The frame is constructed of P1000 12 gauge Unistrut channel. The joints (points 1, 4, 5, 8, 9, 13, 14, 18) are all attached using P2226 Unistrut corner fittings, and attached with ½ inch Gr. 2 hex bolts and its corresponding channel nut. The additional unistrut pieces used to hold up the laptop, video camera, and the experimental apparatus are attached to the main unistrut frame (at points 2, 3, 6, 7, 10, 11, 12, 15, 16, 17) using a ½ inch Gr. 2 hex bolt and a channel nut.

The experimental apparatus is then connected to this unistrut frame at six places (points 19) using Gr. 2 ½” hex bolts and a channel nut. The experimental apparatus consists of a Lexan test box held together with twelve six-inch 3/8” Gr. 2 nuts and bolts. This assembly is then attached to the 1/2” aluminum 6061 test plate using eight 3/8” stainless steel cap screws (located in positions such as 22) into tapped holes. The parallel bars mount are constructed from aluminum 6061 and attached to the aluminum test plate (at point 20) with two 3/8” stainless steel cap screws and secure the parallel bars with the same 3/8” cap screws. The motor mount is constructed from aluminum 6061 as well and