

## ACTUATOR LOCKING DEVICE - REMOVAL/INSTALLATION

*EFFECTIVITY: AIRCRAFT WITH ELECTROMECHANICAL GUST LOCK*

### 1. General

- A. This section gives the procedures to install and remove the electromechanical gust-lock actuator locking device.
- B. The actuator locking device is installed in the electromechanical gust-lock actuator position. It must be kept only during the electromechanical gust-lock system inoperative time.
- C. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
27-71-07-000-801-A	ACTUATOR LOCKING DEVICE - REMOVAL	AIRCRAFT WITH ELECTROMECHANICAL GUST LOCK
27-71-07-400-801-A	ACTUATOR LOCKING DEVICE - INSTALLATION	AIRCRAFT WITH ELECTROMECHANICAL GUST LOCK

TASK 27-71-07-000-801-A

*EFFECTIVITY: AIRCRAFT WITH ELECTROMECHANICAL GUST LOCK*

## 2. ACTUATOR LOCKING DEVICE - REMOVAL

### A. General

- (1) This task gives the procedure to remove the actuator locking device and put the aircraft back to normal.

### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 27-71-01-000-801-A/400</a>	ELECTROMECHANICAL ACTUATOR - REMOVAL
<a href="#">AMM TASK 55-36-00-400-801-A/400</a>	TAIL BOOM - INSTALLATION

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
321	321	Tail boom

### D. Tools and Equipment

Not Applicable

### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Gloves, Phosphate Ester-Base, Fluid-Resistant	Protection for the hands	1
Commercially available	Rubber Goggles, Phosphate Ester-Base, Fluid-Resistant	Protection for the eyes	1

### F. Consumable Materials

Not Applicable

### G. Expandable Parts

Not Applicable

### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Horizontal stabilizer

I. Removal ([Figure 401](#))

*SUBTASK 020-002-A*

**WARNING:** • **MAKE SURE THAT THE RUDDER, HORIZONTAL STABILIZER, AND ELEVATOR CANNOT BE OPERATED ACCIDENTALLY. AN ACCIDENTAL OPERATION CAN CAUSE INJURY TO PERSONS.**

- **CA-1000 CORROSION-INHIBITING COMPOUND IS TOXIC TO SKIN, EYES, AND RESPIRATORY TRACT. USE PVC GLOVES AND EYE PROTECTION. USE ONLY IN WELL VENTILATED AREAS. OBEY THE MANUFACTURERS' HEALTH AND SAFETY INSTRUCTIONS.**

- (1) Remove and discard the cotter pin (2).
- (2) Remove the bolt (6), bushing (5), washer (4), and nut (3) to remove the actuator locking device (1) from the support.
- (3) Remove and discard the cotter pin (10).
- (4) Remove the bolt (11), bushing (7), washer (8), and nut (9) to remove the actuator locking device (1) from the bellcrank mechanism.
- (5) Remove the actuator locking device (1) from the horizontal stabilizer torque box.

