

SEA-BIRD ELECTRONICS, INC.

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SBE P/N 50299

DATE	REV	REVISION RECORD	AUTH	DR	CHK
7.11.05	Α	Updated assembly info	KLP		

SBE 32 Spare Titanium Latch Kit

TITANIUM LATCH PARTS

SBE P/N	Manufacturer P/N	Primary SBE Application	Drawing	Qty
23654	Trigger Pivot Bushing	Placed in small open area of trigger slider	20695	1
23870C	Trigger Side Plate, Ti	Coated trigger side plate with protruding pins	20686	1
23871C	Trigger Cover Plate, Ti	Coated trigger cover plate secured to side plate	20687	1
23872C	Trigger Hook, Ti	Coated trigger placed on side plate pivot shaft to move freely	20688	1
23873C	Trigger Slider, Ti	Placed on large pin of trigger side plate	20689	1
23875	Trigger Support Bar 1, Ti	Attached to side of trigger assembly (indentation faces outside of assembly)	20691	1
23876	Trigger Support Bar 2, Ti	Attached to side of trigger assembly (indentation faces outside of assembly)	20692	1
23877	Trigger Spacer, Ti	Spacers between cover and side plates, aligned with screw holes	20696	2
23878	Trigger Pivot Shaft, Ti	Inserts into trigger side plate pivot area	20742	1
232023	SBE32 Actuator Disc, 17-4, SS	Attached to trigger lever for magnetic triggering	20649	1
232094	Trigger Lever, 15-20% Glass Acetal	Placed on pins of side plate and slider to move freely	22239	1

HARDWARE

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SBE P/N	Part Description	Primary SBE Application	QTY	
30115	Mach Screw, 2-56 x 1/4 FH, SS	Secure actuator disk to trigger lever	2	
30657	Mach Screw, 2-56 x 3/8 FH, Slot, Ti	Secure cover plate and slider to side plate	1	
30659	Mach Screw, 4-40 x 13/16 FH, Slot, Ti	Attach support bars to trigger assembly	2	
30663	Latch Spring, .012"	Placed in large open area of slider against pin to	1	
		provide recoil motion		

O-RINGS

SBE P/N	Manufacturer P/N	Primary SBE Application	QTY
30618	O-Ring, Parker, 2-106 E962-90	(2) placed on trigger spacer for cover plate cushion	2

Latch Assembly

A. Assemble and Install Latch Center Mechanism

- 1. Set the trigger side plate (23870C) on the table, such that the round corner faces bottom right.
- 2. Slip the trigger pivot support shaft (23878) into the hole in the rounded end.
- 3. Set the trigger hook (23872C) onto the pivot support shaft
 - a. The notched hook should open up and to the left.
 - see drawing 76064.
- 4. Set the trigger slider (23873) over the pin in the center of the trigger side plate.

SBE DRAWING:

76064D SBE 32 Titanium Latch Assembly

Sea-Bird Electronics Procedure

PROCEDURE NUMBER: 67157

TITLE: SBE Spare Ti Latch Kit Assembly

REVISION: A

EFFECTIVE DATE: 07/18/2005

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- a. The cut out notch should be on the top, facing left.
- b. The larger slot over the large pin and the smaller slot over the threaded hole above it.
- 5. Insert a pivot bushing (23654) in the smaller slot of the trigger slider.
- 6. Compress the latch spring (30663) and insert it into the large slot on the trigger slider between the pin and the top of the slot.
- 7. Install the trigger lever (232094) over the pin on the trigger slider and the lower left pin on the side plate.
 - see drawing 76064 for orientation
- 8. Install the trigger cover plate (23871C) over the entire part.
 - a. The bottom shape of the part needs to match up to the bottom shape of the Trigger side plate.
 - b. The beveled side of the cover plate should face outward from the latch.
- 9. Fit one 2-56 x $\frac{1}{4}$ " screw (30657) into the hole toward the top for the cover plate, fit it thru the pivot bushing in the trigger slide and into the threaded hole in the side plate.
 - a. Tighten only enough to engage the threads in the side plate and hold the assembly together.

B. Assemble and Install latch rails

- 1. Fit 2 o-rings (30618) over 1 trigger spacer (23877) so they are snug and somewhat centered.
- 2. Push the assembly into the space between the trigger and the side plate closest to the rounded end. a. Line up with the holes in the cover and side plates.
- 3. Apply Loctite 222 to the tips of 2 screws (30659) and wipe them off with a Kim wipe.
- 4. Set the trigger support bar 1 (23875) over the top of latch so the large end tapers to the top of the latch.
- 5. Install the first screw through right hole, and through the plates and the o-ring/spacer assembly.
- 6. Secure screw into support bar 2 (23876). Support bar 2 should line up parallel with bar 1.
- 7. Push a bare trigger spacer (23877) onto the peg under the trigger lever.
 - a. Line up with the holes in the cover and side plates.
- 8. Install the second screw, the same way as the first.

C. Tighten and test latch

- 1. The 2 screws through the support bars should be tightened down hard.
- 2. The smaller top screw is much more crucial.
 - a. Tighten the screw nearly hand tight and test latch.
 - b. Latch should open freely under gravity.
 - c. If the screw is too tight, it will cause friction against the latch.
 - d. We need to tighten this screw as much as possible without causing any friction.
 - refer to doc 76128 for torque specifications
- 3. When latch is properly tightened and works well, set it in a box until all latches are complete.

D. Install Actuator disk

- 1. Lay a bead of DC-4 over entire lever.
- 2. Install actuator disk onto lever with countersinks facing out.
- 3. Secure with 2 screws (30115).

SBE DRAWING:
5(0(4D CDE 22 E)

76064D SBE 32 Titanium Latch Assembly

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