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DCCconcepts Ltd, Unit E, the Sidings, Settle BD24 9RP

Telephone is (+44) 01729 821 080. Our UK Email address is salesuk@dccconcepts.com

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## Cobalt-SS is now in stock & ready for your layout

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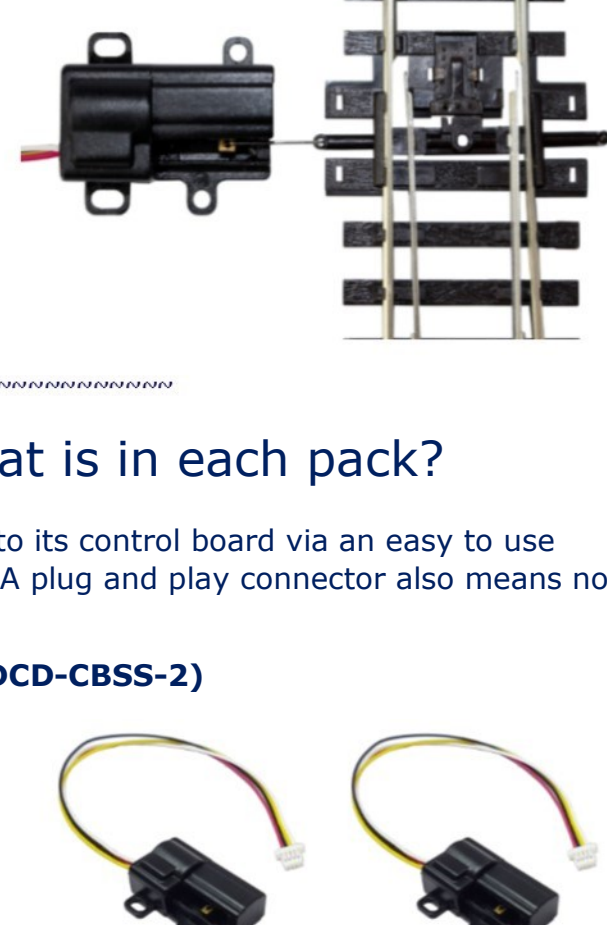
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The concept was to create a top quality turnout motor for surface mounting. Making it easy to install and small enough to keep it subtle and easy to hide was essential.

To meet our goals it also needed to be easy to control, be almost silent, work in most scales and be usable out of the box by DC and DCC modellers with nothing else to buy.

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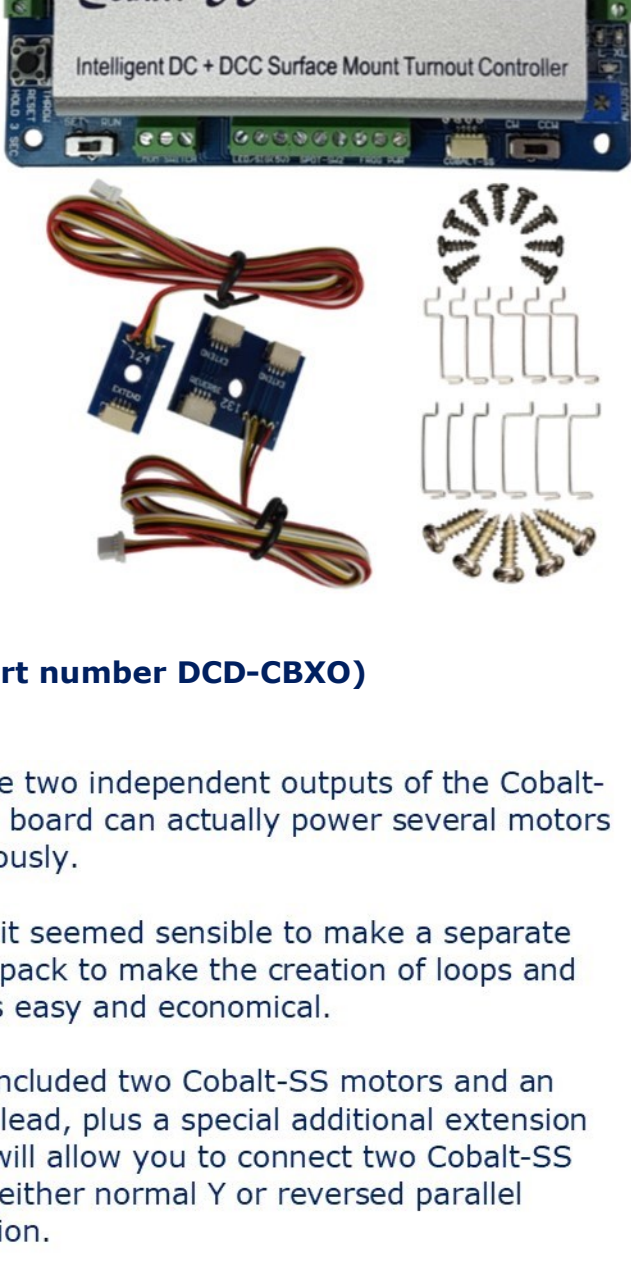
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Each control board has two independent control outputs, so the basic pack contains two Cobalt-SS motors and one control board, plus all of the screws and linkages that you will need to install them and connect them to your point-work.

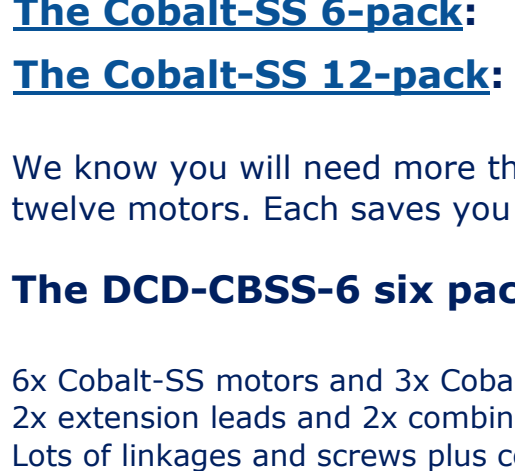
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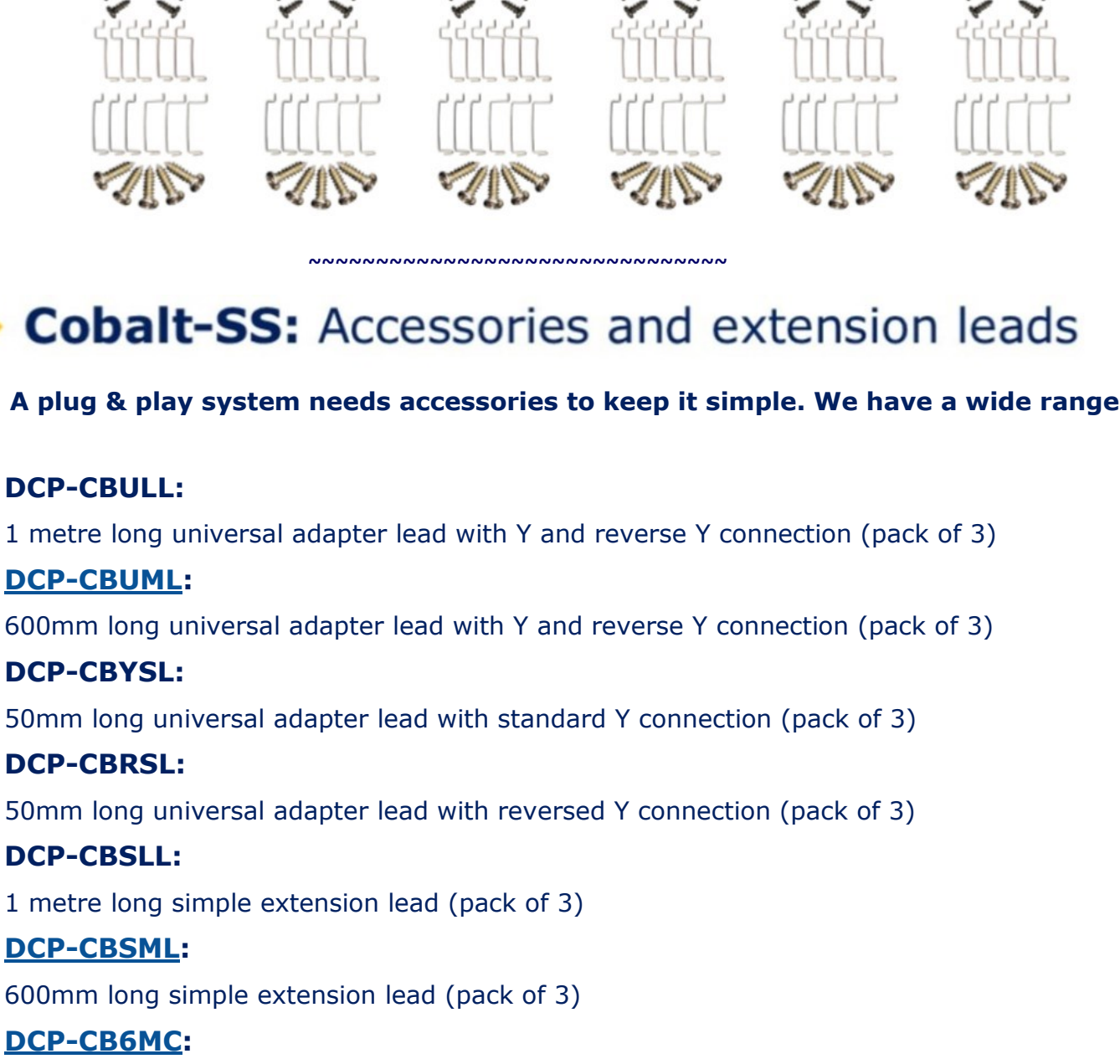
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Lots of linkages and screws plus comprehensive instructions

