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### Basic Operations of steering remote control

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Safety precautions

**WARNING**

To prevent injury and/or fire, take the following precautions:

- Insert the unit all the way until it is fully locked in place. Otherwise it may fly out of place during collisions and other jolts.
- When extending the ignition, battery or ground cables, make sure to use automotive-grade cables or other cables with an area of 0.75mm² (AWG18) or more to prevent cable deterioration and damage to the cable coating.
- To prevent short circuits, never put or leave any metallic objects (e.g., coins or metal tools) inside the unit.
- If the unit starts to emit smoke or strange smells, turn off the power immediately and consult your Kenwood dealer.
- Make sure not to get your fingers caught between the faceplate and the unit.
- Be careful not to drop the unit or subject it to strong shock.

The unit may break or crack because it contains glass parts.

**CAUTION**

To prevent damage to the machine, take the following precautions:

- Make sure to ground the unit to a negative 12V DC power supply.
- Do not open the top or bottom covers of the unit.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not subject the faceplate to excessive shock, as it is a piece of precision equipment.
- When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- To prevent short circuits when replacing a fuse, first disconnect the wiring harness.
- Do not place any object between the faceplate and the unit.
- During installation, do not use any screws except for the ones provided. The use of improper screws might result in damage to the main unit.

**IMPORTANT INFORMATION**

You cannot connect the unit directly to the following CD automatic changers. For users who want to use older changers with the unit, follow the directions below according to the type of changer you own:

- **KDC-C200 / KDC-C300 / KDC-C400**
  Use the extension cable and the control box attached to the CD changer, and the optional CA-DS100 converter cable.
- **KDC-C301 / KDC-C600 / KDC-C800 / KDC-C601 / KDC-C401**
  Use the extension cable attached to the CD changer, and the optional CA-DS100 converter cable.
- **KDC-C100 / KDC-C302 / C205 / C705 / non-Kenwood CD changers**
  Cannot be used with this model.

**CAUTION**

You can damage both your unit and the CD changer if you connect them incorrectly.

The marking of products using lasers (Except for some areas)

**CLASS 1 LASER PRODUCT**

The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

US and foreign patents licensed from Dolby Laboratories Licensing Corporation.
**Safety precautions**

**NOTE**
- If you experience problems during installation, consult your Kenwood dealer.
- If the unit fails to operate properly, press the RESET button. When the faceplate is not visible, slide the manual open switch (as illustrated on p.6) for as many times as you have preset to make the faceplate control appear. The unit returns to factory settings when the RESET button is pressed. If the unit still fails to operate properly after the RESET button has been pressed, contact your local KENWOOD dealer for assistance.
- Press the reset button if the CD auto changer is first controlled and operates incorrectly. The original operating condition will return.

**Handling Mini discs**
- The MD shutter is designed so that it cannot be opened. If forced open, the cartridge will be damaged and use of the MD will no longer be possible. If the shutter has been opened due to some cause, be careful not to touch the recording portion with a finger. Doing so will cause the sound to skip.
- Do not use an MD that has a peeling label. Use of an MD that has a loose or peeling label may cause problems, such as the label coming off inside the player and the resultant inability to eject the MD.
- Wipe away dirt or dust from the cartridge surface with a dry cloth before use. Using an oil-soiled cartridge in particular may result in the disc not loading or being unable to eject it. (At time of cleaning, be careful not to open the shutter.)
- Do not leave the MD in the unit for a prolonged period. The ejected MD should be placed in an MD case for storage.
- Do not leave the MD in a place exposed to direct sunlight (such as on a instrument panel) or in other places that reach high temperatures. The MD cartridge will become misshapen and will no longer be usable.
- MDs designed for use with data cannot be used. Please use MDs designed for music.
- Do not use lens cleaners. Doing so will lead to breakdown.

**Cleaning the Unit**
If the front panel gets dirty, turn off the power and wipe the panel with a dry silicon cloth or soft cloth.

**CAUTION**
Do not wipe the panel with a stiff cloth or a cloth dampened by volatile solvents such as paint thinner and alcohol. They can scratch the surface of the panel and/or cause the indicator letters to peel off.

**Mask key**
If you have transmitted the Mask Key’s signal once to the unit in advance, you will have to transmit it once again if the unit has been removed from the battery. This function helps prevent theft.

When using the unit for the first time:
In order to deactivate the demonstration mode, be sure to press the transmit button to transmit the Mask Key’s signal.
If this procedure is not carried out, the control panel of the unit will re-open in two seconds even with your vehicle’s ignition turned off.

**CAUTION**
Do not lose the “Mask Key”.
If power is disconnected from the unit, correct operation can only be restored by the “Mask Key’s” signal. The “Mask Key” will also be required for service repair.

**NOTE**
If you send products in for repair that include a mask key, make sure to present the unit together with the mask key.

**Lens Fogging**
In cold climates, there may be a period after you turn on your vehicle’s heater when the lens that guides the laser beam used in your MD player fogs up. If this happens, you cannot play mini discs. Take out discs and the fogging will disappear. If it does not return to normal after several hours, contact your Kenwood dealer.
Basic operations

- DAB
- EJECT
- PTY
- SCAN/RDM/REPM/RDM
- NF
- DISP
- NAME/S
- DISC
- DISC
- PREOUT
- VOL ADJ
- LOUD
- KMD-PS970R

LOUD indicator
Basic operations

Power

You can help prevent theft of the unit by reversing the faceplate so that the control panel cannot be seen, hiding the unit, and shutting off the audio.

Power ON/OFF:

When you turn your vehicle’s ignition on, the unit’s power will also turn on, with the faceplate reversing to show the control panel.

When you turn your vehicle’s ignition off, the faceplate will reverse to hide the control panel, and the unit’s power will turn off.

NOTE

• After installation of your Mask unit, be sure to transmit the “Mask Key’s” signal to deactivate the demonstration mode. If this procedure is not carried out, the control panel of the unit will re-open in two seconds even with your vehicle’s ignition turned off.

• When the control panel of the faceplate is hidden, the unit will be locked by the sleeve, making it more difficult to remove the unit.

• When the moving faceplate is hit by an object, it will stop and return to its original state. Remove the object and repeat the action.

CAUTION

Using the Unit in Vehicles with Covered Consoles

• Make sure the console is uncovered whilst the faceplate is reversed.

• Do not exert any excess force on the movable parts of the unit, including the faceplate, as it can cause failure in the unit’s mechanism.

Hiding the unit with the ignition turned on (forced closing):

Hold down the SRC button for one second or more. The faceplate will reverse, hiding the unit. The unit will turn off.

NOTE

• When the closing faceplate is hit by an object, the unit will turn off without the faceplate closing all the way. Remove the object and press the SRC button to turn the unit back on, then turn it off again to make it close properly.

To cancel the forced closing of unit and open control panel:

Slide the Manual open switch, as illustrated below, for as many times as you have preset in the "Manual Open Switch Setting (Open SW#)" in the menu.

NOTE

When you set the Manual Open Switch setting to 2 or 3, slide the manual open switch successively. If you do not slide the switch successively, this cannot be verified correctly.

Manual open switch
**Switching Modes**

**Switching Modes:**
Each time you press the SRC button, the mode switches as follows:

- Tuner mode
- MD mode
- External disc control mode
- AUX mode

**NOTE**
- The mode switches to the next mode from any mode which cannot be used.
- The external disc control mode will differ depending on the unit that is connected.
- The AUX mode is available only when the changer / AUX switching adapter (KCA-S210A or CA-C1AX) or CD changer (KDC-CPS82 or KDC-CX82) is connected to this unit. During the AUX mode, "AUX" will show in the display. When the CA-C1AX is being used, the AUX Mode will replace the External Disc Control Mode.

---

**Attenuator**

This function allows you to turn down the volume quickly.

**Turning Attenuator On/Off:**
Press the ATT button to switch the attenuator on and off. When the attenuator is off, the volume returns to the original level.

**NOTE**
Turning down the volume all the way turns off the attenuator function.

---

**Loudness**

This function amplifies low and high tones when the volume is turned down. The LOUD indicator lights up, when the loudness function is on.

**Turning Loudness On/Off:**
Hold down the LOUD button for one second or more to switch the loudness on and off.

---

**Volume**

**Increasing Volume:**
Press the ▲ button to turn up the volume.

**Decreasing Volume:**
Press the ▼ button to turn down the volume.
Basic operations

Menu System

To accommodate a greater number of functions, a menu system has been employed for making settings. Press the MENU button to enter the menu mode and then display the function to make the setting. Details on each setting are explained separately in the corresponding function page.

1 Hold down the MENU button for one second or more. "MENU" is displayed when the menu mode is entered. The function that you can adjust is indicated with the current settings displayed.

2 Selecting function to set

Press the ► button to search through the functions until you see the one you want to adjust in the display. Press the ◄ button to search through the functions backward. Example: If you want to switch the tuning mode from Auto1 to manual, first search through the functions until you see "Auto 1" in the display.

Auto 1

3 Changing setting for currently displayed function

Press either the AM or FM button. The setting will change for each function. Example: The tuning mode will switch from Auto 1 to Auto 2. Pressing the button again switches the setting to manual, and "Manual" is displayed.

