



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

**HORIZONTAL STABILIZER TO VERTICAL STABILIZER ATTACHMENT - INTERNAL - INSPECTION/
CHECK**

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do the visual inspection of the empennage for general condition.
- B. Related Zone: 331/332/333/337.
- C. (Applicable to EMB-145 (ALL) models) Zone Boundaries: STA X = 27440.8 thru STA X = 28236.3.
(Applicable to EMB-135 (ALL) models) Zone Boundaries: STA X = 23900.7 thru STA X = 24696.2.
- D. 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
05-20-65-200-801-A	HORIZONTAL STABILIZER TO VERTICAL STABILIZER ATTACHMENT - INTERNAL GENERAL VISUAL INSPECTION	ALL
05-20-65-200-803-A ♦	EMPPENNAGE - VERTICAL STABILIZER FAIRINGS DORSAL FIN LEADING EDGE AND STABILIZER ATTACHMENT TO TAIL FIN - INTERNAL GENERAL VISUAL IN- SPECTION	ALL



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TASK 05-20-65-200-801-A

EFFECTIVITY: ALL

2. HORIZONTAL STABILIZER TO VERTICAL STABILIZER ATTACHMENT - INTERNAL GENERAL VISUAL INSPECTION

A. General

- (1) This task gives instructions to do the internal general visual inspection (GVI) of horizontal stabilizer, at zone 337 and 321, within a touching distance of the items examined.
- (2) The function of the internal general visual inspection (GVI) is to find damage, failure, or irregular conditions that can be easily seen.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
321	321EL	Stabilizer center section
337	337AZ	Horizontal stabilizer
337	337BZ	Horizontal stabilizer
337	337CZ	Horizontal stabilizer

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Standard	Ladder	To get access to the inspection area	
Standard	Flashlight	To make the inspection of the area easier	

E. Auxiliary Items

Not Applicable

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. Preparation ([Figure 601](#))

SUBTASK 841-002-A

WARNING: MAKE SURE THAT THE ELEVATOR IS NOT OPERATED ACCIDENTALLY.
AN ACCIDENTAL OPERATION OF THE ELEVATOR CAN CAUSE INJURY TO PERSONS.

- (1) Put the ladder in position.
- (2) Open access panels 321EL, 337AZ, 337BZ and 337CZ, as applicable to aircraft configuration. Refer to AMM MPP 06-42-00/100([Figure 601](#)).

J. Internal General Visual Inspection ([Figure 602](#))

SUBTASK 212-002-A

- (1) Examine the interior of the zone for loose rivets, skin deformation, nicks, cracks, dents, scratches, gouges, creases, erosion, corrosion, deteriorated protective treatment, foreign objects, and bonding jumper condition ([Figure 602](#)).
- (2) Examine the interior of the zone for leakage on the skin, signs of friction, tension, broken strands, and signs of overheating.