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6 metre length of Cobalt-SS 4-wire colour-coded cable with heat-shrink to cover joints. (Very economical, but requires cutting of Cobalt-SS leads and soldering)

## Cobalt-SS: How it connects.

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The connections shown are for one side only of course - they are also mirrored on the top of the control board.

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### Cobalt-SS

#### Installing, Connecting and Adjusting your Cobalt-SS Motors

A clear, visual indication helps, so here's another diagram with Cobalt-SS plus all of the wires & accessories connected. We have also added additional information where a more detailed explanation will be helpful.

*Please note: We have used variants of Green, Red and Blue/Black to represent the added wires. Your wire choice is up to you!*

**When you wire, please read the manual then also read the print on the PCB as you insert the wires. With all the information also printed onto the PCB at every connection point, you should find it easy to get it all right first time!**

**We've shown only 1 set of connections: A Cobalt-SS Control Board can control 2 separate DCC addresses & several motors!**

**11** The Reset button. Just hold it down for 3 seconds. Cobalt-SS will then return to its ex-factory settings!

**1** Power IN from the DCC track power bus OR the regulated DC Power Supply if you do not use DCC!

**3** The easy to understand "Set-Run Switch" for setting the address. See below for a step by step instruction

**4** Pushbutton switches (or our Cobalt-S Levers). This gives you DCC-Digital & manual point control too.

**5** Panel LEDs, computer IO indication or 2-light signals!

**6** A spare SPDT switch can do many things. Here we have connected it to two isolated sections ahead of the Heel of the point and wired it so that if the point is not set for the train to cross safely, power to that section will be turned off. This will prevent accidental derailments and the inevitable short-circuits that will otherwise occur!

**9** To adjust the throw, adjust with a small cross-type screwdriver.

**10** These indicator LEDs show you the distance you set.

**1** Power Link: If you have several Cobalt-SS control boards, you can just "Daisy-Chain" them together with these terminals.

**8** To "Swap over" the Cobalt-SS throw direction, just change this switch.

**2** Connecting the Cobalt-SS is easy! Just plug it into the socket provided! Each output CAN control more than one!

**7** Cobalt-SS has "no frog" polarity switches built in too so there is no need for you to add anything else. There is no complicated wiring so electrofrog or "Live Frog" points are now much easier to use!

### Cobalt-SS

#### Teaching your Cobalt-SS Motor it's new address and adjusting the throw distance

Setting the DCC Address of your Cobalt-SS Motor:

There are NO Complex DCC-digital commands or CVs to remember. Please use these instructions, not the accessory decoder instructions that are supplied with your DCC system.

**SET -> RUN**

*Please note that if you have a screen-based system such as the Roco Z21 or ESU ECoS you will need to create a track diagram or set up an on-screen turnout before you can set an Address.*

- Connect your Cobalt-SS to the DCC track power bus or your dedicated DCC Accessory Power Bus.
- Decide which number you wish Cobalt-SS to use and then move the Set-Run switch to the "Set" position.
- Follow your DCC system instructions for changing a point or turnout using the number that you chose. (We repeat this procedure twice just to be sure)
- Return the Set-Run switch to the "Run" position.
- Repeat 3 and Cobalt-SS will respond to that address.

Adjusting the throw distance of a Cobalt-SS Motor:

All you will need to do is watch this set of six LEDs marked S - M - L - XL to clearly indicate the set position. As you GENTLY adjust the position of this with a fine "+" type screwdriver!

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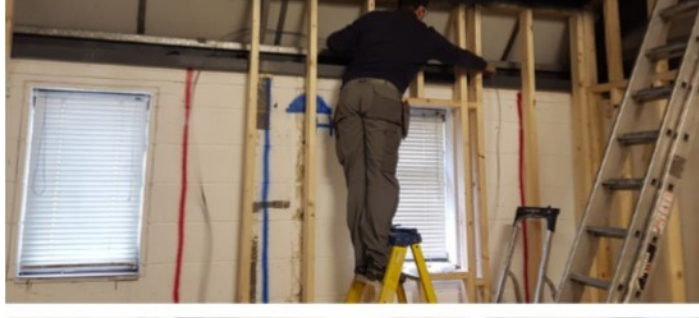
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**We trust you enjoyed our newsletter.**

Now we are at last able to work in and enjoy a nice environment, we hope to write more often.

We would like you to look forward to their arrival so if you have suggestions, requests, criticisms or want to comment on anything, please feel free to do so.

We may even include your contribution in the next one!

