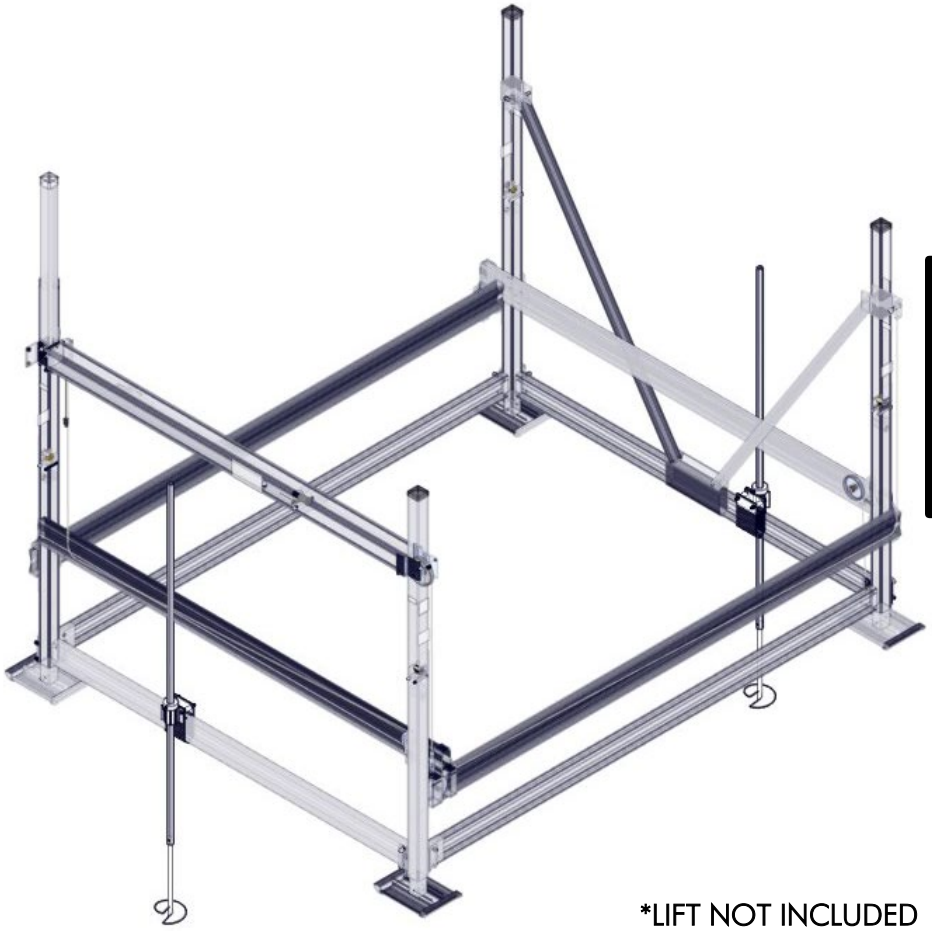
FLOE ANCHORING SYSTEM
V2000-VSD10000

ASSEMBLY INSTRUCTIONS

KIT P/N 512-00050-00, 512-00051-00, 512-00056-00



*LIFT NOT INCLUDED

IMPORTANT

DO NOT USE AN IMPACT OR CORDLESS DRILL TO INSTALL LIFT ANCHORS.

TOOLS REQUIRED
-(2) 9/16" SOCKETS/WRENCHES
-1 1/8" SOCKET (6 POINT ONLY)
-1/2" DRIVE RATCHET
-TORQUE WRENCH
-TAPE MEASURE

STORAGE DISCLAIMER

WHEN STORING THE ANCHORING SYSTEM, THE MAIN TUBE WITH AUGER MUST BE CLEANED THOUROUGHLY OF ANY DEBRIS (MUD, SAND, ETC.) AND PLACED UPSIDE DOWN (AUGER POINTING UPWARDS).

INSTALLATION RECOMMENDATION

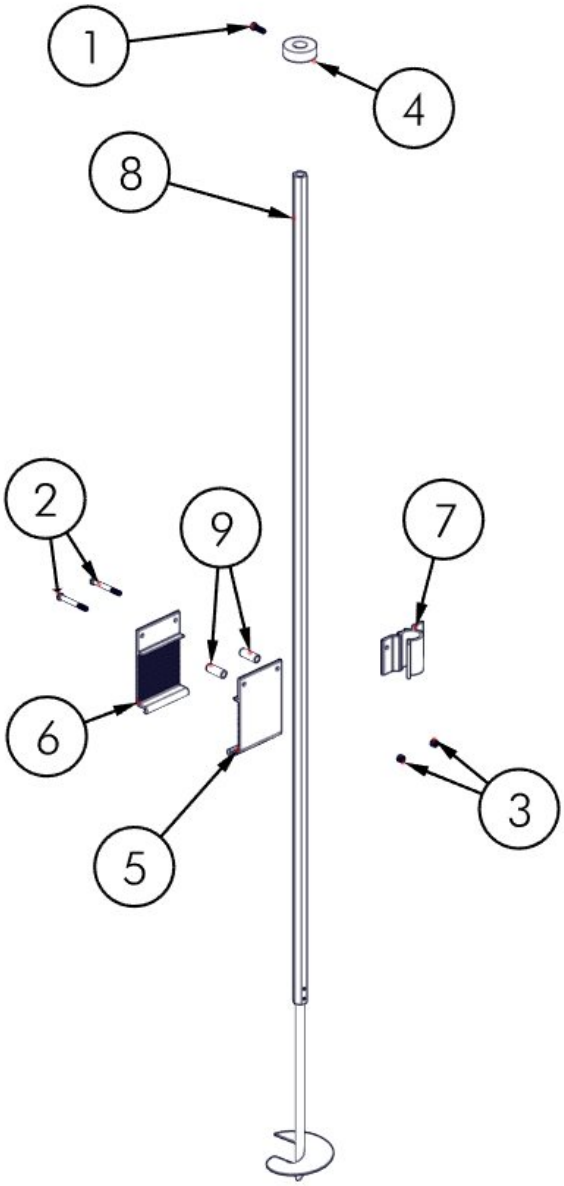
TWO SETS OF ANCHORING SYSTEMS (FOUR TOTAL ANCHORS) MUST BE USED WHEN INSTALLING A MAXIS CANOPY AND ARE RECOMMENDED ON FREE STANDING CANOPIES IN HIGHER WIND CONDITION AREAS (ABOVE 30 MPH).

Floe International Inc.
48473 State Hwy. 65
McGregor, MN 55760
www.floeintl.com

INSTRUCTION P/N: 612-00050-00
RELEASED 11/9/21

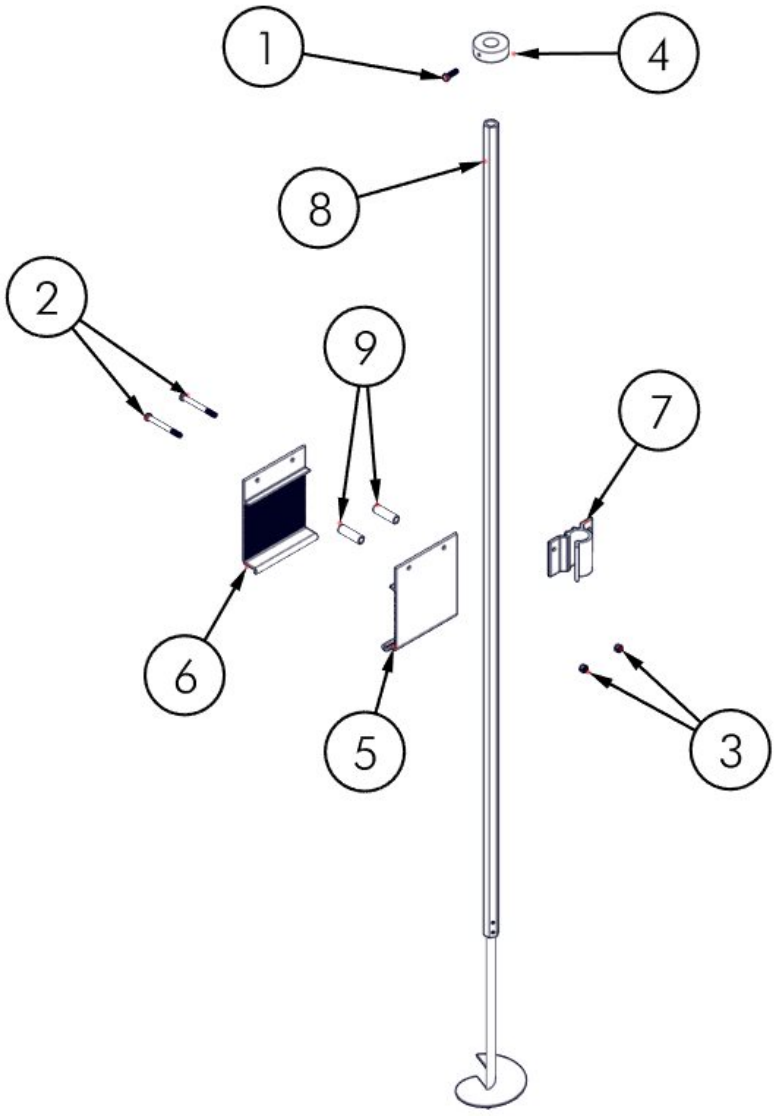
BILL OF MATERIALS/EXPLODED VIEW

P/N 512-00050-00	ANCHORING SYSTEM, V2000-VSD5000		
NUMBER	PART NUMBER	QTY.	DESCRIPTION
1	001-70107-00	2	HHCS, 3/8-16 x 1 ¼" 18-8 ss
2	001-70116-00	4	HHCS, 3/8-16 x 3 1/4" 18-8 ss
3	001-76071-00	4	NUT, NYLOCK 3/8-16 ALUM.
4	002-00198-00	2	SET COLLAR, ANCHORING SYSTEM
5	002-00241-00	2	CLAMP, ANCHORING SYSTEM (FEMALE) SMALL
6	002-00242-00	2	CLAMP, ANCHORING SYSTEM (MALE) SMALL
7	002-00322-00	2	POCKET, ANCHOR GUIDE – 3.5" (FAB)
8	111-00487-00	2	ASS'Y, BOAT LIFT ANCHOR 7' HEX
9	911-10803-00	4	TUBE, .72 OD x .065 – 1.875"



