JVC

SERVICE MANUAL

COMPACT COMPONENT SYSTEM

EX-A1





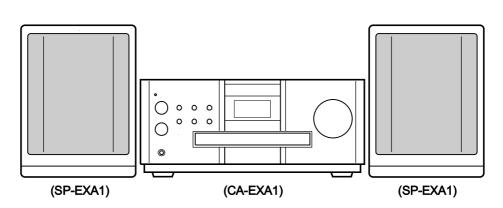












TABLE OF CONTENTS

1	PRECAUTION	. 1-
2	SPECIFIC SERVICE INSTRUCTIONS	. 1-
3	DISASSEMBLY	. 1-
4	ADJUSTMENT	1-2
5	TROUBLESHOOTING	1-2

SPECIFICATION

General	Power source		AC 230 V 50 Hz	
	Power consumption		24 W (in operation) 1.1 W (on standby)	
	Weight	- A - B - J - J - S	3.0 kg	
	External dimensions (W x H xD)		232 mm × 100 mm × 269 mm	
DVD player	Playable discs		DVD VIDEO, DVD AUDIO, VCD, Super VCD, CD, CD-R/RW (CD, VCD, MP3, JPEG format), DVD-R/ RW (video format)	
Video output	Color system		PAL	
	Horizontal resolution		500 lines	
	SCART connector x 1			
Audio output	Analog sound output	Speakers x 2	60 W (30W + 30W) at 4 Ω(10% THD)	
		Output power (IEC 268-3)	Fitting impedance : 4 Ω to 16 Ω	
		Headphones x 1	11 mW/32 Ω Fitting impedance : 16 Ω to 1 k Ω	
		Subwoofer x 1	500 mVrms/10 kΩ	
	Digital sound output	Optical x 1	-21 dBm to -15 dBm	
Other output			AV COMPU LINK × 2 (Ø3.5)	
Audio input	Sound input		AUX × 1	
	Level 1		250 mV/50 kΩ	
	Level 2		500 mV/50 kΩ	
Tuner	FM tuner	Receiving frequency	87.5 MHz to 108.0 MHz	
		Antenna	75Ω- unbalanced type	
	AM tuner	Receiving frequency	522 kHz to 1629 kHz	
		Antenna	External antenna jack (loop antenna)	
Speaker	Туре		1-way bass-reflex type Magnetically shielded type	
	Speaker		8cm cone x 1	
	Power handling capacity		30 W	
	Impedance		4Ω	
	Sound pressure level		81 dB/W m	
	Dimension (W × H × D)		120 mm ×161 mm × 239 mm	
	Weight (1 unit)		1.6 kg	

Designs and Specifications are subject to change without notice.

SECTION 1 PRECAUTION

1.1 Safety Precautions

- (1) This 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 manufacturers 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 (⚠) 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 reassembling.

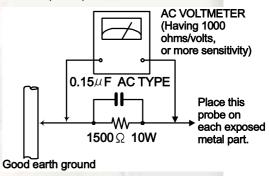
(5) Leakage shock hazard testing

After reassembling 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, 1,000Ω per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF 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. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 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.

1.3 Caution

Burrs formed during molding may be left over on some parts of the chassis.

Therefore, pay attention to such burrs in the case of preforming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (\longrightarrow), diode (\longrightarrow) and ICP (\bigcirc) or identified by the " \triangle " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer. (This regulation dose not Except the J and C version)

1.5 Safety Precautions (U.K only)

- (1) This 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.
- (2) Any unauthorised design alterations or additions will void the manufacturer's guarantee; furthermore the manufacturer cannot accept responsibility for personal injury or property damage resulting therefrom.
- (3) Essential safety critical components are identified by () on the Parts List and by shading on the schematics, and must never be replaced by parts other than those listed in the manual. Please note however that many electrical and mechanical parts in the product have special safety related characteristics. These characteristics are often not evident from visual inspection. Parts other than specified by the manufacturer may not have the same safety characteristics as the recommended replacement parts shown in the Parts List of the Service Manual and 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.

1.5.1 Warning

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

A CAUTION Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.

1.6 Preventing static electricity

Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

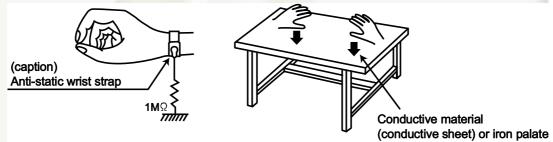
1.6.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products.

Be careful to use proper grounding in the area where repairs are being performed.

- (1) Ground the workbench
 - Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.
- (2) Ground yourself

Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup

- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

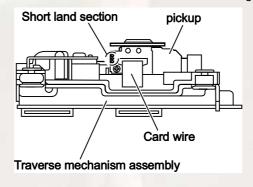
1.7 Handling the traverse unit (optical pickup)

- (1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
- (2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
- (3) Handle the flexible cable carefully as it may break when subjected to strong force.
- (4) It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

1.8 Attention when traverse unit is decomposed

*Please refer to "Disassembly method" in the text for the pickup unit.

- Apply solder to the short land sections before the flexible wire is disconnected from the connecto on the servo board. (If the flexible
 wire is disconnected without applying solder, the pickup may be destroyed by static electricity.)
- · In the assembly, be sure to remove solder from the short land sections after connecting the flexible wire.



Important for laser products

1.CLASS 1 LASER PRODUCT

- 2.DANGER: Invisible laser radiation when open and inter lock 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 CD,MD and DVD 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

6.CAUTION: Use of controls, adjustments or performance of procedures other than those specified here in may result in hazardous radiation exposure.



↑ CAUTION Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

CAUTION: Visible and invisible laser radiation when open

and interlock failed or defeated.

AVOID DIRECT EXPOSUREBTO BEAM.

ADVARSEL: Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte

eksponering til stråling.

VARNING : Synlig och osynlig laserstråling när den öppnas

och spärren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettuna tai viallisena olet

alttiina näkyvälle ja näkymätttömälle lasersäteilylle.

Vältä säteen kohdistumista suoraan itseesi.

REPRODUCTION AND POSITION OF LABELS

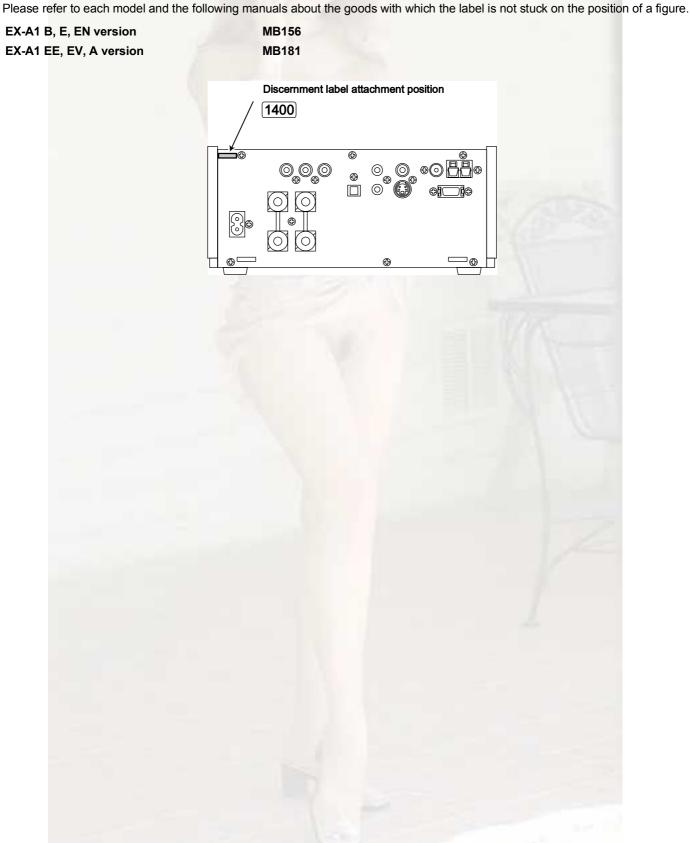
WARNING LABEL

CLASS 1 LASER PRODUCT

SECTION 2 SPECIFIC SERVICE INSTRUCTIONS

The DVD mechanism was running changed.

The label is added to the lower left on the back of a center unit as the discernment method of a DVD mechanism from goods appearance.



SECTION 3 DISASSEMBLY

3.1 Main body section

3.1.1 Removing the top cover (See Fig.1)

(1) From the top side of the main body, remove the four screws **A** attaching the top cover.

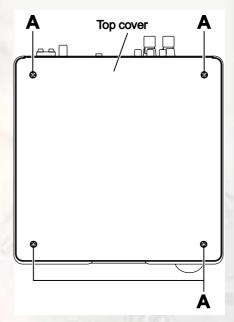


Fig.1

3.1.2 Removing the AL panel L and AL panel R (See Figs.2 to 7.)

- · Remove the top cover.
 - Remove the two screws B, screw C and screw C' attaching the bridge A. (See Fig.2.)

Reference:

When attaching the screw C' attach the lug wire with it. (See Fig.2.)

- (2) Remove the two screws **C** attaching the bridge B. (See Fig.2.)
- (3) Remove the two screws C' attaching the bridge C. (See Fig.2.)
- (4) From the back side of the main body, remove the three screws **D** attaching the bridge C. (See Fig.3.)

Reference:

When attaching the screws **C'** attach the lug wires with them. (See Fig.2.)

- (5) From the top side of the main body, remove the two screws **E** attaching the AL panel L and AL panel R. (See Fig.4.)
- (6) From the bottom side of the main body, remove the three screws **F** attaching the wood bar. (See Fig.5.)
- (7) Remove the six screws **G** and two screws **H** attaching the AL panel L and AL panel R. (See Fig.6.)
- (8) Remove the AL panel L and AL panel R in the direction of the arrow 2 while extending the back section of the AL panel L and AL panel R in the direction of the arrow 1. (See Fig.7.)

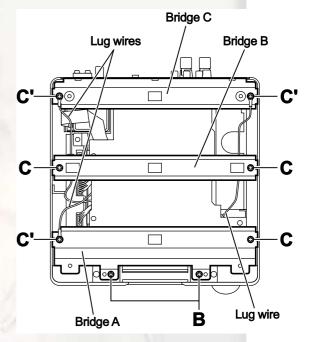


Fig.2

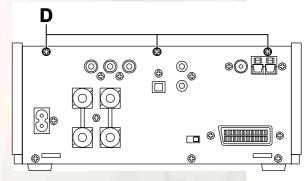


Fig.3

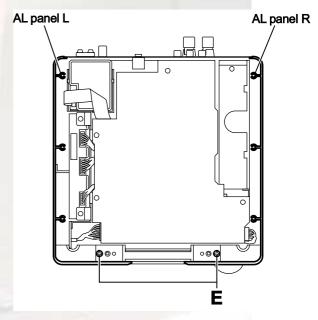


Fig.4

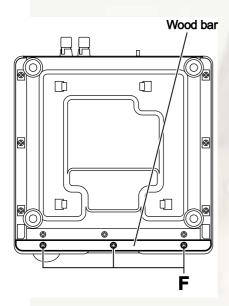


Fig.5

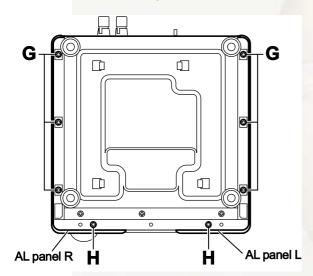


Fig.6

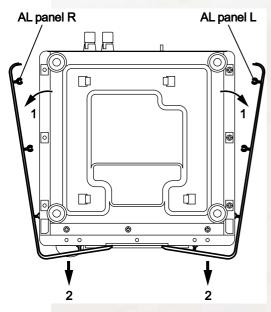


Fig.7

3.1.3 Removing the front panel assembly (See Fig.8)

- Remove the top cover, AL panel L and AL panel R.
 - (1) Removing the three screws **J** attaching the front panel assembly. (See Fig.8.)
 - (2) Release the claws **a** attaching the front panel assembly and remove the front panel assembly in the direction of the arrow. (See Fig.8.)

Note:

When attaching the front panel assembly, confirm that the connector CN804 on the front board is disconnected in the connector CN704 on the micom board certainly.

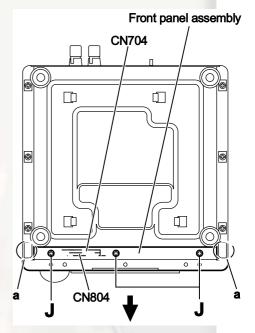


Fig.8

3.1.4 Removing the rear panel (See Fig.9.)

[For A version]

From the back side of the main body, remove the sixteen screws ${\bf K}$ and screw ${\bf L}$ attaching the rear panel.

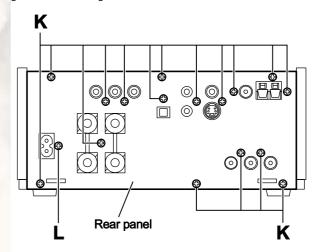
[For B/E/EN/EV/EE version]

From the back side of the main body, remove the fifteen screws ${\bf K}$ and screw ${\bf L}$ attaching the rear panel.

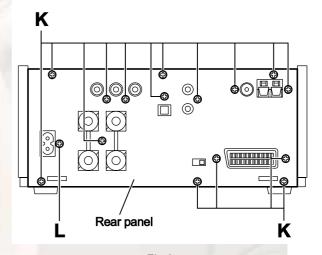
3.1.5 Removing the switching power unit (See Figs.9 and 10)

- · Remove the top cover, AL panel L and AL panel R.
 - From the back side of the main body, remove the screw L attaching the switching power unit. (See Fig.9.)
 - (2) From the right side of the main body, disconnect the wire from the connector <u>CN201</u> on the main board. (See Fig.10.)
 - (3) Remove the screw **M** attaching the switching power unit. (See Fig.10.)
 - (4) From the top side of the switching power unit, remove the spacer fixing the lug wire. (See Fig.10.)
 - (5) Take out the switching power unit from the main body in the direction of the arrow. (See Fig.10.)

[For A version]



[For B/E/EN/EV/EE version]



Spacer
Lug wire
Main board
Wire
M Switching power unit

Fig.10

3.1.6 Removing the tuner (See Figs.11 and 12)

- · Remove the top cover and rear panel.
 - From the top side of the main body, remove the two screws N attaching the bridge C. (See Fig.11.)

Reference:

When attaching the screws \mathbf{N} , attach the lug wires with them. (See Fig.11.)

- (2) Release the claws **b** of the tuner holder and take out the tuner from the main body. (See Fig.12.)
- (3) Disconnect the card wire from the connector <u>CN1</u> on the tuner. (See Fig.12.)

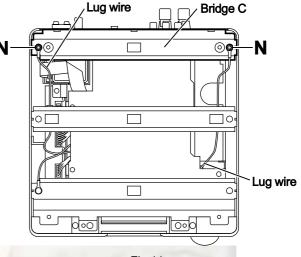


Fig.11

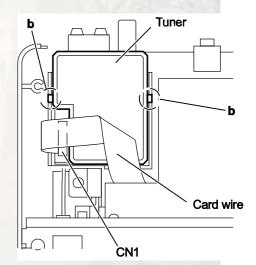


Fig.12

3.1.7 Removing the headphone board (See Fig.13)

- Remove the top cover, AL panel L, AL panel R and front panel assembly.
 - (1) From the left side of the main body, disconnect the wire from the connector <u>CN401</u> on the main board.
 - (2) Remove the screw P attaching the headphone board.
 - (3) Remove the engagement section **c** toward this side, remove the headphone board from the joint **d** in the direction of the arrow.

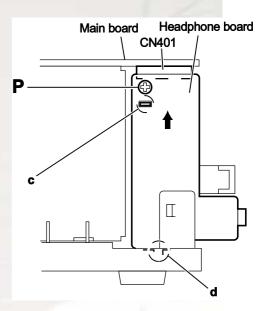


Fig.13

3.1.8 Removing the main board (See Figs.14 and 15)

 Remove the top cover, AL panel L, AL panel R, rear panel and switching power unit.

Reference:

Remove the front panel assembly as required.

- (1) From the top side of the main body, disconnect the card wires from the connectors (CN202 and CN204) on the main board. (See Fig.14.)
- (2) Disconnect the wires from the connectors (<u>CN205</u> and <u>CN401</u>) on the main board. (See Fig.14.)
- (3) Disconnect the wire from the connector <u>CN706</u> on the micom board. (See Fig.14.)
- (4) Disconnect the wires from the connectors (<u>CN310</u> and <u>CN312</u>) on the digital amplifier board assembly. (See Fig.14.)
- (5) Remove the screw Q attaching the lug wire to the bracket A. (See Fig.14.)
- (6) Disconnect the lug wire from TP201 on the main board. (See Fig.14.)
- (7) Remove the spacer fixing the lug wire. (See Fig.15.)
- (8) Remove the four screws **R** attaching the main board and remove the main board from the main body. (See Fig.15.)

Reference:

When attaching the main board, attach the screws **R** after fitting the holes of the main board to the joints **e** and f of the main body. (See Fig.15.)

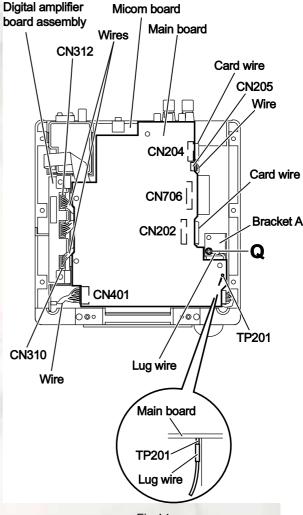


Fig.14

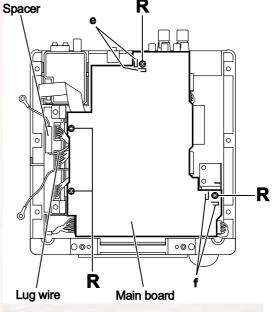


Fig.15

3.1.9 Removing the micom board (See Figs.16 and 17)

- Remove the top cover, AL panel L, AL panel R, front panel assembly, rear panel, switching power unit and main board.
 - From the top side of the main body, disconnect the card wires from the connectors (<u>CN631</u> and <u>CN701</u>) on the micom board. (See Fig.16.)
 - (2) Disconnect the card wire from the connector <u>CN705</u> on the micom board and take out the tuner after releasing the claws **g** of the tuner holder. (See Fig.16.)

Reference:

Remove the tuner as required.

- (3) Disconnect the wire from the connector <u>CN311</u> on the digital amplifier board assembly. (See Fig.16.)
- (4) Disconnect the card wire from the connector <u>CN611</u> on the main board. (See Fig.17.) **[For A version]**
- (5) Disconnect the card wire from the connector <u>CN601</u> on the main board. (See Fig.17.) **[For B/E/EN/EV/EE version]**
- (6) Remove the two screws S and screw S' attaching the micom board. (See Fig.17.)

Reference:

- When attaching the screw S', attach the bracket D with it. (See Fig. 17.)
- When attaching the micom board, attach the screw S and screw S' after fitting the holes of the main board to the joints (h,i,j,k) of the main body. (See Fig.17.)

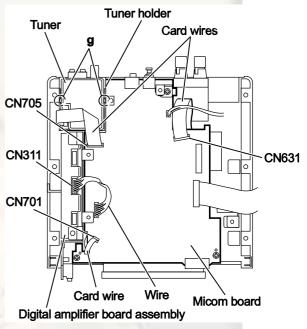


Fig.16

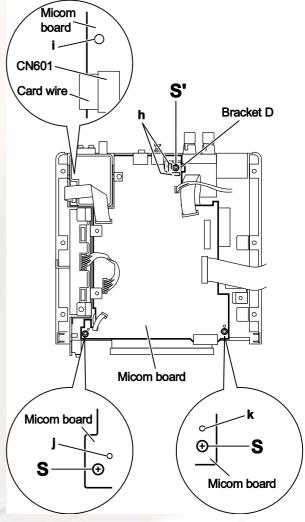


Fig.17

3.1.10 Removing the digital amplifier board (See Figs.18 to 20)

- Remove the top cover, AL panel L, AL panel R, front panel assembly, rear panel, switching power unit, main board and micom board.
 - (1) From the back side of the main body, disconnect the card wire from the connector <u>CN313</u> on the digital amplifier board assembly. (See Fig.18.)

Reference:

When connecting the wire, connect the wire to connector CN313 on the digital amplifier board assembly after pass it through the section **m** of the side cover L. (See Fig.18.)

- (2) From the top side of the main body, remove the two screws **T** and two screws **U** attaching the bracket C. (See Fig.18.)
- (3) Take out the bracket C with the headphone board from the main body.

Reference:

When attaching the bracket C to the bottom chassis, attach it after fitting the holes to the projections n of the bottom chassis. (See Fig.18.)

- (4) Take out the digital amplifier board assembly.
- (5) Release the joints (p,q,r) of the deus case A and deus case B, and remove the deus case A in the direction of the arrow. (See Fig.19.)
- (6) Remove the screw **V** attaching the heat sink. (See Fig.20.)
- (7) Remove the solder from the soldered sections (s,t) attaching the digital amplifier board to the deus case B and bend the joints (u,v) in the direction of the arrow. (See Fig.20.)
- (8) Take out the digital amplifier board from the deus case B.

Reference:

When attaching the digital amplifier board to the deus case B, fit the joints $(\mathbf{u}, \mathbf{v}, \mathbf{w}, \mathbf{x})$ of the deus case B to the holes of the digital amplifier board. (See Fig.20.)

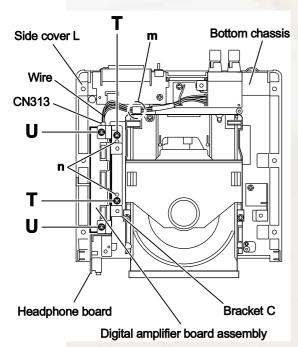


Fig.18

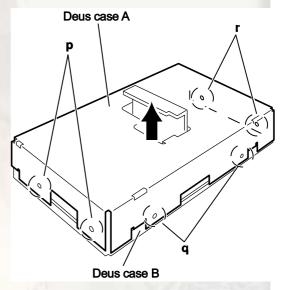


Fig.19

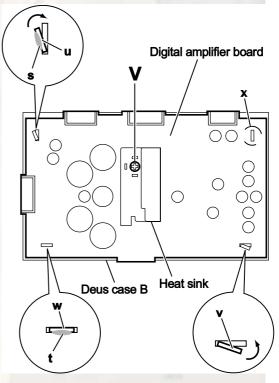


Fig.20

3.1.11 Removing the speaker terminal board (See Fig.21.)

- Remove the top cover, AL panel L, AL panel R, front panel assembly, the rear panel, switching power unit, main board and micom board.
 - From the back side of the main body, disconnect the wire from the connector <u>CN313</u> on the digital amplifier board assembly.

Reference:

When connecting the wire, connect the wire to connector CN313 on the digital amplifier board assembly after pass it through the section **y** of the side cover L. (See Fig.21.)

(2) From the top side of the main body, remove the screw **W** attaching the speaker terminal board.

Reference:

When attaching the speaker terminal board, attach the screw $\bf W$ after fitting the hole of the speaker terminal board to the joint $\bf z$ of the side cover $\bf R$.

3.1.12 Removing the component video terminal board (See Fig.21) [For A version]

 Remove the top cover, AL panel L, AL panel R, front panel assembly, rear panel, switching power unit, main board and micom board.

From the top side of the main body, remove the screw **X** attaching the component video terminal board.

Reference:

When attaching the component video terminal board, attach the screw **X** after fitting the hole of the component video terminal board to the joint **aa** of the side cover L.

3.1.13 Removing the scart terminal board (See Fig.22) [For B/E/EN/EV/EE version]

 Remove the top cover, AL panel L, AL panel R, front panel assembly, rear panel, switching power unit, main board and micom board.

From the top side of the main body, remove the screw **X** attaching the scart terminal board.

Reference:

When attaching the scart terminal board, attach the screw **X** after fitting the hole of the scart terminal board to the joint **aa** of the side cover L.

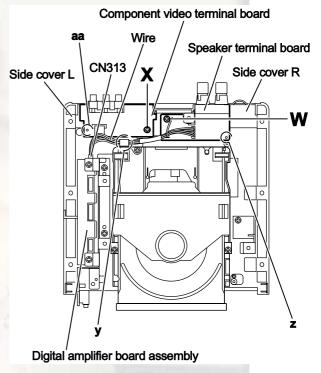


Fig.21

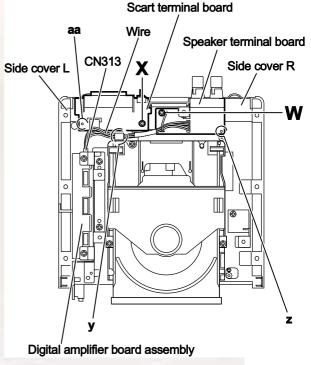


Fig.22

3.1.14 Removing the DVD mechanism assembly (See Fig.23.)

- Remove the top cover, AL panel L, AL panel R, front panel assembly, rear panel, switching power unit, main board and the micom board.
 - (1) From the top side of the main body, remove the three screws **Y** attaching the DVD mechanism assembly.
 - (2) Take out the DVD mechanism assembly from the main body.

3.1.15 Removing the front board (See Figs.24 and 25)

- Remove the top cover, AL panel L, AL panel R and front panel assembly.
 - (1) From the front side of the front panel assembly, pull out the volume assembly in the direction of the arrow. (See Fig.24.)
 - (2) From the inside of the front panel assembly, remove the ten screws **Z** attaching the front board. (See Fig.25.)
 - (3) Release the two claws ab of the indicator attaching the front board and take out the front board from the front panel assembly. (See Fig.25.)

Reference:

When attaching the front board, attach the screws **Z** after fitting the holes of the front board to the projections ac of the front panel assembly. (See Fig.25.)

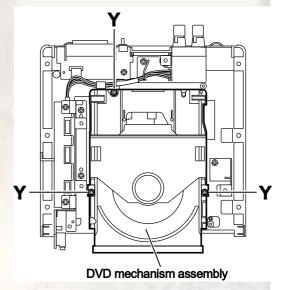


Fig.23

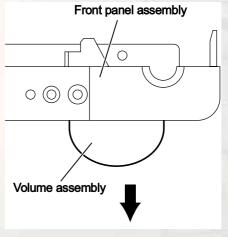


Fig.24

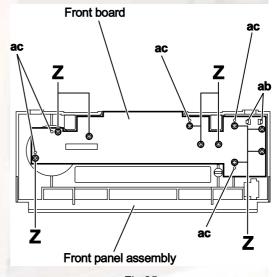


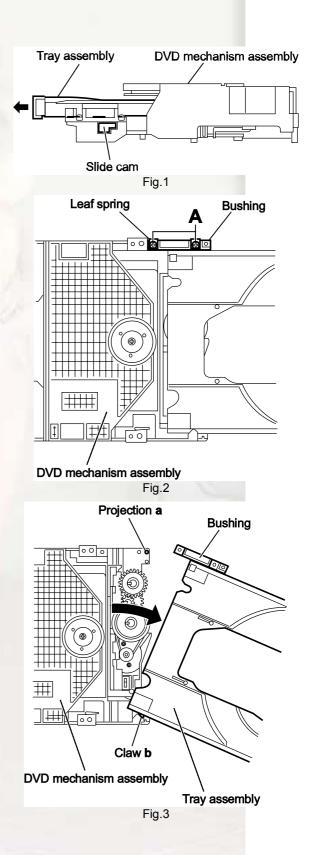
Fig.25

3.2 DVD mechanism section

 Remove the DVD mechanism assembly from the main body. (See "3.1.13 Removing the DVD mechanism assembly".)

3.2.1 Removing the tray assembly (See Figs.1 to 3)

- (1) From the right side of the DVD mechanism assembly, push the slide cam and pull the tray assembly out of the DVD mechanism assembly in the direction of the arrow. (See Fig.1.)
- (2) From the top side of the DVD mechanism assembly, remove the two screws **A** attaching the leaf spring to the bushing and remove the leaf spring. (See Fig.2.)
- (3) Remove the bushing of the tray assembly from the projection **a** on the DVD mechanism assembly and move the tray assembly in the direction of the arrow. (See Fig.3.)
- (4) Remove the claw **b** of the tray assembly from the DVD mechanism assembly and take out the tray assembly. (See Fig.3.)



3.2.2 Removing the traverse mechanism assembly (See Figs.4)

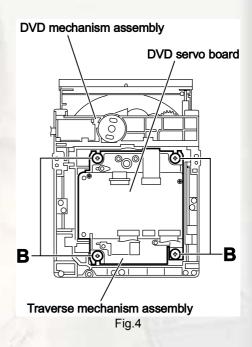
(1) From the bottom side of the DVD mechanism assembly, remove the four screws B attaching the traverse mechanism assembly and take out the DVD traverse mechanism assembly with the DVD servo board.

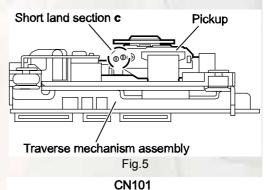
3.2.3 Removing the DVD servo board (See Figs.5 and 6)

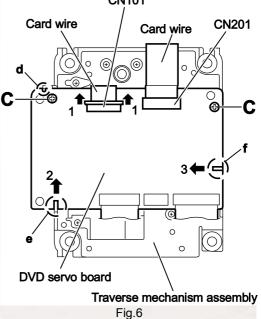
- · Remove the traverse mechanism assembly.
- (1) From the side of the traverse mechanism assembly, solder the short land sections **c** on the pickup. (See Fig.5.)
- (2) From the bottom side of the traverse mechanism assembly, release the lock of the connector CN101 on the DVD servo board in the direction of the arrow 1 and disconnect the card wire. (See Fig.6.)

Caution:

- Solder the short land sections c on the pickup before disconnecting the card wire from the connector <u>CN101</u> on the DVD servo board. If the card wire is disconnected without attaching solder, the pickup may be destroyed by static electricity. (See Figs.5 and 6.)
- When attaching the DVD servo board, be sure to remove solders from the short land sections c after connecting the card wire to the connector <u>CN101</u> on the DVD servo board. (See Figs.5 and 6.)
- (3) Disconnect the card wire from the connector <u>CN201</u> on the DVD servo board. (See Fig.6.)
- (4) Remove the two screws **C** attaching the DVD servo board. (See Fig.6.)
- (5) Remove the DVD servo board from the engagement section **d** in an upward and remove the engagement section **f** in the direction 3 while removing the engagement section **e** in the direction of the arrow 2. (See Fig.6.)







3.2.4 Removing the pickup (See Figs.5,7 to 9)

- · Remove the traverse mechanism assembly.
 - (1) From the side of the traverse mechanism assembly, solder the short land sections **c** on the pickup. (See Fig.5.)
 - (2) Release the lock of the connector on the pickup in the direction of the arrow and disconnect the card wire. (See Fig.7.)

Caution:

- Solder the short land sections c on the pickup before disconnecting the card wire from the connector on the pickup. If the card wire is disconnected without attaching solder, the pickup may be destroyed by static electricity. (See Figs.5 and 7.)
- When attaching the pickup, be sure to remove solders from the short land sections c after connecting the card wire to the connector on the pickup. (See Figs.5 and 7.)
- (3) Remove the screw **D** attaching the plate and thrust spring. (See Fig.7.)
- (4) Remove the engagement section **g** attaching the plate to the feed holder and remove the plate with the thrust spring. (See Fig.7.)
- (5) Remove the shaft of the pickup from the section **h** on the traverse mechanism assembly and remove the shaft from the section **i** while moving it in the direction of the arrow. (See Fig.8.)
- (6) Remove the pickup from the section **j** of the traverse mechanism assembly and take out the pickup with the shaft. (See fig.8.)
- (7) From the bottom side of the pickup, remove the two screws E attaching the SW actuator and LEAD spring. (See Fig.99.)
- (8) Pull the shaft out of the pickup. (See Fig.9.)

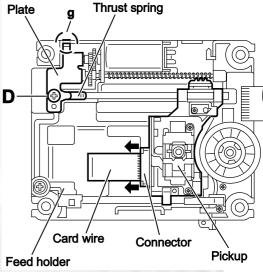
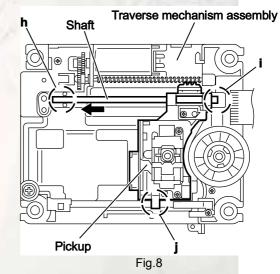


Fig.7



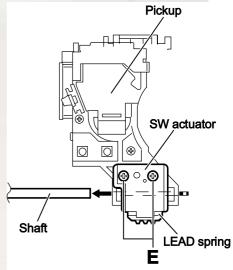
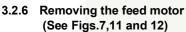


Fig.9

3.2.5 Attaching the pickup (See Figs.5,7 to 10)

- · See "3.2.4 Removing the pickup".
 - (1) Attach the shaft, SW actuator and LEAD spring to the pickup. (See Fig.9.)
 - (2) Align the pickup to the section **j** of the traverse mechanism assembly first, and set the both ends of the shaft of the pickup in the sections g and i of the traverse mechanism assembly. (See Fig.8.)
 - (3) Attach the plate and thrust spring. (See Fig.7.)
 - (4) Remove solders from the short land sections c after connecting the card wire to the connector on the pickup. (See Figs.5 and 7.)
 - (5) Turn the feed gear M in the direction of the arrow 1 to move the pickup in the direction of the arrow 2. (See Fig. 10.)



- · Remove the traverse mechanism assembly.
 - (1) From the top side of the traverse mechanism assembly, remove the screw **D** attaching the plate and thrust spring.
 - (2) Remove the engagement section **g** attaching the plate to the feed holder and remove the plate with the thrust spring. (See Fig.7.)
 - (3) Remove the wires from the soldered section k on the spindle motor board. (See Fig.11.)

When attaching the feed motor, pass the wire through the section **m** on the spindle base. (See Fig.11.)

- (4) Remove the feed holder, feed motor, lead screw, feed gear E and feed gear M at the same time after removing the two screws F attaching the feed holder. (See Fig.11.)
- (5) From the side of the feed holder, remove the two screws G attaching the feed motor. (See Fig.12.)

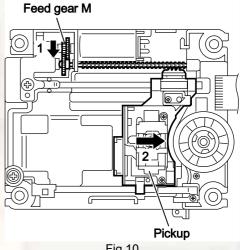


Fig.10

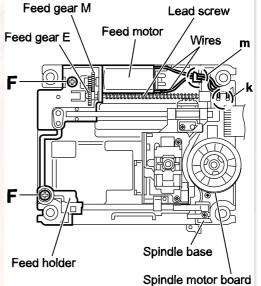


Fig.11

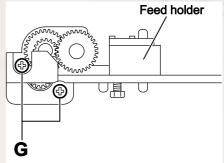
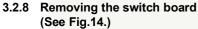


Fig.12

3.2.7 Removing the spindle motor board (See Figs.11 and 13)

- · Remove the traverse mechanism assembly.
- · Remove the DVD servo board.
 - (1) From the top side of the traverse mechanism assembly, remove the wires from the soldered section **k** on the spindle motor board. (See Fig.11.)
 - (2) From the bottom side of the traverse mechanism assembly, remove the three screws **H** attaching the spindle motor board. (See Fig.13.)



- (1) From the bottom side of the DVD mechanism assembly, remove the wires from the soldered section n on the switch board.
- (2) Lift the switch board while pressing the claw **p** of the DVD mechanism assembly in the direction of the arrow and remove it from the section **q**.

Reference:

- Put the wires on the section r after attaching the switch board to the DVD mechanism assembly.
- Fix the claw **p** on the DVD mechanism assembly with bonds after attaching the switch board.

3.2.9 Removing the motor (See Figs.14 and 15)

- · Remove the tray assembly.
 - (1) From the bottom side of the DVD mechanism assembly, remove the wires from the soldered section n on the switch board.
 - (2) From the top side of the DVD mechanism assembly, remove the belt from the motor pulley. (See Fig.15.)

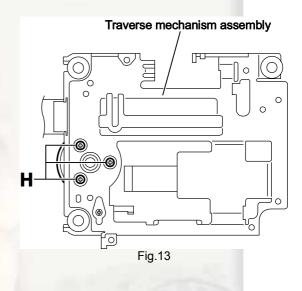
Note:

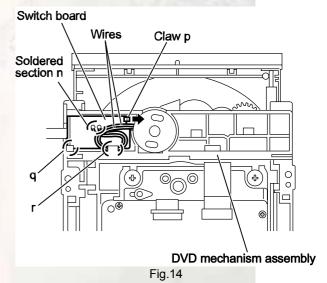
Take care not to attach grease on the belt.

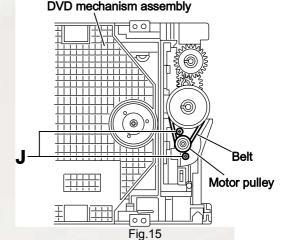
(3) Remove the two screws J attaching the motor to the DVD mechanism assembly and take out the motor from the bottom side of the DVD mechanism assembly. (See Fig.15.)

Reference:

Put the wires on the section $\bf r$ after attaching the motor to the DVD mechanism assembly. (See Fig.14.)







SECTION 4 ADJUSTMENT

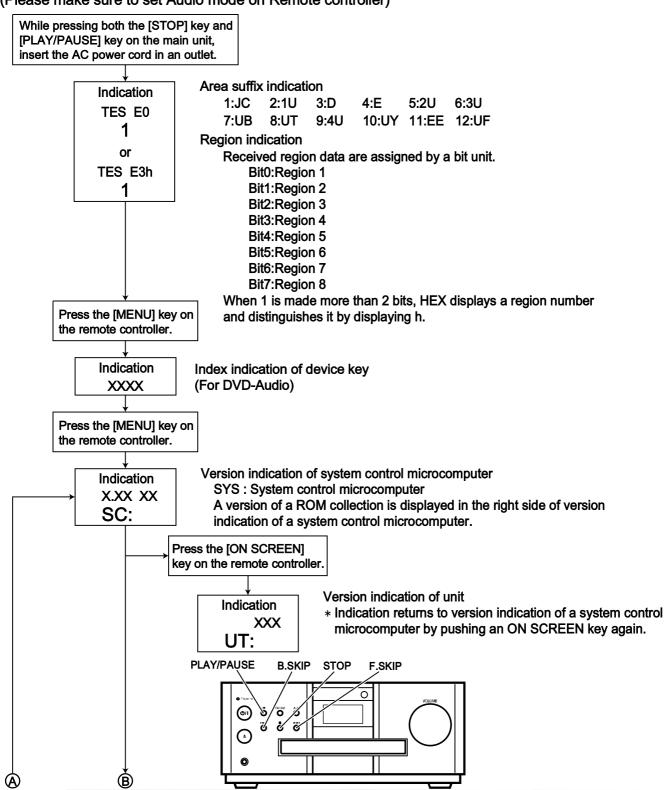
4.1 Jigs and test instruments

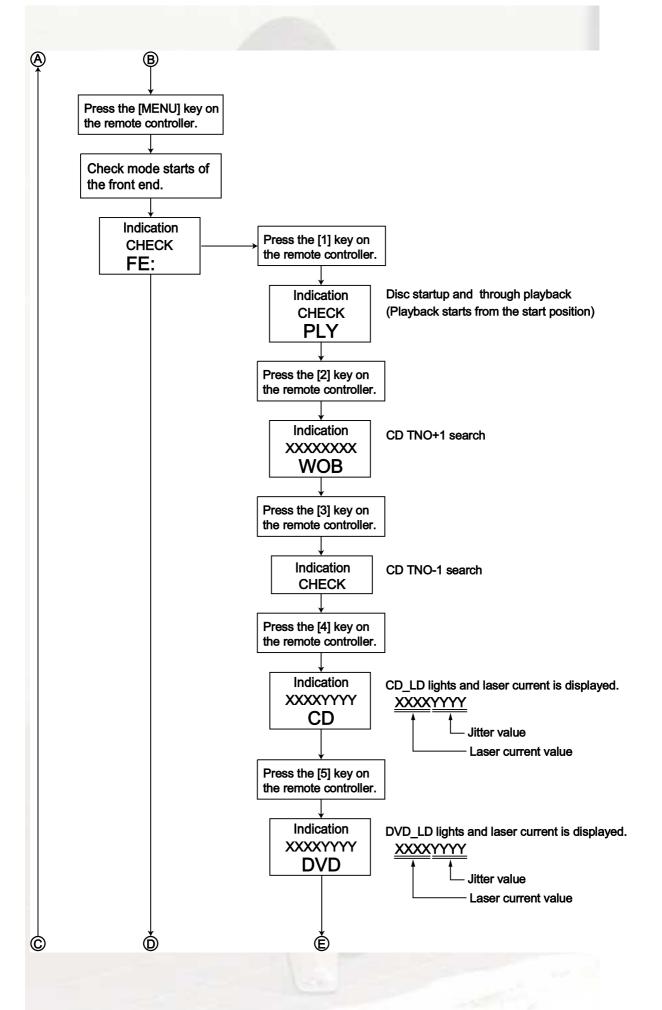
· Remote controller

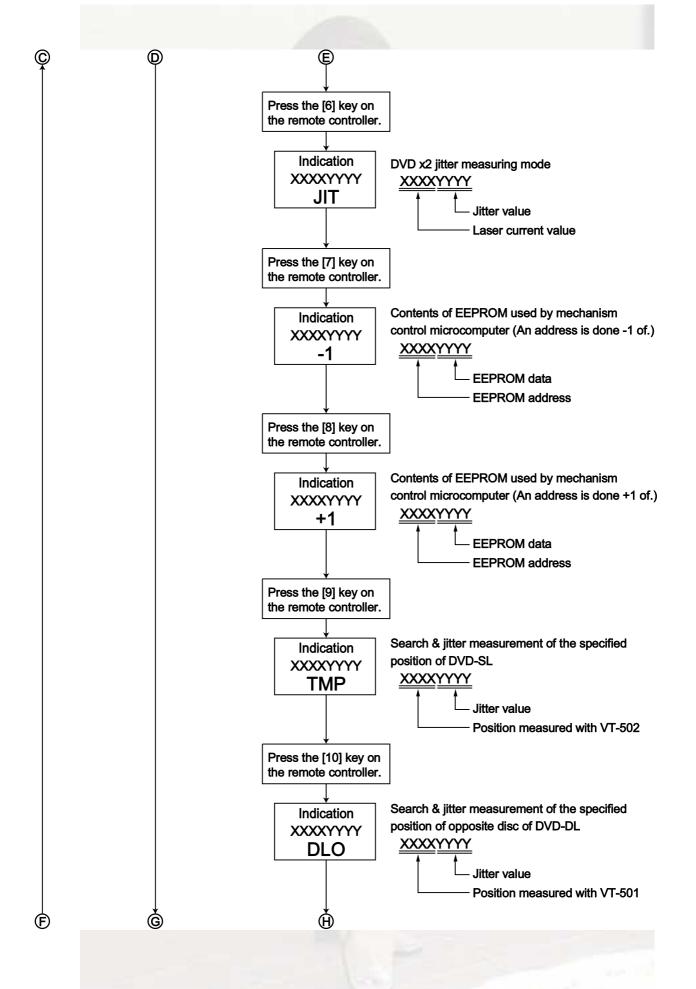
Test disc: VT501, VT502

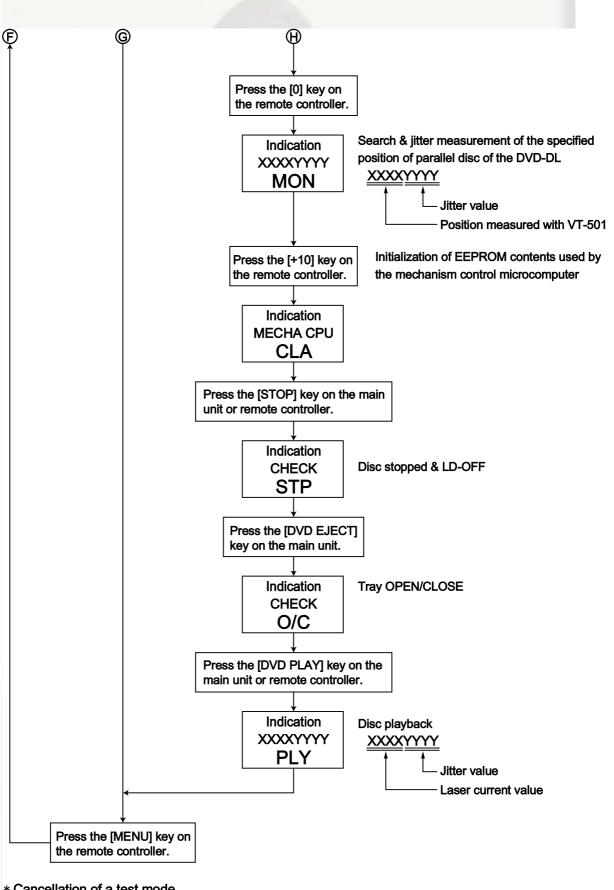
4.2 Adjustment and check method

(Please make sure to set Audio mode on Remote controller)



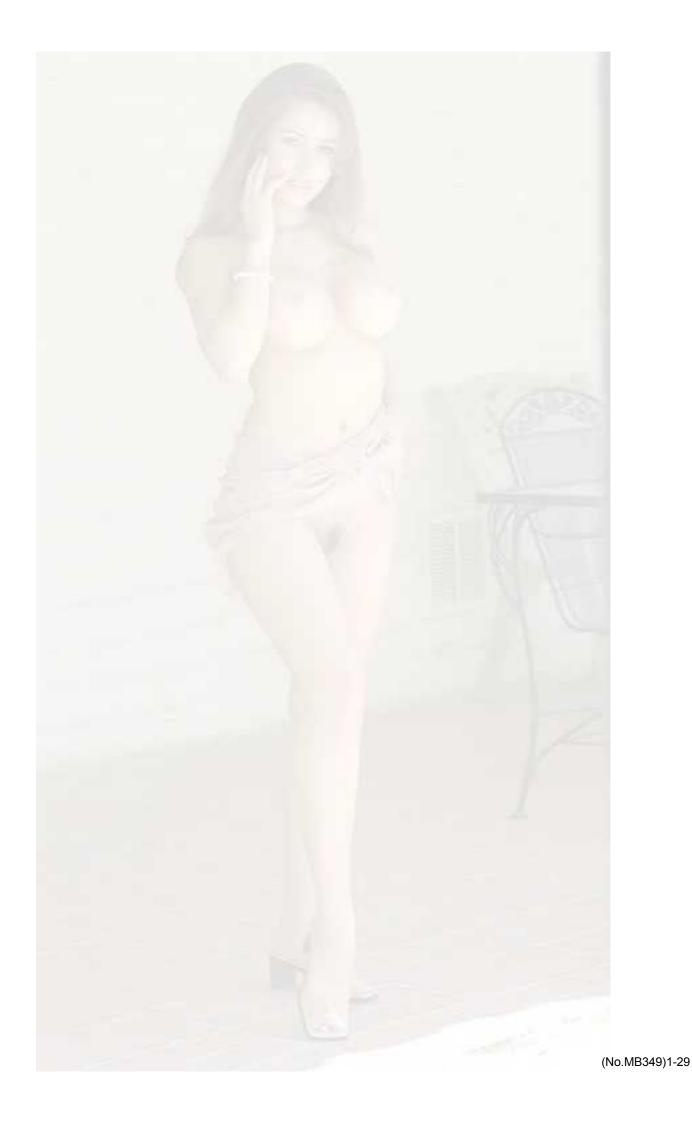






* Cancellation of a test mode
Push the [STANDBY] key on the main unit or remote controller.
Cancellation of a test mode can execute any step in adjustment.

