



AIRCRAFT
MAINTENANCE MANUAL

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 FAIRING - REMOVAL	ALL
53-04-01-400-801-A	FWD WING-TO-FUSELAGE FAIRING - INSTALLATION	ALL



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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	-
AMM TASK 21-25-01-000-801-A/400	RAM AIR VALVE - REMOVAL
AMM TASK 28-23-09-000-801-A/400	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



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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
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):

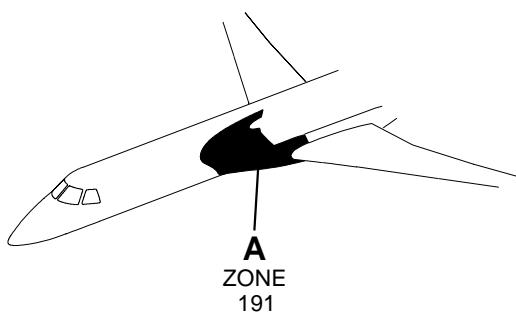
- 191EL (LH side) (2).
 - 191FR (RH side) (5).
- (4) Disconnect the electrical connector from the emergency lights (LH and RH). Refer to [Figure 401](#); Sheet 3; DET. B.
- (5) Disconnect the electrical connector from the inspection lights (LH and RH).
- (6) Remove the light cover screws (6) and the 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 [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

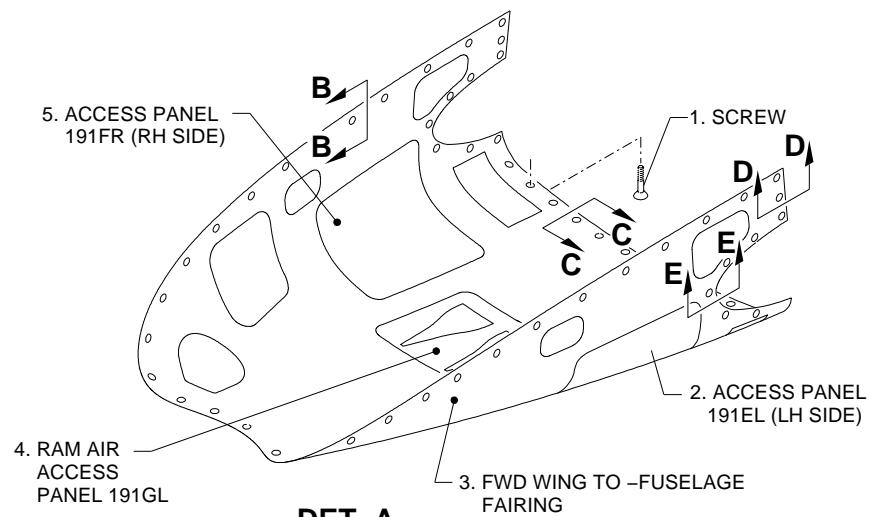
Forward Wing-to-Fuselage Fairing - Removal/Installation

