KENWOOD

KRC-953
KRC-903

CASSETTE RECEIVER
INSTRUCTION MANUAL
AMPLI-TUNER-LECTEUR DE CASSETTE
MODE D'EMPLOI
RADIO CASETE
MANUAL DE INSTRUCCIONES

KENWOOD CORPORATION

Take the time to read through this instruction manual.
Familiarity with installation and operation procedures will help you obtain the
best performance from your new cassette-receiver.

For your records
Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your KENWOOD dealer for information or service on the product.

Model KRC-953/903 Serial number _____

Contents

Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion — and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:
* Start your volume control at a low setting.
* Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:
* Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Decible Level   **Example**

Decible Level	Example
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.

THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.

⚠WARNING

To prevent injury or fire, take the following precautions:

- Insert the unit all the way in until it is fully locked in place. Otherwise it may fall out of place when jolted.
- When extending the ignition, battery, or ground wires, make sure to use automotive-grade wires or other wires with a 0.75mm² (AWG18) or more to prevent wire deterioration and damage to the wire coating.
- To prevent a short circuit, never put or leave any metallic objects (such as 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.
- Do not touch the liquid crystal fluid if the LCD is damaged or broken due to shock. The liquid crystal fluid may be dangerous to your health or even fatal.
  If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

⚠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 a short circuit when replacing a fuse, first disconnect the wiring harness.
- Do not place any object between the faceplate and the unit.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.

IMPORTANT INFORMATION

You cannot connect the unit directly to the following CD automatic changers. If you 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 cord.

- **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 cord.

- **C705i / C705si**

  Use the extension cable attached to the CD changer, and the optional CA-K300 converter cord.

- **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.

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, press "the touch-sensitive spot" at the rear of the faceplate (as illustrated on p.10) 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.
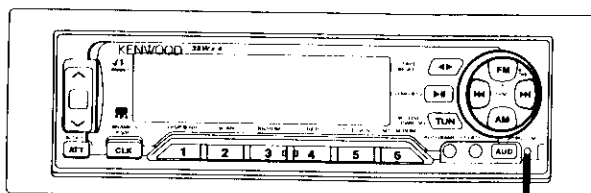
Reset button

- We recommend the use of the Security Code function (see p.28) to prevent theft.

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

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 hard 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.

Cleaning the Tape Head

After you have listened to many cassettes over a long period of time, magnetic powder from the tapes and dust accumulates on the tape head, causing noise and a deterioration in sound quality. Clean the tape head using a cleaning tape or cleaning kit designed for use in car audio systems.

Handling Cassette Tapes

- Do not play a cassette whose tape has gone slack. In such a case, wind it tight using a pencil or the like in one of the spools. Playing slack cassette tapes can result in the tape tangling around the capstan and/or pinch rollers, causing trouble.
- Do not play a deformed cassette or one whose label is starting to come off, as it can cause the unit to malfunction.
- Do not leave tapes in hot places, such as on dashboards and other spots exposed to direct sunlight, or near heater outlets. They can deform the cassette.
- Avoid using extremely long cassette tapes, such as 100-minute-long tapes. Such tapes are very thin, and can tangle easily around the pinch rollers or other parts inside the unit, causing unit failure.
- Remove a cassette tape from the unit when not listening to it for a while. If you leave a tape in the unit too long, it may stick to the tape head and cause unit malfunction.

English

Basic operations

ATT/LOUD

TUN
CLOSE/PWR OFF

ATT indicator

LOUD indicator

Tuner features

TUN   ◄◄   FM/CRSC   ►►

CLK/NAME. S   #1~6   AUTO/AME   AM

Band display   Preset station number

Frequency

Seek indicator   ST indicator   AUTO indicator

RBDS features diagram labels:

- ◄◄
- FM
- ►►|
- CLK PS/RT
- #1~6
- PTY/TI
- AM

Cassette player features diagram labels:

- TUN
- CD•MD
- TAPE/◄►/EJECT
- FM
- ►►|
- B NR
- BS
- REP
- TC
- MTL
- |◄◄
- AM

RBDS display labels:

- TP indicator
- TA indicator
- Seek indicator
- PTY indicator
- AF indicator
- TI indicator

Display shows: POWER FM FMᴵᴵᴵ

Cassette display labels:

- Play indicator
- T.C indicator
- Tape side
- Number of tracks to skip
- TAPE indicator
- B NR indicator
- MTL indicator
- B.S indicator
- REP indicator

Display shows: TAPE

Buttons and Display

Disc changer control features

NAME. S   CD•MD/▶ ll   DISC+ ▶▶l

SCAN   REP   M.RDM

DISP   RDM   D.SCN   l◀◀   DISC−

Other features

CLK   TUN   l◀◀   FM   ▶▶l
         CLOSE/PWR OFF

#1   #3   #6
  #2   #4   AUD/ILLUM AM/NF

Track number

Track time/
Direct inputted track number/
Direct inputted disc number

SCN indicator

Play indicator

RDM indicator

REP indicator

Disc indicator

Disc number

Clock display

#0~9
A~Z

TUNE +
►►I
TRACK +

TUNE –
I◄◄
TRACK –

AM
REW
DISC –

FM
FF
DISC +

KENWOOD

CD

TUNE
TRACK

REW   DISC –

REMOTE CONTROL UNIT

TUNER

TAPE

DIRECT
OK

CD·MD CH

DNPP

VOL.

