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## BD Loops

Installer Newsletter

October 2010

Did You Know



We strive to make our Installer newsletter as informative as possible, if you have any questions or topics you would like to see covered related to inductance loops please do not hesitate to reply to this e-mail or give us a call at: 714-890-1604.

[View Previous Installer Newsletters Here:](#)



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Did you miss our previous newsletters? Learn how to properly meg a loop, or about the importance of 3/16" blades and more!

**Quick Links...**

[BDLoops.com](#)

[BD Loops Lab](#)

[Groove Cleaning Airwand](#)

[Our Products](#)

## Oktoberfest at Tri-Cor October 22nd



**BD Loops** will be teaching a "everything you need to know about loops" class right before the start of Tri-Cor's annual Oktoberfest and pig roast.

Come eat great free food, meet vendors from the gate and door industry, learn about new products, and get your questions answered.

Tri-Cor International  
678 East Western Ave  
Lombard, IL 60148

October 22nd  
10am-3pm

For more information about Oktoberfest please contact Tri-Cor by phone or e-mail.

Phone:

e-mail:

## Loops in Series and Loops in Parallel

Knowing how to hook loops up in series can save you the cost of a detector.

### Loops in Series

If you have multiple loops performing the same function (such as reverse) installed on a gate it is possible to hook both of those loops up to the same detector.

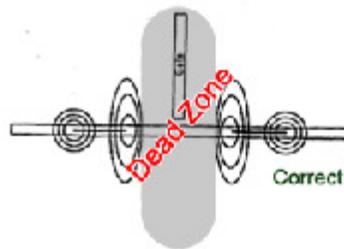
If you are running multiple loops to the same detector the best way to hook them up is in series.

For every loop you add in series it will increase the loop network

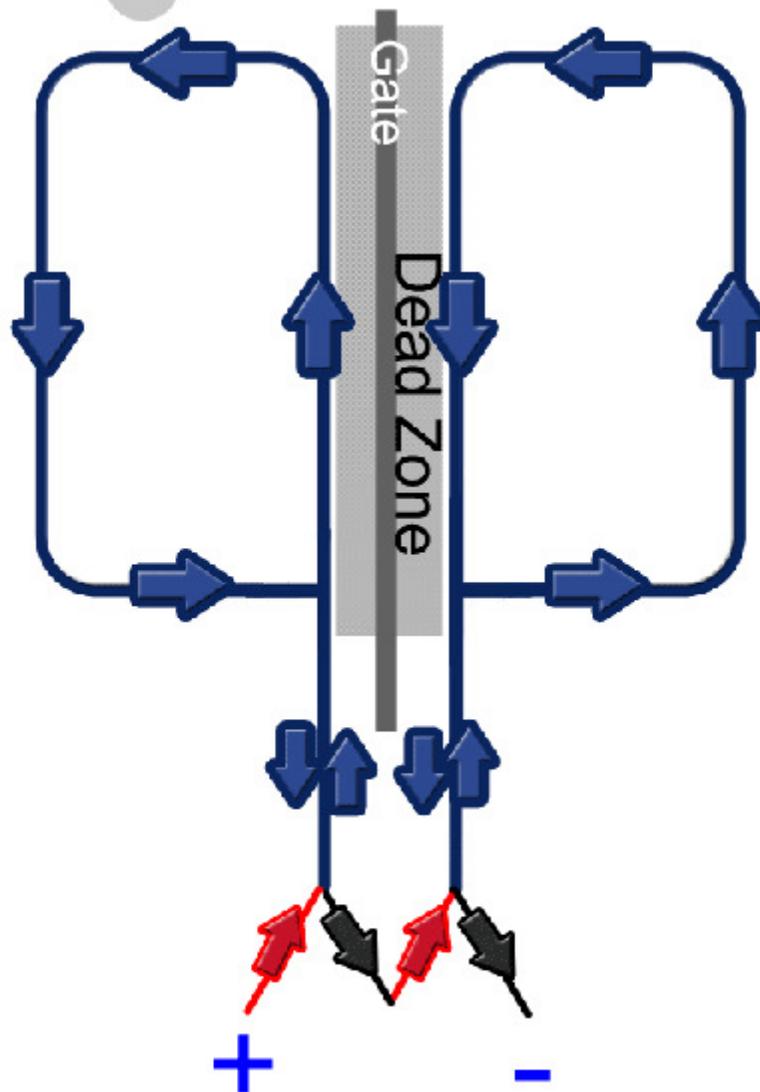
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inductance by 100%. For example 2 loops in series would be 200%)

Look at the way the lead-in wires are connected in the image below:



Loops properly hooked up in series will repel their EMF fields away from each other, creating a dead zone between the loops.



## The flow of current in Loops Hooked in Series

Your connection should look like the one above.