Auto 2 → Manual

4 Ending the menu mode

Press the MENU button. The selection includes:

- Touch Sensor Tone (Beep ON / OFF)
- Time Adjustment
- Automatic Time Adjustment
- Mask Key (Mask key)
- Selectable Illumination (Color Green / Amber)
- Dimmer level

NOTE

- Make sure to end the menu mode when finished. If you fail to end the menu mode, several functions may not operate properly, including the Traffic Information function, the News Bulletin function with PTY news timeout setting, and the Alarm function.
- The News function turns on when the setting is made for the news interruption interval. The "##MIN" display indicates the setting selected for the news interruption timeout interval.
- The "##" display indicates the setting value.
You can choose from three tuning modes: auto seek, preset station seek, and manual. The “AUTO 1” indicator lights up when auto seek tuning is selected, and the “AUTO 2” indicator lights when preset station seek tuning is selected.

1. Hold down the MENU button for one second or more. “MENU” is displayed and the menu mode is turned on.

2. Press the button repeatedly until the tuning function appears in the display. Press the button to search in the other direction. The tuning method is displayed as “Auto 1”, “Auto 2”, or “Manual” referring respectively to auto seek tuning, preset station seek tuning, and manual tuning.

3. **Switching settings**
   - Press either the AM button or FM button to switch the tuning mode. The display and setting will change.

4. Press the MENU button to end the menu mode.
**Tuner features**

**Tuning**

1. Press the SRC button repeatedly until the tuner mode is obtained. "TUNER" is displayed only when the tuner mode is selected.

2. Press either the FM or AM button to select the band. Each time you press the FM button, the band switches between the FM1, FM2 and FM3. Press the AM button to select the MW and LW bands.

3. **Auto Seek Tuning**
   - Press the ►► button to seek increasing frequencies.
   - Press the ◄◄ button to seek decreasing frequencies.

4. **Preset station seek tuning**
   - Press the ►► button to move to the next preset station (i.e., the one with the next highest number), and the ◄◄ button to move to the last preset station (i.e., the one with the next lowest number).

   **NOTE**
   
   If the frequencies stored at the preset numbers receive stations which were not originally memorized when traveling long distances, the preset number is not displayed. In such cases, pressing the ◄◄/►► button to use preset station seek will receive channel 1.

5. **Manual Tuning**
   - Press the ►► button to increase the frequency by one step.
   - Press the ◄◄ button to decrease the frequency by one step.

   **NOTE**
   
   The ST indicator lights up when stereo broadcasts are being received.

**Monaural Reception**

When poor stereo reception is experienced, this function will reduce noise and improve listening conditions.

1. Hold down the MENU button for one second or more. "MENU" is displayed and the menu mode is turned on.

2. Press the ►► button repeatedly until the monaural reception function appears in the display.
   - Press the ◄◄ button to search in the other direction.
   - The function setting is indicated by "Local.S ON" or "Local.S OFF" in the display, indicating that the local seek function is on or off, respectively.

3. **Switching settings**
   - Press either the AM button or FM button.
   - The display and setting will change.

4. Press the MENU button to end the menu mode.

**Local Seek Function**

With the local seek function turned on, auto seek tuning skips stations with relatively poor reception.

**Turning Local Seek Function On/Off:**

1. Hold down the MENU button for one second or more. "MENU" is displayed and the menu mode is turned on.

2. Press the ►► button repeatedly until the local seek function appears in the display.
   - Press the ◄◄ button to search in the other direction.
   - The function setting is indicated by "Local.S ON" or "Local.S OFF" in the display, indicating that the local seek function is on or off, respectively.

3. **Switching settings**
   - Press either the AM button or FM button.
   - The display and setting will change.

4. Press the MENU button to end the menu mode.

**Station Preset Memory**

Store the frequency of the station currently being listened to. You can then recall that station with a single touch of a button.
1 Select the band/station that you want to have stored.

2 Hold down the button (#1-6) that you want to use for the station, for two seconds or more.
   The button number blinks once in the display to indicate that the data has been stored.

Recalling a Preset Station:
Press the preset station button (#1-6) for the desired station.
The number of the recalled station is displayed.

NOTE
You can store 6 stations in each of the FM1, FM2, FM3, and AM (MW and LW) bands.

Auto Memory Entry
You can automatically store all the receivable frequencies in the band currently being listened to, and then recall them with the touch of a button later. This function is especially useful when you are travelling and do not know what stations are available. Up to 6 frequencies can be stored this way.

1 Select the band for auto memory entry.

2 Hold down the MENU button for one second or more.
   "MENU" is displayed and the menu mode is turned on.

3 Press the button repeatedly until "A-Memory" appears in the display.
   Press the button to search in the other direction.

4 Hold down either the AM button or FM button for two seconds or more to start auto memory function.
   The numbers of the preset station buttons showed in order.
   When all the stations in a certain band are stored in the preset memory, the auto memory entry stops. The tuner then plays the last station received.

Recalling a Preset Station:
Press the preset station button (#1-6) for the desired station.
The number of the recalled station is displayed.

NOTE
- When the AF function is turned on whilst auto memory entry takes place, only RDS stations (i.e., stations with RDS capability) are stored. RDS stations that have been preset for FM1 cannot also be preset in FM2 or FM3.
- When the local seek function is turned whilst auto memory entry takes place, stations with poor reception are not stored.
- When the Traffic Information function is on, only the local traffic information station frequency will be stored.

Cancelling Auto Memory Entry During Its Operation:
Press the MENU button whilst auto memory entry is taking place to stop the process.
**Tuner features**

*Preset station seek with Programme service name* *(Function of Remote)*

You can search for the preset station with Programme Service name.

1. Press the DNPP button on the remote control.
   “SNPP” will be displayed once the seek mode is entered.
   The names of the stations preset in the band currently listened to are displayed for 5 seconds each.
   The display band switches in the following order:
   
   ![Display Bands]

   Each time you press the ![Forward] button, the station display switches in the forward direction.
   Each time you press the ![Reverse] button, the station display switches in the reverse direction.
   Stations which have no names will be displayed as frequencies.

**NOTE** Changing the Displayed Band

Pressing the FM button switches between the FM1, FM2, FM3 and AM displays, in that order.
Pressing the AM button switches between the displays in the reverse direction.

2. **Once the name is displayed for the station you want to listen to**
   Press the OK button.
   Reception starts of the displayed station, and the seek mode ends.

*Cancelling mode during input:*

Press the DNPP button.
The seek mode is cancelled.

---

**Clock display**

*Turning clock display On/Off:*

Each time you press the CLK button, the display switches between the clock and Band/Preset station number display.

---

**NOTE**

The ![Clock] indicator lights whilst the clock is displayed.

---

**Kenwood intelligent Twin IF (K2I)**

When the frequency of another station is too close to that of the station currently being listened to, interfering with proper reception, this function automatically narrows the range of received frequencies to prevent such interference.
RDS features

RDS is a digital information system that lets you receive signals besides those of regular radio programmes, such as network information being transmitted from radio stations. When listening to an RDS station (i.e., a station with RDS capability), the programme service name of the station is displayed along with the frequency, advising you quickly which station is being received. RDS (Radio Data System) stations also transmit frequency data for the same station. When you are making long trips, this function automatically switches to the particular frequency with the best reception for the particular network of stations that you want to listen to. The data is automatically stored, allowing you to switch quickly to another RDS stations, broadcasting the same programme, that has better reception. These include stations stored in the station preset memory that you often listen to.

EON (Enhanced Other Network)

Stations that offer EON also transmit information about other RDS stations that have traffic information. When you are tuned to a station that is not transmitting traffic information, but another RDS station starts transmitting a traffic bulletin, the tuner automatically switches to the other station for the duration of the bulletin.

Alarm

When an emergency transmission (announcing disasters, etc.) is sent, all current functions are interrupted to allow the warning to be received.
**RDS features**

**AF (Alternative Frequency) Function**
When poor reception is experienced, automatically switch to another frequency broadcasting the same programme in the same RDS network with better reception. The  \( \text{AF} \) indicator lights up when the AF function is turned on.

**Turning AF Function On/Off:**
1. Hold down the MENU button for one second or more. "MENU" is displayed and the menu mode is turned on.
2. Press the \( \leftarrow \rightarrow \) button repeatedly until the AF function appears in the display.
3. Press the \( \leftarrow \rightarrow \) button to search in the other direction. The function setting is indicated by "AF ON" or "AF OFF" in the display, indicating that the AF function is on or off, respectively.
4. Switching settings
   Press either the AM button or FM button. The display and setting will change.
5. Press the MENU button to end the menu mode.

**Displaying Frequencies:**
Hold down the DISP button for one second or more. The frequency for the RDS station will be displayed for five seconds instead of the station name.

**Turning AF Function On/Off:**
1. Hold down the MENU button for one second or more. "MENU" is displayed and the menu mode is turned on.
2. Press the \( \leftarrow \rightarrow \) button repeatedly until the AF function appears in the display.
3. Press the \( \leftarrow \rightarrow \) button to search in the other direction. The function setting is indicated by "AF ON" or "AF OFF" in the display, indicating that the function is on or off, respectively.
4. Switching settings
   Press either the AM button or FM button. The display and setting will change.
5. Press the MENU button to end the menu mode.

**Restricting RDS Region (Region Restrict Function)**
You can choose whether or not to restrict the RDS channels, received with the AF function for a particular network, to a specific region. When the Region Restrict Function is on, the region is restricted.

**Traffic Information Function**
You can listen to traffic information. If you are listening to tapes or discs, they will continue playing until a traffic bulletin is broadcast.

**Turning TI function On/Off:**
1. Press the TI button to turn the function on and off. When the function is on, the TI indicator is turned on. When none is being received, the TI indicator will blink on and off. When a traffic information station is being received, the TI indicator will turn on.
2. When a traffic bulletin begins to be broadcast, "TRAFFIC" will be displayed, and reception will begin at the preset volume. If you are listening to a tape or disc when a traffic bulletin begins, they will automatically be turned off. When the bulletin ends or poor reception is experienced, the tape or disc will begin playing again.

