DVD System

Operating Instructions

Model No. **SC-DT300**

SC-DT100

The illustrations show SC-DT300.

DT300

DVD AUDIO/VIDEO ™

COMPACT disc DIGITAL VIDEO

DT100

DVD VIDEO ™

COMPACT disc DIGITAL VIDEO

DT300 : indicates features applicable to SC-DT300 only.
DT100 : SC-DT100 only.

EB E GN GCS EE GCT

Panasonic

Region number supported by this player

Region numbers are allocated to DVD players and DVD-Video according to where they are sold.

For the United Kingdom and Continental Europe

● The region number of this player is **"2"**.
● The player will play DVD-Video marked with labels containing **"2"** or **"ALL"**.

Example:

(2) (ALL) (2 3 5)

For Asia

● The region number of this player is **"3"**.
● The player will play DVD-Video marked with labels containing **"3"** or **"ALL"**.

Example:

(3) (ALL) (2 3 6)

For Australia and N.Z.

● The region number of this player is **"4"**.
● The player will play DVD-Video marked with labels containing **"4"** or **"ALL"**.

Example:

(4) (ALL) (2 4 6)

For Russia

● The region number of this player is **"5"**.
● The player will play DVD-Video marked with labels containing **"5"** or **"ALL"**.

Example:

(5) (ALL) (2 5 6)

Note:
"EB" on the packaging indicates the United Kingdom.

Before connecting, operating or adjusting this product, please read these instructions completely.
Please keep this manual for future reference.

RQT6387-B

Dear customer

Thank you for purchasing this product.
For optimum performance and safety, please read these instructions carefully.

These operating instructions are applicable to models SC-DT300 and SC-DT100.
Unless otherwise indicated, illustrations in these operating instructions are of SC-DT300.

System	SC-DT300	SC-DT100
DVD/CD player	SL-DT300	SL-DT100
AV control receiver	SA-DT300	SA-DT100
Front speakers	SB-DT300	SB-DT100
Center speaker	SB-AFC301	SB-AFC301
Surround speakers	SB-AFC301	SB-AFC301
Subwoofer	SB-W300	SB-W300

CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:
TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, 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.

CAUTION!
●DO NOT INSTALL, OR PLACE THIS UNIT, IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.
●DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.
●DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.
●DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.

This product may receive radio interference caused by mobile telephones during use. If such interference is apparent, please increase separation between the product and the mobile telephone.

For Southeast Asia

THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES.

For others

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

CLASS 1
LASER PRODUCT
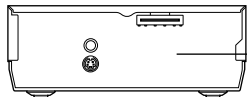
(Back of product)

LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

DANGER	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)
CAUTION	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (IEC60825-1)
ATTENTION	RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL	SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	SYNLIG OG USYNLIG LASERSTRÅLING NÄR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
注意	打开时有可见及不可见激光辐射。避免激光束照射。
注意	ここを開くと可視及び不可視のレーザー光が出ます。ビームを直接見たり、触れたりしないでください。 RQLS0233

(Inside of product)
(Tuotteen sisällä)
(Produktets innside)

AV control receiver (SA-DT300/SA-DT100)

Marking sign is located on bottom of the unit.

SUOMI

VAROITUS!
LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VAROITUS:
TULIPALO-, SÄHKÖISKUVAARAN TAI TUOTETTA KOHTAAVAN MUUN VAHINGON VÄHENTÄMISEKSI EI LAITETTA SAA ALTISTAA SATEELLE, KOSTEUDELLE, VESIPISAROILLE TAI ROISKEELLE, EIKÄ NESTETTÄ SISÄLTÄVIÄ ESINEITÄ, KUTEN ESIMERKIKSI MALJAKOITA, SAA ASETTAA LAITTEEN PÄÄLLE.

VAROITUS!
●ÄLÄ ASENNA TAI LAITA TÄTÄ LAITETTA KABINETTITYYPPISEEN KIRJAKAAPPIIN TAI MUUHUN SULJETTUUN TILAAN, JOTTA TUULETUS ONNISTUISI. VARMISTA, ETTÄ VERHO TAI MIKÄÄN MUU MATERIAALI EI HUONONNA TUULETUSTA, JOTTA VÄLTETTÄISIIN YLIKUUMENEMISESTA JOHTUVA SÄHKÖISKU- TAI TULIPALOVAARA.
●ÄLÄ PEITÄ LAITTEEN TUULETUSAUKKOJA SANOMALEHDELLÄ, PÖYTÄLIINALLA, VERHOLLA TAI MUULLA VASTAAVALLA ESINEELLÄ.
●ÄLÄ ASETA PALAVAA KYNTTILÄÄ TAI MUUTA AVOTULEN LÄHDETTÄ LAITTEEN PÄÄLLE.
●HÄVITÄ PARISTOT LUONTOA VAHINGOITTAMATTOMALLA TAVALLA.

TÄMÄ LAITE ON TARKOITETTU KÄYTETTÄVÄKSI LEUDOSSA ILMASTOSSA.

NORSK

ADVARSEL!
DETTE PRODUKTET ANVENDER EN LASER.
BETJENING AV KONTROLLER, JUSTERINGER ELLER ANDRE INNGREP ENN DE SOM ER BESKREVENT I DENNE BRUKSANVISNING, KAN FØRE TIL FARLIG BESTRÅLING.
DEKSLER MÅ IKKE ÅPNES, OG FORSØK ALDRI Å REPARERE APPARATET PÅ EGENHÅND. ALT SERVICE OG REPARASJONSARBEID MÅ UTFØRES AV KVALIFISERT PERSONELL.

ADVARSEL:
FOR Å REDUSERE FAREN FOR BRANN, ELEKTRISK STØT ELLER SKADER PÅ PRODUKTET, MÅ DETTE APPARATET IKKE UTSETTES FOR REGN, FUKTIGHET, VANNDRÅPER ELLER VANNSPRUT. DET MÅ HELLER IKKE PLASSERES GJENSTANDER FYLT MED VANN, SLIK SOM BLOMSTERVASER, OPPÅ APPARATET.

ADVARSEL!
●APPARATET MÅ IKKE PLASSERES I EN BOKHYLLE, ET INNEBYGGET KABINETT ELLER ET ANNET LUKKET STED HVOR VENTILASJONSFORHOLDENE ER UTILSTREKKELIGE. SØRG FOR AT GARDINER ELLER LIGNENDE IKKE FORVERRER VENTILASJONSFORHOLDENE, SÅ RISIKO FOR ELEKTRISK SJOKK ELLER BRANN FORÅRSAKET AV OVERHETING UNNGÅS.
●APPARATETS VENTILASJONSÅPNINGER MÅ IKKE DEKKES TIL MED AVISER, BORDDUKER , GARDINER OG LIGNENDE.
●PLASSER IKKE ÅPEN ILD, SLIK SOM LEVENDE LYS, OPPÅ APPARATET.
●BRUKTE BATTERIER MÅ KASSERES UTEN FARE FOR MILJØET.

DETTE APPARATET ER BEREGNET TIL BRUK UNDER MODERATE KLIMAFORHOLD.

Accessories

Please check and identify the supplied accessories. Use numbers indicated in parentheses when asking for replacement parts.
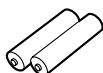
☐ **1 Remote control**
DT300 (N2QAJB000049)
DT100 (For The United Kingdom and Continental Europe: N2QAJB000048)
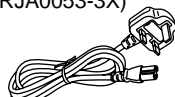(For others: N2QAJB000058)

☐ **2 Batteries**
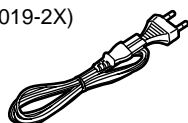for remote control

☐ **1 AC mains lead**

For the United Kingdom	For Australia and N.Z.
(RJA0053-3X)	(RJA0035-2X)

For others
(RJA0019-2X)

☐ **1 AM loop antenna**
(REK0063)

☐ **1 FM indoor antenna**
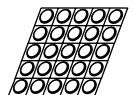(RSA0007)

☐ **1 Video cable**
(RJL1P019B15)

☐ **2 Speaker cables** DT300
(REX1129)

☐ **1 Sheet of speaker feet** (small)
(25 feet)

☐ **1 Sheet of speaker feet** (large)
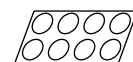(10 feet)

☐ **4 Spikes** DT300
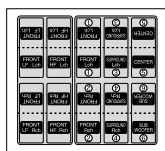(RGG0210-S)

☐ **1 Sheet of speaker pads** DT300
(8 pads)

☐ **1 Cleaning cloth**
for main unit
(RFE0088-1)

☐ **1 Sheet of speaker-cord stickers**
(RQCA0950)

For the United Kingdom only
☐ **1 Antenna plug adaptor**
(SJP9009)

For the United Kingdom, Continental Europe and Russia
☐ **1 RCAJ adaptor**
(VFA0151-2)

Note
The included AC mains lead is for use with this unit only. Do not use it with other equipment.

Table of contents

Getting started

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RQT6387

Getting started

(For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⊛ or the BSI mark ▽ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

> **CAUTION!**
> IF THE FITTED MOULDED PLUG IS UNSUIT-ABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE RE-MOVED AND THE PLUG CUT OFF AND DIS-POSED OF SAFELY.
> THERE IS A DANGER OF SEVERE ELECTRI-CAL SHOCK IF THE CUT OFF PLUG IS IN-SERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.
If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead 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 or Blue.
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A
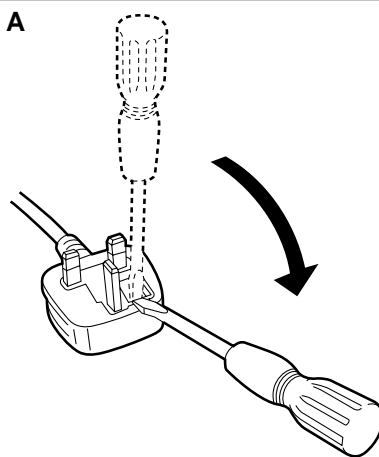
Figure B   Fuse cover
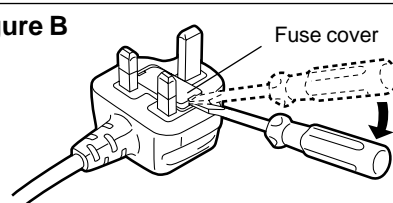
2. Replace the fuse and close or attach the fuse cover.

Figure A   Fuse (5 ampere)

Figure B   Fuse (5 ampere)
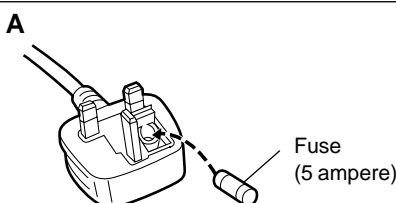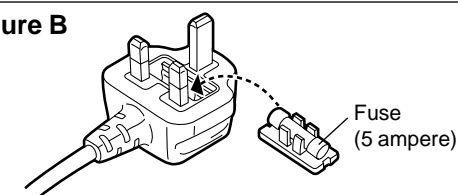
Disc information

■ Discs that can be played

Disc type	Logo	Indication used in instructions
DT300 DVD-Audio	**DVD** AUDIO™	**DVD-A**
DVD-Video	**DVD** VIDEO™ / **DVD** VIDEO™	**DVD-V**
DVD-R	**DVD** R R4.7	
Audio CD	COMPACT **disc** DIGITAL AUDIO	**CD** (Including CD-R/RW and discs recorded with MP3)
Video CD	COMPACT **disc** DIGITAL VIDEO	**VCD**

■ Discs that cannot be played

DVD-Audio(**DT100**), DVD-ROM, DVD-RAM, CD-ROM, CDV, CD-G, +RW, DVD-RW, CVD, SVCD, SACD, Divx Video Discs and Photo CD.

■ Playing DVDs and Video CDs

The producer of these discs can control how they are played so you may not always be able to control play as described in these operating instructions. Read the disc's instructions carefully.

■ Video systems

This unit can play both the PAL and NTSC video systems. To view PAL or NTSC, however, your television must match the system used on the disc.
PAL discs cannot be correctly viewed on an NTSC television. NTSC can be correctly viewed on a PAL television by converting the video signal to PAL 60 (➡ page 28, Video—NTSC Disc Output).

■ CD-R and CD-RW discs

This unit can play CD-DA (digital audio) and video CD format audio CD-R and CD-RW that have been finalized (a process that enables CD-R/CD-RW players to play audio CD-R and CD-RW) upon completion of recording.
It may not be able to play some CD-R or CD-RW due to the condition of the recording.

■ DVD-R discs

Panasonic DVD-R recorded and finalized on a Panasonic DVD video recorder are played as DVD-Video on this unit.
It may not be possible to play these discs in all cases due to the type of disc or condition of the recording.

Disc handling

Do not use irregularly shaped discs, such as heart-shaped. (These can damage the unit.)

■ How to hold a disc
Do not touch the recorded surface.
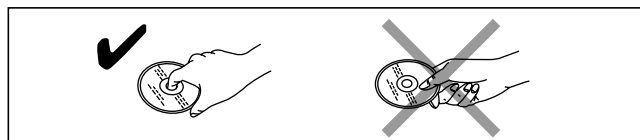
■ If the surface is dirty
Wipe it with a damp cloth and then wipe dry.
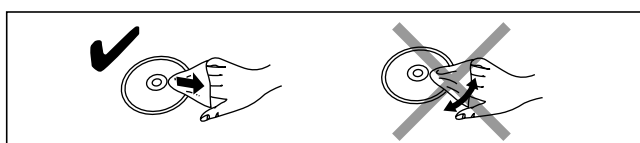
■ If the disc is brought from a cold to a warm environment, moisture may form on the disc
Wipe with a soft, dry, lint-free cloth before using the disc.

■ Handling precautions
● Do not write on the label side with a ball-point pen or other writing instrument.
● Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
● Do not attach labels or stickers to discs. (Do not use discs with exposed adhesive from tape or left over peeled-off stickers.)
● Do not use scratch-proof protectors or covers.
● Do not use discs printed with label printers available on the market.

■ Do not place or store discs in the following places
● Locations exposed to direct sunlight
● Humid or dusty locations
● Locations directly exposed to a heat vent or heating appliance

Simple setup

STEP **1**   Locating `DT300` `DT100`

Use only supplied speakers

Using other speakers can damage the unit and sound quality will be negatively affected.

Set the speakers up on an even surface to prevent them from falling. Take proper precautions to prevent the speakers from falling if you cannot set them up on an even surface.

Place the front, center, and surround speakers at approximately the same distance from the seating position. The angles in the diagram are approximate.

Front speakers (① Left ② Right)

`DT300` **SB-DT300**   `DT100` **SB-DT100**

≥Place it at least 15 cm away from wall surfaces to avoid distortion and unwanted acoustical effects.

≥The left and right speakers are the same.

Center speaker (⑤) SB-AFC301

≥You can also put this speaker directly under the television.

≥Do not place the center speaker on the main unit as sound quality will be affected.

≥Vibration caused by the center speaker can disrupt the picture if it is placed directly on the television. Put the center speaker on a rack or shelf.

Main unit

Keep your speakers at least 10 mm away from the system for proper ventilation.

Subwoofer (⑥) SB-W300

Place near the television, on the floor or a sturdy shelf so that it won't cause vibration.

Stacking

AV control receiver

DVD/CD Player

Surround speakers (③ Left ④ Right) SB-AFC301

Place either side of the seating position, or slightly to the rear, about 1 meter higher than ear level.

≥The left and right speakers are the same.

≥After you have completed setup and connection, wind the excess cord and keep together with string.

≥The front speaker nets can be removed.

Notes on speaker use

≥You can damage your speakers and shorten their useful life if you play sound at high levels over extended periods.

≥Reduce the volume in the following cases to avoid damage.
–When playing distorted sound.
–When the speakers are receiving howling from a microphone or record player, noise from FM broadcasts, or continuous signals from an oscillator, test disc, or electronic instrument.
–When adjusting the sound quality.
–When turning the unit on or off.

Caution

≥**Use the speakers only with the recommended system. Failure to do so may lead to damage to the amplifier and/or the speakers, and may result in the risk of fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.**

≥**Do not attempt to attach these speakers to walls using methods other than those described in this manual.**

If irregular coloring occurs on your television

These speakers are designed to be used close to a television, but the picture may be affected with some televisions and setup combinations.

If this occurs, turn the television off for about 30 minutes.

The television's demagnetizing function should correct the problem. If it persists, move the speakers further away from the television.

STEP 2 **Connecting the speakers** DT100

❶ **Attach the stickers to the speaker cords.**
Attach the speaker-cord stickers to make connection easier.

FRONT L, R
e.g.) FRONT L

SURROUND, CENTER
e.g.) CENTER

FRONT
L ch
①

FRONT
L ch
①

FRONT
L ch
①

CENTER
⑤

speaker-cord stickers

		①	③	⑤
FRONT LF Lch	FRONT HF Lch	FRONT Lch ①	SURROUND Lch ③	CENTER ⑤
②			④	⑥
FRONT LF Rch	FRONT HF Rch	FRONT Rch ②	SURROUND Rch ④	SUB WOOFER ⑥

SUBWOOFER

SUB
WOOFER
⑥

❷ **Connecting**
Match the labels on the speaker stickers with the labels on the terminals.

AV control receiver

Insert with the hook down, until it clicks into place.