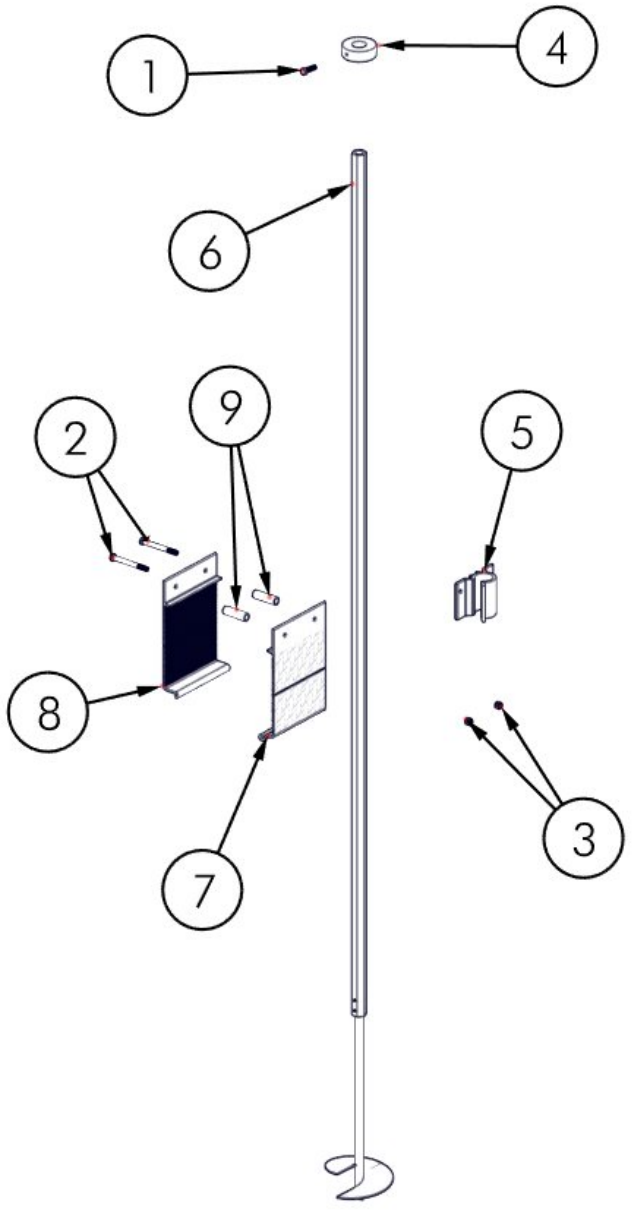
BILL OF MATERIALS/EXPLODED VIEW

P/N 512-00051-00	ANCHORING SYSTEM, VSD6500-8000		
NUMBER	PART NUMBER	QTY.	DESCRIPTION
1	001-70107-00	2	HHCS, 3/8-16 x 1 ¼" 18-8 ss
2	001-70118-00	4	HHCS, 3/8-16 x 3 ¾" 18-8 ss
3	001-76071-00	4	NUT, NYLOCK 3/8-16 ALUM.
4	002-00198-00	2	SET COLLAR, ANCHORING SYSTEM
5	002-00243-00	2	CLAMP, ANCHORING SYSTEM (FEMALE) LARGE
6	002-00244-00	2	CLAMP, ANCHORING SYSTEM (MALE) LARGE
7	002-00322-00	2	POCKET, ANCHOR GUIDE – 3.5" (FAB)
8	111-00487-00	2	ASS'Y, BOAT LIFT ANCHOR 7' HEX
9	911-10810-00	4	TUBE, .72 OD x .065 – 2.406"

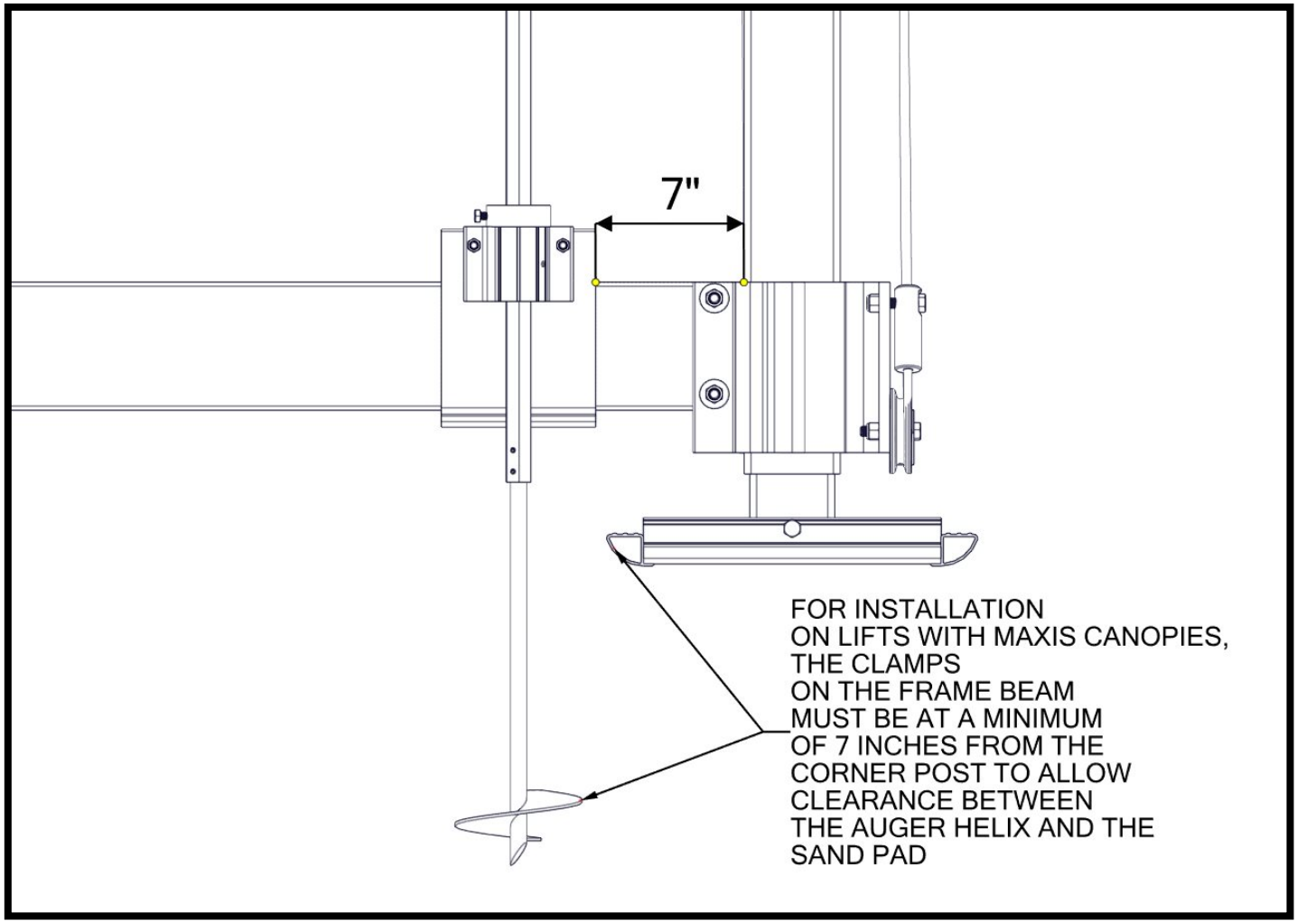


BILL OF MATERIALS/EXPLODED VIEW

P/N 512-00056-00	ANCHORING SYSTEM, VSD10K		
NUMBER	PART NUMBER	QTY.	DESCRIPTION
1	001-70107-00	2	HHCS, 3/8-16 x 1 ¼" 18-8 ss
2	001-70118-00	4	HHCS, 3/8-16 x 3 ¾" 18-8 ss
3	001-76071-00	4	NUT, NYLOCK 3/8-16 ALUM.
4	002-00198-00	2	SET COLLAR, ANCHORING SYSTEM
5	002-00322-00	2	POCKET, ANCHOR GUIDE – 3.5" (FAB)
6	111-00487-00	2	ASS'Y, BOAT LIFT ANCHOR 7' HEX
7	111-00524-00	2	WELD'T, CLAMP 10K ANCHORING (F)
8	111-00525-00	2	WELD'T, CLAMP 10K ANCHORING (M)
9	911-10810-00	4	TUBE, .72 OD x .065 – 2.406"



