# Operating Instructions
# Bedienungsanleitung
# Manuel d'instructions
# Gebruiksaanwijzing
# Bruksanvisning
# Manuale di istruzioni
# Manual de Instrucciones

<CQ-DRX900N>

High-Power CD Player/RDS Receiver with DSP and Changer Control

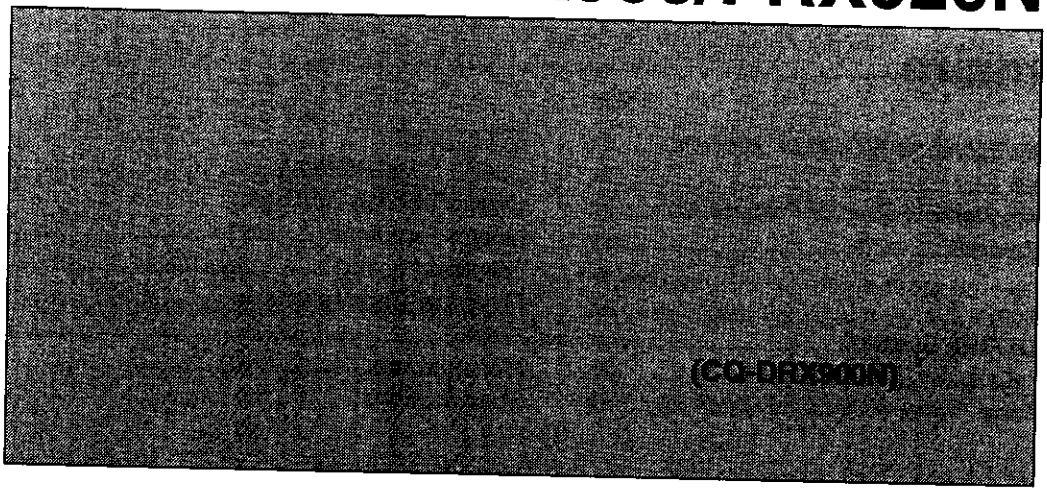
Hochleitsungs-CD-Player/RDS-Receiver mit DSP und Wechslersteuerung

<CQ-FRX920N>

High-Power Cassette Player/RDS Receiver with DSP and Changer Control

Hochleitsungs-Cassettenspieler/RDS mit DSP und Wechslersteuerung

# CQ-DRX900/FRX920N




- Please read these instructions carefully before using this product and save this manual for future use.
- Bitte lesen Sie diese Bedienungsanleitung vor den Verwendung dieses Produktes aufmerksam durch und bewahren Sie sei danach für spätere Nachschlagzwecke sorgfältig auf.
- Prière de lire ces instructions attentivement avant d'utiliser le produit et garder ce manuel pour l'utilisation ultérieure.
- Leest u deze instructie alstublieft zorgvuldig door voor u dit product in gebruik neemt en bewaar deze handleiding voor later gebruik.
- Läs igenom denna bruksanvisning noga innan produkten tas i bruk. Spara bruksanvisningen för framtida behov.
- Si prega di leggere attentamente queste istruzioni prima di usare questo prodotto e di conservare questo manuale per usi futuri.
- Lea con atención estas instrucciones antes de utilizar el producto y guarde este manual para poderlo consultar en el futuro.

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# Precautions (ISO Connector)

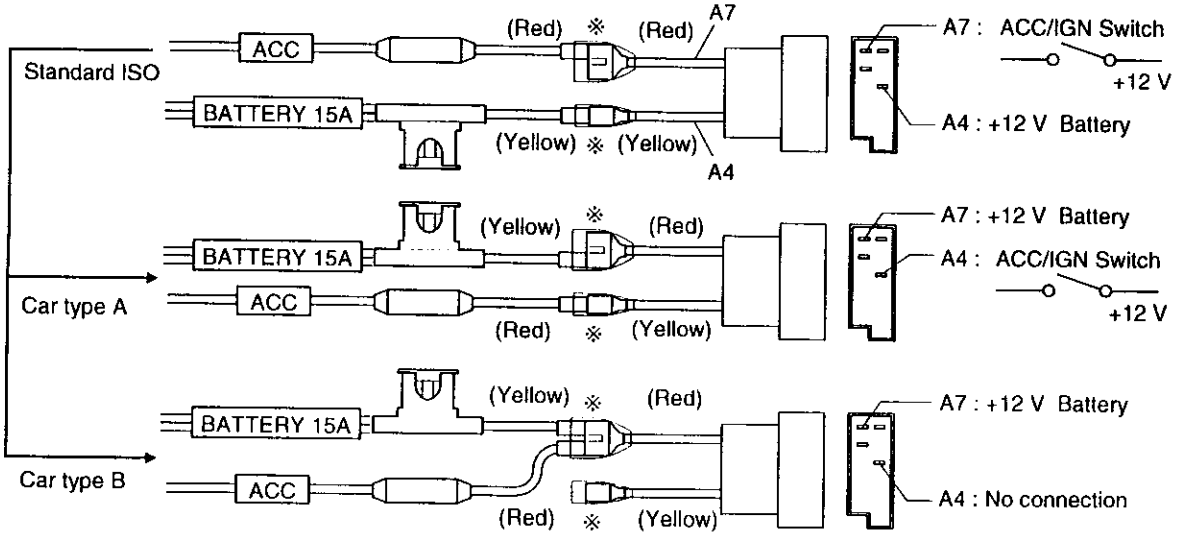
- Wiring for the power connector conforms to the arrangement of standard ISO connectors.
- In case of some car types, the arrangement of connector may differ from the standard ISO as shown in Table 1, even though ISO connectors are adopted.

**Table 1**

| | Fig. 1 Pin No. | |
|---|---|---|
| | A4 | A7 |
| Car for standard ISO | Battery (permanent 12 V supply) | "IGN" or "ACC" (switched 12 V supply) |
| In case of Car type A | "IGN" or "ACC" (switched 12 V supply) | Battery (permanent 12 V supply) |
| In case of Car type B | No connection | Battery (permanent 12 V supply) |

- Make sure the ISO connector arrangement in your car side is as the same as the standard ISO. (Table 1, Fig. 1)
- In case of arrangement for Car type A or B, change connections of the red/yellow leads at the re-connectable joint (※) as shown in Fig.1.

**Fig. 1**




- After fixing the connections, the part (※) should be insulated with electrical tape to keep away from unit damage.

# ISO-Anschlußschema (Wichtiger Hinweis)

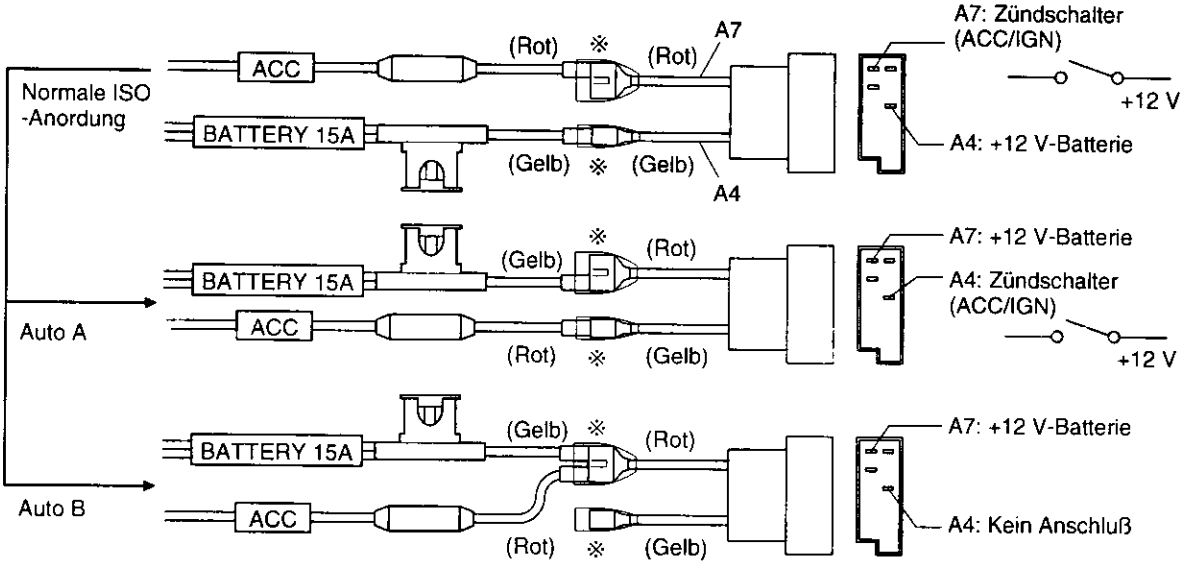
- Die Verdrahtung des Versorgungssteckers entspricht der Anordnung der normalen ISO-Steckverbinder.
- Bei einigen Autotypen kann es vorkommen, daß die Verdrahtung anders als die aus der Tabelle 1 ersichtlichen ISO-Anordnung ist, obwohl ISO-Steckverbinder verwendet

**Tabelle 1**

| | Abb. 1, Stift Nr. | |
|---|---|---|
| | A4 | A7 |
| Auto für normale ISO-Anordnung | Batterie (ständige 12V-Stromversorgung) | "IGN" oder "ACC" (geschaltete 12V-Stromversorung) |
| Beispiel Auto A | "IGN" oder "ACC" (geschaltete 12V-Stromversorgung) | Batterie (ständige 12V-Stromversorgung) |
| Beispiel Auto B | Kein Anschluß | Batterie (ständige 12V-Stromversorgung) |

- Sicherstellen, daß die Anordnung der ISO-Steckverbinder auf der Autoseite die gleiche ist wie die normale ISO-Anordnung (Tabelle 1, Abb. 1).
- Im Falle der Anordnung für Auto A oder B die Anschlüsse der rot/gelben Kabel an den Steckerverbindungen (※) gemäß Abb. 1 ändern.

**Abb. 1**




- Nach der Verkabelung sollte unbedingt der durch (※) gekennzeichnete Teil mit Hilfe von Isolierbändern o.ä. isoliert werden, um des Gerät var Beschädigung zu sdützen.

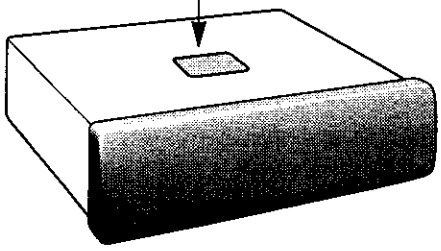
# Precautions

- **Label Indications and Their Locations**
- **Warnetiketten und deren Anbringungsort**
- **Indications portées les étiquettes et emplacement**
- **Aanduiding van de labels en hun plaats**
- **Varningsskyltarna, och deras placering**
- **Indicazioni delle etichette e le loro posizioni**
- **Indicaciones de las etiquetas y su ubicación**

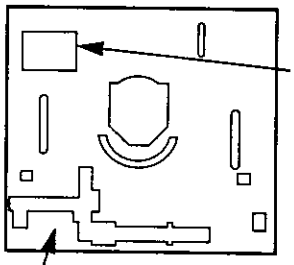
- APPAREIL À LASER DE CLASSE 1
- KLASS 1 LASER APPARAT
- LUOKAN 1 LASERPLAITE

VORSICHT! UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET IST, NICHT DEM LASERSTRAHL AUSSETZEN.

CLASS 1
LASER PRODUCT



**<Only for CQ-DRX900N>**



| |
|---|
| DANGER! Invisible laser radiation when open. Avoid direct exposure to beam. |
| ADVARSEL! Usynligt laserlys udstråles ved åbning. Undgå direkte bestråling. |
| VARO! Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä kasto säteeseen. |
| VARNING! Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. |
| ADVERSEL! Usynlig lasersträling når deksel åpnes og sikkerhedslås brytes. Unngå eksponering for strålen. |

- Caution Mark
- Warnzeichen
- Marque d'avertissement
- Waarschuwingsteken
- Varningsmärke
- Marca di precauzione
- Marka de advertencia

- Deck Ass'y (Upper Side)
- Geräteansicht (Oberseite)
- Assemblage de la table lecture (Côté supérieur)
- Dekkbevestig (Bovenkant)
- Däcksenhet (Topp)
- Gruppo della piastra (Lato superiore)
- Conjunto de la platina (Lado superior)

## ⚠ Caution

### Handle the Batteries Properly.

Improper handling of the batteries can cause their rupture or liquid leakage, possibly resulting in generating heat, ignition, injuries, failure, or pollution.

- Check the positive (+) and negative (-) polarities of the batteries and insert them correctly as specified.
- Do not use other than the specified batteries; do not mix a new battery with an old one; do not use different batteries together.
- Replace the batteries as soon as they have run down.
- Remove the battery from the remote control when you do not use it for a long time.
- Before disposing of or saving batteries, insulate them by winding tape around or placing them in vinyl bags.
- Do not recharge, short, disassemble, deform or heat the batteries. Do not put them in fire or water. Do not place them in contact with metallic objects.
- Do not leave the batteries, or the remote controller with batteries inside, in a closed car, in a car trunk, at a place exposed to direct sunlight, near a heater, or other places where it may become very hot.
- Do not leave the batteries within reach of a baby or an infant. If a baby or an infant swallows a battery, immediately call the doctor.

