

The Concept:

Make it easier for modellers who use solenoid point motors. Create a way to power all brands of higher current solenoids singly or in multiples... that will ensure the best possible reliability irrespective of the control method used, speed of commands or complexity of operations. Keep it easy to use and wire.

CDU 2+ is a totally self-contained, mains powered and super-high energy dual output capacitor discharge unit.

Economical, simple to connect and easy to wire, it is the one and only guaranteed way for you to be sure of reliable solenoid operation, always, no matter which solenoid type you choose to use or how you change them.

CDU 2+ will deliver all the energy and power you'll ever need for changing one, two or even several solenoid point motors at once. Because CDU 2+ has its own internal mains supply we've been able to design it to have the fastest possible recharge giving it huge energy potential by building in the highest power of any CDU ever offered.

Combine this with the fact that there are actually two high power CDU circuits inside to share the load, this gives the ability to double the power by combining them for extreme needs and no matter how many point motors you want to change or how fast your control system can send the commands, CDU 2+ will never fail you... whether your layout is DC or DCC powered, manually switched, DCC or computer controlled, large or small.

Cobalt Cdu2+

Connection just couldn't be easier. CDU2+ is fully compatible with and standards approved for mains power use in the UK, Europe, Australia, NZ and other countries using standard domestic 220~250v AC mains power.

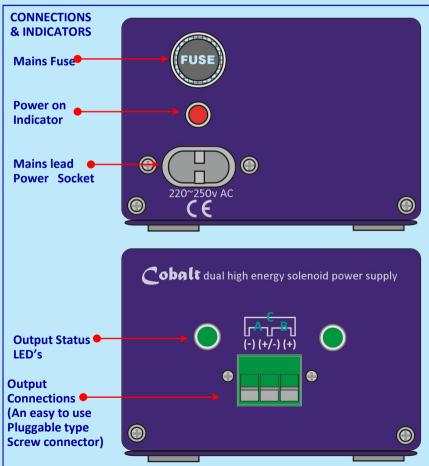
We chose an international standard "Figure 8" type mains power lead so modellers in any country can also be supplied with the correct mains connection without the need for changing plugs.

OUTPUT Specifications:

Output connection wiring is clearly indicated by the diagram above the three-terminal connector.

A and B are two separate output channels, and each individual channel is able to supply a 20v pulse via 13,800 microfarad 35v capacitors and each re-charges super fast, ready for next time.

You can also double power with "Option C" for long runs that have multiple solenoids at the end where all need to be changed at the same time. Option C gives a double power "kick" that guarantees totally reliable changing every time.



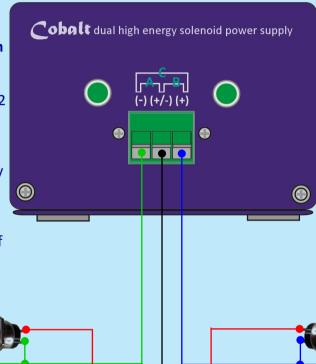
DCC the best of everything CONCEPtS



Cobalt Cdu2+ is very easy to wire: this is the conventional way for you to wire it.

When using this wiring method you can share the load between CDU-A and CDU-B. That way even with rapid-fire activity from software or DCC system macro's solenoids will work every time.

- (1) Wire should be at least 16x0.2 but preferably larger (32x0.2)
- (2) Switches can be any common NO type (normally off) push button switches as commonly used in model railways.
- (3) You can still also use the very high power C option for changing multiple solenoids if you are using this method.



BLACK WIRE:

Solenoid common. (this wire is both + and - at the same time) **GREEN WIRE:**

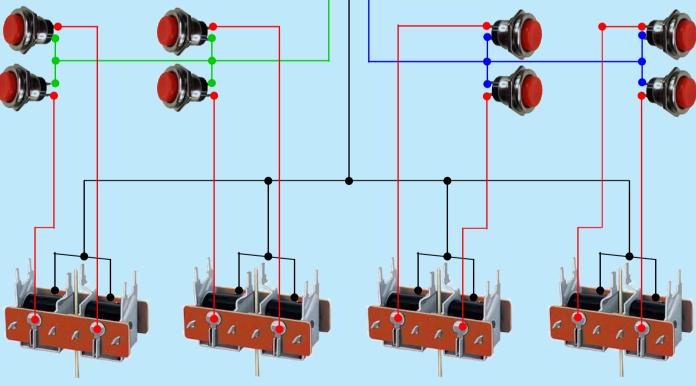
Switched wire (to all solenoids using CDU - A for power)

BLUE WIRE:

Switched wire (to all solenoids using CDU - B for power)

RED WIRE:

Trigger wires (from each pair of pushbutton switches to individual solenoid coils on each of the points / turnouts)

