



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

COWLING - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do the inspection/check of the cowling.
- 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).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
71-10-00-200-801-A ♦	COWLING SEALS - VISUAL CHECK	ALL
71-10-00-200-802-A	COWLING AERODYNAMIC SURFACES - INSPECTION	ALL
71-10-00-200-803-A	COWLING RELIEF DOOR - INSPECTION	ALL
71-10-00-200-804-A ♦	COWLING INBOARD/OUTBOARD ATTACHMENT AND SURROUNDING STRUCTURE - INSPECTION	ALL



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TASK 71-10-00-200-801-A

EFFECTIVITY: ALL

2. COWLING SEALS - VISUAL CHECK

A. General

- (1) These procedures are applicable to the LH and RH engines.

B. References

REFERENCE	DESIGNATION
AMM TASK 71-12-01-000-801-A/400	ENGINE LOWER COWLING - OPENING
AMM TASK 71-12-01-400-801-A/400	ENGINE LOWER COWLING - CLOSING

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
410		LH Powerplant
420		RH Powerplant

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the engine	01

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
01	Does the task	On the powerplant

I. Preparation

SUBTASK 841-002-A

- (1) Open the engine lower cowling (LH or RH). Refer to (AMM TASK 71-12-01-000-801-A/400).

J. Visually Check Cowling Seals ([Figure 601](#))

SUBTASK 211-002-A

- (1) Visually check the cowling seals for damage, wear, and loosen parts.



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(2) Repair or replace the defective parts as necessary.