# Components/Remote Control Preparation

## Components

1. Operating Instruction ..... 1
2. Supplied Hardware ..... 1 set
3. Power Connector ..... 1
4. Remote Control ..... 1
5. Lithium battery (CR2025) ..... 1
6. Warranty Card ..... 1
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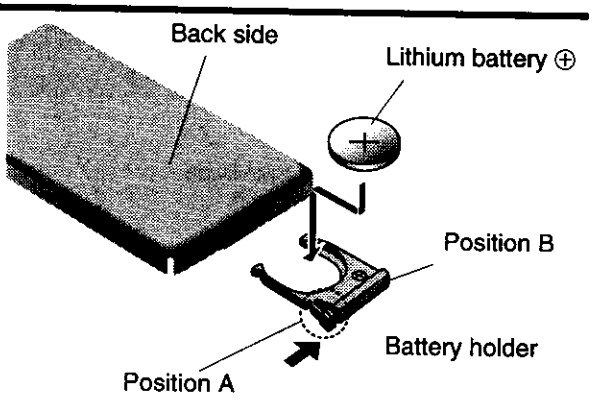
## Remote Control Preparation

### Battery Installation

1. Remove the battery holder.
   Take hold of the holder at position B and pull it out to remove the battery by pushing position A in the direction shown by the arrow.
2. Install the battery.
   Set a new battery properly with its (+) side facing up as shown in the figure.
3. Insert the battery holder.
   Push in the battery holder back into its original position.




### Battery Notes

Remove and dispose of an old battery immediately.
Battery Information:
- Battery type: Panasonic lithium battery (CR2025)
- Battery Life: Approximately 6 months under normal use (at room temperature)

**Caution: Improper use of batteries may cause overheating, an explosion or ignition, resulting in injury or a fire. Battery leakage may damage the unit.**

- Do not disassemble or short the battery. Do not throw a battery into a fire.
- Keep batteries away from children to avoid the risk of accidents.
- Be careful to the disposal rules when you dispose of batteries.

#### Steps in Case of Battery Liquid Leakage

- Wipe the battery case till it is cleaned of the liquid, then insert new batteries into it.
- If the battery liquid is on the body or the clothes, wash it off well.
- If it gets into the eyes, immediately wash the eyes without running them and call the doctor.

# Name of Controls

## Receiver

### Front

Open the Center Speaker

Band Button

Auto Preset Memory Button

Changer ■■ Button

Spectrum Analyzer Button

Power Button

Open Button

Dimmer Button

Source Button

Tilt Button

Panasonic

Center Speaker

Space, Super Base Control Button

Select Button

Preset∧∨ Button

REMOTE (Sensor)

Volume ∧∨ Button

Disc∧∨ Button

Speaker Open/Close Button

Mute/Attenuator Button

Display Button

Clock Button

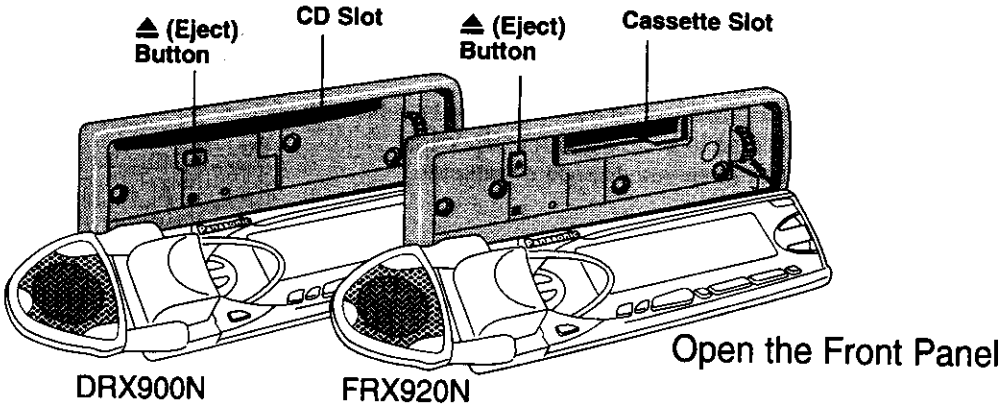
Tune∧∨ Button

Track ▶▶ ◀◀ Button

**Note**

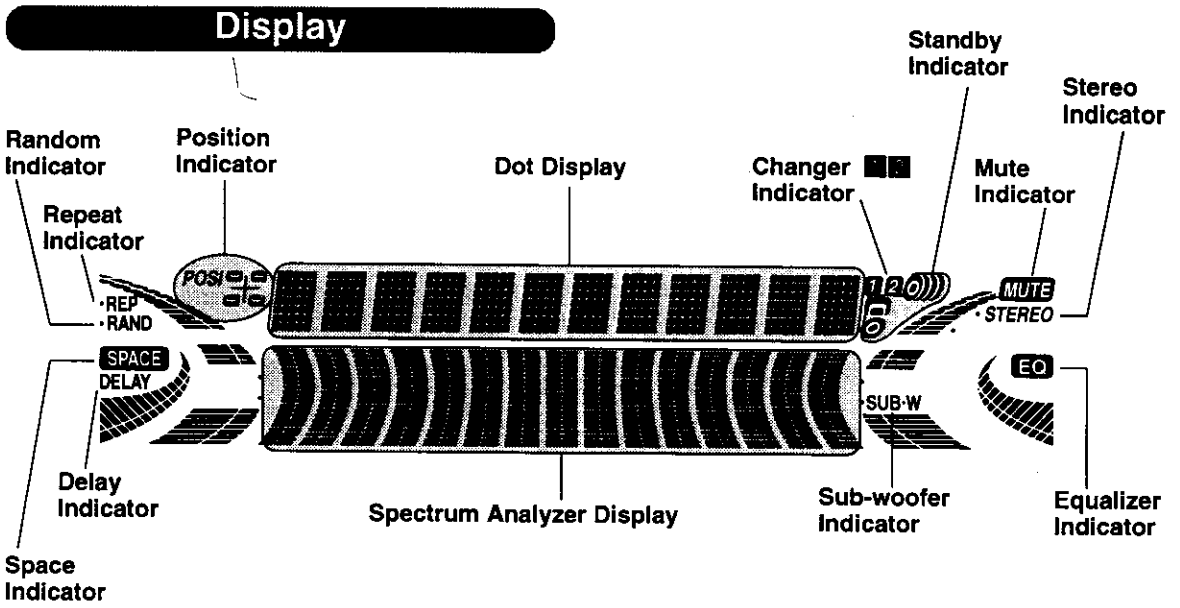
Following buttons are not on the front panel.
For these functions, use the remote control.

**SCAN (Scan), RAND (Random), REP (Repeat) Buttons**



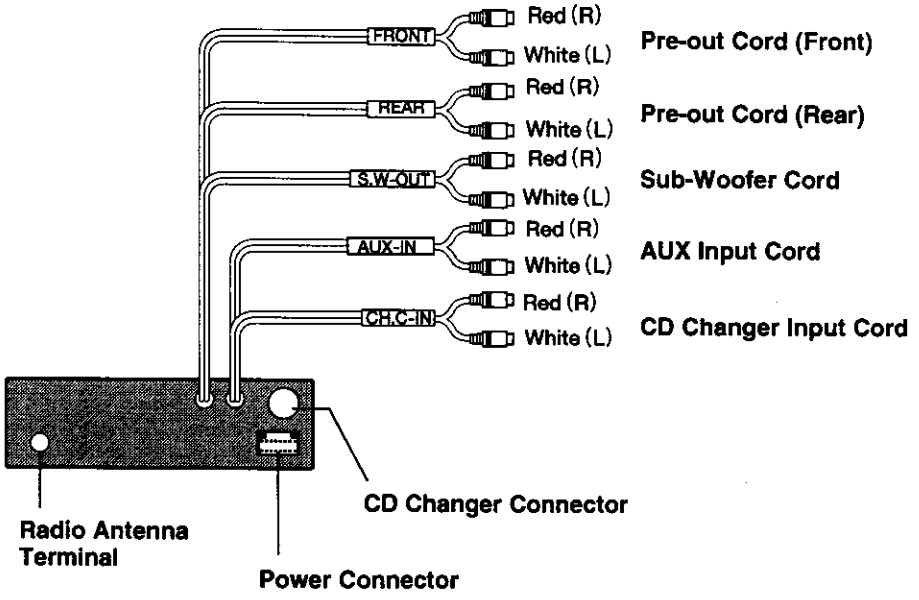

Open the Front Panel

## Display



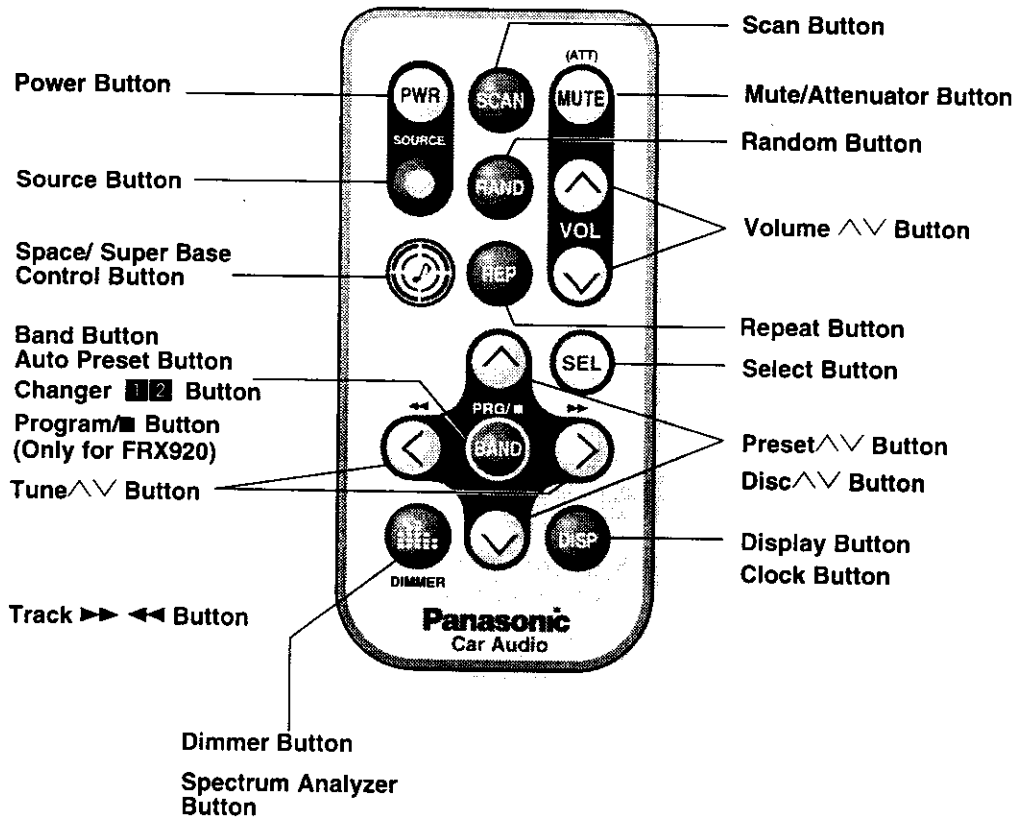

## Rear

**See page 45 to 49 about connections.**



## Remote Control

Aim the remote control at the sensor of your unit.




**Note**

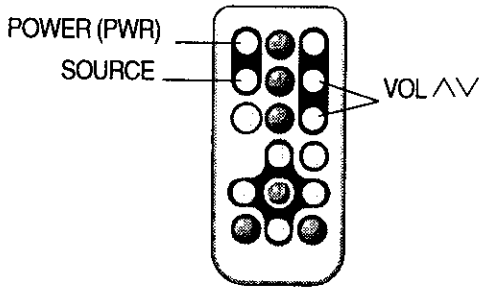
The following buttons are not on the remote control.
For these functions, use the front panel.

**TA, AF, PTY, FUNCTION,**

**Open, Tilt, Speaker Open/Close Buttons**

# General

Before operation, turn the key in the ignition until the accessory indicator lights.




**Warning:**

The driver must not operate the receiver unit. Operating the unit may lead to carelessness and cause an accident. Stop your car in a safe location when operating the unit.

**This manual presents operating instructions mainly in case of using the remote control.**

- **The differences between local operation and remote control are specified in the manual.**
- **If either local operation or remote control only is applicable, it is indicated as below.**

Panel <Front Panel> Remote <Remote Control>

## Power On/Off

Press POWER (PWR).

