

TANK-UNIT HARNESS ASSEMBLY - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do the inspection of the tank-unit harness assembly.
- 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
28-41-03-200-801-A ♦	TANK-UNIT HARNESS ASSEMBLY - INSPECTION	ACFT WITH WET WINGSTUB
28-41-03-200-802-A ♦	TANK-UNIT HARNESS ASSEMBLY - INSPECTION	ACFT WITH DRY WINGSTUB

TASK 28-41-03-200-801-A

EFFECTIVITY: ACFT WITH WET WINGSTUB

2. TANK-UNIT HARNESS ASSEMBLY - INSPECTION

A. General

- (1) This procedure obeys the Fuel Tanks Safety and EWIS ICA requirements.
- (2) This task gives the procedure to do the detailed inspection on the tank-unit harness assembly of the wing fuel tanks, for general conditions. The purpose of this inspection is avoid a failure in this harness assembly.
- (3) This task is applicable to the LH an RH wing fuel tanks.
- (4) Avoid to unlace or move the electrical wiring and components during the detailed visual inspections.

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 12-11-01-600-801-A/300	FUEL-TANK PRESSURE REFUELING - SERVICING
AMM TASK 12-11-01-600-802-A/300	FUEL-TANK PRESSURE DEFUELING - SERVICING
AMM TASK 12-11-02-600-802-A/300	FUEL TANK GRAVITY DEFUELING - SERVICING
AMM TASK 28-11-01-000-801-A/400	FUEL-TANK ACCESS PANELS - REMOVAL
AMM TASK 28-11-01-400-801-A/400	FUEL-TANK ACCESS PANELS - INSTALLATION
WM 20-22-00	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155BZ	Wing stub
156	156BZ	Wing stub
157	-	Wing stub
192	192AL	Fuselage external access doors and panels
192	192BR	Fuselage external access doors and panels
531	531AB	Left-wing access doors and panels
531	531BB	Left-wing access doors and panels
531	531CB	Left-wing access doors and panels
531	531DB	Left-wing access doors and panels
531	531EZ	Left-wing access doors and panels
541	541AB	Left-wing access doors and panels
541	541BB	Left-wing access doors and panels

(Continued)

ZONE	PANEL/DOOR	LOCATION
541	541CB	Left-wing access doors and panels
541	541DB	Left-wing access doors and panels
631	631AB	Right-wing access doors and panels
631	631BB	Right-wing access doors and panels
631	631CB	Right-wing access doors and panels
631	631DB	Right-wing access doors and panels
631	631EZ	Right-wing access doors and panels
641	641AB	Right-wing access doors and panels
641	641BB	Right-wing access doors and panels
641	641CB	Right-wing access doors and panels
641	641DB	Right-wing access doors and panels

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
2	Do the task	Wing fuel tank

I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the aircraft is safe for maintenance.

WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM 28-00-00/201 TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.

- (2) Defuel the tanks ([AMM TASK 12-11-01-600-802-A/300](#)) ([AMM TASK 12-11-02-600-802-A/300](#)).
- (3) On the circuit breaker panel, open the FUEL QTY 1/2 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (4) (For aircraft with HLEIS) On the circuit breaker panel, open these circuit breakers and attach a DO-NOT-CLOSE tag to them:

- REFUEL1 - DC BUS;
 - REFUEL2 - DC BUS.
- (5) Open access panels (AMM MPP 06-41-01/100), ([AMM MPP 06-44-00/100](#)) and ([AMM TASK 28-11-01-000-801-A/400](#)) shown below to get access to the tank unit harness:
- (a) LH fuel tank:
 - 155BZ/192AL/531AB/531BB/531CB/531DB/531EZ/541AB/541BB/541CB/541DB.
 - (b) RH fuel tank:
 - 156BZ/192BR/631AB/631BB/631CB/631DB/631EZ/641AB/641BB/641CB/641DB.

J. Tank-Unit Harness Assembly - Inspection ([Figure 601](#))

SUBTASK 220-002-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 THE MATERIAL.

- (1) Get access to the tank-unit harness assembly inside the fuel tank.
- (2) Do a detailed inspection on the harness ([Figure 601](#)):
 - (a) On the wire jacket integrity, check for visual damage and chafing.
 - (b) On the attachment clamps, check for visual damage, correct installation, integrity and make sure that all of them are installed.
 - (c) On the terminals, check for corrosion, chafing and correct installation. Make sure that the tank unit spacer is in correct position.

