



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

# SERVICE NO. 1218 LETTER

Date: July 13, 2017

(S)(M)

**SUBJECT:**

**CREW SEAT CONTROL CABLE MODIFICATION**

**MODELS AFFECTED:**

PA-28-161 Warrior II-III  
PA-28-161 Cadet  
PA-28-181 Archer II-III  
PA-28-236 Dakota  
PA-28R-201 Arrow III  
PA-28R-201T Turbo Arrow III  
PA-32-301 Saratoga  
PA-32-301FT Piper 6X  
PA-32-301XTC Piper 6XT  
PA-32R-301 Saratoga SP  
  
PA-32R-301 Saratoga II HP  
PA-32R-301T Turbo Saratoga SP  
PA-32R-301T Saratoga II TC  
PA-34-220T Seneca III  
PA-34-220T Seneca IV  
PA-34-220T Seneca V  
PA-44-180 Seminole

**SERIAL NUMBERS AFFECTED:**

28-8616001 through 2842419  
2841001 through 2841365  
28-8690001 through 2843823  
28-8611001 through 2811050  
2837001 through 2844165  
2803001 through 2803015  
32-8606001 through 3206098  
3232001 through 3232074  
3255001 through 3255051  
32R-8613001 through 3213028,  
3213030 through 3213041  
3213029, 3213042 through 3246244  
32R-8629001 through 3229003  
3257001 through 3257493  
34-8633001 through 3448035  
3448038 through 3447029  
3449001 through 3449506  
4495001 through 4496390