K. Follow-on

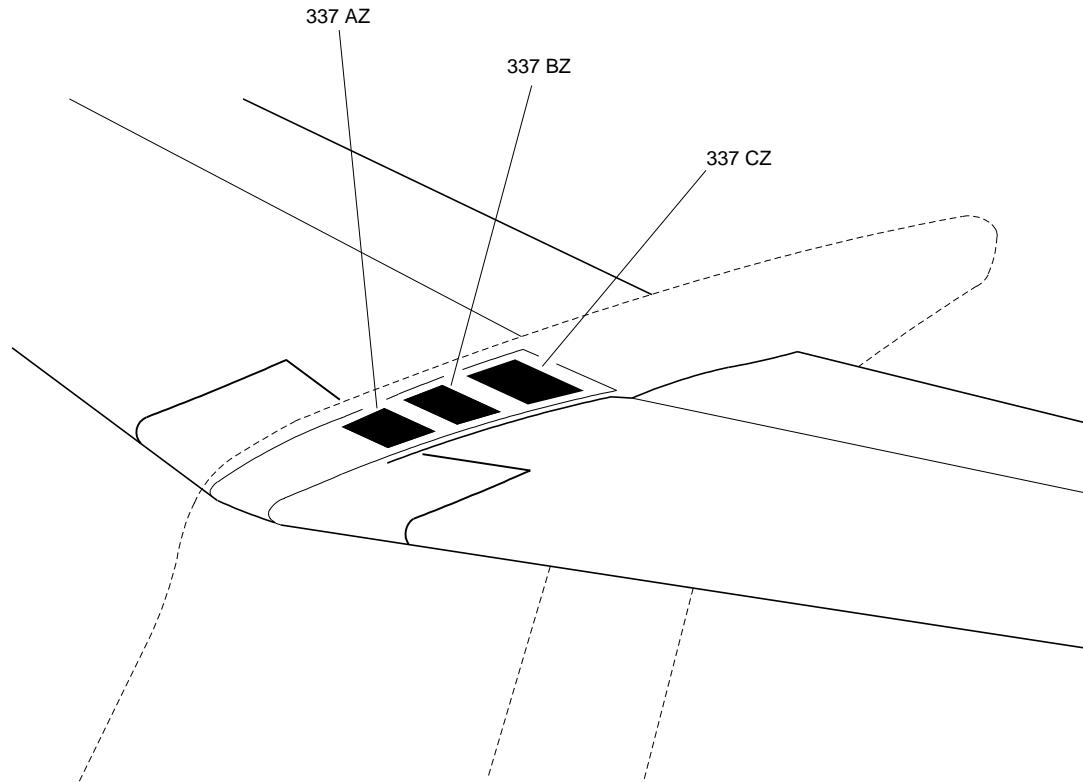
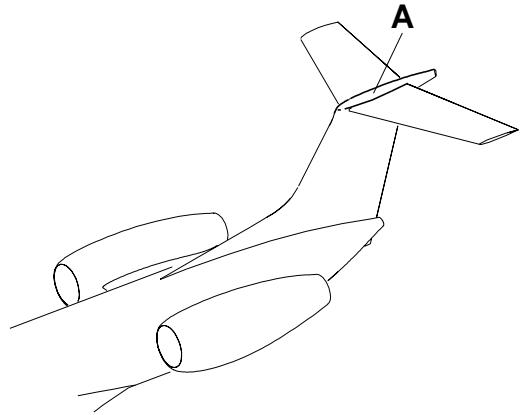
SUBTASK 842-002-A

- (1) Close access panels 321EL, 337AZ, 337BZ and 337CZ, as applicable to aircraft configuration. Refer to AMM MPP 06-42-00/100.
- (2) Remove the ladder.

EFFECTIVITY: ALL

Horizontal Stabilizer to Vertical Stabilizer Attachment - Access Panels

Figure 601



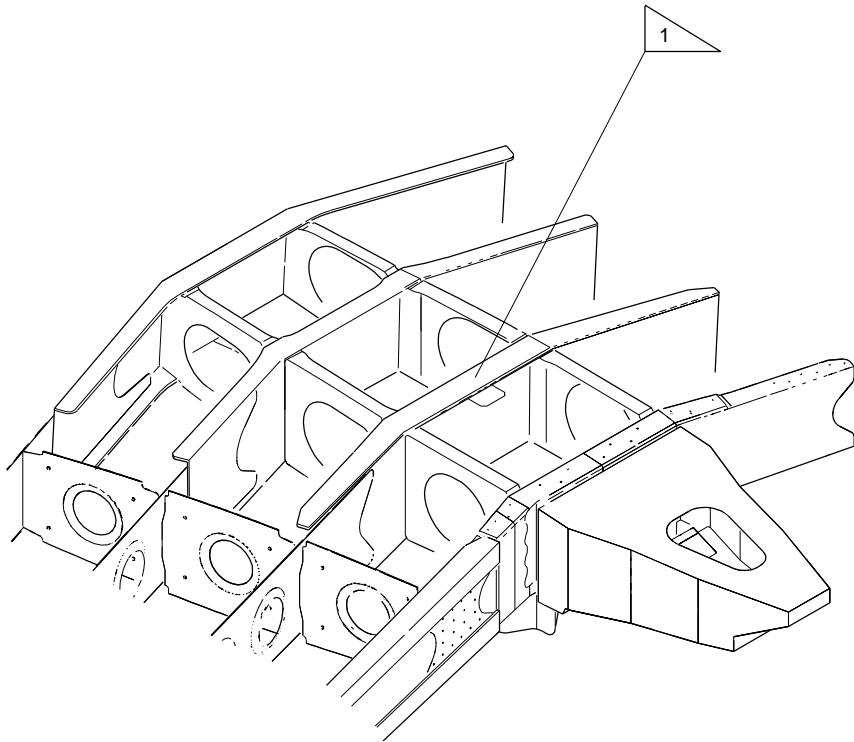
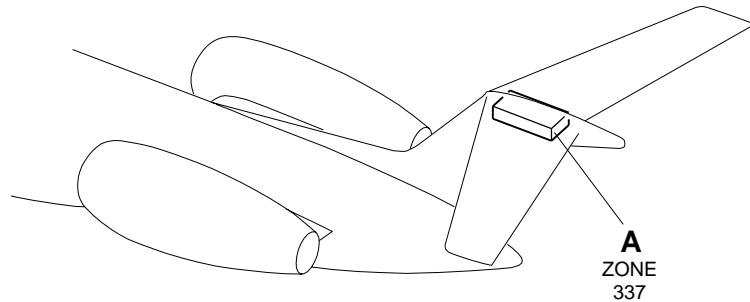
DET. A

