



AIRCRAFT MAINTENANCE MANUAL

FUEL-TANK ACCESS PANEL - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove/install the fuel-tank access panels.
- 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
28-11-01-000-801-A	FUEL-TANK ACCESS PANELS - REMOVAL	ACFT WITH WET WINGSTUB
28-11-01-400-801-A	FUEL-TANK ACCESS PANELS - INSTALLATION	ACFT WITH WET WINGSTUB
28-11-01-000-802-A	FUEL-TANK ACCESS PANELS - REMOVAL	ACFT WITH DRY WINGSTUB
28-11-01-400-802-A	FUEL-TANK ACCESS PANELS - INSTALLATION	ACFT WITH DRY WINGSTUB



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 28-11-01-000-801-A

EFFECTIVITY: ACFT WITH WET WINGSTUB

2. FUEL-TANK ACCESS PANELS - REMOVAL

A. General

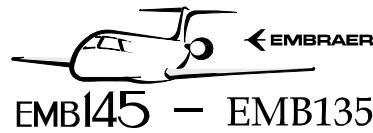
- (1) This task is applicable to the LH fuel tank and to the RH fuel tank.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 06-44-00/100	- COMPONENT LOCATION
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 12-11-01-600-802-A/300	FUEL-TANK PRESSURE DEFUELING - SERVICING
AMM TASK 12-11-03-600-801-A/300	FUEL TANK DRAINING - SERVICING

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155BZ	Wing Stub
155	155CZ	Wing Stub
155	155NZ	Wing Stub
156	156BZ	Wing Stub
156	156CZ	Wing Stub
156	156NZ	Wing Stub
192	192AL	Center lower fairing
192	192BR	Center lower fairing
531	531AB	LH Wing
531	531BB	LH Wing
531	531CB	LH Wing
531	531DB	LH Wing
531	531EZ	LH Wing
541	541AB	LH Wing
541	541BB	LH Wing
541	541CB	LH Wing
541	541DB	LH Wing
541	541EB	LH Wing
551	551AB	LH Wing
631	631AB	RH Wing
631	631BB	RH Wing
631	631CB	RH Wing
631	631DB	RH Wing



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

(Continued)

ZONE	PANEL/DOOR	LOCATION
631	631EZ	RH Wing
641	641AB	RH Wing
641	641BB	RH Wing
641	641CB	RH Wing
641	641DB	RH Wing
641	641EB	RH Wing
651	651AB	RH Wing

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	LH/RH Underwing area/wing stub under-surface

I. Preparation

SUBTASK 841-002-A

WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 28-00-00/200 TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.

- (1) Defuel ([AMM TASK 12-11-01-600-802-A/300](#)) and drain ([AMM TASK 12-11-03-600-801-A/300](#)) the fuel tanks.
- (2) Identify the fuel-tank access panels ([AMM MPP 06-44-00/100](#)) and (AMM MPP 06-41-01/100) shown below to get access to the fuel tanks as applicable.
- (3) LH wing:
 - 531AB/531BB/531CB/531DB/531EZ/541AB/541BB/541CB/541DB/541EB/551AB.
- (4) RH wing:
 - 631AB/631BB/631CB/631DB/631EZ/641AB/641BB/641CB/641DB/641EB/651AB.



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

- (5) On the center lower fairing, remove access panels 192AL/192BR to get access to fuel-tank access panels 155BZ/155CZ/155NZ/156BZ/156CZ/156NZ, on the wing stub tank undersurface.