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Kind regards

*Richard Johnson* and all of the staff at DCCconcepts

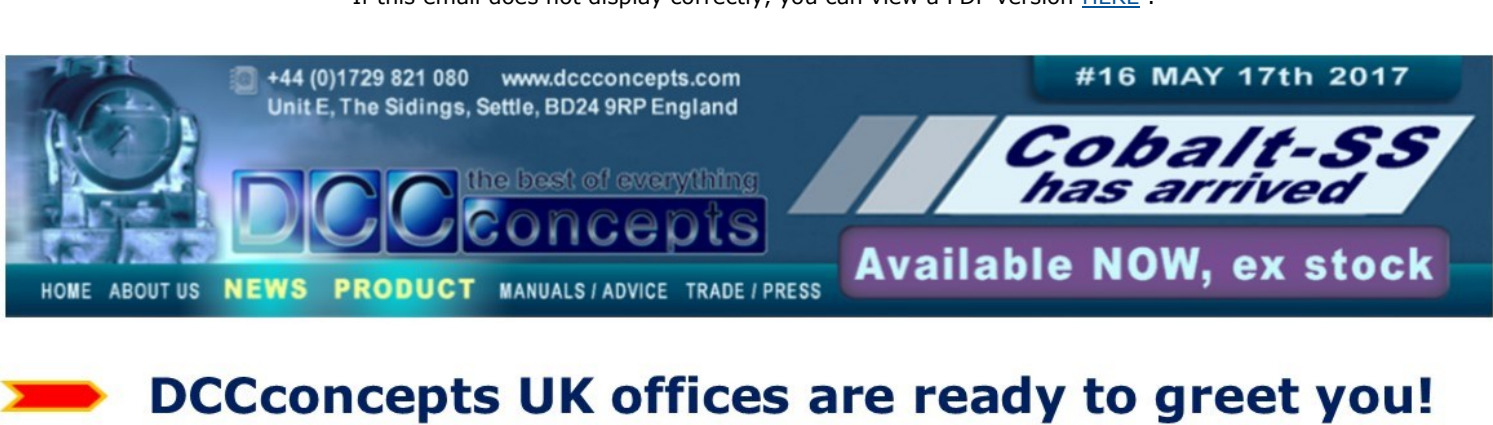


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We hope you found this message to be useful.

However, if you'd rather not receive future e-mails of this sort from us, please send an email to [web@dccconcepts.com](mailto:web@dccconcepts.com) with the word STOP in the subject line.





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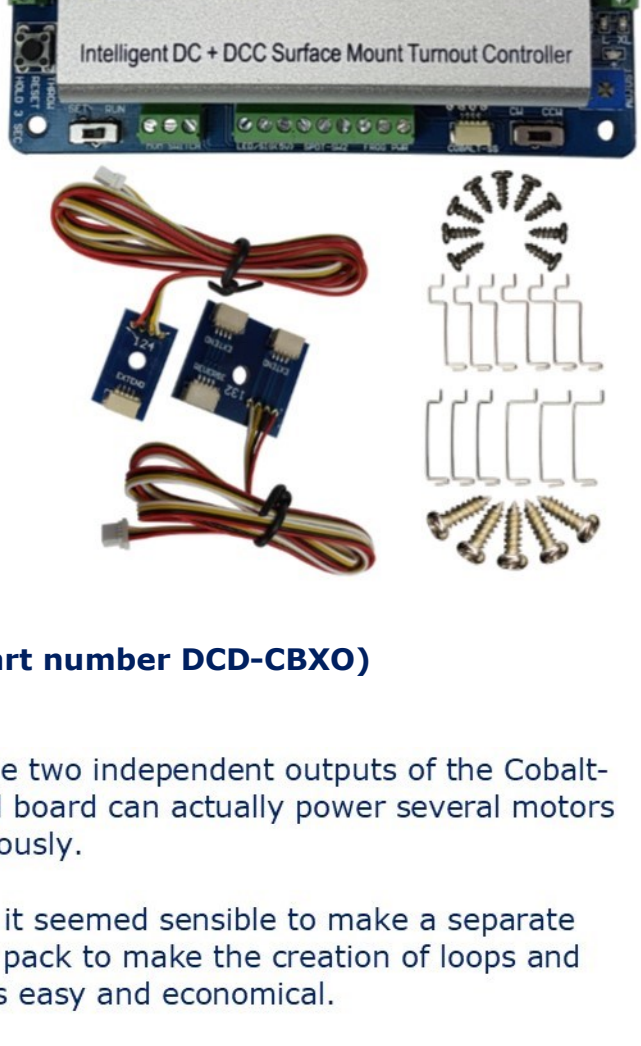
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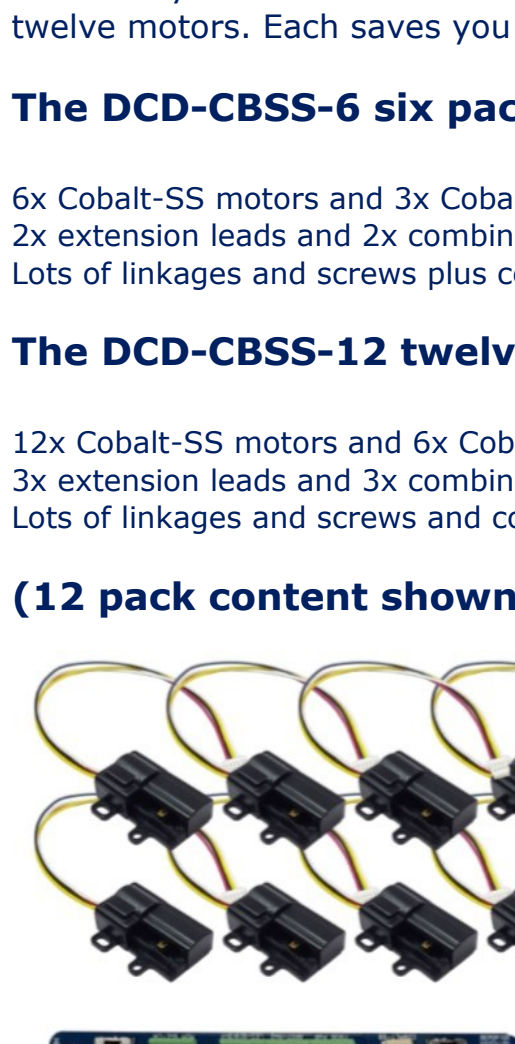
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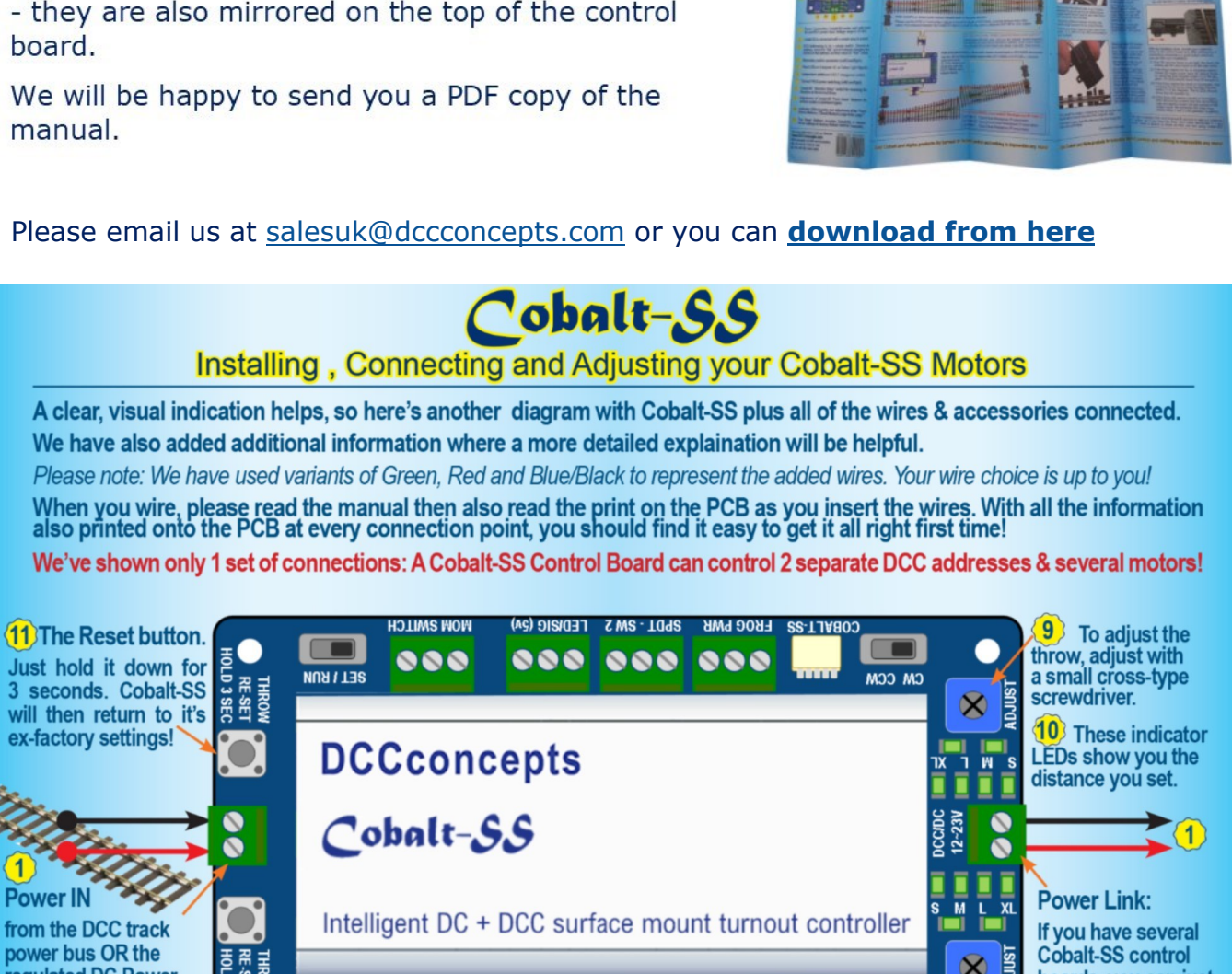
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## Cobalt-SS: Accessories and extension leads

