AERO TWIN, INC.
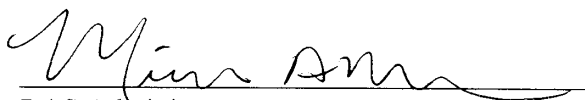
Aero Twin, Inc. Remote Nose Gear Strut Servicing Port
No. ATRS-100 For Cessna Model 206 & 207 Aircraft

INSTALLATION AND MAINTENANCE INSTRUCTIONS
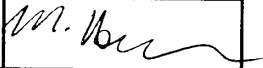
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FAA/DAS Approved: _____

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Anchorage, Alaska

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Table of Contents

Read all instructions prior to beginning installation.

Introduction:

The Aero Twin Inc. Remote Nose Gear Strut Servicing Port is intended to provide easier access for servicing the nose gear strut on Cessna 206 & 207 aircraft. The new port consists of an aluminum block that is mounted to the right side of the nose gear tunnel, with a hose connecting this block to the original port at the top of the nose gear strut.

Applicability:

The Remote Nose Gear Strut Servicing Port is applicable to all Cessna 206 & 207 series aircraft. The 206 series aircraft were produced with two sizes of valves in the top of the nose gear strut; Aero Twin Inc.'s kit provides fittings for each. Suitability can be determined by aircraft serial number.

Kit Parts List:

Kit No. ATRS-100:

Figure 2 Item Number	Part Number	Description	Qty
1	ATRS-101	Mounting Bracket	1
2	AN816-4D	Nipple	2
3	S1827-1	Valve	1
4	MS20813-1	Valve Cap	1
5	AN3-7A	Bolt	2
6	MS21044N3	Lock Nut	2
7	AN960-10	Washer	4
8	ATRS-102	Backing Plate	1
9	---	Gear Tunnel Skin	---
10	AE4036E0132-135	Hose Assembly	1
11	PA050354	Adapter	1
12	AN901-5A	Aluminum Washer	1

Aircraft Serial Number	Configuration
S/N 206-0001 thru 206-0275	**A**
S/N U206-0276 thru U206-1371	**A**
S/N P206-001 thru P206-0600	**A**
S/N U206-1372 and on	**B**
S/N P206-0601 and on	**B**
All Cessna 207 models	**B**

Aircraft listed above with serial numbers falling in configuration **A** use item numbers 11 and 12 of the Kit Parts List in the top of the nose gear strut, whereas aircraft in configuration **B** use item number 2. See the Setup and Installation instructions below for more details.

Setup and Installation:

1. Deflate nose gear strut per procedures in aircraft maintenance manual.

2. Remove Cessna Extension Assembly Valve (Gooseneck), P/N 1243072-1, per aircraft maintenance manual, if installed.

3. **Configuration A**
    Remove Cessna nose gear strut servicing valve (P/N 0543036-1) and replace with a PA050354 fitting and an AN901-5A washer.

    Configuration B
    Remove Cessna nose gear strut servicing valve (P/N S1827-1) from top of strut and replace with an AN816-4D fitting.

4. Find correct installation location for P/N ATRS-100 on right side of nose gear tunnel, see Fig 1. This indicated location can vary slightly to ensure adequate fits and clearances.
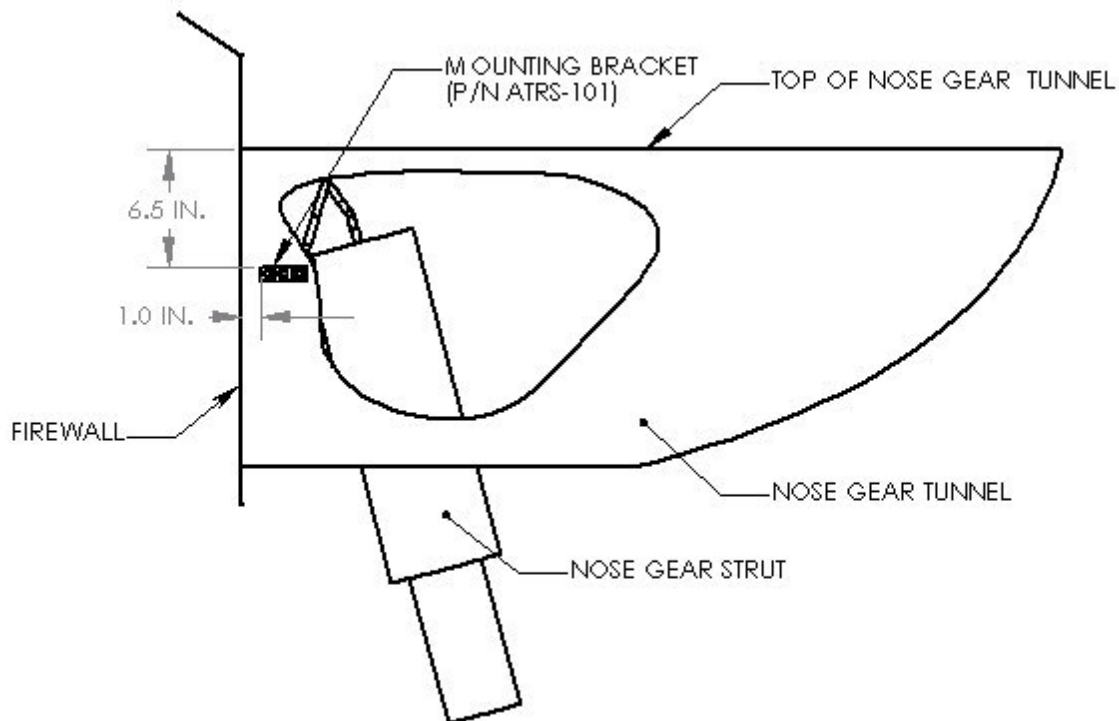