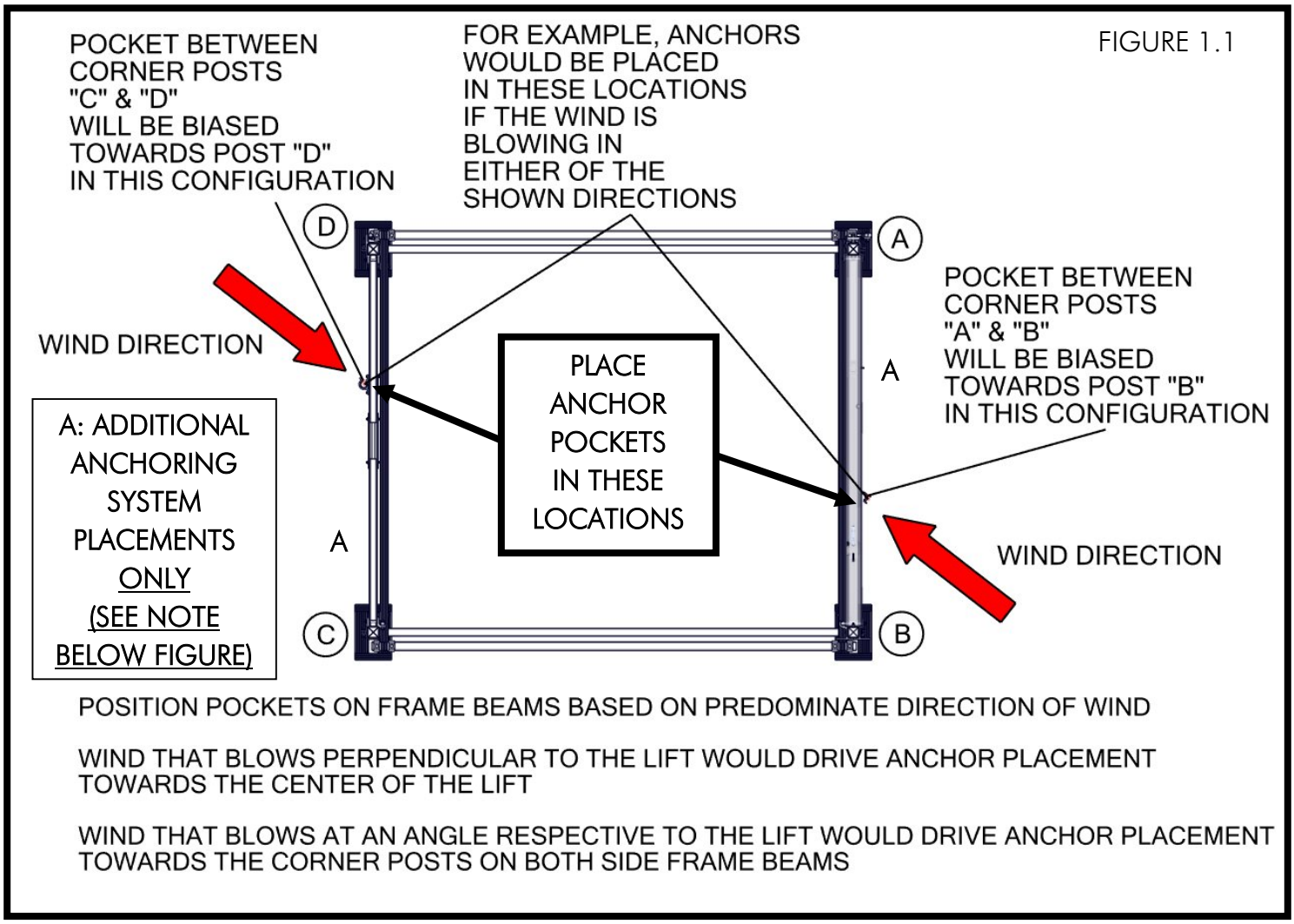
PLACEMENT (LIFTS WITH MAXIS CANOPIES)



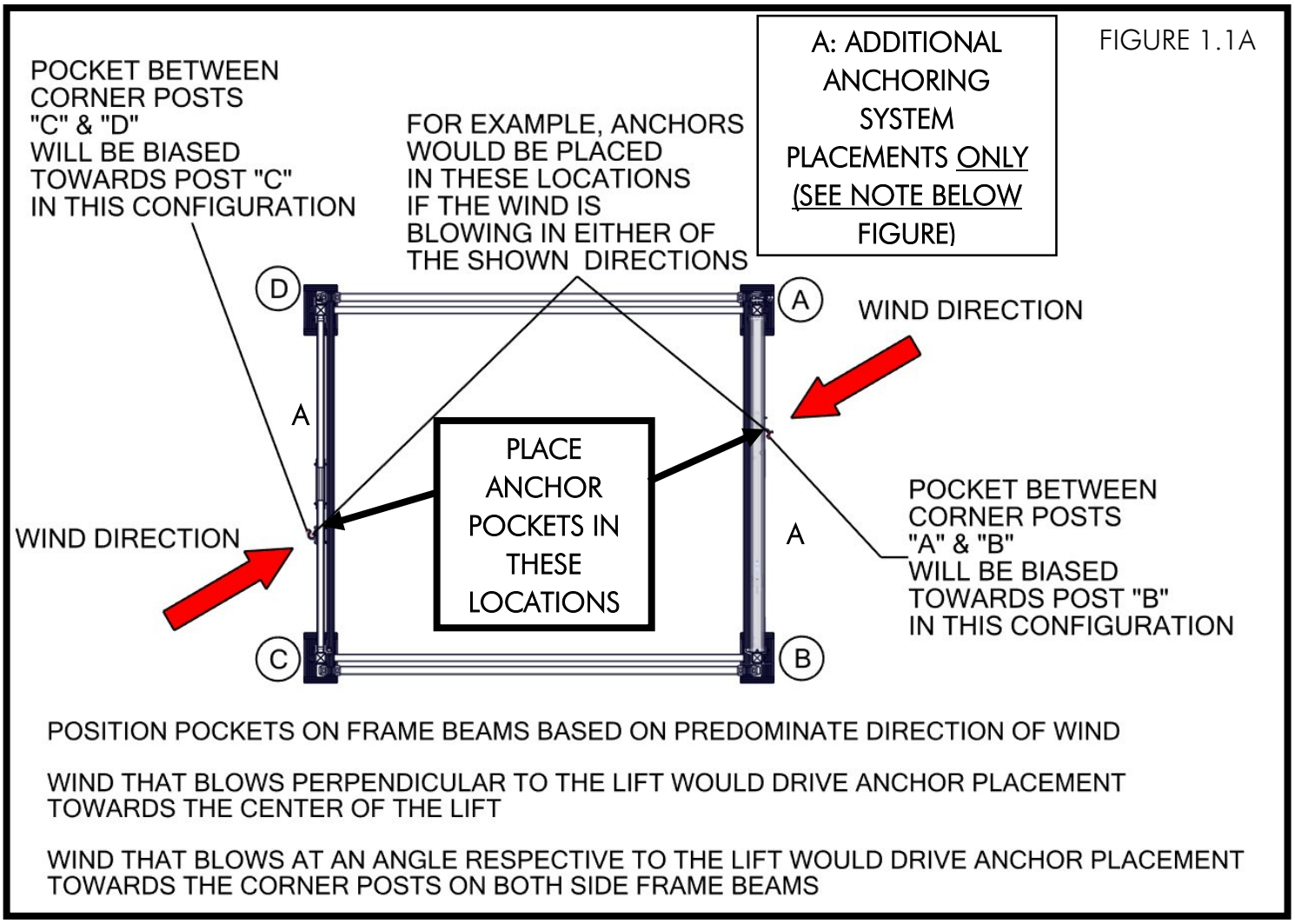
STEP 1

BEFORE INSTALLATION, SEE FIGURES 1.1 & 1.1A. PER THIS EXAMPLE, POCKETS WOULD BE PLACED IN THE SPECIFIED LOCATIONS. AN ADDITIONAL ANCHORING SYSTEM, IF REQUIRED, WOULD BE PLACED IN POSITIONS DENOTED BY "A".

INSTALLATION RECOMMENDATION: TWO SETS OF ANCHORING SYSTEMS (FOUR TOTAL ANCHORS) MUST BE USED WHEN INSTALLING A MAXIS CANOPY AND ARE RECOMMENDED ON FREE STANDING CANOPIES IN HIGHER WIND CONDITION AREAS (ABOVE 30 MPH).



NOTE: LIFTS IN LOCATIONS WHERE AVERAGE WIND CONDITIONS EXCEED 30 MPH WILL REQUIRE AN ADDITIONAL ANCHORING SYSTEM KIT. THIS ADDITIONAL KIT WOULD BE MOUNTED IN THE DENOTED (A) POSITIONS IN FIGURE 1.1 AND ADJUSTED SIMILARLY TO THE OTHER ANCHORS.



NOTE: LIFTS IN LOCATIONS WHERE AVERAGE WIND CONDITIONS EXCEED 30 MPH WILL REQUIRE AN ADDITIONAL ANCHORING SYSTEM KIT. THIS ADDITIONAL KIT WOULD BE MOUNTED IN THE DENOTED (A) POSITIONS IN FIGURE 1.1A AND ADJUSTED SIMILARLY TO THE OTHER ANCHORS.

INSTALLATION RECOMMENDATION

TWO SETS OF ANCHORING SYSTEMS (FOUR TOTAL ANCHORS) MUST BE USED WHEN INSTALLING A MAXIS CANOPY AND ARE RECOMMENDED ON FREE STANDING CANOPIES IN HIGHER WIND CONDITION AREAS (ABOVE 30 MPH).