**A plug & play system needs accessories to keep it simple. We have a wide range.**

### DCP-CBULL:

1 metre long universal adapter lead with Y and reverse Y connection (pack of 3)

### DCP-CBURL:

600mm long universal adapter lead with Y and reverse Y connection (pack of 3)

### DCP-CBYSL:

50mm long universal adapter lead with standard Y connection (pack of 3)

### DCP-CBRSL:

50mm long universal adapter lead with reversed Y connection (pack of 3)

### DCP-CBSLL:

1 metre long simple extension lead (pack of 3)

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### DCP-CB6MC:

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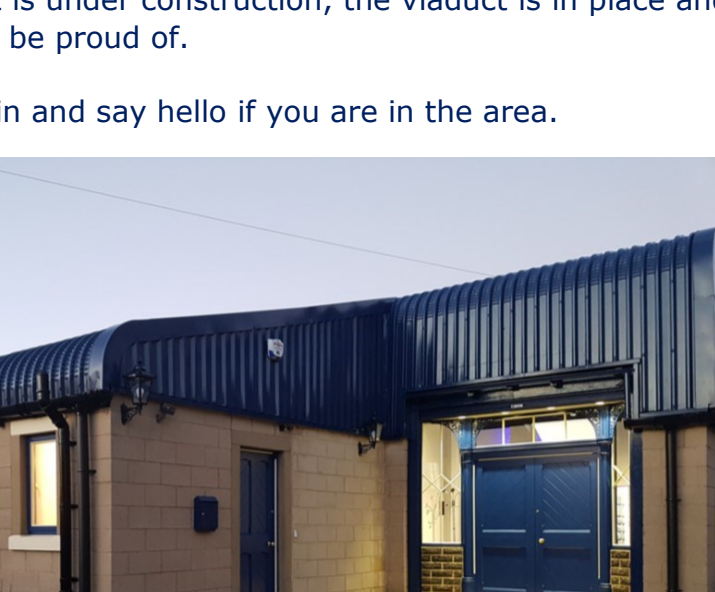
