



AIRCRAFT
MAINTENANCE MANUAL

VERTICAL STABILIZER - EXTERNAL - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do a visual inspection on vertical stabilizer and rudders for general condition.
- B. Related Zones: 321/322/323/324/325.
- C. (Applicable to EMB-145 () models) Zone Boundaries: STA X = 24389.5 thru STA X = 26386.7 (SPAR I thru SPAR II).
(Applicable to EMB-135 () models) Zone Boundaries: STA X = 20844.5 thru STA X = 22841.7 (SPAR I thru SPAR II).
- 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
05-20-58-200-801-A ♦	VERTICAL STABILIZER - EXTERNAL GENERAL VISUAL INSPECTION	ALL
05-20-58-200-803-A ♦	VERTICAL STABILIZER AND RUDDERS - EXTERNAL GENERAL VISUAL INSPEC- TION	ALL



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TASK 05-20-58-200-801-A

EFFECTIVITY: ALL

2. VERTICAL STABILIZER - EXTERNAL GENERAL VISUAL INSPECTION

A. General

- (1) This task gives instructions to do SMRD Zonal Task 55-Z324-213-001-A00.
- (2) You must do the external general visual inspection (GVI) of the vertical stabilizer and rudders, at zones 324/325, within a touching distance of the items examined.
- (3) The function of the external visual inspection (GVI) is to find damage, failure, or irregular conditions that can be easily seen.

B. References

REFERENCE	DESIGNATION
AMM TASK 27-20-03-000-801-A/400	RUDDER I - REMOVAL
AMM TASK 27-20-03-400-801-A/400	RUDDER I - INSTALLATION

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Standard	Ladder	To get access to the inspection area	

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	Vertical stabilizer

I. Preparation

SUBTASK 841-002-A

WARNING: MAKE SURE THAT NO RUDDER OR ELEVATOR TASKS ARE DONE AT THE TIME OF THIS INSPECTION.

- (1) Put the ladder in position.
- (2) Remove rudder I ([AMM TASK 27-20-03-000-801-A/400](#)).



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J. External General Visual Inspection ([Figure 601](#))

SUBTASK 212-002-A

- (1) Examine the vertical stabilizer zone and rudders for loose rivets, nicks, cracks, dents, skin deformation, fillet sealant condition, erosion, corrosion, deteriorated protective treatment ([Figure 601](#)).
- (2) Examine the rivets that attach the skin to the ribs and spars.
- (3) Examine the trailing edge ribs ([Figure 601](#)).