**NOTE**
Pressing the TI button whilst in the MW/LW band automatically...
Preset the volume level to be used for traffic information and news broadcasts.

Tune into the station for which you want to set the volume. Adjust the volume to the desired level. Hold down the TI VOL ADJ button for two seconds or more.

The volume level blinks once in the display to indicate that the data has been stored. Future traffic information/news broadcasts are heard at the preset level.

• The volume cannot be lowered by this function during tuner reception. The volume is only set when it is louder than the listening volume of the tuner.

• You can arrange only to listen to traffic information or news bulletins with a preset volume with the volume set at minimum.

**Switching to a Different Traffic Information Station:**

Use the | ▶| / ▶| buttons to make an auto seek of the TI stations in a certain band.

**NOTE**

• When you are listening to a tape or disc, you cannot change to another TI station.

• When the auto TP seek function is turned on and reception starts to weaken, the tuner automatically seeks traffic information stations with better reception.

• If you are tuned to a station that is not a traffic information station itself but which provides EON services, you can still have traffic information received.

• Holding the TI button down for one second or more when the TI function is on in the disc control mode results in a change to the frequency display of the traffic information station for five seconds.

**Auto TP Seek Function**

When the TI function is on and poor reception conditions are experienced when listening to a traffic information station, another traffic information station with better reception will be searched for automatically. This function is on, when unit is first powered on.

**Turning Auto TP Seek Function On/Off:**

1. Hold down the MENU button for one second or more.
   "MENU" is displayed and the menu mode is turned on.

2. Press the ▶| button repeatedly until the Auto TP Seek function appears in the display.
   Press the | ▶| button to search in the other direction.
   The function setting is indicated by "ATPS ON" or "ATPS OFF" in the display, indicating that the function is on or off, respectively.

3. **Switching settings**

   Press either the AM button or FM button.
   The display and setting will change.
   If the traffic information station you are tuned to experiences poor reception, this function automatically seeks another TP station.

4. Press the MENU button to end the menu mode.

**Presetting Volume for Traffic Information/News**

Preset the volume level to be used for traffic information and news broadcasts.

1. Tune into the station for which you want to set the volume.
2. Adjust the volume to the desired level.
3. Hold down the TI VOL ADJ button for two seconds or more.
   The volume level blinks once in the display to indicate that the data has been stored.
   Future traffic information/news broadcasts are heard at the preset level.

**NOTE**

• The volume cannot be lowered by this function during tuner reception. The volume is only set when it is louder than the listening volume of the tuner.

• You can arrange only to listen to traffic information or news bulletins with at preset volume with the volume set at minimum.
**RDS features**

### Text Scroll

This function permits the text to be scrolled and the entire text to be displayed. Switching between manual scrolling and automatic scrolling is permitted. The factory default is manual scrolling.

**To scroll manually:**
1. Press the DISP button to display the Radio Text.
2. Holding down the DISP button for one second or more results in one scrolling display of the text.

**Manual/Automatic scroll switching:**
1. Hold down the MENU button for one second or more. "MENU" is displayed and the menu mode is turned on.
2. Press the ► button repeatedly until the Text scroll function appears in the display. Pressing the ◄ button results in the functions being switched in the reverse order. The text scroll function is displayed with "Scroll Auto" or "Scroll Manu".
   - "Scroll Manu" (Manual scrolling)
   - "Scroll Auto" (Automatic scrolling)

3. **Switching settings**
   - Press either the AM or FM button. The display and setting will change.
4. Press the MENU button to end the menu mode.

**To scroll automatically:**
1. Press the DISP button to display the Radio Text. The text will be displayed in one scrolling display.
2. Holding down the DISP button for one second or more results in one scrolling display of the text.

**NOTE**

The setting of the text scroll function is in common with Text Scroll for disc control.

### Radio Text

You can display textual information being transmitted by RDS stations.

**Turning on Radio Text Display Mode:**
- Pressing the DISP button switches the display as follows.
- Select the Radio Text Display mode.

```
Programme Service name

Radio text
```

**NOTE**

If the RDS station currently tuned to is transmitting no text whilst the Radio Text Display mode is turned on, "NO TEXT" will appear in the display. Whilst awaiting reception, "WAITING" will be displayed.

**WARNING**

To prevent accidents, drivers should not look at the display whilst on the road.

### Programme Type (PTY) Function

Conduct auto seek tuning only on those stations with selected kinds of programmes.

1. Press the ► button (PTY).
   - "PTY" is displayed, and the Programme Type Selection (PTY) Mode entered.
   - If you make no key input in 30 seconds, the mode will automatically turn off.

**NOTE**

You cannot use this function whilst the traffic information function is turned on.

**NOTE**

Changing the Display Language to French, German, or Swedish In the PTY mode, hold down the ► button (PTY) for one second
or more to display the name of the language currently used. If you want to change the language, press the preset button for the desired language and then the ►II(PTY) button. English is #1, French is #2, German is #3, and Swedish is #4.

2 Select the type of programme to be received
• Press either the FM or AM buttons repeatedly until the type of programme you want to listen to.

The selection includes:
  5. Education(Educate) ← 6. Drama(Drama) ←
  7. Culture(Culture) ← 8. Science(Science) ← 9. Varied(Variied) ←
  17. Finance(Finance) ← 18. Children's programs(Children) ←
  19. Social Affairs(Social) ← 20. Religion(Religion) ← 21. Phone In(Phone In) ← 22. Travel(Travel) ← 23. Leisure(Leisure) ←
  28. Folk Music(Folk M) ← 29. Documentary(Documentary) ←

Speech(Speech) ← Speech(Speech) ←
(Speech.....1~9, 16~23, 29, Music.....10~15, 24~28)

• You can select the type of programme directly by pressing a preset button. The buttons are factory-set to the following type of programmes:

NOTE Changing the Preset Button Settings for Programme Type
After selecting the type of programme to be stored in a certain preset button, hold down that button for two seconds or more. The previously stored data for that button are erased and the new programme type is stored.

3 Seeking the selected programme type
Press the ◀ or ►I button to make a seek of frequencies with your selected type of programme. The display blinks and the seek starts.
If your selected type of programme is found, the name of the station is displayed and the station is tuned into.

“PTY” blinks in the display for about 30 seconds.
If you make no key input in 30 seconds, the PTY selection mode will turn off automatically.

NOTE
If no programme can be found, "NO PTY" is displayed.
If you want to select another type of programme, repeat steps 2 and 3 above.

Switching to Other Stations with the Same Type of Programme:
When “PTY” is blinking in the display, perform auto seek tuning.
The tuner scans for another station with the same type of programme.

Cancelling Programme Type Function During Its Operation:
Press the ►II(PTY) button.
**RDS features**

**News Bulletin Function with PTY News Timeout Setting**

You can arrange to have news bulletins interrupt your current listening source, including other radio stations. When the News Bulletin function is on, the PTY News Timeout setting allows you to set the interval during which further news interruption cannot take place. You can adjust the PTY news interruption period from 10 to 90 minutes for each journey.

**Turning News Bulletin Function On/Off:**

1. Hold down the MENU button for one second or more. "MENU" is displayed and the menu mode is turned on.

2. Press the button repeatedly until the News Bulletin function appears in the display. Press the button to search in the other direction. The function setting is indicated by "NEWS ##MIN" or "NEWS OFF" in the display, indicating that the function is on or off, respectively.

**NOTE**

Depending on the interval chosen, the "##MIN" in the display will change when the function is turned on.

3. **Changing the Function Setting**

   Press either the FM or AM button. Each time you press the FM or AM button until the desired setting is displayed.

   Press the FM button to increase the interval, and the AM button to decrease it.

   OFF ↔ 00MIN ↔ 10MIN ↔ 20MIN ↔ 30MIN ↔ 40MIN ↔ 50MIN ↔ 60MIN ↔ 70MIN ↔ 80MIN ↔ 90MIN (MIN = minutes)

   When you select the news interruption timeout interval, the News function turns on and the NEWS indicator lights up. When a news bulletin is received, "NEWS" will be displayed and reception will begin at the preset volume.

**NOTE**

If you choose the "20MIN" setting, further news bulletins will not be received for 20 minutes once the first news bulletin is received.

4. Press the MENU button to end the menu mode.

**NOTE**

- This function is only available if the desired station sends PTY-code for news bulletin or belongs to EON-Network sending PTY-code for news bulletin.
- If you turn on the news bulletin function in the MW/LW band, the band is switched automatically to the FM band. However, the MW/LW band is not returned to when you turn off the function.
When a unit equipped with an O-N switch is to be connected, please also see the instruction manual of this unit. Set the O-N switch to "N". "N"-operation will be set.

When a unit that is not equipped with an O-N switch, or the changer switching unit "KCA-S200" is connected, "O"-operation will be set.

"N"-operation:
- The disc title and track title of the CD text can be displayed.
- The disc name will be displayed when the name has been registered to any connected unit with the Presetting Disc Names function, or when the playing unit contains a disc to which the disc title has been recorded.

"O"-operation:
- CD text cannot be displayed.
- Regardless of the control unit, the characters that can be registered with the Presetting Disc Names function are "A–Z 0–9 /, +, –, =, <, >, [, ]".
- The disc name will be displayed when the name has been registered to the playing unit with the Presetting Disc Names function.

