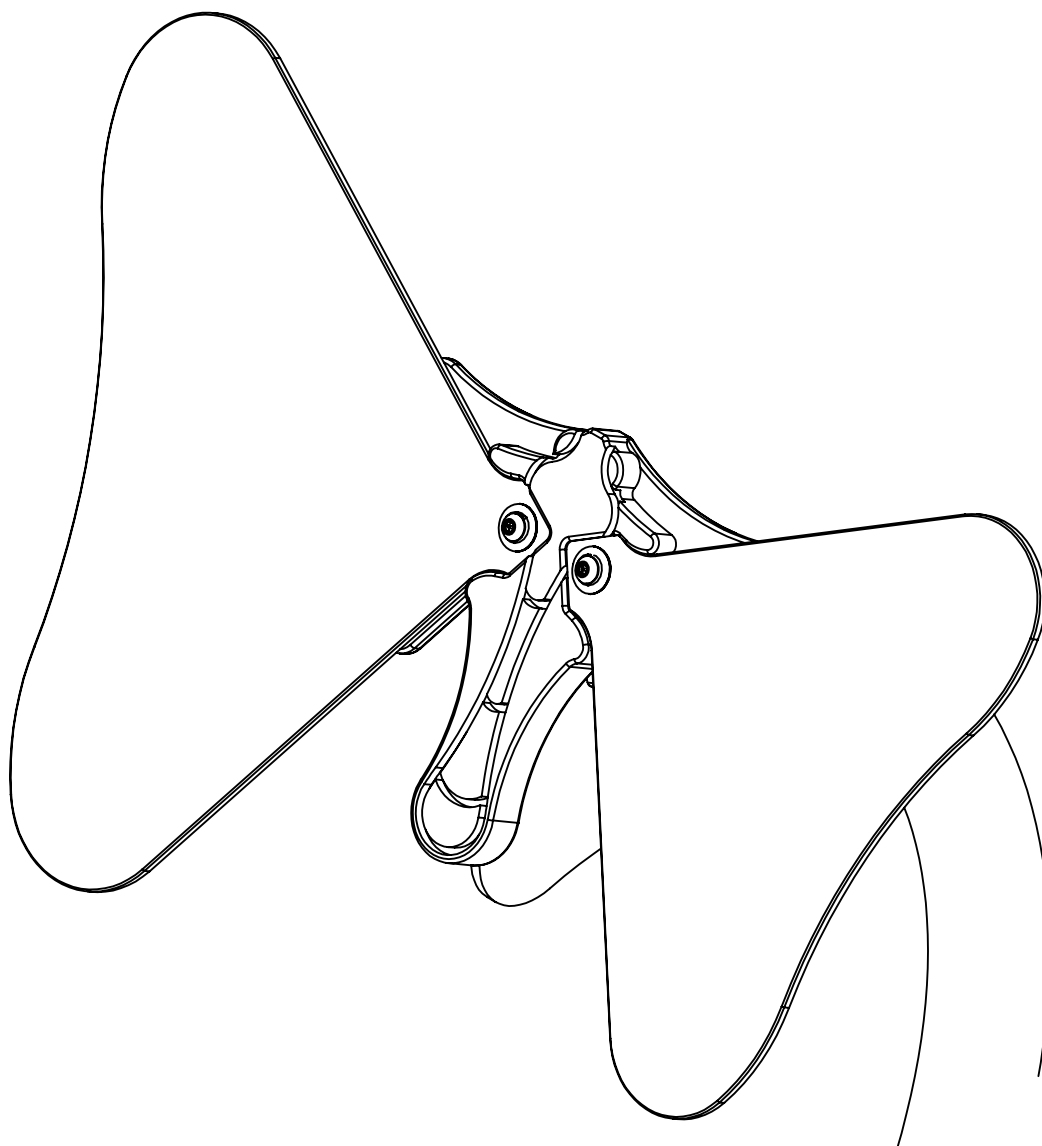
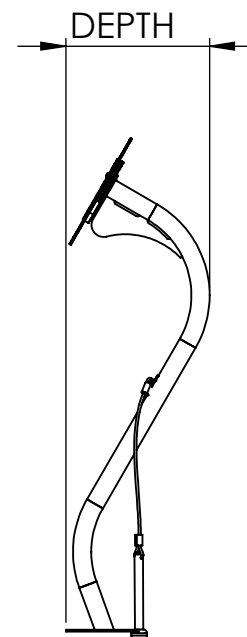
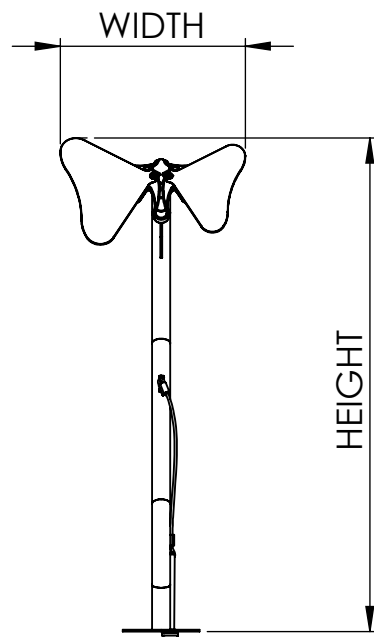


