	QRD167J-224	220K 1/6W CARBON	
R611	QRD167J-2R2	2.2 1/6W CARBON	
R612	QRD167J-164	160K 1/6W CARBON	
R613	QRD167J-134	130K 1/6W CARBON	
R614	QRD167J-2R2	2.2 1/6W CARBON	
R615	QRD167J-224	220K 1/6W CARBON	
R616	QRD167J-333	33K 1/6W CARBON	
R617	QRD167J-103	10K 1/6W CARBON	
R618	QRD167J-514	510K 1/6W CARBON	
R619	QRD167J-2R2	2.2 1/6W CARBON	

△ : SAFETY PARTS

RESISTORS

ITEM	PART NUMBER	DESCRIPTION	AREA
R620	QRD167J-153	15K 1/6W CARBON	
R621	QRD167J-393	39K 1/6W CARBON	
R622	QRD167J-124	120K 1/6W CARBON	
R623	QRD167J-472	4.7K 1/6W CARBON	
R626	QRD167J-203	20K 1/6W CARBON	
R627	QRD167J-273	27K 1/6W CARBON	
R628	QRD167J-752	7.5K 1/6W CARBON	
R629	QRD167J-752	7.5K 1/6W CARBON	
R630	QRD167J-333	33K 1/6W CARBON	
R631	QRD161J-221	220 1/6W CARBON	
R632	QRD167J-473	47K 1/6W CARBON	
R633	QRD167J-513	51K 1/6W CARBON	
R634	QRD167J-683	68K 1/6W CARBON	
R635	QRD167J-683	68K 1/6W CARBON	
R636	QRD167J-684	680K 1/6W CARBON	
R637	QRD161J-221	220 1/6W CARBON	
R638	QRD167J-823	82K 1/6W CARBON	
R701	QRD167J-471	470 1/6W CARBON	
RA201	QRB045J-473	47K 1/8W R.NETWORK	F
VR351	QVAB79C-E53CJ5	5K VARIABLE	

OTHERS

ITEM	PART NUMBER	DESCRIPTION	AREA
	EMV5109-005A	PLUG ASSY	
	EMV5109-006A	PLUG ASSY	
	E306805-010	SPACER	
	E306951-222SS	FL.HOLDER	
	E65396-003	EARTH PLATE	
	E70306-001	HEAT SINK	
	E75464-221SS	EARTH PLATE	
	SBSG3008CC	SCREW	
	SLH-56VCF07	L.E.D.	
	VYH7653-002	I.C.SOCKET	
J201	VMC0161-R31	MALE CONNECTOR(31PIN)	
J301	EMN00TV-219AJ2	2P PIN JACK	
J302	QMS6302-131	HEADPHONE JACK	
J401	VMC0163-031	FFC SOCKET(31PIN)	
J601	EMV7144-015	CONNECTOR(15PIN)	
J701	QMS3501-020	MINI JACK	
L301	EQL4004-1R0	INDUCTOR	
L701	EQL4004-1R0	INDUCTOR	
P101	QMCB001-E03H	AC INLET	A
P101	QMCB001-E02H	AC SOCKET	D
P101	QMCB001-E02H	AC SOCKET	F
X201	ECX0004-194KN	RESONATOR	
X301	ECX0169-344KL	RESONATOR	
CP101	ICP-N15	I.C. PROTECTOR	
FL201	ELU0001-114	FL TUBE	
FW201	VWS103-214K4K	FLAT WIRE ASSY	
FW202	VWS108-204K4K	FLAT WIRE	
FW203	VWS103-104K4K	FLAT WIRE ASSY	
FW203	VWS103-104K4K	FLAT WIRE ASSY	F
SW101	QSS1L22-E01	SLIDE SWITCH	F
SW201	QSQ1001-E01AJ4	PUSH SWITCH(1)	
SW202	QSQ1001-E01AJ4	PUSH SWITCH(2)	
SW203	QSQ1001-E01AJ4	PUSH SWITCH(3)	
SW204	QSQ1001-E01AJ4	PUSH SWITCH(4)	
SW205	QSQ1001-E01AJ4	PUSH SWITCH(5)	
SW206	QSQ1001-E01AJ4	PUSH SWITCH(6)	
SW207	QSQ1001-E01AJ4	PUSH SWITCH(7)	
SW208	QSQ1001-E01AJ4	PUSH SWITCH(8)	
SW209	QSQ1001-E01AJ4	PUSH SWITCH(9)	
SW210	QSQ1001-E01AJ4	PUSH SWITCH(10)	
SW211	QSQ1001-E01AJ4	PUSH SWITCH(OPEN/CLOSE)	
SW212	QSQ1001-E01AJ4	PUSH SWITCH(BACKWARD SCAN)	
SW213	QSQ1001-E01AJ4	PUSH SWITCH(FORWARD SCAN)	
SW214	QSQ1001-E01AJ4	PUSH SWITCH(BACKWARD SKIP)	
SW215	QSQ1001-E01AJ4	PUSH SWITCH(FORWARD SKIP)	
SW216	QSQ1001-E01AJ4	PUSH SWITCH(+10)	
SW217	QSQ1001-E01AJ4	PUSH SWITCH(PLAY/PAUSE)	
SW218	QSQ1001-E01AJ4	PUSH SWITCH(RANDOM)	
SW219	QSQ1001-E01AJ4	PUSH SWITCH(REPEAT ALL/1)	
SW220	QSQ1001-E01AJ4	PUSH SWITCH(POWER)	
SW221	QSQ1001-E01AJ4	PUSH SWITCH(DDRP/ONE TOUCH REC)	
SW222	QSQ1001-E01AJ4	PUSH SWITCH(SIDE A/B)	
SW223	QSQ1001-E01AJ4	PUSH SWITCH(EDITING)	
SW224	QSQ1001-E01AJ4	PUSH SWITCH(PROGRAM)	
SW225	QSQ1001-E01AJ4	PUSH SWITCH(CANCEL)	
SW226	QSQ1001-E01AJ4	PUSH SWITCH(STOP)	

△ : SAFETY PARTS

Accessories List

■ Parts List (XL-V161TN)

△	Part Number	Part Name	Q'ty	Description	Areas
	E30580-1918A	INSTRUCTION BOOK	1		J
	E30580-1918A	INSTRUCTION BOOK	1		A
	E30580-1919A	INSTRUCTION BOOK	1		C
	E30580-1919A	INSTRUCTION BOOK	1		U
	E30580-1919A	INSTRUCTION BOOK	1		UT
	BT-51001-1	LIMITED WARRANTY CARD	1		J
	BT-20025K	WARRANTY CARD	1		C
	BT-20122	WARRANTY CARD	1		A
	BT-20122-1	STICKER	1		A
	BT-20044G	SAFETY SHEET	1		J
	BT-51006-1	SAFETY REGISTRATION CARD	1		J
	BT-20071A	SERVICE CENTER LIST	1		C
△	QMP1360-183J3	POWER CORD	1		J
△	QMP1360-183J3	POWER CORD	1		C
△	QMP25D0-183	POWER CORD	1		A
△	QMP7530-183	POWER CORD	1		U
	QMP7530-183	POWER CORD	1		UT
	EWP302-011	SIGNAL CORD	1		
	EWP805-001	SIGNAL CORD	1		
	E35497-022	CAUTION SHEET	1	220V	U
	E35497-022	CAUTION SHEET	1	220V	UT
△	V04062-001	AC PLUG	1		U
△	V04062-001	AC PLUG	1		UT
	QPGA010-03003	ENVELOPE	1		A
	E300196-010	ENVELOPE	1		A
	E300196-010	ENVELOPE	1		C
	E300196-010B	ENVELOPE	1		J
	E300196-010	ENVELOPE	1		U
	E300196-010	ENVELOPE	1		UT

△ SAFETY PARTS

The Marks for Designated Areas

J the U.S.A.

A Australia

C Canada

UT Taiwan

U Universal Type

No mark indicates all areas.

■ Parts List (XL-V162BK)

⚠	Part Number	Part Name	Q'ty	Description	Areas
	E30580-1918A	INSTRUCTION BOOK	1		A
	E30580-1919A	INSTRUCTION BOOK	1		U
	E30580-1919A	INSTRUCTION BOOK	1		UT
	BT-20122	WARRANTY CARD	1		A
	BT-20122-1	STICKER	1		A
⚠	QMP25D0-183	POWER CORD	1		A
⚠	QMP7530-183	POWER CORD	1		U
⚠	QMP7530-183	POWER CORD	1		UT
	EWP302-011	SIGNAL CORD	1		
	EWP805-001	SIGNAL CORD	1		
	E35497-022	CAUTION SHEET	1	220V	U
	E35497-022	CAUTION SHEET	1	220V	UT
⚠	V04062-001	AC PLUG	1		U
⚠	V04062-001	AC PLUG	1		UT
	QPGA010-03003	ENVELOPE	1		A
	E300196-010	ENVELOPE	1		A
	E300196-010	ENVELOPE	1		U
	E300196-010	ENVELOPE	1		UT

The Marks for Designated Areas

A Australia UT Taiwan
U Universal Type No mark indicates all area.

