KENWOOD

GRAPHIC EQUALIZER

1070KE

INSTRUCTION MANUAL

KENWOOD CORPORATION

MC



Before applying power 🛕 Caution : Read this section carefully to ensure safe operation.

Units are designed for operation as follows.

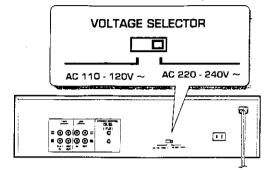
*AC voltage selection

The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.



Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.

AC voltage selector switch



Move switch lever to match your line voltage with a small screwdriver or other pointed tool.

Safety precautions

riangle Caution : Read this section carefully to ensure safe operation.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.







CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

Special feature

Large FL display, 14-band equalizer and 27-spectrum analyzer

MANUAL/REFERENCE modes

PARAMETRIC/GRAPHIC modes

GENRE mode

The large FL display, 14-band equalizer and 27-spectrum analyzer features high visibility of information and make it possible to set EQ (equalizer) curves with high accuracy.

ACTION OF THE PROPERTY OF THE

MANUAL: Five preset patterns have been factory-preset for this mode, too. In

this mode, it is also possible to preset (assign) equalizer patterns created by the user in place of the factory presets.

REFERENCE: Five exemplary patterns have been preset at the factory. —13

PARAMETRIC: Equalizer curves can be created by setting up to 3 center frequencies and the equalizing levels for them.

GRAPHIC: The equalizer curve can be adjusted in a detailed way for every

The equalizer curve can be adjusted in a detailed way for every frequency range. It is also possible to fine-adjust a curve which has been created in the PARAMETRIC mode. The GRAPHIC mode is to be used when detailed adjustment of acoustic compensation is required.

A total of 30 playback patterns have been factory-preset by combining five recommended equalizer patterns with six music genres, so that any of them can be selected by actually comparing them. Similarly, selection from 30 types of recording patterns for playback on car stereo or from 30 types of recording patterns for playback on headphone stereo is also available. Select the optimum equalizer pattern according to the music genre and purpose of use of the pattern.

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Caution : Read the pages marked igwedge carefully to ensure safe operation.

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Accessories

Check that the following accessories are present.

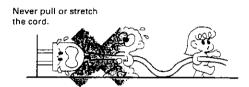
Audio cord (2)



System control cord (1)



- Please read all of the safety and operating instructions before operating this appliance. Adhere to all warnings on the appliance and in the instruction manual. Follow all the safety and operating instructions. These safety and operating instructions should be retained for future reference.
- Power sources The appliance should be connected to a
 power supply only of the type described in the instruction
 manual or as marked on the appliance. If you are not sure of
 the type of power supply to your home, consult your appliance
 dealer or local power company. For appliances intended to
 operate from battery power, or other sources, refer to the
 instruction manual.
- 2. Power-cord protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.



- 3. CAUTION ~ Polarization This appliance may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 4. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the appliance and to protect it from overheating, and these openings must not be blocked or covered. The appliance should be situated so that its location or position does not interfere with its proper ventilation.

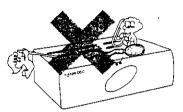
To maintain good ventilation, do not put records or a table-cloth on the appliance. Place the appliance at least 10 cm away from the walls

Do not use the appliance on a bed, sofa, rug or similar surface that may block the ventilation openings. This appliance should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

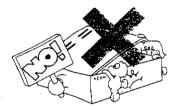


 Water and moisture – The appliance should not be used near water-for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

- Temperature The appliance may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).
- Heat The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- 8. Electric shock Care should be taken so that objects do not fall and liquid is not spilled into the enclosure through openings. If a metal objects, such as a hair pin or a needle, comes into contact with the inside of this appliance, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this appliance.



 Enclosure removal – Never remove the enclosure. If the internal parts are touched accidentally, a serious electric shock might occur.



- 10.Magnetic fields Keep the appliance away from sources of magnetic fields such as TV sets, speaker systems, radios, motorized toys or magnetized objects.
- 11.Cleaning Unplug this appliance from the wall outlet before cleaning. Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzine, etc. to clean the cabinet. Use a clean dry cloth.
- 12. Accessories Do not place this appliance on an unstable cart, stand, tripod, bracket, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the appliance. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



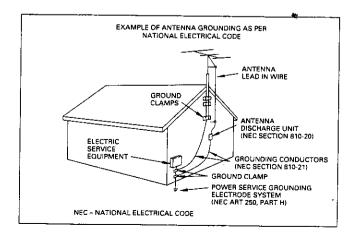
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- 13.Lightning For added protection for this appliance during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the appliance due to lightning and power-line surges.
- 14.Abnormal smell If an abnormal smell or smoke is detected, immediately turn the power OFF and unplug the appliance from the wall outlet. Contact your dealer or nearest service center.

