

## FUEL FEED LINE - ADJUSTMENT/TEST

*EFFECTIVITY: ALL*

1. General

- A. This section gives the procedures to do a test of the fuel feed line for leaks.
- 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
28-21-11-700-801-A	FUEL-FEED-LINE LEAK TEST - OPERATIONAL TEST	ACFT WITH WET WINGSTUB
28-21-11-700-802-A	FUEL-FEED-LINE LEAK TEST - OPERATIONAL TEST	ACFT WITH DRY WINGSTUB

TASK 28-21-11-700-801-A

*EFFECTIVITY: ACFT WITH WET WINGSTUB*

## 2. FUEL-FEED-LINE LEAK TEST - OPERATIONAL TEST

### A. General

- (1) The function of this test is to make sure that there is no leaks in the connections and valves of the fuel feed line.
- (2) This operational test does checks for leaks in the connections and valves in the wing stub, in the tail cone compartment, in the engines, and in the engine fuel-feed-line hose.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 06-42-00/100	-
AMM MPP 06-43-00/100	- COMPONENT LOCATION
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM MPP 71-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 28-21-10-700-801-A/500	-
AMM TASK 28-22-03-700-801-A/500	-
AMM TASK 71-12-01-000-801-A/400	ENGINE LOWER COWLING - OPENING

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155DZ/155EZ	Landing gear bay
156	156DZ/156EZ	Landing gear bay
225	225ETC	Overhead Panel
312	312AR	Tail cone compartment
413	LH Lower Cowling	LH Engine
423	RH Lower Cowling	RH Engine
414	414BB	LH pylon underside
424	424BB	RH pylon underside

### D. Tools and Equipment

Not Applicable

### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the engine	1

(Continued)

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the tail cone compartment	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Turns on/off the pump power switch and the APU master switch, and opens the circuit breakers	Cockpit
1	Sees the position of the rods of the shut-off valves and finds a possible leak in the fuel feed line in the wing stub and in the fuel shroud drains	Landing gear bay
1	Examines for possible leaks in the engine and engine pylons and in the APU fuel feed line	LH-RH Engine/LH-RH Pylon Underside/ Tail cone compartment

I. Preparation

*SUBTASK 841-002-A*

**WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN [AMM MPP 28-00-00/200](#) AND [AMM MPP 71-00-00/200](#) TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.**

- (1) On the circuit breaker panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them:
  - APU CONTROL.
  - START 1/2.
- (2) Remove the access panels shown below to get access to the fuel feed line:
  - (a) Landing gear bay:
    - 155DZ/155EZ/156DZ/156EZ (AMM MPP 06-41-01/100).
  - (b) Tail cone compartment:
    - 312AR (AMM MPP 06-42-00/100).
  - (c) LH/RH pylon underside:
    - 414BB/424BB ( [AMM MPP 06-43-00/100](#) ).
- (3) Open the lower cowling ( [AMM TASK 71-12-01-000-801-A/400](#) ) to get access to the engine.
- (4) Put the workstand and the ladder in the work area.

- (5) Energize the aircraft with the DC Power Supply ( [AMM TASK 20-40-01-860-801-A/200](#)).

J. Fuel-Feed-Line Leak Test - Operational Test ([Figure 501](#)) ([Figure 502](#)) ([Figure 503](#))

*SUBTASK 790-002-A*

**CAUTION:** DO NOT TURN ON THE FUEL PUMPS WITHOUT FUEL IN THE TANK. IF YOU DO, THE FUEL PUMPS WILL BURN.

- (1) Set the two pump power switches (1) to the ON position.
- (2) Set the APU master switch (2) to the ON position.
- (3) Do a check to make sure that the position indicator of the defueling shut-off valve (3) and of the cross-feed valve (4) are in the CLOSED position.
- (4) Do a check to make sure that the indicator position of the APU fuel-shut-off valve (5) and of the right/left engine shut-off valves (6) and (7) are in the OPEN position.
- (5) Do a visual check on the connections and valves for leaks in the rear wing stub (8).
- (6) Do a visual check on the fuel-line shroud drain (9) for leaks.
- (7) Do a visual check on the engine fuel-feed line hose (10) for leaks.
- (8) Do a visual check on the fuel pumps and metering unit (FPMU) (11) for leaks.
- (9) Do a visual check on the engine low-pressure switches (12) for leaks.
- (10) Do a visual check on the APU fuel line (13) for leaks.
- (11) If applicable, repair the fuel feed line as necessary to remove the leak(s). Do the check again and make sure that there is no leak.

