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Frame Assembly WorkFlow

Version 1.0

Change History Log:

VERSION #	REVISION DATE	DESCRIPTION OF CHANGE	
		FROM	TO
1.0	11/27/2020	Original Release	

I. Purpose:

This Workflow is intended to serve as a guide in assembling the Frame of the Oxikit. The Frame is the main supporting structure of the Oxikit to which, it holds all other components of the Kit in place.

II. Scope:

This guideline applies to all individuals who wish to build the DIY Oxikit. It includes the Materials, tools and the Video Link needed in assembling the Frame.

III. Pictures and Schematic Drawings:

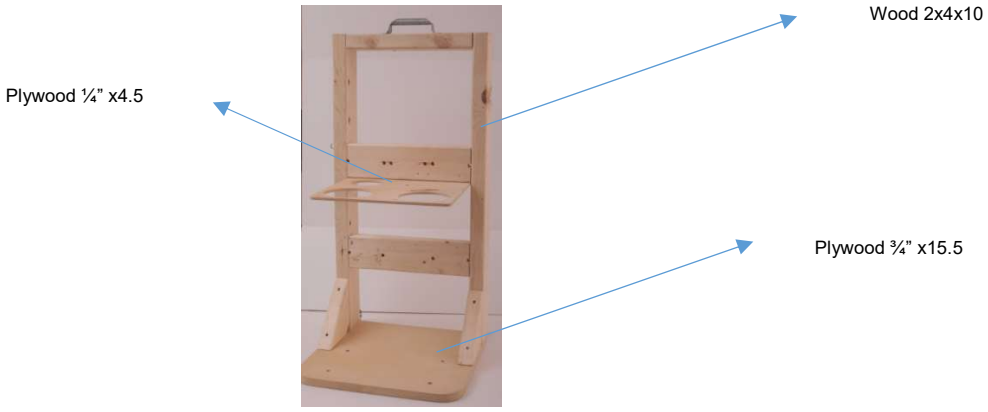

Fig 1.0 (Frame Complete Assembly)

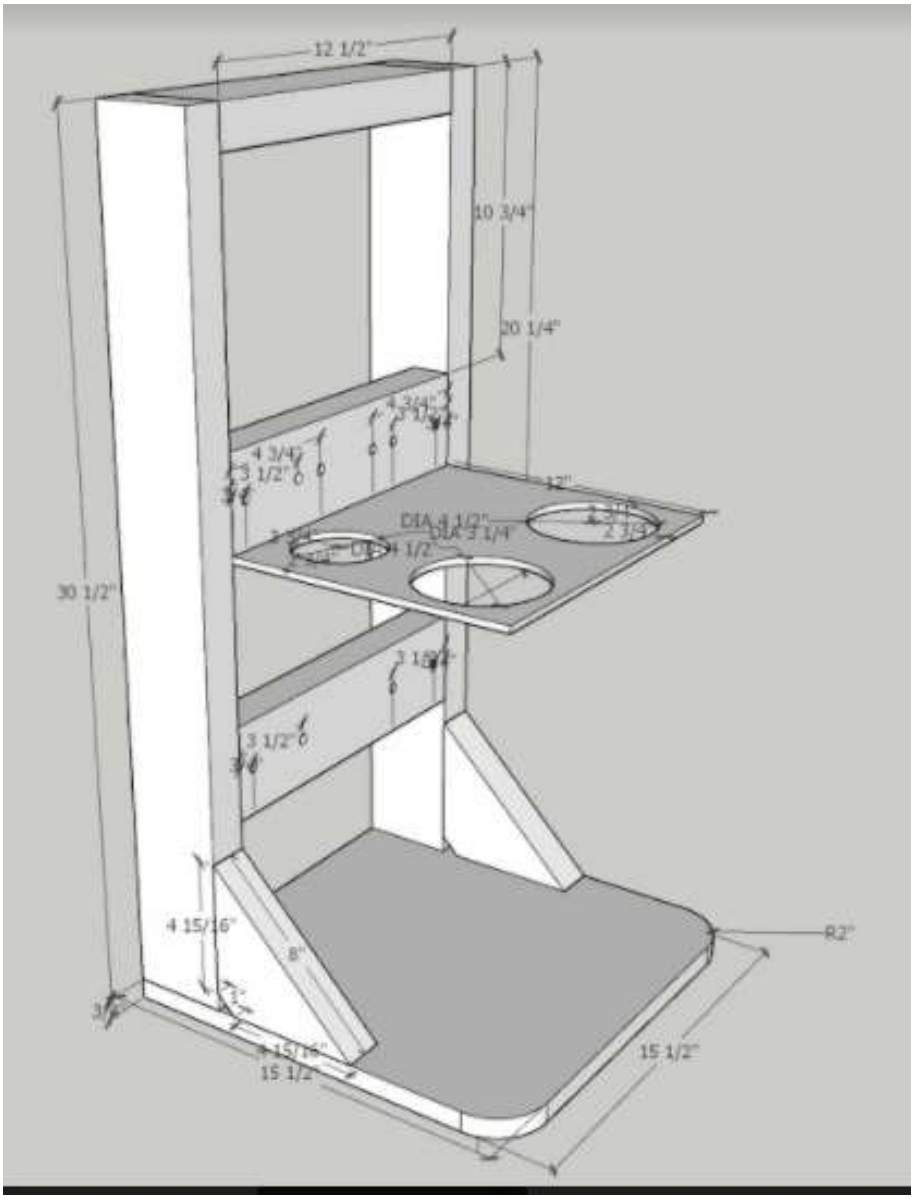

Fig. 2.0(Measurements for the whole frame)