**NOTE**

The CD text, Presetting Disc Names, and Disc Name Preset Play functions may not be operational depending on the unit.
MD/External disc control features

Playing MDs

**Playing MDs:**
Press the \(\rightarrow\text{(EJECT)}\) button to slide open the faceplate, showing the MD (insertion) slot. Insert the MD in the proper orientation. The faceplate will show the control panel, and the MD will start playing.
The \(\in\text{IN}\) indicator will light when an MD has been inserted.

**Playing MDs Already Inserted:**
Press the SRC button repeatedly until the MD mode is obtained. "MD" is displayed when the MD mode has been selected. The MD will start playing.

**Pausing and Restarting MD Play:**
Press the \(\text{II}\) button to make the disc pause. Press the same button again to start play again.

**Eject:**
Press the \(\rightarrow\text{(EJECT)}\) button. The faceplate will slide to eject the MD. Press the \(\rightarrow\text{(EJECT)}\) button to show the control panel.

**CAUTION**
Do not attempt to insert an MD into the slot if another one is already there.

**NOTE**
- The sound will be temporarily muted whilst the faceplate is moving.
- The only buttons that will work during the eject state are the \(\rightarrow\text{(EJECT)}\), SRC, TI, and ATT buttons, as well as the volume control button.

**Playing Other Disc mode**
This function permits the connection of optional players and the playing of discs other than the loaded MD (in the current unit).

**Playing Discs:**
Press the SRC button repeatedly to select the external disc control mode. The disc will start playing.

**NOTE**
The external disc control mode will differ, depending on the unit that is connected.

**Mode Display Examples**
- "CD"...when a CD player is connected
- "DISC"...when a disc changer is connected
- "DISC-1", "DISC-2"...when two disc changers are connected

**Pausing and Restarting Disc Play:**
Press the \(\text{II}\) button to make the disc pause. Press the same button again to start play again.

**NOTE**

- When one disc has finished playing its last track, the next disc in the changer will start playing. When the last disc in the changer has finished, the player will return to the first disc and start playing it.
- Disc #10 is displayed as "0".

**Switching Display for Discs**
Switch the display that appears whilst discs are playing.

**Switching Display for Discs:**
Each time you press the DISP button, the display during disc play switches as follows.

- Track time
- Disc name (DNPS)
- Disc title (Units featuring CD text/MD only)
- Track title (Units featuring CD text/MD only)

**NOTE**
You can give names to discs through the presetting disc name function (see p.24). Note that depending on the unit, display may not be possible.
• If you try to display the name of a disc that does not have one, "NO NAME" is displayed instead.
• When there is an attempt to display the title of a disc for which the disc title/track title has not been recorded, "NO TEXT" is displayed for CD and "NO NAME/NO TITLE" is displayed for MD.
• Depending on the type of characters of the CD Text, some characters may not be displayable.

**Clock display**

**Switching Display**:
Each time you press the CLK button, the display switches as follows:
- Mode display / Changer/disc number
- Track time
- Track number
- Clock

**NOTE**
The ** indicator lights whilst the clock is displayed.

**Track Search**
Search forwards or backwards through the tracks on the disc until you reach the one that you want to listen to.

**Making a Reverse Track Search:**
Press the reverse button to display the desired track number. Press once to search back to the beginning of the current track, twice to search back to the beginning of the previous track, and so forth. Play starts at the beginning of the displayed track number.

**NOTE** (For disc changers)
Pressing the reverse button whilst listening to track 1 only searches back to the beginning of that track. The reverse search is not "recycled" to the last track on the disc.

**Making a Forward Track Search:**
Press the fast-forward button to display the desired track number. Press once to fast forward to the next track, twice to fast forward to the next track after that, and so forth. Play starts at the beginning of the displayed track number.

**NOTE** (For disc changers)
You cannot make a forward track search when listening to the last track on a disc.

**Reversing Disc Play:**
Hold down on the reverse button. Release your finger to play the disc at the point.

**NOTE**
You cannot use reverse play between tracks depending on the model being connected. Instead, the reverse play function is cancelled when it reaches the beginning of a track, at which point normal play automatically resumes.

**Fast Forwarding and Reversing Disc Play**

**Fast Forwarding Disc Play:**
Hold down on the fast-forward button. Release your finger to play the disc at that point.
**MD/External disc control features**

### Disc Search  
**(Function of disc changers)**

Search forwards or backwards through the discs in a disc changer until you reach the one that you want to listen to.

**Making a Reverse Disc Search:**
Press the DISC− button to display the desired disc number. Each time the button is pressed, the displayed disc number decreases by one. 
Play starts at the beginning of the displayed disc.

**Making a Forward Disc Search:**
Press the DISC+ button to display the desired disc number. Each time the button is pressed, the displayed disc number increases by one. 
Play starts at the beginning of the displayed disc.

**NOTE**
"LOAD" is displayed when discs are being exchanged on the disc changer.

### Track / Disc Repeat

Repeat playing the current track or disc.

**Turning Repeat Play Function On/Off:**
Press the REP button to switch the repeat play function on and off as follows:

- **Track Repeat ON**
- **Disc Repeat ON (Function of disc changers)**
- **Track/Disc Repeat OFF**

"REP ON/TREP ON" is displayed and the track number blinks in the display when track repeat is on.
"DREP ON" is displayed and the disc number blinks in the display when disc repeat is on.

**NOTE**
The repeat play function is cancelled when you stop playing the disc.

### Track Scan

Successively play the beginning of each track on a disc until you find the track that you want to listen to.

**Starting the Track Scan:**
Press the SCAN button. "Scan ON/TSCN ON" is displayed and the first 10 seconds of each track are played, and the tracks are played in order. 
The track number currently being heard blinks in the display.

**Stopping to Listen to the Track Being Scanned:**
Press the ►II or SCAN button again to stop the scan and keep on listening to a track normally.

**NOTE**
- The track scan function is cancelled when you stop playing a disc.
- The track scan function only scans each track on a disc once.

### Disc Scan  
**(Function of disc changers)**

Successively play the beginning of each disc on a changer until you find the one that you want to listen to.

**Starting the Disc Scan:**
Press the D.SCN button. "DSCN ON" is displayed and the first 10 seconds of each disc are played, in the order in which they are loaded on the changer. 
The disc number currently being heard blinks in the display.

**Stopping to Listen to the Disc Being Scanned:**
Press the ►II or D.SCN button again to stop the scan and keep on listening to the disc normally.
Play all the tracks on the current disc in random order.

Press the RDM button to switch the random play function on and off. "RDM ON" is displayed when random play is turned on. The display of the track number changes continuously as the next track is being selected. When the track has been selected, play starts. The selected track number blinks in the display as it is being played.

**NOTE**
When the disc or track to be played changes, the title is displayed in one scrolling display.

1. Press the RDM button to switch the random play function on and off.
2. Holding down the DISP button for one second or more results in one scrolling display of the titles.

**NOTE**
(For disc changers)
When all the tracks on a certain disc have been played using the random play function, the next disc on the changer starts playing (with the random play function still turned on).

1. To change the track being heard, press the ➪ button.

**NOTE**
The random play function is cancelled when you stop playing a disc.

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**NOTE**
- The disc scan function is cancelled when you stop playing a disc.
- The disc scan function only scans each disc on the changer once.
- "LOAD" is displayed when discs are being exchanged on the disc changer.

**Text / Title Scroll**
This function permits the text to be scrolled and the entire text to be displayed. Switching between manual scrolling and automatic scrolling is permitted. The factory default is manual scrolling.

**To scroll manually:**
1. Press the DISP button to display the disc title or the track title.
2. Holding down the DISP button for one second or more results in one scrolling display of the titles.

**Manual/Automatic scroll switching:**
1. Hold down the MENU button for one second or more. "MENU" is displayed and the menu mode is turned on.
2. Press the ➪ button repeatedly until the Text/title scroll function appears in the display. Pressing the ▶ button results in the functions being switched in the reverse order. The text/title scroll function is displayed with "Scroll Auto" or "Scroll Manu".
   "Scroll Manu" (Manual scrolling)
   "Scroll Auto" (Automatic scrolling)
3. **Switching settings**
   Press either the AM or FM button. The display and setting will change.
4. Press the MENU button to end the menu mode.

**To scroll automatically:**
1. Press the DISP button to display the disc title or the track title. The titles will be displayed in one scrolling display.

**NOTE**
Only units with a CD text feature permit title display.

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**Text / Title Scroll**

*The disc scan function is cancelled when you stop playing a disc.*
*The disc scan function only scans each disc on the changer once.*
*"LOAD" is displayed when discs are being exchanged on the disc changer.*

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**Random Play**

Play all the tracks on the current disc in random order.

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Presetting Disc Names

Store the names of discs to be displayed when played.

1. Play the disc whose name you want to preset.

   - This function is not available for disc changers that do not feature the Disc Name Preset function.
   - This procedure is not to be used to store the disc and track titles for MDs that you record.

2. Hold down the NAME.S button for two seconds or more. “NAME SET” is displayed and the disc name preset mode is entered. The cursor blinks in the position where character input can be made.

3. Press either the [ ◄ ] or [ ► ] button to move the cursor to the desired position.
   - The [ ◄ ] button moves the cursor to the left, and the [ ► ] button to the right.
   - You can also move the cursor left or right by pressing the TRACK+ or TRACK– buttons, respectively, on the remote control.

4. Each time the [ ► ► ] button is pressed, the characters to be entered change as listed below.
   - Press the DISC+ or DISC– button to display the desired character. Characters that can be displayed are as follows.