∧
∨

PROG
►II
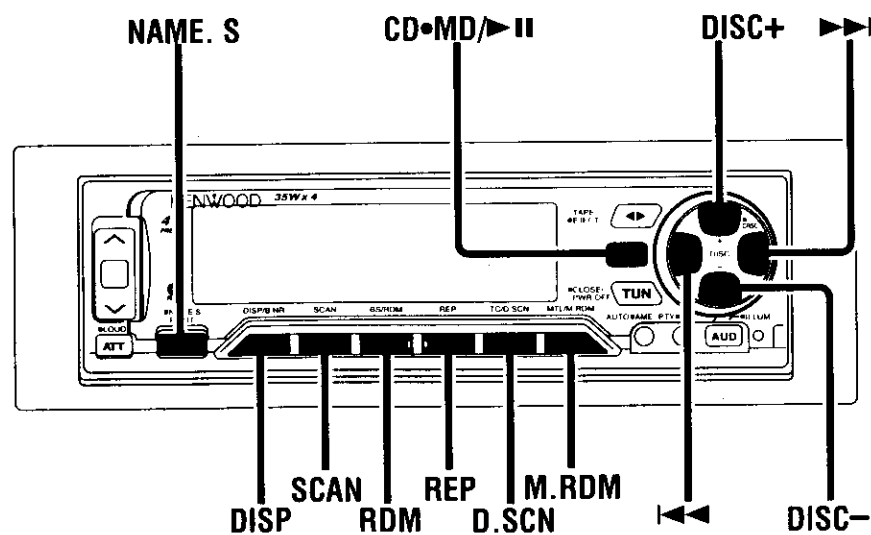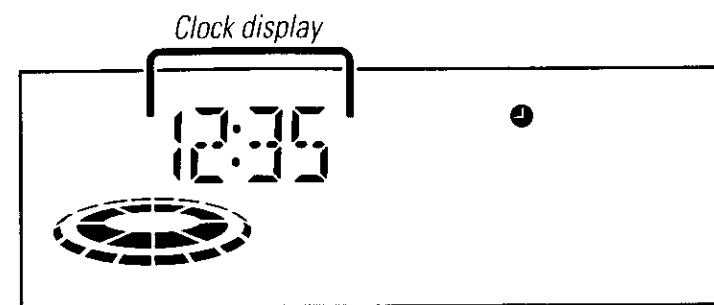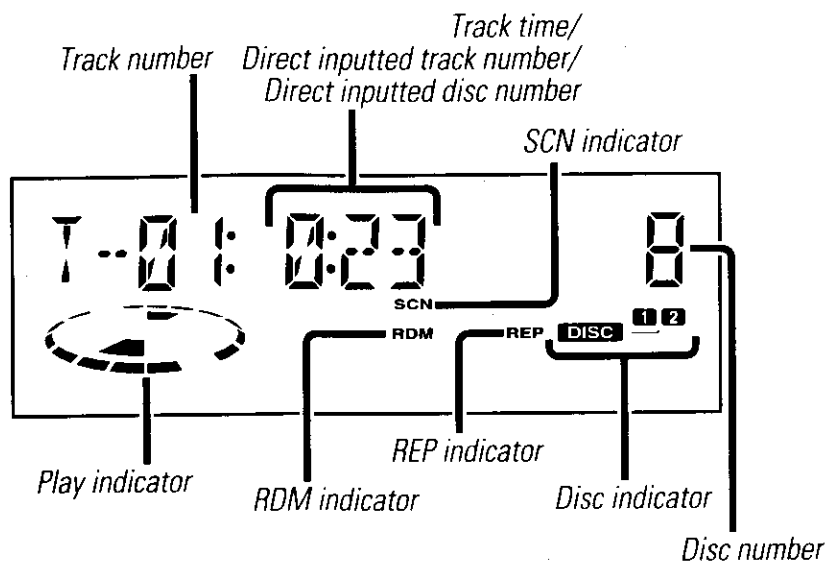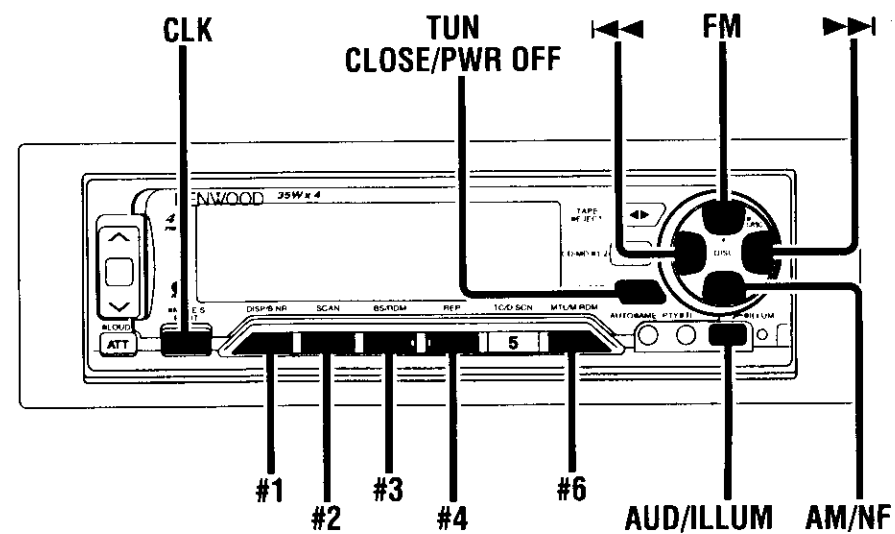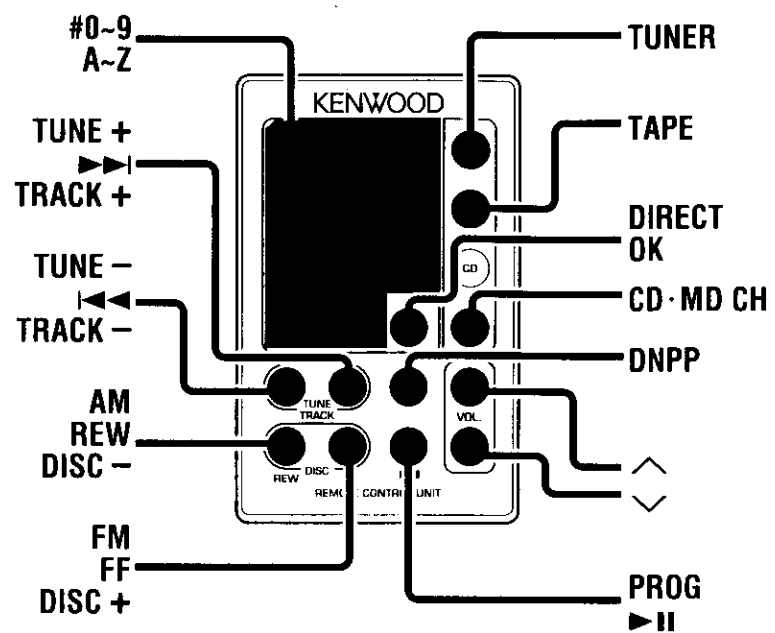
Stealth Retraction Mechanism

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 |
• The first time you use the unit, you need to press "the touch-sensitive spot" at the rear of the faceplate. (as illustrated)
• 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 while 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):
Keep pressing the CLOSE/PWR OFF button for at least one second.
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 TUN button to turn the unit back on, then turn it off again to have it close properly.
• While the control panel is moving, pressing the buttons will not have any effect. Do not try to press the buttons on the control panel as the faceplate is moving, as excessive force may damage the unit.
• During the forced closing of the unit (i.e., having the unit left

closed while ignition is turned on), the faceplate will not open no matter how often the ignition is turned on or off, unless "the touch-sensitive spot" at the rear of the faceplate is pressed in order to open it. You can prevent tampering of the unit when letting someone else drive your car by keeping it closed this way.

To cancel the stealth retraction mechanism's forced closing of unit and open control panel:
Press "the touch-sensitive spot" at the rear of the faceplate. (as illustrated)

Selecting the standby mode:
Press the TUN button repeatedly and switch to "ALL OFF."
When "ALL OFF" is displayed, the standby mode is activated. The standby mode turns all functions off while leaving the power to the unit on. Use this mode when you want to have the display illuminated but don't want to listen to anything.

Touch-sensitive spot
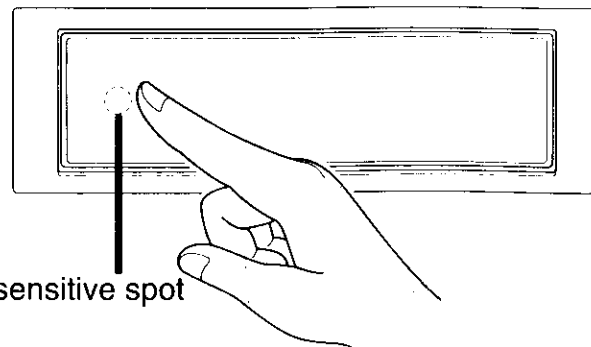
| NOTE | Touch-sensitive spot
The invisible switch is hiding behind the touch-sensitive spot. Press the hollow spot (invisible switch) to open.

Volume

Increasing Volume:

Press the ∧ button to turn up the volume.

Decreasing Volume:

Press the ∨ button to turn down the volume.

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 on, the ATT indicator blinks.
When the attenuator is off, the volume returns to the original level.

NOTE

Turning the volume all the way down deactivates 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:

Press the LOUD button for at least one second to switch the loudness on and off.

NOTE

The loudness function does not affect non-fading pre-out.

Basic operations of remote (See page 9)

⚠CAUTION

Do not set the remote on hot places such as above the dashboard.

Replacing the Lithium Battery:
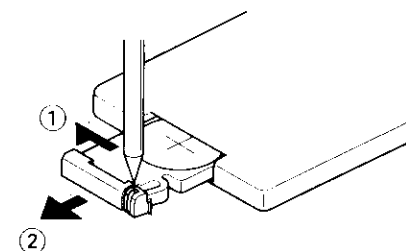
Use one lithium battery (CR2025).
Remove the case following the instructions as illustrated.

To open

① Keep on slide

② Pull out.

Insert the battery with the + and − poles aligned properly, following the illustration inside the case.

⚠WARNING

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

English

All Modes

- **VOL. buttons**
  Press the ∧ button to turn the volume up.
  Press the ∨ button to turn the volume down.

- **TUNER button**
  Selects the tuner mode. Pressing this button again selects the standby mode.

- **TAPE button**
  Selects the tape mode.

- **CD•MD CH button**
  Selects the disc changer mode. When two disc changers are connected to the unit, the disc changer mode will be split into disc changer mode 1 and disc changer mode 2, and each press of this button switches between them.

  NOTE

  The KCA-S200, which is sold separately, must be used when two disc changer units are connected.
  When the KDC-C810 is the directly connected disc changer (disc changer 1), two units may be controlled even without the KCA-S200.

Tuner Mode

- **Number/ letter entry buttons**
  Press buttons #1-6 to recall preset stations.
  During direct access tuning, use these buttons to input the frequency of the station.
  Use to enter letters (alphabetical) during station name preset.

- **TUNE buttons**
  Press the I◄◄ button to make decreasing seeks (using the preset tuning mode).
  Press the ►►I button to make increasing seeks (using the preset tuning mode).
  Use to move the cursor left or right during station name input.

- **AM/FM button**
  Press the AM button to select the AM band.
  Press the FM button to select and switch between FM1, FM2, and FM3 bands.
  During station name input, selects digits and symbols.