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

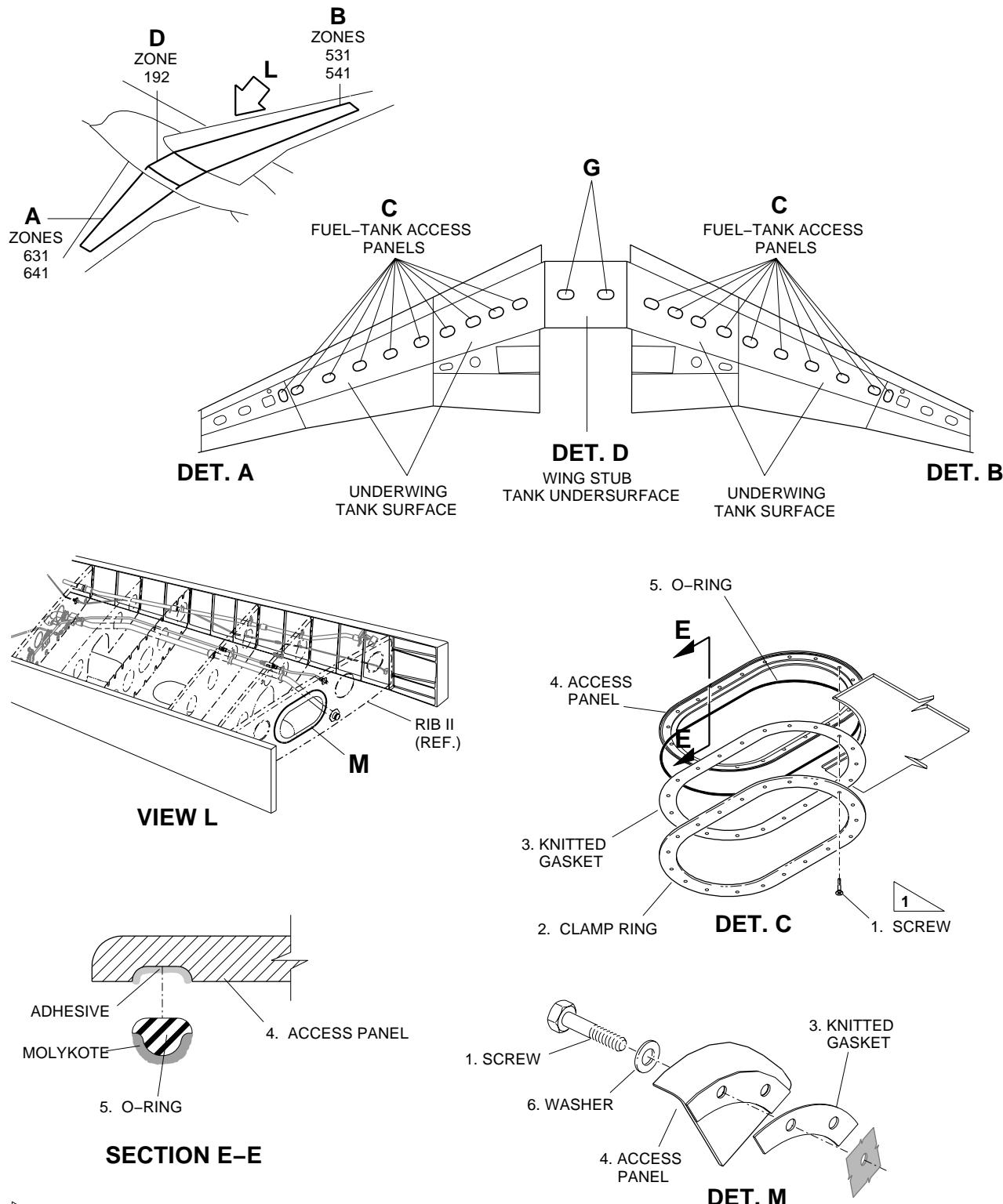
SUBTASK 020-002-A

- (1) Remove the screws (1).
- (2) Remove the washers (6).
- (3) Remove the clamp ring (2) and knitted gasket (3), if applicable.

WARNING: WHEN YOU REMOVE THE ACCESS PANELS, FUEL SPILLAGE CAN OCCUR. JET FUELS CAUSE INJURY. DO NOT LET THEM TOUCH YOU.

- (4) Remove the access panel (4) from the inner fuel tank.
- (5) Remove and discard the O-ring (5).
- (6) Use covers on the fuel tanks as a protection against contamination.

