

# TEAM VISION TARGET CONSTRUCTION



## STEP BY STEP INSTRUCTIONS



## SECTION A – GATHER REQUIRED MATERIALS

1. Polycarbonate Sheet 18" x 12" x 1/8" thick (Qty. 2)
2.  $\frac{3}{4}$ " Plywood (or other available wood)
  - a. 24" x 3-7/8" (Qty. 1)
  - b. 24" x 7-5/8" (Qty. 1)
  - c. 7-5/8" Diameter Half-Circle (Qty 1, shown on page 7)
3. White PVC End Cap for 4" Sewer Pipe (Qty. 1, shown on page 7)
4. Drill
5. Tape Measure
6.  $\frac{3}{32}$ " and  $\frac{1}{4}$ " Drill Bits
7. 1" Drywall Screws or similar (Qty. 20 approx)
8. Hex Bolts  $\frac{1}{4}$ -20 x 1-1/4" Long (Qty. 2, shown on page 7)
9.  $\frac{1}{4}$ " Flat Washers (Qty. 2, shown on page 7)
10. Nut, Lock  $\frac{1}{4}$ -20 (Qty. 2, shown on page 7)
11. Band Saw, Jig Saw or other appropriate cutting device (not shown)
12. Bar Clamp (optional)



## SECTION B – ASSEMBLE PLYWOOD FRAME

1. Position small piece of plywood so that it forms a “T” with the large piece. Small piece should be 3-7/16” from the edge of the large piece.



2. Pre-drill through the larger piece of plywood into the smaller piece to avoid splitting. Attach the two pieces together using screws (Qty. 2). Final Assembly should look like above picture.



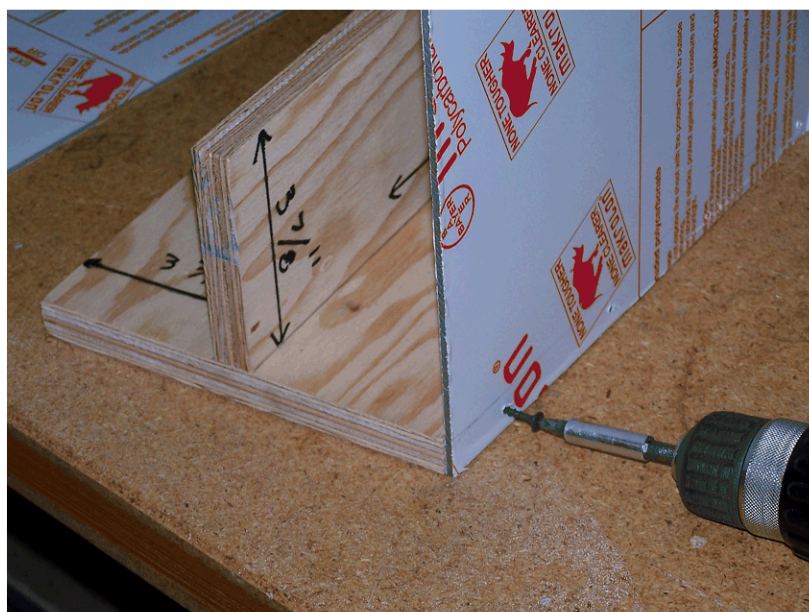


## SECTION C – ATTACH POLYCARBONATE SHEETS

1. Using 3/32" drill bit, pre-drill 4 holes into both sheets of polycarbonate. Holes should be evenly spaced and located approximately 3/8" from the edge that is 12" long (1 edge only per sheet).



2. Attach one of the sheets to the plywood frame using 4 screws (located in the pre-drilled holes from prior picture) as shown. Printed plastic sheet should be facing the outside. Plywood may be pre-drilled to avoid splitting.



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3. Place the assembly so that it is resting on the face of the polycarbonate. "Roll" the plywood frame so that the polycarbonate wraps around the frame, forming a half-circle. Use bar clamp to hold plastic in place. (optional)



4. Using 4 more screws, carefully attach polycarbonate sheet to the second edge of the "T" as shown. Pre-drill to help avoid splitting.





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5. Repeat steps 1-4 for the last piece of polycarbonate. Finished product should look like the picture below.



6. Using a band saw or jig saw (or other appropriate cutting device) carefully trim excess polycarbonate material so that both edges are flush to the plywood. When cut, remove small piece of plywood by removing the two screws holding it to the larger piece (not shown).



## SECTION D – ATTACHING END CAP

1. Position half-round plywood so that its straight edge passes through center of end cap (approximate). Using  $\frac{1}{4}$ " drill bit, carefully drill through both the plywood and the end cap in two places. Attach the two pieces together using  $\frac{1}{4}$  inch hardware.



2. Take the assembly and place it in the vision target as shown. Attach using screws (about 4). Pre-drill to avoid cracking.



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3. Peel printed plastic covering from the polycarbonate. LEAVE THE PLAIN WHITE PLASTIC COVERING ON THE INSIDE. Vision target is now complete.

