KENWOOD

KRC-678R
KRC-678RV
KRC-578R

CASSETTE RECEIVER
INSTRUCTION MANUAL

KENWOOD CORPORATION

B64-1635-00 (EN)

Contents

⚠WARNING

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

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

  The unit may break or crack because it contains glass parts.
- 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 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.
- To prevent deterioration, do not touch the terminals of the unit or faceplate with your fingers.
- Do not subject the faceplate to excessive shock, as it is a piece of precision equipment.
- When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- To prevent short circuits when replacing a fuse, first disconnect the wiring harness.
- Do not place any object between the faceplate and the unit.
- During installation, do not use any screws except for the ones provided. The use of improper screws might result in damage to the main unit.

- Do not apply excessive force to the open faceplate or place objects on it. Doing so will cause damage or breakdown.

IMPORTANT INFORMATION

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

- **KDC-C200 / KDC-C300 / KDC-C400**

  Use the extension cable and the control box attached to the CD changer, and the optional CA-DS100 converter cable.
- **KDC-C301 / KDC-C600 / KDC-C800 / KDC-C601 / KDC-C401**

  Use the extension cable attached to the CD changer, and the optional CA-DS100 converter cable.
- **KDC-C100 / KDC-C302 / C205 / C705 / non-Kenwood CD changers**

  Cannot be used with this model.

⚠CAUTION

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

English

NOTE

- If you experience problems during installation, consult your Kenwood dealer.
- If the unit does not seem to be working right, try pressing the reset button first. If that does not solve the problem, consult your Kenwood dealer.

Reset button

- Characters in the LCD may become difficult to read in temperatures below 41 °F (5 °C).
- The illustrations of the display and the panel appearing in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the display in the illustrations may differ from what appears on the display on the actual equipment, and some of the illustrations on the display may represent something impossible in actual operation.
- The functions that can be used and the information that can be displayed will differ depending on the external disc players being connected.

Cleaning the Faceplate Terminals

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

Cleaning the Unit

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

⚠CAUTION

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

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

Cleaning the Tape Head

After you have used the tape player many times over a long period, 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 above the fascia panel (dashboard) 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 whilst. If you leave a tape in the unit too long, it may stick to the tape head and cause unit malfunction.

SRC/PWR OFF

FM

▶▶|

ATT/LOUD   #1-6   AUD   NAME.S   AM

|◀◀

Release button

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ATT indicator

LOUD indicator

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ATT indicator

LOUD indicator

Power

Turning on the power:
Press the SRC button.

NOTE

Turn the power on before carrying out the following procedures.

Turning off the power:
Hold down the PWR OFF button for one second or more.

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 up, or turning it all the way down deactivates the attenuator function.

General features

Switching Modes

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

Tuner mode
▼
Tape mode
▼
External disc control mode 1
▼
External disc control mode 2/AUX mode
▼
Standby mode

Selecting the standby mode:
Press the SRC button repeatedly to select to "ALL OFF" .
When "ALL OFF" is displayed, the standby mode is turned on.
The standby mode turns all functions off although leaving the unit's power on. Use this mode when you want to have the display illuminated but do not want to listen to anything.

NOTE

- The mode switches to the next mode from any mode which cannot be used.
- The external disc control mode will differ depending on the unit that is connected.
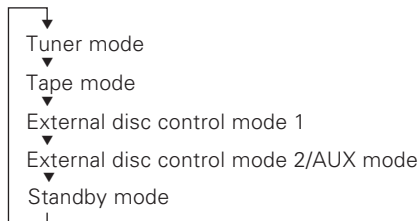- The AUX mode is available only when the changer / AUX switching adapter (KCA-S210A or CA-C1AX) or CD changer (KDC-CPS85, KDC-CX85, KDC-CPS82 or KDC-CX82) is connected to this unit.
  During the AUX mode, "AUX" / AUX-name will show in the display. When the CA-C1AX is being used, the AUX Mode will replace the External Disc Control Mode.

NOTE Presetting AUX-name

In the AUX mode, press the NAME.S button for two seconds or more. "NAME SET" is display and AUX-name mode is entered. Input the characters, referring to the section on "Presetting Disc Names (DNPS)" (page 22).

TEL Mute

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

NOTE

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

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

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

Turning TEL Mute Function Off After Phone Call:
Hang the phone up.
"CALL" disappears from the display.
The original source (i.e., the one used before the phone call) is returned to automatically, and the volume restored gradually.

Theft Deterrent Faceplate

The faceplate can be reversed to hide the control panel or detached form the unit, helping to deter theft.

Removing the Faceplate:
1 • When the control panel is visible
Press the release button.
• When the control panel has been hidden
Press the upper side of the faceplate.

2 Holding the centre part of the faceplate, pull it out.
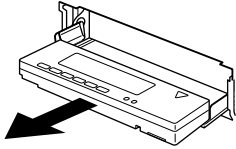
3 Push back the bottom of the faceplate bracket until it locks.

⚠CAUTION

• Do not apply excessive force to the faceplate bracket without attaching the faceplate. Doing so will cause the faceplate bracket to be deformed.
• Do not touch the connector on the faceplate bracket after removing the faceplate. Touching the connector may cause damage to the unit.
• Do not touch two metal parts on both sides of the faceplate bracket. Touching those parts may injure you.

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 whilst 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 Hold the faceplate so that the control panel faces the front toward you and set the left side of the faceplate in the faceplate bracket.
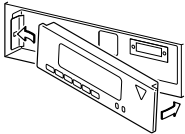
⚠CAUTION

Do not set the right side of the faceplate in the faceplate bracket first, when reattaching the faceplate. Doing so may cause the connector on the faceplate bracket to malfunction.

2 Press the right side of the faceplate until it locks.

Hiding the control panel:
1 Press the release button and slide open the faceplate.
2 Push upward the back of the control panel and reverse the panel.
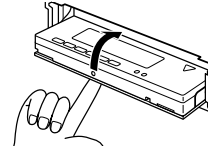
NOTE

The panel cannot be reversed when the faceplate is not attached.

Opening the control panel:
1 Press the upper side of the faceplate.
The faceplate will open.

2 Push the bottom of the control panel and close the faceplate.
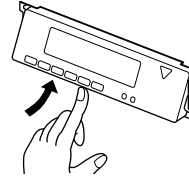
NOTE

The buttons do not work when the control panel is slided.

General features

Loudness

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

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

Audio Control Setting

Adjust various parameters of sound quality.

1 Press the AUD button to enter the control mode.

2 *Selecting mode*
Press either the FM or AM button.
Each time the button is pressed, the adjustment mode will change.
Please refer to the following for the contents of the adjustment modes.

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 then recalled automatically whenever you use that source (e.g., FM mode uses the tone settings made for FM, AM for AM, etc.).

3 *Adjust each mode*
Press the |◄◄/►►| button.
Please refer to the following for the adjusting values.

4 Press the AUD button to end the control mode.

"dB/DB" : Recalling the kenwood preset sound setting
Press the preset buttons (#1-6).
Settings: #1;Flat, #2;Rock, #3;Pops/Top40, #4;Jazz, #5;Easy, #6;Scan of #1-5

NOTE
- This mode is available only when the Sound coordinate system is on. (page 29)
- You can call the following settings with this function; bass centre frequency, bass level, bass quality factor, bass extension, treble centre frequency, and treble level setting. Their setting values are different depending on the setting of the mobile preset plan mode.