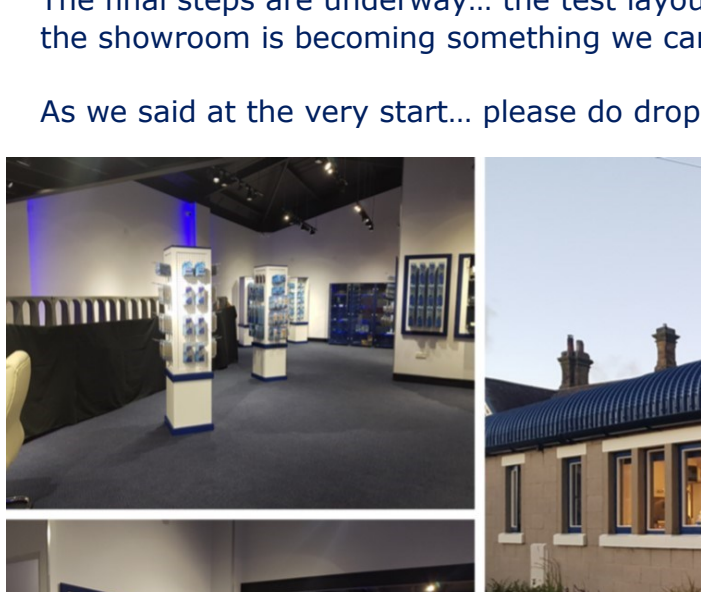
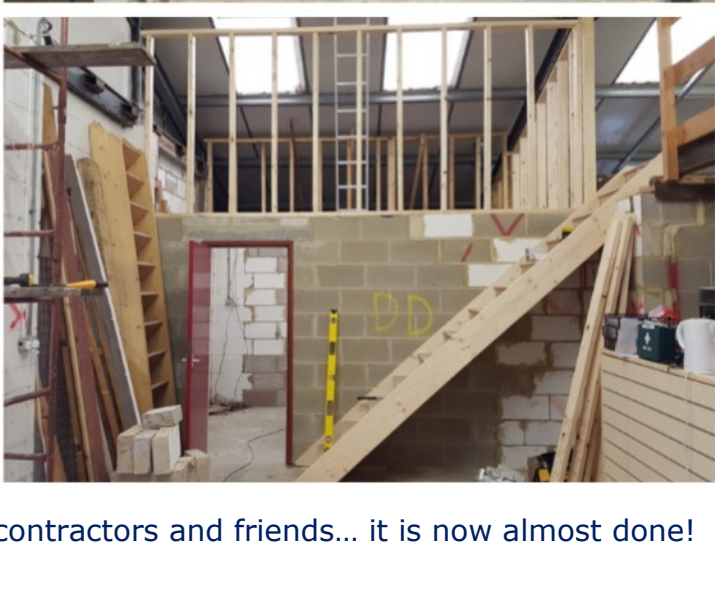
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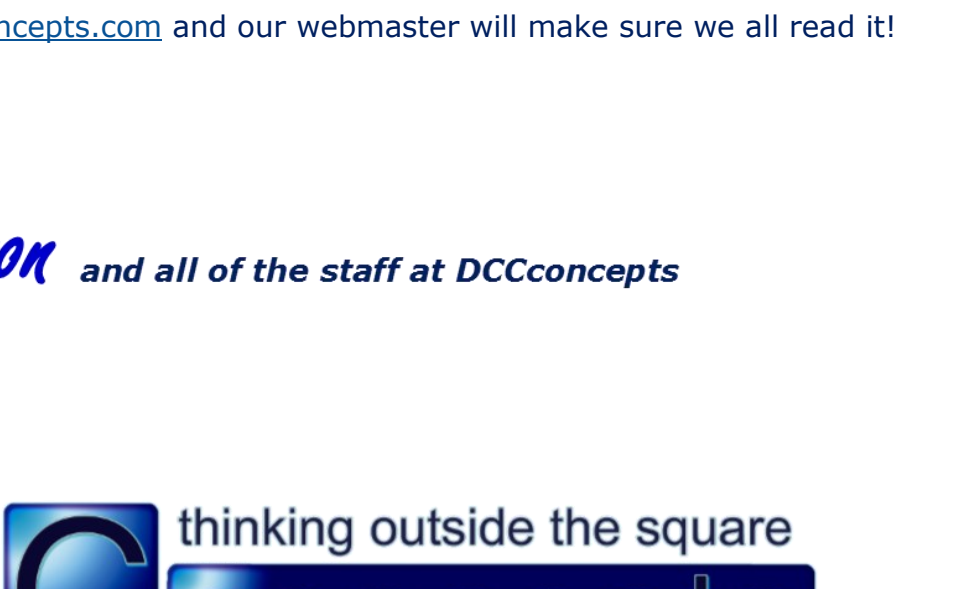
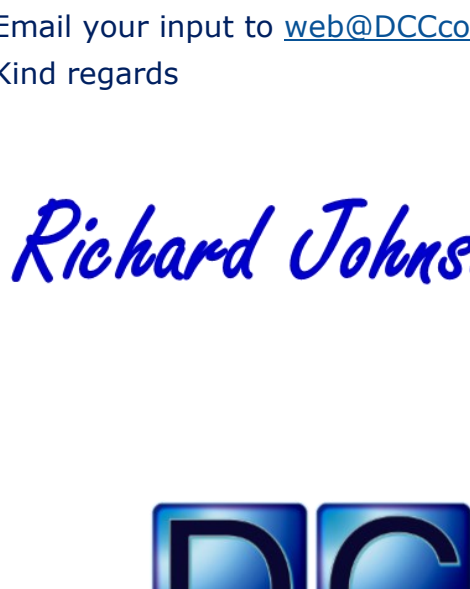
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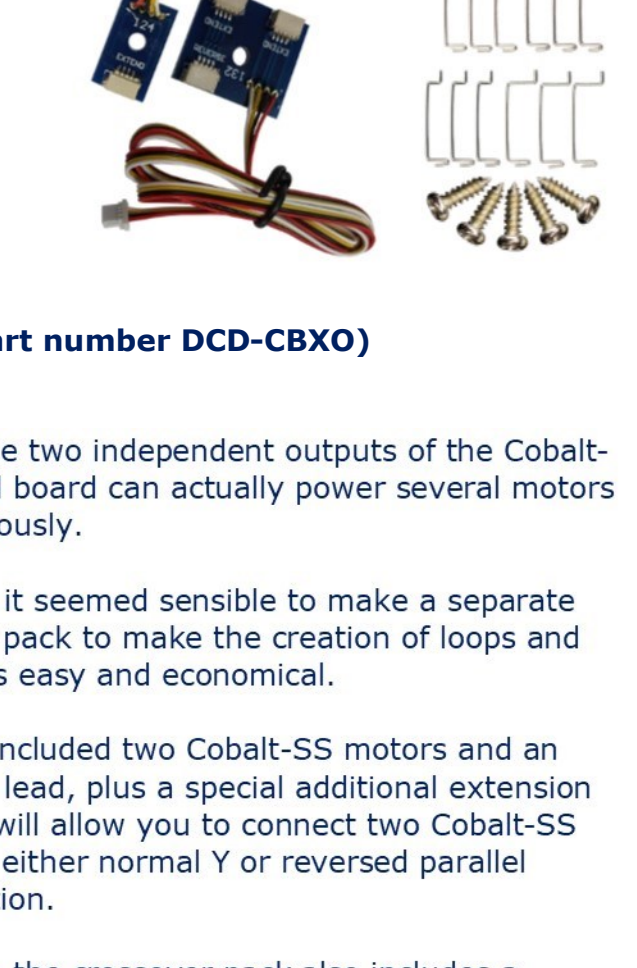
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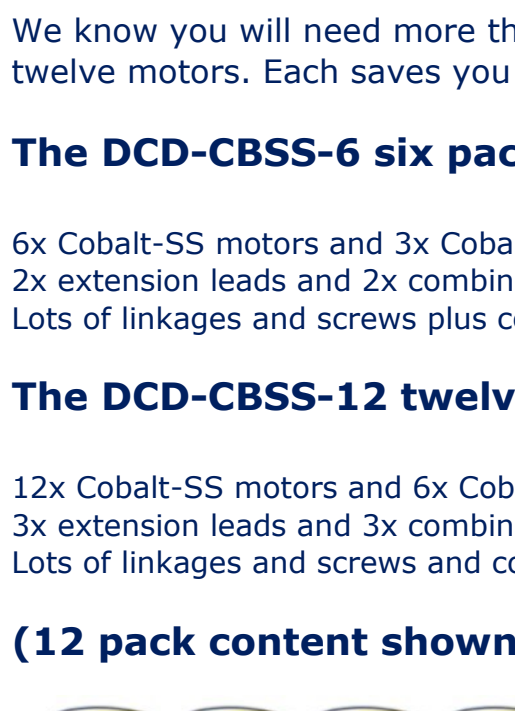
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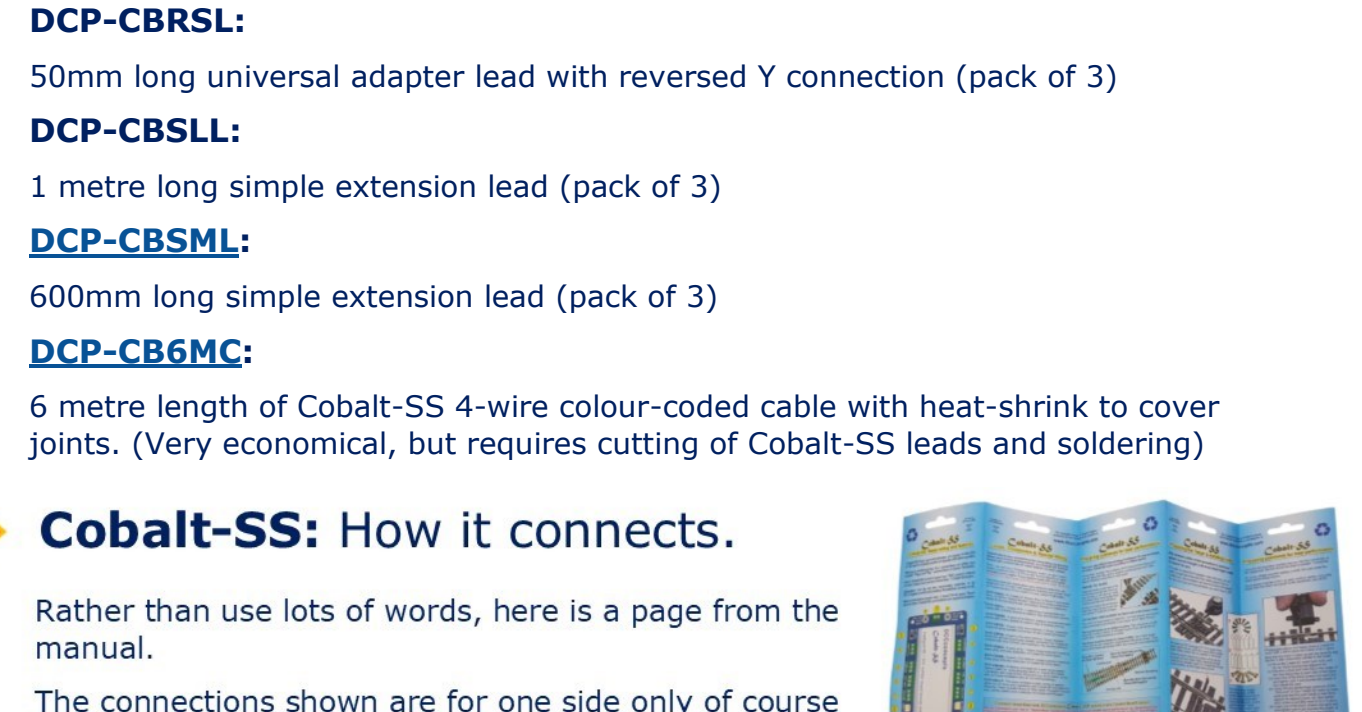
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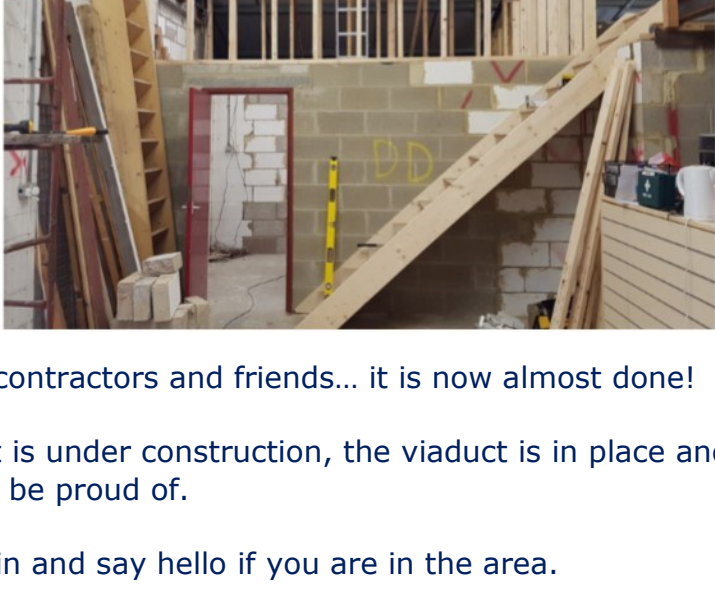
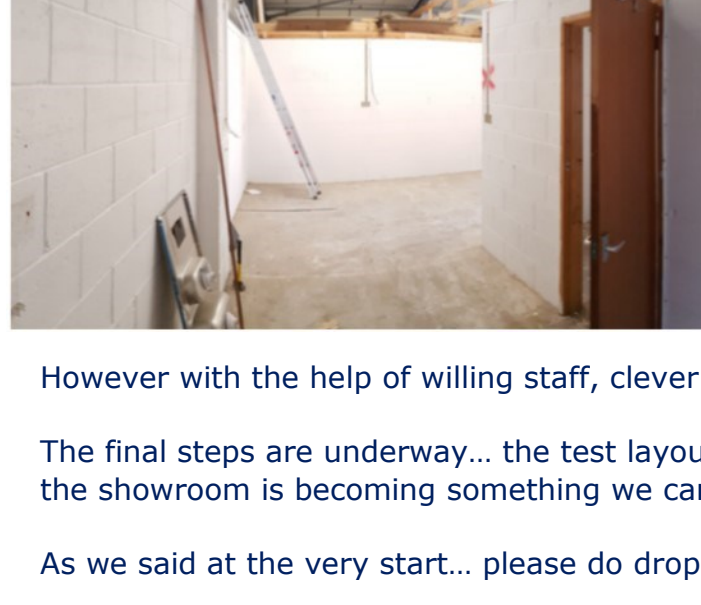
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Continued from page 1