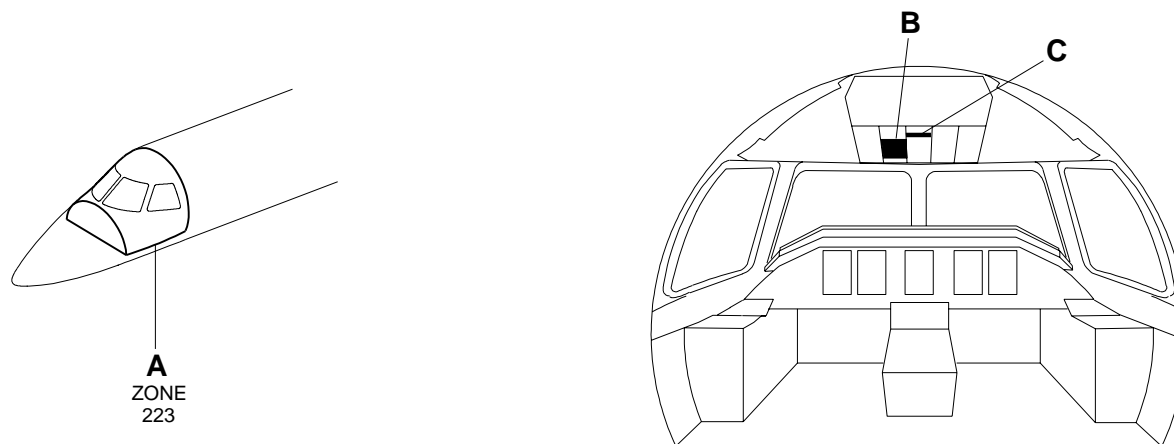
K. Follow-on

*SUBTASK 842-002-A*

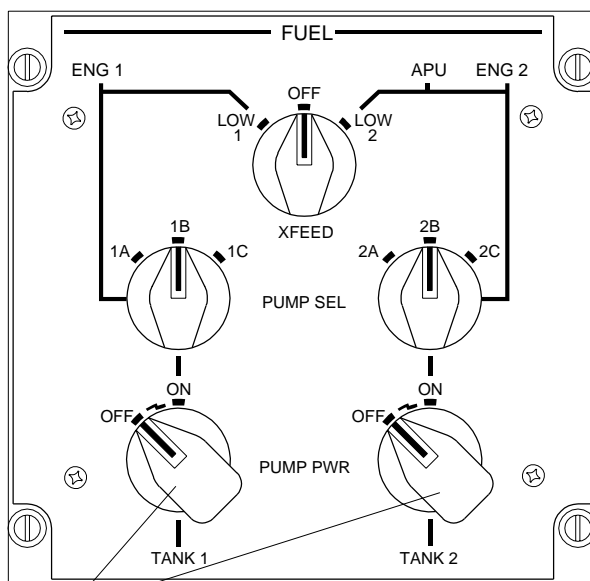
- (1) If there is a leak in the fuel-line-shroud drain (9), do the engine fuel-feed-line-shroud leak test (AMM TASK 28-21-10-700-801-A/500) and the APU fuel-feed-line-shroud leak test (AMM TASK 28-22-03-700-801-A/500) to find the location of the leak and repair.
- (2) On the circuit breaker panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them:
  - APU CONTROL.
  - START 1/2.
- (3) Set the two pump power switches (1) to the OFF position.
- (4) Set the APU master switch (2) to the OFF position.
- (5) Install the access panels shown below:
  - (a) Landing gear bay:

- 155DZ/155EZ/156DZ/156EZ (AMM MPP 06-41-01/100).
- (b) Tail cone compartment:
  - 312AR (AMM MPP 06-42-00/100).
- (c) LH/RH pylon underside:
  - 414BB/424BB ( [AMM MPP 06-43-00/100](#)).
- (6) Close the lower cowling ( [AMM TASK 71-12-01-000-801-A/400](#)).
- (7) Remove the workstand and the ladder from the work area.
- (8) Deenergize the aircraft and remove the DC Power Supply ( [AMM TASK 20-40-01-860-801-A/200](#)).

