



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

SERVICE NO. 1218A LETTER

Date: August 8, 2017

(S)(M)

Service Letter (SL) 1218A supersedes SL 1218 in its entirety. Aircraft that were previously made compliant with SL 1218 are in compliance with SL 1218A.

SUBJECT:

CREW SEAT CONTROL CABLE MODIFICATION

REASON FOR REVISION:

SL 1218A updates the Material Required.

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.

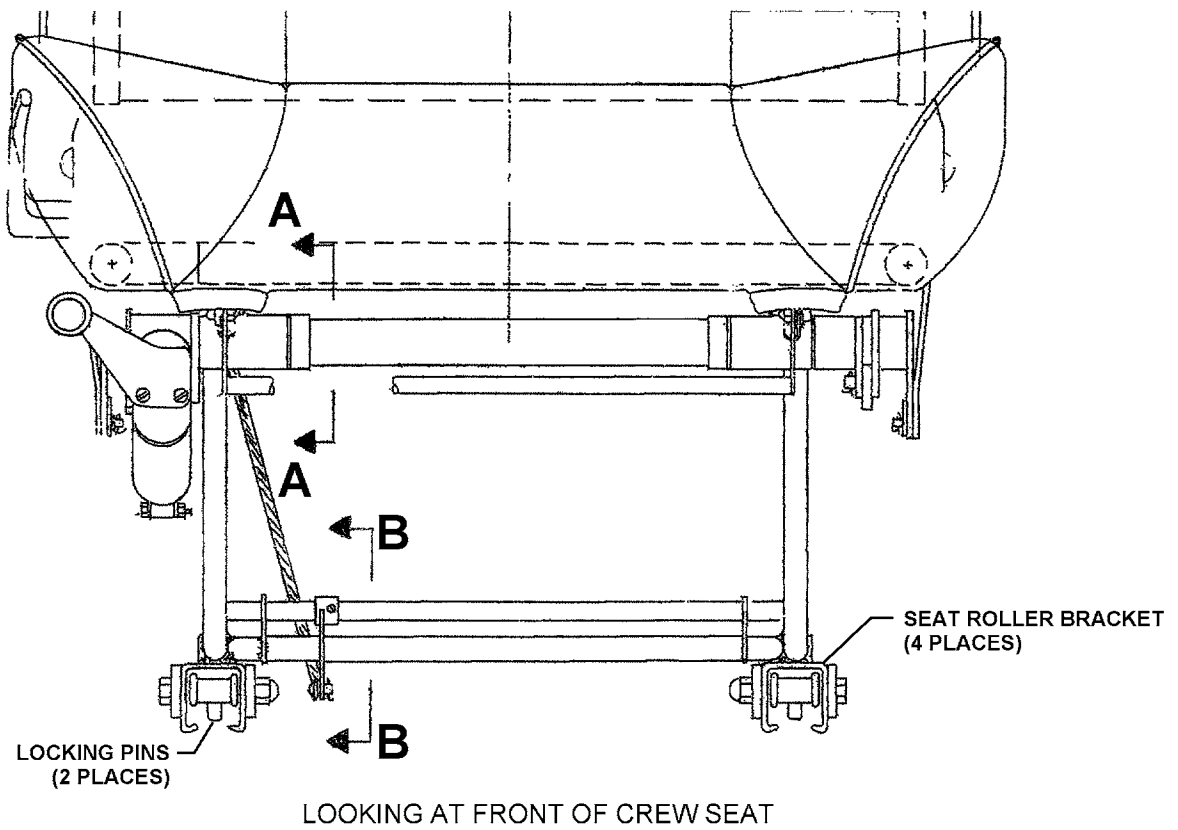
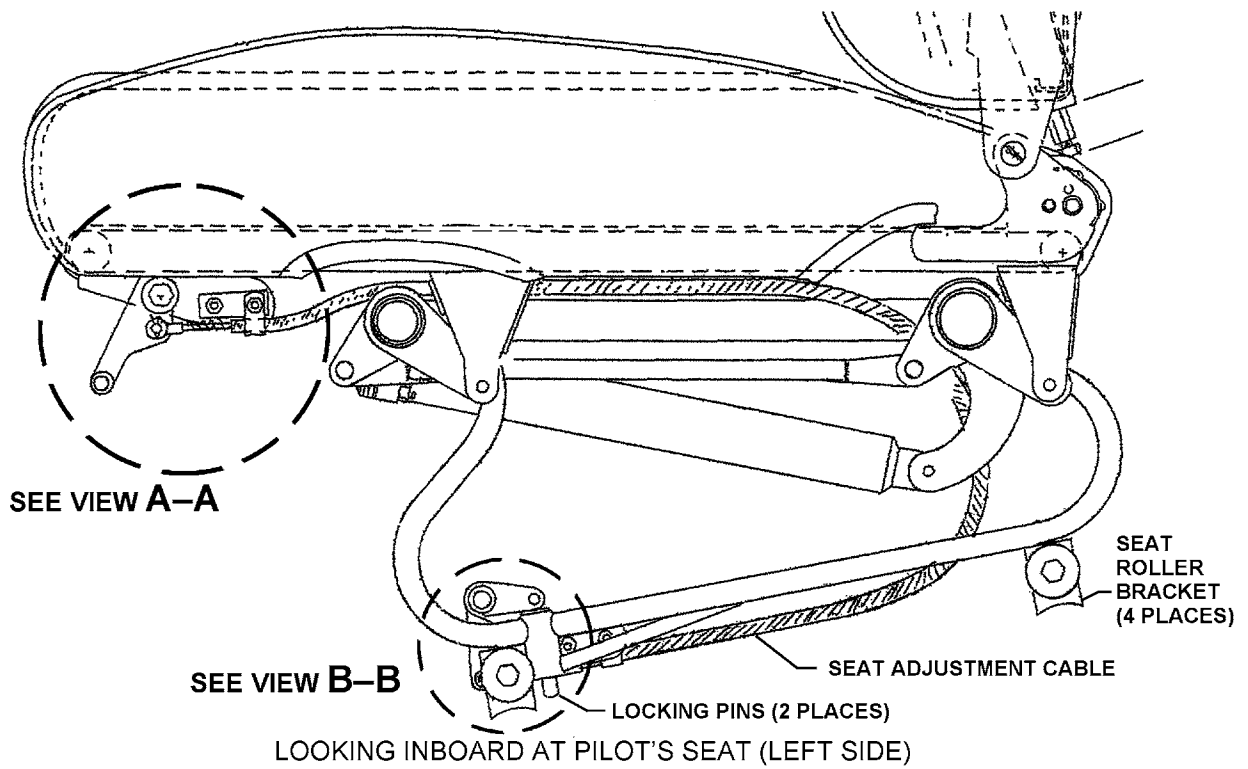
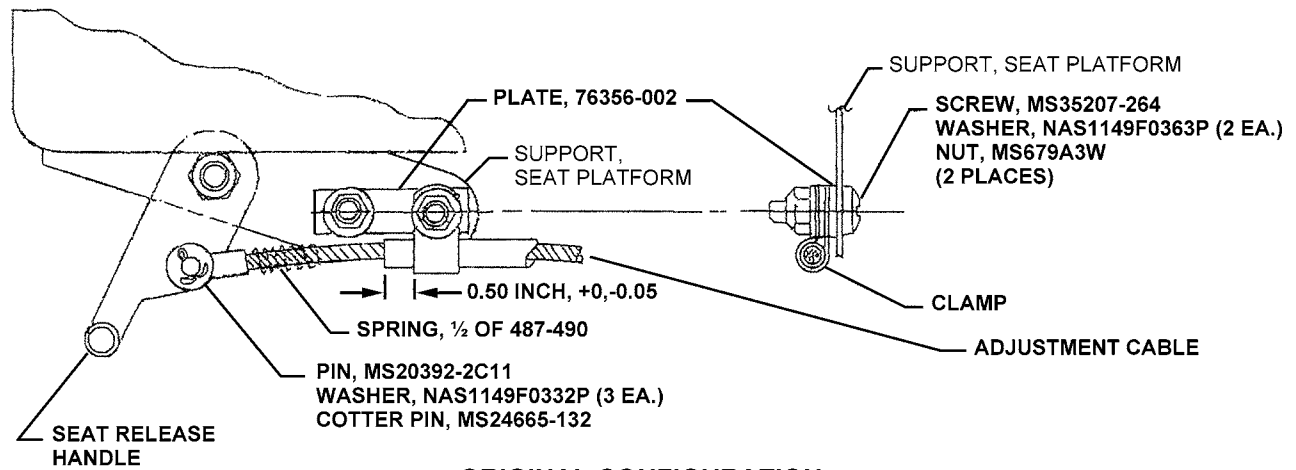
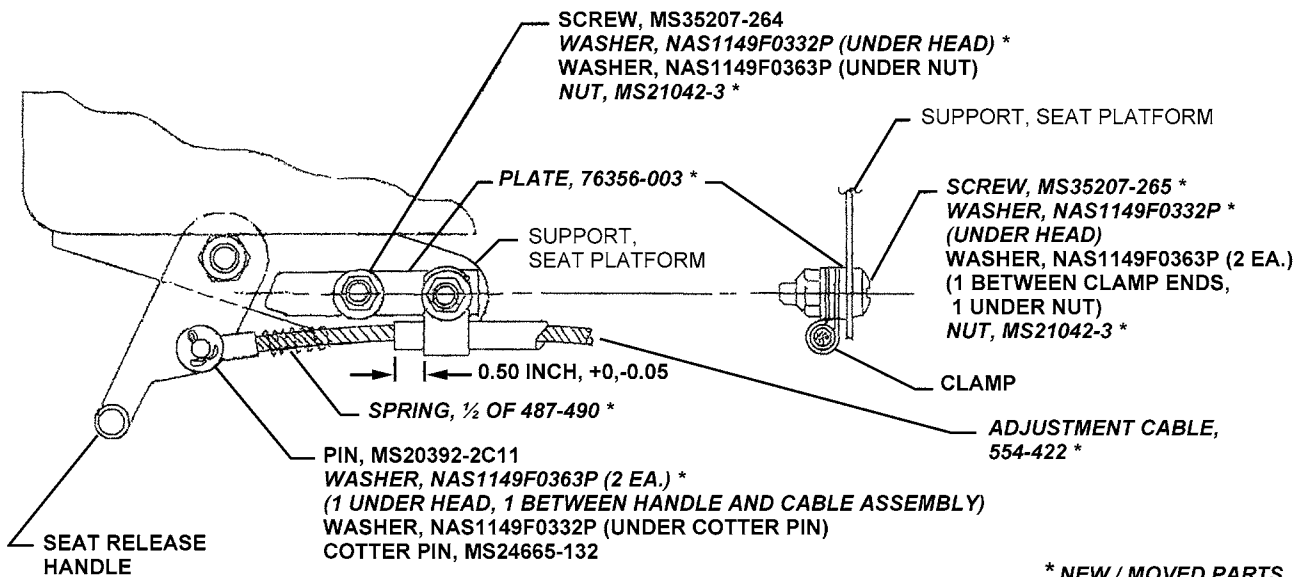


