



LifeTrac

Fabrication Instructions



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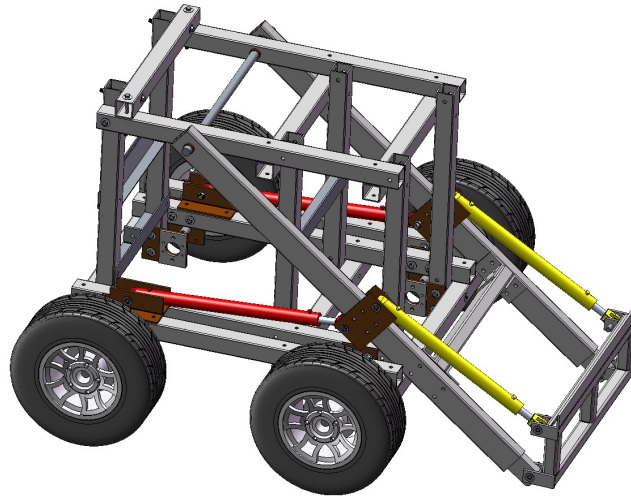
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Introduction

This guide will walk you through the entire process of fabricating LifeTrack, Open Source Ecology's general purpose tractor. Specifically, this is version 3. Included at the end of this document are instructions for building optional components like the quick connect wheel mounts and bend loaders arms, which are currently developmental.



Bill of Materials

Name	Quantity
8' x 4" x 1/4" wall tube	6
6' x 4" x 1/4" wall tube	9
4' x 4" x 1/4" wall tube	3
8' x 4" x ?" bar	1
4" x 4" x 1/4" angle	1
4" x 6" x 1/2" angle	4
4" x 1/2" x ?" bar	1
3 3/8" x 1/4" x ?" bar	1
13/16" drill bit	1
1/2" drill bit	1
Metal saw	1
Cutting torch	1
Metal grinder	1

Center punch	1
Tape measure	1
1/4" drill bit	1
drill	1

Frame Hole Jig


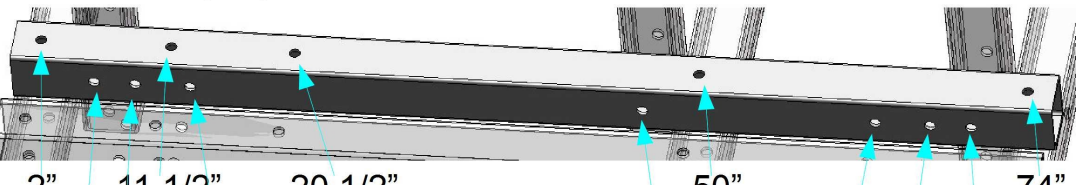
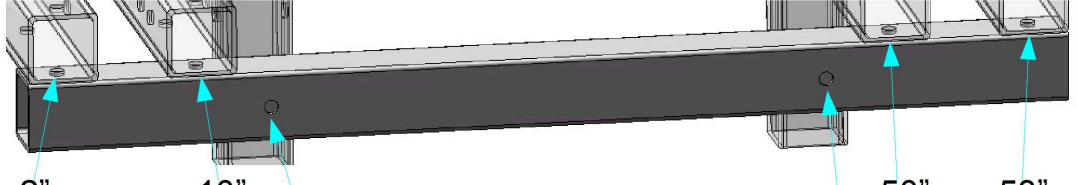
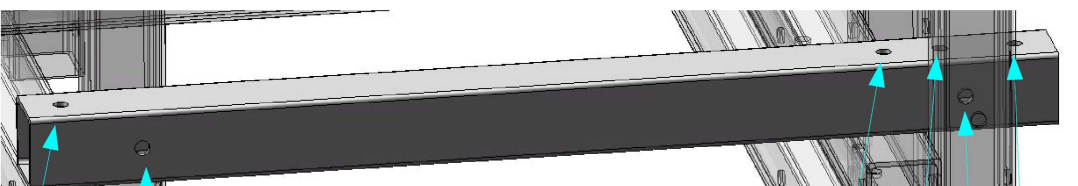
Cut a piece of 4" wide flat stock to 76" long. Starting at one end, mark (centered) and drill 1/4" holes at the following distances:

- 2"
- 6"
- 9"
- 10"
- 11 1/2"
- 13"
- 14"
- 20 1/2"
- 26"
- 28"
- 30"
- 38"
- 42"
- 46"
- 49"
- 50"
- 53"
- 54"
- 57"
- 58"
- 62"
- 63"
- 66"
- 67"
- 70"
- 74"

Blueprints

Frame Tube Lengths & Hole Positions

- Use the Frame Jig to mark matching holes on opposite sides of the tube.
- Drill each mark 13/16" (unless otherwise specified).
- Do not drill all the way through the tube from one side unless using a drill press.

