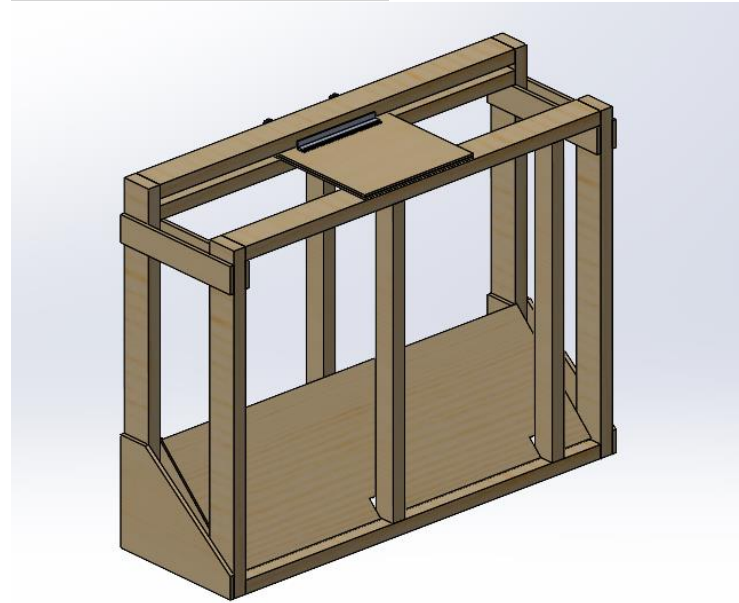


TE-23060 DOUBLE SUBSTATION



Description: This is a Double Substation, designed so that teams can practice collecting game pieces from a Human Player. The following is for one half of a double substation, if you want a full station with two sliders, you will need to double your quantities.

FILES INCLUDED

In this compressed folder, you will find all of the drawings, CAD Files and STEP Files for this design.

Drawings: For your convenience, all drawing files have been exported to PDF Format. Each major field assembly will have both assembly drawings and

component drawings.

CAD Files: All SOLIDWORKS files required to build or modify the assembly.

STEP files: STEP files of the assembly are included for the convenience of non-SOLIDWORKS users.

SHOPPING LIST

Plywood and Lumber (Example Cut List is at end of Readme):

- 4' x 8' x 1/2" Thick Plywood – Less than 1/4 of a Sheet
- 4' x 8' x 1/4" Thick Hardboard – Less than 1/2 of a Sheet
- 2" x 4" x 8' Lumber – 5 Pieces
- 2" x 3" x 8' Lumber – 2 Pieces
- 1" Diameter Wood Dowel (or anything close to this) – 2x 2.5" long Pieces

Hardware:

- #8 Wood Screws x 1.5" long – Approximately 40 Pieces
- #8 Wood Screws x 3" long – Approximately 40 Pieces

Other:

- 2x 3/4" x 3/4" x 10" long aluminum angle bracket
- 2x 10" long pieces of hook side adhesive
- 2x 10" long pieces of loop side adhesive

Notes about materials:

- Plywood and Hardboard Sheets – quality of plywood is up to the user. Plywood of lower qualities may contain voids and may warp more than high quality plywood. All dimensions listed are “nominal”. For example, ½” plywood is typically 15/32”.
- Lumber - quality of lumber is up to the user. Please keep in mind that lumber of lower qualities may warp more than high quality lumber. All dimensions below are the “mill cut” dimensions. For example, 2” x 4” lumber is really 1½” x 3½”.

Example Cut List (All units are Inches):

2x4 Lumber:

Repetition 2x	Stock length 96	Part length / Label 45.75 / TE-23062	Qty 2	Waste Material remnant 4.25 Cut 0.25
		45.75 / TE-23062		
Repetition 1x	Stock length 96	Part length / Label 45.75 / TE-23062	Qty 1	Waste Material remnant 10.937 Cut 0.25
		39.063 / TE-23065		
		45.75 / TE-23062		39.063 / TE-23065
Repetition 1x	Stock length 96	Part length / Label 36.813 / TE-23063	Qty 1	Waste Material remnant 19.874 Cut 0.25
		39.063 / TE-23065		
		36.813 / TE-23063		39.063 / TE-23065
Repetition 1x	Stock length 96	Part length / Label 36.813 / TE-23063	Qty 1	Waste Material remnant 59.062 Cut 0.125
		36.813 / TE-23063		

1/2" Plywood (This could be condensed further, this shows all parts as their max dimensions in a rectangle):

Repetition 1x	Stock dimensions 96 x 48	Panel	Qty
		15.813 x 12 / TE-23069	2
		14.25 x 10.5 / TE-23070	2
		3 x 15.813 / TE-23073	2

1/4" Hardboard (This could be condensed further, this shows all parts as their max dimensions in a rectangle):

Repetition 1x	Stock dimensions 96 x 48	Panel	Qty
		15 x 45.75 / TE-23071	1
		14 x 17.875 / TE-23067	2

2"x3" Lumber:

Repetition 1x	Stock length 96	Part length / Label	Qty	Waste	
		33.813 / TE-23072	2	Material remnant	28.124
				Cut	0.25

Repetition 1x	Stock length 96	Part length / Label	Qty	Waste	
		33.813 / TE-23072	1	Material remnant	62.062
				Cut	0.125