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EFFECTIVITY: ALL

Horizontal Stabilizer to Vertical Stabilizer Attachment - Internal General Visual Inspection

Figure 602



INTERNAL VISUAL INSPECTION OF THE HORIZONTAL STABILIZER TO
VERTICAL STABILIZER ATTACHMENT FOR GENERAL CONDITIONS.

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TASK 05-20-65-200-803-A

EFFECTIVITY: ALL

3. EMPENNAGE - VERTICAL STABILIZER FAIRINGS DORSAL FIN LEADING EDGE AND STABILIZER ATTACHMENT TO TAIL FIN - INTERNAL GENERAL VISUAL INSPECTION

A. General

- (1) This task gives instructions to do SMRD Zonal Task 55-Z321-214-001-A00.
- (2) You must do the internal general visual inspection (GVI) of the empennage, at zone 321/322/323/337, and external zone 337, within a touching distance of the items examined.
- (3) The function of the internal general visual inspection (GVI) is to find damage, failure, or irregular conditions that can be easily seen.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-
AMM TASK 55-34-00-000-801-A/400	DORSAL FIN - REMOVAL
AMM TASK 55-34-00-400-801-A/400	DORSAL FIN - INSTALLATION
AMM TASK 55-35-00-000-801-A/400	VERTICAL-STABILIZER LEADING EDGE - REMOVAL
AMM TASK 55-35-00-400-801-A/400	VERTICAL-STABILIZER LEADING EDGE - INSTALLATION
AMM TASK 55-36-00-000-801-A/400	TAIL BOOM - REMOVAL
AMM TASK 55-36-00-400-801-A/400	TAIL BOOM - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
321	321EL	Tail Boom
321	321FL	Tail Boom
337	337AZ	Horizontal stabilizer
337	337BZ	Horizontal stabilizer
337	337CZ	Horizontal stabilizer

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Standard	Ladder	To get access to the inspection area	
Standard	Flashlight	To make the inspection of the area easier	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Horizontal stabilizer

I. Preparation ([Figure 603](#))

SUBTASK 841-003-A

WARNING: MAKE SURE THAT THE ELEVATOR IS NOT OPERATED ACCIDENTALLY.
AN ACCIDENTAL OPERATION OF THE ELEVATOR CAN CAUSE INJURY TO PERSONS.

- (1) Put the ladder in position.
- (2) Remove the access panels 321EL and 321FL (AMM MPP 06-42-00/100) ([AMM TASK 55-36-00-000-801-A/400](#)).
- (3) Open access panels 337AZ, 337BZ and 337CZ (AMM MPP 06-42-00/100) ([Figure 603](#)).
- (4) Remove the Dorsal Fin ([AMM TASK 55-34-00-000-801-A/400](#)).
- (5) Remove the Vertical-Stabilizer Leading Edge ([AMM TASK 55-35-00-000-801-A/400](#)).

