KENWOOD

KRC-702
KRC-602
KRC-502

CASSETTE RECEIVER
INSTRUCTION MANUAL

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-702/602/502 Serial number _____

© B64-0673-00 (KW) (MC)

Contents

⚠ Warning

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.

Before use

Basic operations

Basic operations of remote

Tuner features

Cassette player features

Disc changer control features

Other features

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

English 3

⚠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 diameter of 0.75mm² 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.
- 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 tatal. If the liquid crystal fluid from the LCD contacts your body or closing, 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 set the removed faceplate or the faceplate case in areas exposed to direct sunlight, 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.
- To prevent deterioration, do not touch the terminals of the unit or faceplate with your fingers.
- 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 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**
  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 doesn't seem to be working right, try pressing the reset button first. If that does not fix the problem, consult your Kenwood dealer.
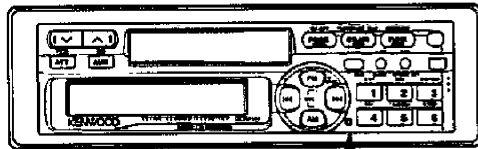
Reset button

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 Faceplate Terminals

If the terminals on the unit or faceplate get dirty, wipe them with a dry, soft cloth.

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 120-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 5

■ Tuner

- **Auto seek tuning (page 14)**

  Conducts automatic seeks of receivable stations. Useful when you do not know the frequencies of particular stations.

- **Station preset memory (page 15)**

  Stores the frequency of the station currently being listened to. You can then recall that station with a single touch of a button. Useful for stations that you listen to often.

- **Auto memory entry (page 15)**

  Automatically stores all the receivable stations in the band currently being listened to. You can then recall those stations with a single touch of a button. Useful when you do not know the stations in the area in which you are traveling. Up to six stations can be stored with this function.

- **Direct access tuning (page 17)**
  (Function of the Remote)

  When you know the frequency of the station that you want to listen to, you can input it directly for quick access.

- **Clean Reception System Circuit (CRSC) (page 16)**

  When poor stereo reception occurs while you are listening to the tuner, this function temporarily switches from stereo to mono reception to reduce the level of noise.

■ Tape player

• **Tape type selection (page 19)**

Select the type of tape being played, such as normal and metal (for example, CrO2).

• **Direct Program Search System (DPSS)(page 20)**

Allows you to skip to other tracks during playback, up to nine tracks in either direction.

• **DPSS using number buttons (page 21) (Function of the Remote)**

Specifies the exact number of tracks to be skipped using DPSS (see above). Only available with the number buttons on the remote.

• **Index scan (page 23)**

Plays the first few seconds of each track on the tape, helping you find the one that you want to listen to.

• **Music repeat (page 23)**

Repeatedly plays the track currently being listened to.

• **Blank skip (page 22)**

When long blank spaces (10 seconds or more) are detected, automatically fast forward the tape to the beginning of the next track, continuing tape playback.

• **Tuner call (page 22)**

Switches automatically to the tuner while you are rewinding or fast forwarding the tape, allowing you to listen to the radio.

Features

■ Disc changer control (changer optional)

- **Disc changer control (page 24)**
  Allows control of the disc changer (when attached) from the unit.

- **Disc changer switching unit control (option)**
  If the disc changer switching unit KCA-S200 which is sold separately is connected for the control function, two disc changers can be controlled by the main unit.

- **Track / Disc search (page 26/27)**
  Moves (forward or reverse) one track/disc each time the button is pressed, and plays that track/disc from the beginning.

- **Direct track/disc search (page 28/29) (Function of the Remote)**
  Using the number buttons on the remote, you can directly select the track number (or disc number) that you want to listen to.

- **Track repeat function (page 27)**
  Repeats the track currently being listened to.

- **Disc repeat function (page 27)**
  Repeats the entire disc currently being listened to.

- **Track scan function (page 30)**
  Successively plays the beginning of each track on the disc, allowing you to find the track that you want to listen to.

- **Disc scan function (page 31)**
  Successively plays the beginning of each track of each disc, allowing you to find the track that you want to listen to.

- **Random play function (page 31)**
  Plays all the tracks on the disc in random order.

- **Magazine random play function (page 32)**
  Plays tracks from all the discs in random order.

- **Presetting disc name (page 33)**
  You can give names to your discs. The name of the disc being played appears in the display automatically.

■ Other

- **Remote (page 12)**
  (Included with KRC-702, optional for KRC-602/502)
  Allows wireless remote control of the unit. Some functions are only available when you have a remote.

- **Steering wheel remote (option)**
  Allows remote control of the unit while your hands are on the steering wheel.

- **Attenuator (page 11)**
  Turns down the volume quickly.

- **Loudness control (page 11)**
  Amplifies low and high tones when the volume is turned down, for fuller sound quality.

- **Audio control setting (page 34/35) (KRC-702/602)**
  Allows for adjustment of bass, treble, balance, fader, and non-fading preout levels.

- **Audio control setting (page 34/35) (KRC-502)**
  Allows for adjustment of bass, treble, balance, and fader.

- **Selectable illumination (page 35) (Function of the KRC-702/602)**
  Switches the color of the display between green and amber.

- **Selectable display type (page 35) (Function of the KRC-702)**
  Switches the display among three choices: positive, negative, and one dependent on your car's light switch.

- **Clock display (page 36)**
  Displays the time.

- **Theft deterrent faceplate (page 37)**
  The faceplate of the unit can be detached and taken with you as you leave the car, in order to deter theft.

- **Disabled system indicator (DSI) (page 37)**
  When this function is turned on, a red indicator will flash on the unit after the faceplate is removed, making it appear as if you have a security system operating in your car, warning potential thieves.

- **Touch sensor tone**
  A beep will sound as you press the various buttons on the unit to confirm that an operation has been completed.

- **Switching to non-fading pre-out (page 36) (Function of the KRC-702/602)**
  The front preout can be switched to non-fading, which lets you decrease the volume for the front and rear (including the rear preout) channels while keeping the same volume for the non-fading preout, thus emphasizing the non-fading sound. This function is convenient when using a sub-woofer connected to the system.

English 9

Basic operations

PROG   CD•MD

ATT   LOUD   TUNE/PWR OFF

ATT indicator

LOUD indicator
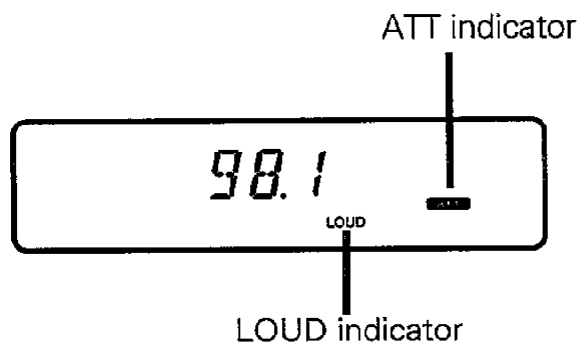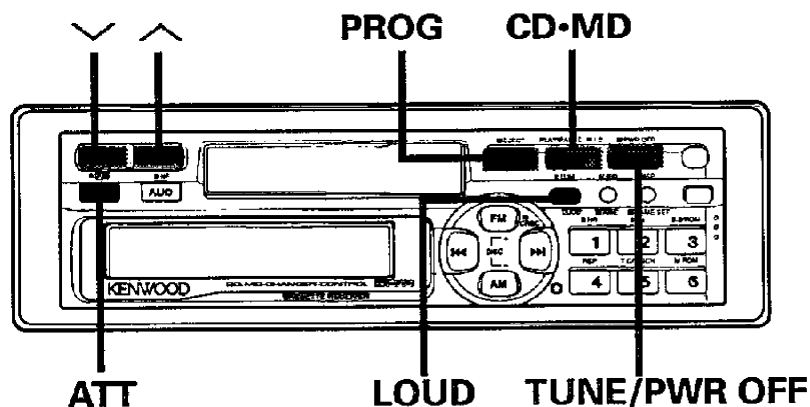
Power

Turning on the power:
Press one of the following buttons: PROG, CD•MD, or TUNE.

