



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

WING MIDDLE SECTION BETWEEN SPAR I AND SPAR II - INTERNAL - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do the visual inspection of the wing middle section for general condition.
- B. Related Zones: 541/641.
- C. Zone Boundaries: STA Y = -3815.00 (rib 9) thru STA YA = -7792.08 (rib 19) and spar I and 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
05-20-87-200-801-A ♦	WING MIDDLE SECTION BETWEEN SPAR I AND SPAR II - INTERNAL GENER- AL VISUAL INSPECTION	ALL



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TASK 05-20-87-200-801-A

EFFECTIVITY: ALL

2. WING MIDDLE SECTION BETWEEN SPAR I AND SPAR II - INTERNAL GENERAL VISUAL INSPECTION

A. General

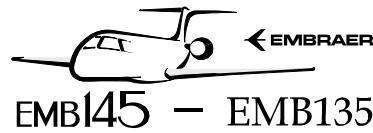
- (1) This procedure obeys the EWIS ICA requirement.
- (2) This task gives instructions to do SMRD Zonal Task 57-Z541-214-001-A00.
- (3) You must do the internal general visual inspection (GVI) of wing, at zones 541/641, within a touching distance of the items examined.
- (4) The function of the internal general 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 AMM Introduction for zonal inspection criteria.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-44-00/100	- COMPONENT LOCATION
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 12-11-01-600-802-A/300	FUEL-TANK PRESSURE DEFUELING - SERVICING
AMM TASK 28-11-01-000-801-A/400	FUEL-TANK ACCESS PANELS - REMOVAL
AMM TASK 28-11-01-000-802-A/400	FUEL-TANK ACCESS PANELS - REMOVAL
AMM TASK 28-11-01-400-801-A/400	FUEL-TANK ACCESS PANELS - INSTALLATION
AMM TASK 28-11-01-400-802-A/400	FUEL-TANK ACCESS PANELS - INSTALLATION
WM 20-22-00	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
541	541AB	Wing
541	541BB	Wing
541	541CB	Wing
541	541DB	Wing
541	541EB	Wing
541	541GB	Wing
541	541FT	Wing
641	641AB	Wing
641	641BB	Wing
641	641CB	Wing



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(Continued)

ZONE	PANEL/DOOR	LOCATION
641	641DB	Wing
641	641EB	Wing
641	641GB	Wing
641	641FT	Wing

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
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	Wing middle section

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

SUBTASK 841-002-A

WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 28-00-00/200 TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.

- (1) Make sure that the aircraft is defueled ([AMM TASK 12-11-01-600-802-A/300](#)).
- (2) Remove the fuel-tank access panels 541AB, 541BB, 541CB, 541DB, 541EB, 641AB, 641BB, 641CB, 641DB and 641EB ([AMM TASK 28-11-01-000-801-A/400](#)) or ([AMM TASK 28-11-01-000-802-A/400](#)) as applicable ([Figure 601](#)).
- (3) Open access panels 541GB, 541FT, 641GB and 641FT ([AMM MPP 06-44-00/100](#)) ([Figure 601](#)).

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

SUBTASK 212-002-A

- (1) Examine the interior of the wing middle section for loose rivets, nicks, cracks, dents, skin deformation, sealant condition, erosion, corrosion, painting bad condition, and deteriorated protective treatment.
- (2) Examine the upper skin at spanwise joint, torque box and torque box 2 spar 3 attachments, gravity fuel hole, spar attachments, and flap attachment actuator lugs for



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loose rivets, nicks, cracks, dents, erosion, corrosion, sealant poor condition, flaking painting, and deteriorated protective treatment ([Figure 602](#)).