Fig. 1 Installation Location of Mounting Bracket

5. Use the backing plate, P/N ATRS-102, to mark location of bolt and fitting holes on nose gear box.

6.   Drill bolt holes to 0.189 inch diameter with a #12 drill bit (outer two holes).

7.   Drill fitting hole to 0.563 inch diameter with a 9/16" drill bit (center hole).

8.   Install kit components as shown in Fig 2, at locations shown in Fig. 1.
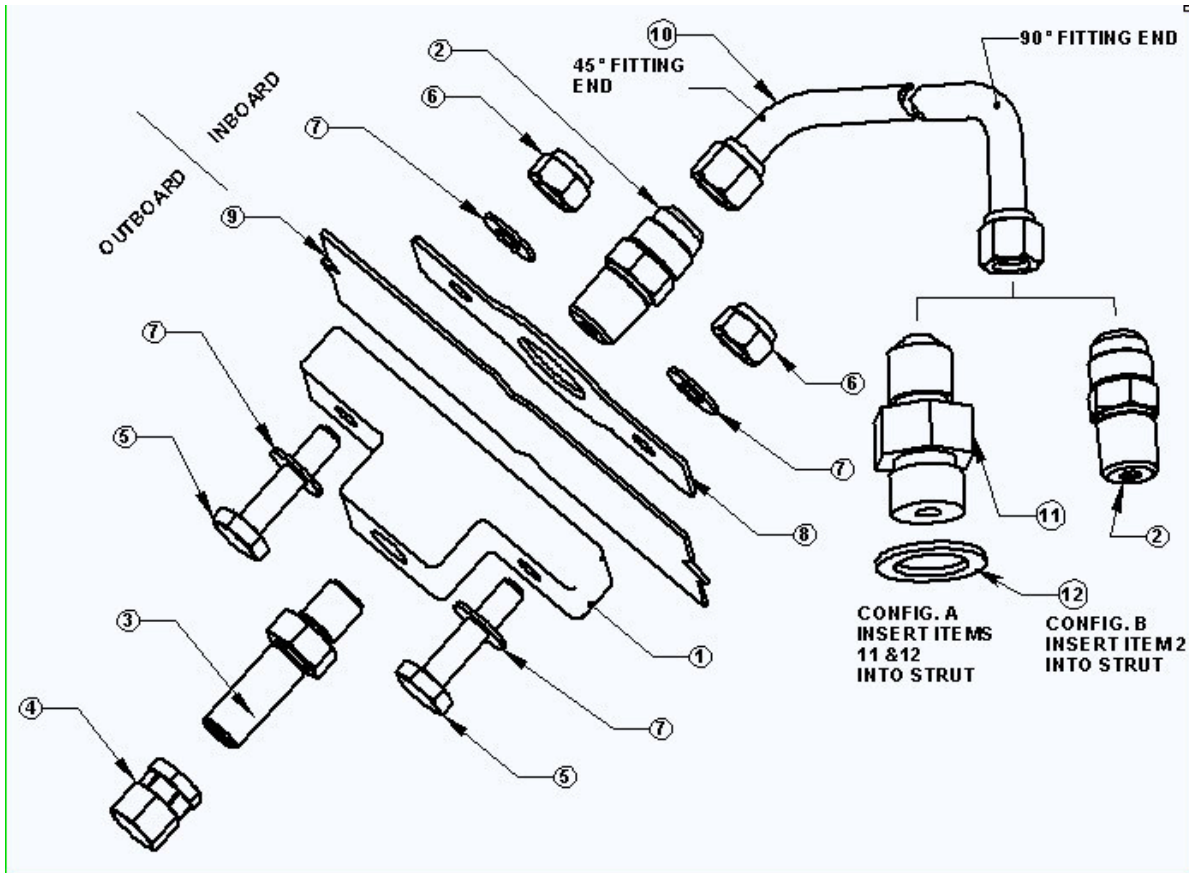

Fig. 2 Component Assembly of ATRS-100

9.   Service strut per procedures in aircraft maintenance manual, using the new remote
          servicing port. Verify that there are no leaks.

10.   Complete FAA Form 337 or equivalent to indicate that this kit has been installed in
          accordance with this STC.

Note: Use thread sealant on pipe threads, do not over tighten flare fittings.

Instructions for Continued Airworthiness

14 CFR 43, Appendix D is adequate for continued airworthiness of this installation.

END