NOTE
Turn the power on before completing the following procedures.

Turning off the power:
Press the PWR OFF button for at least one second.

Selecting standby mode:
Press the TUNE 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.

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.

KRC-702/602

Loudness

This function amplifies low and high tones when the volume is turned down.

Turning Loudness On/Off:
Press the LOUD button for at least one second to switch the loudness on and off.
The LOUD indicator lights up when the loudness function is on.
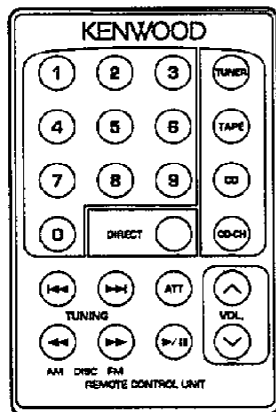
KRC-502

Loudness

This function amplifies low and high tones when the volume is turned down.

Turning Loudness On/Off:
Press the LOUD button to switch the loudness on and off.
The LOUD indicator lights up when the loudness function is on.

Optional for KRC-602/502

```
        KENWOOD
  (1) (2) (3) (TUNER)
  (4) (5) (6) (TAPE)
  (7) (8) (9) (CD)
  (0) [DIRECT ()] (CD-CH)
  (|◄◄) (►►|) (ATT) (⌃)
      TUNING          VOL
  (◄◄) (►►) (►/II) (⌄)
   AM  DISC  FM
     REMOTE CONTROL UNIT
```

Replacing the Lithium Battery:
Use one lithium battery (CR2025).
Insert the battery with the + and - poles aligned properly, following the illustration inside the case.
Most batteries last about six months, depending on how often you use the remote. Change the battery when it dies.

⚠ WARNING

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

⚠ CAUTION

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

NOTE

Remove the film from the battery case the first time you use the remote.

All Modes

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

• VOL. buttons
Press the ⌃ button to turn the volume up.
Press the ⌄ button to turn the volume down.

• CD-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.

• TAPE button
Selects the tape mode.

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

Tuner Mode

• Number buttons
Press buttons #1-6 to recall preset stations.
During direct access tuning, use these buttons to input the frequency of the station.

- TUNING buttons
  Press the ⏮ button to decrease the frequency.
  Press the ⏭ button to increase the frequency.

- AM button
  Selects the AM band.

- FM button
  Selects and switches between FM1, FM2, and FM3 (which are used for groups of preset stations).

- DIRECT button
  Selects the direct access tuning mode, used to input frequencies directly. Press this button again to cancel the mode while it is operating.
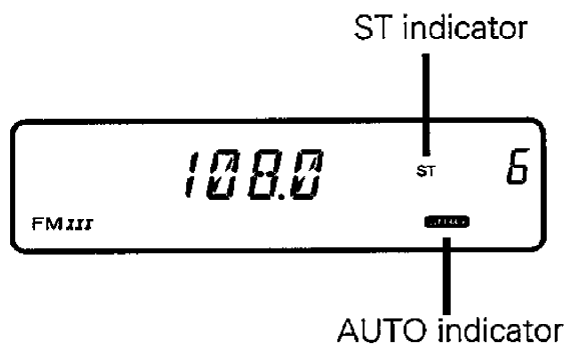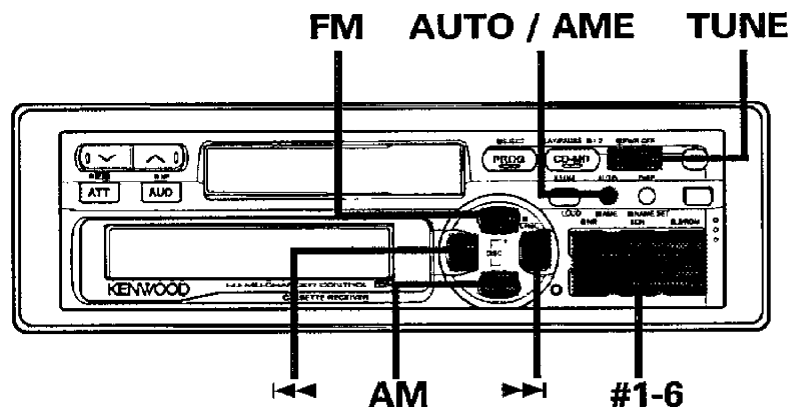
Tape Mode

- Number buttons
  Used to input the number of tracks to be skipped using DPSS.

- DPSS buttons
  Press the ⏮ button to skip backward by the specified number of tracks.
  Press the ⏭ button to skip forward by the specified number of tracks.

- ◀◀ button
  Rewinds the tape.

- ▶▶ button
  Fast forwards the tape.

- ▶/⏸ 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 buttons
  Used to specify the track (disc) number used in direct track (disc) searches.

- TRACK buttons
  Press the ⏮ button to search through the tracks backward.
  Press the ⏭ button to search through the tracks forward.

- DISC buttons
  Press the ◀◀ button to search through the discs backward.
  Press the ▶▶ button to search through the discs forward.

- ▶/⏸ button
  Plays the disc. When a disc is playing, this button pauses the play.

English 13

FM   AUTO / AME   TUNE

I◄◄   AM   ►►I   #1-6

ST indicator


```
  1088.  ST  6
FMIII
```

AUTO indicator

Tuning

1 Press the TUNE 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 FM1, FM2, and FM3 (which are used for groups
of preset stations).
Press the AM button to select the AM band.

3 Press the AUTO button to switch between auto seek tun-
ing and manual tuning.
The AUTO indicator lights up only when auto seek tuning is
selected.

4 • Auto Seek Tuning
Press the ►►I button to seek higher frequencies.
Press the I◄◄ button to seek lower frequencies.
• 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 Preset Memory

Store the frequency of a station.

1 Select the band/frequency of the station that you want to have stored.

2 Press the button (#1-6) that you want to use for the station, for at least two seconds.
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 six stations in each of the FM1, FM2, FM3, and AM bands.

Auto Memory Entry

Automatically store the receivable stations in the area.

1 Select the band for which you want to store stations.

2 Press the AME button for at least two seconds to start auto memory entry.
The numbers of the preset station buttons are shown 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.