Packing Materials and Part Numbers

■ XL-V161TN

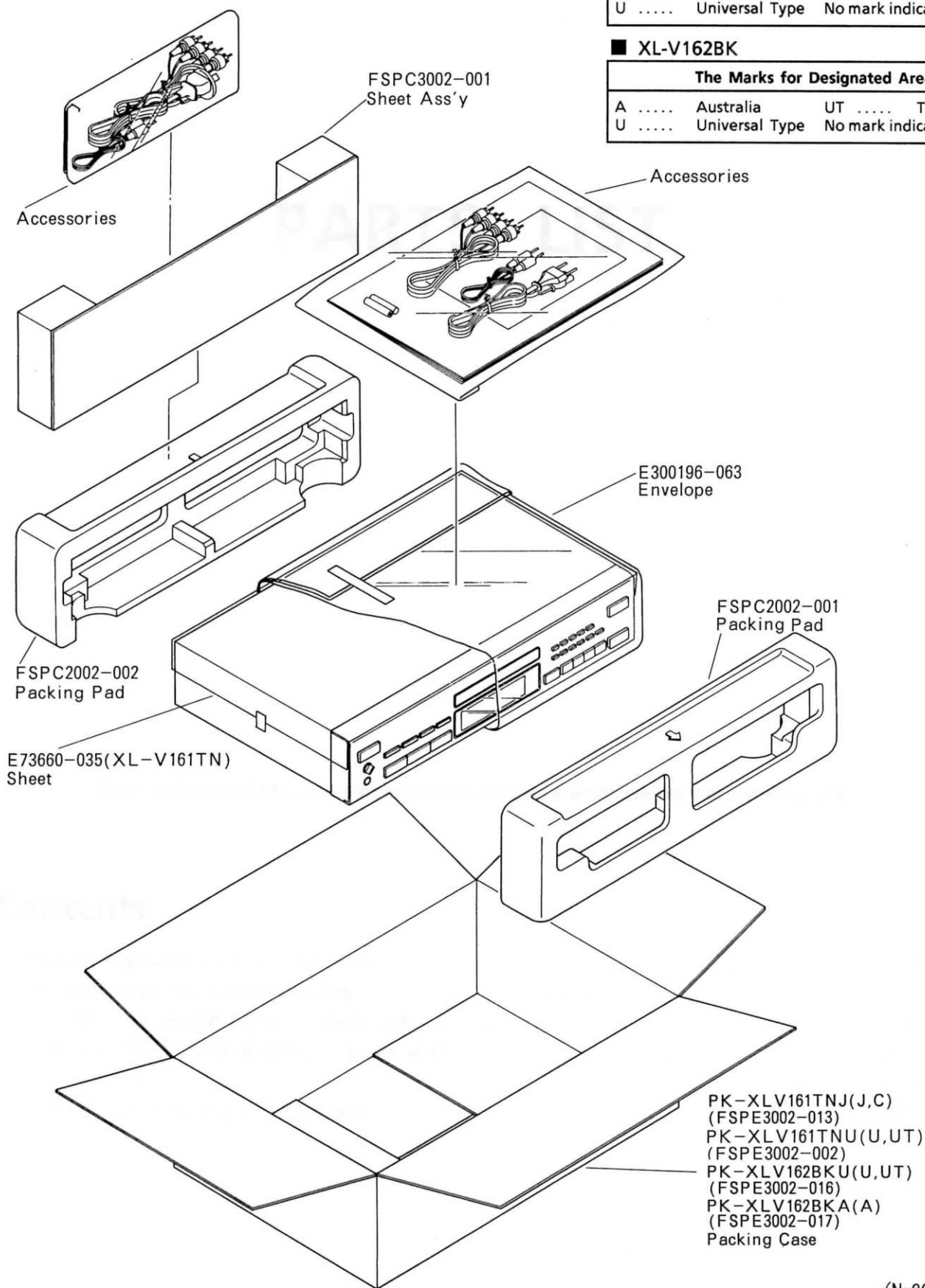
The Marks for Designated Areas

J	the U.S.A.	C	Canada
A	Australia	UT	Taiwan
U	Universal Type	No mark indicates all areas.	

■ XL-V162BK

The Marks for Designated Areas

A	Australia	UT	Taiwan
U	Universal Type	No mark indicates all areas.	



MEMO

XL-V161TN

The Marks for Designated Areas

1	United States
2	Canada
3	Japan
4	South Korea
5	China
6	India
7	Indonesia
8	Malaysia
9	Philippines
10	Singapore
11	Taiwan
12	Thailand
13	Vietnam
14	Other Countries

XL-V162BK

The Marks for Designated Areas

1	United States
2	Canada
3	Japan
4	South Korea
5	China
6	India
7	Indonesia
8	Malaysia
9	Philippines
10	Singapore
11	Taiwan
12	Thailand
13	Vietnam
14	Other Countries

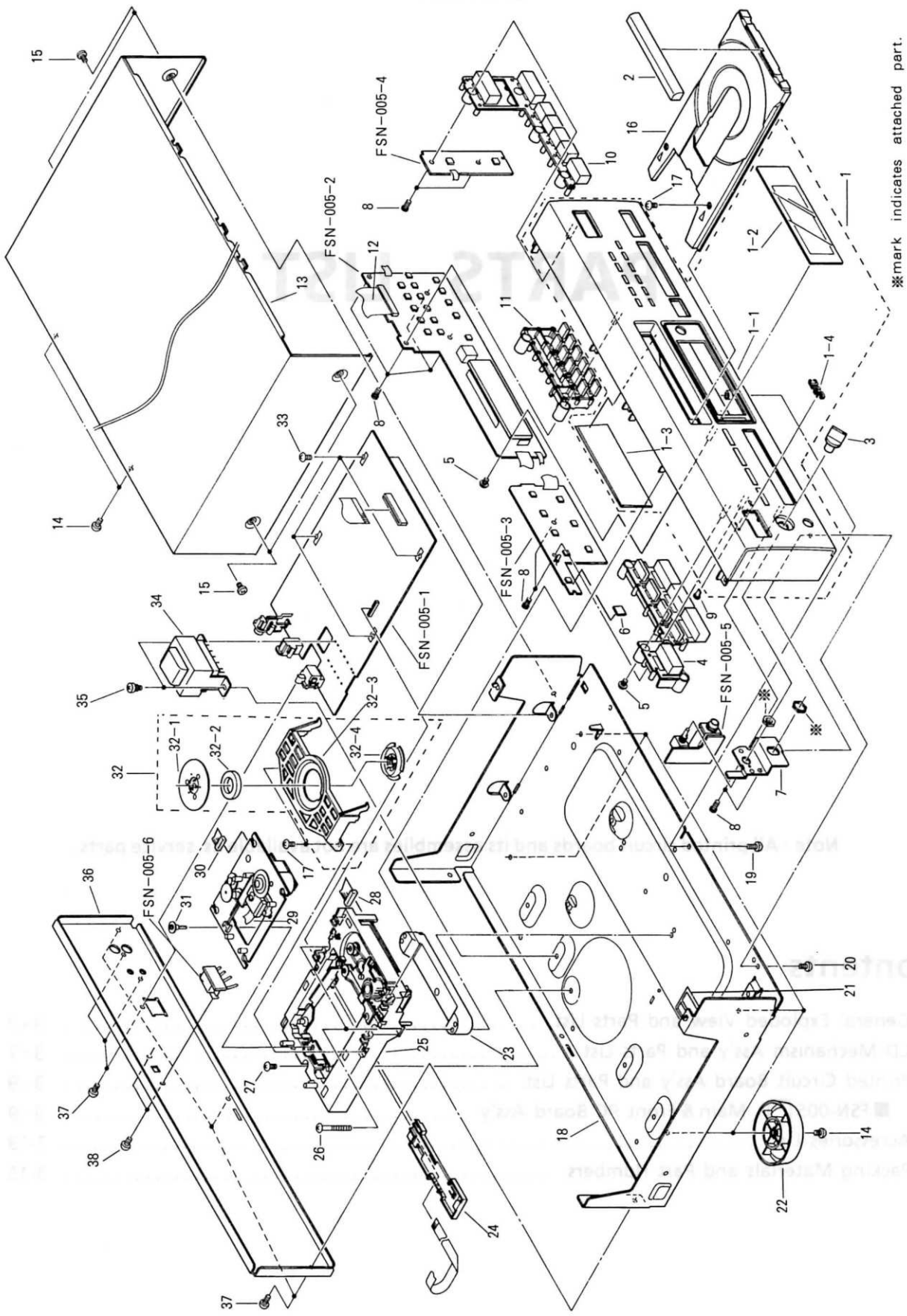
PARTS LIST

Note : All printed circuit boards and its assemblies are not available as service parts.