"Bass/BAS" : Adjust the bass level.
Setting values: - 8 – + 8

"Treble/TRE" : Adjust the treble level.
Setting values: - 8 – + 8

"Balance/BAL" : Adjust the balance level.
Setting values: Left 15 – Right 15

"Fader/FAD" : Adjust the fader level.
Setting values: Front 15 – Rear 15

"V OFFSET/VOS" : *Set the sound level of the each source selected by adjusting the level difference between the basic sound level and the required level.*

Setting values: - 8 – ± 0

Mobile Preset

This function allows you to adjust the setting that is recalled with the sound coordinate system, according to types of speakers.

1 Press the SRC button repeatedly to select the standby mode. "ALL OFF" is displayed when the standby mode is selected.

2 Press the AUD button to enter the mobile preset plan mode.

3 Press either the ◄◄ or ►► button to select the type of speaker. The setting switches as follows.
Off / For the OEM speaker / For 6/6x9 in. speaker / For 5/4 in. speaker

4 Press the AUD button to end the mobile preset plan mode.

NOTE

• This mode is available only when the Sound coordinate system is on. (page 29)
• When you change the setting of type of speaker, the bass and treble tone settings are returned to original levels.

#1-6   ◄◄   DISP   AM

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Band display   Frequency   Preset station number

ST indicator   AUTO indicator

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Band display   Preset station number

Frequency

ST indicator   AUTO indicator

English
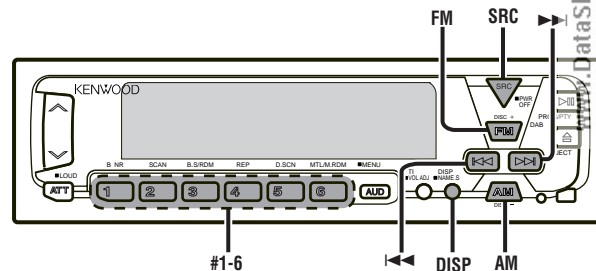
Tuning

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

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

3 • Auto Seek Tuning
Press the ►►I button to seek increasing frequencies.
Press the I◄◄ button to seek decreasing 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).

NOTE

If the frequencies stored at the preset numbers receive stations which were not originally memorized when traveling long distances, the preset number is not displayed. In such cases, pressing the I◄◄/►►I button to use preset station seek will receive channel 1.
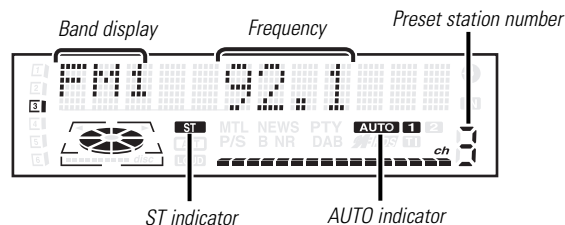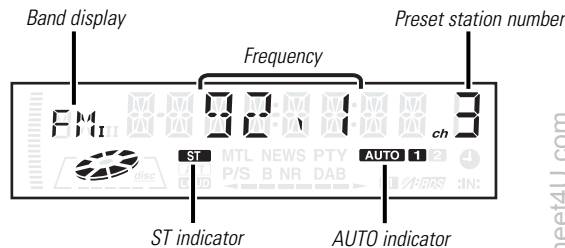• Manual Tuning
Press the ►►I button to increase the frequency by one step.
Press the I◄◄ button to decrease the frequency by one step.

NOTE
• The ST indicator lights up when stereo broadcasts are being received.
• Please see the menu settings about selecting tuning mode. (page 30)

Station Preset Memory

Store the frequency of the station currently being listened to.
You can then recall that station with a single touch of a button.

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

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

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

NOTE

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

Switching Display for Tuner

You can change the display used when listening to the radio.

Switching the Display:
Pressing the DISP button switches the display as follows.
Select the Radio Text Display mode.

```
↓
Programme Service name (during RDS station reception)/Station frequency
▼
Radio text
▼
Clock
▼
Date
```
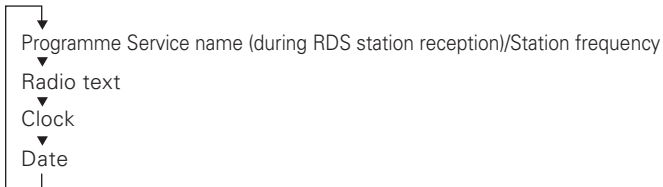
Displaying Frequencies:
Hold down the DISP button for one second or more.
The frequency for the RDS station will be displayed for five seconds instead of the station name.

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

• The ● indicator lights whilst the clock is displayed.

⚠WARNING

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

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Band display
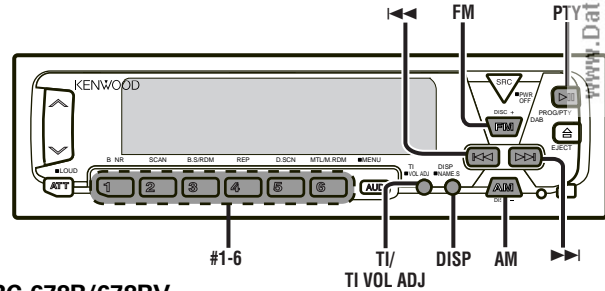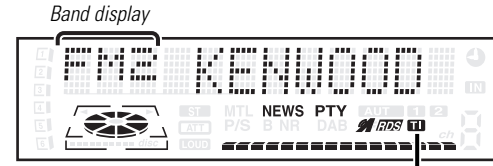
TI indicator

KRC-578R

Band display

TI indicator

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English

RDS (Radio Data System)

RDS is a digital information system that lets you receive signals besides those of regular radio programmes, such as network information being transmitted from radio stations. When listening to an RDS station (ie, a station with RDS capability), the programme service name of the station is displayed along with the frequency, advising you quickly which station is being received.

RDS (Radio Data System) stations also transmit frequency data for the same station. When you are making long trips, this function automatically switches to the particular frequency with the best reception for the particular network of stations that you want to listen to. The data is automatically stored, allowing you to switch quickly to another RDS stations, broadcasting the same programme, that has better reception. These include stations stored in the station preset memory that you often listen to.

Enhanced Other Network

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

Alarm

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

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 to turn the function on and off. When the function is on, the TI indicator is turned on. When none is being received, the TI indicator will blink on and off. When a traffic information station is being received, the TI indicator will turn on.

When a traffic bulletin begins to be broadcast, "TRAFFIC" will be displayed, and reception will begin at the preset volume. If you are listening to a tape or disc when a traffic bulletin begins, they will automatically be turned off. When the bulletin ends or poor reception is experienced, the tape or disc will begin playing again.

NOTE

Pressing the TI button whilst in the MW/LW band automatically switches reception to the FM band. However, the MW/LW band is not returned to when the TI button is pressed again.

Switching to a Different Traffic Information Station:

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

NOTE

- When you are listening to a tape or disc, you cannot change to another TI station.
- When the auto TP seek function is turned on and reception starts to weaken, the tuner automatically seeks traffic information stations with better reception.
- If you are tuned to a station that is not a traffic information station itself but which provides <Enhanced Other Network> services, you can still have traffic information received.
- Holding the TI button down for one second or more when the TI function is on in the disc control mode results in a change to the frequency display of the traffic information station for five seconds.

Presetting Volume for Traffic Information/News

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

1 Tune into the station for which you want to set the volume.

2 Adjust the volume to the desired level.

3 Hold down the TI VOL ADJ button for two seconds or more. The volume level blinks once in the display to indicate that the data has been stored.
Future traffic information/news broadcasts are heard at the preset level.

NOTE

• The volume cannot be lowered by this function during tuner reception. The volume is only set when it is louder than the listening volume of the tuner.
• You can arrange only to listen to traffic information or news bulletins with at preset volume with the volume set at minimum.