K. Follow-on

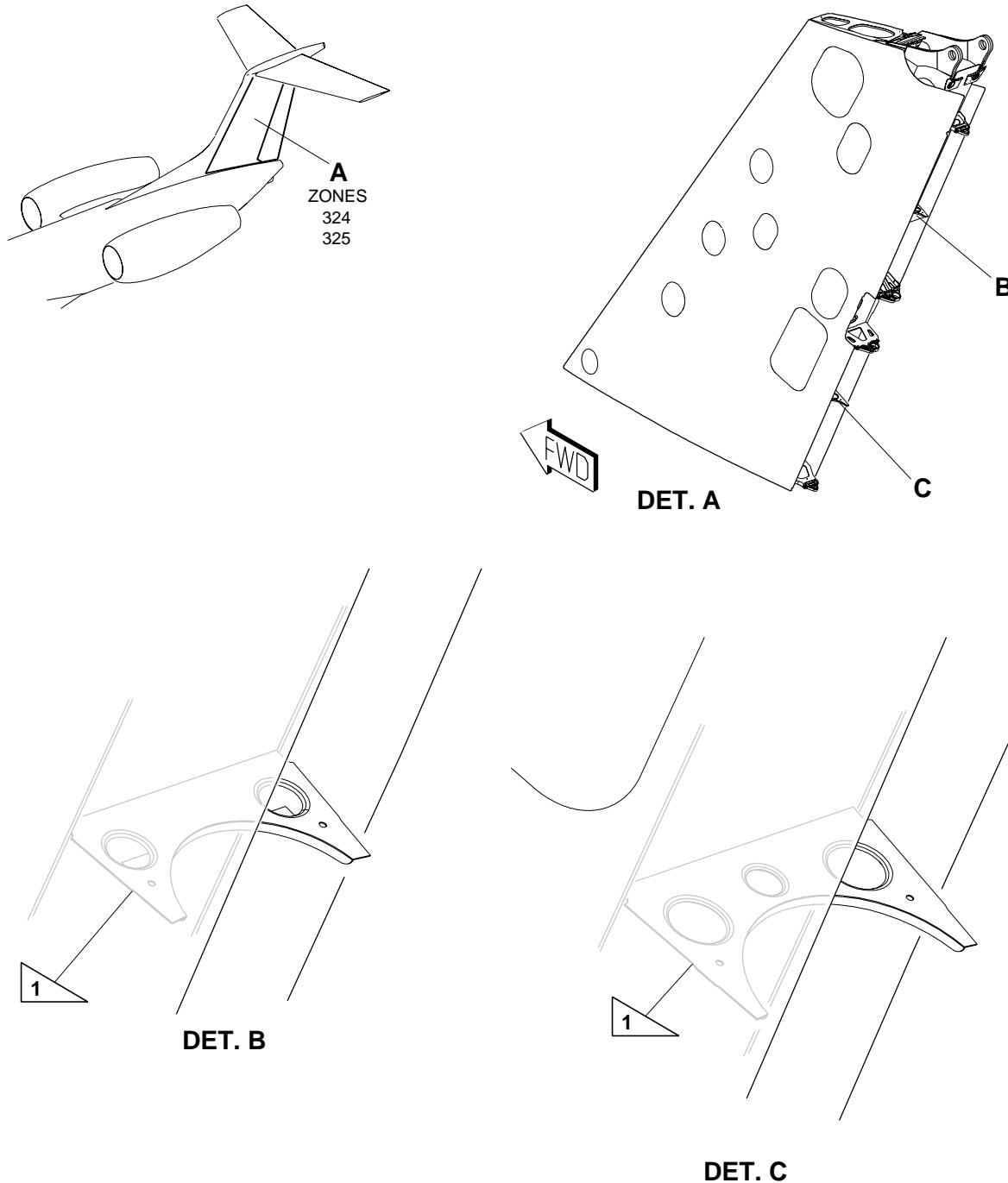
SUBTASK 842-002-A

- (1) Install rudder I ([AMM TASK 27-20-03-400-801-A/400](#)).
- (2) Remove the ladder.

EFFECTIVITY: ALL

Trailing Edge Ribs - External General Visual Inspection

Figure 601



1 EXTERNAL VISUAL INSPECTION OF THE TRAILING EDGE RIBS.

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TASK 05-20-58-200-803-A
EFFECTIVITY: ALL
3. VERTICAL STABILIZER AND RUDDERS - EXTERNAL GENERAL VISUAL INSPECTION
A. General

- (1) This task gives instructions to do SMRD Zonal Task 55-Z321-213-001-A00.
- (2) You must do the external general visual inspection (GVI) of the vertical stabilizer and rudders, at zones 321/322/323 within a touching distance of the items examined.
- (3) The function of the external visual inspection (GVI) is to find damage, failure, or irregular conditions that can be easily seen.

B. Zones and Accesses

Not Applicable

C. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Standard	Ladder	To get access to the inspection area	

D. Auxiliary Items

Not Applicable

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Vertical stabilizer

H. Preparation
SUBTASK 841-003-A

WARNING: MAKE SURE THAT NO RUDDER OR ELEVATOR TASKS ARE DONE AT THE TIME OF THIS INSPECTION.

- (1) Put the ladder in position.
- I. External General Visual Inspection ([Figure 602](#)) ([Figure 603](#))

SUBTASK 212-003-A

- (1) Examine the dorsal fin, the vertical-stabilizer leading edge and the front fixed, rear fixed, front movable, rear movable, RH/LH seal fairings of vertical stabilizer for loose rivets, nicks, cracks, dents, skin deformation, fillet sealant condition, erosion, corrosion, and deteriorated protective treatment.