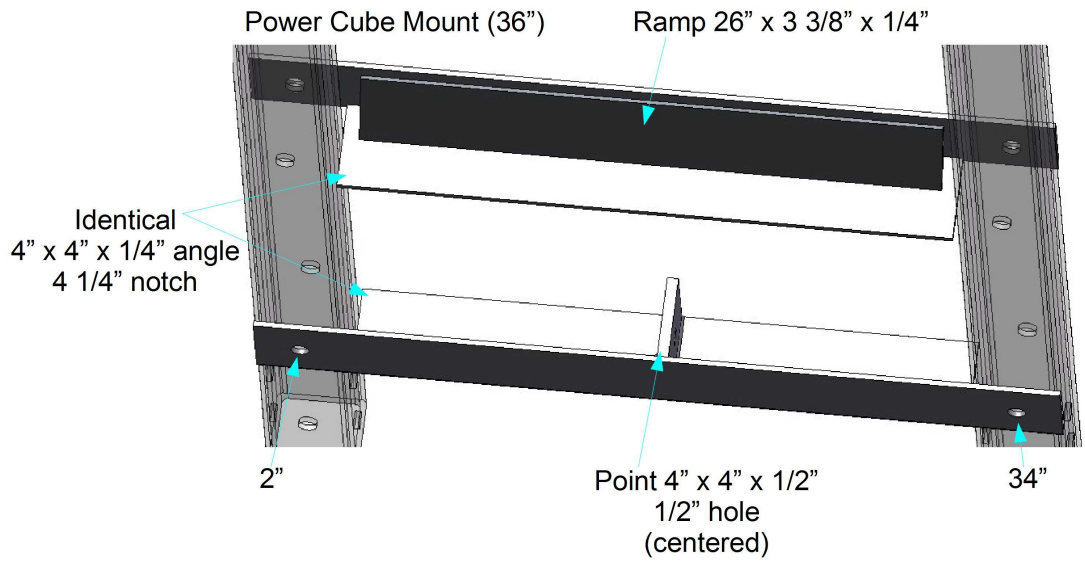
Part	Illustration
Outer Base	<p>Outer Base (76")</p>  <p> 2" 9" 11 1/2" 13" 20 1/2" 50" 63" 67" 74" </p>
Inner Base	<p>Inner Base (76")</p>  <p> 2" 6" 9" 11 1/2" 13" 20 1/2" 46" 50" 63" 67" 70" 74" </p>
Bottom Crossbar	<p>Bottom Crossbar (60")</p>  <p> 2" 10" 14" 46" 50" 58" </p>
A-Pillar	<p>A-Pillar (55")</p>  <p> 2" 6" 46" 49" 50" 53" </p>

B-Pillar	<p>B-Pillar (52")</p> <p>2" 6" 26" 46" 50"</p>
C-Pillar	<p>C-Pillar (59")</p> <p>2" 6" 28" 46" 50" 53" 54" 57"</p>
Top Crossbar	<p>Top Crossbar (44")</p> <p>2" 6" 38" 42"</p>
<p>Cant Rail The big hole at 46" should be 2 3/8". Use a cutting torch.</p>	<p>Cant Rail (68")</p> <p>2" 6" 26" 30" 46" 62" 66"</p>

Power Cube Mount

Part	Illustration
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Power Cube Mount
 Holes 13/16
 unless otherwise noted. The angle of the ramp needs to match the Power Cube. A good estimate is to leave a 3/4" gap between the top edge of the ramp and the top edge of the angle.



Loader Arm Crossbar Support

Part	Illustration
Loader Arm Crossbar Support	<p>Loader Arm Crossbar Support</p> <p>4" x 6" x 1/2" angle x 6"</p> <p>A) 1 1/2" B) 2" C) 3 1/2"</p>