

# KENWOOD

CASSETTE-RECEIVER

# KRC-440 KRC-340

---

## INSTRUCTION MANUAL

KENWOOD CORPORATION

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

### **For your records**

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

Model KRC-440/340 Serial number \_\_\_\_\_

# SAFETY PRECAUTIONS

---

## **▲ WARNING**

**Observe the following instructions to prevent fires and personal injury.**

- Press in the unit until it is locked in position in the detachable case. This prevents it from being dislodged in the event of an accident, which can lead to further personal injury.
- When the Power supply lead, Memory backup lead or Ground lead are extended, use a 0.75 mm<sup>2</sup> (AWG 18) or larger automotive grade cable which will withstand friction and heat to safe guard against fires occurring as a result of short-circuiting.
- Make sure that metal objects, particularly needles or coins do not get into the unit to prevent short-circuiting and fires.
- If smoke comes out of the unit or a strange smell is present, disconnect the unit immediately and consult your KENWOOD dealer. Continued use under these circumstances could cause a fire as well as damage the unit permanently.

## **▲ CAUTION**

**Heed the following instruction to keep the unit in proper working order.**

- The unit should be connected to a 12 V DC power supply with a minus ground connection.
- Do not open enclosures, such as the front panel, top or bottom covers.
- Do not place the unit, where it will be exposed to direct sunlight or near heating devices.
- Do not expose the unit to water.
- Do not place the unit in areas of excessive dust, high humidity or on unstable surfaces.

## **NOTE**

- If you have difficulty in installing the set in your car, please contact your KENWOOD dealer.

## **Notes on handling tape**

- Before loading a cassette, check the tape for slack. If there is slack tape, remove it using a pencil to turn one of the spools in the cassette shell. Playing a slack tape in the deck can cause the tape to become wound around the pinch roller. This is just one of many problems that can result.
- Do not expose a cassette tape to direct sunlight. Leaving a cassette tape in a place where the temperature and humidity are high can deform the cassette shell and the tape itself. Do not use such tapes in your unit as it may not be possible to eject them.
- A 120-minute tape is very thin and its use should be avoided as it can easily become twisted around the pinch roller.

## **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 can lose the authority to operate this equipment if an unauthorized changes or modification are made.

# CARE AND MAINTENANCE

## Cleaning

1. Turn the power off, before cleaning the unit.
2. Wipe the front panel and other exterior surfaces of the unit with a soft dry cloth or a soft cloth lightly moistened with a neutral detergent.

### **▲ CAUTION**

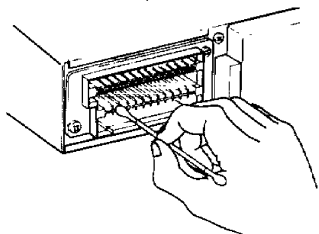
- Do not use abrasive pads, thinner or benzene (or other volatile solvents) to clean the unit as this may remove indicator characters.

## Head cleaning

Magnetic particles from the tape adhere to the head surface after a long period of use, resulting in noise and poor quality sound. Clean the head with a cleaning tape available at your KENWOOD dealer, following the directions in the head cleaner.

## Rear connector cleaning

The connection at the rear sometimes will require cleaning. Periodically wipe the connector with a cloth moistened with alcohol as shown below.



## Memory backup battery

This unit has a built-in backup battery to store the memory contents. The backup battery service life is about 7 years in normal use. (But it will be shorter than 7 years according to the operating condition.)

If the backup battery run down, please contact your KENWOOD dealer or authorized service center. If the guarantee period is over, we replace it with charge.

# TABLE OF CONTENTS

---

	Page
■ <b>Introduction</b>	
SPECIAL FEATURES.....	5
■ <b>Your new Cassette-receiver</b>	
POWER, VOLUME AND TONE .....	6
SEEK TUNING.....	7
MANUAL TUNING .....	8
TAPE PLAYBACK.....	9
METAL TAPE AND DOLBY NR.....	10
■ <b>Special Tuner features</b>	
PRESET STATION TUNING.....	11
AUTO MEMORY .....	12
■ <b>Special Tape deck features</b>	
TAPE ADVANCE.....	13
TUNER CALL .....	14
■ <b>Useful features</b>	
SELECTABLE ILLUMINATION.....	15
INSERTION/REMOVAL OF UNIT.....	16
CHANNEL SPACE SELECTION .....	17
■ <b>Installation</b>	
ACCESSORIES AND PROCEDURE.....	18
CONNECTIONS (KRC-440) .....	19
CONNECTIONS (KRC-340) .....	20
INSTALLATION .....	21
■ <b>TROUBLESHOOTING GUIDE</b> .....	22
■ <b>SPECIFICATIONS</b> .....	23