English 15

FM / CRSC

AM
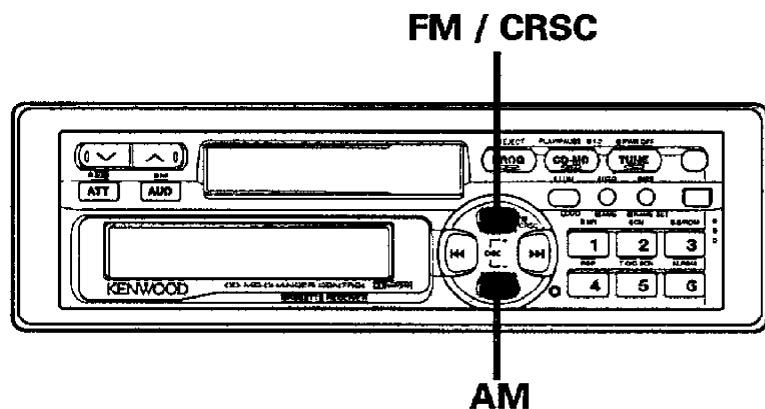
Clean Reception System Circuit (CRSC)

Temporarily have reception switched from stereo to mono to reduce multi-path noise when listening to the tuner.
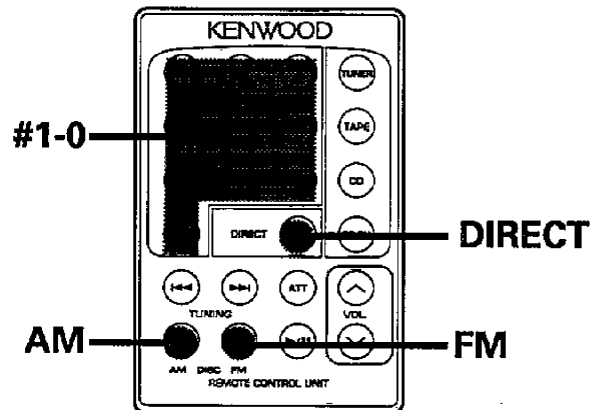
Turning CRSC On/Off:

Press the CRSC button for at least one second to turn the function on/off. "CRSC ON" is displayed when CRSC is on. The factory default for this function is ON.

NOTE

Strong electrical fields (such as from power lines) may cause unstable sound quality when CRSC is turned on. In such a situation, turn it off.

Direct Access Tuning

KENWOOD

#1-0

DIRECT

AM

FM

Use the remote to select frequencies directly.

1 Select the band by pressing the FM or AM button.

2 Press the DIRECT button.
In the display, "—" blinks for 10 seconds.
If you make no input in the 10-second period, direct access tuning is automatically canceled.

3 Enter the frequency of the desired station while the display is blinking.
If you want to listen to an FM station at 92.1 MHz, for example, press 9, 2, and 1.
If you want to listen to an AM station at 810 kHz, for example, press 8, 1, and 0.
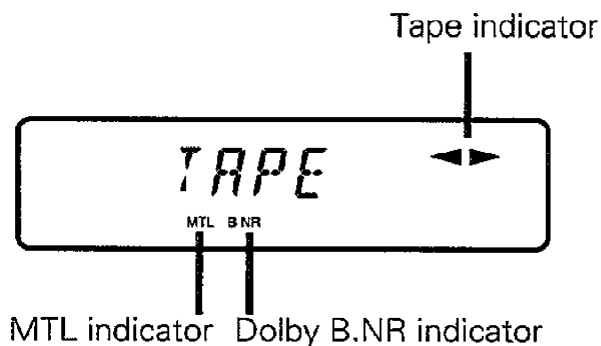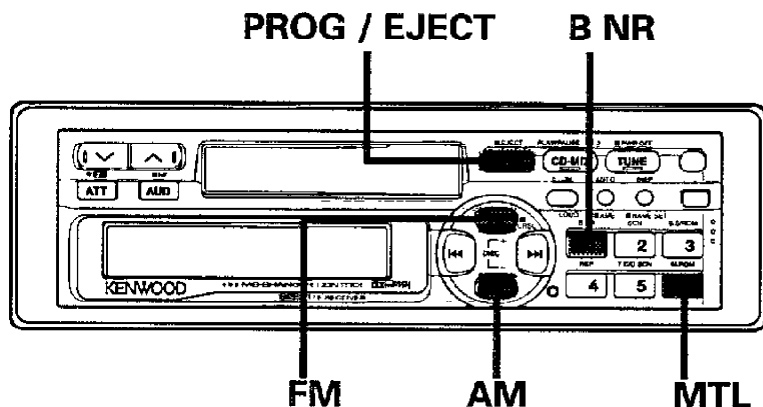
| NOTE |

• You cannot enter frequencies above or below what a band can receive.
• FM frequencies can only be input in 0.1 MHz steps, and not 0.01 steps.

Canceling Direct Access Tuning:
Press the DIRECT button again.

PROG / EJECT   **B NR**

FM   **AM**   **MTL**

Tape indicator

```
TAPE    ◄►

  MTL  B NR
```

MTL indicator Dolby B.NR indicator

Playing Cassette Tapes

Loading and Playing Cassettes:
Load a cassette with the tape exposed on the right.
The tape starts playing automatically.
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 stopped.

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

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

Stopping and Ejecting Cassettes:
Press the EJECT button for at least one second.
The tape stops playing and the cassette ejects.

NOTE

Remove a cassette from the unit when not listening to it for a while. If you leave it in the unit too long, tape may stick to the tape head and cause unit malfunction.
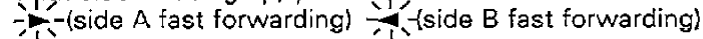
Fast Forwarding and Rewinding Cassette Tapes

Fast Forwarding Tapes:

Press the FM button.
The tape indicator blinks in the direction of the tape as it is
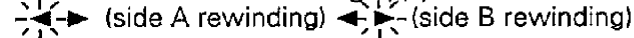being fast forwarded.
With side A facing up, you see:
-►-(side A fast forwarding) -◄-(side B fast forwarding)

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 PROG button.
Normal tape play returns.

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 Dolby B NR indicator lights up when it is turned on.

Switching Tape Types

Select type of tape being played.

Switching Tape Types:

Press the MTL (Metal) button to switch the metal tape indi-
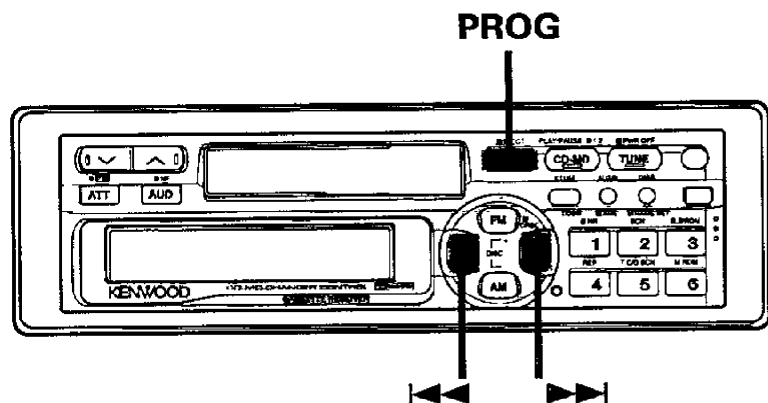cator on and off and to select the tape type.
Turn the MTL indicator off for normal tape (Type I) play-
back.
Turn the MTL indicator on for the following tape types:
  $CrO2$ (Type II)   FeCr (Type III)   Metal (Type IV)
Selecting the wrong tape type may cause sound quality to
suffer.

