Cobalt iP Analog , AD1HP and a 3-way with LED warnings for illegal routes
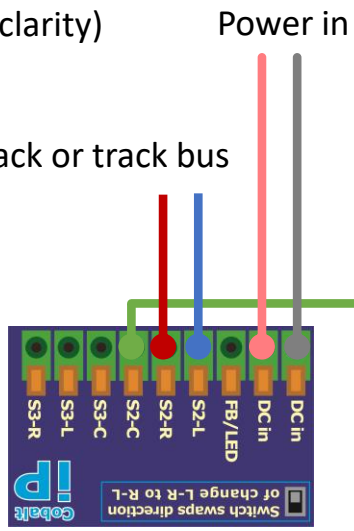
The same principle applies to AD-8 accessory decoders

Frog Wiring

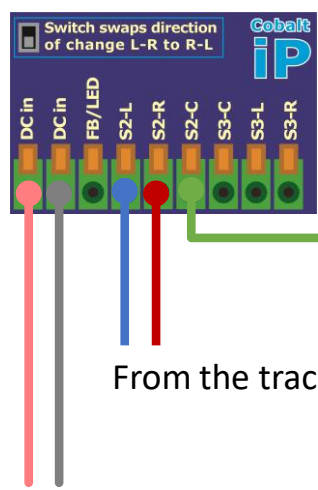(Both DCD-AD1HPs omitted for clarity)

Power in

From the track or track bus

LEFT ROUTE

STRAIGHT ROUTE

RIGHT ROUTE

2

Cobalt **iP**
Switch swaps direction of change L-R to R-L

S3-R S3-L S3-C S2-C S2-R S2-L FB/LED DC in DC in

DCP-CB1iP

1

Switch swaps direction of change L-R to R-L   Cobalt **iP**

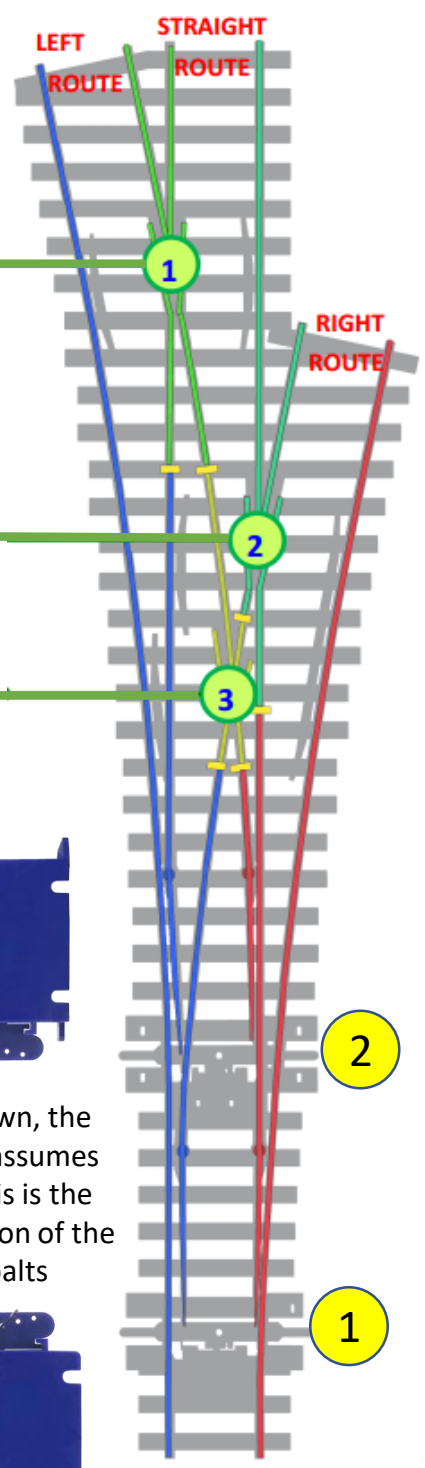DC in DC in FB/LED S2-L S2-R S2-C S3-C S3-L S3-R

From the track or track bus

Power in

The orientation of the Cobalt will affect the wiring. If the frog is the wrong polarity, swap **S2-L** and **S2-R**

As shown, the wiring assumes that this is the orientation of the Cobalts
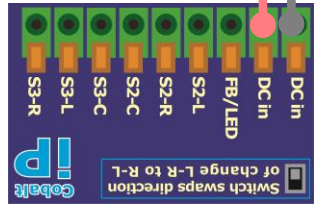
Originally drawn for John F

Furthest diamond frog is same as point frog

Cobalt iP Analog , AD1HP and a 3-way with
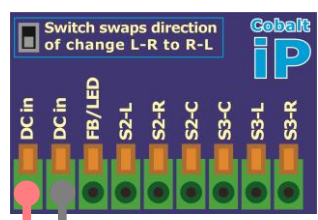# LED warnings for illegal routes

