



AIRCRAFT MAINTENANCE MANUAL

VERTICAL STABILIZER - INTERNAL - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do the visual inspection of the vertical stabilizer, area between spars I/II and II/III, for general condition.
- B. Related Zones: 324/325.
- C. (Applicable to all EMB-145 aircraft models) Zone Boundaries: STA X = 25149.8 thru STA X = 26303.8 (SPAR I thru SPAR III).
(Applicable to all EMB-135 aircraft models) Zone Boundaries: STA X = 20850.0 thru STA X = 22764.26 (SPAR I thru SPAR III).
- 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 |
|----------------------|--|-------------|
| 05-20-59-200-801-A ♦ | VERTICAL STABILIZER - AREA BETWEEN SPARS I/II AND II/III- INTERNAL GENERAL VISUAL INSPECTION | ALL |

TASK 05-20-59-200-801-A

EFFECTIVITY: ALL

2. VERTICAL STABILIZER - AREA BETWEEN SPARS I/II AND II/III- INTERNAL GENERAL VISUAL INSPECTION

A. General

- (1) This procedure obeys the EWIS ICA requirement.
- (2) This task gives instructions to do SMRD Zonal Task 55-Z324-214-001-A00.
- (3) You must do the internal general visual inspection (GVI) of vertical stabilizer, area between spars I/II and II/III, in zones 324/325, at a distance from which you can touch the items that you will examine.
- (4) The function of the internal visual inspection (GVI) is to find damage, failure, or irregular conditions that can be easily seen.
- (5) Apart from any specific targets defined in the Zonal Inspection task, a General Visual Inspection (GVI) must be conducted of the entire zone specified and includes all installations, components and structures. Refer to INTRODUCTION for zonal inspection criteria.

B. References

| <i>REFERENCE</i> | <i>DESIGNATION</i> |
|----------------------|--------------------|
| AMM MPP 06-42-00/100 | - |
| WM 20-22-00 | - |

C. Zones and Accesses

| <i>ZONE</i> | <i>PANEL/DOOR</i> | <i>LOCATION</i> |
|-------------|-------------------|---------------------|
| 322 | | Dorsal fin |
| 324 | 324AL | Vertical stabilizer |
| 324 | 324BL | Vertical stabilizer |
| 324 | 324CL | Vertical stabilizer |
| 324 | 324DL | Vertical stabilizer |
| 324 | 324EL | Vertical stabilizer |
| 324 | 324FR | Vertical stabilizer |
| 325 | 325AL | Vertical stabilizer |
| 325 | 325BL | Vertical stabilizer |
| 325 | 325CL | Vertical stabilizer |
| 325 | 325DL | Vertical stabilizer |
| 325 | 325EL | Vertical stabilizer |
| 325 | 325FL | Vertical stabilizer |
| 325 | 325FR | Vertical stabilizer |
| 325 | 325GR | Vertical stabilizer |



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(Continued)

| ZONE | PANEL/DOOR | LOCATION |
|------|------------|---------------------|
| 325 | 325HR | Vertical stabilizer |
| 325 | 325JR | Vertical stabilizer |
| 325 | 325KR | Vertical stabilizer |
| 325 | 325LR | Vertical 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 | Vertical stabilizer |

I. Preparation ([Figure 601](#))

SUBTASK 841-002-A

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

- (1) Put the ladder in position.
- (2) Open access panels 324AL, 324BL, 324CL, 325AL, 325DL, 325CL, 325BL, 324DL, 325EL, 325FL, 324EL, 325FR, 325HR, 325GR, 325JR, 325KR, 325LR, and 324FR (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, and foreign objects.
- (2) Examine the bleed air ducts, input rods on the rudder PCU, and control cables for cracks, crushing, signs of deformation, deterioration, friction, and leakage ([Figure 602](#)).



