



AIRCRAFT
MAINTENANCE MANUAL

FLAP - MECHANICAL LINE - MAINTENANCE PRACTICES

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to put the flap actuators back to a serviceable condition.
- B. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

<i>TASK NUMBER</i>	<i>DESCRIPTION</i>	<i>EFFECTIVITY</i>
27-51-00-960-801-A	GREASE FITTING OF THE FLAP ACTUATOR - REPLACEMENT	ALL



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TASK 27-51-00-960-801-A

EFFECTIVITY: ALL

2. GREASE FITTING OF THE FLAP ACTUATOR - REPLACEMENT

A. General

- (1) This task gives the procedure to put the flap actuators back to a serviceable condition, after you replace the grease fitting of the FSA.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 27-51-00-600-801-A/300	FLAP SCREWJACK ACTUATOR (FSAS) - LUBRICATION
AMM TASK 27-51-09-000-802-A/400	INBOARD FLAP TIP ACTUATOR (FSA 2) - REMOVAL
AMM TASK 27-51-09-400-802-A/400	INBOARD FLAP TIP ACTUATOR (FSA 2) - INSTALLATION
AMM TASK 27-51-10-000-801-A/400	OUTBOARD FLAP ROOT ACTUATOR (FSA 3) - REMOVAL
AMM TASK 27-51-10-400-801-A/400	OUTBOARD FLAP ROOT ACTUATOR (FSA 3) - INSTALLATION
NAS516-1A	-

C. Zones and Accesses

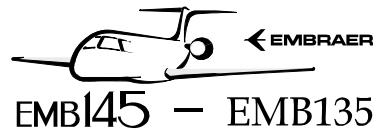
ZONE	PANEL/DOOR	LOCATION
571	571AB/BB	Inboard Flap - Left Wing
572	572AB/BB	Inboard Flap - Right Wing
671	671AB/BB	Outboard Flap - Left Wing
672	672AB/BB	Outboard Flap - Right Wing

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 401	Grease fitting extractor	To remove the grease fitting from the gimbal of the actuator	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Allen wrench, 9/16 in-dia	To install the GSE in the grease fitting of the actuator gimbal	1
Commercially available	Punch, 4 mm (5/32 inch)-dia	To install the grease fitting in the actuator gimbal	1



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F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-PRF-81322	Commercially available	AR

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Lubrication Fitting	NAS516-1A	AR

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Wing trailing edge

I. Preparation

SUBTASK 841-002-A

- (1) Energize the aircraft with an External DC Power Supply ([AMM TASK 20-40-01-860-801-A/200](#)).
- (2) Set the flaps to the 45-degree position.
- (3) On the circuit breaker panel, open the FLAP 1 and FLAP 2 circuit breakers and attach a DO-NOT-CLOSE tag to them.
- (4) Make sure that the aircraft is safe for maintenance.
- (5) If necessary, remove the protection cover to get access to the gimbal of the inboard flap tip actuator ([AMM TASK 27-51-09-000-802-A/400](#)).
- (6) If necessary, remove the protection cover to get access to the gimbal of the outboard flap root actuator ([AMM TASK 27-51-10-000-801-A/400](#)).

J. Replacement of the Grease Fitting of the Flap Actuator ([Figure 201](#))

SUBTASK 960-002-A

- (1) Install the grease fitting extractor (GSE 401) in the grease fitting. Refer to [Figure 201](#), Sheet 2.
 - Make sure that the grease fitting extractor is correctly attached to the grease fitting.
- (2) Turn the extractor counterclockwise. Refer to [Figure 201](#), Sheet 2.
 - Make sure that no chips go into the ballnut.
- (3) Use the slide hammer of the grease fitting extractor to remove the grease fitting. Refer to [Figure 201](#), Sheet 2.
- (4) Remove the grease fitting from the ballnut. Refer to [Figure 201](#), Sheet 2.

- (5) If necessary, cut the grease fitting to make sure that you removed the ball and the spring
 - If you do not find the ball and the spring of the grease fitting, you must remove the actuator from the aircraft and install a new actuator.
- (6) Clean the ballnut with a clean cloth.
- (7) Apply some new grease to the ballnut.
CAUTION: MAKE SURE THAT THE PUNCH DOES NOT CAUSE DAMAGE TO THE ACTUATOR.
- (8) With the punch vertical, carefully install the new grease fitting. Refer to [Figure 201](#), Sheet 3.
- (9) Lubricate the actuator ([AMM TASK 27-51-00-600-801-A/300](#)).