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

“DOLBY” and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

## ■ Tuner section

- **Seek tuning (P. 7)**  
Automatically locates and receives stations.
- **Preset station tuning (P. 11)**  
Registers the frequency of your favorite stations in memory to allow one-touch tuning.
- **Auto memory (P. 12)**  
Automatically stores the frequency of a station that provides the best reception quality in memory. Once a station is stored, it can be accessed through preset station tuning.

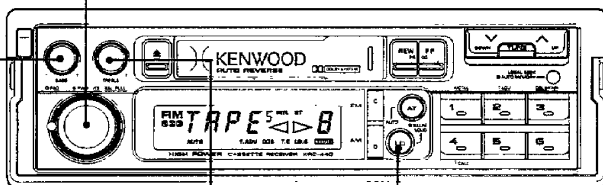
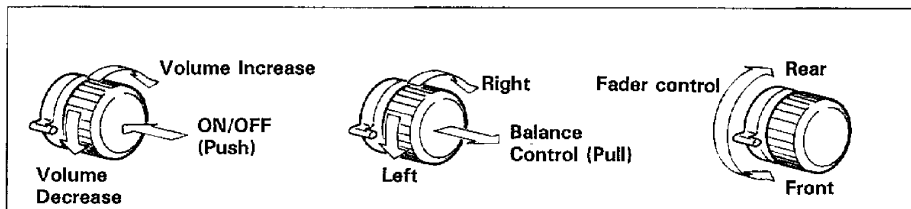
## ■ Tape deck section

- **Tape advance (P. 13)**  
Allows you to go to the beginning of the track you are listening to or to search the next track.
- **Tuner call (P. 14)**  
Allows you to listen to the tuner during tape rewind or fast forward.

## ■ Useful features

- **Selectable illumination (P. 15/KRC-440 only)**  
The color of illumination can be switched between green and orange.
- **Theft prevention chassis (P. 16)**  
When you leave the car, you can easily take the unit with you. This helps you to prevent theft.
- **Channel space selection (P. 17)**  
Allows you to switch the channel space between FM: 200 kHz/AM: 10 kHz and FM: 50 kHz/AM: 9 kHz.

# POWER, VOLUME AND TONE



## BASS CONTROL

Decrease



Increase

## TREBLE CONTROL

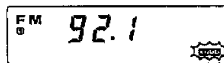
Decrease



Increase

## LOUDNESS SWITCH

When listening at low volume levels, tapping this switch will activate the loudness circuit which will compensate for the human ear's lack of sensitivity to bass at low levels.



ON

## NOTE

- Turning the power ON automatically turns this unit to the same mode before turning OFF the power.
- Perform the following operation with the power ON.

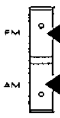
# SEEK TUNING

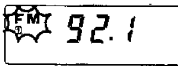
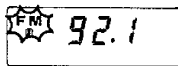
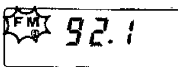
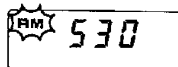
**1**

Select the desired Band.

FM ← Press FM1, FM2 or FM3

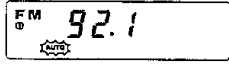
AM ← Press AM



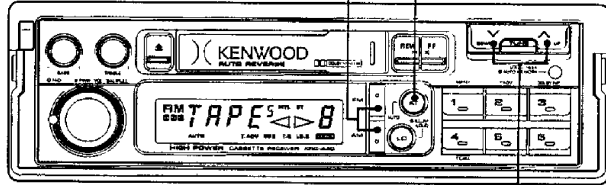
 FM1	 FM2
 FM3	 AM

**2**

Turn the Auto switch ON.