English 19

PROG

|◄◄   ►►|

TAPE   ◄►

Using Direct Program Search System (DPSS)

Skip forward or backward to other tracks during playback.

Skipping to Beginning of Current Track or to Previous Tracks (Rewind DPSS):

Press the I◄◄ button.
Press once to rewind to the beginning of the current track, twice to rewind to the beginning of the previous track, and so forth.
You can skip up to nine tracks.
Playback is continued after the tape is rewound by the indicated number of tracks.

Skipping to Later Tracks (Fast Forward DPSS):

Press the ►►I button.
Press once to fast forward to the next track, twice to fast forward to the track after that, and so forth.
You can skip up to nine tracks.
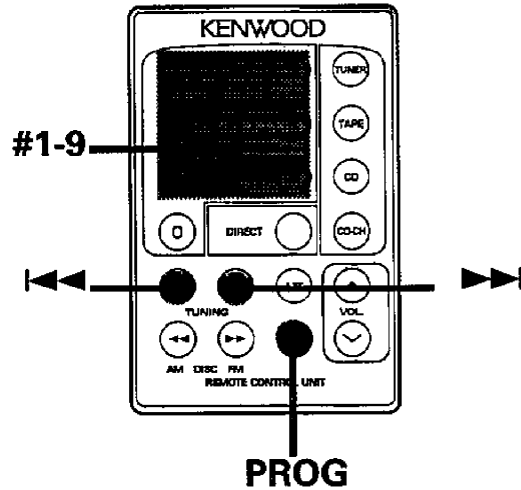Playback is continued after the tape is fast forwarded by the indicated number of tracks.

NOTE

• During the first three seconds of each track, the previous track is considered the "current" track. If you press the I◄◄ button during that period, the tape rewinds to the beginning of the previous track and not the one you are listening to.
• The DPSS function "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, DPSS may not operate correctly. Furthermore, quiet intervals within a song are detected as "blank spaces" if they last for four seconds or more.

Canceling DPSS While It Is Operating:

Press the PROG button.

Using DPSS with the Remote

#1-9

I◄◄

►►I

PROG

Directly input the number of tracks to skip during playback.

1   Enter the number of tracks you want to skip using the number buttons on the remote.
Up to nine tracks can be skipped.

2   Press either the I◄◄ or ►►I button while the number is blinking, depending on whether you want to skip backward or forward.
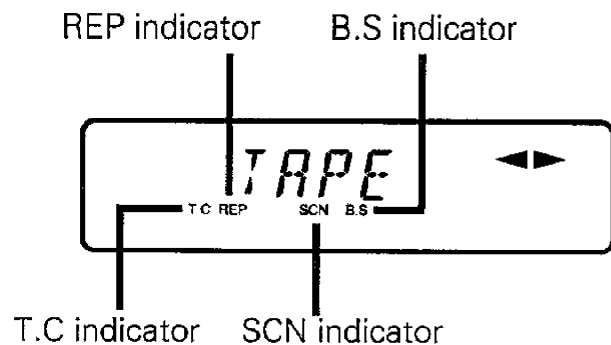Playback starts after the tape rewinds or fast forwards by the specified number of tracks.

| NOTE |

• During the first three seconds of each track, the previous track is considered the "current" track. If you press the I◄◄ button during that period, the tape rewinds to the beginning of the previous track and not the one you are listening to.
•The DPSS function "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.

Canceling DPSS:
Press the PROG button.

English 21

Cassette player features

PROG   SCN   B.S

REP   T.C

REP indicator   B.S indicator

T.C indicator   SCN indicator
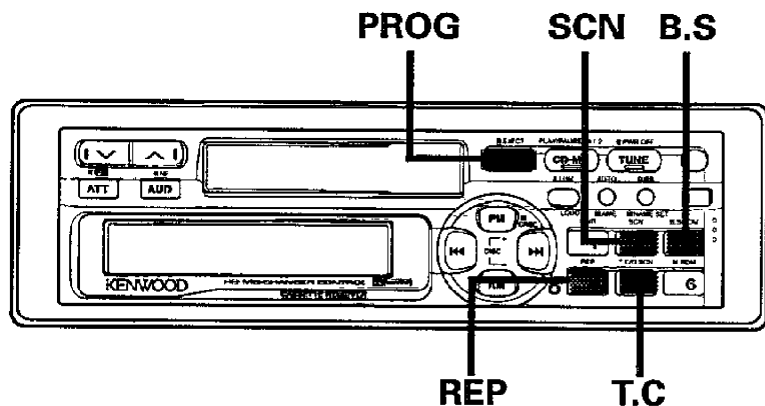
Blank Skip

Automatically fast forward to the beginning of the next track when long blank spaces (10 seconds or more) are detected, continuing tape playback.

Turning Blank Skip On/Off:

Press the B.S button to switch blank skip on and off.
The B.S indicator lights up when blank skip is turned on.

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 T.C button to switch tuner call on and off.
The T.C indicator lights up when tuner call is turned on.

Index Scan

Successively plays the first few seconds of each track on the tape.

Turning Index Scan On/Off:
>Press the SCN button to switch index scan on/off.
>The SCN indicator lights up when index scan is turned on.

Stopping to Listen to the Track Being Scanned:
>Press either the SCN or PROG button.
>Playback begins as usual.

NOTE

• Index scan is canceled when the tape stops.
• Index scan "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 PROG 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 23

CD•MD

|◄◄   ►►| #1

T-02: 3:54   6
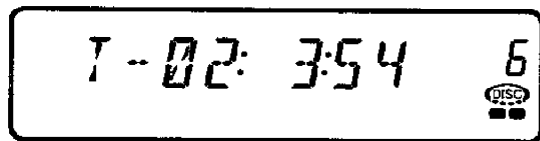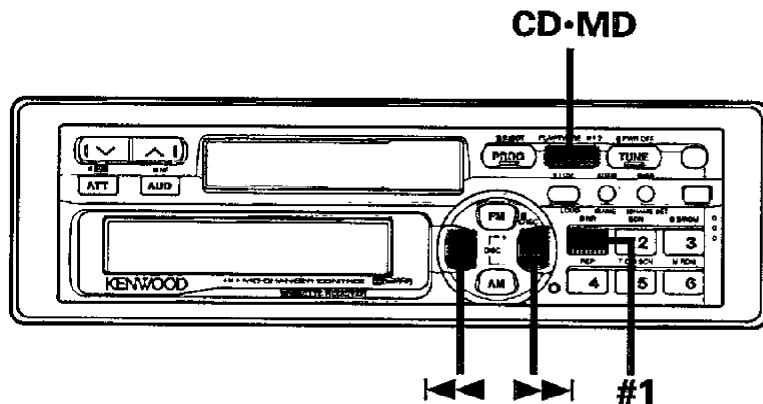
Playing Discs Using a Disc Changer

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.

