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DATE	REV	REVISION RECORD	AUTH	DR	CHK
1.04	С	Added 30257, 30377, 30570		KLP	
7.25.05	D	Updated quantities	KHH	KLP	CB
3.8.06	E	Procedure included incorrect	AD	MJ	CB
		drawing			
6.3.10	F	Corrected rod quantities	CB	PC	
11.15.10	G	Reworked drawing to correct	CB	PC	
		configuration quantities			

SBE P/N 50115, 50115A

SBE 1.375" frame Carousel Frame Assembly Kit

KIT CONTENTS

KII CONTE	1115			
SBE P/N	Description	Primary SBE Application		
231421	Rod, 1/2-13 Threaded, 18"	Secure and tighten Plates together	4	
23714	SBE 32 Cage U-Bolt	Interface Extension Stand to Lower Guard	6	
23715	115 SBE 32 Cage Flange Interface Extension Stand to Lower Guard		6	
23723C	SBE 24 Place Lifting Bail	Lifting Bail for Carousel		
23922	SBE 32 Large Bail Insulator	Bail to Lower hub / Adapter Plate	4	
23923	SBE 32 Large Bail Insulator	Bail to Upper hub / Adapter Plate	2	
30044	Seacat Anode, 1"	6 used on plates, 6 used on guards, 2 used on extension stand	14	
30409	Teflon Tape	Used on all strapping, and contact points of U bolts and flanges	4'	
30666	Blue Moly	Used on all threaded hardware to prevent seizing of metal on metal	1can	

HARDWARE

SBE P/N	Description	Primary SBE Application	QTY
30210	Nut, 3/8-16 nylon stop	Extension stand U-Bolts; 1 on CTD bolt (30195)	12
30231	Nut, 1/2-13 Hex	18 on hub and guard bolts; 4 on each threaded rod	34
30257	Washer, 3/8" flat, SS, 7/8" OD max	Used with U-bolts	12
30259	Washer, 1/2" flat/narrow	2 on each Hub/Plate/Guard bolt (30603, 30612); 4 on each Rod	46
30594	Washer, ½" split ring 1 on each Hub/Plate/Guard bolt (30603, 30612); 4 on each Rod		34
30603	Screw, ½-13 x 3-1/2" Socket	/2-13 x 3-1/2" Socket hub to guard securing bolts	
30611	Mach screw, 3/8-16 x 2" FH	Side bar securing screws	12
30612	Mach screw, ½-13 x 2-1/2" Hub to Plate securing bolts		12
30615	Washer, 3/4" flat, SS	Used on Lifting Bail	4
30616	Washer, ¾" Split ring lock	Used on Lifting Bail	4
30620	Nut, ¾-10 NC Hex, SS	Used on Lifting Bail	4

Kits:

SBE P/N	Description	Primary SBE Application	QTY
50199	Extension Stand CTD Installation Kit	Contains parts to mount a cage to the extension stand	1
50296	Deck Pad Kit	Contains parts to attach deck pads to frame	1

SBE Drawings:

40713.05 SBE32 1/375" Frame Assembly **40714H** Carousel Frame Parts Table **67117** Deck Pad Assembly

Sea-Bird Electronics Procedure

PROCEDURE NUMBER: 67079

TITLE: SBE32- PN50115, 1.375in Frame Assembly Kit

REVISION: G

EFFECTIVE DATE: 11/15/2010

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SECTION: 2 Assembly Instructions

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APPLICATIONS:

Accessory Parts

SBE P/N	Part Description	Primary SBE Application		
30044	Zinc Anode, 1"	3 on each adapter plate, 3 on each frame guard, 2 on ext. stand	14	
30409	Teflon Tape	Wrap 8" around each position where a U-Bolt will go	4 feet	
30666	Blue Moly NeverSeez	Apply liberally to ALL threaded areas that receive nuts	1 can	

Bottom Plate to Lower Guard

SBE P/N Part Description		Primary SBE Application	QTY
30259	Washer, 1/2" Flat/narrow	1 above plate, 1 below guard	12
30594	Washer, 1/2" split ring lock	1 below guard	6
30231	Nut, ½-13 Hex	1 below guard	6
30603	Cap Screw, ½-13 x 3-1/2" Socket Head	Secure lower plate to frame, outer ring, alternate with rods	6

Hub to Adapter Plates

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SBE P/N	N Part Description Primary SBE Application		QTY
30231	Nut, ½-13 Hex	Pylon hub to top & bottom guards, 1 per bolt	12
30259	Washer, 1/2" flat/narrow	2 per bolt from hub to bottom plate; 1 per bolt from top plate to hub	18
30594	Washer, ½" split ring	1 on each Hub to Plate bolt	12
30612	Screw, ½-13 x 2-1/2" Socket	Adapter plates to hub	12

