Assembly Instructions for Shuttle Crawler – Transporter (Part 1)
Building the main crawler body

Top photo has indications where other parts will be located and glued. The bottom photos show where the other parts are glued.
These parts will be glued as photo shows and will prevent the box from collapsing. A larger white part will be glued on top of this completing the rectangular crawler body.
Top photo shows the small box that will be glued to the main rectangular box already built. Both boxes will become the main body of the crawler.
This photo shows how the crawler floor will look like once the floor sections are glued together. Note how the pattern of the beams goes in order to glue both parts.

**IMPORTANT:** The red circle shows how both the floor and the sidewall will go together. This is actually the engineer control room. Note that the floor of this room has no beams. This is SIDE 2 of the Crawler.

Now the top sections of the crawler are glued on top of the main body as both photos show.
Building the Crawler Corners

This part will vary in details depending which corner you are building.
Top photo shows how the corner is shaped. Bottom photos demonstrate how the tip of the corner is made. This part will hold the guiding tube and cylinders for each “truck”.
A close up of the corner (top) and how the underside of the crawler looks like after all 4 corners are glued. At this point is very **IMPORTANT** to let it dry well before moving on to the next step.
Only 2 corners of the crawler will indicate where to glue the Cab. Bottom photos show how the Cab is built. There is a part that goes on top of the Cab.
Note how the Cab is glued to the corresponding corner. **IMPORTANT**: The red circle shows how both parts are glued starting in the angle where the red arrow shows.
The black “door” has to show up on the internal part of the Cab.

Building the “truck”

This is the main part as the base for each “truck”
This is how the base of the truck is shaped. It looks like a car.

Photos show how the sides of the truck are shaped and glued to the side of the truck.
Photo indicates the sequence to follow, and how the parts are glued to each other.
IMPORTANT: Let it dry well before putting the caterpillars.

This is a crawler caterpillar. Is made out of 2 parts that are glued to each other. Try giving it a shape in order to be easy to install. Each caterpillar has 57 cleats just as the real one.
This is the truck showing both caterpillars in place.

Photos show the guiding tube and cylinders in their corresponding places. **IMPORTANT**: Let the tubes dry well before gluing it to the crawler’s corner.
Note how the truck looks with the steering arm in place. The steering arm has a small box that is glued to the tip.

This is another steering arm that goes on top of the truck. Each truck has 2 steering arms on top. Each one is asymmetrical. The side that has the black dot will face inwards towards the tubes. The black dot indicates where the steering cylinder is glued.
Building the propel motors

These 3 parts will form the propel motor block. The main rectangular box has indications where the other parts are glued. The top cylinder is an octagon. Each truck has 2 sets of motor blocks on each end; in total there are 4 motors for each truck.
Adding other elements

Photo shows where the “wings” are located for each motor block.

This is how this part is shaped. This will go on the underside of the crawler. This part is where the steering cylinder is glued (black dot).
This is the underside of the crawler showing the triangular beams that will hold each steering cylinder. This is repeated to the other end of the crawler.
Building the steering cylinders

Use a cotton swab to make a steering cylinder; the same way the Robotic arm is build for the AXM Shuttle payload.

Arrow shows how the swab is cut at the tip in an angle. **This is done for the steering cylinders that will go on the underside of the crawler only.** The bottom swab is for the upper part of the crawler.
IMPORTANT: Note how the swab is positioned on the paper. The angled tip goes to the paper area with the thin stripe.
The red arrow indicates the thick part of the steering cylinder after the rectangular paper is rolled and glued.

For the steering cylinders that will go under the crawler, try shaping the angled tip so it will fit better when glued. **TIP:** If things don’t come out perfect you would need to cut the tip as needed in order to make the perfect length.
Photo explains it better. The red arrows indicate that the cylinders are not equal in length. If that happens, you would need to cut the outer tip at will.

This will complete Part 1 of the Crawler. Part 2 will demonstrate the assembly of the stairs and catwalks that go around the crawler, plus other minor details.
Reference photos
Enjoy this model!

http://www.axmpaperspacescalescalemodels.com