K. Follow-on

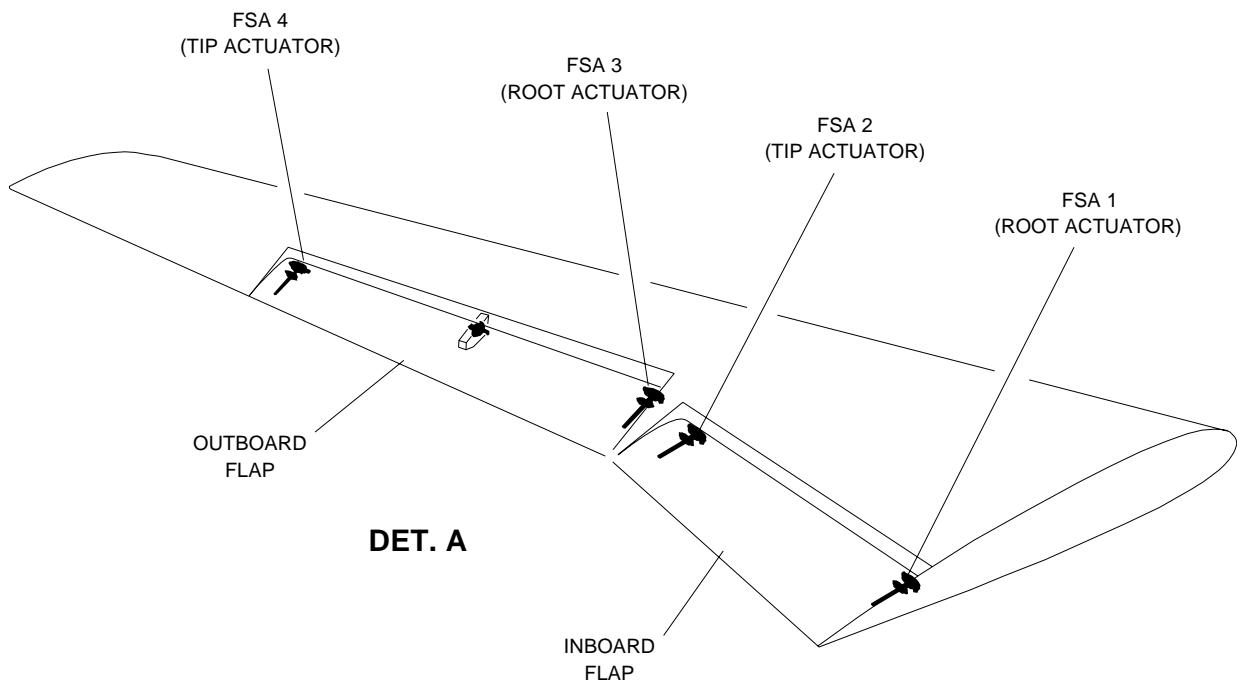
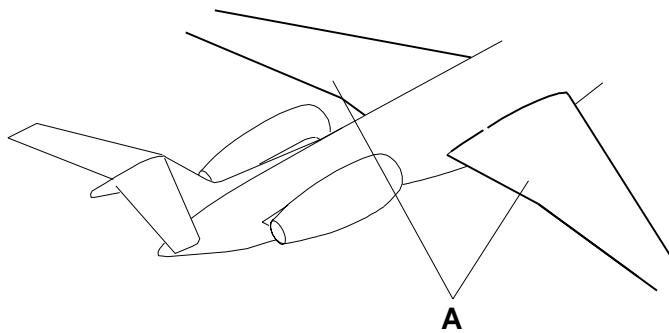
SUBTASK 842-002-A

- (1) If applicable, install the protection cover of the gimbal of the inboard flap tip actuator ([AMM TASK 27-51-09-400-802-A/400](#)).
- (2) If applicable, install the protection cover of the gimbal of the outboard flap root actuator ([AMM TASK 27-51-10-400-801-A/400](#)).
- (3) On the Circuit Breaker Panel, close the FLAP 1 and FLAP 2 circuit breakers and remove the DO-NOT-CLOSE tag from them.
- (4) Set the flaps to the 0-degree position.
- (5) Deenergize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).

