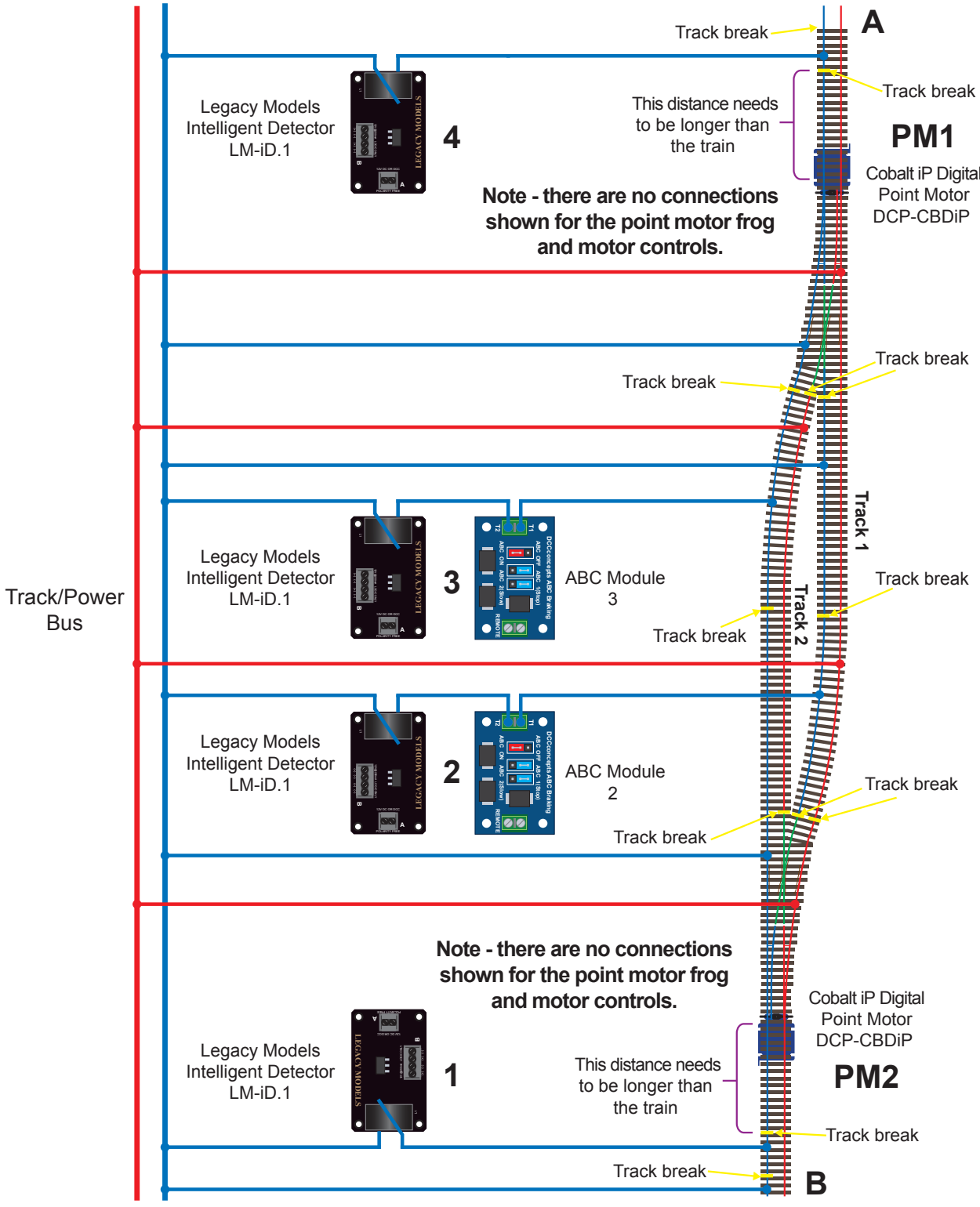
LAYOUT CONCEPTS

Automatic Passing Loop Using ABC Control & LM-iD Block Detectors & Cobalt iP Digital Point Motors - Page 01