Figure 401 - Sheet 1

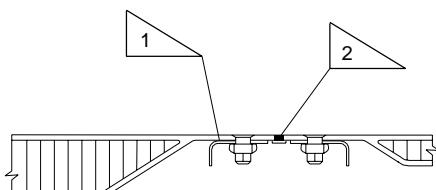


1 GREASE (DC-33 LIGHT)

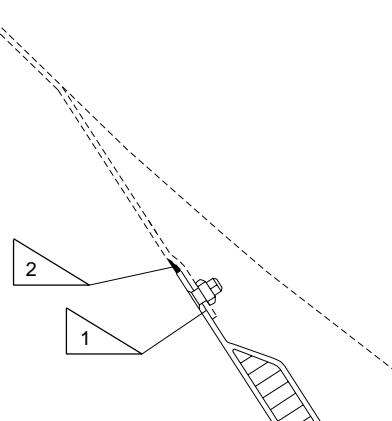
2 AERODYNAMIC SEALING



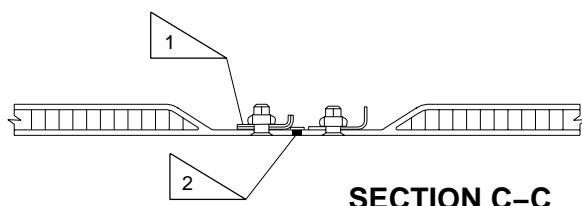
SECTION E-E



SECTION D-D

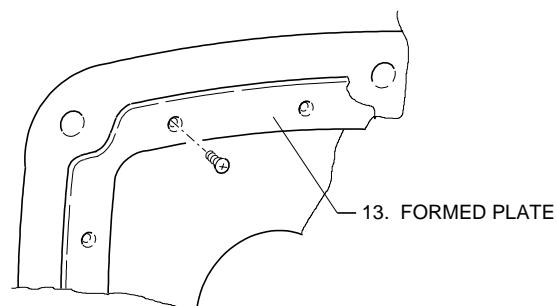
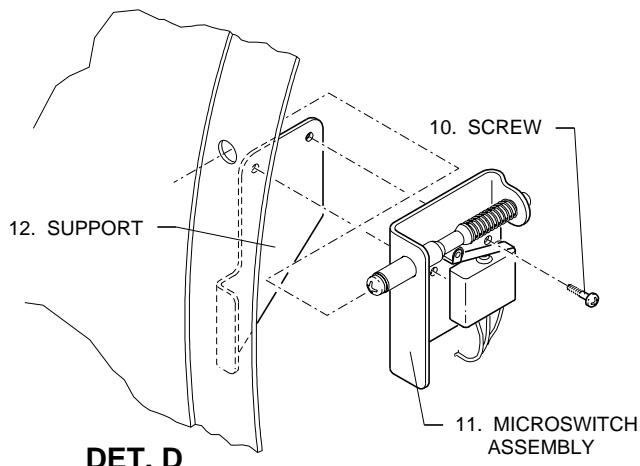
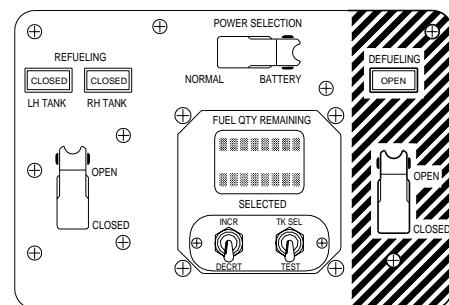
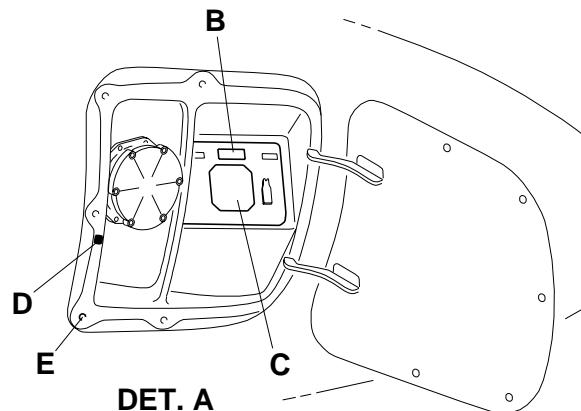
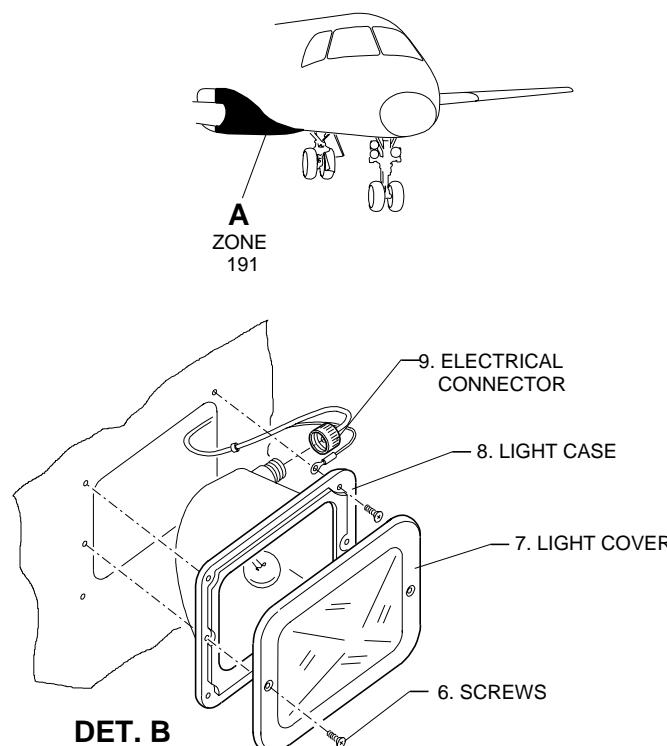


SECTION B-B



SECTION C-C

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EFFECTIVITY: ALL
Forward Wing-to-Fuselage Fairing - Removal/Installation
Figure 401 - Sheet 2