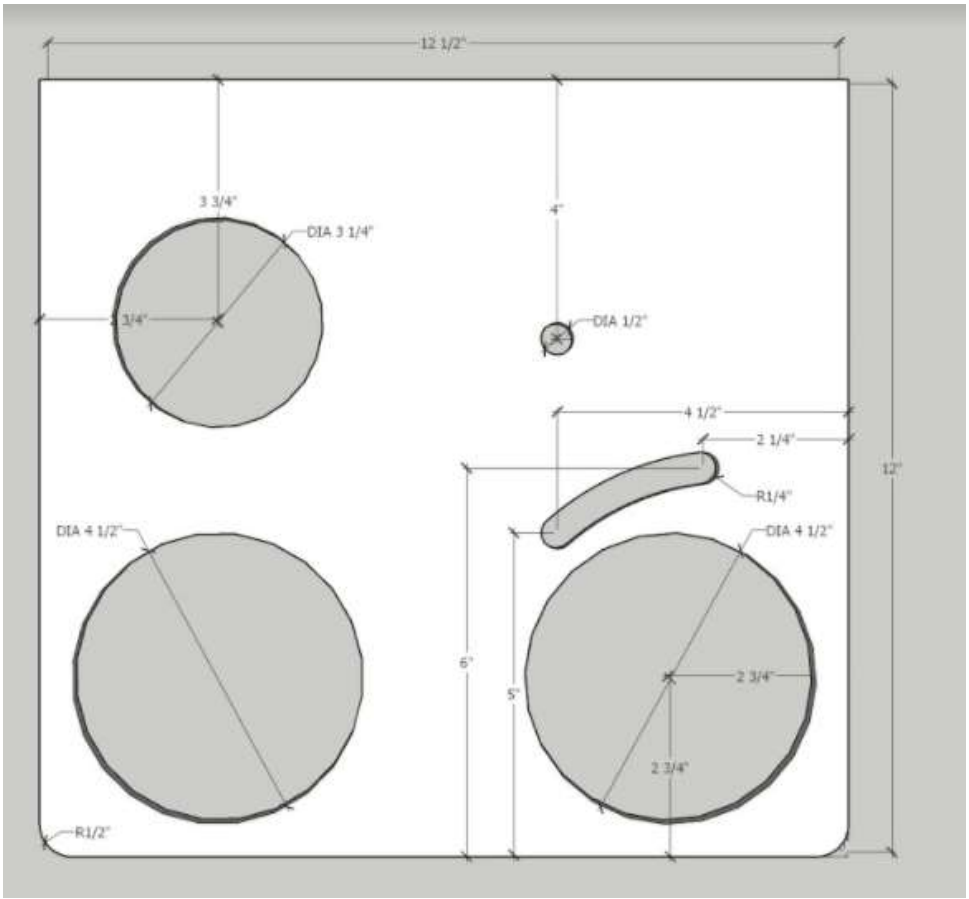

Fig. 3.0(Measurement for the Fan Deck Board)

