

Attaching of Eventide PowerFactor 2 power supply to a Pedaltrain board

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This document should help you to attach the Eventide PowerFactor 2 power supply to a Pedaltrain board.

Considerations before you start

Power supply on top or underneath the pedal board?

The first question is whether you want to have the power supply on top or underneath the board. Top placement gives you easy access to outlets, settings switch, mains power cord, mains voltage selector switch and you always have a clear view on the LED indicators showing you the status of all isolated outlets. If there's any kind of faulty situation, like an overload or a shorted cable, you can locate it just by a glance at the status LEDs. Attaching the unit underneath the board gives you limited access to the mentioned features, since you need to flip your pedal board, but the underneath placement gives you more valuable space for your pedals on top of the board.

Space underneath the pedal board

The PowerFactor 2 is 88mm deep and so are all CIOKS link range power supplies. According to information received from John Chandler, CEO of Pro Stage Gear/Pedaltrain, there should be a minimum 89mm space between the bars/slats below the pedal boards, allowing accommodating the PowerFactor 2 or any of CIOKS link range power supplies in the space between. No modifications or taller feet are needed with Pedaltrain models PT-Jr, PT-1, PT-2, PT-3, PT-Pro or PT-Grande. If you have one of the small PT-nano or PT-mini, there is not enough height to fit a CIOKS link range power supply or the PowerFactor 2. In case of these two Pedaltrain models you'd have to raise the whole board with ex. taller feet. Whether you wish top or underneath placement, everything needed to attach the unit to the board is included with the power supply, no additional screws or mounting kit is needed.

Flex cables length

When planning where to attach the power supply to your Pedaltrain board in terms left, middle, right you must take into consideration the lengths of the Flex cables, both those which were included with your unit and those you can buy additionally. Make sure they all can reach from the intended outlet of the power supply to the input socket of the particular pedal. This consideration is crucial with the bigger pedal boards like the PT-PRO or PT-Grande. All Flex cable types are available in 30 and 50cm length where type 1 (black, BOSS standard) and type 4 (green, for Eventides or ex. 24V EHX pedals) are also obtainable in 80cm length. Now where the new Extension Flex is also obtainable you can get an extra 50cm on any Flex cable to reach the most far away pedals from the power supply.

AC mains inlet and courtesy AC mains outlet

Please also consider where you wish to have the power supply's AC mains inlet, so you easily can plug in the mains power cord to the unit. Also if you plan to add a link range power supply and extend the PowerFactor with 6 more outlets and power it from the courtesy AC mains outlet using the link adapter, there should be enough space for this next unit and the adapter plus a bit extra.

CIOKS / Eventide PowerFactor 2 power supply underneath or on top of a Pedaltrain board.

Clearance for the fan on the back

When mounting the PowerFactor 2 underneath a PT-Jr, PT-1 or PT-2 we recommend placing of the unit in a position, so the fan on the back of the unit is aligned with one of the two holes in the back part of the pedal board. This ensures free passage of air in heavy load situations, where the fan is automatically activated. With PT-3, PT-Pro and PT-Grande there are no holes, since the back of the board consists of two profiles, and free air passage in-between them is ensured in any position of the power supply.

What is included with a link range power supply and what else will you need?

With the power supply unit you get four screws, four spring washers, four stand-offs and a hex key. All these parts shown below are in a little zip-bag included with the power supply in the black cardboard box.