BUTTERFLY - INSTALLATION GUIDE

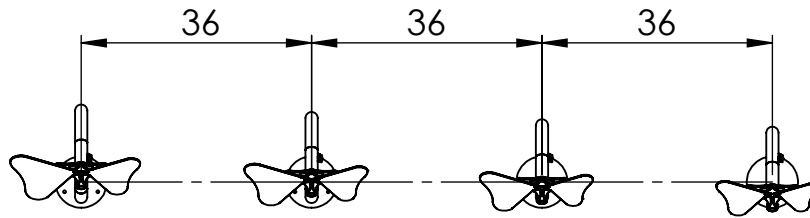


SPECS AND MATERIALS

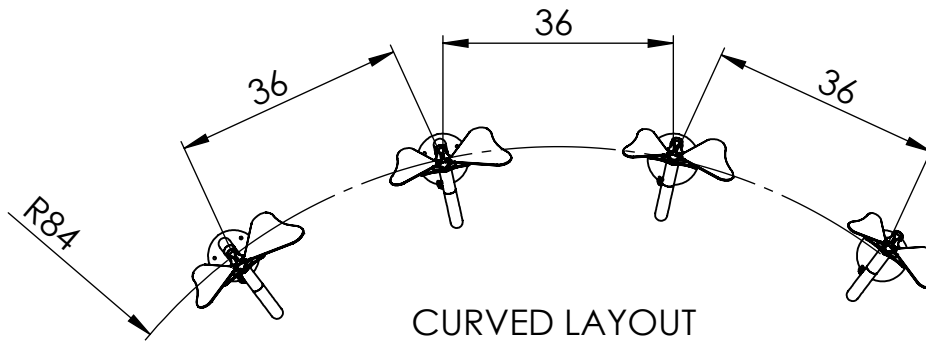
	INDIGO	ORANGE	TURQUOISE	YELLOW
IN GROUND MOUNT				
HEIGHT	53-3/4"	51-1/2"	49-1/4"	46-3/4"
WIDTH	20-3/8"	19-1/4"	17-5/8"	16"
DEPTH	16-1/8"	15"	13-7/8"	12-5/8"
WEIGHT	29 LBS	28 LBS	27 LBS	26 LBS
PACKAGED WEIGHT	38 LBS	37 LBS	36 LBS	35 LBS
SURFACE MOUNT				
HEIGHT	53-3/4"	51-1/2"	49-1/4"	46-3/4"
WIDTH	20-3/8"	19-1/4"	17-5/8"	16"
DEPTH	16-1/8"	15"	13-7/8"	12-5/8"
WEIGHT	18 LBS	17 LBS	16 LBS	15 LBS
PACKAGED WEIGHT	27 LBS	26 LBS	25 LBS	24 LBS
PORTABLE MOUNT				
HEIGHT	53-3/4"	51-1/2"	49-1/4"	46-3/4"
WIDTH	20-3/8"	19-1/4"	17-5/8"	16"
DEPTH	16-1/8"	15"	13-7/8"	12-5/8"
WEIGHT	27 LBS	26 LBS	25 LBS	24 LBS
PACKAGED WEIGHT	36 LBS	35 LBS	34 LBS	33 LBS
MATERIALS				
THORAX	HDPE	HDPE	HDPE	HDPE
POST	POWDER COATED STEEL	POWDER COATED STEEL	POWDER COATED STEEL	POWDER COATED STEEL
HARDWARE	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL
WINGS	ANODIZED ALUMINUM	ANODIZED ALUMINUM	ANODIZED ALUMINUM	ANODIZED ALUMINUM