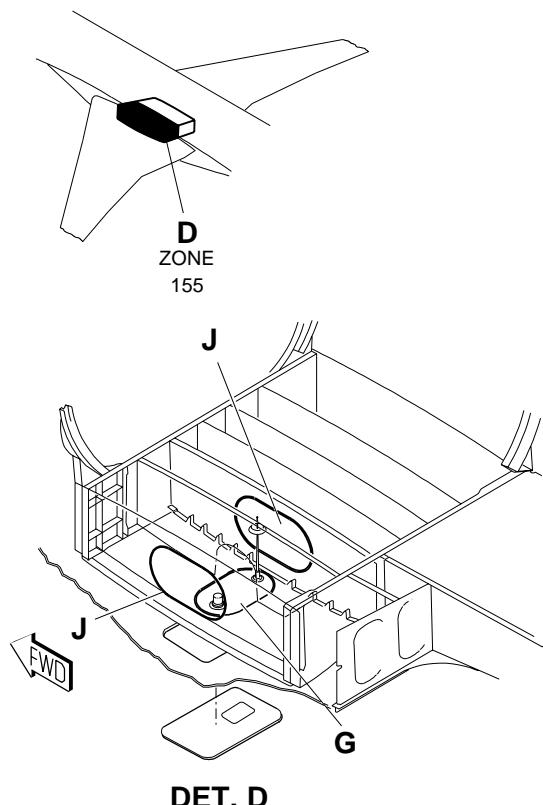
EFFECTIVITY: ACFT WITH WET WINGSTUB
Fuel-Tank Access Panels - Removal/Installation
Figure 401 - Sheet 1



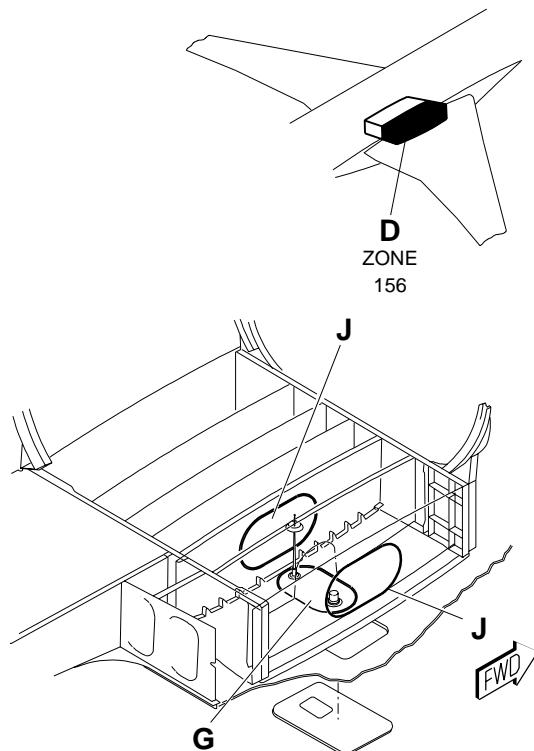
1 TORQUE: 4.5 N.m TO 5.1 N.m (40 TO 45 lb.in).

EM145AMM280126I.DGN

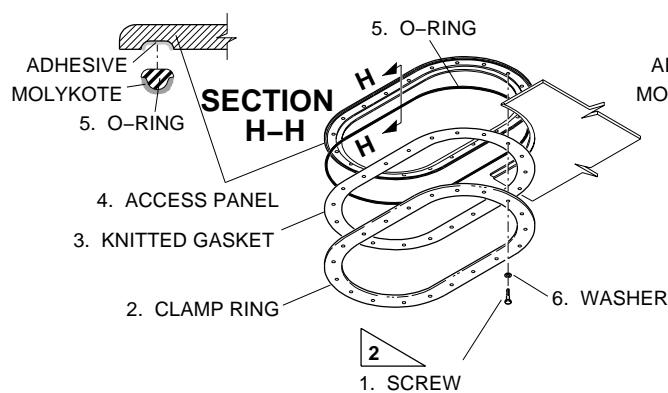
EFFECTIVITY: ACFT WITH WET WINGSTUB
 Fuel-Tank Access Panels - Removal/Installation
 Figure 401 - Sheet 2



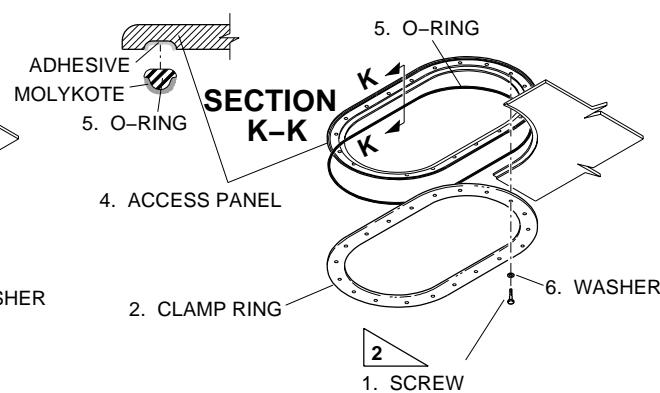
DET. D
(LH SIDE)