LED Wiring

DCD-AD1HP

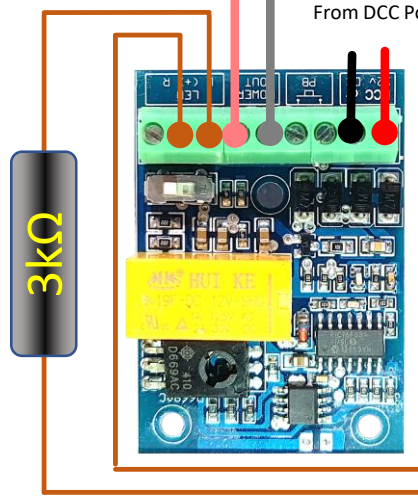Track Power input to S2-L & S2-R and Frog power on both Cobalts omitted for clarity

From DCC Power bus (Track Bus or Accessory Bus)
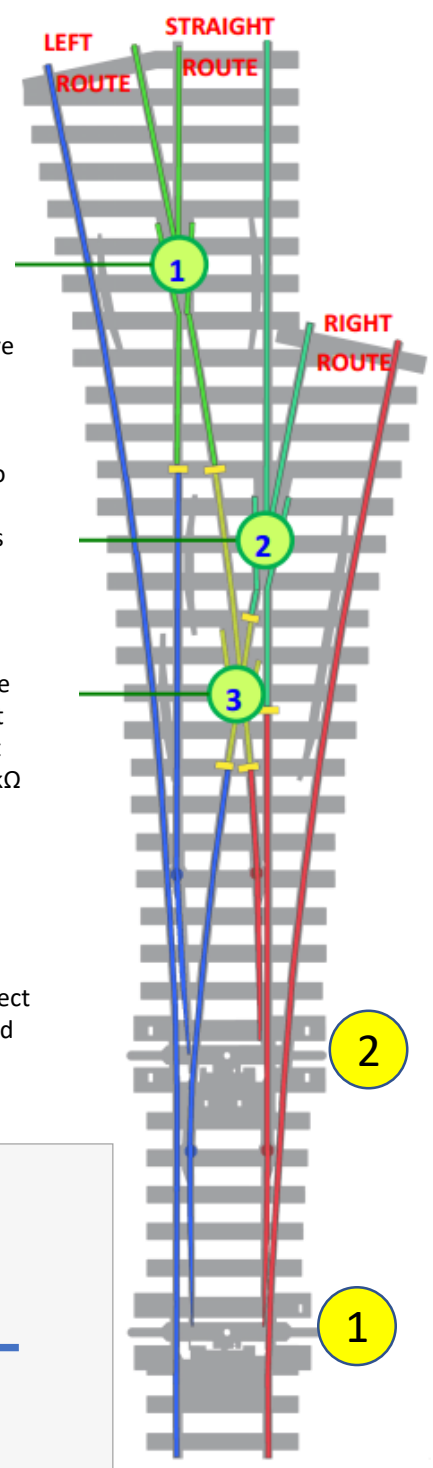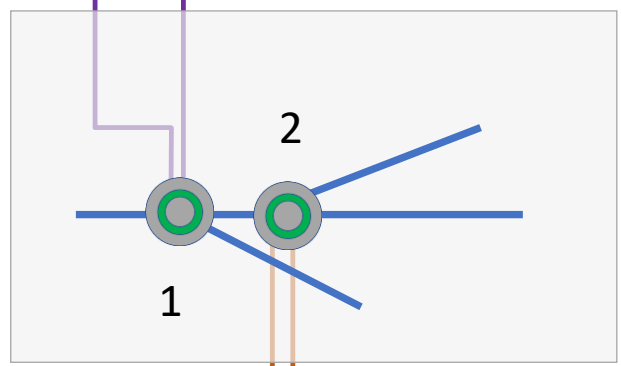
2

1

LEFT
ROUTE

STRAIGHT
ROUTE

RIGHT
ROUTE

On both LED outputs, move this wire to the other (unused) connector if the LED does not illuminate when that turnout is set to AHEAD.
Both AHEAD = Two Greens

1

2

3

3kΩ

Resistor values are indicative – adjust for brightness but never less than 1kΩ

The centre LED output is positive and so must connect to the positive lead of the LED

From DCC Power bus

2

2

3kΩ

1

1

2

Green LED illuminates if it is OK to that change turnout

DCCconcepts Ltd, Unit E, The Sidings, Settle, BD24 9RP, United Kingdom *www.dccconcepts.com * +44 (0) 1729 821 080 * salesuk@dccconcepts.com

2