Top Guard to Lower Guard

SBE P/N	Part Description	Primary SBE Application	
231421	Rod, ½-13, 18" length	Secure Outer ring on Plates together	4
30259	Washer, 1/2" Flat/narrow	16 used on rods	16
30594	Washer, 1/2" split ring lock	16 on rods	16
30231	Nut, ½-13 Hex	16 on rods	16
30611	Screw, 3/8-16 x 2" FH, SS, CS	Side pars, 2 per bar	12

Pylon Lifting Bail

SBE P/N	Part Description	Primary SBE Application	QTY
23723C	SBE 24 Place Lifting Bail	Lifting Bail for Carousel	1
23922	SBE 32 Large Bail Insulator	Bail to Lower hub / Adapter Plate	4
23923	SBE 32 Large Bail Insulator	Bail to Upper hub / Adapter Plate	2
30615	Washer, 3/4" flat, SS	Use at each lower hub insulator interface	4
30616	Washer, 3/4" Split ring lock	Use between flat washer and stop nut	4
30620	Nut, ¾-10 NC Hex, SS	Above adapter plate to provide extra tension Below to secure in place	4

Extension Stand

SBE P/N	Part Description	Primary SBE Application		
23714	SBE 32 Cage U-Bolt	Interface Extension Stand to Lower Guard	6	
23715	SBE 32 Cage Flange	Interface Extension Stand to Lower Guard	6	
30210	Nut, 3/8-16 nylon stop	Extension stand U-Bolts	12	
30257	Washer, 3/8 flat	Extension stand U-Bolts	12	
30409	Teflon Tape	Wrap 8" around each position where a U-Bolt will go	4 feet	

SBE Drawings:

40713.05 SBE32 1/375" Frame Assembly **40714H** Carousel Frame Parts Table **67117** Deck Pad Assembly

Sea-Bird Electronics Procedure

PROCEDURE NUMBER: 67079

TITLE: SBE32- PN50115, 1.375in Frame Assembly Kit

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Note on Prep Work

- 1. Many parts for the extension stand may already be installed.
- 2. All of the anodes may be installed.
- 3. Deck pads are installed.
- 4. Lifting bail assembly will not be installed on the hub, but the bail insulators may be installed.
- 5. All screws need a liberal amount of Blue Molly/Never Seez applied before installation.

Carousel Frame Final Assembly

Refer to SBE Assembly drawing for details

- 1. Clear off a large enough space, and cover the floor with carpet or cardboard to protect the paint on the frame.
- 2. Assemble the frame according to following instructions.

A. Install and secure lower plate onto lower guard.

- 1. Set the lower frame on 2x4's to allow access for hardware installation.
 - a. Brace the frame on no less than 4 equally spaces blocks to prevent tipping.
- 2. Install the bottom plate to the lower guard so that all the pins are facing up.
 - a. Align it so that the 2 largest holes on the plate are lined up with the same size holes on guard. (these are for the lifting bail that is installed later)
- 3. Secure with 6 bolts (30603), 12 flat washers (30259), 6 lock washers (30594), and 6 nuts (30231).
 - a. From the top-put each bolt through one flat washer then through the carousel frame, a second flat washer, a lock washer and finally the nut.
 - b. Positioning of the bolts goes:
 - large hole bolt empty hole bolt empty hole bolt large hole (around both ways)
 - For more clarification see the drawing.

B. Install and secure Hub (with pylon removed).

- 1. The end of the hub with the most holes installs towards the top.
- 2. Secure the hub to the bottom plate with 6 bolts (30612), 12 flat washers (30259), 6 lock washers (30594), and 6 nuts (30231).
 - a. From the top-put each bolt through one flat washer then through the hub and bottom plate, a second flat washer, a lock washer and finally the nut.

C. Install and secure upper Plate.

- 1. Install top plate so that the curved edge of outer ring is on top.
- 2. Line up the plate so that the large holes line up over the large holes in the lower plate.
- 3. Secure the top plate to the hub with 6 bolts (30612), 6 flat washers (30259), 6 lock washers (30594), and 6 nuts (30231).
 - a. From the top-put each bolt through the top plate and hub, a flat washer, a lock washer and finally the nut.

SBE Drawings:

40713.05 SBE32 1/375" Frame Assembly **40714H** Carousel Frame Parts Table **67117** Deck Pad Assembly

Sea-Bird Electronics Procedure

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D. Install and secure upper guard.