SECTION 5 TROUBLESHOOTING This service manual does not describe TROUBLESHOOTING.





JVC



COMPACT COMPONENT SYSTEM

EX-A1

Consists of CA-EXA1 and SP-EXA1



INSTRUCTIONS

LVT1284-012A

Warnings, cautions and others

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.

CAUTION - O/I button!

Disconnect the mains plug to shut the power off completely (the STANDBY lamp goes off).

The O/I button in any position does not disconnect the mains line.

- When the system is on standby, the STANDBY lamp lights red.
- When the system is turned on, the STANDBY lamp goes off.
 The power can be remote controlled.

CAUTION

- Do not block the ventilation openings or holes.
 (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be considered and local rules or laws governing the disposal of these batteries must be followed strictly.
- Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

IMPORTANT FOR LASER PRODUCTS

- 1. CLASS 1 LASER PRODUCT
- CAUTION: Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
- CAUTION: Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
- 4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

CAUTION : Visible and invisible	ADVARSEL: Synlig og usynlig	VARNING : Synlig och	VARO : Avattaessa ja suojalukitus
laser radiation when open and	laserstråling når maskinen er	osynlig laserstrålning när	ohitettuna tai viallisena olet alttiina
interlock failed or defeated.			näkyvälle ja näkymättömälle
AVOID DIRECT EXPOSURE TO	Undgå direkte eksponering til	urkopplad. Betrakta ej	lasersäteilylle. Vältä säteen
			kohdistumista suoraan itseesi. (f)

CAUTION - Proper Ventilation

To avoid risk of electric shock and fire and to protect from damage, locate the apparatus as follows:

Top/Front/Back/Sides: No obstructions should be placed in the areas shown by the dimensions below.

Bottom: Place on the level surface. Maintain adequate air path for ventilation by placing on

a stand with a height of 10 cm more.

In addition, maintain the best possible air circulation.

Front view Main unit Wall or obstructions Front Front

Table of contents

Introduction
Introduction
Warnings, cautions and othersG-1
Special cautions2
About discs3
To select the color system5
Description of parts6
Getting started
Using the remote control7
Putting the batteries in the remote control 7
Operating the TV using the remote control 8
Connecting up9
Basic operations
Playing discs13
Playback 13
To switch the display14
Select what you want to play by using
the number buttons15
To stop playback15
To pause playback15
To advance picture frame-by-frame 15
Fast reverse/Fast forward search15
Playing back from a position 10 seconds
before (One Touch Replay) 16
Slow Motion Playback 16
Skip to the beginning of the selection 16
To change the brightness of the
display window (DIMMER)
Adjusting the volume
Adjusting sound quality
ruming off the sound temporarily (MOTING) 17
Advanced operations
Playing MP3 and JPEG discs17
Resume Playback
Select the scene to be played20
Program Playback/Random Playback21
Repeat Playback
Other convenient functions25
Selecting the subtitles
Selecting the audio language
Selecting a view angle
Enlarging the picture (ZOOM)26

Adjusting the picture quality (VFP) 26

(VIRTUAL SURROUND)27 Adjusting playback level (DVD LEVEL)27 Enjoying better pictures (PROGRESSIVE)...... 27

Creating realistic sound

Functions specific to DVD AUDIO	28
Playing the Bonus Group	
Browsable Still Pictures (B.S.P.)	
Using the menu bar	
Preferences	
Country/Area codes	
Listening to radio	
Listening to a radio broadcast	33
Tuning in to a preset station	34
Convenient functions	
Listening to the sound of	
other audio device	35
Auto Standby	35
Sleep Timer	
Tray Lock	
Using AV COMPU LINK	37
Reference	
Troubleshooting	38
Language codes	39
Specifications	

How to read this manual

- · Operations are described by mainly using the remote control buttons. If there are the same marks on the main unit, the buttons on the main unit can also be used.
- The following marks tell you for which type of the discs the operation can be made.



- The illustrations and TV screens may be different between the actual case and the description. "VCD" is an abbreviation of "Video CD". "SVCD" is an abbreviation of "Super Video CD".

Notes on handling

Important cautions

Installation of the system

- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C.
- Leave sufficient distance between the system and the
- · Do not use the system in a place subject to vibration.

- Do not handle the power cord with wet hands!
- A small amount of power is always consumed while the power cord is connected to the wall outlet.
- When unplugging the power cord from the wall outlet, always pull on the plug, not the power cord.

To prevent malfunctions of the system

- There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the system.
- Do not use any non-standard shape disc (like a heart, flower or credit card, etc.) available on the market, because it may damage the system.
- Do not use a disc with tape, stickers, or paste on it, because it may damage the system.



Note about copyright laws

Check the copyright laws in your country before recording from DVDs, Super Video CDs (SVCDs), VCDs and CDs. Recording of copyrighted material may infringe copyright laws.

Note about copy guard system

DVDs are protected by copy guard system. When you connect the system to your VCR directly, the copy guard system activates and the picture may not be played back correctly.

■ Safety precautions

Avoid moisture, water and dust

Do not place the system in moist or dusty places.

Avoid high temperatures

Do not expose the system to direct sunlight and do not place it near a heating device.

When you are away

When away on travel or for other reasons for an extended period of time, disconnect the power cord plug from the wall outlet.

Do not block the vents

Blocking the vents may damage the system.

Care of the cabinet

When cleaning the system, use a soft cloth and follow the relevant instructions on the use of chemically-coated cloths. Do not use benzene, thinner or other organic solvents including disinfectants. These may cause deformation or discoloring.

If water gets inside the system

Turn the system off and disconnect the power cord plug from the wall outlet, then call the store where you made your purchase. Using the system in this condition may cause fire or electrical shock.

When condensation or water drops adhere to the lens

In any of the following cases, condensation or water drops may adhere to the lens to prevent the system from working properly:

- Immediately after roomheating starts
- When the system is installed in a steamy or damp space
- When the system is suddenly moved from a cold place to a warm space

In any of these cases, leave the system turned on for 1 or 2 hours before use.

Supplied accessories

Check to be sure you have all of the supplied accessories

The number in parentheses is the quantity of the pieces supplied. If anything is missing, contact your dealer immediately.

- Remote control (1)
- Batteries (2)
- FM antenna (1)
- AM loop antenna (1)
- Power cord (1)
- Composite video cord (1)
- Speaker cords (2)

Manufactured under license from Dolby Laboratories. "Dolby", "MLP Lossless", and the double-D symbol are

Manufactured under license from Dolby Laboratories. "Dolby", "MLP Lossiess", and the double-D symbol are trademarks of Dolby Laboratories.
"DTS" and "DTS 2.0+DIGITAL OUT" are registered trademarks of Digital Theater Systems, Inc.
This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Playable disc types

This system has been designed to play back the following discs:

DVD VIDEO, DVD AUDIO, VCD, SVCD, CD

This system can also play back the following discs:

- Finalized DVD-R/RW discs recorded in the DVD VIDEO format.
- · CD-R/RW discs recorded in the following formats
- Music CDs (finalized discs)
- VCDs
- SVCDs
- MP3/JPEG discs recorded in ISO 9660 (for details, refer to "About MP3/JPEG discs")

However, some discs may not be played back because of their disc characteristics, recording conditions, or damage or stain on them.

Only sounds can be played back from the following discs:

MIX-MODE CD CD-EXTRA

CD-G CD TEXT

Discs you can play:

Discs you can play:					
Disc Type	Mark (Logo)	Video Format	Region Code Number*		
DVD VIDEO	VIDEO TM VIDEO	PAL/ NTSC	4/ALL		
DVD AUDIO	AUDIO/VIDEO AUDIO	_	_		
VCD	Video CD	PAL/ NTSC	_		
SVCD	COMPACT VIDEO SUPER VIDEO CD	PAL/ NTSC	_		
CD	COMPACT DISC DIGITAL AUDIO	_	_		
CD-R	COMPACT CISC DIGITAL AUDIO Recordable	_	_		
CD-RW	COMPACT DIGITAL AUDIO ReWritable	_	_		

* Note on Region Code

DVD players and DVD VIDEOs have their own Region Code numbers. This system can only play back a DVD VIDEO recorded with the Region Code number and video format mentioned above.

Examples:









If a DVD VIDEO with an improper Region Code number is loaded, "REGION CODE ERROR!" appears on the TV screen and playback cannot start.

 On some DVD VIDEOs, DVD AUDIOs, VCDs or SVCDs, their actual operation may be different from what is explained in this manual. This is due to the disc programming and disc structure, not a malfunction of this system.

Discs that cannot be played back

 The following discs cannot be played back: DVD-ROM, DVD-RAM, DVD-R/RW (recorded in VR format), CD-ROM, CD-I (CD-I Ready), Photo CD, SACD, etc.

Playing back these discs will generate noise and damage the speakers.

Damaged discs and discs in an extraordinary shape (other than a disc of 12 cm or 8 cm in diameter) cannot be played back.

About MP3/JPEG discs

Playable MP3/JPEG discs and files

- Discs recorded in the ISO 9660 format are playable (except discs recorded in the "packet write" format (UDF format)).
- Discs recorded in the multi-session format are also playable.
- Files with an extension of ".mp3," ".jpg" or ".jpeg" (extensions with uppercase and lowercase letters mixed are also acceptable) are playable.

Notes on MP3/JPEG discs and files

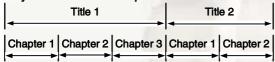
- A disc may not be played, or reading it may take a long time depending on its recording conditions or properties.
- The time needed for reading varies with the number of groups or tracks (files) recorded on the disc.
- If a character other than single byte English characters is used in the file name of an MP3/JPEG file, the track/ file name will not be displayed correctly.
- The order of tracks/groups displayed on the MP3
 Control screen, and the order of files/groups displayed
 on the JPEG Control screen may be different from that
 of files/folders displayed on PC's monitor screen.
- of files/folders displayed on PC's monitor screen.

 An off-the-shelf MP3 disc may be played in an order different from that indicated on the label attached to the disc.
- Playing an MP3 file including a still image may take a long time. The elapsed time is not displayed until playing starts. If playing starts, the elapsed time may not be displayed correctly.
- This system does not handle the ID3 tag of the MP3 file.
- For an MP3 file, a disc with a sampling frequency of 44.1 kHz and transmission rate of 128 kbps is recommended.
- This system can play a baseline JPEG file, excluding monochromatic JPEG files.
- This system can play JPEG data taken with a digital camera conforming to the DCF (Design Rule for Camera File System) standard (when a function is applied such as the automatic rotation function of a digital camera, data goes beyond the DCF standard, so the image may not be displayed).
- If data has been processed, edited and restored with PC image editing software, the data may not be displayed.
- This system cannot play animations such as MOTION JPEG, or still images (TIFF etc.) other than JPEG, and image data with sound.
- The resolution of 640 x 480 pixels is recommended for JPEG files. If a file has been recorded at a resolution of more than 640 x 480 pixels, display may take a long time. An image with a resolution of more than 8192 x 7680 pixels cannot be displayed.
- Files recorded on DVD-R/RW discs cannot be played back.

Disc structure

DVD VIDEO

A DVD VIDEO consists of "titles" and each title may be divided into "chapters".



DVD AUDIO

A DVD AUDIO consists of "groups" and each group may be divided into "tracks".

Some discs include a "bonus group" that requires a password for playing (pp page 28).



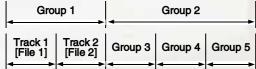
VCD/SVCD/CD

VCD, SVCD and CD consist of "tracks". In general, each track has its own track number. (On some discs, each track may also be further divided by indexes.)

MP3 [JPEG] discs

On an MP3 [JPEG] disc, each still picture (material) is recorded as a track [file]. Tracks [Files] are usually grouped into a folder. Folders can also include other folders, creating hierarchical folder layers.

This unit simplifies the hierarchical construction of a disc and manages folders by "groups".



This product can recognize up to 1000 tracks [files] in a disc. Also, the product can recognize up to 150 tracks [files] per group and up to 99 groups in a disc. Since the unit ignores the tracks [files] whose numbers are exceeding 150 and the groups whose numbers are exceeding 99, they cannot be played back.

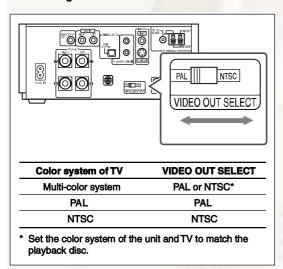
 If there is any type of files other than MP3 [JPEG] files in a folder, those files are also counted in the total file number.

To select the color system

This system is compatible with PAL and NTSC color systems.

In standby mode, select PAL or NTSC to match your TV.

If the VIDEO OUT SELECT switch is switched over when the power is ON, turn off the power, and then turn it on again.



 Before playing back a disc, it is also required to select the correct monitor type in the PICTURE menu according to the aspect ratio of your TV (reg page 30).

NOTE

If you play back an NTSC disc with this setting set to "PAL".

You can watch the playback pictures (the disc will be reproduced using "PAL 60" format), but the TV screen may rolls over upward and downward rapidly.

NOTE

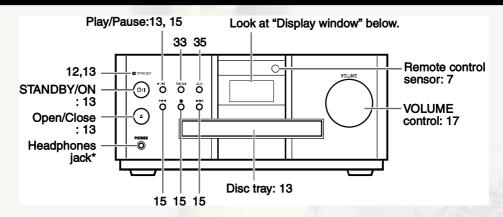
If you play back a PAL disc with this setting set to "NTSC".

You can watch the playback pictures, but the following symptoms may occur:

- The items on the disc menu will be blurred, and be shown slightly shifted when highlighted.
- The aspect ratio of the picture may differ from the original aspect ratio.
- The picture movement is not smooth.

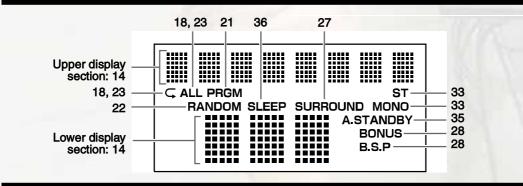
The numbers represent the page numbers.

Front panel

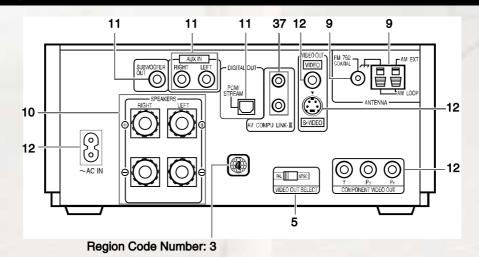


* Connect a pair of headphones (commercially available) with a stereo mini plug. If the headphones are connected, the speakers and subwoofer will not produce any sound.

Display window

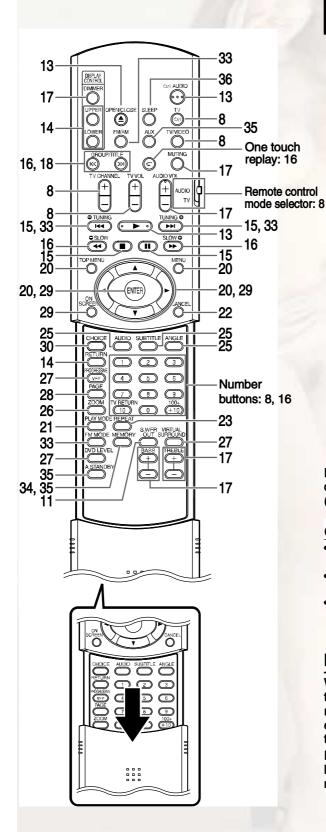


Rear panel

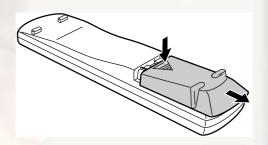


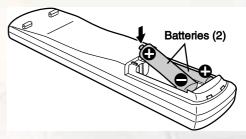
Using the remote control

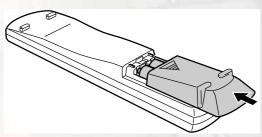
The numbers represent the page numbers.



Putting the batteries in the remote control







If the range or effectiveness of the remote control decreases, replace the batteries. Use two R6P (SUM-3)/AA(15F) type dry-cell batteries.

CAUTION

- Do not use a used battery and a new battery together.
- Do not use different types of batteries at the
- Take out the batteries if the remote control is not to be used for a long time. Otherwise it may cause a leakage.

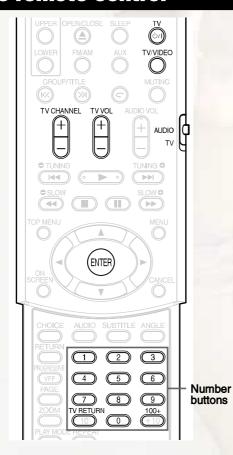
Remote control operation

When operating the remote control, point it towards the front panel of the main unit. If the remote control is operated from a direction that is extremely oblique or when there is an obstacle in the way, signals may not be transmitted.

If the remote control sensor is exposed to a strong light such as direct sunlight, correct operation may not be carried out.

This page is for when operating your TV using the remote control of this product.

Operating the TV using the remote control



Setting the manufacturer's code

Slide the remote control mode selector to the TV side.



2 Keep pressing down O/ITV.

NOTE

Keep pressing down O/I TV until Step 4 is complete.

3 Press ENTER and release.

4 Press number buttons (1-9, 0).

Examples:

For a Hitachi TV: Press 1, then 0. For a Toshiba TV: Press 0, then 8.

If there are more than one manufacturer's codes, try them in turn and select the one that causes the product to work properly.

Manufacturer	Code	Manufacturer	Code
JVC	01	Samsung	12
Hitachi	10	Sanyo	13
Magnavox	02	Sharp	06
Mitsubishi	03	Sony	07
Panasonic	04, 11	Toshiba	08
RCA	05	Zenith	09

NOTE

Manufacturer's codes may be changed without notice. You may not be able to operate a TV produced by the manufacturer shown above.

5 Release O/ITV.

For TV operation

Operate the remote control by pointing it towards the TV.

TV ©/J	Turn ON/OFF the power.	
TV CHANNEL	Change channels.	
TVVOL	Adjust volume.	
1 ~ 9 / 0 / +10	Select channels.	
TV RETURN	Alternates between the previously selected channel and the current channel.	
TV/VIDEO	Switch TV and video input.	

^{*1} Make sure to slide the remote control mode selector to the TV side in advance.

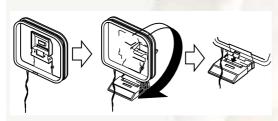
NOTE

When the batteries are replaced, perform the manufacturer's code setting again.

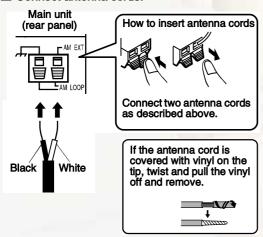
Connecting antennas

Connecting AM loop antenna (supplied)

Set up the AM loop antenna.

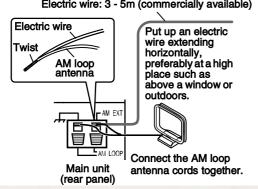


2 Connect antenna cords.

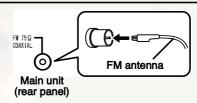


- 3 Turn the AM loop antenna to the direction of the best radio reception.
 - Locate the AM loop antenna as far away from the main unit as possible.
 - Do not locate the AM loop antenna on a metallic table or close to a TV, personal computer, etc. Otherwise it may result in bad radio reception.
- When good radio reception cannot be obtained with the supplied AM loop antenna

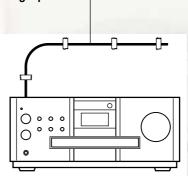
Electric wire: 3 - 5m (commercially available)



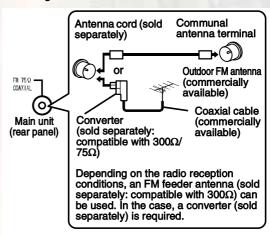
Connecting FM antenna (supplied)



Put the antenna up straight in the direction where the best radio reception can be obtained, and fix by using tape.



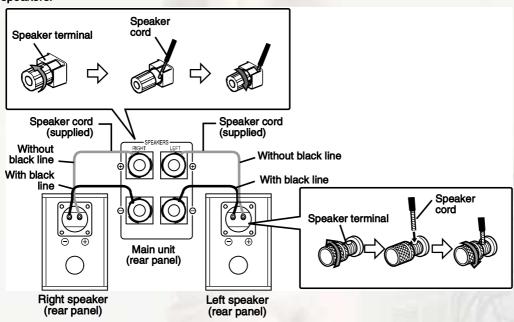
■ When good radio reception cannot be obtained with the supplied antenna or when using a communal antenna



For details of connecting a separately sold antenna, refer to the user guide for the antenna or converter.

Connecting speakers

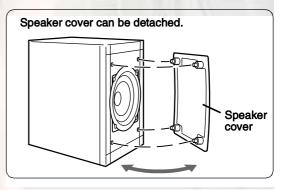
There is no difference between the left and right speakers.



CAUTION

- DO NOT connect more than one speaker to one speaker terminal.
- The speakers of this product are magnetically shielded, but color irregularities may occur on the TV depending on how the speakers are installed. Keep in mind the following.
 - Turn off the main power of your TV before installing the speakers. Wait for about 30 minutes before turning on the TV again.
 - If color irregularity occurs in pictures, keep a distance of more than 10 cm between the TV and the speakers.

The speakers employ natural wood for the diaphragm and the cabinet in order to reproduce the original sound faithfully. The appearance will therefore be different for each unit.



NOTE

- Impedance of speaker that can be connected to the main unit is within a range of 4Ω to 16Ω .
- In order to have a sufficient cooling effect, leave a space of more than 1cm between the main unit and the speakers or other objects.

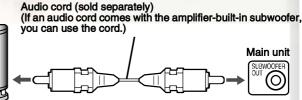
Connecting other devices

This page is for when connecting the main unit with other devices.

Connecting subwoofer

With an amplifier-built in subwoofer (sold separately), you can enjoy a more dynamic bass sound. Refer to the manual of the subwoofer for details.

Amplifier-built-in subwoofer (sold separately)

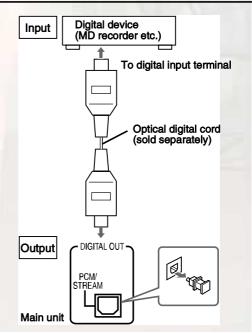


When you want to hear sound from the subwoofer, press **S.WFR OUT** on the remote control to display "SUB WFR ON" (Sub Woofer ON) on the display window on the main unit. Each time you press the button, the display toggles between "ON" and "OFF".

NOTE

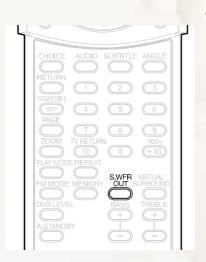
When "SUB WFR ON" is selected, bass sound from the left and right speakers will be automatically lowered and the bass sound will be emitted mainly from the subwoofer.

Connecting with a digital device

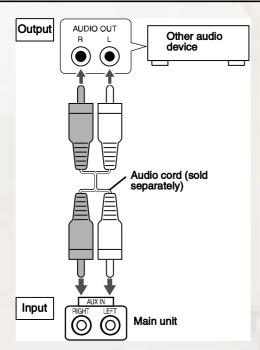


CAUTION

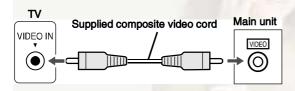
- For details of signals to be output, refer to page
- If connecting the main unit with equipment with the function of a Dolby Digital decoder, the setting in "D. RANGE COMPRESSION" of "AUDIO" (pp page 31) will be invalid regarding sound from the digital audio output of the main unit.



Connecting with other audio device



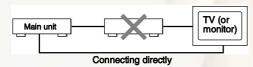
Connecting with TV



CAUTION

Connect the main unit directly with a TV (or a monitor) without routing through a VCR.

Otherwise it may cause picture distortion while playing.



Also, when connecting the main unit to a TV with a VCR built in, there may be picture distortion while playing.

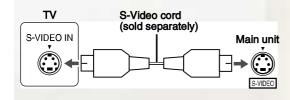
NOTE

Please check that the setting for VIDEO OUT SELECT (PAL / NTSC) on the rear panel of the main unit and the color system on your TV set are the same. (page 5)

When a clearer picture is desired

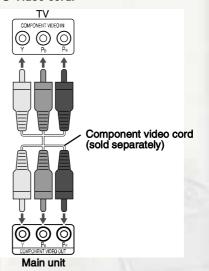
You can enjoy pictures of better quality using the following cord instead of the supplied video cord.

Connecting by using the S-Video cord



Connecting by using the component video cord

You can enjoy better quality pictures than when using the S-Video cord.



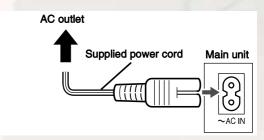
CAUTION

Use one of either the S-Video cord or the component video cord. If both cords are used, pictures may not be played properly.

NOTE

- In order to enjoy pictures with Progressive mode (page 27), the TV is required to have Progressive video input.
- If the component video input jacks of your TV are BNC type, use a plug adapter (not supplied) to convert the plugs.

Connecting the power cord

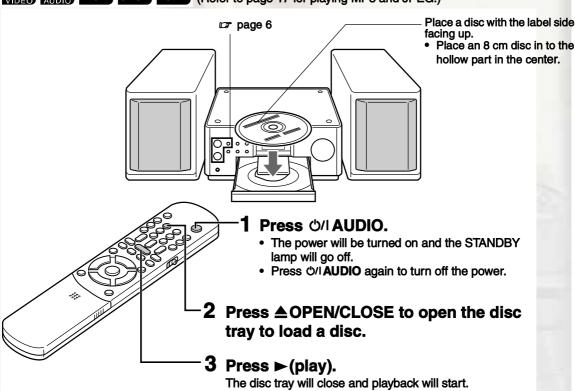


- Connect the power cord after all other connections are complete.
- The STANDBY lamp (on the front panel) will be lit.

Playing discs

Playback

DVD DVD VCD SVCD C D (Refer to page 17 for playing MP3 and JPEG.)



- The power will be turned on when any of O,
 O, O or (a) on the main unit and (b),
 - PMMM , AUX or OPENCLOSE on the remote control is pressed while the power is off.

If any button other than (a) or (b) is pressed, the source will also be changed (if there is a disc loaded, playback will start).

NOTE

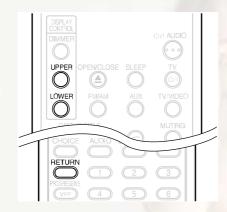
- A menu screen may be displayed after starting playback of a DVD. In this case, select a desired item to playback by using the following buttons on the remote control.
 - Select a desired item using
 press
 Press
 - Select a desired item using the number buttons.
- Depending on the disc, actual operation may be different from the description.



Screens displayed on the TV when the power is turned ON.

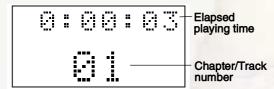
The following messages appear depending on the status of the system. (When FM/AM or AUX is selected as a source, the messages do not appear.)

NOW READING	Appears when the system is reading the disc information. Wait for a while.
REGION CODE ERROR!	Appears when the Region Code of the DVD does not match the code the system supports. (page 3)
NO DISC	Appears when no disc is loaded.
OPEN	Appears when opening the disc tray.
CLOSE	Appears when closing the disc tray.
CANNOT PLAY THIS DISC	Appears when trying to play back an unplayable disc.



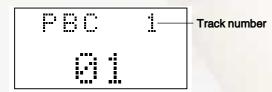
Display window during disc playback

Example: When a DVD VIDEO or DVD AUDIO is played



If "BONUS" or "B.S.P." is displayed during a DVD AUDIO playback, refer to page 28.

Example: When a SVCD or VCD is played

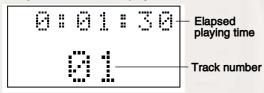


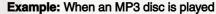
- PBC (Play Back Control): A signal recorded in a VCD (version 2.0) for controlling playback. It is possible to enjoy interactive software or software with a search function using a menu screen recorded in a PBC compatible VCD. To play a disc with the PBC function OFF, carry out the following operations.
 - Designate the track number using the number buttons while the disc is stopped.
 - Designate the track number using I

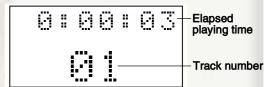
 while the disc is stopped, and then press

 ▶(play).
- Press RÉTURN to go back to the upper layer during the PBC playback of a VCD or SVCD.

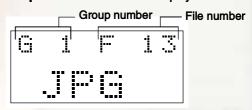
Example: When a CD is played







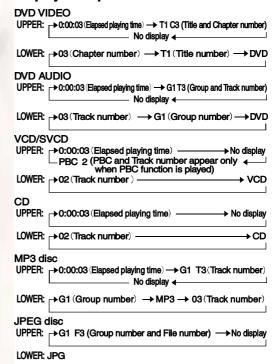
Example: When a JPEG disc is played



To switch the display

Press **UPPER** or **LOWER**. Each time you press the button, the display will be alternated.

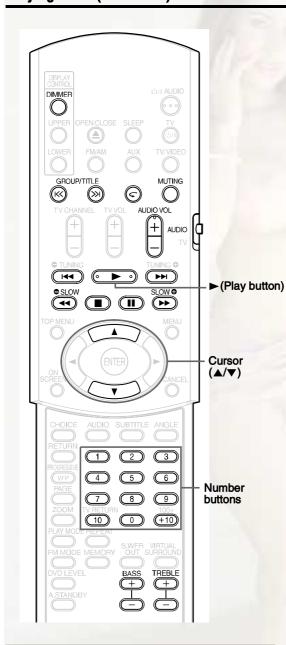
Display examples



NOTE

Abbreviations

G: Group
T: Title (DVD VIDEO)
Track (DVD AUDIO and MP3)
C: Chapter
F: File



Select what you want to play by using the number buttons

DVD DVD VCD SVCD C D MP3 JPEG

NOTE

- Set the remote control mode selector to
 AUDIO before using the number buttons.

 For a VCD or SVCD, this operation can be called.
- For a VCD or SVCD, this operation can be carried out when the disc is stopped, or during playback without the PBC function.
- For a DVD AUDIO, CD, MP3 or JPEG, this operation can also be carried out when the disc is stopped.
- This operation may not be carried out for some discs.

Designate the chapter number or track number to play during playback.

Refer to "How to use the number buttons" on page 16.

To stop playback

DVD DVD VCD SVCD C D MP3 JPEG

Press ■ during playback.

To pause playback

DVD DVD VCD SVCD C D MP3 JPEG

Press II during playback.

To resume normal playback, press ►(play).

- Press II to pause during JPEG disc slide-show.
 Press ► (play) to start playback from the next file.
- It is not possible to pause by pressing ►/II on the main unit during JPEG disc slide-show.

To advance picture frame-by-frame

DVD SVCD VCD

Press II during pause.

Each time you press the button, picture will be advanced frame-by-frame.

Fast reverse/Fast forward search

DVD DVD VCD SVCD C D

There are two methods.

• Press **◄** or **▶▶** during playback.

Each time you press the button, the speed increases (\times 2, \times 5, \times 10, \times 20, \times 60). To restore the normal speed, press \blacktriangleright (play).

Hold down I→→ or →→ .

Fast reverse/Fast forward search can be carried out only while the button is pressed ($\times 5 \rightarrow \times 20$).

NOTE

- Fast reverse/Fast forward search cannot be carried out for MP3 and JPEG.
- For a DVD VIDEO, SVCD or VCD, no sound comes out during fast reverse/fast forward search.
- For a CD or DVD AUDIO, sound is intermittent during fast reverse/fast forward search.

Playing back from a position 10 seconds before (One Touch Replay)

DVD

Press c during playback.

- This operation may not be carried out for some
- It is not possible to go back to the immediately previous title.

Slow Motion Playback

DVD VCD SVCD

Press SLOW or SLOW during pause.

- Each time you press the button, the speed increases.
- Press II to pause playback, and press ►(play) to resume normal playback.

NOTE

- No sound will be produced.
- The picture motion in the reverse direction may not be smooth.
- For a VCD or SVCD, Slow Motion Playback can be carried out in the forward direction only.

Skip to the beginning of the selection

DVD DVD VCD SVCD C D MP3 JPEG

Press **◄◄** or **▶▶** during playback*.

- · Each time you press the button, the previous or next beginning of chapter/track/file to the current position will be skipped to.
- Press I◄◄ once to skip back to the beginning of the chapter or track currently being played (except for JPEG).
- Press GROUP/TITLE ≫ or ⋉ to select the title or group.
- During playback of a JPEG disc, press ▶► or cursor ▼ to play the next file, or press I◄◄ or cursor▲ to play the previous file.

NOTE

- For a VCD or SVCD, this operation can be carried out during playback without the PBC function.
- Except for a DVD VIDEO, this operation can also be carried out while the disc is stopped.
- This operation may not be carried out for some discs.

How to use the number buttons

Examples:

5: 5

15: (+10) → (5)

20: (+10) → (10)

25: $(+10) \rightarrow (+10) \rightarrow (5)$



Guide icons displayed on the TV screen (On-screen guide)

: Plav



: Pause



: Fast reverse/Fast forward search



: Slow Motion Playback (reverse/ forward directions)



: Containing multi-angle views (**□** page 25)



Containing multi-audio languages (cr page 25)



: Containing multi-subtitle languages (**□** page 25)



: The disc cannot accept the operation you have attempted.

Playing MP3 and JPEG discs

To change the brightness of the display window (DIMMER)

Press DIMMER repeatedly.

 The modified brightness will be stored even after the power is turned off.

The items below can be carried out for all sources.

Adjusting the volume

Press AUDIO VOL +/-.

NOTE

The volume can be adjusted by turning the VOLUME control on the main unit.

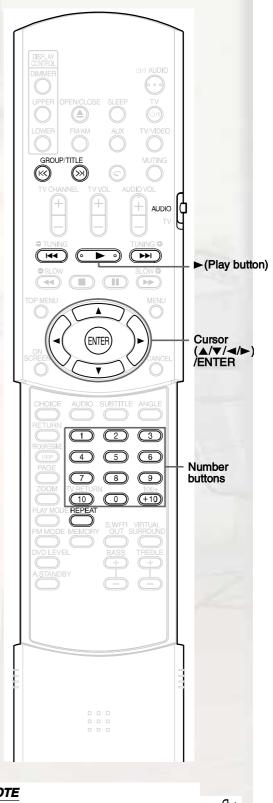
Adjusting sound quality

Bass: Press BASS +/-. Treble: Press TREBLE +/-.

Turning off the sound temporarily (MUTING)

Press MUTING.

- No sound will come out from the speakers, headphones and the subwoofer.
- Press MUTING again to restore the sound. When the power is tuned off once and turned on again, the sound will be restored.



NOTE

Set the remote control mode selector to AUDIO before using the number buttons.

Playback

MP3 JPEG

Display of an MP3 disc is described here as an example.

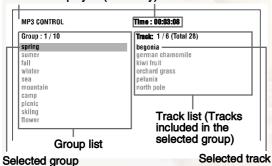
For a JPEG disc, read "track" as "file".

NOTE

When playing a disc containing both MP3 and JPEG files, set one of them to be played (page 30).

1 Load a disc.

TV screen Elapsed time of the track currently being played (MP3 only).



2 Press cursor ▲/▼ to select a group.

3 Press cursor ► to move to the track list.

4 Press cursor ▲/▼ to select a track.

5 Press ►(play) or ENTER.

NOTE

- GROUP/TITLE KK, >> can also be used in Step 2.
- The number buttons can also be used in Step 4. In this case, Steps 3 and 5 are not needed. (For how to use the number buttons, refer to page 16).
- Idd or In this case, Step 3 is not needed.

Repeat playback

MP3 JPEG

Press REPEAT while the disc is stopped.

Each time you press the button, the Repeat type will be alternated.

Repeat types	Display on the TV screen	Display on the display window on the main unit
Repeats the current track (only for MP3).	REPEAT TRACK	
Repeats the current group.	REPEAT GROUP	C) ALL(<*
Repeats the entire disc.	REPEAT ALL	Ģ ALL
Cancels repeat.	No display	No display
Repeats the current track during a Program or Random Playback (only for MP3).	REPEAT STEP	G
Repeats all programmed tracks or the all tracks for Random play (only for MP3).	REPEAT ALL	Ç ALL

* > represents blinking.

2 Press ►(play).

NOTE

- The Repeat types can be changed during playback.
- The Repeat mode will be automatically cancelled if there is a file that cannot be played (page 3).

Slide-Show Playback JPEG

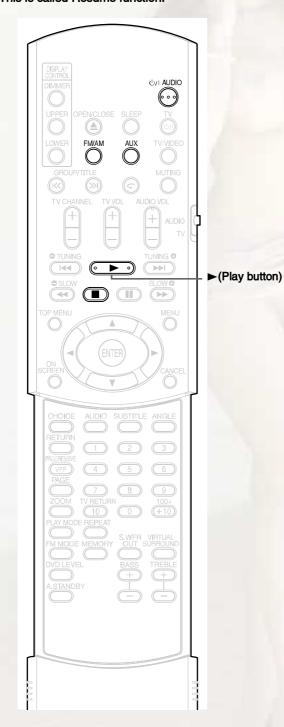
- In Step 5, for a JPEG disc, when ►(play) is pressed, files will be continuously played from the selected file (Slide-Show Playback), and when ENTER is pressed, only a selected file will be played.
- Display time for a file in Slide-Show Playback is about 3 seconds.
- When all files are played through, the playback will be automatically stopped.

Resume Playback

DVD DVD VCD SVCD

When playback is stopped in the middle, playback can be started from the stopped scene.

This is called Resume function.



How to suspend playback

Perform any of the following operations during playback.

Press ■ once.*

Press O/I AUDIO to turn off the power.

Change the source to FM/AM or AUX.*

* Even if the power is turned off by pressing O/IAUDIO after this, the position where playback has been stopped will be stored.

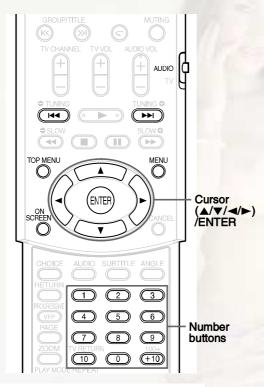


To start playback from the stored position

Press ►(play).

NOTE

- This function does not work in Program Playback or Random Playback.
- The position where playback starts again may be a little different from the stopped position.
- When a disc menu is displayed, the Resume function may not work.
- The audio language, the subtitle language and the angle at that time are stored as well as the stopped position.
- The stored position will be cleared if the disc tray is opened. Further, if ■ is pressed during playback, "RESUME" will be displayed. If ■ is pressed at this time, "RESUME OFF" will be displayed and the stored information will be cleared.
- At the time of purchase, Resume is set to ON. Resume can be set to OFF (page 31).



NOTE

Set the remote control mode selector to **AUDIO** before using the number buttons.



Select from the menu

DVD DVD AUDIO VCD SVCD

- Press MENU or TOP MENU while the disc is stopped or during playback*1.
 - The disc menu screen will be displayed.
 - Only TOP MENU can be used for DVD AUDIOs.
- 2 Press cursor ▲/▼/◄/►(only for a DVD VIDEO or DVD AUDIO) or the number buttons to select the scene to be played.
 - Refer to "How to use the number buttons" (pr page 16).
 - When the menu screen has a couple of pages, press I→→I to change the page (only for a VCD and SVCD).

3 Press ENTER.

NOTE

*1 For a VCD and SVCD, this operation can be carried

- out only when the PBC function is off.
- This operation cannot be carried out for a disc without a menu screen.
- Playback may start for some discs without pressing ENTER.

Designate the time (Time search)

DVD DVD VCD SVCD C D

Press ON SCREEN twice during playback*2.

The menu bar will be displayed (pp page 29).

- **3** Press ENTER.
- 4 Input the time^{*3} using the number buttons (1-9, 0).

Example: When you want to play a DVD VIDEO from the position of (0 hour) 23 minutes 45 seconds, press the buttons in the order:



"minutes" and "seconds" can be omitted.

If you input wrong numbers, press cursor to delete the numbers and re-input.

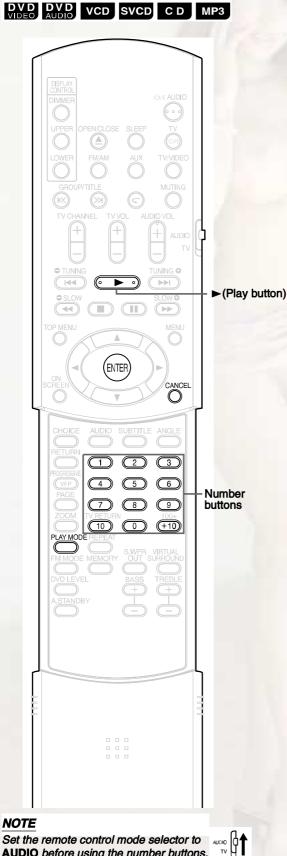
5 Press ENTER.

To delete the menu bar, press ON SCREEN.

NOTE

- This function does not work for a DVD VIDEO with no time information recorded.
- This function does not work during Program or Random Playback.
- *2 For a CD, this operation can always be carried out, while, for a VCD and a SVCD, the operation can be carried out when the disc is stopped or during playback without the PBC function.
- ** Time search for a DVD VIDEO is from the beginning of the title, for a DVD AUDIO from the beginning of the track being played. Time search for a VCD, a SVCD and a CD is as follows:
 - When the disc is stopped, time search is from the beginning of the disc.
- When the disc is being played, time search is within the track currently being played.

Program Playback/Random Playback



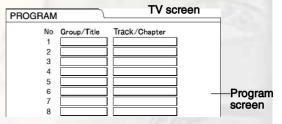
Play the disc in the desired order (Program Playback)

It is possible to program a maximum of 99 tracks or chapters. The same track or chapter can be programmed more than once.

While the disc is stopped, press **PLAY MODE repeatedly to** display "PRGM" on the display window on the main unit.

"PRGM" is an abbreviation for PROGRAM.

Example: For DVD VIDEO



Create a program following the description on the TV screen.

> Refer to "How to use the number buttons" (**□** page 16).

- The input content varies depending on the disc type.
 - DVD VIDEO: Titles and chapters
 - VCD, SVCD, CD: Tracks
 - DVD AUDIO, MP3: Groups and tracks
- To select a DVD AUDIO bonus group, carry out the operations of "Playing the Bonus Group" on page 28 in advance to erase the display "BONUS".
- If the number of tracks or chapters input is greater than 99, "FULL" will be displayed.
- In the case of a CD, SVCD or VCD, when the total playback time reaches 9 hours 59 minutes 59 seconds, "--:-" will be displayed on the display window (It is possible to continue programming).

AUDIO before using the number buttons.



To program on the display window on the main unit, operate as follows.

- Select a group/title using the number buttons.
 Display example of the upper display window: T2 C--
- (2) Designate a track/chapter number using the number buttons.

Display example of the upper display window: T2 C3

- Refer to "How to use the number buttons" (pr page 16).
- The program number will be displayed on the lower display window (Example: "P2").
- (3) Repeat the above operations (1) and (2) to complete the program. Then, advance to Step 3.

NOTE

(Only for a DVD VIDEO, a DVD AUDIO or an MP3) If you press ENTER instead of designating a track/ chapter number, "ALL" is displayed and all of the tracks/chapters included in the selected group/title are programmed.

3 Press ►(play).

- To resume normal playback, press PLAY MODE repeatedly to display "NORMAL" on the display window on the main unit while the disc is stopped. The program content will not be erased.
- The following operations erase the program content.
 - Hold down CANCEL until "CLEAR!"
 appears on the display window with the
 program preference screen displayed (if
 CANCEL is pressed and released
 quickly, programs will be erased one by
 one).
 - Open the disc tray
 - · Turn off the power

Playing the disc in a random order (Random Playback)

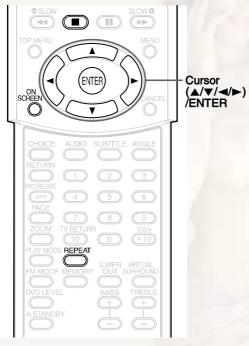
- Press PLAY MODE repeatedly to display "RANDOM" on the display window on the main unit while the disc is stopped.
 - "RANDOM" will also be displayed on the TV screen.