ON

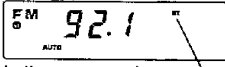


**3**

Press the Seek switch.  
(Seek starts and receives a broadcast station.)



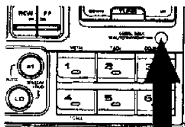
Down Seek    Up Seek



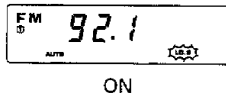
Indicates reception frequency.

Lit when stereo broadcast is received.

## <Local tuning>



Tap

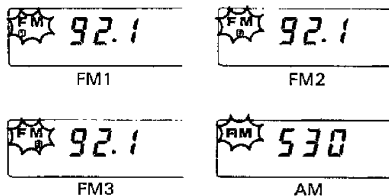
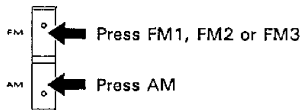


- If the Local seek switch is turned ON during SEEK TUNING and AUTO MEMORY, it will stop at stations only with satisfactory reception conditions.

# MANUAL TUNING

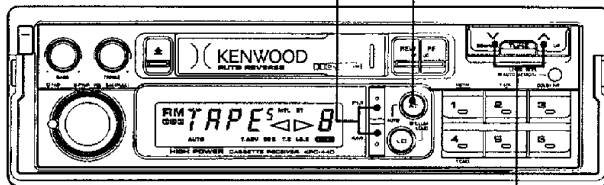
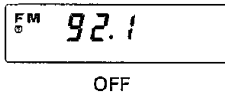
1

Select the desired Band.



2

Turn the Auto switch OFF.



3

Press to select the desired frequency.

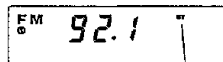


For lower frequencies      For higher frequencies

(Continued pressing will change it continuously.)

4

Indicates the frequency being received.



Indicates reception frequency

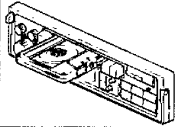
Lit when stereo broadcast is received.



# TAPE PLAYBACK

## TAPE PLAYBACK

Insert the cassette tape with the exposed tape facing to the right. (Playback starts.)



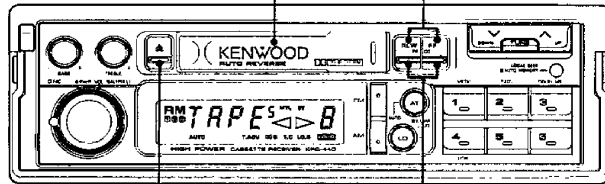
**TAPE** ▶

(During playback, ▶ will be indicated.)

## FAST FORWARD/REWIND

Operation	Press
Fast forward	FF
Rewind	REW

To release, softly press the reverse switch.



## STOP PLAYBACK

Press the Eject switch. (The cassette tape will come out.)

## PROGRAM

When you wish to listen to the reverse side, press these at the same time. (The reverse side will be played back.)

### <Playback side>

When inserted with the side A up.

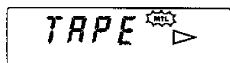
Indicator	Playback side
▶	Side A
◀	Side B

This will be reversed when inserted with the side B up.

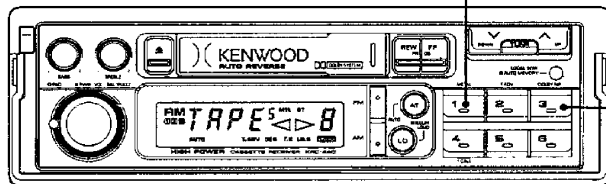
# METAL TAPE AND DOLBY NR

## METAL TAPE

In tape play mode, press Metal switch to play back a metal or chrome tape.



ON  
(Metal/Chrome tape position)



## ■ Functions of the KRC-440

### DOLBY B NR

In tape play mode, press Dolby B NR switch when playing back a tape recorded with Dolby B NR system.



ON

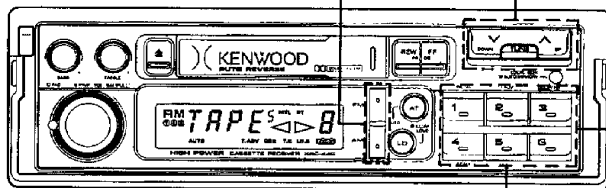
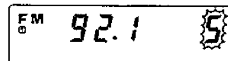
# PRESET STATION TUNING

**1**

Selects the band and station you wish to preset.