On the front panel to switch off the power

Press and hold POWER (PWR) for more than 1 second.

**Note**

- When the power is switched on for the first time, a demonstration message is displayed.
- To cancel this display, change the spectrum analyzer display.
  → Press S. A. (See page 38.)

## Volume Level (0 to 40)

VOL ∧ : Increase

VOL ∨ : Decrease

**Note**

The volume level stores in memory deferent from each source mode. Therefore, the volume level changes as you change the source.

## Source Selection

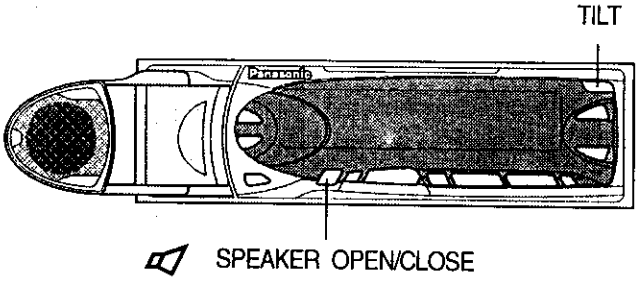
Press SOURCE to change the source mode.

→ Radio
↓
CD (Only for DRX900)
↓
Cassette (Only for FRX920)
↓
CD Changer (Optional CD changer is connected)
↓
AUX in
↓
DAB (Optional DAB Receiver is connected)

**Note**

In the following cases, the source will not be changed.

- No disc is inside.
- The changer is not in the magazine.




**Warning:**
Never put your hand or fingers inside while the front panel is being opened or closed. This is important to avoid injuries.

**Caution:**
Never push or pull the front panel and the center speaker, or expose them to shock while the front panel is being opened or closed.

Panel

## Panel Angle Adjustment

To easy to see the display

Press and hold [TILT (OPEN)] for more than 1 second, then release.

- The angle changes by 3 steps each time the button is pressed and held.

**Note**

- The front panel is automatically set at the angle adjusted before when the power is on.
- The front panel is automatically closed when the power is off.

Panel

## Open the Panel

Press [OPEN]

**To close the panel**

When the panel is opened, press and hold [OPEN] for more than 1 second. ..... The front panel is closed and set the angle adjusted.

press [OPEN]. ..... The front panel is close completely. (Angle is reset.)

**Note**

With no operation for 20 seconds, the panel is automatically closed and set the angle adjusted before.

Panel

## Open the Center Speaker

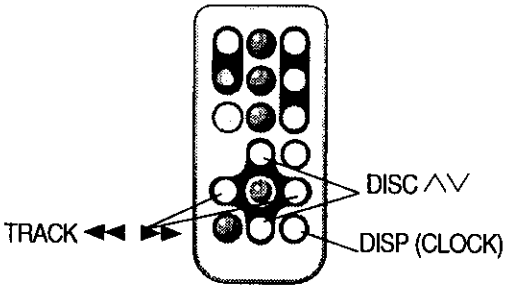
When the center speaker is closed, no sound is heard (except for button sound)

Press [🔊].

- The center speaker is opened or closed each time the button is pressed.

**Note**

- Output level is adjusted by the center speaker output. (See page 30.)
- The center speaker is opened or closed with the panel.
- The center speaker is not opened or closed when the front panel is opened completely.




## Clock set

The clock system is 12-hours.

### ① Clock setting mode

Press and hold [DISP] (CLOCK) for more than 2 seconds.

**Note**

- When the power is off, you can not adjust the clock.
- For the first time, "ADJUST" blinks.

### ② Hour and Minute

[TRACK ◀◀] : Hour adjust mode Hour blinks.

[TRACK ▶▶] : Minute adjust mode Minute blinks.

[DISC ∧] : change forward

[DISC ∨] : change backward

### ③ Set the clock

Press [DISP] (CLOCK).

Clock works.

## Clock Display

Press [DISP] to change.

**While power is on**

**Displays differ from selected source**

Regular display for each source
↓
CD changer text display (Disc Title)
↓
CD changer text display (Track Title)
↓
Dot Spectrum Analyzer (Character display shows the same as on the spectrum analyzer.)
↓
Clock display

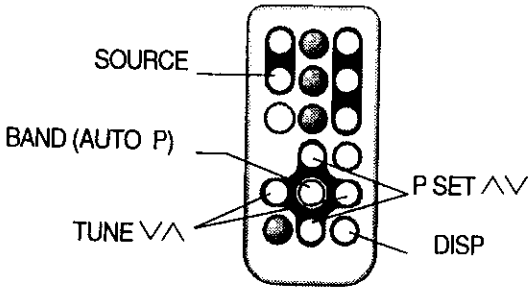
**While power is off**

Clock/Standby display
↓
Clock display only
↓
No display

**Note**

"NO CT" is displayed when clock is not adjusted yet.

# Radio Basic




Press [SOURCE].

## Select [TUNER]

- radio reception

## Band

Press [BAND] to change the band.

FM1 → FM2 → FM3 → AM(MW/LW)

## Select a station

[TUNE ∧] : Higher frequency

[TUNE ∨] : Lower frequency

### Tuning

**Manual Tuning**

Press the button.

- change the frequency by 50 kHz step

**Seek Tuning**

Press and hold the button for 0.5 seconds, then release.

- Seeking will automatically stop when a signal of the next broadcast station is received.

**Note**

- The stereo indicator lights during reception of an FM stereo broadcast.

## Station Preset

### Save a Station Manually

**Manual Station Preset**

A desired station on the receiving band can be preset.

**Select a band,**

① **Change to the preset mode**

Press and hold [P SET ∧] or [P SET ∨] for more than 2seconds.

- **Preset number blinks.**

### Save a Station Automatically

**Auto Station Preset**

Stations in good receiving condition on the receiving band can be automatically preset.

**Select a band,**

Press and hold [BAND (AUTO P)] for more than 2 seconds.

### Call a Preset Station

**Preset Reception**

**Select a band,**

Press [P SET ∧].

Select one of the preset numbers **[1]** to **[6]**.

([P SET ∨] : opposite direction)

## Mono/Local Selection

MONO: Monaural reception, Select MONO to reduce noise when receiving a stereo broadcast.

① Press and hold **[TA]** for more than 2 seconds.
② Press **[SEL]** to change to Local setting mode.
③ Press **[◄◄TRACK]** or **[TRACK►►]** to switch Local mode on or off.

LOCAL: Tunes in strong stations only

① Press and hold **[TA]** for more than 2 seconds.
② Press **[SEL]** to change to Local setting mode.
③ Press **[◄◄TRACK]** or **[TRACK►►]** to switch Local mode on or off.

- Once save stations in the memory, you can tune the stations by pressing buttons.
- FM1, FM2, FM3 and AM (LW/MW) can save maximum 6 stations each in their preset station memories.

**② Select a preset number**

Press [P SET ∧].

([P SET ∨]: opposite direction)

**③ Select a station**

[TUNE ∧]: Higher frequency

[TUNE ∨]: Lower frequency

**④ Save in memory**

Press and hold [P SET ∧] or [P SET ∨] for more than 2 seconds.

- blink the frequency once

- The 6 strongest available stations will be automatically saved in the memory on preset buttons **[1]** to **[6]**.
- Once set, the preset stations are sequentially scanned for 5 seconds each.

To stop the scan,

- press [P SET ∧] to select one of the preset buttons **[1]** to **[6]**.

([P SET ∨]: opposite direction)

- tune in the corresponding preset station at selected band

# Display Change

Press [DISP] to change.

Regular display (Band/Preset/Frequency)

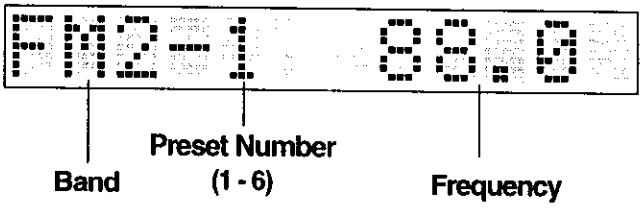
↓

Dot Spectrum Analyzer display

↓

Clock display

**Example) Regular display**



# RDS (Radio Data System) Panel

## RDS Basic

### PS Display

**(Program Service Name)**
The name of station is displayed instead of the frequency.

### CT Service

**(Clock Time)**
When receiving an RDS station, the CT (Clock Time) service automatically adjusts the time and date.
"NO CT" is displayed in areas where CT service is not available.
(➡ Page 13 for Clock Set)

### AF

**(Alternative Frequency)**
When reception is poor, an RDS station broadcasting the same program is tuned in automatically.

### AF Mode

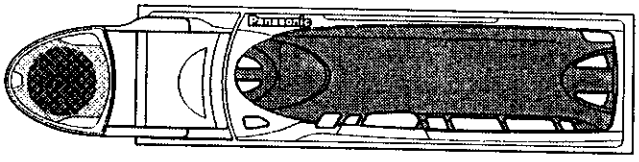
Press **[DIMMER]**(AF) to switch AF mode on or off.

**AF on** ⟷ **AF off**

### RDS Level

① Press and hold **[TA]** for more than 2 seconds.
② Press **[SEL]** to change to RDS level setting mode.
③ Press **[◀◀TRACK]** or **[TRACK▶▶]** to change RDS level.

**Level 1** ⟷ **Level 2**



### Display Change

Press **[DISP]** to change the display as follows.

**PS Display**
↓
**Frequency Display**
↓
**Dot Display**
↓
**Clock Time Display**

### Auto Preset Memory

Auto preset of RDS stations works only when AF mode is on.

**Best Station Research**
Best Station Research is automatically activated to store the station with the best reception for each preset button.

**PI (Program Identification) Seek**
If Best Station Research does not work properly and reception is poor when tuning in a preset station, press the same preset button again. PI Seek will search an AF station with good reception.

### REG (Region) Mode

Changes the selection range of AF, Best Station Research and PI Seek.
① Press and hold **[TA]** for more than 2 seconds.
② Press **[SEL]** to change to REG I mode.
③ Press **[◀◀TRACK]** or **[TRACK ▶▶]** to switch REG on or off.

**REG on**
The frequency is changed only for programs within the region.

⇕

**REG off**
The frequency is changed also for programs outside the region.

# Traffic Announcement

**Some RDS FM stations periodically provide traffic information.**

## TP

**(Traffic Program)**
Broadcasting of traffic information

## TA

**(Traffic Announcement)**
Radio announcements on traffic condition.

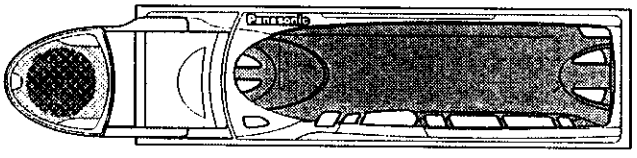
## TA Mode

Press **[TA]** to switch TA mode on or off.

**TA on** ⟷ **TA off**

## TP Auto Search

When reception of a TP station is poor, TP Auto Search will automatically search for a TP station with better reception.



## TA Volume Set
### (Volume Level : 1 to 40)

① Press and hold **[TA]** for more than 2 seconds until "TA VOL" is displayed.
② Press **[∧VOL]** or **[∨VOL]** to adjust the TA volume.

## Muting in TA Mode

To listen only to Traffic Announcements while muting, as follows.

① Adjust the TA volume.
② Press **[∨VOL]** to set the regular volume to 0.

## TA in CD/CD Changer Mode
## TA in Tape/CD Changer Mode

When TA is on, CD (only for CQ-DRX900N), tape (only for CQ-FRX920N), or CD changer playback will be interrupted by FM traffic announcements.

## Seek and Preset Station

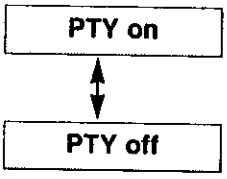
**TP Seek Tuning**
Seek tunes only TP stations. (➡ Page 14)
**Auto TP Station Preset**
The 6 strongest TP stations are saved in memory. (➡ Page 14)
**Tuning in a TP Preset Station** (➡ Page 14)

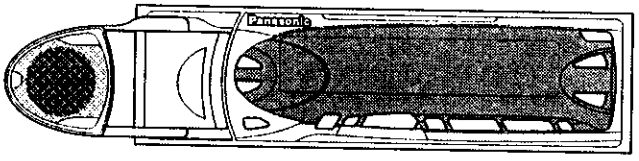
# PTY Reception (Program Type)

RDS FM stations provide a program type identification signal.
Example: news, rock, classical music, etc.

## PTY Mode

Press and hold **[DISP]**(PTY) for more than 2 seconds to switch PTY mode on or off.