2 Press ►(play).

- The same chapter or track will not be played twice.
- To resume normal playback, press PLAY MODE repeatedly to display "NORMAL" on the display window on the main unit while the disc is stopped.
- Random Playback will also be cancelled by carrying out the following operations.
 - Open the disc tray
- Turn off the power
- The previous track will not be returned to even if I◄◄ is pressed repeatedly during Random Playback (the beginning of the current chapter or track will be returned to).

Repeat Playback

Refer to page 18 for Repeat Playback of MP3 and JPEG files.



Playing the title/chapter/ group/track/all tracks repeatedly (REPEAT

DVD DVD VCD SVCD C D

Press REPEAT during playback.

Each time you press the button, the Repeat type will be alternated.

Example:

Display window on the main unit TV screen CHAP

 \subseteq

For DVD VIDEO

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current chapter	CHAP.	Ç
Repeats the current title	TITLE	C)ALL(<*
Cancels repeat	Č)OFF	No display

For DVD AUDIO

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current track	TRACK	U
Repeats the current group	GROUP	¢àll(<*
Cancels repeat	OFF	No display

* > represents blinking.

For CD/VCD/SVCD

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current track	TRACK	Ç
Repeats all tracks	(*) ALL	Ģ ALL
Cancels repeat	Č)OFF	No display

NOTE

- For a DVD AUDIO and CD, this operation can always be carried out, while, for a VCD and SVCD, the operation can be carried out when the disc is stopped or during playback without the PBC function.
- It is possible to set Repeat on the menu bar. For how to operate, refer to "Playing the designated part repeatedly (A-B Repeat Playback)"(page 24).
- · The abbreviations displayed on the main unit are as follows.

TRK: Track CHP: Chapter TI. : Title GR.: Group

· For a DVD VIDEO and DVD AUDIO, if the source is switched to FM/AM or AUX, the Repeat mode will be

Repeat Playback during Program or Random Playback

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current chapter or track	STEP or REPEAT STEP	C.
Repeats all programmed tracks or all the tracks in Random Playback	ALL or REPEAT ALL	⊊ ALL
Cancels repeat	OFF or No display	No display

Playing the designated part repeatedly (A-B Repeat Playback)

DVD DVD VCD SVCD C D

Press ON SCREEN twice during playback.

The menu bar (page 29) will be displayed.

- Press cursor
 />to select
- 3 Press ENTER.
- 4 Press cursor ▲/▼to display

A-B

Other Repeat modes can be selected here. For other Repeat modes, refer to "Playing the title/chapter/group/track/all tracks repeatedly (REPEAT)" (LF page 23).

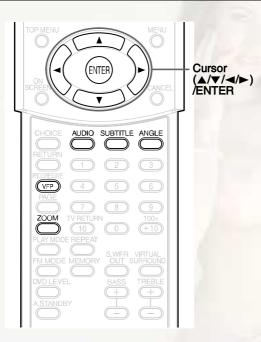
- 5 Press ENTER at the start point of the part to be repeated (designating A point).
 - The icon on the menu bar will be 🗠 🛋 .
- 6 Press ENTER at the end point of the part to be repeated (designating B point).

 - A-B Repeat Playback will be cancelled by carrying out the following operations.
 - Press ■.
 - Select 🗠 A-B and press ENTER twice.

NOTE

A-B Repeat Playback is possible only within the same title or track. A-B Repeat Playback cannot be carried out during PBC playback, Program Playback, Random Playback and Repeat Playback.

Other convenient functions



Selecting the subtitles

DVD SVCD DVD

(only for moving image)

Press SUBTITLE during playback of a disc containing subtitles in several languages.

Example:



- Each time you press the button, the subtitle will be alternated between ON/OFF.
- 2 Press cursor ▲/▼to select a subtitle language.
 - For a language code such as "AA", refer to "Language codes" (127 page 39).
 - The manner of displaying subtitle languages may be different depending on the disc.
- 3 Wait for a few seconds or press ENTER.

NOTE

- It is possible to operate by using the menu bar (page 29).
- For a SVCD, each time you press SUBTITLE in Step 1, the subtitle type and ON/OFF will be alternated.

Selecting the audio language

DVD DVD VCD SVCD

Press AUDIO during playback of a disc containing several audio languages.

Example:



- Each time you press the button, the audio language will be alternated. Also, the audio language can be changed by pressing cursor ▲/▼.
- For a language code such as "AA", refer to "Language codes" (

 page 39).
- "ST", "L" and "R" displayed when playing a VCD or SVCD respectively represent "Stereo", "left sound" and "right sound".
- **2** Wait for a few seconds or press ENTER.

NOTE

It is possible to operate by using the menu bar (page 29).

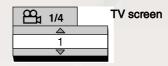
Selecting a view angle

DVD DVD

(only for moving image)

Press ANGLE during playback of a scene containing multi-view angles.

Example:



- Each time you press the button, the angle will be alternated. Also, the angle can be changed by pressing cursor ▲/▼.
- 2 Wait for a few seconds or press ENTER.

NOTE

It is possible to operate by using the menu bar (page 29).

Enlarging the picture (ZOOM)

DVD VCD SVCD JPEG DVD AUDIO

(only for moving image)

- Press ZOOM during playback or while paused.
 - Each time you press the button, the picture magnification will be changed.
 - (For a JPEG) You cannot change the picture magnification during slide-show playback.
- 2 Select the portion you want to see by using cursor ▲/▼/◄/►.
 - To resume normal playback, select "OFF" in Step 1.

Adjusting the picture quality (VFP)

DVD DVD VCD SVCD JPEG

Press VFP during playback or while paused.

"VFP SET" will appear on the display window on the main unit and the current setting will be displayed on the TV screen.

0
0
0
0
0
0

- Gamma: Controls brightness of neutral tints while maintaining brightness of dark and bright portions.
- Sharpness: Controls screen sharpness.

2 Press cursor /▶ to select VFP mode.

- It is recommended to select "NORMAL" usually, or "CINEMA" in a dark room. When either "NORMAL" or "CINEMA" is selected, go to Step 7.
- When either "USER 1" or "USER 2" is selected, the adjustment can be carried out in detail in the operations after Step 3.

- 3 Press cursor ▲/▼to select an item to be adjusted.
- 4 Press ENTER.

Example: TV screen

GAMMA

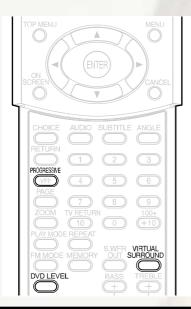
O

- 5 Press cursor ▲/▼to change the value.
- **6** Press ENTER.

 To adjust other items, go back to Step 3.
- 7 Press VFP.

NOTE

- If no operation is made for several seconds during the procedure, the settings made so far will be automatically stored.
- "VFP" is an abbreviation of "Video Fine Processor".



Creating realistic sound (VIRTUAL SURROUND)

DVD DVD VCD SVCD C D MP3

The two speakers produce an effect resembling surround-sound.

Press VIRTUAL SURROUND during playback.

Example:

TV screen

VIRTUAL SURROUND

OFF

 Each time you press the button, the display toggles as follows.

→ ACTION ↓

: Suitable for action movies, sport programs or other lively programs.

DRAMA : Y

: You can relax with a natural atmosphere.

1

THEATER: You can enjoy the sound effect as if you were watching the movie in a

•OFF

: Cancels VIRTUAL SURROUND (factory setting).

 While VIRTUAL SURROUND is activated, "SURROUND" appears on the display window.

theater.

NOTE

- Virtual Surround is effective for the speakers and headphones.
- When noise is produced or sound is distorted, set VIRTUAL SURROUND to "OFF".
- You cannot operate some types of DVD AUDIO discs.
- "V.SUR." displayed on the display window is an abbreviation of "Virtual Surround".

Adjusting playback level (DVD LEVEL)

DVD DVD

The audio of a DVD VIDEO and DVD AUDIO may be recorded at a lower level (volume) than for other types of disc. If the difference is not to your liking, adjust the DVD Level.

Press DVD LEVEL during playback.

- Each time you press the button, the level will be alternated among "NOR" (Normal), "MID" (Middle) and "HIG" (High).
- Select the level while listening to the sound played.

NOTE

- DVD Level is effective only for playback of a DVD.
- Even if the DVD Level is changed, the output level from the digital audio output terminal will not be changed.
- This operation can be carried out while the disc is stopped or paused.

Enjoying better pictures (PROGRESSIVE)

In the Progressive mode, better pictures can be enjoyed.

CAUTION

- In order to enjoy pictures in the Progressive mode, the following requirements should be met.
- There must be a component video input terminal on the TV set connected to the main unit.
- The main unit and the TV set must be connected using a component video cord (
 page 12).
 When the above requirements are not satisfied, leave the main unit in the interlace mode. If the
- Progressive mode is set, pictures may be distorted.
 When the VIDEO OUT SELECT switch is set to PAL, there will be no PROGRESSIVE output to the component video terminal.

NOTE

Progressive mode:

All scanned lines will be displayed at once. Pictures of higher resolution than those in the Interlace mode can be realized.

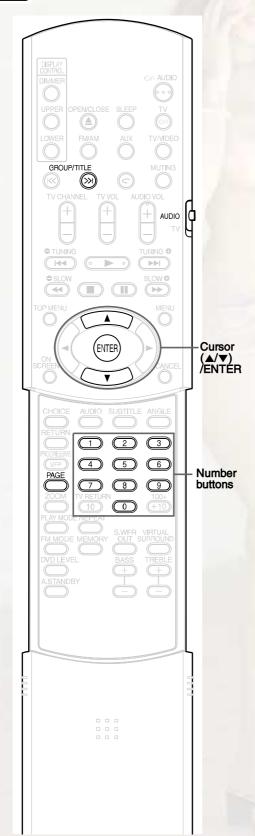
Interlace mode:

This is a conventional image method. Half of the scanned lines displayed in the Progressive mode will appear, alternating with the other half.

Display "PROGRESS" by holding down PROGRESSIVE during playback or while the disc is stopped, or when there is no disc loaded.

- Each time you hold down the button, the mode will be alternated between the Progressive mode and the Interlace mode.
- The display window displays "PROGRESS" when in the Progressive mode, and "INTER." when in the Interlace mode.





NOTE

Set the remote control mode selector to AUDIO before using the number buttons.

Playing the Bonus Group

There are some DVD AUDIO discs with a special group, called "Bonus Group", recorded.

NOTE

This operation can be carried out when "BONUS" is lit on the display window on the main unit.

- Press GROUP/TITLE >> repeatedly during playback to select a bonus group.
 - "KEY____" appears on the TV screen, and on the display window on the main unit.
- 2 Press the number buttons to enter a pin code (4 digits).

The method of getting a pin code may be different depending on the disc.

- **3** Press ENTER.
 - When a correct pin code is entered, "BONUS" disappears and the playback of the bonus group starts.
 - If an incorrect pin code is entered, try entering a correct pin code again.

Browsable Still Pictures (B.S.P.)

There are some DVD AUDIO discs with still pictures recorded. Among the still pictures, there are pictures called B.S.P. (Browsable Still Pictures). With these pictures, it is possible to switch a picture as if turning over pages.

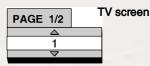
NOTE

This operation can be carried out when "B.S.P." is lit on the display window on the main unit.

Press PAGE during playback.

Each time you press the button, the still picture will be switched over. It is also possible to switch the picture using cursor ▲/▼.

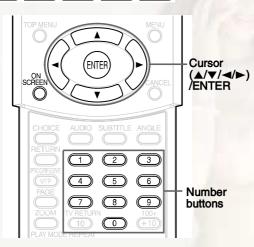
Example:



2 Wait for a few seconds or press ENTER.

Using the menu bar

DVD DVD VCD SVCD CD



NOTE

- Set the remote control mode selector to AUDIO before using the number buttons.

 Ty
- This operation can be carried out when there is a disc loaded. There are some functions that may not work while the disc is stopped.

1 Press ON SCREEN twice.

"ON SCREEN" will appear on the display window on the main unit. The status bar and the menu bar will appear on the TV screen.



The above is an example for a DVD VIDEO.

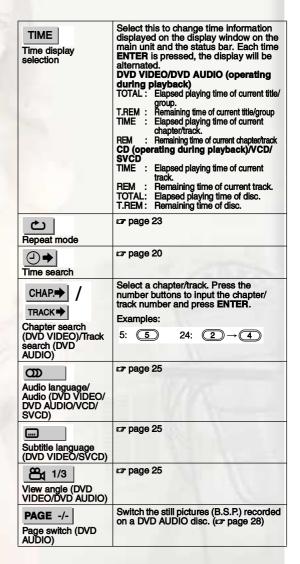
2 Press cursor </ > /> to select an item to be operated.

3 Press ENTER.

- The selected function can be set. For the setting content, refer to the following "Functions list".
- The currently active function shows blue.
- To delete the menu bar, press ON SCREEN.

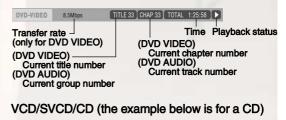
Functions list

For the functions with no special description for the operations, press cursor▲/▼to select, and press ENTER to determine.



Information displayed on the status bar

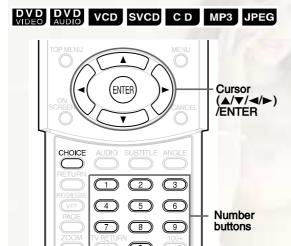
DVD VIDEO/DVD AUDIO (the example below is for a DVD VIDEO)





NOTE

The playback status mark has the same meaning of the mark on the On-screen guide (page 16).



The initial settings of the system can be changed according to the environment the system is used in.

NOTE

- Set the remote control mode selector to
 AUDIO before using the number buttons.
- The top and bottom of the preference screen may not be displayed on a wide TV. Adjust the picture size on the TV.

Basic operations

- Press CHOICE while the disc is stopped or no disc is loaded ("NO DISC" is displayed).
 - "SETTING" will appear on the display window on the main unit and the following screen will be displayed on the TV.

MENU LANGUAGE	ENGLISH	
AUDIO LANGUAGE	ENGLISH	
SUBTITLE	ENGLISH	
ON SCREEN LANGUAGE	ENGLISH	$\overline{}$

 Proceed with operations by following the description on the TV screen.



LANGUAGE

NOTE

- If the selected language is not recorded on the disc, the optimum language set for the disc will be displayed.
- For a language code such as "AA", refer to the "Language codes" (
 page 39).

Items	Contents
MENU LANGUAGE	Select the language for the DVD VIDEO menu.
AUDIO LANGUAGE	Select the audio language for the DVD VIDEO.
SUBTITLE	Select the subtitle language for the DVD VIDEO.
ON SCREEN LANGUAGE	Select the language displayed on the preference screens.



PICTURE

~	
Items	Contents (: initial setting)
MONITOR TYPE	Select a display method suitable for your TV. 16: 9 NORMAL: Select this when the aspect ratio of your wide TV is fixed to 16:9 (when playing a DVD VIDEO recorded at 4:3, the system automatically adjusts the screen width of the output signal). 16: 9 AUTO: Select this when your TV is an ordinary wide
	TV.
	4: 3 LB (Letter Box): Select this when the aspect ratio of your TV is conventional 4:3. While viewing a wide screen picture, the black bars appear on the top and bottom of the screen.
	4: 3 PS (Pan Scan): Select this when the general ratio of your TV is
	Select this when the aspect ratio of your TV is conventional 4:3. While viewing a wide screen picture, the left and right edges of the picture will not be shown on the screen. (If the disc is not compatible with Pan Scan, the picture will be displayed at the Letter Box ratio.)
PICTURE SOURCE	Select an item suitable to the video source. AUTO: The video source type (a video or film) is automatically selected. FILM: Select this item when you want to view a film or video recorded with the progressive scan method. VIDEO: Select this item when you want to view a normal video.
SCREEN SAVER	Select the Screen Saver mode between ON / OFF (Screen Saver activates when there is no operation made for about 5 minutes since a still picture was last displayed).
MP3/JPEG	If there are both MP3 and JPEG files on a disc, you can select which files to play. When the preference has been changed, open/close the tray and turn on the power again. (A disc with only one of MP3 file or JPEG file recorded can be played regardless of this preference.)



AUDIO

	and the second		
Items	Contents (: initial setting)		
DIGITAL AUDIO OUTPUT	Select an output signal type from the following in accordance with the device connected to the digital audio output terminal (AV amplifier, etc.). (See the list below for the preference items and output signal.)		
	PCM ONLY: Device corresponding only to linear PCM.		
	DOLBY DIGITAL/PCM: Dolby digital decoder or a device having the same function.		
	STREAM/PCM: DTS/Dolby digital decoder or a device having the same function.		
DOWN MIX	Switch signal from the digital output terminal of the DVD VIDEO according to the connected device. Select this when Digital Audio Output is set to "PCM ONLY".		
	DOLBY SURROUND: A Dolby Pro Logic decoder-built-in device.		
	STEREO: An ordinary device.		
	When Virtual Surround is ON, Down Mix does not work.		
D (Dynamic). RANGE COMPRESSION	To make adjustments for the difference between a high volume and a low volume when playing back with low volume (only for a DVD recorded with Dolby digital).		
	AUTO: D. Range Compression automatically works.		
	ON: D. Range Compression always works.		



OTHERS

Items	Contents (initial catting)
	Contents (: initial setting)
RESUME	Select ON /OFF. (127 page 19)
ON SCREEN GUIDE	Select ON /OFF. (127 page 16)
AV	(r page 37)
COMPULINK MODE	DVD1: Connect to the video-3 input on the TV set or the DVD input on the AV amplifier.
	DVD2: Connect to the video-1 input of the TV set.
	DVD3: Connect to the video-2 input of the TV set.
PARENTAL LOCK	Set the Parental Lock function to cut off violent scenes or replace the scenes with others. (This is effective only for discs equipped with the Parental Lock function.)
A	COUNTRY CODE (page 32) Select your country.
10	SET LEVEL: The restriction is stricter as the number becomes smaller. "NONE" is no restriction.
	PASSWORD (essential): Enter four-digit number as your password using the number buttons (1-9, 0) every time. (Enter "8888" if you forget your password.) The password is required at the time of playback.
	If you enter a wrong password three times, "EXIT" will be automatically selected.

List of relationships of DIGITAL AUDIO OUTPUT preference items and output signal

Distributed disc	DIGITAL AUDIO OUTPUT preference		
Playback disc	Stream/PCM	DOLBY DIGITAL/PCM	PCM only
48 kHz, 16/20/24 bits Linear PCM DVD VIDEO 96 kHz linear PCM DVD VIDEO	48 kHz, 16 bits stereo linear PCM		
48/96/192 kHz, 16/20/24 bits linear PCM DVD AUDIO	48 kHz, 16 bits stereo linear PCM 44.1 kHz, 16 bits stereo linear PCM		
44.1/88.2/176.4k Hz, 16/20/24 bits linear PCM DVD AUDIO			
DTS DVD VIDEO	DTS bit stream 48 kHz, 16 bits stere		stereo linear PCM
DOLBY DIGITAL DVD VIDEO/ DVD AUDIO	DOLBY DIGITAL bit stream 48 kHz, 16 bits stereo li PCM		48 kHz, 16 bits stereo linear PCM
CD/VCD/SVCD	44.1 kHz, 16 bits stereo linear PCM/48kHz, 16 bits linear PCM		
DTS CD	DTS bit stream 44.1 kHz, 16 bits linear PCM No output		
MP3 disc			

• For a DVD VIDEO without content protection set, there is a 20 bit or 24 bit output at the digital audio output

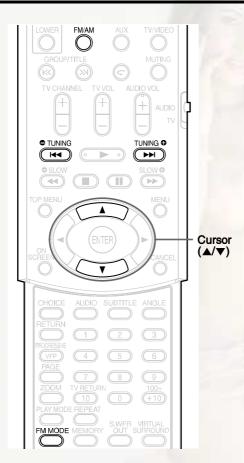
AD Andorra AE United Arab Er AF Afghanistan AG Antigua and Bi AL Albania AM Armenia AN Netherlands Ai AO Angola AQ Antarctica AR Argentina AS American Sam AT Austria AU Australia	arbuda
AF Afghanistan AG Antigua and Bi AI Anguilla AL Albania AM Armenia AN Netherlands Ai AQ Angola AQ Antarctica AR Argentina AS American Sam AT Austria	arbuda
AG Antigua and Bi Al Anguilla AL Albania AM Armenia AN Netherlands Ai AO Angola AQ Antarctica AR Argentina AS American Sam AT Austria	ntilles
Al Anguilla AL Albania AM Armenia AN Netherlands Al AO Angola AQ Antarctica AR Argentina AS American Sam AT Austria	ntilles
Al Anguilla AL Albania AM Armenia AN Netherlands Al AO Angola AQ Antarctica AR Argentina AS American Sam AT Austria	ntilles
AL Albania AM Armenia AN Netherlands Al AO Angola AQ Antarctica AR Argentina AS American Sam AT Austria	
AM Armenia AN Netherlands Ai AO Angola AQ Antarctica AR Argentina AS American Sam AT Austria	
AN Netherlands Al AO Angola AQ Antarctica AR Argentina AS American Sam AT Austria	
AO Angola AQ Antarctica AR Argentina AS American Sam AT Austria	
AQ Antarctica AR Argentina AS American Sam AT Austria	oa
AR Argentina AS American Sam AT Austria	oa
AS American Sam AT Austria	oa
AS American Sam AT Austria	oa
AT Austria	oa -
ALJ Australia	
AW Aruba	
AZ Azerbaijan	
BA Bosnia and	
Herzegovina	
BB Barbados	
BD Bangladesh	
BE Belgium	
BF Burkina Faso	
BG Bulgaria	
BH Bahrain	
BJ Benin	
BM Bermuda	
BN Brunei Darussa	alam
BO Bolivia	
BR Brazil	
BS Bahamas	
BT Bhutan	
BV Bouvet Island	
BW Botswana	
BY Belarus	
BZ Belize	
CA Canada	
CC Cocos (Keeling	٠,
1 1 7	"
Islands	
CF Central African	
Republic	
CG Congo	
CH Switzerland	
CI Côte d'Ivoire	
CK Cook Islands	
CL Chile	
CM Cameroon	
CN China]
CO Colombia	
CR Costa Rica	
CV Cape Verde	
CX Christmas Islar	nd
CY Cyprus	
CZ Czech Republi	С
DE Germany	
DJ Djibouti	
DK Denmark	
DM Dominica	
DO Dominican Rep	oublic
DZ Algeria	
EC Ecuador	
EE Estonia	
EG Egypt	
EH Western Sahar	a
ER Eritrea	

ES	Spain	
ET	Ethiopia	
FI	Finland	
FJ	Fiji	
FK	Falkland Islands	
110	(Malvinas)	
FM Micronesia		
1 141	(Federated States of)	
FO	Faroe Islands	
FR	France	
FX	France, Metropolitan	
GA	Gabon	
GB	United Kingdom	
GD	Grenada	
GE	Georgia	
GF	French Guiana	
GH	Ghana	
GI	Gibraltar	
GL	Greenland	
GM GN	Gambia Guinea	
GP		
	Guadeloupe	
GQ	Equatorial Guinea	
GR	Greece	
GS	South Georgia and	
	the South Sandwich	
ОТ.	Islands	
GT	Guatemala	
GU	Guam	
GW	Guinea-Bissau	
GY	Guyana	
HK	Hong Kong	
НМ	Heard Island and	
LIKI	McDonald Islands	
HN	Honduras	
HR	Croatia	
HT	Haiti	
HU ID	Hungary Indonesia	
IE	Ireland	
	Israel	
IL INI	India	
IN IO	British Indian Ocean	
Ю		
10	Territory	
IQ IR	Iraq Iran (Islamic Republic of)	
IS IS	Iceland	
IT	Italy	
	Jamaica	
JM	Jamaica	
JO I P		
JP KE	Japan	
KE	Kenya	
KG KH	Kyrgyzstan Cambodia	
KI		
KM	Kiribati	
KN	Comoros Saint Kitts and Nevis	
KP		
IM	Korea, Democratic People's Republic of	
KR	Korea, Republic of	
KW	Kuwait	
KY		
KZ	Cayman Islands	
LA	Kazakhstan Lao People's	
LA	Democratic Republic	
	Democratic nepublic	

	Soint Lucio
LC	Saint Lucia Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libyan Arab
	Jamahiriya
MA	Morocco
МС	Monaco
MD	Moldova, Republic of
MG	Madagascar
МН	Marshall Islands
ML	Mali
ММ	Myanmar
MN	Mongolia
МО	Macau
MP	Northern Mariana
	Islands
MQ	Martinique
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC	New Caledonia
NE	Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
NP	Nepal
NR NU	Nauru Niue
NZ	New Zealand
OM	_
PA	Oman Panama
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and
	Miquelon
PN	Pitcairn
PR	Puerto Rico
PT	Portugal
PW	Palau
PY	Paraguay
QA	Qatar
RE	Réunion
RO	Romania
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
	Cavaballas
SC	Seychelles

0.5	Cudan	
SD	Sudan	
SE	Sweden	
SG	Singapore	
SH	Saint Helena	
SI	Slovenia	
SJ	Svalbard and Jan	
	Mayen	
SK	Slovakia	
SL	Sierra Leone	
SM	San Marino	
SN	Senegal	
SO	Somalia	
SR	Suriname	
ST	Sao Tome and Principe	
SV	El Salvador	
SY	Syrian Arab Republic	
SZ	Swaziland	
TC	Turks and Caicos	
_	Islands	
TD	Chad	
TF	French Southern	
	Territories	
TG	Togo	
TH	Thailand	
TJ	Tajikistan	
TK	Tokelau	
TM	Turkmenistan	
TN	Tunisia	
ТО	Tonga	
TP	East Timor	
TR	Turkey	
П	Trinidad and Tobago	
TV	Tuvalu	
TW	Taiwan	
TZ	Tanzania, United	
	Republic of	
UA	Ukraine	
UG	Uganda	
UM	United States Minor	
	Outlying Islands	
US	United States	
UY	Uruguay	
UZ	Uzbekistan	
VA	Vatican City State	
	(Holy See)	
VC	Saint Vincent and the	
	Grenadines	
VE	Venezuela	
VG	Virgin Islands (British)	
VI	Virgin Islands (U.S.)	
VN	Viet Nam	
VU	Vanuatu	
WF	Wallis and Futuna	
	Islands	
ws	Samoa	
YE	Yemen	
YT	Mayotte	
YU	Yugoslavia	
ZA	South Africa	
ZM	Zambia	
ZR	Zaire	
ZW	Zimbabwe	

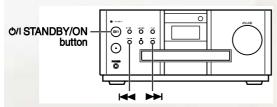
Listening to a radio broadcast



Setting the AM tuner interval spacing

Some countries space AM stations 9 kHz apart, and other countries use 10 kHz spacing.

On the main unit ONLY:



To select 10 kHz intervals, while holing down ►►I on the main unit in Standby mode, press O/I STANDBY/ON on the main unit to turn on the power. "10 kHz" appears on the display window.

To select 9 kHz intervals, while holing down I◀◀ on the main unit in Standby mode, press O/I STANDBY/ON on the main unit to turn on the power. "9 kHz" appears on the display window.

NOTE

If the interval spacing is switched, the memory in which the radio stations were stored will be erased.

You can tune in to FM or AM.

Selecting a station

Press FM/AM.

Each time you press the button, the band will be alternated between FM and AM. **Example:**



2 Press TUNING ○ or TUNING ○ to select the station (frequency).

Automatic tuning:

Hold down **TUNING** \bullet or **TUNING** \bullet until the system starts searching, and then release the button.

When a station of sufficient signal strength is tuned in to, the system stops searching automatically.

To stop searching manually, press **TUNING** \bullet or **TUNING** \bullet .

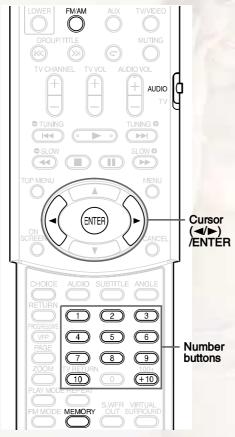
Manual tuning:

Each time you press **TUNING ②** or **TUNING ③**, the frequency changes.

- When an FM stereo program is received, the "ST" (Stereo) indicator lights.
- You can also select the station with cursor ▲/▼.

NOTE

If the stereo FM program currently tuned in to is noisy, you can improve the reception by pressing FM MODE to switch to the monaural mode ("MONO" lights). If you press FM MODE again, or tune in to another station, the receiving mode returns automatically to the stereo mode.



Presetting stations in the system allows you to easily tune in to a station.

NOTE

Set the remote control mode selector to **AUDIO** before using the number buttons.



Presetting stations

The system stores up to 30 FM stations and up to 15 AM stations.

- 1 Select a station you want to store (□ page 33 for how to select).
- **2** Press MEMORY.

Figures (memory number) blink on the display window for about 5 seconds.

- 3 Select the number you want to store by pressing cursor
 while the memory number is blinking.
 - You can also select the number by using the number buttons.
 - Refer to "How to use the number buttons" (propage 16).
- 4 Press MEMORY or ENTER while the selected number is blinking.

"SET" will be displayed and the selected station will be stored.

NOTE

Storing a new station to a used number erases the previously stored station.

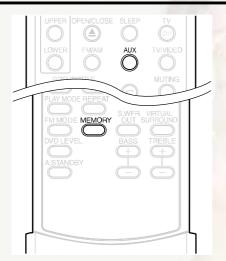
Tuning in to a preset station

- Press FM/AM repeatedly to select either FM or AM.
- 2 Press the number buttons to select the memory number of a station you want to tune in to.

Refer to "How to use the number buttons" (page 16).

You can also select by pressing cursor </▶.

Listening to the sound of other audio device



Connect the other audio device to this system in advance (propage 11).

- Press AUX.
 The source changes to AUX.
- Play the other audio device.
 For details, refer to the manual of the device connected.
- Adjust the volume and the sound quality of the system (propage 17).

Adjust the sound input level of the audio device

You can adjust the sound input level of another audio device connected to the AUX jack.

- Press AUX.
 The source changes to AUX.
- **2** Hold down MEMORY until an input level is displayed.

Each time you hold down the button, it switches as follows:

LEVEL 1: Select this normally.

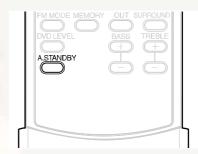


LEVEL 2: Select this when the input level from the other device is too high and the sound is distorted.

The initial setting is "LEVEL1".

Auto Standby

DVD DVD VCD SVCD C D MP3 JPEG



If there is no operation for 3 minutes while the disc is stopped, the power will be automatically turned off.

Press A.STANDBY during playback or while the disc is stopped, or no disc is loaded ("NO DISC" is displayed).

"A.S.ON" (Auto Standby On) and "A.STANDBY" will be lit on the display window on the main unit.

When a stopped state is entered (after playback is finished, for example), "A.STANDBY" starts blinking.

This means that the power will be turned off automatically if there is no operation for 3 minutes. And, 20 seconds before the power is turned off, "POWER OFF" will appear blinking.

Releasing Auto Standby

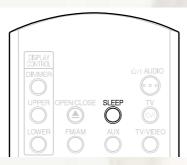
Press A.STANDBY.

"A.S.OFF" (Auto Standby Off) will appear and "A.STANDBY" will be turned off on the display window on the main unit.

NOTE

When the source is FM/AM or AUX, Auto Standby does not work.

Sleep Timer

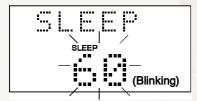


When the time you specify elapses, the system will be turned off by itself.

Press SLEEP.

Each time you press the button, the time indicated on the display window on the main unit changes (in minutes).

Example: When Sleep Timer is set to 60 minutes



Sleep Timer will be automatically set in a few seconds, and the indication will disappear.

NOTE

When Sleep Timer is set, the display window darkens automatically.

Changing the time

Reselect the time by pressing SLEEP repeatedly.

Confirming the time

Press SLEEP once while Sleep Timer is set.

Releasing

Press SLEEP repeatedly until "OFF" appears.

NOTE

Sleep Timer will also be released when the power is turned off.

Tray Lock

You can lock the disc tray to prevent the disc from being ejected.

Setting

Turn off the power. And while holding down ■(Stop) on the main unit, press ▲(Open/Close). "LOCKED" appears on the display window on the main unit.

Releasing

Carry out the same operations as those for setting. "UNLOCKED" appears on the display window on the main unit.

Using AV COMPU LINK

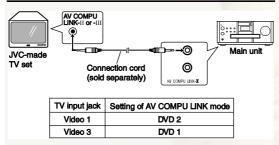
When the TV set or device to be connected is a JVC product equipped with the AV COMPU LINK-II or -III jack, connecting them to the AV COMPU LINK jack on the system will allow you to control the other devices by operating one device.

Connection and setting

NOTE

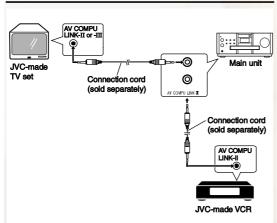
- Refer to "Others" (
 page 31) to set the AV COMPU LINK mode.
- Also carefully read manuals of devices to be connected.

Connection with a TV set



 Connect to the Video 3 (DVD) input jack on your TV set. If Video 3 is for DV/Movie input, read the following descriptions:

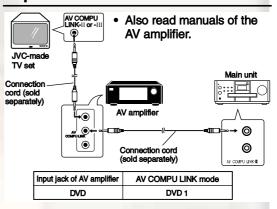
Connection with a TV set and a VCR



TV input jack	put jack AV COMPU LINK mode Remote-con	
Video 1	DVD 2	В
Video 2	DVD 3	Α

 When using with initial settings, connect to Video 3 (if not set to DV/Movie input). Set the remotecontrol code to "A".

Connection with a TV set and an AV amplifier



NOTE

For proper operation, be sure to connect the DIGITAL OUT jack to the DVD sound input terminal on the AV amplifier.

Operations

- 1 Turn on the main power of the TV set.
- 2 Insert a disc or videotape into the source device (the system or a VCR).
- 3 Press the play button on the source device.
 - The TV set will be turned on.
 - TV input will be switched to external input (Video 1, 2 or 3) of the source device.
 - The AV amplifier will be turned on.
 - The source of the AV amplifier will be switched to the device on which the play button has been pressed.

When you encounter a problem that seems to be a fault, check the following points before contacting your JVC service center:

Power source

- Power does not come on.
 - The power cord is not connected to the main unit or an AC outlet.
 - → Connect the power cord correctly. (LP page 12)

Operation

- You cannot operate any button.
 - Some specific operations may be inhibited for some discs.
- The remote control does not work.
 - The dry-cell batteries have run out.
 - → Replace the batteries. (r page 7)
- A disc cannot be played back.
 - In the case of DVD VIDEO discs
 - → Check the Region Code number of the disc. (reg page 3)
 - "PLAYABLE Err" is displayed on the display window.
 - It is not a disc that can be played on this system.
 - → Check the disc type. (
 page 3)
 - Parental Lock is set. (pg page 31)

About images

- No picture appears.
 - The video cord is not connected correctly.
 → page 12
 - Both of the component video jack and Svideo jack are connected.
 - → Connect either. (
 page 12)
- The picture is distorted.
 - A VCR is connected between the main unit and the TV set.
 - → Connect the main unit directly to the TV set. (

 page 12)
 - Although this system is connected to a non-Progressive TV set, DVD's scan mode is set to "PROGRESS".
 - → Set the scan mode to "INTER.". (LP page 27)
- The screen size is abnormal.
 - · The screen size is set improperly.
 - → Set "MONITOR TYPE" according to the TV set you are using. (
 page 30)

The TV screen darkens.

- "SCREEN SAVER" is set.
 - \rightarrow If set, press any button. (\square page 30)
- The screen cannot be switched.
 - The Progressive mode is applied only to component video output.
- The screen rolls over upward and downward.
 - → Select a color system correctly.
 (© page 5)

About sound

- There is no sound.
 - · Speakers are not connected correctly.
 - → c page 10
 - · The sound is muted.
 - → page 17
 - "NO AUDIO" is displayed on the display window.
 - The disc may have been produced through illegal copying.
 - → Confirm at the store where you bought the disc.
- The sound is weak compared with TV or Video.
 - "DVD LEVEL" is set to "NOR".
 - → Set to other than "NOR". (
 page 27)
- The sound is distorted.
 - The volume is turned up too high.
 - → Turn down the volume. (மு page 17)
- No sound comes out of the subwoofer.
 - · "SUB WFR" is turned off.
 - → Press S.WFR OUT to turn on. (EP page 11)

About radio

- The sound is noisy while receiving./Receiving is disabled.
 - · The antenna is not connected correctly.
 - → Connect the antenna correctly.
 (□ page 9)

Troubleshooting (continued)

Others

It is not possible to switch audio or subtitles between languages.

- The disc does not contain 2 or more languages.
 - → If only a single language is recorded on the disc, switching to another language is impossible. (☐ page 25)

■ No subtitle is displayed.

- The disc does not contain any subtitles.
 - → A DVD VIDEO without subtitles cannot display any subtitles.
- · The subtitle language is set to "OFF".
 - → Specify a language. (
 page 30)
- Before or after A point or B point in A-B Repeat Playback, no subtitle may be displayed.

■ The disc cannot be ejected.

- · Tray Lock is set.
 - $\rightarrow \textbf{$\stackrel{\cdot}{\textbf{\square}}$ page 36}$

"LR ONLY" is displayed on the display window (for a DVD AUDIO).

 Because, for the track being played back, down mix is inhibited for multi-channel sound, the sound of L and R is output directly (a normal action).

If the system does not work properly despite correction measures above

Many functions of this system are implemented by microcomputers. If pressing any button does not result in the normal action, disconnect the power plug from the outlet, wait for a while, and reconnect the system.

Language codes

Code	Language	Code	Language
AA	Afar	MK	Macedonian
AB	Abkhazian	ML	Malayalam
AF	Afrikaans	MN	Mongolian
AM	Ameharic	МО	Moldavian
AR	Arabic	MR	Marathi
AS	Assamese	MS	Malay (MAY)
AY	Aymara	MT	Maltese
AZ BA	Azerbaijani Bashkir	MY NA	Burmese
BE	Byelorussian	NE	Nauru Nepali
BG	Bulgarian	NL	Dutch
BH	Bihari	NO	Norwegian
BI	Bislama	OC	Occitan
BN	Bengali, Bangla	ОМ	(Afan) Oromo
во	Tibetan	OR	Oriya
BR	Breton	PA	Panjabi
CA	Catalan	PL	Polish
CO	Corsican	PS	Pashto, Pushto
CS	Czech	PT	Portuguese
CY	Welsh	QU	Quechua
DA	Danish	RM	Rhaeto-Romance
DZ	Bhutani	RN	Kirundi
EL	Greek	RO	Rumanian
EO	Esperanto	RU	Russian
EU	Estonian	RW SA	Kinyarwanda
FA	Basque Persian	SD	Sanskrit Sindhi
FI	Finnish	SG	Sangho
FJ	Fiji	SH	Serbo-Croatian
FO	Faroese	SI	Singhalese
FY	Frisian	SK	Slovak
GA	Irish	SL	Slovenian
GD	Scots Gaelic	SM	Samoan
GL	Galician	SN	Shona
GN	Guarani	SO	Somali
GU	Gujarati	SQ	Albanian
HA	Hausa	SR	Serbian
HI	Hindi	SS	Siswati
HR	Croatian	ST	Sesotho
HU	Hungarian	SU	Sundanese
HY	Armenian	SV	Swedish
IA IE	Interlingua	SW	Swahili Tamil
IK	Interlingue Inupiak	TE	Telugu
IN	Indonesian	TG	Tajik
IS	Icelandic	TH	Thai
IW	Hebrew	TI	Tigrinya
JI	Yiddish	TK	Turkmen
JW	Javanese	TL	Tagalog
KA	Georgian	TN	Setswana
KK	Kazakh	то	Tonga
KL	Greenlandic	TR	Turkish
KM	Cambodian	TS	Tsonga
KN	Kannada	П	Tatar
KO	Korean (KOR)	TW	Twi
KS	Kashmiri	UK	Ukrainian
KU	Kurdish	UR	Urdu
KY LA	Kirghiz Latin	UZ VI	Uzbek Vietnamese
LN	Lingala	VO	Volapuk
LO	Laothian	WO	Wolof
LT	Lithuanian	XH	Xhosa
LV	Latvian, Lettish	YO	Yoruba
MG	Malagasy	ZU	Zulu
MI	Maori		

General

AC 240 V \sim , 50 Hz Power source: Power consumption: 24 W (in operation)

1.1 W (on standby)

Weight:

External dimensions

 $(W \times H \times D)$: 232 mm ×100 mm ×269 mm

DVD player

Playable discs: DVD VIDEO, DVD AUDIO, VCD,

Super VCD, CD, CD-R/RW (CD, VCD, MP3, JPEG format), DVD-R/

RW (video format)

Video output

Color system: PAL/NTSC selectable

Horizontal resolution: 500 lines

Composite X1: 1.0 V (p-p)/75 Ω,

synchronization negative

S-video X1: Y output: 1.0 V (p-p)/75 Ω , synchronization negative

C output: 0.286 V (p-p)/75 Ω

Y output: 1.0 V (p-p)/75 Ω P_E/P_R output: 0.7 V (p-p)/75 Ω Component X1:

Audio output

Analog sound output: Speakers X2

Output power

(IEC 268-3): 60 W (30 W + 30 W) at 4 Ω (10% THD)

Fitting impedance: 4Ω to 16Ω Headphones X1: 11 mW/32 Ω 16 Ω to 1 k Ω Fitting impedance: Subwoofer X1: 500 mVrms/10 kΩ

Digital sound output:

Optical X1: -21 dBm to -15 dBm

Other output

AV COMPU LINK X2 (ø3.5)

Audio input

Sound input: AUX X 1 Level 1: 250 mV/50 k Ω Level 2: 500 mV/50 kΩ

Tuner

FM tuner:

87.50 MHz to 108.00 MHz Receiving frequency: Antenna: 75 Ω - unbalanced type

AM tuner:

Receiving frequency: 531 kHz to 1710 kHz

(at 9 kHz interval space) 530 kHz to 1710 kHz (at 10 kHz interval space)

Reference

External antenna jack (loop

antenna)

Speaker

Antenna:

Type: 1-way bass-reflex type Magnetically shielded type

8 cm cone X 1 Speaker:

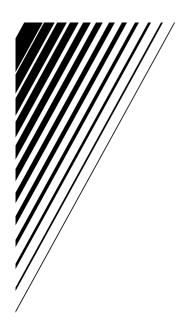
Power handling capacity: 30 W Impedance: 4Ω

81 dB/W·m Sound pressure level:

Dimension (W \times H \times D): 120 mm × 161 mm × 239 mm

Weight (1 unit):

Designs and Specifications are subject to change without notice.



JVC

JVC



COMPACT COMPONENT SYSTEM

EX-A1

Consists of CA-EXA1 and SP-EXA1



INSTRUCTIONS

LVT1284-004A

Warnings, cautions and others

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.

CAUTION - O/I button!

Disconnect the mains plug to shut the power off completely (the STANDBY lamp goes off).

The O/I button in any position does not disconnect the mains line.

- When the system is on standby, the STANDBY lamp lights red.
- When the system is turned on, the STANDBY lamp goes off.
 The power can be remote controlled.

CAUTION

- Do not block the ventilation openings or holes.
 (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be considered and local rules or laws governing the disposal of these batteries must be followed strictly.
- Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

IMPORTANT FOR LASER PRODUCTS

- 1. CLASS 1 LASER PRODUCT
- CAUTION: Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
- CAUTION: Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam
- 4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

CAUTION : Visible and invisible	ADVARSEL : Synlig og usynlig	VARNING : Synlig och	VARO : Avattaessa ja suojalukitus
	laserstråling når maskinen er		
	åben eller interlocken fejler.		
	Undgå direkte eksponering til		
BEAM. (e)	stråling. (d)	strålen. (s)	kohdistumista suoraan itseesi. (f)

CAUTION – Proper Ventilation

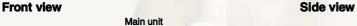
To avoid risk of electric shock and fire and to protect from damage, locate the apparatus as follows:

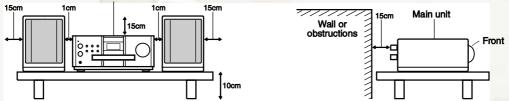
Top/Front/Back/Sides: No obstructions should be placed in the areas shown by the dimensions below.

Bottom: Place on the level surface. Maintain adequate air path for ventilation by placing on

a stand with a height of 10 cm more.

In addition, maintain the best possible air circulation.





IMPORTANT for the U.K.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below:

IMPORTANT:

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

Blue: Neutral Brown: Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

SAFETY INSTRUCTIONS "SOME DOS AND DON'TS ON THE SAFE USE OF EQUIPMENT"

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

Do read the operating instructions before you attempt to use the equipment.

Do ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug when making or changing connections.

Do consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

Do be careful with glass panels or doors on equipment.

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way — switch off, withdraw the mains plug and consult your dealer.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode.

Switch off using the switch on the equipment and make sure that your family know how to do this.

Special arrangements may need to be made for infirm or handicapped people.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

DON'T listen to headphones at high volume as such use can permanently damage your hearing.

DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings.

Overheating will cause damage and shorten the life of the equipment.

DON'T use makeshift stands and NEVER fix legs with wood screws — to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T allow electrical equipment to be exposed to rain or moisture.

ABOVE ALL

- NEVER let anyone, especially children, push anything into holes, slots or any other opening in the case.
 - this could result in a fatal electrical shock.
- NEVER guess or take chances with electrical equipment of any kind it is better to be safe than sorry!