   - Alphabet (upper case): A ~ Z
   - Alphabet (lower case): a ~ z
   - Numerals and symbols: 1~9 0 @ ” ‘ % & + - = , / < > [ ]
   - Special characters: ‡
   - †
   - ñ
   - Ń
   - Ŏ
   - Ŕ
   - Ţ
   - Ů
   - ů
   - –
   - Ť
   - ©
   - ®
   - Ý
   - Þ

5. Continue steps 3 and 4 until all the characters are chosen for the name.

   - You can enter up to 8 characters for each name.

6. Press either the NAME.S button on the main unit or the OK button on the remote control.
   - The disc name is stored and the disc name preset mode is cancelled.
   - If you make no entry in a 10-second period, the name will be stored with the characters input so far.

   - The number of characters and discs whose names can be stored will differ depending on the disc changer that is connected. Please see your disc changer manual for details.
   - Discs are identified by their total length and number of tracks. If another disc happens to have the same specifications as one that you have already stored a name for, the name will be displayed for it, too.
   - If you want to change the name of a disc, repeat steps 1 and 2 to display the name, and then repeat steps 3 and 4 to input the changes.
   - Pressing the reset button does not erase the disc names stored in a disc changer.
Disc Name Preset Play (DNPP)  
*Function of remote control with DNPP button*

If you have preset the name of a disc that you want to listen to in the disc changer, you can look for it by name and start playing it.

1. Press the DNPP button on the remote control.
   "DNPP" will appear in the display, and the disc name preset play mode is entered.
   The preset names/disc titles of the disc in the disc changer to which you are currently listening are successively displayed for five seconds each.
   In any of the units that are connected, discs that have not been disc name preset will display "NO NAME".

**NOTE**

- This function can only be used in disc changers that were manufactured or sold as of 1997. Also note that some units cannot provide a display unless the disc name preset has been made by the unit that is playing.
- Discs in the disc changer that have never been played before will appear as "NO ACCES" when the disc names are displayed. When you cannot identify a disc because of the "NO ACCES" display after inserting a disc magazine, try playing it using the disc scan or a similar function to display the disc name. Also note that "NO DISC" will be displayed when a disc has not been loaded.

**Rapid display (forward / reverse):**
Press the DISC+ or DISC— button.
Pressing the DISC+ button will rapidly display the preset names/disc titles in order.
Pressing the DISC— button will rapidly display the preset names/disc titles in reverse order.

2. **When the name appears for the disc you want to play**
Press the OK button.
The disc whose name is displayed will be recalled, and the disc name preset play (DNPP) mode will end.

To cancel DNPP mode:
Press the DNPP button.
The disc name preset play (DNPP) mode will be cancelled.

Magazine Random Play  
*(Function of disc changers)*

Play the tracks on all the discs in the disc changer in random order.

1. Press the M.RDM button to switch the magazine random play function on and off.
   "MRDM ON" is displayed when magazine random play is turned on.
The display of the disc and track numbers change continuously as the next track is being selected.
When the disc/track has been selected, play starts.
The selected disc/track number blinks in the display as it is being played.

**NOTE**
This function is not available with the following models: KDC-C200/C300/C400/C301/C401

2. To change the track being heard, press the ►► button.
Another disc/track is selected and played.

**NOTE**
- The magazine random play function is cancelled when you stop playing a disc.
- The time needed for random selection depends on the number of discs loaded in the disc magazine.
Other features

Audio Control Setting
Adjust various parameters of sound quality.

1. Press the AUD button to enter the control mode.
2. Press either the FM or AM button. Each time the button is pressed, the adjustment mode will change as follows:
   - Pressing the FM button advances the display, and pressing the AM button reverses it.

   - Bass
   - N-F Phase* (only when being switched)
   - Treble
   - N-F Low-pass filter* (only when being switched)
   - Balance
   - Rear High-pass filter
   - Fader
   - Front High-pass filter
   - N-F Level* (only when being switched)
   - *Not available during the Dual zone system on.

   NOTE Source tone memory
   Each source (MD, FM, AM, and disc changer) has its own memory in which to store the bass, treble and N-F level settings. The settings made for a particular source are then recalled automatically whenever you use that source (e.g., FM mode uses the tone settings made for FM, AM for AM, etc.).

3. Press the button.
   Look at the table to adjust the mode being displayed.
Switching Graphic Display

This function permits the graphic display to be switched to one that is linked with the volume level value or to display various modes. The initial setting is ON (displaying various modes).

Turning the Graphic Display On/Off:

1. Hold down the MENU button for one second or more. “MENU” is displayed and the menu mode is turned on.
2. Press the button repeatedly until the Switching Graphic Display function appears in the display. Press the button to search in the other direction. The function setting is indicated by “Graphic ON” or “Graphic OFF” in the display, indicating that the Graphic display is on or off, respectively. ‘Graphic ON’ (The graphic display works.) ‘Graphic OFF’ (The graphic display does not work.)

3. Switching settings

Press either the AM button or FM button. The display and setting will change.

4. Press the MENU button to end the menu mode.

NOTE

When making audio adjustments, even when this function is on, the display will be linked to the audio adjustment value, not the display of the various modes.

<table>
<thead>
<tr>
<th>Adjustment mode (Display)</th>
<th>Operation of Audio control button</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>❯ button</td>
</tr>
<tr>
<td><strong>Bass (“Bas”)</strong></td>
<td>Bass decreased.</td>
</tr>
<tr>
<td><strong>Treble (“Tre”)</strong></td>
<td>Treble decreased.</td>
</tr>
<tr>
<td><strong>Balance (“Bal”)</strong></td>
<td>Left channel emphasized.</td>
</tr>
<tr>
<td><strong>Fader (“Fad”)</strong></td>
<td>Rear channel increased.</td>
</tr>
<tr>
<td><strong>Non-Fading Preout Level (“NF”)</strong></td>
<td>Front and rear channels (including preout) emphasized.</td>
</tr>
<tr>
<td><strong>High-pass filter for front output (“Front”)</strong></td>
<td>You can select the frequency to be cut, as follows: Through (through) ↔ 40Hz ↔ 60Hz ↔ 80Hz ↔ 100Hz ↔ 120Hz ↔ 150Hz ↔ 180Hz ↔ 220Hz</td>
</tr>
<tr>
<td><strong>High-pass filter for rear output (“Rear”)</strong></td>
<td>You can select the frequency to be cut, as follows: Through (through) ↔ 40Hz ↔ 60Hz ↔ 80Hz ↔ 100Hz ↔ 120Hz ↔ 150Hz ↔ 180Hz ↔ 220Hz</td>
</tr>
<tr>
<td><strong>Low-pass filter for Non-fading output (“N-FAD”)</strong></td>
<td>You can select the frequency to be cut, as follows: 50Hz ↔ 80Hz ↔ 120Hz ↔ Through (through)</td>
</tr>
<tr>
<td><strong>Phase for Non-fading output (“Phase”)</strong></td>
<td>You can select the phase for non-fading output, as follows: Normal (0°) ↔ Reverse (180°)</td>
</tr>
</tbody>
</table>

4. Press the AUD button to end the control mode.

NOTE

Setting the high-pass filter

You can separately set the high-pass filter for front and rear output, including preouts. The factory default settings for front output and rear output are “through”.

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Other features

Switching Spectrum Analyzer Display

This function permits switching of the spectrum analyzer display.

Switching the Spectrum Analyzer Display:
Each time you hold down the CLK button for one second or more, the display switches as follows:

- Spectrum analyzer 1
- Spectrum analyzer 2
- Character

**NOTE**
This function cannot be operated whilst the Black Mask function is on.

Dimmer

You can dim the display.

**NOTE**
The dimmer function is not available for units if the dimmer cable is not connected.

Turning Dimmer On/Off:

1. Hold down the MENU button for one second or more. "MENU" is displayed and the menu mode is turned on.
2. Press the ►► button repeatedly until the Dimmer function appears in the display. Press the ◄◄ button to search in the other direction. The function setting is indicated by "Dimmer ON" or "Dimmer OFF" in the display, indicated that the current dimmer setting is on or off, respectively.

3. **Switching settings**
   - Press either the AM or FM button. The display and setting will change.

4. Press the MENU button to end the menu mode.

Automatic Dimmer Function

The display dims when the car's lights are turned on.

**NOTE**
The dimmer function is not available for units if the dimmer cable is not connected.

TEL Mute

Shut down the audio system temporarily whenever an incoming call is received.

**NOTE**
The function will not work if a cable is not connected to the car phone.

**When the telephone rings:**
When a call is received, "CALL" is displayed and all the unit functions are temporarily interrupted.

**Restoring Original Unit Source During Phone Call:**
- Press the SRC button.
  - "CALL" disappears from the display, and the volume of the original source is restored gradually.

**Turning TEL Mute Function Off After Phone Call:**
- Hang the phone up.
  - "CALL" disappears from the display.
  - The original source (i.e., the one used before the phone call) is returned to automatically, and the volume restored gradually.
Selectable Illumination
You can switch the colour of the button illumination between green and amber.

1 Hold down the MENU button for one second or more. "MENU" is displayed and the menu mode is turned on.

2 Press the ▶▶ button repeatedly until the Selectable Illumination function appears in the display.
   Press the ◄◄ button to search in the other direction.
   The function setting is indicated by "Color Green" or "Color Amber" in the display, indicating that the current colour is green or amber, respectively.

3 Switching settings
   Press either the AM button or FM button.
   The display and setting will change.

4 Press the MENU button to end the menu mode.

Non-fading preout

Turning non-fading output On/Off:
Hold down the NF button for one second or more to set the function ON or OFF.
"NF ON" is displayed when the non-fading output is set ON.