K. Follow-on

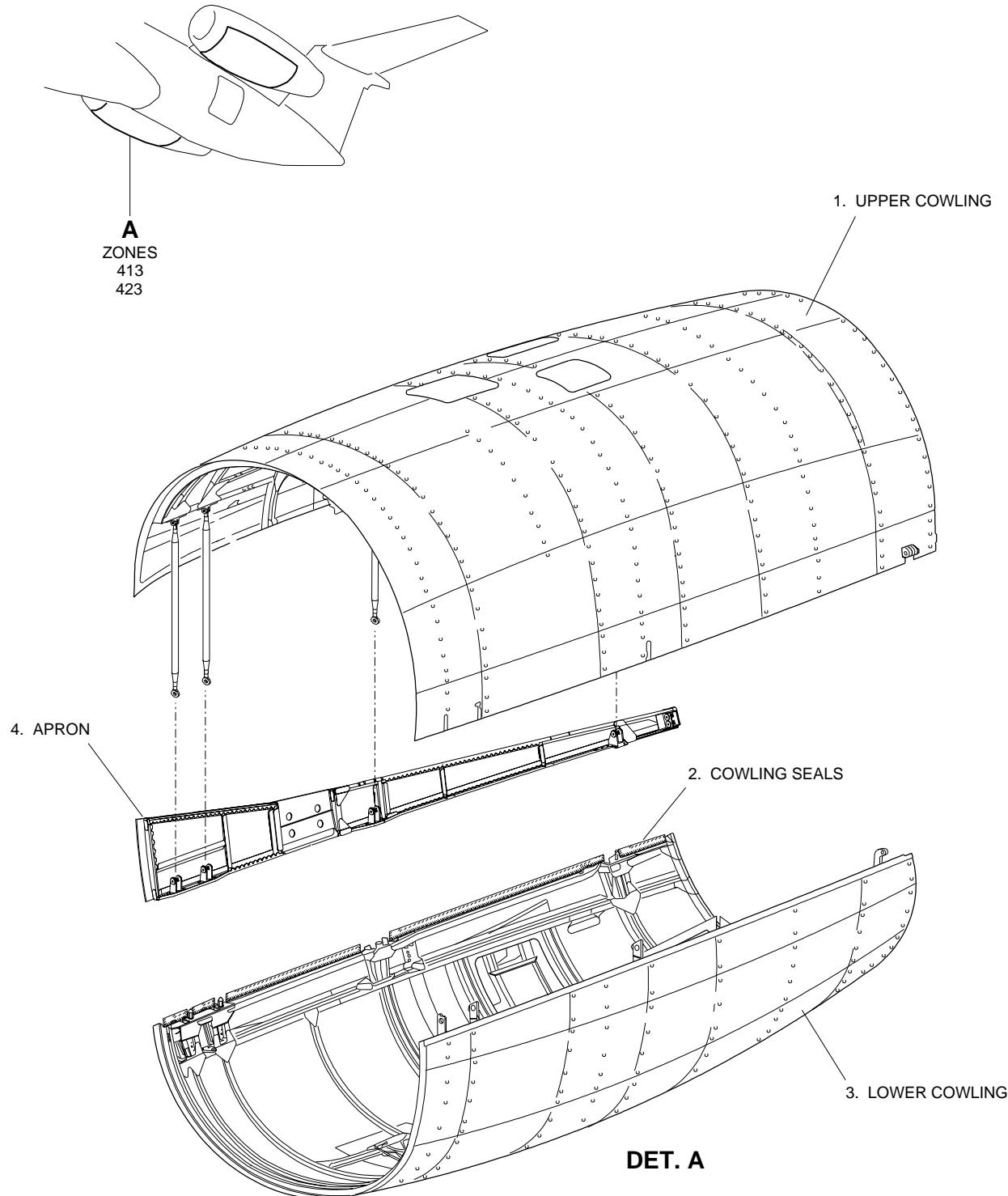
SUBTASK 842-002-A

(1) Close the lower cowling. Refer to ([AMM TASK 71-12-01-400-801-A/400](#)).

EFFECTIVITY: ALL

Cowling Seals - Visual Check

Figure 601



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TASK 71-10-00-200-802-A

EFFECTIVITY: ALL

3. COWLING AERODYNAMIC SURFACES - INSPECTION

A. General

- (1) Obey the instructions below to inspect the cowling aerodynamic surfaces.

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
410		LH Powerplant
420		RH Powerplant

C. Tools and Equipment

Not Applicable

D. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the engine	01

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
01	Does the task	On the powerplant

H. Preparation

SUBTASK 841-003-A

- (1) Put the ladder near the engine cowling.

I. Inspect Cowling Aerodynamic Surfaces ([Figure 602](#))

SUBTASK 212-002-A

- (1) Inspect the exterior surfaces and edges of the upper and lower cowlings and the apron for damage, failure, or other problem.
- (2) Inspect the skins and panels for security of installation (loose or missing fasteners).
- (3) Repair or replace the defective parts as necessary.



