

## Saw-cut Installation Instructions

### Preformed saw-cut installation tips and directions

#### Saw-Cut Instructions without TB-Kit

Determine and mark loop position and footprint to include lead-in run to gate operator. If the pattern is too large the loop will not fit, so make your measurements slightly smaller than larger, excess can be placed in the yoke area. Corners should be marked with a 45° dog-ear cut that measures 5 1/2 x 5 1/2 x 7 3/4 inch. See reverse side of this sheet for a template. Be sure to use the correct loop size.\*

#### Saw-Cut Instructions using TB-Kit

Use of the BD Loops TB-Kit will insure a correct sized cut every time by using the loop itself to measure and mark lines.\*

1. Insert loop in kit and drill holes.
2. Chalk lines.
3. Exact pattern every time.

\*In depth instructions supplied with kit.

3/16" inch or 1/4" saw-cut blade with a minimum depth of 1 1/4 inch and a maximum of 1 3/4 inch is recommended. Cut into the installation surface following the marks previously made. No backer-rod is required if using a 3/16" saw-cut blade, but when using a 1/4" saw-cut blade use backer-rod or wrap electrical tap every 2-3' to serve as backer-rod.

A wider groove is needed for the yoke (where the loop meets the lead-in). Drop the blade several times to make a 5/8 inch wide groove that is 6-8 inches long.

Prepare to insert the loop into the saw-cut groove. Start by positioning the red line on the loop (mark made at the factory) at the corner opposite of the yoke. **Do not fully insert the loop into the saw-cut groove at this time.** Partially insert the loop into the saw-cut groove, red side down, adjusting the position of the loop to fit the yoke. After aligning the yoke start at the red mark opposite of the yoke, fully push the loop into the bottom of the saw-cut groove, do not use a tool that has a sharp edge. BD Loops recommends the use of its PR-3/16" (Pizza Wheel) to push its saw-cut into saw-cut grooves.

Seal saw-cut groove with a proper loop sealant, use of a 3/16" saw-cut blade can save 50-60% on loop sealant because of built-in backer-rod. Weather, humidity, and temperature will determine which type of sealant to use. Use the BD Loops 3/16" Sealant Tip Applicator to effectively fill the groove from the bottom up in one pass.

#### 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 4ft from its complete open and closed position.
- 2ft from each curb.
- 4ft from every other loop.

#### Shadow loops

- Loop lays under the swing path.
- 4ft from the gate in its complete open and closed position.

Detection height of loop is determined by 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).

## \*Need help determining your layout?

### BD Loops Loopalator- The loop Layout Calculator

Visit our website to learn more, and download your own free copy of the Loopalator – The Loop Layout Calculator. Just by knowing the driveway width, type of gate, and type of loop (direct burial or saw cut) you can easily calculate the sizes of loops needed for any job, and print out a detailed layout plan to give to installers.

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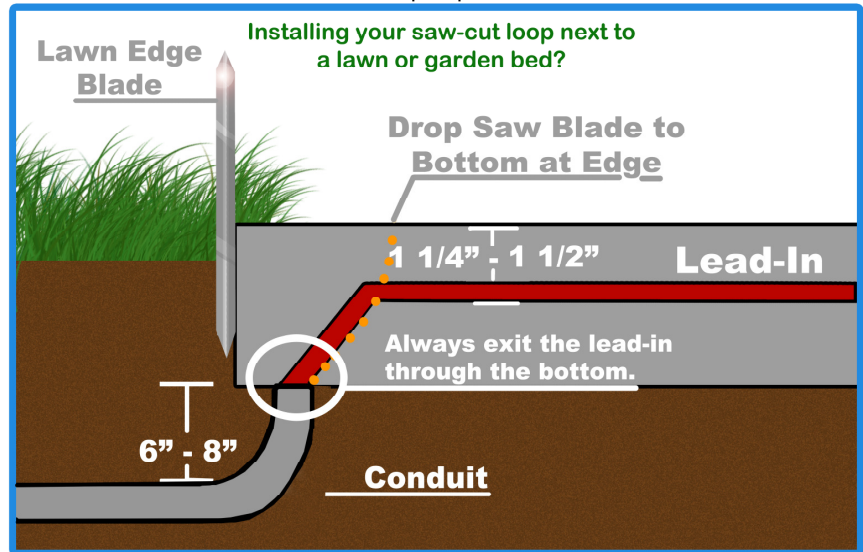
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# How to properly exit the roadway

