

# CAP2.1 2 Farad 12v Power Capacitor With Digital Display



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## Instruction manual

Thank you for choosing Bassface. From the simplest connector to our top of the range amplifier - every element of these products has been designed to give you the best possible performance for your money. Please take the time to read these instructions carefully as they contain useful and important information. Modern high power audio systems can generate voltages at the speaker similar to mains operated equipment - for some reason everyone seems to ignore or forget this. Your wiring needs to be good to be safe. Please remember this and take your time. Please exercise caution when setting volume levels - powerful audio equipment can easily produce enough sound to permanently damage hearing. Remember that audio competitors use ear protection when operating and competing. Do remember that incorrect installation or abuse is not covered under warranty - please make sure that your installation and any partnered product is suitable and compatible. If you are unsure please seek qualified advice before proceeding. Always use appropriate hand and eye protection when working with tools, and always work within your capabilities as an installer. We offer a 12 month manufacturer warranty via your distributor or retailer. Please retain your purchase receipt as proof of purchase. Please note that Bassface operates a policy of continuous product development and we reserve the right to change specification without prior notice. You can follow our process on our website by reviewing the version history information.

Please note that we sometimes include information inside these manuals which we feel is of potential value to the client on related subjects such as conversion charts, capacitance values or wiring diagrams. Please feel free to copy any of this information since it is in the public domain.



The capacitor needs to be installed as close to the amplifier as possible for maximum performance. We recommend no further away than 18 inches as a maximum.

Once you have determined a safe location for the product you can use the provided mounting hardware to fasten the capacitor securely to the car.

Next, connect the power wire from the car battery to the positive terminal of the capacitor. Note that although this cable will (should!) be already fused at the battery end when you add a capacitor you are effectively adding another power source, and so should actually also install a fuse at the capacitor end too in case there is a short circuit between the fuse at the front and the capacitor at the back. Many people do not do this, but it is much safer practice to do so, and we recommend that you follow this advice.

When you make the connection to the capacitor, please bear in mind that even though the large allen bolt heads of the terminals look big and strong (and you get a big allen key to swing on them with!) you are tightening what are just standard small gauge threads. It is highly possible to overtighten the bolts and snap off the heads. The correct tightness is around 4.5Nm - which translates into merely a smart "pinch" with your hand pushing on the first two inches of the allen key. Snapped bolts are NOT covered by warranty.

At this time you should also connect another cable to the positive terminal of the capacitor and run it out to the amplifier.

The final connection is the ground lead, which is connected from the negative terminal of the capacitor down to a suitable point on the vehicle chassis. Before you make this connection, place the supplied charging resistor between the ground point and the end of

the cable. This will allow the capacitor to take an initial charge without a large spark, which makes installation safer and more comfortable.

Once the pre-charge is complete you can bolt down the ground wire. You need to ensure that a proper bolted connection is made to clean, bare metal. Please, please, please do not attempt to trap a piece of bare wire under the boot lock, or use a rear light cluster nut, or even just a self tapping screw. The ground connection is the most important part of this installation - and a few moments extra spent to get it perfect will reward you handsomely with noise free, trouble free low distortion operation at maximum performance.

The capacitor voltage display will switch on when it recognizes a current draw, and switch off after a few minutes of inactivity.

Remember that a capacitor is a storage device for electrical energy, rather like a car battery. It is therefore essential that the quality of workmanship in the connections and setup be of factory quality. We also recommend the use of an additional fuse on the positive cable from the battery, placed closed to the capacitor. This will protect the cable from damage in the event of a short circuit due to the capacitor itself (rather than the car battery) unloading itself into the short circuit.