SUB WOOFER CENTER SURROUND FRONT HF/LF

⊕
⊖

⑥ ⑤ ④ ③ ② ①
R L R L

Hook

SUBWOOFER

CENTER

SURROUND(R)

SURROUND(L)

FRONT(R)

FRONT(L)
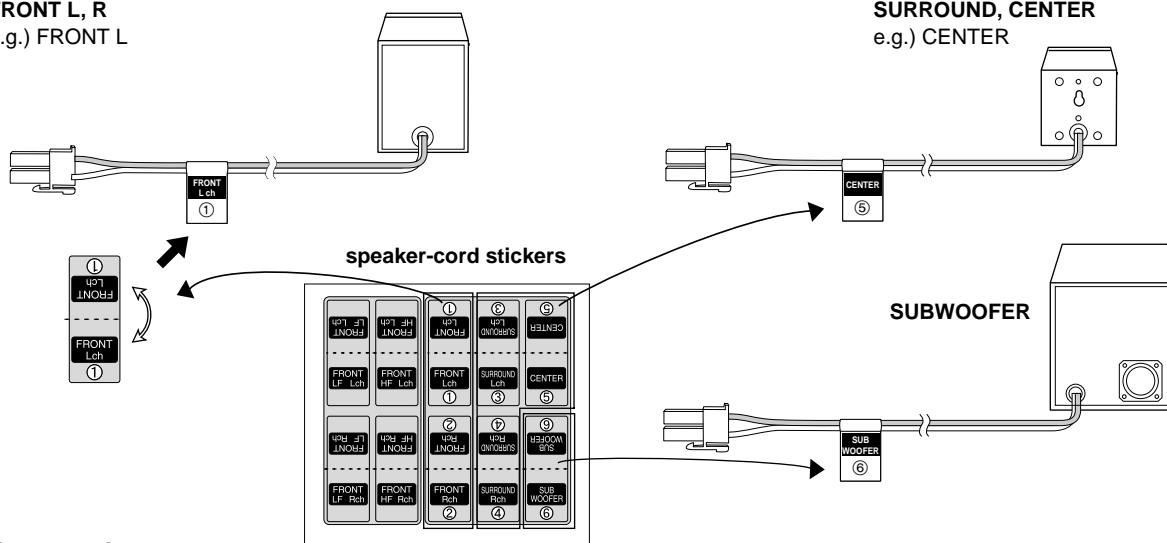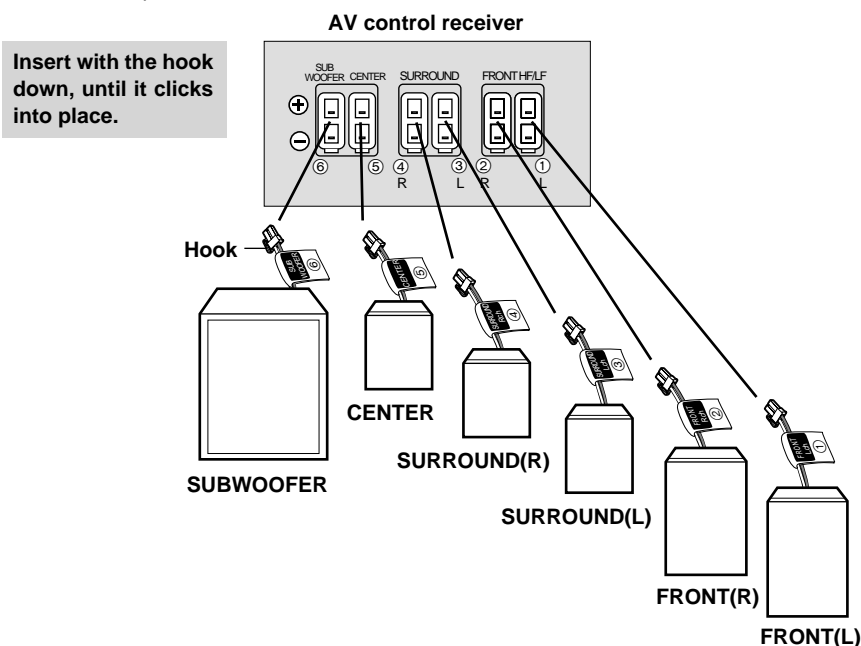
To disconnect
Press on the hook and pull.

❸ **Attach the speaker feet.**
● Attach the speaker feet to the bases of the speakers to help stop them from moving due to vibration.
● You can set the speakers up at an angle by attaching two large speaker feet to the front of each speaker.

Base

To face up

Sheet of
speaker feet
(small)

Sheet of
speaker feet
(large)

Sheet of
speaker feet
(small)
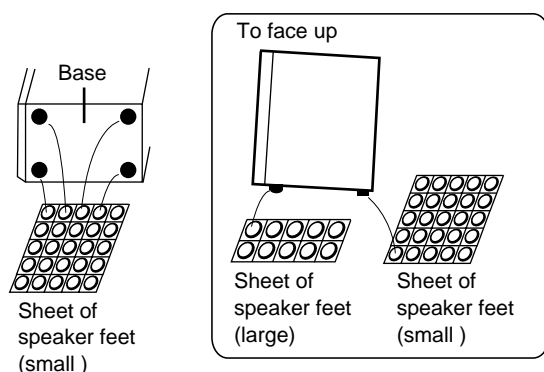
To attach center and surround speakers to a wall or speaker stands (➡ page 9)

RQT6387

Simple setup

STEP *2*   Connecting the speakers DT300

These front speakers are bi-wired for high quality sound reproduction.

❶ Attach the stickers to the speaker cords.

Attach the speaker-cord stickers to make connection easier.

FRONT L, R

e.g.) FRONT L
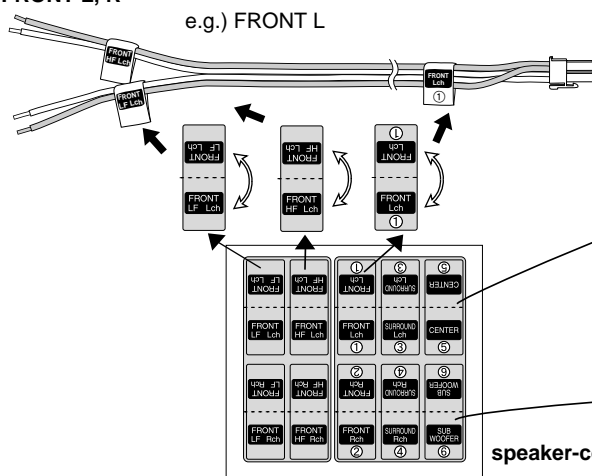
SURROUND, CENTER
e.g.) CENTER

SUBWOOFER

speaker-cord stickers

❷ Connecting

Match the labels on the speaker stickers with the labels on the terminals.

FRONT

Insert with the hook down, until it clicks into place.

AV control receiver

SUB WOOFER CENTER SURROUND FRONT HF/LF

Hook

Right

To prevent damage to circuitry, never short-circuit positive (+) and negative (−) speaker wires.

Push the lever in the direction indicated by the allow, insert the wire, then release the lever.

Copper: +
Silver: −

HF: High Frequency
LF: Low Frequency

Copper

Silver

Copper

Silver

Left

SURROUND, CENTER, SUBWOOFER

AV control receiver

SUB WOOFER CENTER SURROUND FRONT HF/LF

Hook

SUBWOOFER

CENTER

SURROUND(R)

SURROUND(L)
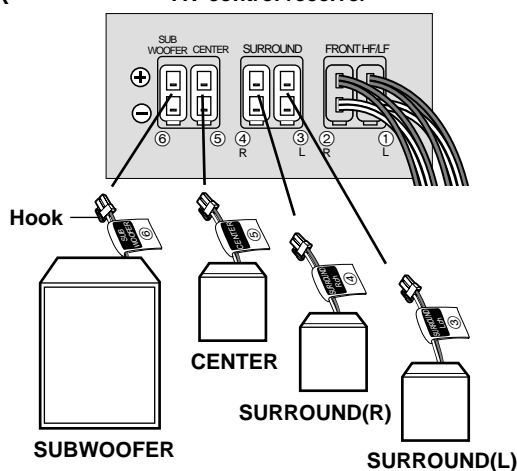
To disconnect
Press on the hook and pull.

❸ **Attach the spikes and speaker feet to the bases of the front speakers.**

These help stop the speakers from moving due to vibration and also change their angle.

Speaker net

Spikes

Sheet of speaker feet (small)
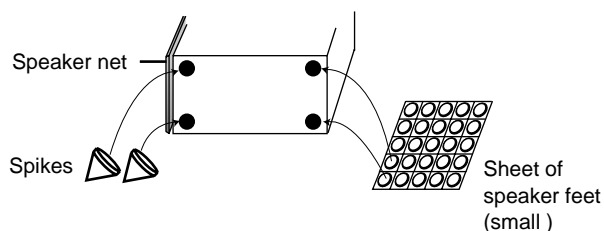
≥Remove the seals from the adhesive surfaces of the spikes and speaker feet.
≥Be sure to attach the spikes to the front of the speaker's base.

To protect surfaces from scratching
1. Adhere two pads together.   2. Place the pads under the spikes.

Adhesive surface

Pads
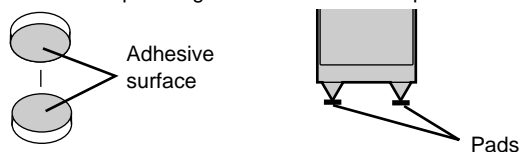
≥If you put the speakers in a position where it is not appropriate to attach the spikes, attach speaker feet in ther place.
≥Use speaker feet for the remaining speakers.
≥You can set the surround and center speakers up at an angle by attaching two large speaker feet to the front.

To face up

Base

Sheet of speaker feet (small)

Sheet of speaker feet (large)

Sheet of speaker feet (small)
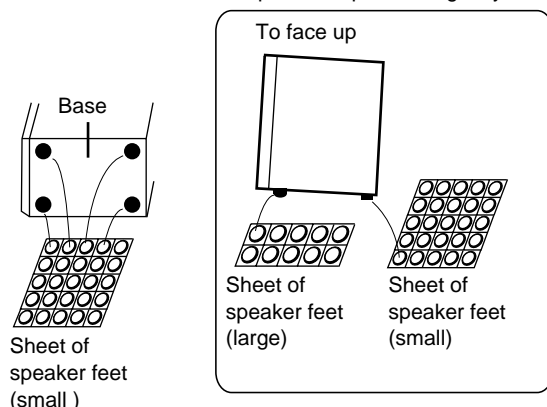
DT300 DT100

Attaching to a wall

Center and surround speakers can be attached to a wall.
Set the speaker onto screw and slide through bracket to lock into position.

Speaker feet

Screw (not included)

Speaker feet

30–35 mm

7.5–9.5 mm

7–9 mm
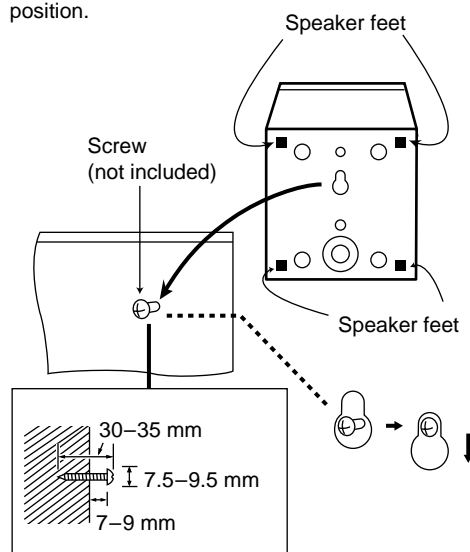
Note
The wall or pillar on which the speakers are to be attached should be capable of supporting 10 kg per screw.

Attaching to speaker stands

Ensure the following conditions are met when you purchase your speaker stands.
≥Observe the diameter and length of the screws and the distance between screws as shown in the diagram.
≥The stands must be able to support over 10 kg .
≥The stands must be stable even if the speakers are in a high position.

5 mm, pitch 0.8 mm   60 mm

Attach the stands with these holes.

Plate thickness plus 7 to 10 mm

Speaker stand (not included)
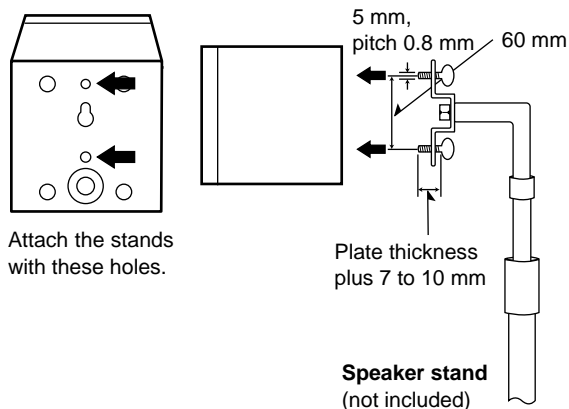
Simple setup

STEP3 **Television and flat cable** `DT300` `DT100`

Connect directly to your television.
Do not connect the unit through a video cassette recorder, because the picture may not be played correctly due to the copy guard.

Video cable (included)

For the United Kingdom, Continental Eupope and Russia
Use the RCAJ adaptor (included) if your television has a 21-pin SCART terminal. You do not have to connect anything to the AUDIO terminals.

VIDEO IN

VIDEO OUT

Video cable (included)

Video terminal

To your television

RCAJ adaptor

Audio terminals

VIDEO OUT
S-VIDEO OUT

To connect cable | **To unplug cable**

S-VIDEO OUT terminal
The S-video terminal achieves a more vivid picture than the VIDEO OUT terminal by separating the chrominance (C) and luminance(Y) signals. (Actual results depend on the television.)

STEP4 **Antennas and AC mains lead** `DT300` `DT100`

FM indoor antenna
Fix the other end of the antenna where reception is best.

Adhesive tape

AM loop antenna
Stand the antenna up on its base.
Keep loose antenna cord away from other wires and cords.

❸ ❷
❶

AC IN

Noise filter

To household mains socket

AC mains lead (included)
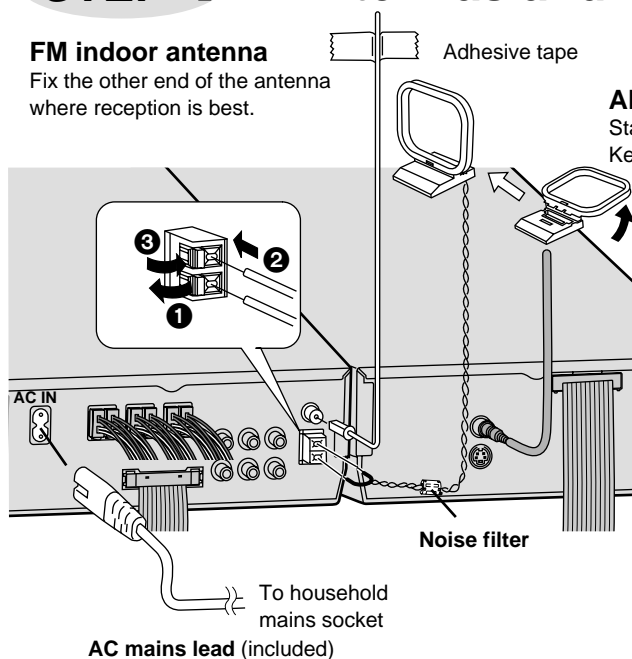
● Leave the noise filter attached.

For the United Kingdom only
BE SURE TO READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 4 BEFORE CONNECTION.

Insertion of connector
Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing. However there is no problem using the unit.

Appliance inlet
Connector

Approx. 6 mm
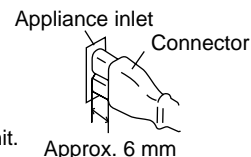
Conserving power
The unit consumes power (approx. 0.7 W) even when it is turned off with [⏻]. To save power when the unit is not to be used for a long time, unplug it from the household mains socket. Remember to reset the radio stations and any other memory items before using the unit again.

For your reference
Information you enter into the unit's memory remains intact for up to a week after the AC mains lead is disconnected.

STEP 5 The remote control DT300 DT100

■ Batteries
Do not;
● mix old and new batteries.
● use different types at the same time.
● heat or expose to flame.
● take apart or short circuit.
● attempt to recharge alkaline or manganese batteries.
● use batteries if the covering has been peeled off.
Mishandling of batteries can cause electrolyte leakage which can damage items the fluid contacts and may cause a fire.

Remove if the remote control is not going to be used for a long period of time. Store in a cool, dark place.

R6, AA, UM-3
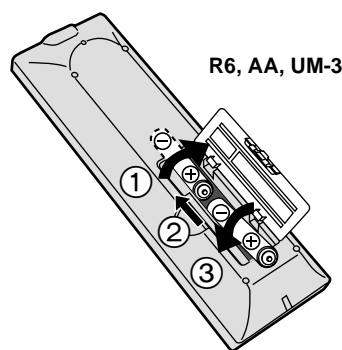
● Insert so the poles (+ and −) match those in the remote control.
● Do not use rechargeable type batteries.

■ Use
Aim at the sensor, avoiding obstacles, at a maximum range of 7 m directly in front of the unit.