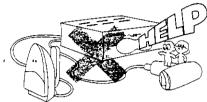
POWER OFF!



- **15.Damage requiring service** The appliance should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged.
 - **B.** Objects have fallen, or liquid has been spilled into the appliance.
 - C. The appliance has been exposed to rain or water.
 - **D.** The appliance does not appear to operate normally by following the instruction manual. Adjust only those controls that are covered by the instruction manual as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to its normal operation.
 - **E.** The appliance has been dropped, or the enclosure damaged.
 - F. The appliance exhibits a marked change in performance.
- **16.Servicing** The user should not attempt to service the appliance beyond that described in the instruction manual. All other servicing should be referred to qualified service personnel.
- 17. Outdoor antenna grounding If an outside antenna is connected to the appliance, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Article 810 of the National Electrical Code ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.



- 18. Power lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 19.AC outlets Do not connect other audio equipment with a power consumption larger than that specified to the AC outlet on the rear panel. Never connect other electrical appliances, such as an iron or toaster, to it to prevent fire or electric shock.



- 20. Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- **21. Attachment** Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.
- 22. Replacement parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 23. Safety check Upon completion of any service or repairs to this appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operating condition.



- 1. Item 3 is not required except for grounded or polarized equipment.
- Item 17 and 18 are not required except for units provided with antenna terminals.
- 3. Item 17 complies with UL in the U.S.A.

Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

Keep this manual handy for future reference.

Safety Precautions

Beware of condensation

When water vapor comes into contact with the surface of cold material, water drops are produced.

If condensation occurs, correct operation may not be possible, or the unit may not function correctly.

This is not a malfunction, however, the unit should be dried. (To do this, turn the POWER switch ON and leave the unit as it is for several hours.)

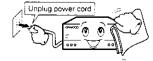
Be especially careful in the following conditions:

- •When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- •When a heater starts operating.
- •When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
- •When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.

Maintenance

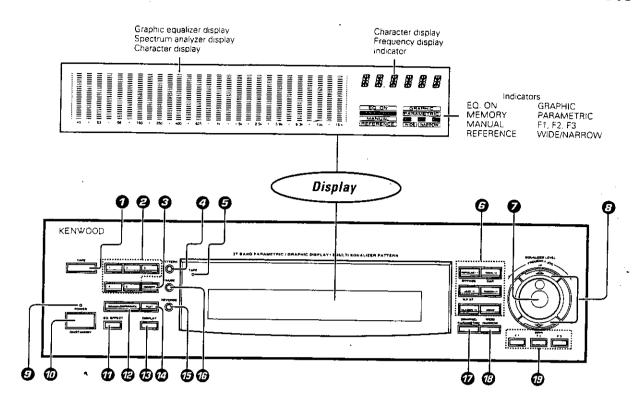
Cleaning

Unplug this appliance from the wall outlet before cleaning. Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzine, etc. to clean the cabinet. Use a clean dry cloth.



Caution against contact revitalizer

Do not use contact cleaners because it could cause a malfunction. Be specially careful against contact cleaners containing oil, for they may deform the plastic componente.



- **O** TAPE key -21 - 22 Use when playing back or recording a tape.
- Preset keys (1 to 5) Typical equalizer patterns have been preset under these keys so that you can select any one of them easily.
- **9** MEMORY key - 18 Press this key when registering a usercreated equalizer pattern.
- **O PATTERN key** -19 Press to enter or quit the genre mode.
- TAPE indicator -121 - 122Lights up when the TAPE key is pressed to ON.
- Genre kevs - 19 Press in the genre mode to select the desired music genres and their equalizer patterns.
- FREQUENCY JOG knob
 - -16-12 Rotate the control knob to adjust the frequency band (range).

- **② EQUALIZER LEVEL UP (△)**
 - /DOWN (♥) keys - 20 - 20 Press the up (\triangle) or down (∇) key to increase or decrease the equalizer level.
- Standby indicator Lights up to indicate that a small amount of current flows in the unit.
- ON/STANDBY key - 10 Switches the power ON/OFF
- @ EQ. EFFECT key - 12 - 13 Press to turn the equalizer mode ON and OFF
- @ MANUAL/REFERENCE key
 - 12 13 Press to switch the manual and reference functions alternately.
- **19** DISPLAY key Press to switch the display mode or to select the demonstration mode.
- @ FLAT kev - 12 Press to make an equalizer curve flat.

