PYLE
PLCAPE32 Digital Power Capacitor

PYLE PLCAPE32 Digital Power Capacitor User Guide

Contents

PYLE

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Specifications:

- **Capacity**: 3.2 Farad
- Designed to supplement the audio amplifier's power supply during high current demand
- Enhances overall bass response of the audio system
- Filters car AC voltage induced by the amplifier's power supply
- Safety protection function against incorrect connections

Product Usage Instructions

Installation:

1. Connect the ground cable directly to the vehicle's chassis at a bare metal surface.
2. Connect the positive and negative wires to the capacitor with the same gauge as the amplifier power wires.
3. Use high-performance 8 or 10 AWG OFC power cables for best results.

Power-Up Procedures:

1. Connect the ground cable first, followed by the positive cable to the digital power capacitor.
2. The digital PCB system will turn on automatically during the initial charging.

Display Functions:
If all wiring is connected correctly, the digital power capacitor will turn on. If there is an incorrect connection, a buzzer will warn the user and prevent the unit from turning on.

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Questions or Comments?
We are here to help!

- **Phone:** 1.718.535.1800
- PyleUSA.com/ContactUs

PLEASE READ THIS USER MANUAL COMPLETELY BEFORE OPERATING THIS UNIT AND RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

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 in direct sunlight or extreme temperatures.

CAUTION:
Improper connection of this product can cause electrical damage to the vehicle and/or equipment. Pyle USA assumes no responsibility for any damages that could occur due to improper connection of this product.

Introduction

- This manual provides detailed information on the function, installation, and operation of the power capacitor.
- To avoid possible injury and damage to your audio system, please study the manual carefully before you start the power capacitor installation.

Operation

- The digital display capacitor is an energy storage device designed to supplement the audio amplifier’s 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 quickly when needed.
- This makes the power capacitor 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 ability to filter car AC voltage induced by the amplifier's power supply. This can otherwise cause audible noise in the car's sound system.

WARNING: Cancer and Reproductive Harm – **www.P65warnings.ca.gov**

Installation

- For maximum performance, the digital power capacitor should be installed as close to your amplifier as possible. The ideal location 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 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 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 a 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 10 AWG 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. Now, when turning on and off your car radio, the amplifier automatically switches on and o. A cable diameter of 0.5 mm² issufficientt.

fig. 1

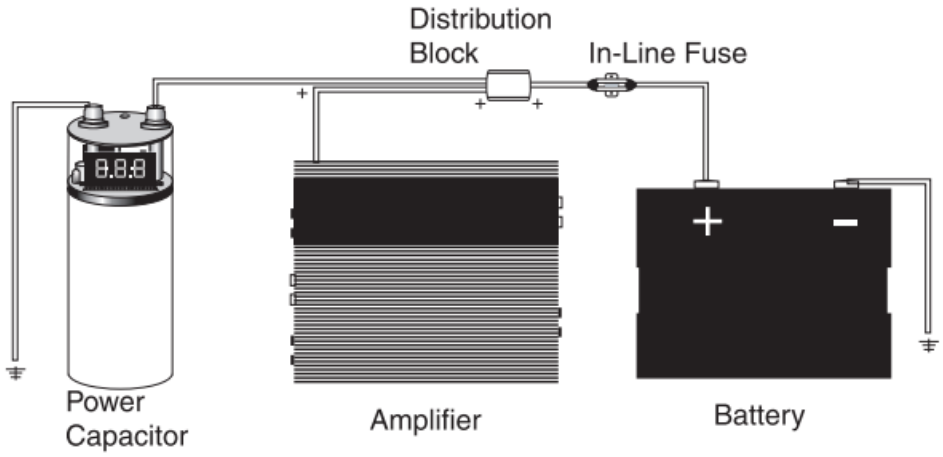
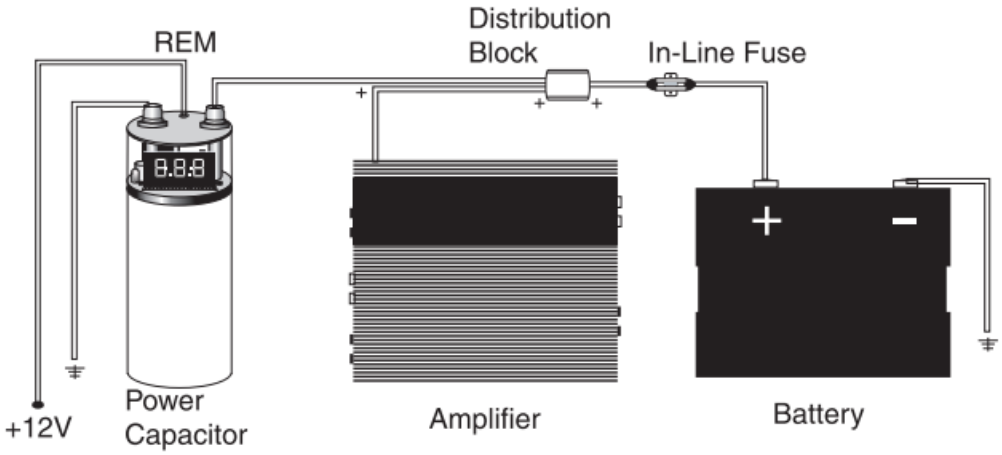