1 GREASE (DC-33 LIGHT)

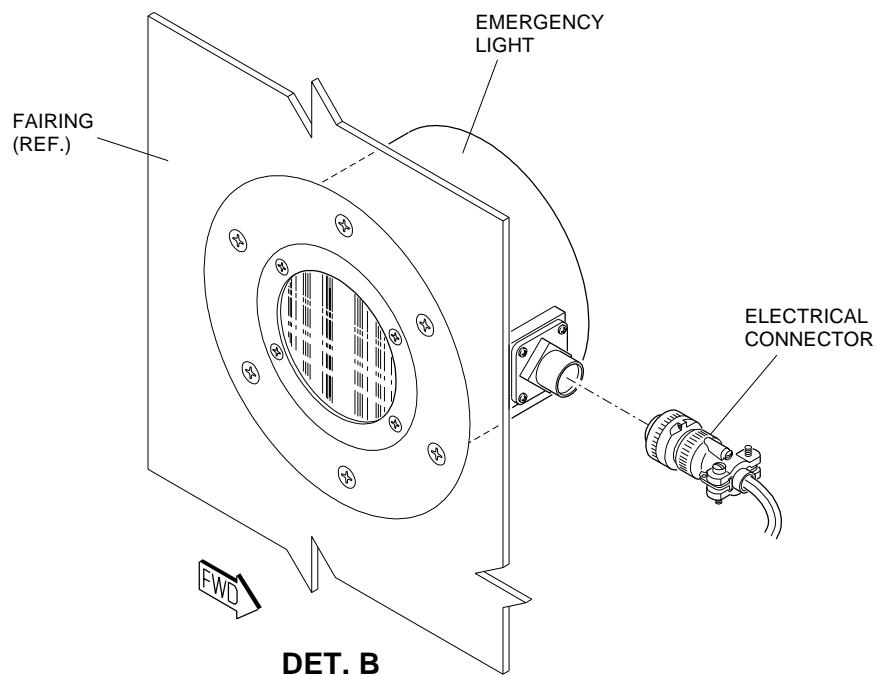
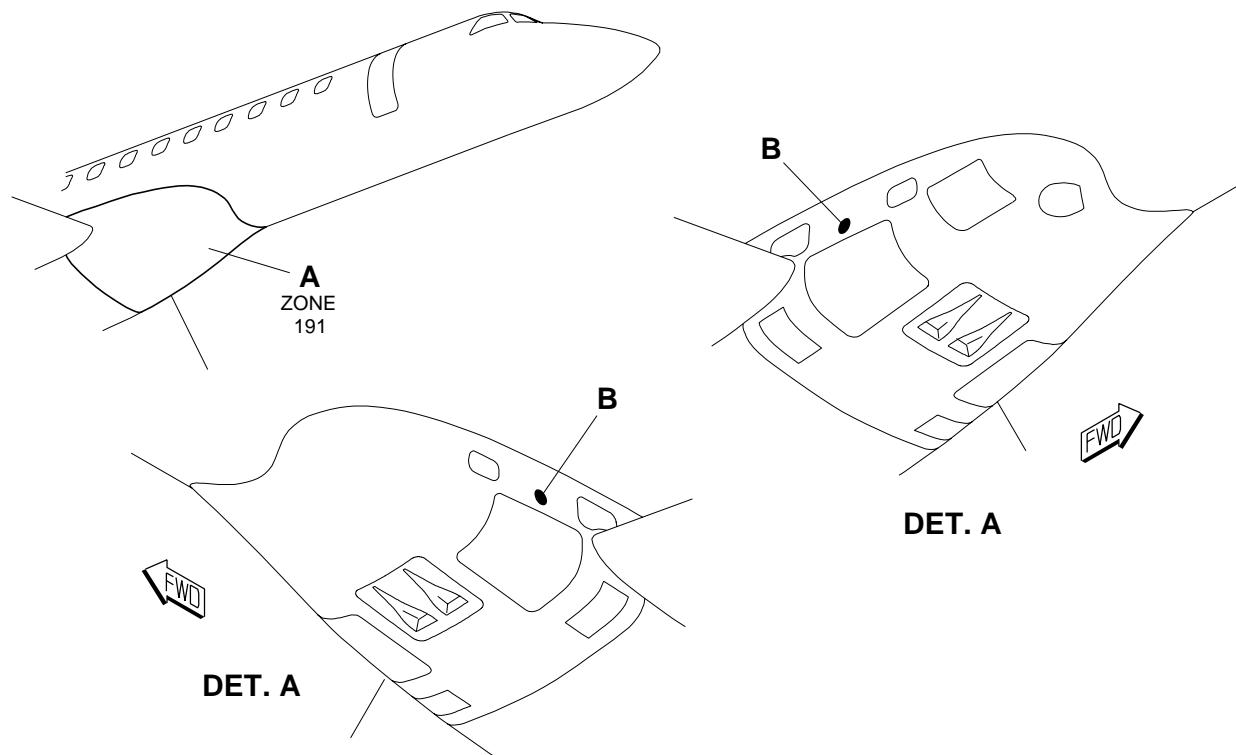
2 AERODYNAMIC SEALING (P/S870B-2)

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EFFECTIVITY: ALL

Forward Wing-to-Fuselage Fairing - Removal/Installation

Figure 401 - Sheet 3



DET. B

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AIRCRAFT
MAINTENANCE MANUAL

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](#).