- @ REVERSE key -[20] Press to reverse an equalizer curve.
- @ PAUSE key - 🕮 Press to let an equalizer curve pause temporarily.
- **O GRAPHIC/PARAMETRIC key**
 - GRAPHIC: Select this mode when adjusting an equalizer curve.
 - PARAMETRIC: Select this mode when creating an equalizer curve according to center frequencies.
- WIDE/NARROW key Each press of the key switches the curve slope alternately between WIDE and NARROW.
- Frequency keys (F1, F2, F3) Each key can store a desired center frequency.

STANDBY indicator

This unit is provided with the STANDBY indicator. White the STANDBY indicator is lit, a small amount of current is supplied to the internal circuitry of the unit in order to back up the memory. This status is referred to as the standby mode. When this unit is not to be used for a long period of time, unplug the power cord from the power outlet.

System connections

Make connection as shown below. When connecting the related system components, refer also to the instruction manuals of the related components.

Caution: Do not plug in the power lead until all connections are completed.

Malfunction of microprocessor

If operation is not possible or erroneous display appears even though all connections have been made properly, reset the microprocessor referring to "In case of difficulty".

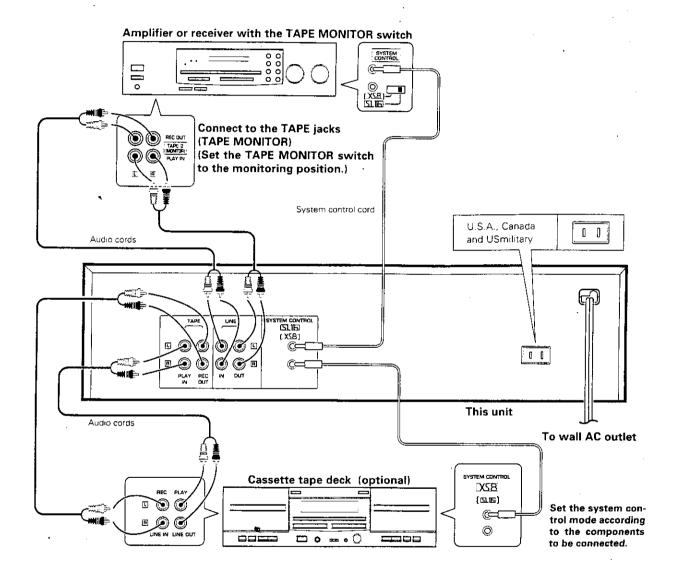
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(Except for U.S.A., Canada)

Caution regarding placement

To maintain proper ventilation, be sure to leave a space around the unit (from the largest outer dimensions including projections) equal to, or greater than, shown below.

Left and right panels: 10 cm, rear panel: 10 cm



•When connecting the audio cords (cords with pin plugs on each end), insert the white plugs into the [] (Left) jacks and red plugs into the 同 (Right) jacks.



- 1. Connect all cords firmly. If connections are loose there could be loss of sound or noise produced.
- When plugging and unplugging connection cords, be sure to first remove the power cord from the AC outlet. Plugging/unplugging connection cords without removal of the power cord can cause malfunctions or damage on the unit.
- 3. Do not connect up a power source which is larger than that indicated on the socket at the rear of the unit.

ABOUT THE SYSTEM CONTROL CONNECTIONS

Connecting system control cords after connecting a Kenwood audio component system lets you take advantage of convenient system control operations.

There are two Kenwoood system control modes. Make connections according to the groups of terminal symbols shown

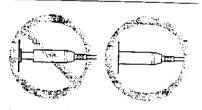
[XS8] Mode : lets you combine [XT, [XS, and [XS8] terminals

[SL16] Mode: for [SL16] terminals only

This unit is compatible with both [XS8] and [SL16] modes. It comes from the factory set to the [SL16] mode. To switch to the [XS8] mode, follow the instructions in "SWITCHING FROM [SL16] TO [XS8]" below.



- 1. [SL16] equipment cannot be combined with [XR], [XS], and [XS8] equipment for system operations. If your equipment consists of this kind of combination, please do not connect any system control cords. Even without system control cords, normal operations can be carried out without affecting performance.
- 2. If your amp or receiver does not have a system control terminal, do not connect any system control cords to the system control terminals on the other components.
- 3. Do not connect system control cords to any components other than those specified by Kenwood. It may cause a malfunction and damage your equipment.
- 4. Be sure the system control plugs are inserted all the way in to the system control terminals



ABOUT THE SYSTEM CONTROL OPERATIONS

Remote Control

The power of this unit can be turned ON/OFF from the system remote control unit provided with your amplifier or

(This operation is possible only when the MAIN POWER switch is set to ON and the ON/STANDBY key is set to ON or STANDBY. If your unit is provided only with the POWER key, it is possible only while the STANDBY indicator is

SWITCHING FROM [SL16] TO [XS8]

You can easily change the system control mode with the following operation. Do this operation after completing all connections.