## PTY Selection

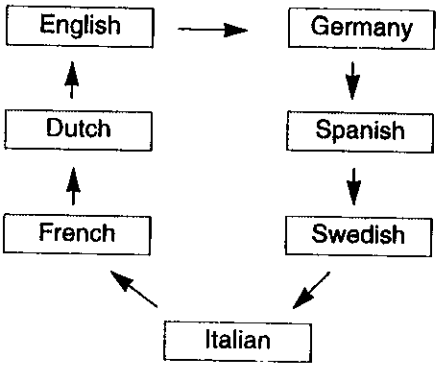
① Press **[◄◄TRACK]** or **[TRACK ►►]** to change the program type as follows.

| | | |
|---|---|---|
| SPEECH → | MUSIC → | NEWS → |
| AFFAIRS → | INFO → | SPORT → |
| EDUCATE → | DRAMA → | CULTURE → |
| SCIENCE → | VARIED → | POP M → |
| ROCK M → | EASY M → | LIGHT M → |
| CLASSICS → | OTHER M → | WEATHER → |
| FINANCE → | CHILDREN → | SOCIAL → |
| RELIGION → | PHONE IN → | TRAVEL → |
| LEISURE → | JAZZ → | COUNTRY → |
| NATION M → | OLDIES → | FOLK M → |
| DOCUMENT → | SPEECH | |

② Select a desired program and press **[BAND]**. Seek will start to tune in to a station broadcasting the selected program type.

## PTY Display Language

Press **[DISP]** to change the PTY display language as follows.




## PTY Search

① Select a program type by pressing the preset button. The preset program type appears on the display for 5 seconds.

② Press **[BAND]** to tune in the desired program type station.

## PTY Preset Change

① Select a program type by using PTY Selection or pressing PTY Preset buttons.

② Press and hold one of the buttons **[1]** to **[6]**.

# PTY Preset

Program types are stored in the memory under preset buttons **[1]** to **[6]** shown in the table below.
To tune in the desired program type, press any of preset buttons **[1]** to **[6]**.

| Preset No. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Program Type | News | Speech | Sport | Pop. Music | Classics | Music |
| Display | NEWS 1 | SPEECH 2 | SPORT 3 | POP M 4 | CLASSICS 5 | MUSIC 6 |
| | NEWS | AFFAIRS<br>INFO<br>EDUCATE<br>DRAMA<br>CULTURES<br>SCIENCE<br>VARIED<br>WEATHER<br>FINANCE<br>CHILDREN<br>SOCIAL A<br>RELIGION<br>PHONE IN<br>TRAVEL<br>LEISURE<br>DOCUMENT | SPORT | POP.M | CLASSICS | ROCK M<br>M.O.R.M<br>LIGHT M<br>OTHER M<br>JAZZ<br>COUNTRY<br>NATIONAL<br>OLDIES<br>FOLK M |

# EON (Enhanced Other Networks)

When EON data is received, the EON indicator lights and the TA and AF functions are expanded as follows.

TA : Traffic information from the current and other network stations can be received.

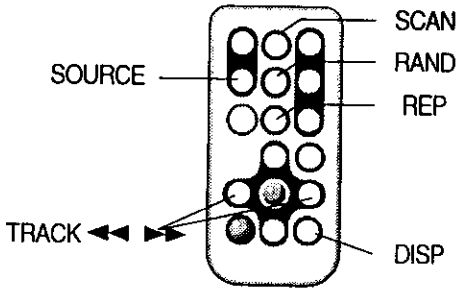
AF : The frequency list of preset RDS stations is updated by EON data.

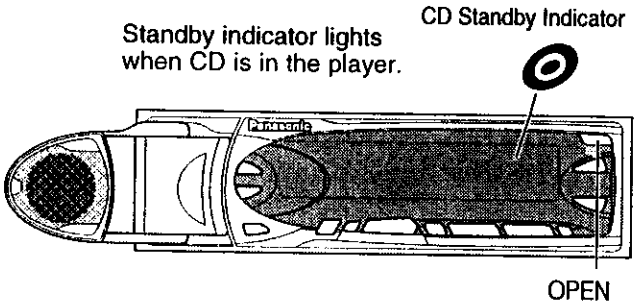
EON enables the radio to make fuller use of RDS information. It constantly updates the AF list of preset stations, including that currently tuned in to. For example, if you preset a station far from home, you will later be able to receive the same station at an alternative frequency, or any other station serving the same program. EON also keeps track of locally available TP stations for quick reception.

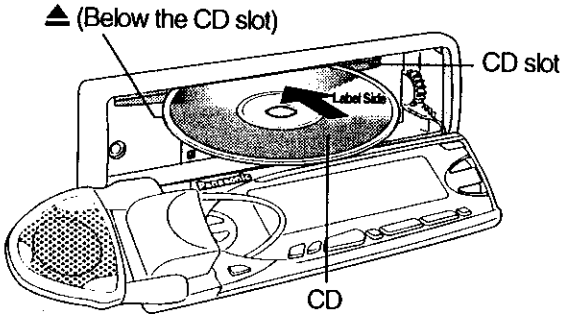
# Emergency Announcement Reception

When an emergency announcement is broadcast, the unit is automatically switched to receiving that broadcast. If this happens in a mode other than radio mode (CD mode, CD Changer mode) or in Muting in TA mode, "ALARM" blinks on the display.

# CD Player (Only for DRX900N)




Press [OPEN] on the front panel to open the front panel.

## Insert a CD

- CD playback start.
- The panel is closed automatically and set at the angle adjusted before.

### To eject the CD

→Press [⏏].

### When CD is in the player

→Press [SOURCE] to select [CD] mode.

- Change to the CD mode, and playback starts.

**Warning:**
Never put your hand or fingers inside while the front panel is being opened or closed. This is important to avoid injuries.

## Track Selection

[TRACK ►►] : go to the next track.
[TRACK ◄◄] : go to the beginning of the track.
: go to the next track.(Press twice.)

## Track Search

[TRACK ►►] : fast forward
[TRACK ◄◄] : fast backward

Press and hold until the desired position is reached, then release.

**Caution:**
Never push or pull the front panel and the center speaker, or expose them to shock while the front panel is being opened or closed.

**Note**

- The power is switched off automatically when CD is ejected during the CD player mode.
- The power is switched on automatically when CD is inserted during the power off.

# Various Ways of Listening

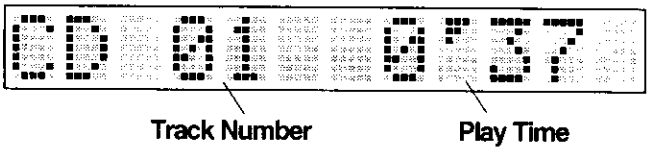
| | | | |
|---|---|---|---|
| Remote **Track Scan** Scan Play | The first 10 seconds of each track on the disc will play in order. | Press [SCAN] on remote control.<br>• The playing time display blinks.<br>• With the scanning of all tracks over, the original program starts playing from the beginning. | To cancel<br>→Press [SCAN]. |
| Remote **Random Selection** Random Play | A random selection of music is played from all available tracks. | Press [RAND] on remote control.<br>• Random indicator lights. | To cancel<br>→Press [RAND]. |
| Remote **Track Repeat** Repeat Play | Repeat the current selection. | Press [REP] on remote control.<br>• Repeat indicator lights. | To cancel<br>→Press [REP]. |

# Display Change

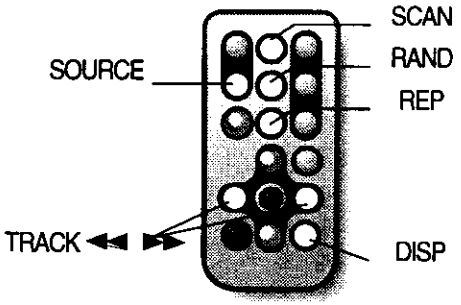
Press [DISP] to change.

Regular display (Track Number/Play Time)
↓
Dot Spectrum Analyzer display
↓
Clock display

**Example) Regular Display**



# Cassette Tape Player (Only for FRX920N)




Press [OPEN] on the front panel to open the front panel.

## Insert a Cassette

- Tape playback start.
- The panel is closed automatically and set at the angle adjusted before.

### To eject the Cassette

→Press [▲].

### When cassette is in the player

→Press [SOURCE] to select [Tape] mode.

- Change to the cassette mode, and playback starts.

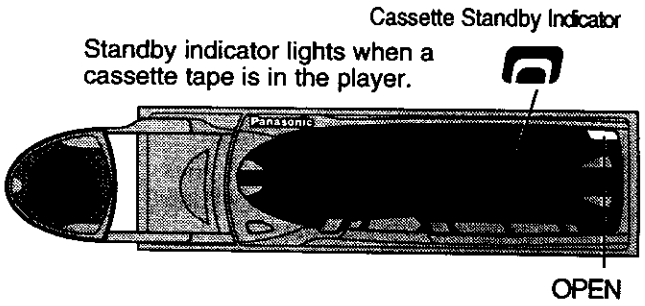
## Fast forward/Rewind

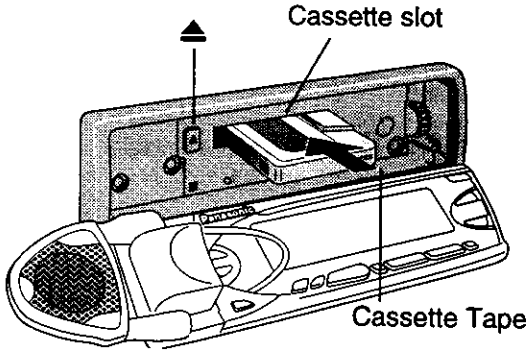
[TRACK ▶▶] : Fast forward

[TRACK ◀◀] : Rewind

[BAND] (PRG/■) : resume the playback

**Warning:**
Never put your hand or fingers inside while the front panel is opening or closing. This is important to avoid injuries.




## Play Side Change

[BAND] (PRG/■) :Reverse the side.

## Dolby Noise Reduction

Press [NR] : Dolby B NR mode

Press [NR] again.
: Dolby C NR mode

Press [NR] again to cancel.

## Metal Tape Mode

[NR] (MTL) : When playing metal or chromium dioxide ($CrO_2$) tapes

**Caution:**
Never push or pull the front panel and the center speaker, or expose them to shock while the front panel is being opened or closed.

**Note**

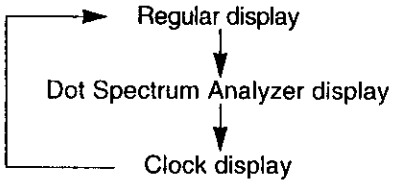
- The power is switched off automatically when cassette is ejected during the cassette tape player mode.
- The power is switched on automatically when cassette is inserted during the power off.

## Various Ways of Listening

| | | | |
|---|---|---|---|
| **Blank Skip** | Skip unrecorded portions longer than 15 seconds on the tape. | Press [B.SKIP].<br>• Blank skip indicator lights. | To cancel<br>→Press [B.SKIP]. |
| Remote<br>**Repeat Play** | Repeat the current selection. | Press [REP] on remote control.<br>• Repeat indicator lights. | To cancel<br>→Press [REP]. |
| **Tape Program Search** | Select a desired program. | Example:<br>To select the next 3rd program,<br>Press [TPS].<br>Press [TRACK ▶▶] three times. | To cancel<br>→Press [TPS]. |

## Display Change

Press [DISP] to change.

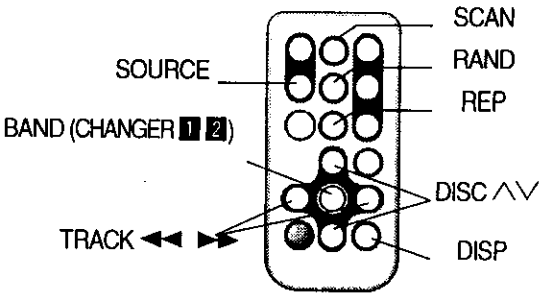



**Example) Regular Display**

**TAPE PLAY**

# CD Changer

DAB (Digital Audio Broadcasting) can be connected to this unit by using CD changer function.
For details, see operating instructions of DAB receiver.




Press [SOURCE]

to select [CHANGER].

- Playback starts.

**Note**

When no disc in the magazine, "NO DISC" is displayed.

## Disc Selection

[DISC ∧] : Next disc

[DISC ∨] : Previous disc

## Track Selection

[TRACK ▶▶] : go to the next track.

[TRACK ◀◀] : go to the beginning of the track.

: go to the previoust track.(Press twice.)

## Track Search

[TRACK ▶▶] : fast forward

[TRACK ◀◀] : fast backward

Press and hold until the desired position is reached, then release.

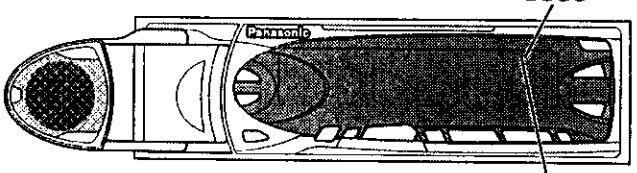
**Note**

When a magazine is loaded into the CD changer,

- The power is switched on automatically if the power is switched off, and CD changer mode is selected.
- During other source mode, CD changer mode is selected.