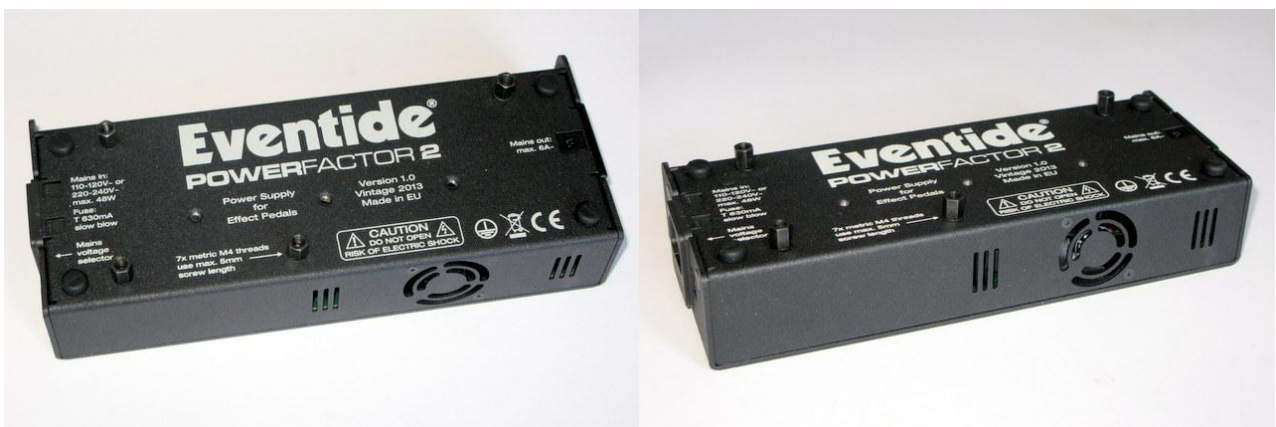
Not all the listed tools are strictly necessary but it's nice to have: pair of scissors, scotch tape, hammer, centre punch, $\varnothing 4$ -5mm drill bit and a drill driver to follow this guide.



Underneath a Pedaltrain pedal board

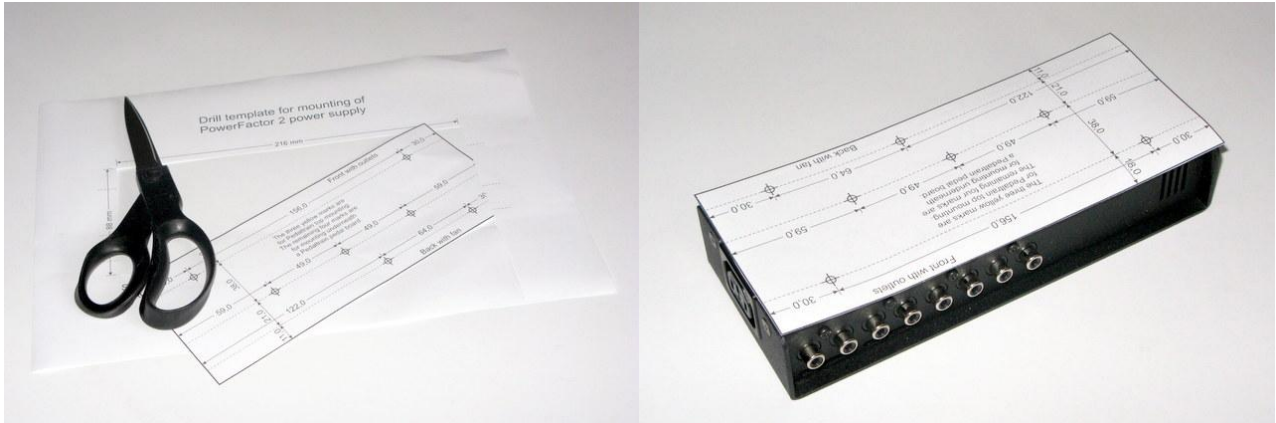
Following step-by-step guide shows how we mounted the PowerFactor 2 power supply underneath a Pedaltrain PT-2 pedal board. The procedure is exactly the same with other Pedaltrain models.

First attach the four stand-offs to the threaded holes in the bottom of the power supply as shown on the pictures below. The spring washers should be placed between the power supply and the stand-offs. You don't have to remove the rubber feet when mounting the power supply underneath a Pedaltrain board. Tighten the stand-offs firmly with your fingers, they'll be tightened more in the end when you use the key.



CIOKS / Eventide PowerFactor 2 power supply underneath or on top of a Pedaltrain board.

