



AIRCRAFT  
MAINTENANCE MANUAL

COWLING SEAL REPAIR - REPAIR

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to repair and to replace the cowling seal.
- B. 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
54-10-02-300-801-A	COWLING SEAL - REPAIR	ALL



# AIRCRAFT MAINTENANCE MANUAL

TASK 54-10-02-300-801-A

EFFECTIVITY: ALL

## 2. COWLING SEAL - REPAIR

### A. General

(1) This task gives the procedures to repair and to replace the cowling seal.

### B. References

REFERENCE	DESIGNATION
AMM TASK 71-12-01-000-801-A/400	ENGINE LOWER COWLING - OPENING
AMM TASK 71-12-01-400-801-A/400	ENGINE LOWER COWLING - CLOSING
SRM 51-20-01	-

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
413		LH Cowling door
423		RH Cowling door

### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the nacelles	
Commercially available	Acrylic spatula	To remove the sealant excess	
Commercially available	Cutter	To cut the seal	

### E. Auxiliary Items

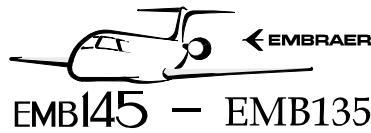
Not Applicable

### F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
TT-M-261	Methyl Ethyl Ketone (MEK)	AR
TT-I-735	Isopropyl Alcohol	AR
MIL-F-38249, TYPE I	Sealant RTV-157 (gray)	AR

### G. Expandable Parts

Not Applicable



EMB145 – EMB135

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H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	On the aircraft

I. Preparation

SUBTASK 841-002-A

- (1) The repair is only applicable if:
  - (a) The distance between two reworked areas is greater than 200 mm.
  - (b) The distance from the seal end to the reworked area is greater than 200 mm.

NOTE: If the repair is not applicable, the whole seal must be replaced.
- (2) Put the workstand in order to get access to the lower cowling.
- (3) Refer to [AMM TASK 71-12-01-000-801-A/400](#) to open the lower cowling.

J. Cowling Seal Repair

SUBTASK 350-002-A

- (1) Refer to [Figure 801](#), Sheets 1 and 2 for seal repair procedure.
- (2) Drill out the rivets from the stiffener plate that holds the damaged seal.
- (3) Remove the stiffener.

**CAUTION: MAKE SURE YOU DO NOT SCRATCH ANY PART OF THE COWLING WITH THE CUTTER. THESE SCRATCHES MAY CAUSE CRACKS.**

- (4) Put a protective plate between the seal and the cowling, then cut out the damaged seal portion.
- (5) Cut a piece from the new seal accordingly, in order to fill-in the gap left by the removed portion.
- (6) Clean all surfaces to be bonded with Isopropyl Alcohol, Methyl Ethyl Ketone, or similar.
- (7) Fit the repair into the gap.

**WARNING: USE SEALANT OR SOLVENT IN WELL VENTILATED AREAS. PREVENT VAPOR INHALATION AND LONG SKIN CONTACT WITH THESE PRODUCTS.**

- (8) Apply RTV-157 sealant to fill-in the butted joint. Refer to SRM 51-20-01 for sealant utilization.
- (9) Use an acrylic spatula to remove the sealant excess.
- (10) Put the stiffener back and install new rivets with the same PN as the removed rivets.

NOTE: When damage with no loss of material occurs, RTV157 sealant can be used to repair these damages.



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K. Cowling Seal Replacement

SUBTASK 960-002-A

- (1) Drill all rivets out and remove the stiffeners.
- (2) Replace the old seal by the new seal.
- (3) Put the stiffeners back and install new rivets with the same PN as the removed rivets.