Radio Text Scroll

This function permits the text to be scrolled and the entire text to be displayed. The scrolling method differs depending on the setting of scrolling in the menu.

To scroll manually:
1 Press the DISP button to display the Radio Text.

2 Holding down the DISP button for one second or more results in one scrolling display of the text.

To scroll automatically:
1 Press the DISP button to display the Radio Text.
The text will be displayed in one scrolling display.

2 Holding down the DISP button for one second or more results in one scrolling display of the text.

NOTE

Please see the menu settings (page 32) about switching between manual scrolling and automatic scrolling.

English

Programme Type (PTY) Function

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

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

NOTE

You cannot use this function whilst the traffic bulletin is received.

NOTE Changing the Display Language to French, German, or Swedish
In the PTY mode, press the DISP button to display the name of the language currently used.
If you want to change the language, press the preset button for the desired language and then the DISP button.
English is #1, French is #2, German is #3, and Swedish is #4

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

Programme type	KRC-678R/678RV	KRC-578R
Speech	*(Speech)*	*(SPEECH)*
Music	*(Music)*	*(MUSIC)*
1. News	(News)	(NEWS)
2. Current Affairs	(Affairs)	(AFFAIRS)
3. Information	(Info)	(INFO)
4. Sports	(Sport)	(SPORT)
5. Education	(Educate)	(EDUCATE)
6. Drama	(Drama)	(DRAMA)
7. Culture	(Culture)	(CULTURE)
8. Science	(Science)	(SCIENCE)
9. Varied	(Varied)	(VARIED)
10. Pop Music	(Pop M)	(POP M)
11. Rock Music	(Rock M)	(ROCK M)
12. Easy Listening Music	(Easy M)	(EASY M)
13. Light Classical	(Light M)	(LIGHT M)
14. Serious Classical	(Classics)	(CLASSICS)
15. Other Music	(Other M)	(OTHER M)
16. Weather	(Weather)	(WEATHER)
17. Finance	(Finance)	(FINANCE)
18. Children's programmes	(Children)	(CHILDREN)
19. Social Affairs	(Social A)	(SOCIAL A)
20. Religion	(Religion)	(RELIGION)
21. Phone In	(Phone In)	(PHONE IN)
22. Travel	(Travel)	(TRAVEL)
23. Leisure	(Leisure)	(LEISURE)
24. Jazz Music	(Jazz)	(JAZZ)
25. Country Music	(Country)	(COUNTRY)
26. National Music	(Nation M)	(NATION M)
27. Oldies Music	(Oldies)	(OLDIES)
28. Folk Music	(Folk M)	(FOLK M)
29. Documentary	(Document)	(DOCUMENT)

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

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

1. *Music*   2. *Speech*   3. News
4. Other Music   5. Serious Classical 6. Varied

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

3 *Seeking the selected programme type*
Press the I◄◄ or ►►I button to make a seek of frequencies with your selected type of programme.
The display blinks and the seek starts.
"PTY" blinks in the display for about 30 seconds.
If you make no key input in 30 seconds, the PTY selection mode will turn off automatically.

NOTE

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

Switching to Other Stations with the Same Type of Programme:
When "PTY" is blinking in the display, perform auto seek tuning.

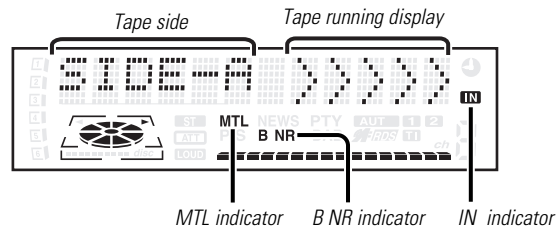The tuner scans for another station with the same type of programme.

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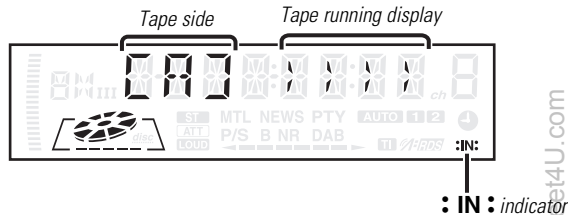
Cassette player features

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Tape side   *Tape running display*

SIDE-A >>>>

MTL indicator   *B NR indicator*   *IN indicator*

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Tape side   *Tape running display*

:IN: indicator

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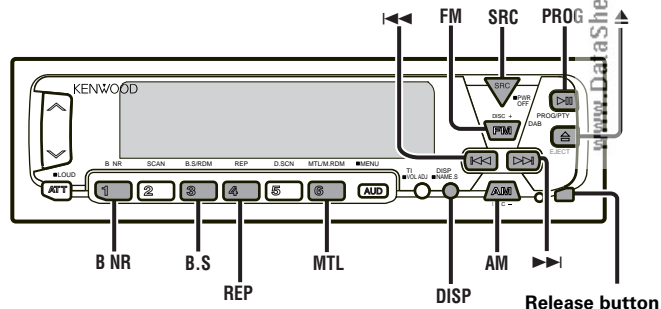
Playing Cassette Tapes

Loading and Playing Cassettes:
Press the release button to slide open the faceplate, showing the cassette insertion slot.
Holding the cassette with the tape exposed to the right, insert it in the slot. The tape will start playing.
Push back the bottom of the faceplate with your hand until it locks.
The **IN** indicator lights up when a cassette has been loaded.

⚠CAUTION

When inserting a cassette make sure the cassette has been completely drawn in before pushing back the faceplate. Failing to do so might deform the tape.

Playing Cassettes Already Loaded:
Press the SRC button repeatedly until the tape mode is obtained.
"TAPE" is displayed when the tape mode has been selected.
The tape will start playing.

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

Ejecting Cassettes:
Press the release button and slide open the faceplate.
Press the ▲ button.
The tape stops playing and the cassette ejects.
Push back the bottom of the faceplate with your hand until it locks.

⚠CAUTION

• When the faceplate has been slid open, it might interfere with the shift lever or something else. If this happens, pay attention to safety and move the shift lever or take an appropriate action, then operate the unit.
• Do not use the unit with the faceplate in the open condition. Doing so will cause breakdown.

NOTE

• Remove a cassette from the unit when not listening to it for a whilst. If you leave it in the unit too long, the tape may stick to the tape head and cause the unit to malfunction.
• The only buttons that will work during the eject state are the ▲ and ATT buttons.

Fast Forwarding and Rewinding Cassette Tapes

Fast Forwarding Tapes:
Press the FM button.

Rewinding Tapes:
Press the AM button.

Cancelling:
Press the PROG button.
Normal tape play returns.

Function of the KRC-678R/KRC-678RV

Using Dolby B Noise Reduction

Listen to tapes recorded using the Dolby B NR system.

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

Function of the KRC-678R/KRC-678RV

Switching Tape Types

Select type of tape being played.

Switching Tape Types:
Press the MTL button to switch the MTL 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:
CrO_2 (Type II)　FeCr (Type III)　Metal (Type IV)

Selecting the wrong tape type may cause sound quality to suffer.

Using DPSS (Direct Programme Search System)

Skip forwards or backwards to other tracks during playback.

Skipping to Beginning of Current Track or to Previous Tracks (Rewind DPSS):
Press the |◀◀ 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 9 tracks this way.
Playback is continued after the tape is rewound by the indicated number of tracks.

Skipping to Later Tracks (Fast Forward DPSS):
Press the ▶▶| button.
Press once to fast forward to the next one track, twice to fast forward to the track after that, and so forth.
Up to 9 tracks can be skipped.
Playback is continued after the tape is fast forwarded by the indicated number of tracks.

