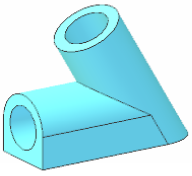
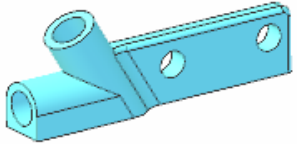
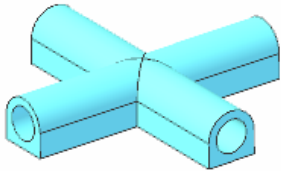
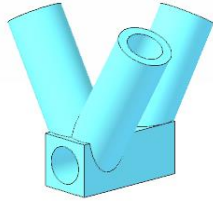
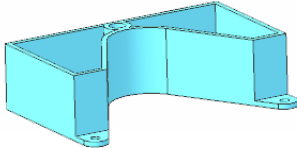
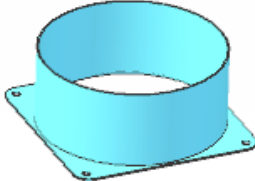
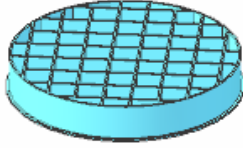
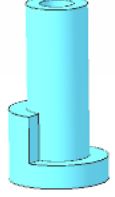
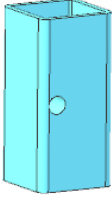
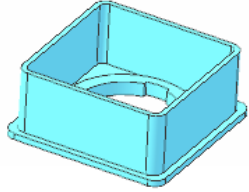
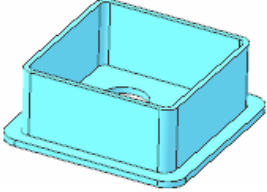
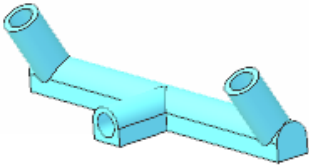
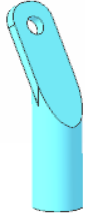


Wind Turbine Challenge 2.0 Parts List

| Item No. | Item | Qty | Description | Image In Optimized Build Orientation | Maximum Layer Thickness | Notes |
|----------|----------------------|-----|--|---|-------------------------|---|
| 1 | Corner Fitting | 2 | Corner fitting for truss |  | 0.010 inch | Holes can be built without supports. They must be drilled to final size, 5/16" for tight fit (alternatively, drill to 21/64" and use glue to secure). Ideally horizontal hole crowns should be spanned normal to the axis of the cylinder. |
| 2 | Corner-Meter Fitting | 1 | Corner fitting for truss with mounts for pin tip jacks |  | 0.010 inch | Holes can be built without supports. They must be drilled to final size, 5/16" (alternatively, drill to 21/64" and use glue to secure). Ideally horizontal hole crowns should be spanned normal to the axis of the cylinder. Holes for Pin Tip Jacks should be drilled to 1/4" dia. |
| 3 | Tee Fitting | 1 | Tee for truss base |  | 0.010 inch | Holes can be built without supports. They must be drilled to final size, 5/16" (alternatively, drill to 21/64" and use glue to secure). Ideally horizontal hole crowns should be spanned normal to the axis of the cylinder. |

| | | | | | | |
|---|---------------|---|---|---|------------|--|
| 4 | Motor Housing | 1 | Motor housing interface to truss |  | 0.010 inch | Holes can be built without supports. They must be drilled to final size, 5/16" (alternatively, drill to 21/64" and use glue to secure). Ideally horizontal hole crowns should be spanned normal to the axis of the cylinder. Motor mount hole should be drilled to match motor OD. Care should be taken not to drill out stops inside motor housing. |
| 5 | Fan Base | 1 | Fan support base and stand interface |  | 0.010 inch | Hole for base tube should be drilled to match base tube, 5/16" dia (alternatively, drill to 21/64" and use glue to secure). |
| 6 | Fan Shroud | 1 | Shrouds fan output |  | 0.010 inch | |
| 7 | Shroud Grill | 1 | Collimates fan output |  | 0.010 inch | |
| 8 | Motor Hub | 1 | Motor interface to printed turbine blades |  | 0.007 inch | Hole should be drilled to match motor spline Start with 9/64" and up to 5/32" dia as required. Take care not to skew the axis centerline. |

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|----|--------------------|---|---|---|------------|--|
| 9 | Switch Box | 1 | Housing for power and switch |  | 0.010 inch | Holes can be built without supports. They must be drilled to final size, 5/16" (alternatively, drill to 21/64" and use glue to secure). Ideally horizontal hole crowns should be spanned normal to the axis of the cylinder. |
| 10 | Switch Box Cover 1 | 1 | Switch cover |  | 0.010 inch | |
| 11 | Switch Box Cover 2 | 1 | Power cover |  | 0.010 inch | |
| 12 | Fan Brace Bottom | 1 | Bottom fan stabilizer and truss interface |  | 0.010 inch | Holes can be built without supports. They must be drilled to final size, 5/16" (alternatively, drill to 21/64" and use glue to secure). Ideally horizontal hole crowns should be spanned normal to the axis of the cylinder. |
| 13 | Fan Brace Top | 2 | Top fan stabilizer and truss interface |  | 0.010 inch | Drill tube interface hole to 5/16" (alternatively, drill to 21/64" and use glue to secure) |
| 14 | Main Tube | 1 | 5/16" OD Fiberglass Tube | | | 16 inches long |

| | | | | | | |
|----|----------------------------|---|---|--|--|-------------------------------|
| 15 | Truss Tube 1 | 2 | 5/16" OD Fibergalss Tube | | | 7 inches long |
| 16 | Truss Tube 2 | 3 | 5/16" OD Fibergalss Tube | | | 5 inches long |
| 17 | Base Tube | 2 | 5/16" OD Fibergalss Tube | | | 2 inches long |
| 18 | Power Supply | 1 | 12v/1amp with 2.1x5.5 mm barrel jack | | | |
| 19 | Motor | 1 | Dromida DIDE1131 | | | |
| 20 | 120mm x 70 CFM Cooling Fan | 1 | 120mm x 70 CFM | | | |
| 21 | Cooling Fan Grill | 1 | Finger guard 120mm | | | |
| 22 | On/Off Switch | 1 | Rocker Switch | | | |
| 23 | Power Jack | 1 | 2.1 x 5.5mm female panel jack | | | |
| 24 | Dual Pin Tip Jack | 1 | BU-P4543-0 | | | |
| 25 | Screws | 1 | Package | | | Cooling Fan Attachment Screws |
| 26 | Multi Meter | 1 | Digital Multi Meter (with 200 mV setting) | | | |
| 27 | Hook Up Wire | 1 | 24 Gauge (Red & Black) | | | |
| 28 | Heat Shrink 1 | 1 | 3/32 inch dia | | | |
| 29 | Heat Shrink 2 | 1 | 3/16 inch dia | | | |
| 30 | Heat Shrink 3 | 1 | 1/4 inch dia | | | #NAME? |