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You can read the recommendations in the user guide, the technical guide or the installation guide for KENWOOD KAC-628. You'll find the answers to all your questions on the KENWOOD KAC-628 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual KENWOOD KAC-628
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KENWOOD

KAC-728
KAC-628
KAC-528

POWER AMPLIFIER
INSTRUCTION MANUAL
KENWOOD CORPORATION

B64-1380-00 (EM)



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Manual abstract:

· If the unit does not seem to be working right, consult your Kenwood dealer. To prevent injury and/or fire, take the following precautions: · When extending the battery or ground cables, make sure to use automotive-grade cables or other cables with an area of 5 mm² (AWG10) or more to prevent cable deterioration and damage to the cable coating. · To prevent short circuits, never put or leave any metallic objects (e.g., coins or metal tools) inside the unit. · If the unit starts to emit smoke or strange smells, turn off the power immediately and consult your Kenwood dealer. · Do not touch the unit during use because the surface of the unit becomes hot and may cause burns if touched. 2CAUTION 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. @@@@ · 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. · When replacing a fuse, only use a new one with the prescribed rating. @@@@ · If the Power indicator does not light when the power is turned on, the protection function may be activated. Check whether there is any indication of trouble. Power indicator s The protection function activates in the following situations: · When a speaker cable may be short-circuited. · When a speaker output contacts ground. · When the unit malfunctions and a DC signal is sent to the speaker output. · When the temperature of internal parts exceeds 120°C (248°F). · When a ground cable of the center unit (cassette receiver, CD receiver, etc.) or this unit is not connected to a metal part serving as an electrical ground passing electricity to the battery's negative terminal.

Installation procedure 1. @2. Set the unit according to the intended usage. 3. Connect the input and output cables of the units. 4. Connect the speaker cables. 5. @6. Install the unit in the car.

7. Connect the negative - terminal of the battery. @@@@ · Connect the speaker cables to appropriate speaker connectors separately. Sharing the negative cable of the speaker or grounding speaker cables to the metal body of the car can cause this unit to fail. · After installation, check that the brake lamps, wipers, and wipers work properly. 3 Controls Operations of the following control and switches are required in accordance with the center unit and speakers connected with this unit. FILTER OFF LPF OPERATION STEREO MONO(Lch) 0.5 1.0 0.3 SPEAKER LEVEL INPUT LEFT RIGHT LINE IN L R KAC-728 GND MIN MAX INPUT SENSITIVITY(V) 1 2 3 4 5 6 FILTER OFF HPF LPF OPERATION L+R STEREO MONO(Lch) 0.5 1.0 0.3 SPEAKER LEVEL INPUT LEFT RIGHT LINE IN L R KAC-628 1.0 GND MIN MAX INPUT SENSITIVITY(V) 1 2 3 4 5 6 SPEAKER LEVEL INPUT LEFT RIGHT FILTER OPERATION STEREO MONO(Lch) 0.5 1.0 0.

3 KAC-528 OFF LPF LINE IN L R GND MIN MAX INPUT SENSITIVITY(V) 1 2 3 4 5 6 POWER IN GND BRIDGED KAC-728 FUSE(20A x 2) BATT P.CON(REMOTE) LEFT RIGHT SPEAKER OUTPUT KAC-628 FUSE(25A) 7 8 90 FUSE(15A) 20 20 POWER AMPLIFIER 7 8 90 POWER IN ! BATT GND P.CON(REMOTE) BRIDGED LEFT RIGHT SPEAKER OUTPUT 25 POWER AMPLIFIER ! POWER IN BATT GND P.CON(REMOTE) BRIDGED LEFT RIGHT SPEAKER OUTPUT KAC-528 7 8 90 15 POWER AMPLIFIER ! 4 1 RCA cable ground lead terminal 2 FILTER switch These switches allow filtering of the speaker output signals. KAC-628 KAC-728/528 FILTER FILTER OFF LPF OFF HPF LPF · HPF (High Pass Filter) position (KAC-628 only) Only frequencies of 150 Hz or higher are output.