Switching to [XS8]

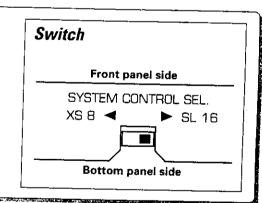
: Set the switch on the bottom side of the

unit to [XS8].

Switching back to [SL16]: Set the switch on the bottom side of the

unit to [SL16].

This operation will not affect items stored in the memory.



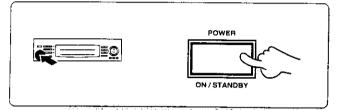




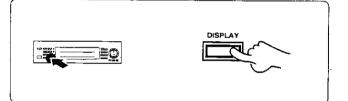
: Keys and control used in the operations described on this page.

Switching the display modes

1 Press the POWER key to turn the unit ON.



2 Select the desired display mode.



Each press switches the display modes as follows.

- 🗕 🧓 Graphic equalizer display mode
- Spectrum analyzer display mode
- ③ DEMO(Demonstration) mode

Graphic equalizer display mode

Shows how each frequency range is compensated.

The graphic equalizer display also appears for about 5 seconds, even while the unit is in the spectrum analyzer display mode, when one of the following operation is performed.

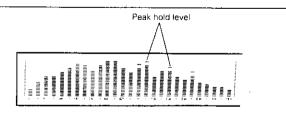
- 1. Switching power ON.
- 2. An operation key associated with an equalizer operation is pressed.



Spectrum analyzer display mode

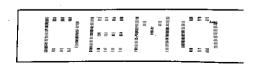
Displays the frequency distribution of the source being played to allow under standing at a glance.

The peak value of the varying level of each frequency range is held and displayed for about 0.5 second.

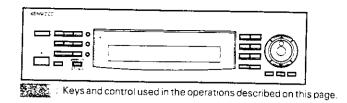


DEMO(Demonstration) mode

After "DEMO" is displayed, the demonstration of the graphic equalizer curves starts.

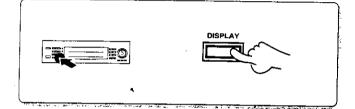


Demonstration of equalizer curves can be displayed to help the user understand the features of the equalizer better.



Demonstration method

- 7 Play a music source.
- **2** Select the "DEMO" mode.

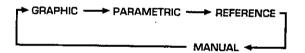


Each press switches the display modes as follows.

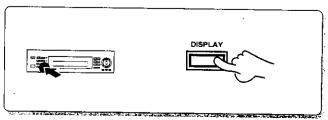
- 🗕 🛈 Graphic equalizer display mode
 - ② Spectrum analyzer display mode
- 3 **DEMO**(Demonstration) mode



Demonstration is performed repeatedly in the following order.

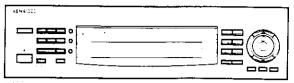


To stop demonstration



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Five preset patterns have been factory-preset for this mode, too. In this mode, it is also possible to preset (assign) 12 equalizer patterns created by the user in place of the factory

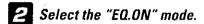


: Keys and control used in the operations described on this page

"EQ.ON" Lights up.

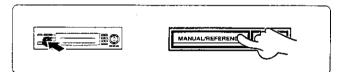
Operation of MANUAL feature



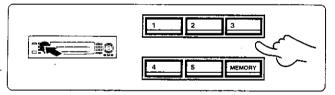




Set to "MANUAL".



Select an equalizer pattern.

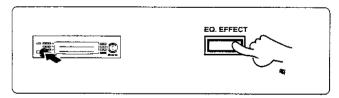


Select by pressing one of preset keys 1 to 5

Each press switches the display as follows.

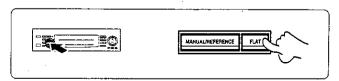
I MANUAL REFERENCE

To cancel the equalizer effect:

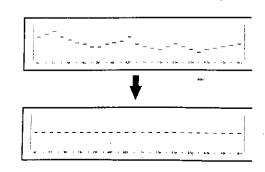


"FLAT" key

Pressing the FLAT key makes the displayed curve flat. This occurs in any mode.



•The pattern being displayed remains the same.