**EFFECTIVITY: ACFT WITH WET WINGSTUB**  
Fuel-Feed-Line Leak Test - Component Locations  
Figure 501

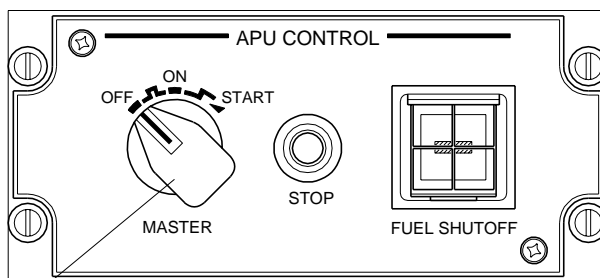


**DET. A**



**DET. B**

1. PUMP POWER SWITCH

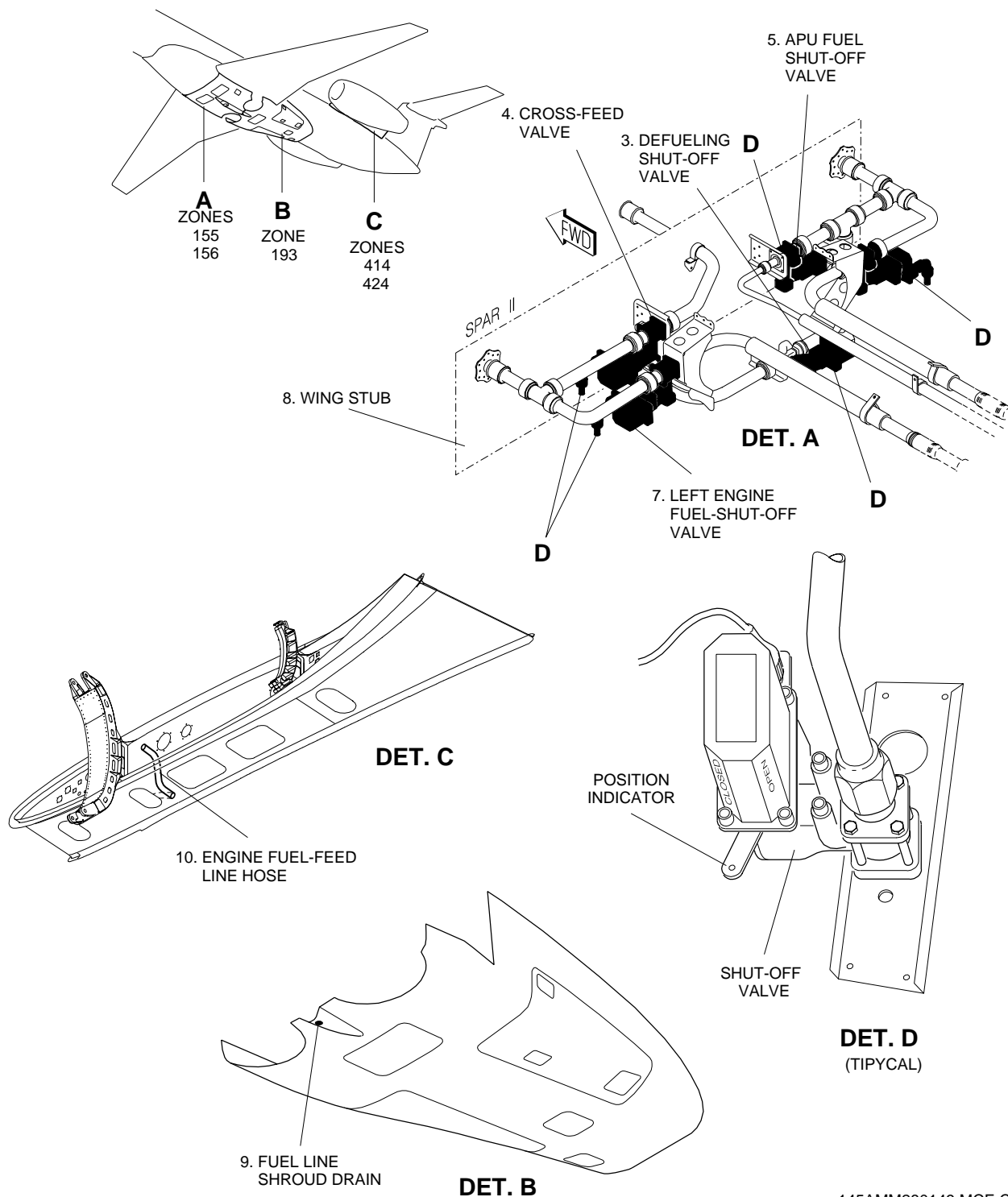


**DET. C**

2. APU MASTER SWITCH

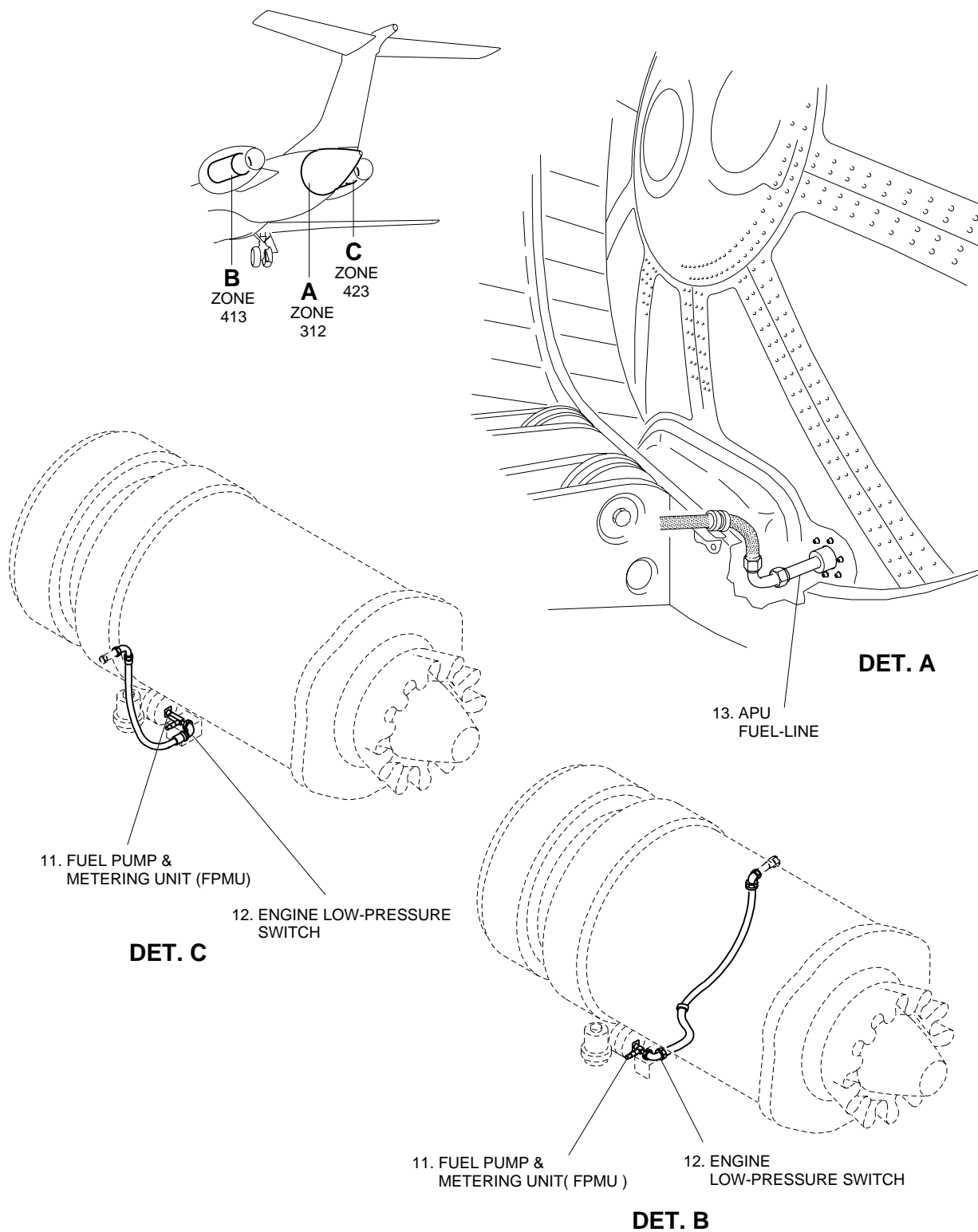
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*EFFECTIVITY: ACFT WITH WET WINGSTUB*  
Fuel-Feed-Line Leak Test - Component Locations  
Figure 502



145AMM280149.MCE C

**EFFECTIVITY: ACFT WITH WET WINGSTUB**  
Fuel-Feed-Line Leak Test - Component Locations  
Figure 503



145AMM280072.MCE B



TASK 28-21-11-700-802-A

*EFFECTIVITY: ACFT WITH DRY WINGSTUB*

### 3. FUEL-FEED-LINE LEAK TEST - OPERATIONAL TEST

#### A. General

- (1) The function of this test is to make sure that there is no leaks in the connections and valves of the fuel feed line.
- (2) This operational test does checks for leaks in the connections and valves in the wing stub, in the tail cone compartment, in the engines, and in the engine fuel-feed-line hose.

#### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 06-42-00/100	-
AMM MPP 06-43-00/100	- COMPONENT LOCATION
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM MPP 71-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 28-21-10-700-801-A/500	-
AMM TASK 28-22-03-700-801-A/500	-
AMM TASK 71-12-01-000-801-A/400	ENGINE LOWER COWLING - OPENING

#### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192	192AL	Center lower fairing
192	192BR	Center lower fairing
225	225ETC	Overhead Panel
312	312AR	Tail cone compartment
413	LH Lower Cowling	LH Engine
423	RH Lower Cowling	RH Engine
414	414BB	LH pylon underside
424	424BB	RH pylon underside

#### D. Tools and Equipment

Not Applicable

#### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the engine	1

(Continued)

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the tail cone compartment	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Turns on/off the pump power switch and the APU master switch, and opens the circuit breakers	Cockpit
1	Sees the position of the rods of the shut-off valves and finds a possible leak in the fuel feed line in the wing stub and in the fuel shroud drains	Center lower fairing
1	Find a possible leak in the engine and engine pylons and in the APU fuel feed line	LH-RH Engine/LH-RH Pylon Underside/ Tail cone compartment

I. Preparation

SUBTASK 841-003-A

**WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN [AMM MPP 28-00-00/200](#) AND [AMM MPP 71-00-00/200](#) TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.**

- (1) On the circuit breaker panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them:
  - APU CONTROL.
  - START 1/2.
- (2) Remove the access panels shown below to get access to the fuel feed line:
  - (a) Center lower fairing:
    - 192AL/192BR (AMM MPP 06-41-01/100).
  - (b) Tail cone compartment:
    - 312AR (AMM MPP 06-42-00/100).
  - (c) LH/RH pylon underside:
    - 414BB/424BB ( [AMM MPP 06-43-00/100](#)).
- (3) Open the lower cowling ( [AMM TASK 71-12-01-000-801-A/400](#)) to get access to the engine.
- (4) Put the workstand and the ladder in the work area.

- (5) Energize the aircraft with the DC Power Supply ( [AMM TASK 20-40-01-860-801-A/200](#)).

J. Fuel-Feed-Line Leak Test - Operational Test ([Figure 504](#)) (Figure 501) (Figure 503)  
*SUBTASK 790-003-A*

**CAUTION:** DO NOT TURN ON THE FUEL PUMPS WITHOUT FUEL IN THE TANK. IF YOU DO, THE FUEL PUMPS WILL BURN.

- (1) Set the two pump power switches (1) to the ON position.
- (2) Set the APU master switch (2) to the ON position.
- (3) Do a check to make sure that the position indicator of the defueling shut-off valve (3) and of the cross-feed valve (4) are in the CLOSED position.
- (4) Do a check to make sure that the position indicators of the APU fuel-shut-off valve (5) and of the right/left engine shut-off valves (6) and (7) are in the OPEN position.
- (5) Do a visual check on the connections and valves for leaks in the rear wing stub (8).
- (6) Do a visual check on the fuel-line shroud drain (9) for leaks.
- (7) Do a visual check on the engine fuel-feed line hose (10) for leaks.
- (8) Do a visual check on the fuel pumps and metering unit (FPMU) (11) for leaks.
- (9) Do a visual check on the engine low-pressure switches (12) for leaks.
- (10) Do a visual check on the APU fuel line (13) for leaks.
- (11) If applicable, repair the fuel feed line as necessary to remove the leak(s). Do the check again and make sure that there is no leak.