**COMPLIANCE TIME:**

Owner/operator discretion

**APPROVAL:**

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

**PURPOSE:**

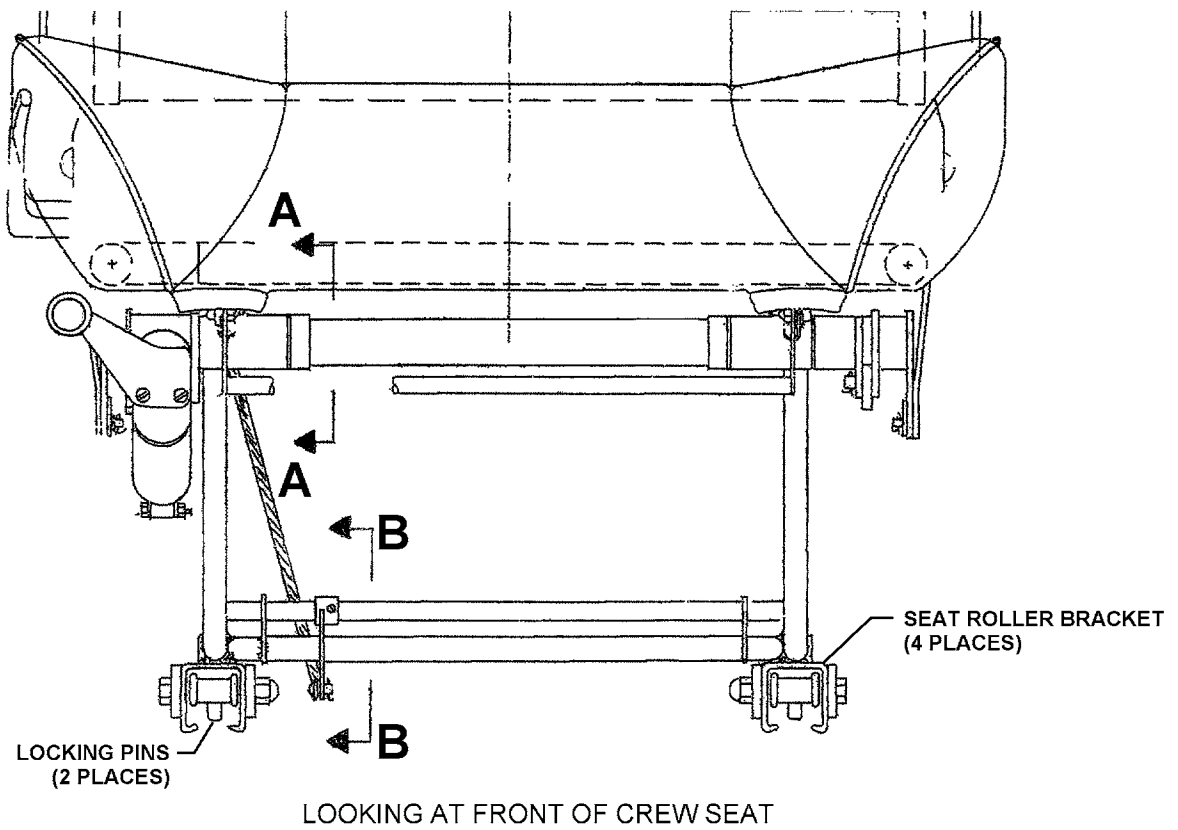
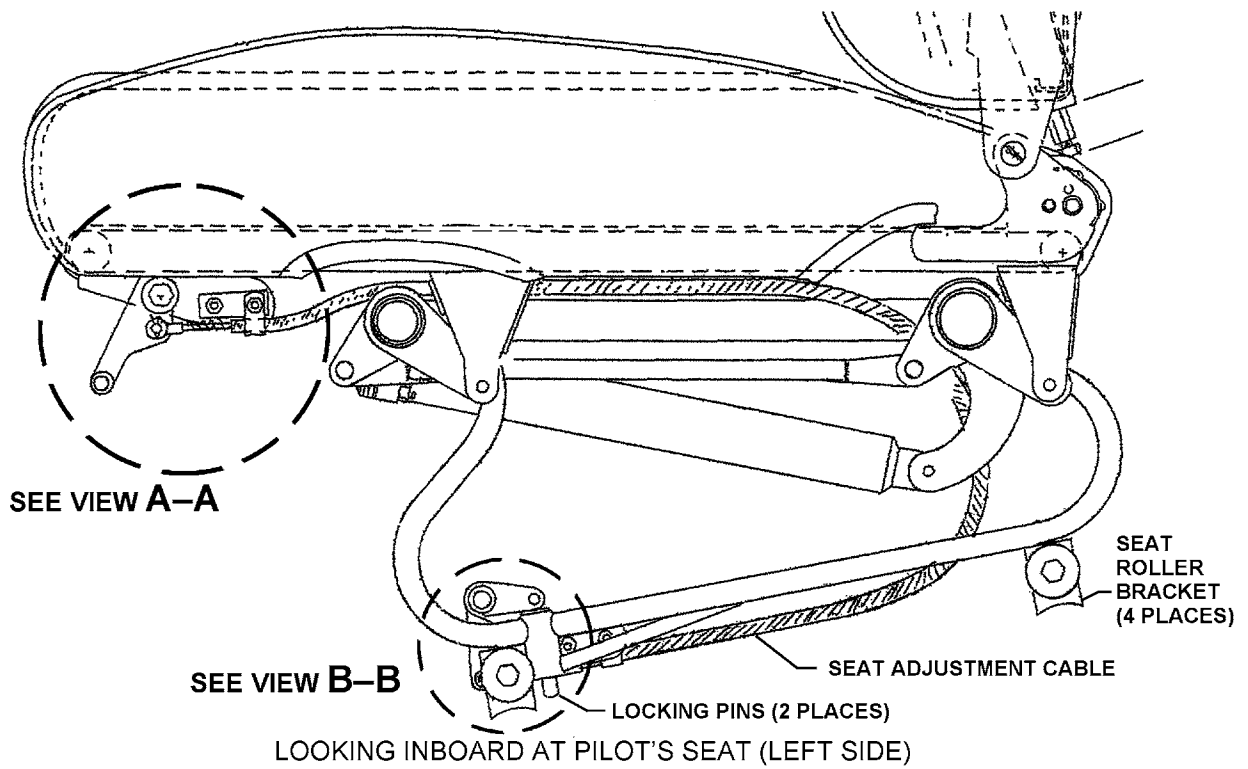
In 2015, a production design change was incorporated into current production airplanes to extend the life of the cable controlling the fore and aft movement of the crew seats. This service letter makes the design change available for the affected aircraft.

**INSTRUCTIONS:**

This modification is recommended at the next crew seat adjustment control cable replacement.