E43486-340B

Table of contents

Introduction
Warnings, cautions and othersG-1
Special cautions2
About discs3
Description of parts5
Getting started
Using the remote control6
Putting the batteries in the remote control 6
Operating the TV using the remote control 7
Connecting up8
Connecting up
Basic operations
Playing discs12
Playback 12
To switch the display13
Select what you want to play by using
the number buttons14
To stop playback14
To pause playback14
To advance picture frame-by-frame14
Fast reverse/Fast forward search14
Playing back from a position 10 seconds
before (One Touch Replay)
Skip to the beginning of the selection
To change the brightness of the
display window (DIMMER)16
Adjusting the volume16
Adjusting sound quality16
Turning off the sound temporarily (MUTING) 16
Advanced energtions
Advanced operations
Playing MP3 and JPEG discs16
Resume Playback18
Select the scene to be played19
Program Playback/Random Playback20
Repeat Playback22
Other convenient functions24
Selecting the subtitles24
Selecting the audio language24
Selecting a view angle24
Enlarging the picture (ZOOM)25
Adjusting the picture quality (VFP)25
Creating realistic sound
(VIRTUAL SURROUND)26

Playing the Bonus Group......27 Browsable Still Pictures (B.S.P.).....27

Using the menu bar	
Preferences	29
Country/Area codes	31
Listening to radio	
Listening to a radio broadcast	32
Tuning in to a preset station	33
Radio Data System (RDS)	
Convenient functions	
Listening to the sound of	
other audio device	
Auto Standby	38
Sleep Timer	39
Tray Lock	
Reference	
Troubleshooting	40
Language codes	
Specifications	

How to read this manual

- Operations are described by mainly using the remote control buttons. If there are the same marks on the main unit, the buttons on the main unit can also be used.
- The following marks tell you for which type of the discs the operation can be made.



JPEG

- The illustrations and TV screens may be different between the actual case and the description. "VCD" is an abbreviation of "Video CD". "SVCD" is an abbreviation of "Super Video CD".

Special cautions

Notes on handling

■ Important cautions

Installation of the system

- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C.
- Leave sufficient distance between the system and the
- · Do not use the system in a place subject to vibration.

Power cord

- Do not handle the power cord with wet hands!
- A small amount of power is always consumed while the power cord is connected to the wall outlet.
- When unplugging the power cord from the wall outlet, always pull on the plug, not the power cord.

To prevent malfunctions of the system

- There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the system.
 Do not use any non-standard shape disc (like a heart, flower or credit card, etc.) available on the market, because it may damage the system.

 Do not use a disc with tape, stickers, or paste on it.
- Do not use a disc with tape, stickers, or paste on it, because it may damage the system.



Note about copyright laws

Check the copyright laws in your country before recording from DVDs, Super Video CDs (SVCDs), VCDs and CDs. Recording of copyrighted material may infringe copyright laws.

Note about copy guard system

DVDs are protected by copy guard system. When you connect the system to your VCR directly, the copy guard system activates and the picture may not be played back correctly.

■ Safety precautions

Avoid moisture, water and dust

Do not place the system in moist or dusty places.

Avoid high temperatures

Do not expose the system to direct sunlight and do not place it near a heating device.

When you are away

When away on travel or for other reasons for an extended period of time, disconnect the power cord plug from the wall outlet.

Do not block the vents

Blocking the vents may damage the system.

Care of the cabinet

When cleaning the system, use a soft cloth and follow the relevant instructions on the use of chemically-coated cloths. Do not use benzene, thinner or other organic solvents including disinfectants. These may cause deformation or discoloring.

If water gets inside the system

Turn the system off and disconnect the power cord plug from the wall outlet, then call the store where you made your purchase. Using the system in this condition may cause fire or electrical shock.

When condensation or water drops adhere to the lens

In any of the following cases, condensation or water drops may adhere to the lens to prevent the system from working properly:

- Immediately after roomheating starts
- When the system is installed in a steamy or damp space
- When the system is suddenly moved from a cold place to a warm space

In any of these cases, leave the system turned on for 1 or 2 hours before use.

Supplied accessories

Check to be sure you have all of the supplied accessories.

The number in parentheses is the quantity of the pieces supplied. If anything is missing, contact your dealer immediately.

- Remote control (1)
- Batteries (2)
- FM antenna (1)
- AM loop antenna (1)
- Power cord (1)
- · Speaker cords (2)

Manufactured under license from Dolby Laboratories. "Dolby", "MLP Lossiess", and the double-D symbol are

Manufactured under license from Doiny Laboratories. "Doiny", "MLP Lossiess", and the double-D symbol are trademarks of Doiby Laboratories.

"DTS" and "DTS 2.0+DIGITAL OUT" are registered trademarks of Digital Theater Systems, Inc.
This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

About discs Introduction

Playable disc types

This system has been designed to play back the following discs:

DVD VIDEO, DVD AUDIO, VCD, SVCD, CD

This system can also play back the following discs:
• Finalized DVD-R/RW discs recorded in the DVD

- · CD-R/RW discs recorded in the following formats
- Music CDs (finalized discs)

VIDEO format.

- VCDs
- SVCDs
- MP3/JPEG discs recorded in ISO 9660 (for details, refer to "About MP3/JPEG discs")

However, some discs may not be played back because of their disc characteristics, recording conditions, or damage or stain on them.

Only sounds can be played back from the following discs:

MIX-MODE CD CD-EXTRA

CD-G CD TEXT

Discs you can play:

Disos you out play.			
Disc Type	Mark (Logo)	Video Format	Region Code Number*
DVD VIDEO	DVD DVD	PAL	2/ALL
DVD AUDIO	AUDIO/VIDEO AUDIO	_	_
VCD	Video CO	PAL	_
SVCD	COMPACT VIDEO SUPER VIDEO CD	PAL	\ -
CD	COMPACT DISC DIGITAL AUDIO	_	_
CD-R	COMPACT CISC DIGITAL AUDIO Recordable	_	-
CD-RW	COMPACT DIGITAL AUDIO REWITTABLE	-	_

* Note on Region Code

DVD players and DVD VIDEOs have their own Region Code numbers. This system can only play back a DVD VIDEO recorded with the Region Code number and video format mentioned above.

Examples:









If a DVD VIDEO with an improper Region Code number is loaded, "REGION CODE ERROR!" appears on the TV screen and playback cannot start.

 On some DVD VIDEOs, DVD AUDIOs, VCDs or SVCDs, their actual operation may be different from what is explained in this manual. This is due to the disc programming and disc structure, not a malfunction of this system. Discs that cannot be played back

 The following discs cannot be played back: DVD-ROM, DVD-RAM, DVD-R/RW (recorded in VR format), CD-ROM, CD-I (CD-I Ready), Photo CD, SACD, etc.

Playing back these discs will generate noise and damage the speakers.

Damaged discs and discs in an extraordinary shape (other than a disc of 12 cm or 8 cm in diameter) cannot be played back.

About MP3/JPEG discs

Playable MP3/JPEG discs and files

- Discs recorded in the ISO 9660 format are playable (except discs recorded in the "packet write" format (UDF format)).
- Discs recorded in the multi-session format are also playable.
- Files with an extension of ".mp3," ".jpg" or ".jpeg"
 (extensions with uppercase and lowercase letters mixed are also acceptable) are playable.

Notes on MP3/JPEG discs and files

- A disc may not be played, or reading it may take a long time depending on its recording conditions or properties.
- properties.

 The time needed for reading varies with the number of groups or tracks (files) recorded on the disc
- groups or tracks (files) recorded on the disc.

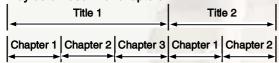
 If a character other than single byte English characters is used in the file name of an MP3/JPEG file, the track/file name will not be displayed correctly.
- The order of tracks/groups displayed on the MP3
 Control screen, and the order of files/groups displayed on the JPEG Control screen may be different from that of files/folders displayed on PC's monitor screen.
- An off-the-shelf MP3 disc may be played in an order different from that indicated on the label attached to the disc.
- Playing an MP3 file including a still image may take a long time. The elapsed time is not displayed until playing starts. If playing starts, the elapsed time may not be displayed correctly.
- This system does not handle the ID3 tag of the MP3 file
- For an MP3 file, a disc with a sampling frequency of 44.1 kHz and transmission rate of 128 kbps is recommended.
- This system can play a baseline JPEG file, excluding monochromatic JPEG files.
- This system can play JPEG data taken with a digital camera conforming to the DCF (Design Rule for Camera File System) standard (when a function is applied such as the automatic rotation function of a digital camera, data goes beyond the DCF standard, so the image may not be displayed).
- If data has been processed, edited and restored with PC image editing software, the data may not be displayed.
- This system cannot play animations such as MOTION JPEG, or still images (TIFF etc.) other than JPEG, and image data with sound.
- The resolution of 640 x 480 pixels is recommended for JPEG files. If a file has been recorded at a resolution of more than 640 x 480 pixels, display may take a long time. An image with a resolution of more than 8192 x 7680 pixels cannot be displayed
- 7680 pixels cannot be displayed.

 Files recorded on DVD-R/RW discs cannot be played back.

Disc structure

DVD VIDEO

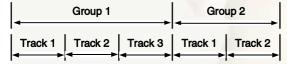
A DVD VIDEO consists of "titles" and each title may be divided into "chapters".



DVD AUDIO

A DVD AUDIO consists of "groups" and each group may be divided into "tracks".

Some discs include a "bonus group" that requires a password for playing (page 27).



VCD/SVCD/CD

VCD, SVCD and CD consist of "tracks". In general, each track has its own track number. (On some discs, each track may also be further divided by indexes.)

MP3 [JPEG] discs

On an MP3 [JPEG] disc, each still picture (material) is recorded as a track [file]. Tracks [Files] are usually grouped into a folder. Folders can also include other folders, creating hierarchical folder layers.

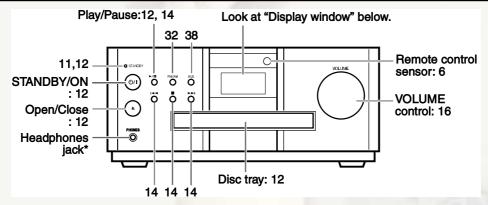
This unit simplifies the hierarchical construction of a disc and manages folders by "groups".



This product can recognize up to 1000 tracks [files] in a disc. Also, the product can recognize up to 150 tracks [files] per group and up to 99 groups in a disc. Since the unit ignores the tracks [files] whose numbers are exceeding 150 and the groups whose numbers are exceeding 99, they cannot be played back.

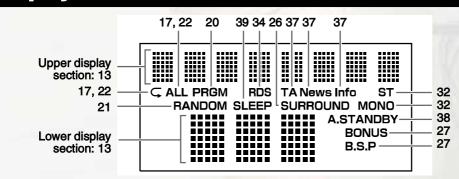
 If there is any type of files other than MP3 [JPEG] files in a folder, those files are also counted in the total file number. The numbers represent the page numbers.

Front panel

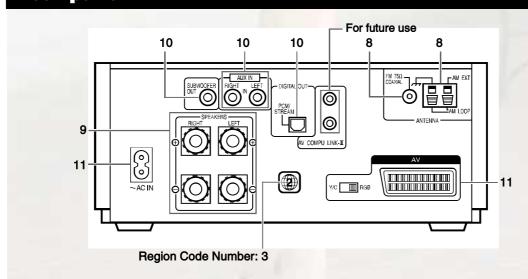


* Connect a pair of headphones (commercially available) with a stereo mini plug. If the headphones are connected, the speakers and subwoofer will not produce any sound.

Display window

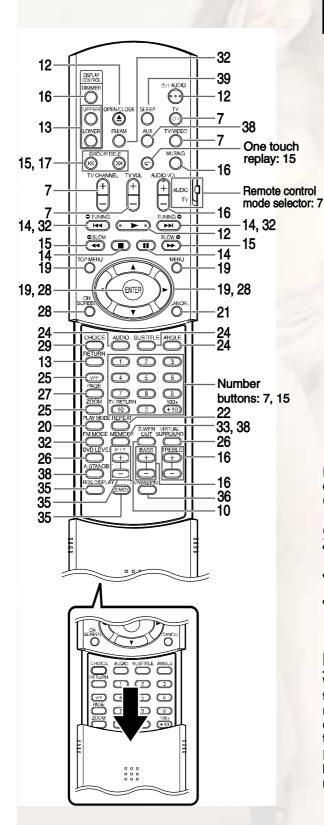


Rear panel

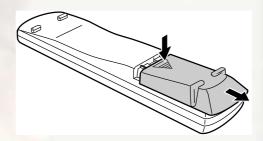


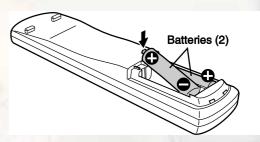
Using the remote control

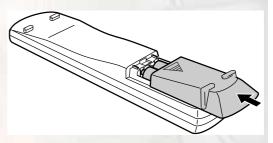
The numbers represent the page numbers.



Putting the batteries in the remote control







If the range or effectiveness of the remote control decreases, replace the batteries. Use two R6P (SUM-3)/AA(15F) type dry-cell batteries.

CAUTION

- Do not use a used battery and a new battery together.
- Do not use different types of batteries at the same time.
- Take out the batteries if the remote control is not to be used for a long time. Otherwise it may cause a leakage.

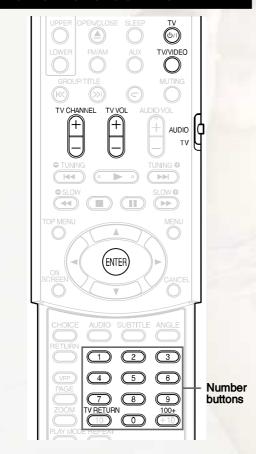
Remote control operation

When operating the remote control, point it towards the front panel of the main unit. If the remote control is operated from a direction that is extremely oblique or when there is an obstacle in the way, signals may not be transmitted.

If the remote control sensor is exposed to a strong light such as direct sunlight, correct operation may not be carried out.

This page is for when operating your TV using the remote control of this product.

Operating the TV using the remote control



Setting the manufacturer's code

Slide the remote control mode selector to the TV side.



2 Keep pressing down **6/1TV**.

NOTE

Keep pressing down O/I TV until Step 4 is complete.

- **3** Press ENTER and release.
- 4 Press number buttons (1-9, 0).

Examples:

For a Hitachi TV: Press 0, then 7. For a Toshiba TV: Press 2, then 9.

If there are more than one manufacturer's codes, try them in turn and select the one that causes the product to work properly.

Manufacturer	Code	Manufacturer	Code
JVC	01	Nordmende	13, 14, 18, 26-28
Akai	02,05	Okano	09
Blaupunkt	03	Orion	15
Daewoo	10, 31, 32	Panasonic	16, 17
Fenner	04, 31, 32	Philips	10
Fisher	05	Saba	13, 14, 18, 26-28
Grundig	06	Samsung	10, 19, 32
Hitachi	07,08	Sanyo	05
Inno-Hit	09	Schneider	02,05
Irradio	02, 05	Sharp	20
Magnavox	10	Sony	21-25
Mitsubishi	11,33	Telefunken	13, 14, 18, 26-28
Miver	03	Thomson	13, 14, 18, 26-28, 30
Nokia	12,34	Toshiba	29

NOTE

Manufacturer's codes may be changed without notice. You may not be able to operate a TV produced by the manufacturer shown above.

5 Release O/ITV.

For TV operation

Operate the remote control by pointing it towards the TV.

TV ©⁄)	Turn ON/OFF the power.	
TV CHANNEL	Change channels.	
TV VOL	Adjust volume.	
1 ~ 9 / 0 / 100+	AUDIO TV Select channels.	
TV RETURN	Alternates between the previously selected channel and the current channel.	
TV/VIDEO	Switch TV and video input.	

^{*1} Make sure to slide the remote control mode selector to the TV side in advance.

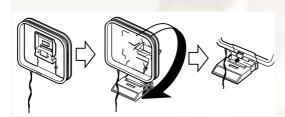
NOTE

When the batteries are replaced, perform the manufacturer's code setting again.

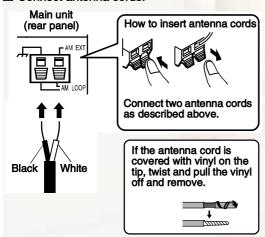
Connecting antennas

Connecting AM loop antenna (supplied)

1 Set up the AM loop antenna.



2 Connect antenna cords.

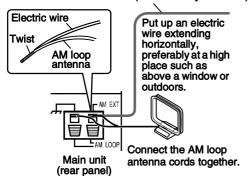


3 Turn the AM loop antenna to the direction of the best radio reception.

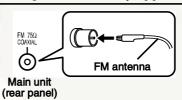
Locate the AM loop antenna as far away from the main unit as possible.

- Do not locate the AM loop antenna on a metallic table or close to a TV, personal computer, etc.
 Otherwise it may result in bad radio reception.
- When good radio reception cannot be obtained with the supplied AM loop antenna

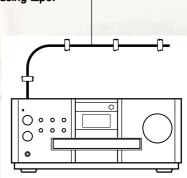
Electric wire: 3 - 5m (commercially available)



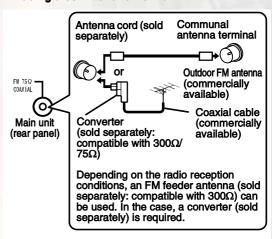
Connecting FM antenna (supplied)



Put the antenna up straight in the direction where the best radio reception can be obtained, and fix by using tape.



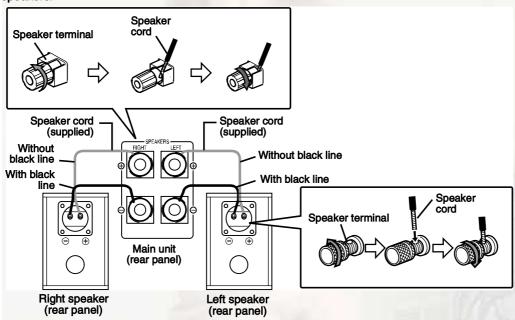
When good radio reception cannot be obtained with the supplied antenna or when using a communal antenna



For details of connecting a separately sold antenna, refer to the user guide for the antenna or converter.

Connecting speakers

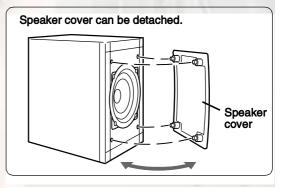
There is no difference between the left and right speakers.



CAUTION

- DO NOT connect more than one speaker to one speaker terminal.
- The speakers of this product are magnetically shielded, but color irregularities may occur on the TV depending on how the speakers are installed. Keep in mind the following.
 - Turn off the main power of your TV before installing the speakers. Wait for about 30 minutes before turning on the TV again.
 - If color irregularity occurs in pictures, keep a distance of more than 10 cm between the TV and the speakers.

The speakers employ natural wood for the diaphragm and the cabinet in order to reproduce the original sound faithfully. The appearance will therefore be different for each unit.



NOTE

- Impedance of speaker that can be connected to the main unit is within a range of 4Ω to 16Ω .
- In order to have a sufficient cooling effect, leave a space of more than 1cm between the main unit and the speakers or other objects.

Connecting other devices

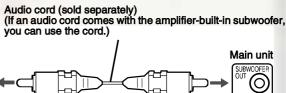
This page is for when connecting the main unit with other devices.

Connecting subwoofer

With an amplifier-built in subwoofer (sold separately), you can enjoy a more dynamic bass sound. Refer to the manual of the subwoofer for details.

Amplifier-built-in subwoofer (sold separately)

Amplifier-built-in subwoofer (life your separately)

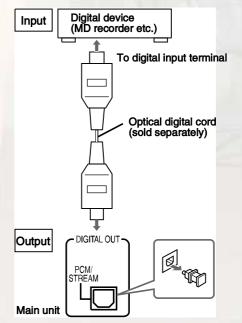


When you want to hear sound from the subwoofer, press **S.WFR OUT** on the remote control to display "SUB WFR ON" (Sub Woofer ON) on the display window on the main unit. Each time you press the button, the display toggles between "ON" and "OFF".

NOTE

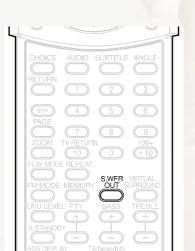
When "SUB WFR ON" is selected, bass sound from the left and right speakers will be automatically lowered and the bass sound will be emitted mainly from the subwoofer.

Connecting with a digital device

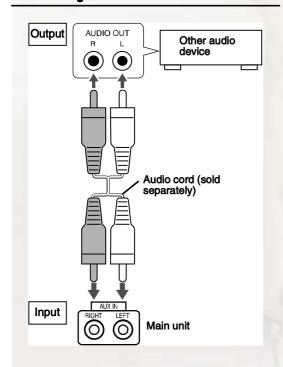


CAUTION

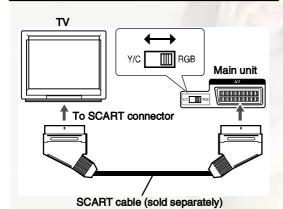
- For details of signals to be output, refer to page 30.
- If connecting the main unit with equipment with the function of a Dolby Digital decoder, the setting in "D. RANGE COMPRESSION" of "AUDIO" (propage 30) will be invalid regarding sound from the digital audio output of the main unit.



Connecting with other audio device



Connecting with TV

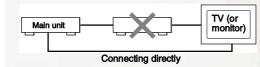


- In standby mode, set the RGB-Y/C selector correctly according to your TV.
 - When the TV accommodates the RGB video signal, set the RGB-Y/C selector to RGB so that you can enjoy better-quality pictures.
 - When the TV accommodates the S-video signal, set the RGB-Y/C selector to Y/C.
 - When the TV accommodates the composite video signal only, set the RGB-Y/C selector to RGB.

CAUTION

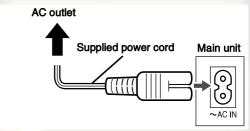
Connect the main unit directly with a TV (or a monitor) without routing through a VCR.

Otherwise it may cause picture distortion while playing.



Also, when connecting the main unit to a TV with a VCR built in, there may be picture distortion while playing.

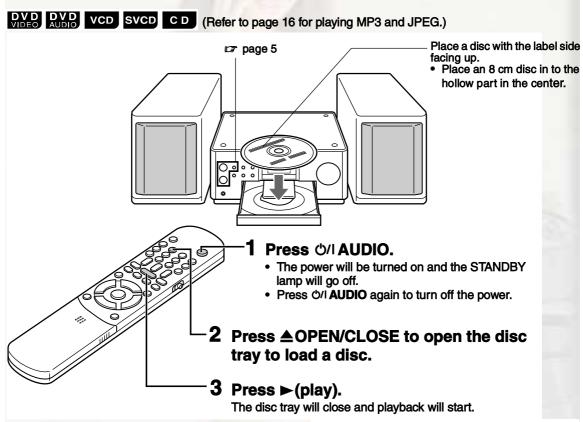
Connecting the power cord



- Connect the power cord after all other connections are complete.
- The STANDBY lamp (on the front panel) will be lit.

Playing discs

Playback



- The power will be turned on when any of O,
- on the main unit and , or or on the main unit and or on the main unit and or on the remote control is pressed while the power is off.

If any button other than (a) or (a) is pressed, the source will also be changed (if there is a disc loaded, playback will start).

NOTE

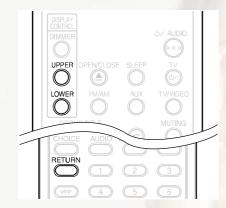
- A menu screen may be displayed after starting playback of a DVD. In this case, select a desired item to playback by using the following buttons on the remote control.
- Select a desired item using
 press (NTE).
- Select a desired item using the number buttons.
- Depending on the disc, actual operation may be different from the description.



Screens displayed on the TV when the power is turned ON.

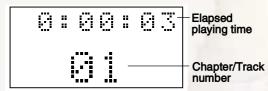
The following messages appear depending on the status of the system. (When FM/AM or AUX is selected as a source, the messages do not appear.)

NOW READING	Appears when the system is reading the disc information. Wait for a while.
REGION CODE ERROR!	Appears when the Region Code of the DVD does not match the code the system supports. (☞ page 3)
NO DISC	Appears when no disc is loaded.
OPEN	Appears when opening the disc tray.
CLOSE	Appears when closing the disc tray.
CANNOT PLAY THIS DISC	Appears when trying to play back an unplayable disc.



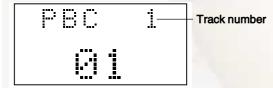
Display window during disc playback

Example: When a DVD VIDEO or DVD AUDIO is played



If "BONUS" or "B.S.P." is displayed during a DVD AUDIO playback, refer to page 27.

Example: When a SVCD or VCD is played



- PBC (Play Back Control): A signal recorded in a VCD (version 2.0) for controlling playback. It is possible to enjoy interactive software or software with a search function using a menu screen recorded in a PBC compatible VCD. To play a disc with the PBC function OFF, carry out the following operations.
 - Designate the track number using the number buttons while the disc is stopped.
 - Designate the track number using I

 while the disc is stopped, and then press

 ▶(play).
- Press RÉTURN to go back to the upper layer during the PBC playback of a VCD or SVCD.

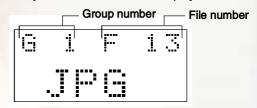
Example: When a CD is played



Example: When an MP3 disc is played



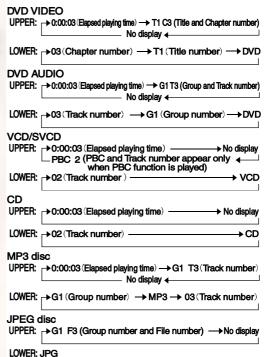
Example: When a JPEG disc is played



To switch the display

Press **UPPER** or **LOWER**. Each time you press the button, the display will be alternated.

Display examples

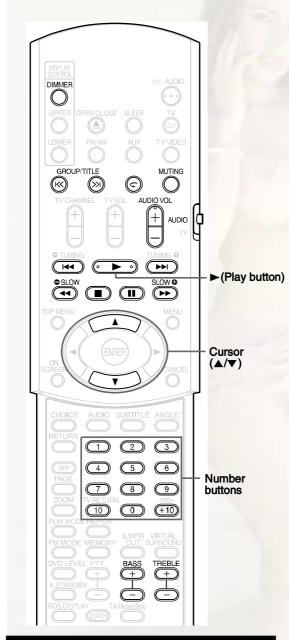


NOTE

Abbreviations

F: File

G: Group T: Title (DVD VIDEO) Track (DVD AUDIO and MP3) C: Chapter



Select what you want to play by using the number buttons

DVD DVD VCD SVCD C D MP3 JPEG

NOTE

- Set the remote control mode selector to
 AUDIO before using the number buttons.
- For a VCD or SVCD, this operation can be carried out when the disc is stopped, or during playback without the PBC function.
- For a DVD AUDIO, CD, MP3 or JPEG, this operation can also be carried out when the disc is stopped.
- This operation may not be carried out for some discs.

Designate the chapter number or track number to play during playback.

Refer to "How to use the number buttons" on page 15.

To stop playback

DVD DVD VCD SVCD C D MP3 JPEG

Press during playback.

To pause playback

DVD DVD VCD SVCD C D MP3 JPEG

Press II during playback.

To resume normal playback, press ►(play).

- Press II to pause during JPEG disc slide-show.
 Press ►(play) to start playback from the next file.
- It is not possible to pause by pressing ►/II on the main unit during JPEG disc slide-show.

To advance picture frame-by-frame

DVD SVCD VCD

Press II during pause.

Each time you press the button, picture will be advanced frame-by-frame.

Fast reverse/Fast forward search

DVD DVD VCD SVCD C D

There are two methods.

- Press

 or

 during playback.

 Each time you press the button, the speed increases (×2, ×5, ×10, ×20, ×60). To restore the normal speed, press

 (play).
- Hold down I or ►►I.
 Fast reverse/Fast forward search can be carried out only while the button is pressed (×5→×20).

NOTE

- Fast reverse/Fast forward search cannot be carried out for MP3 and JPEG.
- For a DVD VIDEO, SVCD or VCD, no sound comes out during fast reverse/fast forward search.
- For a CD or DVD AUDIO, sound is intermittent during fast reverse/fast forward search.

Playing back from a position 10 seconds before (One Touch Replay)

DVD VIDEO

Press \subset during playback.

NOTE

- This operation may not be carried out for some discs.
- It is not possible to go back to the immediately previous title.

Slow Motion Playback

DVD VCD SVCD

Press SLOW or SLOW during pause.

- Each time you press the button, the speed increases.
- Press II to pause playback, and press ►(play) to resume normal playback.

NOTE

- No sound will be produced.
- The picture motion in the reverse direction may not be smooth.
- For a VCD or SVCD, Slow Motion Playback can be carried out in the forward direction only.

Skip to the beginning of the selection

DVD DVD VCD SVCD C D MP3 JPEG

Press | **◄ or > during** playback*.

- Each time you press the button, the previous or next beginning of chapter/track/file to the current position will be skipped to.
- the chapter or track currently being played (except for JPEG).
- Press GROUP/TITLE ≫ or ⋉ to select the title or group.
- During playback of a JPEG disc, press ►►I or cursor ▼ to play the next file, or press I or cursor▲ to play the previous file.

NOTE

- * For a VCD or SVCD, this operation can be carried out during playback without the PBC function.
- · Except for a DVD VIDEO, this operation can also be carried out while the disc is stopped.
- This operation may not be carried out for some discs.

How to use the number buttons

Examples:

5: 5

15: (+10) → (5)

20: (+10) → (10)

25: (+10) → (+10) → (5)



Guide icons displayed on the TV screen (On-screen guide)



: Play



: Pause



: Fast reverse/Fast forward search



: Slow Motion Playback (reverse/ forward directions)



: Containing multi-angle views (☞ page 24)



Containing multi-audio languages (⊯ page 24)



: Containing multi-subtitle languages (**□** page Ž4)



: The disc cannot accept the operation you have attempted.

Playing MP3 and JPEG discs

To change the brightness of the display window (DIMMER)

Press DIMMER repeatedly.

 The modified brightness will be stored even after the power is turned off.

The items below can be carried out for all sources.

Adjusting the volume

Press AUDIO VOL +/-.

NOTE

The volume can be adjusted by turning the VOLUME control on the main unit.

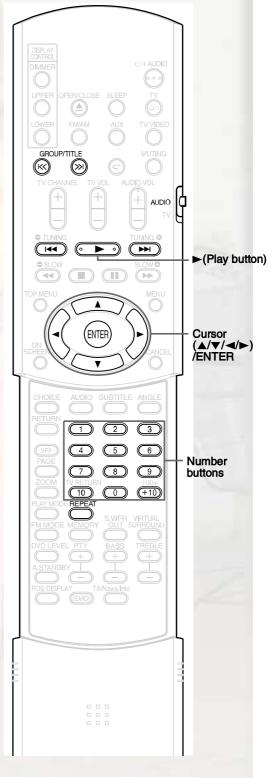
Adjusting sound quality

Bass: Press BASS +/-.
Treble: Press TREBLE +/-.

Turning off the sound temporarily (MUTING)

Press MUTING.

- No sound will come out from the speakers, headphones and the subwoofer.
- Press MUTING again to restore the sound.
 When the power is tuned off once and turned on again, the sound will be restored.



NOTE

Set the remote control mode selector to **AUDIO** before using the number buttons.



Playback

MP3 JPEG

Display of an MP3 disc is described here as an example.

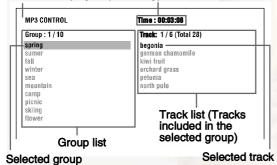
For a JPEG disc, read "track" as "file".

NOTE

When playing a disc containing both MP3 and JPEG files, set one of them to be played (page 29).

1 Load a disc.

TV screen Elapsed time of the track currently being played (MP3 only).



- 2 Press cursor ▲/▼ to select a group.
- 3 Press cursor ► to move to the track list.
- 4 Press cursor ▲/▼ to select a track.
- 5 Press ►(play) or ENTER.

NOTE

- GROUP/TITLE KK, >>> can also be used in Step 2.
- The number buttons can also be used in Step 4. In this case, Steps 3 and 5 are not needed. (For how to use the number buttons, refer to page 15).
- I◄◄ or ▶►I can also be used in Step 4. In this case, Step 3 is not needed.

Repeat playback

MP3 JPEG

Press REPEAT while the disc is stopped.

Each time you press the button, the Repeat type will be alternated.

Repeat types	Display on the TV screen	Display on the display window on the main unit
Repeats the current track (only for MP3).	REPEAT TRACK	Ç
Repeats the current group.	REPEAT GROUP	C) ALL(<*
Repeats the entire disc.	REPEAT ALL	Ģ ALL
Cancels repeat.	No display	No display
Repeats the current track during a Program or Random Playback (only for MP3).	REPEAT STEP	Ç
Repeats all programmed tracks or the all tracks for Random play (only for MP3).	REPEAT ALL	Ç ALL

* > represents blinking.

2 Press ►(play).

NOTE

- The Repeat types can be changed during playback.
- The Repeat mode will be automatically cancelled if there is a file that cannot be played (page 3).

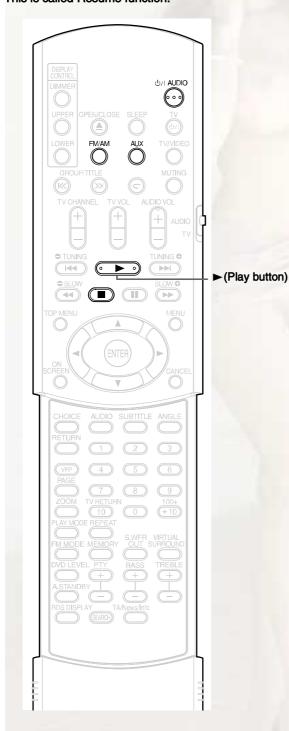
Slide-Show Playback JPEG

- In Step 5, for a JPEG disc, when ►(play) is pressed, files will be continuously played from the selected file (Slide-Show Playback), and when **ENTER** is pressed, only a selected file will be played.
- Display time for a file in Slide-Show Playback is about 3 seconds.
- When all files are played through, the playback will be automatically stopped.

Resume Playback

DVD DVD VCD SVCD

When playback is stopped in the middle, playback can be started from the stopped scene. This is called Resume function.



How to suspend playback

Perform any of the following operations during playback.

Press ■ once.*

Press O/I AUDIO to turn off the power.

Change the source to FM/AM or AUX.*

* Even if the power is turned off by pressing O/IAUDIO after this, the position where playback has been stopped will be stored.



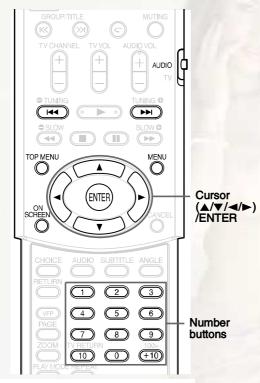
To start playback from the stored position

Press ►(play).

NOTE

- This function does not work in Program Playback or Random Playback.
- The position where playback starts again may be a little different from the stopped position.
- When a disc menu is displayed, the Resume function may not work.
- The audio language, the subtitle language and the angle at that time are stored as well as the stopped position.
- The stored position will be cleared if the disc tray is opened. Further, if ■ is pressed during playback, "RESUME" will be displayed. If ■ is pressed at this time, "RESUME OFF" will be displayed and the stored information will be cleared.
- At the time of purchase, Resume is set to ON.
 Resume can be set to OFF (

 page 30).



NOTE

Set the remote control mode selector to AUDIO before using the number buttons.



Select from the menu

DVD DVD VCD SVCD

- Press MENU or TOP MENU while the disc is stopped or during playback*1.
 - · The disc menu screen will be displayed.
 - Only TOP MENU can be used for DVD AUDIOs.
- 2 Press cursor ▲/▼/◄/►(only for a DVD VIDEO or DVD AUDIO) or the number buttons to select the scene to be played.
 - Refer to "How to use the number buttons" (pr page 15).
 - When the menu screen has a couple of pages, press I◄◄or ►►I to change the page (only for a VCD and SVCD).
- **3** Press ENTER.

NOTE

*1 For a VCD and SVCD, this operation can be carried

- out only when the PBC function is off.
- This operation cannot be carried out for a disc without a menu screen.
- Playback may start for some discs without pressing ENTER.

Designate the time (Time search)

DVD DVD VCD SVCD CD

Press ON SCREEN twice during playback*2.

The menu bar will be displayed (pg page 28).

- **2** Press cursor **√** ▶ to select **①** ▶.
- 3 Press ENTER.
- 4 Input the time^{*3} using the number buttons (1-9, 0).

Example: When you want to play a DVD VIDEO from the position of (0 hour) 23 minutes 45 seconds, press the buttons in the order:



"minutes" and "seconds" can be omitted.

If you input wrong numbers, press cursor to delete the numbers and re-input.

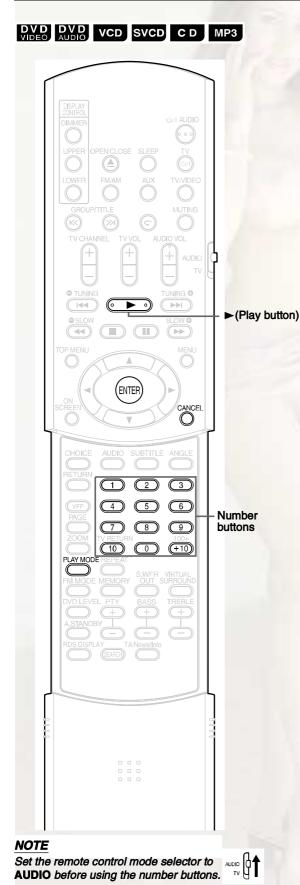
5 Press ENTER.

To delete the menu bar, press ON SCREEN.

NOTE

- This function does not work for a DVD VIDEO with no time information recorded.
- This function does not work during Program or Random Playback.
- *2 For a CD, this operation can always be carried out, while, for a VCD and a SVCD, the operation can be carried out when the disc is stopped or during playback without the PBC function.
- *3 Time search for a DVD VIDEO is from the beginning of the title, for a DVD AUDIO from the beginning of the track being played. Time search for a VCD, a SVCD and a CD is as follows:
- When the disc is stopped, time search is from the beginning of the disc.
- When the disc is being played, time search is within the track currently being played.

Program Playback/Random Playback



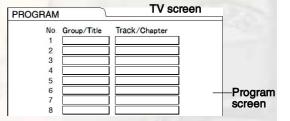
Play the disc in the desired order (Program Playback)

It is possible to program a maximum of 99 tracks or chapters. The same track or chapter can be programmed more than once.

While the disc is stopped, press PLAY MODE repeatedly to display "PRGM" on the display window on the main unit.

"PRGM" is an abbreviation for PROGRAM.

Example: For DVD VIDEO



2 Create a program following the description on the TV screen.

Refer to "How to use the number buttons" (** page 15).

- The input content varies depending on the disc type.
 - DVD VIDEO: Titles and chapters
 - VCD, SVCD, CD: Tracks
 - DVD AUDIO, MP3: Groups and tracks
- To select a DVD AUDIO bonus group, carry out the operations of "Playing the Bonus Group" on page 27 in advance to erase the display "BONUS".
- If the number of tracks or chapters input is greater than 99, "FULL" will be displayed.
- In the case of a CD, SVCD or VCD, when the total playback time reaches 9 hours 59 minutes 59 seconds, "--:--" will be displayed on the display window (It is possible to continue programming).

To program on the display window on the main unit, operate as follows.

- Select a group/title using the number buttons.
 Display example of the upper display window: T2 C--
- (2) Designate a track/chapter number using the number buttons. Display example of the upper display window: T2 C3
 - Refer to "How to use the number buttons" (propage 15).
 - The program number will be displayed on the lower display window (Example: "P2").
- (3) Repeat the above operations (1) and (2) to complete the program. Then, advance to Step 3.

NOTE

(Only for a DVD VIDEO, a DVD AUDIO or an MP3) If you press ENTER instead of designating a track/ chapter number, "ALL" is displayed and all of the tracks/chapters included in the selected group/title are programmed.

3 Press ►(play).

- To resume normal playback, press PLAY MODE repeatedly to display "NORMAL" on the display window on the main unit while the disc is stopped. The program content will not be erased.
- The following operations erase the program content.
 - Hold down CANCEL until "CLEAR!" appears on the display window with the program preference screen displayed (if CANCEL is pressed and released quickly, programs will be erased one by one).
 - Open the disc tray
 - Turn off the power

Playing the disc in a random order (Random Playback)

Press PLAY MODE repeatedly to display "RANDOM" on the display window on the main unit while the disc is stopped.

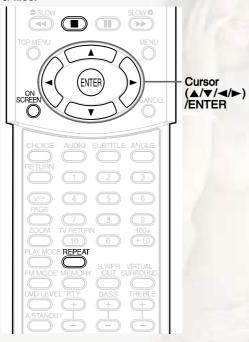
"RANDOM" will also be displayed on the TV screen.

2 Press ►(play).

- The same chapter or track will not be played twice.
- To resume normal playback, press PLAY MODE repeatedly to display "NORMAL" on the display window on the main unit while the disc is stopped.
- Random Playback will also be cancelled by carrying out the following operations.
 - Open the disc tray
- Turn off the power
- The previous track will not be returned to even if I◄◄ is pressed repeatedly during Random Playback (the beginning of the current chapter or track will be returned to).

Repeat Playback

Refer to page 17 for Repeat Playback of MP3 and JPEG files.



Playing the title/chapter/ group/track/all tracks repeatedly (REPEAT)

DVD DVD AUDIO VCD SVCD CD

Press REPEAT during playback.

Each time you press the button, the Repeat type will be alternated.

Example:

TV screen

Display window on the main unit





For DVD VIDEO

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current chapter	CHAP.	J
Repeats the current title	TITLE	C)ALL(<*
Cancels repeat	Ď OFF	No display

For DVD AUDIO

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current track	TRACK	G
Repeats the current group	GROUP	C)ALL(<*
Cancels repeat	(*)OFF	No display

* > crepresents blinking.

For CD/VCD/SVCD

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current track	TRACK	U
Repeats all tracks	Č ALL	Ģ ALL
Cancels repeat	Ď OFF	No display

NOTE

- For a DVD AUDIO and CD, this operation can always be carried out, while, for a VCD and SVCD, the operation can be carried out when the disc is stopped or during playback without the PBC function.
- It is possible to set Repeat on the menu bar. For how to operate, refer to "Playing the designated part repeatedly (A-B Repeat Playback)" (2 page 23).
- The abbreviations displayed on the main unit are as follows.

TRK: Track
CHP: Chapter
TI.: Title
GR.: Group

 For a DVD VIDEO and DVD AUDIO, if the source is switched to FM/AM or AUX, the Repeat mode will be cancelled

Repeat Playback during Program or Random Playback

Repeat types	Display on the TV screen	Display on the main unit
Repeats the current chapter or track	STEP or REPEAT STEP	Ç
Repeats all programmed tracks or all the tracks in Random Playback	ALL or REPEAT ALL	Ģ ALL
Cancels repeat	OFF or No display	No display

Playing the designated part repeatedly (A-B Repeat Playback)

DVD DVD VCD SVCD CD

Press ON SCREEN twice during playback.

The menu bar (page 28) will be displayed.

- Press cursor </ >

 → to select
- 3 Press ENTER.
- 4 Press cursor ▲/▼to display

A−B .

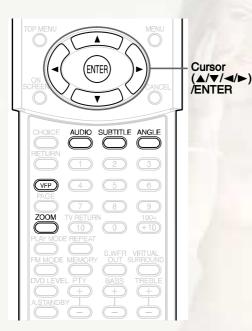
Other Repeat modes can be selected here. For other Repeat modes, refer to "Playing the title/chapter/group/track/all tracks repeatedly (REPEAT)" (page 22).

- 5 Press ENTER at the start point of the part to be repeated (designating A point).
 - The icon on the menu bar will be 🖒 🕒 .
- Press ENTER at the end point of the part to be repeated (designating B point).
 - The icon on the menu bar will be CAB.
 will appear blinking on the display window on the main unit and the part between A and B points will be played repeatedly.
 - A-B Repeat Playback will be cancelled by carrying out the following operations.
 - Press ■.
 - Select CAB and press ENTER twice.

NOTE

A-B Repeat Playback is possible only within the same title or track. A-B Repeat Playback cannot be carried out during PBC playback, Program Playback, Random Playback and Repeat Playback.

Other convenient functions



Selecting the subtitles

VIDEO SVCD DVD AUDIO

(only for moving image)

Press SUBTITLE during playback of a disc containing subtitles in several languages.

Example:



- Each time you press the button, the subtitle will be alternated between ON/OFF.
- 2 Press cursor ▲/▼ to select a subtitle language.
 - For a language code such as "AA", refer to "Language codes" (
 page 41).
 - The manner of displaying subtitle languages may be different depending on the disc.
- Wait for a few seconds or press ENTER.

NOTE

- It is possible to operate by using the menu bar (page 28).
- For a SVCD, each time you press SUBTITLE in Step 1, the subtitle type and ON/OFF will be alternated.

Selecting the audio language

DVD DVD VCD SVCD

Press AUDIO during playback of a disc containing several audio languages.

Example:



- Each time you press the button, the audio language will be alternated. Also, the audio language can be changed by pressing cursor ▲/▼.
- For a language code such as "AA", refer to "Language codes" (127 page 41).
- "ST", "L" and "R" displayed when playing a VCD or SVCD respectively represent "Stereo", "left sound" and "right sound".
- **2** Wait for a few seconds or press ENTER.

NOTE

It is possible to operate by using the menu bar (page 28).

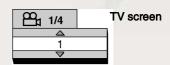
Selecting a view angle

DVD DVD

(only for moving image)

Press ANGLE during playback of a scene containing multi-view angles.

Example:



- Each time you press the button, the angle will be alternated. Also, the angle can be changed by pressing cursor ▲/▼.
- **2** Wait for a few seconds or press ENTER.

NOTE

It is possible to operate by using the menu bar (page 28).