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J. Follow-on

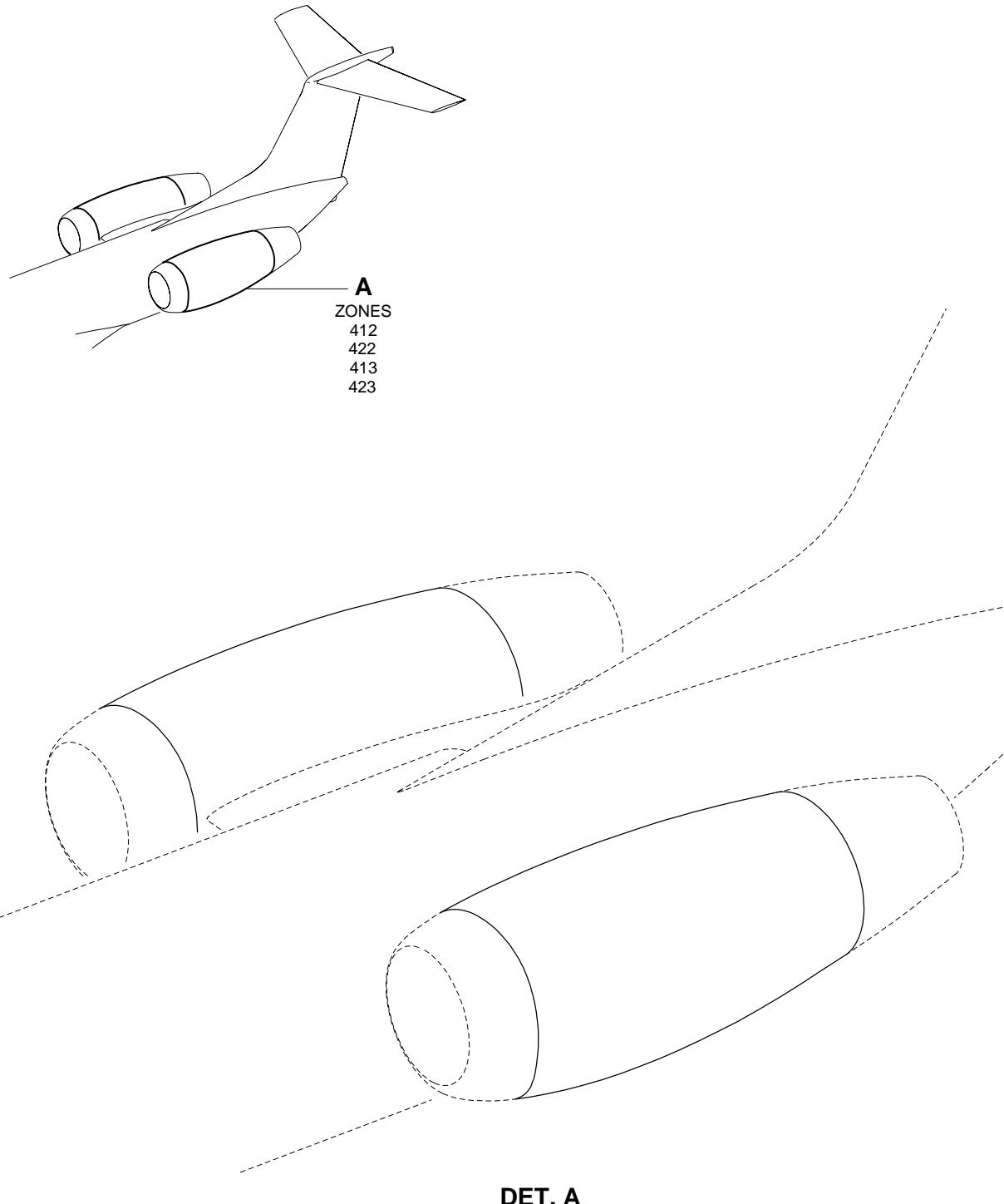
SUBTASK 842-003-A

- (1) Remove the ladder.

EFFECTIVITY: ALL

Cowling Aerodynamic Surfaces - Inspection

Figure 602



DET. A

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TASK 71-10-00-200-803-A

EFFECTIVITY: ALL

4. COWLING RELIEF DOOR - INSPECTION

A. General

- (1) Obey the instructions below to inspect the cowling relief door.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-43-00/100	- COMPONENT LOCATION
AMM TASK 71-12-01-000-801-A/400	ENGINE LOWER COWLING - OPENING
AMM TASK 71-12-01-400-801-A/400	ENGINE LOWER COWLING - CLOSING

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
413	LH Lower cowling	LH Engine
423	RH 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 engine	01

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
01	Does the task	On the engine

I. Preparation

SUBTASK 841-004-A

- (1) Open the engine lower cowling (LH or RH). Refer to (AMM TASK 71-12-01-000-801-A/400).