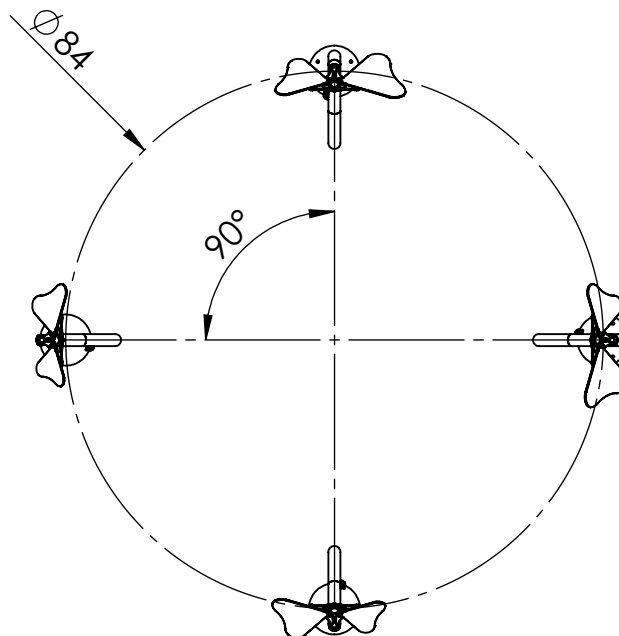
RECOMMENDED LAYOUTS



STRAIGHT LAYOUT



CURVED LAYOUT



CIRCLE LAYOUT

PRE-INSTALL

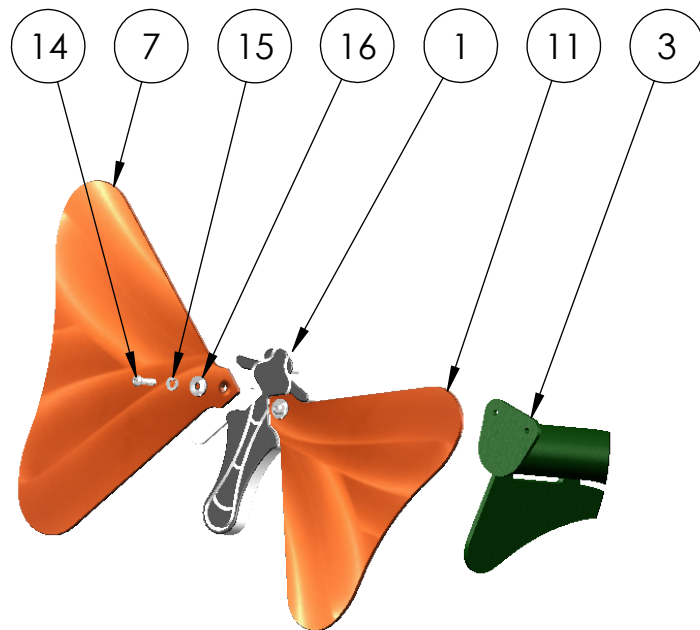
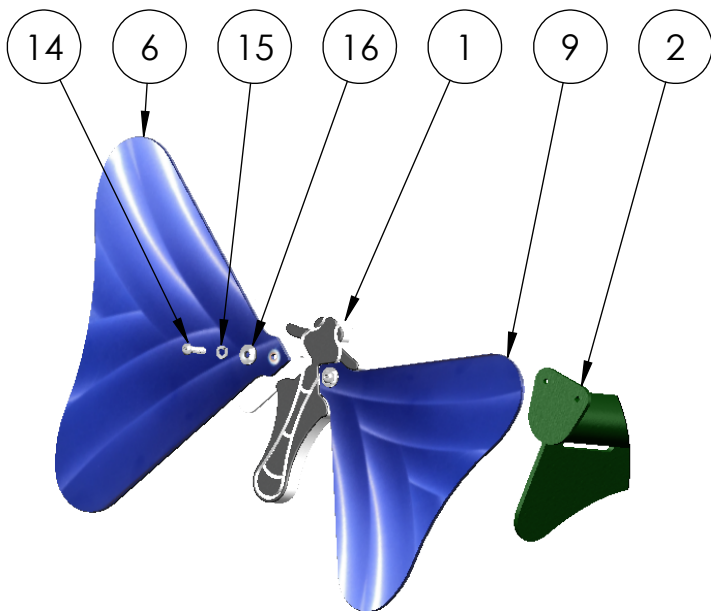
ITEM NO.	PART NUMBER	DESCRIPTION	INDIGO	ORANGE	TURQUOISE	YELLOW
1	BFLY-THORAX	BUTTERFLY - HDPE THORAX (.75" BLACK/WHITE/BLACK)	1	1	1	1
2	BFLY-POST-4-FP	BUTTERFLY - ZINC TUBE POST 4 (POWDER-COATED)	1	-	-	-
3	BFLY-POST-3-FP	BUTTERFLY - ZINC TUBE POST 3 (POWDER-COATED)	-	1	-	-
4	BFLY-POST-2-FP	BUTTERFLY - ZINC TUBE POST 2 (POWDER-COATED)	-	-	1	-
5	BFLY-POST-1-FP	BUTTERFLY - ZINC TUBE POST 1 (POWDER-COATED)	-	-	-	1
6	BFLY-WING-1	BUTTERFLY - ALUMINUM WING 1 (INDIGO) C	1	-	-	-
7	BFLY-WING-2	BUTTERFLY - ALUMINUM WING 2 (ORANGE) D	-	1	-	-
8	BFLY-WING-3	BUTTERFLY - ALUMINUM WING 3 (TURQUOISE) F	-	-	1	-