Enlarging the picture (ZOOM)

DVD VCD SVCD JPEG DVD

(only for moving image)

Press ZOOM during playback or while paused.

- Each time you press the button, the picture magnification will be changed.
- (For a JPEG) You cannot change the picture magnification during slide-show playback.

2 Select the portion you want to see by using cursor △/▼/◄/►.

 To resume normal playback, select "OFF" in Step 1.

Adjusting the picture quality (VFP)

DVD DVD VCD SVCD JPEG

Press VFP during playback or while paused.

"VFP SET" will appear on the display window on the main unit and the current setting will be displayed on the TV screen.

NORMAL	
GAMMA	
BRIGHTNESS	0
CONTRAST	0
SATURATION	0
TINT	0
SHARPNESS	0

- Gamma: Controls brightness of neutral tints while maintaining brightness of dark and bright portions.
- Sharpness: Controls screen sharpness.

2 Press cursor <-> /▶ to select VFP mode.

- It is recommended to select "NORMAL" usually, or "CINEMA" in a dark room. When either "NORMAL" or "CINEMA" is selected, go to Step 7.
- When either "USER 1" or "USER 2" is selected, the adjustment can be carried out in detail in the operations after Step 3.

3 Press cursor ▲/▼to select an item to be adjusted.

4 Press ENTER.

Example: TV screen

GAMMA

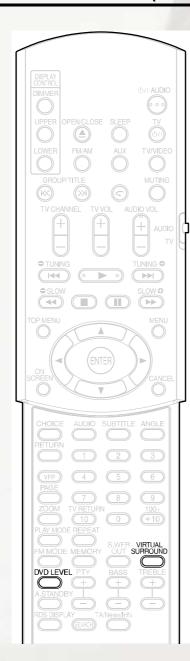
0

- 5 Press cursor ▲/▼to change the value.
- 6 Press ENTER.

 To adjust other items, go back to Step 3.
- **7** Press VFP.

NOTE

- If no operation is made for several seconds during the procedure, the settings made so far will be automatically stored.
- · "VFP" is an abbreviation of "Video Fine Processor".



Creating realistic sound (VIRTUAL SURROUND)

DVD DVD VCD SVCD C D MP3

The two speakers produce an effect resembling surround-sound.

Press VIRTUAL SURROUND during playback.



 Each time you press the button, the display toggles as follows.



 While VIRTUAL SURROUND is activated, "SURROUND" appears on the display window.

NOTE

- Virtual Surround is effective for the speakers and headphones.
- When noise is produced or sound is distorted, set VIRTUAL SURROUND to "OFF".
- You cannot operate some types of DVD AUDIO discs.
- "V.SUR." displayed on the display window is an abbreviation of "Virtual Surround".

Adjusting playback level (DVD LEVEL)

DVD DVD VIDEO AUDIO

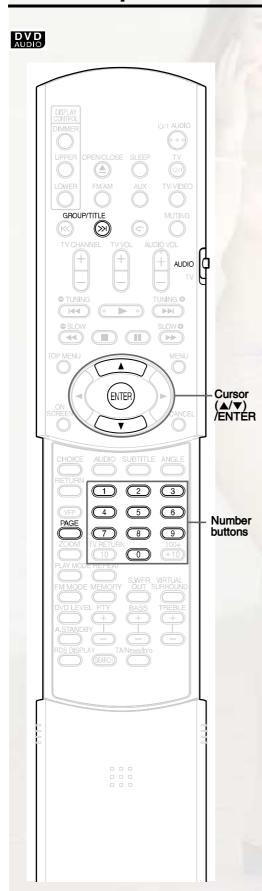
The audio of a DVD VIDEO and DVD AUDIO may be recorded at a lower level (volume) than for other types of disc. If the difference is not to your liking, adjust the DVD Level.

Press DVD LEVEL during playback.

- Each time you press the button, the level will be alternated among "NOR" (Normal), "MID" (Middle) and "HIG" (High).
- Select the level while listening to the sound played.

NOTE

- DVD Level is effective only for playback of a DVD.
- Even if the DVD Level is changed, the output level from the digital audio output terminal will not be changed.
- This operation can be carried out while the disc is stopped or paused.



NOTE

Set the remote control mode selector to AUDIO before using the number buttons.

Playing the Bonus Group

There are some DVD AUDIO discs with a special group, called "Bonus Group", recorded.

NOTE

This operation can be carried out when "BONUS" is lit on the display window on the main unit.

- Press GROUP/TITLE >>> repeatedly during playback to select a bonus group.
 - "KEY____" appears on the TV screen, and on the display window on the main unit.
- 2 Press the number buttons to enter a pin code (4 digits).

The method of getting a pin code may be different depending on the disc.

- 3 Press ENTER.
 - When a correct pin code is entered,
 "BONUS" disappears and the playback of the bonus group starts.
 - If an incorrect pin code is entered, try entering a correct pin code again.

Browsable Still Pictures (B.S.P.)

There are some DVD AUDIO discs with still pictures recorded. Among the still pictures, there are pictures called B.S.P. (Browsable Still Pictures). With these pictures, it is possible to switch a picture as if turning over pages.

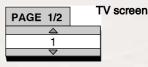
NOTE

This operation can be carried out when "B.S.P." is lit on the display window on the main unit.

Press PAGE during playback.

Each time you press the button, the still picture will be switched over. It is also possible to switch the picture using cursor $\blacktriangle/\blacktriangledown$.

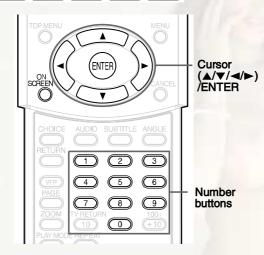
Example:



2 Wait for a few seconds or press ENTER.

Using the menu bar

DVD DVD VCD SVCD CD



NOTE

- Set the remote control mode selector to AUDIO before using the number buttons.

 Ty
- This operation can be carried out when there is a disc loaded. There are some functions that may not work while the disc is stopped.

1 Press ON SCREEN twice.

"ON SCREEN" will appear on the display window on the main unit. The status bar and the menu bar will appear on the TV screen.



The above is an example for a DVD VIDEO.

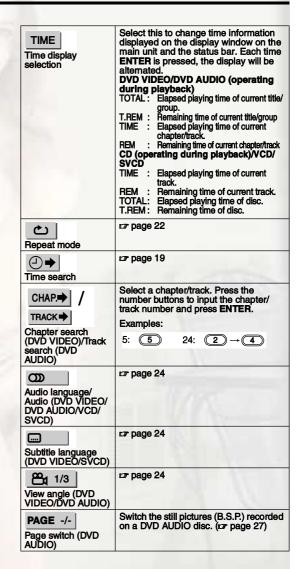
2 Press cursor <-- /> ✓ to select an item to be operated.

3 Press ENTER.

- The selected function can be set. For the setting content, refer to the following "Functions list".
- · The currently active function shows blue.
- To delete the menu bar, press ON SCREEN.

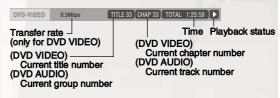
Functions list

For the functions with no special description for the operations, press cursor ▲/▼ to select, and press ENTER to determine.



Information displayed on the status bar

DVD VIDEO/DVD AUDIO (the example below is for a DVD VIDEO)

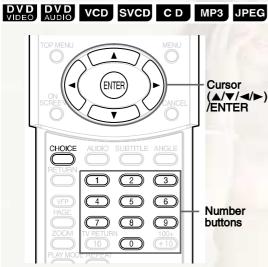


VCD/SVCD/CD (the example below is for a CD)



NOTE

The playback status mark has the same meaning of the mark on the On-screen guide (propage 15).



The initial settings of the system can be changed according to the environment the system is used

NOTE

- Set the remote control mode selector to AUDIO before using the number buttons.
- The top and bottom of the preference screen may not be displayed on a wide TV. Adjust the picture size on the TV.

Basic operations

- Press CHOICE while the disc is stopped or no disc is loaded ("NO DISC" is displayed).
 - · "SETTING" will appear on the display window on the main unit and the following screen will be displayed on the TV.

MENU LANGUAGE	ENGLISH	
AUDIO LANGUAGE	ENGLISH	
SUBTITLE	ENGLISH	
ON SCREEN LANGUAGE	ENGLISH	

· Proceed with operations by following the description on the TV screen.



LANGUAGE

NOTE

- If the selected language is not recorded on the disc, the optimum language set for the disc will be displayed.
- For a language code such as "AA", refer to the "Language codes" (page 41).

Items	Contents
MENU LANGUAGE	Select the language for the DVD VIDEO menu.
AUDIO LANGUAGE	Select the audio language for the DVD VIDEO.
SUBTITLE Select the subtitle language for the DV VIDEO.	
ON SCREEN LANGUAGE	Select the language displayed on the preference screens.



MP3/JPEG

Items	Contents (: initial setting)
MONITOR TYPE	Select a display method suitable for your TV 16:9 NORMAL: Select this when the aspect ratio of your wide TV is fixed to 16:9 (when playing a DVD VIDEO recorded at 4:3, the system automatically adjusts the screen width of the output signal).
	16 : 9 AUTO:
	Select this when your TV is an ordinary wide TV.
	4:3 LB (Letter Box): Select this when the aspect ratio of your TV is conventional 4:3. While viewing a wide scree picture, the black bars appear on the top and bottom of the screen.
	4:3 PS (Pan Scan): Select this when the aspect ratio of your TV is conventional 4:3. While viewing a wide scree picture, the left and right edges of the picture will not be shown on the screen. (If the disc is not compatible with Pan Scan, the picture will be displayed at the Letter Box ratio.)
PICTURE SOURCE	Select an item suitable to the video source. AUTO: The video source type (a video or film) is automatically selected. FILM: Select this item when you want to view a film or video recorded with the progressive scan method. VIDEO: Select this item when you want to view a normal video.
SCREEN SAVER	Select the Screen Saver mode between ON OFF (Screen Saver activates when there is n operation made for about 5 minutes since a

If there are both MP3 and JPEG files on a disc, you can select which files to play. When the preference has been changed, open/close the tray and turn on the power again. (A disc with only one of MP3 file or JPEG file recorded can be played regardless of this preference.)

\bigcirc

AUDIO

Items	Contents (: initial setting)
DIGITAL AUDIO OUTPUT	Select an output signal type from the following in accordance with the device connected to the digital audio output terminal (AV amplifier, etc.). (See the list below for the preference items and output signal.)
	PCM ONLY: Device corresponding only to linear PCM.
	DOLBY DIGITAL/PCM: Dolby digital decoder or a device having the same function.
	STREAM/PCM: DTS/Dolby digital decoder or a device having the same function.
DOWN MIX	Switch signal from the digital output terminal of the DVD VIDEO according to the connected device. Select this when Digital Audio Output is set to "PCM ONLY".
	DOLBY SURROUND: A Dolby Pro Logic decoder-built-in device.
	STEREO: An ordinary device.
	When Virtual Surround is ON, Down Mix does not work.
D (Dynamic). RANGE COMPRESSION	To make adjustments for the difference between a high volume and a low volume when playing back with low volume (only for a DVD recorded with Dolby digital).
	AUTO: D. Range Compression automatically works.
	ON: D. Range Compression always works.



OTHERS

Items	Contents (: initial setting)		
RESUME	Select ON /OFF. (car page 18)		
ON SCREEN GUIDE	Select ON /OFF. (cr page 15)		
AV COMPULINK MODE	This item is currently not used. (This is provided for future use.)		
PARENTAL LOCK	Set the Parental Lock function to cut off violent scenes or replace the scenes with others. (This is effective only for discs equipped with the Parental Lock function.)		
	COUNTRY CODE (127 page 31) Select your country.		
	SET LEVEL: The restriction is stricter as the number becomes smaller. "NONE" is no restriction.		
1	PASSWORD (essential): Enter four-digit number as your password using the number buttons (1-9, 0) every time. (Enter "8888" if you forget your password.) The password is required at the time of playback.		
	If you enter a wrong password three times, "EXIT" will be automatically selected.		

List of relationships of DIGITAL AUDIO OUTPUT preference items and output signal

Dischaels dies	DIGITAL AUDIO OUTPUT preference		
Playback disc	STREAM/PCM	DOLBY DIGITAL/PCM	PCM ONLY
48 kHz, 16/20/24 bits Linear PCM DVD VIDEO 96 kHz linear PCM DVD VIDEO	48 kHz, 16 bits stereo linear PCM		
48/96/192 kHz, 16/20/24 bits linear PCM DVD AUDIO	48 kHz, 16 bits stereo linear PCM		
44.1/88.2/176.4k Hz, 16/20/24 bits linear PCM DVD AUDIO	44.1 kHz, 16 bits stereo linear PCM		
DTS DVD VIDEO	DTS bit stream 48 kHz, 16 bits stereo linear PCM		stereo linear PCM
DOLBY DIGITAL DVD VIDEO/ DVD AUDIO	DOLBY DIGITAL bit stream 48 kHz		48 kHz, 16 bits stereo linear PCM
CD/VCD/SVCD	44.1 kHz, 16 bits stereo linear PCM/48kHz, 16 bits linear PCM		
DTS CD	DTS bit stream	44.1 kHz, 16	bits linear PCM
MP3 disc	No output		

NOTE

For a DVD VIDEO without content protection set, there is a 20 bit or 24 bit output at the digital audio output terminal

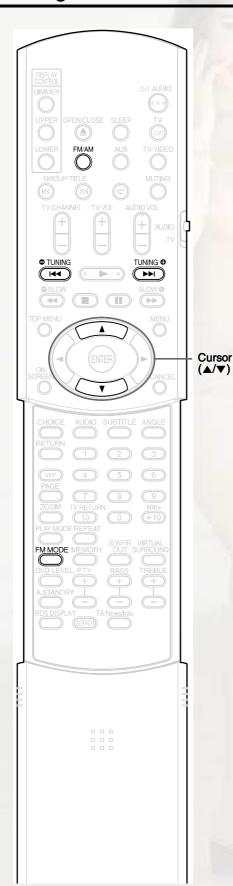
AD	Andorra	ES	Spain
AE	United Arab Emirates	ET	Ethiopia
AF	Afghanistan	FI	Finland
AG	Antigua and Barbuda	FJ	Fiji
Al	Anguilla	FK	Falkland Is
AL	Albania		(Malvinas)
AM	Armenia	FM	Micronesia
AN	Netherlands Antilles		(Federated
AO	Angola	FO	Faroe Islan
AQ	Antarctica	FR FX	France
AR	Argentina		France, Me
AS AT	American Samoa	GA	Gabon
AU	Austria Australia	GB GD	United King Grenada
AW	Aruba	GE	Georgia
AZ	Azerbaijan	GF	French Gui
BA	Bosnia and	GH	Ghana
	Herzegovina	GI	Gibraltar
ВВ	Barbados	GL	Greenland
BD	Bangladesh	GM	Gambia
BE	Belgium	GN	Guinea
BF	Burkina Faso	GP	Guadeloup
BG	Bulgaria	GQ	Equatorial
BH	Bahrain	GR	Greece
BI	Burundi	GS	South Geor
BJ	Benin		the South S
BM	Bermuda		Islands
BN	Brunei Darussalam	GT	Guatemala
ВО	Bolivia	GU	Guam
BR	Brazil	GW	Guinea-Bis
BS	Bahamas	GY	Guyana
BT	Bhutan	HK	Hong Kong
BV	Bouvet Island	HM	Heard Islan
BW	Botswana Belarus	HN	McDonald Honduras
BZ	Belize	HR	Croatia
CA	Canada	HT	Haiti
CC	Cocos (Keeling)	HU	Hungary
"	Islands	ID	Indonesia
CF	Central African	IE	Ireland
	Republic	IL	Israel
CG	Congo	IN	India
CH	Switzerland	10	British India
CI	Côte d'Ivoire		Territory
CK	Cook Islands	IQ	Iraq
CL	Chile	IR	Iran (Islamic
CM	Cameroon	IS	Iceland
CN	China	IT III	Italy
CO	Colombia	JM	Jamaica
CR	Cuba	JO	Jordan
CV	Cuba Cape Verde	J P KE	Japan Kenya
CX	Christmas Island	KG	Kyrgyzstan
CY	Cyprus	KH	Cambodia
CZ	Czech Republic	KI	Kiribati
DE	Germany	KM	Comoros
DJ	Djibouti	KN	Saint Kitts
DK	Denmark	KP	Korea, Den
DM	Dominica	L	People's Re
DO	Dominican Republic	KR	Korea, Rep
DZ	Algeria	KW	Kuwait
EC	Ecuador	KY	Cayman Isl
EE	Estonia	KZ	Kazakhstar
EG	Egypt	LA	Lao People
EH	Western Sahara		Democration
ER	Eritrea	LB	Lebanon

ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands
	(Malvinas)
FM	Micronesia
FO	(Federated States of) Faroe Islands
FR	France
FX	France, Metropolitan
GA	Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and
	the South Sandwich
	Islands
GT	Guatemala
GU	Guam Cuines Bissey
GW	Guinea-Bissau
GY HK	Guyana Hong Kong
HM	Heard Island and
1 1141	McDonald Islands
HN	Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
ΙE	Ireland
IL	Israel
IN	India
Ю	British Indian Ocean
	Territory
IQ.	Iraq
IR	Iran (Islamic Republic of)
IS IT	Iceland
IT IM	Italy
JM JO	Jamaica Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
KP	Korea, Democratic
	People's Republic of
KR	Korea, Republic of
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Lao People's
	Democratic Republic

LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV LY	Latvia Libyan Arab
Li	Jamahiriya
MA	Morocco
MC	Monaco
MD	Moldova, Republic of
MG	Madagascar
МН	Marshall Islands
ML	Mali
MM	Myanmar
MN	Mongolia
МО	Macau
MP	Northern Mariana
	Islands
MQ	Martinique
MR MS	Mauritania Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC	New Caledonia
NE	Niger
NF	Norfolk Island
NG NI	Nigeria
NL	Nicaragua Netherlands
NO	Norway
NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
ОМ	Oman
PA	Panama
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL PM	Poland Saint Pierre and
' '*'	Miquelon
PN	Pitcairn
PR	Puerto Rico
PT	Portugal
PW	Palau
PY	Paraguay
QA	Qatar
RE	Réunion
RO	Romania
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands Seychelles
_ 50	GoyGridiles

SD	Sudan	
SE	Sweden	
SG	Singapore	
SH	Saint Helena	
SI	Slovenia	
SJ	Svalbard and Jan	
	Mayen	
SK	Slovakia	
SL	Sierra Leone	
SM	San Marino	
SN	Senegal	
SO	Somalia	
SR	Suriname	
ST	Sao Tome and Principe	
SV	El Salvador	
SY	Syrian Arab Republic	
SZ	Swaziland	
TC	Turks and Caicos	
	Islands	
TD	Chad	
TF	French Southern	
	Territories	
TG	Togo	
TH	Thailand	
TJ	Tajikistan	
TK	Tokelau	
TM	Turkmenistan	
TN	Tunisia	
ТО	Tonga	
TP	East Timor	
TR	Turkey	
П	Trinidad and Tobago	
TV	Tuvalu	
TW	Taiwan	
TZ	Tanzania, United	
——	Republic of	
UA	Ukraine	
UG	Uganda	
UM	United States Minor	
110	Outlying Islands	
US	United States	
UY	Uruguay Uzbekistan	
UZ VA	Vatican City State	
*^	(Holy See)	
vc	Saint Vincent and the	
**		
VE	Grenadines	
	Venezuela Virgin Jelande (British)	
VG VI	Virgin Islands (British) Virgin Islands (U.S.)	
VN	Virgin Islands (0.5.)	
VIN	Viet Nam Vanuatu	
WF	Wallis and Futuna	
AAL	Islands	
ws	Samoa	
YE	Yemen	
YT	Mayotte	
YU	Yugoslavia	
ZA	South Africa	
ZM	Zambia	
ZR	Zaire	
ZW	Zimbabwe	

Listening to a radio broadcast

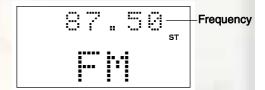


You can tune in to FM or AM.

Selecting a station

Press FM/AM.

Each time you press the button, the band will be alternated between FM and AM. **Example:**



2 Press TUNING ○ or TUNING ○ to select the station (frequency).

Automatic tuning:

Hold down **TUNING ⊕** or **TUNING ⊕** until the system starts searching, and then release the button.

When a station of sufficient signal strength is tuned in to, the system stops searching automatically.

To stop searching manually, press TUNING ⊕ or TUNING ⊕.

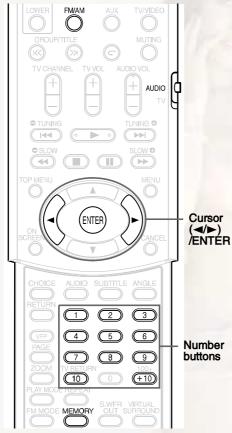
Manual tuning:

Each time you press **TUNING** \bigcirc or **TUNING** \bigcirc , the frequency changes.

- When an FM stereo program is received, the "ST" (Stereo) indicator lights.
- You can also select the station with cursor ▲/▼.

NOTE

If the stereo FM program currently tuned in to is noisy, you can improve the reception by pressing FM MODE to switch to the monaural mode ("MONO" lights). If you press FM MODE again, or tune in to another station, the receiving mode returns automatically to the stereo mode.



Presetting stations in the system allows you to easily tune in to a station.

NOTE

Set the remote control mode selector to **AUDIO** before using the number buttons.



Presetting stations

The system stores up to 30 FM stations and up to 15 AM stations.

- Select a station you want to store (page 32 for how to select).
- **2** Press MEMORY.

Figures (memory number) blink on the display window for about 5 seconds.

- 3 Select the number you want to store by pressing cursor
 ✓/►
 while the memory number is blinking.
 - You can also select the number by using the number buttons.
 - Refer to "How to use the number buttons" (propage 15).
- 4 Press MEMORY or ENTER while the selected number is blinking.

"SET" will be displayed and the selected station will be stored.

NOTE

Storing a new station to a used number erases the previously stored station.

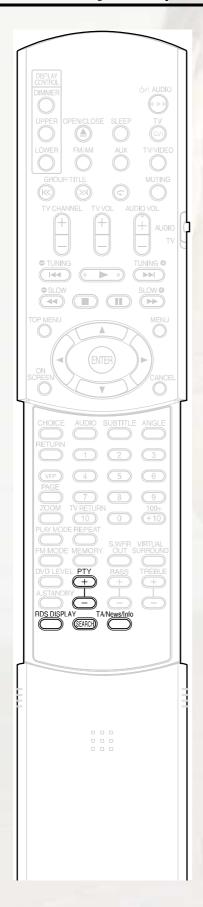
Tuning in to a preset station

- Press FM/AM repeatedly to select either FM or AM.
- 2 Press the number buttons to select the memory number of a station you want to tune in to.

Refer to "How to use the number buttons" (page 15).

You can also select by pressing cursor ◄/▶.

Radio Data System (RDS)



Receiving FM stations with RDS

RDS (Radio Data System) allows FM stations to send an additional signal along with their regular program signals.

For example, the stations send their station names, as well as information about what type of program they broadcast, such as sports or music, etc.

When tuned to an FM station which provides the RDS service, "RDS" appears on the display window on the main unit.

Example:



You can receive the following types of RDS signals.

PS (Program Service):

Shows commonly known station names.

PTY (Program Type):

Shows types of broadcast programs.

RT (Radio Text):

Shows text messages the station sends.

Enhanced Other Networks:

Refer to page 37.

NOTE

RDS may not work correctly if the received station is not transmitting the signals properly or if the signal strength is weak.

Alarm function

If an "Alarm !" (Emergency) signal is received from a station while listening to the FM station with RDS, the system automatically switches to the station broadcasting the "Alarm !" signal, except when you are listening to non-RDS stations (all AM and some FM stations).

Changing the RDS information

You can see RDS information on the display window on the main unit while listening to an FM station.

Press RDS DISPLAY repeatedly while listening to an FM station.

PS (Program Service):

While searching, "WAIT PS" appears and then the station names will be displayed. "NO PS" appears if no signal is sent.

PTY (Program Type):

While searching, "WAIT PTY" appears and then the type of the broadcast program will be displayed. "NO PTY" appears if no signal is sent.

RT (Radio Text):

While searching, "WAIT RT" appears and then text messages the station sends will be displayed. "NO RT" appears if no signal is sent.

NOTE

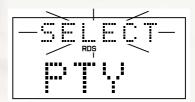
- If the system takes time to show the RDS information received from a station, "PS", "PTY" or "RT" may appear on the display window.
- When PS, PTY, or RT signals appear on the display window, some special characters and marks may not be displayed correctly.

Searching for programs by PTY codes (PTY Search)

One of the advantages of RDS is that you can locate a particular kind of program by specifying the corresponding PTY code.

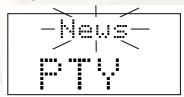
 The PTY Search is applicable only to the preset stations.

Press SEARCH when the source is FM.



2 Press PTY or PTY repeatedly to select a PTY code while "SELECT" is flashing.

Example: when "News" is selected as a PTY code



- · Refer to page 36 for the PTY codes.
- 3 Press SEARCH.

While searching, "SEARCH" and the selected PTY codes will be displayed.

Example: when "News" is selected as a PTY code



The system searches 30 preset FM stations, and stops when it finds the one you have selected. At this time the selected frequency and PTY code flash. When "SEARCH" is pressed while the selected frequency and PTY code are flashing, the system automatically starts to find the next station. After the frequency and PTY code stop flashing or if any other operation is done, the system automatically tunes in to the station.

To stop searching, press SEARCH.

If no program is found, "NOTFOUND" appears on the display window and the system returns to the last received station.

Radio Data System (RDS) (continued)

PTY codes:

News.
Topical program expanding or enlarging upon the news-debate, or analysis.
Programs the purpose of which is to impart advice in the widest sense.
Programs concerned with any aspect of sports.
Educational programs.
All radio plays and serials.
Programs concerning any aspect of nationa or regional culture, including language, theater, etc.
Programs about natural sciences and technology.
Used for mainly speech-based programs such as quizzes, panel games and personality interviews.
Commercial music of current popular appeal.
Rock music.
Current contemporary music considered to be "easy-listening".
Instrumental music, and vocal or choral works.
Performances of major orchestral works, symphonies, chamber music, etc.
Music not fitting into any of the other categories.
Weather reports and forecasts.

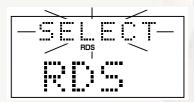
Finance:	Stock market reports, commerce, trading,
	etc.
Children:	Programs targeted at a young audience.
Social:	Programs about sociology, history,
	geography, psychology and society.
Religion:	Religious programs.
Phone In :	Involving members of the public expressing their views either by phone or at a public
	forum.
Travel :	Travel information.
Leisure :	Programs about recreational activities.
Jazz :	Jazz music.
Country :	Songs which originate from, or continue the musical tradition of the American Southern States.
Nation M :	Current popular music of the nation or region in that country's language.
Oldies :	Music from the so-called "golden age" of popular music.
Folk M :	Music which has its roots in the musical culture of a particular nation.
Document :	Programs concerning factual matters, presented in an investigative style.
TEST :	Broadcasts for testing emergency broadcast equipment or receiver.
Alarm ! :	Emergency announcement.

stations may be different from the above list.

Switching to a program type of your choice temporarily

The Enhanced Other Networks function allows the system to switch temporarily to a broadcast program of your choice (TA, News, or Info) from a different station when you are listening to a RDS station.

- Enhanced Other Networks function is applicable only to the preset stations.
- Press TA/News/Info while listening to an FM station with RDS.



While "SELECT" is flashing, press PTY or PTY repeatedly to select the Enhanced Other Networks data type you want.

Example: when "News" is selected as the data type



TA: Traffic announcement

News: News

Info: Programs the purpose of which is to impart advice in the widest sense.

OFF: The Enhanced Other Networks function is canceled.

While the data type is flashing, press TA/News/Info.



Now, this function is activated.

How the Enhanced Other Networks function actually works:

CASE 1

If there is no station broadcasting the program you have selected:

The system continues tuning in to the current station.

When a station starts broadcasting the program you have selected, the system automatically switches to the station. The data type starts flashing on the display window.

When the program is over, the system goes back to the previously tuned station, but the Enhanced Other Networks function still remains activated.

CASE 2

If there is a station broadcasting the program you have selected:

The system tunes in to the program. The data type starts flashing on the display window.

When the program is over, the system goes back to the previously tuned station, but the Enhanced Other Networks function still remains activated.

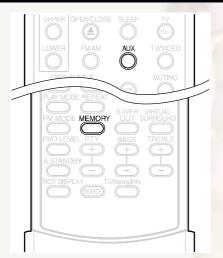
To cancel the Enhanced Other Networks function, select "OFF" in Step 2.

 The Enhanced Other Networks function will also be canceled when you change the source or when you turn off the main unit.

NOTE

- The Enhanced Other Networks data sent from some stations may not be compatible with this system.
- While listening to a program tuned in to by the Enhanced Other Networks function, the station does not change even if another network station starts broadcasting a program of the same Enhanced Other Networks data.
- If the stations alternate intermittently between the station tuned in to by the Enhanced Other Networks function and the currently tuned station, press TA/ News/Info to cancel the Enhanced Other Networks function

Listening to the sound of other audio device



Connect the other audio device to this system in advance (r page 10).

- Press AUX. The source changes to AUX.
- Play the other audio device. For details, refer to the manual of the device connected.
- 3 Adjust the volume and the sound quality of the system (r page 16).

Adjust the sound input level of the audio device

You can adjust the sound input level of another audio device connected to the AUX jack.

- Press AUX. The source changes to AUX.
- 2 Hold down MEMORY until an input level is displayed.

Each time you hold down the button, it switches as follows:

LEVEL 1: Select this normally.



LEVEL 2: Select this when the input level from the other device is too high and the sound is distorted.

The initial setting is "LEVEL1".

Auto Standby

DVD DVD VCD SVCD C D MP3 JPEG



If there is no operation for 3 minutes while the disc is stopped, the power will be automatically turned

Press A.STANDBY during playback or while the disc is stopped, or no disc is loaded ("NO DISC" is displayed).

"A.S.ON" (Auto Standby On) and "A.STANDBY" will be lit on the display window on the main unit.

When a stopped state is entered (after playback is finished, for example), "A.STANDBY" starts blinking.

This means that the power will be turned off automatically if there is no operation for 3 minutes. And, 20 seconds before the power is turned off, "POWER OFF" will appear blinking.

Releasing Auto Standby

Press A.STANDBY.

"A.S.OFF" (Auto Standby Off) will appear and "A.STANDBY" will be turned off on the display window on the main unit.

NOTE

When the source is FM/AM or AUX, Auto Standby does not work.

Sleep Timer

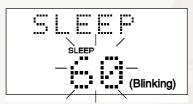


When the time you specify elapses, the system will be turned off by itself.

Press SLEEP.

Each time you press the button, the time indicated on the display window on the main unit changes (in minutes).

Example: When Sleep Timer is set to 60 minutes



Sleep Timer will be automatically set in a few seconds, and the indication will disappear.

NOTE

When Sleep Timer is set, the display window darkens automatically.

Changing the time

Reselect the time by pressing SLEEP repeatedly.

Confirming the time

Press SLEEP once while Sleep Timer is set.

Releasing

Press SLEEP repeatedly until "OFF" appears.

NOTE

Sleep Timer will also be released when the power is turned off.

Tray Lock

You can lock the disc tray to prevent the disc from being ejected.

Setting

Turn off the power. And while holding down ■(Stop) on the main unit, press ▲(Open/Close). "LOCKED" appears on the display window on the main unit.

Releasing

Carry out the same operations as those for setting. "UNLOCKED" appears on the display window on the main unit.

Troubleshooting

When you encounter a problem that seems to be a fault, check the following points before contacting your JVC service center:

Power source

- Power does not come on.
 - The power cord is not connected to the main unit or an AC outlet.
 - → Connect the power cord correctly.
 (□ page 11)

Operation

- You cannot operate any button.
 - Some specific operations may be inhibited for some discs.
- The remote control does not work.
 - The dry-cell batteries have run out.
 - → Replace the batteries. (☞ page 6)
- A disc cannot be played back.
 - In the case of DVD VIDEO discs
 - \rightarrow Check the Region Code number of the disc. (127 page 3)
 - "PLAYABLE Err" is displayed on the display window.
 - It is not a disc that can be played on this system.
 - \rightarrow Check the disc type. (\square page 3)
 - Parental Lock is set. (
 page 30)

About images

- No picture appears.
- The picture is distorted.
 - A VCR is connected between the main unit and the TV set.
 - ightarrow Connect the main unit directly to the TV set. ($\ensuremath{\imath}$ page 11)
- The screen size is abnormal.
 - The screen size is set improperly.
 - → Set "MONITOR TYPE" according to the TV set you are using. (regretation page 29)

■ The TV screen darkens.

- "SCREEN SAVER" is set.
 - \rightarrow If set, press any button. (\square page 29)

About sound

- There is no sound.
 - Speakers are not connected correctly.
 - \rightarrow \square page 9
 - The sound is muted.
 - \rightarrow \square page 16
 - "NO AUDIO" is displayed on the display window.
 - The disc may have been produced through illegal copying.
 - → Confirm at the store where you bought the disc.
- The sound is weak compared with TV or Video.
 - "DVD LEVEL" is set to "NOR".
 - → Set to other than "NOR". (car page 26)
- The sound is distorted.
 - The volume is turned up too high.
 - → Turn down the volume. (
 page 16)
- No sound comes out of the subwoofer.
 - "SUB WFR" is turned off.
 - → Press S.WFR OUT to turn on. (cr page 10)

About radio

- The sound is noisy while receiving./Receiving is disabled.
 - The antenna is not connected correctly.

Language codes

Others

- It is not possible to switch audio or subtitles between languages.
 - The disc does not contain 2 or more languages.
 - → If only a single language is recorded on the disc, switching to another language is impossible. (☑ page 24)

■ No subtitle is displayed.

- · The disc does not contain any subtitles.
 - → A DVD VIDEO without subtitles cannot display any subtitles.
- The subtitle language is set to "OFF".
 - → Specify a language. (F page 29)
- Before or after A point or B point in A-B Repeat Playback, no subtitle may be displayed.
- **■** The disc cannot be ejected.
 - · Tray Lock is set.
 - \rightarrow \square page 39
- "LR ONLY" is displayed on the display window (for a DVD AUDIO).
 - Because, for the track being played back, down mix is inhibited for multi-channel sound, the sound of L and R is output directly (a normal action).

If the system does not work properly despite correction measures above

Many functions of this system are implemented by microcomputers. If pressing any button does not result in the normal action, disconnect the power plug from the outlet, wait for a while, and reconnect the system.

	1 -		1-
Code	Language	Code	Language
AA	Afar	MK	Macedonian
AB	Abkhazian	ML	Malayalam
AF	Afrikaans	MN	Mongolian
AM	Ameharic	MO	Moldavian
AR	Arabic	MR	Marathi
AS	Assamese	MS	Malay (MAY)
AY	Aymara	MT	Maltese
AZ	Azerbaijani	MY NA	Burmese
BA BE	Bashkir Byelorussian	NE NE	Nauru
BG	Bulgarian	NE NL	Nepali
BH	Bihari	NO	Dutch Norwegian
ВІ	Bislama	OC	Occitan
BN	Bengali, Bangla	ОМ	(Afan) Oromo
BO	Tibetan	OR	Oriya
BR	Breton	PA	Panjabi
CA	Catalan	PL	Polish
CO	Corsican	PS	Pashto, Pushto
CS	Czech	PT	Portuguese
CY	Welsh	QU	Quechua
DA	Danish	RM	Rhaeto-Romance
DZ	Bhutani	RN	Kirundi
EL	Greek	RO	Rumanian
EO	Esperanto	RU	Russian
ET	Estonian	RW	Kinyarwanda
EU	Basque	SA	Sanskrit
FA	Persian	SD	Sindhi
FI	Finnish	SG	Sangho
FJ	Fiji	SH	Serbo-Croatian
FO	Faroese	SI	Singhalese
FY	Frisian	SK	Slovak
GA	Irish	SL	Slovenian
GD	Scots Gaelic	SM	Samoan
GL	Galician	SN	Shona
GN	Guarani	SO	Somali
GU	Gujarati	SQ	Albanian
HA	Hausa	SR	Serbian
H	Hindi	SS	Siswati
HR	Croatian	ST	Sesotho
HU	Hungarian	SU	Sundanese
HY	Armenian	SV	Swedish
IA	Interlingua	SW	Swahili
IE	Interlingue	TA	Tamil
IK	Inupiak	TE	Telugu
IN	Indonesian	TG	Tajik
IS	Icelandic	TH	Thai
IW	Hebrew	TI	Tigrinya
JI	Yiddish	TK	Turkmen
JW	Javanese	TL	Tagalog
KA	Georgian	TN	Setswana
KK	Kazakh	ТО	Tonga
KL	Greenlandic	TR	Turkish
KM	Cambodian	TS	Tsonga
KN KO	Kannada	TT	Tatar
KS	Korean (KOR)	TW UK	Twi Ukrainian
KU	Kashmiri Kurdish	UR	Urdu
KV	Kuraish Kirghiz	UZ	Uzbek
LA	Latin	VI	Vietnamese
LN		VO	Volapuk
LO	Lingala Laothian	wo	Wolof
LT	Lithuanian	XH	Xhosa
LV	Latvian, Lettish	YO	Yoruba
MG	Malagasy	ZU	Zulu
MI	Maori	20	Luiu
·VII	HIGOII		

Specifications

General

Power source: AC 230 V \sim , 50 Hz Power consumption: 24 W (in operation)

1.1 W (on standby)

Weight: 3.0 kg

External dimensions

(W×H×D): 232 mm ×100 mm ×269 mm

DVD player

Playable discs: DVD VIDEO, DVD AUDIO, VCD,

Super VCD, CD, CD-R/RW (CD, VCD, MP3, JPEG format), DVD-R/

RW (video format)

Video output

Color system: PAL
Horizontal resolution: 500 lines

SCART connector ×1

Audio output

Analog sound output: Speakers ×2

Output power

(IEC 268-3): 60 W (30W + 30 W)at $4 \Omega (10\% \text{ THD})$

Fitting impedance: 4Ω to 16Ω Headphones $\times 1$: $11 \text{ mW/32 } \Omega$ Fitting impedance: 16Ω to $1 \text{ k}\Omega$ Subwoofer $\times 1$: $500 \text{ mVrms/10 k}\Omega$

Digital sound output:

Optical ×1: -21 dBm to -15 dBm

Other output

AV COMPU LINK X2 (ø3.5)

Audio input

Sound input: AUX \times 1 Level 1: 250 mV/50 k Ω Level 2: 500 mV/50 k Ω

Tuner

FM tuner:

Receiving frequency: 87.50 MHz to 108.00 MHz Antenna: 75 Ω- unbalanced type

AM tuner:

Receiving frequency: 522 kHz to 1629 kHz
Antenna: External antenna jack (loop

antenna)

Speaker

Type: 1-way bass-reflex type
Magnetically shielded type

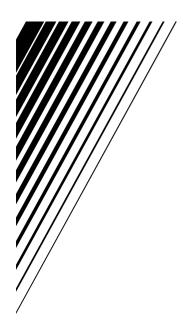
Speaker: 8 cm cone X 1

Power handling capacity: 30 W Impedance: 4 Ω Sound pressure level: 81 dB/W·m

Dimension (W X H X D): 120 mm X 161 mm X 239 mm

Weight (1 unit): 1.6 kg

Designs and Specifications are subject to change without notice.