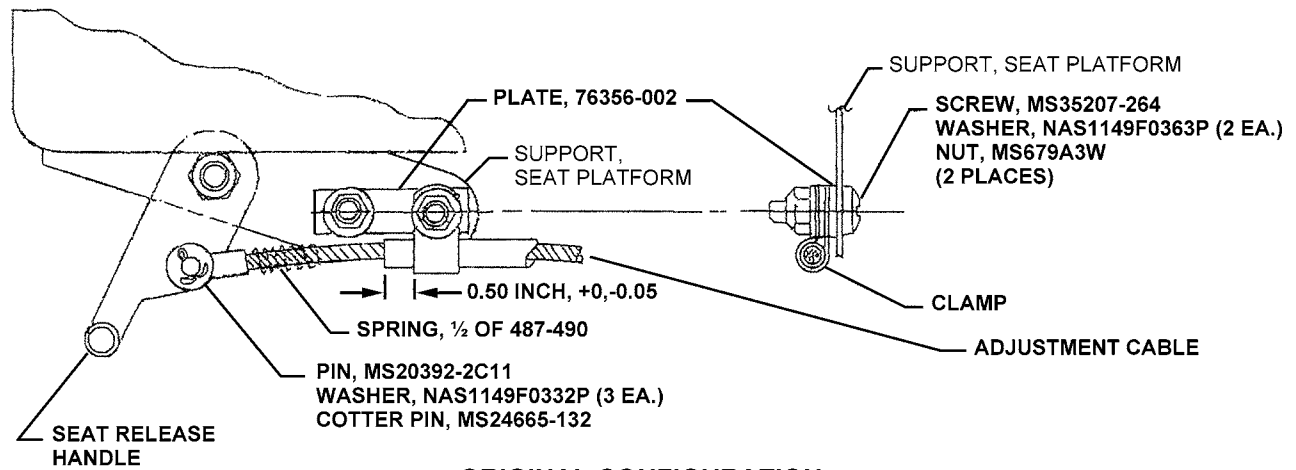
1. The modification consists of replacing the existing seat platform support plate (P/N 76356-002) with a longer version (P/N 76356-003) which limits aft travel of the seat release handle assembly. If the seat release handle assembly is allowed to freely travel aft it can cause the adjustment cable to kink which contributes to unnecessary wear on the cable and shortened service life. Some of the associated hardware is also replaced.
2. The following steps address replacing the cable in one seat (refer to Figure 1):
  - a. Remove and discard the old adjustment cable.
  - b. Install the new adjustment cable as follows:
    - 1) Cut the new spring (Piper P/N 487-490) in half.
    - 2) Install a half of the spring onto the upper end of the new adjustment cable: Rotate the cut end of the half spring onto the cable, and continue to rotate the half spring until it is on the cable as shown in View A–A.

**NOTE:** The upper end of the adjustment cable terminates in a swaged ball and clevis fitting. The lower end of the cable terminates in a swaged eye fitting.
    - 3) Route the cable as shown in Figure 1. Take care to ensure the upper and lower ends are correctly positioned.
    - 4) At the bottom right side of the seat base assembly, capture the cable with the P-clamps and loosely install the P-clamps to the seat bottom base assembly with screws, washers, and nuts.
    - 5) Position the cable housing end as shown in View B–B and secure in place by tightening nuts evenly at the P-clamps.
    - 6) Connect the cable to the seat release arm by installing the pin, washers, and cotter pin.
    - 7) At the upper right side of the seat base assembly, capture the cable with the P-clamps and loosely install the new plate (P/N 76356-003) and P-clamps to the seat platform support with screws, washers, and nuts.
    - 8) Position the cable housing end as shown in View A–A and secure in place by tightening nuts evenly at the P-clamps.
    - 9) Connect the cable to the seat release handle by installing the pin, washers, and cotter pin.
    - 10) Observe the fore and aft locking pins while pulling and releasing the seat release handle. Ensure the pins retract and extend, respectively.
  - c. Pull the seat release handle and slide the seat aft to the desired position.
  - d. Release the seat release handle and ensure the seat locking pins engage the seat track.
3. Make a logbook entry documenting installation of this modification.