NOTE

• During the first 5 seconds of each track, the previous track is considered the "current" track (i.e., the "0" track). If you press the |◀◀ 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 (i.e., the space between tracks). However, when the blank space lasts for less than 4 seconds or contains noise, DPSS may not operate correctly. Furthermore, quiet intervals within a song are detected as "blank spaces" if they last for 4 seconds or more.

Cancelling DPSS During Its Operation:
Press the PROG button.

Blank Skip

Automatically fast forwards to the beginning of the next track when long blank spaces (10 seconds or more) are detected, continuing tape playback. This function is on, when unit is first powered on.

Turning Blank Skip Function On/Off:
Press the B.S button to switch the blank skip function on and off.
"B.Skip/B.S ON" is displayed when the blank skip function is turned on.

NOTE

• If the blank space contains hiss noise, the blank skip function may not work correctly.
• Sections recorded at low levels may trigger the blank skip function if they last for 10 seconds or more.

Music Repeat

Repeatedly plays the current track.

Turning Music Repeat Function On/Off:
Press the REP button to switch the music repeat function on and off.
"Repeat/REP ON" is displayed when music repeat is turned on.

Cancelling Music Repeat Function:
Press either the REP or PROG button.

NOTE

The music repeat function "knows" where a track begins by detecting the blank space preceding it (i.e., the space between tracks). However, when the blank space lasts for less than 4 seconds or contains noise, this function may not operate correctly. Furthermore, sections recorded at low levels may trigger the function if they last for 4 seconds or more.

English

Cassette player features

Tape counter display

Switching the Tape display :
Each time you press the DISP button, the display during tape
play switches as follows:

Play side/Tape counter
▼
Clock
▼
Date
▼
Play side
▼
Play side/Tape running
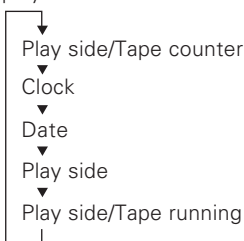
NOTE

• The tape counter is not exact, but only represents an
approximation of the elapsed time.
• The ◗ indicator lights whilst the clock is displayed.

External disc control features

SCAN   REP   M.RDM   DISP/
                      NAME.S   DISC-
   RDM   D.SCN

KRC-678R/678RV

Disc number   Track number   Track time

KRC-578R

Track number   Track time

Disc number

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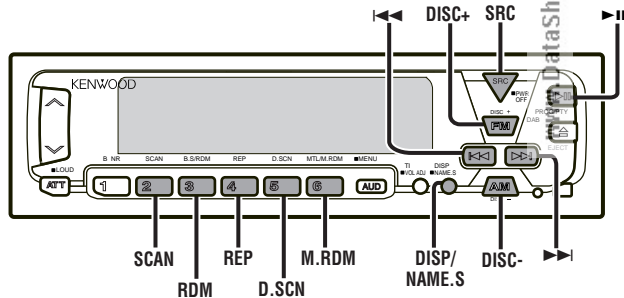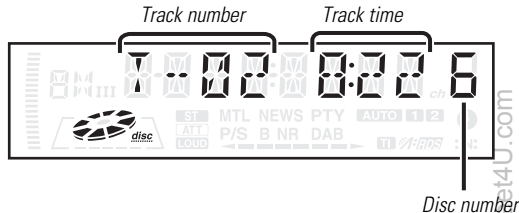
■ When a unit equipped with an O-N switch is to be connected, please also see the instruction manual of this unit.
Set the O-N switch to "N". "N"-operation will be set.

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

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

NOTE

The CD text, Presetting Disc Names, and Disc Name Preset Play functions may not be operational depending on the unit.

Playing Disc mode

This funciton permits the connection of optional players and the playing of discs.

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

NOTE

The external disc control mode will differ, depending on the unit that is connected.
Mode Display Examples
- "CD" ...when a CD player is connected
- "DISC" ...when a disc changer is connected
- "DISC-1" , "DISC-2" ...when two disc changers are connected

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

NOTE

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

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English

Switching Display for Discs

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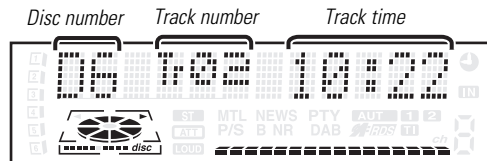
Switching Display for Discs:

Each time you press the DISP button, the display during disc play switches as follows.

Track time
▼
Disc name (DNPS)
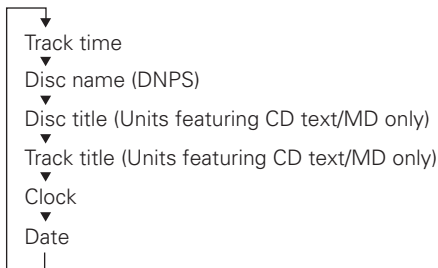▼
Disc title (Units featuring CD text/MD only)
▼
Track title (Units featuring CD text/MD only)
▼
Clock
▼
Date

NOTE

• You can give names to discs through the presetting disc name function (see p. 22).
  Note that depending on the unit, display may not be possible.
• If you try to display the name of a disc that does not have one, "NO NAME" is displayed instead.
• When there is an attempt to display the title of a disc for which the disc title/track title has not been recorded, "NO TEXT" is displayed for CD and "NO TITLE/NO NAME" is displayed for MD.
• Depending on the type of characters of the CD Text, some characters may not be displayable.
• The ⏻ indicator lights whilst the clock is displayed.

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 depending on the model being connected. Instead, the reverse play function is cancelled when it reaches the beginning of a track, at which point normal play automatically resumes.

Track Search

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

Making a Reverse Track Search:

Press the 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 (For disc changers)

Pressing the I◄◄ button whilst listening to track 1 only searches back to the beginning of that track. The reverse search is not "recycled" to the last track on the disc.

Making a Forward Track Search:

Press the ►►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 (For disc changers)

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

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Disc Search

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

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

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

| NOTE |

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

Track / Disc Repeat

Repeat playing the current track or disc.

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

Track Repeat ON
▼
Disc Repeat ON
▼
Track/Disc Repeat OFF
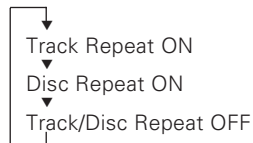
"T-Repeat/T-REP ON" is displayed and the track number blinks in the display when track repeat is on.
"D-Repeat/D-REP ON" is displayed and the disc number blinks in the display when disc repeat is on.

| NOTE |

Repeat play is cancelled when you eject the disc.

External disc control features

English

Presetting Disc Names (DNPS)

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.
- The disc name preset function cannot be used when a disc title name or track title is displayed.

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

3 Press either the |◄◄ or ►►| button to move the cursor to the desired position.
The |◄◄ button moves the cursor to the left, and the ►►| button to the right.

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

Alphabet (upper case): A ~ Z

Alphabet (lower case): a ~ z (KRC-678R/678RV Only)

Numerals and symbols: 0~9 @ ″ ' ` % & ＊ + - = , . / \ < > [ ]

Special characters: á à é ê í ì ó ô ú û Ñ Ç Ş ß ï Ŀ à ä ã é
ê ï ï ö ö ü ü Ñ ç ş ÿ ¡ ¿
(KRC-678R/678RV Only)

NOTE

The operation and characters that can be entered may change as listed below, depending on the unit that is connected.

A press of the ►II button exits the disc name preset mode.
Operations can be followed again from Step 2 at a time such as this, and the characters to be input are selected using the procedure described below.
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].

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

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

NOTE

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

Track Scan

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

Starting the Track Scan:
Press the SCAN button. "T-Scan/TSCN ON" is displayed and the first 10 seconds of each track are played, and the tracks are played in order.

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The track number currently being heard blinks in the display.