JVC

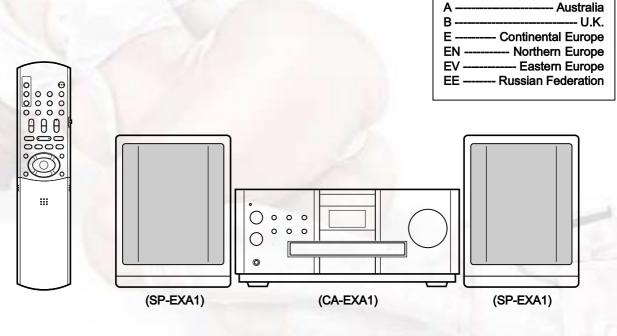
JVC

SCHEMATIC DIAGRAMS

COMPACT COMPONENT SYSTEM

EX-A1

CD-ROM No.SML200501



Contents

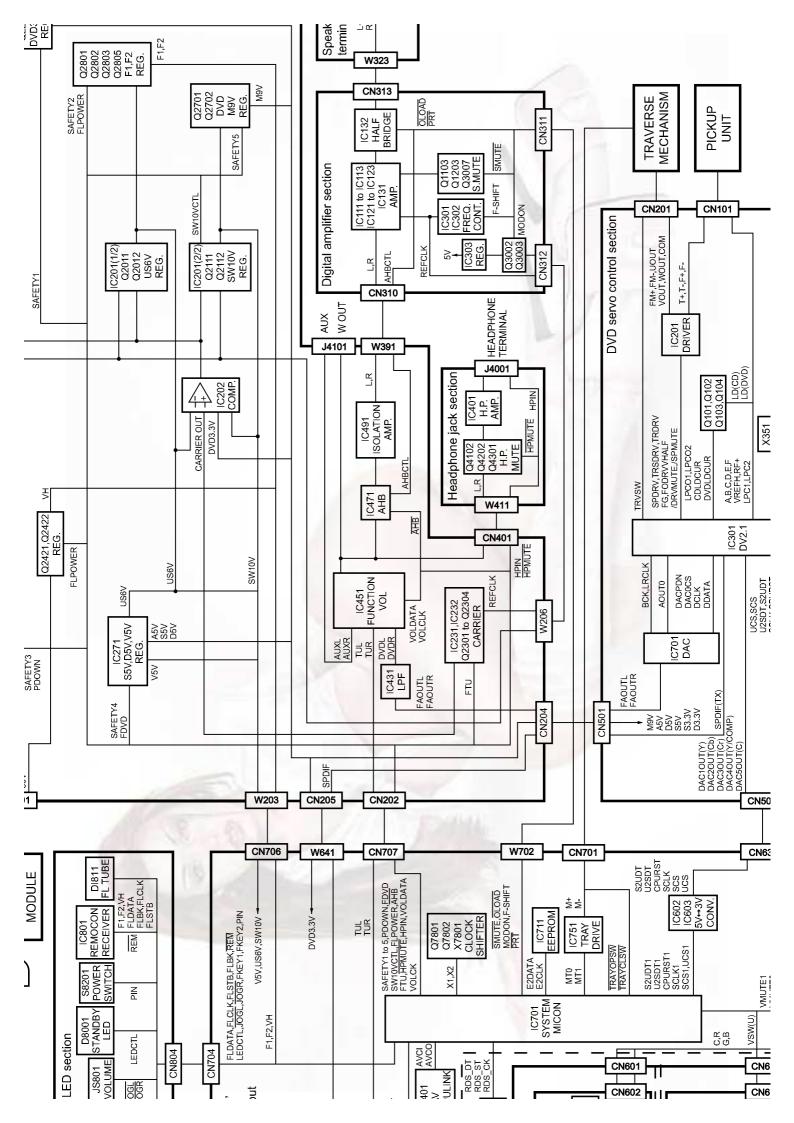
Block diagram — — — — — — — — — — — —	2-1
Standard schematic diagrams — — — — — — — — — —	2-2
Printed circuit boards — — — — — — — — — —	2-9 to 13

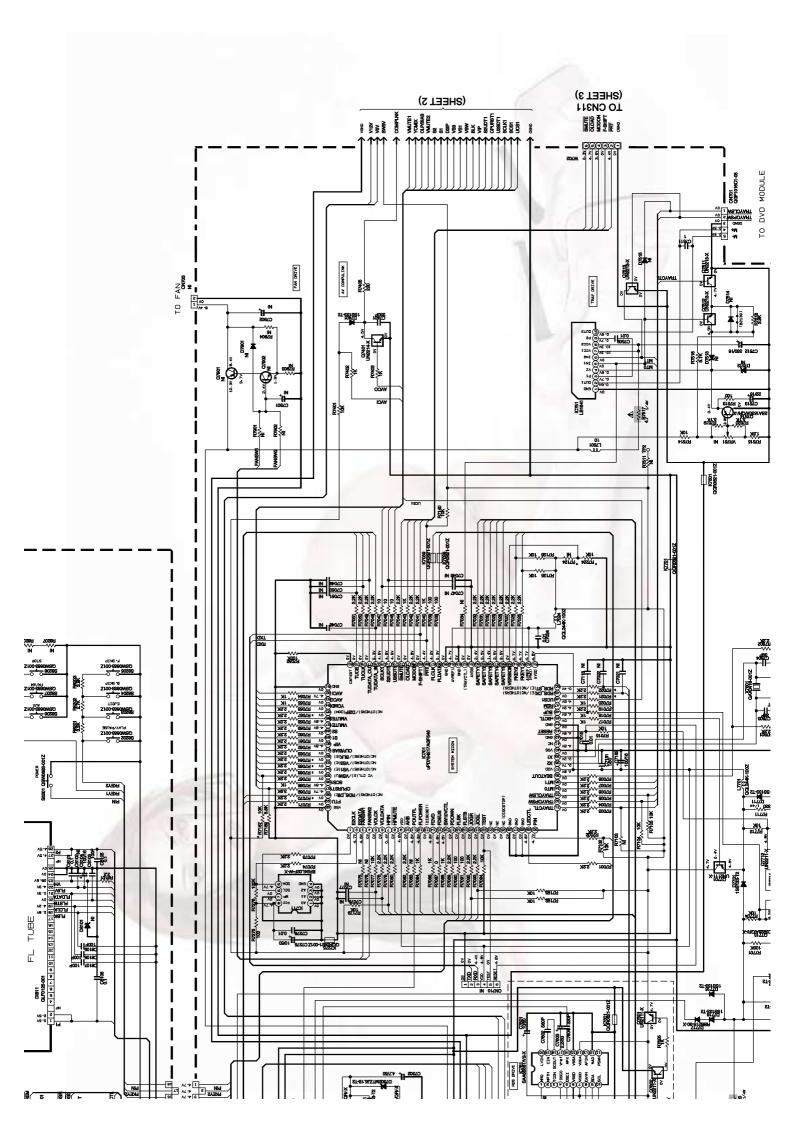
WOOD CONE R.D.S

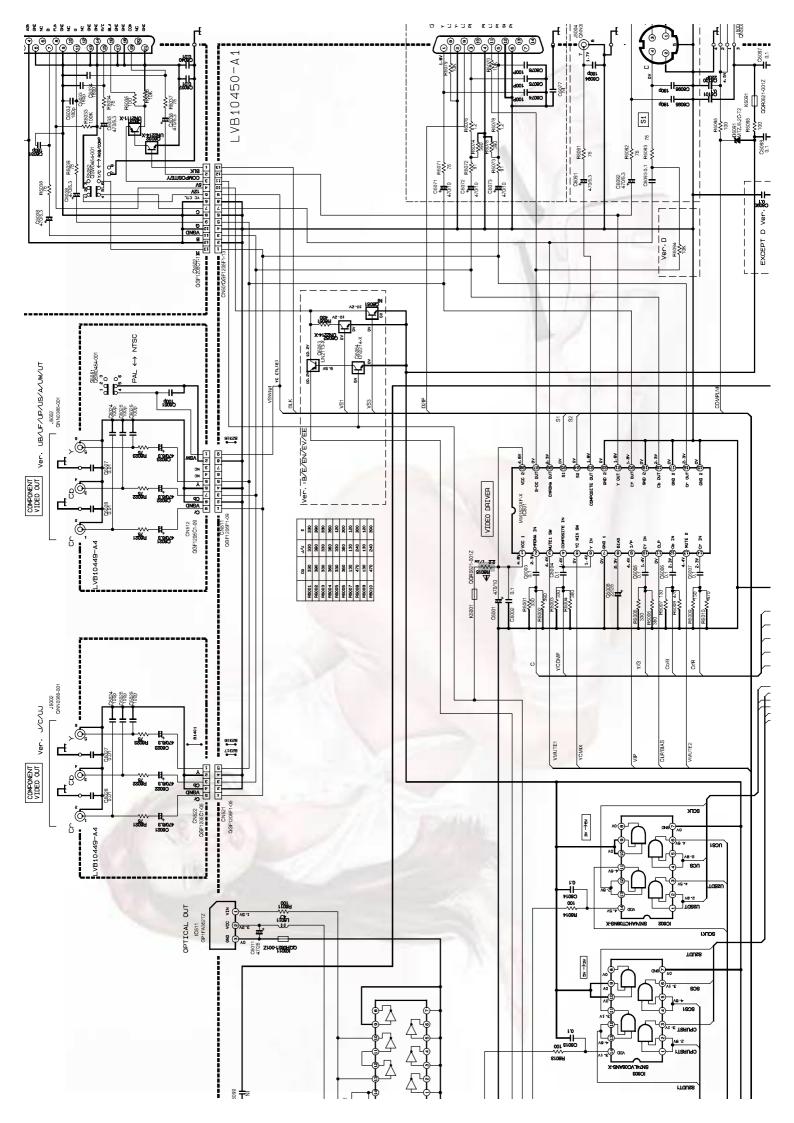
Area suffix

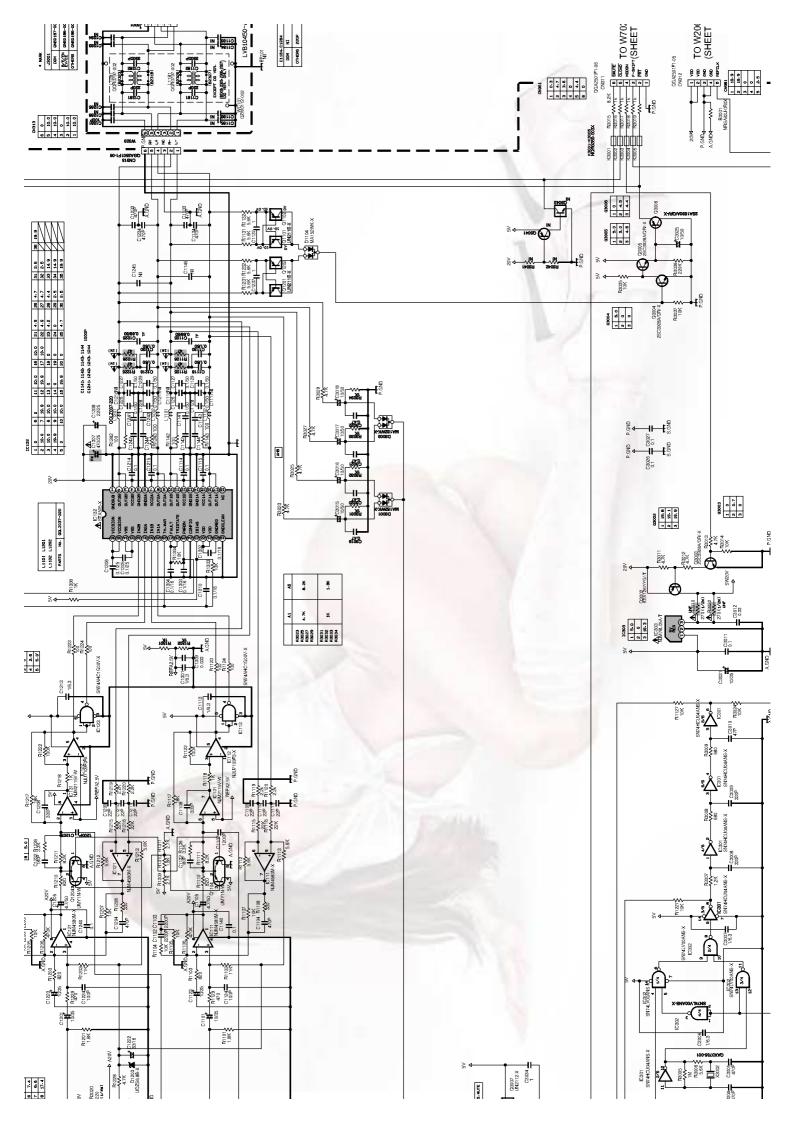
In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (—), diode (—) and ICP (—) or identified by the "\(\Lambda\)" mark nearby are critical for safety.

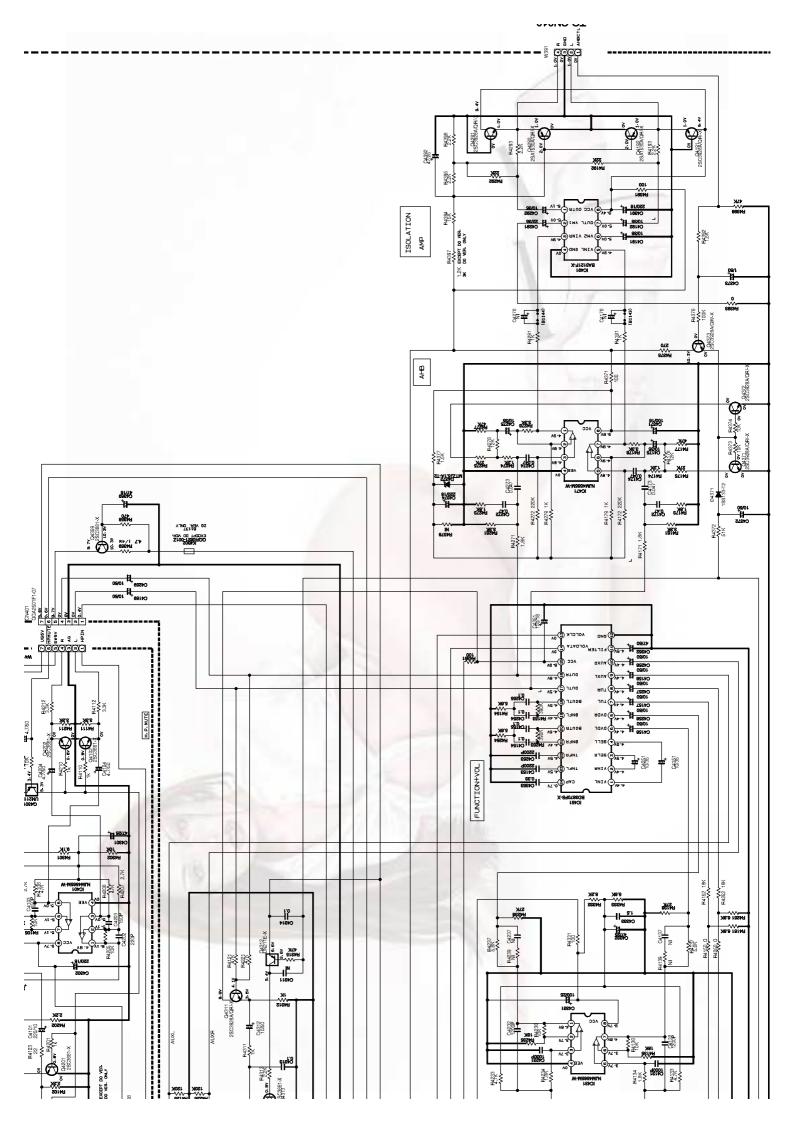


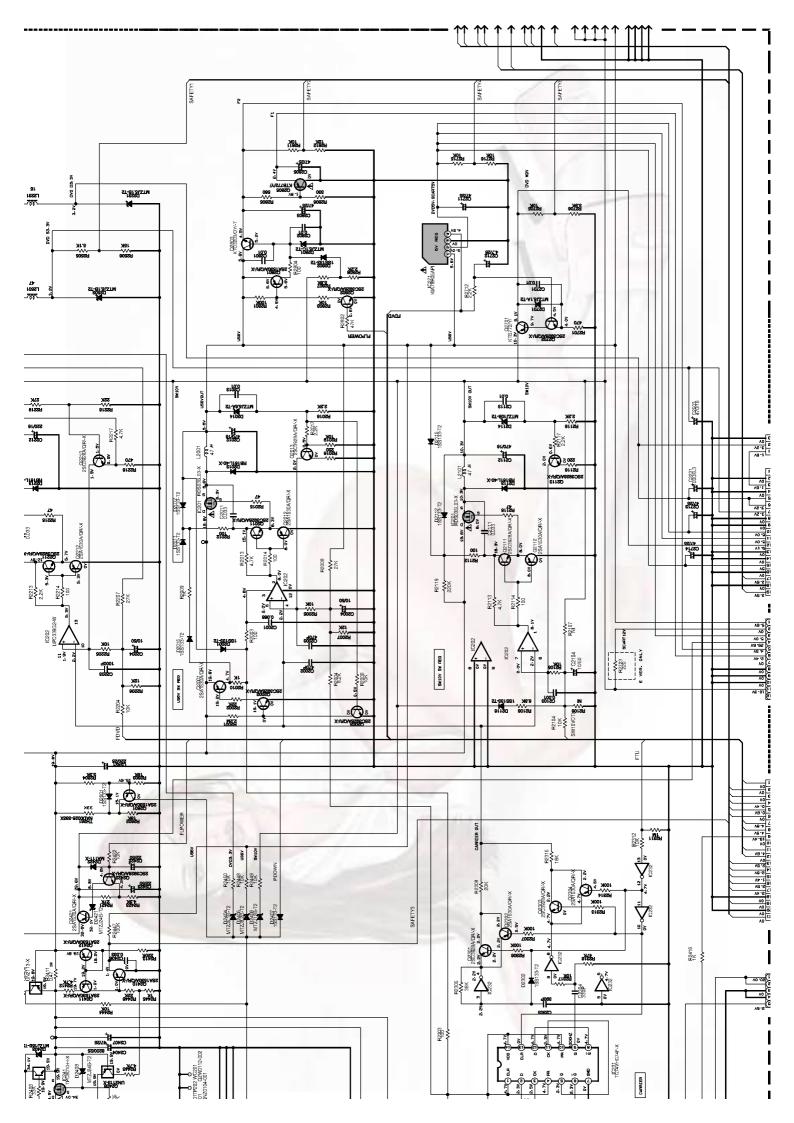


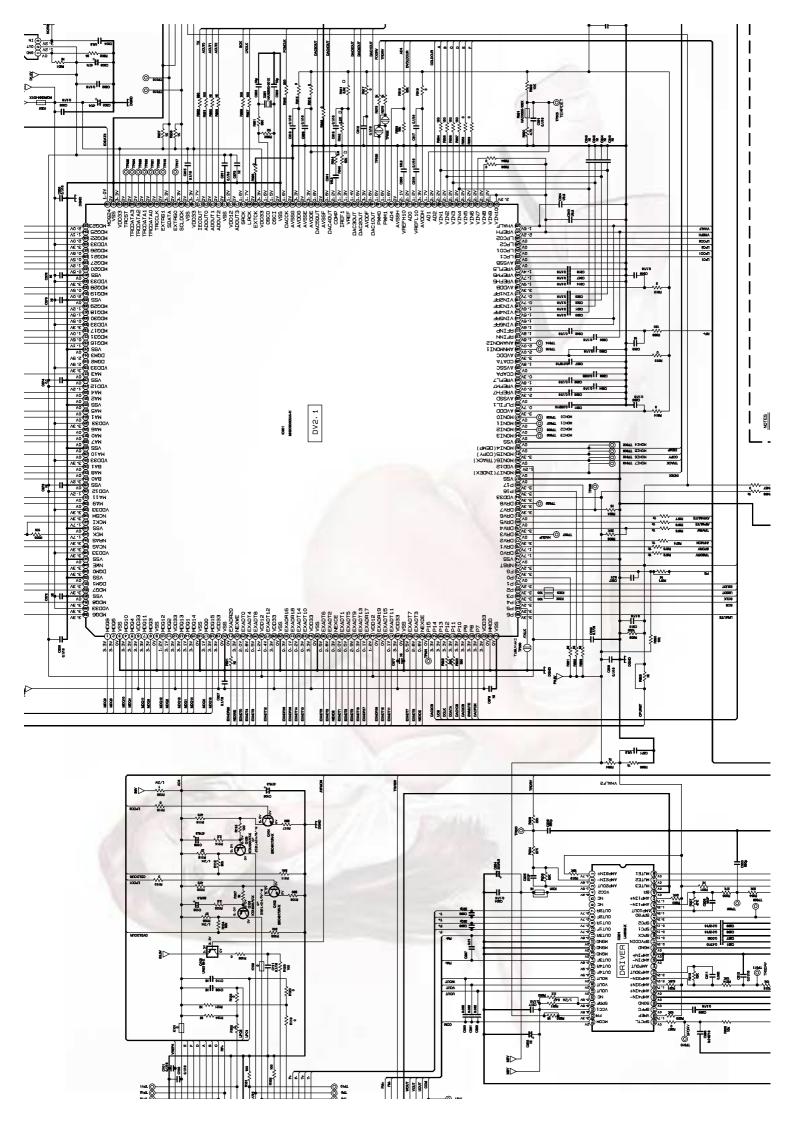


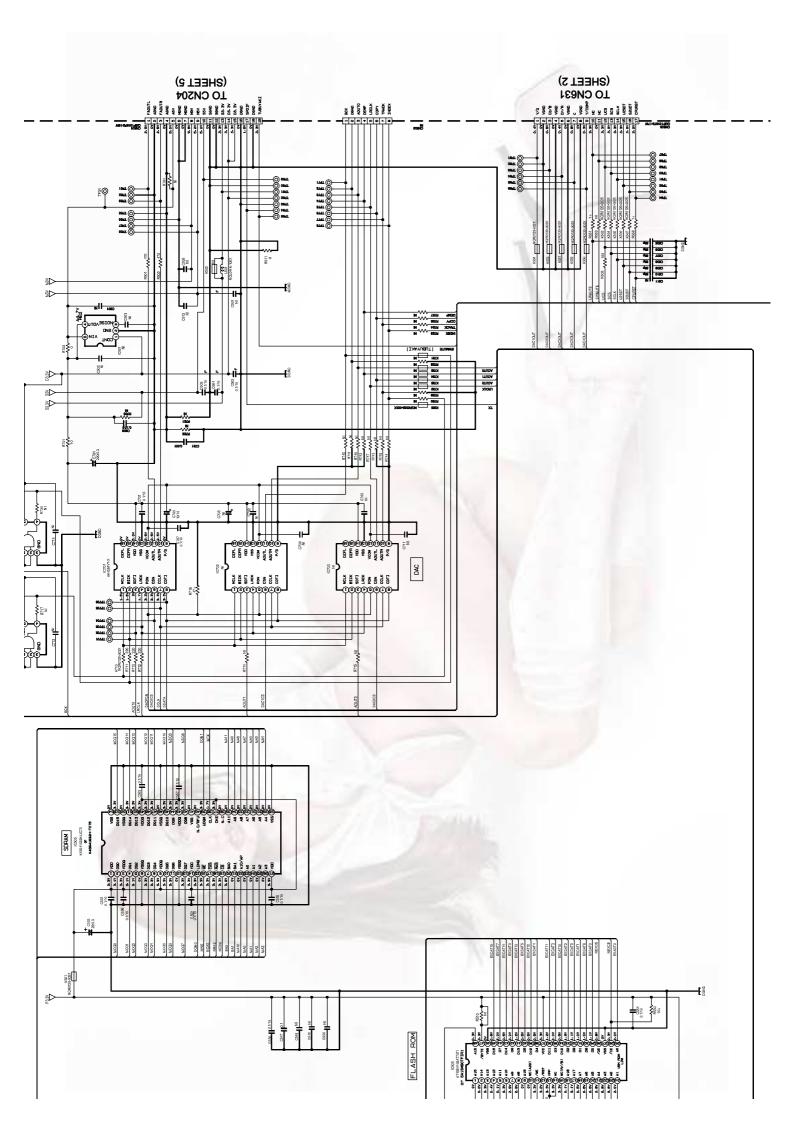


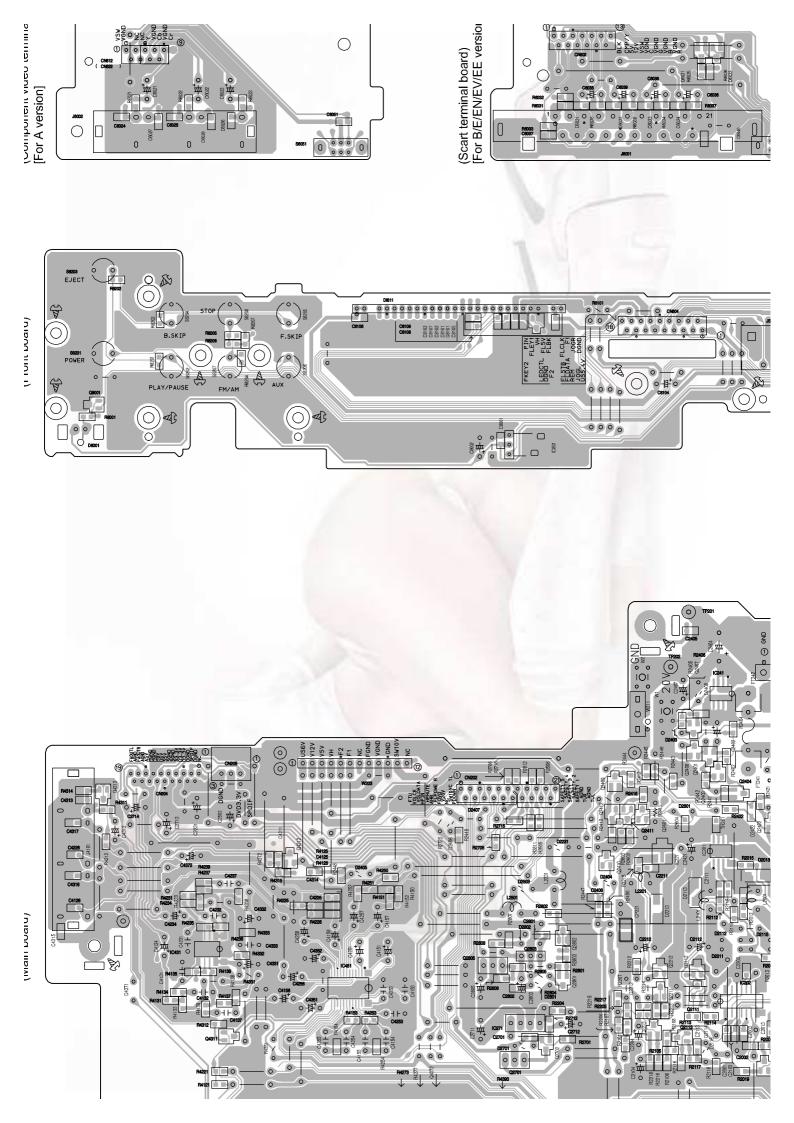


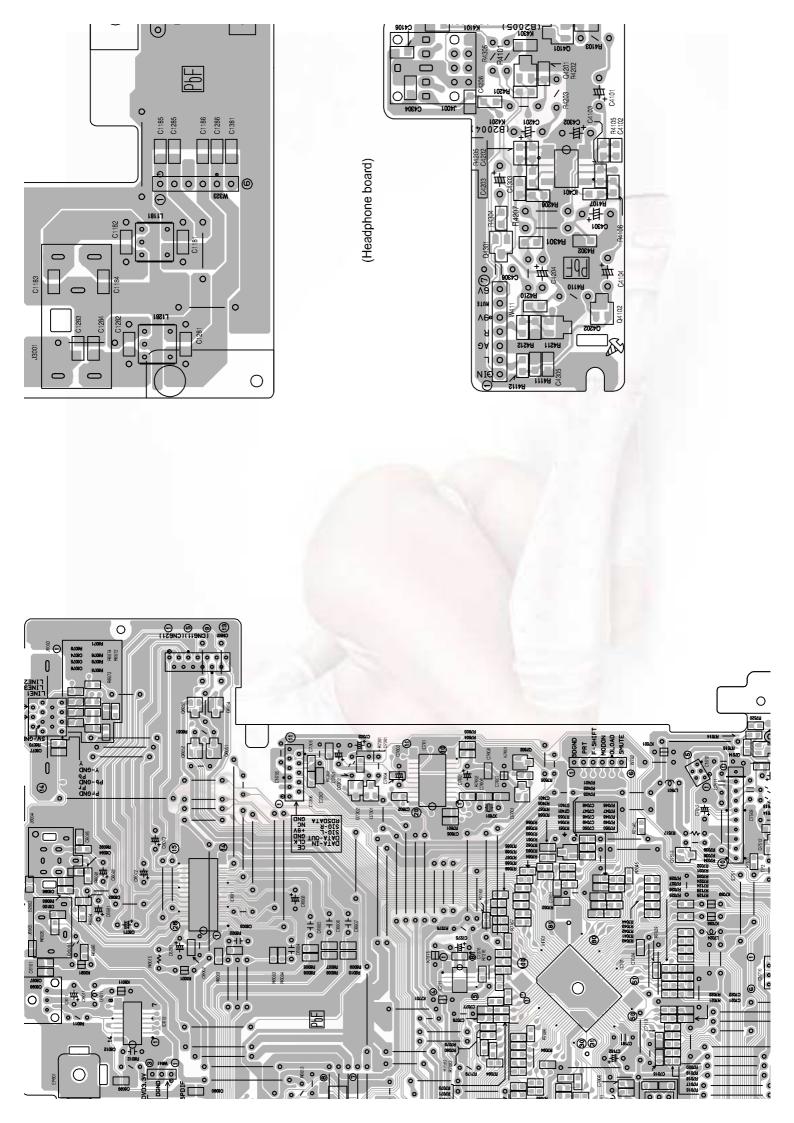


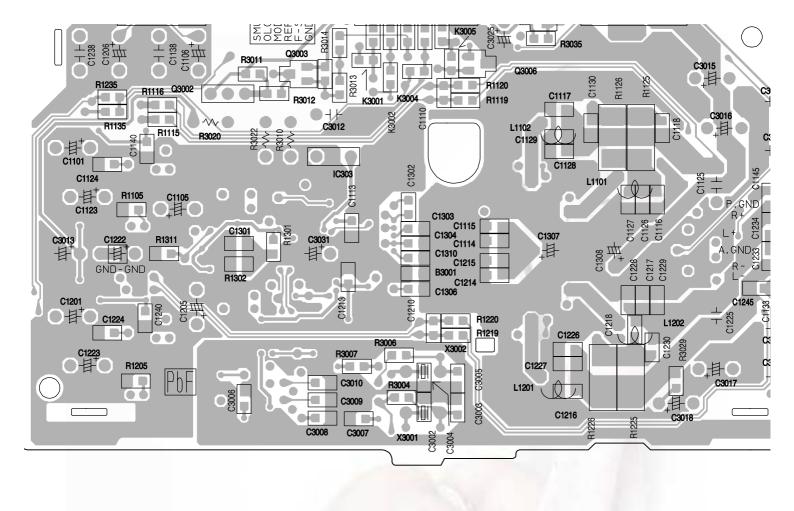


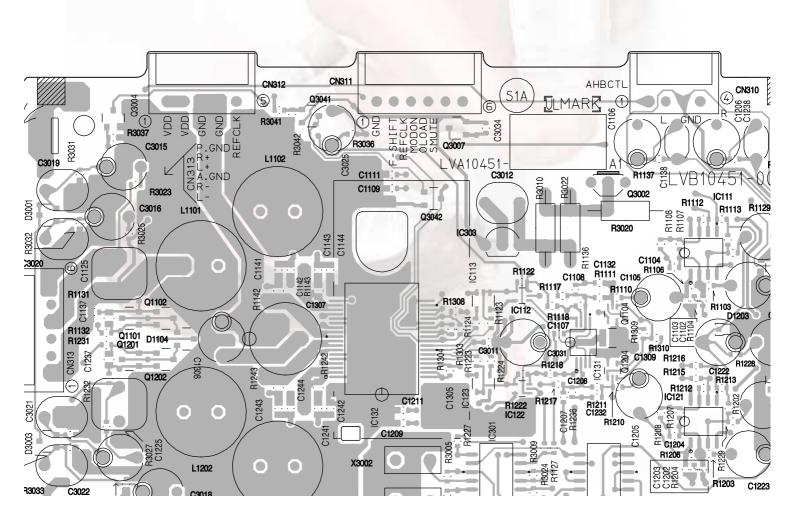


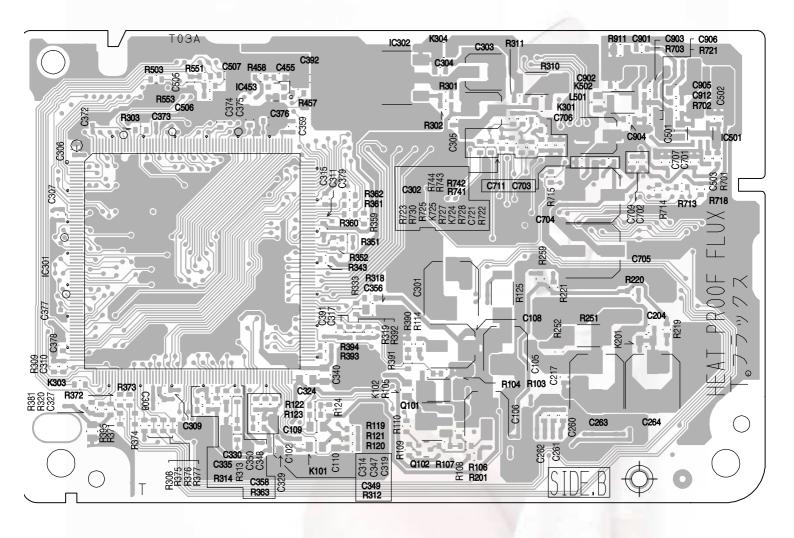


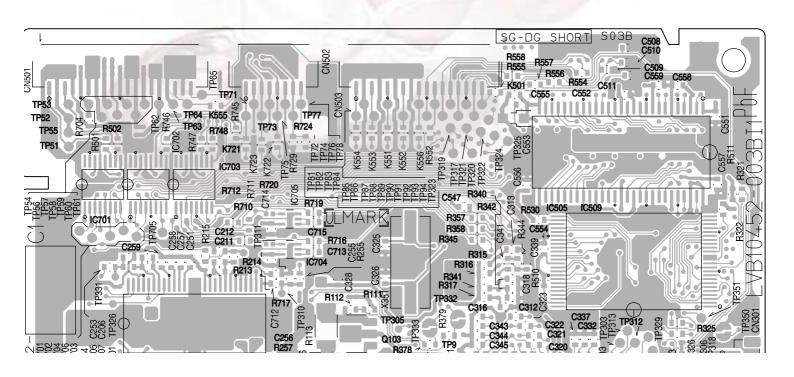












■ Switch board







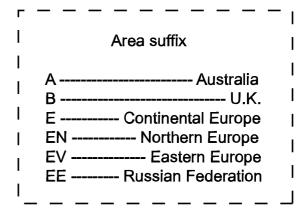
ictor Company of Japan, Limited

V & MULTIMEDIA COMPANY AUDIO/VIDEO SYSTEMS CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

PARTS LIST

[EX-A1]

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

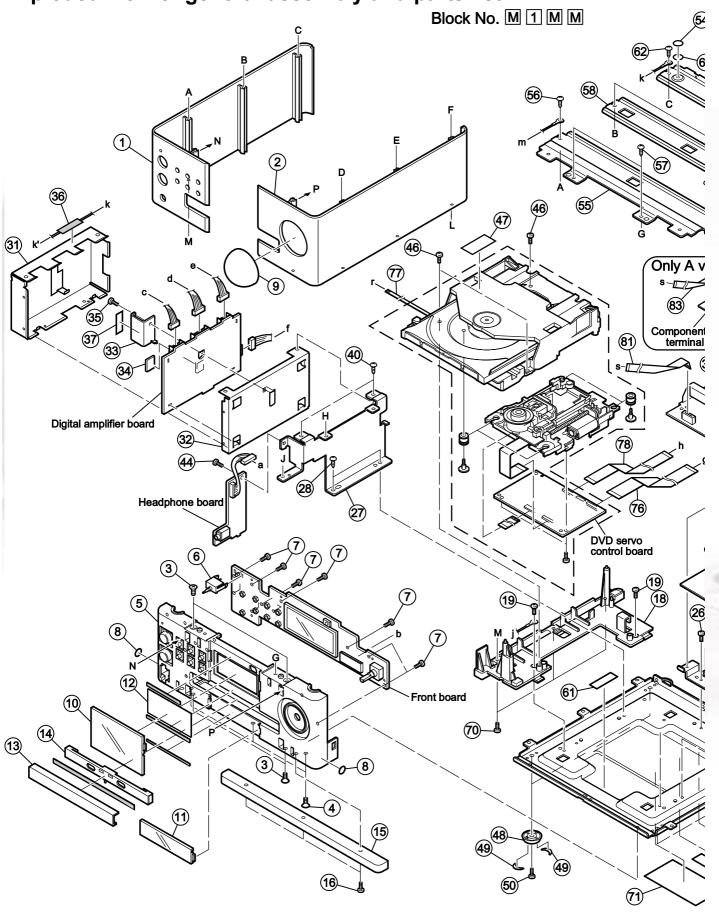


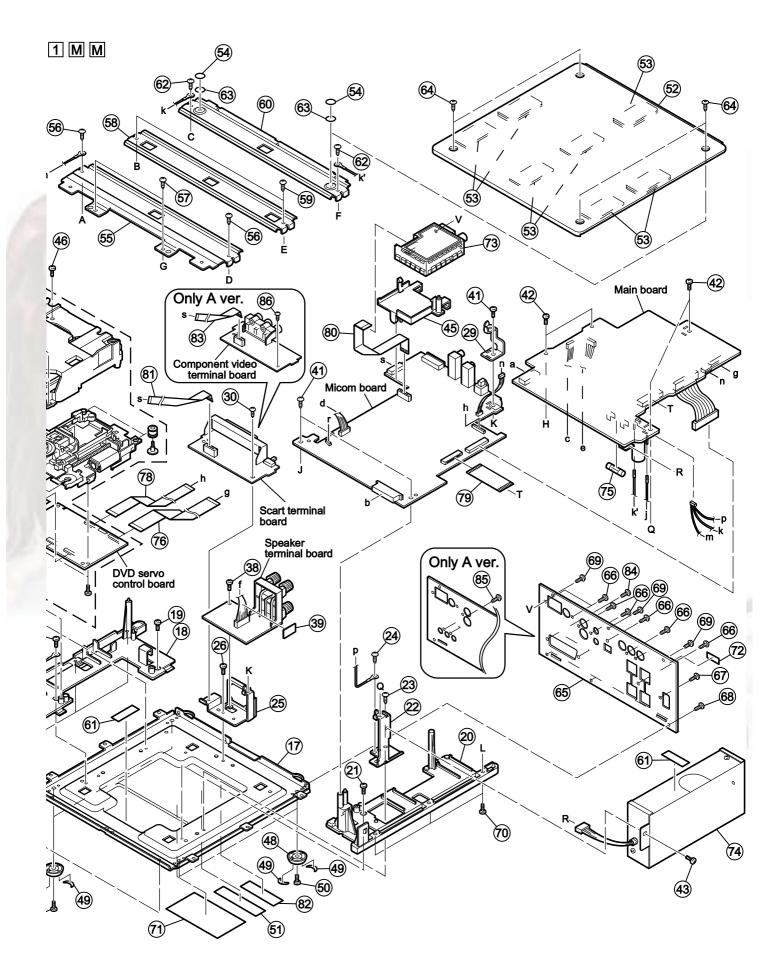
- Contents -

Exploded view of general assembly and parts list (Block No.M1) $ -$	3-2
Speaker assembly and parts list (Block No.M2) — — — — — — —	3-6
DVD mechanism assembly and parts list (Block No.MJ) $ -$	3-7
DVD loading base assembly and parts list (Block No.MN) $ -$	3-9
Electrical parts list (Block No.01~05) $ -$	3-11
Packing materials and accessories parts list (Block No.M3) $ -$	3-22

No.MB349 3-1

Exploded view of general assembly and parts list



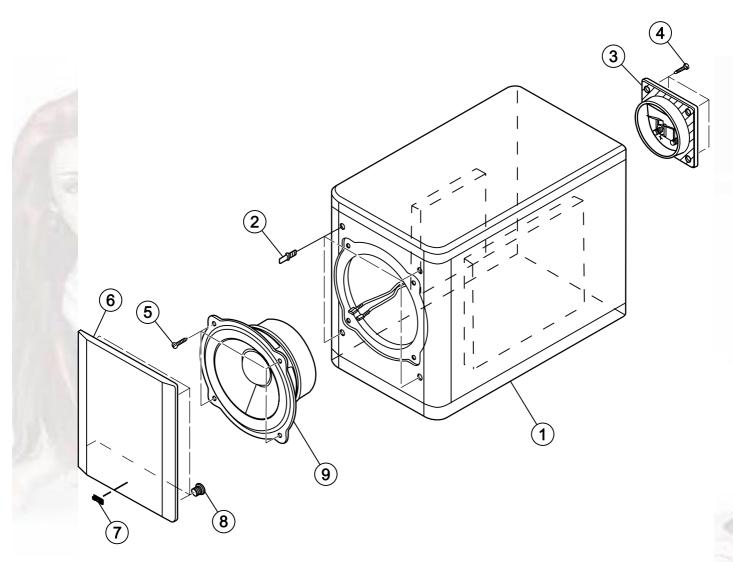


Λ	Symbol No.	Part No.	Part Name	Description	Local
	1	LV10841-201A	AL PANEL L		
	2	LV10842-201A	AL PANEL R		A
	2	LV10842-202A	AL PANEL R		B,E,EE,EN,EV
	3	QYSDSF3008Z	TAP SCREW	M3 x 8mm(x4)	
	4	QYSSST3006ZA	TAP SCREW	M3 x 6mm(x3)	
	5	LV10843-003A	FRONT PANEL		
	6	LV43596-001A	INDICATOR	140.0 0 (40)	
	7	QYSDSF2608Z	TAP SCREW	M2.6 x 8mm(x10)	
	8 9	GN30007-003A	SPACER	(x2)	
	10	LV34464-001A LV34428-002A	VOLUME ASSY FRONT LENS A		
	11	LV34429-001A	FRONT LENS B		
	12	LV42851-008A	SCREEN		
	13	LV34430-001A	FITTING COVER		
	14	LV21349-001A	TRAY FITTING(A)		
	15	LV34440-001A	WOOD BAR `´		
	16	QYSDSF3012M	TAP SCREW	M3 x 12mm(x3)	
	17	LV10844-001A	BOTTOM CHASSIS		
	18	LV21591-001A	SIDE COVER L		
	19	QYSBST3006E	TAP SCREW	M3 x 6mm(x2)	
	20	LV21592-001A	SIDE COVER R	MO 0	
	21	QYSBST3006E	TAP SCREW	M3 x 6mm	
	22 23	LV34431-001A QYSBST3006E	BRACKET A TAP SCREW	M3 x 6mm	
	24	QYSBST3006E	TAP SCREW	M3 x 6mm	
	25	LV34432-001A	BRACKET B	WIS X OTHER	
	26	QYSBST3006E	TAP SCREW	M3 x 6mm	
	27	LV34433-001A	BRACKET C		
	28	QYSBST3006E	TAP SCREW	M3 x 6mm(x2)	
	29	LV34465-001A	BRACKET D	` '	
	30	QYSBST3006E	TAP SCREW	M3 x 6mm	B,E,EE,EN,EV
	31	LV34434-001A	DEUS CASE A		
	32	LV34435-001A	DEUS CASE B		
	33	LV43595-001A	HEAT SINK		
	34 35	LV43407-005A	RUBBER SHEET	M2 6 v 6mm	
	36	QYSBST2606EA LV30225-011A	TAP SCREW SPACER	M2.6 x 6mm	
	37	LV43407-006A	RUBBER SHEET		
	38	QYSBST3006E	TAP SCREW	M3 x 6mm	
	39	LV30225-0R2A	SPACER	MO X OHIII	
	40	QYSBST2606EA	TAP SCREW	M2.6 x 6mm(x2)	
	41	QYSDSG3010N	TAP SCREW	M3 x 10mm(x3)	
	42	QYSDSG3010N	TAP SCREW	M3 x 10mm(x4)	
	43	QYSBSGY3008E	TAP SCREW	M3 x 8mm	
	44	QYSDSG3010N	TAP SCREW	M3 x 10mm	
	45	LV34439-001A	TUNER HOLDER	140 40(-0)	
	46	QYSDSF3010Z	TAP SCREW	M3 x 10mm(x3)	
	47 48	LV42035-002A LV43597-001A	LASER CAUTION FOOT	(x4)	
	49	LV43602-001A	FOOT FELT	(x8)	
	50	QYSDST3006MA	TAP SCREW	M3 x 6mm(x4)	
	51	LV41772-002A	CAUTION LABEL	,	
	52	LV10845-202A	TOP COVER		
	53	LV30225-0R2A	SPACER	(x10)	
	54	LV30226-043A	SPACER	(x2)	
	55	LV34436-001A	BRIDGE A		
	56	QYSSSG3008EA	TAP SCREW	M3 x 8mm(x2)	
	57	QYSDSF3010M	TAP SCREW	M3 x 10mm(x2)	
	58	LV34437-001A	BRIDGE B	M2 0(2)	
	59 60	QYSSSG3008EA LV34438-002A	TAP SCREW BRIDGE C	M3 x 8mm(x2)	
	61	LV30225-011A	SPACER	(x2)	
	62	QYSSSG3008EA	TAP SCREW	M3 x 8mm(x2)	
	63	GN30007-003A	SPACER	(x2)	
	64	LV43598-001A	SPECIAL SCREW	(x4)	
	65	LV21947-011A	REAR PANEL		A
	65	LV21947-016A	REAR PANEL		EE
	65	LV21947-003A	REAR PANEL		B,E,EN,EV
	66	QYSBSGY3008E	TAP SCREW	M3 x 8mm(x8)	
	67	QYSBSF3008MA	TAP SCREW	M3 x 8mm	
	68	QYSBSGY3008E	TAP SCREW	M3 x 8mm(x3)	
	69 70	QYSBSGY3008E QYSBSGY3008E	TAP SCREW TAP SCREW	M3 x 8mm(x3)	
	70 71	LV43614-001A	LABEL	M3 x 8mm(x6)	

Δ	Symbol No.	Part No.	Part Name	Description	Local
<u>^</u>	72 73 73 74 75 76 77	LV44233-001A QAU0346-001 QAU0347-001 QAL0511-008 QMF51W2-6R3-J8 QUQ110-1917AJ QUQ110-0510AJ QUQ110-1719AJ	LABEL TUNER TUNER SW POWER UNIT FUSE FFC WIRE FFC WIRE FFC WIRE	TU 1 F 2401 6.3A AC250V 19pin 17cm 5pin 10cm 17pin 19cm	A B,E,EE,EN,EV
	79 80 81 82 83 84 85 86	QUQ412-2110CJ QUQ412-1111CJ QUQ412-1310CJ LV41869-001A QUQ412-0910CJ QYSBSGY3008E QYSBSGY3008E QYSBSGY3008E QYSBST3006E	FFC WIRE FFC WIRE FFC WIRE APPROVAL LABEL FFC WIRE TAP SCREW TAP SCREW TAP SCREW	21pin 10cm 11pin 11cm 13pin 10cm 9pin 10cm (x2) (x2)	B,E,EE,EN,EV EV A B,E,EE,EN,EV A

Speaker assembly and parts list

Block No. M 2 M M



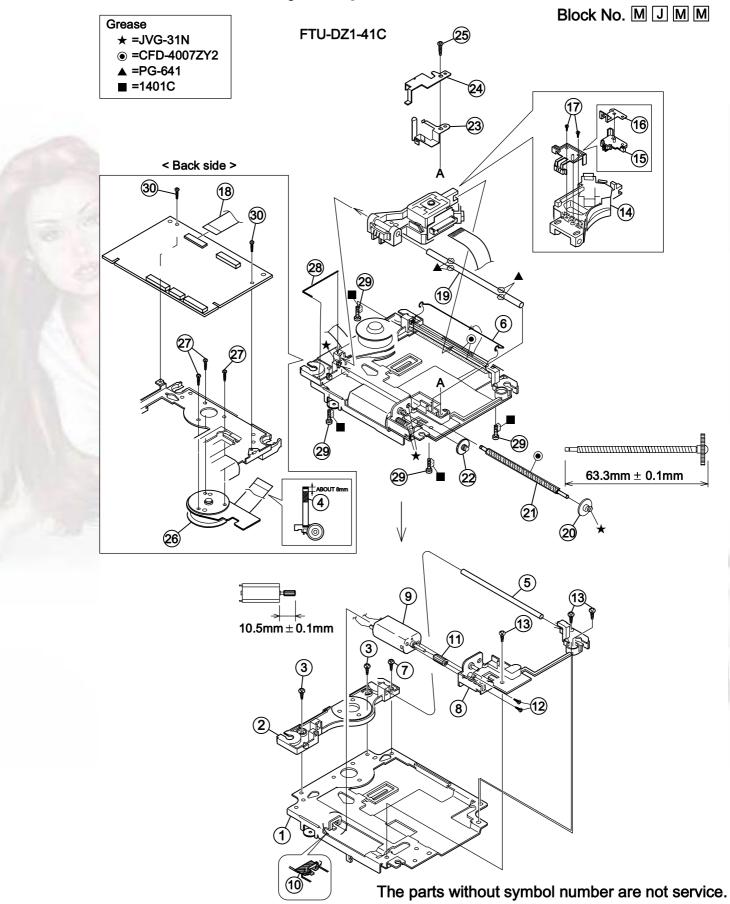
The parts without symbol number are not service.