Download the pdf file with the drill template and print it ensuring the print scale is 100%. Cut the template out and place it on the bottom of the power supply to verify that it's the same size and the scale is 100%.



Now you have to decide where to mount the power supply in terms left/right. One of the two recommended positions is close to the middle of the board where the fan is facing one of the holes in the back of the board as shown below.



On the left picture below you see the position close to the middle of the board. If you wish to extend the PowerFactor 2 with additional power supply from CIOKS link range, you should place the PowerFactor 2 further to the left. Now the fan is facing the second hole in the back of the board. In this way there's enough space to link the PowerFactor 2 with ex. CIOKS Schizophrenic power supply using the link adapter.



CIOKS / Eventide PowerFactor 2 power supply underneath or on top of a Pedaltrain board.

Now remove the power supply from the spot, where you've decided to place it and put the template in the same place.



Secure the template to the board using some Scotch tape. Use a centre punch to mark the positions of the four holes to be drilled.



Drill the four holes. The result is shown on the right picture below.



Now use the four screws to attach the power supply to the board. Use the included hex key to tighten the screws. You're done and ready to make all the connections with Flex cables. On the following pictures you see the PowerFactor 2 mounted underneath the Pedaltrain pedal board from different angles.

CIOKS / Eventide PowerFactor 2 power supply underneath or on top of a Pedaltrain board.



If you wish to mount the PowerFactor 2 power supply underneath a bigger Pedaltrain board like PT-3, PT-Pro or PT-Grande models, the procedure is the same. In case of these bigger boards you're more free to choose where to place the power supply in terms left/right, since there's free space on whole length of the board for letting the air from the fan pass through.



Extending the PowerFactor 2 with additional CIOKS link power supply or MAdA universal mains adapter on a PT-Pro board

When attaching the PowerFactor 2 power supply to a Pedaltrain PT-Pro model you should consider a few more issues. If you later wish to use the MAdA universal mains adapter and plug it into the courtesy AC mains outlet, you need to secure enough space in-between the power supply and the middle or side profile. The space should be adequate to accommodate the adapter and the device you wish to plug into it.

CIOKS / Eventide PowerFactor 2 power supply underneath or on top of a Pedaltrain board.

Another case is if you now or later would wish to extend the PowerFactor 2 with more outlets and would like to link it with another CIOKS power supply from the link range. There's not enough space in-between the side and middle profile for these two power supplies linked together as shown on the first picture on the left below. You should place the PowerFactor 2 so the middle of the link adapter will be situated just above the middle profile of the PT-Pro board. This is shown on the following three pictures. Also you'll need seven longer stand-offs. Those included with PowerFactor 2 or all link units are 8mm long. For the arrangement shown below you need seven in 18mm length. These are available as a separate set.



On top of any Pedaltrain pedal board

If you wish to attach the PowerFactor 2 power supply on top of your Pedaltrain pedal board, please have a look at the following pictures.



CIOKS / Eventide PowerFactor 2 power supply underneath or on top of a Pedaltrain board.

Here we show it in the most left top corner of a PT-2 model. Other positions are of course also possible, just use minimum three screws to fasten the power supply to the board.



Prior to top mounting you should remove the detachable rubber feet from the power supply. Use the template to mark the three holes indicated with yellow on the template for mounting of the power supply flush with the back of the pedal board. Drill the holes and fasten the unit using just the screws. For top mounting you don't need the spring washers nor the stand-offs.

