



EMB145 – EMB135

AIRCRAFT  
MAINTENANCE MANUAL

**WING TO FUSELAGE ACCESS DOOR/PANELS - REMOVAL/INSTALLATION**

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the Wing-to-Fuselage attachment fairing access doors/panels.
- B. The procedures in this section are given in the sequence below.
- C. 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
52-40-02-000-801-A	WING-TO-FUSELAGE ATTACHMENT FAIRING ACCESS DOORS - REMOVAL	ALL
52-40-02-400-801-A	WING-TO-FUSELAGE ACCESS DOORS - INSTALLATION	ALL
52-40-02-000-802-A	WING-TO-FUSELAGE ATTACHMENT FAIRING ACCESS DOORS WITH BONDING STRAP - REMOVAL	ALL
52-40-02-400-802-A	WING-TO-FUSELAGE ATTACHMENT FAIRING ACCESS DOORS WITH BONDING STRAP - INSTALLATION	ALL
52-40-02-000-803-A	WING-TO-FUSELAGE ACCESS PANELS - REMOVAL	ALL
52-40-02-400-803-A	WING-TO-FUSELAGE ATTACHMENT FAIRING ACCESS PANELS - INSTALLATION	ALL
52-40-02-000-804-A	WING-TO-FUSELAGE ATTACHMENT FAIRING INSPECTION LIGHT ACCESS PANELS - REMOVAL	ALL
52-40-02-400-804-A	WING-TO-FUSELAGE INSPECTION LIGHT ACCESS PANELS - INSTALLATION	ALL



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TASK 52-40-02-000-801-A

EFFECTIVITY: ALL

2. WING-TO-FUSELAGE ATTACHMENT FAIRING ACCESS DOORS - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the wing-to-fuselage attachment fairing access doors.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192	192CL	Wing-to-fuselage attachment fairing
192	192DR	Wing-to-fuselage attachment fairing
192	192FL	Wing-to-fuselage attachment fairing
192	192GR	Wing-to-fuselage attachment fairing
192	192HL	Wing-to-fuselage attachment fairing
192	192JR	Wing-to-fuselage attachment fairing
193	193DL	Wing-to-fuselage attachment fairing
193	193GR	Wing-to-fuselage attachment fairing
193	193EL	Wing-to-fuselage attachment fairing
193	193HR	Wing-to-fuselage attachment fairing
193	193FL	Wing-to-fuselage attachment fairing
193	193JR	Wing-to-fuselage attachment fairing

D. Tools and Equipment

Not Applicable

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-to-fuselage attachment fairing



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I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Open the Wing-to-fuselage attachment fairing access doors 192CL, 192DR, 192FL, 192GR, 192HL, 192JR, 193DL, 193GR, 193EL, 193HR, 193FL, and 193JR. Refer to AMM MPP 06-41-01/100.

