INSTALLATION INSTRUCTIONS

Aircraft: PA-18 Series

TITANIUM TAILSPRING

Release Number: A Release Date: 4/10/2023

THIS MANUAL INCLUDES INFORMATION PROPRIETY TO AIRFRAMES ALASKA/ABI LLC. AND SHALL NOT BE USED TO MANUFACTURE OR REPRODUCE ANY PART OR ASSEMBLY WITHOUT THE PRIOR WRITTERN PERMISSION OF ABI LLC. This Page Intentionally Left Blank

Record of Revisions

Rev	Date	Page	Author	Explanation of Revisions
Level				
IR	11/2/2022	-	Jon Earl	Initial Release
А	4/10/2023	-	Jon Earl	Updated removal and
				installation procedures.

Distribution of Changes

A current copy of this manual will be maintained on the Airframes Alaska/ABI, LLC website.

Installation Instructions

Tail Spring Removal

- 1. Chock or set a parking brake so that the main landing gear wheels to the aircraft may not roll.
- 2. Lift the tail of the aircraft and place a padded sawhorse just in front of the most forward tail spring attach bolt.
- 3. Remove the two steering springs that connect the rudder arm to the tailwheel steering arm.
- 4. Remove the three bolts that attach the tail spring/tailwheel assembly to the bottom of the tail.
- Remove the tail wheel assembly from the tail spring. There should be 1 or 2 bolts holding the tail wheel assembly to the tail spring.

Titanium Tail Spring Installation

- 1. Attach the titanium tail spring to the removed tail wheel assembly. Shorter bolt(s) may need to be used because the titanium tail spring is thinner than a traditional steel tail spring. Use a new locknut and make sure there are at least 2 threads visible above the locknut. Torque AN7 bolt(s) to 40 ft/lbs.
- 2. Attach the titanium tail spring and the connected tailwheel assembly to the tail of the aircraft. Shorter bolt(s) may need to be used because the titanium tail spring is thinner than a traditional steel tail spring. There are a total of 3 bolts. Use a new locknut and make sure there are at least 2 threads visible above the locknut. Torque the AN7 bolt to 40 ft/lbs. Torque the AN4 bolts to 5 ft/lbs.
- 3. Reattach the two steering springs that connect the rudder arm to the tailwheel steering arm.
- 4. Lift the tail of the aircraft and remove the sawhorse so that the tailwheel can now rest on the ground.
- 5. Remove wheel chocks or parking brake.

Trouble Shooting

To be updated with common Problems and Corrections if necessary, when and if they arise when more assemblies are installed in the field.

Engineering Changes and Amendments

If a change or amendment is made to the design, components, or procedures contained within this manual or STC that affect airworthiness of the installation; Airframes Alaska/ABI, LLC. will notify the recorded owners in writing of the affected element(s) and provide the necessary data for compliance.