- **DIRECT/OK button**
  Selects the direct access tuning mode, used to input frequencies directly. Press this button again to cancel the mode while it is operating.
  During station name input, stores the already input data in memory and ends the input mode.
  During Station name preset play mode, selects station.

- **DNPP button**
  Enters and cancels the Station Name Preset Play mode.

Tape Mode

- **T.ADV buttons**
  Press the I◄◄ button to start play again at the beginning of the current track.
  Press the ►►I button to start play at the beginning of the next track.

- **REW button**
  Rewinds the tape.

- **FF button**
  Fast forwards the tape.

- **PROG button**
  Plays the reverse side of the tape. When pressed during fast forward and rewind, this button stops the tape and starts playing it.

Disc Changer Mode

- **Number/ letter entry buttons**
  Used to specify the track (disc) number used in direct track (disc) searches.
  Use to enter letters during disc name preset.

- **TRACK buttons**
  Press the TRACK— button to search through the tracks backward.
  Press the TRACK+ button to search through the tracks forward.
  Use to move the cursor while entering disc name.

- **DISC buttons**
  Press the DISC— button to search through the discs backward.
  Press the DISC+ button to search through the discs forward.
  Select numbers and symbols while entering disc name.

- **▶II button**
  When a disc is playing, this button pauses the play.
  Press the same button again to start play again.

- **OK buttons**
  During disc name input, stores the already input data in memory and ends the input mode.
  Selects disc during the disc name preset play mode.

- **DNPP button**
  Enters and cancels the Disc Name Preset Play mode.

Tuner features (See page 6)

Tuning

You can choose from three tuning modes: auto seek, preset station seek, and manual. The "Auto1" indicator lights up when auto seek tuning is selected, and the "Auto2" indicator lights when preset station seek tuning is selected.

Selecting Tuning Mode:
Press the AUTO button.
Each time you press the AUTO button, the mode switches as follows.

AUTO 1   (Auto Seek Tuning)

AUTO 2   (Preset Station Seek Tuning)

MANUAL (Manual Tuning)
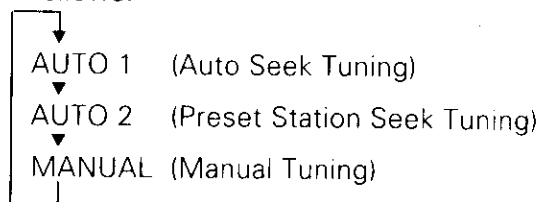
Tuning:

1 Press the TUN button to turn the radio on.

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 (which are used for groups of preset stations).
Press the AM button to select the AM band.

3 • Auto Seek Tuning
  Press the ▶▶I button to seek higher frequencies.
  Press the I◀◀ button to seek lower frequencies.
  • Preset station seek tuning
  Press the ▶▶I button to move to the next preset station (i.e., the one with the next highest number), and the I◀◀ button to move to the last preset station (i.e., the one with the next lowest number).
  • Manual Tuning
  Press the ▶▶I button to increase the frequency by one step.
  Press the I◀◀ button to decrease the frequency by one step.

| NOTE |

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

Station Name Preset Play (SNPP)

You can search for the station for any station if its name has been preset using Station Name Preset.

1 Press the DNPP button on the remote.
"SNP PLAY" will be displayed once the station name preset play mode is entered.
The names of the stations preset in the band currently listened to are displayed for five seconds each. The display band switches in the following order:

FM1 ↔ FM2 ↔ FM3 ↔ AM

Each time you press the ►►I button, the station display switches in the forward direction.
Each time you press the I◄◄ button, the station display switches in the reverse direction.
Stations whose names have not been stored will be displayed as frequencies.
The program service name will appear for RBDS stations.

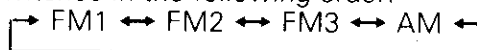[NOTE] Changing the Displayed Band
Pressing the FM button switches between the FM1, FM2, FM3 and AM displays, in that order.
Pressing the AM button switches between the displays in the reverse direction.

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 station name preset play mode ends.

Canceling mode during input:
Press the DNPP button.
The station name preset play mode is canceled.

RBDS (Radio Broadcast Data System)

**RBDS is a service used by radio stations to transmit data outside normal radio broadcast signals.
When an RBDS station is received, you can immediately find out what kind of data is being transmitted by looking at the program service name, which appears in the display after the frequency.
The AF indicator turns on when an RBDS station is being received.**

Alarm

**When an emergency transmission (announcing disasters, etc.) is made, the current function will be interrupted to allow the warning to be received under the following conditions:
during tuner reception, or when the Traffic Information function is turned on.**

Program Type (PTY) Function

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

To enter the program type selection mode:
1 Press the PTY button.
The PTY indicator lights up once the program type selection mode is entered.

[NOTE]
You cannot use this function while the traffic information function is turned on.

2 **Select the type of program to be received**
• Press either the FM or AM buttons repeatedly to select the type of program you want to listen to.
The selection includes:
Speech ‹ › 1.News(NEWS) ‹ › 2.Information(INFORM) ‹ ›
3.Sports(SPORTS) ‹ › 4.Talk(TALK) ‹ › 5.Rock(ROCK) ‹ ›
6.Classic Rock(CLS ROCK) ‹ › 7.Adult Hits(ADLT HIT) ‹ ›
8.Soft Rock(SOFT RCK) ‹ › 9.Top 40(TOP 40) ‹ ›
10.Country(COUNTRY) ‹ › 11.Oldies(OLDIES) ‹ ›
12.Soft(SOFT) ‹ › 13.Nostalgia(NOSTALGA) ‹ › 14.

Jazz(JAZZ) ‹ › 15.Classical(CLASSICL) ‹ › 16.R&B(R&B) ‹ ›
17.Soft R&B(SOFT R&B) ‹ › 18.Language(LANGUAGE) ‹ ›
19.Religious Music(REL MUSC) ‹ › 20.Religious Talk(REL
TALK) ‹ › 21.Personality(PERSNLTY) ‹ › 22.Public(PUBLIC)
‹ › Music ‹ › Speech ‹ ›
(Speech.....1~4, 18, 20~22, Music.....5~17, 19)

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

| 1. *Music* | 2. *Speech* | 3. News |
| 4. Sports | 5. Classical | 6. Jazz |

NOTE Changing the Preset Button Settings for Program Type

After selecting the type of program to be stored in a certain
preset button, hold down that button for at least two seconds.
The previously stored data for that button are erased and the
new program type is stored.

3 *Seeking the Selected Program Type*

Press the |◄◄ or ►►| button to make a seek of frequencies
with your selected type of program.
The display blinks and the seek starts.
If your selected type of program is found, the name or the
frequency of the station is displayed and the station is tuned
into.
The PTY indicator 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 program can be found, "NO PTY" is displayed.
If you want to select another type of program, repeat steps 2 and
3 above.

Switching to Other Stations with the Same Type of Program:

When the PTY indicator is blinking in the display, perform auto
seek tuning.
The tuner scans for another station with the same type of
program.

Canceling Program Type Function During Its Operation:

Press the PTY button.

To register a non-RBDS station as a program type:

1 Tune your radio to the non-RBDS station that you want to
register as the program type.

2 Press the PTY button to enter the program type selection
mode.

3 Press the FM/AM button to select the program type you want
to register. Follow the instructions in 2 to enter the program
type selection mode.

4 Press the CLK button for at least two seconds.
The station will be registered as a program type, allowing it to
be the target of frequency seeks just as RBDS stations are.

NOTE

You can store up to 32 stations.
If you try to store a 33rd station, the frequency and program type
will appear alternately in the display.
In that case, press the FM/AM button to change the display to a
station that you want to erase, and then press the CLK button
again for at least two seconds. The newly entered station will
thus be stored.

5 Press the PTY button to end the program type selection mode.

Confirming Program Type You Registered:

Press the CLK button.
The program type of the station currently tuned to will be
displayed for five seconds. During that time, "E" will blink in the
display.

NOTE

• If you tune to frequencies for which no program type has been
stored, "NO ENTRY" will be displayed.
• All the program type you registered will be erased if you press
the RESET button.

English

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:

Press the TI button for at least one second to turn the function on and off.
When the function is on, the TI indicator is turned on.
When a traffic information station is being received, the TP indicator will turn on. When none is being received, the TI indicator will blink on and off.
When a traffic bulletin begins to be broadcast, the TA indicator will turn on.
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 while in the AM band automatically switches reception to the FM band. However, the AM band is not returned to when the TI button is pressed again.

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.

Radio Text

You can display textual information being transmitted by RBDS stations. The text is scrolled in the display.