J. Removal ([Figure 401](#))

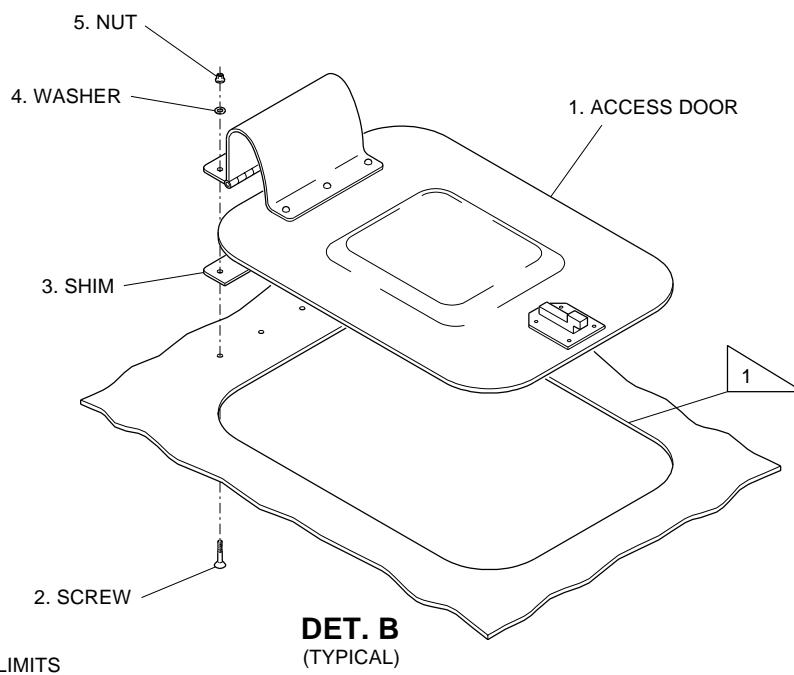
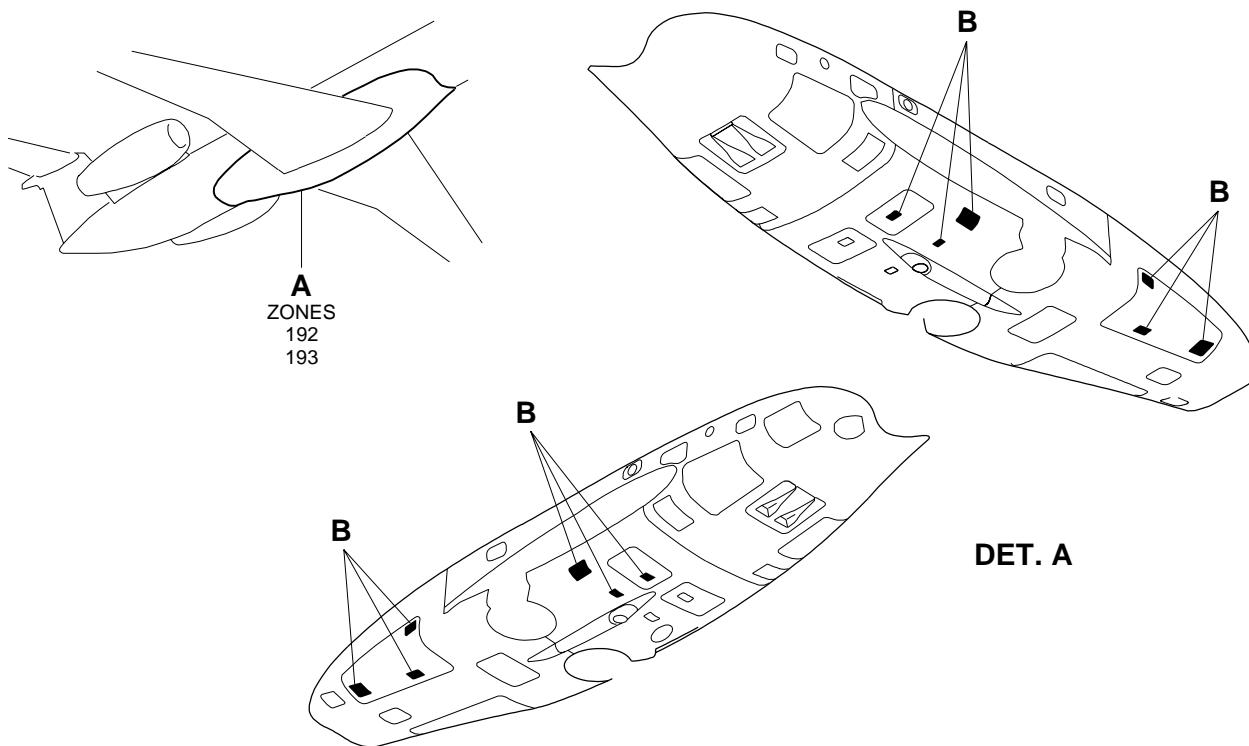
SUBTASK 020-002-A

- (1) Remove the nuts (5) and washers (4) that attach access door (1) on wing-to-fuselage attachment fairing.
- (2) Remove the screws (2) and shim (3).
- (3) Remove the access door (1).

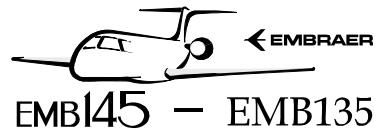
**EFFECTIVITY: ALL**

Wing-to-Fuselage Attachment Fairing Access Doors - Removal/Installation

Figure 401



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TASK 52-40-02-400-801-A

EFFECTIVITY: ALL

3. WING-TO-FUSELAGE ACCESS DOORS - INSTALLATION

## A. General

- (1) This procedure gives the instructions to install the wing-to-fuselage attachment fairing access doors.

## B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM MPP 20-10-01/200</a>	- MAINTENANCE PRACTICES
SRM 51-10-01	-

## C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192	192CL	Wing-to-fuselage attachment fairing
192	192DR	Wing-to-fuselage attachment fairing
192	192FL	Wing-to-fuselage attachment fairing
192	192GR	Wing-to-fuselage attachment fairing
192	192HL	Wing-to-fuselage attachment fairing
192	192JR	Wing-to-fuselage attachment fairing
193	193DL	Wing-to-fuselage attachment fairing
193	193GR	Wing-to-fuselage attachment fairing
193	193EL	Wing-to-fuselage attachment fairing
193	193HR	Wing-to-fuselage attachment fairing
193	193FL	Wing-to-fuselage attachment fairing
193	193JR	Wing-to-fuselage attachment fairing

## D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench	To tighten the attachment screws	

## E. Auxiliary Items

Not Applicable

## F. Consumable Materials

Not Applicable

## G. Expandable Parts

Not Applicable



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H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	wing-to-fuselage attachment fairing

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Install the access door (1).
- (2) Install the shim (3) and screws (2).
- (3) Install the washers (4) and nuts (5) to attach the access door (1) applying the correct torque. Refer to [AMM MPP 20-10-01/200](#).