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

NOTE
• The track scan function is cancelled when you eject the disc.
• The track scan function 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.

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

Stopping to Listen to the Disc Being Scanned:
Press the ►II or D.SCN button again to stop the scan and keep on listening to the disc normally.

NOTE
• The disc scan function is cancelled when you eject the disc.
• The disc scan function only scans each disc on the changer once.
• "LOAD" is displayed when discs are being exchanged on the disc changer.

Text Scroll

This function permits the text to be scrolled and the entire text to be displayed. The scrolling method differs depending on the setting of scrolling in the menu.

To scroll manually:
1 Press the DISP button to display the disc title or the track title.

2 Holding down the DISP button for one second or more results in one scrolling display of the titles.

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

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

2 Holding down the DISP button for one second or more results in one scrolling display of the titles.

NOTE
Please see the menu settings (page 32) about switching between manual scrolling and automatic scrolling.

English

Random Play

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

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

NOTE

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

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

NOTE

Random play is cancelled when you eject the 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 the magazine random play function on and off.
"M-Random/MRDM ON" is displayed when magazine random play is turned on.
The display of the disc and track numbers change continuously as the next track is being selected.
When the disc/track has been selected, play starts.
The selected disc/track number blinks in the display as it is being played.

NOTE

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

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

NOTE

• Magazine random play is cancelled when you eject the disc.
• The time needed for random selection depends on the number of discs loaded in the disc magazine.

Menu settings

#1-4 **MENU** **DISP** **AM/DISC-** **►►I**

FM/DISC+ **SRC** I◄◄ ►II

KRC-678R/678RV

Menu display

AUTO indicator

Beep ON

NEWS indicator   *A·RDS* indicator

KRC-578R

Menu display

AUTO indicator

BEEP ON
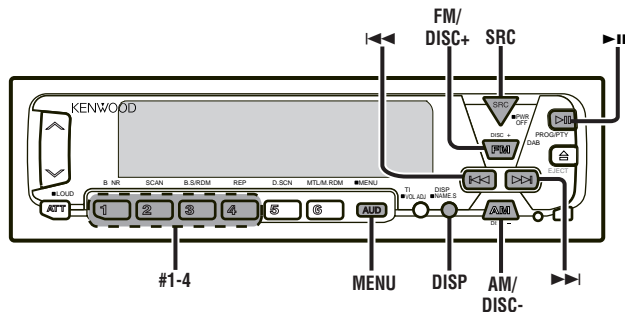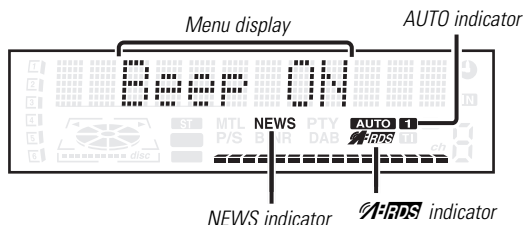
NEWS indicator   *A·RDS* indicator
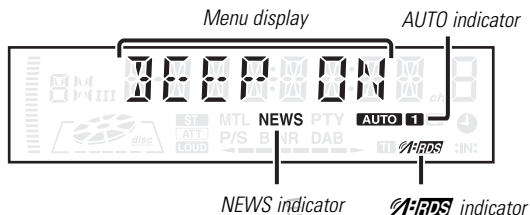
Menu System

You can set the defaults for additional functions in the menu mode.
Make a setting for each function, referring to the following operations.

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

2 *Selecting function to set*
   Press the FM button to search through the functions until you see the one you want to adjust in the display.
   Press the AM button to search through the functions backward.
   Example: If you want to switch the setting of the touch sensor tone function from on to off, first search through the functions until you see "Beep/BEEP ON" in the display.

   Beep ON BEEP ON

3 *Changing setting for currently displayed function*
   Press either the I◄◄ or ►►I button.
   The setting will change for each function.
   Example: The setting of the touch sensor tone will switch from on to off, and "Beep/BEEP OFF" is displayed.

   Beep OFF BEEP OFF

4 *Ending the menu mode*
   Press the MENU button.

NOTE

Make sure to end the menu mode when finished.
If you fail to end the menu mode, several functions may not operate properly, including the Traffic Information function and the Alarm function.

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Menu settings

English

Touch Sensor Tone

This function produces a beep sound that accompanies button operation. It can be switched on or off.

Display and setting:
"Beep/BEEP ON" : Beep setting is on.
"Beep/BEEP OFF" : Beep setting is off.

NOTE

The beep sound is not output from the preout jacks.

Manual Time Adjustment

Adjust the time manually.

NOTE

This adjustment is available only when the automatic time adjustment is set to off. (page 27)

Display and setting:
1 Select the display "Clock Adjust/CLK ADJ" during the selecting function in the menu system.

2 Hold down either the I◄◄ or ►►I button for two seconds or more to enter the Manual time adjustment mode.
The time display will blink.

3 • Adjusting the hours
Press the FM button to advance the hours, or press the AM button to make the hours go back.
• Adjusting the minutes
Press the ►►I button to advance the minutes, or press the I◄◄ button to make the minutes go back.

4 Press the MENU button to end the menu mode.

Calendar Adjustment

Adjust the date for the unit so that you can use the calendar function.

Display and setting:
1 Select the display "Date Adjust/DATE ADJ" during the selecting function in the menu system.

2 Hold down either the I◄◄ or ►►I button for two seconds or more to enter the Calendar adjustment mode.
The date display will blink.

3 *Selecting the item (day, month, or year) to adjust*
Press the I◄◄ or ►►I button.
The item blinking in the display can be adjusted.

4 *Adjusting the date*
Press the FM or AM button.
The item of the date blinking in the display will change.

5 Press the MENU button to end the menu mode.

Calendar Mode

You can set the date formats of the calendar function.

Display and setting:
1 Select the display "Date Mode/DATE MOD" during the selecting function in the menu system.

2 Press the I◄◄ and ►►I button to select the date format you want to show in the display.
The sample of the date format for today is displayed.

Memo Mode

You can input the text to be displayed and set the date when that text will appear in the display with the calendar function.

Display and setting:
1 Select the display "Memo Mode/MEMO MOD" during the selecting function in the menu mode.

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2 Hold down either the I◄◄ or ►►I button for two seconds or more to enter the Memo mode.
The date display will blink.

3 *Selecting the set of the date and text to be displayed*
Press the FM and AM button.
If you want to input a new text, select the blank display.

4 *Entering the month or day setting mode*
Press the I◄◄ and ►►I button to enter the month or day setting mode.
The month display will blink enter the month setting mode, the day display will blink enter the day setting mode.

5 *Changing the month or day*
Press the FM and AM button.

6 *Entering the text input mode*
Press the ►►I button to enter the text input mode.
The cursor blinks in the position where character input can be made.

7 *Inputting / Changing the text*
• Moving the cursor
Press the I◄◄ and ►►I button.
• Changing the type of characters
Press the ►II button.
Each time the button is pressed, the type of characters switches as follows.

Alphabet (upper case): A ~ Z

Alphabet (lower case): a ~ z (KRC-678R/678RV Only)

Numerals and symbols: 0~9 @ " ' ` % &   ∗ + - = , . / \ < > [ ]

Special characters: ä å è é ì í ò ô ù û Ñ Ç Ş ß ï Ŵ å ä ä e
è ï í ö ô ù û Ñ ç ş ẳ ï ŵ
(KRC-678R/678RV Only)

• Selecting the character
Press the FM and AM button.