CD Changer Standby Indicator

Standby indicator lights when a magazine is inserted in CD changer.

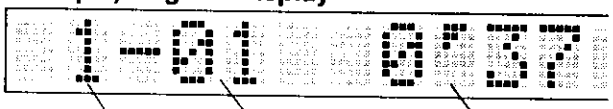


When using dual CD changer, current select changer number is displayed.

Changer Number Display

1 or 2

**Example) Regular Display**



Disc Number  Track Number  Play Time

## Various Ways of Listening

**Scan**

Remote

**Track Scan**

Scan Play

**Disc Scan**

Disc Scan Play

**Random**

Remote

**Track Random**

Random Play

**Disc Random**

Disc Random Play

**Repeat**

Remote

**Track Repeat**

Repeat Play

**Disc Repeat**

Disc Repeat Play

The CD changer functions are designed for an optional CD changer unit.
When the unit is connected with a CD text recognizable CD changer (CX-DP9061EN, for example), CD text can be displayed.

## Dual CD changer

**An optional dual CD changer control unit (CA-LA9) is necessary.**

Press [BAND (CHANGER 1 2)].

CHANGER 1 ←——→ CHANGER 2

**Caution:**
Connect to Changer 1 when only one CD changer is connected.

## CD Text Display

Disc title, track title, etc. are displayed when a CD which supports the text display is loaded.

Press [DISP] to change.

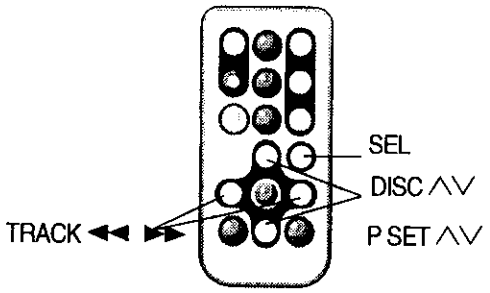
Regular display (Disc/Track/Play Time)
↓
CD Text display (Disc Title)
↓
CD Text display (Track Title)
↓
Dot Spectrum Analyzer display
↓
Clock display
↑

**Note**

- "NO TITLE" is displayed if a disc which does not support the text display has been loaded.
- Title display scroll can be switched on or off. (See page 35.)
- When the title display scroll is switched off, you can scroll only one time.
  → Press and hold [DISP] for more than 2 seconds.

| | | |
|---|---|---|
| The first 10 seconds of each track on the discs play in sequence. | Press [SCAN] on remote control.<br>• The playing time display blinks.<br>• With the scanning of all tracks over, the original program starts playing from the beginning. | To cancel<br>→Press [SCAN]. |
| The 1st track of all the discs in the magazine is played for 10 seconds each. | Press and hold [SCAN] for more than 2 seconds.<br>• The disc number display blinks.<br>• With the scanning of all discs over, the original disc starts playing from the beginning. | To cancel<br>→Press and hold [SCAN] for 2 seconds. |
| All the available tracks on all discs in the magazine will be played in a random sequence. | Press [RAND] on remote control.<br>• Random indicator lights. | To cancel<br>→Press [RAND]. |
| All the available tracks on the current disc will be played in a random sequence. | Press and hold [RAND] for more than 2 seconds.<br>• Random indicator blinks. | To cancel<br>→Press and hold [RAND] for 2 seconds. |
| Repeat the current selection. | Press [REP] on remote control.<br>• Repeat indicator lights. | To cancel<br>→Press [REP]. |
| Repeat the current disc selection. | Press and hold [REP] for more than 2 seconds.<br>• Repeat indicator blinks. | To cancel<br>→Press and hold [REP] for 2 seconds. |

# Sound Space Setting

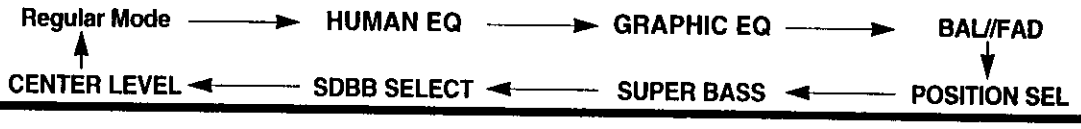



## 1 Select an Item

Press [SEL] to select an item.

| | | |
|---|---|---|
| **Select a tone quality to suit your feeling**<br>HEQ (Human Equalizer) | You can select a tone quality suiting with your feeling among 49 patterns.<br><br>Default : FLAT (0)<br>Level : 3 steps each (49 patterns) | Select [HUMAN EQ]. |
| **Set your favorite tone quality in preset memory**<br>GEQ (Graphic Equalizer) | The level in each of the seven frequency bands from bass to treble can be adjusted.<br>Up to five kinds of adjusted tone quality can be stored in the memory.<br><br>Default : 0 (each frequency)<br>Level : −12 to +12 by 2dB | Select [GRAPHIC EQ]. |

Press [SEL] to change the sound space setting item as follows.



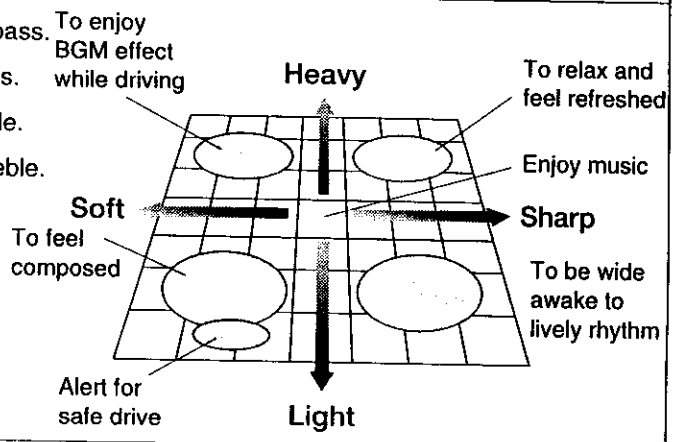

# 2 Set

**Note**

The display will be back to regular operation mode with no operation for 10 seconds.

[DISC ∧] (HEAVY) : Changes to heavy bass.
[DISC ∨] (LIGHT) : Changes to light bass.
[TRACK ◀◀] (SOFT) : Changes to soft treble.
[TRACK ▶▶] (SHARP) : Changes to sharp treble.

- EQ indicator blinks during adjusting.




Press [P SET ∧] to select a preset number 1-5.
( [P SET ∨] : opposite direction)

- recall the tone quality in the memory

## To store in memory

**Select one of the preset memory 1-5.**

① Press [SEL] and hold for more than 2 seconds to change to GEQ preset mode.

② Adjust the level for each frequency

Press [TRACK ▶▶] to select a frequency.
( [TRACK ◀◀] : opposite direction)

80 → 160 → 320 → 640 → 1.6 k → 4 k → 10 k (Hz)

[DISC ∧] : Level up
[DISC ∨] : Level down

EQ indicator blinks during adjusting.

③ Press [SEL] to store in memory.

- The EQ indicator lights when the selection is stored.

## To recall the recommended setting

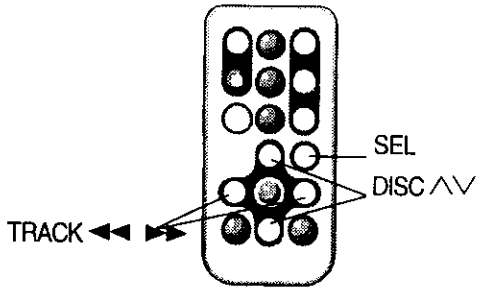
A tone quality easy to listen to without muffled bass can be easily called back.

Press [P SET ∧]
to select preset number 6.
( [P SET ∨] : opposite direction)

**Note**

You can not store your tone setting to preset number 6.

# Sound Space Setting (continued)




## 1 Select an Item

Press [SEL] to select an item.

| | | |
|---|---|---|
| **Balance and Fader Adjustment**<br>Balance / Fader | Adjust the balance of speaker sound volume.<br><br>Default : B : CNT (center)<br>F : CNT (center)<br>Level : 15 each | Press [BAL//FAD]. |
| **Suit Sound with Listening Position**<br>Position | Adjust to suit the sound image with listener position.<br><br>Default : POSI OFF | Press [POSITION SEL]. |
| **Use Rear Speaker as a Sub-Woofer**<br>SBC-SW (Super Base Control Sub-Woofer) | The rear speaker connected to the built-in amplifier can be used as a subwoofer to output bass only.<br><br>Default : SBC-SW OFF | Press [SUPER BASS]. |
| **Bass Emphasis**<br>SDBB (Super Dynamic Bass Burst) | Enhance the bass from 4 speakers. Enjoy heavy bass sound. This function effects pre-out (rear/front), too.<br><br>Default : SDBB OFF | Press [SDBB SELECT]. |

Press [SEL] to change the sound space setting item as follows.

Regular Mode → HUMAN EQ → GRAPHIC EQ → BAL/FAD → POSITION SEL → SUPER BASS → SDBB SELECT → CENTER LEVEL → Regular Mode

# 2 Set

**Note**

The display will be back to regular operation mode with no operation for 10 seconds.

[DISC ∧] (FRONT) : Enhance the front sound

[DISC ∨] (REAR) : Enhance the rear sound

[TRACK ◀◀] (LEFT) : Enhance the left sound

[TRACK ▶▶] (RIGHT) : Enhance the right sound

Press [TRACK ▶▶] to change. ( [TRACK ◀◀] : opposite direction)

OFF . . . . . All seats
↓
RIGHT . . . . . Front right
↓
LEFT . . . . . Front left
↓
FRONT . . . . Front seats
↓
REAR . . . . . Rear seats

- POSI indicator lights when position is set.

[TRACK ◀◀] (SBC-SW OFF) : Regularly output (Stereo)

[TRACK ▶▶] (SBC-SW ON) : Output only bass level (Monaural)

**When SBC-SW is set to ON**

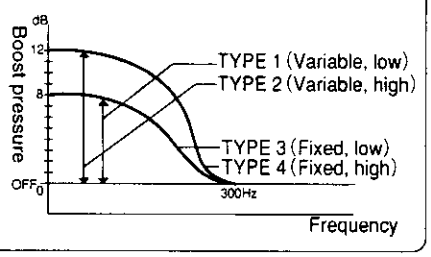
- Adjust the subwoofer output level. (See page 32. The preout (rear) level is also adjusted accordingly.
- BAL/FAD, POSITION, SDBB and SPACE settings for rear speaker output will be invalid.

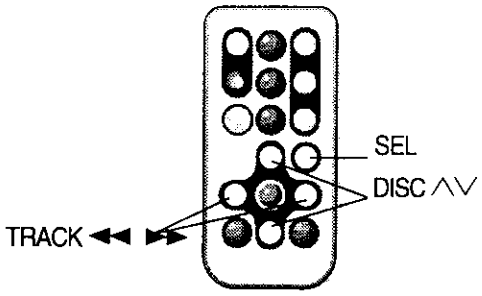
Press [TRACK ▶▶] to change. ( [TRACK ◀◀] : opposite direction)

SDBB OFF . . . . . .Output regularly
(Do not enhance bass level.)
↓
SDBB TYPE 1 . . .Variable, low
↓
SDBB TYPE 2 . . .Variable, high
↓
SDBB TYPE 3 . . .Fixed, low
↓
SDBB TYPE 4 . . .Fixed, high

Variable :
Bass is enhanced with the volume. A well-balanced bass is obtained.

Fixed :
Bass is enhanced at the set width. A dynamic bass is obtained.






## 1 Select an item

① Press [SEL] to select [CENTER LEVEL].

### Clarify Mid Sound

**Center Speaker Output**

Sound image is raised to stay near the center forward.

#### Adjustment Order

Open the center speaker.(See page 12.)

1. Adjust the center speaker volume.
   Set the center speaker delay time 0 and SPACE OFF.
   Then adjust mid sound to the front position in listening.
2. Adjust the sound space setting and center speaker delay time.
3. Adjust the center speaker volume again.
   Adjust the volume to suit with the sound space setting.

### Adjust Volume

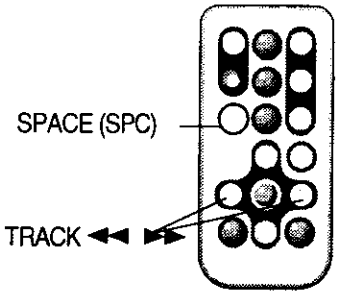
**Center Speaker Volume Level**

Default : SP - LEVEL 0
Range : -∞, -10 to 10
by 2dB

### Adjust Sense of Distance

**Center Speaker Delay Time**

This adjustment produces a difference in time (delay) for the center speaker sound to reach the ears so that the sound image will be localized near the center forward.
Default : SP - DELAY 0
Range : -10 to +10
by 0.3 ms



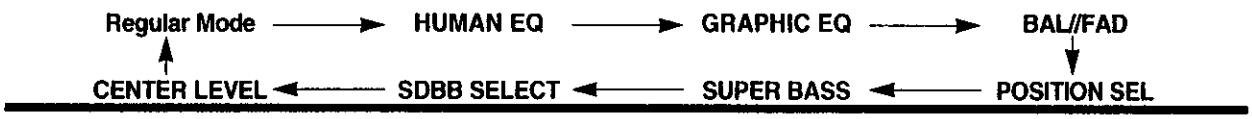

### Represent Sound Space

**Space**

Represent a sound space as you are in a concert hall.