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General Exploded View and Parts List



■ Parts List (XL-V261TN)

△	Item	Part Number	Part Name	Q'ty	Description	Area
	1	EFP-XLV261TNJ (S	FRONT PANEL ASSY	1		
	1-1	FSJC1002-003	FRONT PANEL	1		
	1-2	FSYH3002-007	WINDOW SCREEN	1		
	1-3	FSYH4003-001	FL SCREEN	1		
	1-4	VJD5429-001	JVC MARK	1		
	2	FSJC3002-003	FITTING	1		
	3	E74179-007	OPERATION KNOB	1		
	4	FSXP2002-001	POWER BUTTON	1		
	5	FSYH4019-001	SPECIAL SCREW	2		
	6	VYSA1R4-107	FELT SPACER	1		
	7	FSKL4002-001	HEADPHONE BRACKET	1		
	8	SDSF2608Z	SCREW	10		
	9	FSJD4001-001	POWER INDICATOR	1		
	10	FSXP2003-001	PUSH BUTTON	1		
	11	FSXP2004-001	PUSH BUTTON	1		
	12	EWR631G-10TTJ2	FLAT WIRE	1		
	13	E206906-002SS	METAL COVER	1		
	14	SBST3008M	SCREW	6		
	15	E406308-001	SPECIAL SCREW	4		
	16	E102358-331SS	CD TRAY	1		
	17	SBSF3008M	SCREW	3		
	18	E102355-003SS	CHASSIS BASE	1		
	19	SDSF3008M	SCREW	1		
	20	SBSG3008M	SCREW	1		
	21	E406507-001	CAUTION LABEL	1		A
		E406507-001	CAUTION LABEL	1		C
		E406507-001	CAUTION LABEL	1		U
		E406507-001	CAUTION LABEL	1		UT
	22	FSYH4001-00A	FOOT ASSY	4		
	23	E307158-003SS	STAND	1		
	24	E308181-221SS	FFC HOLDER	1		
	25	-----	CD MECHANISM UNIT ASSY	1	SEE PAGE 3-7	
	26	SBST3025Z	SCREW	2		
	27	SBST3008Z	SCREW	1		
	28	EWS255-B101J1	SOCKET WIRE	1	5PIN	
	29	EWpz02-001	FFC CABLE	1		
	30	EWS256-B102J1	SOCKET WIRE	1	6PIN	
	31	E406293-002	SPECIAL SCREW	1		
	32	E306837-005	CLAMPER ASSY	1		
	32-1	E306836-003	YOKE PLATE	1		
	32-2	E74897-002	MAGNET	1		
	32-3	E26756-002	CLAMPER BASE	1		
	32-4	E306835-001	CD CLAMPER	1		
	33	SBSG3008CC	SCREW	4		
△	34	ETP1000-70JAJ	POWER TRANSFORMER	1		J
△		ETP1000-70JAJ	POWER TRANSFORMER	1		C
△		ETP1000-70EAJ	POWER TRANSFORMER	1		A
△		ETP1000-70LAJ	POWER TRANSFORMER	1		U
△		ETP1000-70LAJ	POWER TRANSFORMER	1		UT
	35	E65389-002	SPECIAL SCREW	2		
	36	E206904-052	REAR PANEL	1		J
		E206904-055	REAR PANEL	1		C
		E206904-055	REAR PANEL	1		A
		E206904-059	REAR PANEL	1		U
		E206904-059	REAR PANEL	1		UT

Item	Part Number	Part Name	Q'ty	Description	Area
37	FSYN1008-003	RATING LABEL	1		A
	FSYN1008-007Z	RATING LABEL	1		U
	FSYN1008-015	RATING LABEL	1		UT
	E73273-006	SPECIAL SCREW	6		
	SBSF2608M	SCREW	2		U
38	SBSF2608M	SCREW	2		UT
	E70891-001	LABEL	1		A
	E70891-001	LABEL	1		U
	E70891-001	LABEL	1		UT

⚠ SAFETY PARTS

The Marks for Designated Areas

J the U.S.A. C Canada A Australia
 UT Taiwan U Universal Type No mark indicates all areas.

■ Parts List (XL-V262BK)

⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
	1	EFV-XLV262BKU (S	FRONT PANEL ASSY	1		
	1-1	FSJC1002-004	FRONT PANEL	1		
	1-2	FSYH3002-008	WINDOW SCREEN	1		
	1-3	not use	FL SCREEN	—		
	1-4	VJD5429-001	JVC MARK	1		
	2	FSJC3002-004	FITTING	1		
	3	E74179-001	OPERATION KNOB	1		
	4	FSXP2002-002	POWER BUTTON	1		
	5	FSYH4019-001	SPECIAL SCREW	2		
	6	VYSA1R4-107	FELT SPACER	1		
	7	FSKL4002-001	HEADPHONE BRACKET	1		
	8	SDSF2608Z	SCREW	10		
	9	FSJD4001-001	POWER INDICATOR	1		
	10	FSXP2003-002	PUSH BUTTON	1		
	11	FSXP2004-002	PUSH BUTTON	1		
	12	EWR631G-10TTJ2	FLAT WIRE	1		
	13	E206906-004SS	METAL COVER	1		
	14	SBST3008M	SCREW	6		
	15	E406308-001	SPECIAL SCREW	4		
	16	E102358-332SS	CD TRAY	1		
	17	SBSF3008M	SCREW	3		
	18	E102355-003SS	CHASSIS BASE	1		
	19	SDSF3008M	SCREW	1		
	20	SBSG3008M	SCREW	1		
	21	E406507-001	CAUTION LABEL	1		A
		E406507-001	CAUTION LABEL	1		U
		E406507-001	CAUTION LABEL	1		UT
	22	FSYH4001-008	FOOT ASSY	4		
	23	E307158-003SS	STAND	1		
	24	E308181-221SS	FFC HOLDER	1		
	25	— — — — —	CD MECHANISM UNIT ASSY	1	SEE PAGE 3-7	
	26	SBST3025Z	SCREW	2		
	27	SBST3008Z	SCREW	1		
	28	EWS255-B101J1	SOCKET WIRE	1	5PIN	
	29	EWpz02-001	FFC CABLE	1		
	30	EWS256-B102J1	SOCKET WIRE	1	6PIN	
	31	E406293-002	SPECIAL SCREW	1		
	32	E306837-005	CLAMPER ASSY	1		
	32-1	E306836-003	YOKE PLATE	1		
	32-2	E74897-002	MAGNET	1		
	32-3	E26756-002	CLAMPER BASE	1		
	32-4	E306835-001	CD CLAMPER	1		
	33	SBSG3008CC	SCREW	4		
⚠	34	ETP1000-70EAJ	POWER TRANSFORMER	1		A
⚠		ETP1000-70LAJ	POWER TRANSFORMER	1		U
⚠		ETP1000-70LAJ	POWER TRANSFORMER	1		UT
	35	E65389-002	SPECIAL SCREW	2		
	36	E206904-056	REAR PANEL	1		A
		E206904-060	REAR PANEL	1		U
		E206904-060	REAR PANEL	1		UT
	—	FSYN1009-007Z	RATING LABEL	1		U
		FSYN1009-015	RATING LABEL	1		UT
	37	E73273-006	SPECIAL SCREW	6		
	38	SBSF2608M	SCREW	2		U
		SBSF2608M	SCREW	2		UT