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**It's taken a long time & lots of hard work by our staff but we are ready to go.**

Our offices in North Yorkshire are in full operation, and we are now working on our new demo and showroom layout that will include sections laid with Legacy bullhead track AND a full length model of Ribbleshead viaduct 6 metres long!

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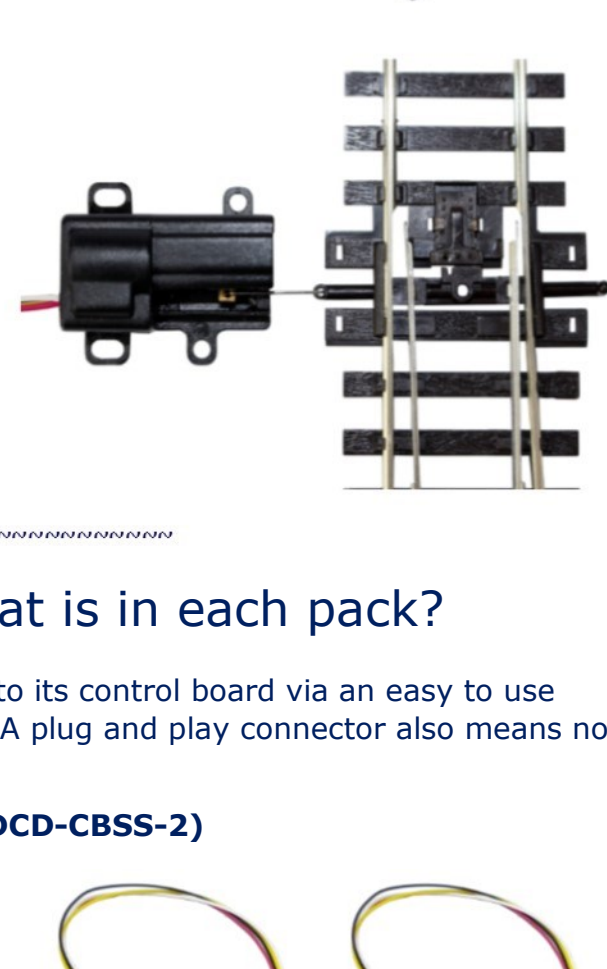
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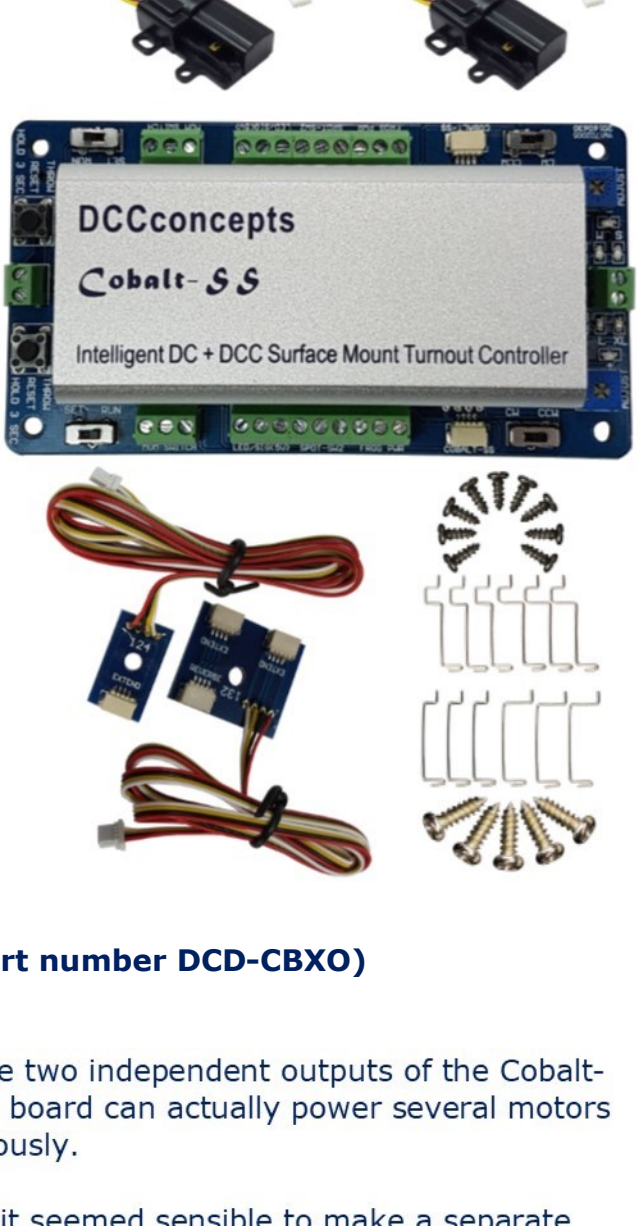
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Each control board has two independent control outputs, so the basic pack contains two Cobalt-SS motors and one control board, plus all of the screws and linkages that you will need to install them and connect them to your point-work.

