



DIGITAL POWER CAPACITOR



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PRODUCT MANUAL

Introduction :

Thanks for your purchase of the hi-quality digital capacitor from The manual provides detailed informations for function, installation and operation of the power capacitor. To avoid possible injury and damage for your audio system, please study carefully the manual before you start the installation of the power capacitor.

Operation :

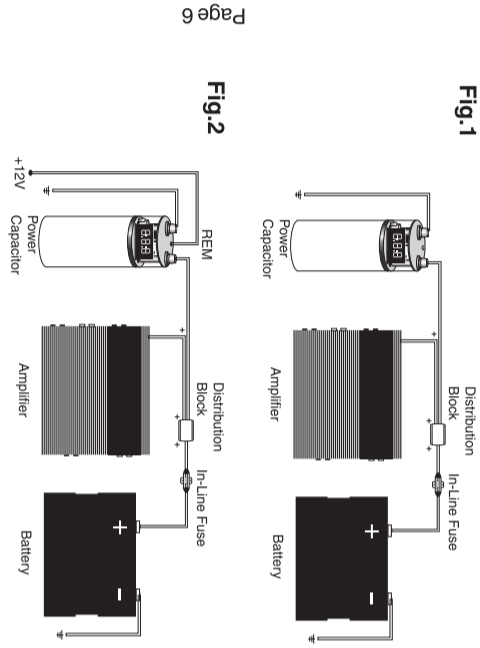
The digital-display capacitor is an energy storage device, it is designed to supplement audio amplifiers power supply during high current demand. An example of such a demand is when

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Power-Up Procedures and Display Functions

1. Connect the power cable to the digital power capacitor. Connect the ground cable first and second the positive cable.
2. The digital pcb system will turn on automatically at first charging process. Then, the status led will flicker and the decimal point display will flicker, to indicate the system is charging the capacitor.
3. When the capacitor has been fully charged, the decimal point display will not flicker and you will see the display show the DC voltage of the car electronic system.
4. If the DC voltage of the car electronic system exceeds over +/- 0,1 ampere, the digital pcb will

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music hits a low bass transient. The overall bass response of an audio system will be enhanced by using this device. It is capable of storing a large amount of energy which can be discharged very fast when needed. This makes the power cap a logical addition to the audio system as automotive batteries are not designed to deliver the current required in high power car audio installations. Another feature of the digital display capacitor is its availability to filter car AC voltage induced by the amplifier's power supply. This can otherwise cause audible noise in the sound system of the car.

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automatically operate (ex.: the car audio system hits the bass or use some other high consumed electronic equipment, which cause large voltage drops)

5. If the DC voltage of the car does not exceed over +/- 0,1 ampere, the digital pcb will keep one original "on" status for one minute to assure the car electronic system is stable. The digital pcb will automatically turn off and stay in "stand-by" mode.
6. If the DC voltage of the car electronic system exceeds over +/- 0,1 ampere, the capacitor will automatically operate again.

Safety Protection Function:
If the user accidentally reverses the polarity of (+) and (-), it can cause

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should be connected directly to the vehicle's chassis at a bare metal surface. Do not ground the capacitor directly to the amplifier ground terminal or ground cable (see **fig.1**) The positive and the negative wires to the capacitor should have the same gauge as the amplifier power wires. High Performance 8 or 10AWG OFC power cables are a good choice for this application.

If the digital display has remote terminal, remember to connect it with the remote terminal of your amplifier(s) using 18 to 20 AWG primary wire. (See **fig.2**)

REM(ON/OFF)=REMOTE CONTROL
Connect the Rem terminal to the automatic antenna connector of your car radio. Now when turning on and off your car radio, the amplifier automatically switches on and off. A cable diameter of 0.5mm² is sufficient.

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Installation :

For the maximum performance, the digital power capacitor should be installed as close to your amplifier as possible. The ideal location is one that allows short wiring runs while keeping the capacitor somewhat isolated from the heat created by the amplifier system. The positive power wire should be kept as short as possible and should be connected to the amplifier's battery supply cable. We recommend that a High-Performance Distribution block should be used to create a splice into this cable (as shown below). No fuses should be installed in the wire between the power capacitor and the amplifier system, but make sure, that there is an appropriate fuse at the battery in the main supply cable. The ground cable for the power capacitor should be kept as short as possible and

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adamage to the system and also be harmful for the user. Therefore, we have designed the pcb relay inside which protects wrong connection and the unit will not turn on and the buzzer will warn. The digital power capacitor will only turn on if all wiring is connected correctly as per instruction.

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WARNING :
This power capacitor may explode and cause serious injury or death if abused or connected improperly.
Refer to the installation manual for correct procedures when making connections, and/or charging/discharging the capacitor.
Do not expose the capacitor to voltages higher than specified at any time.
Do not install Cap in direct sunlight or extreme temperatures.
CAUTION:
Improper connection of this product can cause electrical damage to the vehicle and/or equipment. Prosonic assumes no responsibility for any damages that could occur due to improper connection of this product.

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