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J. Inspect Cowling Relief Door ([Figure 603](#))

SUBTASK 212-003-A

- (1) Open the cowling relief door 413AB or 423AB. Refer to ([AMM MPP 06-43-00/100](#)).
- (2) Inspect the pressure relief door latches, springs, hinges, and door structure, for damage, failure, or other problem which may prevent the door operation. Inspect the gap around the pressure relief door for build-up of paint.
- (3) Close cowling relief door 413AB or 423AB. Refer to ([AMM MPP 06-43-00/100](#)).

K. Follow-on

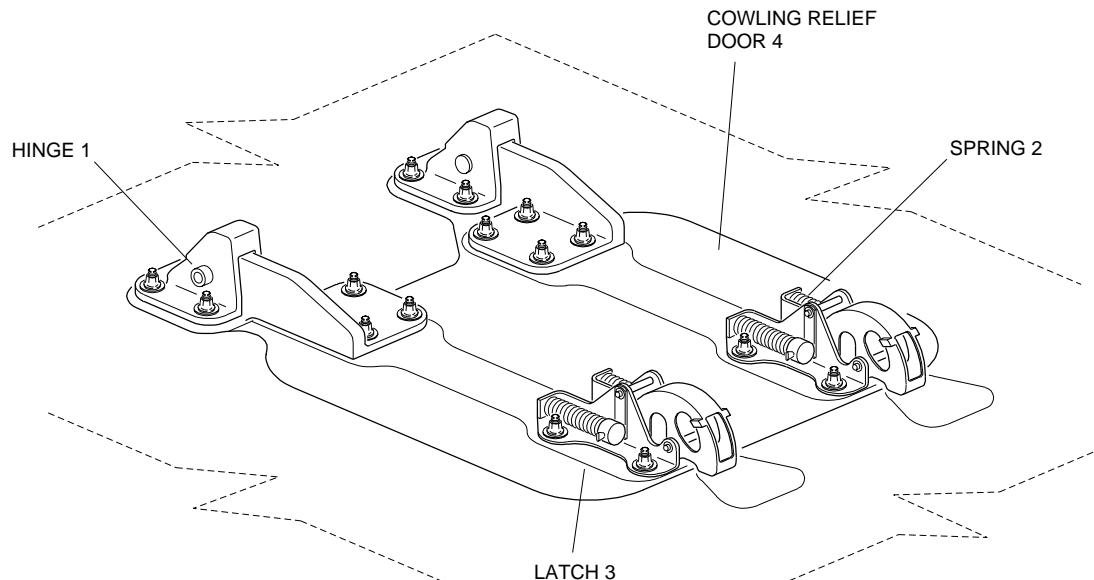
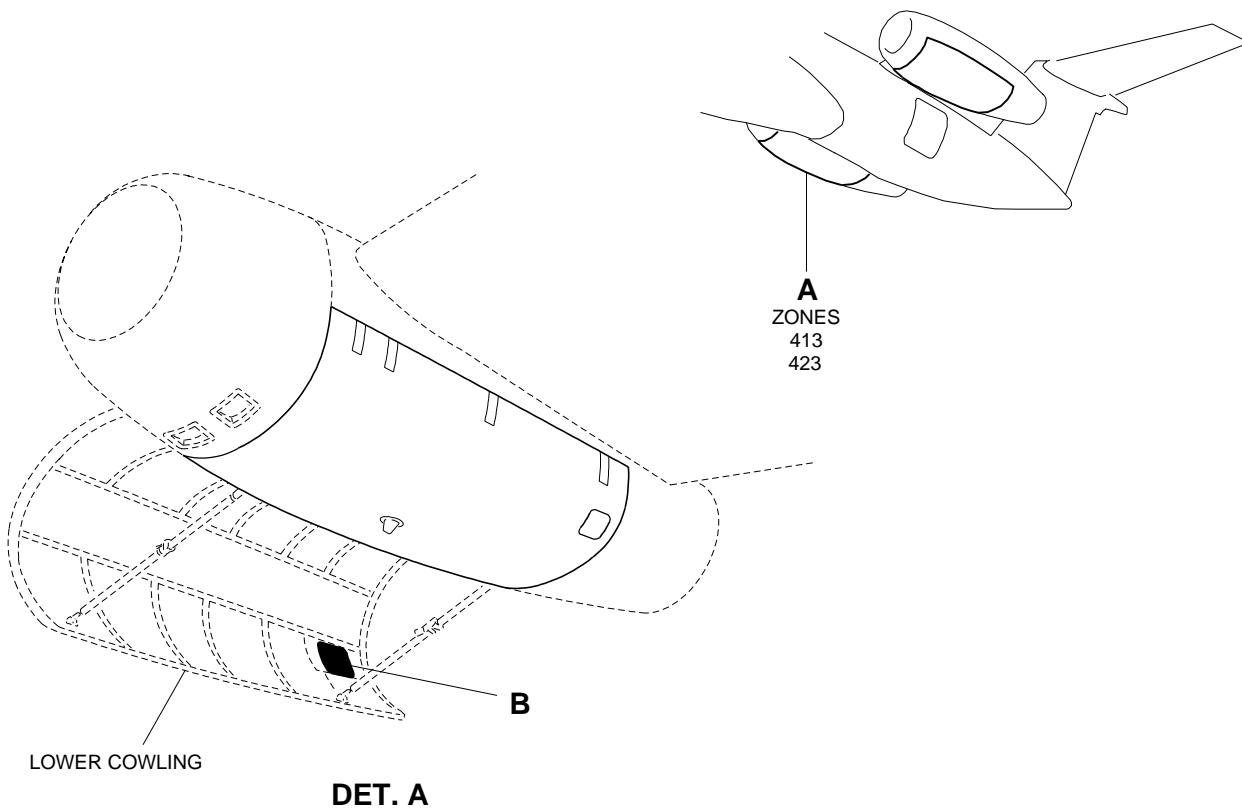
SUBTASK 842-004-A

