

## FORWARD WING-TO-FUSELAGE FAIRING - REMOVAL/INSTALLATION

*EFFECTIVITY: ALL*

### 1. General

- A. This section gives the procedures to remove and install the forward wing-to-fuselage fairing.
- 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
53-04-01-000-801-A	FORWARD WING-TO-FUSELAGE FAIR- ING - REMOVAL	ALL
53-04-01-400-801-A	FWD WING-TO-FUSELAGE FAIRING - IN- STALLATION	ALL

TASK 53-04-01-000-801-A

EFFECTIVITY: ALL

## 2. FORWARD WING-TO-FUSELAGE FAIRING - REMOVAL

### A. General

(1) This procedure gives the instructions to remove the forward wing-to-fuselage fairing.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM TASK 21-25-01-000-801-A/400</a>	RAM AIR VALVE - REMOVAL
<a href="#">AMM TASK 28-23-09-000-801-A/400</a>	REFUELING/DEFUELING CONTROL PANEL - REMOVAL
SRM 51-20-01-PR	-

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191EL (LH side)	Forward wing-to-fuselage attachment area
191	191FR (RH side)	Forward wing-to-fuselage attachment area
191	191GL	Forward wing-to-fuselage attachment area
191	191BR	Forward wing-to-fuselage fairing

### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Acrylic spatula	To remove sealant	
Commercially available	Workstand	To get access to the work area	

### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Protective Gloves	For protection of technician's hands	1
Commercially available	Safety Goggles	For protection of technician's eyes	1

F. Consumable Materials

<i>SPECIFICATION (BRAND)</i>	<i>DESCRIPTION</i>	<i>QTY</i>
ASTM-D-740	Methyl Ethyl Ketone - MEK	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

<i>QTY</i>	<i>FUNCTION</i>	<i>PLACE</i>
4	Do the task	Forward wing-to-fuselage attachment area

I. Preparation

*SUBTASK 841-002-A*

- (1) On the overhead circuit breaker panel, open these circuit breakers and attach DO-NOT-CLOSE tags to them:
  - DEFUELING
  - FUEL PUMP 2A
  - FUEL QTY IND 1/2
  - REFUELING 1/2/3
  - START 1/2
  - RAM AIR
- (2) Make sure that the emergency light switch, on the overhead panel, is set to the OFF position.
- (3) Make sure that the inspection light switch, on the overhead panel, is set to the OFF position.
- (4) Open access door 191BR (AMM MPP 06-41-01/100) to get access to the refueling/defueling panel.

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

*SUBTASK 020-002-A*

- (1) With an acrylic spatula, remove the old aerodynamic sealant from the forward wing-to-fuselage attachment area.

**CAUTION:** CAREFULLY REMOVE THE FAIRING TO PREVENT DAMAGE TO THE FUEL-QUANTITY-SELECTOR REPEATER SWITCHES. REFER TO FIGURE 401; DET. C.

- (2) Remove the screws that attach the access panels to the forward wing-to-fuselage fairing (3). Refer to [Figure 401](#); Sheet 1; DET. A.
- (3) Remove access panels (AMM MPP 06-41-01/100):