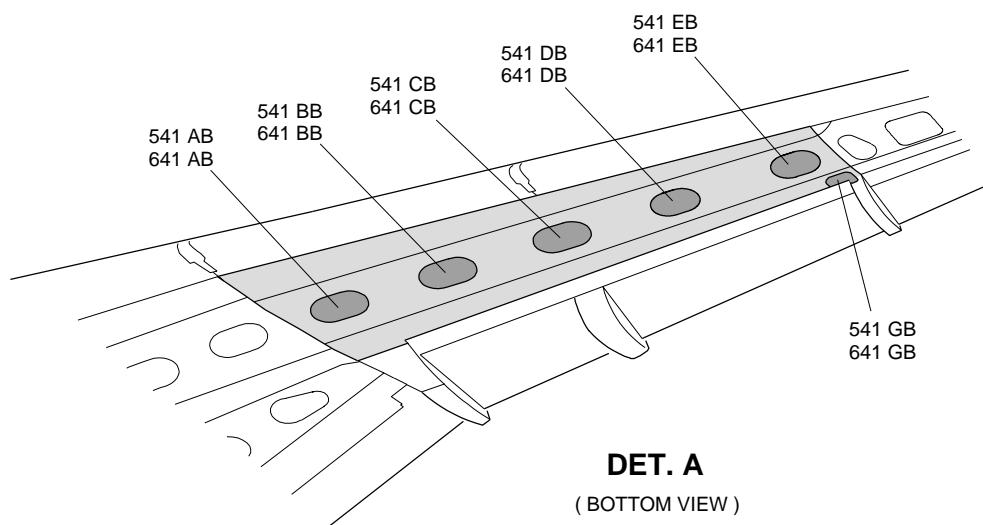
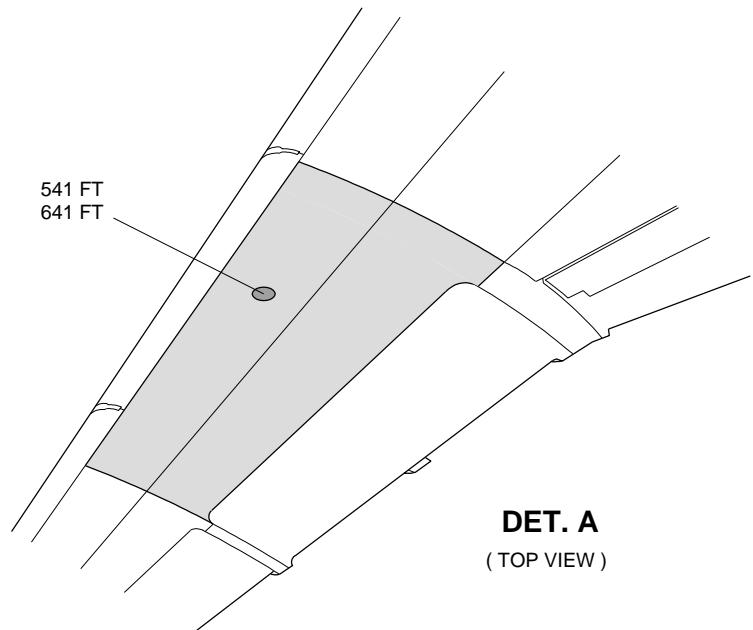
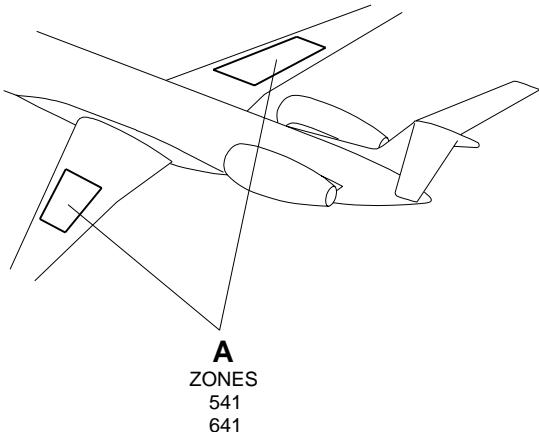
- (3) Examine the EWIS components for signs of damage, adequate installation, chafing and general condition. Refer to WM 20-22-00.

K. Follow-on

SUBTASK 842-002-A

- (1) Install the fuel-tank access panels 541AB, 541BB, 541CB, 541DB, 541EB, 641AB, 641BB, 641CB, 641DB and 641EB ([AMM TASK 28-11-01-400-801-A/400](#)) or ([AMM TASK 28-11-01-400-802-A/400](#)) as applicable.
- (2) Close access panels 541GB, 541FT, 641GB and 641FT ([AMM MPP 06-44-00/100](#)).
- (3) Examine the access panels which were removed and opened for fuel leakage.