J. Follow-on (Figure 401)

SUBTASK 842-002-A

- (1) Close the Wing-to-fuselage attachment fairing access doors 192CL, 192DR, 192FL, 192GR, 192HL, 192JR, 193DL, 193GR, 193EL, 193HR, 193FL, and 193JR. Refer to [AMM MPP 06-41-01/100](#).
- (2) Check the Aerodynamic Limits. Refer to SRM 51-10-01.



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TASK 52-40-02-000-802-A

EFFECTIVITY: ALL

4. WING-TO-FUSELAGE ATTACHMENT FAIRING ACCESS DOORS WITH BONDING STRAP - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the wing-to-fuselage attachment fairing access doors with bonding strap.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191AR	Wing-to-fuselage attachment fairing
193	193MR	Wing-to-fuselage attachment fairing

D. Tools and Equipment

Not Applicable

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-to-fuselage attachment fairing

I. Preparation

SUBTASK 841-003-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Open the Wing-to-Fuselage attachment fairing access doors 191AR and 193MR. Refer to AMM MPP 06-41-01/100.

J. Removal (Figure 402)

SUBTASK 020-003-A

- (1) Remove the nut (9), lock washer (8), and washer (7) that attach the bonding strap (6).
- (2) Release the bonding strap (6).



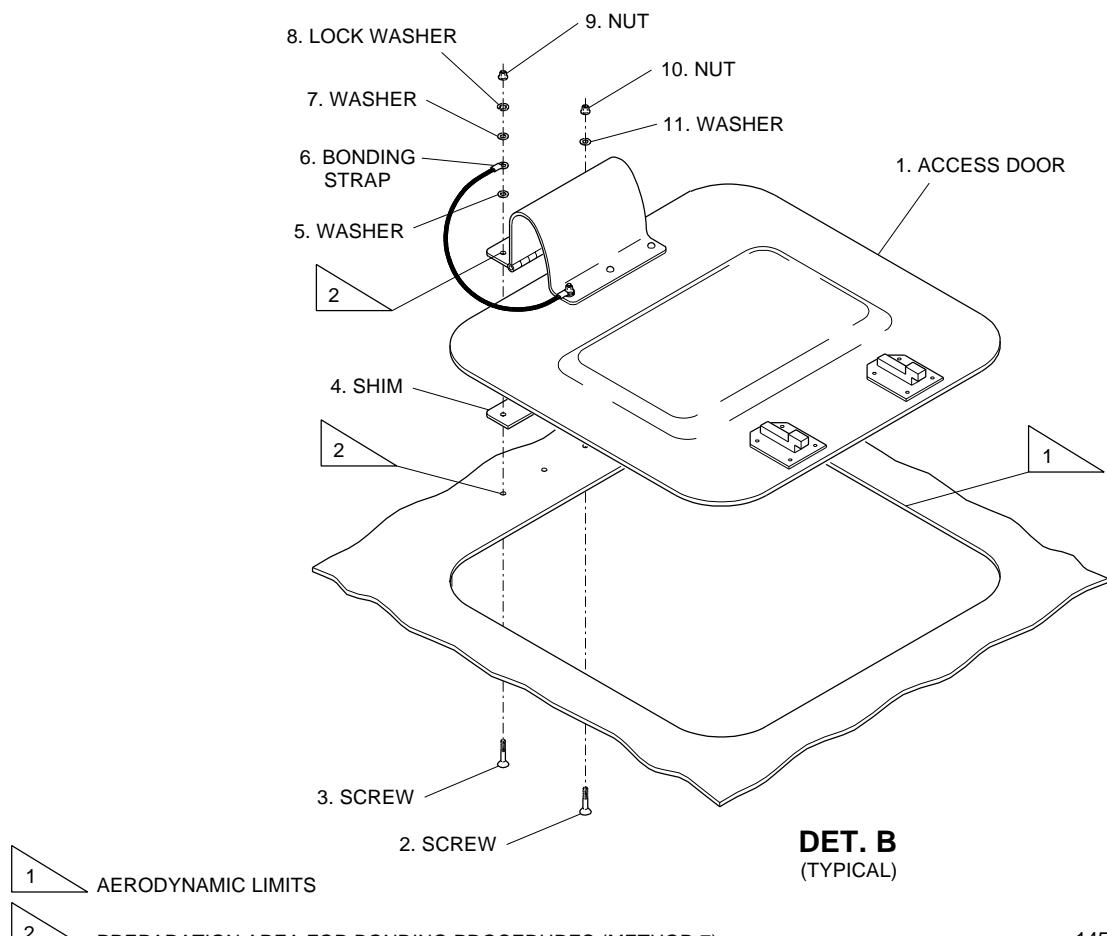
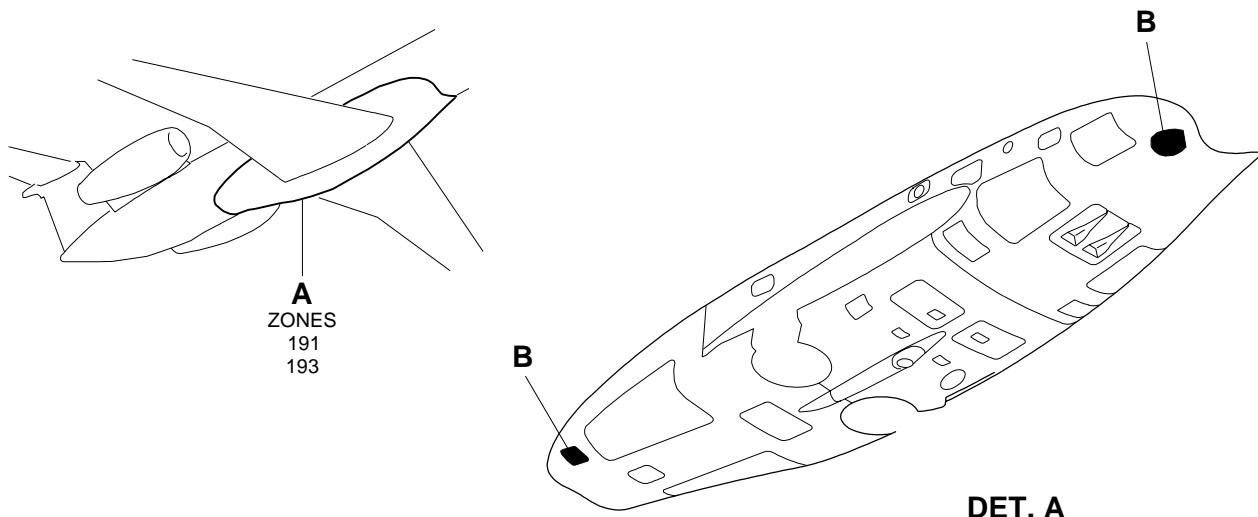
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- (3) Remove the washer (5) and screw (3).
- (4) Remove the nuts (10), washers (11), and screws (2) that attach access door (1) on wing-to-fuselage attachment fairing.
- (5) Remove the shims (4).
- (6) Remove the access door (1).