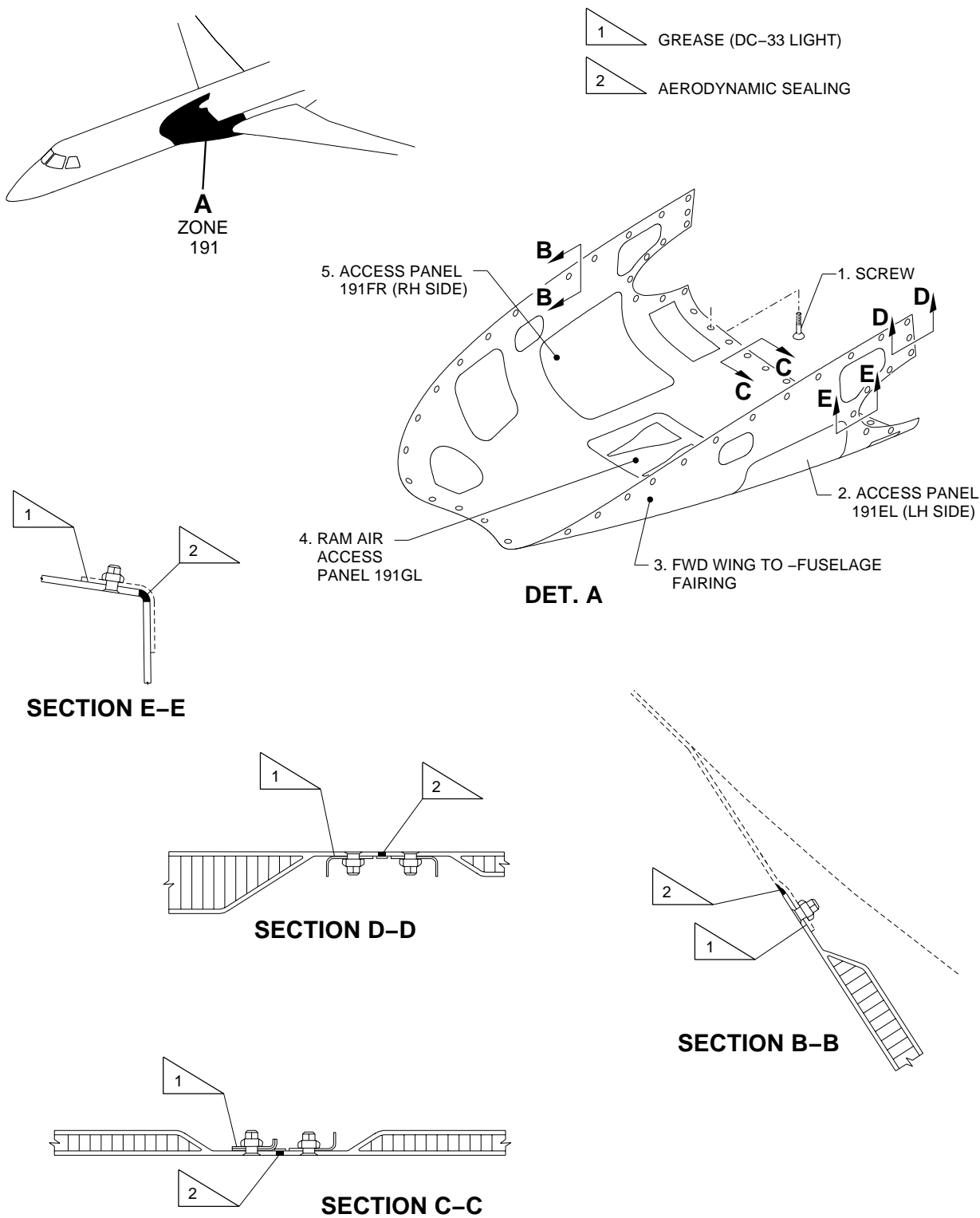
- 191EL (LH side) (2).
  - 191FR (RH side) (5).
- (4) Disconnect the electrical connector from the emergency lights (LH and RH). Refer to [Figure 401](#); Sheet 3; DET. B.
  - (5) Disconnect the electrical connector from the inspection lights (LH and RH).
  - (6) Remove the light cover screws (6) and the light cover (7), according to [AMM TASK 28-23-09-000-801-A/400](#). Refer to [Figure 401](#); Sheet 2; DET. B.
  - (7) Remove the light case screws and the light case (8).
  - (8) Disconnect the electrical connector (9) from the light case.
  - (9) Install protection caps to the disconnected electrical connectors.
  - (10) Remove the formed plate (13), according to [AMM TASK 28-23-09-000-801-A/400](#). Refer to [Figure 401](#); Sheet 2; DET. E.
  - (11) Remove the screws (10) that attach the microswitch assembly (11) to the support (12). Refer to [Figure 401](#); Sheet 2; DET. D.
  - (12) Remove the RAM AIR access panel (4), according to [AMM TASK 21-25-01-000-801-A/400](#). Refer to [Figure 401](#); Sheet 1; DET. A.
  - (13) Remove the screws (1) that attach the forward wing-to-fuselage fairing (3). Refer to [Figure 401](#); Sheet 1; SECTIONS B-B, C-C, D-D, and E-E.
  - (14) Remove the forward wing-to-fuselage fairing (3).

**NOTE:** Make sure that the interface sealant is not damaged. If necessary, apply sealant again according to SRM 51-20-01-PR.

