# Big Foot Moving Through Woods

### InvisaTrax<sup>TM</sup> Transport System



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### InvisaTrax<sup>TM</sup> Components List

#### Quantity Component Name

- 1 90° Motor Turn w/motor mounted<sup>1</sup>
- 1 Motor Turn Gear
- 6 14 Unit Track Piece
- 8 8 Unit Track Piece
- 101 Chain Links (2 3mm RND)
  - 2 3mm Round Magnets
  - 2 2mm x 0.5mm Magnets
  - 1 Brass Slider
  - 1 DC Motor Controller
  - 1 Power Supply (battery or 6V DC Adapter)

1 - This assumes that the wires have already been soldered to the motor. See the InvisaTrax<sup>™</sup> Transport System Instructions for details.



Track Components shown are early test prints, printed in-house using 3D Resin Solutions Studio Green Resin

### Additional Materials Used

#### Material Name & Description

1 in. x 2 ft. x 2 ft. Rigid Foam Board Insulation

20 x 30 x 3/16 in. Foam Board

92 lb 19.5 x 25.5in Fine Grain Craft Paper

Blended Turf Ground Cover

Trees - handmade or store bought

#18 x 5/8" Wire Nails

Double-Sided Tape

White Glue

Foam Board - scrap pieces

CatzPaw Big Foot Figure, S-Scale (1:64) (https://catzpawstore.myshopify.com/products/big-foot-8scale-feet? pos=1& sid=29f2079d8& ss=r)





### **Tools Used**

Tool Name & Description Box Cutter (to cut foam board) 3/4" Forstner Bit (to drill hole for motor) Double-ended Screw Driver: Flat & Philips Head Tack Hammer Pencil (to sketch & mark the path)



## The Process

- Cut and glue the Foam Board to the Foam Board Insulation.
- Trace the desired path onto the Foam Board.
- ▶ Lay the InvisaTrax<sup>TM</sup> track segments to match the traced path.
- Mark where the motor turn will be placed and drill a hole to house the motor.
- Mount the track to the foam boards using the wire nails. Place the wire nails in the provided openings in the side of the track sections and tap with a hammer or push with the flat blade of a screwdriver.
  - You can also use double-sided tape. Caution should be used as double-sided tape may loose its adhesion over time and the track may shift.
- Assemble the chain links and drop into the track. Be sure to have installed two (2) 3mm round magnets into two (2) consecutive chain links<sup>2</sup>.
- Attach the motor and power to the motor controller and test the setup. Run the system at all speeds and both directions.





2 - See the InvisaTrax<sup>™</sup> Transport System Instructions for details on mounting the magnets.

Build up around the track using scrap pieces of foam board. The closer the fit, the better, but not required.

The scrap foam board pieces can be mounted using double-sided tape, white glue, wire nails, rubber cement, etc.





Cover the track with the 90 lb craft paper.

The craft paper can be attached using glue, rubber cement, double-sided tape, spray adhesive, etc.

**CAUTION**: when using glue and spray adhesive, be careful not to get glue in the track or on the chain.

#### > Test the system again. Be sure the chain is moving freely and not hung-up on the ground covering.

- Mark the path of the track by using a pencil. Angle the pencil so the side of the tip makes contact with the paper and move it back and forth to raise a print showing where the track is placed. This is done so trees are not placed in the path of our figure.
- Use the Magnetic Field Viewer to locate the chain links with magnets. Either move the viewer over the area where the track is located or place the viewer over the track and run the system until the magnetic fields appear.







A figure that has a brass slider with magnets attached<sup>3</sup> is now placed on the chain section containing the magnets and the system is tested again. Test at all speeds and directions.

*3 - See the InvisaTrax<sup>TM</sup> Transport System Instructions for details on the brass sliders and mounting the magnets.* 

With the outline of the track visible, add the Blended Earth ground covering by brushing on thinned white glue and lightly sprinkling over the wet area. Be careful not cover the area where the figure will be moving.



Wait until it dries and test again! With the figure and without. Make sure the ground cover is not interfering with the figures movement.

Fill in any bare areas, add trees, and additional landscaping.

## Proudly Display the Results



https://youtu.be/t\_DPwv49Q0o?si=aLDRSpkG\_xicT0Kf