Default : SPACE OFF

**Press [SEL] to change the sound space setting item as follows.**




## 2 Set

② Change to selected item mode.

[TRACK ▶▶] (SP - LEVEL) : Adjust volume level

[TRACK ◀◀] (SP - DELAY) : Adjust Sense of Distance

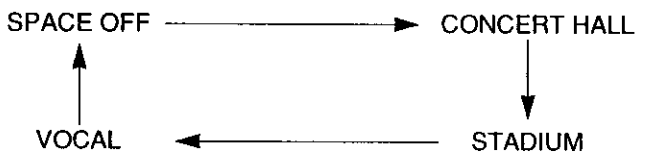
**Note**

The display will be back to regular operation mode with no operation for 10 seconds.

| | |
|---|---|
| Select [CENTER LEVEL]. | [DISC ∧] : Up<br>[DISC ∨] : Down<br>-∞ : No sound from the center speaker |
| Select [CENTER DELAY]. | [DISC ∧] : Increase time<br>Delay time became longer, and sound image becomes far away.<br>(Timing of center speaker output becomes delay.)<br>[DISC ∨] : Decrease time<br>Delay time became shorter, and sound image becomes close.<br>(Timing of center speaker output becomes fast.)<br>0 : Center speaker sound and other speaker sounds output at the same time. |

① Press [SPACE (SPC)] to change to the space mode.

② Press [TRACK ▶▶] to change. ( [TRACK ◀◀] : opposite direction)




- SPACE indicator blinks during adjusting.

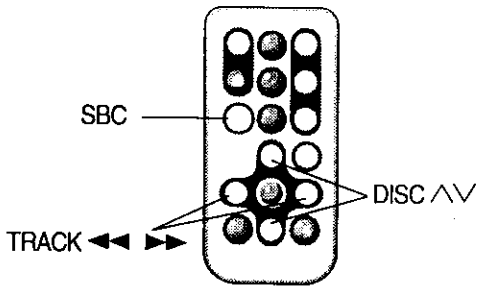
**Note**

[SPACE (SPC)] button on the front panel is hidden by the center.

- Press [◁] to open the center speaker.

- The display will be back to regular operation mode with no operation for 10 seconds.
- Sound space is set in different for each source mode (FM, AM, CD changer, etc).

**Sub-Woofer Output Adjustment is available only when using rear speakers as Sub-Woofer. (See page 28 : Set SBC-SW ON)**




## 1 Change to Sub-Woofer Output mode

Press [ SBC ] and hold for more than 2 seconds.

### Sub-Woofer Output Adjustment

**DDBC (Digital Dynamic Base Control)**

- Sub-woofer output level is not effected by Fader adjustment. (See page 28.)
- SUBW indicator blinks during adjustment and light after the setting ends.

**Sub-woofer output adjustment affects following outputs.**

- Using rear speaker as Sub-woofer (SBC-SW is on.)
- Pre-out (rear)

### Adjust the volume

**DDBC Volume Level**

Default : SW - LEVEL 0
Range : -∞, -10 to +10
by 2dB step

### Adjust sense of distance

**DDBC Delay Time**

This adjustment eliminates the difference in time (delay) between the speakers and subwoofer in reaching the ears to reproduce a dynamic heavy bass.
Default : SW - DELAY 0
Range : -10 to -10
by 0.3 ms (0.0003 seconds)

### Adjust Bass Quality

**DDBC Cut off Frequency**

Set upper limits of an output bass frequency (cutoff frequency) to prevent sound unclarity and distortion.
Default : FREQ. OFF

**Note**

SBC button on the front panel is hidden by the center speaker.

→ Press [speaker] to open the center speaker.

- The display will be back to regular operation mode with no operation for 10 seconds.

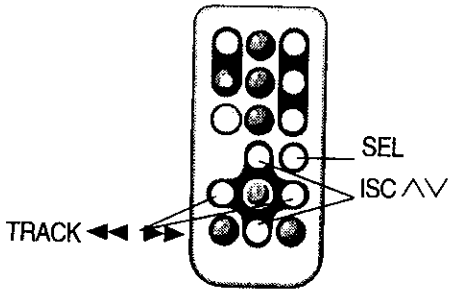
## 2 Select an Item

## 3 Adjustment

Press TRACK ▶▶ to select an item.
(TRACK ◀◀ : opposite direction)

| | |
|---|---|
| Select DDBC LEVEL. | DISC ∧ : Up<br>DISC ∨ : Down<br>-∞ : No sound is set on amplifier which is connected to pre-out. |
| Select DDBC DELAY. | DISC ∧ : Increase time<br>Delay time became longer.<br>(Timing of Sub-Woofer output becomes delay.)<br>DISC ∨ : Decrease time<br>Delay time became shorter.<br>(Timing of Sub-Woofer output becomes fast.)<br>0 : Sub-woofer sound and other speaker sounds output at the same time.<br>• DELAY indicator blinks during adjustment and light after the setting ends. |
| Select FREQ. SELECT. | Press DISC ∧ to change. ( DISC ∨ : opposite direction)<br>OFF → 100 → 150 (Hz)<br>OFF : Outputs regularly. Not cut high frequencies. |

# Other Function Settings




## 1 Select an Item

① Press and hold [SEL] for more than 2 seconds to change to the function control mode.

② Press [SEL] to select item.

| | | |
|---|---|---|
| **Button Sound**<br>Signal Sound / Beep Sound | Beep sounds from center speaker. Select beep type and adjust sound level.<br><br>Default : SIGNAL SOUND<br>SIGNAL LEV3 | Select [SIGNAL SEL]. |
| **Muting in Navigation Voice Guide**<br>Navi Mute<br>This function is available only when optional navigation unit (CN-DV2000 EN) is connected to this unit. | Select the volume level of this unit when navigation guide is on.<br><br>Default : MUTING ON | Select [MUTING SEL]. |
| **Change Speed of Spectrum Analyzer**<br>Spectrum Analyzer Speed | Select speed of spectrum analyzer display.<br><br>Default : SPEANA FAST | Select [SPEANA SPEED]. |
| **Mute or Attenuator**<br>Mute Setting | Select mute or attenuator which function is activate when MUTE button is pressed.<br><br>Default : MUTE KEY | Select [MUTE KEY SEL]. |
| **Title Scroll Display**<br>Title Scroll | CD text can display in scroll or not scrolling.<br><br>Default : SCROLL ON | Select [TITLE SCROLL]. |

Press [SEL] to change the sound space setting item as follows.

SIGNAL SEL → MUTING SEL → SPEANA SPEED → MUTE KEY SEL → TITLE SCROLL → CONTRAST SEL → AUX IN SET → S-LED SEL → TILT SELECT → ACC SELECT → RDS TEST SEL → SIGNAL SEL

# 2 Set

Press [TRACK ▶▶] to change. ([TRACK ◀◀] : opposite direction)

**Note**
The display will be back to regular operation mode with no operation for 10 seconds.

Beep type

- SIGNAL SOUND . . . .Different sound in operations.
- SIGNAL BEEP 1
- SIGNAL BEEP 2
- SIGNAL BEEP 3
- SIGNAL OFF . . . . . .No sound when in operation.

**Adjust beep volume level**

[DISC ∧] : Up

[DISC ∨] : Down

(Range : LEV1 to LEV3)

**Note**
When signal sound mode, opening sound and ending sound are activate only.

- MUTING ON . . . . .Mute the sound of this unit when navigation voice guide is on.
- MUTING HALF . . .Sound of this unit decreases to 1/2 when navigation voice guide is on.
- MUTING OFF . . . .Sound level is not changed even when navigation voice guide is on.

● "MUTING ***" is displayed when navigation voice guide is on. The display means Navi mute.

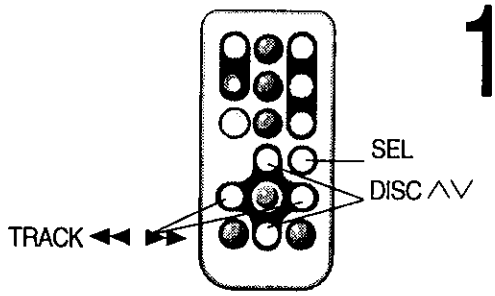
- SPEANA FAST . . . .Speed up
- SPEANA SLOW . . .Speed down

- MUTE KEY . . . . .Mute (no sound) is activated when MUTE button is pressed.
- ATT KEY . . . . .Attenuator (decrease volume) is activated when MUTE button is pressed.

- SCROLL ON . . . . .Scroll continuously.
- SCROLL OFF . . . .Scroll one time and stop the scrolling.

**Note**
When scroll is stoped, display can be scrolled again one more time.

- Press and hold [DISP] for 2 seconds.




## 1 Select an Item

① Press and hold [SEL] for more than 2 seconds to change to function control mode.

② Press [SEL] to select item.

| | | |
|---|---|---|
| | | |
| **Contrast Adjustment**<br>Contrast | Adjust the display contrast. (5 level)<br><br>Default : CONTRAST Lv 3<br>Range : Lv 1 to Lv 5 | Select [CONTRAST SEL]. |
| **Tilt On/Off**<br>Tilt Setting | Select panel angle adjustable or unadjustable.<br><br>Default : TILT ON | Select [TILT SELECT]. |

Press [SEL] to change the sound space setting item as follows.

SIGNAL SEL → MUTING SEL → SPEANA SPEED → MUTE KEY SEL → TITLE SCROLL → CONTRAST SEL → AUX IN SET → S-LED SEL → TILT SELECT → ACC SELECT → RDS TEST SEL → SIGNAL SEL

## 2 Set

**Note**
The display will be back to regular operation mode with no operation for 10 seconds.

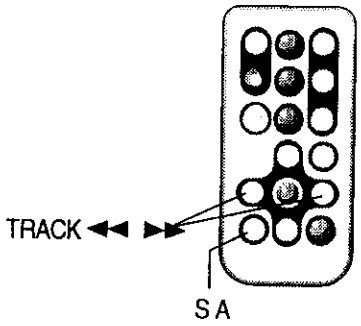
Press [TRACK ▶▶] to change. ([TRACK ◀◀] : opposite direction)

[TRACK ▶▶] : Up
[TRACK ◀◀] : Down

The higher the level, the sharper will be the contrast.

→ TILT ON . . . . . .Enable to adjust the panel angle
↓
TILT OFF . . . . . .Disable to adjust the panel angle

# Useful Functions




## Change the Spectrum Analyzer Display

(12Type)

(Default : Demo)

① Press [SA] to change to spectrum analyzer mode.

- "SPEANA SEL" is displayed.

② Press [TRACK►►] to change.

([TRACK◄◄] : opposite direction)

1. DEMO
2. WAVE
3. AURORA
4. MILKY WAY
5. TWINKLE STAR
6. SUN
7. SPC SARGASSO
8. PROMINENCE
9. METEOR
10. SPACE FEVER
11. BLANK SPEANA
12. ALL DISP OFF

**Note**

[SA] button on the front panel is hidden by the center speaker.

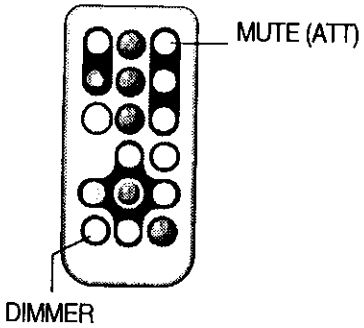
→ Press [◁] to open the center speaker.

- The display will be back to regular operation mode with no operation for 10 seconds.
- Dot spectrum analyzer display can not be changed.

.....Demonstrate all kind of Spectrum Analyzer in order

.....Do not display spectrum analyzer.

.....No display completely
Light display for 5 seconds only when some operation takes place, and turn the display off.




**Note**

DIMMER button on the front panel is hidden by the center speaker.

→ Press [ ] to open the center speaker.

## Lighten or Darken Display

**Dimmer**

Display brightness with side-maker lamps on or off can be set.

Default :
DIMMER LEV2 : at side-maker lamp on
DIMMER LEV3 : at side-maker lamp off
Range : LEV1 to LEV3

① Press and hold DIMMER to change to the dimmer mode.
- "DIMMER SEL" is displayed.