- 1. Install the upper guard over the top plate.
- 2. Line up the large holes with the large holes in the plate.
- 3. Secure to the lower guard directly with the threaded rods.
 - a. Slide the threaded ring through the upper guard and top plate.
 - b. Thread a nut (30231) far enough up the threaded rod that the top of the rod can be removed from the top plate and guard.
 - c. Then place a lock washer (30594) and a flat washer (30259) (in that order) onto the bottom of the threaded rod before inserting it into the hole in the bottom plate.
 - d. Thread a nut, a lock washer, and a flat washer onto the top of the threaded rod. Move them far enough down the threaded rod that the top of the rod will once again be above the upper guard when it is through the hole.
 - e. Put the top of the threaded rod through the hole in the top guard and plate.
 - f. Thread a flat washer, lock washer, and nut onto the top and bottom of the rod. (as they come through the plates/guards).
 - The lock washer always goes against the nut.
 - g. Repeat for the other three threaded rods.
 - Do not tighten the nuts down at this time.
- 4. The side bars are secured to upper and lower guards with 1 bolt (30611) on each end.
 - a. There are two different styles of side bars one has 1 arc on each end the other has 1 arc on one end and a double arc on the other.
 - b. The 3 bars with single arcs on both ends line up under the three bars on the upper guard.
 - The arced area goes over the outside of the carousel guard frame.
 - c. The other 3 bars go in the remaining places, with the double arc end attached to the upper guard.
- 5. Tighten down the hardware on the threaded rods.

E. Install lifting bail (kit 50115 only).

- 1. Install the two large 1.85" bail insulator (23923) from the top into the large holes in the upper guard/top plate.
 - a. The flange will rest on the top.
- 2. Install the four 1.2" bail insulator (23922) into the large holes in the bottom plate/lower guard.
 - a. Two go in from the top, the other two from the bottom.
- 3. Insert the two legs of the lifting bail into the upper bail insulators.
- 4. Thread on a nut (20620), a lock washer (30616), and a flat washer (30615) (in that order) onto each leg of the lift bail.
 - a. Thread these up far enough that the spacers on the top of the lifting bail are sitting on the surface of the upper bail insulators.
- 5. Feed the legs of the lift bail through the bottom plate and lower guard.
- 6. On the bottom of the lift bail install a flat washer, a lock washer, and a nut. Tighten these down.
- 7. Tighten down the nuts on the top of the bottom plate.
 - a. The nuts should be tightened down on the top and bottom of the bottom plate/lower guard.

SBE Drawings:

40713.05 SBE32 1/375" Frame Assembly **40714H** Carousel Frame Parts Table **67117** Deck Pad Assembly

Sea-Bird Electronics Procedure

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TITLE: SBE32- PN50115, 1.375in Frame Assembly Kit

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F. Install CTD cage into extension stand per drawing 40683.

- 1. Place the extension stand, deck pad side down, onto the floor.
- 2. The CTD and cage installs into the frame per drawing 40683 with pre-installed hardware.
 - a. You will need to remove the hardware and use it to install the cage.
- 3. Any external sensors may be mounted later for safety, or now for convenience.

G. Install the carousel onto extension stand per assembly drawing 40713.

- 1. Wrap the top bar of the extension stand with 1" wide Teflon tape (pn 30409).
 - a. Six (6) locations total evenly spread out around the extension stand.
 - b. Wrap each location 2-3 times.
- 2. Use a winch to lift the carousel and set it on the extension frame.
 - a. If a winch is not available have 4 or more people lift the carousel and set it on the extension frame.
 - b. Line up the support bars with the extension stand uprights.
- 3. Wrap the surface of the lower guard with 1" wide Teflon tape corresponding to the tape on the extension stand.
- 4. Secure each location with one u-bolt, one cage flange, two washers (30257), and two nuts (30210).
 - a. Place the u-bolt over the lower guard then the extension frame, then place the cage flange over both legs of the u-bolt; one washer and one nut, in that order, are placed over each leg of the u-bolt and tightened down.

