ELSEMA
Automatic Gate & Door Technology

10 Years 2001-2011 | BD Loops
The Loop Experts!

Direct Burial Loop Installation Instructions

Preformed direct burial installation tips and directions

This is not a 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 to include lead-in run to gate operator. Be sure to use the correct loop size.

Dig a 50mm wide by 75-100mm 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 20mm schedule 40 or 80 rigid PVC. Glue all PVC joints with a proper PVC glue.

Cover loop and lead-in PVC run with sand.

Installation under Asphalt

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

Pull lead-in through 20mm schedule 40 or 80 rigid PVC. Glue all PVC joints with a proper PVC glue.

Dig a 50mm wide by 75-100mm deep trench in the size and place of the loop footprint and leand-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.

Cover loop and lead-in PVC run with sand.

Elsema Loops cannot come in direct contact with hot asphalt.

Installation in Gravel Road

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

Pull lead-in through 20mm schedule 40 or 80 rigid PVC. Glue all PVC joints with a proper PVC glue.

Dig a 180-250mm 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.

Cover loop and lead-in PVC run with sand. Compact san around the loop then fill in with road base.

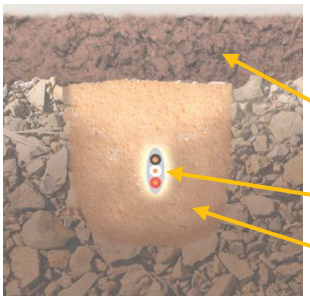


Figure 1

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

Entry and Exit Loops

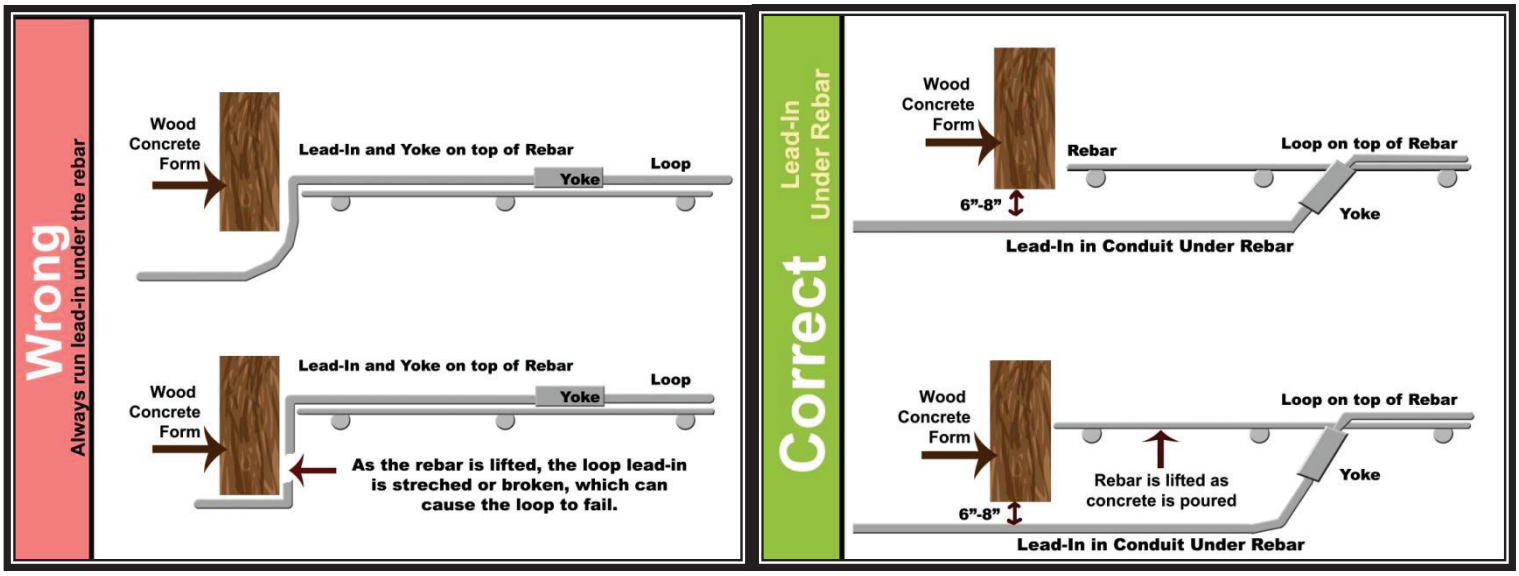
> 1.5m from the gate/door
> For Swing gates, at least 1.5m from the fully open and closed position
> 0-600mm from each curb
> 1.5m from every other Elsema loop

Detection height of loop is determined by 2/3 of the short leg of the loop.
Residential 1.2m short leg (Detection of standard size vehicles - 0.80m detection height)
Commercial 1.8m short leg (Detect higher bed vehicles – 1.2m detection height)

Installing in Concrete Over Rebar

When installing 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 concrete form.
> Run the lead-in in conduit (20mm Schedule 40 or 80 recommended) making sure to glue all PVC joints with a proper PVC glue.



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. ----------►