"EQ.QN" indicator goes off.



•The pattern being displayed remains the same.

: Keys and control used in the operations described on this page.

1 Play a music source.	•
2 Select the "EQ.ON" mode.	
EQ. EFFECT	"EQ.ON" Lights up.
Set to "REFERENCE".	
MANUALREFERENCE	Each press switches the display as follows. **REFERENCE** Lights to the display as follows.
Select an equalizer pattern.	REFERENCE
1 2 3 4 5 MEMORY	Select by pressing one of preset keys 1 to 5.
cancel the equalizer effect:	
EO REFEOT	"EQ.ON" indicator goes off.
EQ. EFFECT	recers.

Equalizer pattern list

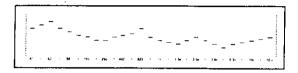
Preset equalizer pattern M1 to M5 (MANUAL)

Pattern can be created and preset by the user in this mode.

•When pattern M1, M2 or M3 is used, set the SURROUND key of the amplifier to ON.

M1: [Bass intensity]

For listening a bass sound effect without feeling of sharpness.



M2: [Vocal]

For listening vocal sound with enhanced expansion.



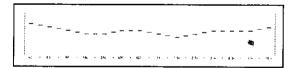
M3: [Percussion]

For listening percussion sound with expansion and powerfulness.



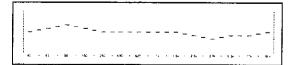
M4: [Car]

For recording tape with suitable tone to be played on car stereo.



M5: [Headphones]

For recording tape with suitable tone to be played on headphone



Preset equalizer pattern R1 to R5 (REFERENCE)

是是自己的主义,但是他们的自己的主义,但是他们的一个人,但是他们的一个人,但是他们的一个人,也不是他们的一个人,也是他们的一个人,也是他们的一个人,也是他们的一

R1: [Mild]

For listening a mild sound comfortable for ears, like back ground music.



R2: [Clear]

For listening a brilliant sound with attenuated low frequencies.



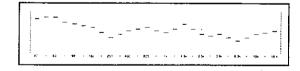
R3: [Heavy]

For listening music like rock and fusion with more powerful sound.



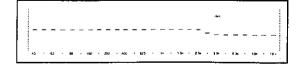
R4: [Scale]

For listening more exciting sound.



R5: [Noise reduction for recording]

Cut off stimulating medium and high frequencies and enables softsound recording.



Creation of desired equalizer patterns

Equalizer curves can be created by setting up to 3 center frequencies and the equalizing levels for them.

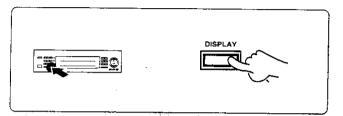
The inclination of each curve can be selected between WIDE (gentle slope) and NARROW (steep).



: Keys and control used in the operations described on this page

Operation in PARAMETRIC mode

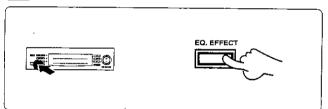
7 Select the "graphic equalizer display mode".



Each press switches the display modes as follows.

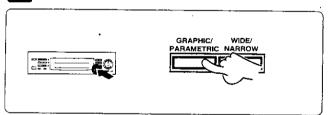
- Graphic equalizer display mode
 - Spectrum analyzer display mode
- **DEMO**(Demonstration) mode

Select the "EQ.ON" mode.



"EQ. ON" Lights up

Select the "PARAMETRIC" mode



Each press switches the display as follows.

: Mode for adjusting equalizer curves.

PARAMETRIC: Mode for creating a curve according

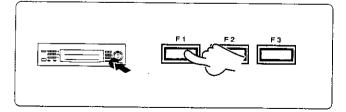
EQ. ON

to center frequencies.

"PARAMETRIC" Lights up

PARAMETRIC

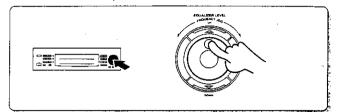
Select the key to store the center frequency.





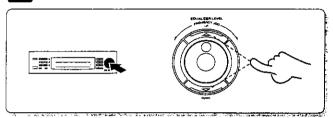
(Continued on next page)

5 Select the center frequency.



98HZ

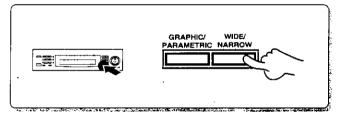
6 Adjust the level.





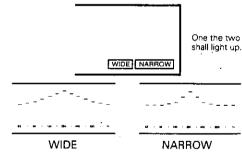
 ◆Pressing the FLAT key allows to start adjustment from the flat level position.

