



AIRCRAFT
MAINTENANCE MANUAL

SPEED BRAKE - INTERNAL - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do the visual inspection of the speed brake for general condition.
- B. Related Zones: 5713/6713.
- C. Zone Boundaries: STA Y = -2450.00 thru STA Y = -3815.00 (rib 9).
- 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
05-30-31-200-801-A	SPEED BRAKE - INTERNAL GENERAL VISUAL INSPECTION	ALL



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 05-30-31-200-801-A

EFFECTIVITY: ALL

2. SPEED BRAKE - INTERNAL GENERAL VISUAL INSPECTION

A. General

- (1) This task gives instructions to do the internal general visual inspection (GVI) of wing, at zones 5713/6713, 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 TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 27-51-00-700-801-A/500	FLAP CONTROL SYSTEM - OPERATIONAL CHECK
AMM TASK 57-56-01-000-801-A/400	INBOARD AND OUTBOARD FLAP LOWER SHROUDS - REMOVAL
AMM TASK 57-56-01-400-801-A/400	INBOARD AND OUTBOARD FLAP LOWER SHROUDS - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
5711		Inboard flap lower shroud
6711		Inboard flap lower shroud

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Standard	Stand	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	Speed brake



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

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

SUBTASK 841-002-A

WARNING: MAKE SURE THAT THERE ARE NO PERSONS OR EQUIPMENT IN THE FLAP TRAVEL AREA.

- (1) Energize the aircraft with the external DC power supply ([AMM TASK 20-40-01-860-801-A/200](#)).
- (2) Set the flaps to the 45-degree position.
- (3) On the circuit breaker panel, open the FLAP 1 and FLAP 2 circuit breakers and attach a DO- NOT- CLOSE tag to them.
- (4) Remove the inboard flap lower shroud 5711 and 6711 ([AMM TASK 57-56-01-000-801-A/400](#)) ([Figure 601](#)).
- (5) Put the stand in position.

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

SUBTASK 212-002-A

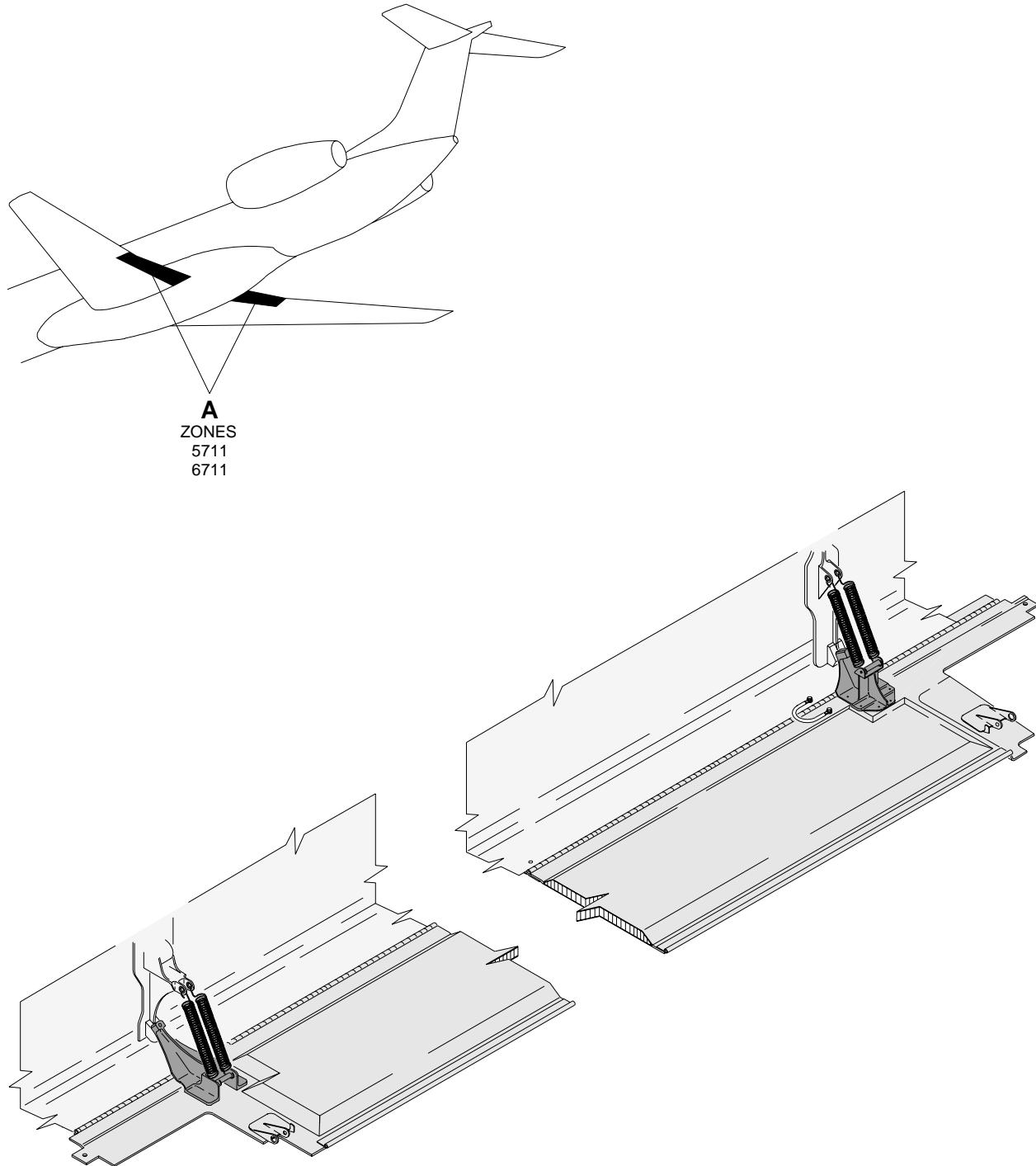
- (1) Examine the interior of the speed brake for loose rivets, skin deformation, nicks, cracks, dents, scratches, gouges, creases, erosion, corrosion, sealant poor condition, deteriorated protective treatment, and foreign objects.
- (2) Examine the interior of the speed brake at hinge points for deformation, nicks, cracks, dents, scratches, gouges, creases, erosion, corrosion, sealant poor condition, and deteriorated protective treatment ([Figure 602](#)).