SBE Drawings:

40713.05 SBE32 1/375" Frame Assembly **40714H** Carousel Frame Parts Table **67117** Deck Pad Assembly

Sea-Bird Electronics Procedure

PROCEDURE NUMBER: 67079

TITLE: SBE32-PN50115, 1.375in Frame Assembly Kit

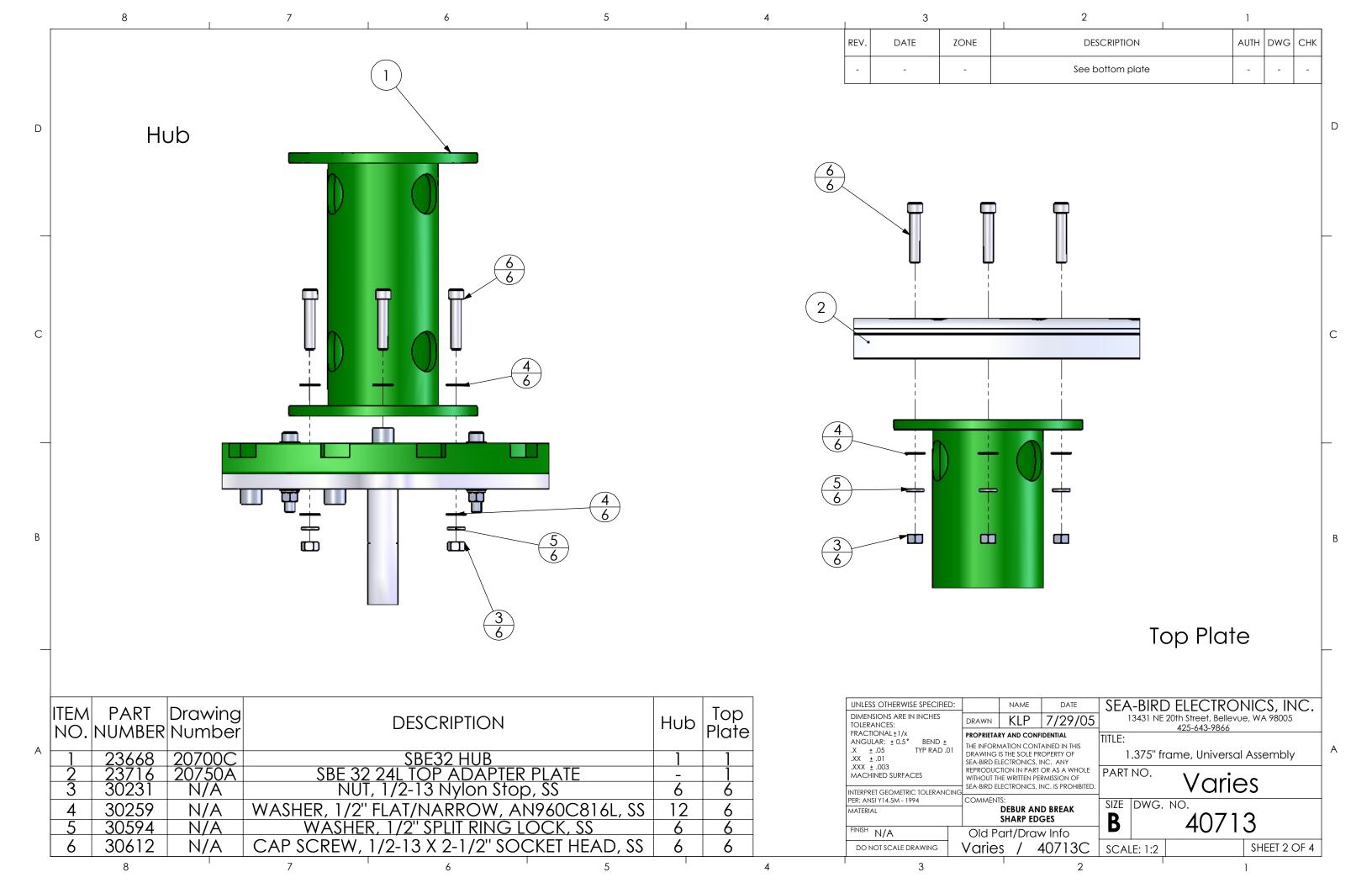
REVISION: G

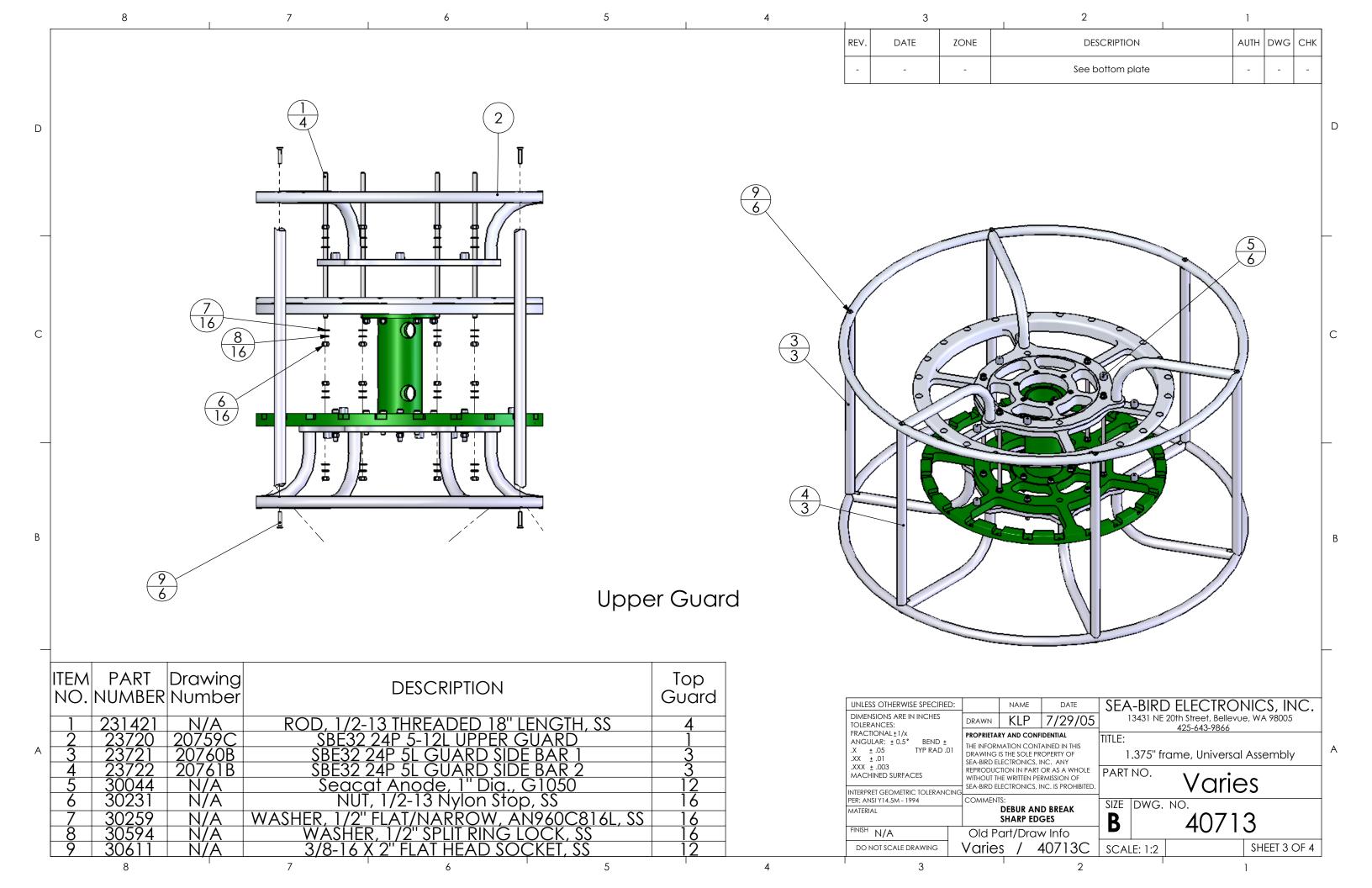
EFFECTIVE DATE: 11/15/2010

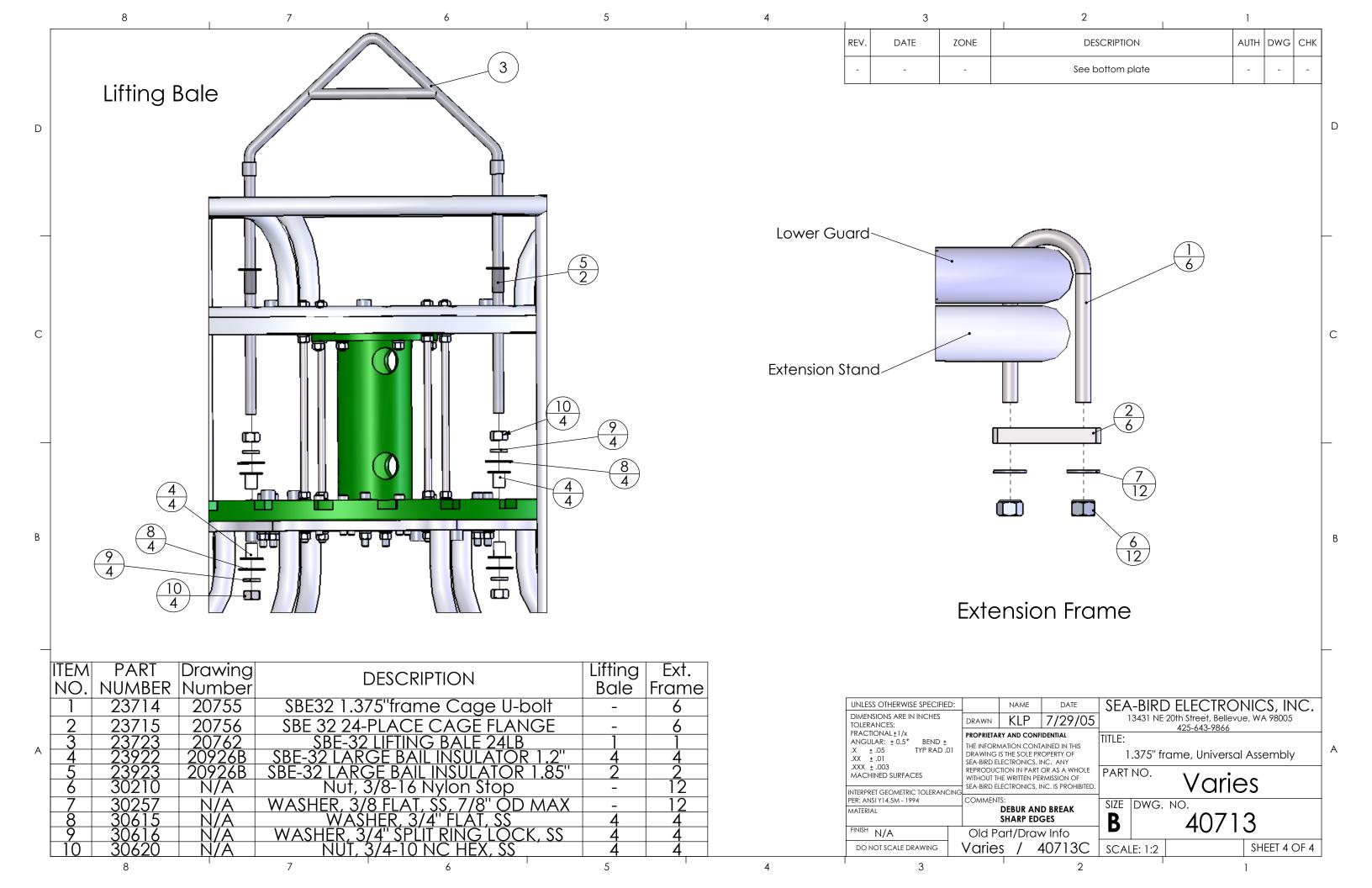
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REV AUTH DWG CHK DATE ZONE **DESCRIPTION** 3/14/95 Changed miscellaneous text 5/99 MJ Added 24 place hardware KLP 12/3/03 Removed DWG revisions Notes: 7/29/05 KLP KLP Redrawn in Solidworks and added dwg 40697 1. Refer to drawing 