STEP 6 Selecting TV screen type DT300 DT100
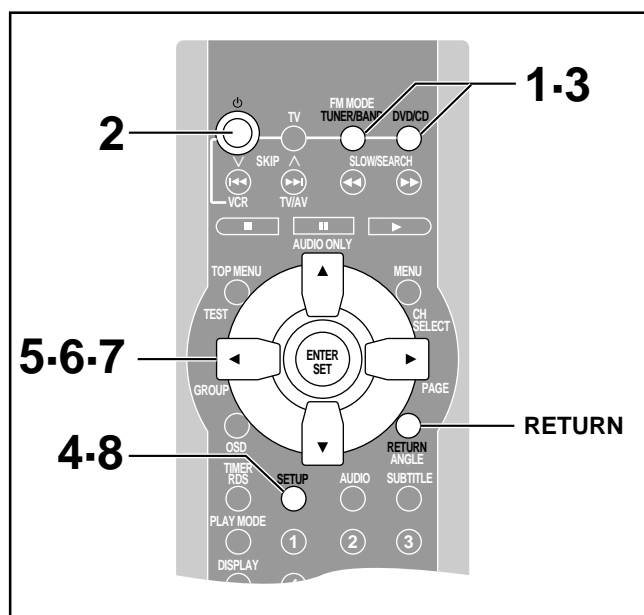
Change the setting to suit your television.

The menu language is set to English, but you can change it (➡ page 28, Display—Menu Language). English is used in the examples.

Preparation
Turn on the television and select the appropriate video input on the television to suit the connections for the unit.

1 Press either [DVD/CD] or [TUNER/BAND] to set the remote control to operate this unit.

2 Press [⏻] to turn on the unit.

3 Press [DVD/CD] to select "DVD".

4 Press [SETUP] to show the menus.

Panasonic SETUP	Disc	
	Audio	English
	Subtitle	Automatic
	Menus	English
	Ratings	Level 8
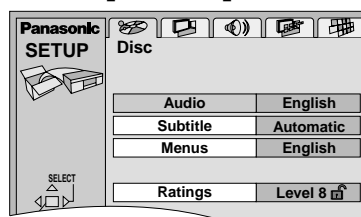
5 Press [◀, ▶] to select the "Video" tab.

6 Press [▲, ▼] to select "TV Aspect" and press [ENTER].

7 Press [▲, ▼] to select the item and press [ENTER].
● **4:3 Pan&Scan** (Factory preset)
Select if you have a regular television and to view 16:9 software in the pan and scan style.

16:9 software prohibited from being shown in the pan and scan style will appear in the letterbox style despite the setting here.

● **4:3 Letterbox**
Select if you have a regular television and to view 16:9 software in the letterbox style.

● **16:9**
Select if you have a widescreen (16:9) television.
Use the television's screen modes to change the way the picture is shown.

8 Press [SETUP] to end the settings.

To return to the previous screen
Press [RETURN].

Control reference guide
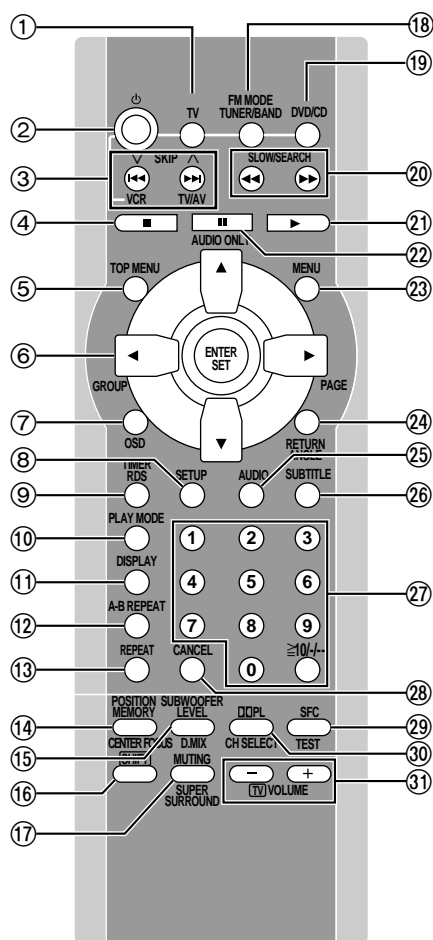
Remote control

① **TV button [TV]** **30**
② **Standby/on button [⏻]** **11**
③ **Skip, Channel select, VCR, TV/AV buttons**
   [I◄◄, ►►I, ∨, ∧, VCR, TV/AV] **15, 22, 30**
④ **Stop buttons [■]** **13**
⑤ **Top menu button [TOP MENU]** **14**
⑥ **Cursor buttons [▲, ▼, ◄, ►]/**
   Enter, SET button [ENTER, SET] **11, 23**
   DT300 These buttons have the following functions.
   [▲]:[AUDIO ONLY] **16**
   [◄]:[GROUP] **15**
   [►]:[PAGE] **15**
⑦ **GUI display button [OSD]** **19**
⑧ **Setting button [SETUP]** **11**
⑨ **For the United Kingdom, Continental Europe and Russia**
   RDS, Timer button [RDS, TIMER] **22, 27**
   For Southeast Asia, Australia and N.Z.
   **Timer button [TIMER]** **27**
⑩ **Play mode button [PLAY MODE]** **17**
⑪ **FL display button [DISPLAY]** **27**
⑫ **A-B Repeat button [A-B REPEAT]** **16**
⑬ **Repeat button [REPEAT]** **16**
⑭ **Position memory, Center focus button**
   [POSITION MEMORY, CENTER FOCUS] **14, 26**
⑮ **Subwoofer level, Down mix button**
   [SUBWOOFER LEVEL, D.MIX] **25, 26**
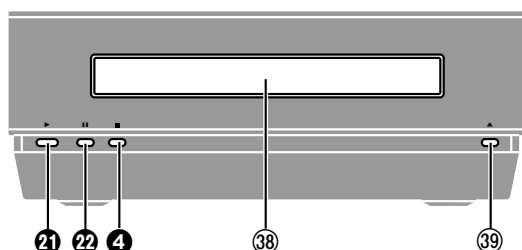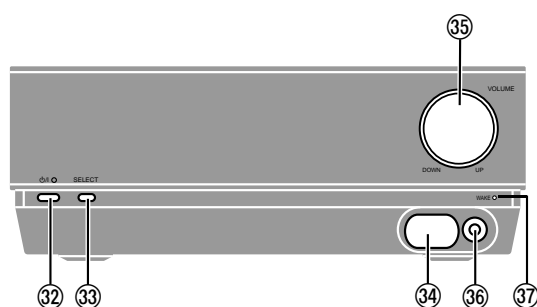⑯ **Shift button [SHIFT]**

> To operate functions labeled in orange, press [SHIFT] and
> the corresponding button at the same time.

⑰ **Muting, Super surround button**
   [MUTING, SUPER SURROUND] **26, 27**
⑱ **Tuner/Band, FM mode button**
   [TUNER/BAND, FM MODE] **11, 22**
⑲ **DVD/CD button [DVD/CD]** **11**
⑳ **Slow/Search buttons [◄◄, ►►, SLOW/SEARCH]** **15**
㉑ **Play button [►]** **13**
㉒ **Pause button [II]** **13**
㉓ **Menu button [MENU]** **14**
㉔ **Return, Angle button [RETURN, ANGLE]** **11, 18**
㉕ **Audio button [AUDIO]** **18**
㉖ **Subtitle button [SUBTITLE]** **18**
㉗ **Numbered buttons [1–9, 0, ≧10/-/--]** **14**
㉘ **Cancel button [CANCEL]** **17**
㉙ **Sound field control, Test button [SFC, TEST]** **25, 26**
㉚ **Dolby Pro Logic, Speaker channel select button**
   [ꞇꞇPL, CH SELECT] **25**
㉛ **Volume, TV Volume buttons [−, +,TV VOLUME]** **13, 30**

Main unit

Buttons **④**, **㉑** and **㉒** function the same as the controls on the re-
mote control.

㉜ **Standby/on switch [⏻/I]**
   Press to switch the unit from on to standby mode or vice versa.
   In standby mode, the unit is still consuming a small amount of
   power.
   Standby/on indicator
   When the unit is connected to the AC mains supply, this indicator
   lights red in standby mode and lights green when the unit is
   turned on.
㉝ **Select button [SELECT]** **13**
㉞ **Remote control signal sensor**
㉟ **Volume control [VOLUME, DOWN, UP]** **13**
㊱ **Headphone jack [⌒]** **27**
㊲ **Wake timer indicator [WAKE]** **27**
㊳ **Disc tray** **13**
㊴ **Open/close button [▲]** **13**

Discs—Basic play

SELECT

7

2

1·3

6

5

4

7

7
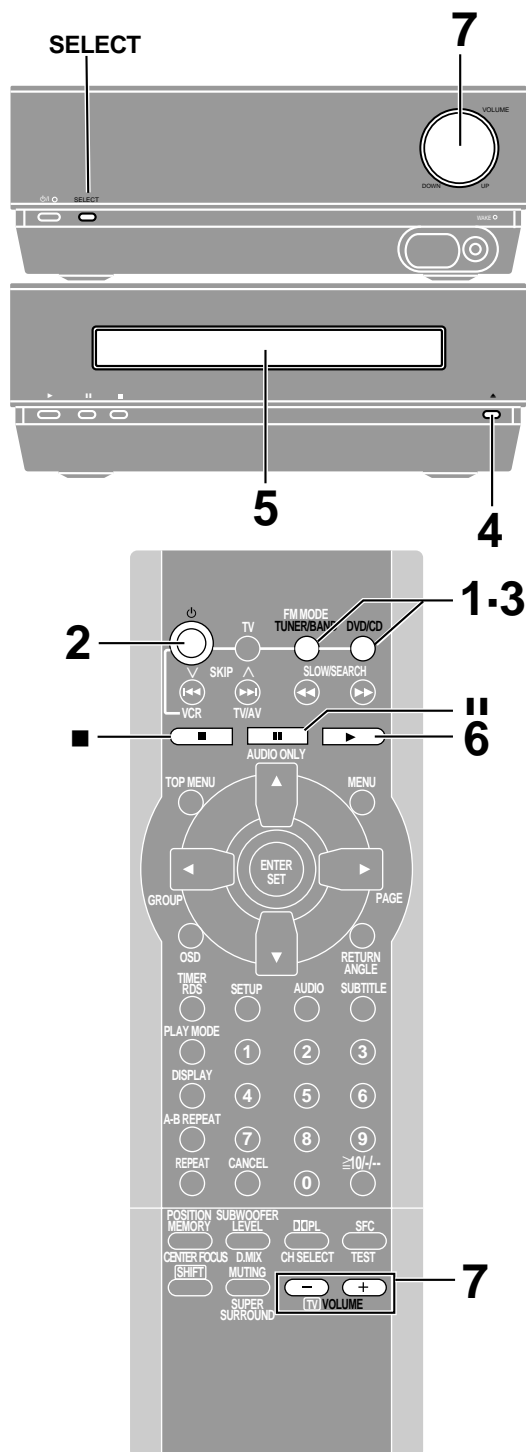
DVD-A DVD-V CD VCD

Preparation
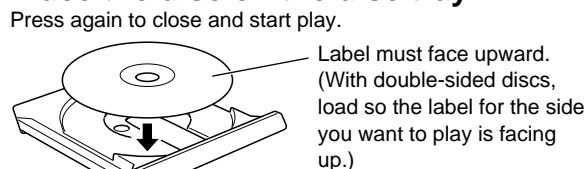
Turn on the television and select the appropriate video input on the television to suit the connections for the unit.

1 Press either [DVD/CD] or [TUNER/ BAND] to set the remote control to operate this unit.

2 Press [⏻] to turn on the unit.

3 Press [DVD/CD] to select "DVD" as the source.
- Main unit: Press [SELECT].
  Each time you press the button:
  DVD→TV<AUX>→VCR<EXT>→FM→AM

4 Press [▲] to open the disc tray.

5 Place the disc on the disc tray.
Press again to close and start play.

Label must face upward.
(With double-sided discs, load so the label for the side you want to play is facing up.)

**6 If play doesn't start after step 5
Press [▶] (PLAY).**

7 Adjust the volume.

■ **When "D.MIX" is flashing (➡ page 25)**

■ **To stop play**
Press [■] (➡ page 14, Resume function).

■ **To pause play**
Press [❙❙] during play.
Press [▶] (PLAY) to restart play.

Note

- **If "◇" appears on the television**
  The operation is prohibited by the unit or disc.
- The disc continues to rotate while the menu is displayed even after you finish playing an item. Press [■] when you finish to preserve the unit's motor and your television screen.
- Volume may be lower when playing DVDs than when playing other discs or during television broadcasts.
  If you turn the volume up, be sure to reduce the volume again before playing other sources so that a sudden increase in output does not occur.

SKIP
|◄◄ , ►►|

SLOW/
SEARCH
◄◄, ►►

■

TOP MENU

MENU

▲, ▼, ◄, ►
GROUP
PAGE
ENTER

RETURN

CANCEL

POSITION
MEMORY

SHIFT
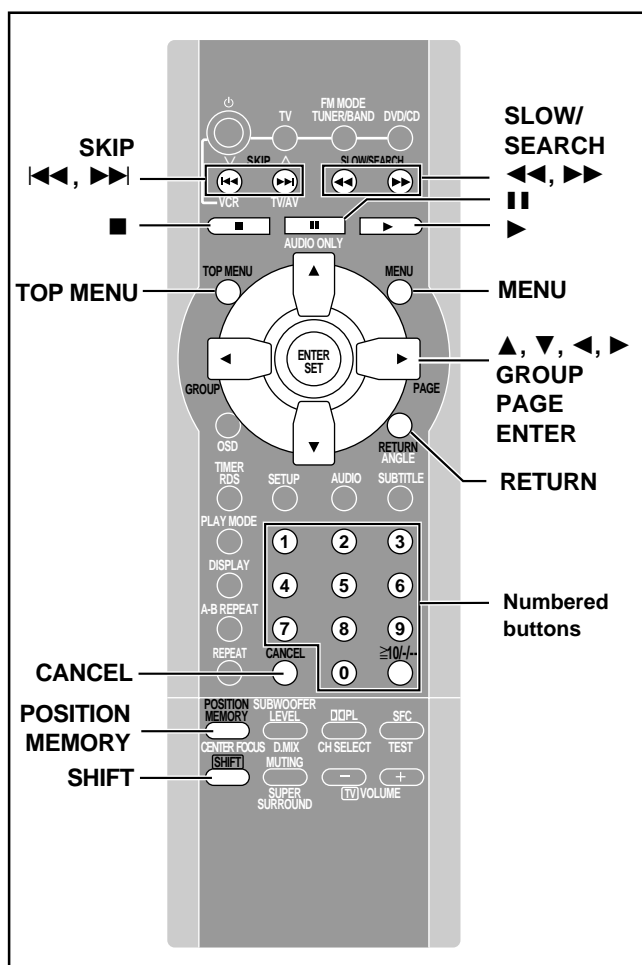
Numbered
buttons

When a menu appears on the television

DVD-A **DVD-V** **VCD**

Press the numbered buttons to select an item.

To select a 2-digit number
Example: To select item 23, press [≧10/-/--] ➡ [2] ➡ [3].
●When playing DVDs, you can also use [▲, ▼, ◄, ►] to select items. Press [ENTER] to confirm your selection.

Play of the selected item now begins.

Other buttons used to operate menus
Read the disc's instructions for further details about operation.
[►►|]: Shows the next menu.
[|◄◄]: Shows the previous menu.
[RETURN]: Shows the menu screen. **VCD**
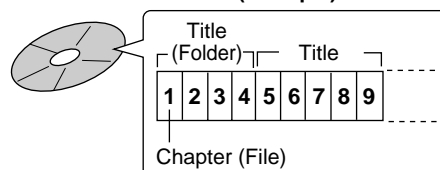[TOP MENU]: Shows the first menu screen. **DVD-A** **DVD-V**
[MENU]: Shows the menu screen. **DVD-V**

Playing MP3

CD

Discs recorded using MP3 differ to CDs in the following ways.
●**Structure of the disc (example)**

Title
(Folder)┐┌─ Title ─┐
1 2 3 4 5 6 7 8 9
Chapter (File)

●**Starting play from a selected chapter**
  Press the numbered buttons and press [ENTER].
  Example: Chapter 23: [2] ➡ [3] ➡ [ENTER]
               (Pressing [≧10/-/--] is unnecessary.)
●**Repeat play**
  You can use chapter repeat or title repeat (➡ page 16).
●**Program play, random play**
  You cannot use program play or random play.

Note
●If you play an MP3 track that includes still picture data, it will take some time before the music itself starts playing and the elapsed time will not be displayed during this time. Even after the track starts, the correct play time will not be displayed.
●This unit is not compatible with ID3 tags.

Refer to the glossary on page 33 for more information about MP3.

Resume function

DVD-A **DVD-V** **CD** **VCD**

(When the elapsed play time is displayed)

"RESUME" lights on the display when the unit has recorded the position at which you stopped play.

Press [►] (PLAY) to start play from that position.
(When playing DVD-Video ➡ Chapter Review below)
●The position is cleared when you:
  — Turn the unit off.
  — Open the disc tray or select another source.
●Press [■] to clear the position.

Position Memory function **DVD-V** **CD** **VCD**

During play

Press [POSITION MEMORY] to memorize a position.