8 Press the MENU button to end the menu mode.

NOTE

• The text you selected automatically appears on the date you set when the unit's power is first turned on. (Calendar function)
Pressing the DISP button for one second or more scrolls the display once, regardless of the text scroll setting.
Pressing a button other than the DISP button will cause the text to disappear from the display.
• You can enter up to 32 characters for each text.
• The calendar function can be set up to 30 cases.
• To delete the date and text setting, set both the month and day of the date to "00" or set all of the text to blanks.

Automatic Time Adjustment

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

Display and setting:
"SYNC ON" : Automatic time adjustment
"SYNC OFF" : Manual time adjustment

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

NOTE

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

English

Code Security Function

After a security code has been registered, power cannot be restored if the battery is disconnected from the unit unless the code is first input.

> **NOTE**
> All the steps in this procedure (1 through 8) must be completed before the code security function can be turned on. However, once the procedure is finished, it need not be repeated. Once the code security function has been activated, "Security/SECURITY" disappears from the MENU system. Note that it will no longer be possible to cancel this function afterwards.

1 Press the SRC button repeatedly to select the standby mode. "ALL OFF" is displayed when the standby mode is selected.

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

3 Press the FM button repeatedly until "Security/SECURITY" appears in the display.
Press the AM button to search in the other direction.

4 Hold down either the ◄◄ or ►►I button for two seconds or more.
"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.

5 Press the preset button and enter your security code.
Use the security code shown on your Car Audio Passport.
Example: Enter "3510" as your code, pressing the buttons as follows:

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

6 Hold down the DISP button for three seconds or more.

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.

7 Press the Preset button and input the security code again.

8 Hold down the DISP button again for three seconds or more.
"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.
"ENTER" and "CODE" will appear in the display, asking you to input the code.

> **NOTE**
> If you input an incorrect security code, the code setting mode will be cancelled automatically. Follow the steps from 4 to 8 above again.

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 7 and 8 above, and input the security code.
You can start operating the unit again when "APPROVED" appears in the display.

> **NOTE**
> If you enter the wrong code, "WAITING" is displayed and you cannot make further input of the code for a fixed interval (see table below), which grows longer each time you enter the wrong code.
> When "CODE" is displayed, you can make input again.

Number of wrong inputs	Interval until next input is allowed
1	-
2	5 minutes
3	1 hour
4	24 hours

The number of wrong inputs is displayed.

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Selectable Illumination

You can switch the colour of the button illumination between green and red.

Display and setting:
"Color Green/COL GRN" : The colour of the illumination is green.
"Color Red/COL RED" : The colour of the illumination is red.

Function of the KRC-678R/KRC-678RV

Contrast Adjustment

This adjustment permits easy viewing of the display.

Display and setting:
"Contrast 0" – "Contrast 10"

NOTE

The initial setting value is "5" .

Function of the KRC-678R/KRC-678RV

Dimmer

You can dim the display.

NOTE

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

Display and setting:
"Dimmer ON" : The dimmer setting is on.
"Dimmer OFF" : The dimmer setting is off.

Switching Graphic Display

You can turn the movement of graphic display on and off.
The initial setting is ON.

Display and setting:
"Graphic/GRAP ON" : The graphic display works.
"Graphic/GRAP OFF" : The graphic display does not work.

Black Mask

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

Display and setting:
"BLK MASK/BMSK ON" : The display will turn on by using only the upper part of the display and the IN indicator (KRC-678R/678RV only).
"BLK MASK/BMSK OFF" : The display will turn on by using the whole part of the display.

ec4/dB (Sound Coodinate system)

When this system is set to on, the sound coordinate factors (Bass frequency, Bass quality, Bass extension, and Treble frequency) appear during the audio control mode.

Display and setting:
"ec4/dB (set) ON" : The sound coordinate factors appear and can be adjusted.
"ec4/dB (set) OFF" : The sound coordinate factors are not appeared.

Menu settings

News Bulletin Function with PTY News Timeout Setting

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

Display and setting:
"NEWS OFF/ 00min(M)/ 10min(M)/ 20min(M)/ 30min(M)/
40min(M)/ 50min(M)/ 60min(M)/ 70min(M)/ 80min(M)/ 90min(M)"
(min(M)= minutes)
 : When you select the news interruption timeout interval, the News function turns on and the NEWS indicator lights up. When a news bulletin is received, "NEWS" will be displayed and reception will begin at the preset volume.

NOTE

• If you choose the "20min(M)" setting, further news bulletins will not be received for 20 minutes once the first news bulletin is received.
• This function is only available if the desired station sends PTY-code for news bulletin or belongs to <Enhanced Other Network>-Network sending PTY-code for news bulletin.
• If you turn on the news bulletin function in the MW/LW band, the band is switched automatically to the FM band. However, the MW/LW band is not returned to when you turn off the function.

Local Seek Function

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

Display and setting:
"Local.S/LO.S ON" : The local seek function is on.
"Local.S/LO.S OFF" : The local seek function is off.

Selecting Tuning Mode

You can choose from three tuning modes: auto seek, preset station seek, and manual. The "AUTO 1" indicator lights up when auto seek tuning is selected, and the "AUTO 2" indicator lights when preset station seek tuning is selected.

Display and setting:
"Auto 1/AUTO 1" : Auto seek tuning mode
"Auto 2/AUTO 2" : Preset station seek tuning mode
"Manual/MANUAL" : Manual tuning mode

Auto Memory Entry

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

Display and setting:
1 Select the display "Auto-Memory/A-MEMORY" during the selecting function in the menu system.

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

NOTE

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

Cancelling Auto Memory Entry During Its Operation:

Press the MENU button whilst auto memory entry is taking place to stop the process.

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

AF (Alternative Frequency) Function

When poor reception is experienced, automatically switch to another frequency broadcasting the same programme in the same RDS network with better reception.
The *A:RDS* indicator lights up when the AF function is turned on.

Display and setting:
"AF ON" : The AF function is on.
"AF OFF" : The AF function is off.

NOTE

- When no other stations with stronger reception are available for the same programme in the RDS network, you may hear the incoming broadcast in bits and snatches. Turn off the AF function in such a case.
- The AF function can be turned on or off even when the standby mode has been turned on. If the power is on, the AF function tunes in to stations that offer good reception.

Restricting RDS Region (Region Restrict Function)

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

Display and setting:
"Regional/REG ON" : The Region Restrict Function is on.
"Regional/REG OFF" : The Region Restrict Function is off.

NOTE

Sometimes stations in the same network broadcast different programmes or use different programme service names.

Auto TP Seek Function

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

Display and setting:
"ATPS ON" : The Auto TP Seek Function is on.
  If the traffic information station you are tuned to experiences poor reception, this function automatically seeks another TP station.
"ATPS OFF" : The Auto TP Seek Function is off.

Monaural Reception

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

Display and setting:
"MONO ON" : The monaural reception is on.
"MONO OFF" : The monaural reception is off.

Menu settings
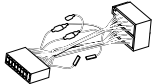
Text Scroll

This function permits the CD text, MD title, Radio text, and Calender function to be scrolled and the entire text to be displayed. Switching Switching between manual scrolling and automatic scrolling is permitted. The factory default is manual scrolling.