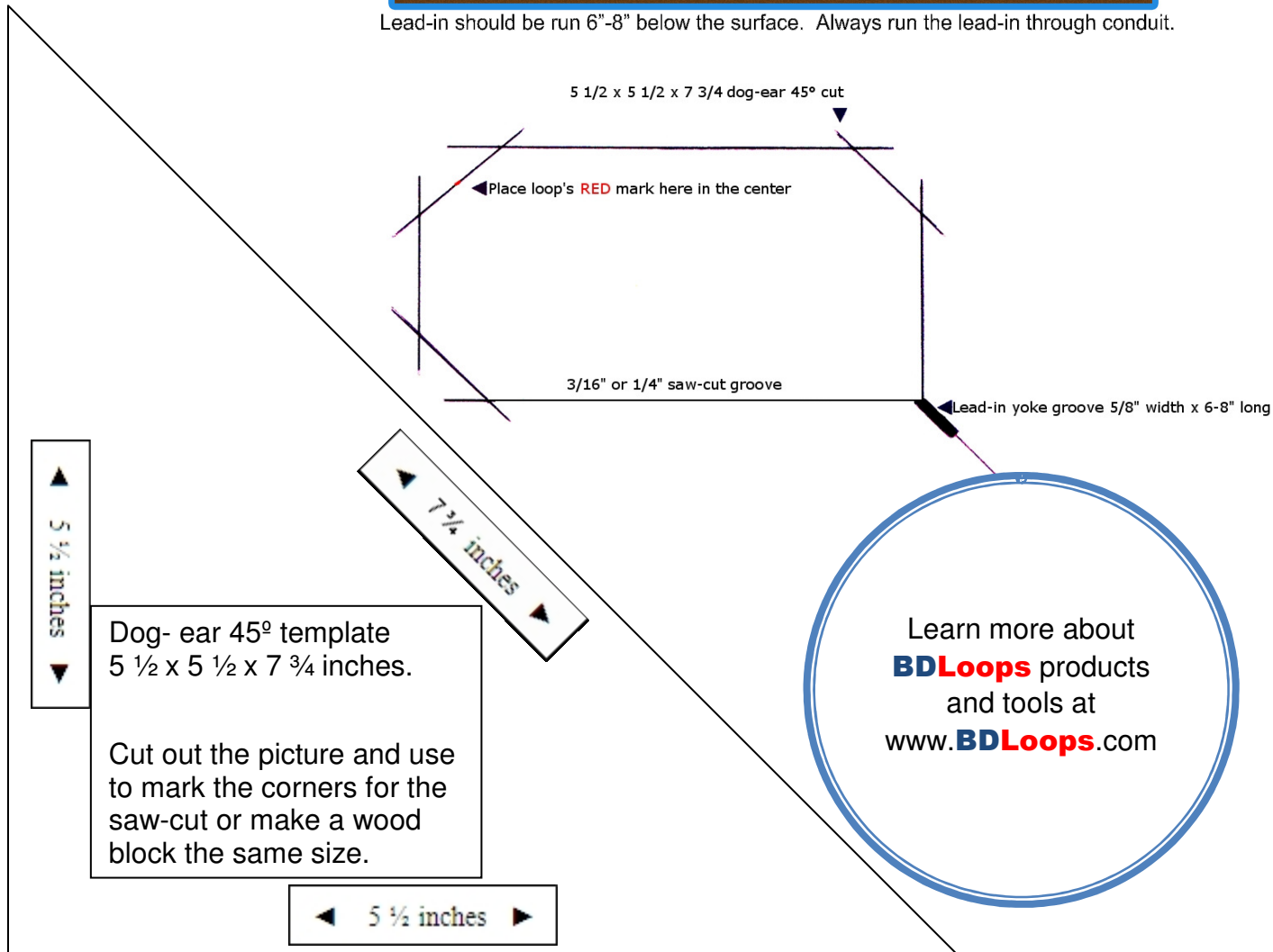
## BD Loops

The Loop Experts

- Drop blade to the bottom at the edge of the roadway.
- Always exit lead-in through the bottom.
- 6-8 inches below the bottom of the surface material.
- Always run lead-in through PVC conduit. If you have a gopher problem lead-in can be run in metallic conduit.



Lead-in should be run 6"-8" below the surface. Always run the lead-in through conduit.



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