XPasTEX®
Spaghetti Connectorz

Designer
Tinkerer Engineer
SKILL LEVEL Ages 10+

# Truss Bridge Series

A bridge is a structure to cross an open space or gap. One of the most common types of bridge is a Truss Bridge. A truss bridge is a great, low-cost way to cross smaller spans.

Truss bridges are very strong because of the use of triangles in their design. Think about a square, circle, and triangle. Think which one is the hardest to crush if you were to press down on it.

Many truss bridges create a tunnel that you drive through, but it is also common for the roadway to be placed on top of the trusses. These two styles are called "Through" and "Deck" (See Image A).

Below are some common types of truss bridges. Notice how each is made with multiple triangles.

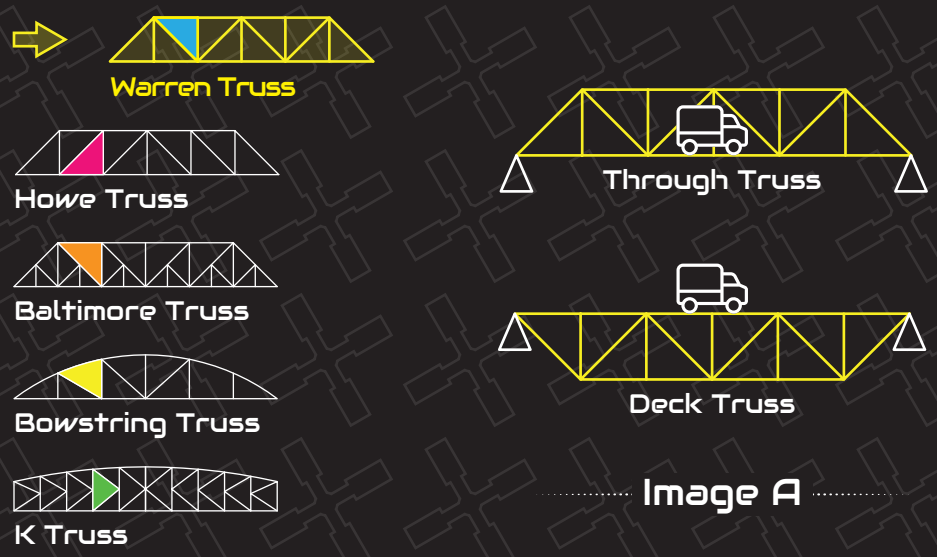
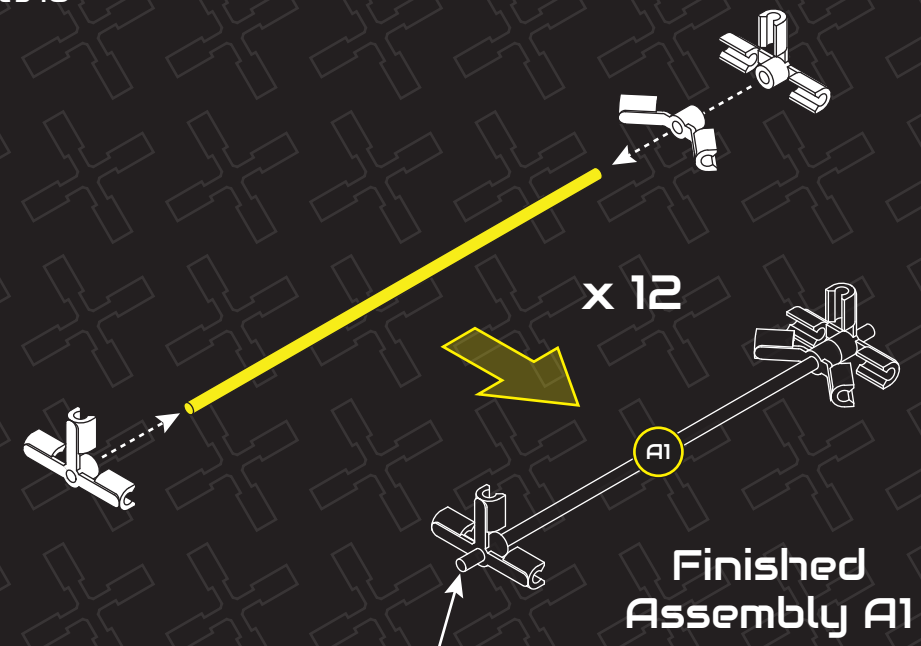
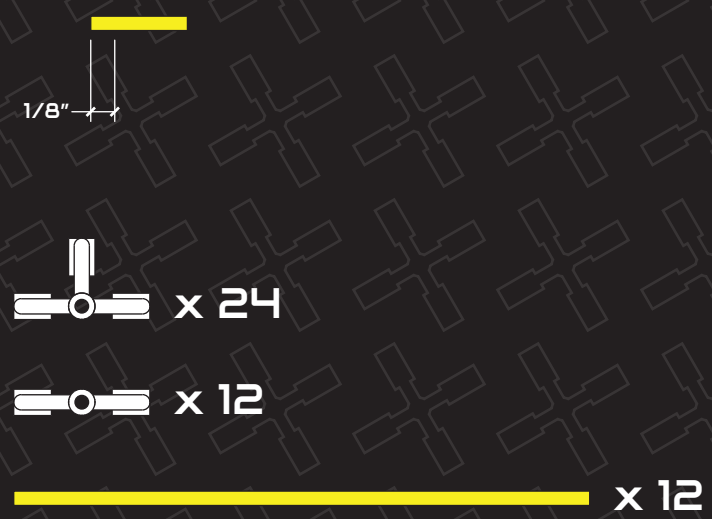
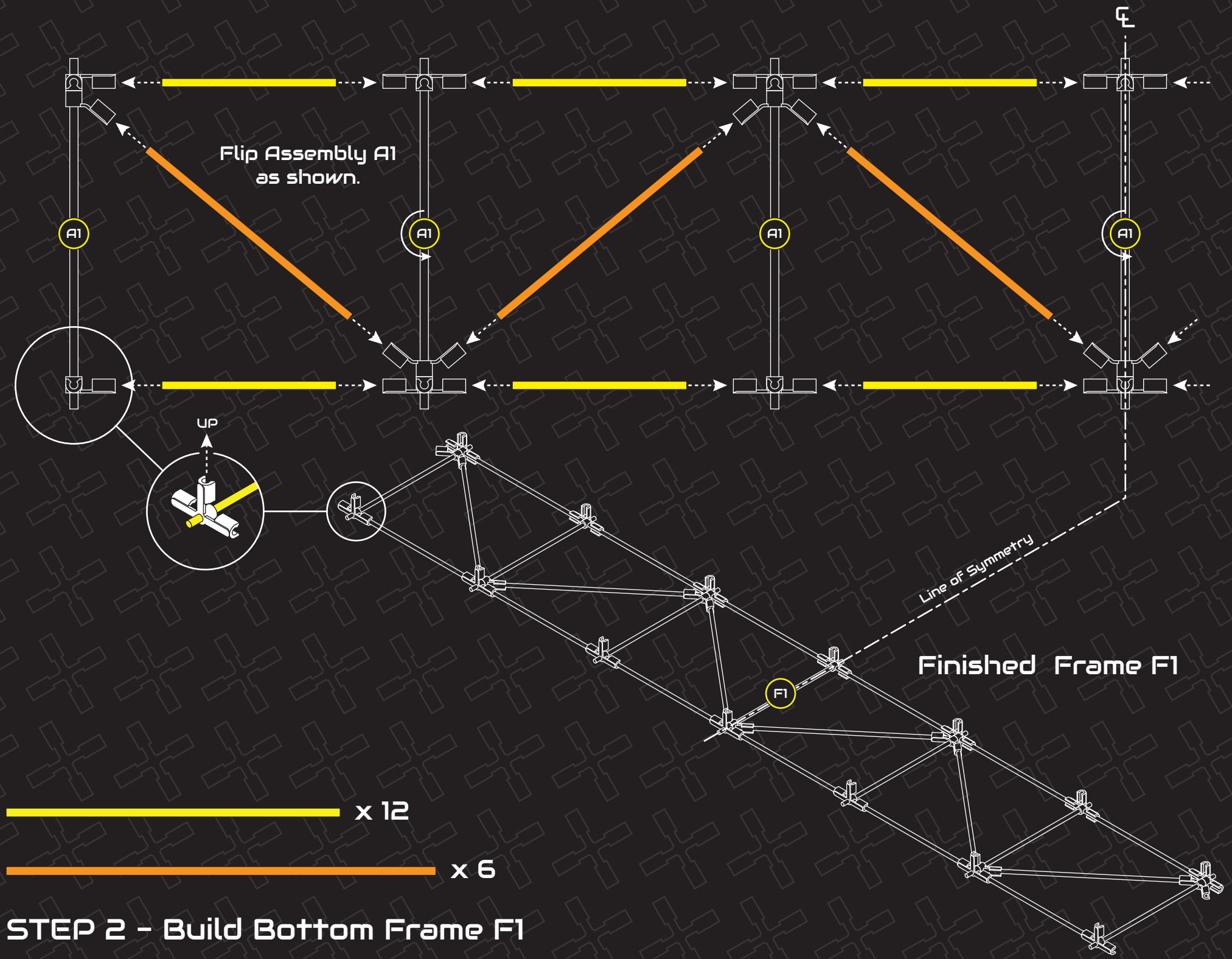



