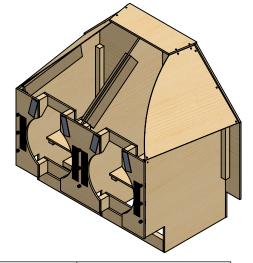
ITEM NO.	PART NUMBER	QTY.
1	TE-19111-01	1
2	TE-19111-02	2
3	TE-19111-03	1
4	TE-19111-04	1
5	TE-19111-05	2
6	TE-19111-06	2
7	TE-19111-07	1
8	TE-19111-08	2
9	TE-19111-09	12
10	TE-19111-10	10
11	TE-19111-11	4
12	TE-19111-12	4
13	TE-19111-13	2
14	TE-19111-14	4
15	TE-19111-15	4
16	TE-19111-16	2
17	TE-19111-17	4
18	TE-19111-20	4
19	TE-19111-21	2
20	Tee nut .375_16	9
21	hex nut375_16	9
22	hex375_16625	9

В

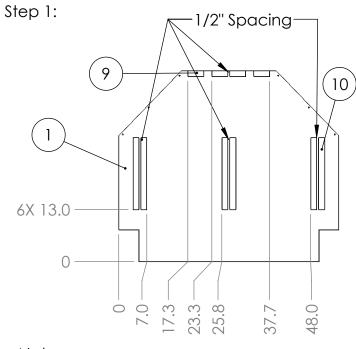


Material	QTY
15/32"(1/2") A/C or CDX Plywood	2 sheets
1/8" Hardboard	.5 sheet
2"x4"x8"	1
2"x 2"x 8'	3
2" hook	83.5"
1.25" wood screws	~100
2.5" wood screws	~40
2" Vison Tape	22"
23/32"(3/4") A/C or CDX Plywood	.25 sheet
TEE nut 3/8"-16	9
Hex nut 38"-16	9
Hex head bolt 3/8"-16 x.625(.75)	9

	APPLIC	CATION	DO NOT SCALE DRAWING				SCALE: 1:24 WEIGHT: SHEET 1 OF 1
OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <i>FIRST</i> ® IS PROHIBITED.	NEXT ASSY	USED ON	FINISH				A TE-19111
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PROPRIETARY AND CONFIDENTIAL			TOLERANCING PER:	COMMENTS:			
			INTERPRET GEOMETRIC	Q.A.			
			THREE PLACE DECIMAL ±.001	MFG APPR.			Sargorioni
			ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01	ENG APPR.			Cargo Front
			TOLERANCES: FRACTIONAL±1/16	CHECKED			TITLE:
			DIMENSIONS ARE IN INCHES	DRAWN			ROBOTICS SOLIDWORKS COMPETITION SOLIDWORKS Modeling Solutions Partner
			UNLESS OTHERWISE SPECIFIED:		NAME	DATE	FIRST. ROBOTICS 25 SOLIDWORKS

В

A



Note:

B

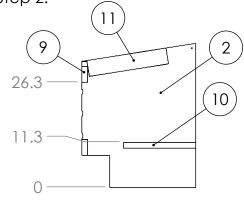
flush to the top of (1) -Attach(9 as shown using 1.25" screws.

-Attach(10) to (as shown using 1.25" screws.

- -Leave enough room for 1/2" plywood where indicated.
- -Pre-drill for all hardware.

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Step 2:



Note:

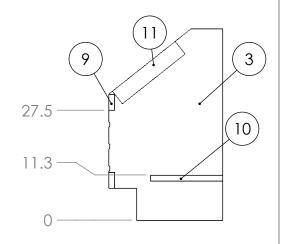
flush to front of (2 - Attach (

flush to the top - Attach (

- Attach (10 to

- Pre-drill all holes and use and 1.25" screws
- Create mirrored version of this assembly.

Step 3:



Note:

flush to front of (- Attach

flush to angle (3 - Attach

10 - Attach to (

- Pre-drill and attach items using 1.25" and 2.5" screws
- Repeat on opposite side.