DET. D
(RH SIDE)



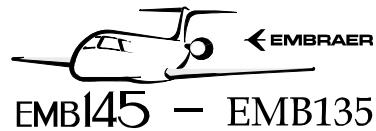
DET. G



DET. J

 TORQUE: 2.3 N.m TO 2.8 N.m (20 TO 25 lb.in)

EM145AMM280809B.DGN



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 28-11-01-400-801-A

EFFECTIVITY: ACFT WITH WET WINGSTUB

3. FUEL-TANK ACCESS PANELS - INSTALLATION

A. General

(1) This task is applicable to the LH fuel tank and to the RH fuel tank.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 12-11-01-600-801-A/300	FUEL-TANK PRESSURE REFUELING - SERVICING
AMM TASK 28-11-00-700-801-A/500	FUELED-TANK LEAK CHECK - OPERATIONAL CHECK
AMM TASK 28-41-00-200-801-A/600	-
IPC 28-23-00	FUELING /DEFUELING SYSTEM
IPC 28-42-00	MECHANICAL FUEL QUANTITY INDICATING SYSTEM
IPC 57-27-00	ACCESS DOORS

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155BZ	Wing Stub
155	155CZ	Wing Stub
155	155NZ	Wing Stub
156	156BZ	Wing Stub
156	156CZ	Wing Stub
156	156NZ	Wing Stub
192	192AL	Center lower fairing
192	192BR	Center lower fairing
531	531AB	LH Wing
531	531BB	LH Wing
531	531CB	LH Wing
531	531EZ	LH Wing
531	531DB	LH Wing
541	541AB	LH Wing
541	541BB	LH Wing
541	541CB	LH Wing
541	541DB	LH Wing
541	541EB	LH Wing
551	551AB	LH Wing



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

(Continued)

ZONE	PANEL/DOOR	LOCATION
631	631AB	RH Wing
631	631BB	RH Wing
631	631CB	RH Wing
631	631DB	RH Wing
631	631EZ	RH Wing
641	641AB	RH Wing
641	641BB	RH Wing
641	641CB	RH Wing
641	641DB	RH Wing
641	641EB	RH Wing
651	651AB	RH Wing

D. Tools and Equipment

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

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Plastic spatula	To remove the glue	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Molykote DC-33 Light	Lubricant	AR
Aero Shell No. 14 (MIL-G-25537)	Grease	AR
Aero Shell No. 22CF(MIL-PRF-81322)	Grease	AR
MMM-A-1617A	Adhesive EC 847	AR
TT-N-95, Type I or Type II	Solvent	AR

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	IPC 28-23-00	AR
O-ring	IPC 28-42-00	AR
O-ring	IPC 57-27-00	AR



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH/RH Underwing area/wing stub under-surface

I. Preparation

SUBTASK 841-003-A

WARNING: WHEN YOU REMOVE THE COVERS, FUEL SPILLAGE CAN OCCUR. JET FUELS CAUSE INJURY TO THE SKIN. DO NOT LET THEM TOUCH YOU.

- (1) Remove the covers from the fuel tanks as applicable.

J. Installation (Figure 401)

SUBTASK 420-002-A

WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 28-00-00/200 TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.

- (1) Install the fuel-tank access panel, as follows:
 - (a) Remove the old adhesive from the access panel (4) with a plastic spatula and specific solvent.
 - (b) Lightly apply the new adhesive to the access panel (4) and install the new O-ring (5).
 - (c) Lightly apply Molykote lubricant to the O-ring (5).
 - (d) Install the access panel (4) to the fuel tank.
 - (e) Remove grease from the knitted gasket (3) with a lint-free cloth moist with fuel, if applicable.
 - (f) Lightly apply Aero Shell No. 14 or No. 22CF grease to the knitted gasket (3), if applicable.
 - (g) Install the knitted gasket (3), if applicable.
 - (h) Install the clamp ring (2).
 - (i) Install the washers (6), if applicable.
 - (j) Install the screws (1).
 - (k) Torque the screws (1), if applicable. Refer to (Figure 401).