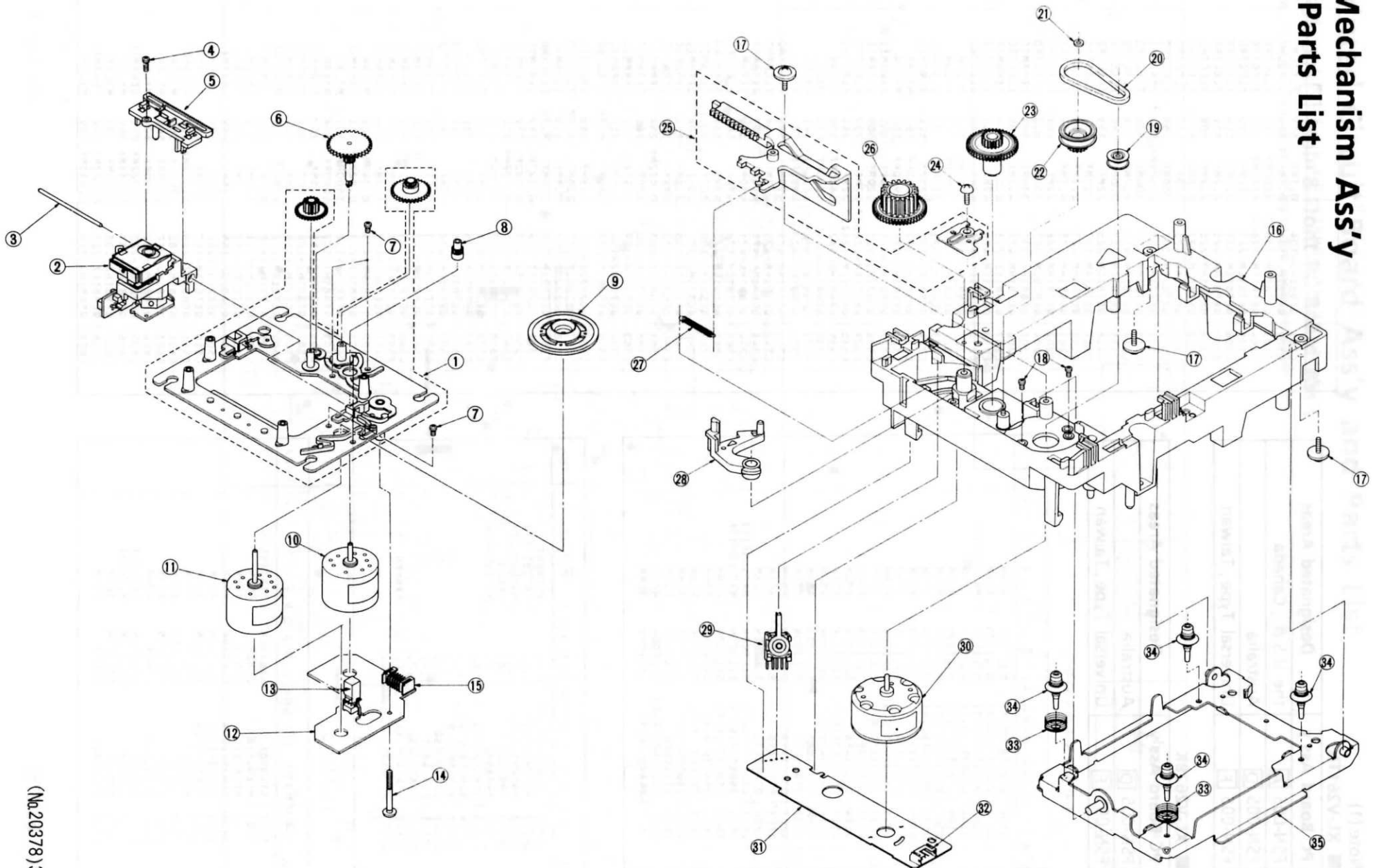
Item	Part Number	Part Name	Q'ty	Description	Areas
—	E70891-001	LABEL	1		A
	E70891-001	LABEL	1		U
	E70891-001	LABEL	1		UT

SAFETY PARTS

The Marks for Designated Area

A Austarli
 U Universal
 UT Taiwan
No mark indicates all areas.

CD Mechanism Ass'y and Parts List



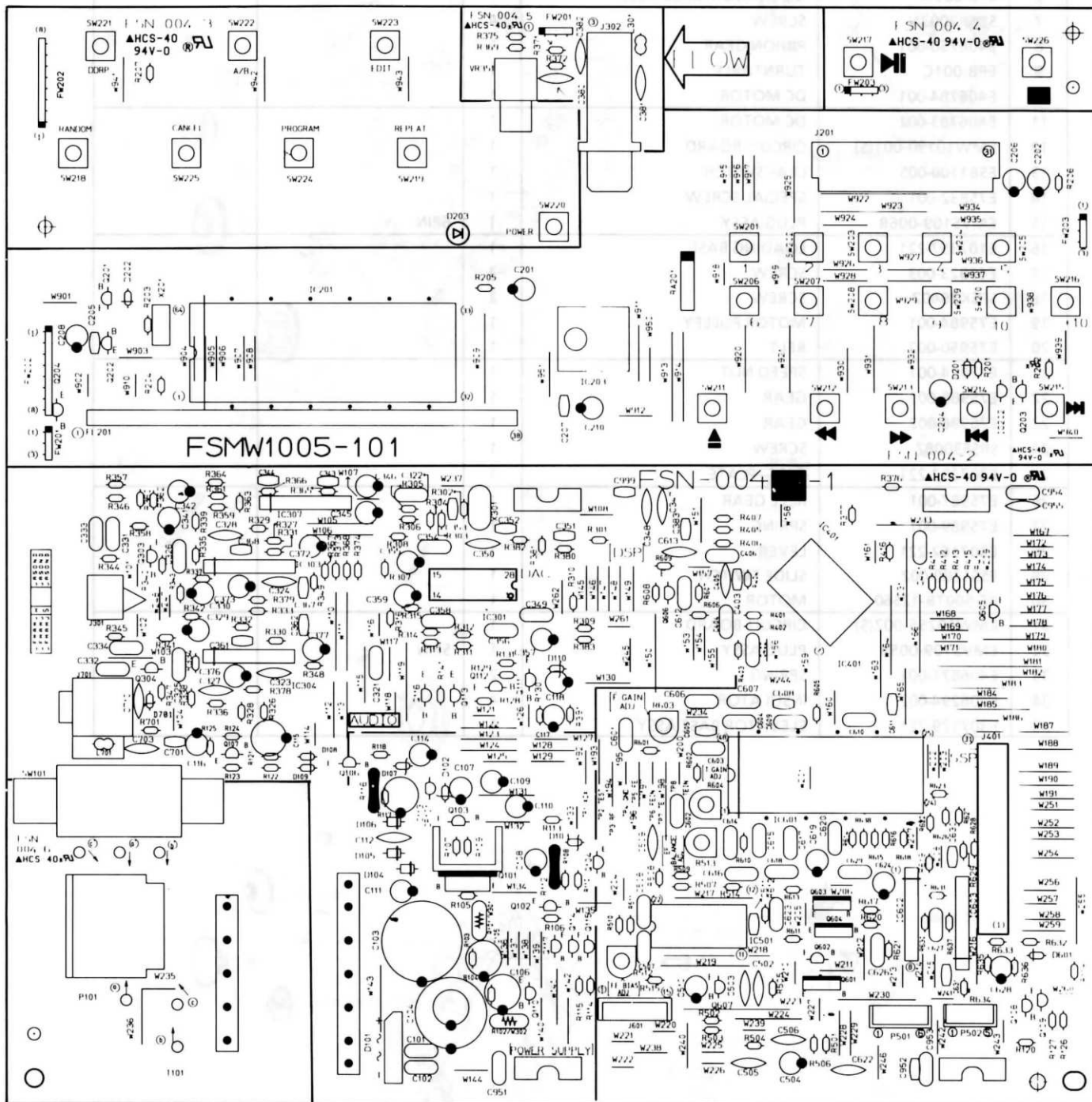
■ Parts List (CD Mechanism Ass'y)

Item	Part Number	Part Name	Q'ty	Description	Area
1	EPB-002A	MECHANISM BASE ASSY	1		
2	OPTIMA-6S	PICK UP ASS'Y	1		
3	E406777-001	SHAFT	1		
4	SDSF2006Z	SCREW	1		
5	E307746-001	CD RACK	1		
6	EPB-003A	MECHANISM BASE ASSY	1		
7	SDSP2003N	SCREW	4		
8	E406750-001	PINION GEAR	1		
9	EPB-001C	TURNTABLE	1		
10	E406784-001	DC MOTOR	1		
11	E406783-001	DC MOTOR	1		
12	EMW10190-001(S)	CIRCUIT BOARD	1		
13	ESB1100-005	LEAF SWITCH	1		
14	E75832-001	SPECIAL SCREW	1		
15	EMV5109-006B	PLUG ASSY	1	6PIN	
16	E102357-221	LOADING BASE	1		
17	E65923-003	SCREW	3		
18	SPSK2640Z	SCREW	2		
19	E75984-001	MOTOR PULLEY	1		
20	E75950-002	BELT	1		
21	E72024-001	SPEED NUT	1		
22	E75985-001	GEAR	1		
23	E75986-002	GEAR	1		
24	SBSF3008Z	SCREW	1		
25	E307252-221	CAM - PLATE	1		
26	E75987-001	REEL GEAR	1		
27	E75989-001	SPRING	1		
28	E307162-221	LEVER	1		
29	ESS1200-002	SLIDE SWITCH	1		
30	RF-500TB-12560	MOTOR	1		
31	EMW10255-002(S)	CIRCUIT BOARD	1		
32	EMV5109-005B	PLUG ASSY	1	5PIN	
33	E406871-001	SPRING	2		
34	E406294-002	INSULATOR	4		
35	E307179-221	ELEVATOR BASE ASSY	1		

Printed Circuit Board Ass'y and Parts List

■ FSN-005 ☐ Main & Front PC Board Ass'y

Note : FSN-004 ☐ varies according to the areas employed. See note (1) when placing an order.