K. Follow-on

SUBTASK 842-002-A

- (1) Install the inboard flap lower shroud 5711 and 6711 ([AMM TASK 57-56-01-400-801-A/400](#)).
- (2) Remove the stand.
- (3) On the circuit breaker panel, close the FLAP 1 and FLAP 2 circuit breakers and remove the DO-NOT-CLOSE tag from it.
- (4) Do an operational check of the flap control system ([AMM TASK 27-51-00-700-801-A/500](#)).
- (5) Remove the external DC power supply from the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).

EFFECTIVITY: ALL
Inboard Flap Lower Shroud
Figure 601

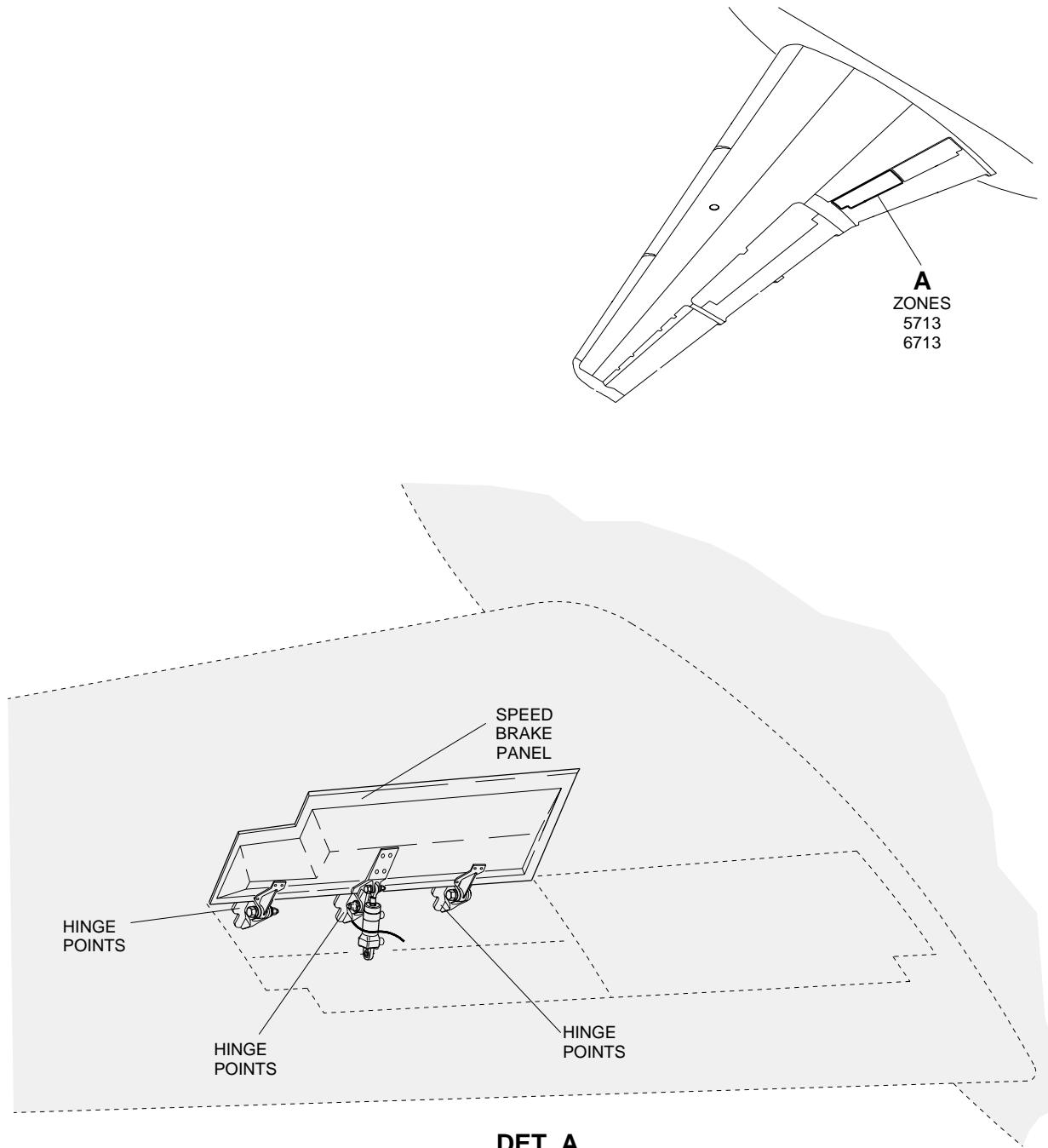


145AMM050232.MCE

EFFECTIVITY: ALL

Speed Brake - Internal General Visual Inspection

Figure 602



145AMM050243.MCE

EMB-145 - AMM 1285

05-30-31

200-801-A/600
Page 5 of 5
Rev 48 - Oct 30/15

