



***F. Atlee Dodge***  
**Aircraft Services, LLC.**

6672 Wes Way - Anchorage, AK 99518 - Phone: (907) 344-1755 - Fax: (907) 344-6720  
Email: [atleedodge@acsalaska.net](mailto:atleedodge@acsalaska.net) - Website: [www.fadodge.com](http://www.fadodge.com)

**INSTALLATION INSTRUCTIONS FOR:**

**EXTENDED BAGGAGE**

P/N: 2103

United States Of America  
Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

Number SA590AL

This Certificate issued to F. Atlee Dodge  
P.O. Box 190409  
Anchorage, AK 99519-0409

IS AUTHORIZED  
TO INSTALL STC  
ON A \_\_\_\_\_ MODEL  
/N  
AUTHORIZED BY F. ATLEE DODGE  
SIGNATURE  
(SIGNATURE MUST BE SIGNED IN GREEN INK  
AND HAVE RAISED SEAL)

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part \* of the \* Regulations.

Original Product Type Certificate Number: \* See attached FAA Approved Model List (AML) No. SA590AL, dated February 20, 2004, for a list of approved aircraft models and applicable airworthiness regulations.  
Make:  
Model:

Description of Type Design Change: Installation of an extended baggage compartment in accordance with PA-18 Extended Baggage Master Data List, Document Number SA590MDL, Revision A dated February 20, 2004, or Later FAA approved revision.

Refer to F. Atlee Dodge "INSTALLATION AND MAINTENANCE INSTRUCTIONS FOR AN EXTENDED BAGGAGE COMPARTMENT IN PA-18 SERIES AIRCRAFT", Document number SA590IM, Revision A, dated February 19, 2004, or later FAA approved revision for Instructions for Continued Airworthiness.

Limitations and Conditions: This design change can only be installed on airframes previously modified for gross weights of 1750 pounds or greater.

Compatibility of this design change with previously approved modifications must be determined by the installer.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: June 23, 1976

Date reissued: June 2, 2004

Date of issuance: July 2, 1976

Date amended: June 2, 2004



By direction of the Administrator

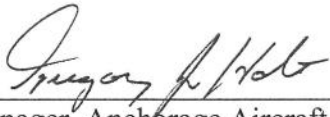
*Gregory J. Holt*  
(signature)

Gregory J. Holt  
Manager  
Anchorage Aircraft Certification Office

(Title)

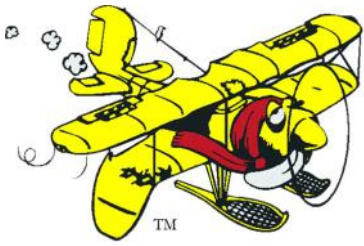
**FAA APPROVED MODEL LIST (AML) SA590AL**

AIRPLANE MAKE	AIRPLANE MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION
Piper	PA-18, PA-18S, PA-18A	1A2	CAR 3
Piper	PA-18 "105" (Special), PA-18S "105 (Special)	1A2	CAR 3
Piper	PA-18 "125" (Army L-21A), PA- 18S "125", PA-18AS "125"	1A2	CAR 3
Piper	PA-18 "135" (Army L-21B), PA- 18A "135", PA-18S "135", PA- 18AS "135"	1A2	CAR 3
Piper	PA-18 "150", PA-18A "150", PA- 18S "150", PA-18AS "150"	1A2	CAR 3

FAA APPROVED:   
 Manager, Anchorage Aircraft Certification Office  
 Federal Aviation Administration  
 Anchorage, Alaska

Date: 6-2-4

Date: 2/20/04  
 Revision: Original



Document No: SA5901IM

Revision: A

Date: 2/19/04

Page: 1 of 2

## **F. ATLEE DODGE EXTENDED BAGGAGE KIT**

### **Description:**

The F. Atlee Dodge Extended Baggage Compartment is located aft of the existing baggage area on all eligible models of PA-18 aircraft. This baggage compartment is approximately fourteen inches high, fifteen inches wide and thirty-five inches deep. The compartment volume is approximately 4.25 cubic feet and is rated for twenty pounds of baggage. The baggage is secured in the extended compartment by 1/4 inch nylon cord that is attached to four 3/16 inch eye-bolts.