Note (1)

■ XL-V261TN

PC Board Ass'y	Designated Areas
FSN-005 A	the U.S.A. , Canada
FSN-005 D	Australia
FSN-005 F	Universal Type , Taiwan

■ XL-V262BK

PC Board Ass'y	Designated Areas
FSN-005 D	Australia
FSN-005 F	Universal Type , Taiwan

TRANSISTORS

ITEM	PART NUMBER	DESCRIPTION	AREA
Q101	2SB1187(E,F)	SILICON ROHM	
Q102	2SC2060(Q,R)	SILICON ROHM	
Q103	2SD1302(S,T)	SILICON MATSUSHITA	
Q104	2SA933S(R,S)	SILICON ROHM	
Q106	2SA933S(R,S)	SILICON ROHM	
Q107	2SA933S(R,S)	SILICON ROHM	
Q108	2SD2144S(VW)	SILICON ROHM	
Q109	2SD2144S(VW)	SILICON ROHM	
Q110	DTA114YS	SILICON ROHM	
Q111	2SC1740S(R,S)	SILICON ROHM	
Q112	2SA934(Q,R)	SILICON ROHM	
Q113	DTC144ES	SILICON ROHM	
Q114	DTC144ES	SILICON ROHM	
Q115	2SC1740S(R,S)	SILICON ROHM	
Q116	2SC1740S(R,S)	SILICON ROHM	
Q117	DTC144ES	SILICON ROHM	
Q201	DTA114YS	SILICON ROHM	
Q202	DTC114YS	SILICON ROHM	
Q203	DTC114YS	SILICON ROHM	
Q204	DTA114YS	SILICON ROHM	
Q303	2SD1302(S,T)	SILICON MATSUSHITA	
Q304	2SD1302(S,T)	SILICON MATSUSHITA	
Q601	2SD2037(E,F)	SILICON ROHM	
Q602	2SA934(Q,R)	SILICON ROHM	
Q603	2SD2037(E,F)	SILICON ROHM	
Q604	2SB1357(E,F)	SILICON ROHM	
Q605	DTC144ES	SILICON ROHM	
Q606	2SC1740S(R,S)	SILICON ROHM	
Q607	2SA934(Q,R)	SILICON ROHM	

I. C. S.

ITEM	PART NUMBER	DESCRIPTION	AREA
IC201	HD404019RC09S	I.C. HITACHI	
IC202	MN1281(P,Q)	I.C. MATSUSHITA	A
IC202	MN1281(P,Q)	I.C. MATSUSHITA	F
IC203	SPS-420-1	I.C. SANYO	
IC301	MN35500	I.C. MATSUSHITA	
IC303	NJM4580L-S	I.C.	
IC304	NJM4580L-S	I.C.	
IC307	NJM4580L-S	I.C.	
IC401	CXD2500BQ	I.C.	
IC501	CXA1571S	I.C.	
IC601	CXA1372S	I.C.	
IC602	STA341M(A)	I.C. SANKEN	
IC603	NJM4580L-S	I.C.	

DIODES

ITEM	PART NUMBER	DESCRIPTION	AREA
D101	S1VB20F	SILICON SINDENGEN	
D102	MTZ5.6JB	ZENER ROHM	
D103	MTZ6.2JC	ZENER ROHM	
D104	1SR35-200A	SILICON ROHM	
D105	1SR35-200A	SILICON ROHM	
D106	1SR35-200A	SILICON ROHM	
D107	MTZ33JC	ZENER ROHM	
D108	1SS133	SILICON ROHM	
D109	1SS133	SILICON ROHM	
D110	MTZ5.6JB	ZENER ROHM	
D201	1SS119	SILICON HITACHI	
D202	1SS119	SILICON HITACHI	
D601	1SS133	SILICON ROHM	
D701	MTZ5.6JB	ZENER ROHM	

△ : SAFETY PARTS

CAPACITORS

ITEM	PART NUMBER	DESCRIPTION	AREA
C101	QFV81HJ-104	0.1MF 50V T.FILM	
C102	QFV81HJ-104	0.1MF 50V T.FILM	
C103	QETB1CM-338J7	3300MF 16V ELECTRO	
C104	QETB1CM-228J7	2200MF 16V ELECTRO	
C105	QETB1CM-227	220MF 16V ELECTRO	
C106	QETB1CM-227	220MF 16V ELECTRO	
C107	QETB1HM-225	2.2MF 50V ELECTRO	
C108	QETB1HM-225	2.2MF 50V ELECTRO	
C109	QETB0JM-227	220MF 6.3V ELECTRO	
C110	QETB1AM-476	47MF 10V ELECTRO	
C111	QETB1EM-107	100MF 25V ELECTRO	
C112	QCF21HP-223	0.022MF 50V CERAMIC	
C113	QETB1HM-107	100MF 50V ELECTRO	
C114	QETB1HM-475	4.7MF 50V ELECTRO	
C115	QETB1CM-227	220MF 16V ELECTRO	
C116	QETB1CM-226	22MF 16V ELECTRO	
C117	QETB1AM-107	100MF 10V ELECTRO	
C118	QETB1HM-225	2.2MF 50V ELECTRO	
C201	QER51HM-475	4.7MF 50V ELECTRO	
C202	QETB1HM-226	22MF 50V ELECTRO	
C204	QER50JM-107	100MF 6.3V ELECTRO	
C205	QCB81HK-331	330PF 50V CERAMIC	
C206	QETB1HM-475	4.7MF 50V ELECTRO	
C207	QCHB1EZ-223	0.022MF 25V CERAMIC	
C208	QER51CM-476	47MF 16V ELECTRO	
C210	QER51CM-476	47MF 16V ELECTRO	
C321	QFN81HJ-122	1200PF 50V MYLAR	
C322	QFN81HJ-122	1200PF 50V MYLAR	
C323	QCS21HJ-221	220PF 50V CERAMIC	
C324	QCS21HJ-221	220PF 50V CERAMIC	
C325	QFN81HJ-392	3900PF 50V MYLAR	
C326	QFN81HJ-392	3900PF 50V MYLAR	
C327	QCS21HJ-121	120PF 50V CERAMIC	
C328	QCS21HJ-121	120PF 50V CERAMIC	
C329	QETC1EM-226ZJ7	22MF 25V ELECTRO	
C330	QETC1EM-226ZJ7	22MF 25V ELECTRO	
C331	QFN81HJ-562	5600PF 50V MYLAR	
C332	QFN81HJ-562	5600PF 50V MYLAR	
C333	QFN81HJ-472	4700PF 50V MYLAR	
C334	QFN81HJ-472	4700PF 50V MYLAR	
C341	QETB1HM-475	4.7MF 50V ELECTRO	
C342	QETB1HM-475	4.7MF 50V ELECTRO	
C343	QCB81HK-471	470PF 50V CERAMIC	
C344	QCB81HK-471	470PF 50V CERAMIC	
C345	QETB1CM-476	47MF 16V ELECTRO	
C346	QETB1CM-476	47MF 16V ELECTRO	
C347	QCS21HJ-100	10PF 50V CERAMIC	
C348	QCS21HJ-100	10PF 50V CERAMIC	
C349	QCZ0202-155	1.5MF 25V CERAMIC	
C350	QCS21HJ-270	27PF 50V CERAMIC	
C351	QCHB1EZ-223	0.022MF 25V CERAMIC	
C352	QCT30CH-120	12PF 50V CERAMIC	
C353	QCT30CH-3R9	3.9PF 50V CERAMIC	
C354	QCZ0202-155	1.5MF 25V CERAMIC	
C355	QETB0JM-227	220MF 6.3V ELECTRO	
C356	QCZ0202-155	1.5MF 25V CERAMIC	
C357	QETB0JM-227	220MF 6.3V ELECTRO	
C358	QCZ0202-155	1.5MF 25V CERAMIC	
C359	QETB0JM-227	220MF 6.3V ELECTRO	
C361	QCHB1EZ-223	0.022MF 25V CERAMIC	
C362	QCHB1EZ-223	0.022MF 25V CERAMIC	
C367	QCHB1EZ-223	0.022MF 25V CERAMIC	
C368	QCHB1EZ-223	0.022MF 25V CERAMIC	
C372	QETB1CM-476	47MF 16V ELECTRO	
C373	QETB1CM-476	47MF 16V ELECTRO	
C376	QETB1CM-476	47MF 16V ELECTRO	
C377	QETB1CM-476	47MF 16V ELECTRO	
C380	QCF21HP-103	0.01MF 50V CERAMIC	
C381	QCF21HP-223	0.022MF 50V CERAMIC	
C382	QCF21HP-103	0.01MF 50V CERAMIC	
C383	QCT30CH-3R9	3.9PF 50V CERAMIC	
C401	QCZ0202-155	1.5MF 25V CERAMIC	
C402	QFN81HJ-473	0.047MF 50V MYLAR	
C403	QCHB1EZ-223	0.022MF 25V CERAMIC	
C404	QFN81HJ-152	1500PF 50V MYLAR	
C405	QFN81HJ-102	1000PF 50V MYLAR	
C406	QCZ0202-155	1.5MF 25V CERAMIC	
C502	QCS21HJ-100	10PF 50V CERAMIC	
C503	QCS21HJ-100	10PF 50V CERAMIC	
C504	QETB1AM-476	47MF 10V ELECTRO	
C505	QCS21HJ-820	82PF 50V CERAMIC	
C506	QCS21HJ-101	100PF 50V CERAMIC	
C507	QCZ0202-155	1.5MF 25V CERAMIC	
C508	QCZ0202-155	1.5MF 25V CERAMIC	
C509	QCS21HJ-220	22PF 50V CERAMIC	
C510	QETB1AM-107	100MF 10V ELECTRO	
C511	QCHB1EZ-223	0.022MF 25V CERAMIC	
C601	QFN81HJ-182	1800PF 50V MYLAR	
C603	QFN81HJ-222	2200PF 50V MYLAR	
C604	QFN81HJ-222	2200PF 50V MYLAR	
C605	QCHB1EZ-223	0.022MF 25V CERAMIC	
C606	QFN81HJ-333	0.033MF 50V MYLAR	
C607	QFN81HJ-103	0.01MF 50V MYLAR	
C608	QCHB1EZ-223	0.022MF 25V CERAMIC	
C609	QFN81HJ-333	0.033MF 50V MYLAR	