Turning on Radio Text Display Mode:

Pressing the PS/RT button switches the display as follows. Select the Radio Text Display mode.

Station frequency
▼
Program Service name
▼
Radio text
▼
Clock
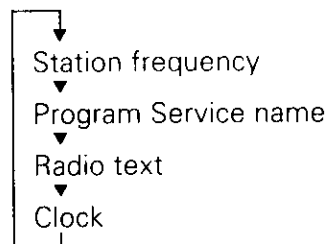
| NOTE |

If the RBDS station currently tuned to is transmitting no text while the Radio Text Display mode is turned on, "NO TEXT" will appear in the display. While awaiting reception, "WAITING" will scroll across the display.

| ⚠WARNING |

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

Cassette player features *(See page 7)*

Playing Cassette Tapes

Loading and Playing Cassettes:
Press the TAPE button to slide open the faceplate, showing the cassette (insertion) slot. Holding the cassette with the tape exposed to the right, insert in the slot.
The faceplate will show the control panel, and the tape will start playing.
With side A facing up, the ► indicator lights up when side A is playing, and ◄ when side B is playing.
The ►◄ indicator lights up while play is paused.

Playing Cassettes Already Loaded:
Press the TAPE button to start play.

Listening to the other side:
Press the ◄► button.
Tape play switches to the other side.

Stop / Eject:
Press the EJECT button for at least one second to stop tape play. The faceplate will slide to eject the tape.
Press the TAPE, CD•MD or TUN button to show the control panel.

NOTE

• The sound will be temporarily muted while the faceplate is moving.
• The only buttons that will work during the eject state are the TAPE, CD•MD, and TUN buttons, as well as the volume control button.
• Remove a cassette from the unit when not listening to it for a while. If you leave it in the unit too long, the tape may stick to the tape head and cause unit malfunction.
• The faceplate is a piece of precision equipment.
Do not keep the faceplate open and subject it to excessive force during its opening and moving.

Fast Forwarding and Rewinding Cassette Tapes

Fast Forwarding Tapes:
Press the FM button.
The tape indicator blinks in the direction of the tape as it is being fast forwarded.

With side A facing up, you see:
-►-(side A fast forwarding) -◄-(side B fast forwarding)

Rewinding Tapes:
Press the AM button.
The tape indicator blinks in the direction of the tape as it is being rewound.
With side A facing up, you see:
-◄-► (side A rewinding) ◄-►-(side B rewinding)

Canceling:
Press the ◄► button.
Normal tape play will begin.

Using Dolby B Noise Reduction

Listen to tapes recorded using Dolby B NR.

Turning Dolby B Noise Reduction On/Off:
Press the B NR button to switch Dolby B NR on and off.
The B NR indicator lights up when it is turned on.

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

Switching Tape Types

Select type of tape being played.

Switching Tape Types:
Press the MTL (Metal) button to switch the metal tape indicator on and off and to select the tape type.
Turn the MTL indicator off for normal tape (Type I) playback.
Turn the MTL indicator on for the following tape types:
CrO₂ (Type II) FeCr (Type III) Metal (Type IV)
Selecting the wrong tape type may cause sound quality to suffer.

Cassette player features (See page 7)

Blank Skip

Automatically fast forward to the beginning of the next track when long blank spaces (10 seconds or more) are detected, continuing tape playback. The B.S indicator lights up when blank skip is turned on.

Turning Blank Skip On/Off:
> Press the BS button to switch blank skip on and off.

| NOTE |

- If the blank space contains a lot of noise, blank skip may not work right.
- Sections that are recorded at low levels may trigger blank skip if they last for 10 seconds or more.

Tuner Call

Switch automatically to the tuner while you are rewinding or fast forwarding the tape.

Turning Tuner Call On/Off:
> Press the TC button to switch tuner call on and off.
> The T.C indicator lights up when tuner call is turned on.

| NOTE |

When you turn on the Tuner Call function, the motorized antenna will extend automatically.

Tape Advance

Rewinds to the beginning of the track currently being listened to (or fast forwards to the beginning of the next track), continuing tape playback.

Rewinding tape to the beginning of current track:
> Press the I◄◄ button, and the tape will rewind to the beginning of the current track and automatically start playing again.

To advance to the beginning of the next track:
> Press the ►►I button, and the tape will advance to the beginning of the next track and automatically start playing again.

| NOTE |

Tape advance "knows" where a track begins by detecting the blank space preceding it (the space between tracks). However, when the blank space lasts for less than four seconds or contains noise, this function may not operate correctly. Furthermore, sections that are recorded at low levels may trigger the function if they last for four seconds or more.

Music Repeat

Repeatedly plays the track currently being listened to.

Turning Music Repeat On/Off:
> Press the REP button to switch music repeat on/off.
> The REP indicator lights up when music repeat is turned on.

Canceling Music Repeat:
> Press either the REP or ◄► button.

| NOTE |

Music repeat "knows" where a track begins by detecting the blank space preceding it (the space between tracks). However, when the blank space lasts for less than four seconds or contains noise, this function may not operate correctly. Furthermore, sections that are recorded at low levels may trigger the function if they last for four seconds or more.

English

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Disc changer control features (See page 8)

Playing Discs Using a Disc Changer

Playing Discs:
Press the CD•MD button.
The disc indicator lights up during disc changer mode.
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 Between Disc Changers:
When two disc changers are connected to the unit, press the CD•MD button for at least one second to switch from one to the other.

`NOTE`

The KCA-S200, which is sold separately, must be installed when two disc changers are connected.When the KDC-C810 is the directly connected disc changer (disc changer 1), two units may be controlled even without the KCA-S200.

Pausing and Restarting Disc Play:
Press the ►II button to make the disc pause.
Press the same button again to start play again.

Fast Forwarding and Reversing Disc Play

Fast Forwarding Disc Play:
Hold down on the ►►I button.
Release your finger to play the disc at that point.

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

`NOTE`

You cannot use reverse play between tracks when listening to an MD on the MD changer. Instead, the reverse play function is canceled when it reaches the beginning of a track, at which point normal play will automatically resume.

Switching Display for Discs

Switch the display that appears while discs are playing.

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

Track time/track no.
▼
Disc name
▼
Disc title (MD only)
▼
Track title (MD only)

`NOTE`

• You can give names to discs through the presetting disc name function (see p. 24).
• If you try to display the name of a disc that doesn't have one, "NO NAME" is displayed instead.
• When the source you are listening to is finished or interrupted (ex. switching the ignition position, changing the sources), the initial display will return.

Track Search

Search forward or backward through the tracks on the disc until you reach the one that you want to listen to.

Making a Reverse Track Search:
Press the I◄◄ 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 |
Pressing the I◄◄ button while listening to track 1 will only search 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 ►►I button to display the desired track number.
Press once to fast forward to the next track, twice to fast forward to the track after that, and so forth.
Play starts at the beginning of the displayed track number.

| NOTE |
You cannot make a forward track search when listening to the last track on a disc.

Disc Search

Search forward or backward through the discs in a disc changer.

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.

Function of Remote (See page 9)

Direct Track Search

Using the remote, directly input the track number that you want to listen to.

1 Using the number buttons on the remote, input the number of the track that you want to listen to.
The selected track number will blink in the display for 10 seconds.
If you make no further input in the 10-second period, the number entry mode will automatically be canceled.

2 Press either the TRACK+ or TRACK— button while the track number is blinking.
The track starts playing.

Canceling Direct Track Search While It Is Operating:
Press the ►II button.

| NOTE |
You cannot use the direct track search function while doing track or disc scans or using random or magazine-random play.

Function of Remote (See page 9)

Direct Disc Search

Using the remote, directly input the disc number that you want to listen to.

1 Using the number buttons on the remote, input the number of the disc that you want to listen to.
The selected disc number will blink in the display for 10 seconds.
If you make no further input in the 10-second period, the number entry mode will automatically be canceled.

- Input "0" to select disc 10.
- If you input more than two numbers all at once, a search will be made only of the last number input.

2 Press either the DISC+ or DISC− button while the number inputted is blinking.
The disc starts playing.

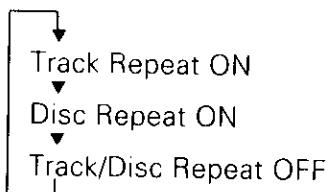**Canceling Direct Disc Search While It Is Operating:**
Press the ►II button.

Track / Disc Repeat

Repeat playing the track or the disc currently being listened to.