### **Model Eligibility:**

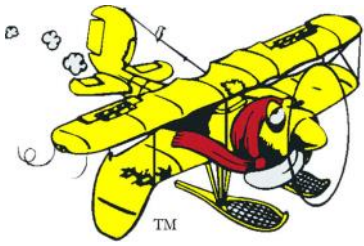
The installation of this extended baggage kit is limited to aircraft with fuselage structure equivalent to the PA-18 "150" at longitudinal station 99.0 (station 123.0 as measured from firewall). Refer to the enclosed "INSTALLATION INSTRUCTIONS" drawing number 2103, dated 6/23/76 (page A-2). The aircraft structure in this area must have the additional 3/8 inch diameter cross tube and diagonal support tubes installed at longitudinal station 99.0. Aircraft with out this supporting structure, must be modified and approved prior to the installation of the F. Atlee Dodge Extended Baggage Kit. This STC does not cover the aforementioned airframe modifications. A separate FAA approval is required for the installation of the cross tube and diagonal support tubes.

### **Instructions for Continued Airworthiness:**

Refer to Advisory Circular 43.13-1B/2B, "Acceptable Methods, Techniques and Practices - Aircraft Inspection and Repair", Chapter 4, Section 4 "Metal Repair Procedures" for guidance on continued airworthiness of this modification.

This baggage compartment shall be inspected at every 100-Hour and Annual Inspection in accordance with 14 CFR Part 43, Appendix D, to ensure continued airworthiness.

A Pop Rivet Gun maybe required for maintenance and assembly.



## ***F. Atlee Dodge Aircraft Services, LLC.***

6672 Wes Way - Anchorage, AK 99518 - Phone: (907) 344-1755 - Fax: (907) 344-6720  
Email: atleedodge@acsalaska.net - Website: www.fadodge.com



Document No: SA5901M

Revision: A

Date: 2/19/04

Page: 2 of 2

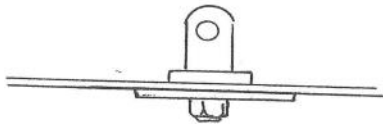
### **F. ATLEE DODGE EXTENDED BAGGAGE KIT**