△ : SAFETY PARTS

CAPACITORS

ITEM	PART NUMBER	DESCRIPTION	AREA
C610	QCZ0202-155	1.5MF 25V CERAMIC	
C611	QCHB1EZ-223	0.022MF 25V CERAMIC	
C612	QFVB1HJ-104	0.1MF 50V T.FILM	
C613	QCS21HJ-471	470PF 50V CERAMIC	
C614	QFN81HJ-104	0.1MF 50V MYLAR	
C615	QFN81HJ-333	0.033MF 50V MYLAR	
C616	QFN81HJ-473	0.047MF 50V MYLAR	
C617	QFN81HJ-473	0.047MF 50V MYLAR	
C618	QFN81HJ-473	0.047MF 50V MYLAR	
C619	QETB1EM-106	10MF 25V ELECTRO	
C620	QFN81HJ-104	0.1MF 50V MYLAR	
C622	QCF21HP-223	0.022MF 50V CERAMIC	
C623	QFN81HJ-333	0.033MF 50V MYLAR	
C624	QETB1EM-106	10MF 25V ELECTRO	
C626	QFN81HJ-183	0.018MF 50V MYLAR	
C627	QFN81HJ-103	0.01MF 50V MYLAR	
C628	QETB1HM-475	4.7MF 50V ELECTRO	
C629	QFN81HJ-393	0.039MF 50V MYLAR	
C630	QCHB1EZ-223	0.022MF 25V CERAMIC	
C631	QCHB1EZ-223	0.022MF 25V CERAMIC	
C701	QCB81HK-101	100PF 50V CERAMIC	
C703	QCS21HJ-180	18PF 50V CERAMIC	
C710	QCS21HJ-101	100PF 50V CERAMIC	
C951	QCZ0202-155	1.5MF 25V CERAMIC	
C952	QCS21HJ-180	18PF 50V CERAMIC	
C955	QCF21HP-472	4700PF 50V CERAMIC	

RESISTORS

ITEM	PART NUMBER	DESCRIPTION	AREA
R103	QRD167J-104	100K 1/6W CARBON	
R104	QRD167J-104	100K 1/6W CARBON	
R105	QRD167J-222	2.2K 1/6W CARBON	
R106	QRD167J-222	2.2K 1/6W CARBON	
R107	QRD161J-221	220 1/6W CARBON	
R108	QRD161J-221	220 1/6W CARBON	
R109	QRD161J-221	220 1/6W CARBON	
R110	QRD161J-221	220 1/6W CARBON	
R112	QRZ0077-100	10 1/4W FUSIBLE	
R113	QRD167J-821	820 1/6W CARBON	
R114	QRD167J-202	2K 1/6W CARBON	
R115	QRD167J-472	4.7K 1/6W CARBON	
R116	QRZ0077-560	56 1/4W FUSIBLE	
R117	QRD167J-202	2K 1/6W CARBON	
R118	QRD167J-121	120 1/6W CARBON	
R119	QRD167J-152	1.5K 1/6W CARBON	
R120	QRD167J-152	1.5K 1/6W CARBON	
R121	QRD161J-221	220 1/6W CARBON	
R122	QRD161J-221	220 1/6W CARBON	
R123	QRD167J-822	8.2K 1/6W CARBON	
R124	QRD167J-683	68K 1/6W CARBON	
R125	QRD161J-221	220 1/6W CARBON	
R126	QRD167J-103	10K 1/6W CARBON	
R127	QRD167J-103	10K 1/6W CARBON	
R128	QRD167J-222	2.2K 1/6W CARBON	
R129	QRD161J-221	220 1/6W CARBON	
R130	QRD161J-221	220 1/6W CARBON	
R131	QRD167J-222	2.2K 1/6W CARBON	
R141	QRD167J-102	1K 1/6W CARBON	
R201	QRD167J-821	820 1/6W CARBON	
R202	QRD167J-103	10K 1/6W CARBON	
R203	QRD167J-105	1M 1/6W CARBON	
R204	QRD167J-472	4.7K 1/6W CARBON	
R205	QRD167J-103	10K 1/6W CARBON	
R206	QRD167J-473	47K 1/6W CARBON	
R207	QRD161J-221	220 1/6W CARBON	
R301	QRD167J-560	56 1/6W CARBON	
R302	QRD167J-330	33 1/6W CARBON	
R303	QRV144F-1802	18K 1/4W M.FILM	
R304	QRV144F-1802	18K 1/4W M.FILM	
R305	QRV144F-1802	18K 1/4W M.FILM	
R306	QRV144F-1802	18K 1/4W M.FILM	
R307	QRD167J-271	270 1/6W CARBON	
R308	QRD167J-182	1.8K 1/6W CARBON	
R309	QRD167J-560	56 1/6W CARBON	
R310	QRD167J-271	270 1/6W CARBON	
R311	QRV144F-1802	18K 1/4W M.FILM	
R312	QRV144F-1802	18K 1/4W M.FILM	
R313	QRV144F-1802	18K 1/4W M.FILM	
R314	QRV144F-1802	18K 1/4W M.FILM	
R315	QRD167J-182	1.8K 1/6W CARBON	
R316	QRD167J-271	270 1/6W CARBON	
R326	QRD167J-182	1.8K 1/6W CARBON	
R327	QRD167J-182	1.8K 1/6W CARBON	
R328	QRD167J-182	1.8K 1/6W CARBON	