EFFECTIVITY: ALL

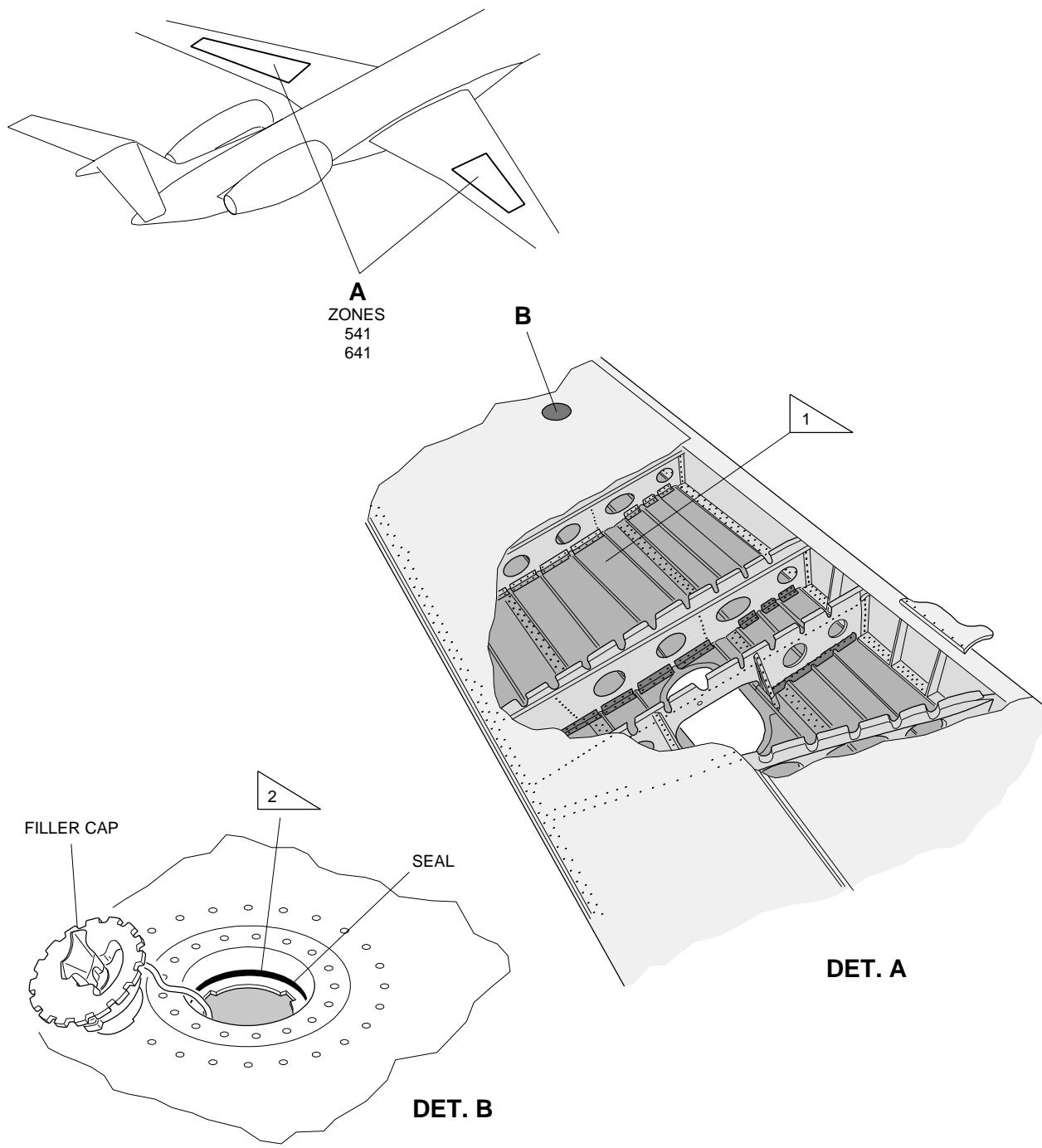
 Wing Middle Section, Between Spar I and Spar II - Internal General Visual Inspection - Upper Skin
 Figure 601


145AMM050202.MCE A

EFFECTIVITY: ALL

Wing Middle Section, Between Spar I and Spar II - Internal General Visual Inspection - Lower Skin

Figure 602



1 INTERNAL VISUAL INSPECTION OF THE WING MIDDLE SECTION.

2 INTERNAL VISUAL INSPECTION OF THE TANK FILLER CAP SEAL.

145AMM050229.MCE A