7 Select the inclination of the curve.



Each press switches the display as follows.

① WIDE : Curve with a gentle slope. ② NARROW: Curve with a sharp slope.



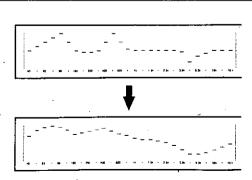
•One adjusted, the curve remains the same until next time it is pressed.

When adjustment of center frequencies F2 and/ or F3 is required:

Repeat steps 4 to 6 above for each center frequency.



When two curves F1 and F2 or three curves F1, F2 and F3 are set, the curve combining them will be displayed in a few seconds.



•For finer adjustment, perform the graphic mode operation described in the following page. — III

This mode allows to adjust the equalizer curve for each frequency band provided. The curve created in the parameter mode can be fine-adjusted in this mode.

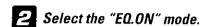
Operation in GRAPHIC mode

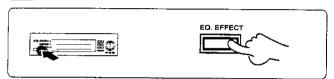
7 Select the "graphic equalizer display mode".

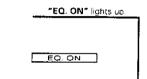


Each press switches the display modes as follows.

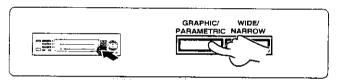
- 🛌 🤄 Graphic equalizer display mode
 - 3 Spectrum analyzer display mode
 - 3 DEMO(Demonstration) mode







3 Select the "GRAPHIC" mode.



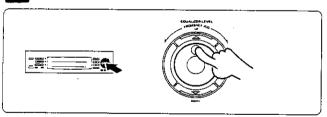
Each press switches the display as follows.

- → ① GRAPHIC : Mode for adjusting equalizer curves.
- PARAMETRIC: Mode for creating a curve according to center frequencies.



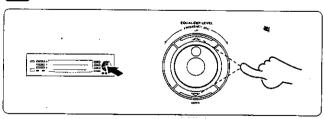
"GRAPHIC" lights up.

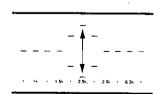
Select the frequency band to be adjusted.



2.5 K H Z

5 Adjust its level.





6 Fine adjustment of each frequency band



Repeat steps 4 and 5 above.



If the mode is switched from "GRAPHIC" to "PARAMETRIC", the equalizer pattern created in the GRAPHIC mode is cleared.

Registration of EQUALIZER pattern

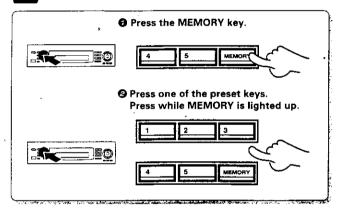


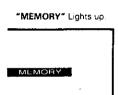
-15

See "Creation of desired equalizer patterns".

Any equalizer pattern can be preset if it is being displayed.

Preset the equalizer pattern.

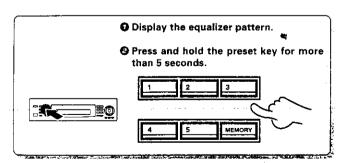




- Pattern is preset under the number of the numeric key pressed.
- Up to five patterns can be preset in the same manner.
- When a pattern has previously been preset under the numeric key pressed, the newly preset pattern replaces the previous pattern.

To cancel the registered pattern

The registered equalizer pattern can be canceled and returned to the original pattern stored under the preset key (one of the factory-registered patterns M1 to M5 $-\widehat{QQ}$).



1070KE [En]

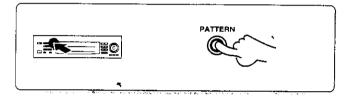
Through selections of the music genre, tone pattern and purpose of use in three steps, this feature allows to obtain the optimum playback pattern from the 90 equalizer patterns (6 genres \times 5 patterns \times 3 purposes of use=90).



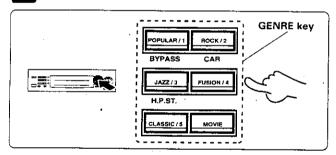
: Keys and control used in the operations described on this page.

Operation of GENRE feature

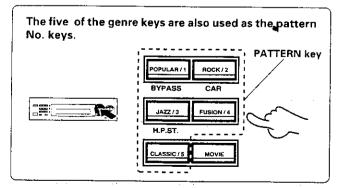
- 1 Play a music source.
- 2 Initiate the GENRE mode.



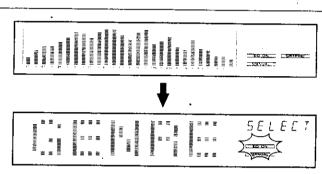
Select the genre of music.



