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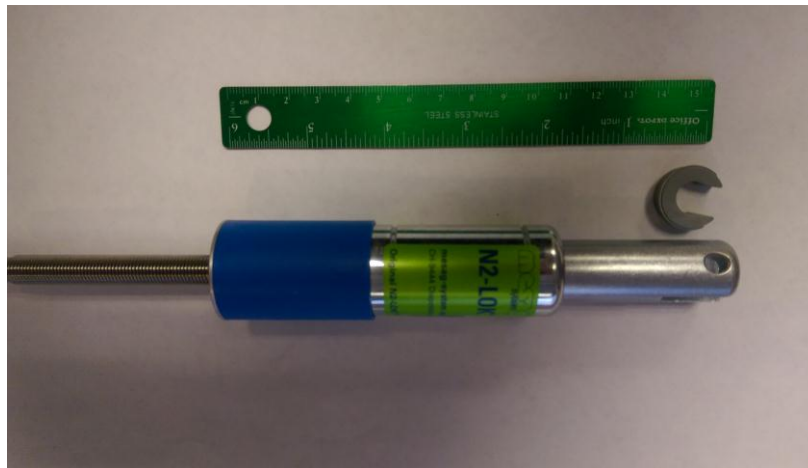
TECHNICAL INSTRUCTION HAC16-001 Rev. A, November 30, 2016

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INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

20402760KT Actuator N2-Lok INSTALLED ON

AIRBUS A319 SERIES AIRCRAFT, AIRBUS A320 SERIES AIRCRAFT,
AIRBUS A321 SERIES AIRCRAFT, AIRBUS A330 SERIES AIRCRAFT
AIRBUS A340 SERIES AIRCRAFT, BOEING 777 SERIES AIRCRAFT,
BOEING 787 SERIES AIRCRAFT
(SEE THE 20402760KT SUPPLEMENT FOR SPECIFIC MODELS)



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1. Introduction

This HEICO Aerospace Technical Instruction (TI) defines the Instructions for Continued Airworthiness when the Actuator N2-Lok, P/N 20402760KT, is installed on the aircraft models listed in the FAA approved supplement for P/N 20402760KT. The Actuator N2-Lok, P/N 20402760KT, is an approved FAA PMA replacement for Recaro's P/N 20402760.

The Actuator N2-Lok, Recaro P/N 20402760, consists of a gas chamber and piston rod assembly, with a removable rod cover and stroke adjustment spacer. The passenger activates the Recaro Actuator using a push-button mounted on the seat's armrest. The Recaro Actuator provides backrest adjustment on the on the Recaro 3510 type passenger seats (see the OEM Illustrated Parts Catalog for the specific installation location(s)).

The Turbine Kinetics, Inc. (TK) Actuator N2-Lok, P/N 20402760KT, incorporates a minor dimensional change to the piston rod's outer diameter. As a result, the stroke adjustment spacer provided with the TK Actuator has a different inner diameter than the Recaro stroke adjustment spacer (Recaro P/N 044388). For this reason, Supplemental ICA is required for adjusting the stroke on the TK Actuator N2-Lok. Despite the internal difference noted above the TK Actuator N2-Lok has been designed to fit and function identically to the Recaro Actuator N2-Lok it replaces. The TK Actuator was approved as equal to/or better than its Recaro counterpart.

2. Installation of P/N 29-014-2004KT

NOTE:

The information presented in this section is for informational purposes only. It is not intended to alter any existing aircraft manual or documentation

Shown below in Figures 1 & 2 is a sample installation of the Recaro Actuator N2-Lok, P/N 20402760, on the Recaro 3510 type passenger seat. The Recaro Actuator N2-Lok is installed on every passenger seat within the aircraft. The actuator's piston rod connects to the armrest push-bottom using a Recaro hydrolock attachment. The actuator's clevis end attaches to backrest using a lever and bolt assembly.