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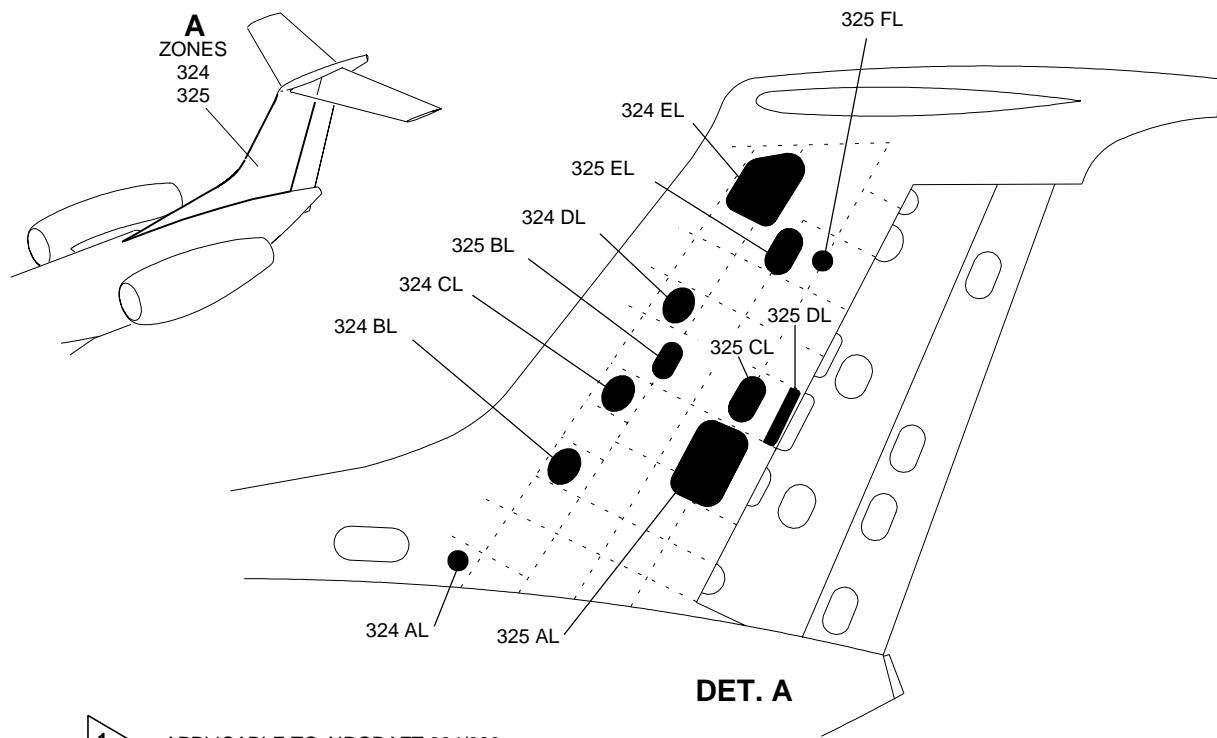
- (3) Examine the EWIS components for signs of damage, adequate installation, chafing and general condition. Refer to WM 20-22-00.

K. Follow-on

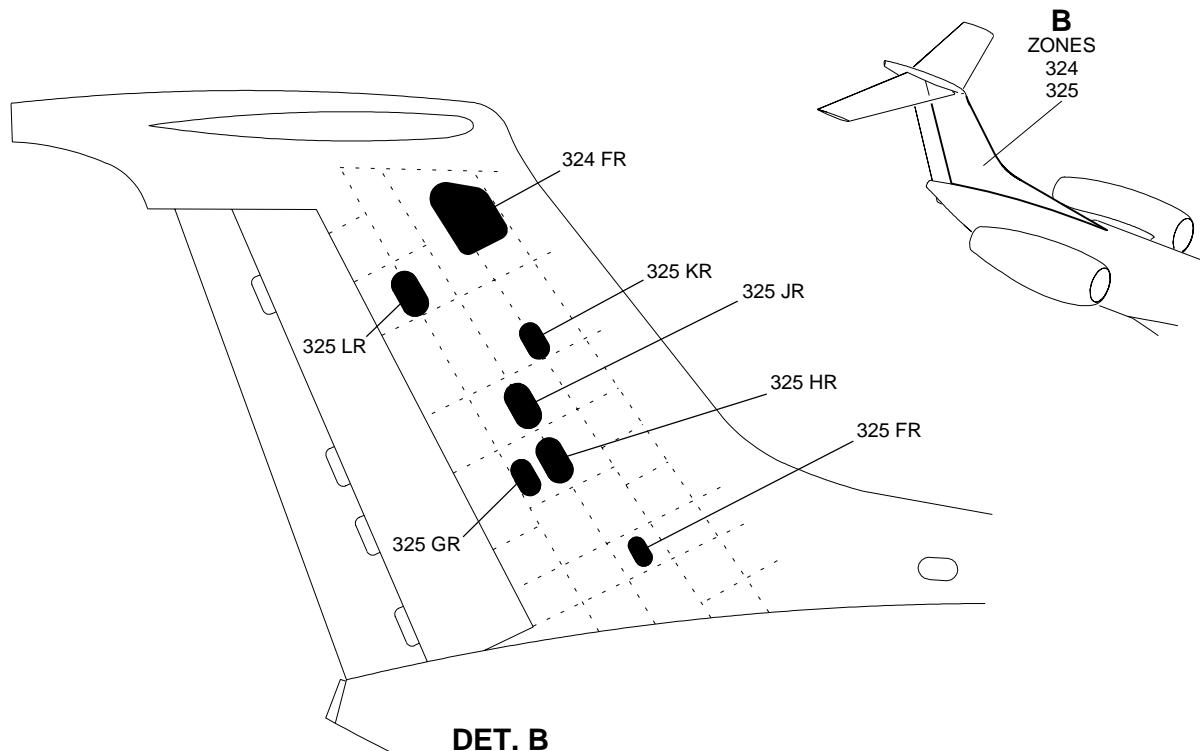
SUBTASK 842-002-A

- (1) Close access panels 324AL, 324BL, 324CL, 325AL, 325DL, 325CL, 325BL, 324DL, 325EL, 325FL, 324EL, 325FR, 325HR, 325GR, 325JR, 325KR, 325LR, and 324FR (AMM MPP 06-42-00/100).
- (2) Remove the ladder.