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- (2) Examine the rudders zones for loose rivets, nicks, cracks, dents, skin deformation, fillet sealant condition, erosion, corrosion, deteriorated protective treatment

J. Follow-on

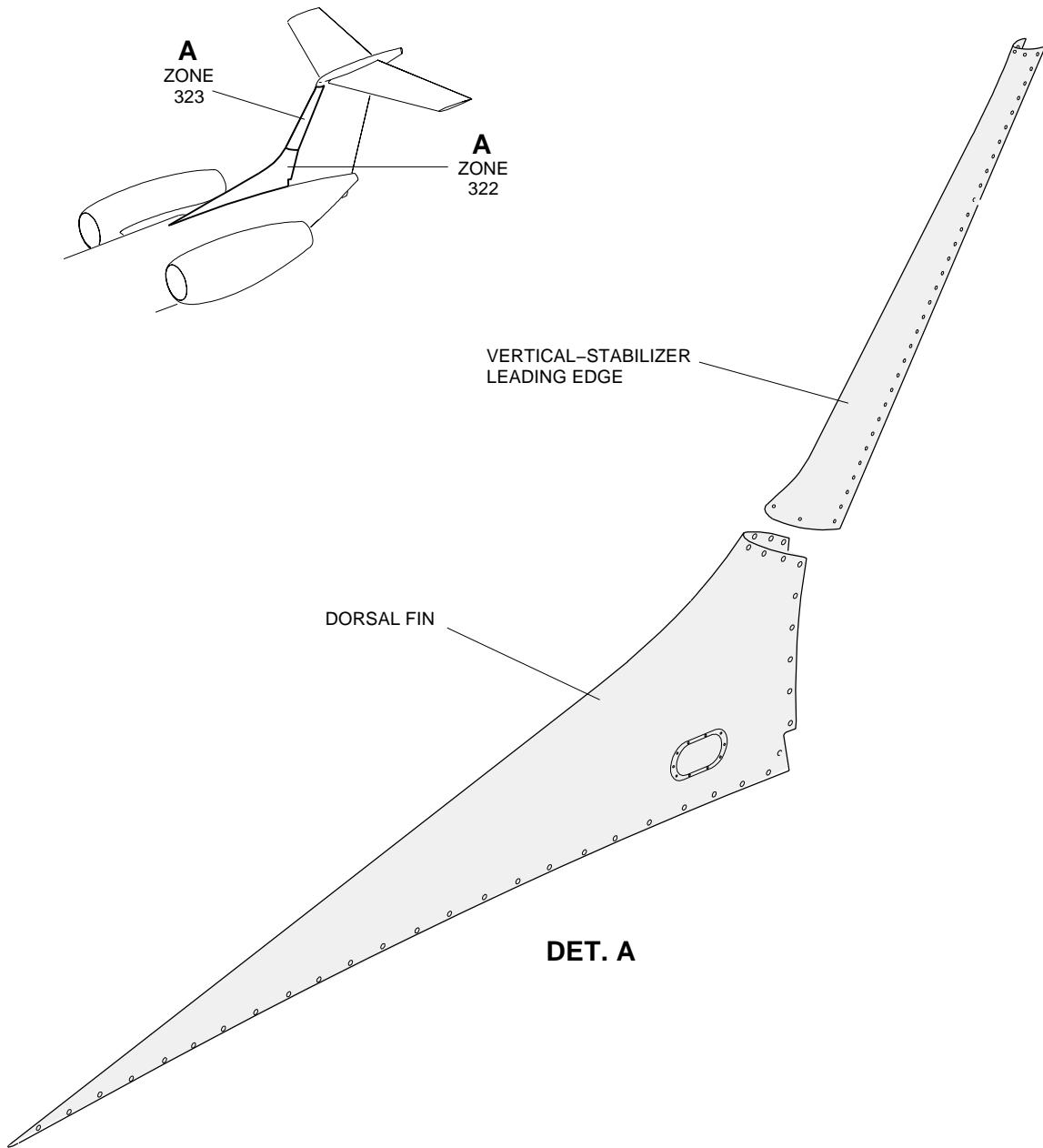
SUBTASK 842-003-A

- (1) Remove the ladder.

