

## 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 and use supplied ground stakes to secure the loop corners. Remove stakes when loop is in position.

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.\*

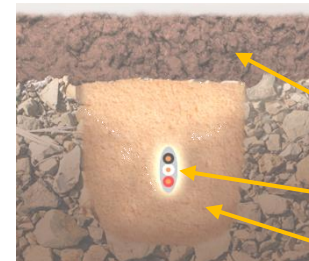
Pull lead-in through 1/2" schedule 40 or 80 rigid PVC. Glue all PVC joints with a proper PVC solvent cement.

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 and use supplied ground stakes to secure the loop corners. Remove stakes when loop is in position.

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



Loop should be encased in sand.

Soil

Loop

Sand

Figure 1

The ground stakes included with the loop are to help hold the loop down while laying out a trench pattern. When the loop is placed in the trench the ground stakes are no longer necessary and should be discarded.

**Harness Wire: Solder all connections**  
**Plug/Screw Connectors: Tint 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.
- 3-4ft from the gates in its complete open and closed position.
- 0-2ft from the curb. (Single Swing Gate)

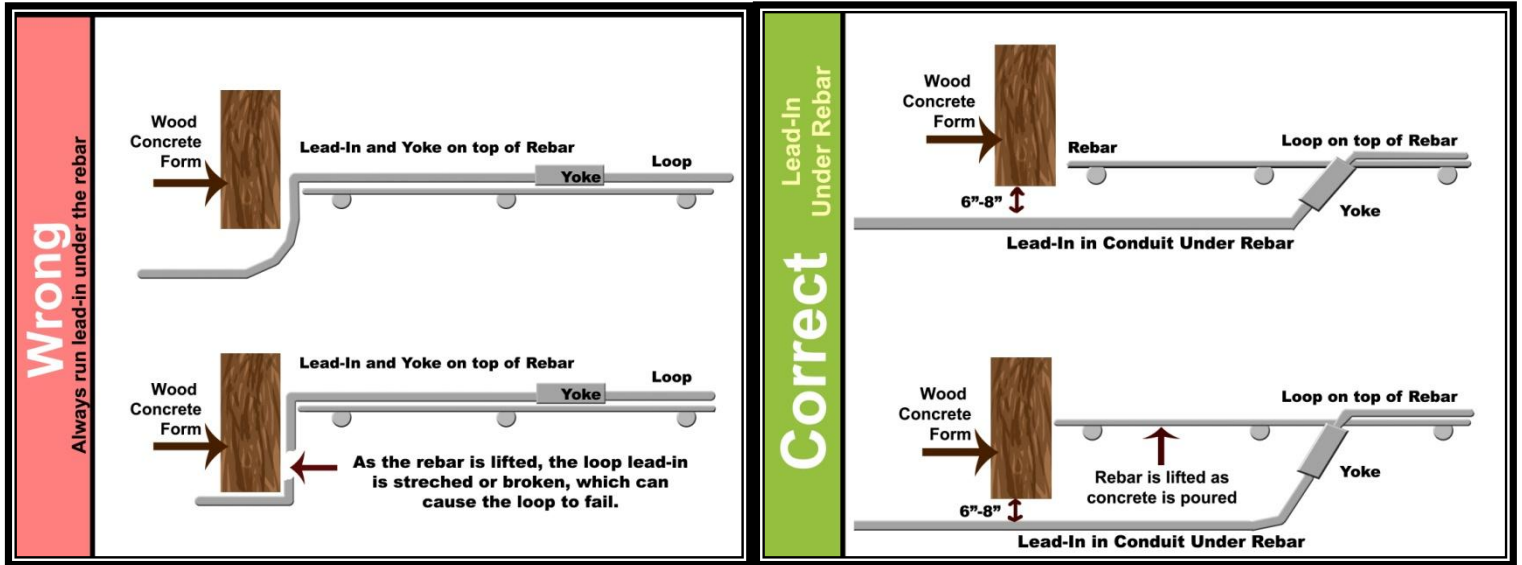
Detection height is determined by approximately 2/3 of the short leg of the loop.  
Residential 4ft short leg (Detection of standard size vehicles only). Commercial 6ft short leg (Detect higher bed vehicles).

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

# Installing **BD Loops** in Concrete Over Rebar

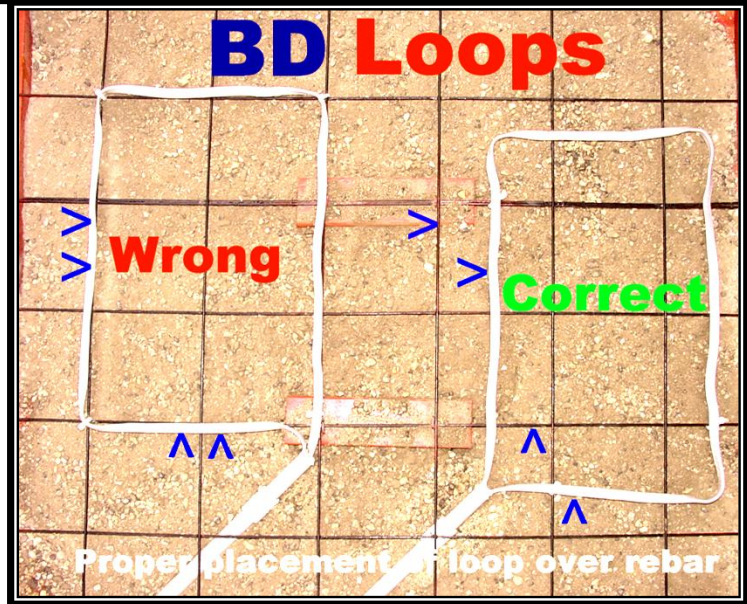
When installing **BD Loops** over rebar make sure to follow these simple instructions:

- Determine loop position and lay loop on top of rebar (never below).
- Offset the loop from the rebar pattern (see picture below) then use supplied cable ties to secure loop in place.
- Always run the lead-in underneath the rebar. (see picture below)
- Run the lead-in 6-8" under the wood concrete form.
- **Run the lead-in in conduit (½" 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.



## Instrucciones ESPAÑOL

Scan this or visit:

[www.bdloops.com/bdloops\\_downloadsB.html](http://www.bdloops.com/bdloops_downloadsB.html)