K. Follow-on

SUBTASK 842-002-A

- (1) Refuel the tanks ([AMM TASK 12-11-01-600-801-A/300](#)), as applicable.



EMB145 – EMB135

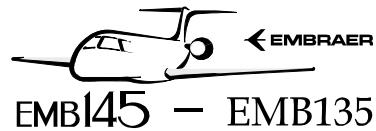
AIRCRAFT
MAINTENANCE MANUAL

- (2) Do a visual inspection on the access panel area for fuel leakage. If any signal of leakage is found, refer to [AMM TASK 28-11-00-700-801-A/500](#).

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

NOTE: The inspection of fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations of the Aircraft Maintenance Program.

- (4) Install the access panels 192AL/192BR (AMM MPP 06-41-01/100), if applicable.



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 28-11-01-000-802-A

EFFECTIVITY: ACFT WITH DRY WINGSTUB

4. FUEL-TANK ACCESS PANELS - REMOVAL

A. General

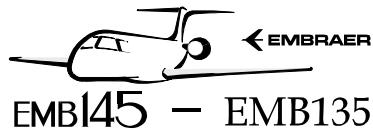
(1) This task is applicable to the LH fuel tank and to the RH fuel tank.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-44-00/100	- COMPONENT LOCATION
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 12-11-01-600-802-A/300	FUEL-TANK PRESSURE DEFUELING - SERVICING
AMM TASK 12-11-03-600-801-A/300	FUEL TANK DRAINING - SERVICING

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155BZ	Wing Stub
155	155CZ	Wing Stub
156	156BZ	Wing Stub
156	156CZ	Wing Stub
192	192AL	Center lower fairing
192	192BR	Center lower fairing
531	531AB	LH Wing
531	531BB	LH Wing
531	531CB	LH Wing
531	531DB	LH Wing
541	541AB	LH Wing
541	541BB	LH Wing
541	541CB	LH Wing
541	541DB	LH Wing
541	541EB	LH Wing
551	551AB	LH Wing
631	631AB	RH Wing
631	631BB	RH Wing
631	631CB	RH Wing
631	631DB	RH Wing
641	641AB	RH Wing
641	641BB	RH Wing
641	641CB	RH Wing
641	641DB	RH Wing



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

(Continued)

ZONE	PANEL/DOOR	LOCATION
641	641EB	RH Wing
651	651AB	RH Wing

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	LH/RH Underwing area

I. Preparation

SUBTASK 841-004-A

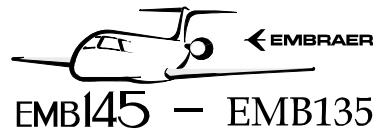
WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 28-00-00/200 TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.

- (1) Defuel ([AMM TASK 12-11-01-600-802-A/300](#)) and drain ([AMM TASK 12-11-03-600-801-A/300](#)) the fuel tanks.
- (2) Identify the fuel-tank access panels ([AMM MPP 06-44-00/100](#)) shown below to get access to the fuel tanks as applicable.
- (3) LH wing:
 - 531AB/531BB/531CB/531DB/541AB/541BB/541CB/541DB/541EB/551AB.
- (4) RH wing:
 - 631AB/631BB/631CB/631DB/641AB/641BB/641CB/641DB/641EB/651AB.
- (5) On the center lower fairing, remove access panels 192AL/192BR to get access to fuel-tank access panels 155BZ/155CZ/156BZ/156CZ, on the wing stub tank undersurface.

J. Removal ([Figure 402](#))

SUBTASK 020-003-A

- (1) Remove the screws (1).
- (2) Remove the clamp ring (2) and knitted gasket (3), if applicable.