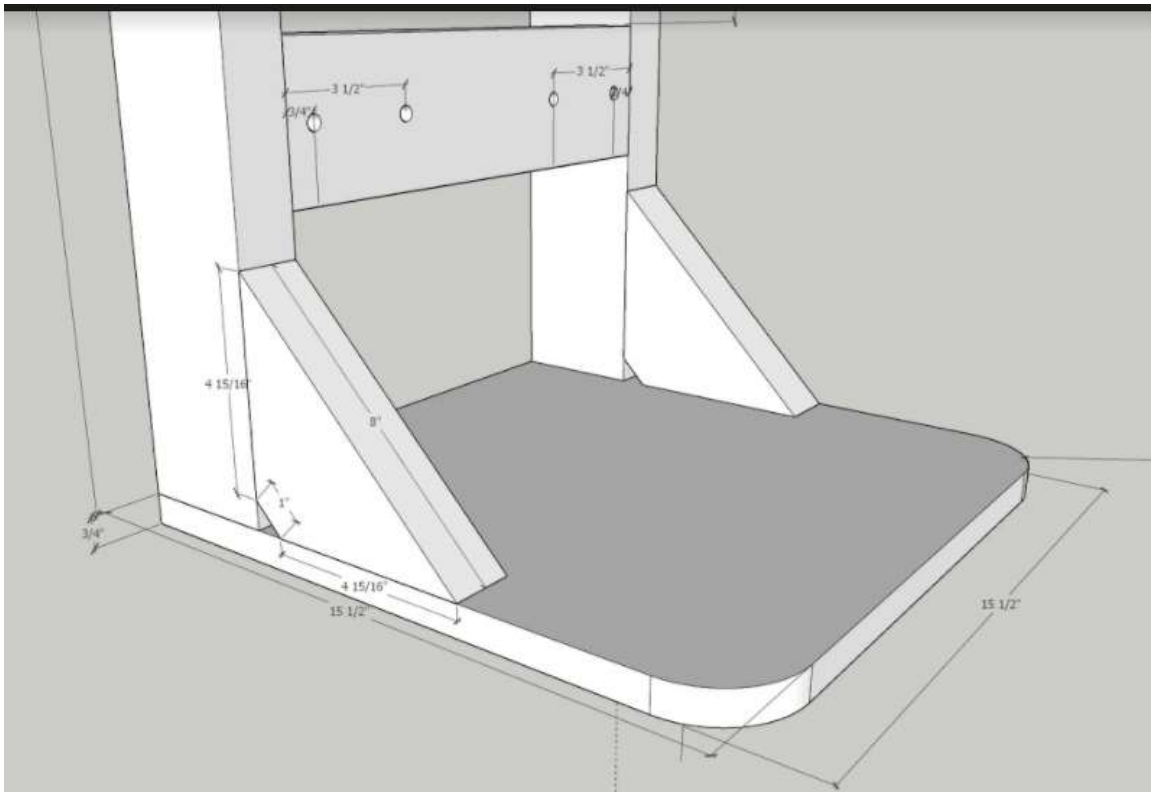

Fig. 4.0 (Measurements for the Base Board and Angle Piece)

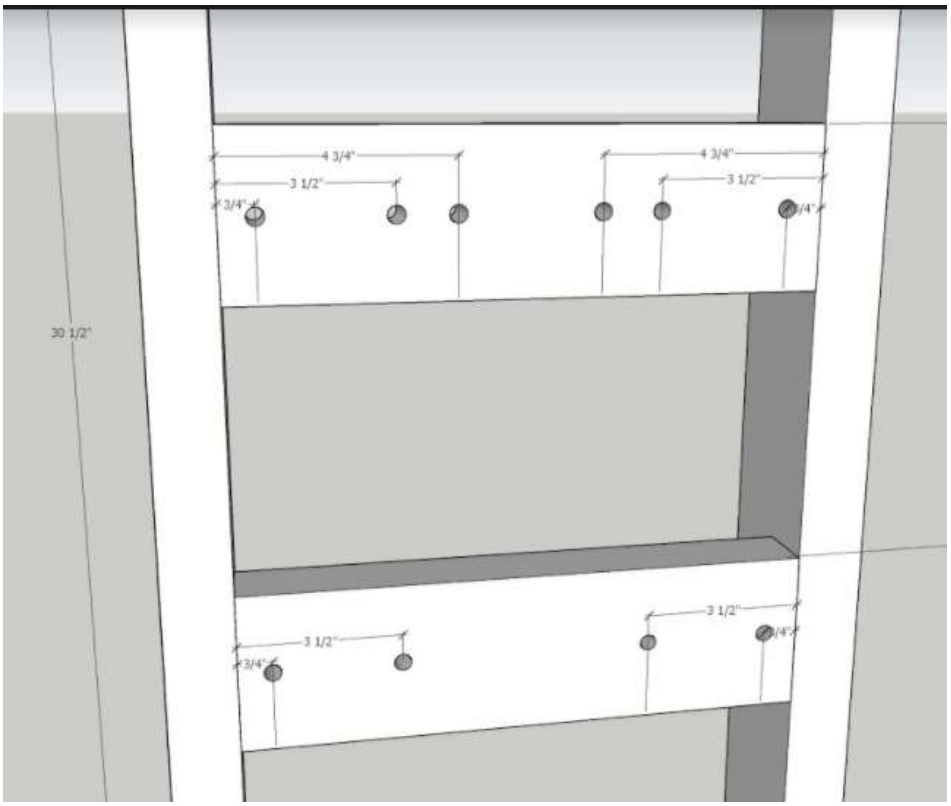

Fig. 5.0 (Measurements for Cross Pieces)