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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES **TOLERANCES:** FRACTIONAL±1/16 ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.001 INTERPRET GEOMETRIC Q.A. TOLERANCING PER: COMMENTS: MATERIAL FINISH **USED ON NEXT ASSY** APPLICATION DO NOT SCALE DRAWING

NAME DATE DRAWN TITLE: CHECKED ENG APPR. MFG APPR.

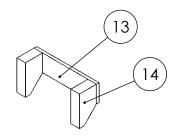
S SOLIDWORKS

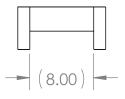
Cargo Front

SIZE DWG. NO. **REV** TE-19111 SCALE: 1:24 WEIGHT: SHEET 2 OF 13

B



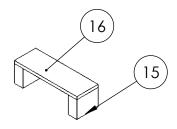




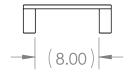
Notes:

- Attach(13) to (14) as shown
- Pre-drill and use 1.25" screws.

Step 5: QTY 2



В



Notes:

- Attach (16) to (15) as shown.
- Pre-drill and use 1.25" screws.

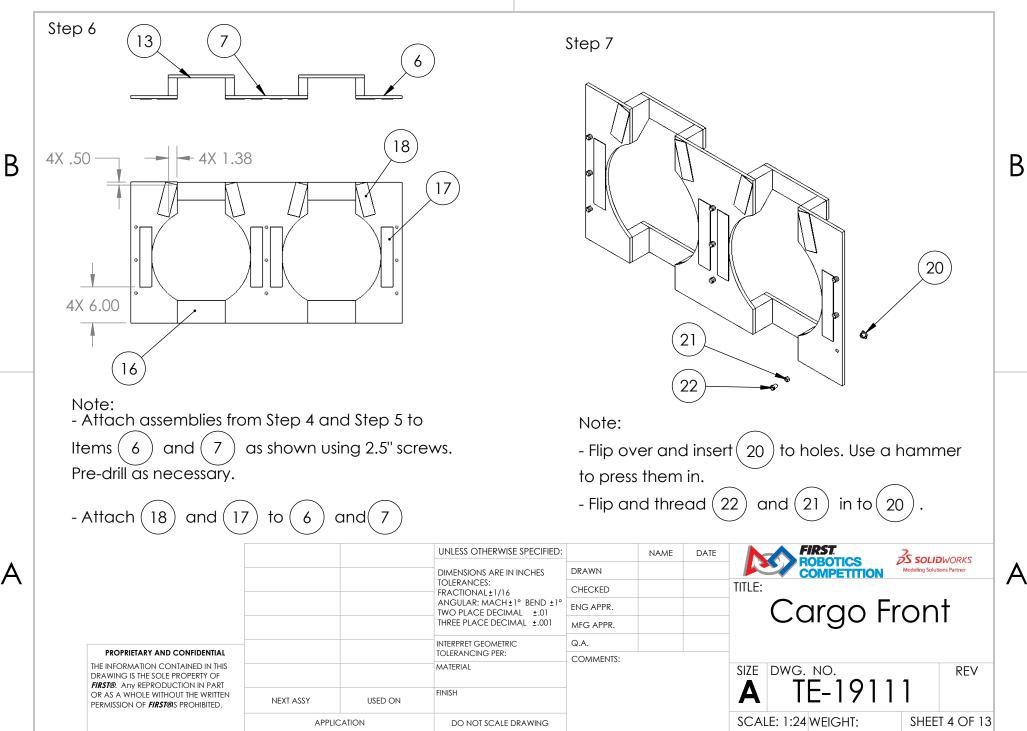
			UNLESS OTHERWISE SPECIFIED:		NAME	DATE	FIRST.	S SOLIDWORKS	
			DIMENSIONS ARE IN INCHES	DRAWN				Modeling Solutions Partner	
_			TOLERANCES: FRACTIONAL ± 1/16	CHECKED			TITLE:		
			ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01	ENG APPR.			Cargo Front		
			THREE PLACE DECIMAL ±.001	MFG APPR.			Cargoni	OHI	
PROPRIETARY AND CONFIDENTIAL			INTERPRET GEOMETRIC	Q.A.					
			TOLERANCING PER:	COMMENTS:					
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	APPLIC	CATION	DO NOT SCALE DRAWING				SCALE: 1:24 WEIGHT:	SHEET 3 OF 13	