Display and setting:
　"Scroll Auto/SCL AUTO" : Automatic scrolling
　"Scroll Manu/SCL MANU" : Manual scrolling

Accessories

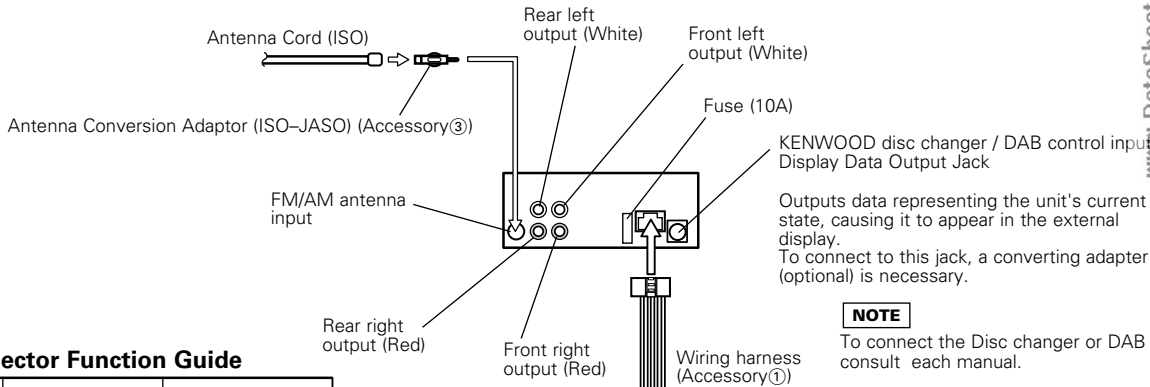| External view	Number of items
①	1
②	2
③	1
④	1

⚠CAUTION

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

Installation Procedure

1. To prevent short circuits, remove the key from the ignition and disconnect the ⊖terminal of the battery.

2. Make the proper input and output cable connections for each unit.

3. Connect the cable on the wiring harness.

4. Take Connector B on the wiring harness and connect it to the speaker connector in your vehicle.

5. Take Connector A on the wiring harness and connect it to the external power connector on your vehicle.

6. Connect the wiring harness connector to the unit.

7. Install the unit in your car.

8. Reconnect the ⊖ terminal of the battery.

9. Press the reset button.

⚠CAUTION

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

English

Antenna Cord (ISO)

Antenna Conversion Adaptor (ISO–JASO) (Accessory③)

FM/AM antenna input

Rear left output (White)

Front left output (White)

Fuse (10A)

KENWOOD disc changer / DAB control input/ Display Data Output Jack

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

Rear right output (Red)

Front right output (Red)

Wiring harness (Accessory①)

NOTE

To connect the Disc changer or DAB unit, consult each manual.

TEL mute cable (Brown)

Connect to the terminal that is grounded when either the telephone rings or during conversation.

TEL MUTE

NOTE

To connect the KENWOOD navigation system, consult your navigation manual.

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

Battery cable (Yellow)

Ignition cable (Red)

Power control/ Motor antenna control cable (Blue/White)

P.CONT

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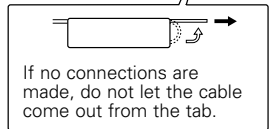
Connect either to the power control terminal when using the optional power amplifier, or to the antenna control terminal in the vehicle.

A–7 Pin (Red)

A–4 Pin (Yellow)

Connector A

| 8 | 6 | 4 | 2 |
| 7 | 5 | 3 | 1 |

Connector B

| 8 | 6 | 4 | 2 |
| 7 | 5 | 3 | 1 |

Connector Function Guide

Pin Numbers for ISO Connectors	Cable Colour	Functions
External Power Connector		
A–4	Yellow	Battery
A–5	Blue/White	Power Control
A–6	Orange/White	Dimmer
(KRC-678R/ 678RV only)		
A–7	Red	Ignition (ACC)
A–8	Black	Earth (Ground) Connection
Speaker Connector		
B–1	Purple	Rear Right (+)
B–2	Purple/Black	Rear Right (−)
B–3	Gray	Front Right (+)
B–4	Gray/Black	Front Right (−)
B–5	White	Front Left (+)
B–6	White/Black	Front Left (−)
B–7	Green	Rear Left (+)
B–8	Green/Black	Rear Left (−)

⚠WARNING Connecting the ISO Connector (see p.34)

The pin arrangement for the ISO connectors depends on the type of vehicle you drive. Make sure to make the proper connections to prevent damage to the unit.
The default connection for the wiring harness is described in ① below. If the ISO connector pins are set as described in ② or ③, make the connection as illustrated.

① (Default setting) The A-7 pin (red) of the vehicle's ISO connector is linked with the ignition, and the A-4 pin (yellow) is connected to the constant power supply.

Unit		*Vehicle*
Ignition cable (Red)	⟩━▣◧▶ ▣◧◁━⟨	A–7 Pin (Red)
Battery cable (Yellow)	⟩━▣◧▶ ▣◧◁━⟨	A–4 Pin (Yellow)

② The A-7 pin (red) of the vehicle's ISO connector is connected to the constant power supply, and the A-4 pin (yellow) is linked to the ignition.

Unit		*Vehicle*
Ignition cable (Red)	⟩━▣◧▶ ▣◧◁━⟨	A–7 Pin (Red)
Battery cable (Yellow)	⟩━▣◧▶ ▣◧◁━⟨	A–4 Pin (Yellow)

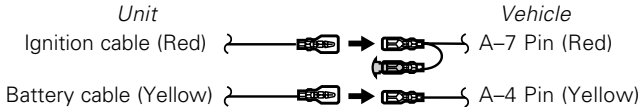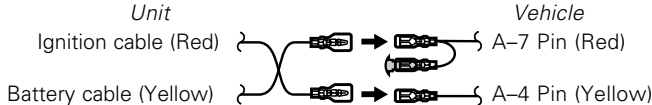③ The A-7 pin (red) of the vehicle's ISO connector is not connected to anything, whilst the A-4 pin (yellow) is connected to the constant power supply (or both the A-7 (red) and A-4 (yellow) pins are connected to the constant power supply).

Unit		*Vehicle*
Ignition cable (Red)	➡	Connect to a power source that can be turned on and off with the ignition key.
Battery cable (Yellow)	⟩━▣◧▶ ▣◧◁━⟨	A–4 Pin (Yellow)

Installation

■ *Installation*

Firewall or metal support

Screw (M4X8) (commercially available)

Self-tapping screw (commercially available)

Metal mounting strap (commercially available)

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).

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English

■ *Removing the hard rubber frame*

1 Refer to the section "Theft deterrent faceplate (P. 6)" and then remove the faceplate.

2 Engage the catch pins on the removal tool and remove the two locks on the upper level.
Push upward the frame and pull it forward as shown in the figure.

Lock   Catch

Accessory②
Removal tool

3 When the upper level is removed, remove the lower two locations.
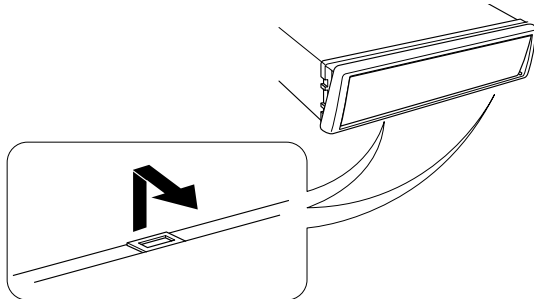
NOTE

The frame can be removed from the bottom side in the same manner.
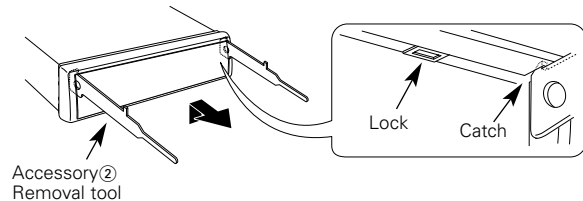
■ *Removing the Unit*

1 Refer to the section "Removing the hard rubber frame (P. 36)" and then remove the hard rubber frame.

2 Remove the Hex-head screw with integral washer (M4×8) on the back panel.

3 Insert the two removal tools deeply into the slots on each side, as shown.

Screw (M4X8)
(commercially
available)

Catch facing up

Accessory②
Removal tool
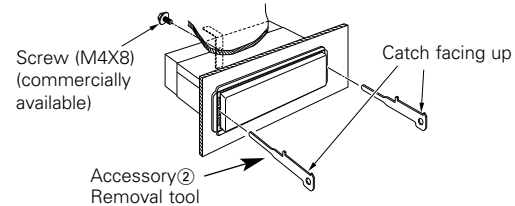
4 Push upward the removal tool toward the top, and pull out the unit halfway whilst pressing towards the inside.
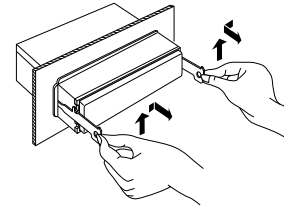
⚠CAUTION

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.