L. Follow-on

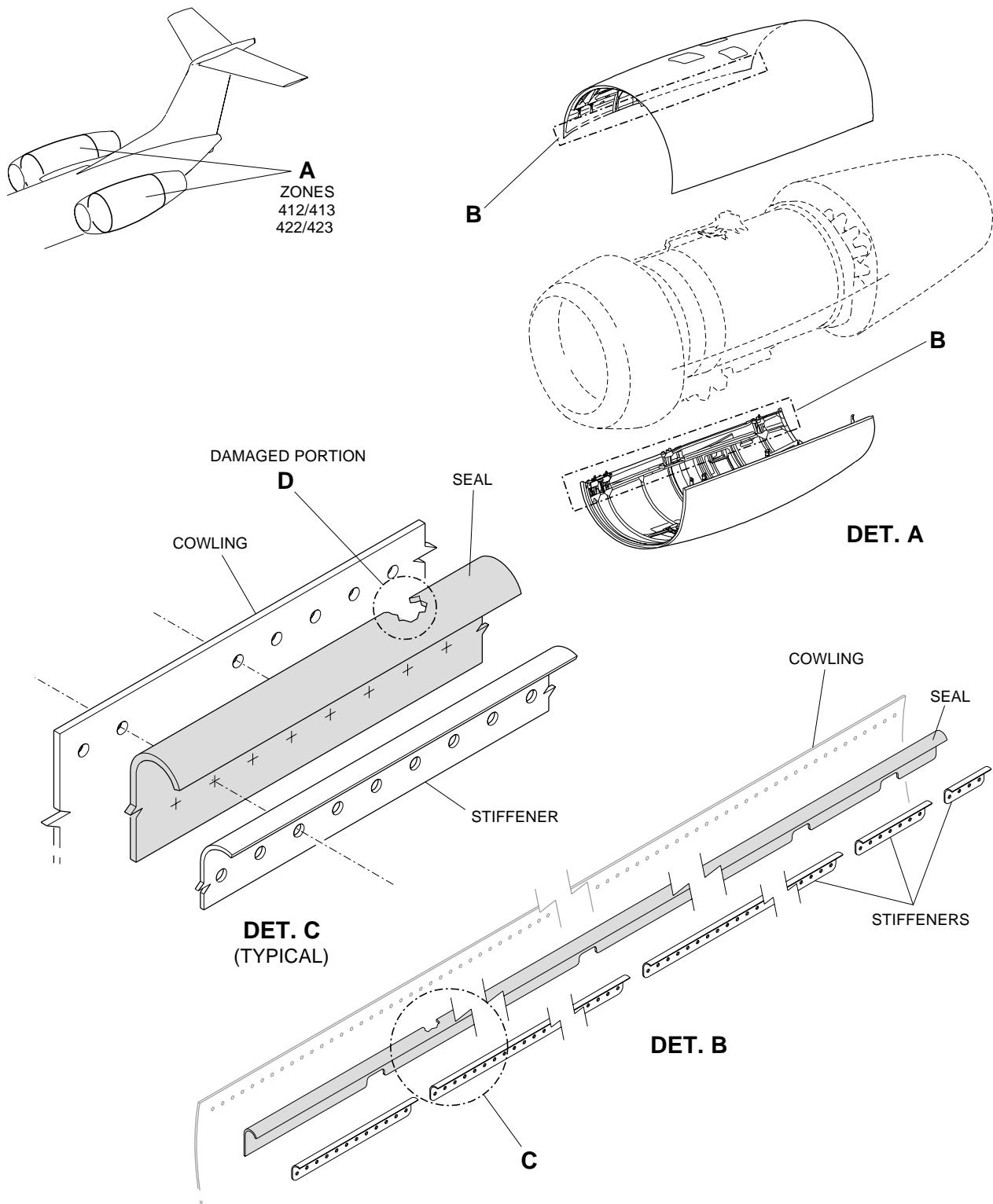
SUBTASK 842-002-A

- (1) Refer to [AMM TASK 71-12-01-400-801-A/400](#) to close the lower cowling.
- (2) Remove the workstand from the work area.