**EFFECTIVITY: ALL**

Wing-to-Fuselage Attachment Fairing Access Doors with Bonding Strap - Removal/Installation  
Figure 402



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TASK 52-40-02-400-802-A

EFFECTIVITY: ALL

5. WING-TO-FUSELAGE ATTACHMENT FAIRING ACCESS DOORS WITH BONDING STRAP - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the wing-to-fuselage attachment fairing access doors with bonding strap.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 20-10-01/200	- MAINTENANCE PRACTICES
AMM MPP 20-13-21/200	- MAINTENANCE PRACTICES
SRM 51-10-01	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191AR	Wing-to-fuselage attachment fairing
193	193MR	Wing-to-fuselage attachment fairing

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench	To tighten the attachment screws	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

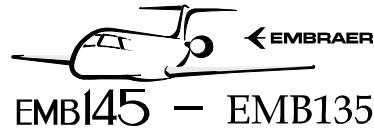
H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Wing-to-fuselage attachment fairing

I. Installation (Figure 402)

SUBTASK 420-003-A

- (1) Install the access door (1).
- (2) Install the shim (4) and screws (2).



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- (3) Install the washers (11) and nuts (10) for attach the access doors (1) on wing-to-fuselage attachment fairing, applying the correct torque. Refer to [AMM MPP 20-10-01/200](#).
- (4) Do the bonding procedures. Refer to [AMM MPP 20-13-21/200](#).
- (5) Install the screw (3), the washer (5), the bonding strap (6), the washer (7), the lock washer (8), and nut (9) for attach the bonding strap (6), applying the correct torque. Refer to [AMM MPP 20-10-01/200](#).

J. Follow-on (Figure 402)

SUBTASK 842-003-A

- (1) Do the bonding procedures test. Refer to [AMM MPP 20-13-21/200](#).
- (2) Close the Wing-to-Fuselage attachment fairing access doors 191AR and 193MR. Refer to [AMM MPP 06-41-01/100](#).
- (3) Check the Aerodynamic Limits. Refer to SRM 51-10-01.



