



SEA-BIRD ELECTRONICS, INC.

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SBE P/N 50138

DATE	SYM	REVISION RECORD	AUTH	DR	CHK

SBE9plus Titanium Hardware Kit

Kit Contents

SBE P/N	Manufacturer P/N	Primary SBE Application	QTY
17527	Terminal, Insulated	9plus: Insulator used on bottom Cardfile assembly	2
30115	Mach screw 2-56 x 1/4 FH SS	SBE 32: Secure actuator disk to trigger lever	2
30117	Mach screw 2-56 x 5/16 PH SS	Small sensors: Mount boardset to endcap	4
30125	Mach screw 4-40 x 3/8 PH SS	9plus: Secure Cable clamps to Connector rail	8
30126	Mach screw 4-40 x 3/8 PH SS	Small sensors: secure anodes to housings	2
30128	Mach screw 4-40 x 1/2 FH SS	9plus: Secure Digi retainer, Rails; 11plus: secure rails	20
30129	Mach screw 4-40 x 1/2 PH SS	9plus: Backplane Assembly	10
30142	Mach screw 6-32 x 3/8 PH SS	9plus: Used to secure insulators to cage mounting straps SBE 11plus: Secure fan	4
30146	Mach screw 6-32 x 1/2 FH SS	9plus: Secure Standoff rings, PCB Heat sink	13
30194	Bolt 3-8-16 x 1-1/4 Hex SS	9plus: Fastens cage mounting straps around CTD housing	4
30226	Nut, 1/4-28 Hex, SS	SBE 3: Secures Probe to endcap	1
30235	Washer, #2 nylon	9plus: Used with Coil Terminate securing screws (30116)	4
30236	Washer, #8 nylon	9plus: Used with CTD Grounding strap screws (30154)	1
30238	Washer, #4 Flat, SS	9plus: Secure Cable clamps and solder lug	5
30244	Washer, #6 int tooth	SBE 4: Used with cell guard securing screws (30131)	2
30258	Washer, 3/8 Split ring lock	9plus: used with cage mounting screws (30194)	4
30269	Screw Insul #10 3 3/8"	9plus: Used with Endcap to Housing Hardware	10
30342	Screw Insul #10 x 3/4	9plus: Used with endcap to housing screws (5 per endcap)	4
30343	Mach screw 8-32 x 1-1/8 PH Al	Al Pump: Secure pump cover to endcap	4
30346	Mach screw, 10-24 x 1", Hex TT	9plus: Secure CTD Endcaps to housing	10
30964	Mach screw, 4-40 x 5/8, PH TT	SBE 4: Conductivity Cell securing screws	4
30374	Washer, 1/4" ID, Flat, NYL	SBE 3: Used with 30226 Temp probe nut	1
30447	Bolt, 1/4-20 x 1-1/4" Hex TT	17plus: SEARAM Lifting Bail Padeye Hardware	2
30514	Mach screw, 8-32 x 1/2 PH TT	9plus: Secure Temp-Cond sensor strap to mount bar	2
30516	Spacer, 6-32 x 1" Hex SS M-F	9plus: Connect internal endcap to standoff ring	3
30526	Cap Screw, 1/4-20 x 3/4 NYL	9plus: Use to plug endcap Jackscrew holes	6
30544	Mach screw, 8-32 x 1/2 FH TT	9plus: Fasten sensor mount block to sensor mount bar	10
30545	Mach screw, 10-24 x 1" FH TT	90149: Actuator securing screw	2
30547	Washer, #10 Flat, TT	90149: Used with 30545, Actuator hardware	2

Sea-Bird Electronics Procedure

PROCEDURE NUMBER: 67131

TITLE: **SBE 9plus Titanium Hardware Kit**

REVISION:

EFFECTIVE DATE: **06/17/2003**

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APPLICATIONS:

SBE 9plus CTD

SBE P/N	Manufacturer P/N	Primary SBE Application	QTY
30142	Mach screw 6-32 x 3/8 PH SS	Used to secure insulators to cage mounting straps	8
30148	Mach screw 6-32 x 5/8 FH SS	Hardware for special Cardfile retainer assembly	6
30154	Mach screw 8-32 x 3/8 PH SS	Attach CTD Groundstrap to connector endcap	4
30158	Mach screw 8-32 x 5/8 PH SS	Secures retainer strap to sensor mount bar	2
30173	Mach screw 10-32 x 1 FH SS	Frame: Secure vertical bars to cage guards	4
30182	Mach screw 10-24 x 1-1/4 PH SS	(5 ea) secure top and bottom endcaps to CTD housing	20
30194	Bolt 3-8-16 x 1-1/4 Hex SS	Fastens cage mounting straps around CTD housing	4
30196	Bolt 3/8-16 x 1-3/4 PH SS	CTD Eyelet screw	2
30235	Washer, #2 nylon	Used with Coil Terminate securing screws (30116)	8
30236	Washer, #8 nylon	Used with CTD Grounding strap screws (30154)	2
30248	Washer, #8 Split Ring Lock	Used with retainer strap screw (30158)	4
30258	Washer, 3/8 Split ring lock	used with cage mounting screws (30194)	4
30270	Screw Insul #10 x 3/4	Used with endcap to housing screws (5 on each endcap)	20
30517	Bolt 3/8-16 x 2 Hex HD, AL	Secure TC mount bar to bottom endcap	4

SBE 3, 4 Temperature Conductivity Sensors

SBE P/N	Manufacturer P/N	Primary SBE Application	QTY
30117	Mach screw 2-56 x 5/16 PH SS	Mount boardsets to endcaps	4
30126	Mach screw 4-40 x 3/8 PH SS	secure anodes to housings	12
30226	Nut, 1/4-28 Hex, SS	Secures Temperature Probe to endcap	2
30964	Mach screw, 4-40 x 5/8, PH TT	Conductivity Cell securing screws	4
30374	Washer, 1/4" ID, Flat, NYL	Used with 30226 Temp probe nut	1

SBE 11plus Deck Unit

SBE P/N	Manufacturer P/N	Primary SBE Application	QTY
30142	Mach screw 6-32 x 3/8 PH SS	SBE 11plus: Secure fan	8

90149 Bottom Contact

SBE P/N	Manufacturer P/N	Primary SBE Application	QTY
30545	Mach screw, 10-24 x 1" FH TT	90149: Actuator securing screw	2
30547	Washer, #10 Flat, TT	90149: Used with 30545, Actuator hardware	2

SBE17plus SEARAM

SBE P/N	Manufacturer P/N	Primary SBE Application	QTY
30447	Bolt, 1/4-20 x 1-1/4" Hex TT	17plus: SEARAM Lifting Bail Padeye Hardware	2

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