NOTE
The beep sound is not output from the preout jacks.
Other features

Adjusting Time

With automatic time adjustment, you can set the clock time automatically according to time data sent from RDS stations (after receiving RDS signals for several minutes). You can also set the time manually if the automatic time adjustment function is turned off. The factory default is automatic time adjustment.

Adjusting Time Automatically:
- Tune into an RDS station for 3 or 4 minutes.
- The time adjusts automatically to the correct local time.

NOTE
The time is not adjusted when the RDS station you are tuned to is not transmitting a time signal. Choose another RDS station in such a case.

Turning Automatic Time Adjustment On/Off:
1. Hold down the MENU button for one second or more. "MENU" is displayed and the menu mode is turned on.
2. Press the ► button repeatedly until the Automatic Time Adjustment function appears in the display.
   - Press the ◀ button to search in the other direction.
   - The function setting is indicated by "SYNC ON" or "SYNC OFF" in the display, indicating that the Automatic Time Adjustment is on or off, respectively.
   - "SYNC ON" (Automatic time adjustment)
   - "SYNC OFF" (Manual time adjustment)

3. Switching settings
   - Press either the AM button or FM button.
   - The display and setting will change.

4. Press the MENU button to end the menu mode.

Adjusting Time Manually:
1. Turn off the Automatic Time Adjustment as mentioned above.
2. Hold down the MENU button for one second or more.
   - "MENU" is displayed and the menu mode is turned on.
3. Press the ► button repeatedly until the "Clock Adj" appears in the display.
   - Press the ◀ button to search in the other direction.

4. Hold down either the AM or FM button for two seconds or more to enter the Time Adjustment mode.
   - The time display will blink.

5. • Adjusting the hours
   - Press the FM button to advance the hours, or press the AM button to make the hours go back.
   • Adjusting the minutes
   - Press the ► button to advance the minutes, or press the ◀ button to make the minutes go back.

6. Press the MENU button to end the menu mode.

Mask Key

If you have transmitted the Mask Key's signal once to the unit in advance, you will have to transmit it once again if the unit has been removed from the battery. This function helps prevent theft.

When using the unit for the first time:
In order to deactivate the demonstration mode, be sure to press the transmit button to transmit the Mask Key's signal. If this procedure is not carried out, the control panel of the unit will re-open in two seconds even with your vehicle’s ignition turned off.

1. Hold down the MENU button for one second or more.
   - "MENU" is displayed and the menu mode is turned on.
2. Press the ► button repeatedly until the "Mask key" appears in the display.
   - Press the ◀ button to search in the other direction.
3. Hold down either the AM or FM button for two seconds or more.
   - "TRANSMIT 1" will appear in the display, indicating the setting mode has been entered.
4. Hold down the transmit button on the Mask key until the full transmit level indicator lights up in the display.
   - "TRANSMIT 2" will be displayed.
Press the \( \text{\textdagger} \) button repeatedly until the Dual zone system function appears in the display. Press the \( \text{\textlangle} \) button to search in the other direction.

The function setting is indicated by "Zone 2 ON" or "Zone 2 OFF" in the display, indicating that the Dual zone system function is on or off, respectively.

### Switching settings
Press either the AM or FM button. The display and setting will change.

### Pressing the MENU button to end the menu mode.

**NOTE**

- You must purchase the optional KCA-S210A/CA-C1AX/KDC-CPS82/KDC-CX82 device before you can use this function.
- You can choose to send the AUX input through the rear channel, and the unit's tuner or MD source through the front channel.
- The Bass, Treble and Loudness adjustments do not affect the rear channel.
- When the Dual zone system is turned on, the External disc control features cannot be used.
- When you set the Dual zone system to on whilst the non-fading preout is switched on, the sound of the non-fading preout does not be outputted.

---

### Dual Zone System

The following operation allows separate sound sources to control the output of the front and rear speakers. The Dual zone system can only be switched on or off when the source is set to the AUX mode.

#### Turning the Dual zone system On/Off:

1. Hold down the MENU button for one second or more. "MENU" is displayed and the menu mode is turned on.

2. Press the \( \text{\textdagger} \) button repeatedly until the Dual zone system function appears in the display. Press the \( \text{\textlangle} \) button to search in the other direction.

3. The function setting is indicated by "Zone 2 ON" or "Zone 2 OFF" in the display, indicating that the Dual zone system function is on or off, respectively.

4. Press the MENU button to end the menu mode.

**NOTE**

- You must purchase the optional KCA-S210A/CA-C1AX/KDC-CPS82/KDC-CX82 device before you can use this function.
- You can choose to send the AUX input through the rear channel, and the unit's tuner or MD source through the front channel.
- The Bass, Treble and Loudness adjustments do not affect the rear channel.
- When the Dual zone system is turned on, the External disc control features cannot be used.
- When you set the Dual zone system to on whilst the non-fading preout is switched on, the sound of the non-fading preout does not be outputted.
Other features

Faceplate Angle Adjustment
You can adjust the faceplate angle for easy viewing.

Adjusting faceplate angle:
Press the EJECT button to make the faceplate slide open, and then adjust the faceplate angle using the angle adjustment switch. Adjustment may be made from 0 to 2.

NOTE
- Firmly slide the switch until it clicks.
- Do not apply excessive force to the faceplate under settings 1 or 2.

Manual Open Switch Setting
By sliding the Manual Open Switch during forced closing, you can open the control panel. Follow the directions below to preset the number of times that this switch needs to be slid in order to open the panel.

To preset the number of times to slide the Manual Open Switch:
1. Press the MENU button for at least one second. "MENU" is displayed and the menu mode is turned on.
2. Press the button repeatedly until the Manual Open Switch Setting function appears in the display. Press the button to search in the other direction. The function setting is indicated by "Open SW #" in the display, indicating that the Manual Open Switch Setting mode is on.

3 Switching settings
Press either the AM or FM button. Press the FM button to change the setting number of times higher, and press the AM button to change it lower. Settings may be made from 1 to 3.

4 Press the MENU button to end the menu mode.

NOTE
The "#" display in the Manual Open Switch Setting mode will differ depending on the setting. The initial setting value is "1".

Black Mask
This function allows you to turn off the lower part of the display if there is too much information in the display.

Turning the Black Mask On/Off:
1. Hold down the MENU button for one second or more. "MENU" is displayed and the menu mode is turned on.
2. Press the button repeatedly until the Black Mask function appears in the display. Pressing the button results in the functions being switched in the reverse order. The function setting is indicated by "BLK MASK ON" or "BLK MASK OFF" in the display, indicating that the Black mask is on or off, respectively. "BLK MASK ON" (The display will turn on by using only the part for letter display.) "BLK MASK OFF" (The display will turn on by using the whole part of the display.)

3 Switching settings
Press either the AM or FM button. The display and setting will change.
4 Press the MENU button to end the menu mode.
**Dimmer level adjustment**

You can adjust the Dimmer level of the unit separately when your car’s light switch has been turned on or off.

**To adjust the Dimmer level:**

1. Hold down the MENU button for one second or more. "MENU" is displayed and the menu mode is turned on.

2. Press the ► button repeatedly until the Dimmer level adjustment function appears in the display. Press the ◄ button to search in the other direction. The function setting is indicated by "Bright ##" in the display, indicating that the Dimmer level adjustment mode is on.

3. **Switching settings**

   Press either the AM or FM button. Press the FM button to change the setting values higher, and press the AM button to change them lower. Settings may be made from 0 to 10.

4. Press the MENU button to end the menu mode.

**NOTE**

The "##" display in the Dimmer level adjustment mode will differ depending on the setting. The initial setting value whilst your car’s light switch is turned on is "5", and whilst the light is turned off is "10".

---

**External Amp Control**

Adjust the bass boost level of the external amplifier using the main unit.

**Switching the bass boost level:**

1. Hold down the MENU button for one second or more. "MENU" is displayed and the menu mode is turned on.

2. Press the ► button repeatedly until the External amp control function appears in the display. Press the ◄ button to search in the other direction. The function setting is indicated by "AMP BASS Flat", "AMP BASS +6", or "AMP BASS +12" in the display, indicating that the external amplifier bass boost level is flat, +6dB, or +12dB, respectively.

3. **Switching settings**

   Press either the AM or FM button. The display and setting will change.

4. Press the MENU button to end the menu mode.

**NOTE**

As of December 1998, the power amplifiers controllable by the main unit are as follows:

KAC-X501F/PS501F/X401M/PS401M/X301T/PS301T/X201T/PS201T

---

**Navigation Mute Function**

When the KENWOOD Navigation System is connected, an interruption of the audio guide results in the temporary lowering of the audio level.

**NOTE**

The Navigation mute function cannot be used unless a TEL mute cable is connected to the KENWOOD Navigation System.
Basic Operations of steering remote control

**WARNING**
To prevent accidents, do not attempt to use the steering remote control whilst turning the steering wheel.

**Loading and Replacing the Lithium Battery:**
Use one lithium battery (CR2025). Insert the battery with the + and – poles aligned properly, following the illustration.

**WARNING**
Store unused lithium batteries out of the reach of children. Contact a doctor immediately if the battery is accidentally swallowed.

### Basic operations

- **SRC button**
  Each time you press the SRC button, the mode switches as follows:
  
  - Tuner mode
  - MD mode
  - External disc control mode
  - AUX mode

**NOTE**
- The mode switches to the next mode from any mode which cannot be used.
- The external disc control mode will differ depending on the unit that is connected.
Press the 4 button to search through the tracks backwards.
Press the  ◄ button to search through the tracks forwards.