EFFECTIVITY: ALL

Vertical Stabilizer - Dorsal Fin and Leading Edge - External General Visual Inspection

Figure 602

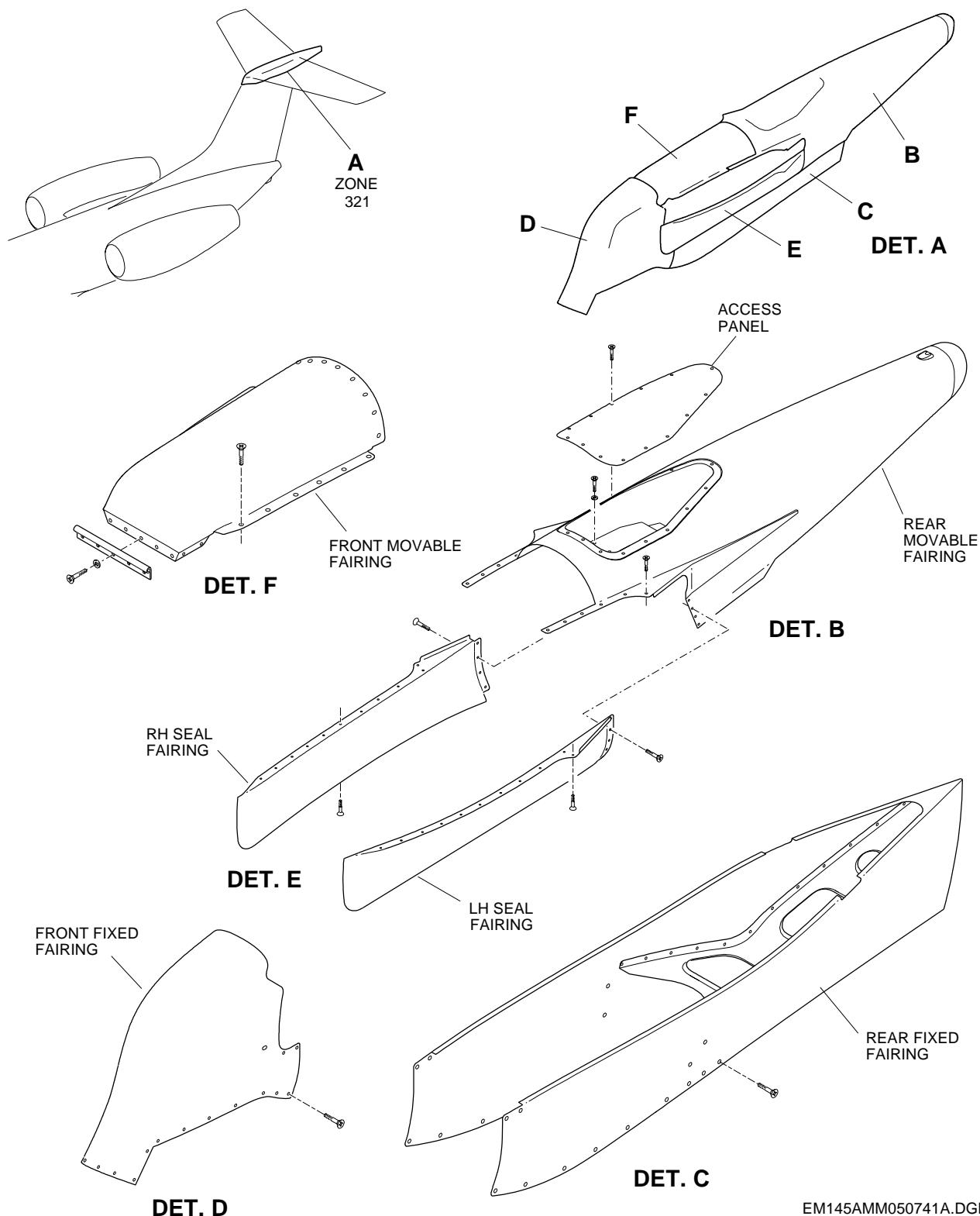


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EFFECTIVITY: ALL

Vertical Stabilizer Fairings - External General Visual Inspection

Figure 603



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