EFFECTIVITY: ALL

Forward Wing-to-Fuselage Fairing - Removal/Installation

Figure 401 - Sheet 1

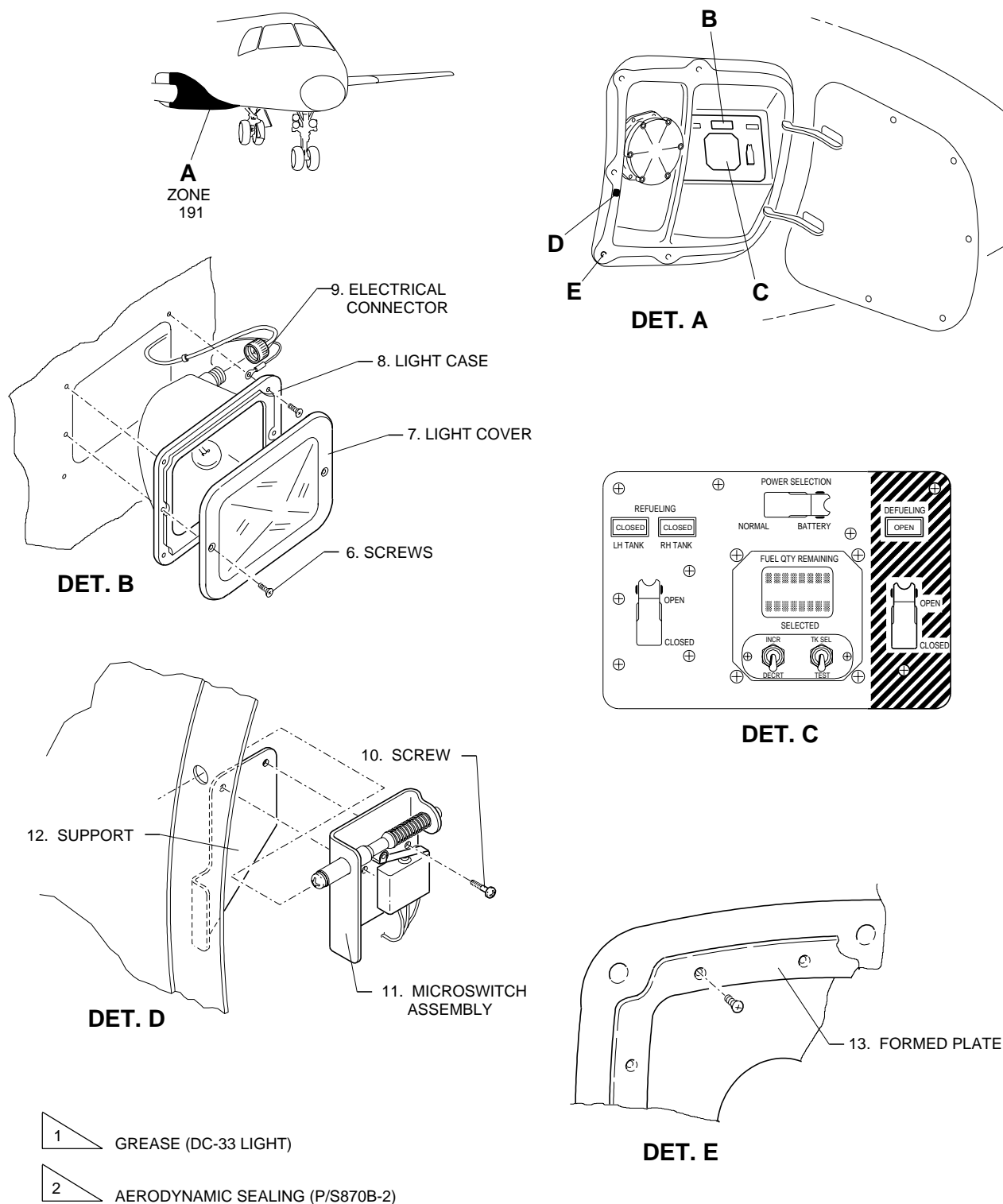


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EFFECTIVITY: ALL

Forward Wing-to-Fuselage Fairing - Removal/Installation

Figure 401 - Sheet 2

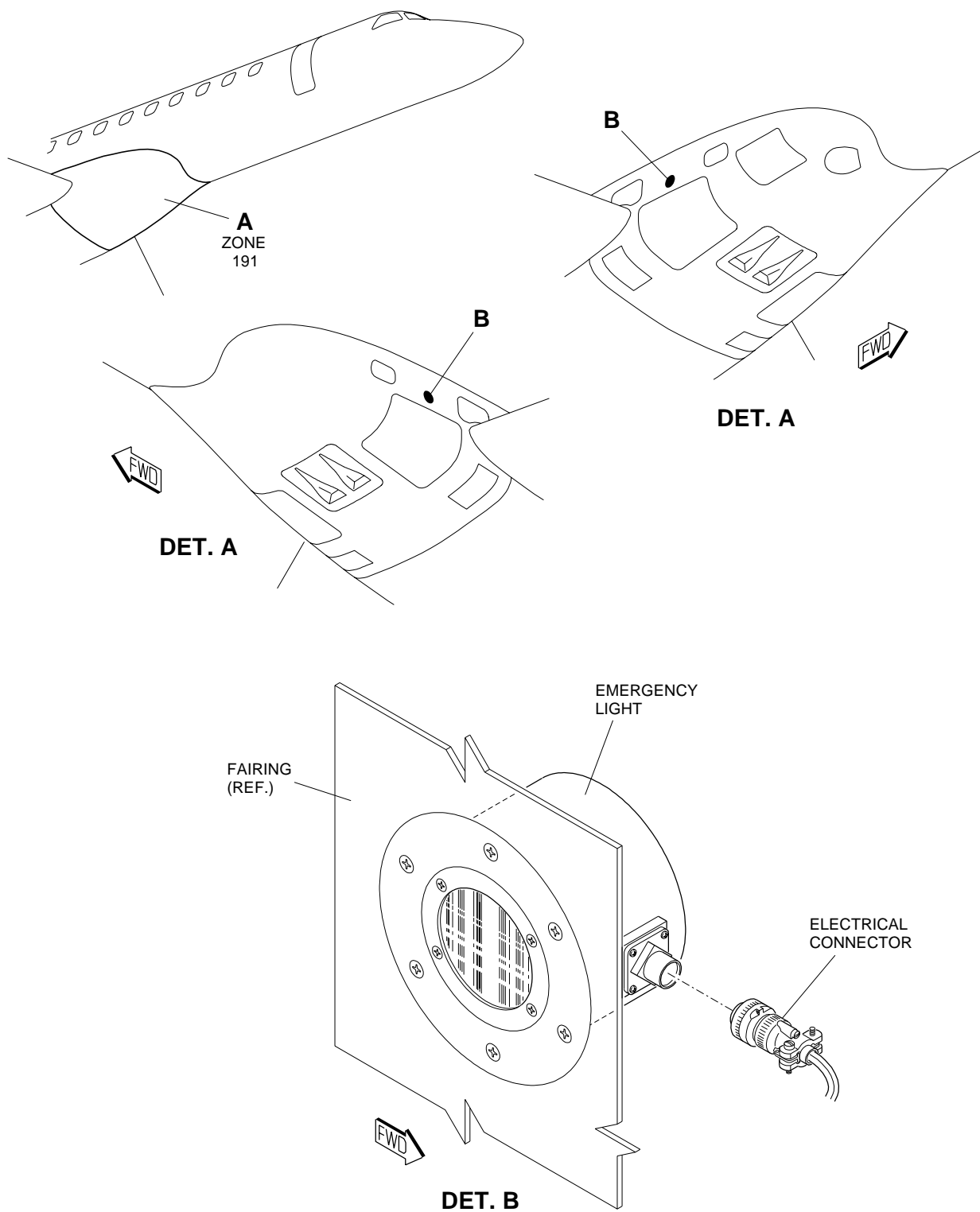


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**EFFECTIVITY: ALL**

Forward Wing-to-Fuselage Fairing - Removal/Installation

Figure 401 - Sheet 3



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TASK 53-04-01-400-801-A

EFFECTIVITY: ALL

## 3. FWD WING-TO-FUSELAGE FAIRING - INSTALLATION

### A. General

(1) This procedure gives the instructions to install the forward wing-to-fuselage fairing.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 20-10-01/200	- MAINTENANCE PRACTICES
AMM TASK 20-13-21-700-801-A/200	ELECTRICAL BONDING TEST - STANDARD PROCEDURES
AMM TASK 21-25-01-400-801-A/400	RAM AIR VALVE - INSTALLATION
AMM TASK 28-41-00-200-801-A/600	-
AMM TASK 33-44-00-700-801-A/500	INSPECTION LIGHTS - OPERATIONAL TEST
AMM TASK 33-50-00-700-801-A/500	EMERGENCY LIGHTS - OPERATIONAL CHECK
IPC 53-04-00	FAIRINGS WING/FUSELAGE
SRM 51-20-01-PR	-

