KENWOOD STAGE 3

KRC-S300
KRC-S200
KRC-S100

CASSETTE RECEIVER
INSTRUCTION MANUAL

AMPLI-TUNER-LECTEUR DE CASSETTE
MODE D'EMPLOI

RADIO CASETE
MANUAL DE INSTRUCCIONES

RADIO CASSETE
MANUAL DE INSTRUÇÕES

KENWOOD CORPORATION

STAGE 3

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-S300/S200/S100 Serial number

Contents

Dear Customer:

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

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

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Set the dial and leave it there.

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

We Want You Listening For A Lifetime

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

Decible Level   Example

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

THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

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

Information courtesy of the Deafness Research Foundation.

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.

⚠WARNING

To prevent injury or fire, take the following precautions:

- Insert the unit all the way in until it is fully locked in place. Otherwise it may fall out of place when jolted.
- When extending the ignition, battery, or ground wires, make sure to use automotive-grade wires or other wires with a 0.75mm² 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 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.
- 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 / C705si**

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

- **KDC-C100 / KDC-C302 / C205 / C705 / non-Kenwood CD changers**

  Cannot be used with this model.

⚠CAUTION

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

NOTE

- If you experience problems during installation, consult your Kenwood dealer.
- Press the reset button if the disc auto changer is first controlled and operates incorrectly. The original operating condition will return.
- If the unit does not seem to be working right, consult your Kenwood dealer.
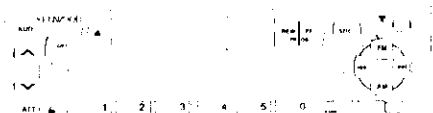
Reset button

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.
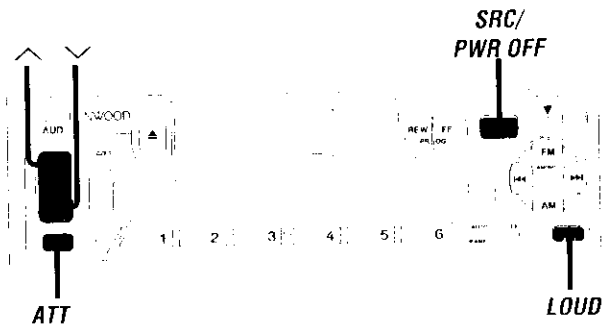
Cleaning the Tape Head

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.
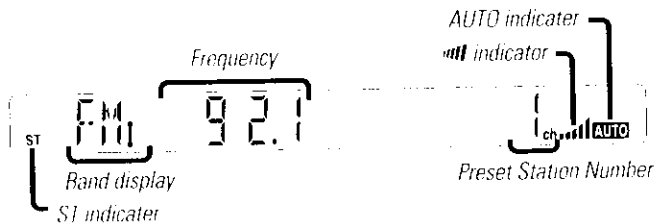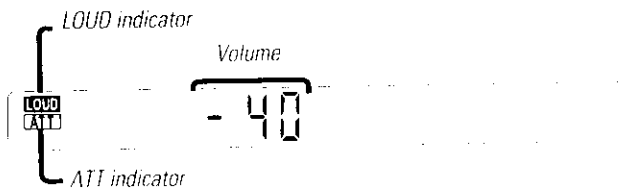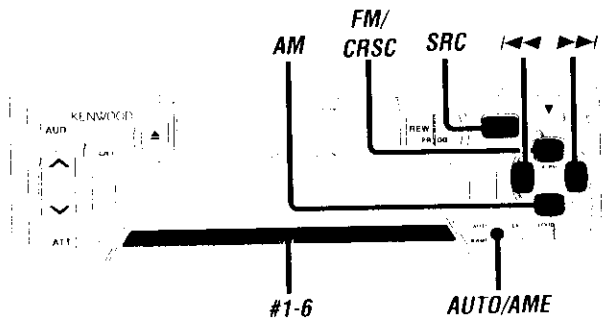
Handling Cassette Tapes

- 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 100-minute-long tapes. Such tapes are very thin, and can tangle easily around the pinch rollers or other parts inside the unit, causing unit failure.
- Remove a cassette tape from the unit when not listening to it for a while. If you leave a tape in the unit too long, it may stick to the tape head and cause unit malfunction.