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

Track Repeat ON
▼
Disc Repeat ON
▼
Track/Disc Repeat OFF

The REP indicator lights up when repeat play is turned on.
The track number blinks in the display when track repeat is on.
The disc number blinks in the display when disc repeat is on.

NOTE
Repeat play is canceled 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.

Turning Track Scan On/Off:
Press the SCAN button to switch track scan on and off.
The SCN indicator lights up when track scan is turned on.
The first 10 seconds of each track will be played, in order.
The track number currently being heard blinks in the display.

Stopping to Listen to the Track Being Scanned:
Press the CD•MD or SCAN button again to stop the scan and keep on listening to a track normally.

NOTE
- Track scan is canceled when you stop playing a disc.
- Track scan only scans each track on a disc once.

Disc Scan

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

Turning Disc Scan On/Off:
Press the D.SCN button to switch disc scan on and off.
The SCN indicator lights up when disc scan is turned on.
The first 10 seconds of each disc will be played, in the order 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 CD•MD or D.SCN button again to stop the scan and keep on listening to the disc normally.

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

Random Play

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

1 Press the RDM button to switch random play on and off.
The RDM indicator lights up when random play is turned on.
The track number will change over and over in the display as the next track is being selected.
When the track has been selected, play will begin.
The selected track number blinks in the display as it is being played.

NOTE

When all the tracks on a certain disc have been played using random play, the next disc on the changer will start playing using the same function.

2 To change the track being heard, press the ►►I button.
Another track will be selected and played.

NOTE

Random play is canceled when you stop playing a disc.

Magazine Random Play

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

1 Press the M.RDM button to switch magazine random play on and off.
The RDM indicator lights up when magazine random play is turned on.
The disc and track numbers will change over and over in the display as the next track is being selected.
When the disc/track has been selected, play will begin.
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 ►►I button.
Another disc/track will be selected and played.

NOTE

• Magazine random play is canceled when you stop playing a disc.
• The time needed for random selection depends on the number of discs loaded in the disc magazine.

Presetting Disc Names

Store the names of discs to be displayed when played.

1 Play the disc whose name you want to preset.

NOTE

• 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 Press the NAME.S button for at least two seconds.
"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 I◄◄ or ►►I button to move the cursor to the desired position.
The I◄◄ button moves the cursor to the left, and the ►►I 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 Press the DISC+ or DISC− button to display the desired character.
Besides the alphabet (capital letters only) and numbers, you can choose the following characters: /, +, −, *, =, <, >, [and].

NOTE Direct Input
For units with KDC-C810, KDC-C710, KDC-C660 or KDC-C660C attached, you can directly input letters using the number/letter entry buttons on the remote.

Example: Use the following table to enter the name "DANCE".

Character	Button to press	# Times pressed
"D"	#3	1
"A"	#2	1
"N"	#6	2
"C"	#2	3
"E"	#3	2

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

| NOTE |

You can enter up to eight characters for each name.

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

| NOTE |

• With the CD changer, you can only store names for up to 100 CDs (The KDC-C710, KDC-C660 and KDC-C660C disc changers can store names for up to 50 discs.), and with the MD changer,you can only store names for up to 30 MDs. If you store the name for a 101st (51st) CD or 31st MD, the first name stored for the type of disc will be erased automatically.
• 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)

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.
"DNP PLAY" will appear in the display, and the disc name preset play mode is entered.
The names of all the discs in the disc changer will appear successively in the display for five seconds each. Discs whose names have not been preset will appear as "NO NAME" in the display.

| NOTE |

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.

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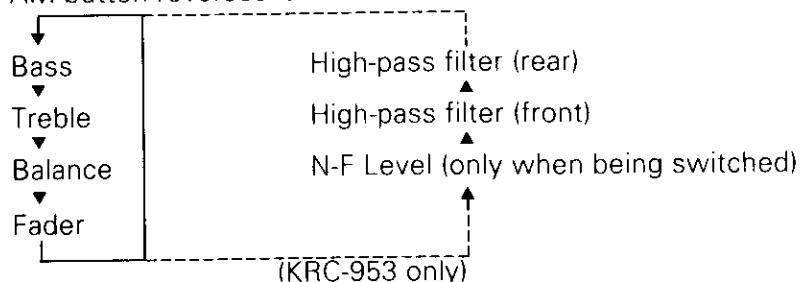
To cancel DNPP mode:
Press the DNPP button.
The disc name preset play (DNPP) mode will be canceled.

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
▼
Treble
▼
Balance
▼
Fader

High-pass filter (rear)
▲
High-pass filter (front)
▲
N-F Level (only when being switched)

(KRC-953 only)

[**NOTE**] Source tone memory
Each source (tape, FM, AM and disc changer) has its own memory in which to store the bass and treble tone settings. The settings made for a particular source are recalled automatically whenever you use that source (for example, FM mode uses the tone settings made for FM, AM for AM, etc.).

3 Press the I◄◄/►►I button.
Look at the table to adjust the mode being displayed.

4 Press the AUD button to end the control mode.

[**NOTE**] Setting the high-pass filter (KRC-953 only)
You can separately set the high-pass filter for front and rear output, including preouts. The high-pass filter works except during non- fading preout when switching to non-fading.
The factory default settings for front output and rear output are "through."

Table of Audio Control Setting

Adjustment mode (Display)	Operation of Audio control button	
	I◄◄ button	►►I button
Bass ("BAS")	Bass decreased.	Bass increased.
Treble ("TRE")	Treble decreased.	Treble increased.
Balance ("BAL")	Left channel emphasized.	Right channel emphasized.
Fader ("FAD")	Rear channel increased.	Front channel increased.
Non-Fading Preout Level ("NF")	Front and rear channels (including preout) emphasized.	Non-fading sound emphasized.
High-pass filter for front output ("HP F")	You can select the frequency to be cut, as follows: THR (through) ↔ 40Hz ↔ 60Hz ↔ 80Hz ↔ 100Hz ↔ 120Hz ↔ 150Hz ↔ 180Hz ↔ 220Hz	
High-pass filter for rear output ("HP R")	You can select the frequency to be cut, as follows: THR (through) ↔ 40Hz ↔ 60Hz ↔ 80Hz ↔ 100Hz ↔ 120Hz ↔ 150Hz ↔ 180Hz ↔ 220Hz	

☐ KRC-953 only

[**NOTE**]
The balance of the non-fading sound cannot be adjusted.

Selectable Illumination

You can switch the color of the button illumination between green and amber.

Switching the illumination:
    Press the ILLUM button for at least one second to switch between amber and green.

Function of the KRC-953

Non-fading Preout

Switch the front preout to non-fading. When you switch to non-fading, you can adjust the volume separately.

Switching front preout:
1 Press the TUN button repeatedly and switch the display to "ALL OFF" to enter the standby mode.

2 Press the #2 button for at least three seconds to switch the preout from front to non-fading or vice versa.
"NON-FAD" is displayed when non-fading is selected.

    NOTE

• When the front preout is switched to "non-fading", the level difference between this preout and the rear preout and front and rear channels can be adjusted. The "non-fading" preout level remains the same while the rear preout and front and rear channel levels decrease by the value set for the "non-fading" feature (see p.26).
• You cannot use the high-pass filter with non-fading preout.

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

    NOTE

If the preout is switched to non-fading, the non-fading preout is automatically set ON.

Adjusting Time

You can adjust the time manually. Also, with the automatic time adjustment function set at ON, you can set the clock time automatically according to time data sent from RBDS stations (after receiving RBDS signals for several minutes). The factory default is manual time adjustment.

Adjusting Time Manually:
1 When the time is not displayed, first press the CLK button to display the time.

2 While holding down the CLK button, press the |◄◄ or ►►| buttons to adjust the time.
The |◄◄ button adjusts the hour and the ►►| button adjusts the minutes.

    NOTE

Do not press the CLK button for two seconds or more, as it will change to the name preset mode.
Press the |◄◄ or ►►| button quickly to adjust the clock.

Turning Automatic Time Adjustment On/Off:
1 Press the TUN button repeatedly and switch the display to "ALL OFF" to enter the standby mode.

2 Press the #1 button for at least three seconds.
Each time you press the button, the automatic time adjustment function switches on and off.
"SYNC ON" (automatic time adjustment is on.)
"SYNC OFF" (automatic time adjustment is off.)

Adjusting Time Automatically:
    Tune to a RBDS station and receive the signal for several minutes.
    The clock will adjust automatically to the local time.

    NOTE

The clock will not adjust automatically if the RBDS station tuned to is not transmitting time data. In such a case, try another RBDS station.

Other features *(See page 8)*

Clock Display

Display the time.