J. Internal General Visual Inspection ([Figure 604](#)) ([Figure 605](#)) ([Figure 606](#)) ([Figure 607](#))

SUBTASK 212-003-A

- (1) Examine the the dorsal fin, the vertical-stabilizer leading edge and the front movable and rear movable fairings of vertical stabilizer for loose rivets, skin deformation, nicks, cracks, dents, scratches, gouges, creases, erosion, corrosion, deteriorated protective treatment, foreign objects, and bonding jumper condition ([Figure 604](#) and [Figure 605](#)).
- (2) Examine the interior of the zone for leakage on the skin, signs of friction, tension, broken strands, and signs of overheating.
- (3) Examine the bleed air ducts, the anti-icing valve, and thermal switch for cracks, crushing, signs of deformation, deterioration, friction, and leakage ([Figure 606](#) and [Figure 607](#)).

K. Follow-on

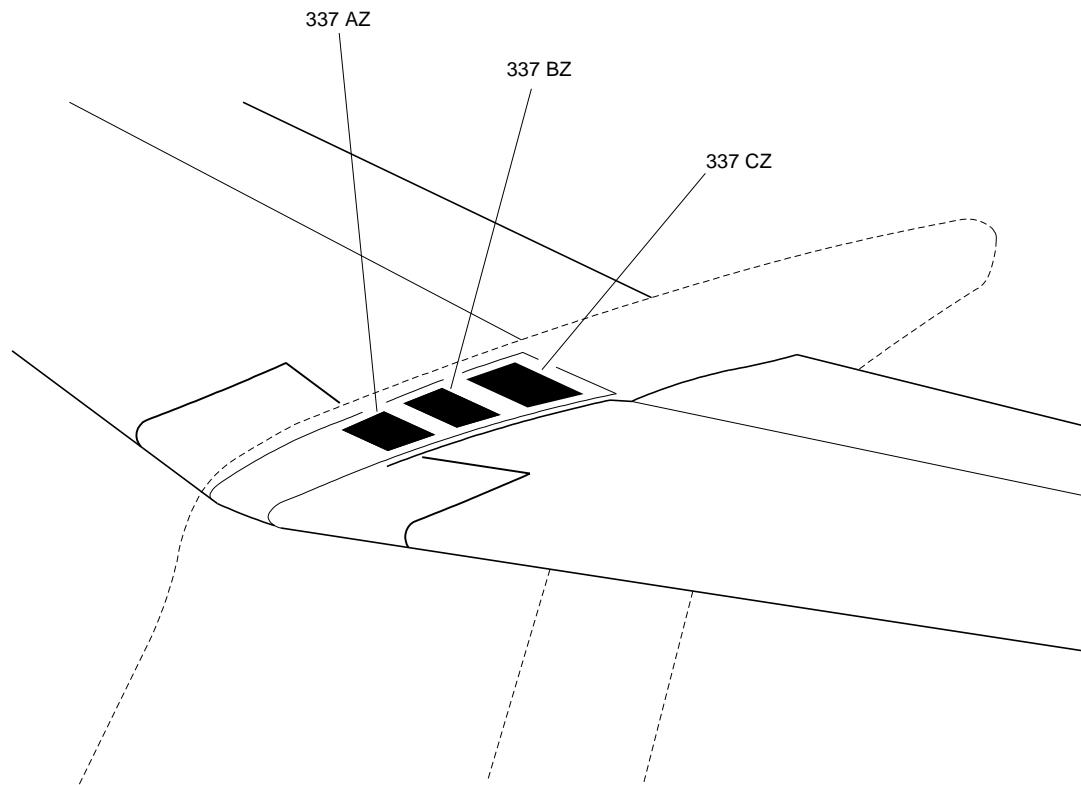
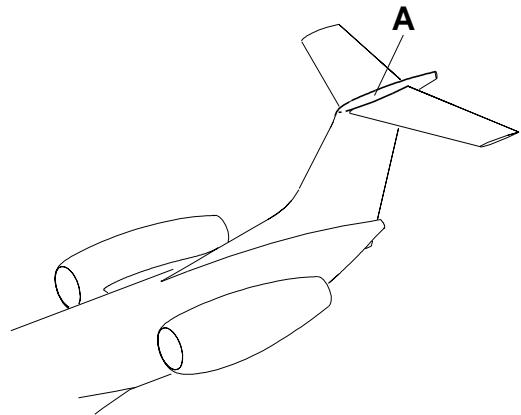
SUBTASK 842-003-A