(Frequencies below 150 Hz are cut.) · LPF (Low Pass Filter) position Only frequencies of 80 Hz or lower are output. (Frequencies above 80 Hz are cut.) The Lch and Rch will be mixed before output even if the operation switch is set to STEREO. 5 LINE IN terminal 6 Speaker level input terminals 7 Fuse (20 A x 2 : KAC-728) Fuse (25 A x 1 : KAC-628) Fuse (15 A x 1 : KAC-528) 8 Battery terminal 9 Ground terminal 0 Power control (REMOTE) terminal ! SPEAKER OUTPUT terminals · Stereo Connections: When you wish to use the unit as a stereo amplifier, stereo connections are used.

@@@@@ Use the diagram on the 10 0.5 0.3 right as a guide. @@@@ With this connection, shock noise may be generated when the power of the genuine-accessory car stereo is switched ON/OFF. s Speakers cable connection (Stereo Connections) Left output POWER IN Right output FT ED IDG BR RIG HT GND BATT P.

CON(REMOTE) BRIDGED LE RIGHT SPEAKER OUTPUT LEFT POWER AMPLIFIER Lead terminal (Commercially available parts) Right speaker Left speaker (Bridged Connections) ED IDG BR RIG HT POWER IN GND BATT P.CON(REMOTE) BRIDGED LE RIGHT SPEAKER OUTPUT FT LEFT POWER AMPLIFIER Lead terminal (Commercially available parts) s Speaker Selection · The rated input power of the speakers that are going to be connected should be greater than the maximum output power (in Watts) of the amplifier. Use of speakers having input power ratings that are less than the output power of the amplifier will cause smoke to be emitted as well as damage. · The impedance of the speakers that are going to be connected should be 2 or greater (for stereo connections), or 4 or greater (for bridged connections). @@@@ The capacitor rating should be as close as possible to 331.25 (µF) and the coil rating should be as close as possible to 5.3 (mH). 2CAUTION · If you wish to bridge-connect a speaker, the speaker impedance must be no less than 4 ohms. Connecting a speaker with an impedance lower than 4 ohms may damage the unit. · Be sure to connect capacitors to speakers to which high frequencies will be passed.

Failure to do so will result in a drop of the combined impedance with the subwoofer. · Ensure that the withstand voltage and current ratings of the capacitors (C) and coils (L) are sufficient. Coil (L): Passes low frequencies and blocks high frequencies. (Low pass) Capacitor (C): Passes high frequencies and blocks low frequencies. @@@@ cables.

@@to "Protection function". @@fuse and use a lower volume. The input sensitivity adjusting control is not set to the correct position. · The speakers cable are connected with wrong + / polarity. · A speaker cable is pinched by a screw in the car body.

· The switches may be set improperly. Adjust the control correctly referring to "Controls". · Connect them properly checking the + / - of the terminals and cables well. · Connect the speaker cable again so that it is not pinched by anything.



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· Set switches properly by referring to "System examples". The output level is too small (or too large). The sound quality is bad. (The sound is distorted.) 11
Specifications Specifications subject to change without notice. Audio Section .

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KAC-728 Max Power Output (4) Normal

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..200 W × 2 Bridge ...

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*....600 W × 1 Rated Power Output (4) Normal (DIN45324, +B=14.
4 V)*

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..100 W × 2 Bridge (1 kHz, 0.8 % THD) ..

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.....
...300 W × 1 Rated Power Output (2) Normal (1 kHz, 0.8 % THD) .

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....150 W × 2 Frequency Response (+0, 1 dB) .

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.....5 Hz ~ 50 kHz Signal to Noise Ratio ..

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..100 dB Sensitivity (MAX) (rated output)

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...0.2 V Sensitivity (MIN) (rated output) .

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..5.0 V Input Impedance ..

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.....10 k Low Pass Filter (12 dB/oct.) .

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.....80 Hz High Pass Filter (12 dB/oct.) ...

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.... KAC-628 100 W × 2 300 W × 1 50 W × 2 150 W × 1 75 W × 2 10 Hz ~ 45 kHz 100 dB 0.
15 V 4.0 V 10 k 80 H.



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