PLACE CLAMPS ONTO SIDE FRAME BEAMS BETWEEN CORNER POSTS “A” & “B” AND CORNER POSTS “C” & “D” (SMALL LIFTS: FIGURE 1.2, VSD6-8K: FIGURE 1.2A, VSD10K: FIGURE 1.2B). SLIDE CLAMPS TOGETHER (FIGURE 1.3).

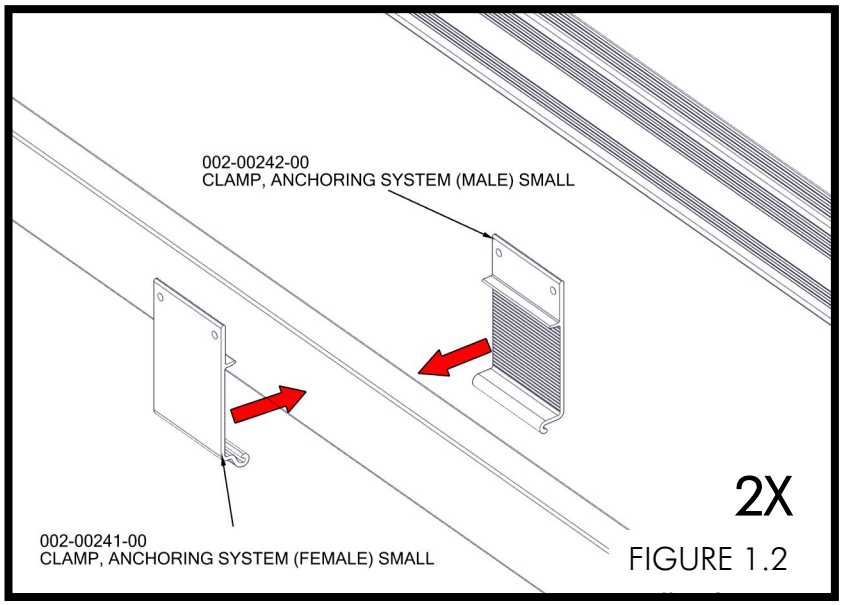


FIGURE 1.2

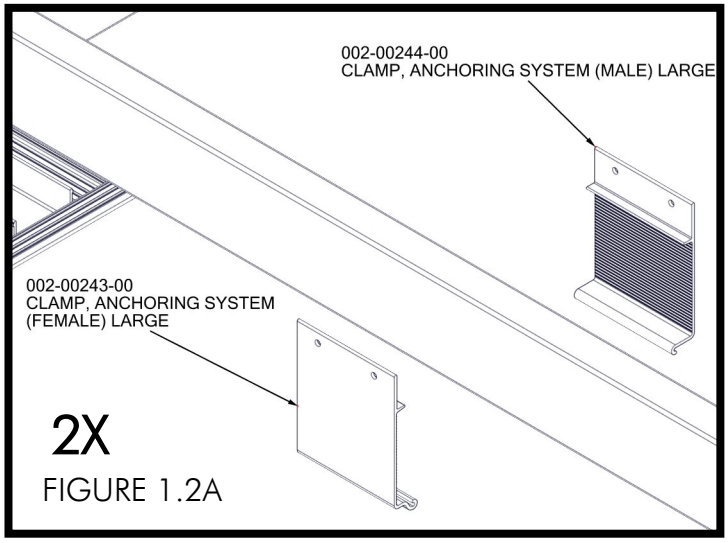


FIGURE 1.2A

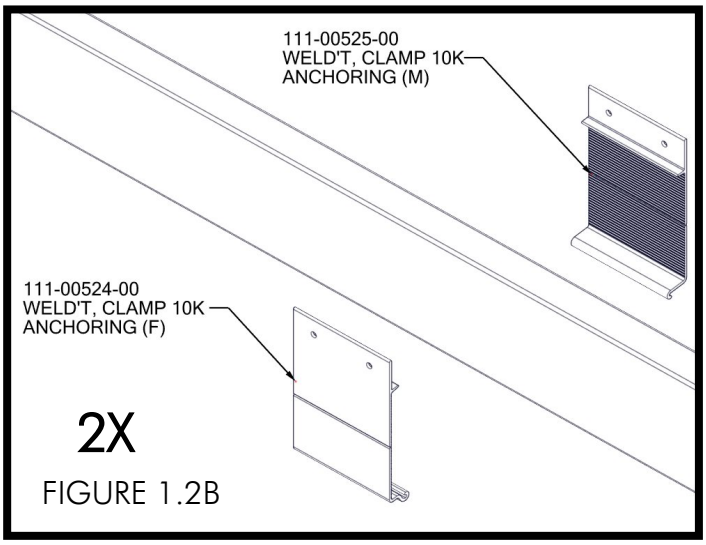


FIGURE 1.2B

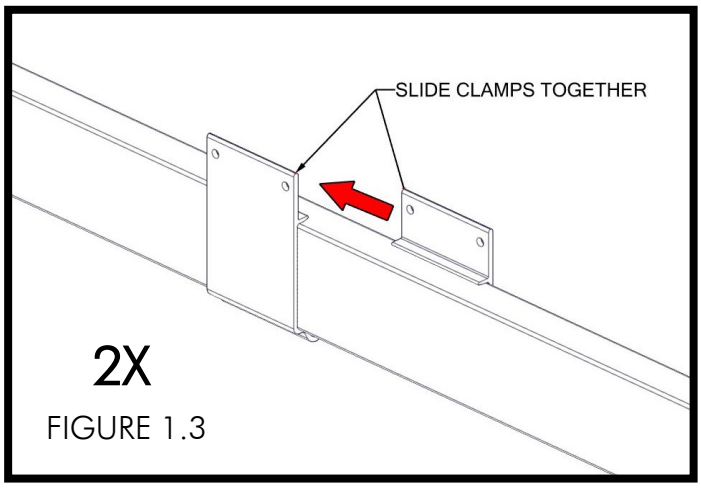


FIGURE 1.3

ATTACH ANCHOR POCKET TO CLAMPS USING (2) 3/8" x 3 ½" BOLTS AND (2) 1 7/8" LONG TUBES. BOLTS ARE PLACED INTO TUBES AND ALIGNED WITH HOLES (FIGURE 1.4). FOR LARGE LIFTS (VSD6-10K), USE (2) 3/8" X 3 3/4" BOLTS. PLACE 3/8" NUTS ON BOLTS (FIGURE 1.5).

FIGURE 1.4

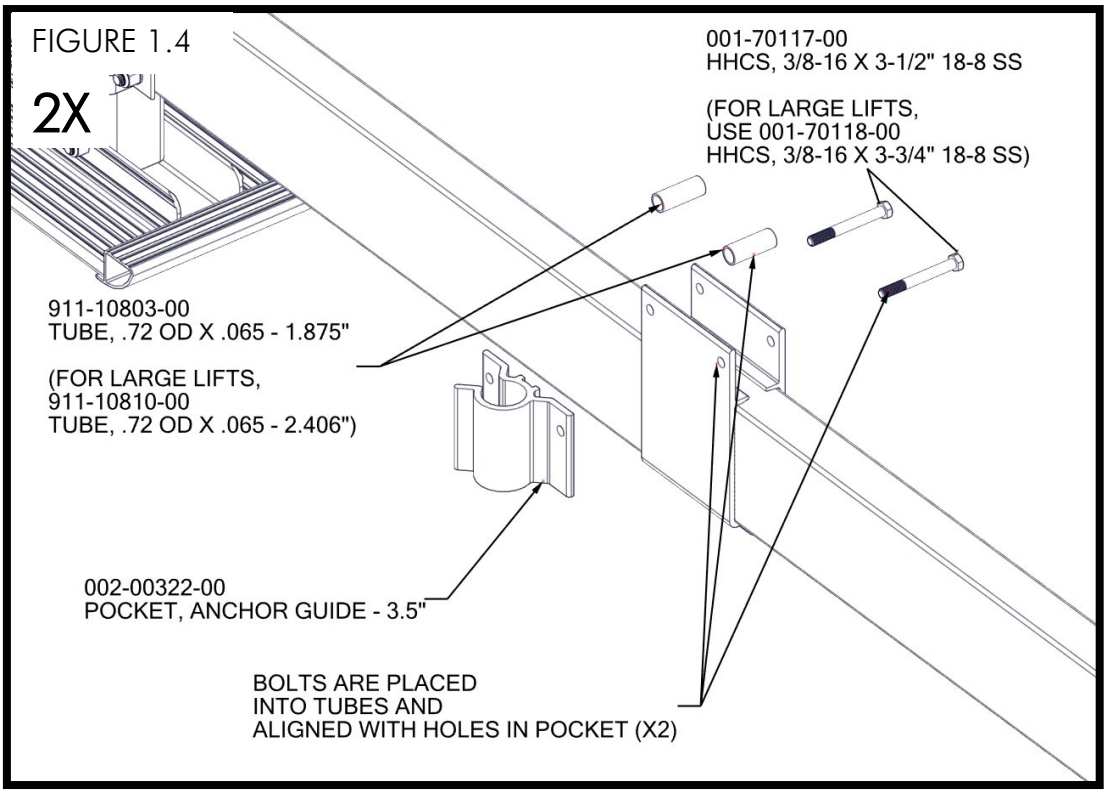
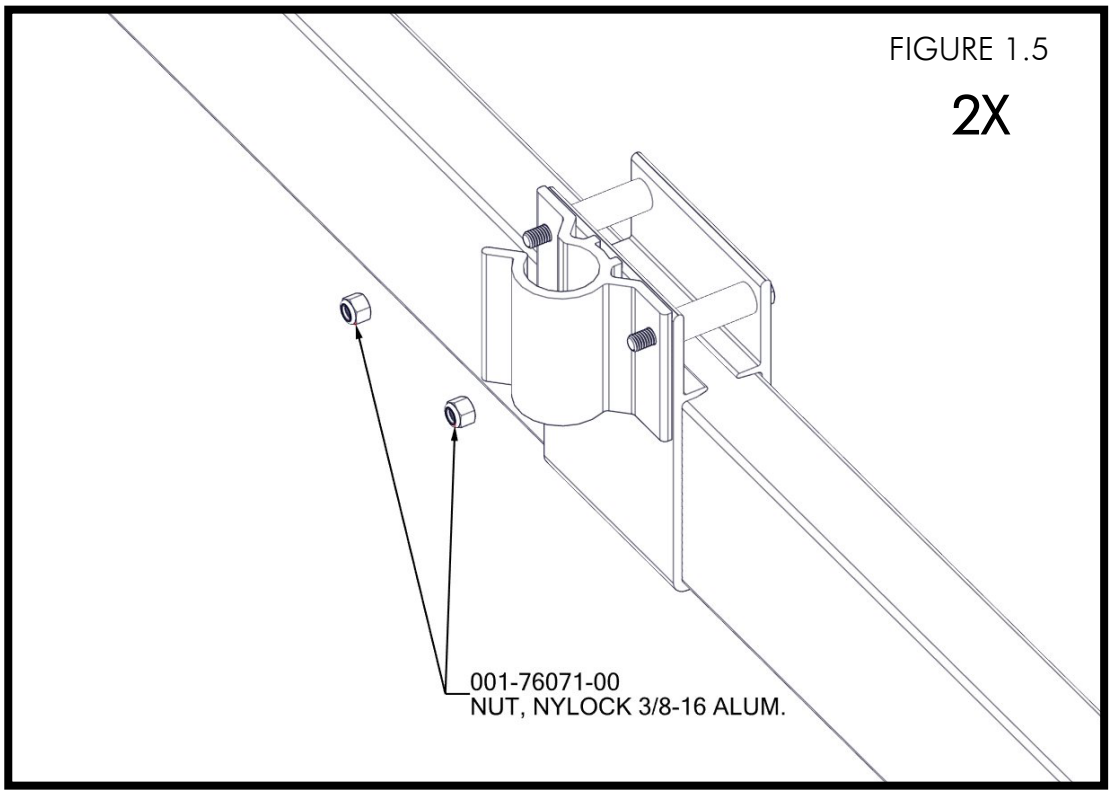