The thick blue arrows along the wire represent the direction of current through out the loop, if both loops have their current running in the same

direction their EMF Fields will repel each other and create a dead zone between themselves where nothing can be detected. This is an example of **Loop Phasing**, it is important to keep in mind that loop phasing only applies to 2 loops performing the same function (such as reverse) on a slide gate or vertical door. Loops should never be closer than 2' on each side of the gate or door.

## Loops in Parallel

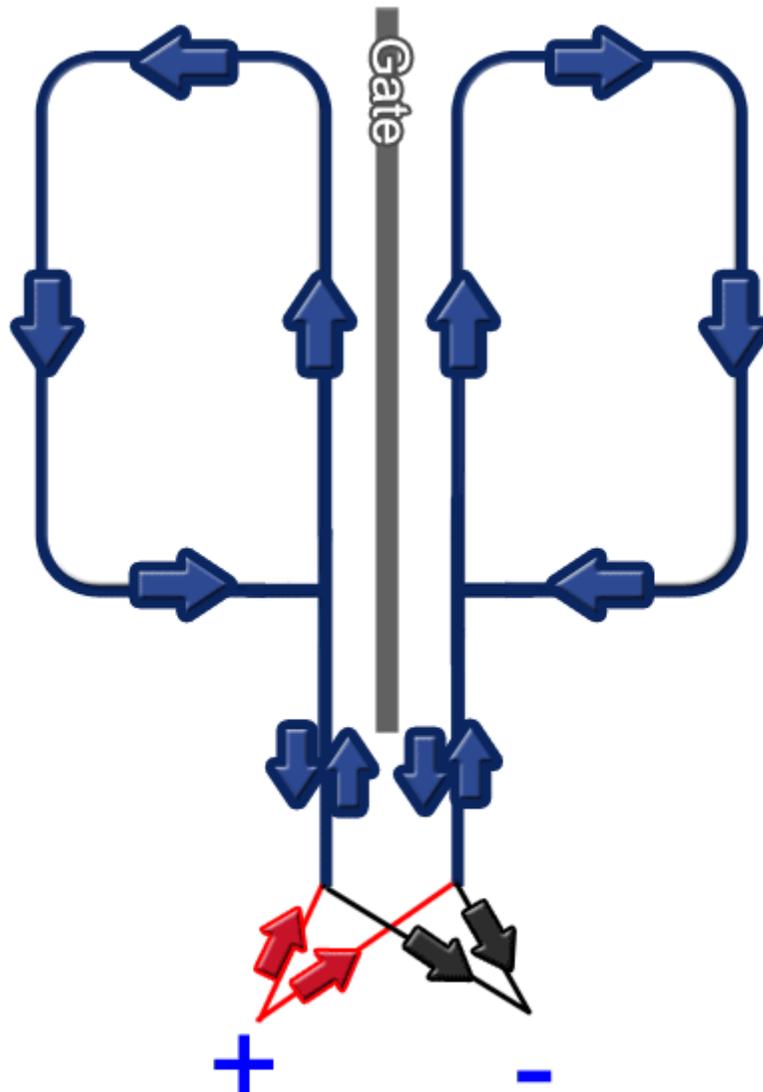
*Never connect loops in parallel.*

For loops in parallel you decrease your loop network inductance depending on the number of loops connected. For example: 2 loops in parallel equaling 120 micro henries divided by 2 = 60 micro henries per loop.

It is hard to tell if one of loop hooked in parallel fails, which compromises the security of the gate system.

Look at the how the lead-in wires are connected in the image below:

Hooking loops up in parallel might save you a detector, but it halves each loop's inductance. Another risk to consider is undetectable loop failure, which can lead to the gate colliding with a vehicle.



## The flow of current in Parallel Loops

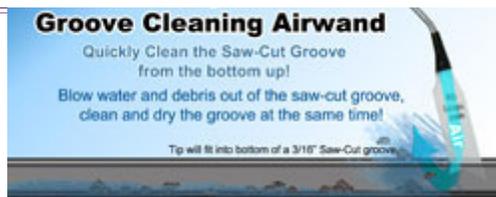
Your connection should **never** look like the one above.

## Groove Cleaning Air Wand

Quickly and easily clean and dry the saw-cut groove from the bottom up.



With **BD Loops** Groove Cleaning Air Wand installers



can blow debris out of the saw-cut groove and lessen the amount of time it takes the groove to dry. Drying the saw-cut groove before

installing a saw-cut loop can help prevent the need for early replacement. Sealant instructions call for completely dry grooves for sealant application, water in the groove can prevent the sealant from adhering to the walls and wire correctly or potentially cause air pockets to form.

The new BD Loops Airwand combined with our preformed saw-cut loop, TB-KIT and Sealant Tip will save installers even more time, money, and materials.

*As of August 1st 2010 every TB-KIT comes packaged with a Groove Cleaning Air Wand.*

Thank you for taking the time to read our October Installer Newsletter, if you have any questions, comments or concerns please do not hesitate to contact us.

Sincerely,

Brian Dickson  
General Manager  
BD Loops  
P: 714-890-1604

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