Position memorized

This position is saved if you turn the unit off or change the source.
When you turn the unit on or reselect "DVD", "RESUME" lights on the display.
Press [►] (PLAY) to start play from the memorized position.
The position is cleared.
(When playing DVD-Video ➡ Chapter Review below)
●The position is cleared when you open the disc tray.

Chapter Review **DVD-V**

One of these messages appears immediately after you press [►] (PLAY).

Press PLAY to Chapter Review   Press PLAY to Preview Chapters

Press [►] (PLAY) while the message is displayed and the beginning portions of each chapter up to the current one are played.
Full play resumes from the point where you pressed [■] or [POSITION MEMORY].(This feature works only within a title.)
If you do not press [►] (PLAY), the message disappears and play starts from where you pressed [■] or [POSITION MEMORY].

Skipping chapters or tracks

`DVD-A` `DVD-V` `CD` `VCD`

During play or while paused
Press [|◄◄] or [►►|].
≥Each press increases the number of skips.

Fast forward and rewind—SEARCH

`DVD-A` `DVD-V` `CD` `VCD`

During play
Press [◄◄] or [►►].

≥Audio will be heard during search for most discs. You can turn this audio off if you want to (➡ page 28, Audio—Audio during Search).

Slow-motion play

`DVD-A` `DVD-V` `VCD`

While paused
Press [◄◄] or [►►].

Frame-by-frame viewing

`DVD-A` `DVD-V` `VCD`

While paused
Press [◄] or [►].
The frame changes each time you press the button.

≥The frames change in succession if you press and hold the button.
≥Pressing [❙❙] also activates forward frame-by-frame.

Notes
≥The speed of search and slow-motion increases up to 5 steps.
≥Press [►] (PLAY) to restart play.
≥You cannot move backwards with Video CD during frame-by-frame and slow-motion.
≥Frame-by-frame and slow-motion only work on the moving picture parts of DVD-Audio.

When playing Video CDs with playback control
Pressing buttons to perform skip, search or slow-motion may take you to a menu screen.

Starting play from a selected title or track

`DVD-A` `DVD-V` `CD` `VCD`

Press the numbered buttons to select the item.

To select a 2-digit number
Example: To select track 23, press [≧10/-/--] ➡ [2] ➡ [3].

Play starts from the selected item.

Note
This works only when stopped with some discs.

Selecting groups to play

`DT300`
`DVD-A`

The tracks on DVD-Audio are divided into groups. How these groups are played differs with the disc so read the instructions that came with the disc for further details.

1 Press [SHIFT] + [◄, GROUP].

2 Press the numbered buttons to select the group and press [ENTER].

3 Press the numbered buttons to select the track number and press [ENTER].
The selected group and track begin to play.

Playing all the groups in succession (➡ page 17, All group play)

Playing bonus groups

Some discs contain bonus groups. To enjoy these groups you may have to enter a password. Refer to the disc's jacket.
1. Press [◄, GROUP] to select the bonus group and press [ENTER].
2. Enter the 4-digit password with the numbered buttons and press [ENTER].
   ≥If you enter the wrong password, you can erase a digit by pressing [CANCEL].
3. Press the numbered buttons to select a track and press [ENTER].

≥The bonus group can be played as many times as you like after the password has been entered until the disc is removed from the unit.

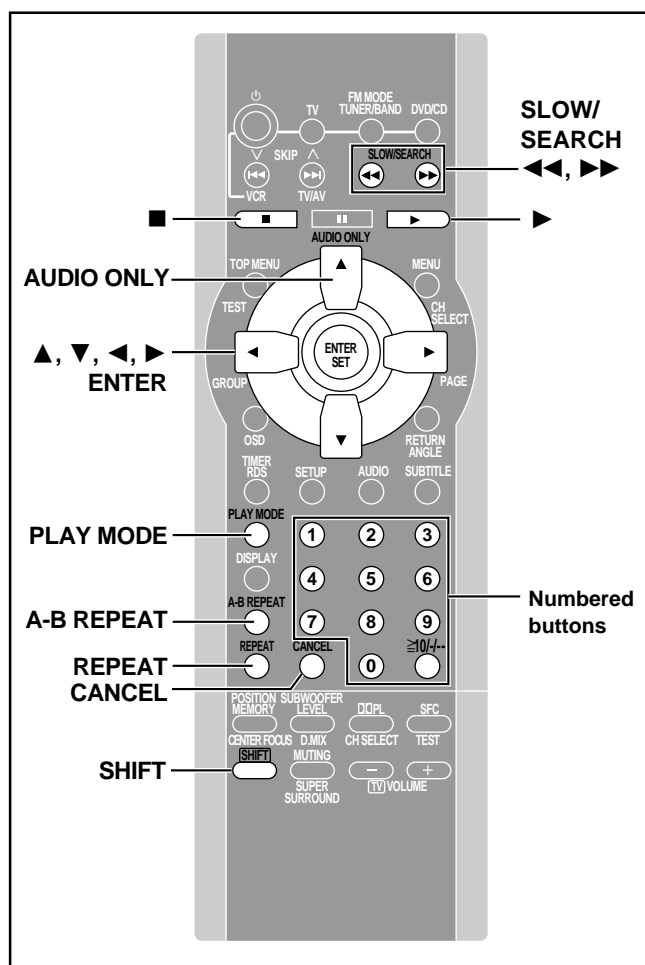## Selecting still pictures—Page Skip

`DT300`
`DVD-A`

During play
Press [SHIFT] + [►, PAGE].
The page changes each time you press [SHIFT] + [►, PAGE].

PAGE 1

Disc operations

Discs—Convenient functions

SLOW/
SEARCH
◄◄, ►►

►

AUDIO ONLY

▲, ▼, ◄, ►
ENTER

PLAY MODE

A-B REPEAT

REPEAT
CANCEL

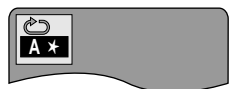**Numbered**
buttons

SHIFT

A-B repeat play

DVD-A DVD-V CD VCD
(When the elapsed play time is displayed)

You can repeat a section between points A and B within a title or track.

1 **During play**

Press [A-B REPEAT] at the starting point (A).

2 **Press [A-B REPEAT] at the finishing point (B).**

A-B repeat starts.

To cancel
Press [A-B REPEAT] until " " is displayed.

Note
- Some subtitles recorded around point A or B may fail to appear.
- The unit automatically determines the end of a title/track as point B when the end of the title/track is reached.

Repeat play

DVD-A DVD-V CD VCD
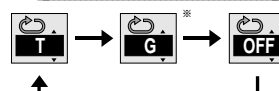**(When the elapsed play time is displayed)**

During play

Press [REPEAT].

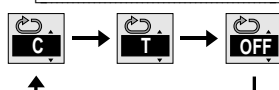Each time you press the button:

DVD-A
Track ⟶ Whole group ⟶ OFF

⟨image of T → G → OFF icons⟩ ※

※ During All group, Program, or Random play mode, "A" is displayed instead of "G".

DVD-V CD (MP3 disc)
Chapter ⟶ Title ⟶ OFF

⟨image of C → T → OFF icons⟩

CD VCD
Track ⟶ Entire disc ⟶ OFF

⟨image of T → A → OFF icons⟩
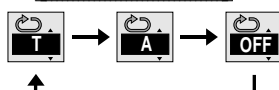
If the Video CD has playback control
1. Press [■].
2. Press the numbered buttons to select a track to start play (➡ page 15).
3. Press [REPEAT] (➡ above).

Note
You cannot use repeat play to repeat an entire DVD-Video or an entire MP3 disc.

■ To repeat only your favorite tracks
DVD-A CD VCD
Start program play (➡ page 17) and press [REPEAT] to select the repeat mode.

To enjoy even higher quality sound —AUDIO ONLY

DT300
DVD-A DVD-V CD VCD

You can enjoy higher quality audio by stopping the video signal.

Press [SHIFT] + [▲, AUDIO ONLY] .

AUDIO ONLY

- AUDIO ONLY is canceled if you press [SHIFT] + [▲, AUDIO ONLY] again or turn the unit off.

Note
- Video signals are output while the disc is stopped and when operations such as searching are performed. The television screen can appear unusual while video signals are not being output.
- The television may be distorted when video signals are turned on and off when you turn AUDIO ONLY on and off, but this is not a malfunction.
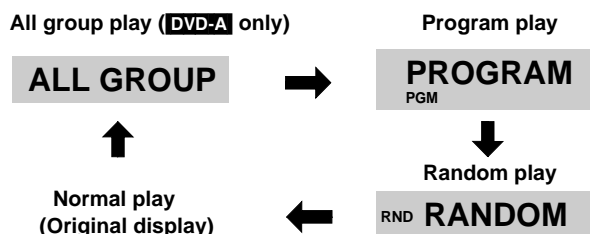
All group play/Program play/Random play

`DVD-A` `CD` `VCD`

While stopped

Press [PLAY MODE] to select the play mode.
The mode changes as follows each time you press the button.

All group play (`DVD-A` only)   **Program play**

| ALL GROUP | ➡ | PROGRAM PGM |

↑   ↓

Random play

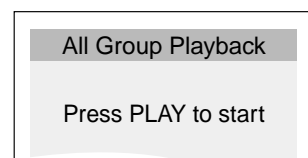| **Normal play (Original display)** | ⬅ | RND RANDOM |

After selecting the mode, follow the steps for the mode.

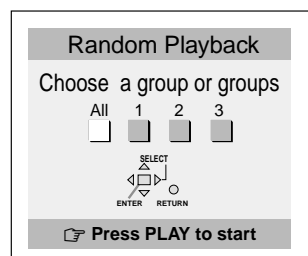`DVD-A` If you select bonus groups, you will have to enter a 4-digit password (➡ page 15).

All group play

To play all the groups in succession

> All Group Playback
>
> Press PLAY to start

Press [▶] (PLAY).

Random play

To play tracks randomly

e.g. `DVD-A` (three groups)

> Random Playback
>
> Choose a group or groups
> All   1   2   3
> □   □   □   □
> SELECT
> △
> ◁□▷ ○
> ▽
> ENTER   RETURN
> ☞ Press PLAY to start

1 `DVD-A`
Press [◀, ▶] to select a group and press [ENTER].
●You can select more than one group.

2 Press [▶] (PLAY).
Play now begins in random order.

To clear a group `DVD-A`
Press [◀, ▶] to select the group you want to clear, then press [ENTER].
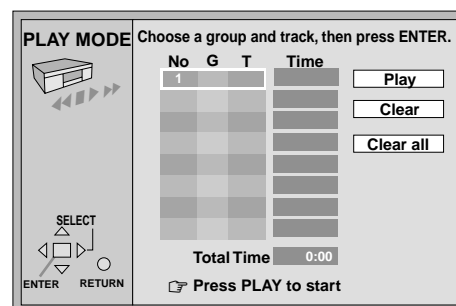

Normal play

Play modes are canceled and the program is cleared when you:
–Turn the unit off.
–Open the disc tray or select another source.

Program play

To play a maximum of 24 tracks in a programmed order

e.g. `DVD-A`

> PLAY MODE | Choose a group and track, then press ENTER.
> No   G   T   Time
> 1   Play
>   Clear
>   Clear all
> SELECT
> △
> ◁□▷
> ▽ ○
> ENTER   RETURN   Total Time   0:00
> ☞ Press PLAY to start

e.g. `CD`

> CD   P:00
> PGM
>
> Track No.
>
> Program No.

1 `DVD-A`
Press the numbered buttons to select a group.

2 Press the numbered buttons to select a track.
●Repeat steps **1** and **2** to program other tracks.
●**To select a track using the cursor buttons**
Press [ENTER] and [▲, ▼] to select a group or track, then press [ENTER] again to register the number.
All the tracks in the selected group are selected when you select "ALL".

3 Press [▶] (PLAY).
Play now begins in the programmed sequence.

When play is stopped and the program contents are shown on the display, you can also do the following.
●**To add or change groups or tracks**
Press [▲, ▼] to select an available item, then repeat steps **1** and **2**.
●**To check program contents**
Press [▲, ▼].
●**To move to the pages before or after the one shown**
Press [◀◀, ▶▶].
●**To clear tracks**
Press [CANCEL] to clear the last track in the program.
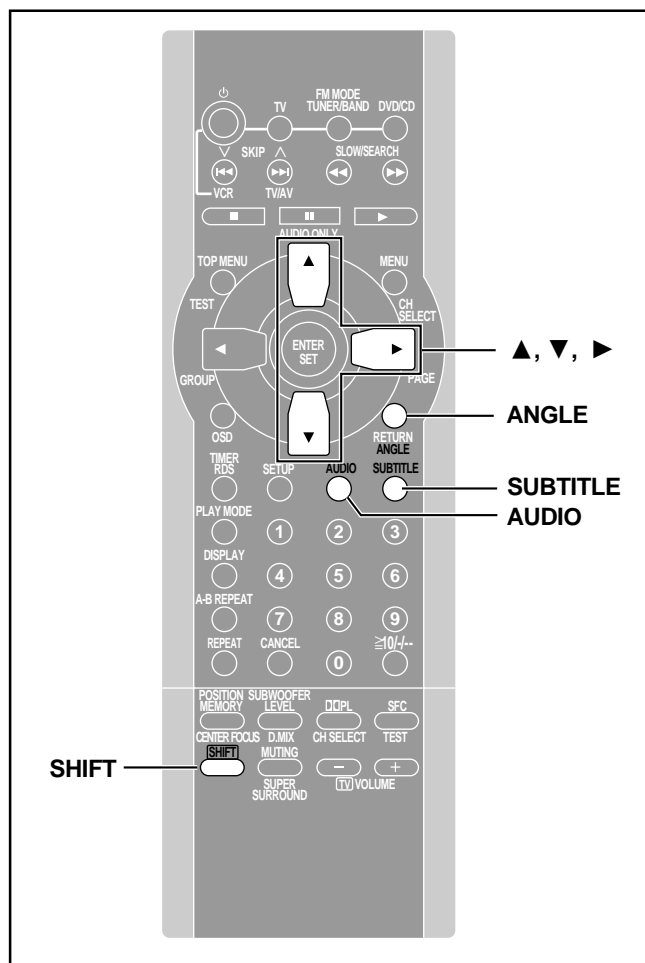●**To clear a track**
1. Select the item you want to clear.
2. Select "Clear" with [▲, ▼, ◀, ▶] and press [ENTER].
●**To clear the whole program**
Select "Clear all" with [▲, ▼, ◀, ▶] and press [ENTER].

Disc operations

17
RQT6387

Changing soundtracks, subtitle languages and angles

SHIFT

▲, ▼, ►

ANGLE

SUBTITLE
AUDIO

`DVD-A` `DVD-V`

Some DVDs have multiple soundtracks, subtitle languages and camera angles, and you can change these during play.
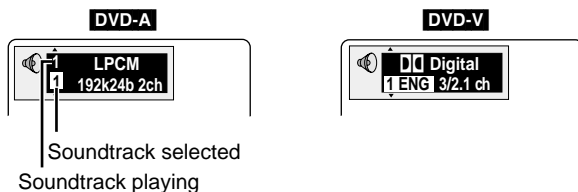● "–" or "––" is displayed instead of the language number in circumstances such as when no language is recorded on the disc.

Soundtracks

During play
Press [AUDIO].
The number changes each time you press the button.

| `DVD-A`	`DVD-V`
◀)) 1 **LPCM** 1 **192k24b 2ch**	◀)) **D[ ] Digital** 1 ENG **3/2.1 ch**

Soundtrack selected
Soundtrack playing

● Play restarts from the beginning of the soundtrack when changing DVD-Audio soundtracks that are accompanied by still pictures.
● Even if a second soundtrack isn't recorded on a DVD-Audio, two soundtrack numbers will normally be shown when you press [AUDIO]. The soundtrack currently playing is number 1.
● You can also use this button to turn the vocals on and off on karaoke discs. Read the disc's instructions for details.
● Refer to **A** and **B** on page 20 for language abbreviations and audio signal type details.
● `VCD`
Audio changes as follows each time you press [AUDIO]:
LR→L→R
↑_____|
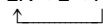
Subtitles

During play
Press [SUBTITLE].
The number changes each time you press the button.

ON ENG 1	ON FRA 2
I love you	**Je t'aime**
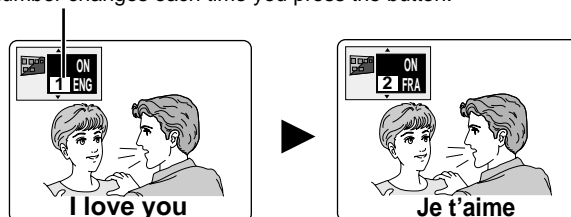
● In some cases, the subtitle language is not changed to the selected one immediately.
● Refer to **A** on page 20 for language abbreviations.

To clear/display the subtitles
1. Press [SUBTITLE].
2. Press [►].
3. Press [▲, ▼] to select "OFF" or "ON".