FIGURE 1.5



ONCE PLACEMENT IS FINALIZED, TORQUE TO 35 FT-LBS (FIGURE 1.6).

IMPORTANT NOTE: POCKET PLACEMENT MAY HAVE TO BE ADJUSTED BASED UPON POSSIBLE OBSTRUCTIONS ON LAKE BOTTOM OR ABILITY TO DRIVE AUGER TO FULL DEPTH.

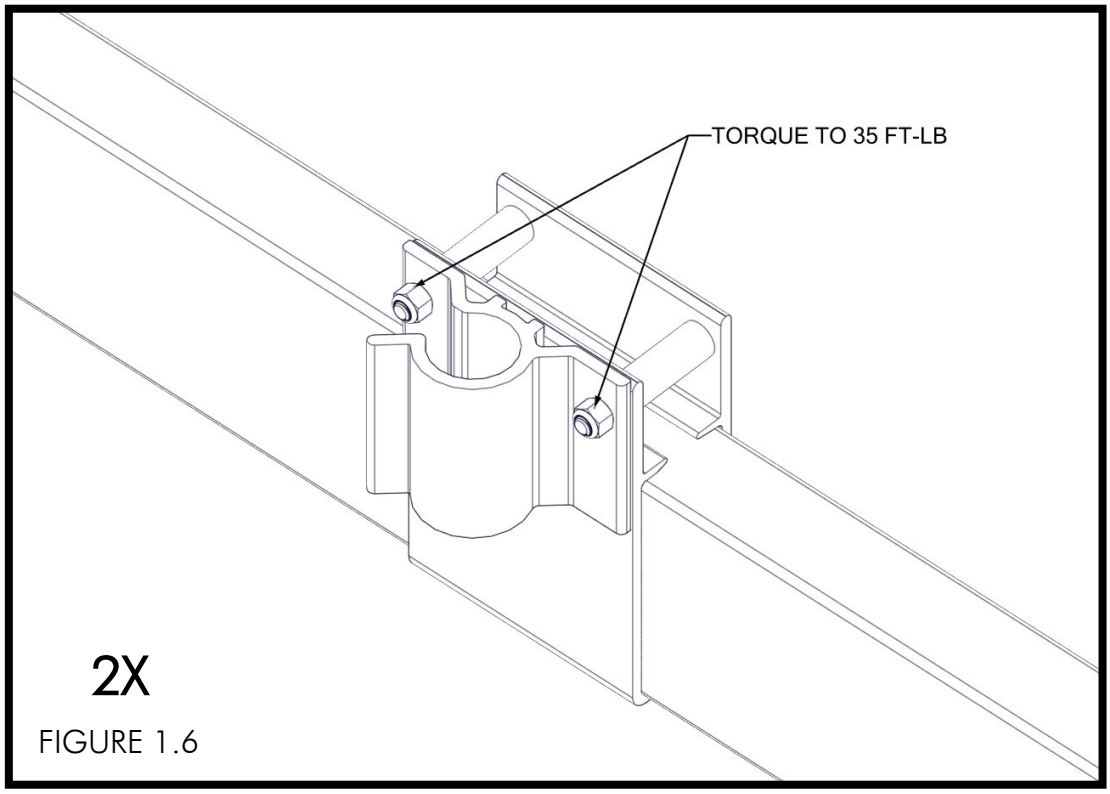


FIGURE 1.6

STEP 2

SLIDE COLLAR OVER ANCHOR TUBE (FIGURE 2.1). SET HEIGHT OF COLLAR BY TAKING THE MEASUREMENT FROM THE BOTTOM OF COLLAR TO THE TIP OF THE AUGER (FIGURE 2.2). SEE TABLES ON SHEETS 12-15 FOR COLLAR HEIGHT MEASUREMENTS AND FIGURE ON SHEET 13 FOR ADDITIONAL GUIDELINES.

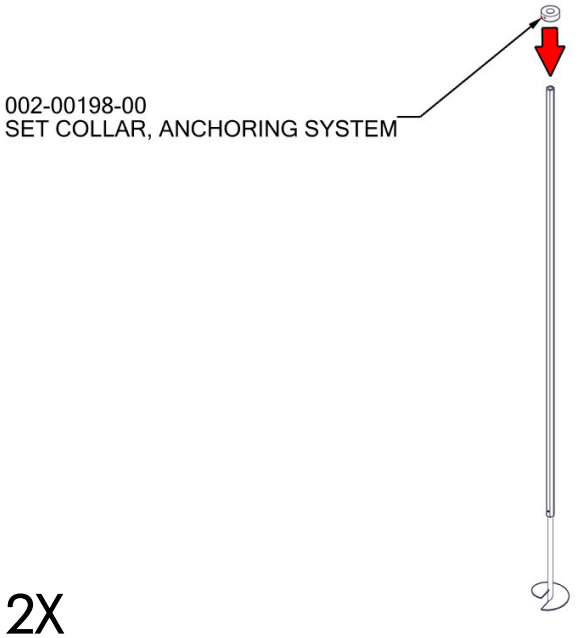
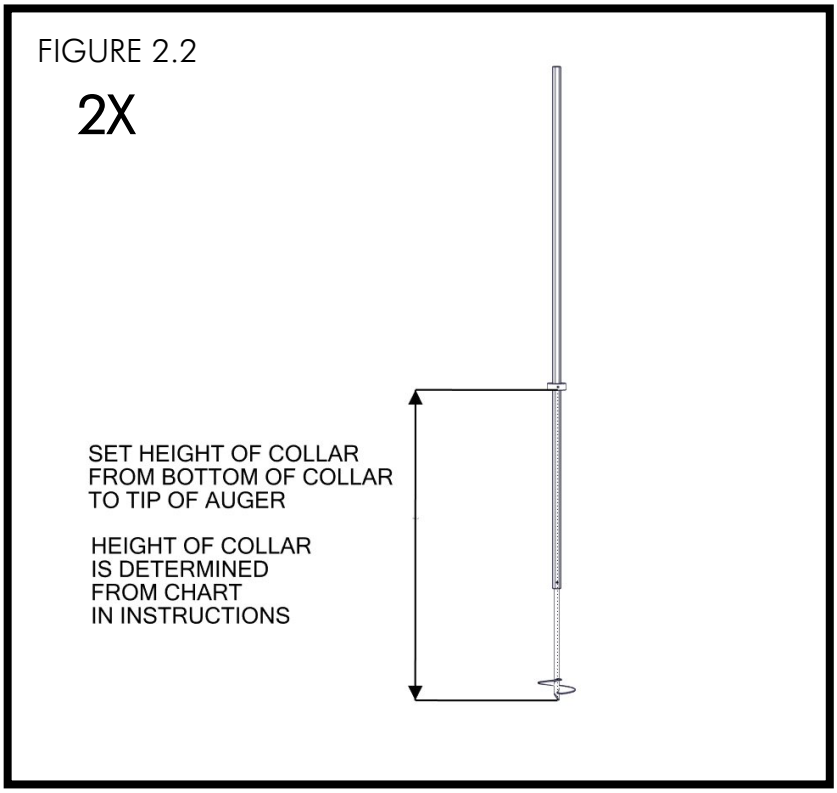


FIGURE 2.1

FIGURE 2.2



ONCE POSITION IS SET, SECURE COLLAR TO HEX TUBE USING (1) 3/8" X 1 ¼" BOLT (FIGURE 2.3) AND TORQUE TO 20 FT-LBS (FIGURE 2.4).