Because each output can connect to more than one motor (making use of Cobalt-SS very economical for crossovers and loops) we also include a combination Y-connector lead and "direction change" lead plus an extension lead in each 2-pack.

Additionally, we have added a bonus with every motor pack. This is a very nicely scaled model of a Westinghouse EP point motor, as used by the prototype in many parts of the world including UK, USA, parts of Europe, Australia and many others. Because we cannot know your choice of modelling scale, we have included examples of N, OO/HO and O scale motors!

Very comprehensive instructions are included. The instructions explain the whole process of installation and feature clear diagrams.



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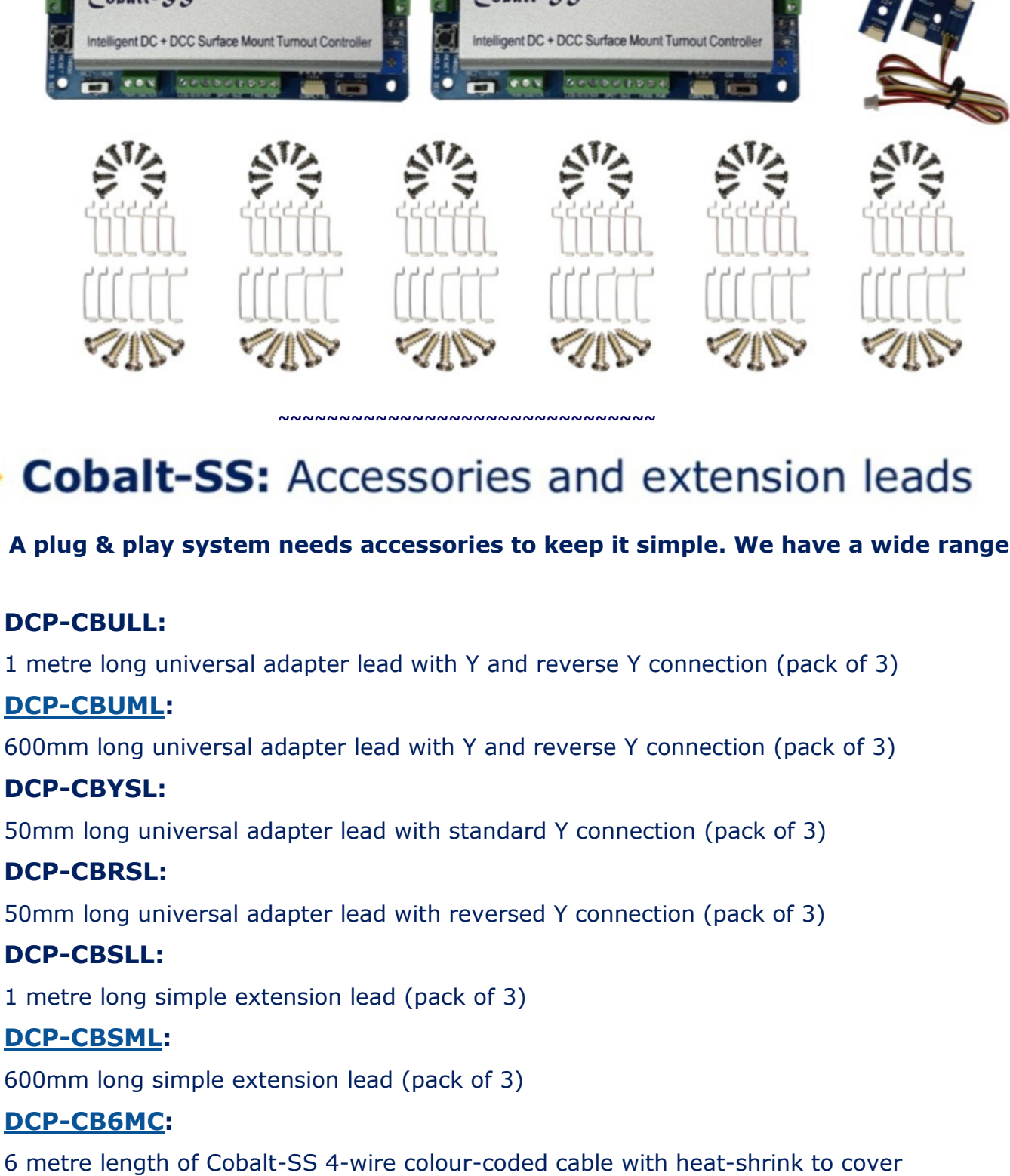
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Cobalt-SS: Accessories and extension leads

A plug & play system needs accessories to keep it simple. We have a wide range.

DCP-CBULL:

1 metre long universal adapter lead with Y and reverse Y connection (pack of 3)

DCP-CBURL:

600mm long universal adapter lead with Y and reverse Y connection (pack of 3)

DCP-CBYSL:

50mm long universal adapter lead with standard Y connection (pack of 3)

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DCP-CBSLL:

1 metre long simple extension lead (pack of 3)

DCP-CBSML:

600mm long simple extension lead (pack of 3)

DCP-CB6MC:

6 metre length of Cobalt-SS 4-wire colour-coded cable with heat-shrink to cover joints. (Very economical, but requires cutting of Cobalt-SS leads and soldering)

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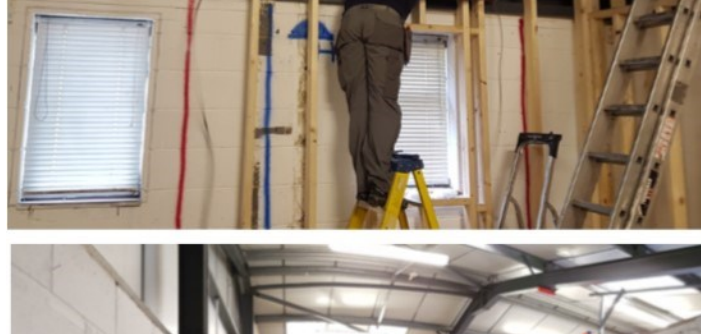
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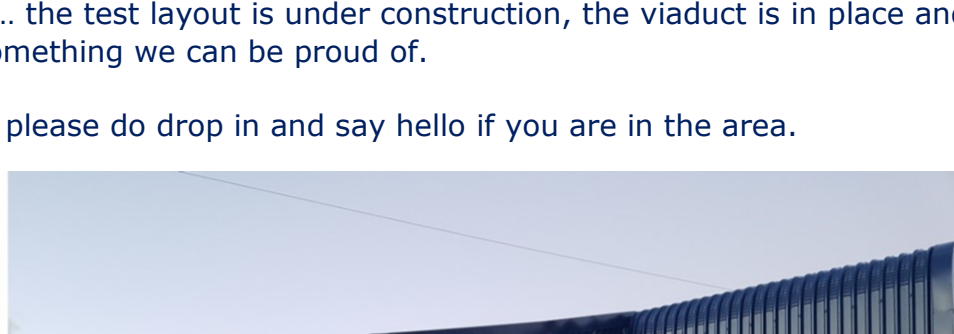
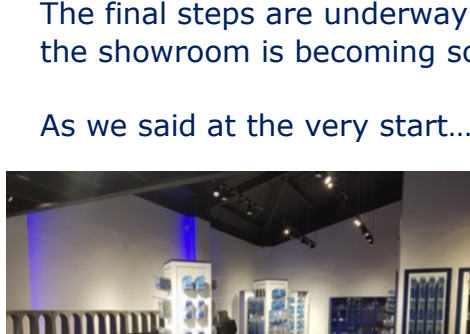
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DCCconcepts thinking outside the square