- (1) Install the Vertical-Stabilizer Leading Edge ([AMM TASK 55-35-00-400-801-A/400](#)).
- (2) Install the Dorsal Fin ([AMM TASK 55-34-00-400-801-A/400](#)).
- (3) Close access panels 337AZ, 337BZ and 337CZ (AMM MPP 06-42-00/100).
- (4) Install the access panels 321EL and 321FL (AMM MPP 06-42-00/100) ([AMM TASK 55-36-00-400-801-A/400](#)).
- (5) Remove the ladder.

EFFECTIVITY: ALL

Horizontal Stabilizer to Vertical Stabilizer Attachment - Access Panels

Figure 603



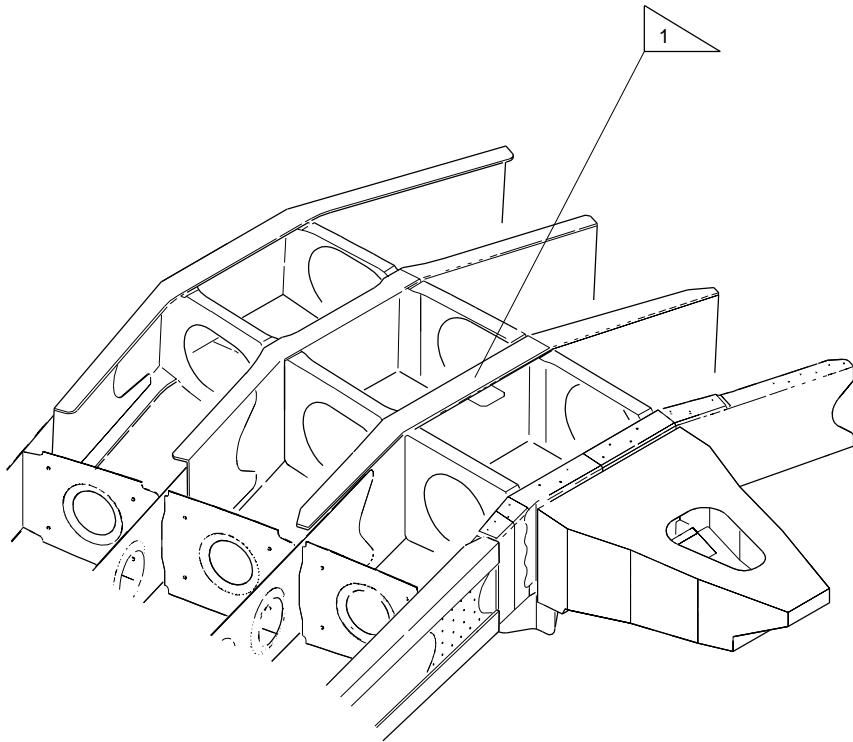
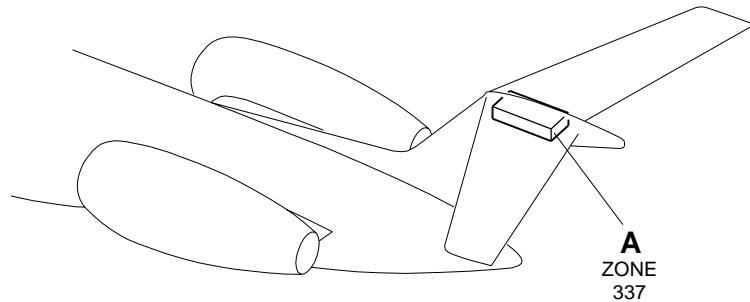
DET. A

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EFFECTIVITY: ALL

Horizontal Stabilizer to Vertical Stabilizer Attachment - Internal General Visual Inspection