Switching to Time Display:
Keep pressing the CLK button until the clock is displayed.

Security Code

When the battery is removed from the unit's power switch, you cannot turn on the unit again unless the preset security code is input. This function helps prevent theft.

NOTE

You must follow steps 1 to 7 to be able to use the Code Security function. Turning off the power during the procedure will deactivate the security code setting.
You cannot turn off the function after having completed these steps.

1 Select the four digits to use in your security code.

NOTE

The four-digit security code is very important, as you will need it to turn the unit on again when the code security function is on. Choose the number carefully and do not forget it (write it down and keep it separately in a safe place).

2 Press the TUN button repeatedly and switch the display to "ALL OFF" to enter the standby mode.

3 Press button #6 for at least three seconds.
"ENTER" will appear in the display for one second, indicating the code setting mode has been entered. When "CODE" appears in the display, you can start inputting the code.

4 Press the preset button and enter the security code that you have selected in step 1.

Example: Use "3510" as the security code.

Step	Button to press	# Times pressed	Display
1	#1	4	"3"
2	#2	6	"5"
3	#3	2	"1"
4	#4	1	"0"

5 Press the CLK button for at least three seconds.
The security code will be set.
"RE-ENTER" will appear in the display for one second, asking you to enter the code once again for confirmation. When "CODE" appears in the display, you can start inputting the code.

6 Press the preset button and input the security code again.

7 Press the CLK button again for at least three seconds.
"APPROVED" will appear in the display, with the code security function turning on. From this point on, if the unit is disconnected from the battery, the security code must be entered the first time that the unit's power is turned on.
"CODE" will appear in the display, asking you to input the code.

NOTE

If you input an incorrect security code, the display ask you once more to input the correct one. Follow the procedure in step 3 above.

If you press the RESET button or remove the battery:
The first time you turn the unit on again, "CODE" will appear in the display, asking you to input the security code.
Repeat steps 6 and 7 above, and input the security code.
You can start operating the unit again when "APPROVED" appears in the display.
If you enter the incorrect code, the power will turn off. Enter the correct code to turn the unit on.

Valet Mode

The faceplate will not appear as long as the switch is not changed, preventing tampering with the unit when you let someone else drive the car.

Connecting Valet Cable:

Connect the pink valet cable to the ON/OFF switch, while grounding the other side of the switch.

| NOTE |

- Make sure the unit is grounded properly, or else the unit may not operate correctly.
- We suggest you install the valet cable in a place where the ON/OFF switch is difficult to find.

Turning Valet Mode on:

1 Turn the ON/OFF switch on.

2 Turn the power off either by turning off the ignition or by pressing the CLOSE/PWR OFF button for at least one second. The valet function will turn on, and the faceplate will reverse to hide the control panel. In this condition, the unit cannot be turned on until the valet function is turned off.

| NOTE |

You can reverse the order of steps 1 and 2 and still activate the valet mode.
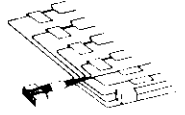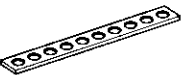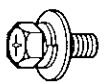
Canceling Valet Mode:
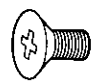
Turn the ON/OFF switch off.
Turn the ignition on, or press "the touch-sensitive spot" at the rear of the faceplate (see p.10) to make the control panel appear.

Accessories

External view		Number of items
①		1
②		1
③		2
④		1
⑤		2
⑥		2
⑦		1
⑧		1
⑨		1

⚠CAUTION

Do not use any accessories other than those provided with your unit. If you use other accessories, you may damage the unit.

Installation Procedure

1. To prevent a short circuit, remove the key from the ignition and disconnect the ⊖ battery.
2. Make the proper input and output wire connections for each unit.
3. Connect the speaker wires of the wiring harness.
4. Connect the wiring harness wires in the following order: ground, battery, ignition.
5. Connect the wiring harness connector to the unit.
6. Install the unit in your car.
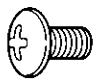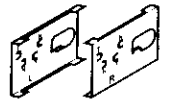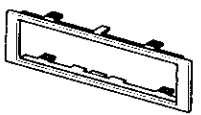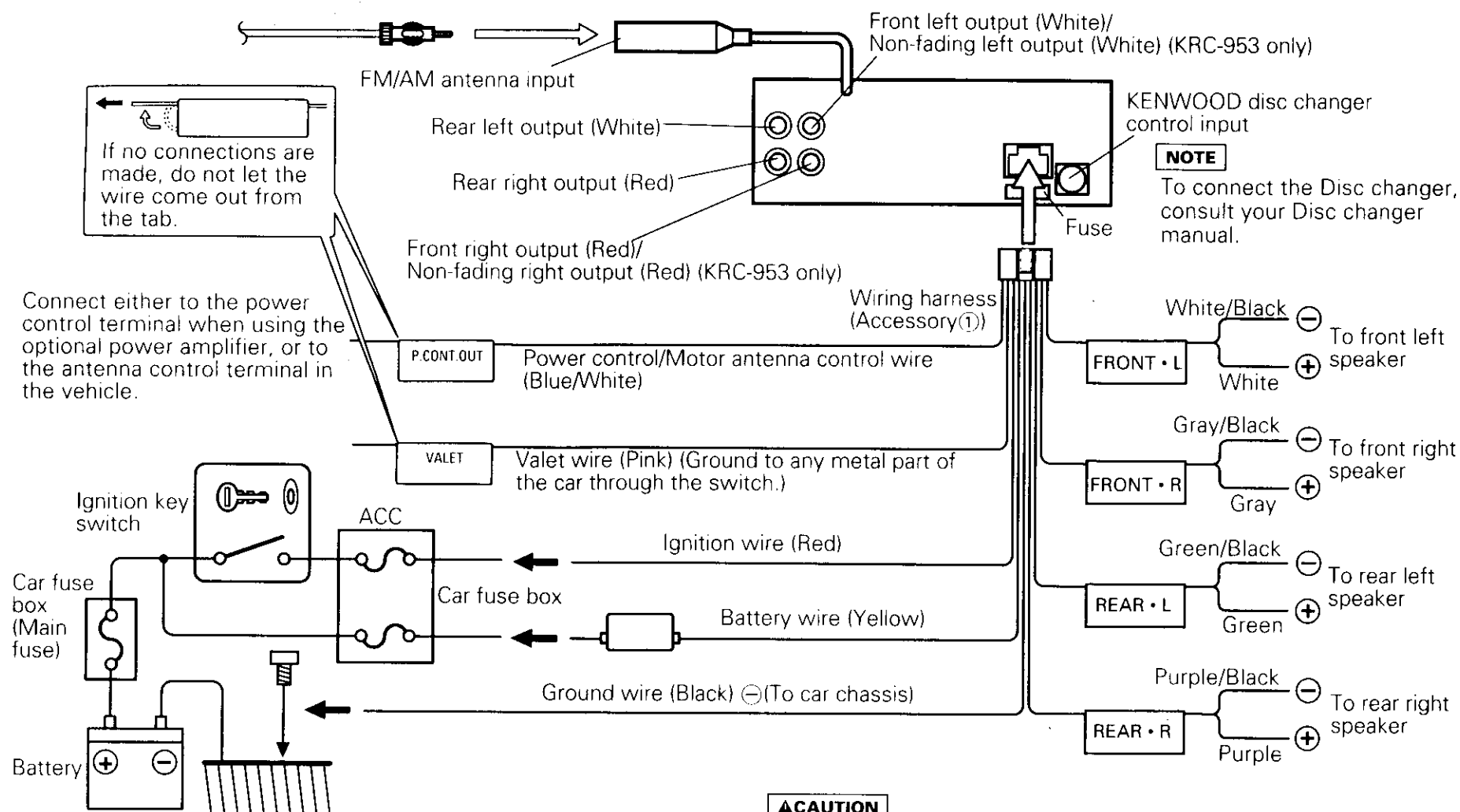7. Reconnect the ⊖ battery.
8. Press "the touch-sensitive spot" at the rear of the faceplate (see p.10) to make the faceplate control panel appear. Then press the Reset button.

⚠CAUTION

- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, as with battery wires, the battery may die.
- If the console has a lid, make sure to install the unit so that the faceplate will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.
- Do not let unconnected wires or terminals touch metal on the car or anything else conducting electricity. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the ⊖ wires or ground them to any metal part in the car.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Insulate unconnected wires with vinyl tape or other similar material.
- Some disc changers need conversion cords for connection. See the section on "Safety Precautions" for details.

