STEREO POWER AMPLIFIER

KAC-622

INSTRUCTION MANUAL

B64-0027-00



KENWOOD CORPORATION

FILE

© PRINTED IN JAPAN 864-027-00|KK

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 power amplifier.

For your records

ACCESSORY

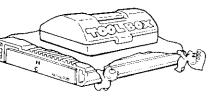
No.	Part name	External View	Number of units
1	Power connection cord	E3 0-3884-05	1



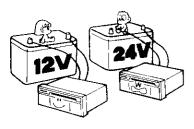
) PREVENT ELECTRIC SHOCK, RE AND OTHER INJURY. LEASE NOTE THE FOLLOWINGS:

.

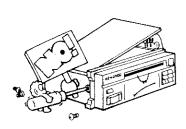
To keep good ventilation, do not anything on top of the unit.



The unit is designed to be connected 12 V DC and negative grounding.



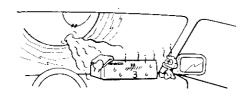
Do not open enclosure, such as front panel, top or bottom cover.



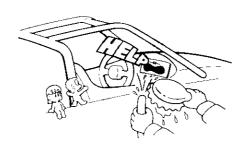
 Do not drop pieces of metal, needles, coins and other electrically conductive materials into the unit.



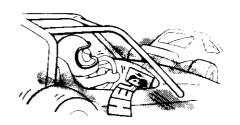
Do not place the unit, where it will be exposed to direct sunlight or close to heating device.



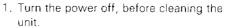
· Do not dash water on the unit.



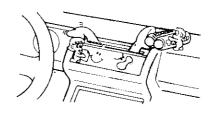
Do not place the unit in areas of excessive dust, high humidity or on unstable surfaces.



CLEANING



- Do not use any type of abrasive pad, thinner, benzine and any such kind of objects.
- 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.



If an abnormal smell or smake is detected, immediately turn the power off.



If you have difficulty in installing the set in your car, please contact your KEN-WOOD dealer

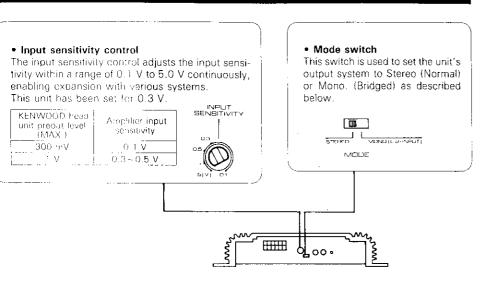
FCC WARNING:

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.

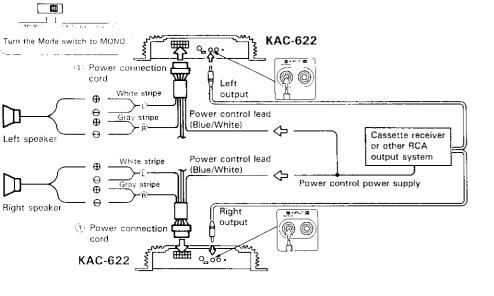
:r-: **3**

 (E_{2})

JSE OF THE OPERATION PANEL ACCORDING TO SYSTEM TYPE



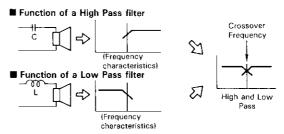
I This unit is provided with a bridged output function which enables you to double the unit's power output. Since the output becomes monaural when the bridged output function is used, systems can be configured such as those shown below. (for 4 Ω speakers)



CONSTANT TABLE OF NETWORK FOR 3D

You can construct a multiple speaker system through the use of passive crossovers (coil and capacitors) as shown below: (if the coils and capacitors are not available in the value listed, coils and capacitors with similar or close values can be used without affecting the profomance in practical use.

■ 6 dB/Octave for High and Low pass Filter



■ 6 dB/Octave w/Sub Woofer and Full Range Speakers

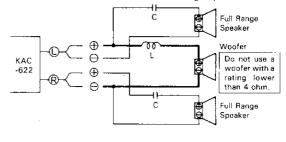


Table of content for 6 dB (4 Ohm)

Cross-over Frequency	L (Coil)	C (Capacitor)
30Hz	21.2mH	1330μF
50Hz	12.7mH	800µF
80Hz	8.0mH	500μF
100Hz	6.4mH	400μF
150Hz	4,2mH	270μF
200Hz	3.2mH	200µF
260Hz	2.4mH	150μF
400Hz	1.6mH	100μF
600Hz	1.1mH	70 μ F
800Hz	0.8mH	50μF

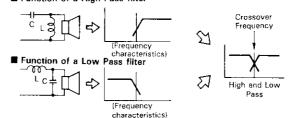
When using a 2 ohm speaker, use half the value ϵ the coil for low pass and use twice the value of the capacitor for high pass.

Example: 30 Hz L = 10.6 mH, $C = 2660 \mu F$ When using a 8 ohm speaker, use twice the value α the coll for low pass and use half the value of the capacitor for high pass.

Example: 30 Hz L = 42.4 mH, $C = 665 \mu F$

■ 12 dB/Octave for High and Low pass Filter

■ Function of a High Pass filter



■ 12 dB/Octave w/Sub Woofer and Full Range Speakers

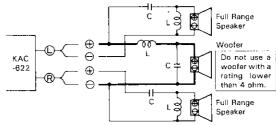


Table of content for 12 dB (4 Ohm)

Table of Content for 12 db (4 Onn)				
Cross-over Frequency	L (Coil)	C (Capacitor)		
30Hz	29.7mH	950μF		
50Hz	17.8mH	570μF		
80Hz	11, 1 mH	350μF		
100Hz	8.9mH	280μF		
150Hz	5.9mH	190µF		
200Hz	4.5mH	140μF		
260Hz	3.4mH	110μF		
400Hz	2.2mH	70μF		
600Hz	1.5mH	48µF		
800Hz	1.1mH	35μF		

When using a 2 ohm speaker, use half the value of the coil for low pass and use twice the value of the capacitor for high pass.

