

FUEL TANK GRAVITY REFUELING/DEFUELING - SERVICING

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to gravity-refuel/defuel the fuel tanks.
- B. The aircraft has filler caps and defueling ports for these procedures.
- C. During the fueling/defueling operation, you can monitor the fuel quantity in the tanks from the fuel refueling panel or with the direct-measuring sticks.
- D. The defueling port is installed on the undersurface of the wings or wing stub.
- E. The procedures in this section are given in the sequence below. The tasks identified with (◆) are part of the Scheduled Maintenance Requirements Document (SMRD).

<i>TASK NUMBER</i>	<i>DESCRIPTION</i>	<i>EFFECTIVITY</i>
12-11-02-600-801-A	FUEL TANK GRAVITY REFUELING - SERVICING	ALL
12-11-02-600-802-A	FUEL TANK GRAVITY DEFUELING - SERVICING	ALL

TASK 12-11-02-600-801-A

EFFECTIVITY: ALL

2. FUEL TANK GRAVITY REFUELING - SERVICING

A. General

- (1) This task gives the procedure to gravity-refuel the fuel tanks.
- (2) The tanks are gravity-refueled through the filler caps installed on the wing top surface.

NOTE: • As Fuel-System Icing Inhibitors (FSII), use Ethylene Glycol Monomethyl Ether (EGME), which obeys MIL-I-27686 (NATO S-748), ASTM-D-4171 or GOST 8313 or Di-Ethylene Glycol Monomethyl Ether (Di-EGME), which obeys MIL-I-85470A. Refer to the latest revision of the Rolls-Royce Operations Manual 71-00-00.

- You can also use the corrosion/lubricity additive found in the Qualified Product List of MIL-I-25017.
- Follow the fluid manufacturer's specifications to find the additive proportions for each fuel.

- (3) Refer to the List of the Products Approved to be Used on the Aircraft ([AMM MPP 20-30-01/200](#)).

B. References

REFERENCE	DESIGNATION
AMM MPP 06-44-00/100	- COMPONENT LOCATION
AMM MPP 12-10-00/200	- MAINTENANCE PRACTICES
AMM MPP 20-30-01/200	- MAINTENANCE PRACTICES
AMM TASK 20-40-02-910-801-A/200	STATIC GROUNDING - STANDARD PRACTICES

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
541	541FT	Wing top surface - LH
641	641FT	Wing top surface - RH

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	For fueling	1

F. Consumable Materials

<i>SPECIFICATION (BRAND)</i>	<i>DESCRIPTION</i>	<i>QTY</i>
ASTM-D-1655	JET A or JET A-1 Fuel, or other approved fuel	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

<i>QTY</i>	<i>FUNCTION</i>	<i>PLACE</i>
1	Does the task	Wing top surface

I. Preparation

SUBTASK 841-005-A

- (1) Obey the Safety Conditions for the Fuel and Oxygen System Servicing ([AMM MPP 12-10-00/200](#)).
- (2) Ground the aircraft ([AMM TASK 20-40-02-910-801-A/200](#)).

NOTE: • Do all grounding connections between the fuel source, the aircraft, and the fuel nozzle (refer to the requirements of the Local Regulatory Authorities).

- Make sure that the fueling source is with filter. If not, have a chamois-leather filter with funnel to correctly filter the fuel.

- (3) Open filler caps 541FT for the LH tank or 641FT for the RH tank ([AMM MPP 06-44-00/100](#)).

J. Gravity Refueling ([Figure 301](#))

SUBTASK 650-005-A

- (1) Put the fueling nozzle into the filler port.
- (2) Start the fueling. At the same time, monitor the fuel level in the tank.
 - (a) You can refuel the two wing tanks at the same time or first one and then the other.
 - (b) Make sure that there is no fuel imbalance when the procedure is completed.
- (3) Remove the fueling nozzle from the filler port after you have the correct fuel level in the tank.