Basic operations

Tuner features

SRC/
PWR OFF

ATT

LOUD

AM

FM/
CRSC

SRC

◄◄ ►►

#1-6

AUTO/AME

LOUD indicator

Volume

-40

ATT indicator

Frequency

FM 92.1

ST

Band display

ST indicator

AUTO indicater

◄◄ᴵᴵᴵ indicator

ch ◄◄ᴵᴵᴵ AUTO

Preset Station Number

Cassette player features
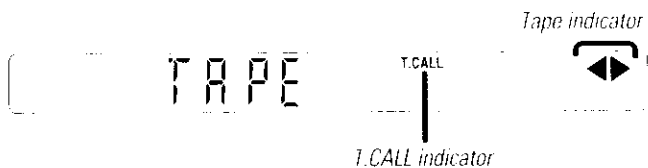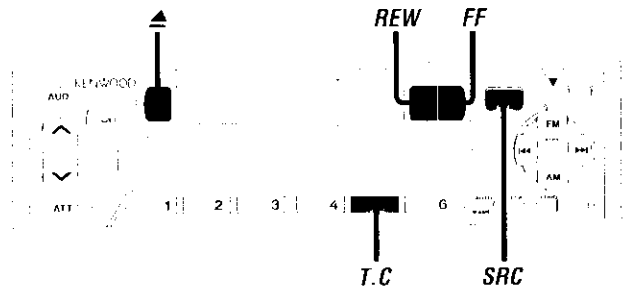
Disc changer control features

Function of the KRC-S300

REW   FF

T.C   SRC

DISC-   DISC+   SRC |◄◄   ►►|

SCN RDM REP D.SCN M.RDM

Tape indicator

T.CALL indicator

SCN indicator

Track number

RDM indicator

REP indicator

Disc indicator

Disc number
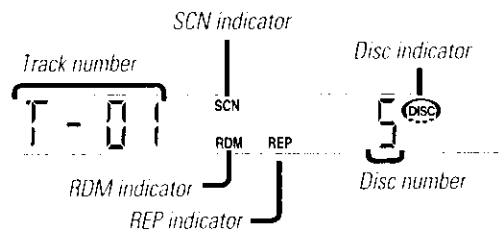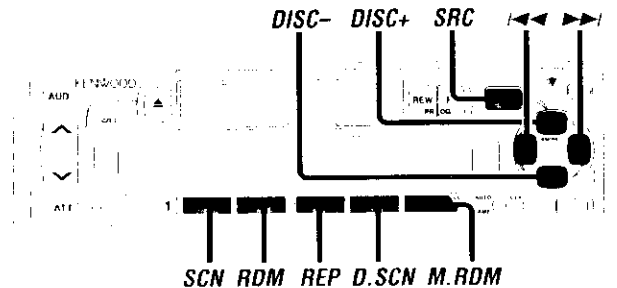
Buttons and Display

Other features

Clock display
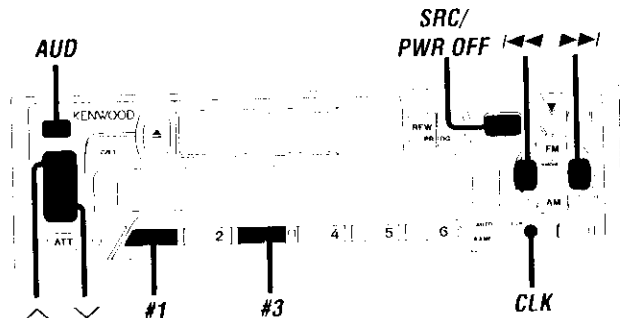
Basic operations *(See page 6)*

Power

Turning on the power:
Press the SRC (source) button

[NOTE]
Turn the power on before carrying out the following procedures.

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

Selecting standby mode:
Press the SRC button repeatedly and switch to "OFF."
When "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

Switching Modes

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

Tuner mode
Tape mode
Disc changer mode
Standby mode
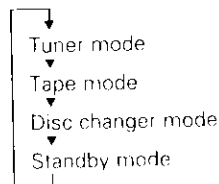
[NOTE]
The mode switches to the next mode from any mode which cannot be used.

Volume

Increasing Volume:
Press the ∧ button to turn up the volume.

Decreasing Volume:
Press the ∨ button to turn down the volume

Attenuator

This function allows you to turn down the volume quickly.

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

| NOTE |

Turning the volume all the way down deactivates the attenuator function.

Loudness

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

Turning Loudness On/Off:
Press the LOUD button to switch the loudness on and off.

Tuner features *(See page 6)*

Tuning

You can choose between auto seek tuning of receivable frequencies and manual tuning.