**2**

Press the Preset station switch you wish to be kept preset for more than 2 seconds.  
(When it is preset, the number of switch pressed will be indicated.)

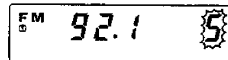


**3**

By repeating operation of 1 - 2 above, one station can be memorized in one switch each at FM1, FM2, FM3 and AM.

**4**

If tapped, the preset station can be called out.  
(The number of switch pressed will be indicated.)



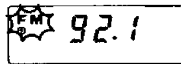
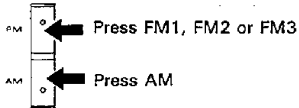
## NOTE

- If preset is to be made anew on the switch already preset, what was preset before will be replaced with what is to be preset.

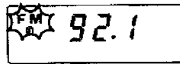
# AUTO MEMORY

1

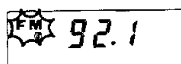
Select the desired Band.



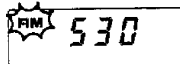
FM1



FM2



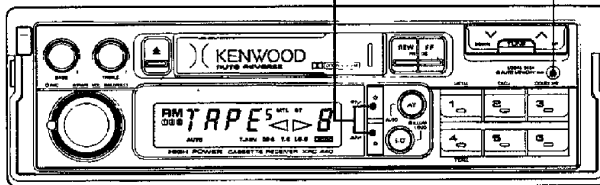
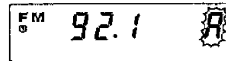
FM3



AM

2

Press the Auto memory switch for more than 2 seconds.  
(The "A" indicator lights.)



3

The selected band is automatically scanned and 6 stations are memorized. When 6 stations are memorized, the AUTO MEMORY function is automatically released.

4

The station last stored in memory is received.

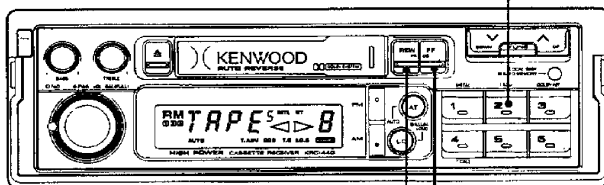
# TAPE ADVANCE

**1**

Press the Tape advance switch.  
(Tape advance indicator light up.)



ON



**2 To return to the beginning of current track**

Press the REW switch.  
(Rewind starts and it comes to play back at the beginning of the music you are now listening to.)

**2 To go to the next track**

Press the FF switch.  
(Fast forward starts and it comes to play back at the beginning of the next music.)

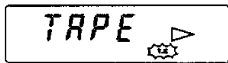
## NOTE

- Please note that in case of the following tapes, sometimes the TAPE ADVANCE does not function properly.
  - When an interval between the music is less than 5 seconds.
  - When a recorded portion of the low sound volume continues for more than 5 seconds.

# TUNER CALL

**1**

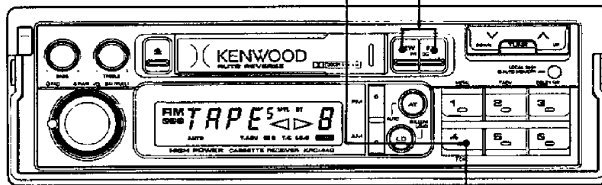
Press the Tuner call switch.  
(Tuner call indicator lights up.)



ON

**2**

It will function as a tuner automatically during fast forward and rewind.



**TO RELEASE**

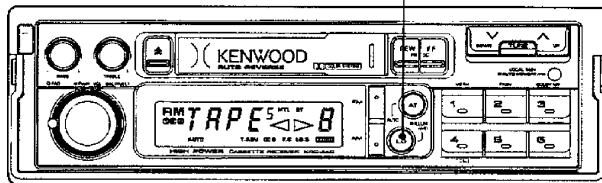
Press the Tuner call switch again.

# SELECTABLE ILLUMINATION

## ■ Function of the KRC-440

- Illuminations can be changed to fit the type of car or to suit your own taste.