Figure 604



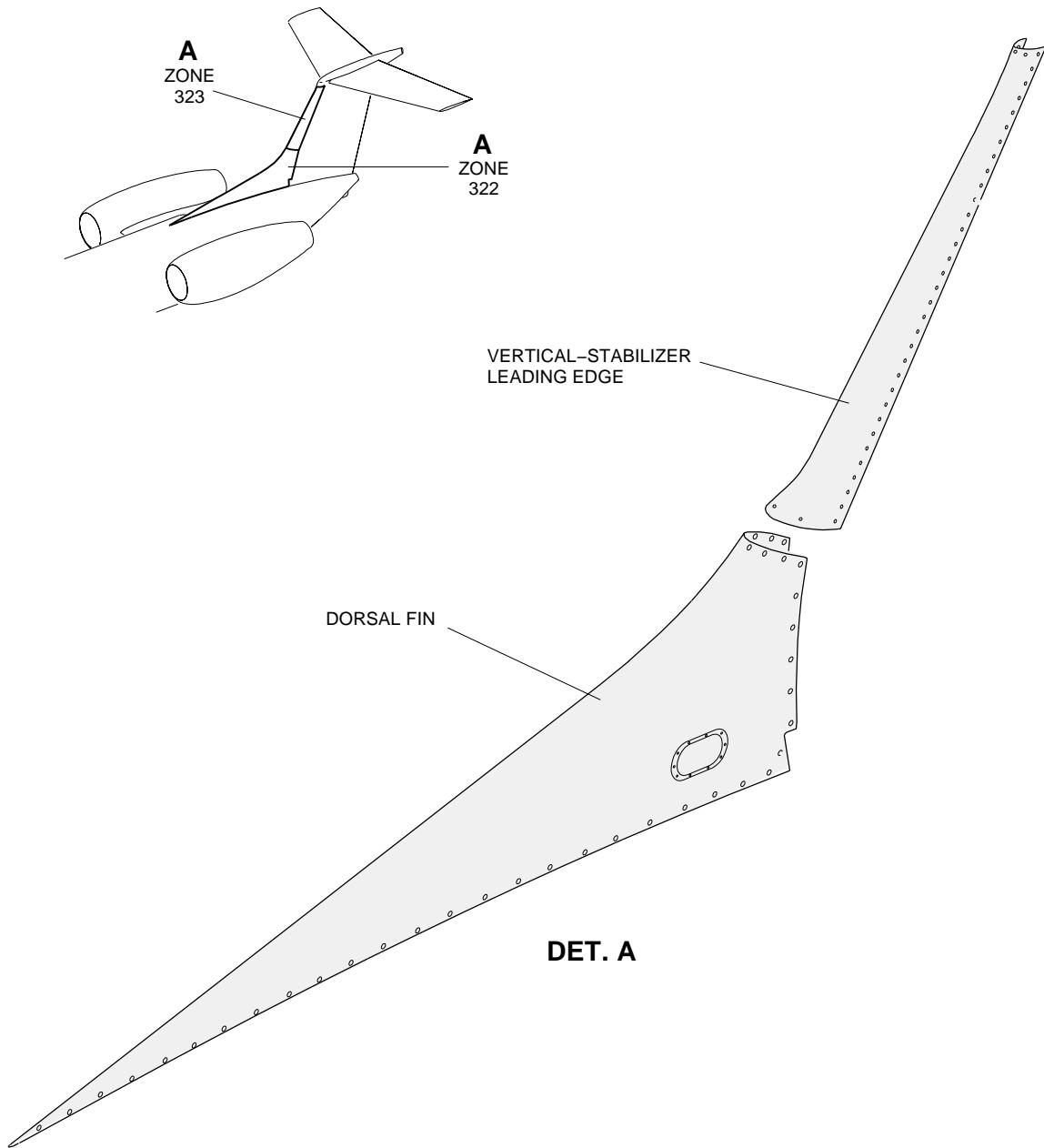
INTERNAL VISUAL INSPECTION OF THE HORIZONTAL STABILIZER TO
VERTICAL STABILIZER ATTACHMENT FOR GENERAL CONDITIONS.