1 Press the SRC (source) button repeatedly to select the tuner mode "TUnE" is displayed when the tuner mode has been selected.

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 tuning 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.

English

Station Preset Memory

Store the frequency of a station. 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 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

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 six frequencies can be stored this way.

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.

Clean Reception System Circuit (CRSC)

Temporarily have reception switched from stereo to mono to reduce multi-path noise when listening to the FM station. The ꟲ indicator lights up when CRSC is on.

Turning CRSC On/Off:
Press the CRSC button for at least one second to turn the function on/off.

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.

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 paused.

Playing Cassettes Already Loaded:
Press the SRC (source) button repeatedly to select the tape mode. "TAPE" is displayed when the tape mode has been selected.

Listening to the other side:
Press the FF button and REW button at the same time.
Tape play switches to the other side.

Stopping and Ejecting Cassettes:
Press the ▲ button.
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, the tape may stick to the tape head and cause unit malfunction.

Fast Forwarding and Rewinding Cassette Tapes

Fast Forwarding Tapes:
Press the FF button.
The tape indicator blinks in the direction of the tape as it is being fast forwarded.
If the REW button is pressed, normal tape will begin.

Rewinding Tapes:
Press the REW button.
The tape indicator blinks in the direction of the tape as it is being rewound.
If the FF button is pressed, normal tape play will begin.

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.CALL indicator lights up when tuner call is turned on.

Playing Discs Using a Disc Changer

Playing Discs:
Press the SRC (source) button repeatedly to select the disc changer mode.
"DISC" is displayed when the unit is in the disc changer mode.
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".

[NOTE]
• When a MD has more than 100 track numbers, only the last two digits will be displayed for the track number.
• The disc title and track title for MDs cannot be displayed.

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.

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 ◄◄ 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 ◄◄ button while listening to track 1 will only search back to the beginning of that track. The reverse search is not 'recycled' to the last track on the disc.

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

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

Disc Search

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

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

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

[NOTE]
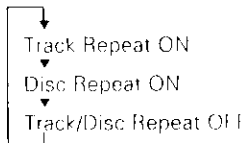"load" is displayed when discs are being exchanged on the disc changer

english

Track / Disc Repeat

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

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

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

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

[NOTE]
Repeat play is canceled when you stop playing the disc.

Track Scan

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

Turning Track Scan On/Off:
Press the 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.

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.

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Disc changer control features *(See page 7)*
Function of the KRC-S300

Magazine Random Play

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

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

| NOTE |

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

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

| NOTE |

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

Other features *(See page 8)*

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 ——

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

2 Press the ∨/∧ buttons to adjust the mode shown in the display.
Use the following table as a guide for adjusting the settings in each mode.

Adjustment mode (Display)	Operation of Audio control button	
	∨ button	∧ button
Bass ("BAS")	Bass decreased	Bass increased.
Treble ("TRE")	Treble decreased.	Treble increased.
Balance ("BL")	Left channel emphasized.	Right channel emphasized.
Fader ("FD")	Rear channel increased.	Front channel increased.

Clock Display

Display the time.

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

Adjusting Time

Adjust the time.

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

2 When holding down the CLK button, press the ⏮ or ⏭ button 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.

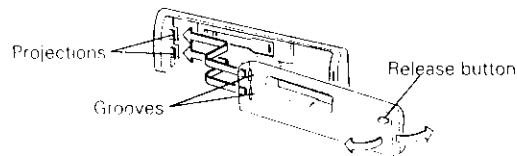### Turning Disabled System Indicator On/Off:
1 Turn the power of the unit off.

2 Simultaneously press the #1 and #3 buttons as you turn the power back on.

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.

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Accessories

External view **Number of items**

(1) 1

(2) 1

(3) 1

(4) 2

(5) 1

(6) 4

(7) 4

(8) 1

(KRC-S300/S200 Only)

⚠CAUTION

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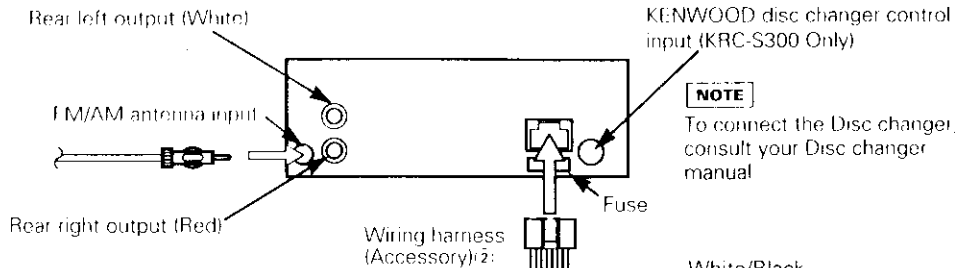
Installation Procedure