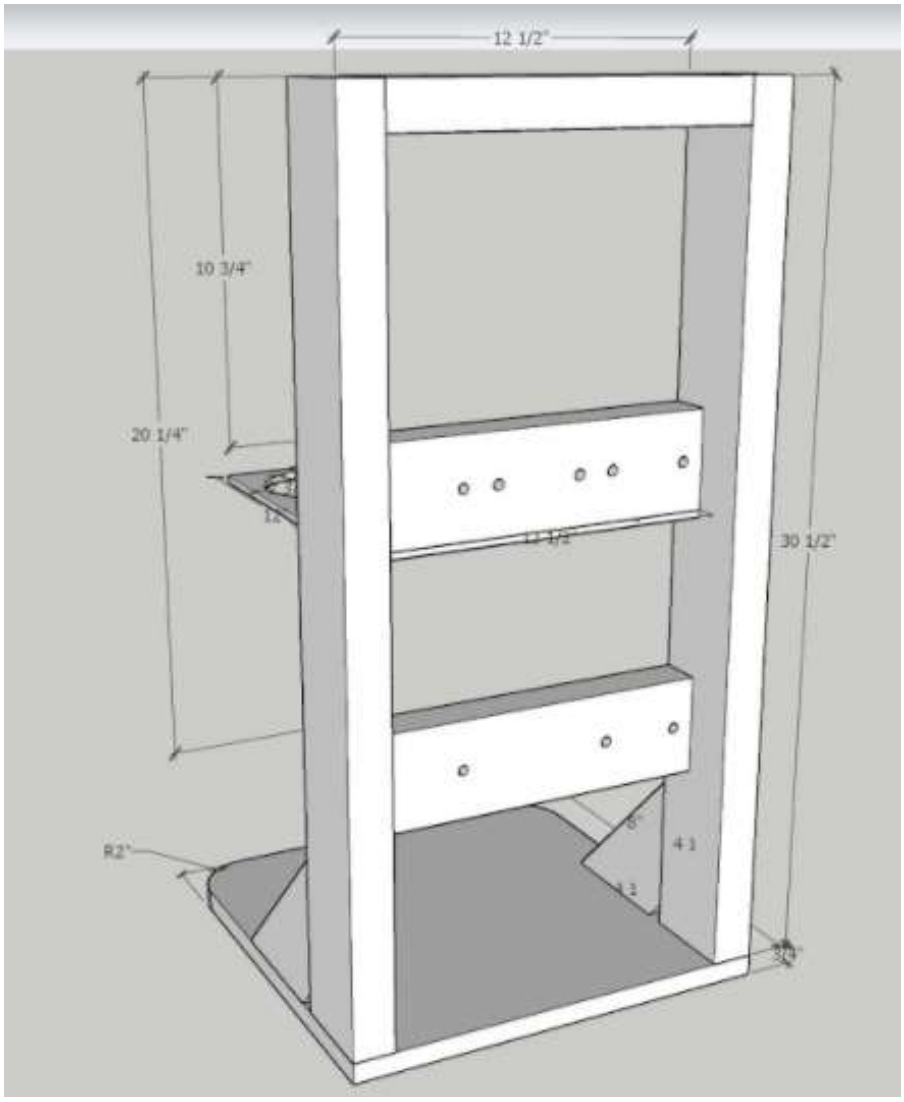

Fig. 6.0 (Measurements for Side frame)

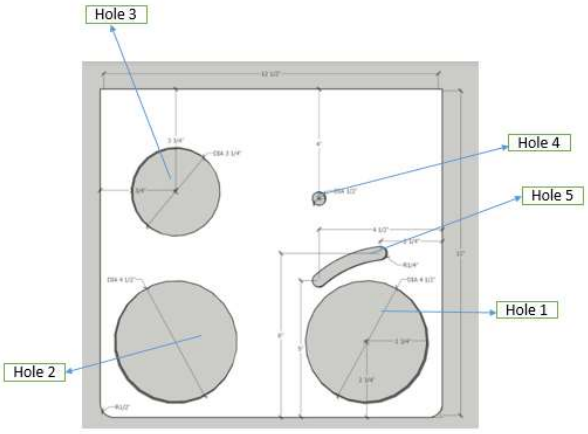

Fig.7.0 (Hole Assignment for Fan Deck Board)

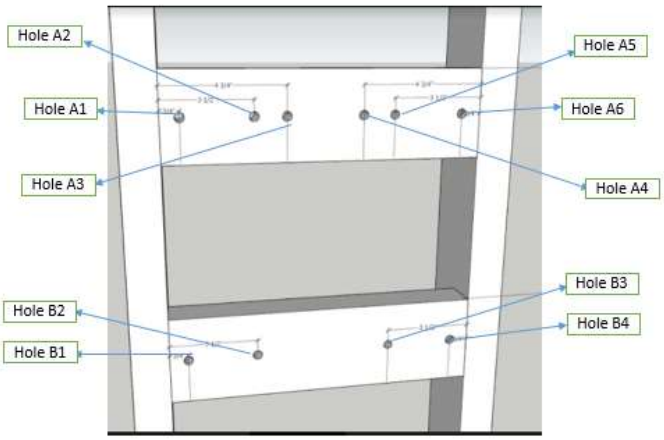

Fig.8.0 (Hole Assignment for Cross Pieces)