**EFFECTIVITY: ALL**

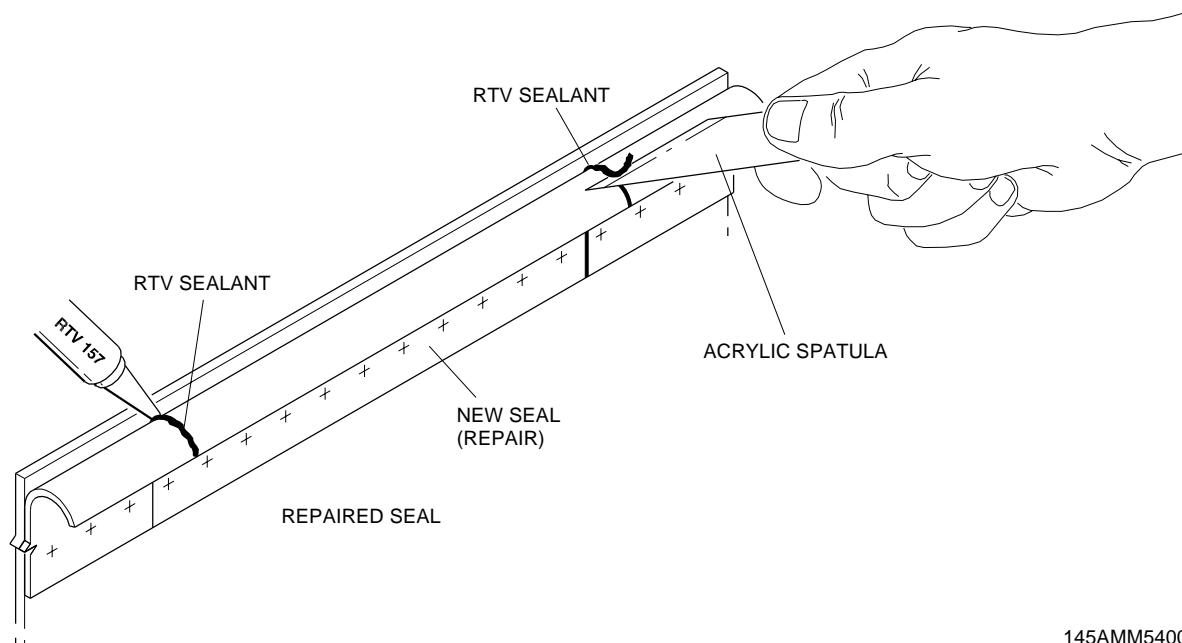
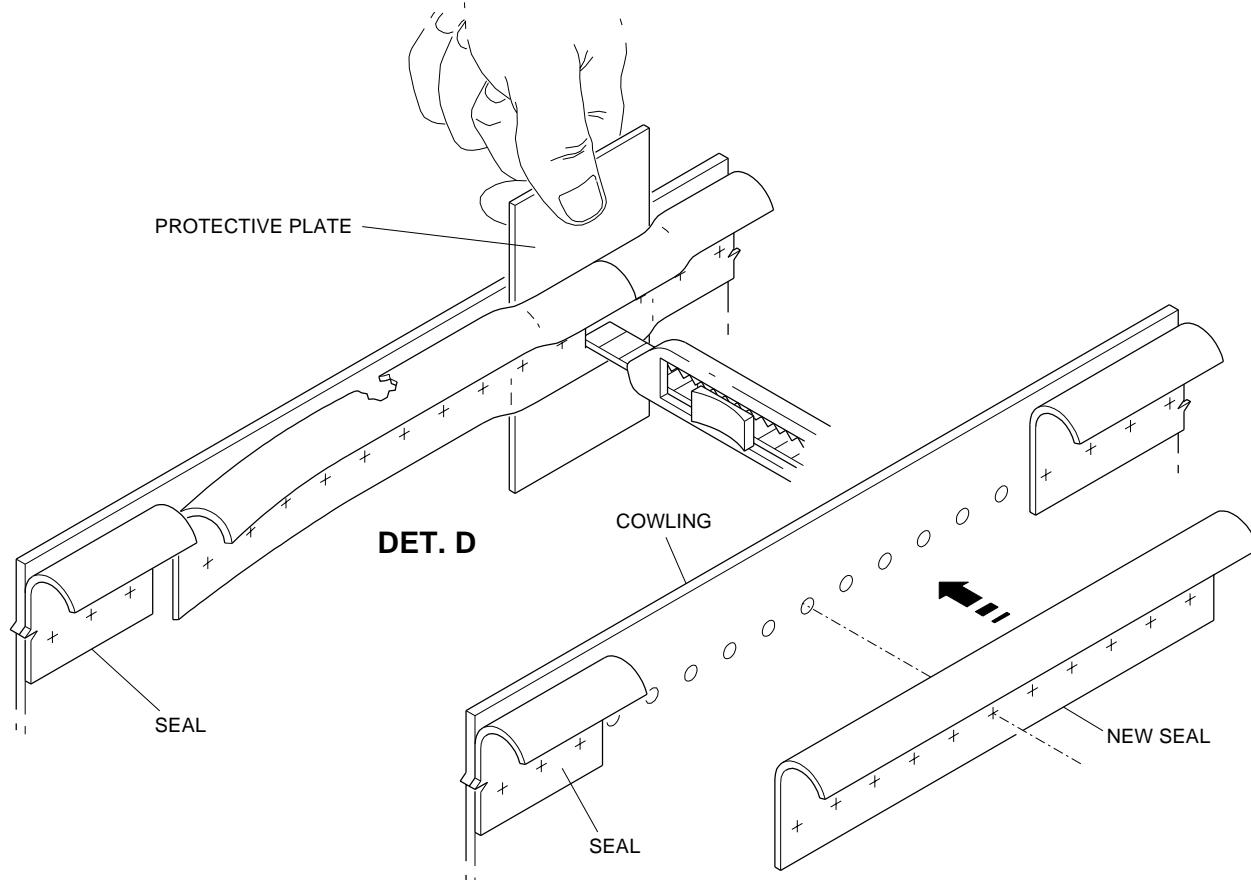
Cowling Seal - Repair

Figure 801 - Sheet 1



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**EFFECTIVITY: ALL**  
 Cowling Seal - Repair  
 Figure 801 - Sheet 2



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