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TASK 52-40-02-000-803-A

EFFECTIVITY: ALL

## 6. WING-TO-FUSELAGE ACCESS PANELS - REMOVAL

### A. General

- (1) This procedure gives the instructions to remove the wing-to-fuselage access panels.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

### C. Zones and Accesses

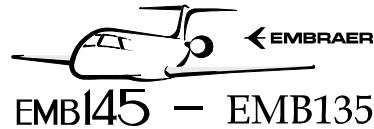
ZONE	PANEL/DOOR	LOCATION
191	191EL	Wing-to-fuselage attachment fairing
191	191FR	Wing-to-fuselage attachment fairing
191	191GL	Wing-to-fuselage attachment fairing
191	191HL	Wing-to-fuselage attachment fairing
191	191JR	Wing-to-fuselage attachment fairing
191	191KL	Wing-to-fuselage attachment fairing
191	191LR	Wing-to-fuselage attachment fairing
191	191ML	Wing-to-fuselage attachment fairing
191	191NR	Wing-to-fuselage attachment fairing
193	193AL	Wing-to-fuselage attachment fairing
193	193LL	Wing-to-fuselage attachment fairing
195	195BL	Wing-to-fuselage attachment fairing
194	194BR	Wing-to-fuselage attachment fairing
195	195CL	Wing-to-fuselage attachment fairing
194	194CR	Wing-to-fuselage attachment fairing

### D. Tools and Equipment

Not Applicable

### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Goggles		1
Commercially available	Rubber Gloves		1
Commercially available	Acrylic Spatula		1
Commercially available	Lint-Free Cloth		1



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F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
ASTM-D-740	Methyl-ethyl-ketone (MEK)	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Wing-to-fuselage attachment fairing

I. Preparation

*SUBTASK 841-004-A*

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Identify the Wing-to-Fuselage attachment fairing access panels 191EL, 191FR, 191GL, 191HL, 191JR, 191KL, 191LR, 191ML, 191NR, 193AL, 193LL, 195BL, 194BR, 195CL, and 194CR. Refer to AMM MPP 06-41-01/100.
- (3) With an Acrylic spatula, remove the old aerodynamic sealant in the wing-to-fuselage access panels attachment area.
- (4) With a lint-free cloth soaked in MEK, clean de surface.

J. Removal ([Figure 403](#))

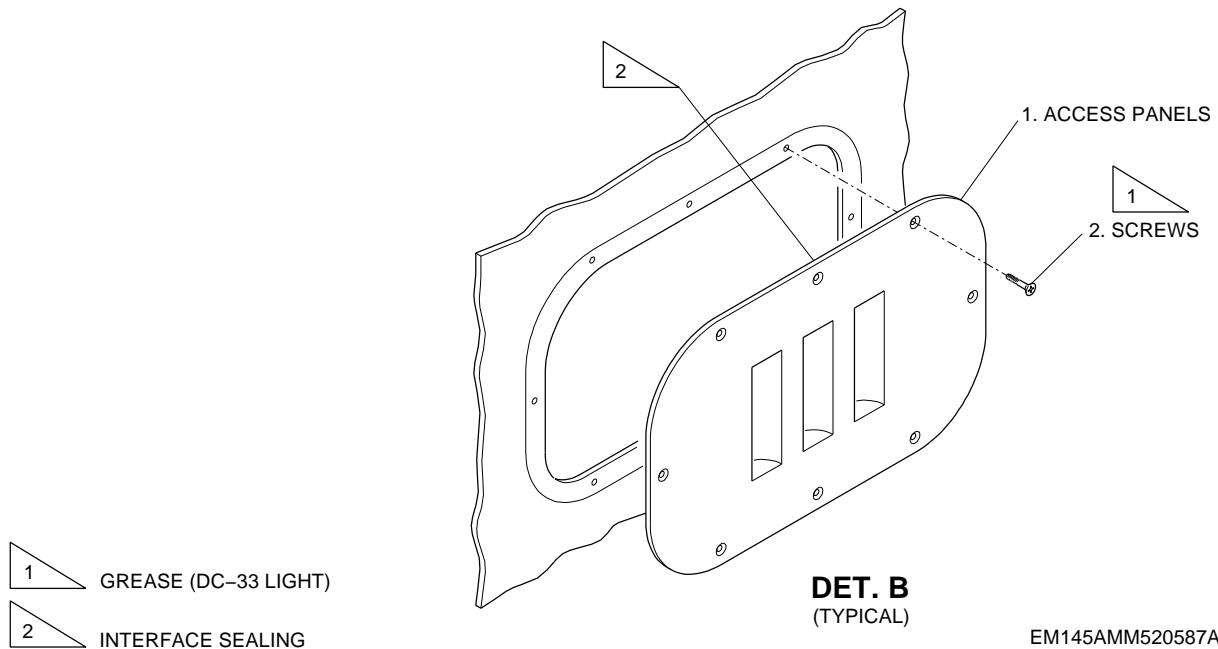
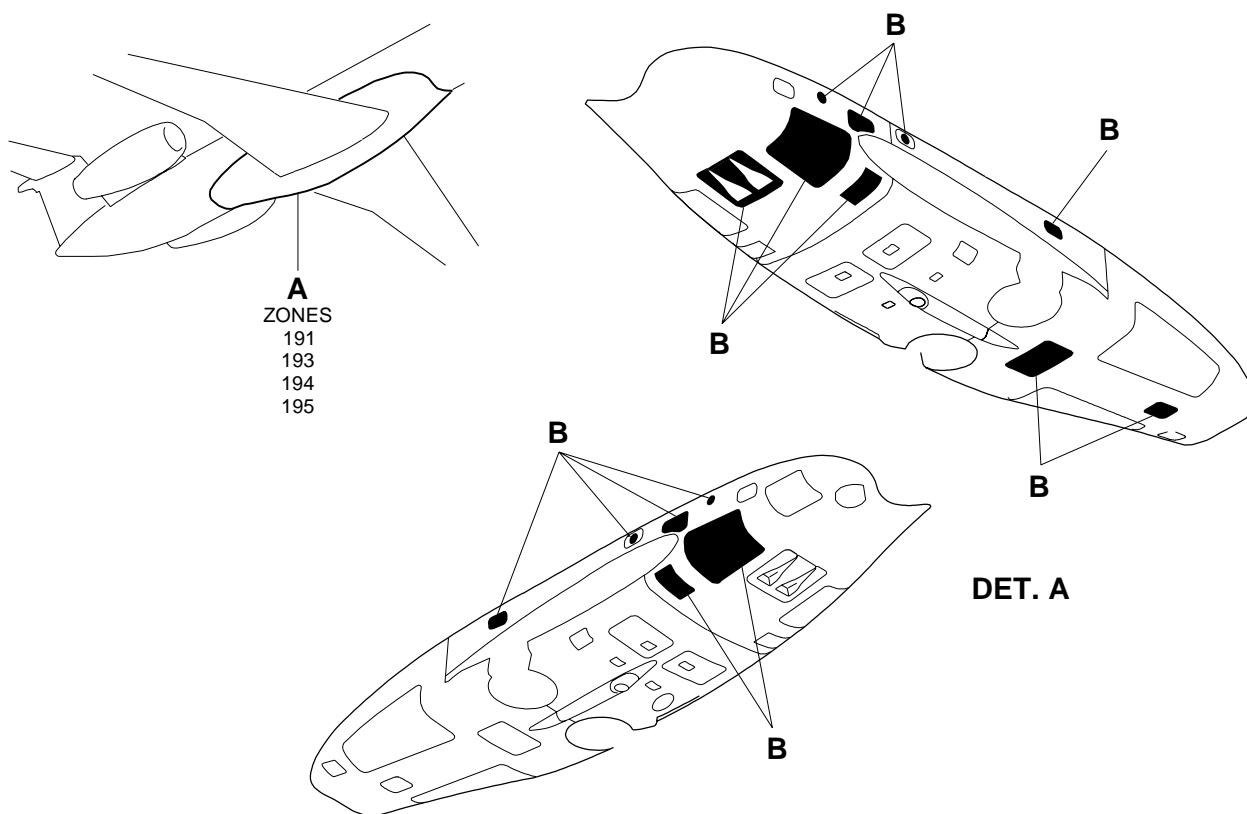
*SUBTASK 020-004-A*