FIGURE SUMMARY		
FIGURE #	DESCRIPTION	REMARKS
1	Frame Complete Assembly	Describes the parts needed to assemble the Frame
2	Measurements for the whole frame	
3	Measurement for Fan Deck Board	
4	Measurements for Base Board and Angle Pieces	
5	Measurements for Cross Pieces	
6	Measurements for Side Frame	
7	Hole Assignment for Fan Deck Board	Holes that are described in the workflows
8	Hole Assignment for Cross Pieces	Holes that are described in the workflows

IV. Safety Operating Conditions:

- Always wear protective gloves

V. Workflows

- Please see next page for the step by step guidelines in making the Frame Assembly

Step	Process	Material	Tools	Youtube Link
1	Measure and label Wood 30.5" long. This is for the side frame	Name: Wood 2x4x10; Description: 2x4x10; Metric Conversion: 52xmmx101mmx254mm; Unit of Measure: Piece Name: 2x4 Mother Box; Description: 2x4 Mother Box; Metric Conversion: 52xmmx101mm; Unit of Measure: Piece	Measuring Tape Tri Square Pencil Ruler	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69
2	Cut the wood as labelled in Step 1	Name: Wood 2x4x10; Description: 2x4x10; Metric Conversion: 52xmmx101mmx254mm; Unit of Measure: Piece Name: 2x4 Mother Box; Description: 2x4 Mother Box; Metric Conversion: 52xmmx101mm; Unit of Measure: Piece	Saw	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link

Step 3

Process: Make another Side Frame as per step 1 and 2

Name	Description	Metric Conversion	Unit of Measure
Wood 2x4x10	2x4x10	52xmmx101mm x254mm	Piece
2x4 Mother Box	2x4 Mother Box	52xmmx101m m	Piece

Tools:
- Measuring Tape
- Tri Square
- Pencil
- Ruler
- Saw

Youtube Link: https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step 4

Process: Measure and label another Wood 12.5" long. This is for the Cross Piece of the Frame

Name	Description	Metric Conversion	Unit of Measure
Wood 2x4x10	2x4x10	52xmmx101mm x254mm	Piece
2x4 Mother Box	2x4 Mother Box	52xmmx101m m	Piece

Tools:
- Measuring Tape
- Tri Square
- Pencil
- Ruler

Youtube Link: https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link

5	Cut the wood as labelled in Step 4	Name / Description / Metric Conversion / Unit of Measure Wood 2x4x10 / 2x4x10 / 52xmmx101mmx254mm / Piece 2x4 Mother Box / 2x4 Mother Box / 52xmmx101mm / Piece	Saw	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69
6	Make 2 more Cross Pieces as per step 4 and 5	Name / Description / Metric Conversion / Unit of Measure Wood 2x4x10 / 2x4x10 / 52xmmx101mmx254mm / Piece 2x4 Mother Box / 2x4 Mother Box / 52xmmx101mm / Piece	Measuring Tape Tri Square Pencil Ruler Saw	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link

7	Label and Measure the angle pieces. 8" diagonally x 4 15/16"(base) x 4 15/16" (altitude). Please see Fig 4.0 for the dimension	Name	Description	Metric Conversion	Unit of Measure	Measuring Tape Tri Square Pencil Ruler	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69
		Wood 2x4x10	2x4x10	52xmmx101mmx254mm	Piece		
		2x4 Mother Box	2x4 Mother Box	52xmmx101mm	Piece		
8	Cut the wood as labelled in Step 7. Ensure the Base angle of the Angle piece is 1” as per shown in Fig 4.0	Name	Description	Metric Conversion	Unit of Measure	Saw Wood Clamp	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69
		Wood 2x4x10	2x4x10	52xmmx101mmx254mm	Piece		
		2x4 Mother Box	2x4 Mother Box	52xmmx101mm	Piece		

Step	Process	Material	Tools	Youtube Link
9	Make another Angle piece as per step 7 and 8	Name: Wood 2x4x10; Description: 2x4x10; Metric Conversion: 52xmmx101mmx254mm; Unit of Measure: Piece Name: 2x4 Mother Box; Description: 2x4 Mother Box; Metric Conversion: 52xmmx101mm; Unit of Measure: Piece	Measuring Tape Tri Square Pencil Ruler Saw Wood Clamp	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69
10	Measure and label Plywood 15.5" x15.5". This is for the base of the frame. Please see Fig 4.0 for the dimension	Name: Plywood 3/4x15.5; Description: 3/4" MDF 15.5" x 15.5" (Can also use Plywood); Metric Conversion: 19mm MDF 394 mmx 394mm (Can also use Plywood); Unit of Measure: Piece	Measuring Tape Pencil Ruler	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link

11	Cut the wood as labelled in Step 10	Name: Plywood 3/4x15.5 Description: 3/4" MDF 15.5" x 15.5" (Can also use Plywood) Metric Conversion: 19mm MDF 394 mmx 394mm (Can also use Plywood) Unit of Measure: Piece	Saw Wood Clamp	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