4 Select the desired tone pattern.

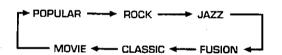


(Continued on next page)



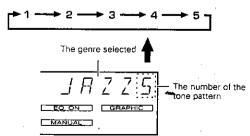
•The indicator "GENRE" is displayed and "EQ.ON" lights up.

Until you actually select the music genre, patterns of the genres are displayed in repeated cycles (7 seconds) and the tones heard also change accordingly.



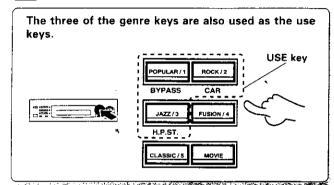
If the **PAUSE** key is pressed in step 3 or 4, the repetition of equalizer patterns stop so that you can check the tone of a specific pattern more in details. The repetitions resume when the **PAUSE** key is pressed again.

Until you actually select a tone pattern, the five patterns available with the genre selected in step 3 are displayed in repeated cycles and the tones head also change accordingly. Five of the genre keys are also used as pattern No.keys.

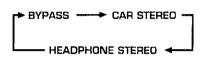


 After the tone pattern has been selected, characters "USE" appears on the display.

5 Select the purpose of use of the pattern.



The display until you select a tone pattern.



Major purposes of use provided by the USE keys.

When a car stereo or headphone stereo is used, the special curve for use in recording is combined with the displayed curve. For recording sound together with the equalizer effect applied to it, see "Recording sound with equalizer effect".

BYPASS key: For use in normal playback and recording.

CAR key : For use in recording of tapes to be played on car

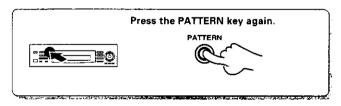
stereos.

H.P.ST. (Headphone stereo) key

: For use in recording of tapes to be played on

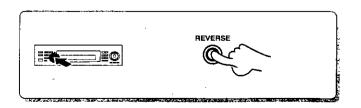
headphone stereo players.

To cancel GENRE mode.

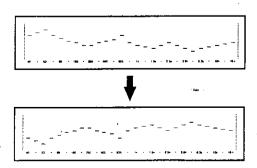


REVERSE key

Press the REVERSE key to reverse the equalizer curve.



Each press reverses the curve.



Use of equalizer effect with tape

1070KE (En)

21 .

Preparation

Make preparation for playback.

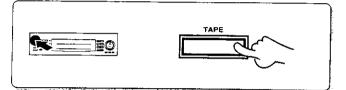
• For the preparation for playback, refer to the instruction manuals of the player component.

KENWOCC		

: Keys and control used in the operations described on this page.

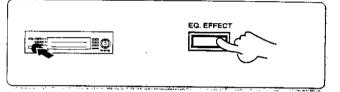
Applying equalizer effect to tape playback

7 Set the TAPE switch to ON.



Lights up.

2 Select the "EQ.ON" mode.



"EQ. ON" Lights up.

3 Create a desired equalizer pattern.

See pages - 12 to - 20



4 Play a tape.

To stop tape playback

Press the stop key of the cassette deck.



In addition to ordinary recording, special equalizer recording patterns (refer to page 14) can be used for effective playback on car stereo or headphone stereo.

Preparation

Make preparation for recording.

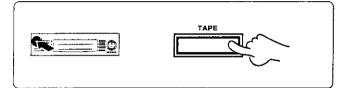
• For the preparation for recording, refer to the instruction manuals of the player compo-



Keys and control used in the operations described on this page.

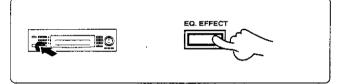
Tape recording of sound with equalizer effect

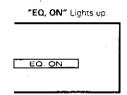
Set the TAPE switch to OFF.





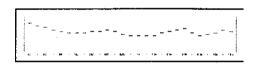
Select the "EQ.ON" mode.





Create a desired equalizer pattern.

See pages - 12 to - 20



- Play the source to be recorded.
- Start recording it onto tape.

To stop tape recording

Press the stop key of the cassette deck.

Functions of graphic equalizer

Compensation for the audio characteristics of the listening room

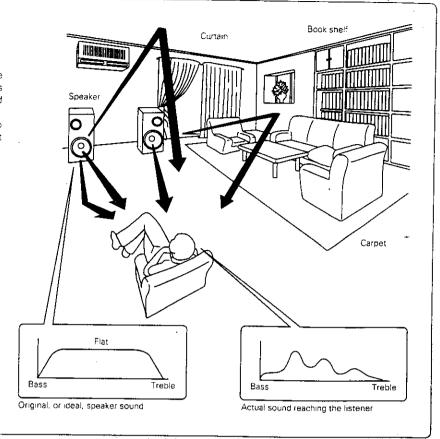
The listening room may contain several objects. Some of them reflect sound and some absorb sound, thus the sound reaching your ears is considerably affected by these objects.