Every time the Illumination switch is pressed for more than 1 second, it will switch over between the colors of green and orange.

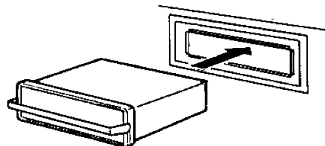


# INSERTION/REMOVAL OF UNIT

## ■ Insert the unit

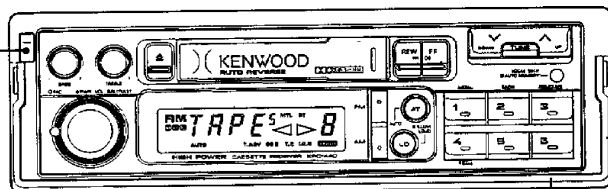
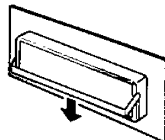
1

Insert the unit into the detachable case.



2

Lower the handle down to the bottom.



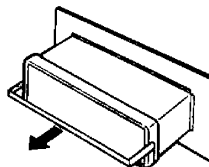
## ■ Remove the unit

1

Press the T.P.C. button.  
Lift the handle.  
(The handle lock is released.)

2

Hold the handle and pull it out.



## ▲ CAUTION

- Be sure to eject the cassette tape before removing the unit.



# CHANNEL SPACE SELECTION

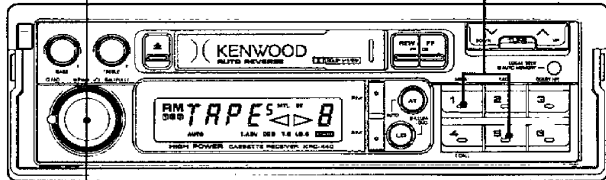
- The KRC-440/KRC-340 has a channel space select function. Two spacing frequencies are available for both FM and AM, 200 kHz or 50 kHz for FM, and 10 kHz or 9 kHz for AM.

**1**

Turn the power OFF.

**2**

Keep on pressing the Preset station switch of "1" and "5"



**3**

Turn ON the power while engaged in the operation of 2. (Channel space will turn to 50 kHz for FM and 9 kHz for AM.)

**4**

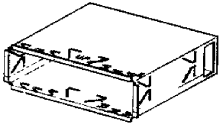
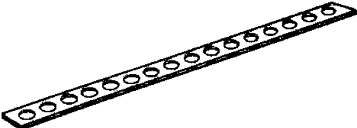


To bring it back the home position, carry out operations of 1-3 again. (Channel space returns to 200 kHz for FM and 10 kHz for AM.)

## NOTE

- When the channel space is changed, the memorized contents are erased.
- The channel space selection is not used in United States or Canada.

# ACCESSORIES AND PROCEDURE

## ■ ACCESSORIES

Part name	External View	Number of units
Detachable case		1
Metal mounting strap		1
Hex. bolt (M5 × 20)		1
Hex. nut (M5)		2