12	Smooth the sides of the Plywood	Name: Plywood 3/4x15.5 Description: 3/4" MDF 15.5" x 15.5" (Can also use Plywood) Metric Conversion: 19mm MDF 394 mmx 394mm (Can also use Plywood) Unit of Measure: Piece	Sand Paper	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link

13	Mark and label grounded corners on the 2 sides of the board with approximately 1/2" (or any small circular container as a marker)	Name: Plywood 3/4x15.5 Description: 3/4" MDF 15.5" x 15.5" (Can also use Plywood) Metric Conversion: 19mm MDF 394 mmx 394mm (Can also use Plywood) Unit of Measure: Piece	Pencil Ruler Circular Container	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

14	Cut the labelled grounded corners in step 13	Name: Plywood 3/4x15.5 Description: 3/4" MDF 15.5" x 15.5" (Can also use Plywood) Metric Conversion: 19mm MDF 394 mmx 394mm (Can also use Plywood) Unit of Measure: Piece	Saw	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link

Name	Description	Metric Conversion	Unit of Measure
Plywood 3/4x15.5	3/4" MDF 15.5" x 15.5" (Can also use Plywood)	19mm MDF 394 mmx 394mm (Can also use Plywood)	Piece

Step	Process	Tools	Youtube Link
15	Smooth the newly Cut sides	Sand Paper	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Name	Description	Metric Conversion	Unit of Measure
Plywood 1/4"x 4.5	1/4" MDF 6" x 4.5" (Can also use Plywood)	6mm MDF 152mm x 114 (Can also use Plywood)	Piece

Step	Process	Tools	Youtube Link
16	Measure and label Plywood 12.5" x12.5" for the Fan Deck base. Please see Fig 3.0 for the dimensions	Measuring Tape Pencil Ruler	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link
17	Cut as labelled in Step 16	Name: Plywood 1/4"x 4.5" Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Saw Wood Clamp	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69
18	Smooth the sides of the Plywood	Name: Plywood 1/4"x 4.5" Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Sand Paper	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link
19	Measure and label **centers of the circles** for the fan decks holes, 2 3/4" from the bottom and from the sides of the board. These holes are considered Hole 1 (with the Coil) and 2. Please Refer to Fig 3, for the Fan deck Dimensions and Fig 7.0 for the Hole assignment	Name: Plywood 1/4"x 4.5 Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Pencil Ruler	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69
20	Measure and label the circles of the 2 fan decks holes (2 1/4" radius). These holes are considered Hole 1 (with the Coil) and 2. Please Refer to Fig 3, for the Fan deck Dimensions and Fig 7.0 for the Hole assignment	Name: Plywood 1/4"x 4.5 Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Pencil Ruler Compass	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link
21	Measure and label center of the circle for the bubbler hole, 3 3/4" from the top and from the left side of the board. This hole is considered hole 3. Measure and label the circles of the 2 fan decks holes (2 1/4" radius). These holes are considered Hole 1 (with the Coil) and 2. Please Refer to Fig 3, for the Dimensions and Fig 7.0 for the Hole assignment	Name: Plywood 1/4"x 4.5 Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Pencil Ruler	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69
22	Measure and label the circle of the bubbler hole (5/8" radius). Please Refer to Fig 3, for the Dimensions and Fig 7.0 for the Hole assignment	Name: Plywood 1/4"x 4.5 Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Pencil Ruler Compass	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link
23	Drill one hole inside the circles of the fan deck and Bubbler	Name: Plywood 1/4"x 4.5 Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Drill Bit Machine Drill Bit 1/2"	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69
24	Insert the Coping Saw and cut the circles from the labelled circles in Step 20 and 22	Name: Plywood 1/4"x 4.5 Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Coping Saw Drill Bit Machine Drill Bit 1/2" Wood Clamp Hole Hawg Hole Saw	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link
25	Smooth the newly Cut circles	see table below	Sand Paper	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Name	Description	Metric Conversion	Unit of Measure
Plywood 1/4"x 4.5	1/4" MDF 6" x 4.5" (Can also use Plywood)	6mm MDF 152mm x 114 (Can also use Plywood)	Piece

Step	Process	Material	Tools	Youtube Link
26	Mark and label grounded corners on the 2 sides of the Fan Deck Board (near Hole 1 and 2) with approximately 1/2"(or any small circular container as a marker).	see table below	Pencil Ruler Circular Container	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Name	Description	Metric Conversion	Unit of Measure
Plywood 1/4"x 4.5	1/4" MDF 6" x 4.5" (Can also use Plywood)	6mm MDF 152mm x 114 (Can also use Plywood)	Piece

Step	Process	Material	Tools	Youtube Link
27	Cut the labelled grounded corners in step 26	Name: Plywood 1/4"x 4.5 Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Saw	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69
28	Smooth the newly Cut sides	Name: Plywood 1/4"x 4.5 Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Sand Paper	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link
29	Measure and label the Hole slot for the exit point of the coil. This is considered as Hole 5 1/4" radius; Right slot of the hole: 2 1/4" (from the right end of the frame) X 6" (from the bottom portion of the frame) Left slot hole: 4 1/2" (from the right end of the frame) x 5" (from the bottom portion of the frame). Please Refer to Fig 3, for the Dimensions and Fig 7.0 for the Hole assignment	Name: Plywood 1/4"x 4.5 Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Pencil Ruler Compass	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69
30	Drill the center points in Step 29	Name: Plywood 1/4"x 4.5 Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Drill Bit 1/2" Drill Bit Machine	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link