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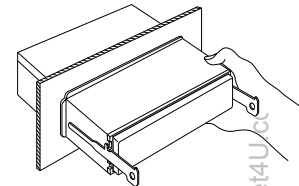
Locking the faceplate to the unit

■ *Locking the faceplate to the unit*

If you want to lock the faceplate to the unit so that it does not fall off, follow the directions below.

1 Refer to the function "Theft deterrent faceplate" (page 6) and remove the faceplate.

2 Insert the provided screw into the hole at the centre of the bottom side of the faceplate which you have removed from the unit.

Accessory④
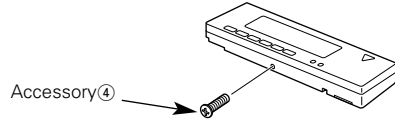
3 Push back the bottom of the faceplate bracket unit it locks.

4 Refer to the section "Theft deterrent faceplate (page 6)" and then reattaching the faceplate.

⚠CAUTION

Never insert the taptite screws (ø2 × 6 mm) in any other screw holes than the one specified. If you insert it in another hole, it will contract and may cause damage to the mechanical parts inside the unit.

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 cables, replace the fuse with one having the same rating.
	No ACC position on vehicle ignition.	Connect the same cable to the ignition as the battery cable.
No sound can be heard, or the volume is low.	The Attenuator function is turned on.	Turn off the Attenuator function.
	The fader and/or balance settings are set all the way to one side.	Reset the fader and/or balance settings.
	The input/output cables or wiring harness are connected incorrectly.	Reconnect the input/output cables and/or the wiring harness correctly. See the section on "Connecting Cables to Terminals".
	The cassette tape is bad.	Try playing another cassette tape. If no problem is experienced, 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 page 4).
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 page 4).
	A speaker cable may be pinched by a screw in the car.	Check the speaker wiring.
	The speakers are not wired correctly.	Reconnect the speaker cables so that each output terminal is connected to a different speaker.
Radio reception is poor.	The car antenna is not extended.	Pull out the antenna all the way.
	The antenna control cable is not connected.	Connect the cable correctly, referring to the section on "Connecting Cables to Terminals".
The memory is erased when the ignition is turned off.	The battery cable has not been connected to the proper terminal.	Connect the cable correctly, referring to the section on "Connecting Cables to Terminals".
	The ignition and battery cable are incorrectly connected.	Connect the cable correctly, referring to the section on "Connecting Cables to Terminals".

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PROBLEM	POSSIBLE CAUSE	SOLUTION
The TEL mute function does not work.	The TEL mute cable is not connected properly.	Connect the cable correctly, referring to the section on "Connecting Cables to Terminals".
The TEL mute function turns on even though the TEL mute cable is not connected.	The TEL mute cable is touching a metal part of the car.	Pull the TEL mute cable away from the metal part of the car.

External disc control mode

PROBLEM	POSSIBLE CAUSE	SOLUTION
The disc control 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 very dirty.	Clean the CD.
	The CD is upside-down.	Load the CD with the labelled 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 is wrong with the CD. 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 page 4).
The specified track does not play.	Random play or magazine random play has been selected.	Turn off the random play or magazine random play function.
Track repeat, disc repeat, track scan, disc scan, random play, and magazine random play start by themselves.	The setting is not cancelled.	The settings for these functions remain on until the setting to off or the disc ejected, even if the power is turned off or the source changed.

If the following situations, consult your nearest service centre:

• Even though the disc changer is connected, the Disc Changer Mode is not on, with "AUX" showing in the display during the Changer Mode.
• Even though no device (KCA-S210A, CA-C1AX, KDC-CPS85, KDC-CX85, KDC-CPS82 or KDC-CX82) is connected, the AUX Mode is entered when switching modes.

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Troubleshooting Guide

The following messages are displayed when certain problems are occurring in your system. Take the recommended actions.

EJECT	No disc magazine has been loaded in the changer. The disc magazine is not completely loaded. ⇨ Load the disc magazine properly. No CD in the unit. ⇨ Insert the CD.
NO DISC	No disc has been loaded in the disc magazine. ⇨ Load a disc into the disc magazine.
E-04	No disc has been loaded in the disc magazine. ⇨ Load a disc into the disc magazine. The CD is very dirty. The CD is upside-down. The CD is scratched a lot. ⇨ Clean the CD and load it correctly.
BLANK	Nothing has been recorded on the MD.
NO TRACK	No tracks are recorded on the MD, although it has a title.
NO PANEL	The faceplate of the slave unit being connected to this unit has been removed. ⇨ Replace it.
E-77	The unit is malfunctioning for some reason. ⇨ Press the reset button on the unit. If the "E- 77", code does not disappear, consult your nearest service centre.
E-99	Something is wrong with the disc magazine. Or the unit is malfunctioning for some reason. ⇨ Check the disc magazine. And then, press the reset button on the unit. If the "E- 99" code does not disappear, consult your nearest service 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 starts playing again.
IN	If this indicator continues blinking, it is possible that the tape has become jammed or tangled. ⇨ Contact the Kenwood dealer if the tape cassette cannot be ejected.

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Specifications

Specifications subject to change without notice.

FM tuner section

Frequency Range (50 kHz Space)................87.5 MHz-108.0 MHz
Usable Sensitivity (S/N: 26dB) ....0.7 µV/75 Ω
Quieting Sensitivity (S/N: 46dB)................................1.6 µV/75 Ω
Frequency Response (±3.0dB)................................30 Hz-15 kHz
Signal to Noise ratio ....65 dB (MONO)
Selectivity (DIN) ....≥ 80 dB (±400 kHz)
Stereo Separation..35 dB (1kHz)

MW tuner section

Frequency Range (9 kHz space) ....531 kHz-1611 kHz
Usable Sensitivity (S/N: 20dB) ....25 µV

LW tuner section

Frequency Range ....153 kHz-281 kHz
Usable Sensitivity (S/N: 20dB) ....45 µV

Cassette player section

Tape Speed ....4.76 cm/sec.
Wow & Flutter ....0.08 % (WRMS)
Frequency response (±3 dB)..........................30 - 18 kHz (70 µs)
Separation ....43 dB (1 kHz)
Signal to Noise ratio
     Dolby NR OFF (KRC-678R/678RV) ....57 dB
     Dolby B NR ON (KRC-678R/678RV) ....65 dB

Audio section

Preout Level(mV)/Load...1800 mV/10 kΩ
Preout Impedance..≤ 600 Ω
Maximum output power..45 W x 4
Full Bandwidth Power (DIN45324,+B=14.4 V) ....28 W x 4
Tone action
     Bass ....100 Hz ±10 dB
     Treble ....10 kHz ±10 dB

General

Operating voltage (11 - 16V allowable) ....14.4 V
Current Consumption ....10 A
Installation Size (W x H x D) ....182 x 53 x 155 mm
Weight ....1.6 kg

KENWOOD