② Press DIMMER to change.

**When using front panel operation, press DIMMER.**

DIMMER LEV3 . . . .Brighter
↓
DIMMER LEV2 . . . .Center
↓
DIMMER LEV1 . . . .Darker

Remote

## Mute/Attenuator

**Mute / Attenuator**

Press MUTE (ATT) to mute or decrease the sound volume.

**Mute is different from Attenuator in decrease the sound level.**

Default : MUTE OFF

Press MUTE (ATT).

- Press the button to change as follows.
- "MUTE" indicator lights when mute or attenuator is on.

**Mute setting**

MUTE OFF . . .Regular sound volume
↕
MUTE ON . . .No sound (0)

**Att setting**

ATT OFF . . . .Regular sound volume
↕
ATT ON . . . . .Decrease to 1/10 level

## Enjoy changing panel color by using Black Light

**Note**

Black light is option.
When exposed to the black light, the panel appears in relief in sharp deep blue.

**Caution:**

To mount the black light, keep it more than 20 cm away from the unit. If it is mounted closer than that, it may cause noise in radio reception or operation errors.

## Care of the Unit

### Cleaning this unit

- Use a dry, soft cloth to wipe.

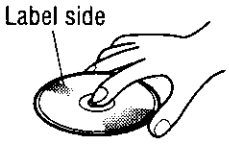
### Caution on cleaning

Never use solvents such as benzine, thinner as they may mar the surface of the unit.

## Notes on CD

**ONLY USE DISCS CARRYING THE LABEL** COMPACT disc DIGITAL AUDIO

**How to hold the CD**

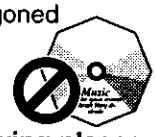



- Do not touch the underside of the disc.
- Do not make scratches on the disc.
- Do not bend disc.
- When not in use, keep CD in the case.

**Do not use irregularly shaped CDs**

Heart-shaped

Octagoned



**Do not leave discs in the following places:**

- Direct sunlight
- Near car heaters
- Dirty, dusty and damp areas
- Seats and dashboards

**Disc Cleaning**

Use a dry, soft cloth to wipe from the center outward.

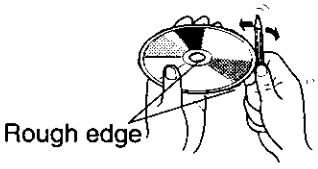
<Right>

<Wrong>

**Caution on New Discs**

A new disc may have rough edges on its inner and outer perimeter. These may cause malfunction.

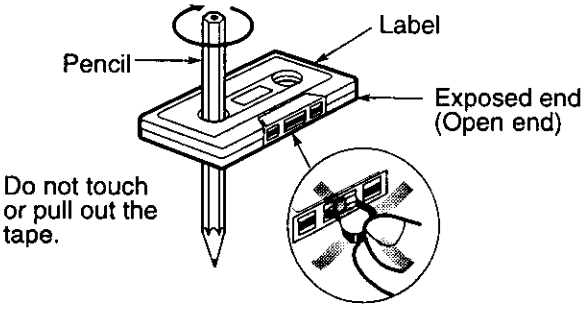
Remove the rough edges using a pencil, etc.



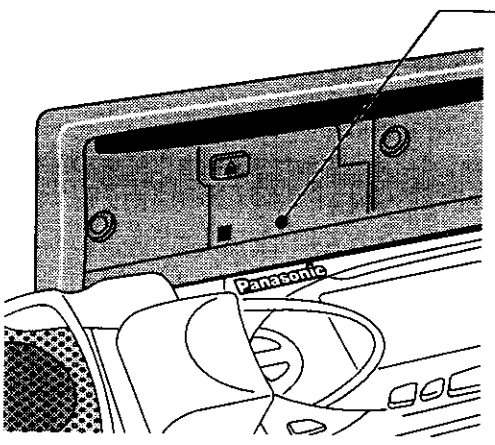

## Notes on Cassette Tape

**Tape Slack:**

Use a pencil or similar object to take up the slack as shown. If a loose tape is used, this may result in the tape becoming tangled in the rotating parts of the unit.



## Abnormal Operation




Reset switch
Insert a hard pin into the hole and push the switch.

- The unit returns to the default state when the trouble is reset. Remember, the data and settings stored in the memory are deleted.

**Important**

Push the switch only when the unit fails to operate with any buttons.
If the panel cannot be opened, or if the unit fails to return to normal condition, call the nearest service station and ask for repairs.

# ISO Connector

### A4

**Battery Lead** (Yellow)
To the car battery, continuous +12V DC

### A5

**Motor Antenna Relay Control Lead** (Dark blue)
(To Motor Antenna) (Max. 500 mA)
This lead is not intended for use with switch actuated power antenna.
**Amp. Relay Control Power Lead** (Dark blue)
This lead is for connection to Panasonic power amplifier.

### A7

**Power Lead (ACC or IGN)** (Red)
To ACC power, +12V DC

### A8

**Ground Lead** (Black)
To a clean, bare metallic part of the car chassis

### Loudspeakers (Connector Ⓑ : B1 – B8)

| | Left + | Left – | Right + | Right – |
|---|---|---|---|---|
| Front | B5 (White) | B6 (White w/black stripe) | B3 (Gray) | B4 (Gray w/black stripe) |
| Rear | B7 (Green) | B8 (Green w/black stripe) | B1 (Violet) | B2 (Violet w/black stripe) |

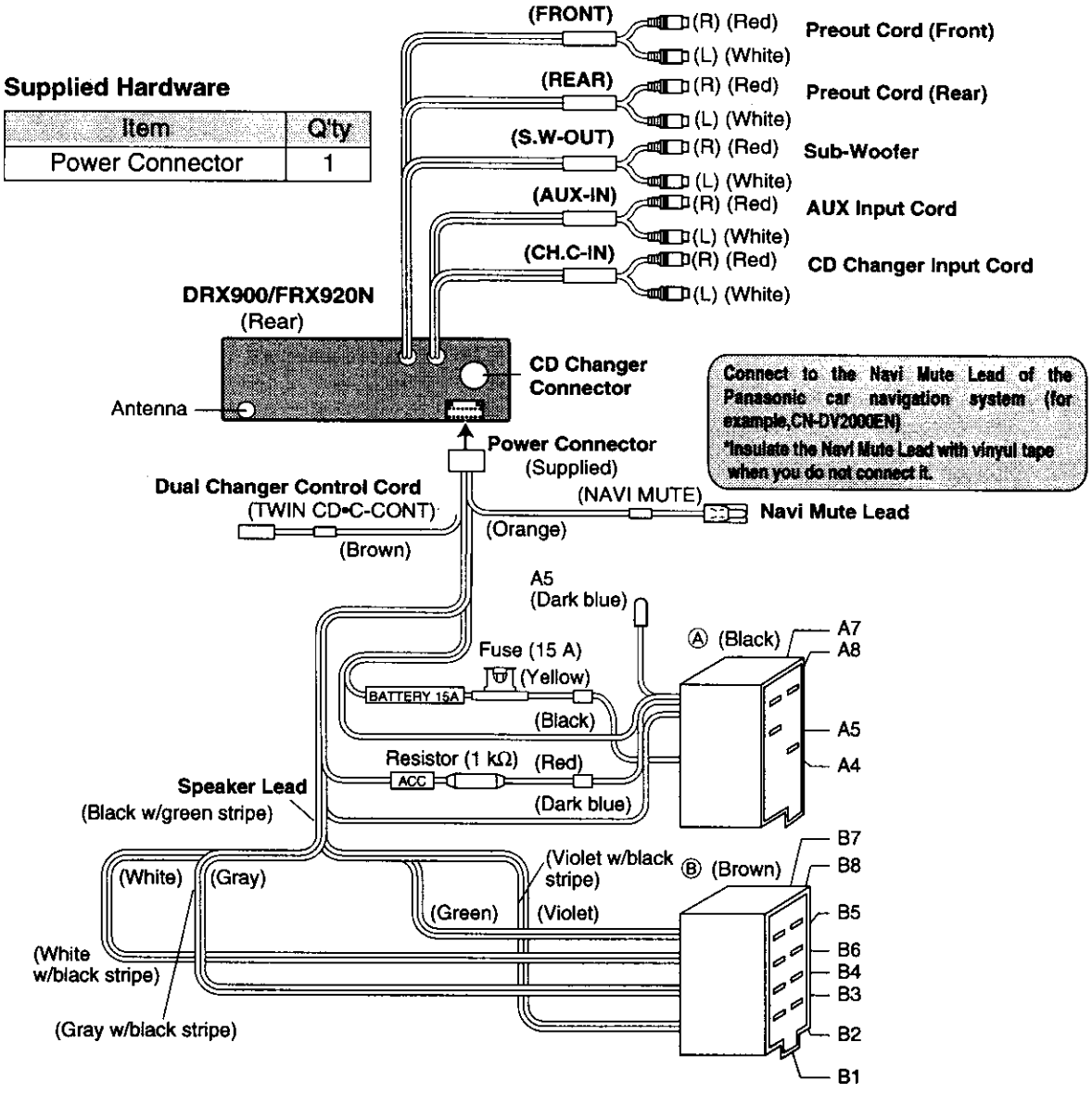
# Electrical Connections

- For wiring, carefully read the Operating Instructions for the devices connected.
- Consult the store where you purchased the unit for the wide range of speakers available there.

Remember, if your car has a drive computer or a navigation computer, the data of its memory may be erased when the battery terminals are disconnected.

**Supplied Hardware**

| Item | Q'ty |
|---|---|
| Power Connector | 1 |

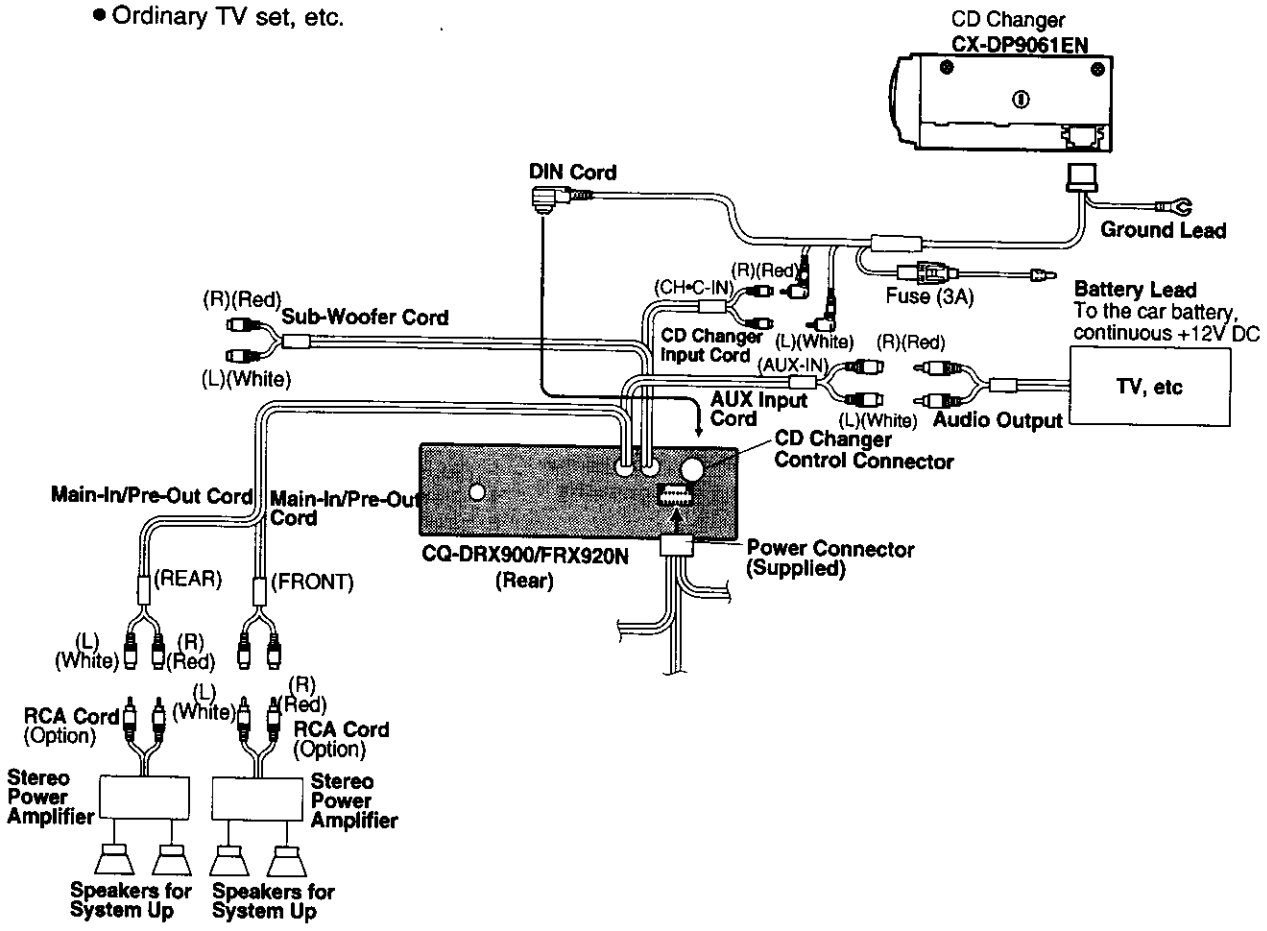



(See page 42 about A4 - A8 and B1 - B8.)