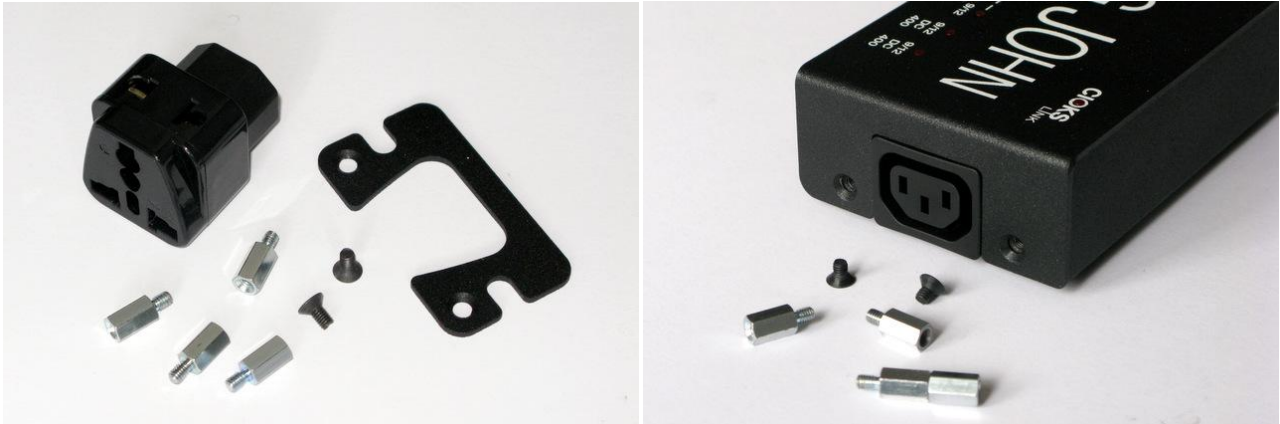
Go to the next page to see the step-by-step mounting guide of the MAda universal mains adapter, and how it can be used to power one or two plug-in adapters using the courtesy AC mains outlet of PowerFactor 2 or any CIOKS link range power supply.

CIOKS / Eventide PowerFactor 2 power supply underneath or on top of a Pedaltrain board.

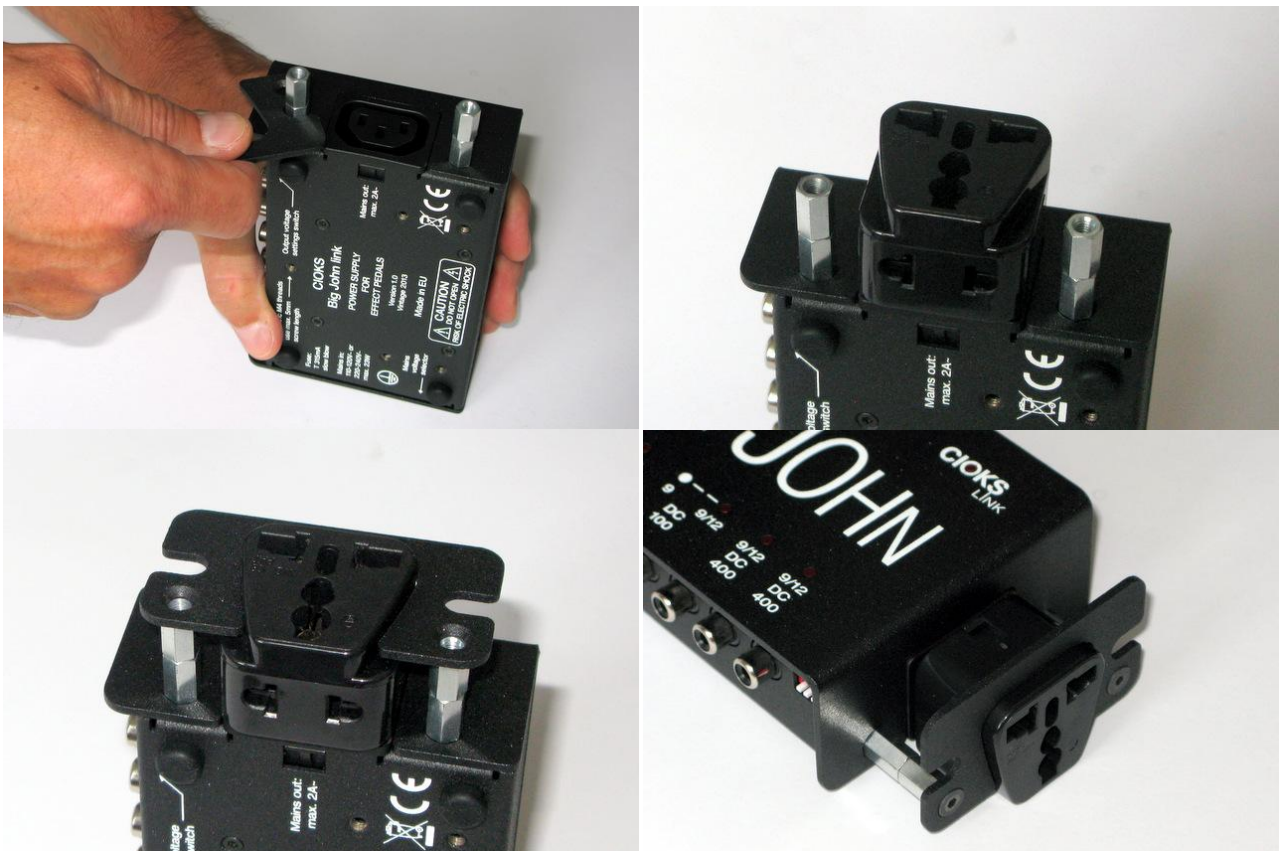
MAda – Universal mains adapter incl. mounting kit

