

## Direct Burial Installation Instructions\*

*Preformed direct burial installation tips and directions*

➔ **This is not a Saw-Cut Loop** for all saw-cut applications use **BD Loops** preformed 3/16" saw-cut loop.

### Installation in Concrete

See Reverse side of this page.  
(Pictures included)

### Installation Under Pavers

**If the sub-base is concrete or a slurry do not use this loop. Saw-Cut in a loop instead.**

Determine loop position and footprint including the lead-in run to gate operator. Be sure to use the correct loop size.\*

Dig a 2" wide by 3-4" deep trench in the pattern of the loop and lead-in. (See **Figure 1**)

Fill Trench with one inch of sand.

Place loop in trench and run lead-in through 1/2" schedule 40 or 80 rigid PVC. Glue all PVC joints with a proper PVC solvent cement.

Cover loop and lead-in PVC run with 2 1/2" of sand.

### Installation under Asphalt

Position and shape the loop on sub-base. Be sure to use the correct loop size.\*

Pull lead-in through 1/2" schedule 40 or 80 rigid PVC. Glue all PVC joints with a proper PVC solvent cement.

Dig a 2" wide by 3-4" deep trench in the size and place of the loop footprint and lead-in.

Fill the trench with one inch of sand base.

Lay the loop and lead-in run in the trench on top of sand base.

Encase loop in sand, do not allow loop or lead-in to come in direct contact with hot asphalt. Sand barrier above loop must be at least 1/8".

**BD Loops cannot come in direct contact with hot asphalt. Call BD Loops for any questions and to find a solution.**

### Installation in Gravel Road

Position and shape the loop on sub-base. Be sure to use the correct loop size.\*

Pull lead-in through 1/2" schedule 40 or 80 rigid PVC. Glue all PVC joints with a proper PVC solvent cement.

Dig a 7" to 10" deep trench in the size and place of the loop footprint and lead-in.

Fill the trench with one inch of sand base.

Lay the loop and lead-in run in the trench on top of sand base.

Cover loop and lead-in PVC run with 2 1/2" of sand. Compact sand around the loop then fill in with road base.

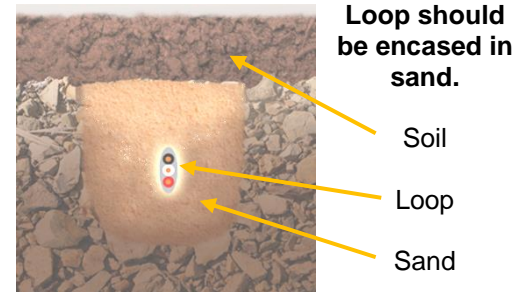


Figure 1

**Solder or tin all loop connections** to prevent corrosion/oxidation of the copper wire which can cause **intermittent loop problems**. Crimping and wire nuts are ok – as long as the wires are tinned or soldered.

**Harness Wire: Solder all connections**  
**Plug/Screw Connectors: Tin all connections**

### Basic loop layout guidelines to follow

#### Reverse and Exit Loops

- 4ft from the gate/door.
- Swing gates require 3ft from its complete open and closed position.
- 0-2ft from each curb.
- 4ft from every other loop.

#### Shadow loops

- Loop lies under the swing path.
- 4ft from the gates in its complete open and closed position.
- 0-2ft from the curb. (Single Swing Gate)