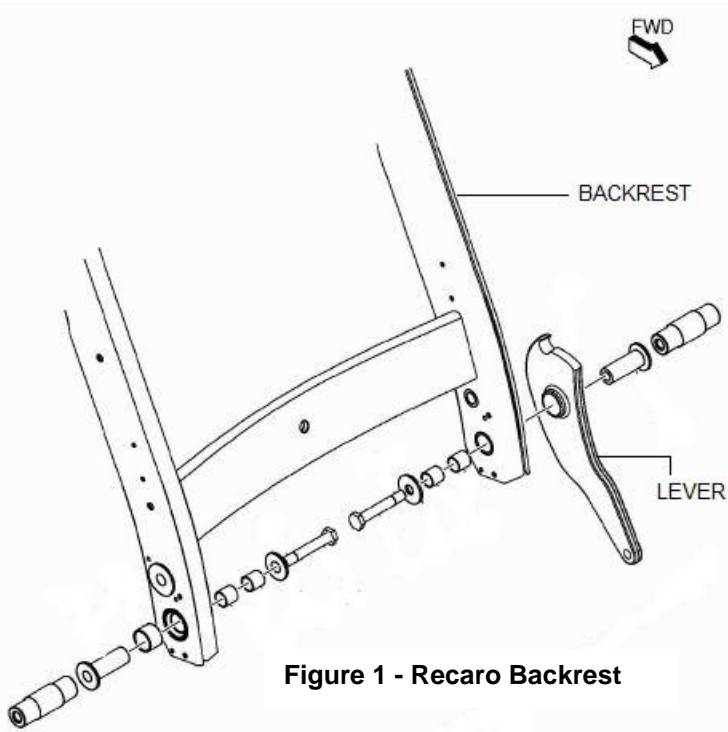


Figure 1 - Recaro Backrest

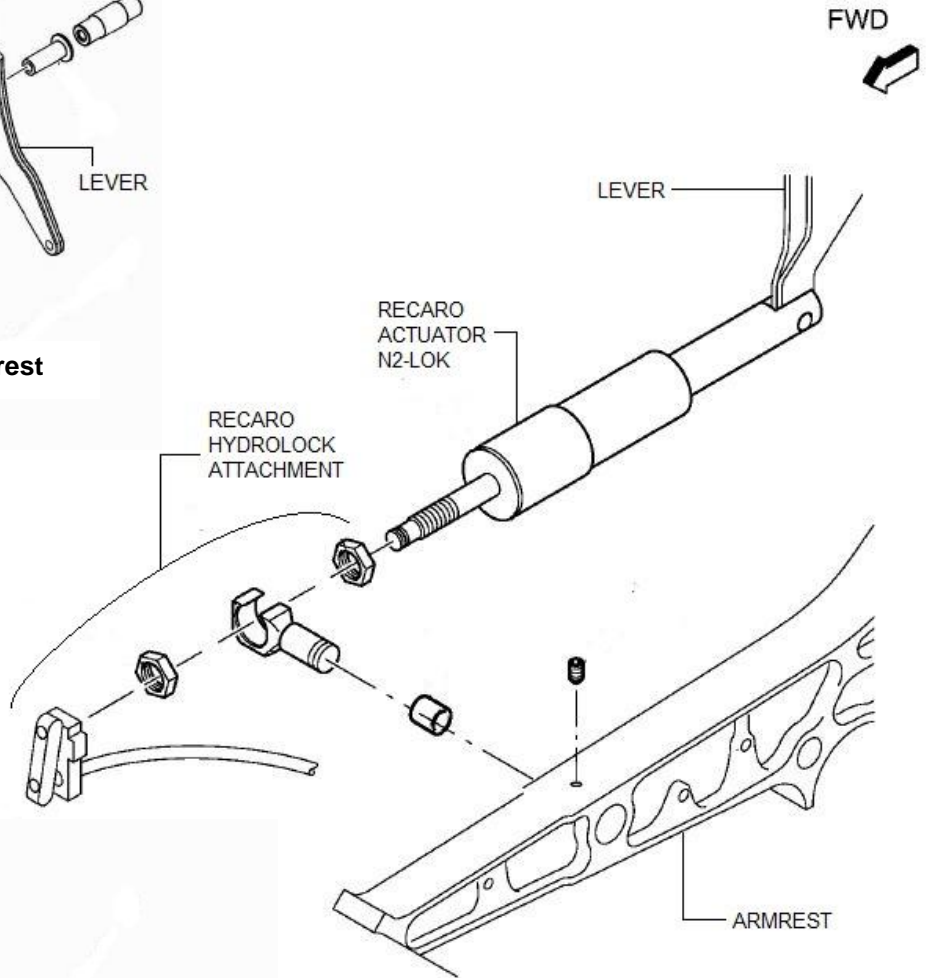


Figure 2 - Recaro Actuator Installation

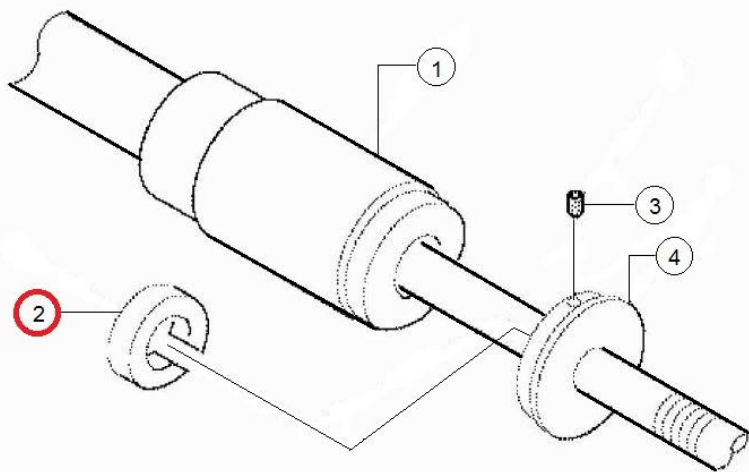


Figure 3 - Actuator N2-Lok



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3. Airworthiness Limitations

The Airworthiness Limitations section is FAA-approved and specifies maintenance required under Sec. 43.16 and 91.403 of the Federal Aviation Regulations, unless an alternative program has been FAA approved. The Instructions for Continued Airworthiness presently acceptable to the FAA for P/N 20402760 are valid for use on P/N 20402760KT with exception to the stroke adjustment procedures found below in Section 4. Due to the fact that P/N 20402760KT is not a life limited part, no additional airworthiness limitations are imposed by the supplementary Instructions for Continued Airworthiness found below in Section 4.

4. Stroke Adjustment for Recline Actuator (with Turbine Kinetics Spacer P/N 044388KT)

Procedure

NOTE: Refer to Figure 3 for an exploded view.

1. Remove cap (1) and pull rearwards over the actuator.

NOTE: To remove the cap (1) use a screw driver

2. Basic adjustment by spacer (2), 7 mm washer clip thickness (Turbine Kinetics P/N 044388KT)
3. For fine adjustment loosen setscrew (3) and turn endcap (4) until required adjustment is reached.
4. Tighten setscrew (3) and move cap (1) into locked position of endcap (4).

5. Material Information

This document will be maintained and the latest approved revision posted on the HEICO web site at <http://ipc.heico.com>.

6. Revision and Approval History

Initial Release – July 26, 2016

Revision A – November 30, 2016

- Page 1 – The following “INSTALLED ON” models were added: Airbus A319 Series Aircraft, Airbus A321 Series Aircraft, Airbus A330 Series Aircraft, and Airbus A340 Series Aircraft. Refer to EER-TK-701 for details.