- (1) Close the lower cowling. Refer to ([AMM TASK 71-12-01-400-801-A/400](#)).

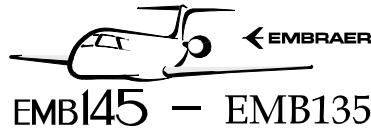
EFFECTIVITY: ALL

Cowling Relief Door - Inspection

Figure 603



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TASK 71-10-00-200-804-A

EFFECTIVITY: ALL

5. COWLING INBOARD/OUTBOARD ATTACHMENT AND SURROUNDING STRUCTURE - INSPECTION

A. General

- (1) Obey the instructions below to inspect the cowling inboard/outboard attachment and surrounding structure.

B. References

REFERENCE	DESIGNATION
AMM TASK 71-12-01-000-801-A/400	ENGINE LOWER COWLING - OPENING
AMM TASK 71-12-01-400-801-A/400	ENGINE LOWER COWLING - CLOSING

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
410		LH Powerplant
420		RH Powerplant

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the engine	01

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
01	Does the task	On the powerplant

I. Preparation

SUBTASK 841-005-A

- (1) Open the engine lower cowling (LH or RH). Refer to (AMM TASK 71-12-01-000-801-A/400).



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- J. Inspect (Detailed Inspection) Cowling Inboard/Outboard Attachment and Surrounding Structure ([Figure 604](#))

SUBTASK 220-002-A

- (1) Inspect the inboard attachments - latches, keepers, pip pins, tie rods, and surrounding structure for damage, failure, or other problem.
- (2) Inspect the outboard attachments - hinges, pins, and surrounding structure for damage, failure, or other problems.
- (3) Make sure the attachments are tightened.