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 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.
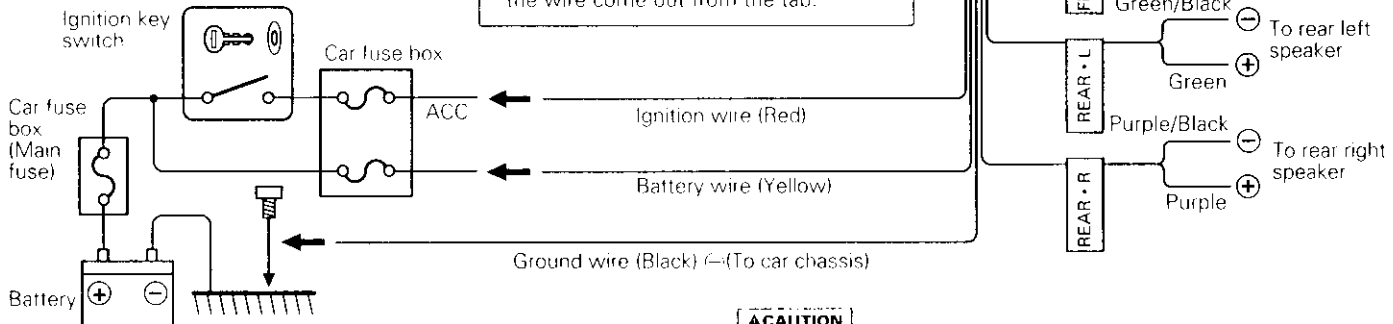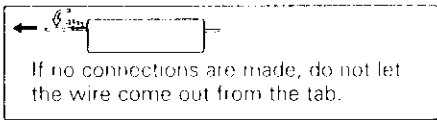- Insulate unconnected wires with vinyl tape or other similar material.

Connecting Cables to Terminals

Rear left output (White)

KENWOOD disc changer control input (KRC-S300 Only)

FM/AM antenna input

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

Rear right output (Red)

Fuse

Wiring harness (Accessory) i2:

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

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

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

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

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

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

Purple/Black ⊖ To rear right speaker ⊕
Purple | REAR · R

Ignition key switch

Car fuse box

Car fuse box (Main fuse)

ACC

Ignition wire (Red)

Battery wire (Yellow)

Battery ⊕ ⊖

Ground wire (Black) ⊖(To car chassis)

⚠WARNING

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

⚠CAUTION

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

■ Installation

Firewall or metal support

Accessory 5

Bend the tabs of the
mounting sleeve with
a screwdriver or simi-
lar utensil and attach
it in place

Phillips truss
head steel
metal screw
(commercially
available)

Accessory 3
Metal mounting
strap

Accessory 1
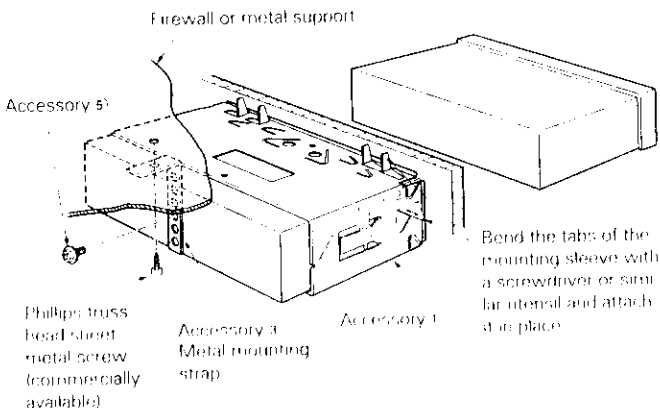
NOTE

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

■ Removing the hard rubber frame

1 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.