40714 for specific Reworked configurations to display correct BoM СВ РС 11/16/2010 part numbers for each frame type.

2. Apply Never-Seez to all threaded hardware prior to assembly. **Bottom Plate** PART Drawing **Bottom** ITEM **DESCRIPTION** NO. NUMBER Number Plate SEA-BIRD ELECTRONICS, INC. UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES 13431 NE 20th Street, Bellevue, WA 98005 425-643-9866 20751 23717 SB3-32 BOTTOM ADAPTER PLATE 7/29/05 KLP DRAWN TOLERANCES: FRACTIONAL±1/x ANGULAR: ± 0.5° PROPRIETARY AND CONFIDENTIAL 20758 SBE32 CAROUSEL 24 PLACE 5 LITER LOWER GUARD 23719 TITLE: BEND ± THE INFORMATION CONTAINED IN THIS TYP RAD .01 .X ± .05 1.375" frame, Universal Assembly DRAWING IS THE SOLE PROPERTY OF SEA-BIRD ELECTRONICS, INC., ANY Seacat Anode, 1" Dia., G1050 3 30044 N/A 6 REPRODUCTION IN PART OR AS A WHOLE PART NO. MACHINED SURFACES N/A NUT, 1/2-13 Nylon Stop, SS Varies 30231 WITHOUT THE WRITTEN PERMISSION OF 6 SEA-BIRD ELECTRONICS, INC. IS PROHIBITED INTERPRET GEOMETRIC TOLERANCIN PER: ANSI Y14.5M - 1994 WASHER, 1/2" FLAT/NARROW, AN960C816L, SS N/A 12 30259 SIZE DWG. NO. DEBUR AND BREAK B 40713 SHARP EDGES WASHER, 1/2" SPLIT RING LOCK, SS N/A 30594 6 FINISH N/A Old Part/Draw Info CAP SCREW, 1/2-13 X 3-1/2" SOCKET HEAD, SS 30603 N/A 6 DO NOT SCALE DRAWING Varies / 40713C SHEET 1 OF 4 SCALE: 1:2 3