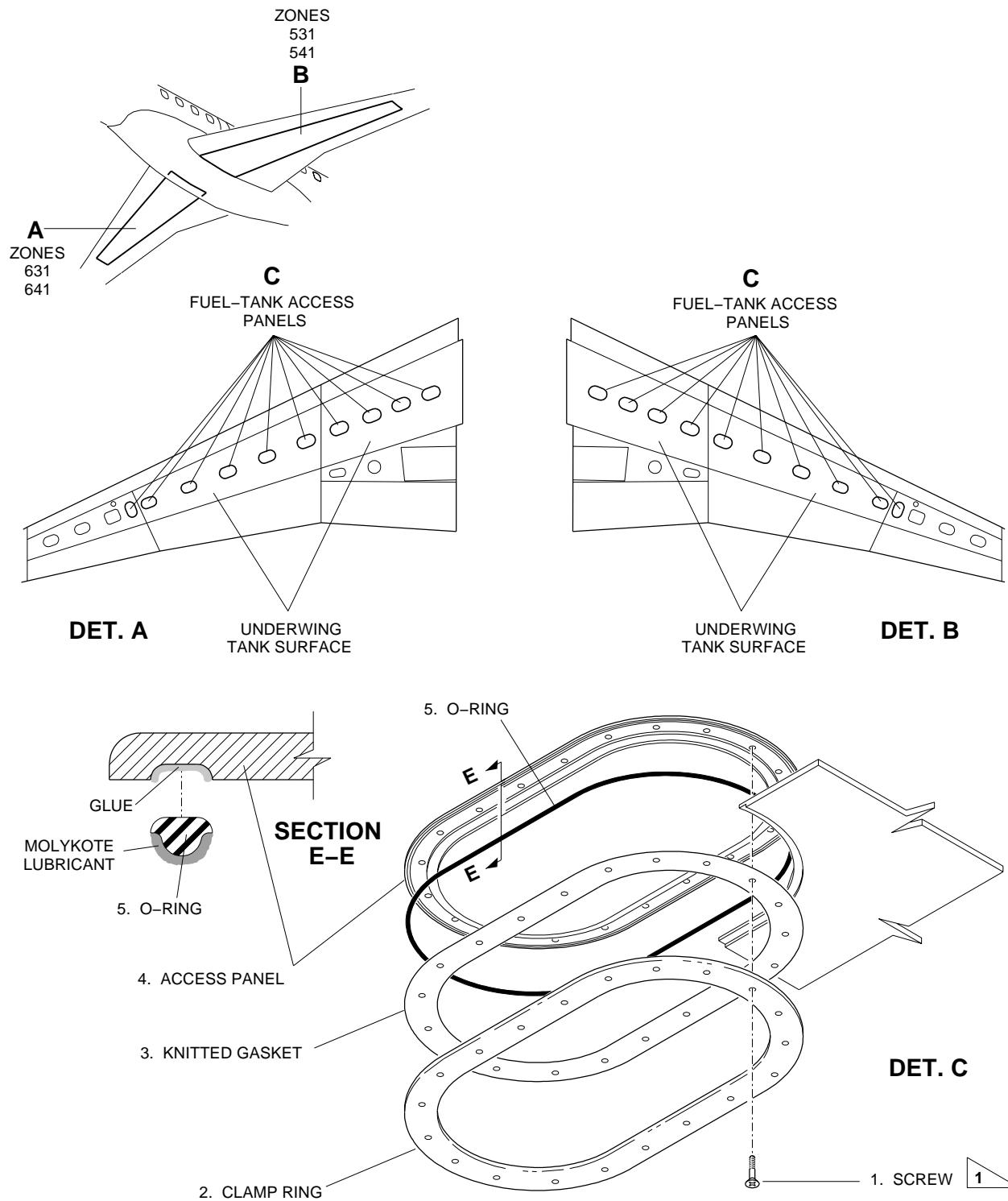


AIRCRAFT
MAINTENANCE MANUAL

WARNING: WHEN YOU REMOVE THE ACCESS PANELS, FUEL SPILLAGE CAN OCCUR. JET FUELS CAUSE INJURY TO THE SKIN. DO NOT LET THEM TOUCH YOU.