Connecting Wires to Terminals

FM/AM antenna input

Front left output (White)/
Non-fading left output (White) (KRC-953 only)

Rear left output (White)

Rear right output (Red)

If no connections are made, do not let the wire come out from the tab.

Front right output (Red)/
Non-fading right output (Red) (KRC-953 only)

KENWOOD disc changer control input

NOTE

To connect the Disc changer, consult your Disc changer manual.

Fuse

Connect either to the power control terminal when using the optional power amplifier, or to the antenna control terminal in the vehicle.

P.CONT.OUT — Power control/Motor antenna control wire (Blue/White)

VALET — Valet wire (Pink) (Ground to any metal part of the car through the switch.)

Ignition key switch

ACC

Ignition wire (Red)

Car fuse box (Main fuse)

Car fuse box

Battery wire (Yellow)

Ground wire (Black) ⊖(To car chassis)

Battery ⊕ ⊖

Wiring harness (Accessory①)

FRONT · L — White/Black ⊖ To front left speaker / White ⊕

FRONT · R — Gray/Black ⊖ To front right speaker / Gray ⊕

REAR · L — Green/Black ⊖ To rear left speaker / Green ⊕

REAR · R — Purple/Black ⊖ To rear right speaker / Purple ⊕
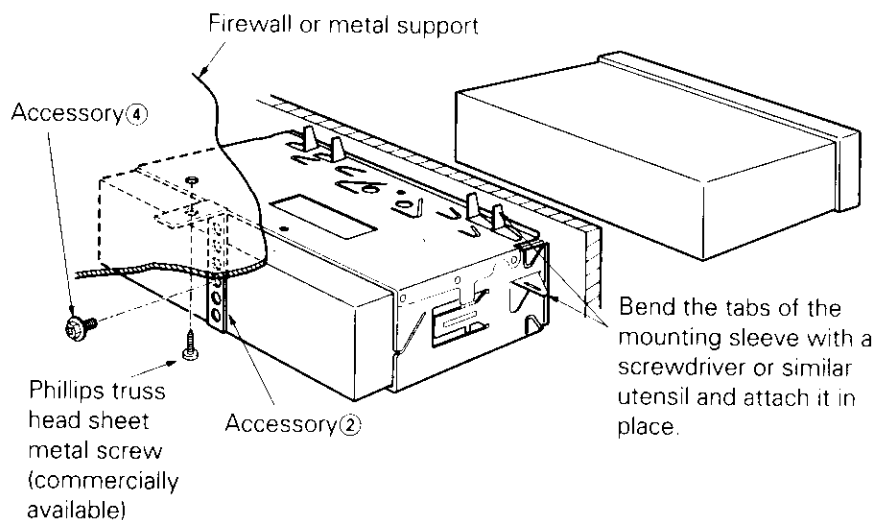
⚠WARNING

If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.

⚠CAUTION

When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). For example, if you connect the ⊕ connector of the left speaker to a front output terminal, do not connect the ⊖ connector to a rear output terminal.

■ Installation

Firewall or metal support

Accessory④

Phillips truss
head sheet
metal screw
(commercially
available)

Accessory②

Bend the tabs of the
mounting sleeve with a
screwdriver or similar
utensil and attach it in
place.

NOTE

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

■ Removing the hard rubber frame

1 Insert the removal tool⑨ deeply with the cut placed to the
right to remove the upper locks at an angle as shown below.

Lock

Accessory⑨
Removal tool

Cut
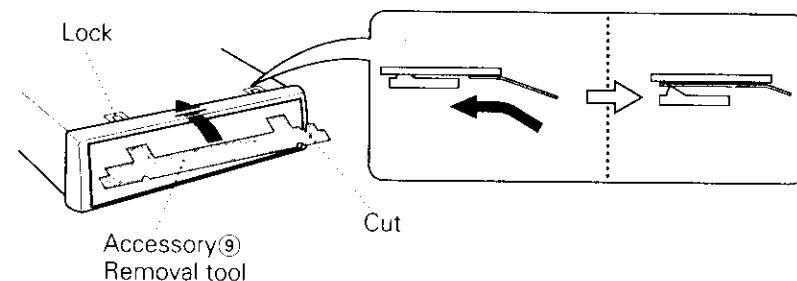
2 Engage the catches on the removal tool③ and remove the two
locks on the lower level, leaving the removal tool⑨ inserted on
the upper level. Use the removal tool facing the side covered
with the protective sheet to the faceplate.
Lower the frame and pull it forward as shown in the figure.

Accessory③
Removal tool

Lock

Catch
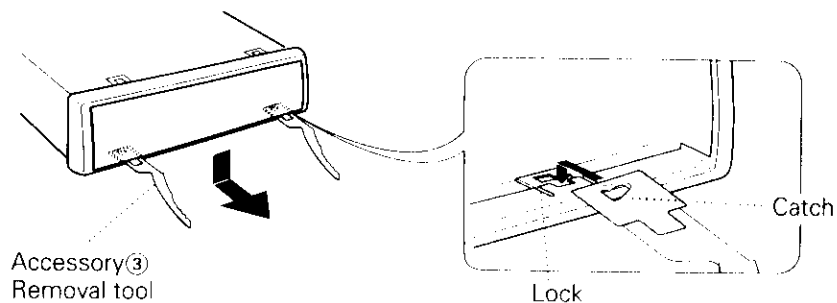
NOTE

You will feel (not hear) a click when the tabs lock securely.

English

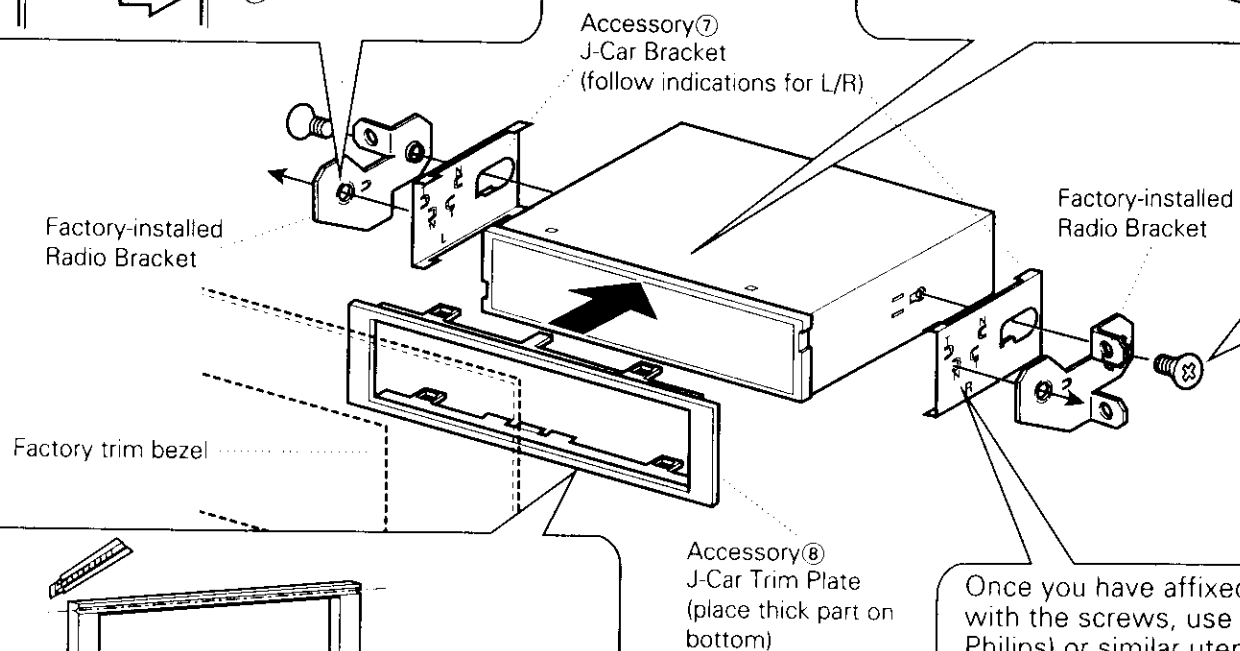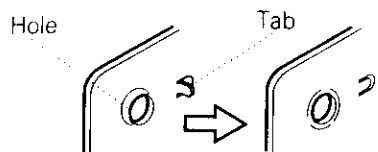## ■ Installing Radio Bracket in Japanese-made Cars (J-Cars)

On the factory-installed radio bracket, flatten all the tabs or holes that are not flush (except those used for screws), using a hammer or similar utensil.