Angles
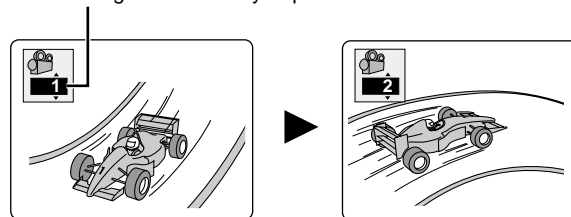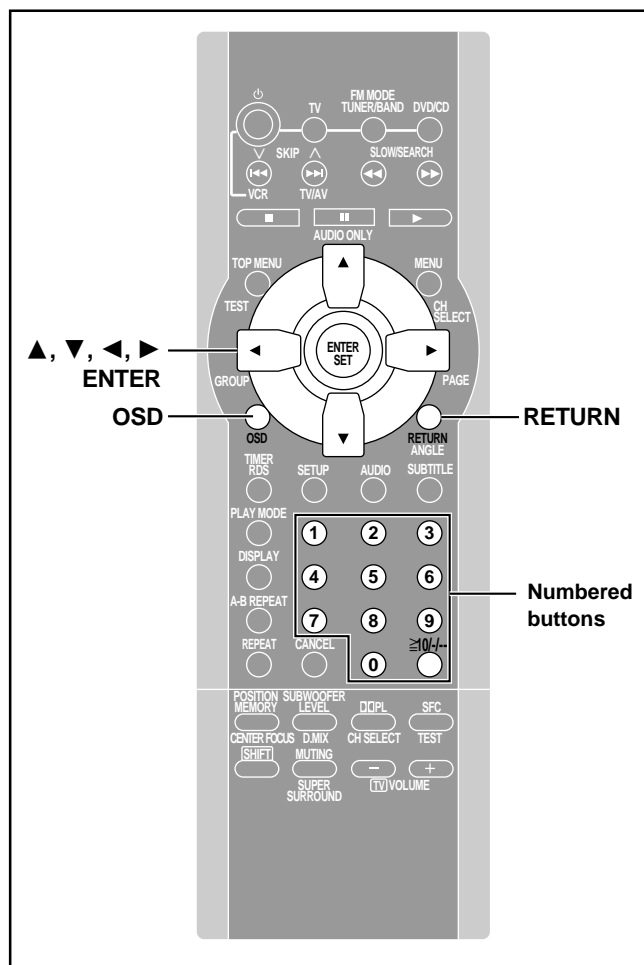
During play
Press [SHIFT] + [ANGLE].
The number changes each time you press the button.

Using Graphical User Interface (GUI) screens

GUI screens are menus that contain information about the disc or unit. These menus allow you to perform operations by changing this information.

Common procedures

1 Press [OSD].

Each time you press the button:

→Disc information

↓

Unit information

↓

Shuttle screen

↓

└─Original display

●The screens depend on disc contents.

2 [Unit information only]

While the leftmost icon is highlighted

Press [▲, ▼] to select the menu.

Each time you press the button:

┌→Play menu

↓ ↑

Display menu

↓ ↑

Audio menu

↓ ↑

└→Video menu

3 Press [◀, ▶] to select the item.

4 Press [▲, ▼] to select the setting.

●Items with "▲" or "▼" above and below can be changed by [▲, ▼].
●Press [ENTER] if the setting does not change after pressing [▲, ▼].
●Some items require different operations. Read the explanations on the following pages.

For your reference
●Depending on the condition of the unit (playing, stopped, etc.) and the type of software you are playing, there are some items that you cannot select or change.
●When numbers are displayed (e.g. title No.), the numbered buttons are also effective for setting. After entering the numbers, press [ENTER] to register the setting.

To clear the menus
Press [RETURN] until the menus disappear.

■ To change the position of the menus
1. Press [◀, ▶] to select the rightmost menus.
2. Press [▲, ▼] to move the menus.
   (There are 5 positions.)

Disc operations

Disc information

e.g. DVD-Video

| 🕐 ② ⊙ 1 : 46 : 50 ◁ DD Digital 1 ENG 3/2.1 ch 🔲 ON 1 ENG 📹 1 ⬍ |

Icon	Content
Ⓖ 2	**DT300** **DVD-A** Group number
🕐 2	**DVD-A** **CD** **VCD** Track number **DVD-V** Title number
Ⓒ 2	**DVD-V** Chapter number
⊙ 1 : 46 : 50	**DVD-A** **DVD-V** Time Select a position to start play by specifying a time with the numbered buttons. — — — — — **DVD-A** **CD** **VCD** **Changing the time display** Press [▲, ▼] to show the elapsed play time, remaining time for the track, or remaining time for the disc/group.
ⓑ ◁ DD Digital 1 ENG 3/2.1 ch ⓐ	**DVD-A** **DVD-V** Soundtrack ⓐ Soundtrack language (See **A** at right for language abbreviations.) ⓑ Audio signal type (See **B** at right for details.)
◁ Vocal 1 ✱ OFF	**Karaoke vocal on/off** (Karaoke DVD only) Solo: OFF or ON Duet: OFF, V1+V2, V1 or V2
🔲 ON 1 ENG	**DVD-A** **DVD-V** Subtitle language (See **A** at right for language abbreviations.)

Icon	Content
🔲 ON 1 ENG	**Subtitles on/off** ON⟷OFF
📹 1	**DVD-A** **DVD-V** Angle number
◫ Page 1	**DT300** **DVD-A** Still picture number Selected picture is shown during play.
◁ L R	**VCD** Audio mode LR⟷L⟷R ↑_____↑
PBC ON	**VCD** (with playback control only) **Menu play** Indicates whether menu play(playback control) is on or out.

A **Audio/Subtitle language**

ENG: English	SVE: Swedish	CHI: Chinese
FRA: French	NOR: Norwegian	KOR: Korean
DEU: German	DAN: Danish	MAL: Malay
ITA: Italian	POR: Portuguese	VIE: Vietnamese
ESP: Spanish	RUS: Russian	THA: Thai
NLD: Dutch	JPN: Japanese	✱: Others

B **Signal type/data**
LPCM/PPCM/DDDigital/DTS: Signal type
k (kHz): Sampling frequency
b (bit): Number of bits
ch (channel): Number of channels
Example:
3/2 .1ch

	.1: Subwoofer signal (not displayed if there is no subwoofer signal)
	0: No surround 1: Mono surround 2: Stereo surround (left/right)
	1: Center 2: Front left+Front right 3: Front left+Front right+Center

Unit information

🎴 **Play menu**

Icon	Content
↻ AB	**A-B repeat** (➡ page 16) [ENTER] (start point) ➡ [ENTER] (finish point) To cancel: [ENTER]
↻ OFF	**Repeat play** (➡ page 16)
▷ ―――	**DVD-A** **CD** **VCD** **Play mode display** (➡ page 17) ――― : Normal play PGM : Program play RND : Random play ALL : All group play(**DVD-A**)

Icon	Content
🎤 123✱✱	**Marker** You can mark up to 5 positions to play again. [ENTER] (The unit is now ready to accept markers.) — — — — To mark a position: [ENTER] (at the desired point) To mark another position: [◀, ▶] ➡ [ENTER] — — — — To recall a marker: [◀, ▶] ➡ [ENTER] — — — — To erase a marker: [◀, ▶] ➡ [CANCEL]

Notes on marker
- Only when the elapsed play time is displayed.
- Some subtitles may fail to appear around the marker.
- All the markers are cleared when you:
  – Turn the unit off.
  – Open the disc tray or select another source.

Unit information

📺 Display menu

Icon	Content
IPB OFF	**I/P/B display** (➡ page 33) ON⟷OFF Displays the picture type (I/P/B) in the still picture mode.

🔊 Audio menu

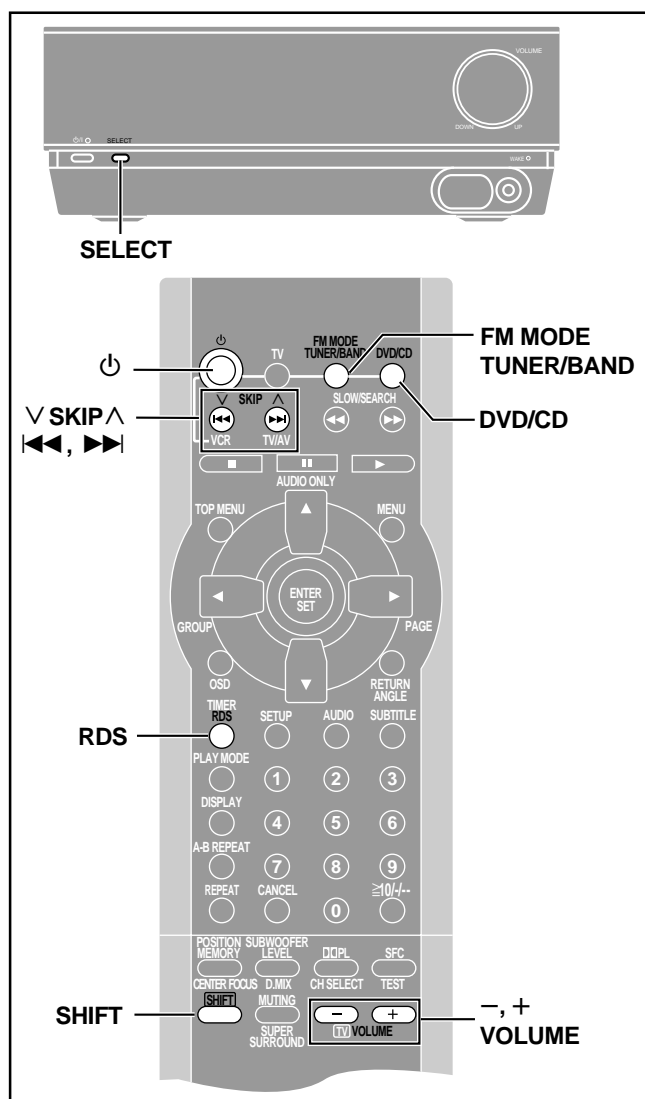| Icon	Content
OFF	(Dolby Digital/DTS, 3-channel or over only) **DVD-V** **Dialogue Enhancer** ON⟷OFF The volume of the dialogue from the center channel is raised when you select "ON".
OFF	**CD** **RE-MASTER** The re-master circuit improves the sound quality off 44.1-kHz audio signals from CDs. 1: for fast tracks (pop and rock) 2: for tracks with a variety of tempos (jazz) 3: for slow tracks (classical) OFF: The re-master circuit is off.

Shuttle screen

There are five speeds for both backward and forward slow-motion and search.
The numbers on either side of the shuttle screen indicate the maximum speeds of the search.

Icon	Content
⏸	**Pause**
◀I I▶	**Slow-motion play** ◀I: Backward **DVD-A** **DVD-V** I▶: Forward **DVD-A** **DVD-V** **VCD**
▶	**Play**
◀◀ ▶▶	**Search** ◀◀: Backward ▶▶: Forward

📺 Video menu

Icon	Content
N	**Digital picture mode** **DVD-A** **DVD-V** **VCD** N: Normal mode C: Cinema mode U: User mode The following items are also displayed when you select "U".
0	**Contrast** (−7 to +7) Increases the contrast between white and black parts of the picture.
0	**Brightness** (0 to +15) Brightens the picture.
0	**Color** (−7 to +7) Adjust the shade of the picture's color.

The radio: manual tuning

SELECT

Φ

∨ SKIP ∧
⊲⊲ , ⊳⊳|

**FM MODE
TUNER/BAND**

DVD/CD

RDS

SHIFT

**−, +
VOLUME**

1   Press either [DVD/CD] or [TUNER/BAND] to set the remote control to operate this unit.

2   Press [Φ] to turn on the unit.

3   Press [TUNER/BAND] to select "FM" or "AM".
Each time you press the button:
FM ⟷ AM

4   Press [SKIP (∨ or ∧)] to select the frequency of the required station.

Displayed when a radio station is tuned.

**TUNED
ST   FM 87.50**

Displayed when a stereo FM broadcast is being received.

Press and hold [SKIP (∨ or ∧)] until the frequency starts scrolling to start automatic tuning. Tuning stops when a station is found.

5   Adjust the volume.

If noise is excessive in FM

Press [SHIFT]+[FM MODE] to display "MONO".

**TUNED
MONO FM 87.50**

This mode improves sound quality if reception is weak but broadcasts are heard in monaural.
Press [SHIFT] + [FM MODE] again to cancel the mode.
The mode is also canceled when you changed the frequency.

Turn "MONO" off for normal listening.
Stereo and monaural broadcasts are automatically played as they are received.

RDS broadcasting
For the United Kingdom, Continental Europe and Russia

The unit can display the text data transmitted by the radio data system (RDS) available in some areas.
If the station you are listening to is transmitting RDS signals, "RDS" will light up on the display.
Displaying the text data
Press [RDS].
Each time you press the button:
PS→PTY→Frequency display

PTY displays			
NEWS	VARIED	FINANCE	COUNTRY
AFFAIRS	POP M	CHILDREN	NATIONAL
INFO	ROCK M	SOCIAL A	OLDIES
SPORT	M.O.R M*	RELIGION	FOLK M
EDUCATE	LIGHT M	PHONE IN	DOCUMENT
DRAMA	CLASSICS	TRAVEL	TEST
CULTURE	OTHER M	LEISURE	ALARM
SCIENCE	WEATHER	JAZZ	

*"M.O.R M"= Middle of the road music

Note
RDS displays may not be available if reception is poor.

AM frequency step **For Southeast Asia**

The step is factory-set to 9 kHz, but you can change it to receive broadcasts allocated 10 kHz steps.

① Press [SELECT] to select "AM".
② Press and hold [SELECT].
After a few seconds the display changes to show the current minimum frequency. Continue to hold the button down. The minimum frequency changes and the step is changed.

To return to the original step, repeat the above steps.

Note
Any AM frequencies preset in channels will be changed by this procedure. Preset them again.

Radio operations

The radio: preset tuning

TUNER/BAND

▲, ▼
SET

Numbered buttons

−, +
VOLUME
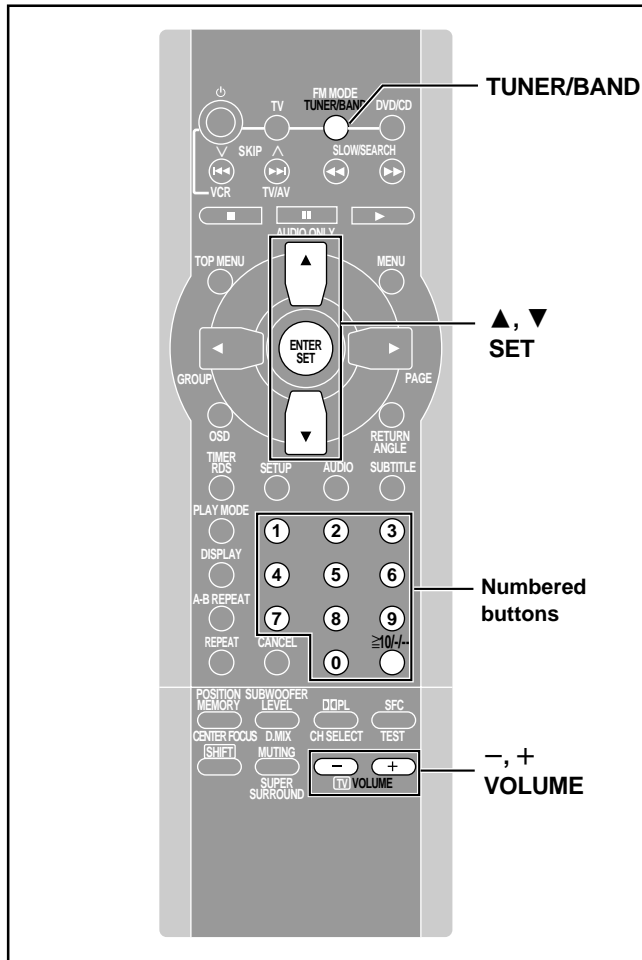
There are two methods of presetting stations.
Automatic presetting: The stations the tuner can receive are preset.
Manual presetting: You can select the stations to preset and the order they are preset in.
Up to 39 stations can each be set in the FM and AM bands.

Automatic presetting

1 **Tune to "FM 87.50 " (➡ page 22).**

FM 87.50

2 **Press and hold [SET].**
The FM stations the unit can receive are preset.
Release the button when "AUTO MEMORY" appears.

3 **Tune to "AM 522 "(or "AM 520").**

4 **Press and hold [SET].**
The AM stations the unit can receive are preset.
Release the button when "AUTO MEMORY" appears.

The tuner presets all the stations it can receive into the channels in ascending order. FM and AM stations are preset into channels 1 to 39.
"SET OK" is shown when presetting is complete and the last station to be preset is played.
"ERROR" is displayed if the tuner doesn't receive any stations. Do presetting manually if this happens (see below).

Manual presetting

Preset the stations one at a time.

1 **Tune to the station (➡ page 22).**

2 **Press [SET].**

ME CH

3 **Press [▲,▼] to select a channel.**

4 **Press [SET].**

The station occupying a channel is erased if another station is preset in that channel.