## ■ PROCEDURE

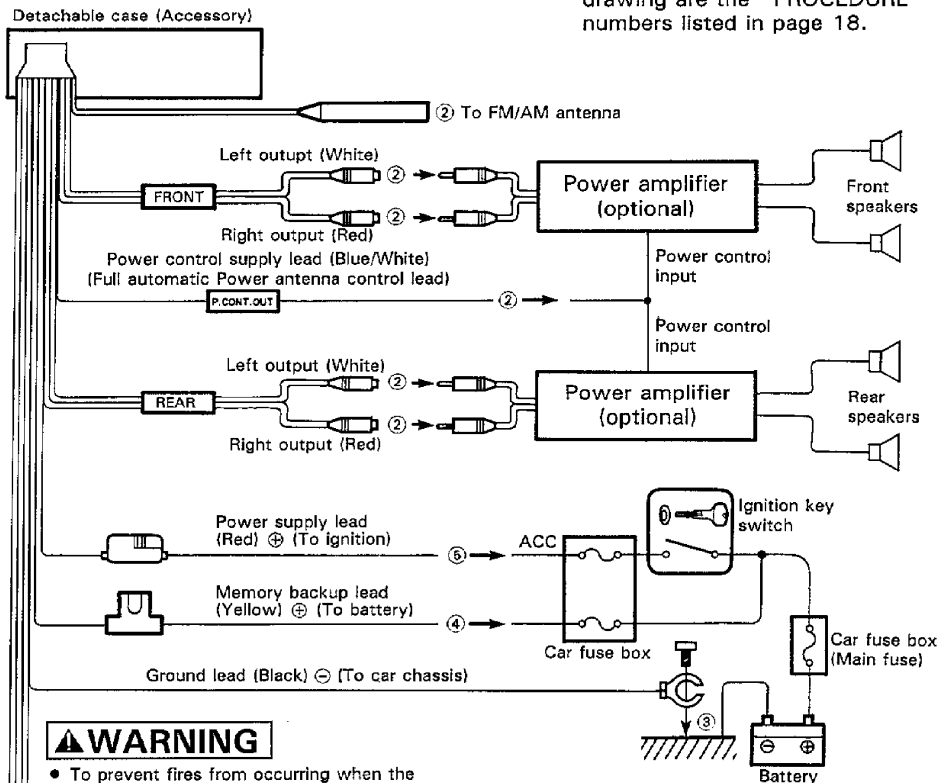
- ① Before installation and wiring, remove the ⊖ terminal of the battery to prevent short-circuiting.
- ② Connect the input and output cords of the system. (↪ P. 19/20)
- ③ Connect the Ground lead (Black) to the metal chassis of the car. (↪ P. 19/20)
- ④ Connect the Memory backup lead (Yellow). (↪ P. 19/20)
- ⑤ Connect the Power supply lead (Red). (↪ P. 19/20)
- ⑥ Install the Detachable case. (↪ P. 21)
- ⑦ Connect the negative ⊖ terminal of the disconnected battery.
- ⑧ Place the unit in the Detachable case. (↪ P. 16)

## ▲ CAUTION

- A short-circuit may be the cause of blown fuse. A short-circuit is a serious problem that can lead to a fire. Check the wiring and rewire if any wires are short-circuited. After this (or if no short-circuits are found), replace the fuse with one having the same capacity (see indication on fuse box).
- Make sure that unconnected wires and connectors are not in contact with the live chassis (ground) of the car to prevent noise and current from entering the system which can cause it to malfunction or damage the unit. For the same reason, caps on connectors that are not used should not be removed.
- This product is equipped with a BTL (Balanced Transformer Less) system to provide more power. In a BTL system, different speaker terminals must not be connected or shared as this will cause distortion or damage to the speakers. The output terminals of two or more speakers must under no circumstances be joined or connected to the chassis (ground) of the car.

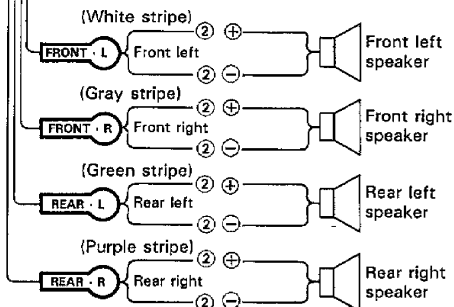
# CONNECTIONS (KRC-440)

\* The circled numbers in the drawing are the "PROCEDURE" numbers listed in page 18.



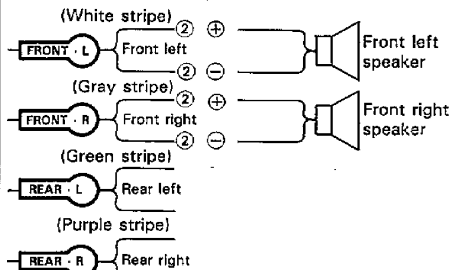
## ▲ WARNING

- To prevent fires from occurring when the Power supply lead (Red) and Memory backup lead (Yellow) are short-circuited by accidentally coming into contact with the chassis (ground), connect the power supply after fuse box connections have been made.