Image A

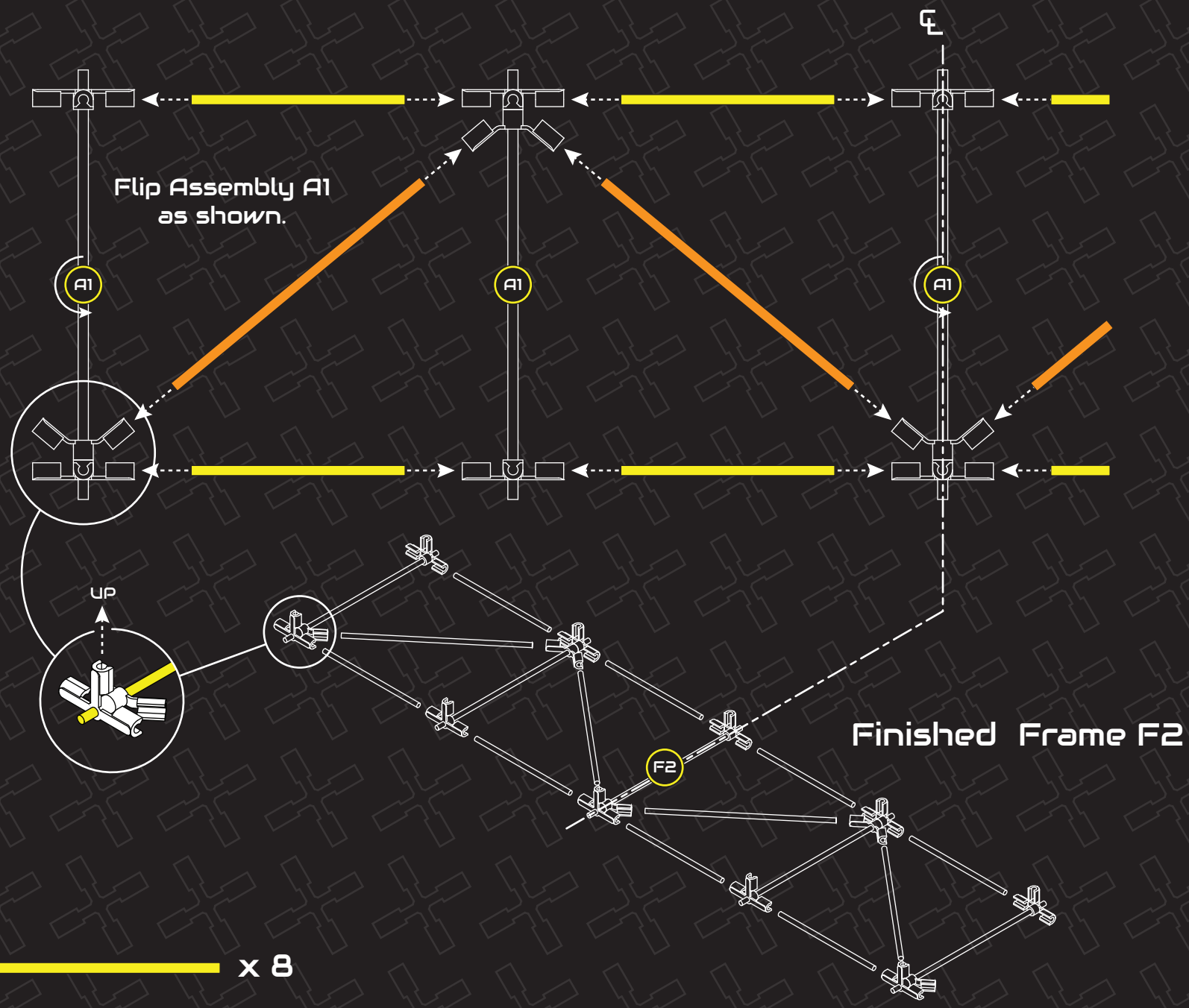



## STEP 1 – Build Assembly A1



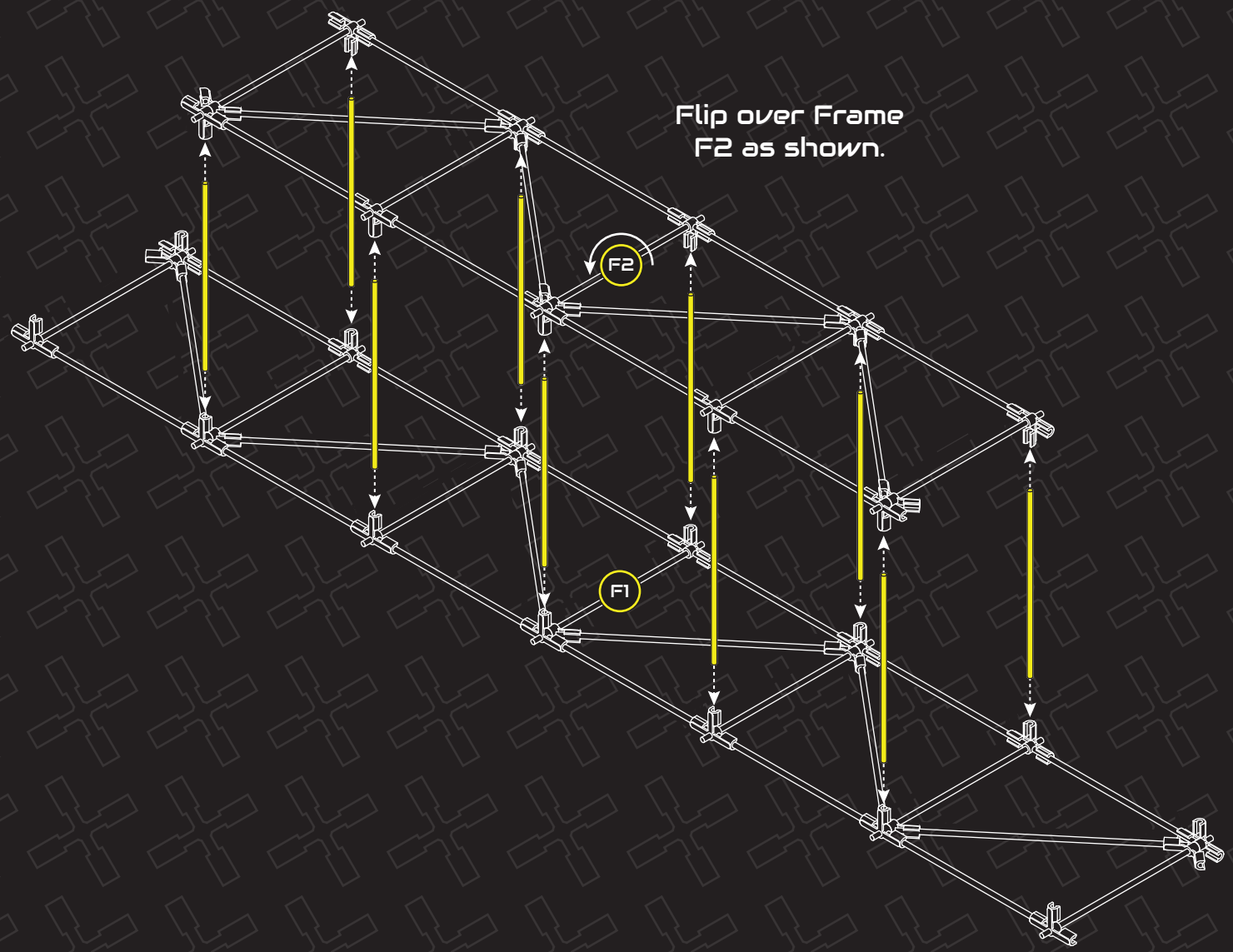

# STEP 2 - Build Bottom Frame F1




x 8