fig. 2



Power-Up Procedures and Display Functions

1. Connect the power cable to the digital power capacitor. Connect the ground cable first and then the positive cable.
2. The digital PCB system will turn on automatically during the initial charging process. The status LED will light, and the decimal point display will icker to indicate the system is charging the capacitor.
3. When the capacitor is fully charged, the decimal point display will stop flickering, and the display will show the DC voltage of the car's electronic system.
4. If the DC voltage of the car's electronic system exceeds ±0.1 ampere, the digital PCB will automatically operate (e.g., when the car audio system hits the bass or uses other high-consumption electronic equipment, causing large voltage drops).
5. If the DC voltage of the car does not exceed ±0.1 ampere, the digital PCB will maintain its "on" status for one minute to ensure the car's electronic system is stable. The digital PCB will then automatically turn o and stay in "stand-by" mode.
6. If the DC voltage of the car's electronic system exceeds ±0.1 ampere, the capacitor will automatically operate again.

Safety Protection Function

- If the user accidentally reverses the polarity of (+) and (-), it can cause damage to the system and also be harmful to the user. Therefore, we have designed the PCB relay inside to protect against incorrect connections.
- The unit will not turn on, and the buzzer will warn the user. The digital power capacitor will only turn on if all

wiring is connected correctly as per the instructions.

Features

- 3.2 Farad Digital Display Power Capacitor
- Capacitance ± 5%. 20-24 Volt Surge, 221°F/105°C
- Blue Digital Display and Blue LED flash
- Strong Finishing For A Better Installation Result
- 1 Pair Clear Brackets Included
- Chrome Plated Post Kits
- Electronic Polarity Protection Circuit
- Over Voltage Protection Circuit
- Includes Mounting Charging Hardware
- Aluminum Brushed Case

What's in the Box

- Digital Power Capacitor
- A pair of Clear Brackets
- Mounting Charging Hardware

Technical Specs

- **Power Output:** DC 12- 24V
- **Construction Materials**: Aluminum
- **Product Dimensions:** 2.99'' x 9.76'' – inches

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FAQ

Q: What gauge wire should be used for connecting the power capacitor?
A: Use the same gauge wire as the amplifier power wires, typically 8 or 10 AWG OFC power cables.

Q: How should the ground cable be connected?
A: Connect the ground cable directly to the vehicle’s chassis at a bare metal surface, keeping it as short as possible.

Documents / Resources

	PYLE PLCAPE32 Digital Power Capacitor [pdf] User Guide PLCAPE32, PLCAPE32 Digital Power Capacitor, PLCAPE32, Digital Power Capacitor, Power Capacitor, Capacitor

References

- P65warnings.ca.gov
- User Manual