NOTE: [Figure 601](#), detail F, shows various installation configurations. All of them are acceptable and no change is required.

- (d) On electrical connector, check for correct installation and loose connections.
- (e) Examine the remaining EWIS components for signs of damage, adequate installation, chafing and general condition. Refer to WM 20-22-00.

K. Follow-on

SUBTASK 842-002-A

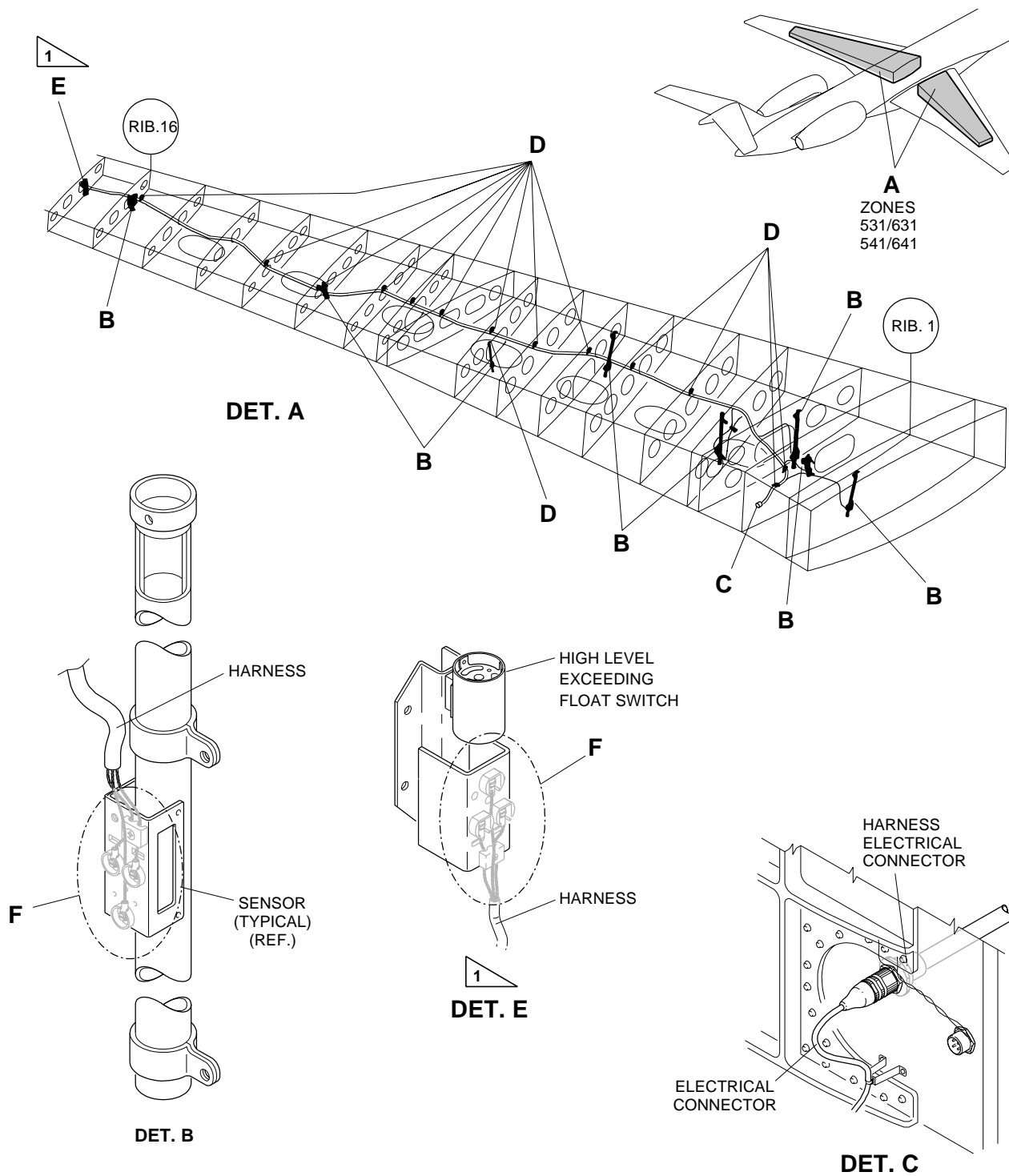
- (1) Close access panels (AMM MPP 06-41-01/100), ([AMM MPP 06-44-00/100](#)) and ([AMM TASK 28-11-01-400-801-A/400](#)):
 - (a) LH fuel tank:
 - 155BZ/192AL/531AB/531BB/531CB/531DB/531EZ/541AB/541BB/541CB/541DB.
 - (b) RH fuel tank:

- 156BZ/192BR/631AB/631BB/631CB/631DB/631EZ/641AB/641BB/641CB/641DB.
- (2) On the circuit breaker panel, close the FUEL QTY 1/2 circuit breaker and remove the DO-NOT-CLOSE tag from it.
 - (3) (For aircraft with HLEIS) On the circuit breaker panel, remove the DO-NOT-CLOSE tag and close these circuit breakers:
 - REFUEL1 - DC BUS;
 - REFUEL2 - DC BUS.
 - (4) Refuel the tanks ([AMM TASK 12-11-01-600-801-A/300](#)) as applicable.

EFFECTIVITY: ACFT WITH WET WINGSTUB

Tank-Unit Harness Assembly - Inspection

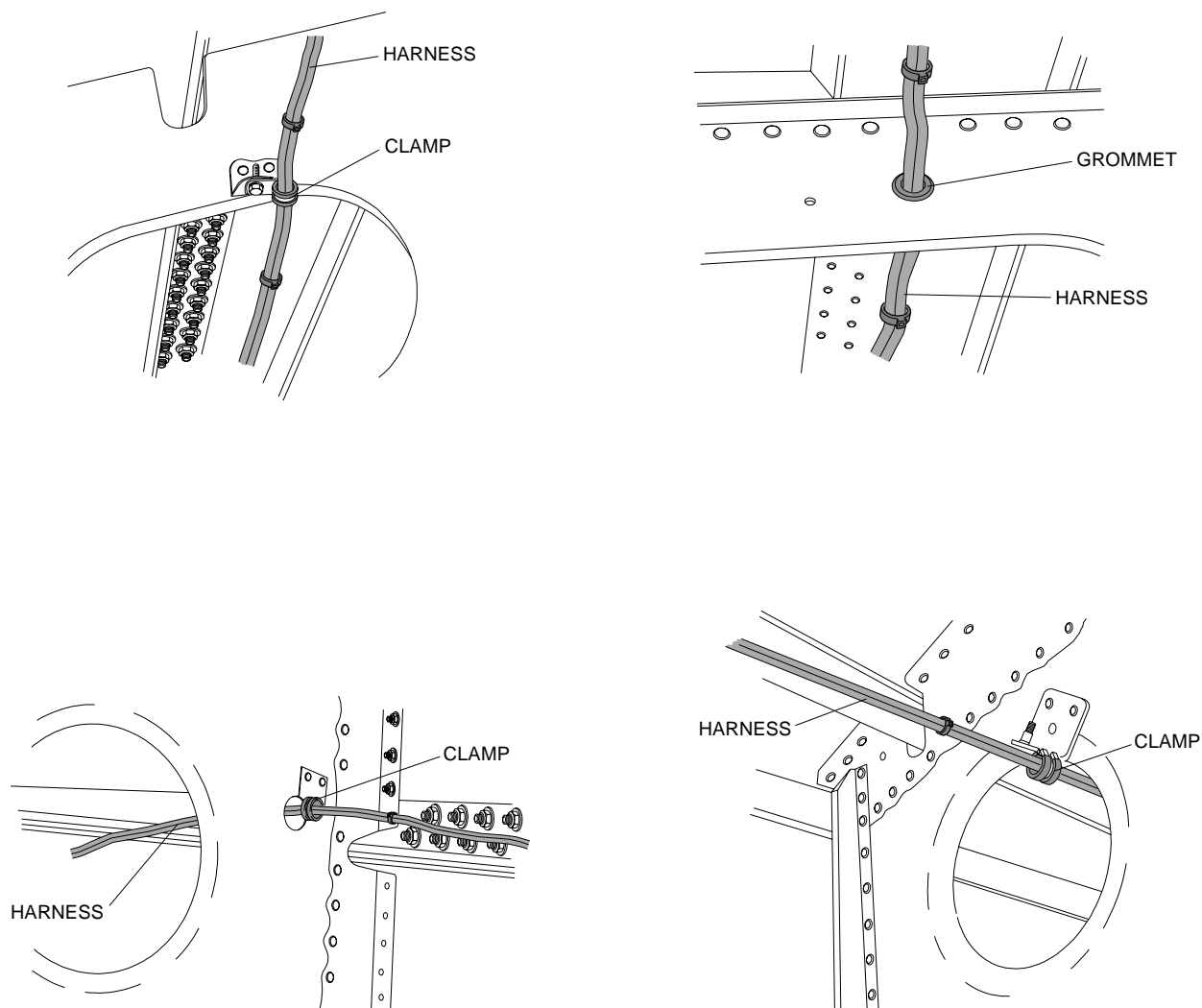
Figure 601 - Sheet 1



1 AIRCRAFT WITH HLEIS.

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EFFECTIVITY: ACFT WITH WET WINGSTUB
 Tank-Unit Harness Assembly - Inspection
 Figure 601 - Sheet 2



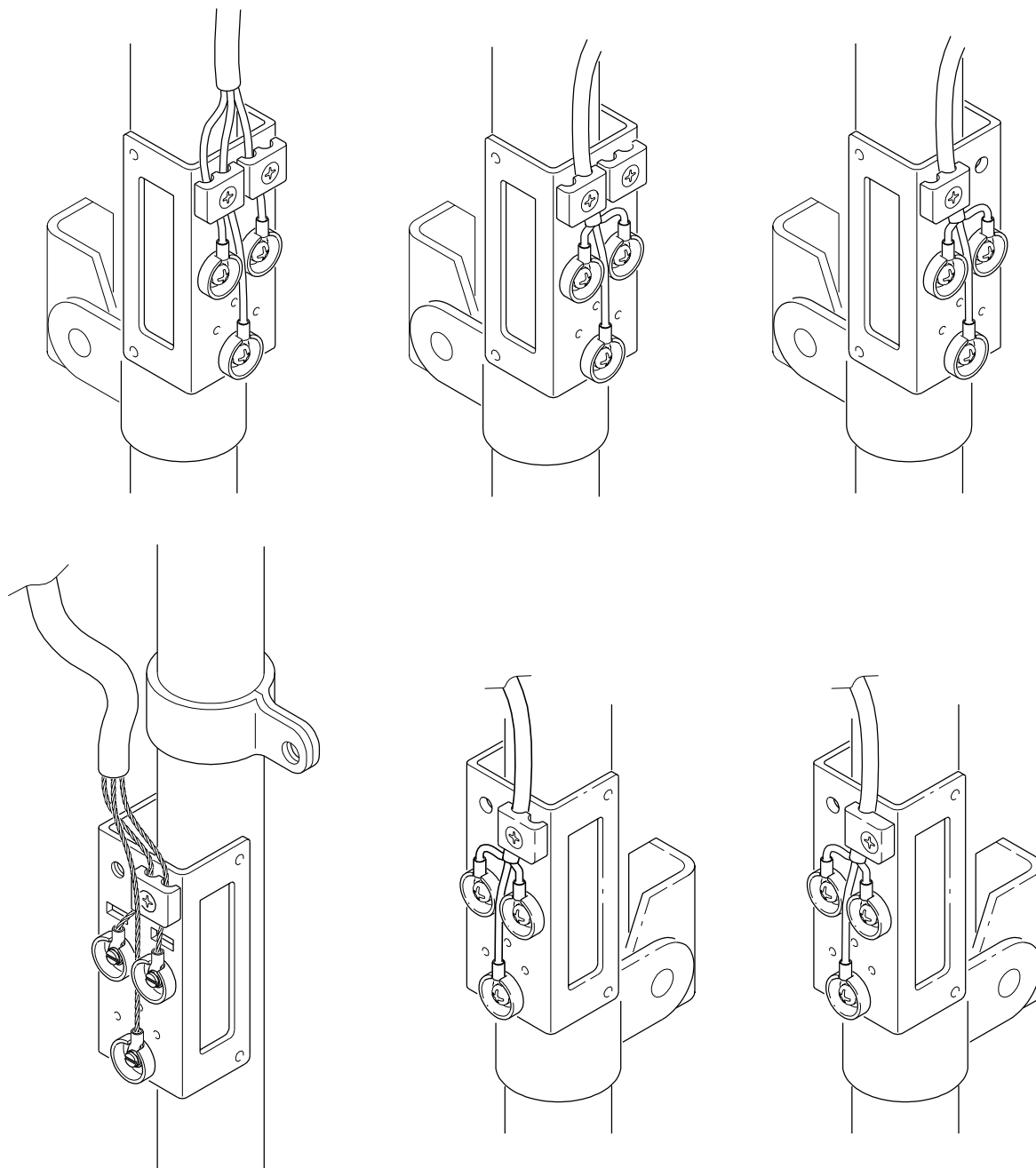
DET. D
 (HARNESS ATTACHMENTS)