Selecting channels

1 **Press [TUNER/BAND] to select "FM" or "AM".**
Each time you press the button:
FM⟷AM

2 **Press the numbered buttons to select the channel.**

To select a 2-digit number
Example: To select channel 12, press [≧10/-/--] ➡ [1] ➡ [2]
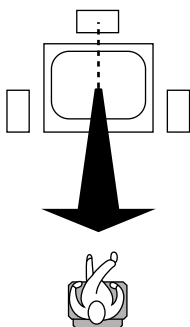
2 FM 87.50

Channel

3 **Adjust the volume.**

Sound field

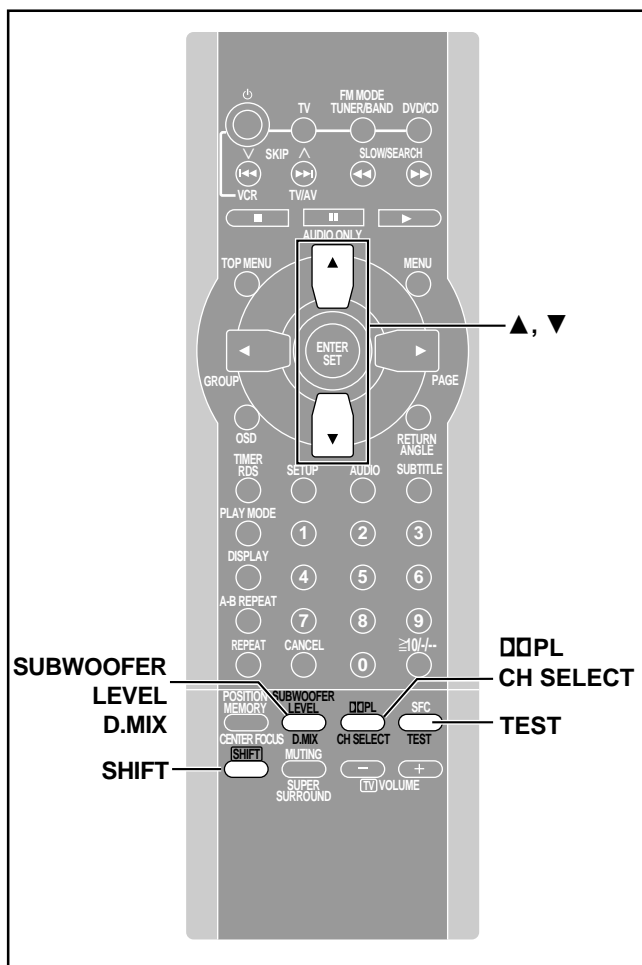| Sound field system	Features	Software
DOLBY DIGITAL and DTS (➡ page 25)	• Dolby Digital and DTS are digital encoding systems used on DVD to carry surround sound. Both were originally developed for use in cinemas. • This unit automatically recognizes and decodes these systems.	Software encoded with Dolby Digital can be identified with this mark. **□□ DOLBY DIGITAL** Software encoded with DTS can be identified with this mark. **DIGITAL dts SURROUND** • DVD
DOLBY PRO LOGIC (➡ page 25)	Dolby Pro Logic is a decoding system that was developed to get a better sense of presence from sources encoded with Dolby Surround. The feeling of position has been improved by the addition of a separate center speaker channel.	Software encoded with Dolby Surround can be identified with this mark. **□□ DOLBY SURROUND** • DVD • CD, Video CD • Laser Disc • Video tape
SUPER SURROUND (➡ page 26) — **MOVIE**	• This mode adds surround effects to movie software that hasn't been recorded with the above systems. • You can adjust the volume of the surround speakers to get the best surround effect.	Any stereo sound source.
SUPER SURROUND (➡ page 26) — **MUSIC**	• This mode adds surround effects to stereo sources. • You can adjust the volume of the surround speakers to get the best surround effect.	
Sound Field Control (➡ page 26)	Use sound field control effects to change the sound quality and add reverberation.	Any source.

CENTER FOCUS (➡ page 26)

- This mode makes it seem like the sound from the center speaker is coming from within the television.
- Effective when using Dolby Digital, DTS, and Dolby Pro Logic.

Sound quality/sound field operations

**SUBWOOFER
LEVEL
D.MIX**

SHIFT

▲, ▼

**⊡⊡PL
CH SELECT**

TEST

DOLBY DIGITAL and DTS

Play a DOLBY DIGITAL or DTS source.

The unit automatically determines the type of signal and processes it.

To add power to the bass from the subwoofer ➡ page 26.

To down-mix Dolby Digital or DTS (5.1 ch) signals to 2 channels
Press [SHIFT] + [D.MIX] during play.
To cancel, press [SHIFT] + [D.MIX] again.

When "D.MIX" is flashing
The DVD-Audio disc you are playing contains multiple-channel signals that cannot be down-mixed ("No Down-Mix" also appears).

1 Press [⊡⊡PL].

⊡⊡PL — Lights up

2 Play a Dolby Surround source.

To cancel
Press [⊡⊡PL].

Note
Turn Dolby Pro Logic off when playing a DVD recorded with Dolby Digital or DTS. The surround effects will not be reproduced correctly if this is left on.

Speaker level adjustments

If the level of the speakers appears to be different while listening to a source, adjust the level of the speakers to the same apparent level.

Preparation
DOLBY DIGITAL and DTS: Turn off the other surround systems.
DOLBY PRO LOGIC: Press [⊡⊡PL].

① Press [SHIFT] + [TEST] to output a test signal.

TEST Lch

Lch: Front left
Cch: Center
Rch: Front right
RSch: Right surround
LSch: Left surround
● The surround channel for Dolby Pro Logic is monaural so the indicator appears as "Sch" instead.

② Press [▲] (to increase) or [▼] (to decrease).

To stop the test signal, press [SHIFT] + [TEST] again.

To adjust speaker level during play
① Press [SHIFT] + [CH SELECT] to select the speaker.
Lch→Cch→Rch→RSch→LSch→SWch

SWch: Subwoofer
Dolby Pro Logic
● The surround channel is monaural so the indicator appears as "Sch" instead.
● "SWch" does not appear.
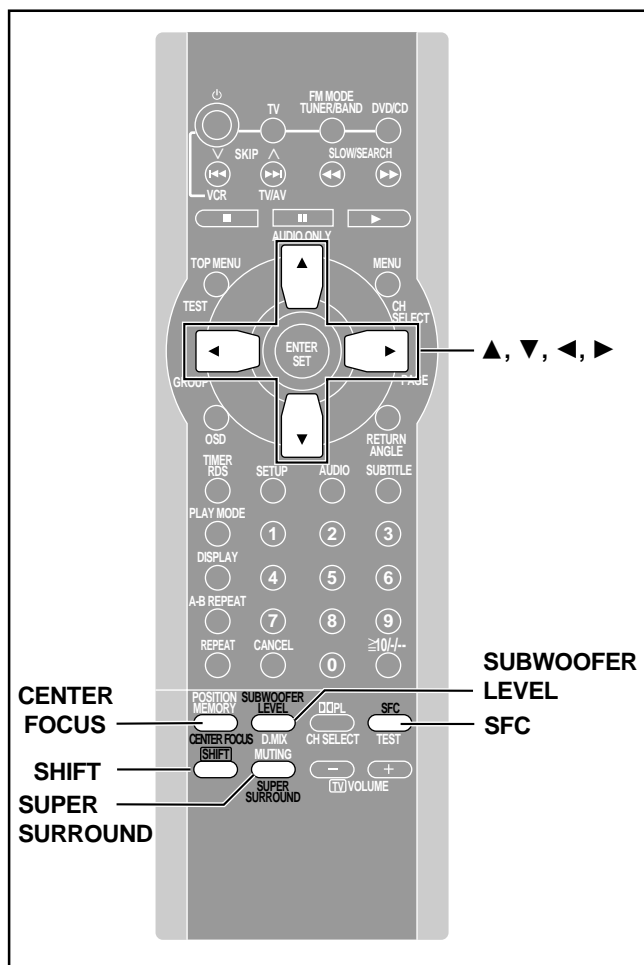② Press [▲] (to increase) or [▼] (to decrease).
L, R : −16 dB to 0 dB
C, RS, LS, S : −10 dB to +6 dB
SW : −10 dB to +10 dB

Note
You can also adjust subwoofer level by pressing [SUBWOOFER LEVEL].

Sound quality/sound field operations

▲, ▼, ◄, ►

CENTER
FOCUS

SHIFT

SUPER
SURROUND

SUBWOOFER
LEVEL

SFC

SUPER SURROUND

Press [SHIFT] + [SUPER SURROUND] to select "MOVIE" or "MUSIC".

▮▮▮ ▮▮▮ — Lights up

Each time you press the button:
MOVIE → MUSIC → OFF

To cancel
Press [SHIFT] + [SUPER SURROUND] to select "OFF".

Note
Turn super surround off when playing a DVD recorded with Dolby Digital or DTS. The surround effects will not be reproduced correctly if this is left on.

CENTER FOCUS

You can make the sound of the center speaker seem like it is coming from within the television. Place the center speaker above the television.

Press [SHIFT] + [CENTER FOCUS].

▣ — Lights up

Each time you press the button:
CENTER FOCUS ←→ OFF

Changing sound field and quality

Press [SFC] to select a setting.

HEAVY

Each time you press the button:
HEAVY: Adds punch to rock.
CLEAR: Clarifies higher sounds.
SOFT: For background music.
HALL: Expands sound to make you feel like you were in a hall.
MANUAL: below
FLAT: Canceled (no effect is added).(factory preset)

In MANUAL
You can select LOW, MID, or HIGH, and then adjust them in a range between −3 and +3.
1. Press and hold [SFC].
2. Press [◄,►] to select LOW, MID, or HIGH.
3. Press [▲,▼] to choose a level between −3 and +3.
Repeat steps 2 and 3 to adjust the sound quality to your taste.

Adjusting the bass

Press [SUBWOOFER LEVEL].

SUB W 1

Each time you press the button:
SUB W 1→SUB W 2→SUB W 3→SUB W 4→SUB W 0

0 : 0 dB
1 : +3 dB
2 : +6 dB
3 : +8 dB
4 : +10 dB

Note
You cannot adjust the bass while you are using headphones.

Turning the subwoofer off

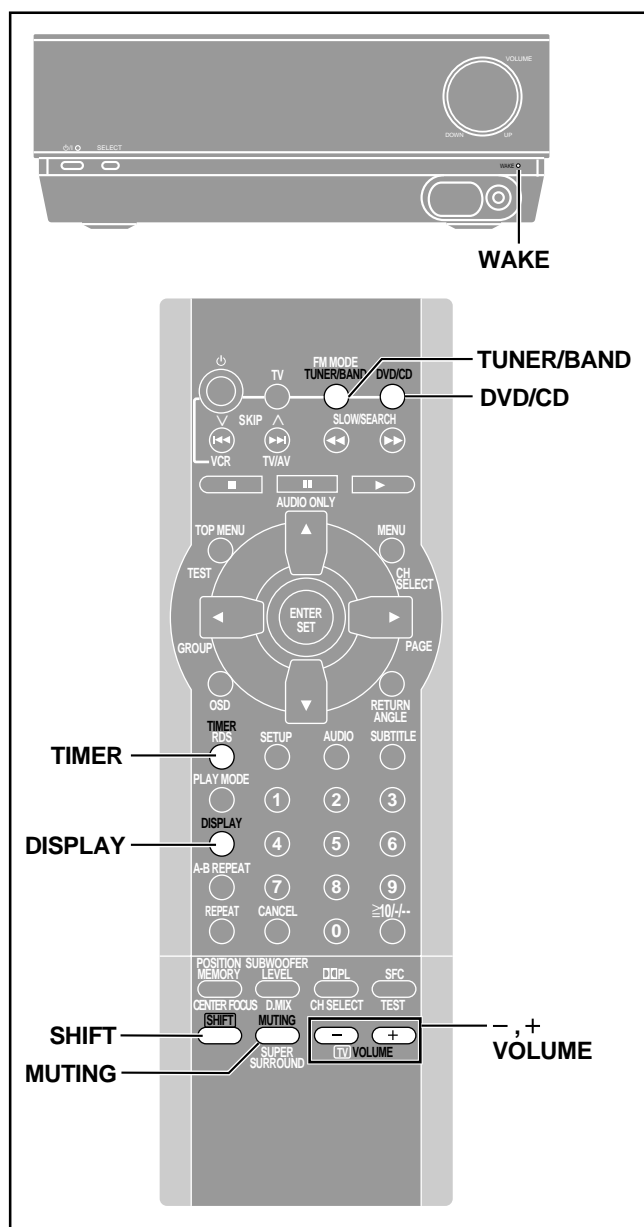You can improve the sound quality of stereo sources by turning the subwoofer off.

Press and hold [SUBWOOFER LEVEL].
SUB W OFF

Each time you press and hold the button:
SUB W OFF←→ SUB W ON

Convenient functions

WAKE

TUNER/BAND

DVD/CD

TIMER

DISPLAY

SHIFT

MUTING

—, + VOLUME

Muting the volume

Press [MUTING].

MUTING

Volume is reduced to minimum.

To cancel

Press [MUTING] again or reduce the volume to minimum (–– dB), then raise it to the required level.
Muting is also canceled when the unit is turned off.

Turning off the display

The display is turned off for better television viewing.

Press [DISPLAY].

To cancel, press [DISPLAY] again.

Timer functions

The SLEEP timer can turn the unit off after a set time and the WAKE timer can turn it on. You can use only one timer at a time.

Preparation

Select the desired source.
● Disc
  Press [DVD/CD] to display "DVD", and insert an Audio CD, etc.
● The radio
  Press [TUNER/BAND] to select "FM" or "AM" and tune in the desired station.

1 Press [SHIFT] + [TIMER] to select the timer.

Each time you press [SHIFT] + [TIMER]:
SLEEP ⟶ WAKE ⟶ OFF

The WAKE indicator lights when the wake timer is on.

2 Within 5 seconds,

Press and hold [SHIFT] + [TIMER] and release when the timer you require is displayed.

The display changes as follows:
● **SLEEP (in minutes)**
  30 ⟶ 60 ⟶ 90

● **WAKE (in hours)**
  5H ⟶ 7H ⟶ 9H

● SLEEP starts working immediately.
● The unit turns off shortly after you turn the WAKE timer on.

To check the SLEEP setting

Press [SHIFT] + [TIMER] once.
● The time remaining appears.

To change the setting

Repeat the procedure from the beginning.

Using headphones

1 Reduce the volume and connect the headphones (not included).

Headphone plug type: 3.5 mm stereo
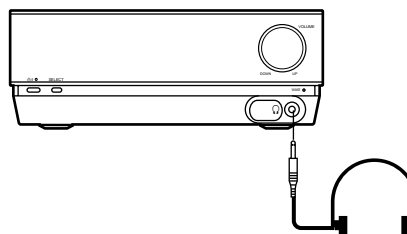
2 Adjust headphone volume with [—, +, VOLUME].

Audio is automatically switched to stereo (2-channel). If sound is distorted, turn on dynamic range compression (➡ page 28, Audio—D. Range Compression).

Note

Avoid listening for prolonged periods of time to prevent hearing damage.

Other functions

Changing settings

This chart shows the settings for this unit. Change the settings to suit your preferences and to suit the unit to the environment in which it is being used. These settings are retained in memory until they are changed, even if the unit is turned off. See page 29 for details on menu operation.

Menus	Items	Options (Underlined items are the factory preset.)
Disc	**Audio** DVD-A DVD-V Choose the preferred audio language.	※1 <u>English</u> French German Italian Spanish Original Other✳✳✳✳ ※2 <u>English</u> Chinese Original Other✳✳✳✳ Original: The original language of each disc will be selected. Other✳✳✳✳: Input a code number with the numbered buttons (➡ below).
	Subtitle DVD-A DVD-V Choose the preferred subtitle language.	※1 <u>Automatic</u> English French German Italian Spanish Other✳✳✳✳ ※2 <u>Automatic</u> Chinese Other✳✳✳✳ Automatic: If the language selected for "Audio" is not available, subtitles of that language will automatically appear if available on that disc.
	Menus DVD-A DVD-V Choose the preferred language for disc menus.	※1 <u>English</u> French German Italian Spanish Other✳✳✳✳ ※2 <u>English</u> Chinese Other✳✳✳✳
	Ratings DVD-V (➡ page 29) Set a ratings level to limit DVD-Video play. ●The password screen is shown if you choose levels 0 to 7 or if you choose "Ratings" when levels 0 to 7 have been selected. ●Select "Level 0" to prevent play of discs that do not have ratings levels recorded on them.	**Setting ratings (When level 8 is selected)** <u>8 No Limit</u> : All DVD-Video can be played. 1 to 7: Prohibits play of DVD-Video with corresponding ratings recorded on them. 0 Lock All: Prohibits play of all DVD-Video. - **Changing ratings (When level 0–7 is selected)** Unlock Player Change Level Change Password Temporary Unlock
Video	**TV Aspect** (➡ page 11) Choose the setting to suit your television and preference.	<u>4:3 Pan&Scan</u> 4:3 Letterbox 16:9
	Still Mode (➡ page 33) Specify the type of picture shown when paused.	<u>Automatic</u> Field Frame
	NTSC Disc Output Choose whether PAL 60 or NTSC signals are output during playback of NTSC discs (➡ page 5).	<u>PAL60</u>: when connected to a PAL television. NTSC: when connected to an NTSC television. (For Southeast Asia:"NTSC" is the factory preset.)
Audio	**Speaker Setting** DVD-V (➡ page 29) (Dolby Digital only) Set the delay time for your center and surround speakers.	Center: <u>0</u>/1.3/2.6/3.9/5.3 ms Surround(L/R): <u>0</u>/5.3/10.6/15.9 ms
	D. Range Compression DVD-V (Dolby Digital only) Change the dynamic range for late night viewing.	<u>Off</u> On Turn dynamic range compression on in the following cases. ●For clear dialogue when listening at low volume. ●When sound is distorted while playing multi-channel DVD through two channels (when headphones are connected or when using the D.MIX mode.)
	Audio during Search DVD-A DVD-V VCD Choose whether to have sound during search.	<u>On</u> Off: Audio will still be heard during search with some DVD-Audio.
Display	**Menu Language** Choose the preferred language for these menus and the on-screen messages.	※1 <u>English</u> Français Deutsch Italiano Español ※2 <u>English</u> 中文
	On-Screen Messages Choose whether to show on-screen messages or not.	<u>On</u> Off
Others DT300	**DVD-Video Mode** DVD-A Select how to play pictures contained on some DVD-Audio. The setting returns to "Off" when you remove the disc, turn the unit off or change the source.	<u>Off</u> :DVD-Audio are played as DVD-Audio. On: DVD-Video contents found on DVD-Audio can be played.