Pausing and Restarting Disc Play:
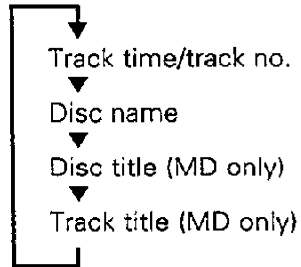Press the CD•MD button to make the disc pause.
Press the same button again to start play again.

Switching Display for Discs

Switch the display that appears while discs are playing.

Switching Display for Discs:
Each time you press button #1, 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.33).
• If you try to display the name of a disc that doesn't have one, "NO NAME" is displayed instead.

Fast Forwarding and Reversing Disc Play

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

Reversing Disc Play:
Hold down on the |◄◄ 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.

English 25

I◄◄   +   ►►I

− REP

TRACK number   DISC number

$T-02$: $3:54$ 6

REP indicator
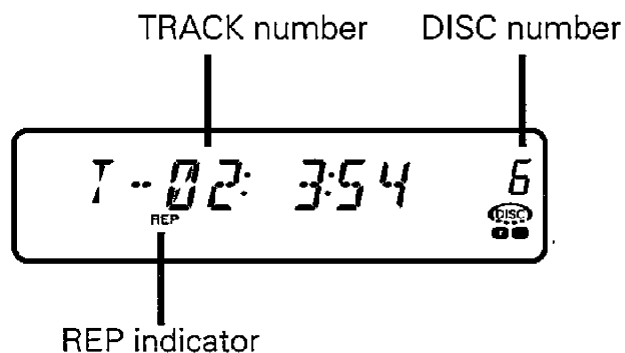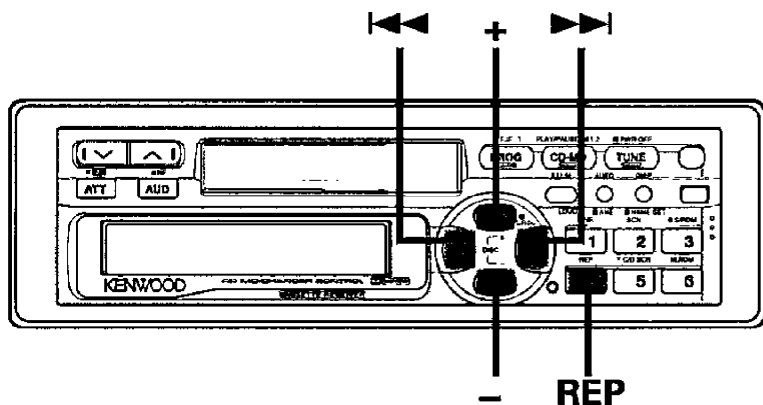
Track Search

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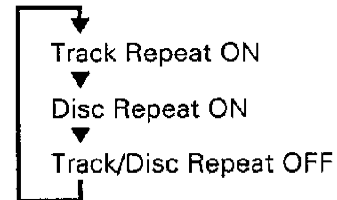
The REP indicator lights up when repeat play is turned on.
The track number blinks in the display when track repeat is on.
The disc number blinks in the display when disc repeat is on.

| NOTE |

Repeat play is canceled when you stop playing the disc.

English 27

#1-0

|◄◄

AM

►►|

►/II

FM

TRACK number   DISC number

```
T - 02:  3:54    6
```
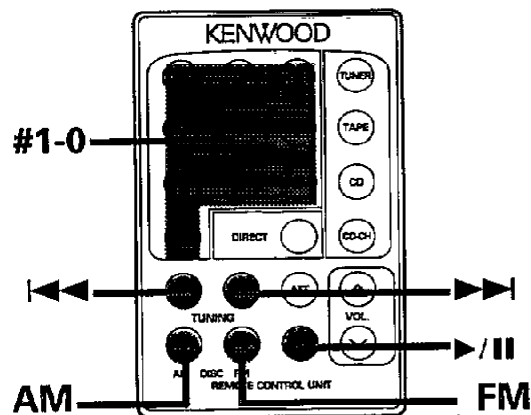
Direct Track Search

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.
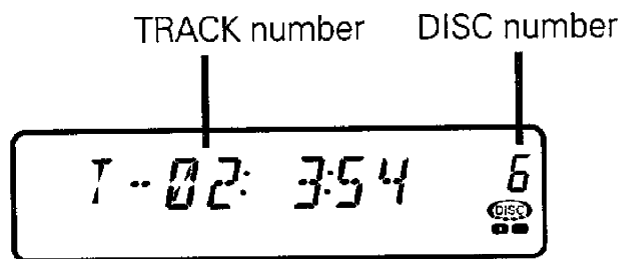The selected track number will blink in the display for 10 seconds.
If you make no further input in the 10-second period, the number entry mode will automatically be canceled.

2 Press either the |◄◄ or ►►| 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.

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.
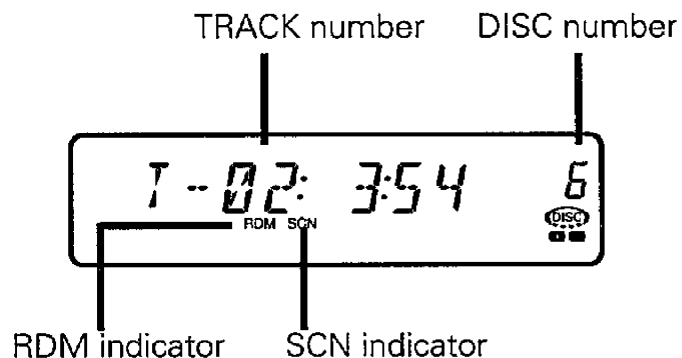
[NOTE]

• 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 FM or AM button while the number inputted is blinking.
The disc starts playing.

Canceling Direct Disc Search While It Is Operating:
Press the ▶/II button.

Disc changer control features

SCN RDM

D.SCN
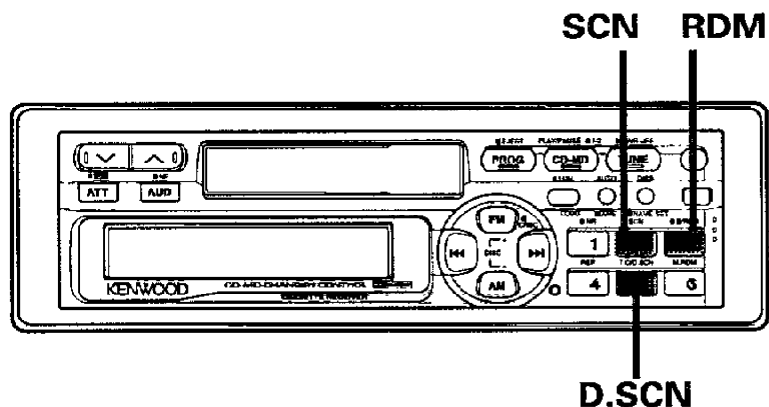
Track Scan

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 SCN 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 SCN 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.

TRACK number   DISC number

RDM indicator   SCN indicator

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 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.