Lock   Catch

Accessory 4
Removal tool
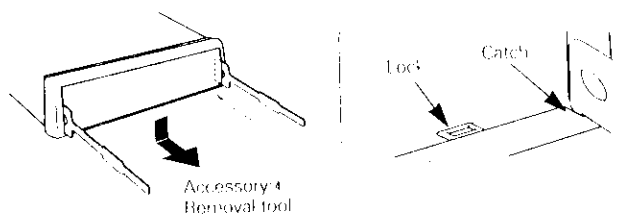
2 When the lower level is removed, remove the upper two loca-
tions.
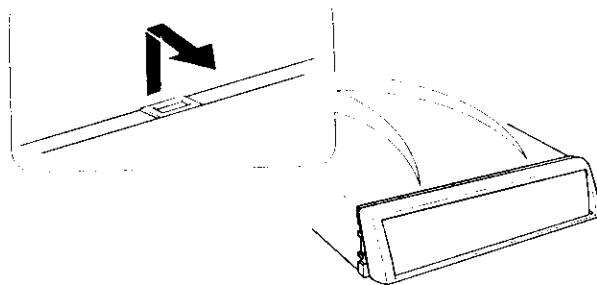
NOTE

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

3 Insert the two removal tools deeply into the slots on each side, as shown.
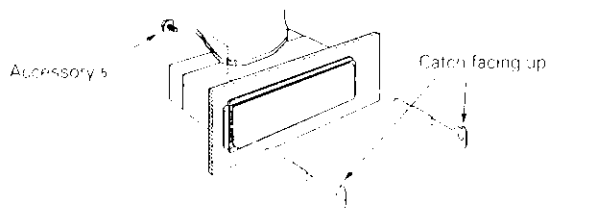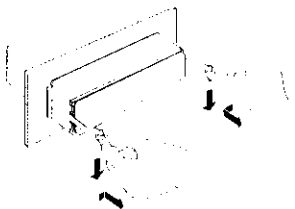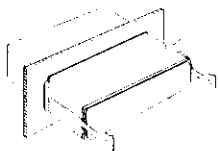
Accessory 5

Catch facing up

4 Lower the removal tool toward the bottom, and pull out the unit halfway while pressing towards the inside.
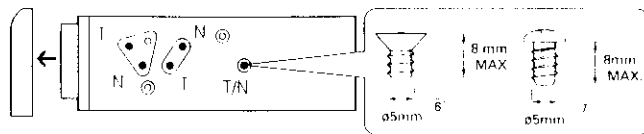
⚠CAUTION

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.

■ 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 bracket and secure the unit with the accessory screws.

T: Toyota cars
N: Nissan cars

8 mm MAX
ø5mm 6

8mm MAX
ø5mm 7

Accessory 6 ...for Nissan car
Accessory 7 ...for Toyota car

⚠CAUTION

- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.
- Damage may occur if a screwdriver or similar tool is used with excessive force during the installations.

■ 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 × 16mm) in the hole shown below.

Accessory 8

⚠CAUTION

Never insert the phillips pan head screw (ø4 × 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.

Troubleshooting Guide

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

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

Disc Changer

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

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

E-01   No disc magazine has been loaded in the changer. The disc magazine is not completely loaded.
    ⇨ Load the disc magazine properly

E-02   No disc has been loaded in the disc magazine.
    ⇨ Load a disc into the disc magazine

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

E-10   Nothing has been recorded on the MD
    ⇨ The next MD will automatically be played.

E-11   No tracks are recorded on the MD, although it has a title.
    ⇨ The next MD will automatically be played

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English

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

E-0d | 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.

Specifications

Specifications subject to change without notice.

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

AM tuner section
Frequency range (10 kHz space) ....530 kHz   1700 kHz
Usable sensitivity ....28 dB (25 µV)

Cassette player section
Tape speed ....4 76 cm/sec.
Wow & Flutter (WRMS) ....0.12 %
Frequency response (120 µs) ....30 Hz – 14 kHz (±3 dB)
Separation (1 kHz) ....43 dB
Signal to Noise ratio ....54 dB

Audio section
Maximum output power
(KRC-S300/S200) ....25 W × 4
(KRC-S100) ....20 W × 4
Full bandwidth power (at less than 1% THD)
(KRC-S300/S200) ....15 W × 4
(KRC-S100) ....13 W × 4
Tone action
Bass: ....100 Hz ±10 dB
Treble: ....10 kHz ±10 dB
Preout level / Load ....1800 mV / 10 kΩ
Preout Impedance ....≤ 600 Ω

General
Operating voltage ....14 4 V (11 – 16 V allowable)
Current consumption
(KRC-S300/S200) ....6 5 A at Rated power
(KRC S100) ....6.0 A at Rated power
Installation size (W × H × D) ....182 × 53 × 154 mm
7 3/16 × 2-1/16 × 6-1/16
Weight ....1.4 kg
3.1 LB