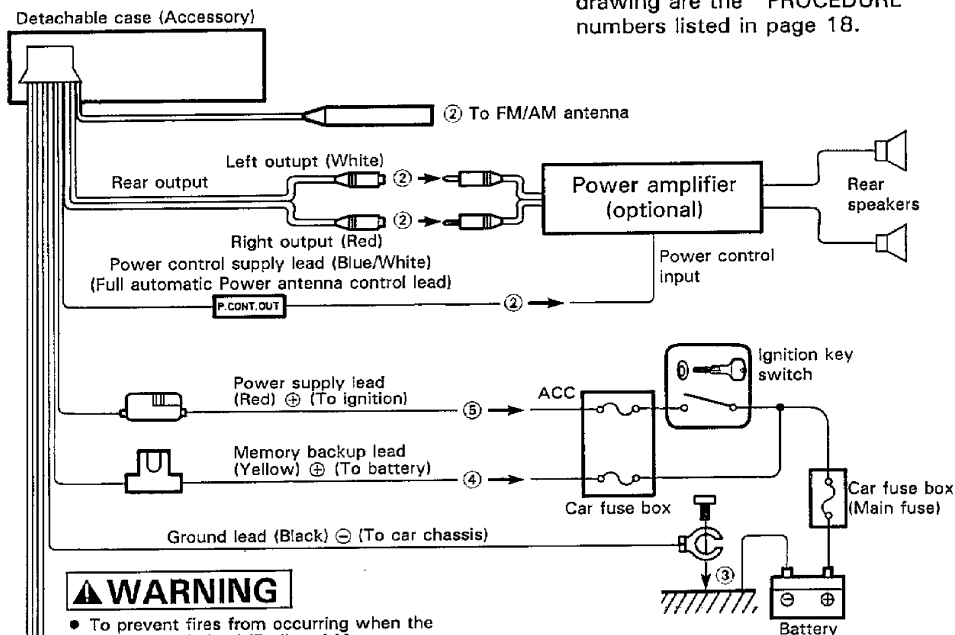
## ▲ CAUTION

- When two speakers are connected to the system, connect them as shown below. Any other kind of connection will cause sound distortion and damage to the speakers.



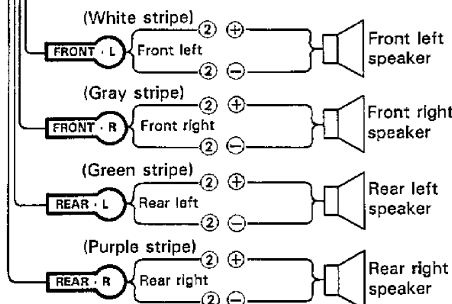
# CONNECTIONS (KRC-340)

\* The circled numbers in the drawing are the "PROCEDURE" numbers listed in page 18.



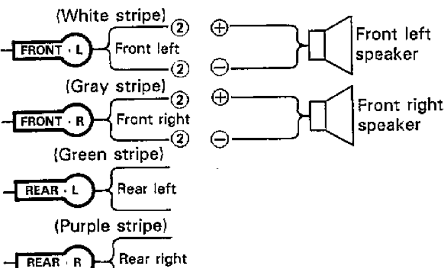
## ▲ WARNING

- To prevent fires from occurring when the Power supply lead (Red) and Memory backup lead (Yellow) are short-circuited by accidentally coming into contact with the chassis (ground), connect the power supply after fuse box connections have been made.