English 31

|◄◄   DISC +   NAME SET

DISC −   ►►| M.RDM

TRACK number   DISC number

$T-02\cdot 3{:}54$ 6
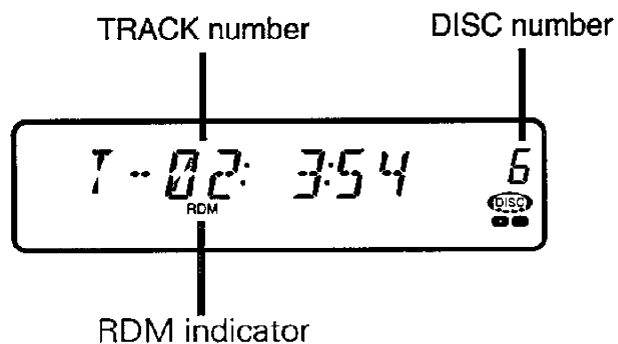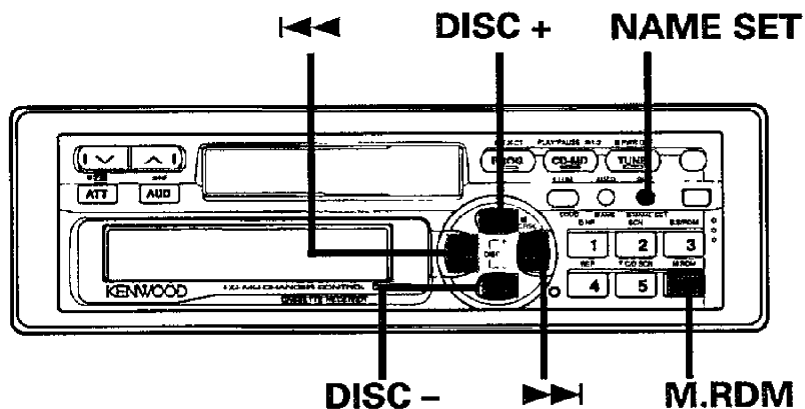
RDM indicator

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 ►►| 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 available when one of the following disc changers is connected to your unit:
  C705i, KDC-C803, KMD-C80, KDC-C604
• This procedure is not to be used to store the disc and track titles for MDs that you record.

2 Press the NAME SET 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 If the cursor is in the correct position, go to step 4. If not, press either the I◄◄ or ►►I button to move the cursor to the desired character input position.
The I◄◄ button moves the cursor to the left and the ►►I button moves it to the right.

4 Press the + or - button to display the desired character.

**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.
• Besides the alphabet (capital letters only) and numbers, you can choose the following characters: [,], /, +, -, *, =, <, and >.

6 Press the NAME SET button again to finish name entry and leave name preset mode.
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 (30 for KDC-C604), and with the MD changer, you can only store names for up to 30 MDs. If you store the name for a 101th 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.

ILLUM

P/N   **AUD**
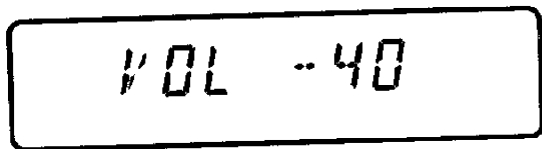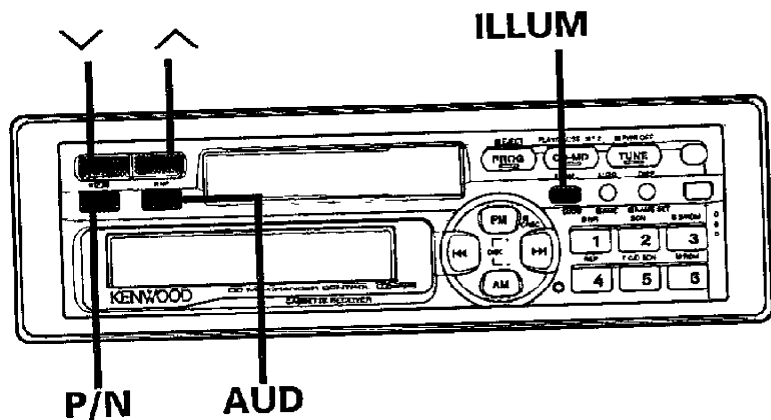
Audio Control Setting

Adjust various parameters of sound quality.

1   Press the AUD button to enter the control mode.
Each time the AUD button is pressed, the adjustment
mode display changes as follows:

Bass ▶ Treble ▶ Balance ▶ Fader
Volume ◀ N-F Level (only when being switched) ◀

If you do not move to step 2 in five seconds, the unit will
switch back to the volume adjustment mode (that is the
normal mode).

NOTE Source tone memory
Each source has its own memory in which to store the bass and
treble tone settings.
The settings made for a particular source are recalled automati-
cally whenever you use that source (for example, tape mode
uses the tone settings made for tape, FM for FM, etc.).

2   Press the ∨/∧ buttons to adjust the mode shown in the
display.
Adjust each mode according to the table on p. 35.

```
VOL  -40
```

Function of the KRC-702/602

Adjustment mode (Display)	Operation of Audio control button	
	∨ button	∧ 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 ("N-F")	Front and rear channels (including pre-out) emphasized	Non-fading sound emphasized

NOTE

The balance of the non-fading sound cannot be adjusted.

Selectable Illumination

Select the colors used to illuminate the display.

Switching the illumination:
> Press the ILLUM button to switch between amber and green.

Function of the KRC-702

Display Type

Switch the display between negative and positive.

Switching Display:
> Press the P/N button for at least one second to switch the illumination setting as follows:

Positive type (POSI)
▼
Negative type (NEGA)
▼
Car light dependent type (A-P/N)
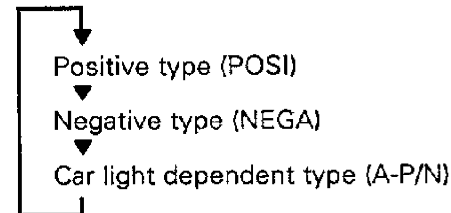
When you select the car light dependent type, negative will be chosen when the car lights are turned on, and positive when the lights are turned off.
The factory default is car light dependent.

English 35

DISP   TUNE/PWR OFF   RELEASE

NF   ◄◄   ►►   #1   #3
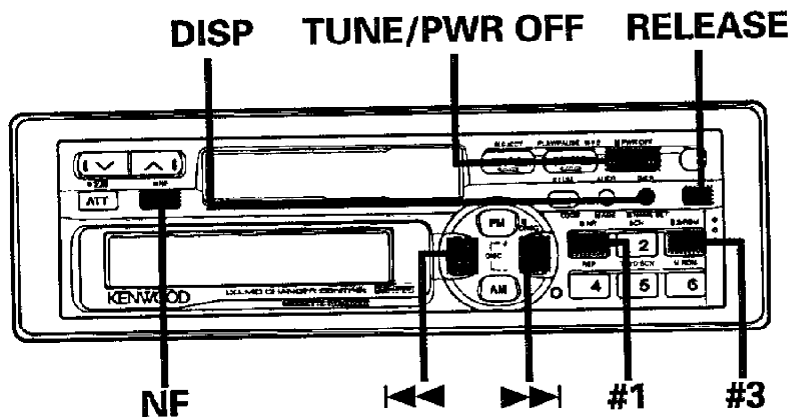
Switching Preout

Switch the front preout to non-fading.

Switching front preout:

Press the NF button for at least three seconds to switch front preout to non-fading.
"NF ON" 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 and rear channels remains the same while the rear preout and front and rear 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. 35).
- When the front preout is switched back again, the volume level and fader control settings are returned to the factory set values.