EFFECTIVITY: ALL

Replacement of the Grease Fitting of the Flap Actuator

Figure 201 - Sheet 1

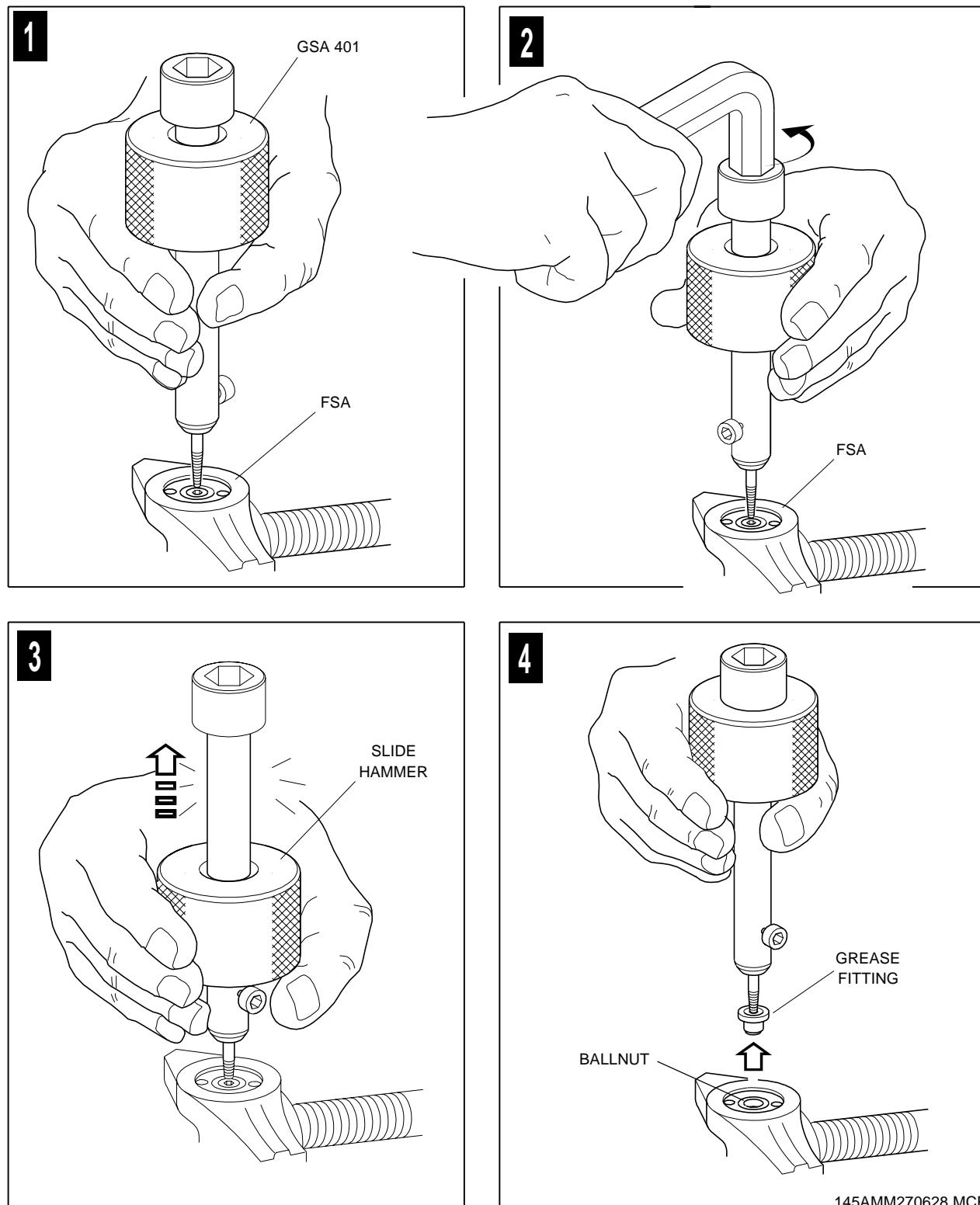


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EFFECTIVITY: ALL

Replacement of the Grease Fitting of the Flap Actuator

Figure 201 - Sheet 2



EFFECTIVITY: ALL

Replacement of the Grease Fitting of the Flap Actuator

Figure 201 - Sheet 3

