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**SERVICE MANUAL**  
**AND**  
**INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**  
**FOR**  
**AEROCET "SKYPOD"**  
**CESSNA 180, 182 AND 185 FUEL/CARGO BELLY POD**  
**P/N SP1-100, SP1-200**


Aerocet, Inc.  
P.O. Box 2119  
265 Shannon Lane  
Priest River, Idaho 83856  
Phone: (208) 448-0400  
Fax: (208) 448-1644

This ICA must be followed when Aerocet Skypod is installed in accordance with Supplemental Type Certificate (STC) No. SA02179AK.

The information contained in this document supplements or supersedes the basic manuals only in those areas listed herein. For limitations, procedures, and performance information not contained in this manual, consult the basic aircraft ICA or maintenance manual.

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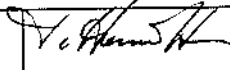
**REVISION HISTORY**


REV.	PAGES AFFECT.	DESCRIPTION	DATE	APPROVED
-	ALL	Original issue	5/16/01	
A		Added fuel pod data	6/25/02	
B		Added required fuel filter cleaning intervals and optional nylon door retention strap.	9/16/03	
C		Replaced pressure switch with flow switch and added optional pod attachment methods	8/19/04	
D		Added Cessna 182	7/10/07	



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E	ALL	<p>Reformatted document with Aerocet Logo and Header throughout.</p> <p>Changed title text; Is: Fuel/Cargo, Was: Cargo/Fuel.</p> <p>Added Aerocet contact information and Address to cover page.</p> <p>Added general statement concerning information contained in this document, limitations to, and STC No. to cover page.</p> <p>Added Intentionally left blank pages between Sections.</p> <p>Added Table of Contents, page 5 to document.</p> <p>Added 1.2, "Availability" page 7, to document.</p> <p>Added 1.4.3, Aerocet contact information, page 8, to document.</p> <p>Changed Cargo Pod weight Is: 36 lbs, Was: 43 lbs, page 7. Changed fuel pod weight Is: 50 lbs, Was: 55 lbs, page 7.</p> <p>Moved Inspection/Check sections 1.5 and 1.6 to Section 1.0 Skypod Maintenance Manual, was under Section 2.0 Airworthiness Limitations.</p> <p>Added text to Section 2.0 Airworthiness Limitations:  <i>This chapter contains airworthiness limitations based on §§23.571 for the Cargo Pod System only. Refer to the Inspection/Check Section of this document for recommended inspection.</i></p> <p>A) Time Limited Items: None</p> <p>B) Required Inspections Interval: No required structural maintenance or inspection tasks.</p> <p><u>Note:</u> See page 8 for manufacturers suggested inspection intervals.</p> <p>"Maximum cargo weight, 300 lbs"</p>	12/01/11	

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## 1.0 SKYPOD MAINTENANCE MANUAL

### 1.1 Description

The Aerocet "SkyPod", cargo and fuel/cargo belly pods are an enclosed fiberglass container with rectangular access doors on each side. The doors attach with camloc fasteners at five or six locations on each side depending on whether or not the hinge option is installed. The pod attaches to the underside of Cessna airplane models 180, 182 and 185 fuselages with structural screws and steel rivnuts around the perimeter flange. The cargo only pod weighs 36 pounds empty and the fuel/cargo pod 50 lbs. The pod C.G. is located at 65 and 60.75 inches respectively aft of datum when installed. The pod has a maximum payload capacity of 300 pounds.

### 1.2 Availability

One complete copy (paper or digital), of this manual shall be provided with each new Skypod. Additional copies and minor revisions shall be available via email, U.S.P.S. (mail), UPS or FedEx by request. Fees and delivery charges may apply.

Notification of any changes that require service for airworthiness shall be distributed to all applicable Aerocet owners on record with Aerocet, Inc. In such a case, copies of the applicable, revised portions of this manual shall be provided.

Aerocet, Inc. maintains record of purchasers and/or owners, collected at the time of purchase in order to comply with the above, as well as to maintain a high standard of service. If you have moved since your original purchase, have purchased a used product or otherwise have reason to believe that the contact information on file is incorrect, please provide the following information to Aerocet, Inc: (Aerocet contact information is on the front of this document.)

#### Cargo Pod Information:

Cargo Pod S/N \_\_\_\_\_

#### Aircraft Information:

Aircraft Make/Model \_\_\_\_\_

Aircraft Registration \_\_\_\_\_

Aircraft S/N \_\_\_\_\_

#### Owner Information: (as applicable)

Previous Owner \_\_\_\_\_


Previous Address \_\_\_\_\_

Present Owner \_\_\_\_\_

Present Address \_\_\_\_\_

Present Phone Number \_\_\_\_\_

Present Email Address \_\_\_\_\_

										
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### 1.3 Cleaning

Cleaning can be performed on all surfaces of the pod with a soap and water or mild detergent solution using a soft brush or rag. Do not use steel wool or abrasive pads as this may scratch and dull the finish on the pod. Also do not use harsh chemicals or solvents for cleaning as this may react with and damage the fiberglass structure.