FIGURE 2.3

2X

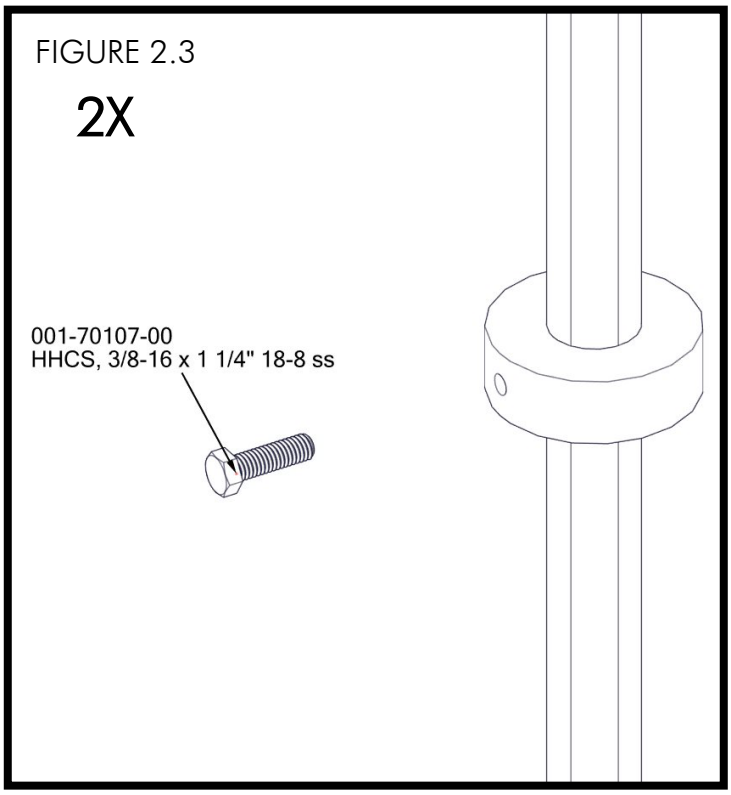
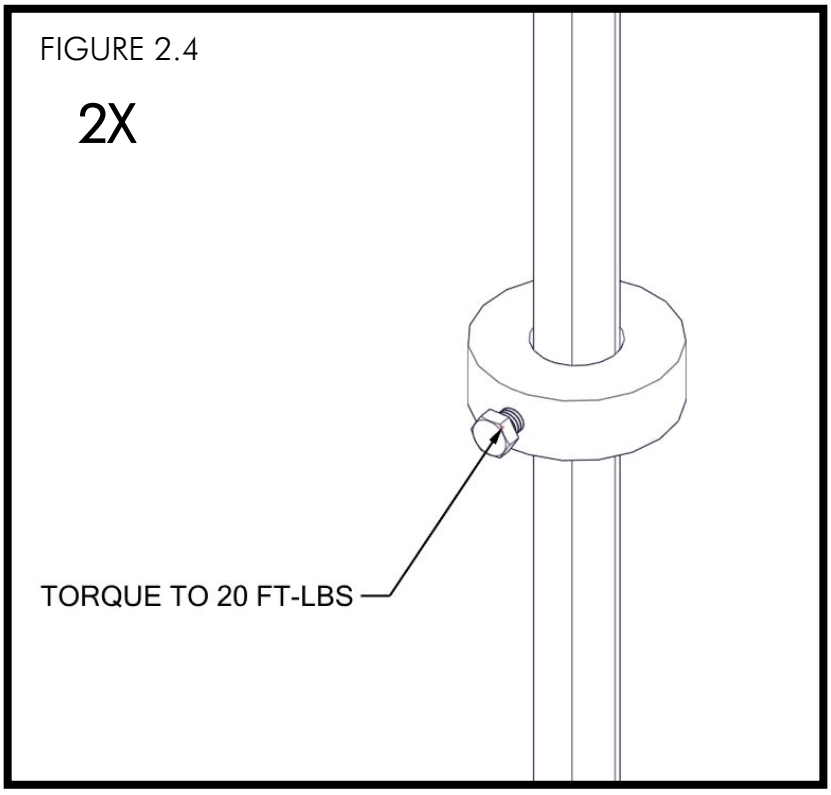
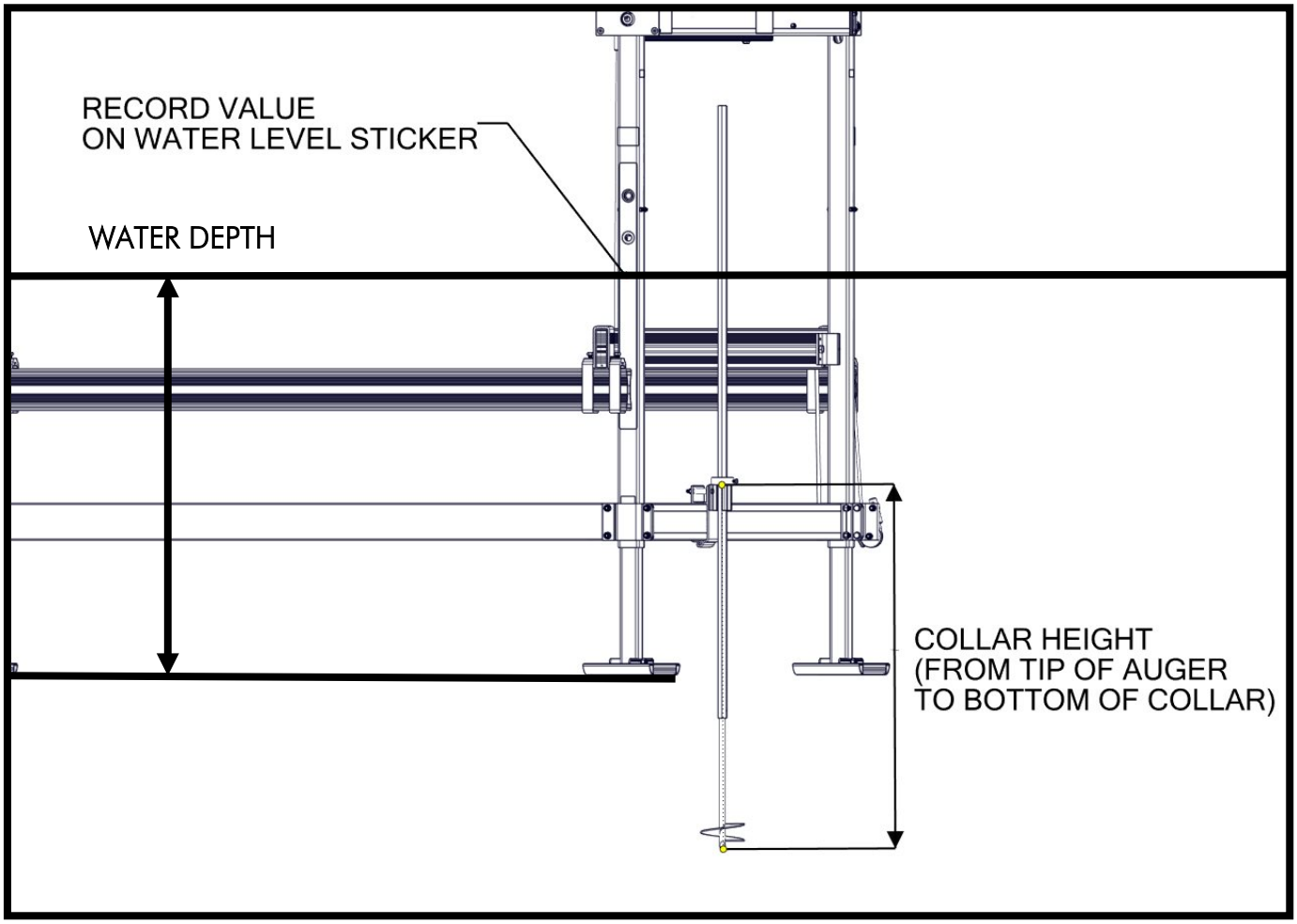


FIGURE 2.4

2X



FIRST, MEASURE WATER DEPTH. THEN, RECORD MEASUREMENT ON WATER DEPTH STICKER. USE THESE VALUES ON THE TABLES ON SHEETS 12 & 13 FOR SMALL LIFTS OR SHEETS 14 & 15 FOR LARGE LIFTS.



TO DETERMINE COLLAR HEIGHT, THE FOLLOWING TABLES ON SHEETS 10 & 11 ARE USED FOR SMALL LIFTS. REFER TO FIGURE 2.2 AND SHEET 11 ON HOW TO MEASURE FOR COLLAR HEIGHT.

NOTE: STICKER HEIGHT IS OPTIMUM WATER LEVEL ONLY.