9	BFLY-WING-4	BUTTERFLY - ALUMINUM WING 4 (INDIGO) G	1	-	-	-
10	BFLY-WING-5	BUTTERFLY - ALUMINUM WING 5 (YELLOW) A	-	-	-	1
11	BFLY-WING-6	BUTTERFLY - ALUMINUM WING 6 (ORANGE) A	-	1	-	-
12	BFLY-WING-7	BUTTERFLY - ALUMINUM WING 7 (TURQUOISE) C	-	-	1	-
13	BFLY-WING-8	BUTTERFLY - ALUMINUM WING 8 (YELLOW) E	-	-	-	1
14	25C100MBTS	1/4"-20 BUTTON HEAD SCREW, 1"LG. SS,T27 TAMP	2	2	2	2
15	92147A029	0.487"OD 0.26"ID 316 SS SPLIT LOCK WASHER FOR 1/4" BOLTS	2	2	2	2
16	94709A416	18-8 STAINLESS STEEL WITH NEOPRENE RUBBER SEALING WASHER	2	2	2	2
17	91870A238	#10-24 FLAT HEAD MACHINE SCREW, .375"LG. SS, T25 TAMP	2	2	2	2
18	FHP-RG-SS	SS ROPE GUIDE	1	1	1	1
19	MA-80BLK-33	MALLET-80A-BLACK-19" CABLE-30" CONSUMED	1	1	1	1

1) Apply thread locking fluid. Apply two drops of Loctite to the ends of the threads of (1) 1/4"-20 Button Head Screw.