**NOTE: Some kits are shipped disassembled.  
Refer to drawing attachment A-1 for assembly instructions.**

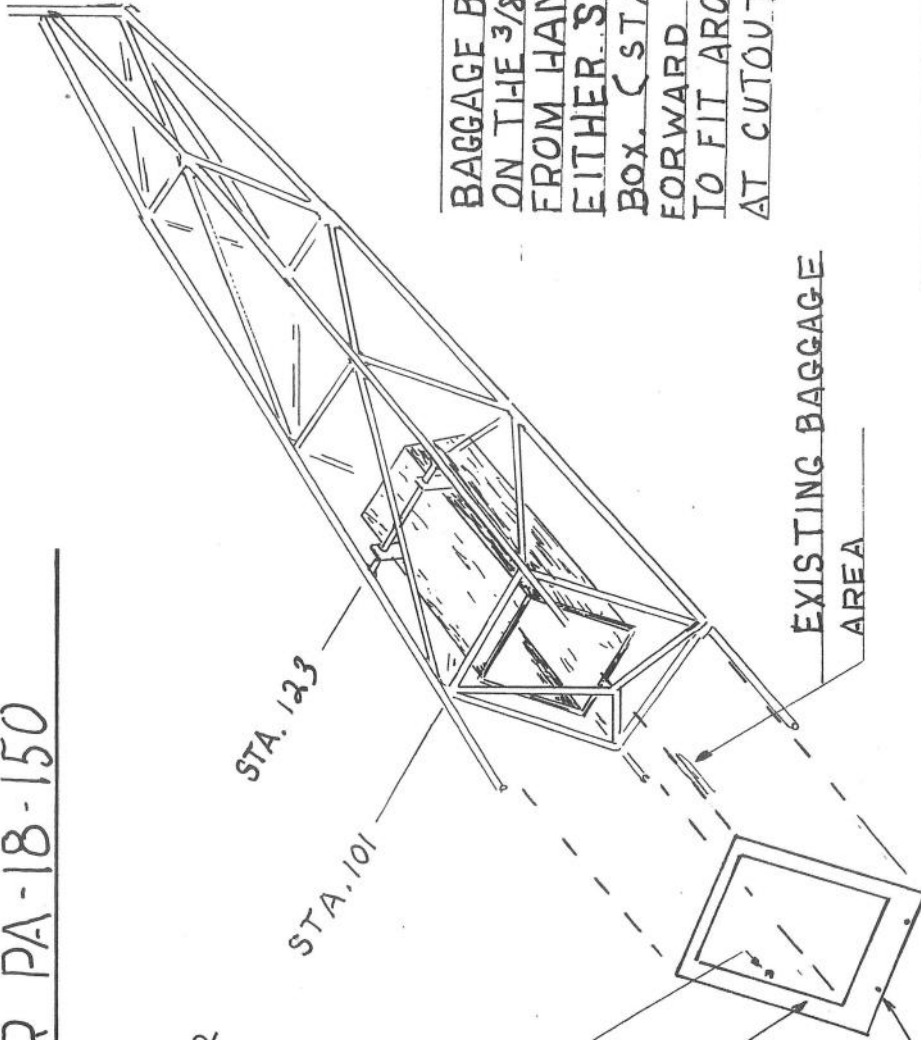
#### **Installation Instructions:**

1. Remove the panel in the aft end of the baggage compartment, Piper P/N 14221-03 or P/N 13471-03.
2. Remove the new panel from the extended baggage where it was temporarily installed.
3. Install six (6) each tinnerman nuts used for securing the panel, see item 7. It is required that two (2) additional #10 screws be added to the lower section of the panel.
4. Install the extended baggage assembly into aft section of the fuselage until the forward end of the baggage assembly is just aft of the end of the original baggage area. Push the slotted hangers over the 3/8 inch cross member and center between the upper longerons.
5. Position cutout at the end of the baggage over the diagonal tube.
6. Install the new panel and check the fit. It may be necessary to trim the outer edge of the panel to obtain a proper fit. Install the six (6) #10 PK screws.
7. Install 20 each, SB 4-2 rivets through the panel and extended baggage.
8. Install 1/4 inch nylon cord for tie downs.
9. Complete the aircraft weight and balance calculations. Add +5 lbs. at station 86.0 (110 inches aft of the aircraft firewall). NOTE: The maximum baggage compartment weight may not exceed 20 lbs. When loading this baggage compartment, refer to drawing number 2103, page A-2 for baggage compartment weight and balance station locations.
10. Complete an FAA Form 337.

AIRCRAFT AFFECTED  
PIPER PA-18-150



AN 42B EYE BOLT  
AN 970-10 WASHER  
AN 365-1032 NUT



EYE BOLT AN 42B  
ONE EACH SIDE

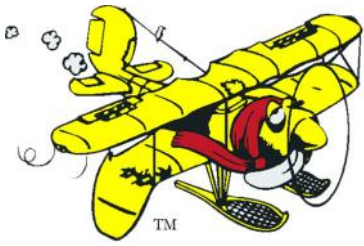
REPLACES AFT  
PANEL PIPER  
P/N 14221-03

ADD 2 EA.  
SB 4-2 EVENLY  
SPACED

BAGGAGE BOX TO HANG  
ON THE 3/8 CROSS TUBE  
FROM HANGARS ON  
EITHER SIDE OF BAGGAGE  
BOX. (STA. 123)  
FORWARD END OF BOX  
TO FIT AROUND TUBING  
AT CUTOUTS IN BOX.

EXISTING BAGGAGE  
AREA

INSTALLATION INSTRUCTIONS TO  
INSTALL THE EXTENDED BAGGAGE IN PA-18  
F. ATLEE DODGE  
PO BOX 190409  
ANCHORAGE, AK.  
99519  
DWG. No. 2103  
CHG  
SHEET 1 OF 2



# F. Atlee Dodge Aircraft Services, LLC.



6672 Wes Way - Anchorage, AK 99518 - Phone: (907) 344-1755 - Fax: (907) 344-6720  
Email: atleedodge@acsalaska.net - Website: www.fadodge.com

Date: 7/15/1985  
Drawing No.: 2103  
Sheet: 2 of 2  
Revision: None

## F. ATLEE DODGE EXTENDED BAGGAGE KIT

### Assembly Instructions:

1. All panels have been pre-drilled and are ready for assembly.
2. Tools required are a pop rivet gun that will pull 1/8 and 5/32 rivets. There are approximately 125 of 1/8 rivets and 6 of 5/32 rivets included in your installation kit.
3. All figures are on the outside.
4. It will be impossible to assemble incorrectly.
5. Do not install front panel at this time.
6. Refer to installation to complete the installation in the aircraft.
7. Install sound deadner strip. (9 each)