	EASY LEVEL STICKER HEIGHT - SMALL LIFTS (INCHES)										
WATER DEPTH (INCHES)	26	27	28	29	30	31	32	33	34	35	36
31	34	35	36	37	38	39	40	41	42	43	44
32	35	36	37	38	39	40	41	42	43	44	45
33	36	37	38	39	40	41	42	43	44	45	46
34	37	38	39	40	41	42	43	44	45	46	47
35	38	39	40	41	42	43	44	45	46	47	48
36	39	40	41	42	43	44	45	46	47	48	49
37	40	41	42	43	44	45	46	47	48	49	50
38	41	42	43	44	45	46	47	48	49	50	51
39	42	43	44	45	46	47	48	49	50	51	52
40	43	44	45	46	47	48	49	50	51	52	53
41	44	45	46	47	48	49	50	51	52	53	54
42	45	46	47	48	49	50	51	52	53	54	55
43	46	47	48	49	50	51	52	53	54	55	56
44	47	48	49	50	51	52	53	54	55	56	57
45	48	49	50	51	52	53	54	55	56	57	58
46	49	50	51	52	53	54	55	56	57	58	59

FOR EXAMPLE, A WATER DEPTH OF 40 INCHES AND RECORDED HEIGHT ON THE WATER LEVEL STICKER OF 33 INCHES WOULD RESULT IN A COLLAR HEIGHT OF 50 INCHES.

	EASY LEVEL STICKER HEIGHT - SMALL LIFTS (INCHES)										
	26	27	28	29	30	31	32	33	34	35	36
47	50	51	52	53	54	55	56	57	58	59	60
48	51	52	53	54	55	56	57	58	59	60	61
49	52	53	54	55	56	57	58	59	60	61	62
50	53	54	55	56	57	58	59	60	61	62	63
51	54	55	56	57	58	59	60	61	62	63	64
52	55	56	57	58	59	60	61	62	63	64	65
53	56	57	58	59	60	61	62	63	64	65	66
54	57	58	59	60	61	62	63	64	65	66	67
55	58	59	60	61	62	63	64	65	66	67	68
56	59	60	61	62	63	64	65	66	67	68	69
57	60	61	62	63	64	65	66	67	68	69	70
58	61	62	63	64	65	66	67	68	69	70	71
59	62	63	64	65	66	67	68	69	70	71	72
60	63	64	65	66	67	68	69	70	71	72	73
61	64	65	66	67	68	69	70	71	72	73	74

FOR EXAMPLE, A WATER DEPTH OF 60 INCHES AND RECORDED HEIGHT ON THE WATER LEVEL STICKER OF 35 INCHES WOULD RESULT IN A COLLAR HEIGHT OF 72 INCHES.

TO DETERMINE COLLAR HEIGHT, THE FOLLOWING TABLES ON SHEETS 13 & 14 ARE USED FOR LARGE LIFTS. REFER TO FIGURE 2.2 AND SHEET 11 ON HOW TO MEASURE FOR COLLAR HEIGHT.

NOTE: STICKER HEIGHT IS OPTIMUM WATER LEVEL ONLY.

	STICKER HEIGHT - LARGE LIFTS (INCHES)														
WATER DEPTH (INCHES)	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
33	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
34	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
35	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
36	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
37	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
38	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
39	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
40	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58
41	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
42	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
43	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
44	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
45	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
46	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
47	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65
48	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
49	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67
50	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
51	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69
52	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70

FOR EXAMPLE, A WATER DEPTH OF 42 INCHES AND RECORDED HEIGHT ON THE WATER LEVEL STICKER OF 39 INCHES WOULD RESULT IN A COLLAR HEIGHT OF 57 INCHES.

WATER DEPTH (INCHES)	STICKER HEIGHT - LARGE LIFTS (INCHES)														
	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
53	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
54	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
55	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73
56	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
57	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
58	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76
59	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
60	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78
61	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
62	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
63	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81
64	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82
65	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83
66	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84
67	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
68	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86

FOR EXAMPLE, A WATER DEPTH OF 55 INCHES AND RECORDED HEIGHT ON THE WATER LEVEL STICKER OF 41 INCHES WOULD RESULT IN A COLLAR HEIGHT OF 72 INCHES.

BRING ANCHOR ASSEMBLY TOWARDS LIFT UNTIL AUGER TOUCHES FRAME BEAM (FIGURE 2.5). LIFT THE ANCHOR ASSEMBLY AND STOP WHEN THE AUGER HELIX TOUCHES THE BOTTOM OF THE FRAME BEAM (FIGURE 2.6).

FIGURE 2.5

2X

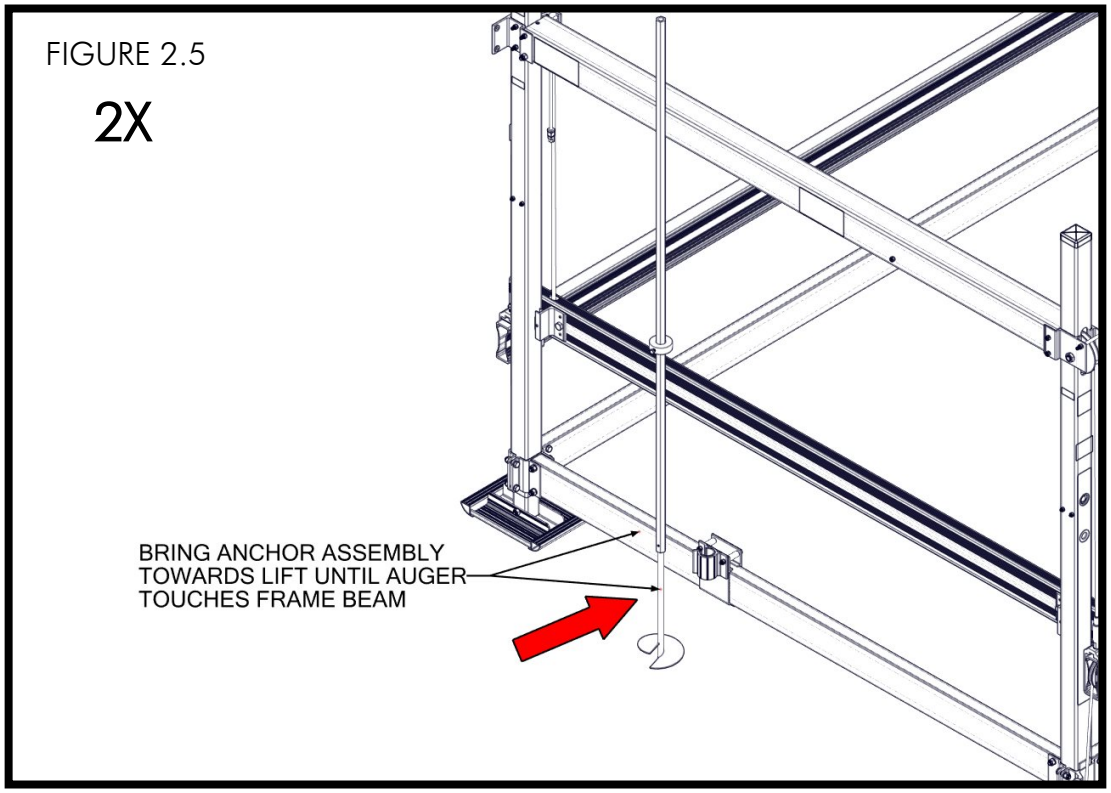
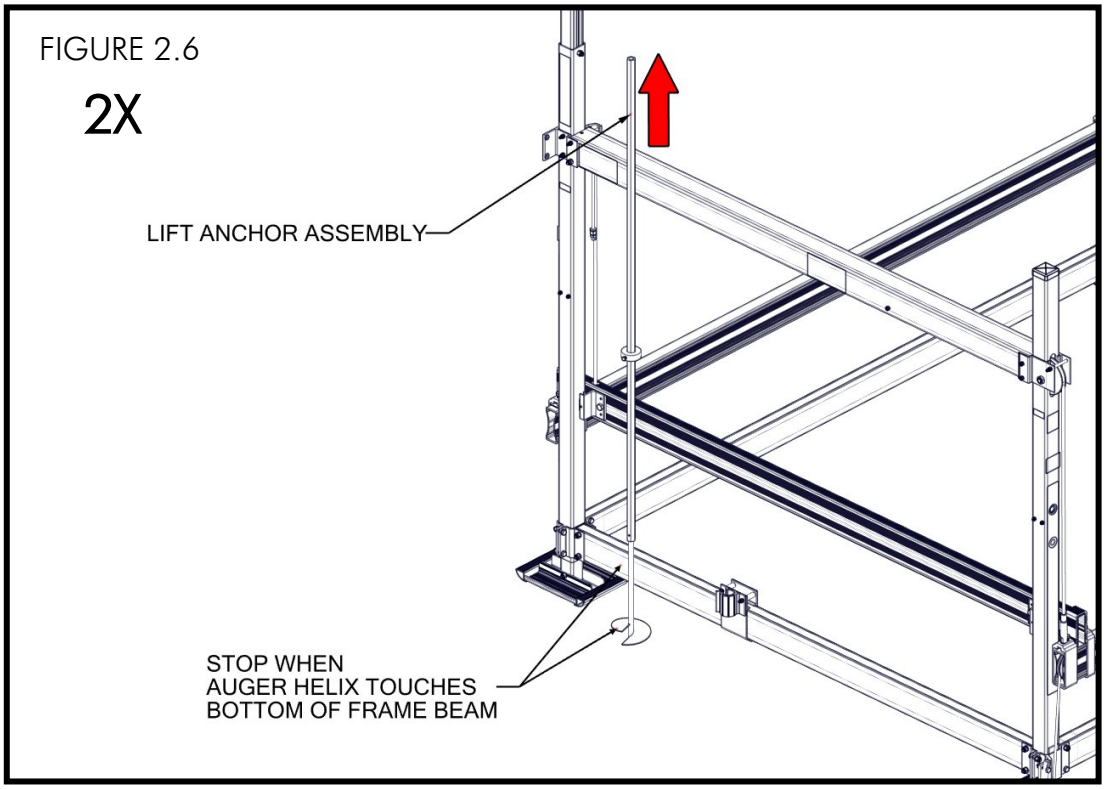


FIGURE 2.6

2X



SLIDE THE ANCHOR ASSEMBLY TOWARDS THE POCKET. NOTE THAT ONLY THE AUGER SHAFT WILL SLIDE INTO THE POCKET, THE HEX SHAFT WILL NOT (FIGURE 2.7). LOWER THE ANCHOR INTO POCKET UNTIL AUGER TOUCHES LAKE BOTTOM (FIGURE 2.8).