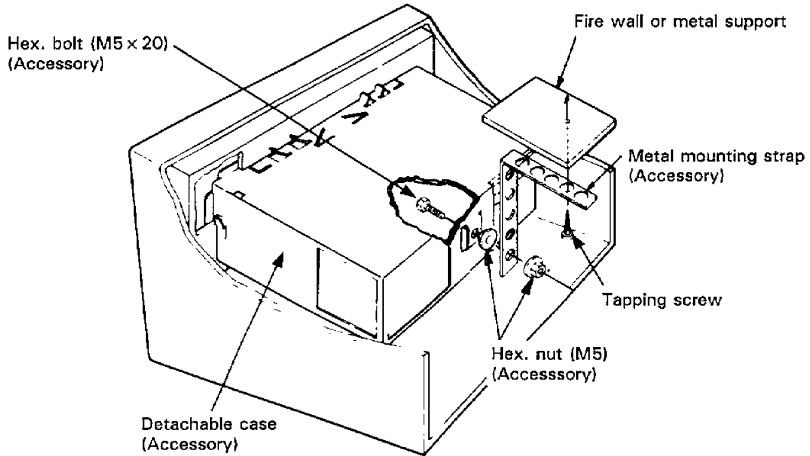


## ▲ CAUTION

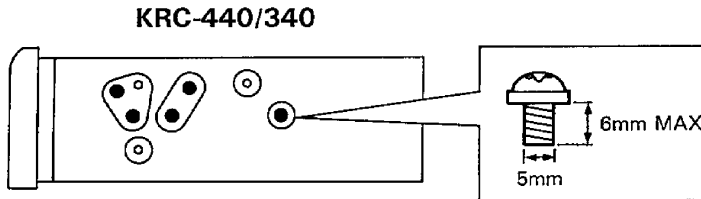
- When two speakers are connected to the system, connect them as shown below. Any other kind of connection will cause sound distortion and damage to the speakers.



- ⑥ Insert the Detachable case into the console and clamp with the claws. If the detachable case cannot be inserted, cut off the console with a file.



- To install in the Japanese car, fix using the 2 of the holes indicated with ● with TP screw (M5).



## NOTE

- If an "ELECTRONIC CHASSIS LOCK" (optional) is to be used with this unit, then, buy a "CK-50A".

# TROUBLESHOOTING GUIDE

What often appears to be a malfunction is often due to user error in operation or connection. When trouble occurs with your unit, please check the following before calling for service.

Symptom	Cause	Remedy
No sound one channel	The balance/fader control is extremely rotated to one side.	Adjust the balance/fader control.
Poor reception	The antenna is not extended.	Extend the antenna.
Tonal quality is inferior.	Head is stained.	Carry out head cleaning.
Tape creaks.		

# SPECIFICATIONS

Specifications subject to change without notice.

## FM Tuner Section

Frequency Range (200 kHz space).....	87.9 MHz ~ 107.9 MHz
(50 kHz space) .....	87.5 MHz ~ 108.0 MHz
Usable Sensitivity .....	12.0 dBf (1.1 $\mu$ V/75 ohms)
50 dB Quieting Sensitivity .....	15.2 dBf (1.6 $\mu$ V/75 ohms)
Frequency Response ( $\pm 3$ dB) .....	30 Hz ~ 15 kHz
Signal to Noise Ratio .....	73 dB
Selectivity .....	100 dB
Capture Ratio .....	1.5 dB
Image Response Ratio.....	70 dB
IF Response Ratio.....	120 dB
Stereo Separation (1 kHz) .....	40 dB

## AM Tuner Section

Frequency Range (10 kHz space).....	530 kHz ~ 1,700 kHz
(9 kHz space).....	531 kHz ~ 1,611 kHz
Usable Sensitivity .....	28 dB (30 $\mu$ V)

## Cassette Deck Section

Tape Speed.....	4.76 cm/sec
Wow & Flutter (WRMS).....	0.12% (WRMS)
Fast Winding Time (C-60) .....	100 sec
Frequency Response (120 $\mu$ s).....	30 Hz ~ 14 kHz ( $\pm 3$ dB)
(70 $\mu$ s).....	30 Hz ~ 16 kHz ( $\pm 3$ dB)
Stereo Separation (1 kHz) .....	43 dB
Signal to Noise Ratio .....	54 dB
(Dolby-B NR ON) (KRC-440 only).....	63 dB

## Audio Section

Maximum Output Power.....	25 W $\times$ 2
Output Power (10% THD, 1 kHz, 4 ohms) .....	20 W $\times$ 2
(1% THD, 30 Hz-20 kHz, 4 ohms) .....	15 W $\times$ 2
Tone Action .....	Bass: 100 Hz $\pm$ 10 dB
	Treble: 10 kHz $\pm$ 10 dB
Preout level/load .....	1000 mV (MAX.)/10 kohms

## General

Operating Voltage .....	14.4 V (11 ~ 16 V allowable)
Current Consumption.....	6 A at Rated Power
Installation size (W $\times$ H $\times$ D).....	182 $\times$ 52 $\times$ 159 mm
	(7-3/16 $\times$ 2-1/16 $\times$ 6-1/4 in.)
[KRC-440]	
Weight .....	2.0 kg (4.4 lb)
[KRC-340]	
Weight .....	1.9 kg (4.2 lb)

KENWOOD