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191EL (LH side)	Forward wing-to-fuselage attachment area
191	191FR (RH side)	Forward wing-to-fuselage attachment area
191	191GL	Forward wing-to-fuselage attachment area
191	191BR	Forward wing-to-fuselage fairing

### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench	To tighten the screws	
Commercially available	Workstand	To get access to the work area	

### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Protective Gloves	For protection of technician's hands	1



(Continued)

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Safety Goggles	For protection of technician's eyes	1

**F. Consumable Materials**

SPECIFICATION (BRAND)	DESCRIPTION	QTY
A-A-59173	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
ASTM-D-740	Methyl Ethyl Ketone - MEK	AR
Commercially available	Scotch Brite Sponge	AR

**G. Expendable Parts**

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Gasket	IPC 53-04-00	AR

**H. Persons Recommended**

QTY	FUNCTION	PLACE
4	Do the task	Forward wing-to-fuselage attachment area

**I. Installation (Figure 401)**

**SUBTASK 420-002-A**

- (1) Do an inspection on the fuel quantity indication harness, according to AMM TASK 28-41-00-200-801-A/600.

**NOTE:** The inspection of fuel quantity indication harness is part of Critical Design Configuration Control Limitations (CDCCL) in the airworthiness limitations of the aircraft maintenance program.

- (2) Apply Molykote DC-33 light grease to the faying surface of the forward wing-to-fuselage fairing (3).
- (3) Install the forward wing-to-fuselage fairing (3).
- (4) Install the screws (1) that attach the forward wing-to-fuselage fairing (3) applying the correct torque. Refer to (Figure 401); Sheet 1; SECTIONS B-B, C-C, D-D, and E-E.

**NOTE:** For torque, refer to [AMM MPP 20-10-01/200](#).

- (5) Remove protection caps from all the disconnected electrical connectors.
- (6) Connect the electrical connector to the emergency light (LH and RH). Refer to (Figure 401); Sheet 3.
- (7) Connect the electrical connector to the inspection light (LH and RH).
- (8) Connect the electrical connector (9) to the light case (8). Refer to (Figure 401); Sheet 2; DET. B.
- (9) Install the formed plate (13). Refer to (Figure 401); Sheet 2; DET. E.
- (10) Install the screws (10) that attach the microswitch assembly (11) to the support (12). Refer to (Figure 401); Sheet 2; DET. D.
- (11) Install access panels (AMM MPP 06-41-01/100):
  - 191EL (LH side) (2).
  - 191FR (RH side) (5).
- (12) Install the RAM AIR access panel (4), according to [AMM TASK 21-25-01-400-801-A/400](#).
- (13) There are different methods to do the aerodynamic sealing in the forward wing-to-fuselage 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 changes with the environmental conditions.  
Refer to SRM 51-20-01-PR.
  - (b) Acceleration of 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 changes with the environmental conditions.  
Refer to SRM 51-20-01-PR.
  - (c) Application of aluminum tape after 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 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.

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

4 Remove the aluminum tape after 10 days.

J. Follow-on

*SUBTASK 842-002-A*

(1) On the overhead circuit breaker panel, remove the DO-NOT-CLOSE tags and close these circuit breakers:

- DEFUELING
- FUEL PUMP 2A
- FUEL QTY IND 1/2
- REFUELING 1/2/3
- START 1/2
- RAM AIR

(2) Do the operational test of the microswitch installed. (11).

(3) Do the operational check of the emergency light (LH and RH), according to [AMM TASK 33-50-00-700-801-A/500](#).

(4) Do the operational check of the inspection light, according to [AMM TASK 33-44-00-700-801-A/500](#).

(5) Do the electrical-bonding test procedure as given in [AMM TASK 20-13-21-700-801-A/200](#).