The first picture shows what is included with the MAda – universal mains adapter incl. the mounting kit.

To attach the adapter using the mounting kit you need to remove the two screws on the same side of the power supply where the AC mains courtesy outlet is located. Screw the four stand-offs together into two pairs as shown.



Then attach the pairs of stand-offs to the power supply and tighten using the bracket as a wrench. Plug in the adapter and fasten the bracket on top of it using the included two screws.

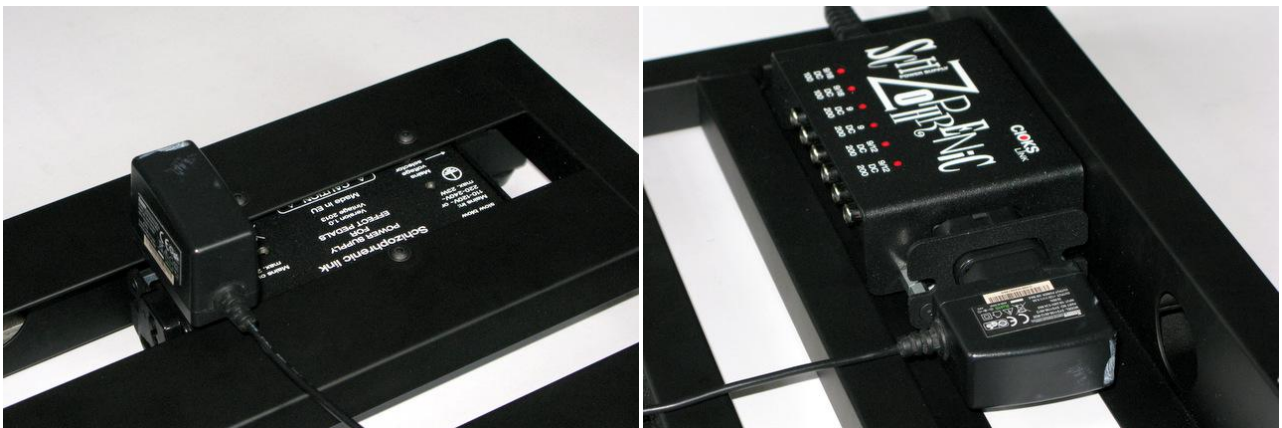


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The next two pictures show the mains adapter attached to the Schizophrenic link power supply underneath a Pedaltrain Junior board.



When a link type power supply is mounted underneath the Pedaltrain board as described earlier in this document, the adapter allows powering of two different devices like ex. a plug-in adapter – one plugged in from the top and one placed underneath the board as shown on following two pictures.



To secure the connection you can use a rubber band or a cable tie to fix the adapter to the bracket as shown below.

