

DIGITAL POWER CAPACITOR

OWNERS'S MANUAL / INSTRUCTIONS

Your Digital Display Power Capacitor should include:

- A: Display power kondensator
- B: Mounting Brackets
- C: Owners Manual
- D: A set of tools in a poly bag.

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Warning:

This power capacitor may explode and cause serious injury or death if abused or connected improperly.

We recommend this item is fitted by a fully qualified auto electrician experienced in the fitting of this apparatus.

Please refer to the installation manual for correct procedure 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 the power capacitor in direct sunlight or extreme temperatures.

Caution:

Improper connection of this product can cause electrical damage to the vehicle and or its equipment. The manufacturer and seller assumes no responsibility for any damage that could occur due to improper connection of this product.

Introduction:

Thank you for your purchase of this Hi-Quality digital capacitor.

This manual provides detailed information for the function, installation and operation of this power capacitor.

To avoid any possible injury and damage to 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 the audio amplifiers power supply during high current demand. An example of such a demand is when 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.

Installation:

For 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 wire should be kept as short as possible and should be connected to the amplifiers 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 should be connected directly to the vehicle's chassis at the bare metal surface. Do not ground the capacitor directly to the amplifier ground terminal or ground cable. (See **fig.1**) The positive and 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 a 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. When turning on and off your car radio, the amplifier will now automatically switch on and off. A cable diameter of 0.5mm² is sufficient.

Fig.1

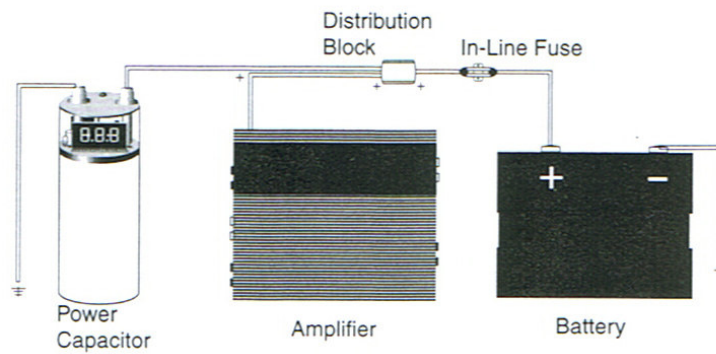
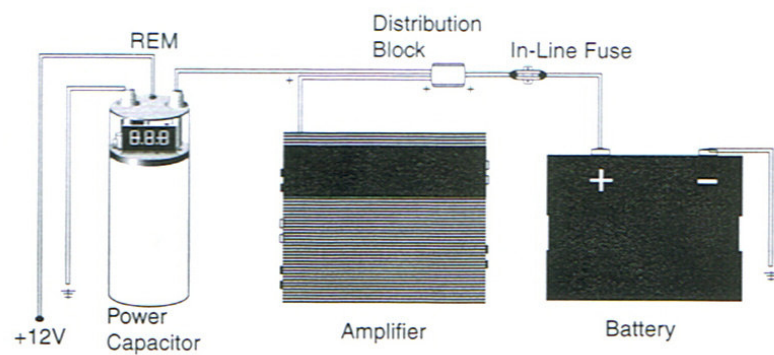


Fig.2



Power-Up Procedures and Display functions.

1. Connect the power cable to the digital power capacitor. Connect the ground cable first followed by the positive cable.
2. The digital PCB system will turn on automatically at the first charging process. Then the status led will light and 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's electronic system.
4. If the DC voltage of the car's electronic system exceeds over +/- 0,1 ampere, the digital PCB will automatically operate (i.e. when the car audio system hits the bass or uses 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:

The PCB relay inside has been designed to protect against incorrect connection. The unit will not turn on and a buzzer will sound if incorrectly connected. The digital power capacitor will only turn on if all wiring is connected correctly as per the instructions. Otherwise if the user had accidentally reversed the polarity of the (+) and (-), this will cause damage to the system and be harmful for the user.