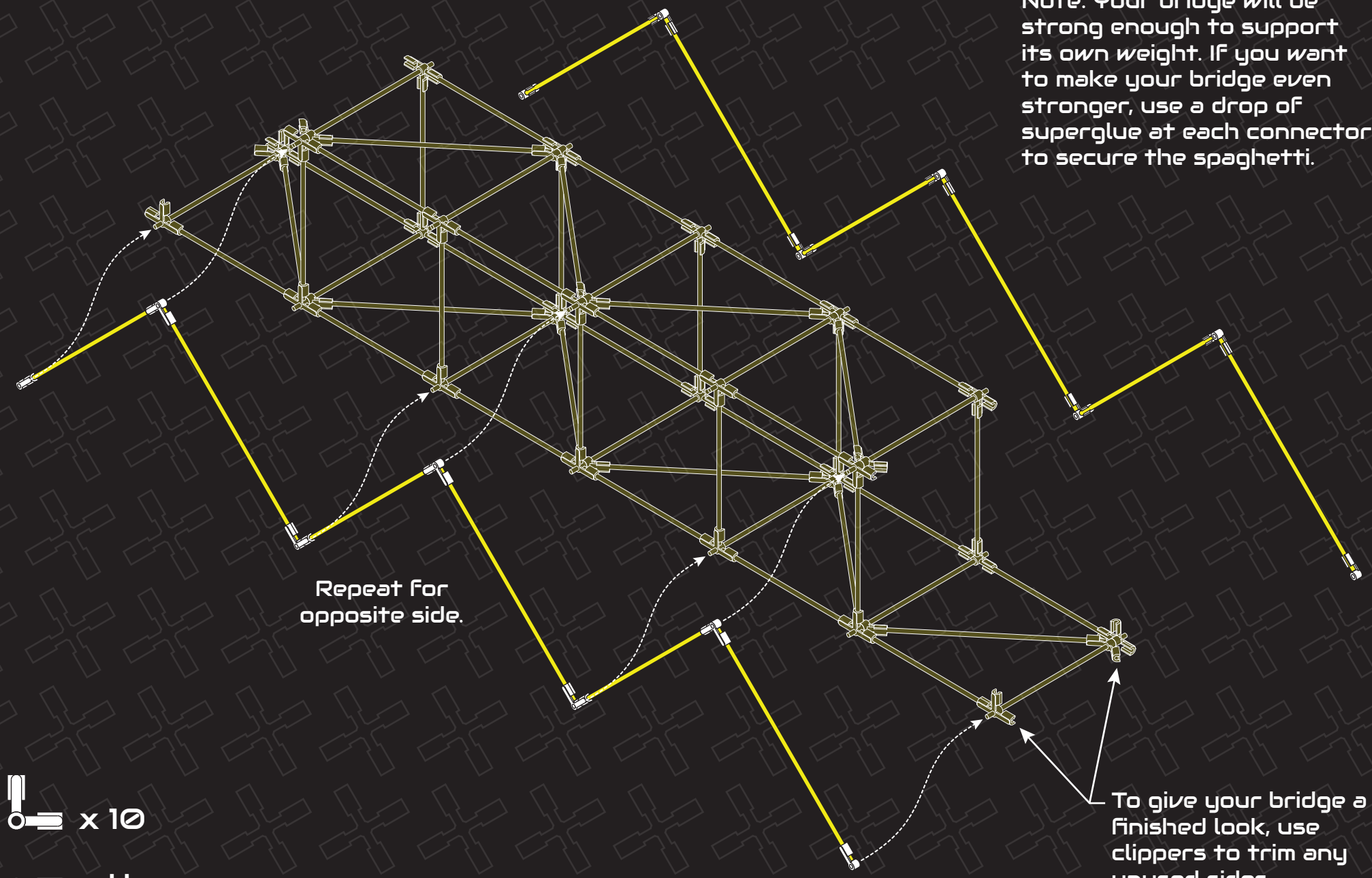
x 4

# STEP 3 - Build Top Frame F2




x 10

## STEP 4 - Connect Top and Bottom Frames




Note: Your bridge will be strong enough to support its own weight. If you want to make your bridge even stronger, use a drop of superglue at each connector to secure the spaghetti.

x 10

x 4

x 12

## STEP 5 - Add Diagonal Bracing