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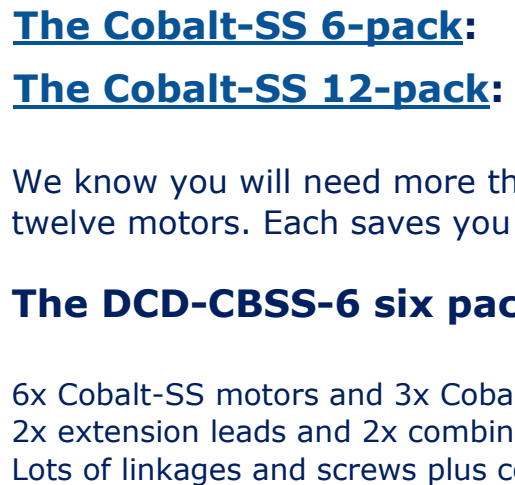
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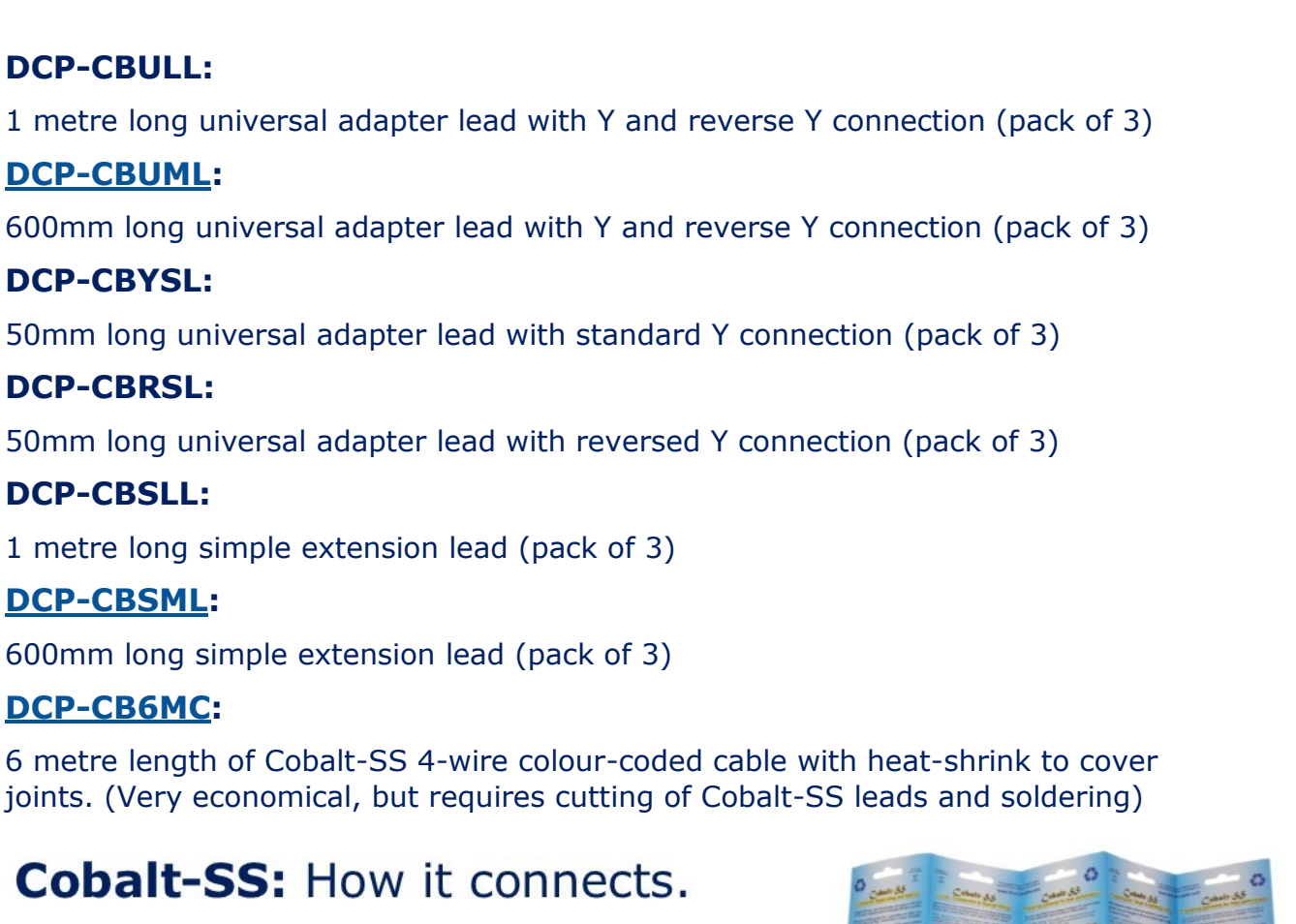
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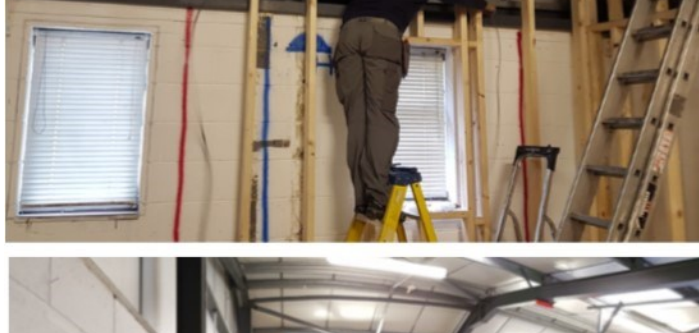
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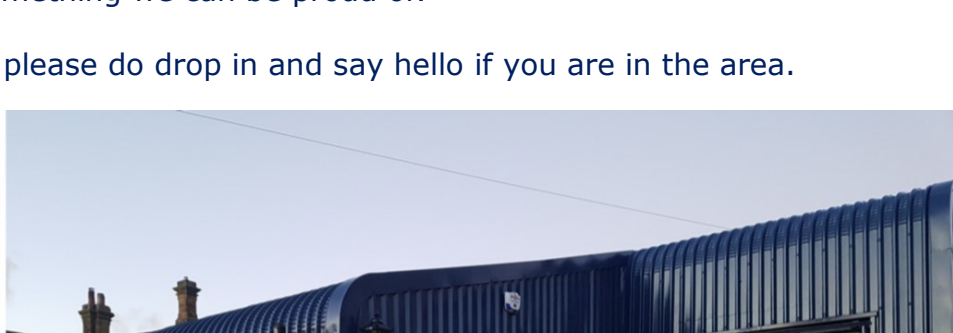
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