△ : SAFETY PARTS

RESISTORS

ITEM	PART NUMBER	DESCRIPTION	AREA
R329	QRD167J-182	1.8K 1/6W CARBON	
R330	QRD167J-123	12K 1/6W CARBON	
R331	QRD167J-123	12K 1/6W CARBON	
R332	QRD167J-123	12K 1/6W CARBON	
R333	QRD167J-123	12K 1/6W CARBON	
R334	QRD167J-123	12K 1/6W CARBON	
R335	QRD167J-123	12K 1/6W CARBON	
R336	QRD167J-272	2.7K 1/6W CARBON	
R337	QRD167J-272	2.7K 1/6W CARBON	
R338	QRD167J-472	4.7K 1/6W CARBON	
R339	QRD167J-472	4.7K 1/6W CARBON	
R340	QRD167J-331	330 1/6W CARBON	
R341	QRD167J-331	330 1/6W CARBON	
R342	QRD167J-273	27K 1/6W CARBON	
R343	QRD167J-273	27K 1/6W CARBON	
R344	QRD167J-331	330 1/6W CARBON	
R345	QRD167J-331	330 1/6W CARBON	
R346	QRD167J-103	10K 1/6W CARBON	
R347	QRD167J-103	10K 1/6W CARBON	
R348	QRD167J-151	150 1/6W CARBON	
R349	QRD167J-151	150 1/6W CARBON	
R357	QRD167J-561	560 1/6W CARBON	
R358	QRD167J-561	560 1/6W CARBON	
R359	QRD167J-473	47K 1/6W CARBON	
R360	QRD167J-473	47K 1/6W CARBON	
R361	QRD167J-103	10K 1/6W CARBON	
R362	QRD167J-103	10K 1/6W CARBON	
R363	QRD167J-273	27K 1/6W CARBON	
R364	QRD167J-273	27K 1/6W CARBON	
R365	QRD167J-562	5.6K 1/6W CARBON	
R366	QRD167J-562	5.6K 1/6W CARBON	
R367	QRD167J-271	270 1/6W CARBON	
R368	QRD167J-271	270 1/6W CARBON	
R369	QRD167J-680	68 1/6W CARBON	
R371	QRD167J-390	39 1/6W CARBON	
R372	QRD167J-390	39 1/6W CARBON	
R373	QRD167J-271	270 1/6W CARBON	
R374	QRD167J-271	270 1/6W CARBON	
R375	QRD167J-680	68 1/6W CARBON	
R376	QRD167J-102	1K 1/6W CARBON	
R377	QRD167J-102	1K 1/6W CARBON	
R378	QRD167J-151	150 1/6W CARBON	
R379	QRD167J-151	150 1/6W CARBON	
R380	QRD167J-121	120 1/6W CARBON	
R381	QRD167J-102	1K 1/6W CARBON	
R382	QRD167J-155	1.5M 1/6W CARBON	
R383	QRD167J-560	56 1/6W CARBON	
R391	QRD167J-103	10K 1/6W CARBON	
R401	QRD167J-682	6.8K 1/6W CARBON	
R402	QRD167J-332	3.3K 1/6W CARBON	
R403	QRD167J-103	10K 1/6W CARBON	
R404	QRD167J-113	11K 1/6W CARBON	
R405	QRD167J-102	1K 1/6W CARBON	
R406	QRD167J-102	1K 1/6W CARBON	
R407	QRD167J-102	1K 1/6W CARBON	
R411	QRD167J-103	10K 1/6W CARBON	
R412	QRD167J-103	10K 1/6W CARBON	
R413	QRD167J-103	10K 1/6W CARBON	
R414	QRD167J-103	10K 1/6W CARBON	
R415	QRD167J-103	10K 1/6W CARBON	
R416	QRD167J-272	2.7K 1/6W CARBON	
R501	QRD167J-102	1K 1/6W CARBON	
R502	QRD167J-220	22 1/6W CARBON	
R503	QRD167J-220	22 1/6W CARBON	
R504	QRD167J-183	18K 1/6W CARBON	
R505	QRD167J-183	18K 1/6W CARBON	
R506	QRD167J-121	120 1/6W CARBON	
R507	QRD167J-103	10K 1/6W CARBON	
R508	QRD167J-332	3.3K 1/6W CARBON	
R509	QRD167J-822	8.2K 1/6W CARBON	
R510	QRD167J-113	11K 1/6W CARBON	
R511	QRD167J-104	100K 1/6W CARBON	
R512	QVPA601-203A	20K VARIABLE	
R513	QVPA601-203A	20K VARIABLE	
R514	QRD167J-103	10K 1/6W CARBON	
R515	QRD167J-910	91 1/6W CARBON	
R601	QRD167J-472	4.7K 1/6W CARBON	
R602	QRD167J-472	4.7K 1/6W CARBON	
R603	QVPA601-203A	20K VARIABLE	
R604	QVPA601-203A	20K VARIABLE	
R605	QRD167J-102	1K 1/6W CARBON	
R606	QRD167J-104	100K 1/6W CARBON	
R607	QRD167J-103	10K 1/6W CARBON	
R608	QRD167J-183	18K 1/6W CARBON	
R609	QRD167J-183	18K 1/6W CARBON	
R610	QRD167J-224	220K 1/6W CARBON	
R611	QRD167J-2R2	2.2 1/6W CARBON	
R612	QRD167J-164	160K 1/6W CARBON	
R613	QRD167J-134	130K 1/6W CARBON	
R614	QRD167J-2R2	2.2 1/6W CARBON	
R615	QRD167J-224	220K 1/6W CARBON	
R616	QRD167J-333	33K 1/6W CARBON	
R617	QRD167J-103	10K 1/6W CARBON	
R618	QRD167J-514	510K 1/6W CARBON	
R619	QRD167J-2R2	2.2 1/6W CARBON	

△ : SAFETY PARTS

RESISTORS

ITEM	PART NUMBER	DESCRIPTION	AREA
R620	QRD167J-153	15K 1/6W CARBON	
R621	QRD167J-393	39K 1/6W CARBON	
R622	QRD167J-124	120K 1/6W CARBON	
R623	QRD167J-472	4.7K 1/6W CARBON	
R626	QRD167J-203	20K 1/6W CARBON	
R627	QRD167J-273	27K 1/6W CARBON	
R628	QRD167J-752	7.5K 1/6W CARBON	
R629	QRD167J-752	7.5K 1/6W CARBON	
R630	QRD167J-333	33K 1/6W CARBON	
R631	QRD167J-2R2	2.2 1/6W CARBON	
R632	QRD167J-473	47K 1/6W CARBON	
R633	QRD167J-513	51K 1/6W CARBON	
R634	QRD167J-683	68K 1/6W CARBON	
R635	QRD167J-683	68K 1/6W CARBON	
R636	QRD167J-684	680K 1/6W CARBON	
R637	QRD161J-221	220 1/6W CARBON	
R638	QRD167J-823	82K 1/6W CARBON	
R701	QRD167J-471	470 1/6W CARBON	
RA201	QRB045J-473	47K 1/8W R.NETWORK	A
RA201	QRB045J-473	47K 1/8W R.NETWORK	F
VR351	QVAB79C-E53CJ5	5K VARIABLE	

OTHERS

ITEM	PART NUMBER	DESCRIPTION	AREA
	EMV5109-005A	PLUG ASSY	
	EMV5109-006A	PLUG ASSY	
	E306805-010	SPACER	
	E306951-222SS	FL.HOLDER	
	E65396-003	EARTH PLATE	
	E70306-001	HEAT SINK	
	E75464-221SS	EARTH PLATE	
	SBSG3008CC	SCREW	
	SLH-56VCF07	L.E.D.	
	VMC0163-031	FFC SOCKET	
	VYH7653-002	I.C.SOCKET	
	QWE880-10RR	VINYL WIRE	F
	QWE882-10RR	VINYL WIRE	F
	QWE886-10RR	VINYL WIRE	F
J201	VMC0161-R31	MALE CONNECTOR(31PIN)	
J301	EMN00TV-219AJ2	2P PIN JACK	
J302	QMS6302-131	HEADPHONE JACK	
J601	EMV7144-015	CONNECTOR(15PIN)	
J701	QMS3501-020	MINI JACK	
L301	EQL4004-1R0	INDUCTOR	
L701	EQL4004-1R0	INDUCTOR	
P101	QMCB001-E03H	AC INLET	A
P101	QMCB001-E02H	AC SOCKET	D
P101	QMCB001-E02H	AC SOCKET	F
X201	ECX0004-194KN	RESONATOR	
X301	ECX0169-344KL	RESONATOR	
CP101	ICP-N15	I.C. PROTECTOR	
FL201	ELU0001-114	FL TUBE	
FW201	VWS103-214K4K	FLAT WIRE ASSY	
FW202	VWS108-204K4K	FLAT WIRE	
FW203	VWS103-104K4K	FLAT WIRE ASSY	A
FW203	VWS103-104K4K	FLAT WIRE ASSY	F
SW101	QSS1L22-E01	SLIDE SWITCH	F
SW201	QSQ1001-E01AJ4	PUSH SWITCH(1)	
SW202	QSQ1001-E01AJ4	PUSH SWITCH(2)	
SW203	QSQ1001-E01AJ4	PUSH SWITCH(3)	
SW204	QSQ1001-E01AJ4	PUSH SWITCH(4)	
SW205	QSQ1001-E01AJ4	PUSH SWITCH(5)	
SW206	QSQ1001-E01AJ4	PUSH SWITCH(6)	
SW207	QSQ1001-E01AJ4	PUSH SWITCH(7)	
SW208	QSQ1001-E01AJ4	PUSH SWITCH(8)	
SW209	QSQ1001-E01AJ4	PUSH SWITCH(9)	
SW210	QSQ1001-E01AJ4	PUSH SWITCH(10)	
SW211	QSQ1001-E01AJ4	PUSH SWITCH(OPEN/CLOSE)	
SW212	QSQ1001-E01AJ4	PUSH SWITCH(BACKWARD SCAN)	
SW213	QSQ1001-E01AJ4	PUSH SWITCH(FORWARD SCAN)	
SW214	QSQ1001-E01AJ4	PUSH SWITCH(BACKWARD SKIP)	
SW215	QSQ1001-E01AJ4	PUSH SWITCH(FORWARD SKIP)	
SW216	QSQ1001-E01AJ4	PUSH SWITCH(+10)	
SW217	QSQ1001-E01AJ4	PUSH SWITCH(PLAY/PAUSE)	
SW218	QSQ1001-E01AJ4	PUSH SWITCH(RANDOM)	
SW219	QSQ1001-E01AJ4	PUSH SWITCH(REPEAT ALL/1)	
SW220	QSQ1001-E01AJ4	PUSH SWITCH(POWER)	
SW221	QSQ1001-E01AJ4	PUSH SWITCH(DDR/ONE TOUCH REC)	
SW222	QSQ1001-E01AJ4	PUSH SWITCH(SIDE A/B)	
SW223	QSQ1001-E01AJ4	PUSH SWITCH(EDITING)	
SW224	QSQ1001-E01AJ4	PUSH SWITCH(PROGRAM)	
SW225	QSQ1001-E01AJ4	PUSH SWITCH(CANCEL)	
SW226	QSQ1001-E01AJ4	PUSH SWITCH(STOP)	