Speaker

Block No. [M][2][M][M]

Δ	Symbol No.	Part No.	Part Name	Description	Local	
	1	5100017601	SPEAKER BOX	(x2)		
	2	5800023731	LATCH	(x8)		
	3	1030004601	SPEAKER TERMINAL	(x2)		
	4	7001841606	TAPPING SCREW	(x8)		
	5	7008142004	TAPPING SCREW	(x8)		
	6	9908001601	SPEAKER NET	(x2)		
	7	5900016501	JVC MARK	(x2)		
	8	5600008001	HOLDER	(x8)		
	9	KK080006-01	CONE SPEAKER	(x2)		

DVD mechanism assembly and parts list

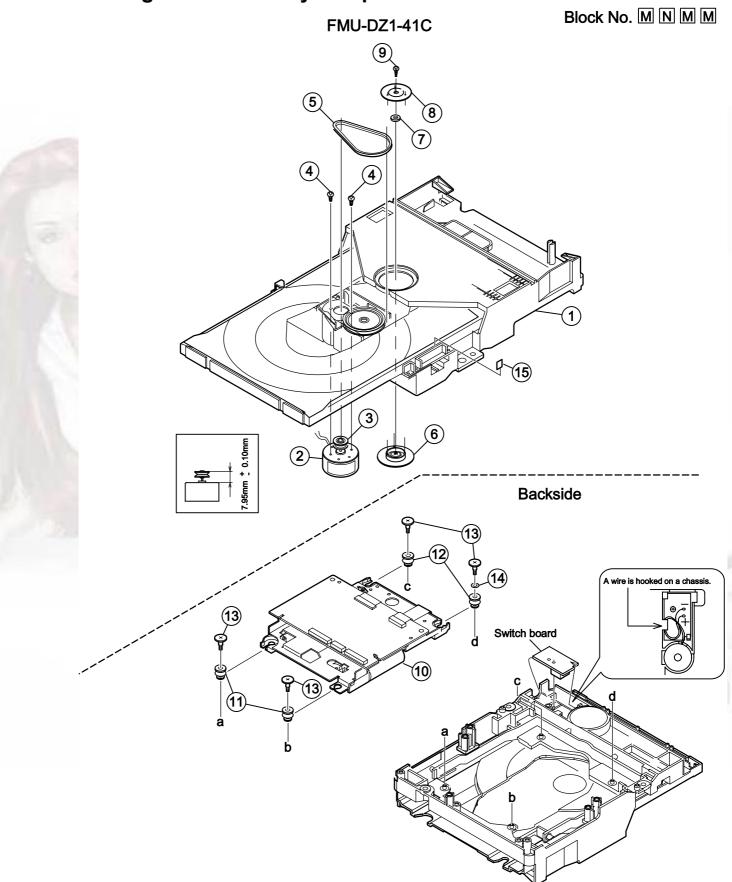


DVD mechanism

Block No. [M][J][M][M]

LV21814-001A MECHA BASE LE20731-002A SPINDLE BASE QYSDST2605MA TAP SCREW M2.6 x 5mm(x2) LV30225-0X6A SPACER LE40931-001A SHAFT LE40995-001A SHAFT LE40995-001A BAR SPRING QYSPSTU2080MA TAP SCREW M2 x 8mm LE20730-002A FEED HOLDER QAR0166-001 FEED MOTOR LV30225-0X5A SPACER LV41510-001A FEED GEAR T QYSPSPU2040MA SCREW M2 x 4mm(x2) QYSDST2605MA TAP SCREW M2.6 x 5mm(x3) QAL057-7-001 PUP LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QYSDST2605MA TAP SCREW M1.7 x 4mm(x2) QU105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40931-001A SCREW LE40930-001A FEED GEAR E LV41517-003A LEAD SCREW LE40938-001A FEED GEAR M LE40982-002A THURUST SPRING LE40982-002A THURUST SPRING LE40987-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 SMOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A SMOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	LV21814-001A MECHA BASE LE20731-002A SPINDLE BASE QYSDST2605MA TAP SCREW M2.6 x 5mm(x2) LV30225-0X6A SPACER LE40931-001A SHAFT LE40995-011A BAR SPRING QYSPSTU2080MA TAP SCREW M2 x 8mm LE20730-002A FEED MOTOR LV30225-0X5A SPACER LV41510-001A FEED MOTOR LV30225-0X5A SPACER LV41510-001A FEED GEAR T QYSPSPU2040MA SCREW M2 x 4mm(x2) QYSDST2605MA TAP SCREW M2.6 x 5mm(x3) QAU.6577-001 P.UP LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUSSST142AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40927-002A PLATE QYSDST2614ZA TAP SCREW LE40930-001A SCREW LE40930-001A SHAFT LE40855-002A FEED GEAR B LV41517-003A LEAD SCREW LE40937-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QXSPSF12614ZA TAP SCREW M2.6 x 14mm QXSPSF12614ZA TAP SCREW M2.6 x 14mm QXSPST2614ZA TAP SCREW M2.6 x 14mm QXSPSF12614ZA TAP SCREW M3.6 x 14mm QXSPSF12614ZA TAP SCREW M3.7 x 6mm(x3) LE40994-001A T.SPRING	Symbol N					
LE20731-002A SPINDLE BASE QYSDST2605MA TAP SCREW M2.6 x 5mm(x2) LV30225-0X6A SPACER LE40931-001A SHAFT LE40995-001A BAR SPRING QYSPSTU2080MA TAP SCREW M2 x 8mm LE20730-002A FEED HOLDER QAR0165-001 FEED MOTOR LV30225-0X5A SPACER LV41510-001A FEED GEAR T QYSPSPU2040MA SCREW M2 x 4mm(x2) QYSPSPU2040MA TAP SCREW M2.6 x 5mm(x3) QAL0577-001 P.UP LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU17402A TAP SCREW M1.7 x 4mm(x2) QUG105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40935-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40930-001A SMOTOR QYSPSFU1760ZA TAP SCREW M2.6 x 14mm QXSDST2614ZA TAP SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	LE20731-002A SPINDLE BASE QYSDST2605MA TAP SCREW M2.6 x 5mm(x2) LV30225-0X6A SPACER LE40931-001A SHAFT LE40995-001A BAR SPRING QYSPSTU2080MA TAP SCREW M2 x 8mm LE20730-002A FEED HOLDER QAR0165-001 FEED MOTOR LV30225-0X5A SPACER LV41510-001A FEED GEAR T QYSPSPU2040MA SCREW M2 x 4mm(x2) QYSDST2805MA TAP SCREW M2.6 x 5mm(x3) QAL0577-001 PUP LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QU105-2412AC FFC WIRE LE40931-001A SHAFT LE40931-001A SHAFT LE40930-001A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40930-001A SMOTOR QYSPSPU1760ZA SCREW M2.6 x 14mm QAR0334-001 S MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING		No. Part No.	Part Name	Description	Local	
LE20731-002A SPINDLE BASE QYSDST2605MA TAP SCREW M2.6 x 5mm(x2) LV30225-0X6A SPACER LE40931-001A SHAFT LE40995-001A BAR SPRING QYSPSTU2080MA TAP SCREW M2 x 8mm LE20730-002A FEED HOLDER QAR0165-001 FEED MOTOR LV30225-0X5A SPACER LV41510-001A FEED GEAR T QYSPSPU2040MA SCREW M2 x 4mm(x2) QYSPSPU2040MA TAP SCREW M2.6 x 5mm(x3) QAL0577-001 P.UP LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU17402A TAP SCREW M1.7 x 4mm(x2) QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40935-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40930-001A SMOTOR QYSPSPU1760ZA TAP SCREW M2.6 x 14mm QYSDST2614ZA TAP SCREW M2.6 x 14mm QYSDST2614ZA TAP SCREW M2.6 x 14mm QYSDST2614ZA TAP SCREW M2.6 x 14mm QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	LE20731-002A SPINDLE BASE QYSDST2605MA TAP SCREW M2.6 x 5mm(x2) LV30225-0X6A SPACER LE40931-001A SHAFT LE40995-001A BAR SPRING QYSPSTU2080MA TAP SCREW M2 x 8mm LE20730-002A FEED HOLDER QAR0165-001 FEED MOTOR LV30225-0X5A SPACER LV41510-001A FEED GEAR T QYSPSPU2040MA SCREW M2 x 4mm(x2) QYSDST2805MA TAP SCREW M2.6 x 5mm(x3) QAL0577-001 PUP LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QU105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40931-001A SHAFT LE40930-001A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40930-001A FEED GEAR	1	LV21814-001A	MECHA BASE			
LV30225-0X6A SPACER LE40931-001A SHAFT LE40995-001A BAR SPRING QYSPSTU2080MA TAP SCREW M2 x 8mm LE20730-002A FEED HOLDER QAR0165-001 FEED MOTOR LV30225-0X5A SPACER LV41510-001A FEED GEAR T QYSPSPU2040MA SCREW M2 x 4mm(x2) QYSDST2605MA TAP SCREW M2.6 x 5mm(x3) QAL0577-001 P.UP LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING QYSPST01740ZA PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QYSDST2614ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	LV30225-0x66A SPACER LE40931-001A SHAFT LE40995-001A BAR SPRING QYSPSTU2080MA TAP SCREW M2 x 8mm LE20730-002A FEED HOLDER QAR0165-001 FEED MOTOR LV30225-0x5A SPACER LV41510-001A FEED GEAR T QYSPSPU2040MA SCREW M2 x 4mm(x2) QYSDST2605MA TAP SCREW M2.6 x 5mm(x3) QAL0577-001 P.UP LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUSD165-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40985-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR B LE40928-002A THURUST SPRING LE40928-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm LE40928-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm A2.6 x 14mm QYSPSPU1760ZA SCREW M2.6 x 14mm M3.7 x 6mm(x3) M1.7 x 6mm(x3) LE40994-001A T.SPRING QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	2	LE20731-002A	SPINDLE BASE			
LE40931-001A SHAFT LE40995-001A BAR SPRING OYSPSTU2080MA TAP SCREW M2 x 8mm LE20730-002A FEED HOLDER QAR0165-001 FEED MOTOR LV30225-0X5A SPACER LV41510-001A FEED GEAR T OYSPSPU2040MA SCREW M2 x 4mm(x2) OYSDST2605MA TAP SCREW M2.6 x 5mm(x3) OAL0577-001 PUP LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING OYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) OUG105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40931-001A SHAFT LE40930-001A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR B LE40930-001A FEED GEAR B LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40930-001A FEED GEAR M LE40928-002A PLATE OYSPSTU1760ZA SCREW M1.7 x 6mm(x3) LE40934-0011 S.MOTOR OYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING LE40994-001A T.SPRING	LE40931-001A BAR SPRING	3			M2.6 x 5mm(x2)		
LE40995-001A BAR SPRING QYSPSTU2080MA TAP SCREW M2 x 8mm LE20730-002A FEED MOTOR QAR0165-001 FEED MOTOR LV30225-0X5A SPACER LV41510-001A FEED GEAR T QYSPSPU2040MA SCREW M2 x 4mm(x2) QYSDST2605MA TAP SCREW M2.6 x 5mm(x3) QAL0577-001 P.UP LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40931-001A SHAFT LE40935-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40928-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	LE40995-001A BAR SPRING QYSPSTU2080MA TAP SCREW M2 x 8mm LE20730-002A FEED HOLDER QAR0165-001 FEED MOTOR LV30225-0X5A SPACER LV41510-001A FEED GEAR T QYSPSPU2040MA SCREW M2 x 4mm(x2) QYSDST2805MA TAP SCREW M2.6 x 5mm(x3) QAL0577-001 P.UP LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40935-002A FEED GEAR E LV41517-003A LEAD SCREW LE40932-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QXSDST2614ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	4 5					
QYSPSTU2080MA TAP SCREW M2 x 8mm LE20730-002A FEED HOLDER QAR0165-001 FEED MOTOR LV30225-0X5A SPACER LV41510-001A FEED GEAR T QYSPSPU2040MA SCREW M2 x 4mm(x2) QYSDST2605MA TAP SCREW M2.6 x 5mm(x3) QAL0577-001 P.UP LE20732-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40930-001A FEED GEAR M LE40930-001A FEED GEAR M LE40928-002A THURST SPRING QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 SMOTOR LE40994-001A T.SPRING LE40994-001A T.SPRING	A	6					
QAR0165-001 FEED MOTOR LV30225-0X5A SPACER LV41510-001A FEED GEAR T QYSPSPUZ040MA SCREW M2 x 4mm(x2) QYSDST2605MA TAP SCREW M2.6 x 5mm(x3) QAL0577-001 P.UP LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40931-001A SHAFT LE40935-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40928-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QXSDST2614ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	QAR0165-001 FEED MOTOR LV30225-0X5A SPACER LV41510-001A FEED GEAR T QYSPSPLU2040MA SCREW M2 x 4mm(x2) QYSDST2605MA TAP SCREW M2.6 x 5mm(x3) QAL0577-001 P.UP LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QU0105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40931-001A SHAFT LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40928-002A THURUST SPRING LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QXSDST2614ZA TAP SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	7			M2 x 8mm		
LV30225-0X5A	LV30225-0X5A	8	LE20730-002A				
LV41510-001A FEED GEAR T QYSPSPU2040MA SCREW M2 x 4mm(x2) QYSDS72605MA TAP SCREW M2.6 x 5mm(x3) QAL0577-001 P.UP LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDS72614ZA TAP SCREW M2.6 x 14mm QYSDS72614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	LV41510-001A FEED GEAR T QYSPSPU2040MA SCREW M2 x 4mm(x2) QYSDST2605MA TAP SCREW M2.6 x 5mm(x3) QAL0577-001 P.UP LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	9		FEED MOTOR			
QYSPSPU2040MA SCREW M2 x 4mm(x2) QYSDST2605MA TAP SCREW M2.6 x 5mm(x3) QAL0577-001 P.UP LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	QYSPSPU2040MA SCREW M2 x 4mm(x2) QYSDST2605MA TAP SCREW M2.6 x 5mm(x3) QAL0577-001 P.UP PLP LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40985-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING M1.7 x 6mm(x3) M1.7 x 6mm(x3)	10 11					
QYSDST2605MA TAP SCREW M2.6 x 5mm(x3) QAL0577-001 P.UP LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	QYSDST2605MA TAP SCREW M2.6 x 5mm(x3) QAL0577-001 P.UP M2.6 x 5mm(x3) LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT SHAFT LE40855-002A FEED GEAR E EED GEAR M LE40930-001A FEED GEAR M FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A LE40927-002A PLATE M2.6 x 14mm QYSDSDT2614ZA TAP SCREW M2.6 x 14mm QYSPSPU1760ZA S.MOTOR M1.7 x 6mm(x3) LE40994-001A T.SPRING	12			M2 x 4mm(x2)		
LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	LE20732-001A SW ACTUATOR LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QXSPSPU1760ZA SCREW QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	13	QYSDST2605MA	TAP SCREW			
LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	LE31093-001A LEAD SPRING QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	14					
QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	QYSPSFU1740ZA TAP SCREW M1.7 x 4mm(x2) QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QXSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	15 16		I FAD SPRING			
QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	QUQ105-2412AC FFC WIRE 24pin 12cm LE40931-001A SHAFT LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	17			M1.7 x 4mm(x2)		
LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	LE40855-002A FEED GEAR E LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	18	QUQ105-2412AC	FFC WIRE	24pin 12cm		
LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	LV41517-003A LEAD SCREW LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	19					
LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	LE40930-001A FEED GEAR M LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	20 21					
LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	LE40928-002A THURUST SPRING LE40927-002A PLATE QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	22					
QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	QYSDST2614ZA TAP SCREW M2.6 x 14mm QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	23					
QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	QAR0334-001 S.MOTOR QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	24					
QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	QYSPSPU1760ZA SCREW M1.7 x 6mm(x3) LE40994-001A T.SPRING	25 26		TAP SCREW	M2.6 x 14mm		
LE40994-001A T.SPRING	LE40994-001A T.SPRING	26 27			M1 7 x 6mm(x3)		
LE40858-002A SPECIAL SCREW (x4) OVSDST20047A TAB SCREW M2 v 4mm(v2)	LE40858-002A SPECIAL SCREW (x4) QYSDST2004ZA TAP SCREW M2 x 4mm(x2)	28		T.SPRING			
OVSDST20047A TAD $SCDEW$ M2 v $Amm(v2)$	QYSDST2004ZA TAP SCREW M2 x 4mm(x2)	29	LE40858-002A		(x4)		
Q13D3120042A IAI SCINEW IVEX 4HIIII(AZ)		30	QYSDST2004ZA	TAP SCREW	M2 x 4mm(x2)		
Q13D3120042A IAI SONEW IVIZ X 411111(X2)		28 29 30	LE40994-001A LE40858-002A	T.SPRING SPECIAL SCREW			

DVD loading base assembly and parts list



The parts without symbol number are not service.

DVD loading base

Block No. [M][N][M][M]

1 LE10283-014A LOADER SUB ASSY 2 QAR0197-001 MOTOR PULLEY 4 OYSPSPU1730ZA SCREW M1.7 x 3mm(x2) BELT 1 LE40897-001A BELT 1 LY4283-003A P.C.LMMPER 1 LE40899-01A YOKE 9 LE40909-02A PSPCJAL SCREW DVD TRAMECHA LN LE40890-010A NSULATOR (x2) 11 LE40900-003A NSULATOR (x2) 12 LE40900-005A NSULATOR (x2) 13 LE40901-005A NSULATOR (x2) 13 LE40901-005A NSULATOR (x2) 14 QYMFNH19025 WASHER 9mm/4.1mm x 0.25mm SPACER SPACER SPACER SPACER	Symbol No.	Part No.	Part Name	Description	Local
	2 3 4 5 6 7 8 9 10 11 12 13	QAR0197-001 LV42087-002A QYSPSPU1730ZA LE40897-001A LE31046-003A LV42930-003A LE40899-001A LE40906-002A 	MOTOR MOTOR PULLEY SCREW BELT CLAMPER P.C. MAGNET YOKE SPECIAL SCREW DVD TRAMECHA UN INSULATOR INSULATOR SPECIAL SCREW WASHER	(x2) (x2) (x4)	
	12 13	LE40900-005A LE40901-002A QYWFM419025	INSULATOR SPECIAL SCREW WASHER	(x4)	

Electrical parts list

Main b	oard				⚠ Symbol No.	Part No.	Part Name	Description	Local
			Block No	. [0][1]	 D2114	MTZJ10B-T2	Z DIODE		
⚠ Symbol No.	Part No.	Part Name	Description	Local	D2115	1SS133-T2	SI DIODE		
					D2116	1SS133-T2	SI DIODE		
 ∆ IC201	DDC03EL03 V	MOS FET			D2212 D2213	1SS133-T2	SI DIODE SB DIODE		
IC201	RDS035L03-X UPC339G2-W	IC			D2213 D2231	RB161L-40-X MTZJ5.1B-T2	Z DIODE		
△ IC221	RHP030N03-W	IC			D2301	MTZJ5.1B-T2	Z DIODE		
IC231	TC74VHC74F-X	IC			D2302	1SS133-T2	SI DIODE		
IC232	TC74VHC14F-X	IC			D2403	MTZJ15B-T2	Z DIODE		
⚠ IC241 ⚠ IC271	TPC8010-H-X	POWER MOS FET			D2404 D2405	MTZJ5.1B-T2	Z DIODE		
IC431	KIA78R05API NJM4565M-W	IC IC			D2405 D2406	MTZJ8.2B-T2 MTZJ12B-T2	Z DIODE Z DIODE		
IC451	BD3870FS-X	iC			D2407	1SS133-T2	SI DIODE		
IC471	NJM4565M-W	IC			D2408	MTZJ24B-T2	Z DIODE		
IC491	BA3121F-X	IC			D2421	MTZJ24B-T2	Z DIODE		
IC801	GP1UM261XKVF	IR DETECT UNIT			D2422 D2503	MA111-X MTZJ5.1B-T2	SI DIODE Z DIODE		
Q2001	2SA1530A/QR/-X	TRANSISTOR			D2503 D2601	1SS133-T2	SI DIODE		
Q2002	2SC3928A/QR/-X	TRANSISTOR			D2701	MTZJ5.1A-T2	Z DIODE		
Q2003	2SC3928A/QR/-X	TRANSISTOR			D2801	MTZJ5.1C-T2	Z DIODE		
Q2011	2SC3928A/QR/-X	TRANSISTOR			D2802	1SS133-T2	SI DIODE		
Q2012	2SA1530A/QR/-X	TRANSISTOR			D4371	1SS133-T2	SI DIODE		
Q2013 Q2111	2SC3928A/QR/-X 2SC3928A/QR/-X	TRANSISTOR TRANSISTOR			D4372 D8001	MTZJ5.1A-T2 SLR-343VC/NPQ-T	Z DIODE LED		
Q2112	2SA1530A/QR/-X	TRANSISTOR			D0001	OLIV-040VO/IVI Q-1	LLD		
Q2113	2SC3928A/QR/-X	TRANSISTOR			C1281	NCS31HJ-221X	C CAPACITOR	220pF 50V J	В
Q2211	2SC3928A/QR/-X	TRANSISTOR			C1282	NCB31EK-332X	C CAPACITOR	3300pF 25V K	В
Q2212	2SA1530A/QR/-X	TRANSISTOR			C2001	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
Q2213 Q2301	2SC3928A/QR/-X 2SC3928A/QR/-X	TRANSISTOR TRANSISTOR			C2002 C2003	NCS31HJ-471X NCB31HK-471X	C CAPACITOR C CAPACITOR	470pF 50V J 470pF 50V K	
Q2301	2SA1530A/QR/-X	TRANSISTOR			C2003	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
Q2303	2SC3928A/QR/-X	TRANSISTOR			C2011	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
Q2304	2SA1530A/QR/-X	TRANSISTOR			C2012	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
Q2401	UN2113-X	DIGI TRANSISTOR			C2013	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
Q2403 Q2404	UN221E-X 2SC3928A/QR/-X	TRANSTSTOR TRANSISTOR			C2103 C2104	NCB31HK-102X QETN1HM-106Z	C CAPACITOR	1000pF 50V K	
Q2404 Q2407	UN2211-X	TRANSISTOR			C2104 C2111	NCB31CK-333X	E CAPACITOR C CAPACITOR	10uF 50V M 0.033uF 16V K	
Q2408	UN2113-X	DIGI TRANSISTOR			C2112	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
Q2409	UN2113-X	DIGI TRANSISTOR			C2113	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
Q2410	2SA1530A/QR/-X	TRANSISTOR			C2203	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
Q2411	2SA1530A/QR/-X	TRANSISTOR			C2204	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
Q2412 Q2421	2SA1530A/QR/-X 2SA1530A/QR/-X	TRANSISTOR TRANSISTOR			C2211 C2212	NCB31CK-333X QETN1CM-227Z	C CAPACITOR E CAPACITOR	0.033uF 16V K 220uF 16V M	
Q2422	2SC3928A/QR/-X	TRANSISTOR			C2231	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	
Q2601	2SA1530A/QR/-X	TRANSISTOR			C2301	NCS31HJ-102X	C CAPACITOR	1000pF 50V J	
Q2701	KTB772/Y/	TRANSISTOR			C2302	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
Q2702	2SC3928A/QR/-X	TRANSISTOR			C2303	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
Q2801 Q2802	2SA1530A/QR/-X 2SC3928A/QR/-X	TRANSISTOR TRANSISTOR			C2303 C2304	NDC31HJ-391X NCB31HK-331X	C CAPACITOR C CAPACITOR	390pF 50V J 330pF 50V K	
Q2803	KTC3203/OY/-T	TRANSISTOR			C2402	QER61EM-476Z	E CAPACITOR	47uF 25V M	
△ Q2805	KTB772/Y/	TRANSISTOR			C2404	QEZ0536-828	E CAPACITOR	8200uF	
Q4191	2SC3928A/QR/-X	TRANSISTOR			C2406	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	- 1
Q4192	2SA1530A/QR/-X	TRANSISTOR			C2407	QTE1E06-476Z	E CAPACITOR	47uF 25V	
Q4291 Q4292	2SC3928A/QR/-X 2SA1530A/QR/-X	TRANSISTOR TRANSISTOR			C2408 C2409	QFG32AJ-473 QTE1E06-476Z	PP CAPACITOR E CAPACITOR	0.047uF 100V J 47uF 25V	
Q4311	2SC3928A/QR/-X	TRANSISTOR			C2421	QETN1EM-227Z	E CAPACITOR	220uF 25V M	
Q4312	UN211E-X	DIGI TRANSISTOR			C2422	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
Q4313	2SC3661-X	TRANSISTOR			C2423	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
Q4359	2SC3661-X	TRANSISTOR			C2503	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
Q4371 Q4372	2SC3928A/QR/-X 2SC3928A/QR/-X	TRANSISTOR TRANSISTOR			C2701 C2711	NCB31HK-103X QTE1E06-476Z	C CAPACITOR E CAPACITOR	0.01uF 50V K 47uF 25V	
Q4372 Q4373	2SC3928A/QR/-X	TRANSISTOR			C2711	QETN1EM-475Z	E CAPACITOR	4.7uF 25V M	
		TRANSISTOR		B,E,EE,	C2713	QTE1E06-476Z	E CAPACITOR	47uF 25V	
Q6031	UN2111-X	TRANSISTOR		EN,EV	C2714	QTE1E06-476Z	E CAPACITOR	47uF 25V	
Q6032	UN2214-X	TRANSISTOR		B,E,EE, EN,EV	C2801	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q8001	UN2111-X	TRANSISTOR		LIN,⊏V	C2802 C2803	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q0001		110010101			C2803 C2805	QETN1EM-476Z QETN1EM-476Z	E CAPACITOR E CAPACITOR	47uF 25V M 47uF 25V M	
D2001	1SS133-T2	SI DIODE			C2005 C4125	NCS31HJ-221X	C CAPACITOR	220pF 50V J	
D2011	1SS133-T2	SI DIODE			C4126	NCS31HJ-221X	C CAPACITOR	220pF 50V J	
D2012	1SS133-T2	SI DIODE			C4131	QFG32AJ-102Z	PP CAPACITOR	1000pF 100V J	
D2013 D2014	RB161L-40-X MTZJ5.6A-T2	SB DIODE Z DIODE			C4132	QFG32AJ-122Z	PP CAPACITOR	1200pF 100V J	
D2014 D2015	1SS133-T2	SI DIODE			C4134 C4151	QTE1E06-226Z QTE1V06-106Z	E CAPACITOR E CAPACITOR	22uF 25V 10uF 35V	
	1SS133-T2	SI DIODE				QFG32AJ-222Z	PP CAPACITOR		
D2112 D2113	100100-12	OIDIODE			C4153	ULG9/A/I-///	PP GAPAGITOR	2200pF 100V J	

⚠ Symbol No.	Part No.	Part Name	Description	Local	⚠ Symbol No.	Part No.	Part Name	Description	Local
C4155	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J		C8002	QER61CM-226Z	E CAPACITOR	22uF 16V M	
C4156	QTE1H15-106Z	E CAPACITOR	10uF 50V		C8101	NCF21HZ-104X	C CAPACITOR	0.1uF 50V Z	
C4157	QETN1HM-106Z	E CAPACITOR	10uF 50V M		C8103	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C4158	QETN1HM-106Z	E CAPACITOR	10uF 50V M		C8104	QER61CM-107Z	E CAPACITOR	100uF 16V M	
C4159 C4172	QETN1HM-106Z QFVF1HJ-474Z	E CAPACITOR MF CAPACITOR	10uF 50V M 0.47uF 50V J		C8105 C8106	NCB31EK-104X NCB31EK-104X	C CAPACITOR C CAPACITOR	0.1uF 25V K 0.1uF 25V K	
C4172	QFZ0217-473	PP CAPACITOR	0.47uF		C8107	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C4174	QFZ0217-473	PP CAPACITOR	0.047uF		C8108	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C4175	QTE1V06-106Z	E CAPACITOR	10uF 35V		C8109	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C4191	QTE1V06-106Z	E CAPACITOR	10uF 35V					·	
C4192	QTE1V06-106Z	E CAPACITOR	10uF 35V		R2001	NRSA63J-225X	MG RESISTOR	2.2MQ 1/16W J	
C4225	NCS31HJ-221X	C CAPACITOR	220pF 50V J		R2002	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C4226	NCS31HJ-221X	C CAPACITOR	220pF 50V J		R2003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C4231 C4232	QFG32AJ-102Z QFG32AJ-122Z	PP CAPACITOR PP CAPACITOR	1000pF 100V J 1200pF 100V J		R2004 R2005	NRSA63J-822X NRSA63J-103X	MG RESISTOR MG RESISTOR	8.2kΩ 1/16W J 10kΩ 1/16W J	
C4234	QTE1E06-226Z	E CAPACITOR	22uF 25V		R2006	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C4251	QTE1V06-106Z	E CAPACITOR	10uF 35V		R2007	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
C4253	QFG32AJ-222Z	PP CAPACITOR	2200pF 100V J		R2007	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
C4254	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J		R2008	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
C4255	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J		R2009	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C4256	QTE1H15-106Z	E CAPACITOR	10uF 50V		R2010	NRSA63J-102X	MG RESISTOR	1k Ω 1/16W J	
C4257	QETN1HM-106Z	E CAPACITOR	10uF 50V M		R2012	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C4258	QETN1HM-106Z	E CAPACITOR	10uF 50V M		R2013	NRSA63J-472X	MG RESISTOR	4.7kQ 1/16W J	
C4259	QETN1HM-106Z QFVF1HJ-474Z	E CAPACITOR	10uF 50V M		R2014	NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16W J	
C4272 C4273	QFZ0217-473	MF CAPACITOR PP CAPACITOR	0.47uF 50V J 0.047uF		R2015 R2016	NRSA63J-470X NRSA63J-221X	MG RESISTOR	47Ω 1/16W J 220Ω 1/16W J	
C4274	QFZ0217-473	PP CAPACITOR	0.047uF		R2017	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C4275	QTE1V06-106Z	E CAPACITOR	10uF 35V		R2018	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C4291	QTE1V06-226Z	E CAPACITOR	22uF 35V		R2019	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C4292	QTE1V06-106Z	E CAPACITOR	10uF 35V		R2104	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C4312	QETN1HM-106Z	E CAPACITOR	10uF 50V M		R2105	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C4313	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R2108	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
C4314	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R2112	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C4315 C4316	NCF21CZ-105X NCB31CK-103X	C CAPACITOR C CAPACITOR	1uF 16V Z 0.01uF 16V K		R2113 R2114	NRSA63J-472X NRSA63J-101X	MG RESISTOR MG RESISTOR	4.7kΩ 1/16W J 100Ω 1/16W J	
C4310	NCB31CK-103X	C CAPACITOR	0.01uF 16V K		R2114 R2115	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
C4331	QETN1EM-107Z	E CAPACITOR	100uF 25V M		R2116	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C4332	QTE1E06-476Z	E CAPACITOR	47uF 25V		R2117	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C4333	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z		R2118	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C4351	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R2119	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
C4352	QETN1HM-476Z	E CAPACITOR	47uF 50V M		R2204	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C4353 C4359	QFVF1HJ-334Z	MF CAPACITOR	0.33uF 50V J		R2205 R2206	NRSA63J-103X	MG RESISTOR MG RESISTOR	10kΩ 1/16W J	
C4359 C4371	QETN1CM-476Z QETN1CM-107Z	E CAPACITOR E CAPACITOR	47uF 16V M 100uF 16V M		R2206	NRSA63J-113X NRSA63J-123X	MG RESISTOR	11kΩ 1/16W J 12kΩ 1/16W J	
C4372	QETN1HM-106Z	E CAPACITOR	10uF 50V M		R2207	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
C4373	QETN1HM-105Z	E CAPACITOR	1uF 50V M		R2212	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C4374	QTE1C05-227	E CAPACITOR	220uF 16V		R2213	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C4391	QETN1CM-227Z	E CAPACITOR	220uF 16V M		R2214	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C4392	QETN1EM-476Z	E CAPACITOR	47uF 25V M		R2215	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
C6021	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	A	R2216	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
C6022 C6023	QETN0JM-477Z QETN0JM-477Z	E CAPACITOR E CAPACITOR	470uF 6.3V M 470uF 6.3V M	A	R2217 R2218	NRSA63J-472X NRSA63J-223X	MG RESISTOR	4.7kΩ 1/16W J 22kΩ 1/16W J	
C6023	NCS31HJ-101X	C CAPACITOR	100pF 50V J	A A	R2210 R2219	NRSA63J-273X	MG RESISTOR MG RESISTOR	27kΩ 1/16W J	
C6025	NCS31HJ-101X	C CAPACITOR	100pF 50V J	A	R2301	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
C6026	NCS31HJ-101X	C CAPACITOR	100pF 50V J	A	R2302	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C6027	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	Α	R2303	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C6028	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	Α	R2305	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
C6031	NCS31HJ-181X	C CAPACITOR	180pF 50V J	B,E,EE, EN,EV	R2305	NRSA63J-363X	MG RESISTOR	36kΩ 1/16W J	
				B,E,EE,	R2306	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C6032	NCS31HJ-181X	C CAPACITOR	180pF 50V J	EN,EV	R2307 R2308	NRSA63J-104X NRSA63J-223X	MG RESISTOR MG RESISTOR	100kΩ 1/16W J 22kΩ 1/16W J	
00000	NOOMILLADAY	O OADAOITOD	400- 5 50) / 1	B,E,EE,	R2308	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
C6033	NCS31HJ-181X	C CAPACITOR	180pF 50V J	EN,EV	R2311	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
C6034	NCS31HJ-181X	C CAPACITOR	180pF 50V J	B,E,EE, EN,EV	R2312	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
0000.		0 0/11/10/10/10	.000.007.0	EN,EV	R2313	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C6035	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	B,E,EE, EN,EV	R2314	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
	057110114.4777	5 0 4 D 4 0 1 T 0 D	.=0 = 0 0 / 1 /	B,E,EE,	R2315	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
C6036	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	EN,EV	R2316	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C6037	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	B,E,EE,	R2317	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
00001	NODOTHIC TOOK	o on non on	0.01dl 00V IX	EN,EV	R2402	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C6038	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	B,E,EE, EN,EV	R2403 R2404	NRSA63J-563X NRSA63J-103X	MG RESISTOR MG RESISTOR	56kΩ 1/16W J 10kΩ 1/16W J	
000	OFT. 0 11.1 :===	E 0/5/0/===	470 - 0 - 1 - 1	B,E,EE,	R2405	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C6039	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	EN,EV	R2406	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
C6040	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	B,E,EE,	R2407	QRE141J-391Y	C RESISTOR	390Ω 1/4W J	
				EN,EV	R2411	QRT01DJ-R47X-M	MF RESISTOR	0.47Ω 1W J	
C6051 C8001	NCS31HJ-101X	C CAPACITOR	100pF 50V J	Α	R2412	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
O0001	NCB31HK-102X	C CAPACITOR	1000pF 50V K		R2413	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	

↑ Symbol No.	Part No.	Part Name	Description	Local	⚠ Symbol No.	Part No.	Part Name	Description	Loca
R2416	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J		R4252	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R2421	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R4253	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J	
R2422	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R4254	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R2423	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J		R4271	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R2441	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J 10kΩ 1/16W J		R4272	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R2442 R2443	NRSA63J-103X NRSA63J-472X	MG RESISTOR MG RESISTOR	4.7kΩ 1/16W J		R4273 R4274	NRSA63J-182X NRSA63J-122X	MG RESISTOR MG RESISTOR	1.8kΩ 1/16W J 1.2kΩ 1/16W J	
R2444	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R4275	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R2445	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R4276	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2446	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R4277	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2447	NRSA63J-104X	MG RESISTOR	100k <u>Ω</u> 1/16W J		R4278	NRSA63J-332X	MG RESISTOR	3.3k\\(\Omega\) 1/16W J	
R2448	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R4279	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2449	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R4281	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R2450 R2505	NRSA63J-103X NRSA63J-512X	MG RESISTOR MG RESISTOR	10kΩ 1/16W J 5.1kΩ 1/16W J		R4291 R4292	NRSA63J-102X NRSA63J-223X	MG RESISTOR MG RESISTOR	1kΩ 1/16W J 22kΩ 1/16W J	
R2506	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		R4293	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2602	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		R4311	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2603	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		R4312	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2604	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		R4313	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2701	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		R4314	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2705	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R4315	NRSA63J-473X	MG RESISTOR	47 k Ω 1/16W J	
R2706	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J		R4331	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R2712	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R4332	NRSA63J-822X	MG RESISTOR	8.2k\(\Omega\) 1/16W J	
R2715 R2716	NRSA63J-103X NRSA63J-103X	MG RESISTOR MG RESISTOR	10kΩ 1/16W J 10kΩ 1/16W J		R4333 R4351	NRSA63J-562X QRE141J-101Y	MG RESISTOR C RESISTOR	5.6kΩ 1/16W J 100Ω 1/4W J	
				B,E,EE,	R4358	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2723	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	EN,EV	R4359	QRZ9006-4R7X	F.RESISTOR	4.7Ω 1/4W J	
R2801	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	,	R4371	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R2802	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R4372	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R2803	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R4373	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2804	QRE141J-101Y	C RESISTOR	100Ω 1/4W J		R4374	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2805	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J		R4375	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R2806 R2807	NRSA63J-331X NRSA63J-562X	MG RESISTOR	330Ω 1/16W J		R4376	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2808	NRSA63J-222X	MG RESISTOR MG RESISTOR	5.6kΩ 1/16W J 2.2kΩ 1/16W J		R4377	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R2811	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R4391 R4392	QRE141J-101Y NRSA63J-152X	C RESISTOR MG RESISTOR	100Ω 1/4W J 1.5kΩ 1/16W J	
R2812	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J		R4393	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3020	QRJ146J-221X	UNF C RESISTOR	220Ω 1/4W J	В	R4394	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R4121	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R4395	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4125	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		R4396	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4126	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J		R4397	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R4131	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J		R4398	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R4133	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D		R6021	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	Α
R4134 R4135	NRSA63J-182X NRSA63J-183X	MG RESISTOR MG RESISTOR	1.8kΩ 1/16W J		R6022	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	Α
R4136	NRSA63J-103X	MG RESISTOR	18kΩ 1/16W J 10kΩ 1/16W J		R6023	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	A B,E,
R4137	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		R6031	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	D,⊏, EN,I
R4138	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		D0000	NIDO AGO LAFAY	MO DECICTOR	4 FO(2) 4/4 O(M)	B,E,
R4150	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R6032	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	EN,
R4151	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		R6033	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	B,E,
R4152	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		110000	1111071000 10171	INO TEDIOTOR	100142 17 1017 0	EN,I
R4153	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J		R6034	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	B,E, EN,I
R4154	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J						
R4171	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J		R6035	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	B,E, EN,I
R4172 R4173	NRSA63J-224X NRSA63J-182X	MG RESISTOR MG RESISTOR	220kΩ 1/16W J 1.8kΩ 1/16W J		R6036	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	B,E,
R4174	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		1,0000	WKOA000-100X	WIG TEGIOTOR	10122 1/1044 5	EN,I
R4175	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R6037	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	B,E,
R4176	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J						EN,I
R4177	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R6038	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	B,E, EN,I
R4178	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		D0000	NIDO AGO L ZEOV	MO DEGICTOR	7FO 4/40W I	B,E,
R4179	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R6039	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	EN,
R4181	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		R7021	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	В
R4191	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R7022	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	В
R4192	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R7064	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	В
R4193 R4221	NRSA63J-222X NRSA63J-473X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W J 47kΩ 1/16W J		R7066	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	B
R4221 R4225	NRSA63J-153X	MG RESISTOR	47kΩ 1/16W J 15kΩ 1/16W J		R7067 R7070	NRSA63J-222X NRSA63J-222X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W J 2.2kΩ 1/16W J	B B
R4226	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J		R7070 R7167	NRSA63J-103X	MG RESISTOR	2.2kΩ 1/16W J 10kΩ 1/16W J	В
R4231	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J		R8001	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	ט
R4233	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D		R8101	QRE141J-2R2Y	C RESISTOR	2.2 <u>Q</u> 1/4W J	
R4234	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J		R8201	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R4235	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		R8202	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R4236	NRSA63J-103X	MG RESISTOR	$10k\Omega$ 1/16W J		R8203	NRSA63J-392X	MG RESISTOR	$3.9 \mathrm{k}\Omega$ 1/16W J	
R4237	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		R8204	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R4238	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R8205	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
D 4050	AUDUA LUDUA	MG RESISTOR	0Ω 1/16W J						
R4250 R4251	NRSA63J-0R0X NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		L1281	QQR0797-002	COIL		В