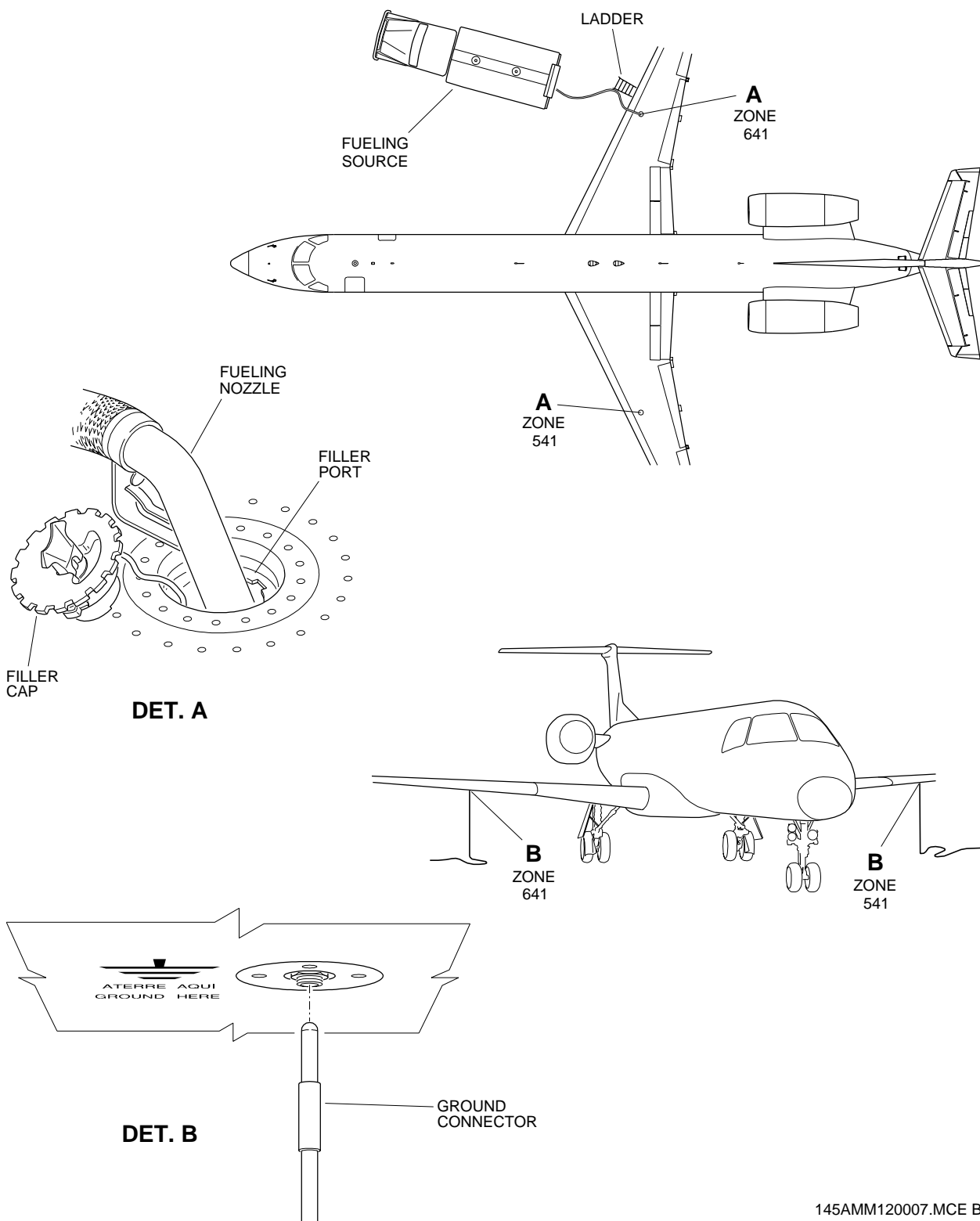
K. Follow-on

SUBTASK 842-005-A

- (1) Remove the grounding cable from the aircraft ([AMM TASK 20-40-02-910-801-A/200](#)).

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- (2) Close filler caps 541FT for the LH tank or 641FT for the RH tank ([AMM MPP 06-44-00/100](#)).

EFFECTIVITY: ALL
Gravity Fueling
Figure 301



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TASK 12-11-02-600-802-A

EFFECTIVITY: ALL

3. FUEL TANK GRAVITY DEFUELING - SERVICING

A. General

- (1) This task gives the procedure to gravity-defuel the fuel tanks.
- (2) The tanks are gravity-defueled through the defueling ports installed on the undersurface of the wings or wing stub.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 06-44-00/100	- COMPONENT LOCATION
AMM MPP 12-10-00/200	- MAINTENANCE PRACTICES
AMM TASK 07-10-00-500-801-A/200	-
AMM TASK 20-40-02-910-801-A/200	STATIC GROUNDING - STANDARD PRACTICES

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192	192AL	Wing -to-fuselage fairing undersurface - LH
192	192BR	Wing-to-fuselage fairing undersurface - RH
531	531AB	Wing undersurface - LH
631	631AB	Wing undersurface - RH

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 082	Defueling Valve	For defueling	

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	On the undersurface of the wings or wing stub

I. Preparation

SUBTASK 841-007-A

- (1) Obey the Safety Conditions for the Fuel and Oxygen System Servicing ([AMM MPP 12-10-00/200](#)).
 - (2) Ground the aircraft ([AMM TASK 20-40-02-910-801-A/200](#)).
- NOTE:** Make all grounding connections between the defueling cart, the aircraft, and the defueling valve (refer to the requirements of the Local Regulatory Authorities).
- (3) Open the cap that is on the access door 192AL for the LH wing stub and 192BR for the RH wing stub (AMM MPP 06-41-01/100) or on the access door 531AB for the LH tank and 631AB for the RH tank ([AMM MPP 06-44-00/100](#)).

CAUTION: OBEY THE DEFUELING LIMITATION RELATED TO COMPLETE AIRCRAFT JACKING (AMM TASK 07-10-00-500-801-A/200).

- (4) Put the defueling cart near the aircraft.