31	Mark and connect (with bend) the newly Drilled center Points from Step 30. As per shown in Fig 3.0	Name: Plywood 1/4"x 4.5 Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Pencil Ruler	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

32	Cut as labelled in Step 31	Name: Plywood 1/4"x 4.5 Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Coping Saw	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link
33	Smooth the newly Cut sides	Name: Plywood 1/4"x 4.5 Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Sand Paper	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69
34	Measure and label another hole. This is considered as Hole 4 4" from the top portion of the frame; 1/2" Diameter. Please see Fig 3.0 for the dimension and Fig. 4 for the Hole Assignment.	Name: Plywood 1/4"x 4.5 Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Compass Pencil Ruler	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link
35	Cut as labelled in Step 34	Name: Plywood 1/4"x 4.5 Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Coping Saw	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69
36	Smooth the newly slots	Name: Plywood 1/4"x 4.5 Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Sand Paper	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link

37	Measure and Label the holes for the wire tie in the Cross piece (middle portion) from Step 4-6. Hole A1: 3/4" from the left side, 1 3/4" from the top; HoleA2: 3 1/2" from the left side, 1 3/4" from the top; Hole A3: 4 3/4" from the left side, 1 3/4" from the top; Hole A4: 4 3/4" from the right side, 1 3/4" from the top; Hole A5: 3 1/2" from the right side, 1 3/4" from the top; Hole A6: 3/4" from the right side, 1 3/4" from the top Please see Fig.5.0 for the Dimension and Fig 8.0 for the Hole assignment	Name	Description	Metric Conversion	Unit of Measure	Pencil Ruler	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69
		Wood 2x4x10	2x4x10	52xmmx101mmx254mm	Piece		
38	Measure and label the holes for the wire tie in the Cross piece(Bottom portion) from Step 4-6. Hole B1: 3/4" from the left side, 1 3/4" from the top;Hole B2: 3 1/2" from the left side, 1 3/4" from the top; Hole B3: 3 1/2" from the right side, 1 3/4" from the top; Hole B4: 3/4" from the right side, 1 3/4" from the top. Please see Fig.5.0 for the Dimension and Fig 8.0 for the Hole assignment	Name	Description	Metric Conversion	Unit of Measure	Pencil Ruler	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69
		Wood 2x4x10	2x4x10	52xmmx101mmx254mm	Piece		

Step	Process	Material	Tools	Youtube Link
39	Punch all Marked holes in step 36 and 37	Name: Wood 2x4x10 | Description: 2x4x10 | Metric Conversion: 52xmmx101mmx254mm | Unit of Measure: Piece	Philips Hex Screw Driver	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69
40	Drill the center points in Step 39	Name: Wood 2x4x10 | Description: 2x4x10 | Metric Conversion: 52xmmx101mmx254mm | Unit of Measure: Piece	Drill Bit 1/2" Drill Bit Machine	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link
41	Smooth the holes	Name: Wood 2x4x10; Description: 2x4x10; Metric Conversion: 52xmmx101mmx254mm; Unit of Measure: Piece	Sand Paper	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69
42	Mark and label the two side frames, where the middle and bottom Cross Pieces will be attached. Measure from the Top 10 3/4" for the middle cross piece; and 20 1/4" from the top for the bottom cross piece. Please see Fig 6.0 for the dimension	Name: Wood 2x4x10; Description: 2x4x10; Metric Conversion: 52xmmx101mmx254mm; Unit of Measure: Piece	Measuring Tape Tri Square Pencil	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link

43	Connect the top Cross Piece with the Side frame (one side only). Ensure the Cross piece is horizontally positioned. Place 2 nails to hold the cross piece in place	Name: Wood 2x4x10 Description: 2x4x10 Metric Conversion: 52xmmx101mm x254mm Unit of Measure: Piece	Square Drive Nail Drill Bit Machine	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

44	Mark 4 holes (2 on each sides) on the Fan Deck Board for the connection of the middle cross piece.	Name: Wood 2x4x10 Description: 2x4x10 Metric Conversion: 52xmmx101mmx254mm Unit of Measure: Piece Name: Plywood 1/4"x 4.5 Description: 1/4" MDF 6" x 4.5" (Can also use Plywood) Metric Conversion: 6mm MDF 152mm x 114 (Can also use Plywood) Unit of Measure: Piece	Pencil Ruler	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link

45	Pre Drill the Marked holes from Step 44	Name	Description	Metric Conversion	Unit of Measure
		Plywood 1/4"x 4.5	1/4" MDF 6" x 4.5" (Can also use Plywood)	6mm MDF 152mm x 114 (Can also use Plywood)	Piece