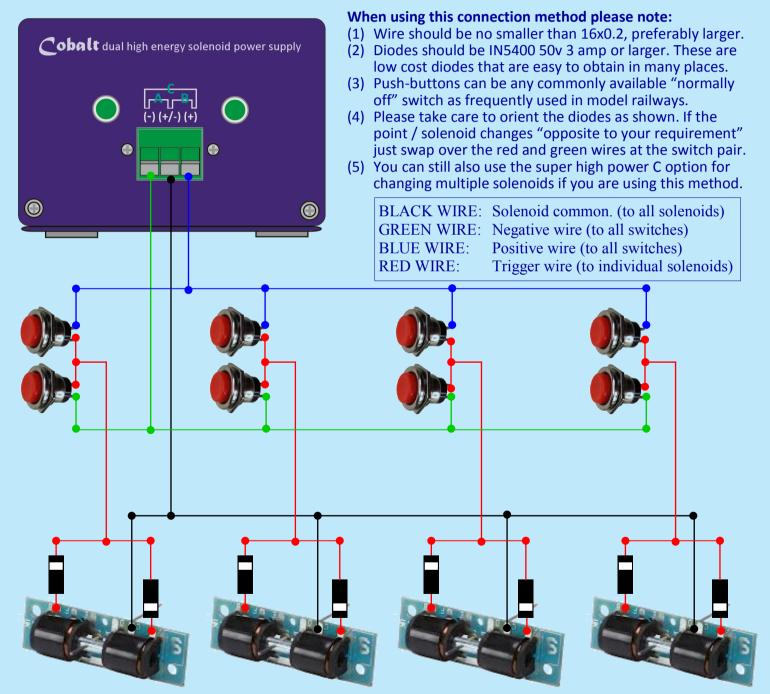


This example was created using PECO PL10 solenoids, however connections are similar for all brands of 2-coil solenoids. Please follow the instructions that were supplied with your chosen solenoid brand for the exact position of connections.





Cobalt Cdu2+ is very easy to wire: this is an optional way you can do it - with only TWO wires to be connected to each point motor thanks to the help of some diodes.

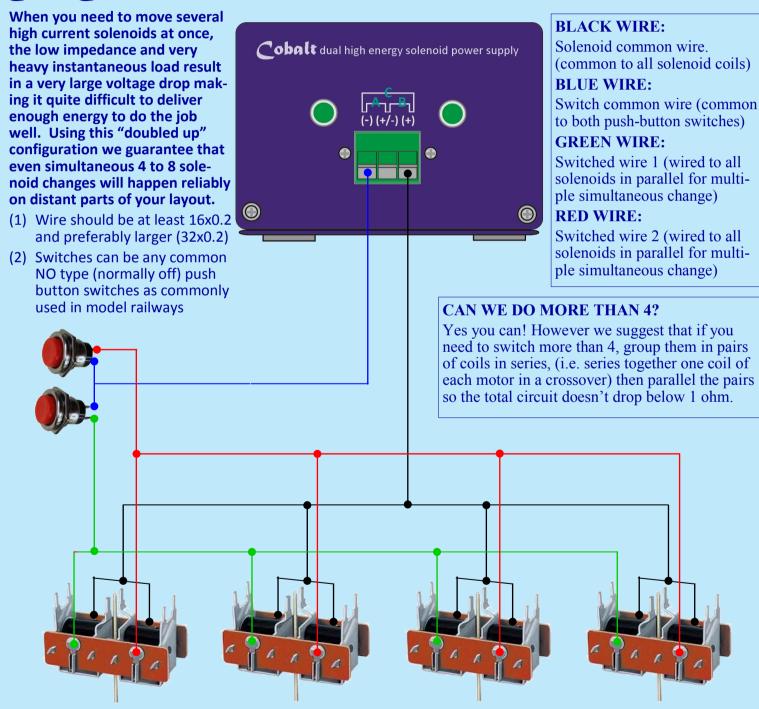


This example was created using SEEP brand solenoids. However connections are similar for all brands of 2-coil solenoids. Please follow the instructions that were supplied with your chosen solenoid brand for the exact position of connections.





Cobalt Cdu2+ "High Energy" mode can deliver even more power easily & reliably.



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Cdu2+ Warranty and Service

CDU2 meets all required standards for sale in the United Kingdom, Australia, Europe and New Zealand. CDU2+ is made using high quality parts and is guaranteed for 12 months from the date of purchase. Should you experience any problems please disconnect the CDU2+ from the mains power and first check the condition of both the power lead and the mains fuse.

This product is not user serviceable, so if fuse or lead replacement do not remedy the problem, or your CDu2+ has suffered physical damage in any other way please contact us or our distributors. Under no circumstances should unqualified persons attempt service of this mains-powered device.

Spare parts and any required servicing are available via DCCconcepts or from our United Kingdom distributors Gaugemaster Controls Ltd who are also equipped to carry out any required servicing.

| Notes: | |
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Do you need more assistance or guidance?

the best of everything

We are always happy to assist modellers in any way we can to help them get the best from any of our products, so if you need advice, help or further information at any time, please feel free to contact us at questions@dccconcepts.com (due to time zone changes please allow up to 48hrs for our response)