## System Upgrade Example 1: 10 Speakers (including center speaker)

Combination

- CD changer (CX-DP9061EN)
- Ordinary TV set, etc.



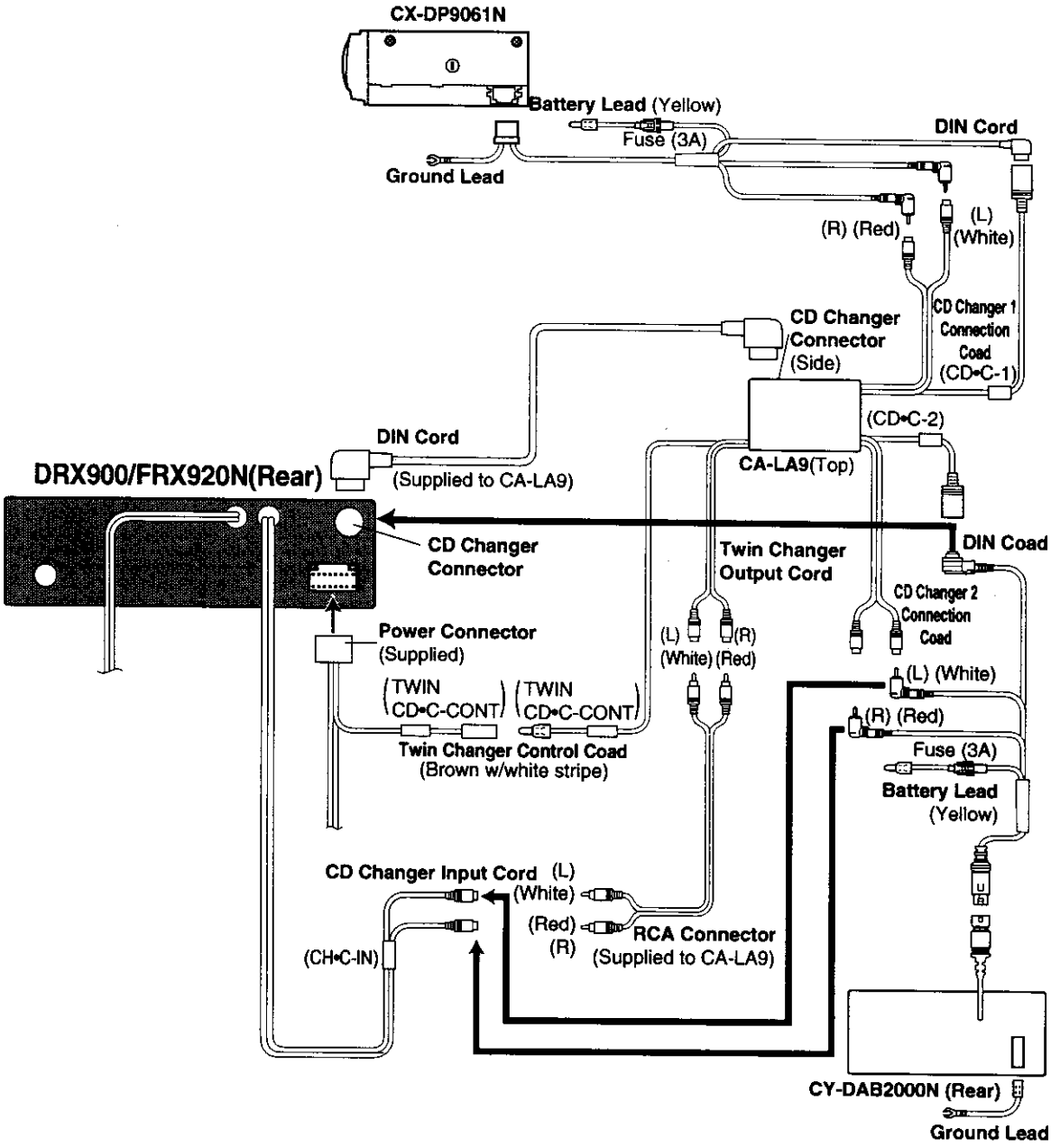

**Caution:**

- Ask a trained service person for installation and wiring.
- [illegible] installation and wiring of this unit requires special skills and experience. For safety, ask the [illegible] installation and wiring.
- [illegible] Do not remove the coverings from the ends of cables [illegible] Because it may generate smoke or fire and cause

## System Upgrade Example 2: Connecting a Changer and DAB

Combination: CD changer (CX-DP9061EN), DAB receiver (CY-DAB2000N)

- To connect two changers, the optional twin changer control unit (CA-LA9) is necessary.
- To use one changer, connect it as indicated by the bold lines(◀━━). (Example of connection: CY-DAB2000N)



# Fuse

Use fuses of the same specified rating (15 A). Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the unit.
If the replacement fuse fails, contact your nearest authorized Panasonic Service Center.

# Maintenance

Your product is designed and manufactured to ensure the minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner, or other solvents.

# Specifications

**General**

| | |
|---|---|
| Power Supply | : DC 12 V (11 V - 16 V), test voltage 14.4 V, negative ground |
| Tone Controls | : Bass; ± 12 dB at 100 Hz<br>Treble; ± 12 dB at 10 kHz |
| Current Consumption | : Less than 8.5 A (CD/tape mode, 0.5 W 4-speaker) |
| Rated Output | :25 W x 4 ch + 5 W (1 kHz, 1%, 4 Ω) |
| Maximum Power Output | : 45 W x 4 + 5W (Center speaker) |
| Power Output | : 18 W x 4 (DIN45 324, at 4 Ω) |
| Center Speaker Output | : 5 W |
| Compatible Speaker Impedance | : 4 Ω |
| External Input Impedance | : 10 k Ω (AUX IN) |
| External Input Sensitivity | : 200 mV (AUX IN) |
| Pre-Amp Output Voltage | : 2 V |
| Pre-Amp Output Impedance | : 200 Ω |
| Dimensions (Main Unit) | : 178(W) x 50(H) x 155(D) mm |
| Weight (Main Unit) | : 1.7 kg |

DSP

| | |
|---|---|
| Number of Channels | : 2 input channels, 6 output channels |
| Space mode | : 7 modes |
| Equalizer Center Frequency | : 80, 160, 320, 640, 1.6 k, 4 k, 10 k (Hz) |
| Variable Range of Equalizer | : -12 to +12 dB (13 steps) |

## FM Stereo Radio

| | |
|---|---|
| Frequency Range | : 87.5 - 108 MHz |
| Usable Sensitivity | : 6 dB/μV(S/N 30 dB) |
| Stereo Separation | : 35 dB(at 1 kHz) |

## MW Radio

| | |
|---|---|
| Frequency Range | : 531 - 1,602 kHz |
| Usable Sensitivity | : 28 dB/μV (S/N 20 dB) |

## LW Radio

| | |
|---|---|
| Frequency Range | : 153 - 279 kHz |
| Usable Sensitivity | : 32 dB/μV (S/N 20 dB) |

## Cassette Player (Only for CQ-FRX920N)

| | |
|---|---|
| Reproduction System | : 4-track, 2-program stereo |
| Tape Speed | : 4.76 cm/sec. |
| FF/REW Time | : Less than 110 sec. (C-60) |
| Frequency Response | : 30 - 17 kHz (normal)<br>30 - 18 kHz (metal) |
| Wow and Flutter | : 0.12 % (WRMS) |
| Signal to Noise Ratio | : 52 dB (Dolby off)<br>62 dB (Dolby B NR on)<br>72 dB (Dolby C NR on) |

## CD Player (Only for CQ-DRX900N)

| | |
|---|---|
| Sampling Frequency | : 8 times oversampling |
| DA Converter | : MASH•1 bit/4 DAC System |
| Error Correction System | : Panasonic Super Decoding Algorithm |
| Pick-Up Type | : Astigma 3-beam |
| Light Source | : Semiconductor Laser |
| Wave Length | : 780 nm |
| Frequency Response | : 20 Hz - 20 kHz (±1 dB) |
| Signal to Noise Ratio | : 96 dB |
| Total Harmonic Distortion | : 0.01 % (1 kHz) |
| Wow and Flutter | : Below measurable limits |
| Channel Separation | : 75 dB |

**Note**

Specifications and the design are subject to modification without notice due to improvements in technology.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

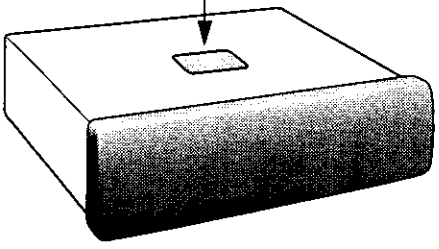
# Vorsichtsmaßnahmen

- **Label Indications and Their Locations**
- **Warnetiketten und deren Anbringungsort**
- **Indications portées les étiquettes et emplacement**
- **Aanduiding van de labels en hun plaats**
- **Varningsskyltarna, och deras placering**
- **Indicazioni delle etichette e le loro posizioni**
- **Indicaciones de las etiquetas y su ubicación**

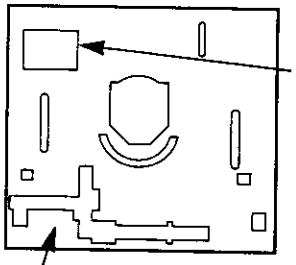
- APPAREIL À LASER DE CLASSE 1
- KLASS 1 LASER APPARAT
- LUOKAN 1 LASERPLAITE

VORSICHT! UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET IST, NICHT DEM LASERSTRAHL AUSSETZEN.

CLASS 1
LASER PRODUCT



**<Nur für CQ-DRX900N>**



| |
|---|
| DANGER! Invisible laser radiation when open. Avoid direct exposure to beam. |
| ADVARSEL! Usynligt laserlys udstråles ved åbning. Undgå direkte bestråling. |
| VARO! Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä kasto säteeseen. |
| VARNING! Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. |
| ADVERSEL! Usynlig laserstråling når deksel åpnes og sikkerhedslås brytes. Unngå eksponering for strålen. |

- Caution Mark
- Warnzeichen
- Marque d'avertissement
- Waarschuwingsteken
- Varningsmärke
- Marca di precauzione
- Marka de advertencia

- Deck Ass'y (Upper Side)
- Geräteansicht (Oberseite)
- Assemblage de la table lecture (Côté supérieur)
- Dekkbevestig (Bovenkant)
- Däcksenhet (Topp)
- Gruppo della piastra (Lato superiore)
- Conjunto de la platina (Lado superior)

## ⚠ Vorsicht

## Handhaben Sie die Batterien richtig.

Falsche Handhabung der Batterien kann zu einem Bersten und zu Flüssigkeitsaustritt führen, wodurch Hitze, Feuer, Verletzungen, Fehlbetrieb oder Umweltverschmutzung verursacht werden kann.

- Überprüfen Sie die positive (+) und negative (–) Polarität der Batterien und setzen Sie diese gemäß Vorschrift ein.
- Verwenden Sie niemals andere als die spezifizierten Batterien; mischen Sie niemals eine alte Batterie mit einer neuen, und verwenden Sie niemals gleichzeitig unterschiedliche Batterien.
- Tauschen Sie die Batterien aus, sobald die Batterien entladen sind.
- Entfernen Sie die Batterie aus der Fernbedienung, wenn Sie diese für längere Zeit nicht verwenden.
- Vor der Entsorgung oder der Aufbewahrung der Batterien, isolieren Sie diese, indem Sie Isolierband um die Batterien wickeln oder diese in Plastikbeutel einsetzen.
- Versuchen Sie niemals ein Aufladen, Kurzschließen, Zerlegen, Verformen oder Erhitzen der Batterien. Werfen Sie die Batterien auch niemals in ein Feuer oder in Wasser. Bringen Sie die Batterien nicht in den Kontakt mit metallischen Objekten.
- Belassen Sie die Batterien oder die Fernbedienung mit eingesetzter Batterien niemals in einem geschlossenen Pkw, im Kofferraum eines Fahrzeuges, an einem Ort mit direkter Sonneneinstrahlung, in der Nähe einer Heizung oder an einem anderen sehr heißen Ort.
- Halten Sie die Batterien außerhalb der Reichweite von Babys und Kleinkindern. Falls ein Baby oder ein Kleinkind einer Batterie verschluckt, wenden Sie sich unverzüglich an einen Arzt.