⚠ Symbol No.	Part No.	Part Name	Description	Local	⚠ Symbol No.	Part No.	Part Name	Description	Local
L2001 L2101 L2201 L2231	QQL28AK-470 QQL28AK-470 QQL28AK-470 QQL70AK-150	CHOKE COIL CHOKE COIL CHOKE COIL DUCTOR	47uH K 47uH K 47uH K 15uH K		Q7512 Q7513 Q7514	UN2213-X UN2213-X 2SA1530A/QR/-X	DIGI TRANSISTOR DIGI TRANSISTOR TRANSISTOR TRANSISTOR		B,E,EE,
L2401 L2501	QQLZ003-1R0 QQL70AK-470	COIL COIL	1uH 47uH K		Q7601	UN2111-X			EŃ,ÉV B,E,EE,
CN201 CN202 CN204 CN205 CN401	QGA3901F1-04 QGF1205F1-21 QGF1016F3-19 QGA2501F1-03 QGA2501F1-07	CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR	W-B (1-4) FFC/FPC (1-21) FFC/FPC (1-19) W-B (1-3) W-B (1-7)	0.5.55	Q7602 Q7701 Q7702 Q7712 Q7713 Q7801 Q7802	UN2211-X UN2111-X 2SD601A/RS/-X UN2211-X 2SC3928A/QR/-X KTC3195/O/-T KTC3195/O/-T	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		EN,EV
CN602	QGF1205C1-13	CONNECTOR	FFC/FPC (1-13)	B,E,EE, EN,EV					
CN612 CN804 CP221 DI811 FT241 FT242 J4101	QGF1205C1-09 QGB1216K1-18S ICP-S2.3-X QLF0125-001 QNG0003-001Z QNG0003-001Z QNN0585-001	CONNECTOR CONNECTOR IC PROTECTOR FL TUBE FUSE CLIP FUSE CLIP PIN JACK	FFC/FPC (1-9) B-B (1-18) 2.3A	A	D6091 D7001 D7301 D7302 D7401 D7701 D7702	MTZJ6.2C-T2 MA111-X 1SS133-T2 MTZJ5.1B-T2 1SS133-T2 1SS133-T2 MTZJ10B-T2	Z DIODE SI DIODE SI DIODE Z DIODE SI DIODE SI DIODE Z DIODE		
J6001 J6002 JS801	QNZ0625-001 QNN0386-001 QSW1042-001	RGB CONNECTOR PIN JACK ROTARY ENCODER		B,E,EE, EN,EV A	D7703 D7711 D7713 D7715	MTZJ8.2B-T2 1SS133-T2 1SS133-T2 1SS133-T2	Z DIODE SI DIODE SI DIODE SI DIODE		
K4302 S6051	QQR0621-001Z QSW0454-001	COIL SW		A	D7716 D7717	1SS133-T2 RB521S-30-X	SI DIODE SB DIODE		
S6052 S8201	QSW0454-001 QSW0683-001Z	SW PUSH SW		B,E,EE, EN,EV	C1181 C1182	NCS31HJ-221X NCB31EK-332X	C CAPACITOR C CAPACITOR	220pF 50V J 3300pF 25V K	
S8202 S8203	QSW0683-001Z QSW0683-001Z	PUSH SW PUSH SW			C1184	NCS31HJ-221X	C CAPACITOR	220pF 50V J	AFFF
S8204 S8205	QSW0683-001Z QSW0683-001Z	PUSH SW PUSH SW			C1281	NCS31HJ-221X	C CAPACITOR	220pF 50V J	A,E,EE, EN,EV A F FF
\$8206 \$8207 \$8208 TH261 TP201 TP202 W1	QSW0683-001Z QSW0683-001Z QSW0683-001Z NAD0025-333X QNZ0104-001 QNZ0104-001 QUB07Z-22PPPP	PUSH SW PUSH SW PUSH SW N THERMISTOR POST PIN POST PIN SIN TWIST WIRE	33kΩ		C1282 C1284 C1381 C4101 C4102 C4103 C4104	NCB31EK-332X NCS31HJ-221X NCS31HJ-101X QEKC1AM-227Z NCS31HJ-221X NCS31HJ-151X QER61HM-475Z	C CAPACITOR C CAPACITOR C CAPACITOR E CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR E CAPACITOR	3300pF 25V K 220pF 50V J 100pF 50V J 220uF 10V M 220pF 50V J 150pF 50V J 4.7uF 50V M	A,E,EE, EN,EV
W2 WC201	QUB070-22PPPP QZW0112-002	SIN TWIST WIRE WIRE CLAMP			C4106	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	B,E,EE, EN,EV
	n board	VIII C SEP WII			C4201 C4202 C4203 C4204	QEKC1AM-227Z NCS31HJ-221X NCS31HJ-151X QER61HM-475Z	E CAPACITOR C CAPACITOR C CAPACITOR E CAPACITOR	220uF 10V M 220pF 50V J 150pF 50V J 4.7uF 50V M	
			Block No.	[0][2]	C4206	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	B,E,EE, EN,EV
⚠ Symbol No.	Part No.	Part Name	Description	Local	C4301 C4302 C4303 C4304	QETN1EM-476Z QETN1CM-227Z QETN1HM-475Z NCB31CK-104X	E CAPACITOR E CAPACITOR E CAPACITOR C CAPACITOR	47uF 25V M 220uF 16V M 4.7uF 50V M 0.1uF 16V K	
IC401 IC601 IC602 IC603 IC611 IC701 IC711 IC751	NJM4565M-W MM1623XF-X SN74AHCT08NS-X SN74LVC08ANS-X GP1FA352TZ UPD784217AGF546 BR24L02F-W-X LB1641	IC IC IC IC OPT TRANSMITTER IC(ROM MICOM) IC IC			C4305 C6001 C6002 C6003 C6004 C6005 C6006 C6007	NCB31CK-103X QETN1AM-477Z NCF31CZ-104X QFV61HJ-104Z QFV61HJ-104Z QFV61HJ-104Z QFV61HJ-104Z QFV61HJ-104Z QFV61HJ-104Z	C CAPACITOR E CAPACITOR C CAPACITOR MF CAPACITOR MF CAPACITOR MF CAPACITOR MF CAPACITOR MF CAPACITOR	0.01uF 16V K 470uF 10V M 0.1uF 16V Z 0.1uF 50V J 0.1uF 50V J 0.1uF 50V J 0.1uF 50V J 0.1uF 50V J	
IC761	SAA6588T/V2-X	IC		B,E,EE, EN,EV	C6008 C6011	QER61EM-226Z QETN1EM-476Z	E CAPACITOR E CAPACITOR	22uF 25V M 47uF 25V M	
Q4101 Q4102 Q4201 Q4202 Q4301	2SC3661-X 2SC3661-X 2SC3661-X 2SC3661-X UN211L-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR			C6013 C6014 C6090 C6091 C6092 C6093 C6094	NCB31EK-104X NCB31EK-104X NCB31CK-104X QETN0JM-477Z QETN0JM-477Z NCB31CK-104X NCS31HJ-181X	C CAPACITOR C CAPACITOR C CAPACITOR E CAPACITOR E CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR	0.1uF 25V K 0.1uF 25V K 0.1uF 16V K 470uF 6.3V M 470uF 6.3V M 0.1uF 16V K 180pF 50V J	A A A
Q6052	UN2214-X	TRANSISTOR		B,E,EE, EN,EV	C6095	NCS31HJ-181X	C CAPACITOR	180pF 50V J	Α
Q6053	UN2113-X	DIGI TRANSISTOR		B,E,EE, EN,EV B E EE	C6096 C6100	NCS31HJ-181X NCS31HJ-221X	C CAPACITOR C CAPACITOR	180pF 50V J 220pF 50V J	Α
Q6054 Q7301 Q7302 Q7401 Q7511	UN2214-X 2SA1530A/QR/-X 2SC3928A/QR/-X UN2214-X UN2213-X	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGI TRANSISTOR		B,E,EE, EN,EV	C6101 C7015 C7024 C7181 C7182 C7190	NCB31EK-104X NCB31HK-103X NCB31HK-103X QCFB1HZ-105Y QER61CM-107Z QETN1HM-105Z	C CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR	0.1uF 25V K 0.01uF 50V K 0.01uF 50V K 1uF 50V Z 100uF 16V M 1uF 50V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local	⚠ Symbol No.	Part No.	Part Name	Description	Local
C7191	QETN1HM-105Z	E CAPACITOR	1uF 50V M		R6009	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	B,E,EE,
C7275 C7276	QER61HM-106Z	E CAPACITOR C CAPACITOR	10uF 50V M 0.01uF 50V K		R6010	NRSA63J-241X	MG RESISTOR	240Ω 1/16W J	en,ev A
C7301	NCB31HK-103X QETN1HM-106Z	E CAPACITOR	10uF 50V M		R6010	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	B,E,EE,
C7302	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	D.E.EE	R6011	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	EN,EV
C7305	NCB31HK-822X	C CAPACITOR	8200pF 50V K	B,E,EE, EN,EV	R6013	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
C7306	NCB31HK-822X	C CAPACITOR	8200pF 50V K	B,E,EE,	R6014	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
C7401	NCS31HJ-331X	C CAPACITOR	330pF 50V J	EN,EV	⚠ R6015	QRZ9015-2R2X	FUSI RESISTOR	2.2Ω	R F FF
C7509	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K		R6051	QRE141J-431Y	C RESISTOR	430Ω 1/4W J	B,E,EE, EN,EV
C7511	QCFB1HZ-105Y	C CAPACITOR	1uF 50V Z		R6091 R6092	NRSA63J-750X NRSA63J-750X	MG RESISTOR MG RESISTOR	75Ω 1/16W J 75Ω 1/16W J	A A
C7512 C7513	QETN1CM-337Z QETN1CM-226Z	E CAPACITOR E CAPACITOR	330uF 16V M 22uF 16V M		R6093	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	A
C7601	QETN1HM-106Z	E CAPACITOR	10uF 50V M	B,E,EE,	R6095	NRSA63J-101X	MG RESISTOR	100 Ω 1/16W J	
	QETIVITINI 1002			EN,EV B,E,EE,	R6096 R7001	NRSA63J-101X NRSA63J-222X	MG RESISTOR MG RESISTOR	100Ω 1/16W J 2.2kΩ 1/16W J	
C7602	NCB31HK-561X	C CAPACITOR	560pF 50V K	EN,EV	R7001	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C7603	QER61HM-225Z	E CAPACITOR	2.2uF 50V M	B,E,EE,	R7003	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
				EN,EV B,E,EE,	R7004 R7005	NRSA63J-222X NRSA63J-222X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W J 2.2kΩ 1/16W J	
C7604	NCB31HK-331X	C CAPACITOR	330pF 50V K	EN,EV	R7006	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C7605	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	B,E,EE, EN,EV	R7007	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C7606	NCS31HJ-820X	C CAPACITOR	82pF 50V J	B,E,EE,	R7008 R7015	NRSA63J-222X NRSA63J-103X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W J 10kΩ 1/16W J	
C/606	NC331HJ-02UA	CCAPACITOR	02pr 50V J	EN,EV	R7015	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C7607	NCS31HJ-470X	C CAPACITOR	47pF 50V J	B,E,EE, EN,EV	R7018	NRSA63J-102X	MG RESISTOR	1k Ω 1/16W J	
C7608	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	B,E,EE,	R7019 R7020	NRSA63J-222X NRSA63J-102X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W J 1kΩ 1/16W J	
C7701	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	EN,EV					E.EE.
C7703	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R7021	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	E,EE, EN,EV
C7711	QETN0JM-228Z	E CAPACITOR	2200uF 6.3V M		R7022	NRSA63J-222X	MG RESISTOR	$2.2k\Omega$ 1/16W J	E,EE, EN,EV
C7712 C7801	QER61HM-225Z NCS31HJ-102X	E CAPACITOR C CAPACITOR	2.2uF 50V M 1000pF 50V J		R7025	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	L14, L V
C7802	NCS31HJ-102X	C CAPACITOR	1000pF 50V J		R7026	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C7803	NCS31HJ-390X	C CAPACITOR	39pF 50V J		R7027 R7028	NRSA63J-222X NRSA63J-222X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W J 2.2kΩ 1/16W J	
C7804 C7805	NCS31HJ-390X NCS31HJ-330X	C CAPACITOR C CAPACITOR	39pF 50V J 33pF 50V J		R7029	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C7806	NCS31HJ-330X	C CAPACITOR	33pF 50V J		R7030	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
					R7031 R7032	NRSA63J-222X NRSA63J-222X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W J 2.2kΩ 1/16W J	
R4101 R4102	QRE141J-102Y NRSA63J-222X	C RESISTOR MG RESISTOR	1kΩ 1/4W J 2.2kΩ 1/16W J		R7038	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4103	QRE141J-220Y	C RESISTOR	22Ω 1/4W J		R7039	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4105	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R7040 R7041	NRSA63J-102X NRSA63J-222X	MG RESISTOR MG RESISTOR	1kΩ 1/16W J 2.2kΩ 1/16W J	
R4106 R4107	NRSA63J-473X NRSA63J-272X	MG RESISTOR MG RESISTOR	47kΩ 1/16W J 2.7kΩ 1/16W J		R7042	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4110	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J		R7043	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4111	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		R7044 R7045	NRSA63J-222X NRSA63J-100X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W J 10Ω 1/16W J	
R4112 R4201	NRSA63J-332X NRSA63J-102X	MG RESISTOR MG RESISTOR	3.3kΩ 1/16W J 1kΩ 1/16W J		R7046	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R4202	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R7047	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R4203	QRE141J-220Y	C RESISTOR	22Ω 1/4W J		R7048 R7049	NRSA63J-222X NRSA63J-222X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W J 2.2kΩ 1/16W J	
R4205 R4206	NRSA63J-103X NRSA63J-473X	MG RESISTOR MG RESISTOR	10kΩ 1/16W J 47kΩ 1/16W J		R7050	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4207	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J		R7051	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4210	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R7052 R7054	NRSA63J-104X NRSA63J-102X	MG RESISTOR MG RESISTOR	100kΩ 1/16W J 1kΩ 1/16W J	
R4211 R4212	NRSA63J-332X NRSA63J-332X	MG RESISTOR MG RESISTOR	3.3kΩ 1/16W J 3.3kΩ 1/16W J		R7055	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	- 1
R4301	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J		R7056	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4302	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R7058 R7059	NRSA63J-222X NRSA63J-222X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W J 2.2kΩ 1/16W J	
R4304 R4305	NRSA63J-103X QRE141J-102Y	MG RESISTOR C RESISTOR	10kΩ 1/16W J 1kΩ 1/4W J		R7060	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6001	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R7061	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6002	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J		R7062 R7063	NRSA63J-222X NRSA63J-222X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W J 2.2kΩ 1/16W J	
R6003 R6004	NRSA63J-331X NRSA63J-361X	MG RESISTOR MG RESISTOR	330Ω 1/16W J 360Ω 1/16W J		R7064	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	E,EE,
R6004 R6005	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	Α	11/004	MINOMODI-ZZZA	IVIG INLOIGIUM	2.2N22 1/10VV J	E,EE, EN,EV
R6005	NRSA63J-121X	MG RESISTOR	120 <u>Ω</u> 1/16W J	B,E,EE,	R7066	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	e,ee, en,ev
R6006	NRSA63J-361X	MG RESISTOR	360Ω 1/16W J	EN,EV A	R7067	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	a,e,ee, en,ev
R6006	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	B,E,EE, EN,EV	R7068	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	ĽIN,ĽV
R6007	NRSA63J-131X	MG RESISTOR	130 <u>Ω</u> 1/16W J	A A	R7069	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	E EE
R6007	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	B,E,EE,	R7070	NRSA63J-222X	MG RESISTOR	$2.2k\Omega$ 1/16W J	e,ee, en,ev
				EN,EV	R7071	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	•
R6008	NRSA63J-241X	MG RESISTOR	240Ω 1/16W J	А	D7070	VIDO VOO I COOV	MO DEGICTOR	0.01-0.4/40/4/	
R6008 R6008	NRSA63J-241X NRSA63J-301X	MG RESISTOR MG RESISTOR	240Ω1/16W J 300Ω1/16W J	a B,e,ee, En,ev	R7073 R7074	NRSA63J-222X NRSA63J-222X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W J 2.2kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local	⚠ Symbol No.	Part No.	Part Name	Description	Local
R7078 R7079 R7080 R7082 R7084 R7086 R7087 R7088	NRSA63J-222X NRSA63J-222X NRSA63J-222X NRSA63J-222X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X	MG RESISTOR	2.2kΩ 1/16W J 2.2kΩ 1/16W J 2.2kΩ 1/16W J 2.2kΩ 1/16W J 1kΩ 1/16W J 0Ω 1/16W J 1kΩ 1/16W J		CN631 CN701 CN704 CN705 CN706 CN707 EP601 J3001	QGF1016C1-17 QGF1016C1-05 QGB1216J1-18S QGF1205C1-11 QGA2501F1-12 QGF1205F1-21 QNZ0136-001Z QNB0196-001	CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR EARTH PLATE SPK TERMINAL	FFC/FPC (1-17) FFC/FPC (1-5) B-B (1-18) FFC/FPC (1-11) W-B (1-12) FFC/FPC (1-21)	A
R7089	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		J3001	QNB0186-001	SPK TERMINAL		B,E,EE, EN,EV
R7090 R7091 R7092 R7093 R7094 R7102 R7104 R7105 R7124	NRSA63J-101X NRSA63J-101X NRSA63J-222X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X	MG RESISTOR	100Ω 1/16W J 100Ω 1/16W J 2.2kΩ 1/16W J 2.2kΩ 1/16W J 10kΩ 1/16W J 10kΩ 1/16W J 10kΩ 1/16W J 10kΩ 1/16W J 10kΩ 1/16W J 10kΩ 1/16W J		J4001 J6004 J6005 K4101 K4201 K4301 K6001 K6011	QNS0223-001 QNN0557-002 QNS0089-001 NQR0007-002X NQR0007-002X NQR0007-002X QQR0621-001Z QQR0621-001Z	3.5 JACK PIN JACK 3.5 JACK FERRITE BEADS FERRITE BEADS FERRITE BEADS COIL		A A
R7125	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		K6091 K7038	QQR0621-001Z QQR0621-001Z	COIL COIL		
R7126 R7140 R7167	NRSA63J-103X NRSA63J-103X NRSA63J-103X	MG RESISTOR MG RESISTOR MG RESISTOR	10kΩ 1/16W J 10kΩ 1/16W J 10kΩ 1/16W J	A,E,EE, EN,EV	K7039 K7275 K7501	QQR0621-001Z QQR0621-001Z QQR0621-001Z	COIL COIL COIL		
R7169	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	,	K7601	QQR0621-001Z	COIL		B,E,EE,
R7179 R7192 R7193	QRE141J-103Y NRSA63J-103X NRSA63J-103X	C RESISTOR MG RESISTOR MG RESISTOR	10kΩ 1/4W J 10kΩ 1/16W J 10kΩ 1/16W J		K7701 WC101	QQR0621-001Z QZW0112-002	COIL WIRE CLAMP		EN,EV
R7224	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	Α	X7601	QAX0263-001Z	CRYSTAL	4.332MHz	B,E,EE, EN,EV
R7275 R7276	QRE141J-101Y NRSA63J-104X	C RESISTOR MG RESISTOR	100Ω 1/4W J 100kΩ 1/16W J		X7801	QAX0416-001Z	C RESONATOR	8.000MHz	LIN,LV
R7301	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
R7302	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R7401 R7402	NRSA63J-103X NRSA63J-102X	MG RESISTOR MG RESISTOR	10kΩ 1/16W J 1kΩ 1/16W J		Digital	amplifier I	ooard		
R7403	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		g			Disal: Na	101101
R7405	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J					Block No.	ပြုသြ
R7513 R7514	NRSA63J-101X NRSA63J-103X	MG RESISTOR MG RESISTOR	100Ω 1/16W J 10kΩ 1/16W J		⚠ Symbol No.	Part No.	Part Name	Description	Local
R7515	NRSA63J-132X	MG RESISTOR	1.3kΩ 1/16W J						
R7516	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J		IC111	NJM4580M-X	IC		
⚠ R7517 R7518	QRZ9015-4R7X NRSA63J-392X	FUSI RESISTOR MG RESISTOR	4.7Ω 3.9kΩ 1/16W J		IC112	NJU7109F3-X	IC		
R7519	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J		IC113 IC121	SN74AHC1G00V-X NJM4580M-X	IC IC		
R7520	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	חברר	IC121	NJU7109F3-X	IC		
R7601	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	B,E,EE, EN,EV	IC123	SN74AHC1G00V-X	IC		
R7602	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	B,E,EE,	IC131 ⚠IC132	NJM2115V-W STA505-X	IC IC		
				EN,EV B,E,EE,	IC301	SN74HCU04ANS-X	IC		
R7603 R7604	NRSA63J-103X NRSA63J-103X	MG RESISTOR MG RESISTOR	10kΩ 1/16W J 10kΩ 1/16W J	EN,EV B,E,EE, EN,EV	IC302 ⚠IC303	SN74LV00ANS-X NJM78L05A-T	IC IC		
R7605	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	B,E,EE, EN,EV	Q1101	UN211E-X	DIGI TRANSISTOR		
R7701	NRSA63J-104X		100kΩ 1/16W J	EN,EV	Q1102	UN211E-X	DIGI TRANSISTOR		
R7701	NRSA63J-333X	MG RESISTOR MG RESISTOR	33kΩ 1/16W J		Q1103 Q1104	2SC3661-X UMY1N-W	TRANSISTOR TRANSISTOR		
R7703	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		Q1201	UN211E-X	DIGI TRANSISTOR		
R7704 R7711	NRSA63J-103X QRE141J-331Y	MG RESISTOR C RESISTOR	10kΩ 1/16W J 330Ω 1/4W J		Q1202	UN211E-X	DIGI TRANSISTOR		
R7712	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		Q1203 Q1204	2SC3661-X UMY1N-W	TRANSISTOR TRANSISTOR		
R7715	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		Q3002	KTA1267/YG/-T	TRANSISTOR		
R7716 ⚠ R7720	NRSA63J-473X QRZ9015-2R2X	MG RESISTOR FUSI RESISTOR	47kΩ 1/16W J 2.2Ω		Q3003 Q3004	2SC3928A/QR/-X 2SC3928A/QR/-X	TRANSISTOR TRANSISTOR		
R7801	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		Q3004 Q3005	2SC3928A/QR/-X	TRANSISTOR		
R7802	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		Q3006	2SA1530A/QR/-X	TRANSISTOR		
R7803 R7804	NRSA63J-822X NRSA63J-822X	MG RESISTOR MG RESISTOR	8.2kΩ 1/16W J 8.2kΩ 1/16W J		Q3007	UN2112-X	DIGI TRANSISTOR		
					D1104	MA152WK-X	SI DIODE		
L1181	QQR0797-002	COIL		A,E,EE,	D1203	UDZS6.8B-X	Z DIODE SI DIODE		
L1281	QQR0797-002	COIL		EN,EV	D3001 D3003	MA152WK-X MA152WK-X	SI DIODE SI DIODE		
L6011 L7024	QQL244K-4R7Z QQL244K-100Z	COIL	4.7uH K 10uH K						
L7024 L7501	QQL244K-100Z QQL244K-100Z	COIL COIL	10uH K 10uH K		C1101 C1102	QTE1V06-106Z NCB31HK-222X	E CAPACITOR C CAPACITOR	10uF 35V 2200pF 50V K	
L7701	QQL244K-100Z	COIL	10uH K		C1102 C1103	NCB31HK-222X	C CAPACITOR C CAPACITOR	2200pF 50V K	
				D E EE	C1104	NCB31HK-471X	C CAPACITOR	470pF 50V K	
CN601	QGF1205F1-13	CONNECTOR	FFC/FPC (1-13)	B,E,EE, EN,EV	C1105 C1106	QTE1H06-475Z QTE1V06-106Z	E CAPACITOR E CAPACITOR	4.7uF 50V 10uF 35V	
CN611	QGF1205F1-09	CONNECTOR	FFC/FPC (1-9)	Α	C1107	NCB31HK-122X	C CAPACITOR	1200pF 50V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local	⚠ Symbol No.	Part No.	Part Name	Description	Local
C1108	NCB31HK-331X	C CAPACITOR	330pF 50V K		C3012	QFVF1HJ-334Z	MF CAPACITOR	0.33uF 50V J	
C1109 C1110	NCS31HJ-220X	C CAPACITOR	22pF 50V J 22pF 50V J		C3013 C3015	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C1110	NCS31HJ-220X NCS31HJ-220X	C CAPACITOR C CAPACITOR	22pF 50V J 22pF 50V J		C3015	QER61HM-106Z QER61HM-106Z	E CAPACITOR E CAPACITOR	10uF 50V M 10uF 50V M	
C1113	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C3017	QER61HM-106Z	E CAPACITOR	10uF 50V M	
C1114	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C3018	QER61HM-106Z	E CAPACITOR	10uF 50V M	
C1115	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		C3019 C3020	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C1118 C1123	NCB21HK-104X QTE1V06-106Z	C CAPACITOR E CAPACITOR	0.1uF 50V K 10uF 35V		C3020	QFVF1HJ-474Z QFVF1HJ-474Z	MF CAPACITOR MF CAPACITOR	0.47uF 50V J 0.47uF 50V J	
C1124	NCS31HJ-101X	C CAPACITOR	100pF 50V J		C3022	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C1125	QFVF1HJ-684Z	MF CAPACITOR	0.68uF 50V J		C3025	QER61HM-106Z	E CAPACITOR	10uF 50V M	
C1126 C1127	NCB21HK-104X NCB21HK-104X	C CAPACITOR C CAPACITOR	0.1uF 50V K 0.1uF 50V K		C3026 C3027	NCB31CK-104X NCB31CK-104X	C CAPACITOR C CAPACITOR	0.1uF 16V K 0.1uF 16V K	
C1127	NCB21HK-104X	C CAPACITOR C CAPACITOR	0.1uF 50V K 0.1uF 50V K		C3027	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C1129	NCB21HK-104X	C CAPACITOR	0.1uF 50V K		C3034	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1130	NCB21HK-104X	C CAPACITOR	0.1uF 50V K						
C1132	NCS31HJ-181X	C CAPACITOR	180pF 50V J		R1101	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
C1133 C1134	NCB31HK-471X NCB31HK-471X	C CAPACITOR C CAPACITOR	470pF 50V K 470pF 50V K		R1102 R1103	NRSA63J-113X NRSA63J-821X	MG RESISTOR MG RESISTOR	11kΩ 1/16W J 820Ω 1/16W J	
C1137	NCB21CK-105X	C CAPACITOR	1uF 16V K		R1104	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C1140	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R1105	NRSA63J-103X	MG RESISTOR	10k Ω 1/16W J	
C1141	NCB31HK-102X	C CAPACITOR	1000pF 50V K		R1106 R1107	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
C1142 C1143	NCB31HK-102X NCB31HK-102X	C CAPACITOR C CAPACITOR	1000pF 50V K 1000pF 50V K		R1107 R1108	NRSA63J-103X NRSA63J-331X	MG RESISTOR MG RESISTOR	10kΩ 1/16W J 330Ω 1/16W J	
C1144	NCB31HK-102X	C CAPACITOR	1000pF 50V K		R1110	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C1201	QTE1V06-106Z	E CAPACITOR	10uF 35V		R1111	NRSA63J-822X	MG RESISTOR	$8.2k\Omega$ 1/16W J	
C1202	NCB31HK-222X	C CAPACITOR	2200pF 50V K		R1112	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
C1203 C1204	NCB31HK-222X NCB31HK-471X	C CAPACITOR C CAPACITOR	2200pF 50V K 470pF 50V K		R1113 R1115	NRSA63J-562X NRSA63J-223X	MG RESISTOR MG RESISTOR	5.6kΩ 1/16W J 22kΩ 1/16W J	
C1205	QTE1H06-475Z	E CAPACITOR	4.7uF 50V		R1116	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C1206	QTE1V06-106Z	E CAPACITOR	10uF 35V		R1117	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
C1207	NCB31HK-122X	C CAPACITOR	1200pF 50V K		R1118	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C1208 C1209	NCB31HK-331X NCS31HJ-220X	C CAPACITOR C CAPACITOR	330pF 50V K 22pF 50V J		R1119 R1120	NRSA63J-222X NRSA63J-222X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W J 2.2kΩ 1/16W J	
C1210	NCS31HJ-220X	C CAPACITOR	22pF 50V J		R1122	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C1211	NCS31HJ-220X	C CAPACITOR	22pF 50V J		R1123	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C1213	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		R1124	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C1214 C1215	NCB31EK-104X NCB31EK-104X	C CAPACITOR C CAPACITOR	0.1uF 25V K 0.1uF 25V K		⚠ R1125 ⚠ R1126	NRS016J-470X NRS016J-470X	MG RESISTOR MG RESISTOR	47Ω 1W J 47Ω 1W J	
C1218	NCB21HK-104X	C CAPACITOR	0.1uF 50V K		R1127	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C1222	QTE1C06-336Z	E CAPACITOR	33uF 16V		R1129	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
C1223	QTE1V06-106Z	E CAPACITOR	10uF 35V		R1131	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
C1224 C1225	NCS31HJ-101X QFVF1HJ-684Z	C CAPACITOR MF CAPACITOR	100pF 50V J 0.68uF 50V J		R1132 R1133	NRSA63J-562X NRSA63J-223X	MG RESISTOR MG RESISTOR	5.6kΩ 1/16W J 22kΩ 1/16W J	
C1226	NCB21HK-104X	C CAPACITOR	0.1uF 50V K		R1134	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
C1227	NCB21HK-104X	C CAPACITOR	0.1uF 50V K		R1135	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C1228	NCB21HK-104X NCB21HK-104X	C CAPACITOR	0.1uF 50V K		R1136	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
C1229 C1230	NCB21HK-104X	C CAPACITOR C CAPACITOR	0.1uF 50V K 0.1uF 50V K		R1137 R1142	NRSA63J-101X NRSA02J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16W J 100Ω 1/10W J	
C1232	NCS31HJ-181X	C CAPACITOR	180pF 50V J		R1143	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
C1233	NCB31HK-471X	C CAPACITOR	470pF 50V K		R1201	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
C1234 C1237	NCB31HK-471X NCB21CK-105X	C CAPACITOR C CAPACITOR	470pF 50V K 1uF 16V K		R1202 R1203	NRSA63J-113X NRSA63J-821X	MG RESISTOR MG RESISTOR	11kΩ 1/16W J 820Ω 1/16W J	
C1237	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R1203	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C1241	NCB31HK-102X	C CAPACITOR	1000pF 50V K		R1205	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C1242	NCB31HK-102X	C CAPACITOR	1000pF 50V K		R1206	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
C1243 C1244	NCB31HK-102X NCB31HK-102X	C CAPACITOR C CAPACITOR	1000pF 50V K 1000pF 50V K		R1207 R1208	NRSA63J-103X NRSA63J-331X	MG RESISTOR MG RESISTOR	10kΩ 1/16W J 330Ω 1/16W J	
C1244	NCB3111K-102X NCB30JK-105X	C CAPACITOR	1uF 6.3V K		R1210	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C1302	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R1211	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
C1303	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R1212	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
C1304 C1305	NCB31CK-104X NCB31EK-104X	C CAPACITOR C CAPACITOR	0.1uF 16V K 0.1uF 25V K		R1213 R1215	NRSA63J-562X NRSA63J-223X	MG RESISTOR MG RESISTOR	5.6kΩ 1/16W J 22kΩ 1/16W J	
C1305	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R1216	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
▲ C1307	QTMN1EM-477Z	E CAPACITOR	470uF 25V M		R1217	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
C1308	QTE1E06-226Z	E CAPACITOR	22uF 25V		R1218	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C1309 C1310	NFV41HJ-333X NCB31CK-104X	MPPS CAPACITOR C CAPACITOR	0.033uF 50V J 0.1uF 16V K		R1219 R1220	NRSA63J-222X NRSA63J-222X	MG RESISTOR MG RESISTOR	2.2k Ω 1/16W J 2.2k Ω 1/16W J	
C3002	NDC31HJ-471X	C CAPACITOR C CAPACITOR	470pF 50V J		R1220	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C3003	NDC31HJ-471X	C CAPACITOR	470pF 50V J		R1223	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C3004	NDC31HJ-471X	C CAPACITOR	470pF 50V J		R1224	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C3005 C3006	NDC31HJ-471X NCB30JK-105X	C CAPACITOR C CAPACITOR	470pF 50V J 1uF 6.3V K		⚠ R1225 ॒ R1226	NRS016J-470X NRS016J-470X	MG RESISTOR MG RESISTOR	47Ω 1W J 47Ω 1W J	
C3007	NCB30JK-105X	C CAPACITOR C CAPACITOR	1uF 6.3V K		R1227	NRSA63J-103X	MG RESISTOR	4/\(\Omega\) 1/16W J	
C3008	NCB31HK-331X	C CAPACITOR	330pF 50V K		R1228	NRSA63J-472X	MG RESISTOR	4.7 k Ω 1/16W J	
C3009	NCB31HK-331X	C CAPACITOR	330pF 50V K		R1229	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
C3010 C3011	NCS31HJ-470X NCB31CK-104X	C CAPACITOR C CAPACITOR	47pF 50V J 0.1uF 16V K		R1231 R1232	NRSA63J-562X NRSA63J-562X	MG RESISTOR MG RESISTOR	5.6kΩ 1/16W J 5.6kΩ 1/16W J	
33011		3 3/11/1011011	5.101 10V IV		111202		MO I LOIDI OIL	0.0142 1/1044 0	

⚠ Symbol No.	Part No.	Part Name	Description	Local	⚠ Symbol No.	Part No.	Part Name	Description	Local
R1233	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		IC505	K4S641632H-UC75	IC		
R1234	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J			or K4S641632H-TC75	IC(DIGITAL)		
R1235	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J			or K4S641632F-TC60	IC		
R1236 R1237	NRSA63J-332X NRSA63J-101X	MG RESISTOR MG RESISTOR	3.3kΩ 1/16W J 100Ω 1/16W J		IC505 (IC509	or K4S641632F-TC75 SA16M90TFIR1	IC(DIGITAL) IC		
R1242	NRSA03J-101X NRSA02J-101X	MG RESISTOR	100Ω 1/10W J		IC701	AK4384VT-X	IC		
R1243	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J			or AK4384ET-X	IC		
R1301	NRSA63F-102X	MG RESISTOR	1k Ω 1/16W F						
R1302	NRSA63F-102X	MG RESISTOR	1kΩ 1/16W F		Q101	KTA1001/Y/-X	TRANSISTOR		
R1303 R1304	NRSA63J-103X NRSA63J-103X	MG RESISTOR MG RESISTOR	10kΩ 1/16W J 10kΩ 1/16W J		Q101 d Q102	or 2SB1424/R/-W 2SC4617/R/-X	TRANSISTOR TRANSISTOR		
R1308	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		Q102	KTA1001/Y/-X	TRANSISTOR		
R1309	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J			or 2SB1424/R/-W	TRANSISTOR		
R1310	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J		Q104	2SC4617/R/-X	TRANSISTOR		
R1311	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J		Q105	UN2119-X	TRANSISTOR		
R3003 R3004	NRSA63J-105X NRSA63J-562X	MG RESISTOR MG RESISTOR	1MΩ 1/16W J 5.6kΩ 1/16W J		C101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R3005	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J		C101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R3006	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		C103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R3007	NRSA63J-122X	MG RESISTOR	1.2k Ω 1/16W J		C104	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R3008	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		C105	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
R3009 ▲ R3010	NRSA63J-681X QRK126J-271X	MG RESISTOR UNF C RESISTOR	680Ω 1/16W J 270Ω 1/2W J		C106 C107	NBE20JM-226X	TA E CAPACITOR C CAPACITOR	22uF 6.3V M	
R3011	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		C107	NCB31CK-104X NEA70JM-476X	E CAPACITOR	0.1uF 16V K 47uF 6.3V M	
R3012	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		C111	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R3013	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		C204	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R3014	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		C205	NCB31HK-271X	C CAPACITOR	270pF 50V K	
R3015	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		C206	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
R3016 R3017	NRSA63J-102X NRSA63J-102X	MG RESISTOR MG RESISTOR	1kΩ 1/16W J 1kΩ 1/16W J		C208 C211	NCB31HK-561X NCB31HK-223X	C CAPACITOR C CAPACITOR	560pF 50V K 0.022uF 50V K	
R3018	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		C212	NCB311K-223X	C CAPACITOR	0.01uF 16V K	
R3019	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		C217	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
⚠ R3020	QRJ146J-221X	UNF C RESISTOR	220Ω 1/4W J	A,E,EE,	C251	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
				EN,EV	C253	NCB31HK-561X	C CAPACITOR	560pF 50V K	
⚠ R3022 R3023	QRK126J-271X NRSA63J-472X	UNF C RESISTOR MG RESISTOR	270Ω 1/2W J 4.7kΩ 1/16W J		C255 C256	NCB31CK-153X NCB31CK-104X	C CAPACITOR C CAPACITOR	0.015uF 16V K 0.1uF 16V K	
R3024	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		C257	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
R3025	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		C258	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
R3027	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		C259	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
R3029	NRSA63J-472X	MG RESISTOR	4.7k\Q 1/16W J		C260	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
R3031 R3032	NRSA63J-102X NRSA63J-102X	MG RESISTOR MG RESISTOR	1kΩ 1/16W J 1kΩ 1/16W J		C261 C262	NCB31EK-223X NCB31EK-223X	C CAPACITOR C CAPACITOR	0.022uF 25V K 0.022uF 25V K	
R3033	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		C264	NEA70JM-227X	E CAPACITOR	220uF 6.3V M	
R3034	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		C301	NEA70GM-227X	E CAPACITOR	220uF 4V M	
R3035	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		C302	NEA70GM-476X	E CAPACITOR	47uF 4V M	
R3036	NRSA63J-224X NRSA63J-103X	MG RESISTOR MG RESISTOR	220kΩ 1/16W J 10kΩ 1/16W J		C303	NEA70GM-476X	E CAPACITOR	47uF 4V M	
R3037	NKOA000-100X	IVIG RESISTOR	10K22 1/10VV J		C304 C305	NCB31CK-105X NCB31CK-104X	C CAPACITOR C CAPACITOR	1uF 16V K 0.1uF 16V K	
L1101	QQLZ037-220	COIL	22uH		C306	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
L1102	QQLZ037-220	COIL	22uH		C307	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
L1201	QQLZ037-220	COIL	22uH		C308	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
L1202	QQLZ037-220	COIL	22uH		C309	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
CN310	QGA2501F1-04	CONNECTOR	W-B (1-4)		C310 C311	NCB31CK-104X NCB31CK-104X	C CAPACITOR C CAPACITOR	0.1uF 16V K 0.1uF 16V K	
CN311	QGA2501F1-06	CONNECTOR	W-B (1-6)		C312	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
CN312	QGA2501F1-05	CONNECTOR	W-B (1-5)		C313	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
CN313	QGA2501F1-06	CONNECTOR	W-B (1-6)		C314	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
K3001	NQR0389-003X	FERRITE BEADS			C315	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
K3002 K3003	NQR0389-003X NQR0389-003X	FERRITE BEADS FERRITE BEADS			C316 C317	NCB31CK-104X NCB31CK-104X	C CAPACITOR C CAPACITOR	0.1uF 16V K 0.1uF 16V K	
K3004	NQR0389-003X	FERRITE BEADS			C317	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
K3005	NQR0389-003X	FERRITE BEADS			C319	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
X3001	QAX0734-001	C RESONATOR	400.00kHz		C320	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
X3002	QAX0735-001	C RESONATOR	420.00kHz		C321	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
					C322	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
					C323 C324	NCB31CK-104X NCB21CK-105X	C CAPACITOR C CAPACITOR	0.1uF 16V K 1uF 16V K	
DVD n	nodule boa	ırd			C325	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
•		-	Disal-Ni-	[0][4]	C326	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
			Block No.	[U][4]	C327	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
⚠ Symbol No.	Part No.	Part Name	Description	Local	C330	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
					C331 C332	NCB31CK-333X NCB31CK-104X	C CAPACITOR C CAPACITOR	0.033uF 16V K 0.1uF 16V K	
					C333	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC201	LA6502-X	IC			C334	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC301 IC302	MN2DS0003AA-H LM1117MP-ADJ-X	IC IC			C335	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC302 IC453	S-80827CNNB-W	IC IC			C337	NCB31CK-183X	C CAPACITOR	0.018uF 16V K	
		-			C338	NCB31HK-562X	C CAPACITOR	5600pF 50V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local	⚠ Symbol No.	Part No.	Part Name	Description	Local
C339	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R254	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
C340	NCB21CK-105X	C CAPACITOR	1uF 16V K		R255	NRSA63J-103X	MG RESISTOR	10k Ω 1/16W J	
C341 C347	NCB30JK-105X	C CAPACITOR C CAPACITOR	1uF 6.3V K 0.1uF 16V K		R257 R259	NRSA63J-0R0X NRSA63J-103X	MG RESISTOR MG RESISTOR	0Ω 1/16W J 10kΩ 1/16W J	
C347	NCB31CK-104X NCB31CK-104X	C CAPACITOR C CAPACITOR	0.1uF 16V K		R302	NRSA63J-103X NRSA63J-240X	MG RESISTOR	24Ω 1/16W J	
C349	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R303	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C350	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R306	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C356	NCB21CK-105X	C CAPACITOR	1uF 16V K		R307	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C359 C371	NCB31CK-104X NCB21CK-105X	C CAPACITOR C CAPACITOR	0.1uF 16V K 1uF 16V K		R308 R309	NRSA63J-223X NRSA63J-104X	MG RESISTOR MG RESISTOR	22k Ω 1/16W J 100k Ω 1/16W J	
C374	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R310	NRS125J-R47X	MG RESISTOR	0.47 <u>Q</u> 1/2W J	
C391	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R312	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C392	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R313	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C455	NCB31CK-103X	C CAPACITOR	0.01uF 16V K		R314	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C505 C506	NDC31HJ-330X NDC31HJ-330X	C CAPACITOR C CAPACITOR	33pF 50V J 33pF 50V J		R315 R316	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16W J 0Ω 1/16W J	
C507	NDC31HJ-330X	C CAPACITOR	33pF 50V J		R317	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C508	NDC31HJ-330X	C CAPACITOR	33pF 50V J		R318	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
C509	NDC31HJ-330X	C CAPACITOR	33pF 50V J		R319	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C510 C547	NDC31HJ-330X	C CAPACITOR C CAPACITOR	33pF 50V J		R320 R322	NRSA63J-103X	MG RESISTOR MG RESISTOR	10kΩ 1/16W J	
C547	NCB31CK-104X NCB31CK-104X	C CAPACITOR C CAPACITOR	0.1uF 16V K 0.1uF 16V K		R325	NRSA63J-473X NRSA63J-331X	MG RESISTOR	47kΩ 1/16W J 330Ω 1/16W J	
C552	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R326	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C553	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M		R333	NRSA63J-163X	MG RESISTOR	16kΩ 1/16W J	
C554	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R334	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
C555 C556	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R335 R336	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
C557	NCB31CK-104X NCF31AZ-105X	C CAPACITOR C CAPACITOR	0.1uF 16V K 1uF 10V Z		R337	NRSA63J-151X NRSA63J-151X	MG RESISTOR MG RESISTOR	150Ω 1/16W J 150Ω 1/16W J	
C558	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R338	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C559	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R339	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R340	NRSA63D-303X	MG RESISTOR	30kΩ 1/16W D	
C704	NEA70JM-227X	E CAPACITOR	220uF 6.3V M		R341	NRSA63D-362X	MG RESISTOR	3.6kΩ 1/16W D	
C706 C707	NEA71CM-106X NCB31CK-104X	E CAPACITOR C CAPACITOR	10uF 16V M 0.1uF 16V K		R342 R343	NRSA63D-222X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W D 0Ω 1/16W J	
C721	NCB31HK-102X	C CAPACITOR	1000pF 50V K		R344	NRSA63J-6R8X	MG RESISTOR	6.8Ω 1/16W J	
C902	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R345	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C903	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R351	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
C904	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R352	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
C906	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R357 R358	NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR	100Ω 1/16W J 100Ω 1/16W J	
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R361	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R362	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R103	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J		R363	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R104	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J		R372	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R105 R106	NRS125J-180X NRSA63J-2R2X	MG RESISTOR MG RESISTOR	18Ω 1/2W J 2.2Ω 1/16W J		R373 R378	NRSA63J-102X NRSA63J-102X	MG RESISTOR MG RESISTOR	1kΩ 1/16W J 1kΩ 1/16W J	
R107	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R379	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R108	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		R384	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R109	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R385	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R110	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R390	NRSA63J-472X NAD0025-103X	MG RESISTOR N THERMISTOR	4.7kΩ 1/16W J 10kΩ	
R111 R112	NRSA63J-243X NRSA63J-303X	MG RESISTOR MG RESISTOR	24kΩ 1/16W J 30kΩ 1/16W J		R391 R392	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R113	NRS125J-270X	MG RESISTOR	27Ω 1/2W J		R393	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R114	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J		R394	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R115	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R395	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R116 R117	NRSA63J-471X NRSA63J-331X	MG RESISTOR MG RESISTOR	470Ω 1/16W J 330Ω 1/16W J		R457 R458	NRSA63J-0R0X NRSA63J-102X	MG RESISTOR MG RESISTOR	0Ω 1/16W J 1kΩ 1/16W J	
R118	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R501	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R119	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R502	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R120	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R503	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R122	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R551	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R123 R125	NRSA63J-0R0X NRS125J-1R0X	MG RESISTOR MG RESISTOR	0Ω 1/16W J 1Ω 1/2W J		R553 R554	NQR0129-002X NQR0129-002X	FERRITE BEADS FERRITE BEADS		
R126	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J		R555	NQR0129-002X	FERRITE BEADS		
R128	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R556	NQR0129-002X	FERRITE BEADS		
R204	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R557	NQR0129-002X	FERRITE BEADS		
R205	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R558	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R206 R207	NRSA63J-303X NRSA63J-473X	MG RESISTOR MG RESISTOR	30kΩ 1/16W J 47kΩ 1/16W J		R701 R702	NRSA63J-100X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	10Ω 1/16W J 0Ω 1/16W J	
R207	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R710	NQR0129-002X	FERRITE BEADS	022 1/ 10 VV U	
R213	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R711	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R712	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R215	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R219 R220	NRSA63J-183X NRSA63J-243X	MG RESISTOR MG RESISTOR	18kΩ 1/16W J 24kΩ 1/16W J		R716 R718	NRSA63J-0R0X NRSA63J-473X	MG RESISTOR MG RESISTOR	0Ω 1/16W J 47kΩ 1/16W J	
R220 R221	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		R710 R719	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R251	NRS125J-R47X	MG RESISTOR	0.47Ω 1/2W J		R909	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R252	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J		R911	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
L501	NQL044K-100X	COIL	$0.26\Omega10 \text{uH K}$	
CN101	QGF0523F1-24W	CONNECTOR	FFC/FPC (1-24)	
CN201	QGF1016F2-08W	CONNECTOR	FFC/FPC (1-8)	
CN501	QGF1016F2-19W	CONNECTOR	FFC/FPC (1-19)	
CN503	QGF1016F2-17W	CONNECTOR	FFC/FPC (1-17)	
K101	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K102	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K301	NQR0354-001X	FERRITE BEADS		
K302	NRSA63J-101X	MG RESISTOR	100 <u>Ω</u> 1/16W J	
K303	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
K304	NQR0502-001X	FERRITE BEADS		
K501	NQR0129-002X	FERRITE BEADS		
K551	NQR0129-002X	FERRITE BEADS		
K552	NQR0129-002X	FERRITE BEADS		
K553	NQR0129-002X	FERRITE BEADS		
K554	NQR0129-002X	FERRITE BEADS		
K555	NQR0022-005X	FERRITE BEADS		
K556	NQR0129-002X	FERRITE BEADS		
X351	NAX0550-001X	CRYSTAL	27.000MHz	
DVD		tala la a sud		

DVD loading switch board

Block No. [0][5]

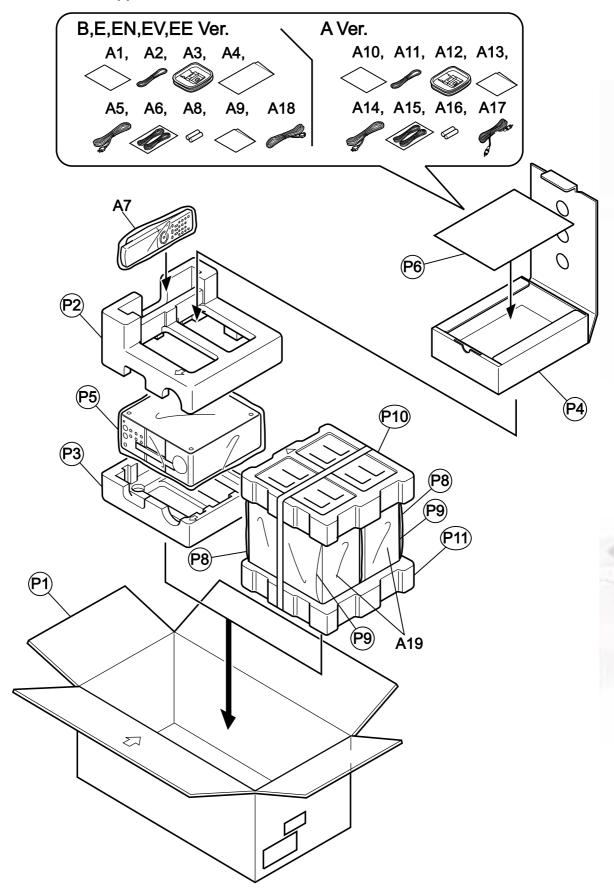
⚠ Symbol No.	Part No.	Part Name	Description	Local	
CN1 S1	QGF1016F3-05 QSW1007-001	CONNECTOR DETECT SWITCH	FFC/FPC (1-5)		

<MEMO>



Packing materials and accessories parts list

No additional / supplemental order of WARRANTY CARDs are available



Packing and Accessories

Block No. [M][3][M][M]

Λ	Symbol No.	Part No.	Part Name	Description	Local
	A 1	LVT1284-004A	INST BOOK	ENG	В
	A 1	LVT1284-005A	INST BOOK	GER,FRE,DUT	E
	A 1	LVT1284-016A	INST BOOK	RUS	EE
	A 1	LVT1284-006A	INST BOOK	GER,FRE,SPA,ITA,SWE,FIN,DAN	EN
	A 1	LVT1284-007A	INST BOOK	POL,HUN,CZE	EV
	A 2	QAL0457-001	ANT.WIRE		B,E,EE,EN,EV
	A 3	QAL0476-001	AM LOOP ANT		B,E,EE,EN,EV
	A 4		WARRANTY CARD	BT-54023-1	B,E,EE,EN,EV
Δ	A 5	QMPL150-183-JC	POWER CORD(EU)	1.83m BLACK	E,EE,EN,EV
	A 6	QAM0530-001	SPEAKER CORD		B,E,EE,EN,EV
	A 7	RM-SEEXP1A	REMOCON UNIT		Α
	A 7	RM-SEEXA1R-S	REMOCON UNIT		B,E,EE,EN,EV
	A 8		BATTERY	(x2)	B,E,EE,EN,EV
	A 9	VNA3000-204	REGISTER CARD		В
	A 10	LVT1284-012A	INST BOOK		A
	A 11	QAL0457-001	ANT.WIRE		A
	A 12	QAL0476-001	AM LOOP ANT	DT 50040 4	A
Δ.	A 13		WARRANTY CARD	BT-56012-1	A
Λ	A 14	QMPH010-183-JD	POWER CORD(EU)	1.83m BLACK	A
	A 15	QAM0530-001	SPEAKER CORD	(0)	A
	A 16	0.4440040.004	BATTERY	(x2)	A
Δ.	A 17	QAM0216-001	SIGNAL CORD	4.00 PL 4.01/	A
Δ	A 18	QMPP060-183-JD	POWER CORD(EU)	1.83m BLACK	В
	A 19	SPEXA1K-SPBOX	SPEAKER BOX	(x2)	
	P 1	LV34466-007A	CARTON		A
	P 1	LV34466-014A	CARTON		EE
	P 1	LV34466-003A	CARTON		B,E,EN,EV
	P 2	LV10846-001A	CUSHION TOP		
	P 3	LV10847-001A	CUSHION BOTTOM		
	P 4	LV21595-001A	CARTON SPACER	2Ferry v FOem	
	P 5 P 6	QPC03505015P	POLY BAG	35cm x 50cm	
	P 8	QPA02503505P 8500051931	POLY BAG POLY BAG	25cm x 35cm	
	P 9	8500051931 8500048041	MIRROR MAT	(x2)	
	P 10	8000050401	CUSHION(TOP)	(x2)	
	P 10	8000050401			
	FII	000000411	CUSHION(BOT)		