Example: 30 Hz L=14.9 mH, C=1900 μ F When using a 8 ohm speaker, use twice the value the coil for low pass and use half the value of the capcitor for high pass.

Example: 30 Hz L = 59.4 mH, C = $475 \mu F$

The van' MANASA BULLS -

■ INSTALLATION

- Before installation and wiring, remove the
 derminal of the battery to prevent short-circuiting.
- Connect the input and output cords of the system.
- Connect the ground to the metal chassis of the car.
- Connect the power supply lead (yellow).

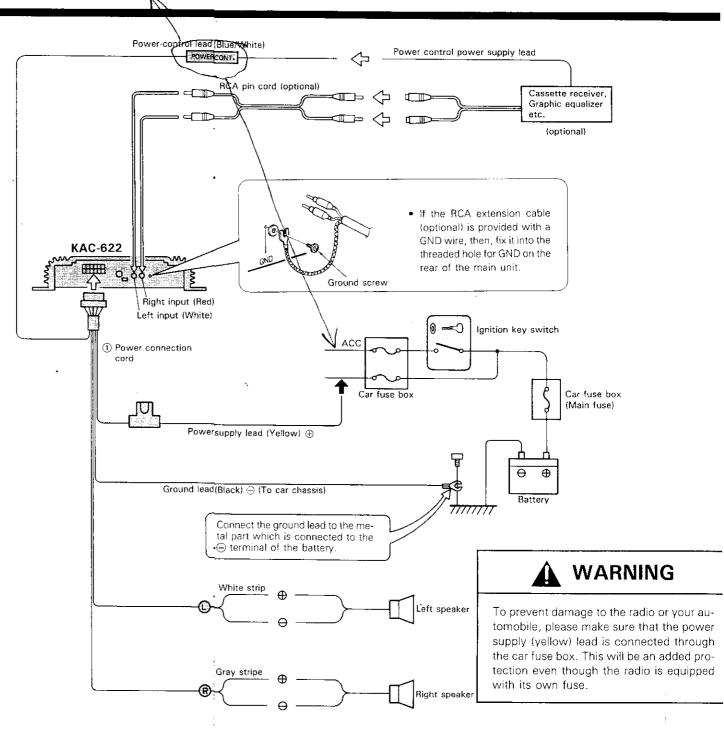


 If a fuse is blown, first check that the associated wires are not shortcircuited then replace the fuse with a new one having the same capacity.

CAUTION -

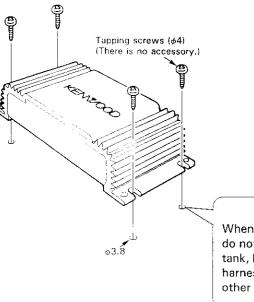
Always connect the without white stripe, gray stripe speaker wires to the \bigcirc terminals of the speaker systems. Never let the \bigcirc speaker wires touch and never connect them to the chassis (ground). Do not let the speaker terminals come into contact with the chassis (ground).

Insulate any unused output wire with vinyl tape to prevent a short circuit.



NSTALLATION

. Installation



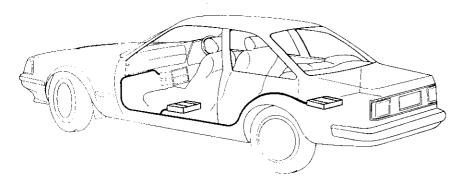


- When installing to the car, install the unit securely for safety driving.
- Install the unit in a wellventilated place and do not place the (heavy) object on it.

CAUTION

When making the hole, do not damage the fuel tank, brake tube, wiring harnesses, etc. on the other side.

2. Installation location



- Since the power amplifier has no parts which require operation, it can be installed at a
 position away from the driver's seat without any hinderances.
- As generally accepted positions for its installation, places such as under the front seat or inside the trunk, etc. can be considered.
- Use the extension cables. CA-5W/3W (0.5 m), CA-15W/13W (1 m), CA-25W/23W (2 m), CA-45W/43W (4 m) and CA-65W/63W (6 m) (optional) when the connected models are to be installed away from the power amplifier.

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	
The sound level is low. (No sound from one side.)	A speaker cord has become uncon- nected.	Check the speaker cord connections.	
The sound quality is bad. (The sound is distorted.)	The speakers are connected to the same wires. A speaker cord is pinched by a screw in the car body.	Connect each speaker terminal to its respective speaker output. Check the speaker wiring.	

SPECIFICATIONS

Specifications subject to change without notice.

Audio section Max Power Output

. Max Fower Output .	
Normal (STEREO)	60 W + 60 W
Bridged (MONO)	130 W
Power Output	
Normal (STEREO) (20 Hz \sim 20 kHz, 4 Ω , less than 0.0	8% THD)30 W+30 W
Bridged (MONO) (1 kHz, 4 Ω , 0.8% THD)	80 W
Output Power	
Normal (STEREO) (1 kHz, 2 Ω , 0.8% THD)	40 W + 40 V
Frequency Response (-3 dB)	4 Hz~65 kH:
Signal to Noise Ratio	100 d£
Sensitivity (rated output) MAX	0.1 \
MIN,,	
Input Impedance	
Damping Factor (100 Hz)	More than 10(
General	Dept 30 1 Just
Operating Voltage	
Current Consumption (MAX.)	15 /
Dimensions (W×H×D).	
Sandiolog III VII VOILLIAMENTALIA	$(8 \times 1-7/8 \times 5-1/2 \text{ in.}$
Weight	