K. Follow-on  
*SUBTASK 842-003-A*

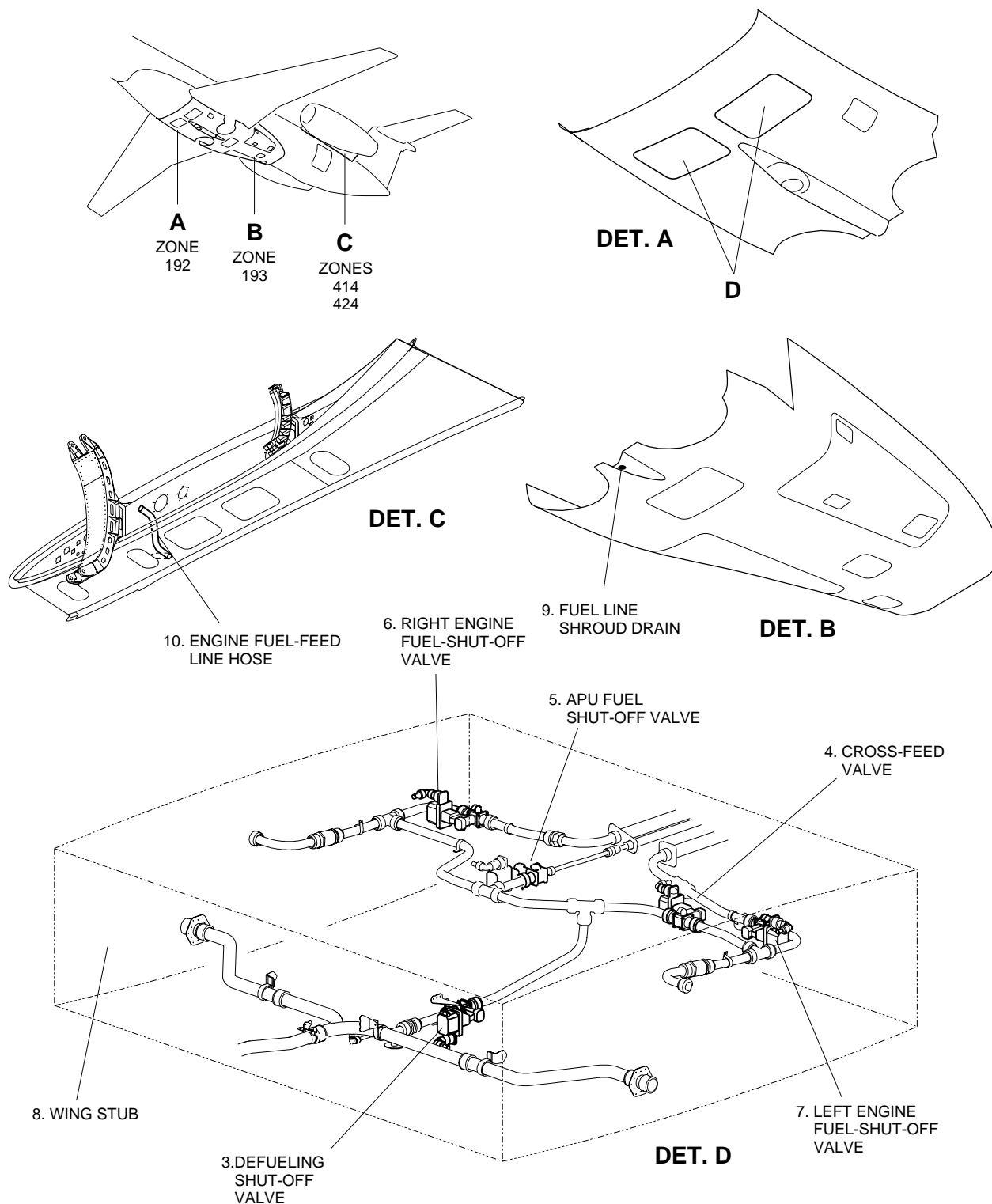
- (1) If there is a leak in the fuel-line-shroud drain (9), do the engine fuel-feed-line-shroud leak test (AMM TASK 28-21-10-700-801-A/500) and the APU fuel-feed-line-shroud leak test (AMM TASK 28-22-03-700-801-A/500) to find the location of the leak and repair.
- (2) On the circuit breaker panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them:
  - APU CONTROL.
  - START 1/2.
- (3) Set the two pump power switches (1) to the OFF position.
- (4) Set the APU master switch (2) to the OFF position.
- (5) Install the access panels shown below:
  - (a) Center lower fairing:

- 192AL/192BR (AMM MPP 06-41-01/100).
- (b) Tail cone compartment:
  - 312AR (AMM MPP 06-42-00/100).
- (c) LH/RH pylon underside:
  - 414BB/424BB ( [AMM MPP 06-43-00/100](#)).
- (6) Close the lower cowling ( [AMM TASK 71-12-01-000-801-A/400](#)).
- (7) Remove the workstand and the ladder from the work area.
- (8) Deenergize the aircraft and remove the DC Power Supply ( [AMM TASK 20-40-01-860-801-A/200](#)).

**EFFECTIVITY: ACFT WITH DRY WINGSTUB**

**Fuel-Feed-Line Leak Test - Component Locations**

**Figure 504**



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