



TECHNICAL INFORMATION LETTER

TIL N° T-139-22-013

T-189-22-007

DATE: December 23, 2022

REV.: /

To: Leonardo Helicopters products
Owners / Operators / Service Centres

SUBJECT: Pitch and Roll Linear Actuators Installation

Helicopters Affected: All AB/AW139 and AW189 helicopters

Dear Customer,

Leonardo Helicopters (LH) would like to inform you about the coming revision of the procedure for the mechanical installation of the Pitch and Roll Linear Actuators, for both AW139 and AW189 models.

LH has been informed of an event on AW139 in-service helicopter related to an incorrect mechanical installation of the Pitch and Roll Linear Actuators consisting in an inverted position between the two actuators. This incorrect installation led to an abnormal behavior of the H/C Auto Pilot (AP) during the subsequent flight.

Swapping the mechanical installation of the Pitch and Roll Linear Actuators causes an unintended operation of the H/C Auto Pilot, which may possibly result in a loss of control of the helicopter. In order to highlight the requirement of correct component identification during installation, the Pitch and Roll Linear Actuators installation procedures, listed in Annex A, will be improved to introduce:

- new Warnings and Cautions requiring to check the P/N marked on the label installed on both the actuators before installation;
- new detailed pictures, to easily identify the position of aforementioned label and related actuator P/N.

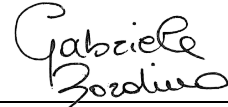
LH highlights the importance to always follow the IETP Aircraft Maintenance Publications (AMP) procedures and, with the last improvement introduced in the revised procedures, to correctly identify and tag Pitch and Roll Linear Actuators during their installation.

Pitch and Roll Linear Actuators Installation

The revised procedures will be published with IETP Issue 42 for AW139 and with TMI189-055 for AW189 by the end of December 2022.

Should you need any additional information, please do not hesitate to refer to your usual contact within LH Engineering Support team.

Yours Sincerely,



Gabriele Bordino
Head of Product Support Engineering

Annex A

The following AMP procedures for installation of Pitch and Roll actuators will be reviewed in order to highlight the requirement of correct component identification during installation procedure:

- AB/AW139
 - DM 39-A-22-11-02-00A-720A-A Pitch actuator - Install procedure
 - DM 39-A-22-11-03-00A-720A-A Roll actuator - Install procedure

- AW189
 - DM 89-A-22-11-02-00A-720A-A Pitch actuator - Install procedure
 - DM 89-A-22-11-05-00A-720A-A Roll actuator - Install procedure