△ : SAFETY PARTS

Accessories List

■ Parts List (XL-V261TN)

⚠	Part Number	Part Name	Q'ty	Description	Areas
	E30580-1918A	INSTRUCTION BOOK	1		J
	E30580-1918A	INSTRUCTION BOOK	1		A
	E30580-1919A	INSTRUCTION BOOK	1		C
	E30580-1919A	INSTRUCTION BOOK	1		U
	E30580-1919A	INSTRUCTION BOOK	1		UT
	BT-51001-1	WARRANTY CARD	1		J
	BT-20025K	WARRANTY CARD	1		C
	BT-20122	WARRANTY CARD	1		A
	BT-20122-1	STICKER	1		A
	BT-20044G	SAFETY SHEET	1		J
	BT-51006-1	SAFETY REGISTRATION CARD	1		J
	BT-20071A	SERVICE CENTER LIST	1		C
⚠	QMP1360-183J3	POWER CORD	1		J
⚠	QMP1360-183J3	POWER CORD	1		C
⚠	QMP25D0-183	POWER CORD	1		A
⚠	QMP7530-183	POWER CORD	1		U
⚠	QMP7530-183	POWER CORD	1		UT
	EWP302-011	SIGNAL CORD	1		
	EWP805-001	SIGNAL CORD	1		
	E35497-022	CAUTION SHEET	1	220V	U
	E35497-022	CAUTION SHEET	1	220V	UT
⚠	V04062-001	AC PLUG	1		U
⚠	V04062-001	AC PLUG	1		UT
	RM-SX261U	REMOTE CONTROLLER	1		
	UM-4NV-2PSA	BATTERY	1		
	QPGA010-03003	ENVELOPE	1		A
	E300196-010	ENVELOPE	1		A
	E300196-010	ENVELOPE	1		C
	E300196-010B	ENVELOPE	1		J
	E300196-010	ENVELOPE	1		U

⚠ SAFETY PARTS

The Marks for Designated Areas

J the U.S.A.

A Australia

C Canada

UT Taiwan

UT Universal Type

No mark indicates all areas.

■ Parts List (XL-V262BK)

△	Part Number	Part Name	Q'ty	Description	Areas
	E30580-1918A	INSTRUCTION BOOK	1		A
	E30580-1919A	INSTRUCTION BOOK	1		U
	E30580-1919A	INSTRUCTION BOOK	1		UT
	BT-20122	WARRANTY CARD	1		A
	BT-20122-1	STICKER	1		A
△	QMP25D0-183	POWER CORD	1		A
△	QMP7530-183	POWER CORD	1		U
△	QMP7530-183	POWER CORD	1		UT
	EWP302-011	SIGNAL CORD	1		
	EWP805-001	SIGNAL CORD	1		
	E35497-022	CAUTION SHEET	1	220V	U
	E35497-022	CAUTION SHEET	1	220V	UT
△	V04062-001	AC PLUG	1		U
△	V04062-001	AC PLUG	1		UT
	RM-SX261U	REMOTE CONTROLLER	1		
	UM-4NV-2PSA	BATTERY	1		
	QPGA010-03003	ENVELOPE	1		A
	E300196-010	ENVELOPE	1		A
	E300196-010	ENVELOPE	1		U
	E300196-010	ENVELOPE	1		UT

△ SAFETY PARTS

The Marks for Designated Areas

A Australia UT Taiwan
U Universal Type No mark indicates all areas.

Packing Materials and Part Numbers

■ XL-V261TN

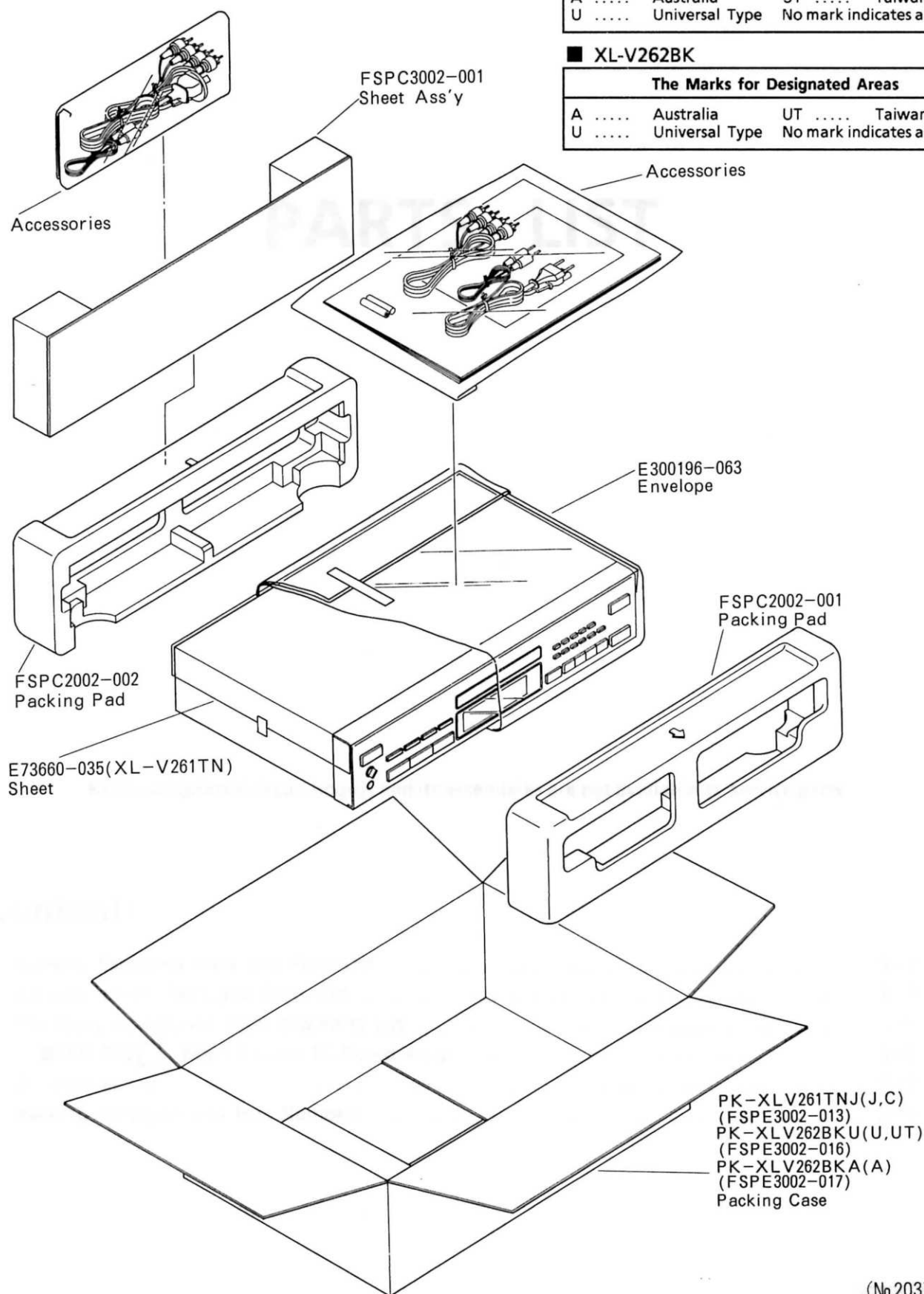
The Marks for Designated Areas

J	the U.S.A.	C	Canada
A	Australia	UT	Taiwan
U	Universal Type	No mark	indicates all areas.

■ XL-V262BK

The Marks for Designated Areas

A	Australia	UT	Taiwan
U	Universal Type	No mark	indicates all areas.



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