### 1.4 Repairs

**1.4.1** Replacement hardware should be equivalent aviation grade only. For other replacement parts or if unable to locate correct replacement hardware, contact the manufacturer as listed in paragraph 1.4.3. See section 3.0 for parts list.

**1.4.2** If a damaged area on the pod is smaller than 6 inches square, the pod may be repaired with standard fiberglass repair techniques. The pod is constructed of "E" glass and polyester mat impregnated with isophthalic polyester resin. The outer surface is coated with an isophthalic gel-coat.

**1.4.3** If a damaged area on the pod is greater than 6 inches square or of any size and located on the radius between the pod shell and flange, the pod must be repaired in the original mold. If this is necessary, contact the manufacturer at:

Aerocet, Inc.  
 P.O. Box 2119  
 265 Shannon Lane  
 Priest River, Idaho 83856  
 Phone: (208) 448-0400  
 Fax: (208) 448-1644

## INSPECTION/CHECK

### 1.5 Annual and 100 hour Inspections or Noted.

#### All pod versions:

- a) Clean pod and check exterior gel coat for cracks or signs of damage, i.e. deformation, decay of fiberglass from exposure to exhaust gases, or delaminations.
- b) Inspect security of door fasteners. Replace as necessary.
- c) Inspect security of mounting screws.
  - If a rivnut is able to spin, replace with NAS1329S3K steel rivnut of appropriate length.
  - Replace AN525-1032R10 screws as needed.
- d) Replace any pieces of edge seal that are missing.

#### Fuel pod, SP1-200

- e) Inspect all plumbing components and tank for leaks. If leaks are found in plumbing, repair using standard procedures. If leaks are found in tank, repair as specified in Section 1.4 of this document.
- f) NOTE: Clean pod fuel filter every 100hr / annual or upon the usage of 20 pod fuel tanks, whichever occurs first.



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**1.6 Each 500 hr. TIS**

- a) Remove pod from aircraft.
- b) Inspect airframe for corrosion or signs of chafing.
- c) Replace any foam strip that is damaged or missing.
- d) Reinstall pod.

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## **2.0 AIRWORTHINESS LIMITATIONS**

*The Airworthiness Limitations section is FAA approved and specifies maintenance required under 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.*

*This chapter contains airworthiness limitations based on §§23.571 for the Cargo Pod System only. Refer to the Inspection/Check Section of this document for recommended inspection.*

- C) Time Limited Items:  
None
- D) Required Inspections Interval:  
No required structural maintenance or inspection tasks.


Note: See page 8 for manufacturers suggested inspection intervals.

"Maximum cargo weight, 300 lbs"

FAA Approval Signature \_\_\_\_\_

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### 3.0 PARTS LIST

The following items make up one (1) P/N SP1-100 SkyPod cargo pod.

Item	Description	Quantity	Part Number
1	Cargo Pod Shell	1	SP1-101 or 201
2	Left Side Door	1	SP-11
3	Right Side Door	1	SP-10
4	Camloc	12	2600-8W/9W
5	Camloc Receptacle	12	212-12/12D
6	Camloc Receptacle Rivet	24	MS20426AD3
7	Retaining Washer	12	2600SW2
8	5/16" Perimeter Weather Strip	A/R	63628
9	1.5 X .25 Foam Tape	A/R	02295
10	Short Steel Rivnuts	30	NAS1329S3K80
11	Long Steel Rivnuts	4	NAS1329S3K130
12	Attachment Screws	34	AN525-10
13	Lock Washer	34	MS35333-39
14	Flat Washer	34	AN960-10L
15	Nylon Door Strap (optional)	4	SP-14
16	Nylon Strap Screw	8	MS24693S51
17	Nylon Strap Nut	8	AN364-08
18	Nylon Strap Washer	A/R	AN970-3
19	Door Hinge (optional)	2	SP-13
20	Door Weather Strip	A/R	
21	Door Hinge Rivets	100	MS20470AD4-6
22	Door Hinge washer	100	NAS1149F N432P
23	Nut Plate	A/R	MS21059L3
24	Rivet	A/R	MS20426AD3
25	Nut	A/R	M21044N3

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Additional items for one (1) P/N SP1-200 SkyPod fuel/cargo pod.

Item	Description	Quantity	Part Number
26	Fuel Pump	1	40106 (12V) 40164 (24V)
27	Inspection Panel	2	SP1-206
28	Inspection Panel Seal	2	SP1-207
29	Quick Drain Sump Valve	1	CCA-1600
30	Fuel Filler Neck	1	E 323000
31	Vented Fuel Cap	1	703-1033
32	Plumbing Cover	1	SP1-208
33	"U" Fuel Line	1	SP1-202
34	Fuel Line	1	SP1-216
35	Short Fuel Line	1	SP1-204
36	Fuel Pickup Tube	1	SP1-205
37	Fuel Filter	1	230106
40	Flow Switch	1	SP1-217
41	90° Fuel Line	1	SP1-209
42	Flexible Fuel Line	1	SP1-210
43	Electrical Box	1	SP1-211

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