※1For the United Kingdom, Continental Europe, Russia, Australia and N.Z.
※2For Southeast Asia

Language code list

Language	Code	Language	Code	Language	Code	Language	Code	Language	Code	Language	Code
Abkhazian:	6566	Chinese:	9072	Hausa:	7265	Lithuanian:	7684	Romanian:	8279	Telugu:	8469
Afar:	6565	Corsican:	6779	Hebrew:	7387	Macedonian:	7775	Russian:	8285	Thai:	8472
Afrikaans:	6570	Croatian:	7282	Hindi:	7273	Malagasy:	7771	Samoan:	8377	Tibetan:	6679
Albanian:	8381	Czech:	6783	Hungarian:	7285	Malay:	7783	Sanskrit:	8365	Tigrinya:	8473
Ameharic:	6577	Danish:	6865	Icelandic:	7383	Malayalam:	7776	Scots Gaelic:	7168	Tonga:	8479
Arabic:	6582	Dutch:	7876	Indonesian:	7378	Maltese:	7784	Serbian:	8382	Turkish:	8482
Armenian:	7289	English:	6978	Interlingua:	7365	Maori:	7773	Serbo-Croatian:	8372	Turkmen:	8475
Assamese:	6583	Esperanto:	6979	Irish:	7165	Marathi:	7782	Shona:	8378	Twi:	8487
Aymara:	6588	Estonian:	6984	Italian:	7384	Moldavian:	7779	Sindhi:	8368	Ukrainian:	8575
Azerbaijani:	6590	Faroese:	7079	Japanese:	7465	Mongolian:	7778	Singhalese:	8373	Urdu:	8582
Bashkir:	6665	Fiji:	7074	Javanese:	7487	Nauru:	7865	Slovak:	8375	Uzbek:	8590
Basque:	6985	Finnish:	7073	Kannada:	7578	Nepali:	7869	Slovenian:	8376	Vietnamese:	8673
Bengali; Bangla:	6678	French:	7082	Kashmiri:	7583	Norwegian:	7879	Somali:	8379	Volapük:	8679
Bhutani:	6890	Frisian:	7089	Kazakh:	7575	Oriya:	7982	Spanish:	6983	Welsh:	6789
Bihari:	6672	Galician:	7176	Kirghiz:	7589	Pashto, Pushto:	8083	Sundanese:	8385	Wolof:	8779
Breton:	6682	Georgian:	7565	Korean:	7579	Persian:	7065	Swahili:	8387	Xhosa:	8872
Bulgarian:	6671	German:	6869	Kurdish:	7585	Polish:	8076	Swedish:	8386	Yiddish:	7473
Burmese:	7789	Greek:	6976	Laotian:	7679	Portuguese:	8084	Tagalog:	8476	Yoruba:	8979
Byelorussian:	6669	Greenlandic:	7576	Latin:	7665	Punjabi:	8065	Tajik:	8471	Zulu:	9085
Cambodian:	7577	Guarani:	7178	Latvian, Lettish:	7686	Quechua:	8185	Tamil:	8465		
Catalan:	6765	Gujarati:	7185	Lingala:	7678	Rhaeto-Romance:	8277	Tatar:	8484		

Other functions

DVD/CD

**▲, ▼, ◄, ►
ENTER**

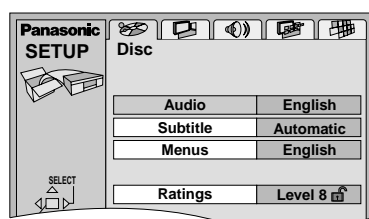**RETURN**

SETUP

CANCEL

**Numbered
buttons**
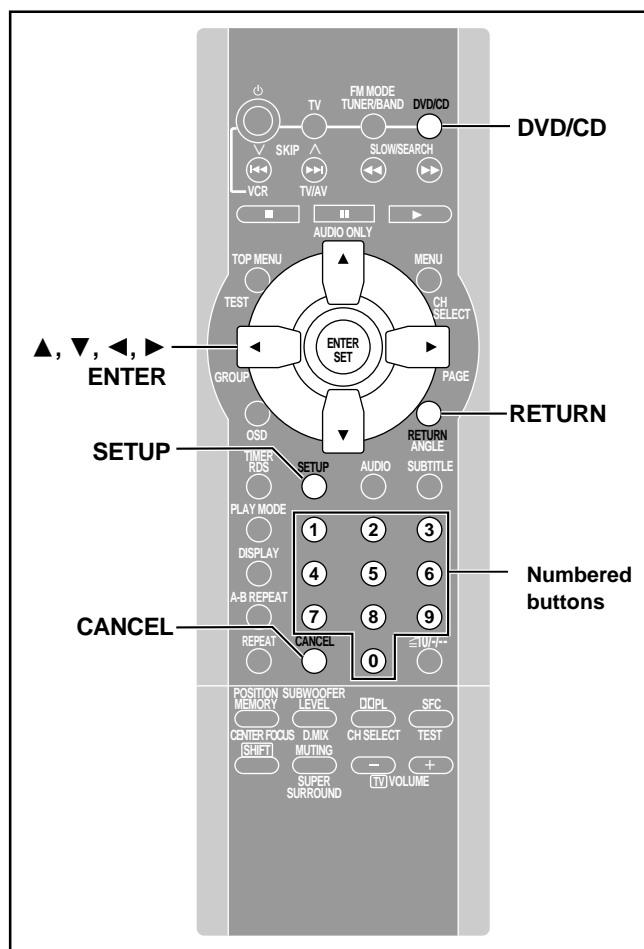
Common procedures

See page 28 for menu and option details.

Preparation
Press [DVD/CD] to select "DVD".

1 Press [SETUP] to show the menus.

Panasonic SETUP Disc	
Audio	English
Subtitle	Automatic
Menus	English
Ratings	Level 8

2 Press [◄, ►] to select the menu's tab.
The screen changes to display the menu.

Disc   Video   Audio   Display   Others DT300

3 Press [▲,▼] to select the item you want to change and press [ENTER].

4 Press [▲,▼] to select the option and press [ENTER].
The screen now shows the menu again.

To return to the previous screen
Press [RETURN].

When you are finished
Press [SETUP].

Entering a password (Ratings)

DVD-V

The password screen is shown when you select levels 0 to 7.
1. Input a 4-digit password with the numbered buttons and press [ENTER].
   ≥If you enter a wrong number, press [CANCEL] to erase it before you press [ENTER].
   ≥The lock symbol appears closed to show the rating is locked.
   ≥**Do not forget your password.**
2. Press [ENTER] to confirm the 4 digits.

Now, when you insert a DVD-Video that exceeds the ratings limit you set, a message appears on the television.
Follow the on-screen instructions.

Changing the delay time

DVD-V
(Dolby Digital, center and surround speakers only)

For optimum listening with 5.1-channel sound, all the speakers, except for the subwoofer, should be the same distance from the seating position. If you have to place the center or surround speakers closer to the seating position, adjust the delay time to make up for the difference.

Center delay time

Exit

Surround delay time
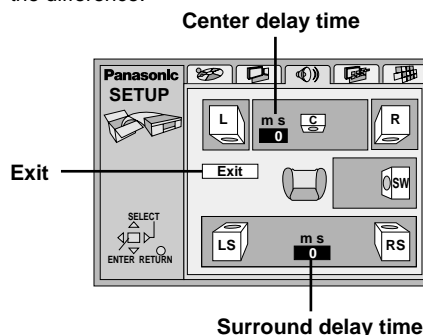
Changing the delay time
1. Press [▲,▼,◄,►] to select the delay time box and press [ENTER].
2. Press [▲,▼] to adjust the delay time and press [ENTER].
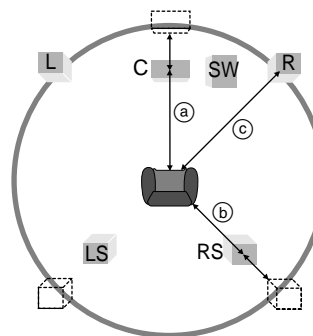
Values
If distance Ⓐ or Ⓑ is greater than or equal to distance Ⓒ, set to "0".
If distance Ⓐ or Ⓑ is less than distance Ⓒ, set as follows.

Ⓐ **Center speaker**

Difference	Setting
Approx. 50 cm	1.3 ms
Approx. 100 cm	2.6 ms
Approx. 150 cm	3.9 ms
Approx. 200 cm	5.3 ms

Ⓑ **Surround speakers**

Difference	Setting
Approx. 200 cm	5.3 ms
Approx. 400 cm	10.6 ms
Approx. 600 cm	15.9 ms

When you are finished
Press [▲, ▼, ◄, ►] to select "Exit" and press [ENTER].

Using the remote control with other equipment

TV .... **TUNER/BAND**

DVD/CD

∨ SKIP ∧
VCR
TV/AV .... ◄◄, ►►

► .... ►

■

SHIFT

−, +
TV VOLUME
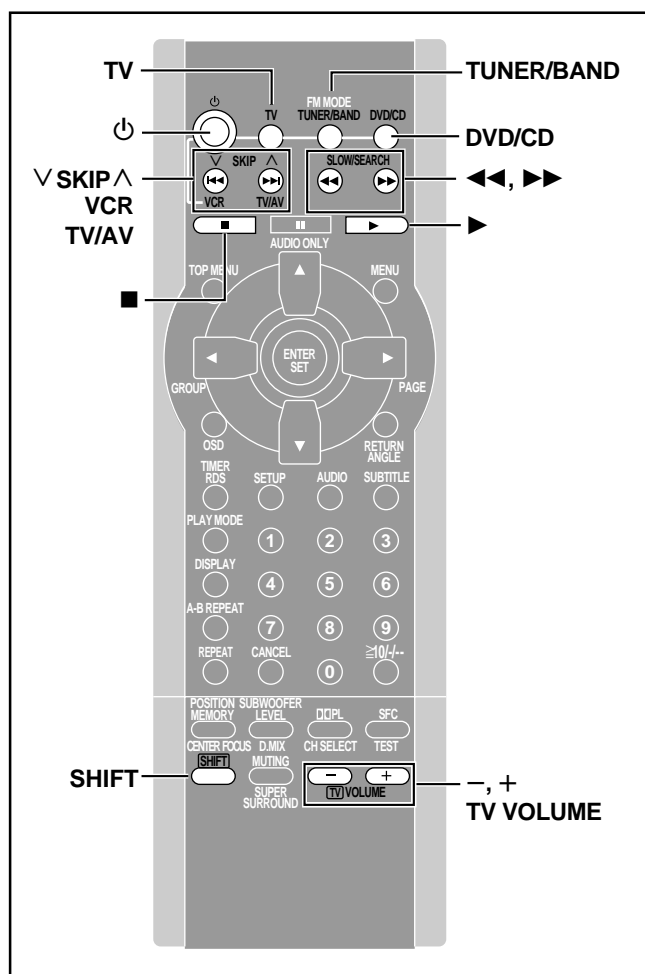
Operating a television

Switching to television operation mode
Press [TV].
The main unit also switches to television input.

Turning the television on/off
Press [⏻].

Changing channels
Press [SKIP (∨ or ∧)].
You can also select the channel with the numbered buttons.

Adjusting the volume
Press [SHIFT] + [TV VOLUME (− or +)].

Switching the television's video input mode
Press [SHIFT] +[TV/AV].

Operating a video cassette recorder

Switching to video cassette recorder operation mode
Press [SHIFT] + [VCR].
The main unit also switches to VCR input.

Turning the video cassette recorder on/off
Press [⏻].

Changing channels
Press [SKIP (∨ or ∧)].
You can also select the channel with the numbered buttons.

Starting play
Press [►] (PLAY).

Fast-forwarding and rewinding
Press and hold [◄◄] or [►►].

To stop play
Press [■].

Note
≥Some models cannot be operated by this remote control.
≥To prevent accidental operation, press [DVD/CD] or [TUNER/BAND] after operation so the unit is ready to operate this unit.
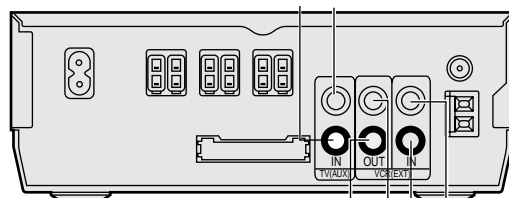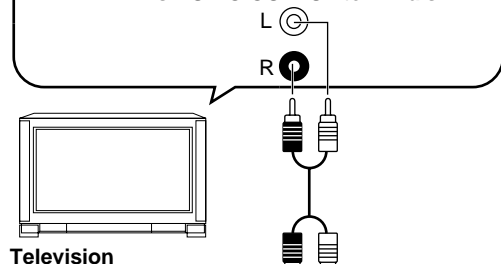
Listening to an external source/Recording to other equipment

● Turn the unit off before making connections.
● Refer to the manual of the other unit for details.
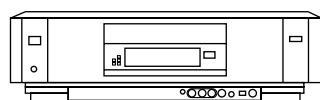 (Cables and equipment not included.)

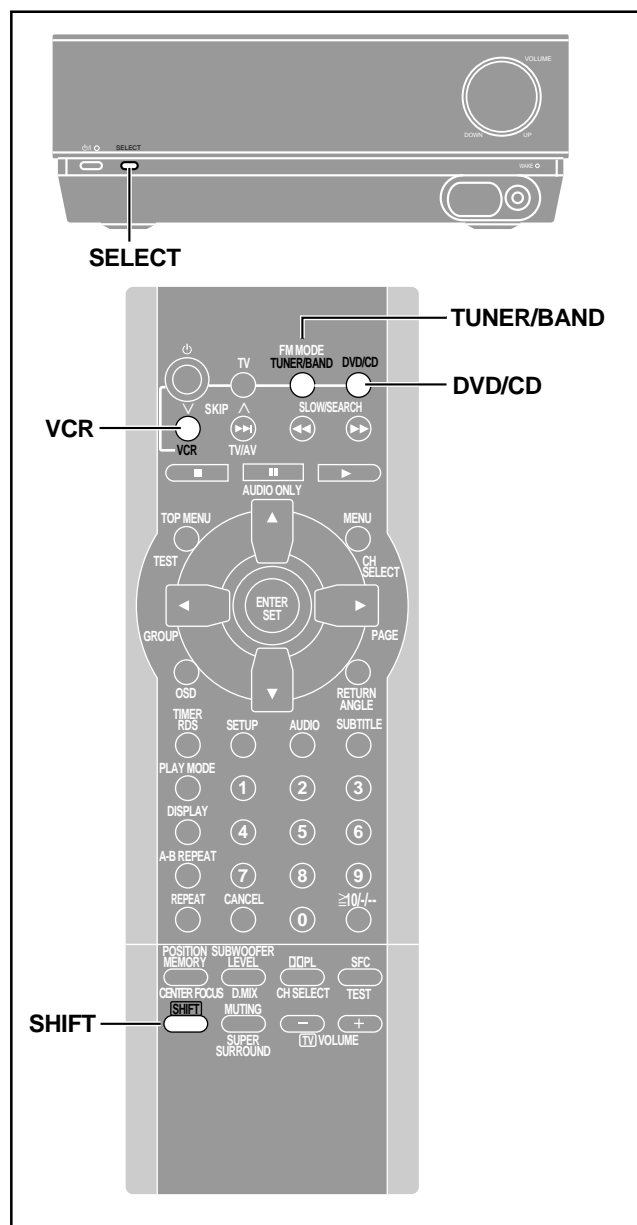| Audio cable		
White	**(L)**	⊏▥── ──▥⊐
Red	**(R)**	⊏▥── ──▥⊐

To listen to the television through this unit

TV's AUDIO OUTPUT terminals

L

R

Television

B **A**

Video cassette recorder

REC   PLAY
IN   OUT

L

R

When connecting a record player
We recommend using a record player with a built-in phono equalizer.
If your player doesn't have a built-in equalizer, connect it first to a
separate equalizer and then connect that to this unit.

SELECT

TUNER/BAND

DVD/CD

VCR

SHIFT

A   You can playback the sound from a video cassette re-
corder/a tape deck/laser disc player, etc., through this
unit's speaker.