HUB IS NOT INC	CLUDED:	HUB	PART NUMBERS	HUB IS INCL	UDED:	
6800M	7000M		10,500M	6800M	7000M	10,500M
90409, 12-Position	90413, 12-	-Position	90416, 12-Position	90420, 12-Position	90425, 12-Position	90427, 12-Position
90410, 24-Position	90414, 24-	-Position	90417, 24-Position	90421, 24-Position	90426, 24-Position	90428, 24-Position
Subconn						
90476, 12-Position	90479, 12-	-Position	90482, 12-Position			
90477, 24-Position	90480, 24-	-Position	90483, 24-Position			

DATE	SYM	REVISION RECORD	AUTH.	DR.	CK.
07/28/94	Α	P/Ns ADDED FOR 24/8,10,12	PG	DG	
08/23/94	В	P/Ns CHANGED FOR 12/1.7	RB	DG	
06/4/96	С	Updates for New Assemblies		JEB	
12.05.00	D	Update 12-20, Remove SC	СВ	MJ	СВ
12.04.02	Ε	See Rev.E Text File	СВ	MJ	СВ
12.03.03	F	Added Subconn to Pylon only	СВ	KLP	СВ
10.25.04	G	ADDED GUARD DIA. TABLE	MJ	KHH	
8.10.05	Н	ADDED MORE KITS	KLP	KLP	

CAROUSEL ASSEMBLI PART NUMBERS								AC	APTER PLATES						
BOTTLE MOUNT STAND		/H\		GUAF	RD	GUARD	GUARD SIDE BAR CTD EXTENSION STAND		ION STAND	SBE P/N		PRICE LIST P/N	LIFTING	0405	II DOLT
DESCRIPTION	PRICE LIST P/N	ASSY DWG	FRAME SIZE	UPPER	LOWER	1	2	SBE P/N	PRICE LIST P/N	TOP	воттом	(SET)	LIFTING BAIL	CAGE U-BOLT	U-BOLT FLANGE
12 BOTTLE / 1.2 LITER	80723	-none-	1 in.	23677C	-none-	23742C	23743C	23675C	80742	70071	(SET)	80737	23678	23694	23695
12 BOTTLE / 1.7 LITER	80723	41468	1 in.	23677C	23676C	23679C	23681C	23675C	80742	70071	(SET)	80737	23678	23694	23695
12 BOTTLE / 2.5 LITER	80724	41466	1 in.	23677C	23741C	23739C	23740C	23675C	80742	70071	(SET)	80737	23678	23694	23695
12 BOTTLE / 5 LITER	80725	41468	1 in.	23677C	23676C	23679C	23681C	23675C	80742	70071	(SET)	80738	23678	23694	23695
12 BOTTLE / 8 LITER	80726	41466	1 in.	23677C	23741C	23739C	23740C	23675C	80742	70071	(SET)	80738	23678	23694	23695
12 BOTTLE / 10 LITER	80727	41469	1 in.	23677C	23683C	23680C	23682C	23675C	80742	70071	(SET)	80738	23678	23694	23695
12 BOTTLE / 12 LITER	80728	41470	1 in.	23677C	23703C	23701C	23702C	23675C	80742	70071	(SET)	80738	23678	23694	23695
12 BOTTLE / 20 LITER	80729	41438	1.375 in.	23720C	23857C	23855C	23856C	23724C	80743	23902C	23903C	80739	23723	23714	23715
12 BOTTLE / 30 LITER	80730	41439	1.375 in.	23720C	23783C	23781C	23782C	23724C	80743	23902C	23903C	80739	23723	23714	23715
24 BOTTLE / 1.2 LITER	80731	-none-	1 in.	23736C	-none-	23742C	23743C	23738C	80744	23729C	23730C	80740	23678	23694	23695
24 BOTTLE / 1.7 LITER	80731	-none-	1 in.	23736C	-none-	23742C	23743C	23738C	80744	23729C	23730C	80740	23678	23694	23695
24 BOTTLE / 2.5 LITER	80732	41467	1 in.	23736C	23737C	23725C	23726C	23738C	80744	23729C	23730C	80740	23678	23694	23695
24 BOTTLE / 5 LITER	80733	41434	1.375 in.	23720C	23719C	23721C	23722C	23724C	80743	23716C	23717C	80741	23723	23714	23715
24 BOTTLE / 8 LITER	80734	41435	1.375 in.	23720C	23857C	23855C	23856C	23724C	80743	23716C	23717C	80741	23723	23714	23715
24 BOTTLE / 10 LITER	80735	41436	1.375 in.	23720C	23854C	23852C	23853C	23724C	80743	23716C	23717C	80741	23723	23714	23715
24 BOTTLE / 12 LITER	80736	41437	1.375 in.	23720C	23783C	23781C	23782C	23724C	80743	23716C	23717C	80741	23723	23714	23715

