



Piper Aircraft, Inc.
2926 Piper Drive
Vero Beach, FL, U.S.A. 32960

SERVICE NO. 1229 LETTER

Date: January 3, 2019

(S)

MAINTENANCE ALERT

SUBJECT:

CONTROL QUADRANT INSPECTION

MODELS AFFECTED:

PA-28-140 Cherokee
PA-28-151/161 Warrior/II/III
PA-28-161 Cadet
PA-28-180 Cherokee Archer
PA-28-181 Archer II/III
PA-28-181 Archer III
PA-28-235 Cherokee 235/Charger/Pathfinder
PA-28-236 Dakota
PA-28-201T Turbo Dakota
PA-28R-180/200 Arrow/Arrow II
PA-28R-201 Arrow III
PA-28R-201T Turbo Arrow III
PA-28RT-201 Arrow IV

SERIAL NUMBERS AFFECTED:

All
All
All
All
All
All
All
All
All
All
All
All
All
All
All

COMPLIANCE TIME:

The instructions in this maintenance alert should be followed if the quadrant friction adjusting handle is difficult to operate, or whenever the control quadrant is serviced.

APPROVAL:

The engineering aspects of this service document have been shown to comply with the applicable Federal Aviation Regulations and are FAA approved.

PURPOSE:

The control quadrant in the affected aircraft contains manually operated levers that adjust the engine's throttle, mixture, and, on some models, propeller. Adjusting the friction required to operate these levers is accomplished by the rotation of the friction adjusting handle. This service letter describes the correct orientation of components within the control quadrant to allow for the proper operation of the friction adjusting handle.

INSTRUCTIONS:

1. Locate the control quadrant and remove its cover. Retain the cover and associated hardware.
2. Verify that the friction adjusting handle is on the right hand side. If not, then the control quadrant must be reassembled so that the pivot bolt head and friction adjusting handle are both on the right hand side.

NOTE: Each applicable Piper Airplane Parts Catalog (IPC) contains a detailed view of the control quadrant assembly.

3. The remaining instructions do not apply to affected aircraft with Quadrant Friction Adjusting Handle Assembly, Piper part number (P/N) 24358-000, installed. The specified aircraft were among those built in 1968 or earlier. (This assembly consists of an aluminum handle and a chrome plated steel clip.)

- For only these aircraft, proceed to Step 9.
- For all other affected aircraft, proceed to Step 4.

4. Inspect the bolt that the levers pivot around and locate the stack of five (5) washers at the end of the bolt.
5. Compare the washer stack to Figure 1. There should be two (2) curved washers and three (3) flat washers. The configuration of these washers (their order, and the direction of the curved washers) must match the configuration shown in Figure 1.

NOTE: Depending upon the specific aircraft model, there may be additional components on the bolt, such as additional washers or a propeller lever, compared to what is shown in Figure 1. However, all affected aircraft will have the same basic configuration of five (5) washers in the assembly. Refer to the applicable Piper IPC for additional clarification.

6. If the stack of washers does not match Figure 1:

- Remove the cotter pin and nut from the end of the bolt. Retain the nut; discard the cotter pin.
- Rearrange the washer configuration to conform to Figure 1.
- As required to attain the proper, spring-loaded operation of the adjusting handle, add more flat washers on either side of this five (5) washer combination.

NOTE: The proper operational scope of the friction adjusting handle ranges from little to no friction to high friction that results in "locking."

- Reinstall the washers and nut; install a new cotter pin at the end of the bolt. (Refer to Figure 1.)

7. Verify that the adjusting handle, and the throttle, mixture and propeller (if installed) levers all function correctly.
8. Reinstall the control quadrant cover using the existing hardware.
9. Make a logbook entry documenting compliance with this service letter.