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EFFECTIVITY: ALL

Vertical Stabilizer - General Visual Inspection

Figure 605

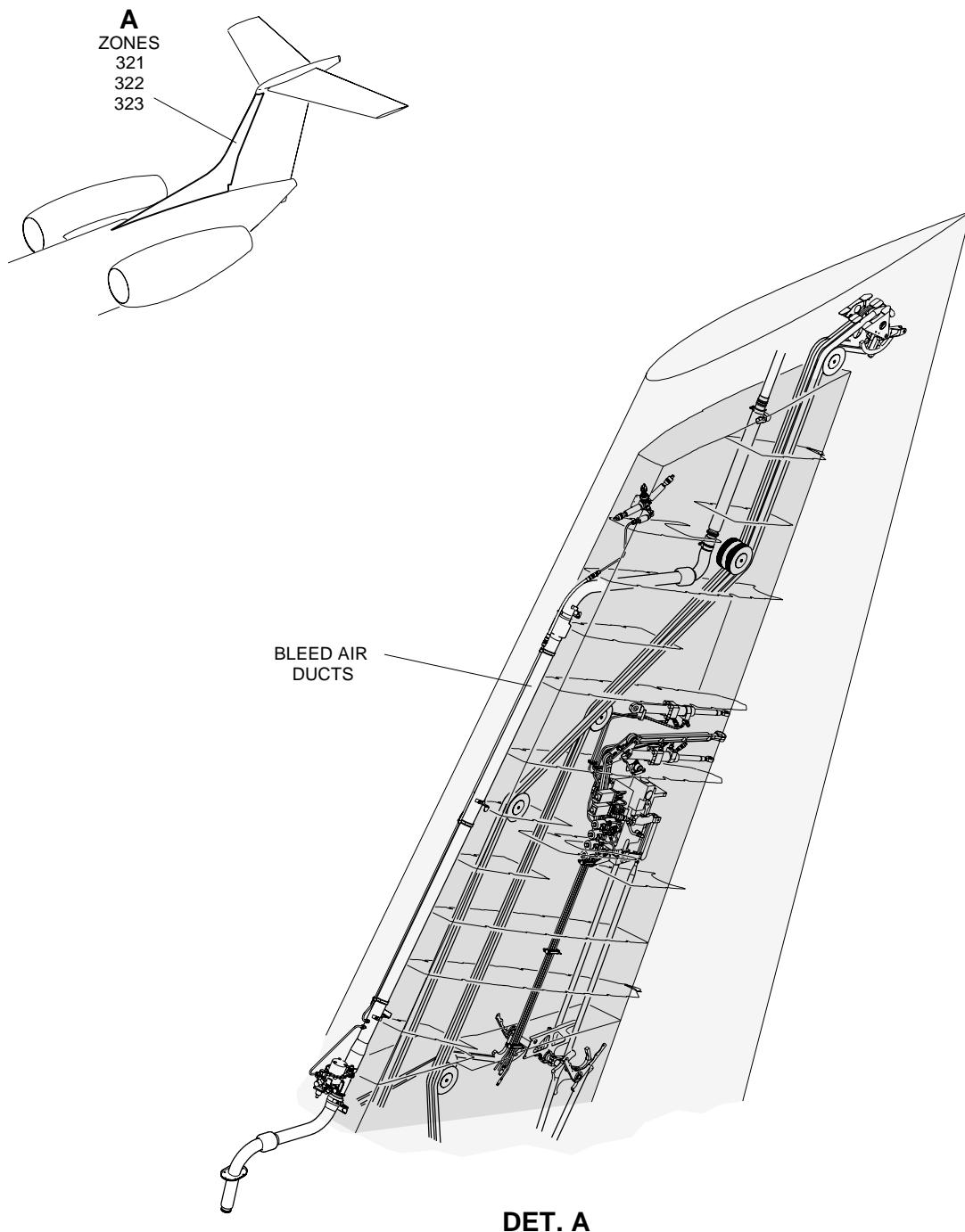


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EFFECTIVITY: ALL

Bleed Air Ducts - General Visual Inspection