FIGURE 2.7

2X

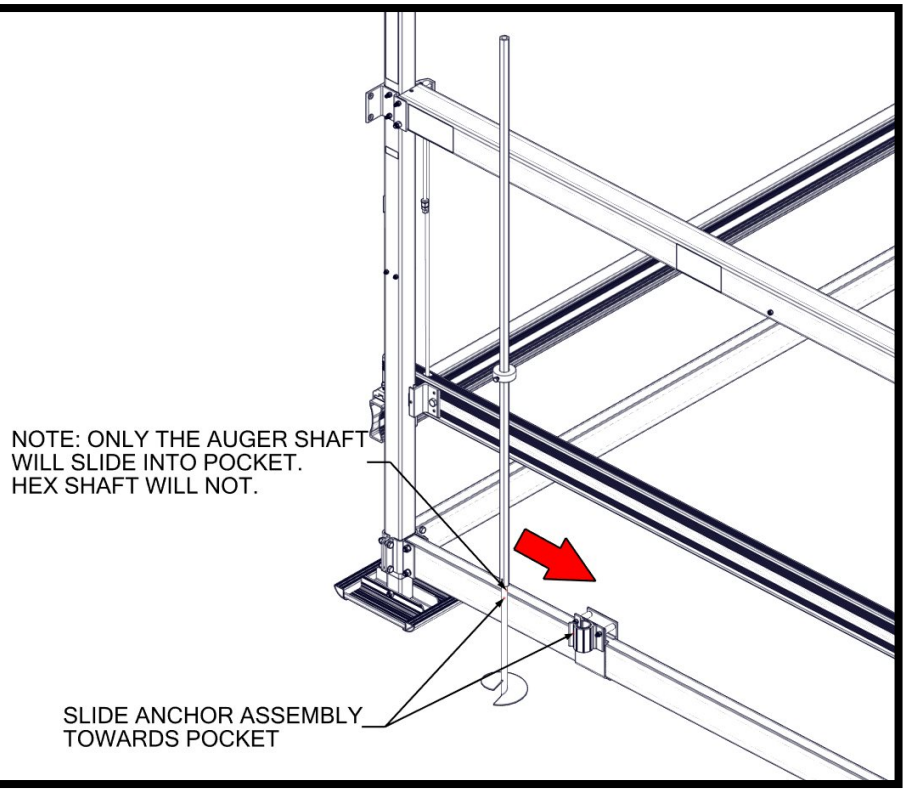
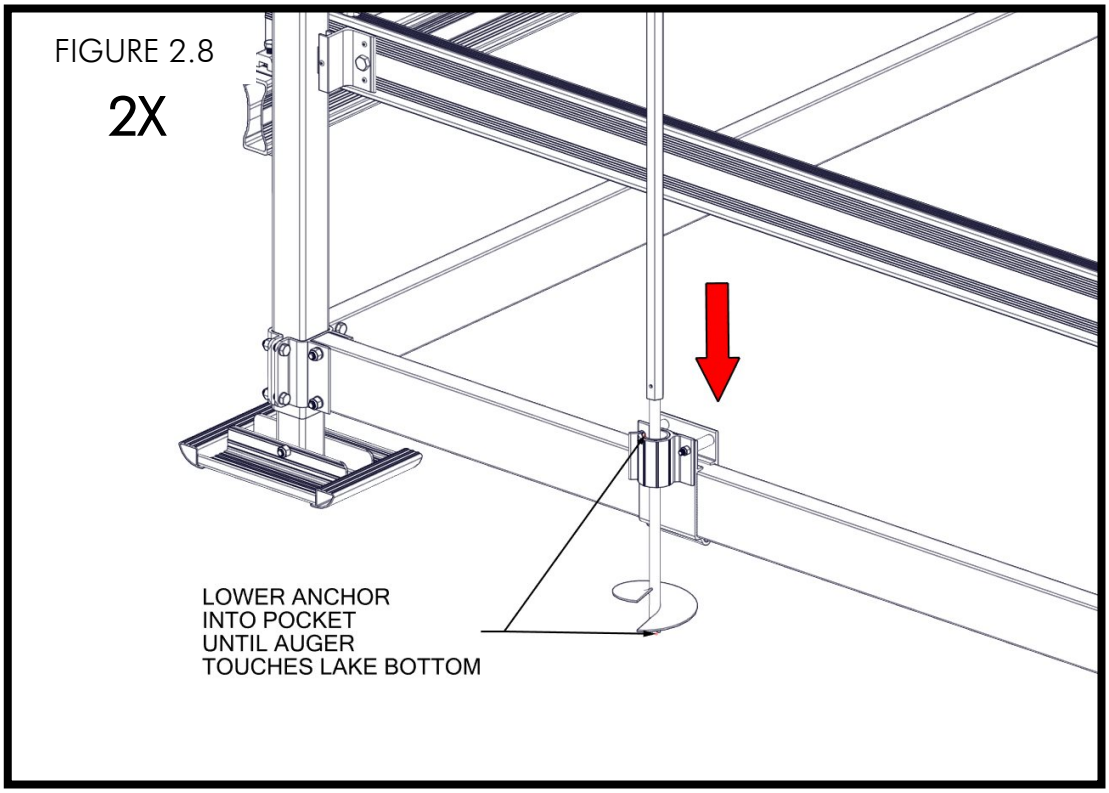


FIGURE 2.8

2X

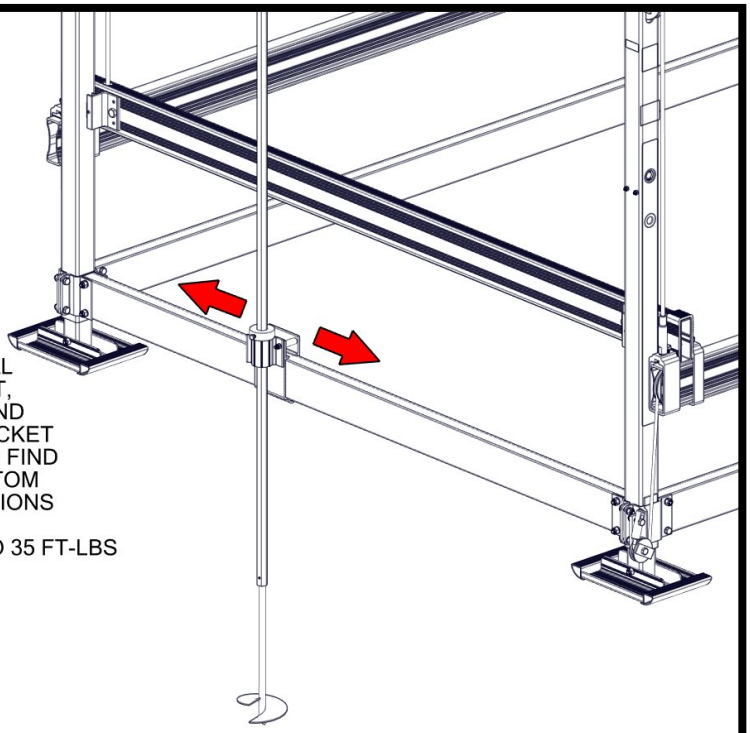


IF ADDITIONAL ADJUSTMENT IS REQUIRED, LOOSEN 3/8" NUTS AND SLIDE POCKETS ON FRAME BEAM WITH ANCHOR ASSEMBLIES UNTIL DESIRED POSITION IS FOUND. ONCE POSITION IS SET, RE-TORQUE NUTS TO 35 FT-LBS (FIGURE 2.9).

DRIVE ANCHOR ASSEMBLY INTO LAKE BOTTOM USING 1 1/8" 6 POINT SOCKET & 1/2" DRIVE RATCHET UNTIL COLLAR TOUCHES TOP OF ANCHOR POCKET (FIGURE 2.10).

FIGURE 2.9

2X



IMPORTANT

DO NOT USE AN IMPACT OR CORDLESS DRILL TO INSTALL LIFT ANCHORS.

IMPORTANT NOTE:
ONLY USE A 6 POINT SOCKET. 12 POINT SOCKETS MAY CAUSE DAMAGE TO HEX SHAFT.

6 POINT SOCKET

12 POINT SOCKET
DO NOT USE

FIGURE 2.10

2X