- (1) Remove the screws (2) that attach access panel (1).
- (2) Remove the access panel (1).

**EFFECTIVITY: ALL**

Wing-to-Fuselage Attachment Fairing Access Panels - Removal/Installation

Figure 403



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**TASK 52-40-02-400-803-A**
**EFFECTIVITY: ALL**
**7. WING-TO-FUSELAGE ATTACHMENT FAIRING ACCESS PANELS - INSTALLATION**
**A. General**

- (1) This procedure gives the instructions to install the wing-to-fuselage attachment fairing access panels.

**B. References**

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM TASK 28-41-00-200-801-A/600	-
SRM 51-10-01	-
SRM 51-20-01	-

**C. Zones and Accesses**

<i>ZONE</i>	<i>PANEL/DOOR</i>	<i>LOCATION</i>
191	191EL	Wing-to-fuselage attachment fairing
191	191FR	Wing-to-fuselage attachment fairing
191	191GL	Wing-to-fuselage attachment fairing
191	191HL	Wing-to-fuselage attachment fairing
191	191JR	Wing-to-fuselage attachment fairing
191	191KL	Wing-to-fuselage attachment fairing
191	191LR	Wing-to-fuselage attachment fairing
191	191ML	Wing-to-fuselage attachment fairing
191	191NR	Wing-to-fuselage attachment fairing
193	193AL	Wing-to-fuselage attachment fairing
193	193LL	Wing-to-fuselage attachment fairing
195	195BL	Wing-to-fuselage attachment fairing
194	194BR	Wing-to-fuselage attachment fairing
195	195CL	Wing-to-fuselage attachment fairing
194	194CR	Wing-to-fuselage attachment fairing

**D. Tools and Equipment**

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
Commercially available	Torque wrench	To tighten the attachment screws	

**E. Auxiliary Items**

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
Commercially available	Goggles		1



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(Continued)

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Gloves		1

## F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-G-46886	Grease, Molykote DC-33, Light	AR
MIL-PRF-81733 TYPE II-2	Sealant, P/S 870 - B 2	AR
MIL-PRF-81733 TYPE II-1/2	Sealant, P/S 870 - B 1/2	AR
Commercially available	Adhesive Tape	AR
Commercially available	Aluminum Tape (AL Tape 425)	AR
Commercially available	Polyethylene Film	AR

## G. Expandable Parts

Not Applicable

## H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Wing-to-fuselage attachment fairing

## I. Installation (Figure 403)

## SUBTASK 420-004-A

- (1) For access panels (1) 191GL, do an inspection on the fuel quantity indication harness (AMM TASK 28-41-00-200-801-A/600).