EFFECTIVITY: ALL
 Vertical Stabilizer - Access Panels
 Figure 601



 APPLICABLE TO AIRCRAFT 004/999

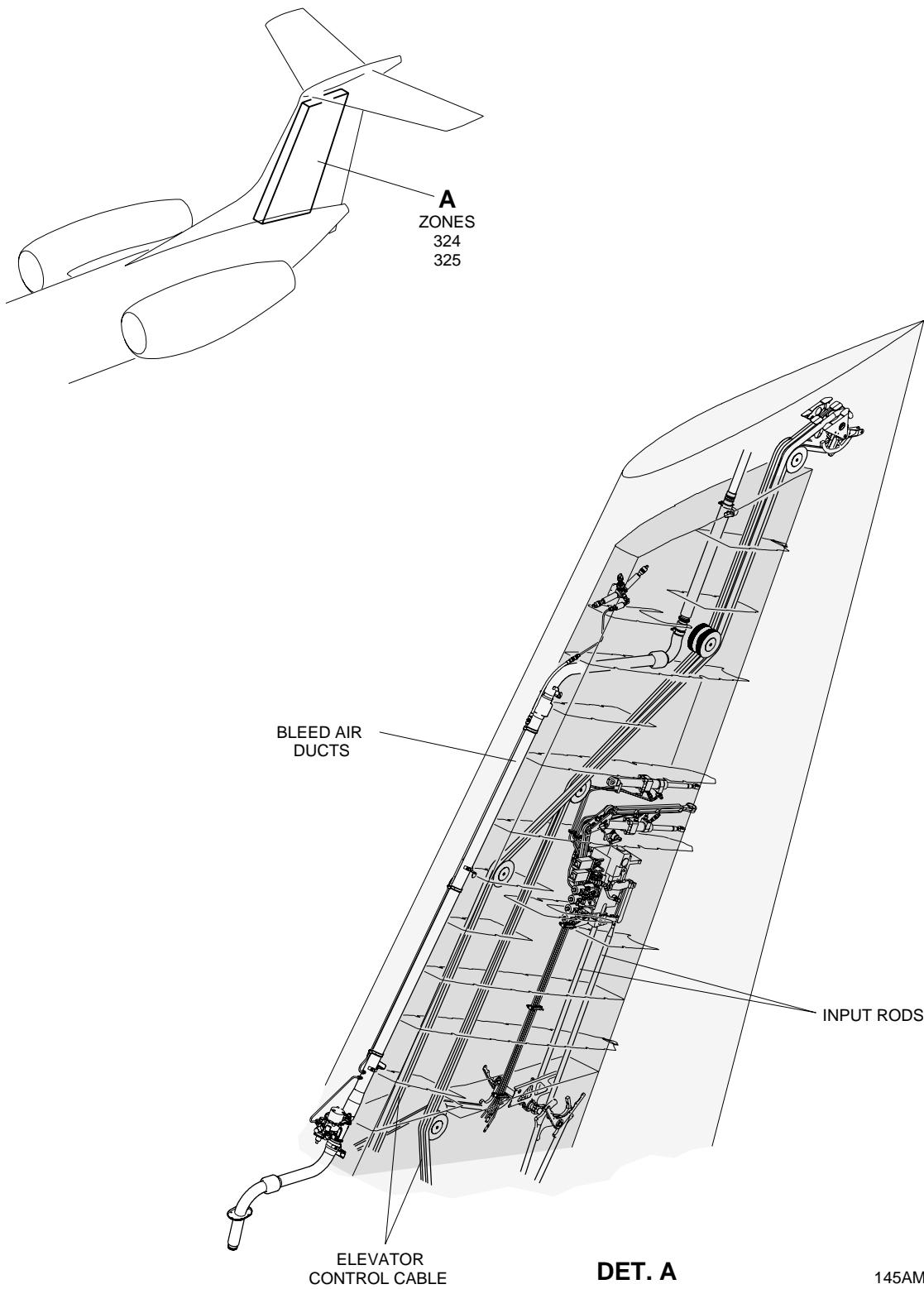


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EFFECTIVITY: ALL

Vertical Stabilizer - Internal General Visual Inspection

Figure 602


DET. A

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