Figure 606

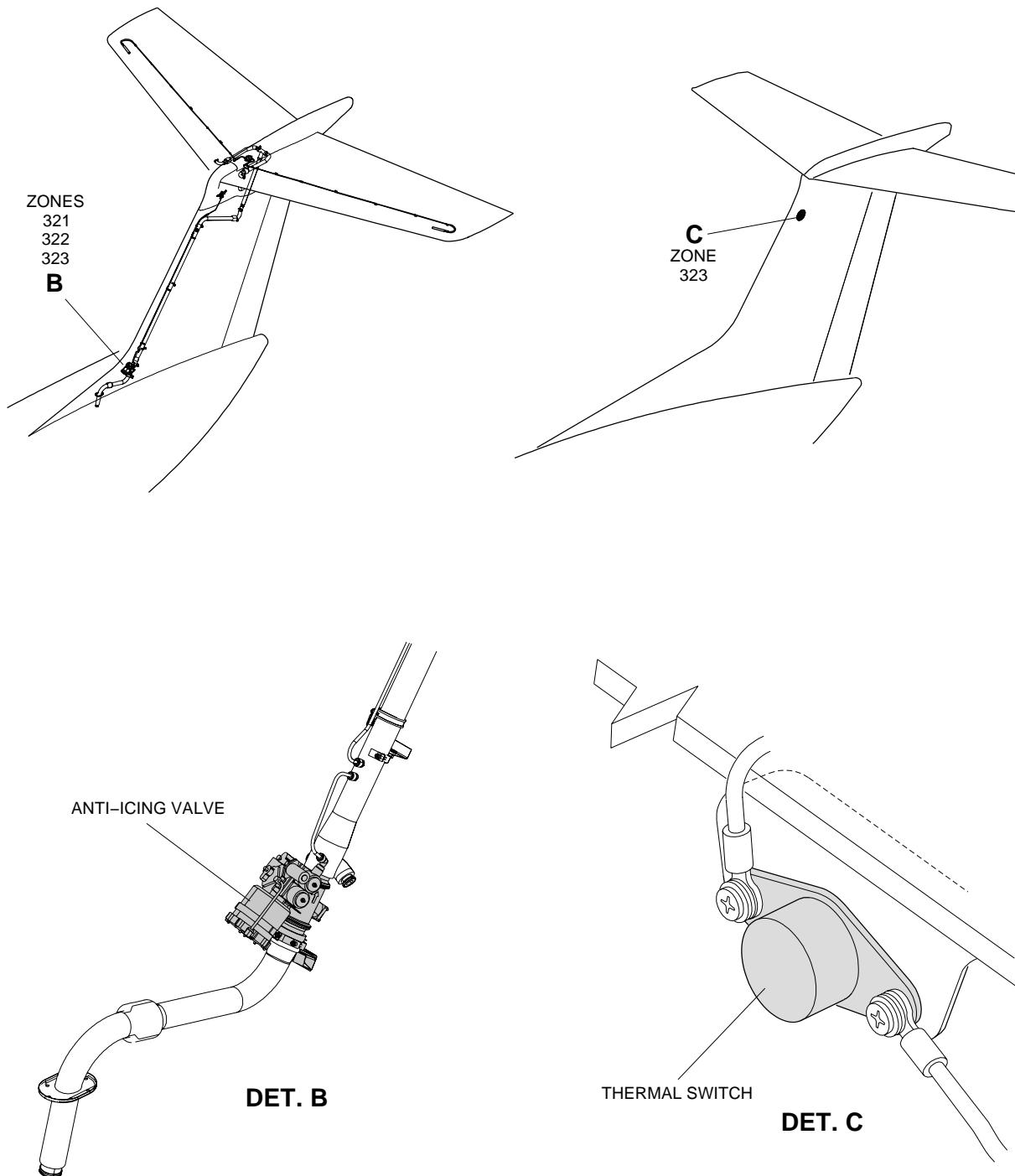


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EFFECTIVITY: ALL

Anti-Icing Valve And Thermal Switch - General Visual Inspection

Figure 607



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