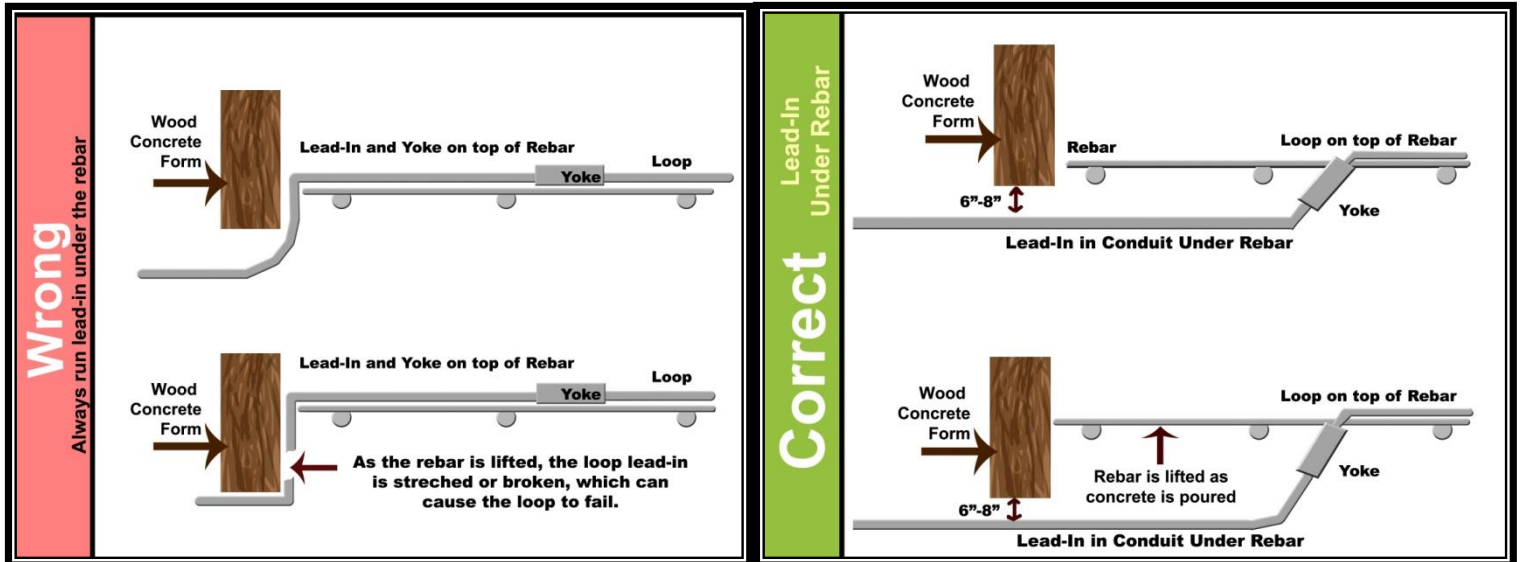
Detection height is determined by approximately 2/3 of the short leg of the loop.  
Residential 4ft short leg (Detection of standard size vehicles only). Commercial 6ft short leg (Detect higher bed vehicles).

\*Check BDLoops.com for the latest installation instructions.

# Installing **BD Loops** in Concrete Over Rebar / Wire Mesh

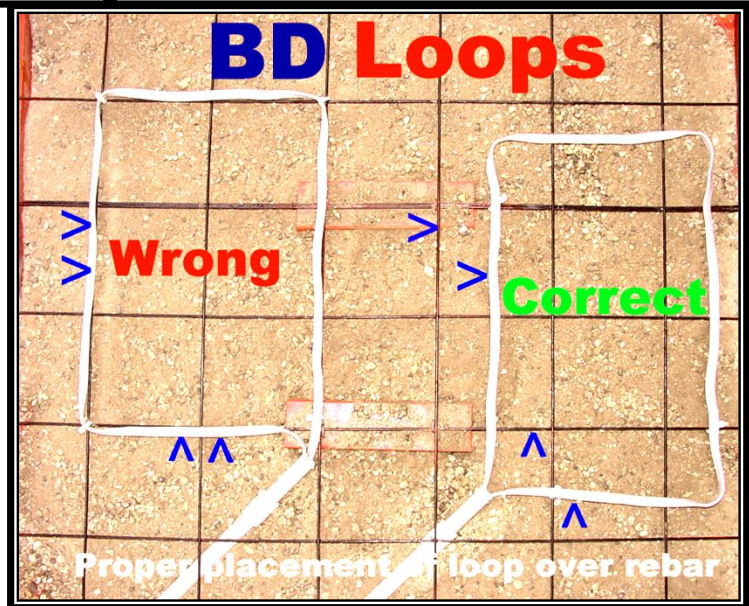
When installing **BD Loops** over rebar make sure to follow these simple instructions:

- Determine loop position and lay loop on top of rebar / wire mesh (never below).
- Offset the loop from the rebar / wire mesh pattern (see picture below) then use supplied cable ties to secure loop in place.
- Always run the lead-in underneath the rebar / wire mesh. (see picture below)
- Run the lead-in 6-8" under the wood concrete form.
- **Run the lead-in in conduit (1/2" Schedule 40 or 80 recommended) making sure to glue all PVC joints with a proper PVC solvent cement.**



In the picture to the right notice how the "Correct" loop is offset from the rebar pattern. The loop is coming in contact with the rebar as little as possible. ----->

Visit [BDLoops.com](http://BDLoops.com) to download and print [Warning Signs](#) and a [Loop Sign Off Form](#) to help protect inductance loops from the damage that a concrete crew can cause during a concrete pour.



Thoroughly test loops/system to make sure they meet your detection needs/objectives. These instructions may not be suitable if there are special circumstances at your job site.



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