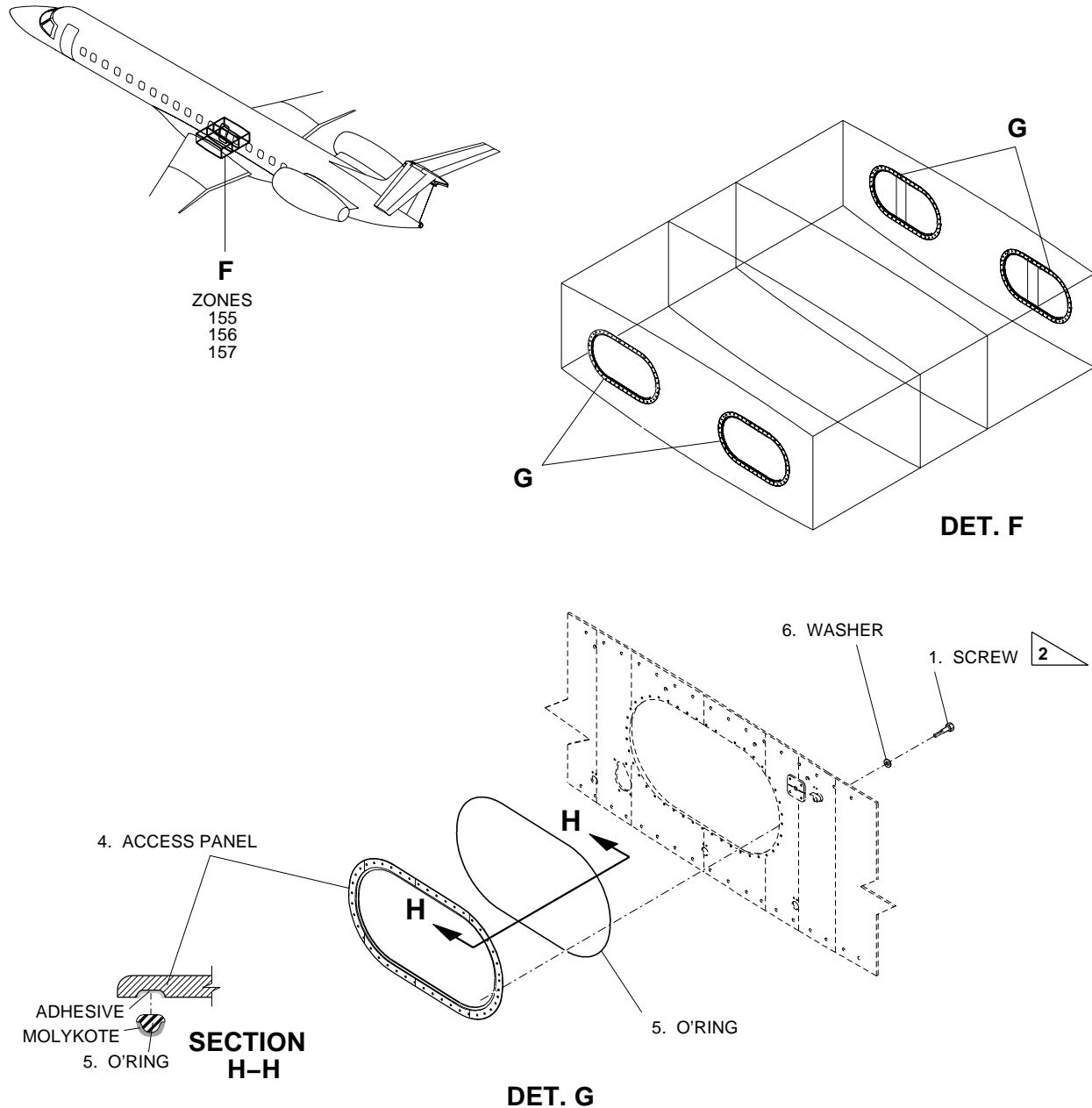
- (3) Remove the access panel (4) from the inner fuel tank.
- (4) Remove and discard the O-ring (5).
- (5) Use covers on the fuel tanks as a protection against contamination.