• DISC buttons (for disc changers)
  Press the AM/DISC–button to search through the discs backwards.
  Press the FM/DISC +button to search through the discs forwards.

• TRACK buttons

**MD/External disc control features**

• DISC buttons (for disc changers)
  Press the AM/DISC—button to search through the discs backwards.
  Press the FM/DISC +button to search through the discs forwards.

• TRACK buttons

**Tuner features**

• TUNE buttons
  Press the 4 button to make decreasing seeks (using the preset tuning mode).
  Press the ◄ button to make increasing seeks (using the preset tuning mode).

• FM button
  Selects and switches between the FM1, FM2 and FM3 bands.

• AM button
  Selects the MW and LW bands.

• ATT button
  Turns down the volume quickly. To return the volume to its original level, press the button again. Turning down the volume all the way also cancels attenuation.

— 35 —
The use of any accessories except for those provided might result in damage to the unit. Make sure only to use the accessories shipped with the unit, as shown above.

### Installation Procedure

1. To prevent short circuits, remove the key from the ignition and disconnect the terminal of the battery.
2. Make the proper input and output cable connections for each unit.
3. Connect the cable on the wiring harness.
4. Take Connector B on the wiring harness and connect it to the speaker connector in your vehicle.
5. Take Connector A on the wiring harness and connect it to the external power connector on your vehicle.
6. Connect the wiring harness connector to the unit.
7. Install the unit in your car.
8. Reconnect the terminal of the battery.

9. Slide the Manual open switch for as many times as you have preset in the Manual Open Switch Setting in the menu (see p.32) to make the faceplate control panel appear. Then press the Reset button.

### CAUTION

- If your car is not prepared for this special connection-system, consult your KENWOOD dealer.
- Only use antenna conversion adapters (ISO-JASO) when the antenna cord has an ISO plug.
- Make sure that all cable connections are securely made by inserting jacks until they lock completely.
- If your vehicle’s ignition does not have an ACC position, or if the ignition cable is connected to a power source with constant voltage such as a battery cable, the power will not be linked with the ignition (i.e., it will not turn on and off along with the ignition). If you want to link the unit’s power with the ignition, connect the ignition cable to a power source that can be turned on and off with the ignition key.
- If the fuse blows, first make sure that the cables have not caused a short circuit, then replace the old fuse with one with the same rating.
- Do not let unconnected cables or terminals touch metal on the car or anything else conducting electricity. To prevent short circuits, also do not remove the caps on the ends of the unconnected cables or the terminals.
- Connect the speaker cables correctly to the terminals to which they correspond. The unit may receive damage or fail to work if you share the cables and/or ground them to any metal part in the car.
- After the unit is installed, check whether the brake lamps, indicators, wipers, etc. on the car are working properly.
- Insulate unconnected cables with vinyl tape or other similar material.
- Some disc changers need conversion cables for connection. See the section on "Safety Precautions" for details.
- If the console has a lid, make sure to install the unit so that the faceplate does not hit the lid when closing and opening.
- Mount the unit so that the mounting angle is 30° or less.
## Connecting Cables to Terminals

### Connector Function Guide

<table>
<thead>
<tr>
<th>Pin Numbers for ISO Connectors</th>
<th>Cable Colour</th>
<th>Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>External Power Connector</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A-4</td>
<td>Yellow</td>
<td>Battery</td>
</tr>
<tr>
<td>A-5</td>
<td>Blue/White</td>
<td>Power Control</td>
</tr>
<tr>
<td>A-6</td>
<td>Orange/White</td>
<td>Dimmer</td>
</tr>
<tr>
<td>A-7</td>
<td>Red</td>
<td>Ignition (ACC)</td>
</tr>
<tr>
<td>A-8</td>
<td>Black</td>
<td>Earth (Ground)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connection</td>
</tr>
<tr>
<td>Speaker Connector</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-1</td>
<td>Purple</td>
<td>Rear Right (+)</td>
</tr>
<tr>
<td>B-2</td>
<td>Purple/Black</td>
<td>Rear Right (–)</td>
</tr>
<tr>
<td>B-3</td>
<td>Gray</td>
<td>Front Right (+)</td>
</tr>
<tr>
<td>B-4</td>
<td>Gray/Black</td>
<td>Front Right (–)</td>
</tr>
<tr>
<td>B-5</td>
<td>White</td>
<td>Front Left (+)</td>
</tr>
<tr>
<td>B-6</td>
<td>White/Black</td>
<td>Front Left (–)</td>
</tr>
<tr>
<td>B-7</td>
<td>Green</td>
<td>Rear Left (+)</td>
</tr>
<tr>
<td>B-8</td>
<td>Green/Black</td>
<td>Rear Left (–)</td>
</tr>
</tbody>
</table>

### Connector A

- A-4 Pin (Yellow)
- Battery cable (Yellow)
- Ignition cable (Red)
- A-7 Pin (Red)
- TEL mute cable (Brown)

### Connector B

- Power control cable (Blue/White)
- Fuse (10A)
- DC/DC converter box (Wrap the cushion (accessory③) around this box.)

### Wiring harness (Accessory③)

- Non-fading left output (White)
- Rear left output (White)
- Rear right output (Red)
- Non-fading right output (Red)
- Front right output (Red)
- Front left output (White)

### Display Data Output Jack

- Outputs data representing the unit’s current state, causing it to appear in the external display.
- To connect to this jack, a converting adapter (optional) is necessary.

### NOTE

- To connect the Disc changer or DAB unit, consult each manual.
- Display Data Output Jack outputs data representing the unit’s current state, causing it to appear in the external display.
- To connect to this jack, a converting adapter (optional) is necessary.

### CAUTION

- Power control cable (Blue/White)
- When using the optional power amplifier, connect to its power control terminal.
- Connect to the terminal that is grounded when the telephone rings or during conversation.
- If no connections are made, do not let the cable come out from the tab.

*NOTE* separate this box from the unit and antenna cords. If they are too close, it may cause the reception to get noise.

*NOTE* to connect the KENWOOD navigation system, consult your navigation manual.
Connecting the ISO Connector (see p.37)
The pin arrangement for the ISO connectors depends on the type of vehicle you drive. Make sure to make the proper connections to prevent damage to the unit.
The default connection for the wiring harness is described in 1 below. If the ISO connector pins are set as described in 2 or 3, make the connection as illustrated.

**WARNING**

1. (Default setting) The A-7 pin (red) of the vehicle’s ISO connector is linked with the ignition, and the A-4 pin (yellow) is connected to the constant power supply.
   - **Unit**
     - Ignition cable (Red)
     - Battery cable (Yellow)
   - **Vehicle**
     - A-7 Pin (Red)
     - A-4 Pin (Yellow)

2. The A-7 pin (red) of the vehicle’s ISO connector is connected to the constant power supply, and the A-4 pin (yellow) is linked to the ignition.
   - **Unit**
     - Ignition cable (Red)
   - **Vehicle**
     - A-7 Pin (Red)
   - **Unit**
     - Battery cable (Yellow)
   - **Vehicle**
     - A-4 Pin (Yellow)

3. The A-7 pin (red) of the vehicle’s ISO connector is not connected to anything, whilst the A-4 pin (yellow) is connected to the constant power supply (or both the A-7 (red) and A-4 (yellow) pins are connected to the constant power supply).
   - **Unit**
     - Ignition cable (Red)
   - **Vehicle**
     - Connect to a power source that can be turned on and off with the ignition key.
   - **Unit**
     - Battery cable (Yellow)
   - **Vehicle**
     - A-4 Pin (Yellow)

Connecting Cables to Terminals

**NOTE**

Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (eg, the sound may skip).

**CAUTION**

To attach this unit, make sure the front of the control panel faces you and fit it into the mounting sleeve by pressing the four corners of the hard rubber frame at the same time.
Do not apply strong pressure to other sections than the corners; otherwise troubles such as the impossibility of opening or closing the panel may result.
Removing the hard rubber frame

Insert the removal tool into the indentations in the hard rubber frame, and pull it gently until the lock is released.

Removing the Unit

1. Make the faceplate control panel appear.

   **NOTE**
   When the control panel of the faceplate is hidden, the unit will be locked by the sleeve, making it more difficult to remove the unit.

2. Refer to the section “Removing the hard rubber frame” and then remove the hard rubber frame.

3. Remove the screw (M4x8) on the back panel.

4. Insert the removal tool deeply, as illustrated, with the L on the left and the R on the right.

   Screw (M4x8) (commercially available)

5. Push upward the both tools, as shown, and pull the unit toward you until it is halfway out. The unit may drop if you pull it out completely.

6. Pull the unit all the way out with your hands, being careful not to drop it.
Attaching Steering Remote Control

**Mounting Example**

Attach the operation section and the light emitting section of the Steering Remote Control as shown above. Be sure to attach them to positions that can ensure proper operation.