1   Press [SHIFT] + [VCR].
● Main unit: Press [SELECT].
  Each time you press the button:
  DVD→TV<AUX>→**VCR<EXT>**→FM→AM

2   Start play.

B   You can record sound from the radio or discs, etc. to a
tape deck/a video cassette recorder.

1   Press [DVD/CD] to select "DVD".
Or

Press [TUNER/BAND] to select "FM" or "AM".
● Main unit ➡ see above.

2   Start recording and play.

Other functions

31

Optional antenna connections

Use outdoor antennas if radio reception is poor.

Note

Disconnect the outdoor antenna when the unit is not in use.
Do not use the outdoor antenna during an electrical storm.

FM outdoor antenna (Using a television antenna)

●Disconnect the FM indoor antenna.
●The antenna should be installed by a competent technician.

FM outdoor antenna

75 Ω coaxial cable
(not included)

For the United Kingdom only
Use the antenna plug
adaptor (included).
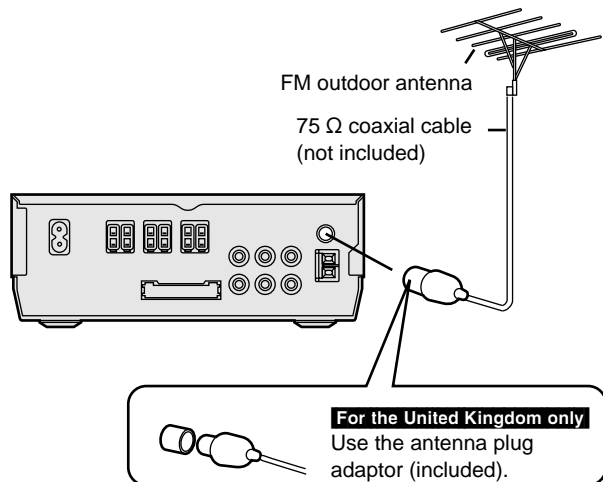
AM outdoor antenna (Using a vinyl wire)

Run a piece of vinyl wire horizontally across a window or other convenient location.
Leave the loop antenna connected.

AM loop antenna

5-12 m

AM outdoor antenna
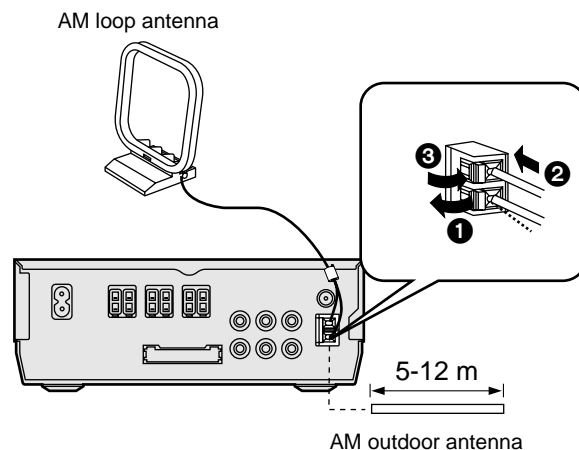
Safety precautions

Placement

Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration. These conditions can damage the cabinet and other components, thereby shortening the unit's service life.
Do not place heavy items on the unit.

Voltage

Do not use high voltage power sources. This can overload the unit and cause a fire.
Do not use a DC power source. Check the source carefully when setting the unit up on a ship or other place where DC is used.

AC mains lead protection

Ensure the AC mains lead is connected correctly and not damaged. Poor connection and lead damage can cause fire or electric shock. Do not pull, bend, or place heavy items on the lead.
Grasp the plug firmly when unplugging the lead. Pulling the AC mains lead can cause electric shock.
Do not handle the plug with wet hands. This can cause electric shock.

Foreign matter

Do not let metal objects fall inside the unit. This can cause electric shock or malfunction.
Do not let liquids get into the unit. This can cause electric shock or malfunction. If this occurs, immediately disconnect the unit from the power supply and contact your dealer.
Do not spray insecticides onto or into the unit. They contain flammable gases which can ignite if sprayed into the unit.

Service

Do not attempt to repair this unit by yourself. If sound is interrupted, indicators fail to light, smoke appears, or any other problem that is not covered in these instructions occurs, disconnect the AC mains lead and contact your dealer or an authorized service center. Electric shock or damage to the unit can occur if the unit is repaired, disassembled or reconstructed by unqualified persons.

Extend operating life by disconnecting the unit from the power source if it is not to be used for a long time.

Glossary

Bitstream
This is the digital form of multiple channel audio data (e.g., 5.1 channel) before it is decoded into its various channels.

Decoder
A decoder restores the coded audio signals on DVDs to normal. This is called decoding.

Dolby Digital
This is a method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2-channel) audio, these signals can also be 5.1-channel audio. A large amount of audio information can be recorded on one disc using this method.

Dolby Pro Logic
A surround system where a 4-channel audio track is recorded as 2 channels and then is restored to 4 channels for play. The surround channel is monaural and can reproduce up to 7 kHz.

DTS (Digital Theater Systems)
This surround system is used in many movie theaters around the world. There is good separation between the channels, so realistic sound effects are possible.

Dynamic range
Dynamic range is the difference between the lowest level of sound that can be heard above the noise of the equipment and the highest level of sound before distortion occurs.

Frame still and field still
Frames are the still pictures that go together to make a moving picture. There are about 30 frames shown each second.
One frame is made up of two fields. A regular television shows these fields one after the other to create frames.
A still is shown when you pause a moving picture. A frame still is made up of two alternating fields, so the picture may appear blurred, but overall quality is high.
A field still is not blurred, but it has only half the information of a frame still so picture quality is lower.

I/P/B
MPEG 2, the video compression standard adopted for use with DVD-Video, codes frames using these 3 picture types.
I: Intra coded picture (I-picture)
This is the standard picture and is a complete picture in itself. This means it has the best picture quality and is the best to use when adjusting the picture.
P: Predictive coded picture (P-picture)
This picture is calculated based on past I or P-pictures.
B: Bidirectionally-predictive coded picture (B-picture)
This picture is calculated by comparing past and future I and P-pictures so it has the lowest volume of information.

Linear PCM (pulse code modulation)
These are uncompressed digital signals, similar to those found on CDs.

MP3
A method of compressing audio, MPEG Audio Layer 3 (MP3) allows audio to be reduced to up to one tenth its original size without overtly hurting audio quality.
When creating MP3 files to play on this unit
● Disc formats: ISO9660 level 1 and level 2 (except for extended formats)
Files: MP3 files with the suffix ".mp3" or ".MP3"
● To have this unit play files in a certain order, prefix folder and file names with numbers in the order you want to play them. This may not work in all cases.
Not compatible with multi-session recordings
If you record MP3 onto CD-R/CD-RW over a number of sessions, this unit can play only the recordings made in the first session.

Playback control (PBC)
If a Video CD has playback control, you can select scenes and information with menus.

Reference

Troubleshooting guide

Before requesting service, make the below checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, consult your dealer for instructions.

Reference pages are shown as black circled numbers ❿.

Power

No power.	●Insert the AC mains lead securely into the household mains socket. ❿
The unit is automatically switched to the standby mode.	●The unit was switched to standby by the sleep timer. ㉗ .

Operation

No response when buttons pressed.	●Some operations may be prohibited by the disc. ●The unit may not be operating properly due to lightning, static electricity or some other external factor. **Reset procedure:** Press [⏻] to switch the unit to the standby mode and then back to ON. Alternatively, press [⏻] to switch the unit to the standby mode, disconnect the AC mains lead, and then reconnect it.
No operations can be performed with the remote control.	●Check the batteries are installed correctly. ⓫ ●The batteries are depleted: Replace them with new ones. ⓫ ●Point the remote control at the remote control sensor and operate.
Play fails to start even when [▶](PLAY) is pressed. Play starts but then stops immediately.	●Condensation has formed: Wait 1 to 2 hours for it to evaporate. ●This unit cannot play discs other than DVD-Audio, DVD-Video, CD and Video CD. ❺ ●You can only play DVD-Video if their region number is the same or includes the same region number as the unit or if the DVD-Video is marked "ALL". Confirm the region number for the unit on the rear panel. ❶ ●The disc may be dirty and may require cleaning. ❺ ●Ensure that the disc is installed with the label of the side to be played facing upwards. ⓭
Alternative languages fail to be selected.	●An alternative language is not selected with discs which do not contain more than one language. ●In the case of some discs, the alternative language cannot be selected with [AUDIO] or [SUBTITLE]. Try selecting it from the disc's menu if one is available. ⓮
No menu play.	●Menus are only displayed if they are recorded on the disc.
No subtitles.	●Subtitles appear only with discs that contain them. ●Subtitles are cleared from the television. Display the subtitles. ⓲
Soundtrack and/or subtitle language is not the one selected with the SETUP menus.	●The language is not recorded on the disc.
Angle cannot be changed.	●This function is dependent on software availability. Even if a disc has a number of angles recorded, these angles may be recorded for specific scenes only.
The SETUP menu cannot be accessed.	●Select disc as the source. ●Cancel program and random play. ⓱
You have forgotten your ratings password. Reset all the settings to Factory Preset.	●While stopped, press and hold [■] on the unit and [≧10/-/--] on the remote control for about 3 seconds until "Initialized" disappears from the television. Turn the unit off and on again. All settings will return to the default values.

Sound

No sound. Distorted sound.	●Check the connections. ❼ – ❿, ㉛ ㉜ ●Turn the volume up. ●Turn muting off. ㉗ ●Switch off the unit, determine and correct the cause, then switch the unit on. Causes include: –Shorting (bare wires touching) of positive and negative speaker wires. ❽ –Using speakers with an impedance lower than that rated for this unit. ㊱ –Straining of the speakers through excessive volume or power. –Using the unit in a hot environment without proper ventilation.
Humming heard during play.	●An AC mains lead or fluorescent light is near the cables. Keep other appliances and cords away from this unit's cables.
No sound from the subwoofer.	●Check that the subwoofer has not been set to "SUB W OFF". ㉖

Picture

Picture distorted.	●Some distortion is normal during SEARCH. ●The screen may be disrupted briefly when you turn on and off the AUDIO ONLY feature. ⓰
No picture.	●Ensure that the television is connected properly. ⓾ ●Make sure the television is on. ●Ensure the television's video input setting (e.g., VIDEO 1) is correct.
The picture shown on the television is not normal. (The sides of the picture are cut off or black bands appear at the top and bottom of the screen.)	●Go to the Video menu in the SETUP screen, and change "TV Aspect" to suit your television. You may also need to change the screen mode on the television itself. ⓫ ●Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder.
Picture quality is poor.	●Check the settings in the GUI screen's video menu. ㉑
The picture on the television disappears or stripes appear on the screen.	●The location and orientation of the antenna are incorrect. If you are using an indoor antenna, change to an outdoor antenna. ㉜ The television antenna wire is too close to the unit. Separate the antenna wire of the television from the unit.

Listening to the radio

Noise is heard. The stereo indicator flickers or doesn't light. Sound is distorted.	●Adjust the position of the FM or AM antenna. ⓾ ●Use an outdoor antenna. ㉜
A beat sound is heard.	●Turn the television off or separate it from the unit.
A low hum is heard during AM broadcasts.	●Separate the antenna from other cables and cords.
The correct AM frequency can't be tuned in.	●Change the frequency step. Press [TUNER/BAND] to select "AM", then press and hold [SELECT] for 10 seconds to change the step to suit your area.

Unit displays

This unit's display is off.	●Press [DISPLAY] to turn the display on.
"NO PLAY"	●You inserted a disc the unit cannot play; insert one it can. ❺
"NO DISC"	●You haven't inserted a disc; insert one. ●You haven't inserted the disc correctly; insert it correctly. ⓭
"F61"	●Check and correct the speaker cord connections. If this does not fix the problem, there is a power supply problem. Consult the dealer.
"DVD U11"	●The disc is dirty. Wipe it with a soft cloth. ❺
"ERROR"	●Incorrect operation performed. Read the instructions and try again.
"DVD H□□" □□ stands for a number.	●Trouble is likely to have occurred. The number following "H" depends on the status of the unit. **Reset procedure:** Press [⏻] to switch the unit to the standby mode and then back to ON. Alternatively, press [⏻] to switch the unit to the standby mode, disconnect the AC mains lead, and then reconnect it. ●If the service numbers fail to clear, note the service number and contact a qualified service person.

Television displays

No on-screen display.	●Go to Display in the SETUP menus, and select "On" for "On-Screen Messages". ㉘
GUI screens not displayed or only partially displayed on the television.	●Press [▲, ▼] while the rightmost icon is highlighted to move them down. ⓳
The disc's menu is displayed in a different language.	●Go to Disc in the SETUP menus, and select the preferred language for "Menus". ㉘

Maintenance

The surface of the cabinet is polished.
Use the included cloth to clean it.
●Never use alcohol, paint thinner or benzine to clean this unit.

Specifications(DIN 45 500)

AV CONTROL RECEIVER
■ Amplifier section
Power output
(For the United Kingdom, Australia, N.Z. and Southeast Asia except Thailand:at 240 V)

RMS power output (THD 10 %, 6 Ω)	
FRONT (1 kHz both channel driven)	2×35 W
SURROUND (1 kHz both channel driven)	2×35 W
CENTER (1 kHz)	40 W
SUBWOOFER (100 Hz)	40 W
DIN power output (THD 1.0 %, 6 Ω)	
FRONT (1 kHz both channel driven)	2×28 W
SURROUND (1 kHz both channel driven)	2×27 W
CENTER (1 kHz)	35 W
SUBWOOFER (100 Hz)	35 W
Load impedance	6 Ω

■Pre amplifier section
Input terminal	VCR(EXT), TV(AUX)
Output terminal	VCR(EXT)

■FM tuner section
Frequency range	87.50–108.00 MHz (0.05 MHz steps)
Antenna terminals	75 Ω (unbalanced)

■AM tuner section
Frequency range	522–1629 kHz (9 kHz steps)
	520–1630 kHz (10 kHz steps)

■Timer section
Sleep timer	30/60/90 minutes
Wakeup timer	5/7/9 hours

■Headphone
Jack type	3.5 mm STEREO
Load impedance	16–32 Ω

■GENERAL
Power supply

For the United Kingdom, Australia and N.Z.	AC 230–240 V, 50 Hz
For Continental Europe and Russia	AC 230 V, 50 Hz
For Southeast Asia except Thailand	AC 230–240 V, 50/60 Hz
For Thailand	AC 220V, 50 Hz
Power consumption	80 W
Standby condition	0.7 W
Dimensions (W×H×D)	190×73×360 mm
Mass	4.0 kg

DVD/CD PLAYER
■Disc played
DVD-Audio (DT300 only)
DVD-Video, DVD-R(DVD-Video format discs)
CD(CD-DA), Video-CD
CD-R/RW(CD-DA, Video-CD, MP3 format discs)

■Audio
Number of channels	5.1(FL, FR, SL, SR, C, SW)

■Video
Signal system	PAL, PAL60/NTSC
Output terminal	RCA terminal(composite video)
	S terminal(Y, C)

■Pickup
Beam source	Semiconductor laser
Wavelength	658/790 nm

NORSK
■Pickup
Bølgelengde	658/790 nm
Laser-styrke	Ingen farlig stråling sendes ut

■GENERAL
Dimensions(W×H×D)	190×73×335 mm
Mass	1.8 kg

FRONT SPEAKER DT300
Type	2 way, 2 speaker, Bass reflex
Speaker(s)	
Woofer	8 cm cone type
Tweeter	2.5 cm dome type
Impedance	6 Ω
Input power	60 W (Music)
Sound pressure level	79 dB/W (1.0 m)
Crossover frequency	2.5 kHz
Frequency range	58 Hz–40 kHz (−16 dB)
	65 Hz–36 kHz (−10 dB)
Dimensions (W×H×D)	103×227×220 mm
Mass	2.6 kg

FRONT SPEAKER DT100
Type	2 way, 2 speaker, Closed
Speaker(s)	
Woofer	8 cm cone type
Tweeter	2.5 cm semi-dome type
Impedance	6 Ω
Input power	60 W (Music)
Sound pressure level	79 dB/W (1.0 m)
Crossover frequency	3 kHz
Frequency range	70 Hz–25 kHz (−16 dB)
	90 Hz–22 kHz (−10 dB)
Dimensions (W×H×D)	103×170×162 mm
Mass	1.4 kg

CENTER, SURROUND SPEAKER
Type	1 way, 1 speaker, Closed
Speaker(s)	
Woofer	6.5 cm cone type
Impedance	6 Ω
Input power	60 W (Music)
Sound pressure level	79 dB/W (1.0 m)
Frequency range	150 Hz–25 kHz (−16 dB)
	200 Hz–22 kHz (−10 dB)
Dimensions (W×H×D)	84×105×93 mm
Mass	0.75 kg

SUBWOOFER
Type	1 way, 1 speaker, Bass reflex
Speaker	
Woofer	17 cm cone type
Impedance	6 Ω
Input power	60 W (Music)
Sound pressure level	80 dB/W (1.0 m)
Frequency range	43 Hz–5 kHz (−16 dB)
	48 Hz–3 kHz (−10 dB)
Dimensions (W×H×D)	200×260×294 mm
Mass	4.0 kg

Note
1. Specifications are subject to change without notice.
   Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.