Figure 1, Sheet 1 of 2
Crew Seat Adjustment Cable Installation

VIEW A-A



ORIGINAL CONFIGURATION



* NEW / MOVED PARTS

AFTER MODIFICATION

VIEW B-B

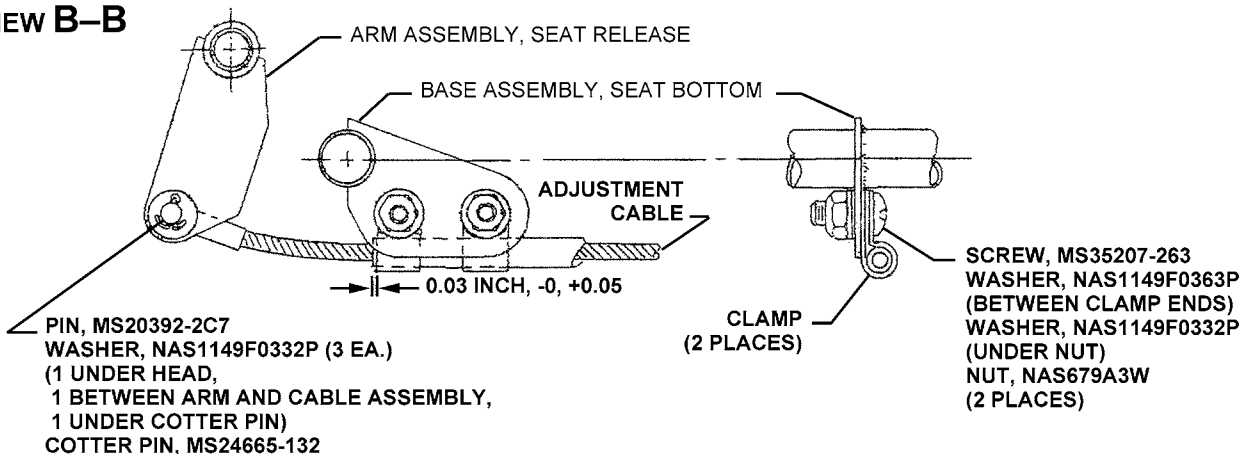


Figure 1, Sheet 2 of 2
Crew Seat Adjustment Cable Installation

MATERIAL REQUIRED:

Per seat to be modified:

- One (1) each, Plate, Piper 76356-003
- 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