Hole   Tab

Accessory⑦
J-Car Bracket
(follow indications for L/R)

Factory-installed
Radio Bracket

Factory-installed
Radio Bracket

After aligning the J-Car bracket with the factory-installed radio bracket, tighten the screws.

8mm   5mm   8mm   5mm
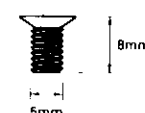
Accessory⑤   Accessory⑥
for Nissan car   for Toyota car
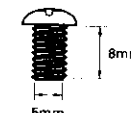
ACAUTION

Damage to the unit will result from using screws other than those provided.

Factory trim bezel

Accessory⑧
J-Car Trim Plate
(place thick part on bottom)

Once you have affixed the factory-installed radio bracket with the screws, use a standard-tipped screwdriver (not Philips) or similar utensil to pry the tabs of the J-Car bracket to make them fit into the holes in the factory-installed radio bracket (depending on the car make).
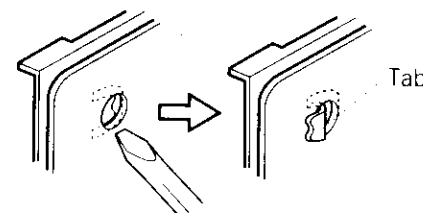
Installing in Toyota cars

If necessary, neatly cut the frame of the trim plate with an engarving knife or similar utensil, following the inner grooves on the top and bottom of the plate.

NOTE

You may have to cut the factory trim bezel as well if it interferes with the movement of the face plate.

Tab

N ... Nissan car
T ... Toyota car

English

■ Removing the Unit

1 Refer to the section "Removing the hard rubber frame"(p.32) and then remove the hard rubber frame.

2 Remove the hex head machine screw with washer (M4×8) on the back panel.

3 Insert the two removal tools at an angle and push them deeply into the slots on each side, as shown.

Accessory④

Accessory③
Removal tool
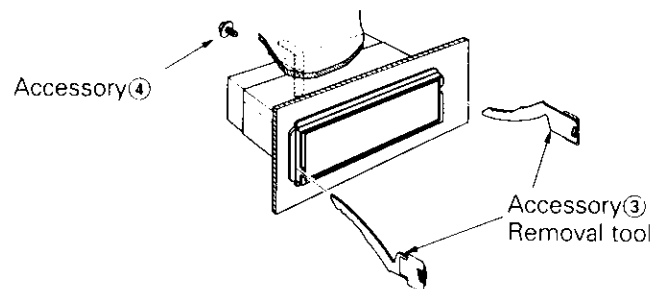
4 Push downward on the left-hand tool and the upward on the right-hand tool, as shown, and pull the unit toward you until it is halfway out. The unit may drop if you pull it out completely.
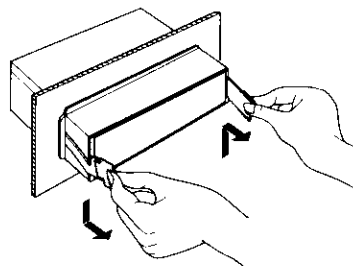
▲**CAUTION**

Be careful to avoid injury from the catch pins on the removal tool.

5 Pull the unit all the way out with your hands, being careful not to drop it.

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Troubleshooting Guide

What might seem 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.

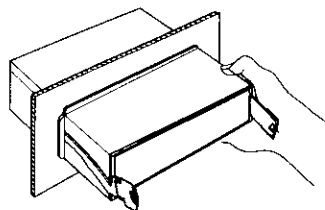| PROBLEM	POSSIBLE CAUSE	SOLUTION
The power does not turn on.	The fuse has blown.	After checking for short circuits in the wires, replace the fuse with one with the same rating.
No sound can be heard, or the volume is low.	Attenuator is turned on.	Turn off Attenuator.
	The fader or balance settings are set all the way to one side.	Reset the fader or balance settings.
	The input/output wires or wiring harness are connected incorrectly.	Reconnect the input/output wires or the wiring harness correctly. See the section on "Connecting Wires to Terminals".
	The cassette tape is bad.	Try playing another cassette tape. If works fine, the first tape was bad.
The tape does not go in. / No sound can be heard even though the tape display is made.	The car ignition was turned off during tape eject; or the tape was pulled out during loading, switching the mode to tape mode even though no tape is in.	Press the Eject button.
Nothing happens when the buttons are pressed.	The computer chip in the unit is not functioning normally.	Press the reset button on the unit (see p. 5).
The sound quality is poor or distorted.	The tape head is dirty.	Clean the tape head, referring to the section on "Cleaning the tape head" (see p.5).
	One of the speaker wires is being pinched by a screw in the car.	Check the speaker wiring.
	The speakers are not wired correctly.	Reconnect the speaker wires so that each output terminal is connected to a different speaker.
Radio reception is poor.	The car antenna is not extended.	Pull the antenna out all the way.
	The antenna control wire is not connected.	Connect the wire correctly, referring to the section on "Connecting Wires to Terminals".

English

PROBLEM	POSSIBLE CAUSE	SOLUTION
The memory is erased when the ignition is turned off.	The battery wire has not been connected to the proper terminal.	Connect the wire correctly, referring to the section on "Connecting Wires to Terminals".
The faceplate does not open or close.	The ambient temperature is too low.	Warm up your car.
	The valet mode is ON.	Turn off the valet mode.

Disc Changer

PROBLEM	POSSIBLE CAUSE	SOLUTION
The disc changer mode cannot be selected.	No cable has been connected to the disc changer input terminal on the unit.	Connect the cable to the disc changer input terminal on the unit.
The specified disc does not play, but another one plays instead.	The specified CD is quite dirty.	Clean the CD.
	The CD is upside-down.	Load the CD with the labeled side up.
	The disc is loaded in a different slot from that specified.	Eject the disc magazine and check the number for the specified disc.
	The disc is severely scratched.	Try another disc instead.
The sound skips.	Something is touching the disc changer.	Remove whatever is touching it.
	The CD is scratched or dirty.	If skipping happens at the same place when the car is stopped, something with the CD is wrong. Clean the CD.
The display shows that the changer is being played, but no sound can be heard.	The computer chip in the unit is not functioning normally.	Press the reset button on the unit (see p. 5).
The specified track will not play.	Random play or magazine random play has been selected.	Turn off random play or magazine random play.

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 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 quite 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 will automatically be played.

NO TRACK
No tracks are recorded on the MD, although it has a title.
⇨ The next MD will automatically be played.

E-77
E-99
The unit is malfunctioning for some reason.
⇨ Press the reset button on the unit. If the "E- 77", "E- 99" code does not disappear, consult your nearest service center.

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 will start playing again.

▶ ◀
If this indicator continues blinking, it is possible that the tape has become jammed or tangled.
⇨ Contact the Kenwood dealer if the cassette tape cannot be ejected.

Specifications

Specifications subject to change without notice.

FM tuner section
Frequency range (200 kHz Space) ....87.9 MHz – 107.9 MHz
Usable sensitivity (S/N = 30 dB) ....9.3 dBf (0.8 µV/75 Ω)
Quieting Sensitivity (S/N = 50 dB).............15.2 dBf (1.6 µV/75 Ω)
Frequency response (±3.0 dB) ....30 Hz – 15 kHz
Signal to Noise ratio (MONO) ....75 dB
Selectivity (±400 kHz) ....≥ 80 dB
Stereo separation (1 kHz) ....40 dB

AM tuner section
Frequency range (10 kHz space) ....530 kHz – 1700 kHz
Usable sensitivity (S/N = 20 dB) ....28 dBµ (25 µV)

Cassette player section
Tape speed ....4.76 cm/sec.
Wow & Flutter (WRMS) ....0.08 %
Frequency response (70 µs)......................30 Hz – 20 kHz (±3 dB)
Separation (1 kHz) ....43 dB
Signal to Noise ratio (Dolby B NR OFF)..............................57 dB
                        (Dolby B NR ON) ....65 dB

Audio section
Maximum output power ....35 W × 4
Full bandwidth power (at less than 1 % THD) ....20 W × 4
Tone action
    Bass: ....100 Hz ±10 dB
    Treble: ....10 kHz ±10 dB
Preout level / Load
                ....4 V / 10 k Ω (during disc changer mode)
Preout Impedance ....80 Ω

General
Operating voltage.............................14.4 V (11 – 16 V allowable)
Current consumption..................................10 A at Rated power
Installation size (W × H × D) ....182 × 53 × 161 mm
                                7-3/16 × 2-1/16 × 6-5/16 in.
Weight ....1.8 kg
                                                                          4.0 LBS