



The Ambrogio Robot base is designed to be placed along the perimeter with its side facing the mowing area. The LB32XX/LB21XX models bump into the base and the LB35XX models drive over the base platform. We are not fond of this because it increases wear and tear on both the robot and the base.

Fortunately, we have learned a wiring trick that minimizes the number of times the robot will bump/drive over the base platform. The trick utilizes our discovery that the wire can be placed 12" apart (or even less with TX-S1 transmitter) to avoid cancelling. This discovery has been recently affirmed by the manufacturer and included in the manufacturer's installation training manuals.

Please note, that Ambrogio Robot always backs out and makes a right turn. That is, it backs out just a little bit more than the length of the base, it swings itself 90 degrees clockwise toward the yard, starts the blade and then starts moving forward. If it detects the wire immediately after it starts moving, it will give an "Out of Border" message. It needs to be able to drive a foot or two before detecting the wire. There is no way to change this behavior.

Figure 25 and Figure 26 are drawings that show alternate base installation configurations. Each alternate method minimizes bumping and also enables the Ambrogio Robot to drive to different zones.

We also like to place several feet of extra wire into a long slack point near the base to accommodate future changes to the base position. The slack point wire may be staked along the non-mowing side of the base and back; the two wires 1mm apart.

Here are some important notes for all models 1) Keep the wire straight leading up to and under the base. Otherwise, the robot may not dock properly. 2) Make sure the base is on a firm level surface and that the grass in front is in good condition. Bear in mind the robot makes many trips too and from the base, so if the grass is sparse, the wheels will eventually wear into the dirt and the robot will start having problems docking. If this occurs, or the place you want to put the base has no grass, a mat can be used to give the robot some traction as it pulls in. 3) The symptom you will see if the base installation is faulty is you will find the robot dead on the wire because it could not dock and just kept circling until the battery dies.

Base In-line with Perimeter Wire

This wiring configuration keeps the Ambrogio Robot from bumping into the base (LB32XX/LB21XX) or driving over the base platform (LB35XX). Ambrogio Robot always backs out and makes a right turn. Do not put the wire from the back of the base more than 6" past the front of the base. If you do, the Ambrogio Robot could detect the wire, get confused and give an "Out of Border" message.

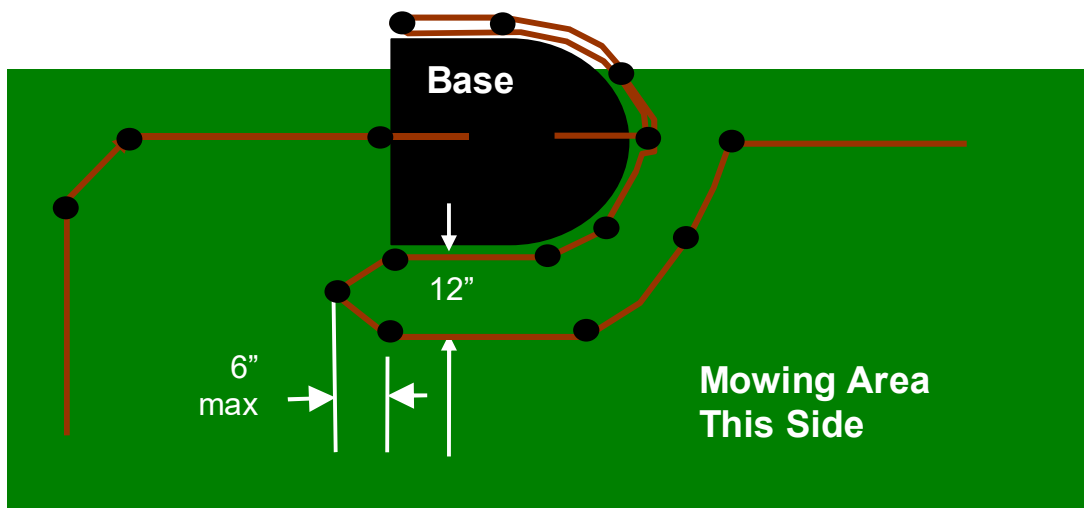


Figure 25 Base in Line with Perimeter Wire

Base Perpendicular to Perimeter Wire

Placing the base perpendicular to the perimeter wire is handy when you want to tuck the base into a corner, or if you want it to reside at the edge of the lawn rather than in the lawn. Just remember that the Ambrogio Robot always backs out and makes a right turn. It needs to drive a few feet before detecting the wire, otherwise it will get confused and give an “Out of Border” message. Ambrogio Robot is very agile. All models are capable of performing the 45 degree turn into the yard and then 180 degree turn back into the base. Only 3 feet of wire in front of the base is needed, but note the previously mentioned issue that the Ambrogio Robot may dock prematurely. Note, this approach may not work with Bounce on Wire, depending on the lawn configuration. The robot must respond to the recall antennas (see previous section that discusses antennas) and follow the wire in order for this base configuration to work.