Clock Display

Displays the time.

Switching to Time Display:

Press the DISP button to display the time.

Adjusting Time

Adjust the time.

1 When the time is not displayed, first press the DISP button to display the time.

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

Disabled System Indicator (DSI)

A red indicator will blink on the unit after the faceplate is removed, warning potential thieves. The factory default for this function is ON.
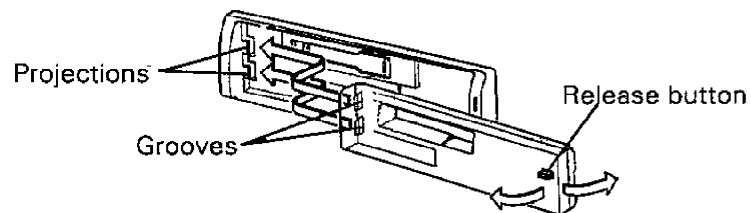
Canceling DSI:

1 Turn the power of the unit off.

2 While presssing buttons #1 and #3 at the same time, press the TUNE button.

Repeat steps 1 and 2 above to turn DSI back on.

Theft Deterrent Faceplate

The faceplate of the unit can be detached and taken with you, helping to deter theft.

Projections

Release button

Grooves

Removing the Faceplate:
Press the release button.
The faceplate is unlocked, allowing you to detach it.

| NOTE |

• The faceplate is a precision piece of equipment and can be damaged by shocks or jolts. For that reason, keep the faceplate in its special storage case while detached.
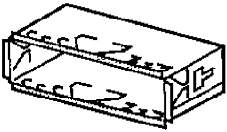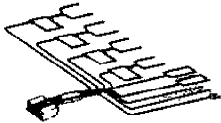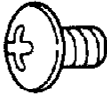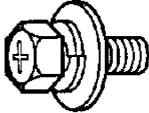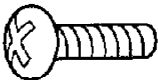
• Do not expose the faceplate or its storage case to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.

Reattaching the Faceplate:

1 Align the projections on the unit with the grooves on the faceplate.

2 Push the faceplate in until it clicks.
The faceplate is locked in place, allowing you to use the unit.

English 37

Accessories

External view	Part name	Number of items	External view	Part name	Number of items
	Mounting sleeves	1		Philips flush head self tapping screw (ø5x8)	4
	Wiring harness	1		Philips truss head self tapping screw (ø5x8)	4
	Metal mounting strap	1		Hex-head machine screw with washer (M4 x 8)	1
	Removal tool	2		Phillips pan head screw (ø4 x 16)	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 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 cover 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 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.
- Some disc changers need conversion cords for connection. See the section on "Safety Precautions" for details.
- Insulate unconnected wires with vinyl tape or other similar material.

English 39

NOTE Circled numbers indicate the steps described in the installation procedure.

Front left output (White)
(KRC-702/602 only)

Front right output (Red)
(KRC-702/602 only)

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

KENWOOD
Kenwood Disc changer (optional)

Front speakers

Power amplifier (Sold separately)

Rear left output (White)

Changer connection cable (Supplied with the Kenwood Disc changer)

Rear speakers

Power amplifier (Sold separately)

Fuse

Rear right output (Red)

FM/AM antenna input

⑤ Wiring harness (Accessory)

Power control input

P.CONT.OUT

Power/ Full automatic power antenna control wire (Blue/White)

Automatic illumination control wire (Orange) (To car light control switch) (KRC-702 only)

ILLUMI

White/ Black
FRONT·L White Front left speaker

Gray/ Black
FRONT·R Gray Front right speaker

Green/ Black
REAR·L Green Rear left speaker

Purple/ Black
REAR·R Purple Rear right speaker

Ignition key switch

Car fuse box

Ignition wire (Red)

ACC

Car fuse box (Main fuse)

Battery wire (Yellow)

Ground wire (Black) ⊖(To car chassis)

Battery

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.

FRONT·L
FRONT·R
REAR·L
REAR·R
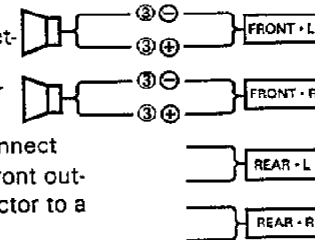
Installation

■ Installation

Hex-head machine screw with washer (M4×8mm)

Firewall or metal support

Phillips truss head sheet metal screw (commercially available)

Metal mounting strap

Mounting sleeve

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 (eg, the sound may skip).

■ Installing in Japanese-Made Cars
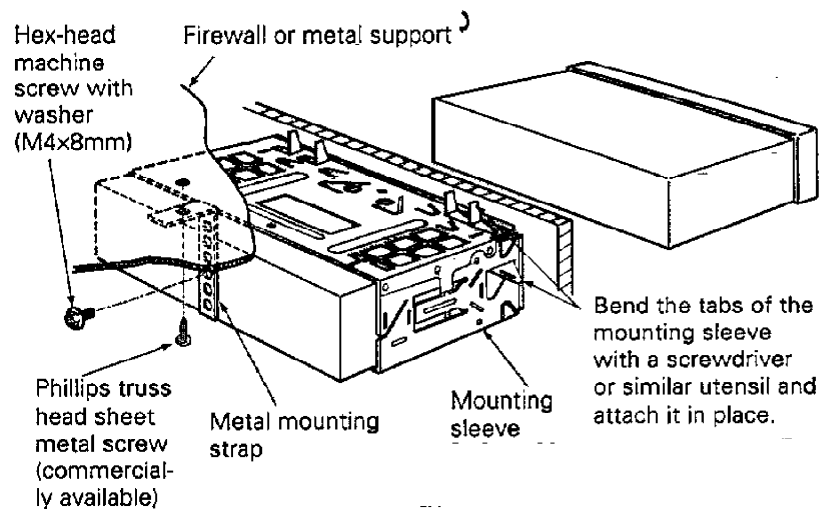
1 Refer to the section "Removing the hard rubber frame" and then remove the hard rubber frame.

2 Align the holes in the unit (two locations on each side) with the vehicle mounting blacket and secure the unit with the accessory screws.

T: Toyota cars
N: Nissan cars

8 mm MAX.
8mm MAX.
ø5mm
ø5mm

Flat head screw: for Nissan car
Truss head screw: for Toyota car
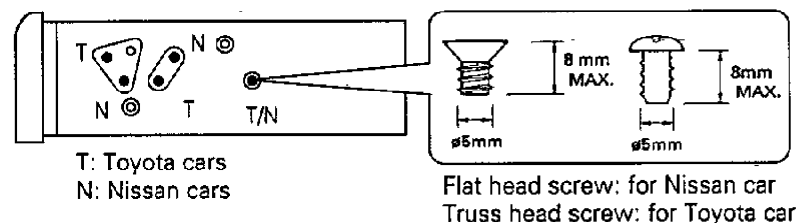
⚠CAUTION

• During installation, do not use any screws except for those provided. The use of different screws might result in damage to the main unit.
• Damage may occur if a screwdriver or similar tool is used with excessive force during the installations.

English 41

Installation

Removing the hard rubber frame

1 Engage the catch pins on the removal tool and remove the two locks on the lower level.
Lower the frame and pull it forward as shown in the figure.