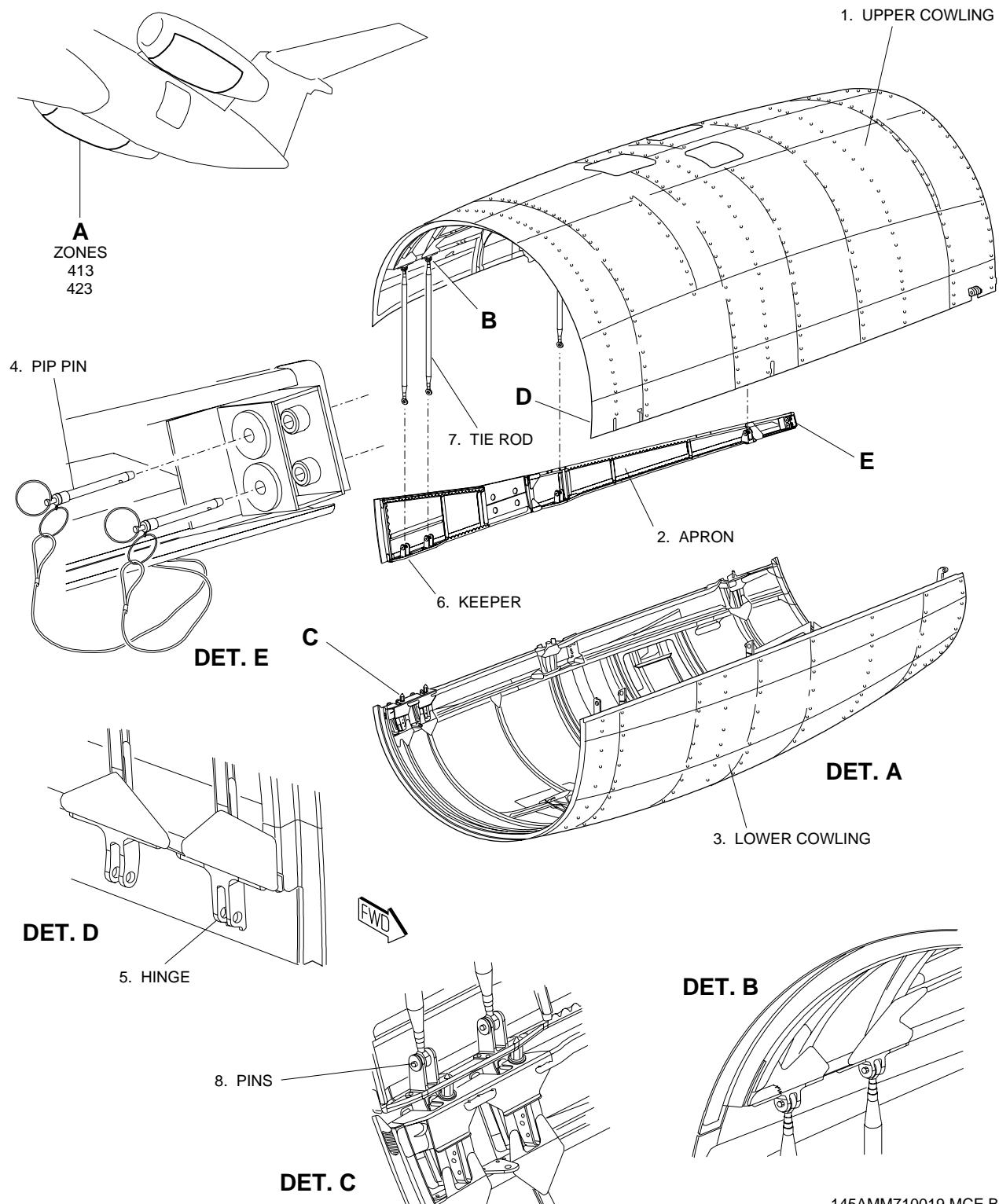
- K. Follow-on

SUBTASK 842-005-A

- (1) Close the lower cowling. Refer to ([AMM TASK 71-12-01-400-801-A/400](#)).

EFFECTIVITY: ALL

Cowling Inboard/Outboard Attachment and Surrounding Structure - Inspection
Figure 604



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