Drill Bit 1/8"
Drill Bit Machine

https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

46	Connect and Drill the Fan deck Board (non-grounded side) into the Middle Cross Piece. Ensure Fan Deck board is attached under/ bottom part of the Middle Cross Board. Please see Fig 2.0 for the correct position of the Fan Deck Board	Name	Description	Metric Conversion	Unit of Measure
		Wood 2x4x10	2x4x10	52xmmx101mmx254mm	Piece
		Plywood 1/4"x 4.5	1/4" MDF 6" x 4.5" (Can also use Plywood)	6mm MDF 152mm x 114 (Can also use Plywood)	Piece

Square Drive Nail
Drill Bit Machine

https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link

47	Connect the middle Cross Piece with the Side frame (one side only). Ensure the Cross piece is vertically positioned. Place 2 nails to hold the cross piece in place. Please see Fig 2.0 for the correct position	Name: Wood 2x4x10 Description: 2x4x10 Metric Conversion: 52xmmx101mmx254mm Unit of Measure: Piece	Square Drive Nail Drill Bit Machine	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69
48	Connect the bottom Cross Piece with the Side frame (one side only). Ensure the Cross piece is vertically positioned. Place 2 nails to hold the cross piece in place. Connect the middle Cross Piece with the Side frame (one side only). Ensure the Cross piece is vertically positioned. Place 2 nails to hold the cross piece in place. Please see Fig 2.0 for the correct position	Name: Wood 2x4x10 Description: 2x4x10 Metric Conversion: 52xmmx101mmx254mm Unit of Measure: Piece	Square Drive Nail Drill Bit Machine	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link

49	Connect the Side Frame(2nd side frame) with the Cross Pieces attached to the 1st Side Frame	Name: Wood 2x4x10 — Description: 2x4x10 — Metric Conversion: 52xmmx101mmx254mm — Unit of Measure: Piece	Square Drive Nail Drill Bit Machine	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

50	Place the Side frame on top of the Base Board (non-grounded side)	Name: Wood 2x4x10 — Description: 2x4x10 — Metric Conversion: 52xmmx101mmx254mm — Unit of Measure: Piece Name: Plywood 3/4x15.5 — Description: 3/4" MDF 15.5" x 15.5" (Can also use Plywood) — Metric Conversion: 19mm MDF 394 mmx 394mm (Can also use Plywood) — Unit of Measure: Piece		https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link

51	Pre drill 2 holes on the area where the side frame and the Base board are connected	Name: Plywood 3/4x15.5 — Description: 3/4" MDF 15.5" x 15.5" (Can also use Plywood) — Metric Conversion: 19mm MDF 394 mmx 394mm (Can also use Plywood) — Unit of Measure: Piece	Drill Bit Machine	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

52	Connect and nail the base Board to the Side Frame. Please refer 2.0 for the correct orientation of the boards and side frame	Name: Wood 2x4x10 — Description: 2x4x10 — Metric Conversion: 52xmmx101mmx254mm — Unit of Measure: Piece Name: Plywood 3/4x15.5 — Description: 3/4" MDF 15.5" x 15.5" (Can also use Plywood) — Metric Conversion: 19mm MDF 394 mmx 394mm (Can also use Plywood) — Unit of Measure: Piece	Square Drive Nail Drill Bit Machine	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link

53	Place the angle piece from the step 9-12 into the Side frame and on top of the Base Board. Please refer fig2.0 and Fig 4.0	Name	Description	Metric Conversion	Unit of Measure
		Wood 2x4x10	2x4x10	52xmmx101mmx254mm	Piece
		Plywood 3/4x15.5	3/4" MDF 15.5" x 15.5" (Can also use Plywood)	19mm MDF 394 mmx 394mm (Can also use Plywood)	Piece
					Square Drive Nail Drill Bit Machine
					https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

54	Pre drill the base frame in Step 53	Name	Description	Metric Conversion	Unit of Measure
		Plywood 3/4x15.5	3/4" MDF 15.5" x 15.5" (Can also use Plywood)	19mm MDF 394 mmx 394mm (Can also use Plywood)	Piece
					Drill Bit Machine
					https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Step	Process	Material	Tools	Youtube Link
55	Connect the Angle Piece with the Side Frame and the Base Board. One nail connecting to the Side Frame and one nail into the base frame. Please refer Fig 2.0 and Fig 4.0.	(see material table below)	Square Drive Nail Drill Bit Machine	https://drive.google.com/drive/folders/18duHcktmzT1QRXVuiVttSuXc_h-BfB69

Name	Description	Metric Conversion	Unit of Measure
Wood 2x4x10	2x4x10	52xmmx101mmx254mm	Piece
Plywood 3/4x15.5	3/4" MDF 15.5" x 15.5" (Can also use Plywood)	19mm MDF 394 mmx 394mm (Can also use Plywood)	Piece

Step	Process	Material	Tools	Youtube Link