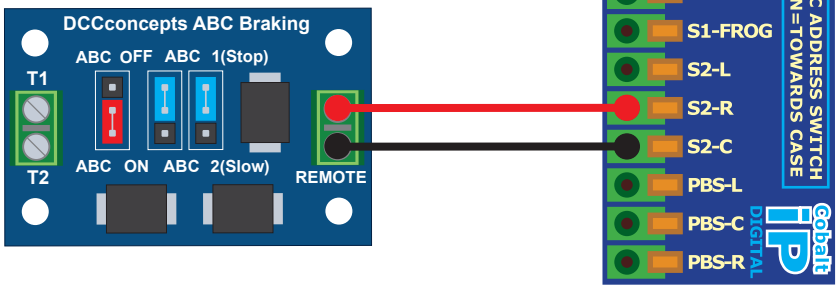


LAYOUT CONCEPTS

Automatic Passing Loop Using ABC Control & LM-iD Block Detectors & Cobalt iP Digital Point Motors - Page 02

Point Motors to the ABC Module Connections

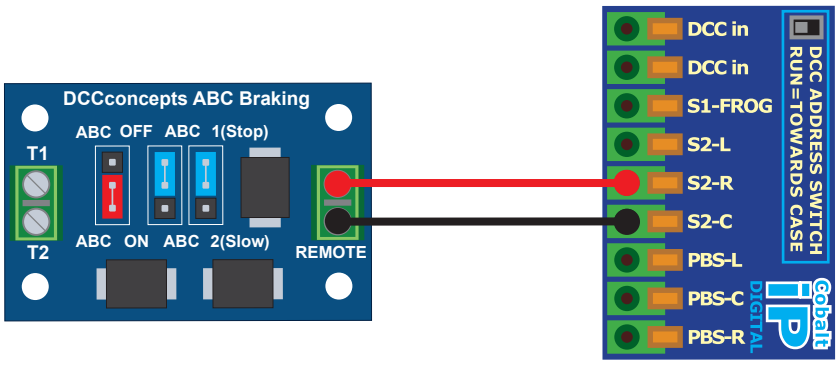
ABC Module 3



PM1

Cobalt iP Digital Point Motor DCP-CBDiP

ABC Module 2



PM2

Cobalt iP Digital Point Motor DCP-CBDiP

When Point Motor 1, **PM1** is set to **TRACK 1**, the ABC module is **ACTIVE.** i.e. Contact from **S2-C / S2-R** is **OPEN CIRCUIT.**

If this is incorrect, swap **S2-R** to **S2-L.**

Similarly, for Point Motor 2, **PM2**, when set to **TRACK 2**, the ABC Module is **ACTIVE.**

If this is incorrect, swap **S2-R** to **S2-L.**

LAYOUT CONCEPTS

Automatic Passing Loop Using ABC Control & LM-iD Block Detectors & Cobalt iP Digital Point Motors - Page 03

General Notes

Please note - the end reverse sections via a ABC modules are not shown.

Train 1 sets off from end **A** into **TRACK 1** and may **STOP** if **ABC Module 2** is **ACTIVE**.

The train will operate **LM-iD 2** and set the point motor 1, **PM1** to **TRACK 2** and **DEACTIVATES ABC 3**.

Train 2 sets off from end **B** into **TRACK 2** and may **STOP** if **ABC module 3** is **ACTIVE**.

The train will operate **LM-iD 3** and set the point motor 2, **PM2** to **TRACK 2** and **DEACTIVATES ABC 2.**

When the respective ABC units are **DEACTIVATED**, the trains will continue out of the loop and **RESET** the point behind them.
i.e. **LM-iD 1** will **SET** point motor 2, **PM2** to **TRACK 2**
LM-iD 2 will **SET** point motor 1, **PM1** to **TRACK 1**

Trains will reverse at the end sections and the sequence will continue.

CV Settings:
CV27 = 4
CV56 = 1
CV59 = 1 - 10 second delay at the end of the track, 2= 20 second delay etc.

LAYOUT CONCEPTS

Automatic Passing Loop Using ABC Control & LM-iD Block Detectors & Cobalt iP Digital Point Motors - Page 04

LM-iD to Motor Operation

LM-iD Power is either DCC or Regulated DC