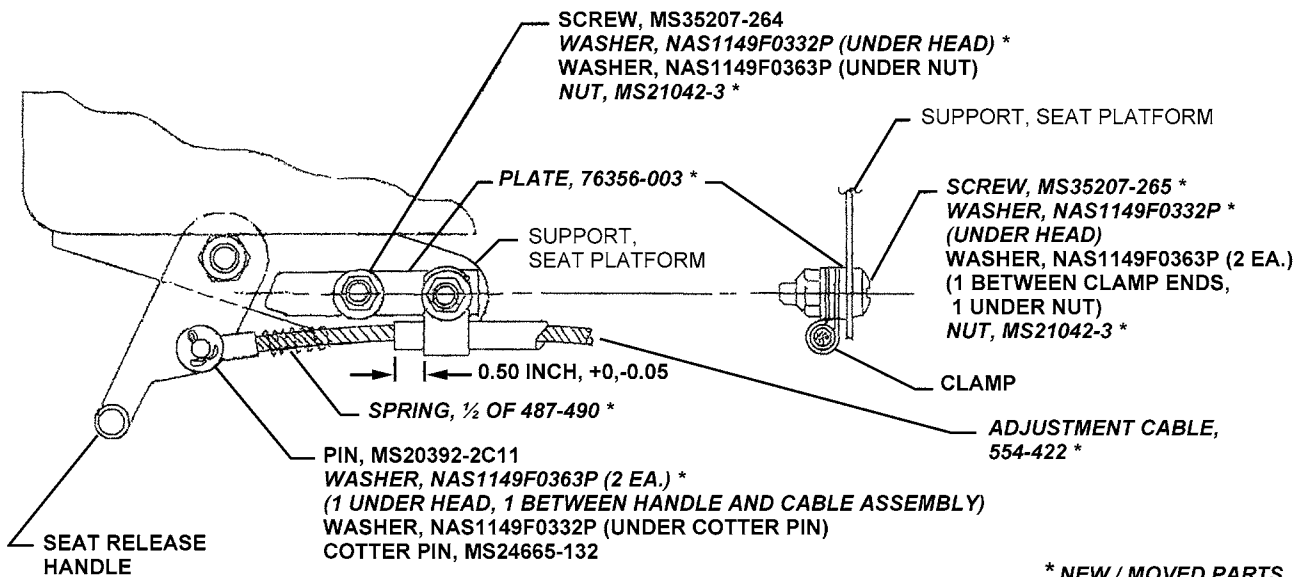


**Figure 1, Sheet 1 of 2**  
Crew Seat Adjustment Cable Installation

VIEW A-A



ORIGINAL CONFIGURATION



\* NEW / MOVED PARTS

AFTER MODIFICATION

VIEW B-B

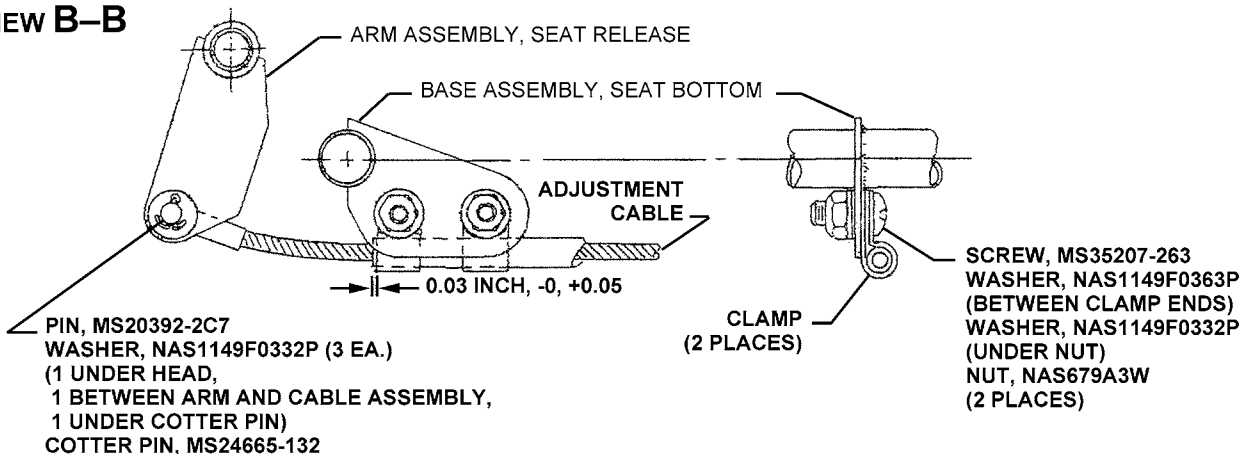


Figure 1, Sheet 2 of 2  
Crew Seat Adjustment Cable Installation

**MATERIAL REQUIRED:**

Per seat to be modified:

- One (1) each, Seat Adjustment Cable, Piper P/N 554-422
- One (1) each, Spring, Piper P/N 487-490
- One (1) each, Screw (MS35207-265), Piper P/N 411-534
- Two (2) each, Nut (MS21042-3), Piper P/N 404-526
- One (1) each, Washer (NAS1149F0363P), Piper P/N 690-612
- Additional hardware, as required, upon condition

**AVAILABILITY OF PARTS:**

Your Piper Approved Service Center

**EFFECTIVITY DATE:**

This service letter is effective upon receipt.

**SUMMARY:**

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.  
Attn: Customer Service  
2926 Piper Drive  
Vero Beach, FL 32960