EFFECTIVITY: ACFT WITH DRY WINGSTUB
 Fuel-Tank Access Panels - Removal/Installation
 Figure 402 - Sheet 1



TORQUE: 4.5 N.m TO 5.1 N.m (40 TO 45 lb.in)

EM145AMM280096G.DGN

EFFECTIVITY: ACFT WITH DRY WINGSTUB
 Fuel-Tank Access Panels - Removal/Installation
 Figure 402 - Sheet 2


2 TORQUE: 2.3 N.m TO 2.8 N.m (20 TO 25 lb.in)

145AMM280944.MCE



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 28-11-01-400-802-A

EFFECTIVITY: ACFT WITH DRY WINGSTUB

5. FUEL-TANK ACCESS PANELS - INSTALLATION

A. General

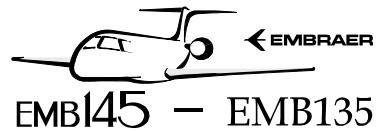
- (1) This task is applicable to the LH fuel tank and to the RH fuel tank.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 12-11-01-600-801-A/300	FUEL-TANK PRESSURE REFUELING - SERVICING
AMM TASK 28-11-00-700-803-A/500	FUELED-TANK LEAK CHECK - OPERATIONAL CHECK
AMM TASK 28-41-00-200-801-A/600	-
IPC 28-23-00	FUELING /DEFUELING SYSTEM
IPC 28-42-00	MECHANICAL FUEL QUANTITY INDICATING SYSTEM
IPC 57-27-00	ACCESS DOORS

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155BZ	Wing Stub
155	155CZ	Wing Stub
156	156BZ	Wing Stub
156	156CZ	Wing Stub
192	192AL	Center lower fairing
192	192BR	Center lower fairing
531	531AB	LH Wing
531	531BB	LH Wing
531	531CB	LH Wing
531	531DB	LH Wing
541	541AB	LH Wing
541	541BB	LH Wing
541	541CB	LH Wing
541	541DB	LH Wing
541	541EB	LH Wing
551	551AB	LH Wing
631	631AB	RH Wing
631	631BB	RH Wing
631	631CB	RH Wing



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

(Continued)

ZONE	PANEL/DOOR	LOCATION
631	631DB	RH Wing
641	641AB	RH Wing
641	641BB	RH Wing
641	641CB	RH Wing
641	641DB	RH Wing
641	641EB	RH Wing
651	651AB	RH Wing

D. Tools and Equipment

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

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Plastic spatula	To remove the glue	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Molykote DC-33 Light	Lubricant	AR
Aero Shell No. 14 (MIL-G-25537)	Grease	AR
Aero Shell No. 22CF(MIL-PRF-81322)	Grease	AR
MMM-A-1617A	Adhesive EC 847	AR
TT-N-95, Type I or Type II	Solvent	AR

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	IPC 28-23-00	AR
O-ring	IPC 28-42-00	AR
O-ring	IPC 57-27-00	AR

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH/RH Underwing area



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

I. Preparation

SUBTASK 841-005-A

WARNING: WHEN YOU REMOVE THE COVERS, FUEL SPILLAGE CAN OCCUR. JET FUELS CAUSE INJURY TO THE SKIN. DO NOT LET THEM TOUCH YOU.

- (1) Remove the covers from the fuel tanks as applicable.

J. Installation (Figure 402)

SUBTASK 420-003-A

WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 28-00-00/200 TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.

- (1) Install the fuel-tank access panel, as follows:

- (a) Remove the old glue from the access panel (4) with a plastic spatula and specific solvent.
- (b) Lightly apply the new glue to the access panel (4) and install the new O-ring (5).
- (c) Lightly apply Molykote lubricant to the O-ring (5).
- (d) Install the access panel (4) to the fuel tank.
- (e) Remove the old grease from the knitted gasket (3) with a lint-free cloth moist with fuel, if applicable.
- (f) Lightly apply Aero Shell No. 14 or No. 22CF grease to the knitted gasket (3), if applicable.
- (g) Install the knitted gasket (3) and clamp ring (2), if applicable.
- (h) Install and torque the screws (1).

K. Follow-on

SUBTASK 842-003-A

- (1) Refuel the tanks ([AMM TASK 12-11-01-600-801-A/300](#)), as applicable.
- (2) Do the fuel-tank leak check ([AMM TASK 28-11-00-700-803-A/500](#)).
- (3) Do an inspection on the fuel quantity indication harness (AMM TASK 28-41-00-200-801-A/600).

NOTE: The inspection of fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations of the Aircraft Maintenance Program.

- (4) Install the access panels 192AL/192BR (AMM MPP 06-41-01/100), if applicable.