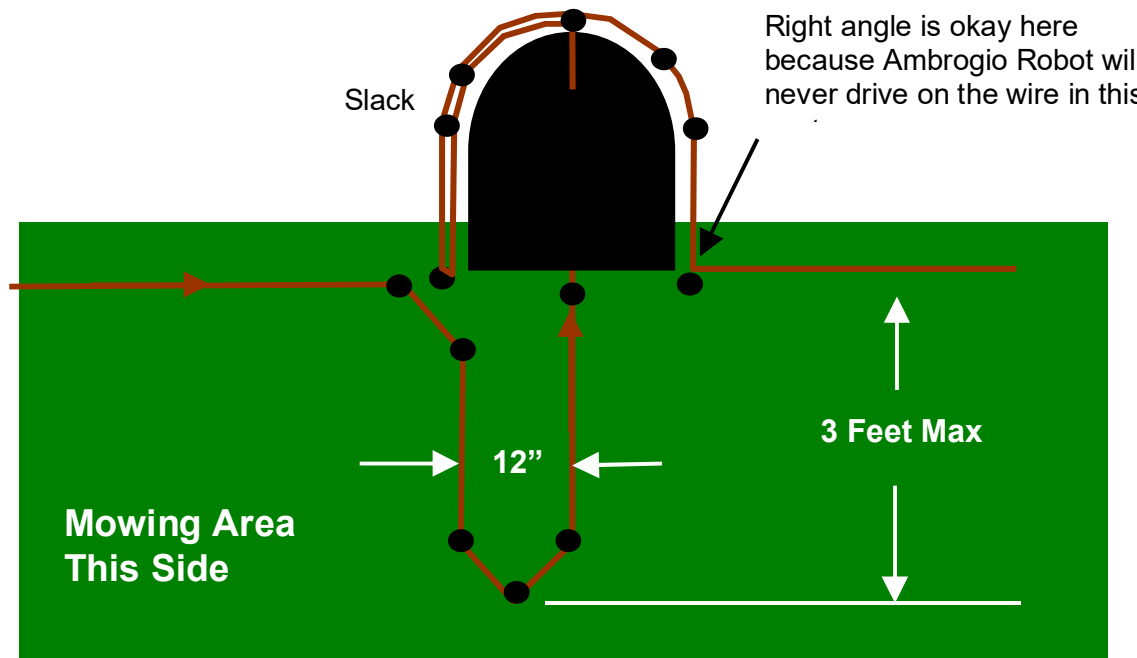


Figure 26 Base Perpendicular to Perimeter

Note that the above configuration may create a few challenges to make V-Meter work properly, depending upon the constraints of the particular lawn. Allow plenty of time for testing and adjustments to the wire, especially if V-Meter is used

The L400 recharging base should always be installed in-line with the perimeter, like in Figure Figure 25, due to its large size. It would require quite a long distance of wire into the lawn and there could be many issues since the L400 is not as maneuverable as the other robots. Therefore, if it is installed inline with the perimeter, as shown in Figure 27, the robot will not drive into the base, nor will there be docking issues due to using an unconventional base installation method.

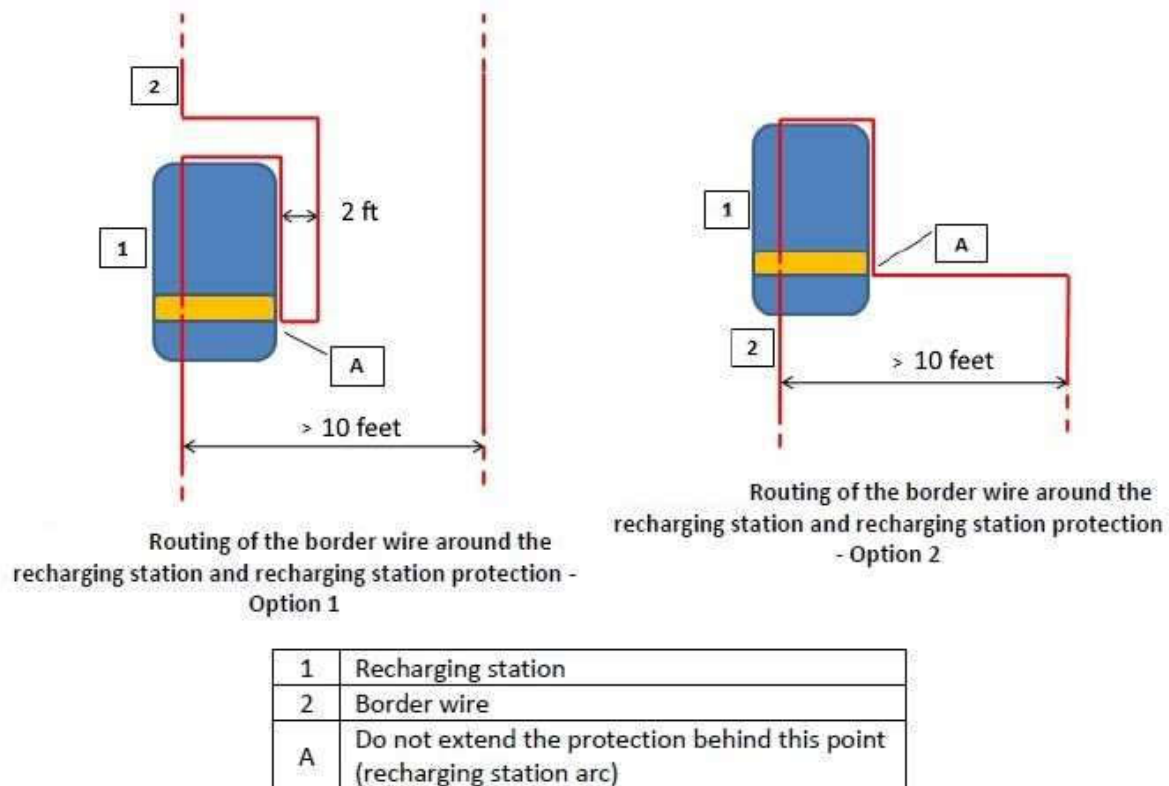


Figure 27 L400 Charging Base Installation