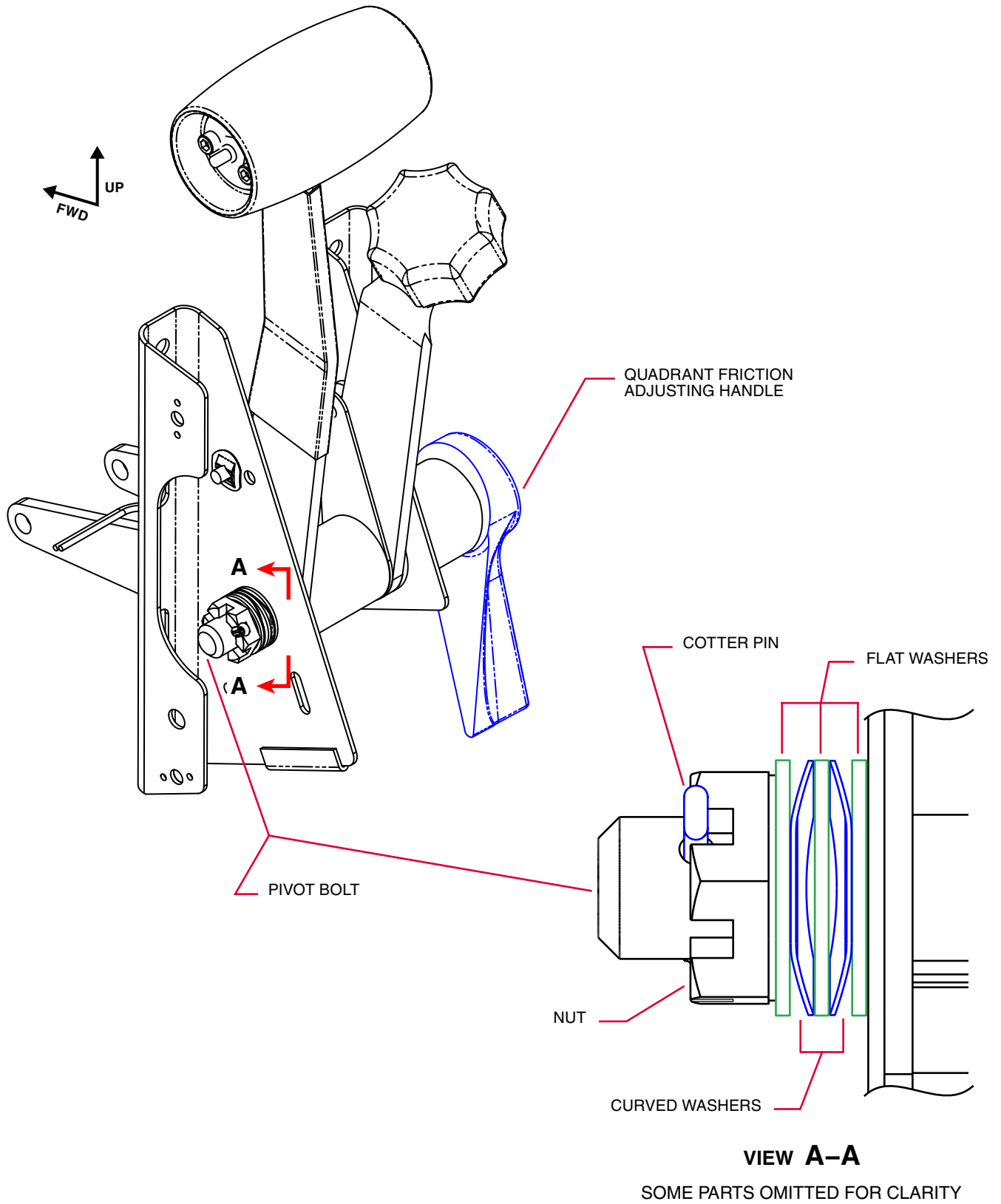


Figure 1
Control Quadrant Assembly With Cover Removed

MATERIAL REQUIRED: On condition, per aircraft:

Quantity	Part Name	Standard P/N	Piper P/N
A/R	Washer	NAS1149F0532P	690-619
2	Washer	3502-18-04	408-815
1	Cotter Pin	MS24665-132	424-051

AVAILABILITY OF PARTS: Your Piper Approved Service Center

EFFECTIVITY DATE: This service letter is effective upon receipt.

SUMMARY: Applicable factory participation is limited to new aircraft in warranty at the time of compliance. Factory participation will remain in effect for a period of time not to exceed 180 days from the date of this service letter.

Please contact your Piper Approved Service Center to make arrangements for compliance with this service letter in accordance with the compliance time indicated.

NOTE: Please notify the factory of any address/ownership corrections. Changes should include aircraft model, serial number, and current owner's name and address.

Corrections and/or changes should be directed to:

PIPER AIRCRAFT, INC.
 Att'n: Customer Service
 2926 Piper Drive
 Vero Beach, FL 32960

or:

CustomerService@piper.com

Please include in subject line: "Aircraft ownership update"