NOTES:

- 1. REFER TO FRAME ASSEMBLY DRAWING 40713 FOR PART LOCATIONS.
- 2. ASSEMBLY DRAWING DOES NOT INCLUDE BOTTLES, PYLON & SENSORS

TOLERANCES	SEA-BIRD F	ELECT	RONICS,	INC
FRACTIONAL	P/N	SCALE	DRAWN BY)G
			APPROVED BY	
DECIMAL	TITLE			
	SBE 32 CAROU:			NENTS
ANGULAR	DATE	NO. ET 1 OF 2	40714	REV H

DATE	SYM	REVISION RECORD	AUTH.	DR.	CK.
07/28/94	Α	P/Ns ADDED FOR 24/8,10,12	PG	DG	
08/23/94	В	P/Ns CHANGED FOR 12/1.7	RB	DG	
06/4/96	С	Updates for New Assemblies		JEB	
12.05.00	D	Update 12-20, Remove SC	СВ	MJ	СВ
12.04.02	Е	See Rev.E Text File	СВ	MJ	СВ
12.03.03	F	Added Subconn to Pylon only	СВ	KLP	СВ
10.25.04	G	ADDED GUARD DIA. TABLE	MJ	KHH	
8.10.05	Н	ADDED MORE KITS	KLP	KLP	





		ASSEMBL	Y KITS	<u>/H\</u>	<u>ZH\</u>	<u>ZH\</u>	
BOTTLE MOUNT STAND DESCRIPTION	FRAME SIZE	HARDWARE	LIFT BAIL	EXTENSION STAND CTD INSTALL	DECK PAD	U-Bolt Sets	
12 BOTTLE / 1.2 LITER	1 in.	50112	50111	50199	50297	50211	
12 BOTTLE / 1.7 LITER	1 in.	50112	50111	50199	50297	50211	
12 BOTTLE / 2.5 LITER	1 in.	50112	50111	50199	50297	50211	
12 BOTTLE / 5 LITER	1 in.	50112	50111	50199	50297	50211	
12 BOTTLE / 8 LITER	1 in.	50112	50111	50199	50297	50211	
12 BOTTLE / 10 LITER	1 in.	50112	50111	50199	50297	50211	
12 BOTTLE / 12 LITER	1 in.	50112	50111	50199	50297	50211	
12 BOTTLE / 20 LITER	1.375 in.	50115	50156	50199	50296	50212	
12 BOTTLE / 30 LITER	1.375 in.	50115	50156	50199	50296	50212	
24 BOTTLE / 1.2 LITER	1 in.	50112	50111	50199	50297	50211	
24 BOTTLE / 1.7 LITER	1 in.	50112	50111	50199	50297	50211	
24 BOTTLE / 2.5 LITER	1 in.	50112	50111	50199	50297	50211	
24 BOTTLE / 5 LITER	1.375 in.	50115	50156	50199	50296	50212	
24 BOTTLE / 8 LITER	1.375 in.	50115	50156	50199	50296	50212	
24 BOTTLE / 10 LITER	1.375 in.	50115	50156	50199	50296	50212	
24 BOTTLE / 12 LITER	1.375 in.	50115	50156	50199	50296	50212	

1.	REFER	TO	FRAME	ASSEMBLY	DRAWING	40713	FOR	PART	LOCATIONS.	

REFER TO FRAME ASSEMBLY DRAWING 40713 FOR PART LOCATIONS.
 ASSEMBLY DRAWING DOES NOT INCLUDE BOTTLES, PYLON & SENSORS

TOLERANCES	SEA-BIRI	D ELECT	RONICS,	INC
FRACTIONAL	P/N	SCALE	DRAWN BY [DG .
	1 / 10		APPROVED BY	
DECIMAL	TITLE			
	SBE 32 CA	ROUSEL : FR	RAME COMPO	NENTS
ANGULAR	DATE 4/11/94	DWG NO. SHEET 2 OF 2	40714	REV H