J. Gravity Defueling ([Figure 302](#))

SUBTASK 650-007-A

- (1) Install defueling valve GSE 082 to the defueling port.
- (2) Put the other hose end into the defueling cart.
- (3) Open the shutoff valve of defueling valve GSE 082 and do the defueling.

CAUTION: DO NOT OPERATE THE AUXILIARY FUEL PUMPS WITH THE TANKS EMPTY, BECAUSE THE LACK OF LUBRICATION WILL CAUSE DAMAGE TO THEM.

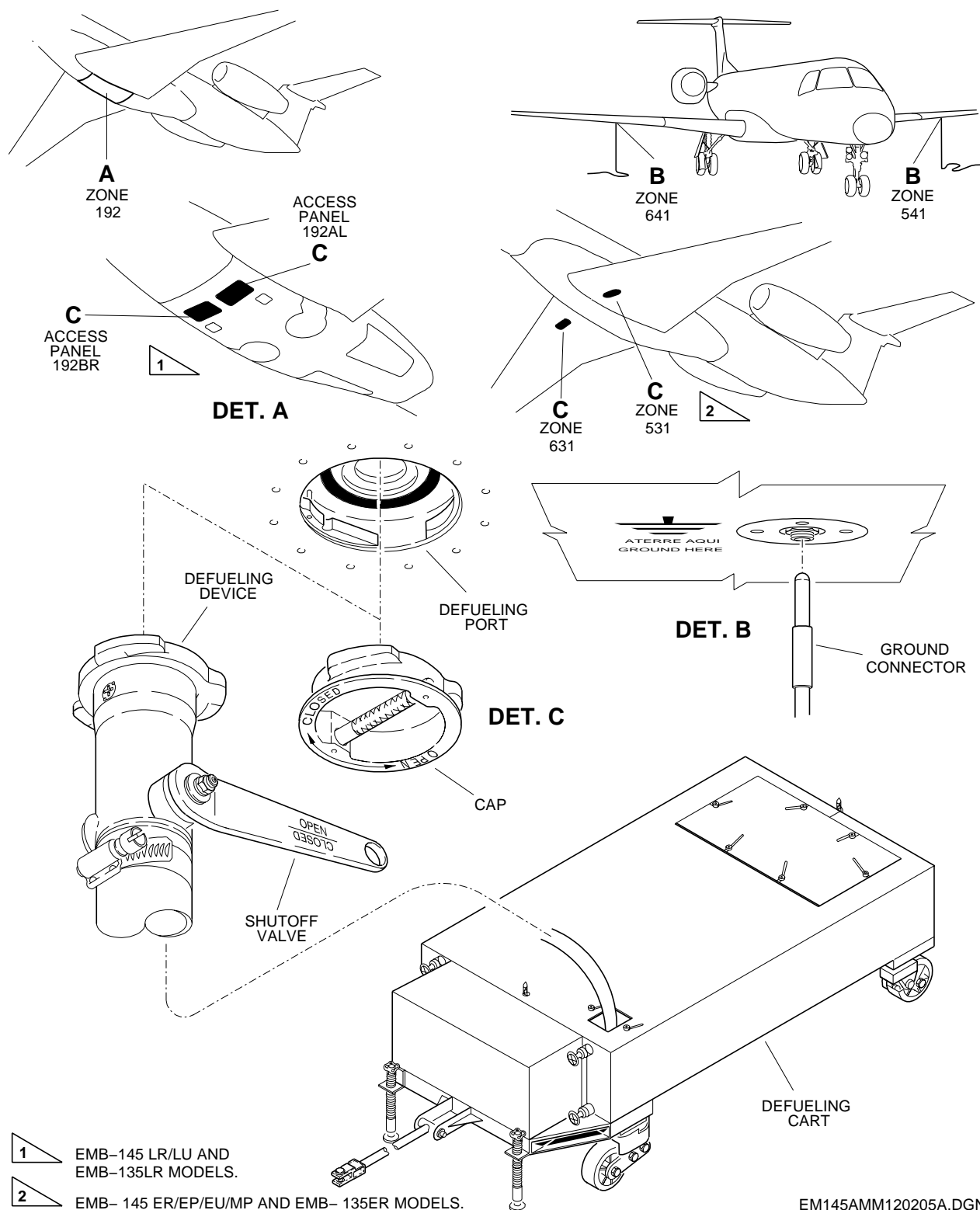
- (4) When you have the quantity of fuel to be defueled, close the shutoff valve of defueling valve GSE 082.
- (5) Remove defueling valve GSE 082 from the defueling port.

K. Follow-on

SUBTASK 842-007-A

- (1) Remove the defueling cart away from the aircraft.
- (2) Close the cap that is on the access door 192AL for the LH wing stub and 192BR for the RH wing stub (AMM MPP 06-41-01/100) or on the access door 531AB for the LH tank and 631AB for the RH tank ([AMM MPP 06-44-00/100](#)).
- (3) Remove the grounding cable from the aircraft ([AMM TASK 20-40-02-910-801-A/200](#)).

EFFECTIVITY: ALL
Gravity Defueling - Installation
Figure 302



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