A

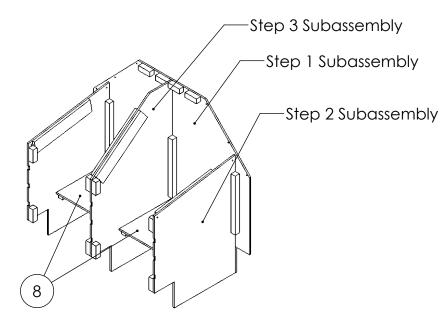
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2

1



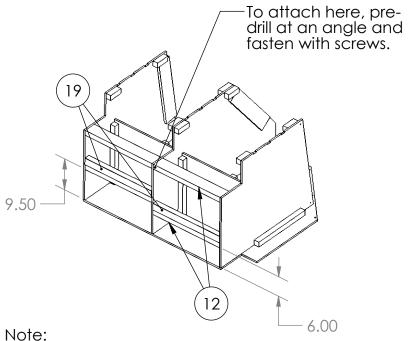




Note:

- Insert subassemblies from Steps 2 and 3 into subassembly from Step 1 as shown. Secure with 2.5" screws.
- on to the supports. Secure with - Place Item (1.25" screws.
- Pre-drill as necessary.

Step9:



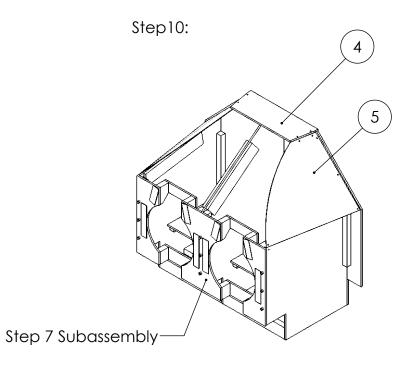
- Attach Item (12) as shown, using 2.5" scews. 4 Places.
- Add Item (19) to bottom of Item (12)

			UNLESS OTHERWISE SPECIFIED:		NAME	DATE	FIRST 25 SOLIDWORKS
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			TOLERANCES: FRACTIONAL±1/16	CHECKED			TITLE:
			ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01	ENG APPR.			Cargo Front
			THREE PLACE DECIMAL ±.001	MFG APPR.			Cargo Horn
PROPRIETARY AND CONFIDENTIAL			INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			
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	NEXT ASSY	USED ON	FINISH				A TE-19111
	APPLI	CATION	DO NOT SCALE DRAWING				SCALE: 1:24 WEIGHT: SHEET 5 OF 13

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В





- Note:
 Attach subassembly from Step 7 as shown using 1.25" screws.
- Attach Item (4) using 1.25" screws.
- Attach (5) with cable ties.

			UNLESS OTHERWISE SPECIFIED:		NAME	DATE	FIRST. ROBOTICS	3S SOLID WORKS
			DIMENSIONS ARE IN INCHES	DRAWN			COMPETITION	Modeling Solutions Partner
_			TOLERANCES: FRACTIONAL ± 1/16	CHECKED			TITLE:	
			ANGULAR: MACH±1° BEND ±1° TWO PLACE DECIMAL ±.01	ENG APPR.			Cargo F	ront
		THREE PLACE DECIMAL ±.001	MFG APPR.			Cargon		
			INTERPRET GEOMETRIC	Q.A.				
PROPRIETARY AND CONFIDENTIAL			TOLERANCING PER:	COMMENTS:				
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FIRST®. ANY REPRODUCTION IN PART			MATERIAL				SIZE DWG. NO.	REV
OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF FIRST® IS PROHIBITED.	NEXT ASSY	USED ON	FINISH				A TE-1911	I
	APPLIC	CATION	DO NOT SCALE DRAWING				SCALE: 1:24 WEIGHT:	SHEET 6 OF 13

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