**CAUTION**

- Clean dirt and oil from the positions where the Steering Remote Control sections are to be attached.
- If the attached position is cold, warm it before attaching.
- The position should be selected so that the product does not come in the way of steering operation.
- Do not attach anything on the surface of a steering wheel incorporating an air bag.
- Before finally affixing the transmitter, check various angles to find an orientation that provides faithful operation.
## Troubleshooting Guide

What might appear to be a malfunction in your unit may just be the result of slight misoperation or miswiring. Before calling service, first check the following table for possible problems.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>The power does not turn on.</td>
<td>The fuse has blown.</td>
<td>After checking for short circuits in the cables, replace the fuse with one having the same rating.</td>
</tr>
<tr>
<td></td>
<td>No ACC position on vehicle ignition.</td>
<td>Connect the same cable to the ignition as the battery cable.</td>
</tr>
<tr>
<td>No sound can be heard, or the volume is low.</td>
<td>The Attenuator function is turned on.</td>
<td>Turn off the Attenuator function.</td>
</tr>
<tr>
<td></td>
<td>The fader and/or balance settings are set all the way to one side.</td>
<td>Reset the fader and/or balance settings.</td>
</tr>
<tr>
<td></td>
<td>The input/output cables or wiring harness are connected incorrectly.</td>
<td>Reconnect the input/output cables and/or the wiring harness correctly. See the section on “Connecting Cables to Terminals”.</td>
</tr>
<tr>
<td>Nothing happens when the buttons are pressed.</td>
<td>The computer chip in the unit is not functioning normally.</td>
<td>Press the reset button on the unit (see page 4).</td>
</tr>
<tr>
<td>The sound quality is poor or distorted.</td>
<td>A speaker cable may be pinched by a screw in the car.</td>
<td>Check the speaker wiring.</td>
</tr>
<tr>
<td></td>
<td>The speakers are not wired correctly.</td>
<td>Reconnect the speaker cables so that each output terminal is connected to a different speaker.</td>
</tr>
<tr>
<td>Radio reception is poor.</td>
<td>The car antenna is not extended.</td>
<td>Pull out the antenna all the way.</td>
</tr>
<tr>
<td></td>
<td>The antenna control cable is not connected.</td>
<td>Connect the cable correctly, referring to the section on “Connecting Cables to Terminals”.</td>
</tr>
<tr>
<td>The memory is erased when the ignition is turned off.</td>
<td>The battery cable has not been connected to the proper terminal.</td>
<td>Connect the cable correctly, referring to the section on “Connecting Cables to Terminals”.</td>
</tr>
<tr>
<td></td>
<td>The ignition and battery cable are incorrectly connected.</td>
<td>Connect the cable correctly, referring to the section on “Connecting Cables to Terminals”.</td>
</tr>
<tr>
<td>The TEL mute function does not work.</td>
<td>The TEL mute cable is not connected properly.</td>
<td>Connect the cable correctly, referring to the section on “Connecting Cables to Terminals”.</td>
</tr>
<tr>
<td>The TEL mute function turns on even though the TEL mute cable is not connected.</td>
<td>The TEL mute cable is touching a metal part of the car.</td>
<td>Pull the TEL mute cable away from the metal part of the car.</td>
</tr>
<tr>
<td>MD mode cannot be set.</td>
<td>The faceplate was closed whilst the MD was being ejected.</td>
<td>Press the eject(▲) button and reinsert the MD.</td>
</tr>
<tr>
<td>The MD cannot be inserted.</td>
<td>There is already an MD loaded.</td>
<td>Eject the currently loaded MD and then load the new one.</td>
</tr>
<tr>
<td>The MD does not load.</td>
<td>The insertion orientation of the MD is incorrect or the MD is upside down.</td>
<td>Insert the MD in the proper orientation.</td>
</tr>
</tbody>
</table>
## Troubleshooting Guide

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>The MD loads but soon comes out again.</td>
<td>Nothing is recorded on the MD.</td>
<td>Replace the MD with one that is recorded.</td>
</tr>
<tr>
<td>The sound skips.</td>
<td>The mounting angle exceeds 30°.</td>
<td>Adjust to an angle of less than 30°.</td>
</tr>
<tr>
<td></td>
<td>The mounting is unstable.</td>
<td>Fix the unit securely. When the sound skips at the same portion even when the car is stopped, the problem lies with the MD.</td>
</tr>
<tr>
<td>There is noise during playback.</td>
<td>The MD is soiled with dust or dirt.</td>
<td>If another MD is played back and there is no problem, then the problem is due to the sound quality of the MD itself.</td>
</tr>
<tr>
<td>The specified track does not play.</td>
<td>Random play has been selected.</td>
<td>Turn off the random play function.</td>
</tr>
</tbody>
</table>

### External disc control mode

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>The disc control mode cannot be selected.</td>
<td>No cable has been connected to the disc changer input terminal on the unit.</td>
<td>Connect the cable to the disc changer input terminal on the unit.</td>
</tr>
<tr>
<td>The specified disc does not play, but another one plays instead.</td>
<td>The specified CD is very dirty.</td>
<td>Clean the CD.</td>
</tr>
<tr>
<td></td>
<td>The CD is upside-down.</td>
<td>Load the CD with the labelled side up.</td>
</tr>
<tr>
<td></td>
<td>The disc is loaded in a different slot from that specified.</td>
<td>Eject the disc magazine and check the number for the specified disc.</td>
</tr>
<tr>
<td></td>
<td>The disc is severely scratched.</td>
<td>Try another disc instead.</td>
</tr>
<tr>
<td>The sound skips.</td>
<td>Something is touching the disc changer.</td>
<td>Remove whatever is touching it.</td>
</tr>
<tr>
<td></td>
<td>The CD is scratched or dirty.</td>
<td>If skipping happens at the same place when the car is stopped, something is wrong with the CD. Clean the CD.</td>
</tr>
<tr>
<td>The display shows that the changer is being played, but no sound can be heard.</td>
<td>The computer chip in the unit is not functioning normally.</td>
<td>Press the reset button on the unit (see page 4).</td>
</tr>
<tr>
<td>The specified track does not play.</td>
<td>Random play or magazine random play has been selected.</td>
<td>Turn off the random play or magazine random play function.</td>
</tr>
</tbody>
</table>

### If the following situations, consult your nearest service centre:

- Even though the disc changer is connected, the Disc Changer Mode is not on, with "AUX" showing in the display during the Changer Mode.
- Even though no device (KCA-S210A, CA-C1AX, KDC-CPS82 or KDC-CX82) is connected, the AUX Mode is entered when switching modes.
The following messages are displayed when certain problems are occurring in your system. Take the recommended actions.

**EJECT**
No disc magazine has been loaded in the changer. The disc magazine is not completely loaded.
⇒ Load the disc magazine properly.

No CD in the unit.
⇒ Insert the CD.

**NO DISC**
No disc has been loaded in the disc magazine.
⇒ Load a disc into the disc magazine.

**E-04**
No disc has been loaded in the disc magazine.
⇒ Load a disc into the disc magazine.
The CD is very dirty. The CD is upside-down. The CD is scratched a lot.
⇒ Clean the CD and load it correctly.

**BLANK**
Nothing has been recorded on the MD.
⇒ The next MD is automatically played back

**NO TRACK**
No tracks are recorded on the MD, although it has a title.
⇒ The next MD is automatically played back.

**NO PANEL**
The faceplate of the slave unit being connected to this unit has been removed.
⇒ Replace it.

**E-77**
The unit is malfunctioning for some reason.
⇒ Press the reset button on the unit. If the "E-77", code does not disappear, consult your nearest service centre.

**E-99**
Something is wrong with the disc magazine. Or the unit is malfunctioning for some reason.
⇒ Check the disc magazine. And then, press the reset button on the unit.
If the "E-99" code does not disappear, consult your nearest service centre.

**HOLD**
The protective circuit in the unit activates when the temperature inside the automatic disc changer exceeds 60°C (140°F), stopping all operation.
⇒ Cool down the unit by opening the windows or turning on the air conditioner. As the temperature falls below 60°C (140°F), the disc starts playing again.

**IN**
Nothing has been recorded on the MD you are trying to play.
⇒ Replace this MD with one that has been recorded.
The MD player section is not operating properly.
⇒ Reinsert the MD. If the MD cannot be ejected or the display continues to flash even when the MD has been properly reinserted, please switch off the power and consult your nearest service centre.
Specifications

Specifications subject to change without notice.

**FM tuner section**
- Frequency range (50 kHz Space): 87.5 MHz – 108.0 MHz
- Usable sensitivity (S/N=26dB): 0.7 µV/75 Ω
- Quieting Sensitivity (S/N=46dB): 1.6 µV/75 Ω
- Frequency response (±3.0 dB): 30 Hz – 15 kHz
- Signal to Noise ratio (MONO): 65 dB
- Selectivity (DIN) (400kHz): ≥ 80 dB
- Stereo separation (1 kHz): 35 dB

**MW tuner section**
- Frequency range (9kHz Space): 531 kHz – 1611 kHz
- Usable sensitivity (S/N=20dB): 25 µV

**LW tuner section**
- Frequency range: 153 kHz – 281 kHz
- Usable sensitivity (S/N=20dB): 45 µV

**MD player section**
- Laser diode: GaAlAs (λ=780 nm)
- Digital filter (D/A): 8 Times Over Sampling
- D/A Converter: 1 Bit
- Spindle speed: 400 – 900 rpm (CLV)
- Wow & Flutter: Below Measurable Limit
- Frequency response (±1 dB): 20 Hz – 20 kHz
- Total harmonic distortion (1 kHz): 0.01 %
- Signal to Noise ratio: 90 dB (1 kHz)
- Dynamic range: 90 dB
- Channel separation: 85 dB

**Audio section**
- Maximum output power: 44 W × 4
- Output power (DIN 45324, +B=14.4V): 28 W × 4
- Tone action
  - Bass: 100 Hz ±10 dB
  - Treble: 10 kHz ±10 dB
- Preout level / Load: 4000 mV/10 kΩ (During CD play)
- Preout impedance: 80 Ω

**General**
- Operating voltage: 14.4 V (11 – 16 V allowable)
- Current consumption: 10 A
- Installation size (W × H × D): 182 × 53 × 162 mm
- Weight: 1.9 kg

Specifications subject to change without notice.