In such cases, the graphic equalizer can be used to adjust the frequency response of the room for a flat response from low to high frequencies.

- Low frequencies are absorbed by peds, chairs, etc.
 High frequencies are absorbed by curtains, screens,
- The room structure can cause the low frequencies to be unclear, or the sound level to increase or decrease depending on the frequency.

Adjustment of sound to your individual taste

When the reproduced sound contains several musical instruments and voices, the graphic equalizer allows you to enhance or attenuate the sound of specific instruments or voices.



Sound equalization

Super bass range (40 Hz ~ 63 Hz)

When this control is moved up, the bass instrument (double bass, bass drums, or pipe organ, etc.) sound is increased.

When the super bass sound is boomy, move this control down.

Bass range (98 Hz ~ 160 Hz)

Usually, the listening room resonance frequency is in this range. To eliminate bass resonance, move this control down.

Mid-bass range (250 Hz ~ 400 Hz)

This range is the basis of music. Whether the sound is rich or not, depends on this range. When the playback sound is not so good, move this control up.

Mid range (625 Hz ~1 kHz)

When this control is moved up or down, the baritone or soprano voice is emphasized/de-emphasized. This range is related to the "presence" of music.

Mid-high range (1.5 kHz ~ 2.5 kHz)

This range is related to stimulus and metallic sound. When this range is well compensated, vivid sound can be obtained.

High range (3.9 kHz ~ 6.3 kHz)

This frequency range is related to the hardness of the sound. When this control is moved up, strings or brass instruments, such as flutes or piccolos, are emphasized. When the control is moved down, the sound will be more soothing.

Super high range (10 kHz ~ 16 kHz)

This frequency range is related to the details of the music. When this control is moved up, super high frequency instruments, such as triangles or cymbals, are emphasized, resulting in wide sound and echoes.

What appears to be a malfunction may not always be serious. If your unit should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or service representative.

Operation to reset

The microprocessor may fall into malfunction (impossibility to operate erroneous display, etc.) when the power cord is unplugged while power is ON or due to an external factor. In this case, execute the following procedure to reset the microprocessor and return it to normal condition.



While holding the MEMORY key depressed, unplug the power cord from the power outlet and plug it again.

 Please note that resetting the microprocessor clears the contents stored in, it returns the microprocessor to the condition when it left the factory.

Symptom		English and the second of the
Power fails to turn on.	•The power cord is plugged incompletely.	•Insert the power plug securely into the power outlet.
	•The power plug of this unit is plugged into the SWITCHED AC outlet on the rear panel of the receiver and the power of the receiver is OFF.	●Turn the power of the receiver ON.
	The system control cord is not connected.	•Connect the cord properly by referring to "System connections".
The equalizer effect cannot be obtained.	•The input and output connections are reversed.	●Connect the input and output correctly. — 3

[Audio block]	
Total harmonic distortion (at 1 kHz, Flat)0.005	%
Frequency response 10 Hz ~ 70 kHz, ± 3 d	
Signal to noise ratio (IHF '66) 108 d	íΕ
Graphic equalizer characteristics	
Adjustment center frequencies 40 Hz, 63 Hz, 98 H	2
160 Hz, 250 Hz, 400 Hz, 625 Hz, 1 kHz, 1.5 kHz, 2.5 kHz, 3	. 9
kHz, 6.3 kHz, 10 kHz, 16 kHz	
Equalizer characteristic variable range ± 12 d	В
Input impedance	
Line	Ω
Maximum output voltage (at 1% T.H.D.)	
Output Impedance	
Line	n

[General]	
<u>^</u> AC outlets	
For the U.S.A. and Canada UNSWITCHED	1 (200W, 1.6A max
For other countries UNSWITCHED	
Power consumption	
Dimensions	
Weight (net)	D : 371 mm(14-5/8") 4.2 kg (9.3 lb



1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

For the U.S.A.

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.

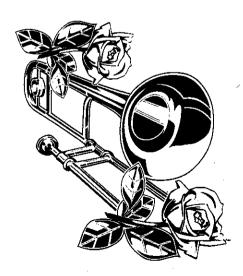
NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -- Reorient or relocate the receiving antenna.
- -- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.



MEMO:



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