



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

APRON KEEPER EYEBOLT - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove/install the apron keeper eyebolt.
- B. These procedures are applicable to the LH and RH nacelles.
- 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
71-13-02-000-801-A	APRON KEEPER EYEBOLT - REMOVAL	ALL
71-13-02-400-801-A	APRON KEEPER EYEBOLT - INSTALLA- TION	ALL



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TASK 71-13-02-000-801-A

EFFECTIVITY: ALL

2. APRON KEEPER EYEBOLT - REMOVAL

A. General

- (1) Obey the instructions below to remove the apron keeper eyebolt.

B. References

REFERENCE	DESIGNATION
AMM MPP 71-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 71-12-01-000-801-A/400	ENGINE LOWER COWLING - OPENING

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
413	Lower cowling	LH engine
423	Lower cowling	RH engine

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the work area	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH/RH Engine nacelle

I. Preparation

SUBTASK 841-002-A

WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 71-00-00/200 TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.

- (1) On the circuit breaker panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them:
- START 1/2.



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- (2) Put the workstand in position and get access to the engine nacelle.
- (3) Open the lower cowling ([AMM TASK 71-12-01-000-801-A/400](#)).

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

SUBTASK 020-002-A

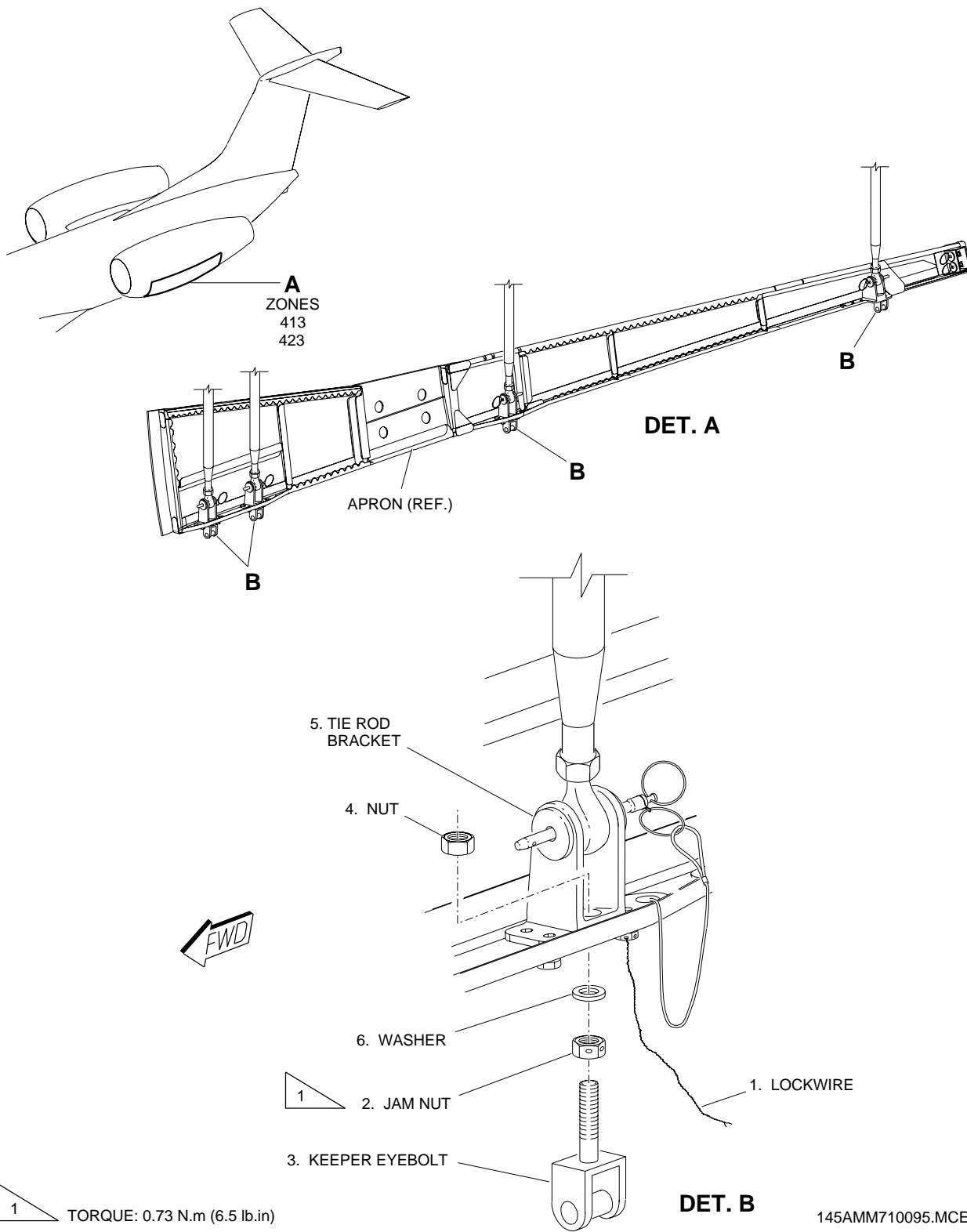
**WARNING: DO NOT TOUCH THE ENGINE COMPONENTS UNTIL THEY ARE COOL.
TEMPERATURE CAN STAY HOT AFTER THE ENGINE STOPS.**

- (1) Remove the lockwire (1) from the keeper-eyebolt jam nut (2).
- (2) Loosen the keeper-eyebolt jam nut (2) sufficiently to let the keeper eyebolt (3) be loosened also.
- (3) Loosen the keeper eyebolt (3) to be removed from the apron, and be careful with the nut (4) installed on the tie rod bracket (5), which will be free when the keeper eyebolt is removed.
- (4) Remove the nut (4) from the tie rod bracket (5).
NOTE: Be careful not to lose the nut (4).
- (5) Remove the washer (6) and keeper-eyebolt jam nut (2) from the keeper eyebolt (3).
- (6) Remove the keeper eyebolt (3).

EFFECTIVITY: ALL

Apron Keeper Eyebolt - Removal/Installation

Figure 401





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TASK 71-13-02-400-801-A

EFFECTIVITY: ALL

3. APRON KEEPER EYEBOLT - INSTALLATION

A. General

- (1) Obey the instructions below to install the apron keeper eyebolt.

B. References

REFERENCE	DESIGNATION
AMM MPP 71-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 71-12-01-400-801-A/400	ENGINE LOWER COWLING - CLOSING
TASK 71-12-03-800-001-A	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
413	Lower cowling	LH engine
423	Lower cowling	RH engine

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench	To torque the jam nut	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the work area	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MS 20995C20	Lockwire	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Engine Nacelle



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I. Installation (Figure 401)

SUBTASK 420-002-A

WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 71-00-00/200 TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.

- (1) Install the nut (4) on the tie rod bracket (5).
- (2) Install the keeper eyebolt jam nut (2) on the keeper eyebolt (3) thread and install the washer (6), sufficiently to let the keeper eyebolt (3) be tightened in the nut (4) through the apron edge member hole.
- (3) Adjust the keeper eyebolt together with the lower cowling latch adjustment procedure (TASK 71-12-03-800-001-A).
- (4) Torque the keeper eyebolt jam nut (2), and lockwire it.

J. Follow on

SUBTASK 842-002-A

- (1) Close the lower cowling ([AMM TASK 71-12-01-400-801-A/400](#)).
- (2) Remove the workstand from the work area.
- (3) On the circuit breaker panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them:
 - START 1/2.