NOTE: The inspection of the fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations (Section 6) of the Maintenance Review Board Report (MRB).

- (2) Apply Molykote DC-33 light grease to the screws (2).
- (3) Install the access panel (1).
- (4) Install the screws (2) that attach the access panel (1).

## J. Follow-on (Figure 403)

## SUBTASK 842-004-A

CAUTION: THE PRODUCTS USED FOR CLEANING AND SEALING ARE TOXIC AND INFLAMMABLE. WEAR RUBBER GLOVES AND GOGGLES. IF THE AREA OF SEALING COMPOUND APPLICATION IS NOT WELL VENTILATED, USE RESPIRATORS.

- (1) There are different methods to do the aerodynamic sealing and interface sealing in the wing-to-fuselage access panels attachment area. Use the applicable procedure as necessary.

(a) Full sealant-curing time:

- 1 Apply sealant P/S 870 - B 1/2 or P/S 870 - B 2.

NOTE: The sealant curing time will change because of the environmental conditions. Refer to SRM 51-20-01.

(b) Acceleration of the sealant curing time with heating:

- 1 Apply sealant P/S 870 - B 1/2 or P/S 870 - B 2.

- 2 Wait for one hour after the sealant is applied.

CAUTION: THE TEMPERATURE MUST NOT BE HIGHER THAN 55°C (131°F).

- 3 Heat the area which received the sealant.

NOTE: The sealant curing time versus temperature rate changes as shown in the Sealant Specification Table (SRM 51-20-01).

(c) Application of aluminum tape after the tack-free time.

NOTE: This procedure must only be done when a faster aircraft clearance is necessary.

- 1 Apply sealant P/S 870 - B 1/2 or P/S 870 - B 2.

- 2 You can accelerate the sealant curing time as written in paragraph (b).

- 3 After the sealant is tack-free, apply aluminum tape.

NOTE: You can operate the aircraft immediately after the aluminum tape application.

- 4 Remove the aluminum tape after 150 hours.

(d) Application of polyethylene film and aluminum tape.

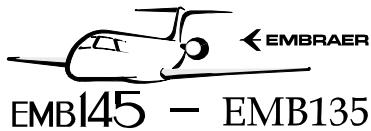
- 1 Apply sealant P/S 870 - B 1/2 or P/S 870 - B 2.

- 2 Apply a polyethylene film over the sealant.

- 3 Apply the aluminum tape.

- 4 Remove the aluminum tape after 10 days.

(2) Check the Aerodynamic Limits. Refer to SRM 51-10-01.



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TASK 52-40-02-000-804-A

EFFECTIVITY: ALL

8. WING-TO-FUSELAGE ATTACHMENT FAIRING INSPECTION LIGHT ACCESS PANELS - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the wing-to-fuselage attachment fairing inspection light access panels.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191CL	Wing-to-fuselage attachment fairing
191	191DR	Wing-to-fuselage attachment fairing

D. Tools and Equipment

Not Applicable

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-to-fuselage attachment fairing