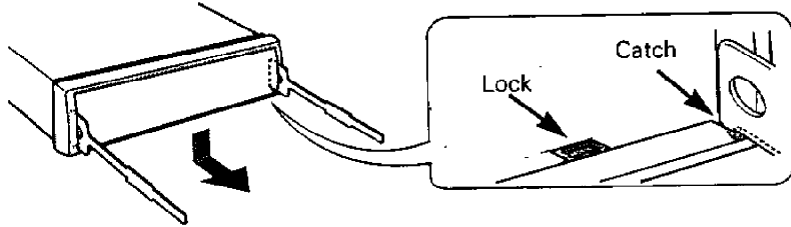**2** When the lower level is removed, remove the upper two locations.
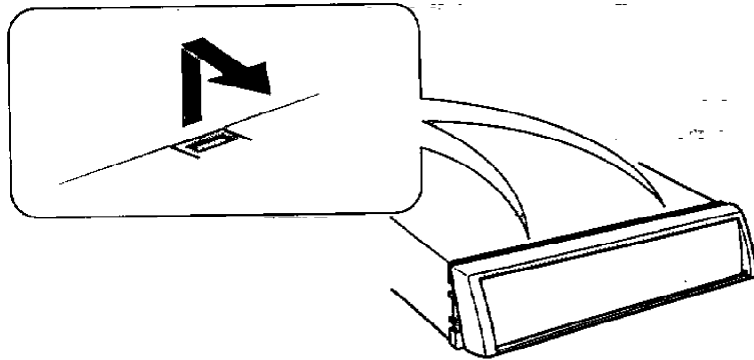
NOTE
The frame can be removed from the top side in the same manner.

Removing the Unit

1 Refer to the section "Removing the hard rubber frame" and then remove the hard rubber frame.

2 Remove the screw with washer (M4x8) on the back panel.

3 Insert the two removal tools deeply into the slots on each side, as shown.
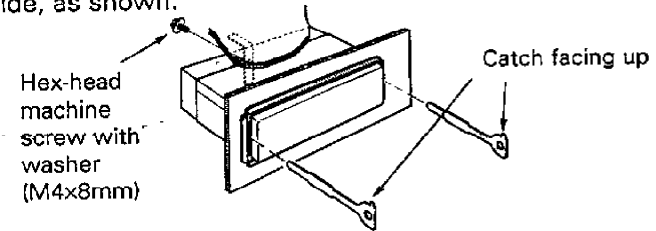
4 Lower the removal tool toward the bottom, and pull out the unit halfway while pressing towards the inside.
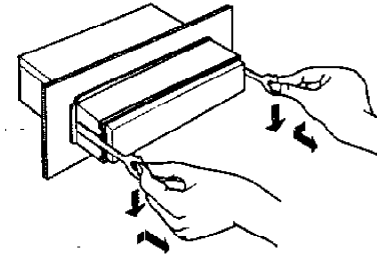
CAUTION
Be careful to avoid injury from the catch pins on the removal tool.

5 Pull the unit all the way out with your hands, being careful not to drop it.
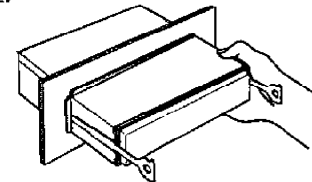
■ Screwing the Faceplate on the Unit

If you want to fasten the faceplate to the main unit so that it does not fall off, insert the provided screw (ø4 x 16mm) in the hole shown below.

Phillips pan
head screw
(ø4 x 16)
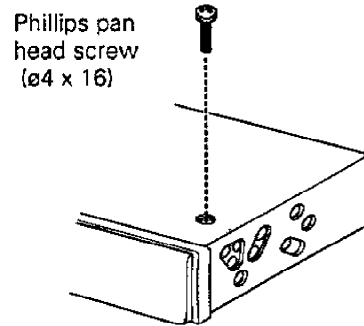
⚠CAUTION

Never insert the phillips pan head screw (ø4 x 16mm) in any other screw hole than the one specified. If you insert it in another hole, it will contact and may cause damage to the mechanical parts inside the unit.

English 43

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.

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.	The volume has been turned all the way down.	Turn up the volume.
	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.
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 volume is too high.	Turn down the volume.
	The tape head is dirty.	Clean the tape head, referring to the section on "Cleaning the tape head" (see page 5).
	One of the speaker wires is being pinched by a screw in the car.	Check the speaker wiring.
	A speaker wire is being shared by two speakers.	Reconnect the speaker wires so that each output terminal is connected to a different speaker.
A cassette cannot be loaded.	The cassette is deformed.	Load the cassette with the tape exposed on the right.
	The cassette has been inserted backward.	

PROBLEM	POSSIBLE CAUSE	SOLUTION
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".
Tape mode cannot be selected.	No cassette has been inserted.	Load a cassette into the unit.
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".

Troubleshooting Guide

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 disc does not play.	The power has not been turned on.	Turn the power on and select the disc changer mode.
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 labelled side up.
	Two CDs are loaded in the same slot.	Eject the disc magazine and insert the CDs in two different slots.
	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 sound quality of the disc is poor.	The disc recording is poor.	Try another disc for comparison. If it is all right, the first disc was bad.
	The CD is scratched or dirty.	Clean the CD.
The display shows that the changer is being played, but no sound can be heard.	The volume has been turned all the way down.	Turn up the volume.
	The computer chip in the unit is not functioning normally.	Press the reset button on the unit (see page 5).
	The system has not been connected properly.	Connect the wires correctly, referring to the section on "Connecting Wires to Terminals".
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
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-99
The unit is malfunctioning for some reason.
⇒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 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.

English 47

Specifications

Specifications subject to change without notice.

FM tuner section

Frequency range
   (200 kHz Space) ....87.9 MHz – 107.9 MHz
Channel space ....200 kHz
Usable sensitivity (S/N = 30dB) ....9.3dBf (0.8 µV/75 ohms)
Quieting Sensitivity ....15.2dBf (1.6 µV/75 ohms)
Frequency response (±3.0 dB) ....30 Hz – 15 kHz
Signal to Noise ratio (MONO) ....75 dB
Selectivity(±400 kHz)...≥ 80 dB
Image Response Ratio ....70 dB
IF Response Ratio ....120 dB
Stereo separation (1 kHz) ....40 dB

AM tuner section

Frequency range
   (10 kHz space) ....530 kHz – 1700 kHz
Usable sensitivity ....28 dBµ (25 µV)

Cassette player section

Tape speed ....4.76 cm/sec.
Wow & Flutter (WRMS) ....0.08 %
Frequency response (70 µs)....................30 Hz – 18 kHz (±3 dB)
Separation (1 kHz) ....43 dB
Signal to Noise ratio (Dolby B NR OFF)...............54 dB
Signal to Noise ratio (Dolby B NR ON) ....63 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 ....1800 mV / 10k ohms
Preout impedance ....≤ 600 ohms

General

Operating voltage................................14.4 V (11 – 16 V allowable)
Current consumption.....................................10 A at Rated power
Installation size (W × H × D) ....182 × 53 × 154 mm
   7-3/16 × 2-1/16 × 6-1/16 in.
Weight 2.9LBS
   1.3 kg