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 ½" schedule 40 or 80 rigid PVC. Glue all PVC joints with a proper PVC solvent cement.

Cover loop and lead-in PVC run with 2½" 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 ½" 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 ½" 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 2½" of sand. Compact sand around the loop then fill in with road base.

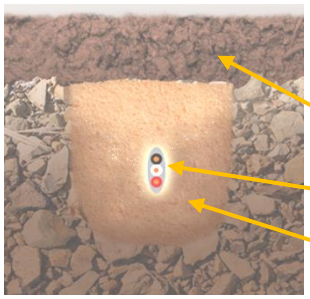


Figure 1

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

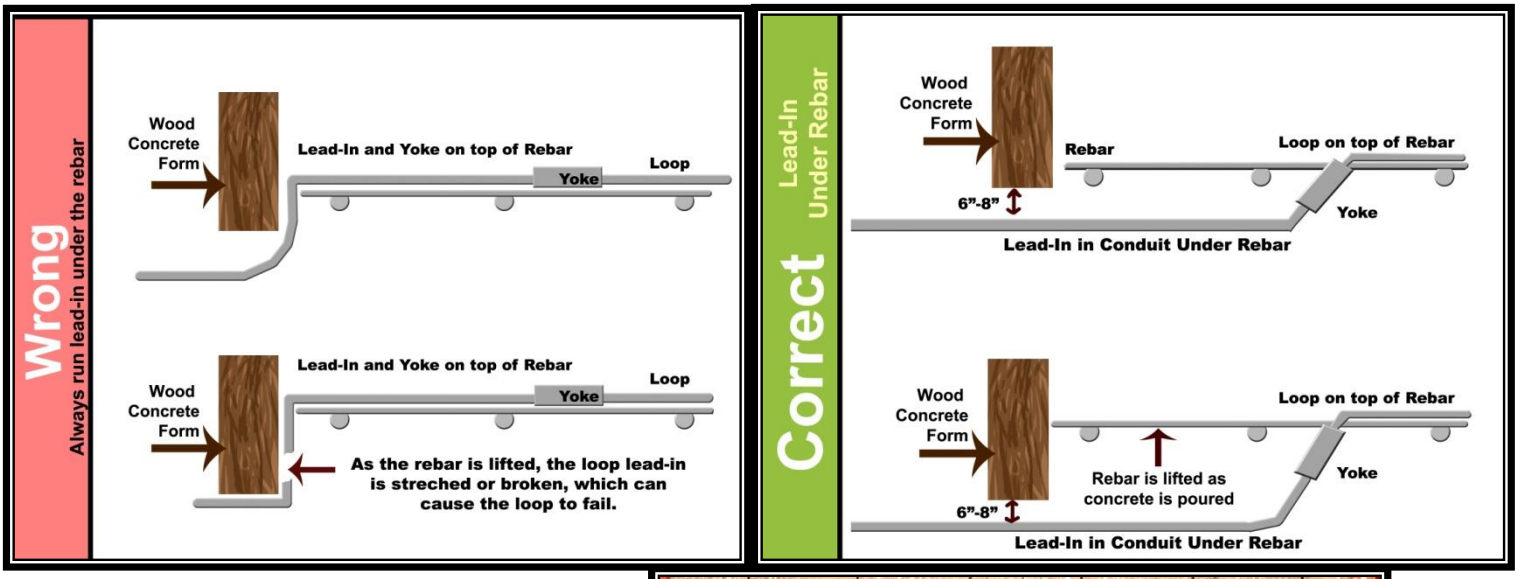
- Loop lies under the swing path.
- 4ft from the gates in its complete open and closed position.
- 0-2ft from the curb. (Single Swing Gate)

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.

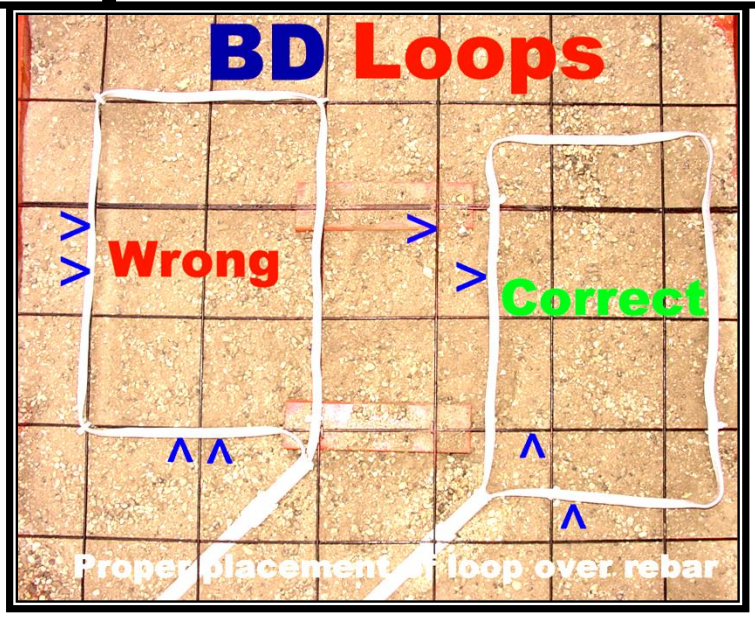
Installing BD Loops in Concrete Over Rebar / Wire Mesh

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 (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 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.