

SERVICE LETTER SL30 66-12070

1. **Service Letter No.:** SL30 66-12070
2. **Release Date:** 05/22/2017
3. **Reason for Change:** Addition of zinc anode to reduce incidents of corrosion in marine environments.
4. **Part/Assembly No.:** ECN 1140 Drawing 66-12070
5. **Float Model Affected:** 6650
6. **Disposition of Product in Field:** Optional (Recommended for marine environments)
7. **Approval:** All information provided is in accordance with approved data.
8. **Corrective Action:**
 - 35-80054 New anode, hull, teardrop shaped, 3.4 X 1.8X.6 - **NEW**.
 - 35-50054-1 *Aluminum* anode material in accordance with MIL-DTL-24799 for use in either marine or brackish water.
 - 35-80054-3 *Zinc* anode material in accordance with MIL-DTL-18001 and is intended for use in only marine water.
 - 35-80054-2 is reserved for the possibility of future use of *magnesium* anode for use only in fresh water.
 - 66-12070 Shows installation of anode assembly and harness and the connection to the airframe **NEW**.
 - 66-12071 Bracket Assembly, Anode attachment **NEW**-Anode sub assembly , designed to be fitted to a structure, such as a float, having varying thicknesses up to ¼". It contains 66-12071-1 and -2 options, for use of aluminum (-1) and Zinc (-3) anodic materials.
 - 66-12072 Stud Plate-one is welded in 66-12076 Stud Plate Assembly, and one is used in 66-12071 Bracket Assembly as backing and sealing plate. **NEW**.
 - 66-12073 Stud, Anode Attachment Assembly **NEW**-used in 66-12076 Stud Plate Assembly
 - 66-60031 Ring Terminal, Crimp Type, with Heat Shrinkable Sleeving and Adhesive Coating **NEW** –Used in 6612070 Anode Installation
 - 66-60032 Support Loop Carbon Fiber-used in 66-12070 Anode Installation to secure 66-60033 Anode Harness
 - 66-60033 Wire Harness, Hull Anode, Aerocet Model 6650 or 6750 Floats, **NEW**-used in 66-12070 Anode Installation
9. **Time Required:** 1.5 to 2 hours
10. **Payments:** None. Call (208) 448-0400 FOR Parts Department.

Parts Kit				
Item No.	Qty	Type	Part No.	Description
1	1	ASSY	66-12071-3	BRACKET ASSEMBLY, ANODE ATTACHMENT
2	5	PART	66-60032	SUPPORT LOOP, CARBON FIBER
3	1	ASSY	66-60033	WIRE HARNESSM, HULL ANODE, AEROCET MODEL 6650 OR 6750 FLOATS
4	1	HRDWR	AN525-10R9	WASHER HEAD SCREW
5	5	HRDWR	MS3367-4-9	CABLE TIE
6	1	HRDWR	MS21043-3	NUT, SELF-LOCKING REDUCED HEX
7	1	HRDWR	MS21083N3	NUT, SELF LOCKING, LOW HEIGHT
8	1	HRDWR	MS35338-43	SPLIT LOCK WASHER
9	1	HRDWR	MS35338-138	SPLIT LOCK WASHER
10	2	HRDWR	NAS1149C0363R	WASHER, FLAT STAINLESS
11	1	HRDWR	NAS1149D0363J	WASHER, FLAT
12	1	HRDWR	NAS1149F0363P	WASHER, FLAT
13	1	MISC	NA	AEROCET DRAWING 66-12070

Instructions:

Complete instructions are found in Drawing 66-12070. Drawing 66-12070 is included in the parts kit.

Please note that the anode is applied to the inboard lower chine of the LHS float. Optional installation to the RHS is mirror opposite.

Reference Notes:

1. All water penetration points are sealed with Sika-Flex 292 or equivalent marine grade urethane adhesive.
2. All parts in the anode subassembly, 66-12071, are 316L stainless for corrosion properties – except for the anodic material itself and the hardware, which is military specification CRES. These are used in the float itself, and expected to be subjected to long term moisture,. (Anode must be mostly submerged or wet, and electrically bonded to the protected structure in order to function properly.)
3. Electrical termination of the anode to the aircraft was designed to standard aircraft electrical bonding practices to aluminum structures. (Ref AC43.13.13-1, Table 11-16.)

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