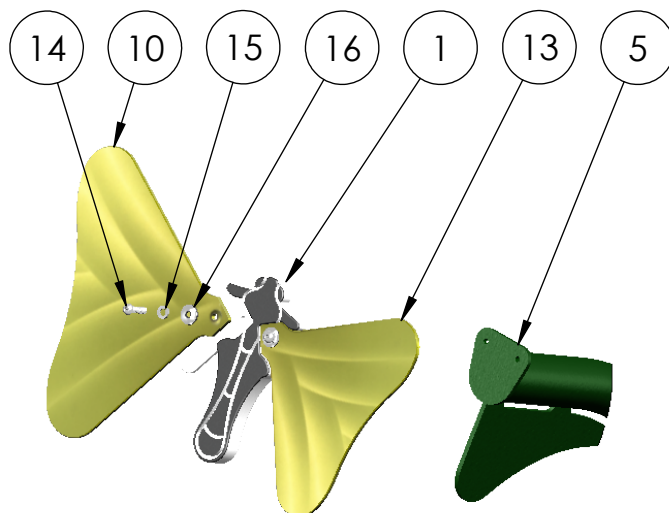
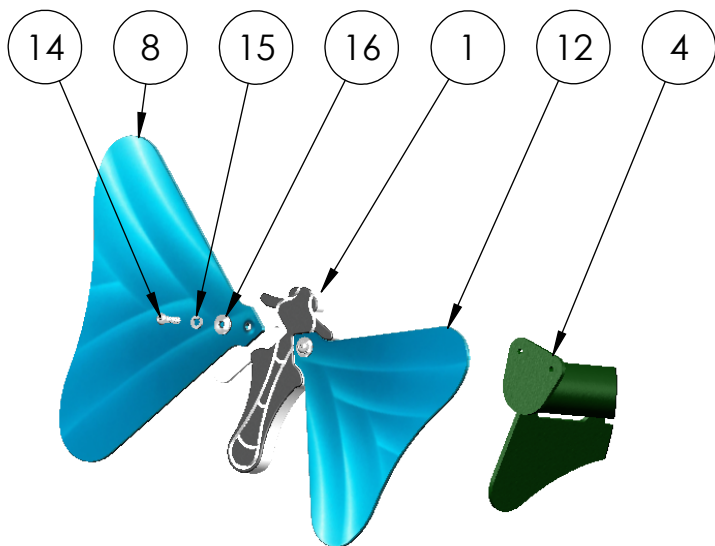
2) Assemble large wing and thorax. Begin to assemble the instrument by stacking the bolt, lock washer, washer, large wing, and thorax. Place the thorax onto the frame so that the bolt fits through the hole in the frame.

3) Fasten wings. Position the locking hex nut behind the bolt on the back of the frame. With two people, use the tamper resistant torx bit and an adjustable wrench to drive the 1/4"-20 Button Head Screw through the frame and into the locking hex nut. Repeat the steps above for the small wing. Pre-installation complete.

PRE-INSTALL (CONT.)



NOTE: LARGE WING ALWAYS GOES ON LEFT SIDE



IN GROUND MOUNT

ITEM NO.	DESCRIPTION	BFLY-I-IG	BFLY-O-IG	BFLY-T-IG	BFLY-Y-IG
20	Pre-Assembly - Indigo Butterfly Instrument	1	-	-	-
21	Pre-Assembly - Orange Butterfly Instrument	-	1	-	-
22	Pre-Assembly - Turquoise Butterfly Instrument	-	-	1	-
23	Pre-Assembly - Yellow Butterfly Instrument	-	-	-	1
24	3/8"-16 Hex Head Screw, 1"lg. SS	3	3	3	3
25	In Ground Steel Post Extension (Powder-coated)	1	1	1	1
26	3/8"-16 Hex Nut, SS	3	3	3	3

1) Assemble instrument. Follow instructions on sheet 2 for pre-installation instructions.

2) Attach post extension. With the remaining Loctite, apply a couple drops to the end of the threads on the 3/8"-16 Hex Head Screws. Attach the instrument to the In Ground Post Extension by aligning the holes on each component and fastening them together with the 3/8" Hex Head Screws and the 3/8"-16 Hex Nuts.

3) Excavate hole. After choosing your layout, excavate (1) 10" DIA hole/instrument 34" deep at the pre-determined location. Note that a deeper excavated hole or shortening the In Ground Post Extension will be required if the desired age groups are between 2-12. Be sure to account for surfacing thickness if it is to be used.

4) Place Instrument. With two people, place the instrument into the hole, verifying the placement and finish height. Adjust the hole depth if necessary to achieve the proper finish height. Check for sufficient clearance around the Instrument, a 36" perimeter around the Instrument is recommended for wheelchair accessibility.

5) Pour concrete. Pour concrete around the In Ground Post Extension within the hole and check that the instrument is level. Leave concrete to set according to the concrete manufacturer's recommendations. If necessary, brace the instrument to hold it level during the curing process. Approximately (3) 80lb. bags of concrete will be needed for each instrument.

Finished Height Guideline

INDIGO (Ages 2-5, 43.75") (Ages 5-12, 47.75") (Ages 13+, 51.75")

ORANGE (Ages 2-5, 41.5") (Ages 5-12, 45.5") (Ages 13+, 49.5")

TURQUOISE (Ages 2-5, 39.25") (Ages 5-12, 43.25") (Adult, 47.25")

YELLOW (Ages 2-5, 36.75") (Ages 5-12, 40.75") (Ages 13+, 44.75")

