

SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington 98005 USA Telephone: (425) 643-9866 Telex: 292915 SBEI UR Fax: (425) 643-9954 email: seabird@seabird.com

SBE P/N 50288/50288.1

DATE SYM REVISION RECORD AUTH DR	CHK
	CHK
12.03 A Added reference to AF24173 CB MJ	
06.03 B PN 231071 Usage revised DB MJ	
09.04 C Added AF24173 Anti-Foulant Cylinders DB MJ	
09.04 D AF24173 is Optional MJ KH	
09.06 E Update AF24173 Part Number MJ CB	CB

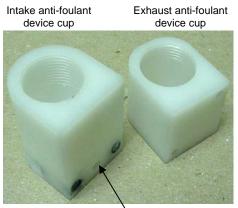
SBE19plus Moored Mode Conversion Kit w/ or w/o Anti-Foulant

Kit	Contents			
	SBE P/N	Description	Primary SBE Application	QTY
	231071	Anti-Foulant Device Cap, with Barb	For both ports, when pump is installed	2
	231505	Anti-Foulant Device Cap, No Barb	For exhaust port, when no pump is installed	1
	231863	SeacatPLUS TC-Duct/ Anti-Foulant Device Cup	For use when AF24173 Anti-Foulant Devices are installed	1
	231864	SeacatPLUS Exhaust/ Anti-Foulant Device Cup	For use when AF24173 Anti-Foulant Devices are installed	1
	231904	SeacatPLUS Temp Probe Retainer	For use when NO AF24173 Anti-Foulant Devices OR Pumps are installed	1
	30514	Machine Screw, 8-32 x ¹ / ₂ PH TI	To secure Temp Probe retainer to endcap	2
	801542*	AF24173 Anti-Foulant Device	Anti-Foulant cylinders installed in cup parts	1 pair

*optional item

The SBE 19*plus* is intended primarily for use as a profiling instrument, and does not come standard with anti-foulant device cups and caps. Some customers, finding that they are using the 19*plus* in moored mode on occasion, choose to install anti-foulant device cups and caps. This procedure addresses retrofitting a 19*plus* with anti-foulant device cups and caps.

Note: This procedure can also be used to replace existing anti-foulant device cups and caps on an SBE 16*plus*.



Hole for thermistor

Exhaust anti-foulant device cap (barbed) for pumped applications



Intake anti-foulant device cap for all applications and exhaust cap for non-pumped applications



Note:

• The larger diameter of the intake cap / exhaust cap for non-pumped applications helps maintain good flow through the conductivity cell and reduces growth of biological material. Do not use the barbed cap in its place.

SBE DRAWING: 67114B, imbedded photos	Sea-Bird Electronics Procedure	
	PROCEDURE NUMBER: 67114	
TITLE: SeacatPLUS Moored Mode Conversion Kit	TITLE: SBE PN 50288, SeacatPLUS Moored Mode Kit	
	REVISION: E	
<u>REV:</u>	EFFECTIVE DATE: 09/28/2006	
	CHECKED BY: PAGE 1 of 3	

SBE

SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington 98005 USA Telephone: (425) 643-9866 Telex: 292915 SBEI UR Fax: (425) 643-9954 email: seabird@seabird.com

- 1. On pumped applications, remove the Tygon tubing from the existing conductivity cell exhaust duct. When there is not a pump, an Anti-Foulant Dummy #231515 must be used or the kit shall not be used at all.
- 2. Remove the four Phillips-head screws attaching the conductivity cell guard to the housing and end cap. Remove the conductivity cell guard.
- 3. Exhaust -
 - A. On the conductivity cell guard, remove the two small screws attaching the exhaust duct to the guard.
 - B. Remove the existing exhaust duct and replace with the exhaust antifoulant device cup, reinstalling the two screws.
 - C. See the SBE 19*plus* or 16*plus* manual (as applicable) for details on handling and installing the AF24173 Anti-Foulant Device.
 - D. Install the anti-foulant device cap to secure the Anti-Foulant Device in the cup.
- 4. Intake -

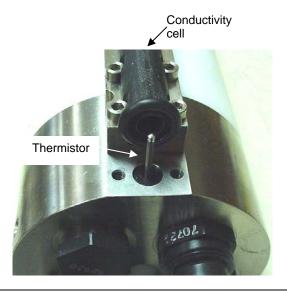
REV:

- A. Remove the two hex head screws attaching the existing intake duct to the end cap.
- B. Remove the existing intake duct, pulling it straight up to avoid damaging the thermistor.
- C. Check to ensure that the o-ring at the end of the conductivity cell is still in place.
- D. Place the intake anti-foulant device cup over the thermistor and reinstall the hex head screws.
- E. See the SBE 19*plus* or 16*plus* manual (as applicable) for details on handling and installing the AF24173 Anti-Foulant Device, or dummy.

O-ring (typical both ends

of conductivity cell)

F. Install the anti-foulant device cap to secure the Anti-Foulant Device in the cup.



<u>SBE DRAWING:</u> 67114B, imbedded photos

TITLE: SeacatPLUS Moored Mode Conversion Kit

Sea-Bird Electronics Procedure PROCEDURE NUMBER: 67114 TITLE: SBE PN 50288, SeacatPLUS Moored Mode Kit REVISION: E EFFECTIVE DATE: 09/28/2006





Exhaust anti-foulant device cup

Intake anti-foulant

device cup

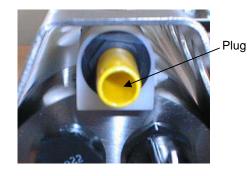






SEA-BIRD ELECTRONICS, INC. 1808 136th Place N.E., Bellevue, Washington 98005 USA Telephone: (425) 643-9866 Telex: 292915 SBEI UR Fax: (425) 643-9954 email: seabird@seabird.com

- 5. Check the exhaust end of the conductivity cell to ensure that the o-ring is still in place.
- 6. Reinstall the conductivity cell guard on the housing and end cap using the four Phillips-head screws.
- If not deploying immediately, install a protective plug: In the intake cap, and (for a non-pumped application) In the exhaust cap.



8. (for a pumped application) Reconnect the plumbing to the exhaust. Note that the barbed exhaust cap has a smaller diameter than the standard exhaust cap on the SBE 19plus (which does not accommodate Anti-Foulant Devices). When reconnecting the plumbing, place a 25 mm (1/2 inch) long piece of Tygon tubing, 9.5 mm (0.375 inch) ID, 1.59 mm (0.0625 inch) wall on the barbed cap. Then install the existing plumbing over the Tygon.

SBE DRAWING: 67114B, imbedded photos	Sea-Bird Electronics Procedure
<u>TITLE:</u> SeacatPLUS Moored Mode Conversion Kit <u>REV:</u>	PROCEDURE NUMBER: 67114 TITLE: SBE PN 50288, SeacatPLUS Moored Mode Kit REVISION: E EFFECTIVE DATE: 09/28/2006 CHECKED BY: PAGE 3 of 3