J. Follow-on

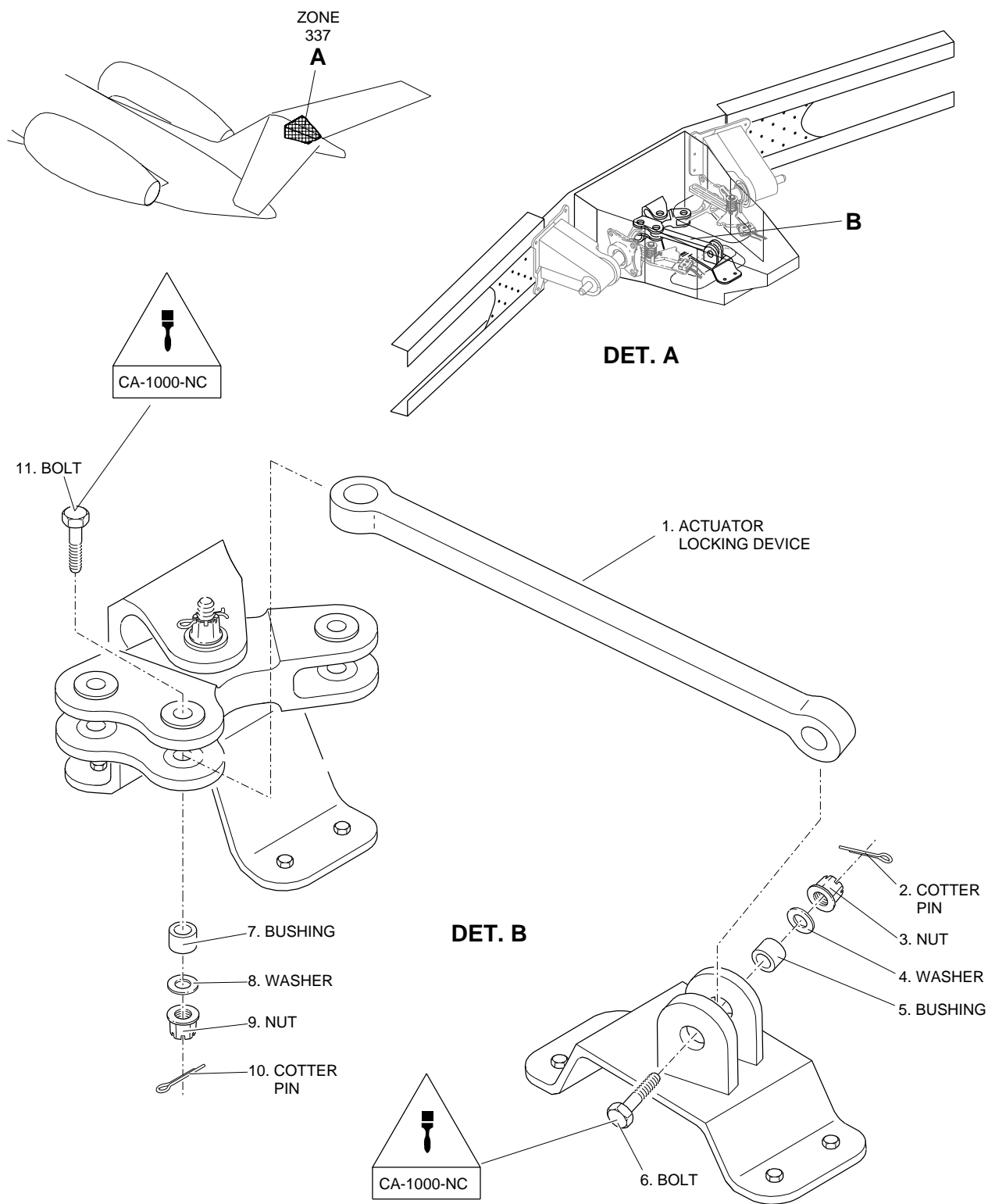
*SUBTASK 842-002-A*

- (1) Install the electromechanical gust lock actuator. Refer to [AMM TASK 27-71-01-000-801-A/400](#).
- (2) Install rear fairings 321 of the horizontal stabilizer [AMM TASK 55-36-00-400-801-A/400](#).
- (3) Set the gust lock system to the locked position.

**EFFECTIVITY: AIRCRAFT WITH ELECTROMECHANICAL GUST LOCK**

**Actuator Locking Device - Removal/Installation**

Figure 401



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TASK 27-71-07-400-801-A

*EFFECTIVITY: AIRCRAFT WITH ELECTROMECHANICAL GUST LOCK*

### 3. ACTUATOR LOCKING DEVICE - INSTALLATION

#### A. General

- (1) This task gives the procedure to install the actuator locking device.
- (2) Do this procedure when you have the electromechanical gust lock system inoperative. See the Dispatch Deviations Procedures Manual (DDPM 27-70-00) before you get approval for aircraft flight.

#### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 27-71-01-000-801-A/400</a>	ELECTROMECHANICAL ACTUATOR - REMOVAL
<a href="#">AMM TASK 55-36-00-000-801-A/400</a>	TAIL BOOM - REMOVAL
<a href="#">AMM TASK 55-36-00-400-801-A/400</a>	TAIL BOOM - INSTALLATION
DDPM 27-70-00	-
IPC 27-71-00	GUST LOCK ELECTROMECHANICAL
IPC 27-71-07	ACTUATOR LOCKING DEVICE

#### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
321	321	Tail boom

#### D. Tools and Equipment

Not Applicable

#### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Gloves, Phosphate Ester-Base, Fluid-Resistant	Protection for the hands	1
Commercially available	Rubber Goggles, Phosphate Ester-Base, Fluid-Resistant	Protection for the eyes	1

#### F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MEP 09-060	Corrosion-Inhibiting Compound	As necessary

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Cotter pin	IPC 27-71-00	2
Actuator Locking Device	IPC 27-71-07	1

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Horizontal stabilizer

I. Preparation

**SUBTASK 841-002-A**

- (1) Set the gust lock system to the unlocked position.
- (2) Remove rear fairings 321 of the horizontal stabilizer [AMM TASK 55-36-00-000-801-A/400](#).
- (3) Remove the electromechanical gust lock actuator. Refer to [AMM TASK 27-71-01-000-801-A/400](#).

J. Installation (Figure 401)

**SUBTASK 420-002-A**

**WARNING:** • **MAKE SURE THAT THE RUDDER, HORIZONTAL STABILIZER, AND ELEVATOR CANNOT BE OPERATED ACCIDENTALLY. AN ACCIDENTAL OPERATION CAN CAUSE INJURY TO PERSONS.**

- **CA-1000 CORROSION-INHIBITING COMPOUND IS TOXIC TO SKIN, EYES, AND RESPIRATORY TRACT. USE PVC GLOVES AND EYE PROTECTION. USE ONLY IN WELL VENTILATED AREAS. OBEY THE MANUFACTURERS' HEALTH AND SAFETY INSTRUCTIONS.**

- (1) Apply corrosion-inhibiting compound as shown in (Figure 401). For this, use gloves and goggles.
- (2) Use the bolt (11), bushing (7), washer (8), nut (9), and cotter pin (10) to install the actuator locking device (1) to the bellcrank mechanism.
- (3) Use the bolt (6), bushing (5), washer (4), nut (3), and cotter pin (2) to install the actuator locking device (1) to the support.

K. Follow-on

**SUBTASK 842-003-A**

- (1) Install rear fairings 321 of the horizontal stabilizer [AMM TASK 55-36-00-400-801-A/400](#).