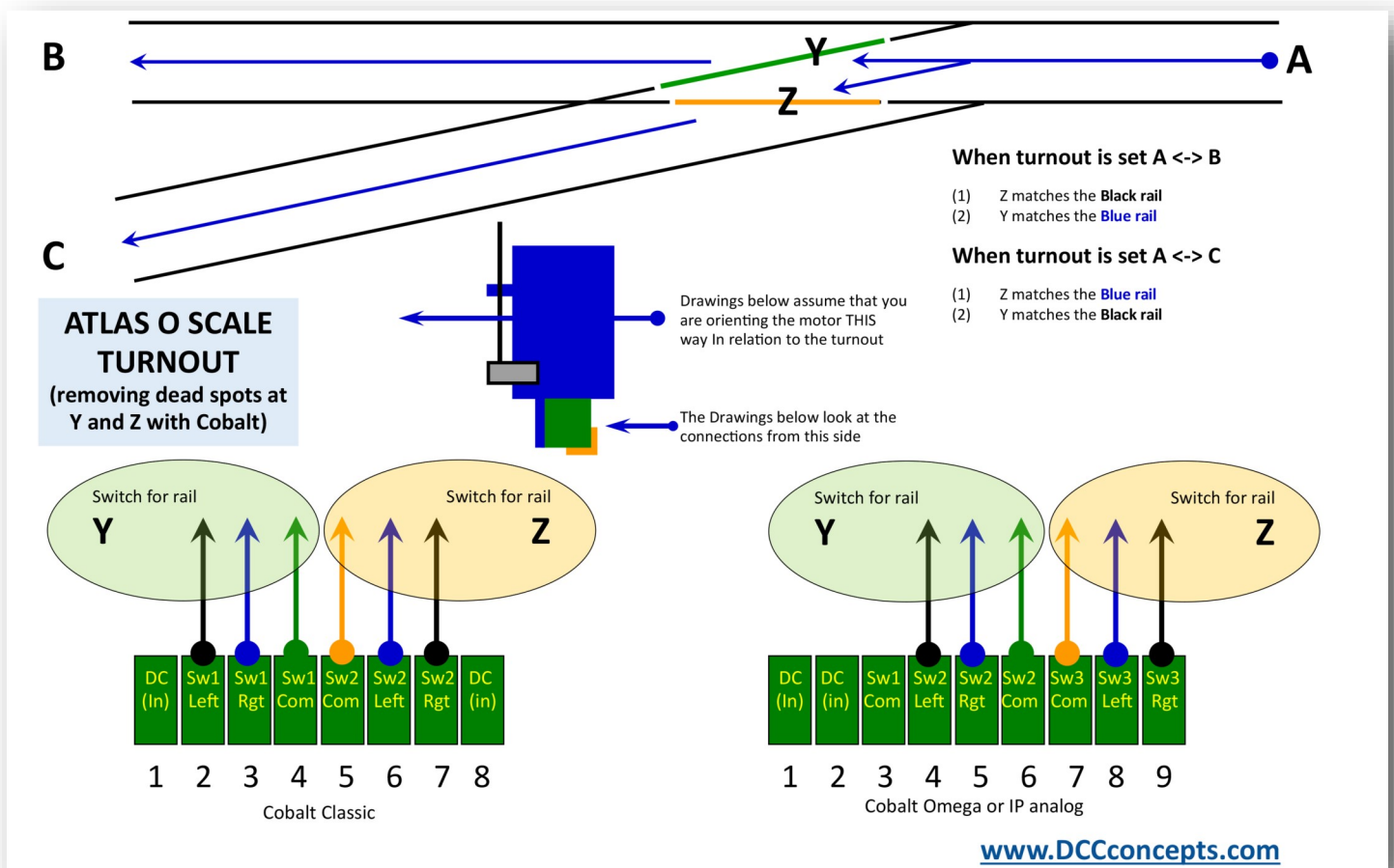# DCCconcepts

thinking outside the square

concepts

DCCconcepts TIPS: Fixing the dead spots in ATLAS 3-rail O scale turnouts

Using COBALT Omega or iP Analog to take away the dead spots in O scale 3-rail turnouts. (this tip is based on Atlas O scale 3-rail turnouts, but works for others)

In order to prevent short circuits between centre and outer rails, Atlas have created dead areas in the running rails. These are really long in the curved turnouts but the gaps exist in all of them.

- **They aren't always an issue, but cause stalling when small locos are run at slow speeds.**
- **This is how to fix them by powering both the turnouts and switching the rails using our DCCconcepts Cobalt iP Analog or Omega Ω motors to give continuous power at all times.**

Not using Atlas? That's OK, the same principals will work with ALL 0 scale 3-rail turnouts.

When turnout is set A <-> B

(1) Z matches the **Black rail**
(2) Y matches the **Blue rail**

When turnout is set A <-> C

(1) Z matches the **Blue rail**
(2) Y matches the **Black rail**

ATLAS O SCALE TURNOUT
(removing dead spots at Y and Z with Cobalt)

Drawings below assume that you are orienting the motor THIS way In relation to the turnout

The Drawings below look at the connections from this side

Switch for rail **Y**

Switch for rail **Z**

DC (In)	Sw1 Left	Sw1 Rgt	Sw1 Com	Sw2 Com	Sw2 Left	Sw2 Rgt	DC (in)
1	2	3	4	5	6	7	8

Cobalt Classic

Switch for rail **Y**

Switch for rail **Z**

DC (In)	DC (in)	Sw1 Com	Sw2 Left	Sw2 Rgt	Sw2 Com	Sw3 Com	Sw3 Left	Sw3 Rgt
1	2	3	4	5	6	7	8	9

Cobalt Omega or IP analog

www.DCCconcepts.com

Click on any picture to be linked to more information