I. Preparation

SUBTASK 841-005-A

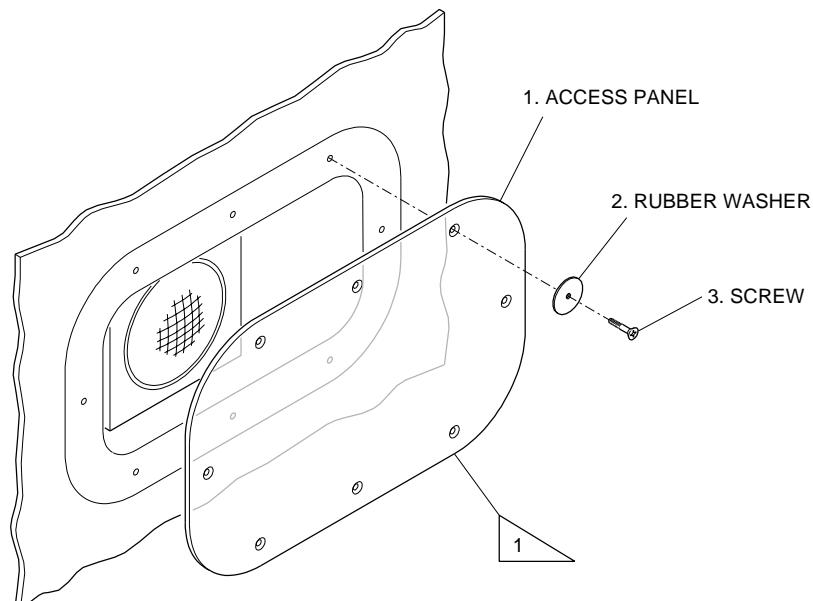
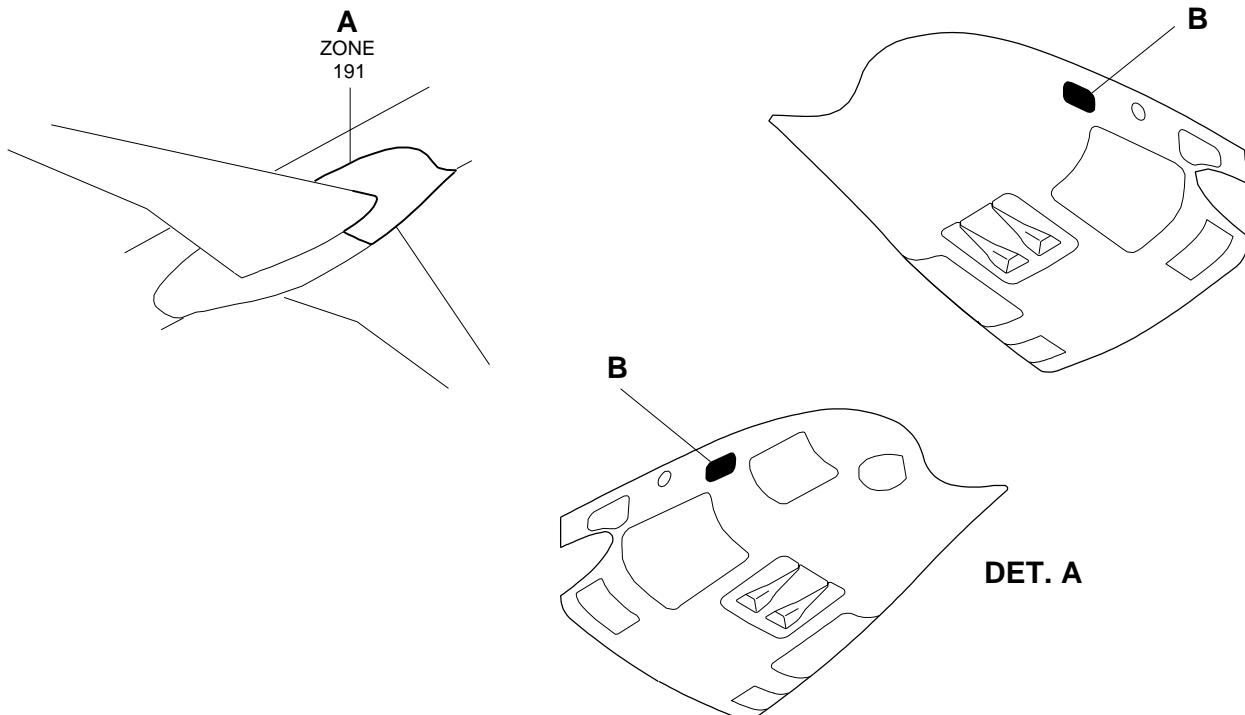
- (1) Make sure that the aircraft is safe for maintenance.
- (2) Identify the Wing-to-Fuselage attachment fairing access panels 191CL and 191DR. Refer to AMM MPP 06-41-01/100.

J. Removal ([Figure 404](#))

SUBTASK 020-005-A

- (1) Remove the screws (3) and rubber washers (2) that attach access panel (1).
- (2) Remove the access panel (1).

**EFFECTIVITY: ALL**

 Wing-to-Fuselage Attachment Fairing Inspection Light Access Panels - Removal/Installation  
 Figure 404


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TASK 52-40-02-400-804-A

EFFECTIVITY: ALL

9. WING-TO-FUSELAGE INSPECTION LIGHT ACCESS PANELS - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the wing-to-fuselage inspection light access panels.

B. References

REFERENCE	DESIGNATION
AMM MPP 20-10-01/200	- MAINTENANCE PRACTICES
SRM 51-10-01	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191CL	Wing-to-fuselage attachment fairing
191	191DR	Wing-to-fuselage attachment fairing

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench	To tighten the attachment screws	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

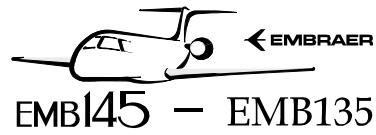
H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Wing-to-fuselage attachment fairing

I. Installation (Figure 404)

SUBTASK 420-005-A

- (1) Install the access panel (1).
- (2) Install the rubber washers (2) and screws (3) for attach the access panel (1), applying the correct torque. Refer to [AMM MPP 20-10-01/200](#).



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J. Follow-on (Figure 404)

SUBTASK 842-005-A

- (1) Check the Aerodynamic Limits. Refer to SRM 51-10-01.

