



EMB145 – EMB135

AIRCRAFT  
MAINTENANCE MANUAL

**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 - REMOV- AL	AIRCRAFT WITH ELECTROMECHANI- CAL GUST LOCK
27-71-07-400-801-A	ACTUATOR LOCKING DEVICE - INSTAL- LATION	AIRCRAFT WITH ELECTROMECHANI- CAL GUST LOCK



# AIRCRAFT MAINTENANCE MANUAL

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
AMM TASK 27-71-01-000-801-A/400	ELECTROMECHANICAL ACTUATOR - REMOVAL
AMM TASK 55-36-00-400-801-A/400	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



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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

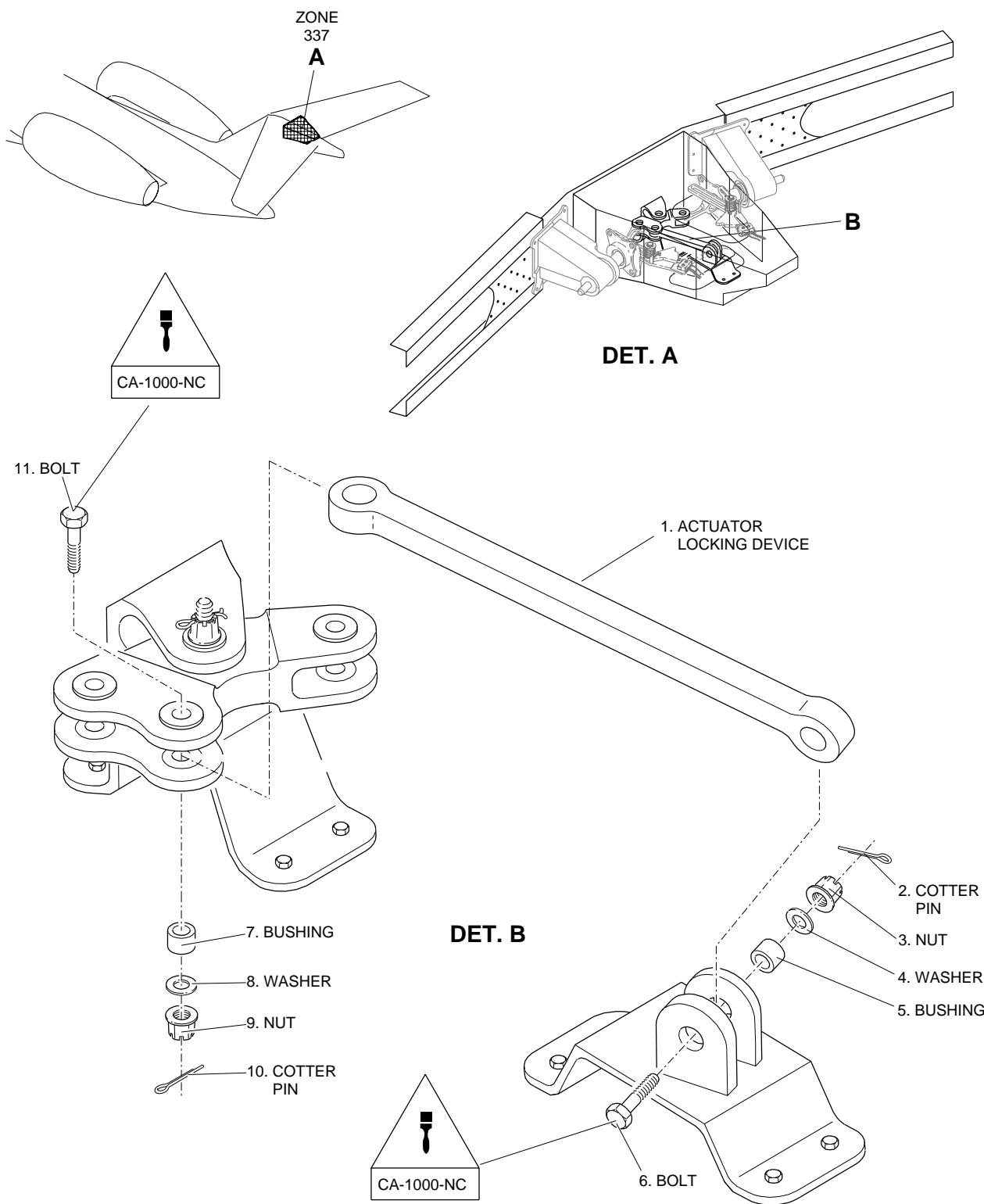
SUBTASK 842-002-A

- (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
AMM TASK 27-71-01-000-801-A/400	ELECTROMECHANICAL ACTUATOR - REMOVAL
AMM TASK 55-36-00-000-801-A/400	TAIL BOOM - REMOVAL
AMM TASK 55-36-00-400-801-A/400	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



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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](#).