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EFFECTIVITY: ACFT WITH WET WINGSTUB

Tank-Unit Harness Assembly - Inspection

Figure 601 - Sheet 3



DET. F
 (TYPICAL)

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TASK 28-41-03-200-802-A

EFFECTIVITY: ACFT WITH DRY WINGSTUB

3. TANK-UNIT HARNESS ASSEMBLY - INSPECTION

A. General

- (1) This procedure obeys the Fuel Tanks Safety and EWIS ICA requirements.
- (2) This task gives the procedure to do the detailed inspection on the tank-unit harness assembly of the wing fuel tanks, for general conditions. The purpose of this inspection is avoid a failure in this harness assembly.
- (3) This task is applicable to the LH an RH wing fuel tanks.
- (4) Avoid to unlance or move the electrical wiring and components during the detailed visual inspections.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-44-00/100	- COMPONENT LOCATION
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 12-11-01-600-801-A/300	FUEL-TANK PRESSURE REFUELING - SERVICING
AMM TASK 12-11-01-600-802-A/300	FUEL-TANK PRESSURE DEFUELING - SERVICING
AMM TASK 12-11-02-600-802-A/300	FUEL TANK GRAVITY DEFUELING - SERVICING
AMM TASK 28-11-01-000-801-A/400	FUEL-TANK ACCESS PANELS - REMOVAL
AMM TASK 28-11-01-400-801-A/400	FUEL-TANK ACCESS PANELS - INSTALLATION
WM 20-22-00	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
531	531AB	Left-wing access doors and panels
531	531BB	Left-wing access doors and panels
531	531CB	Left-wing access doors and panels
531	531DB	Left-wing access doors and panels
531	531EZ	Left-wing access doors and panels
541	541AB	Left-wing access doors and panels
541	541BB	Left-wing access doors and panels
541	541CB	Left-wing access doors and panels
541	541DB	Left-wing access doors and panels
631	631AB	Right-wing access doors and panels
631	631BB	Right-wing access doors and panels
631	631CB	Right-wing access doors and panels
631	631DB	Right-wing access doors and panels
631	631EZ	Right-wing access doors and panels

(Continued)

ZONE	PANEL/DOOR	LOCATION
641	641AB	Right-wing access doors and panels
641	641BB	Right-wing access doors and panels
641	641CB	Right-wing access doors and panels
641	641DB	Right-wing access doors and panels

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
2	Do the task	Wing fuel tank

I. Preparation

SUBTASK 841-003-A

- (1) Make sure that the aircraft is safe for maintenance.

WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM 28-00-00/201 TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.

- (2) Defuel the tanks ([AMM TASK 12-11-01-600-802-A/300](#)) ([AMM TASK 12-11-02-600-802-A/300](#)).
- (3) On the circuit breaker panel, open the FUEL QTY 1/2 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (4) (For aircraft with HLEIS) On the circuit breaker panel, open these circuit breakers and attach a DO-NOT-CLOSE tag to them:
 - REFUEL1 - DC BUS;
 - REFUEL2 - DC BUS.
- (5) Open access panels ([AMM MPP 06-44-00/100](#)) and ([AMM TASK 28-11-01-000-801-A/400](#)) shown below to get access to the tank unit harness:
 - (a) LH fuel tank:
 - 531AB/531BB/531CB/531DB/531EZ/541AB/541BB/541CB/541DB.

(b) RH fuel tank:

- 631AB/631BB/631CB/631DB/631EZ/641AB/641BB/641CB/641DB.

J. Tank-Unit Harness Assembly - Inspection ([Figure 602](#))

SUBTASK 220-003-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 THE MATERIAL.

- (1) Get access to the tank-unit harness assembly inside the fuel tank.
- (2) Do a detailed inspection on the harness ([Figure 602](#)):
 - (a) On the wire jacket integrity, check for visual damage and chafing.
 - (b) On the attachment clamps, check for visual damage, correct installation, integrity and make sure that all of them are installed.
 - (c) On the terminals, check for corrosion, chafing and correct installation. Make sure that the tank unit spacer is in correct position.

NOTE: [Figure 602](#), detail F, shows various installation configurations. All of them are acceptable and no change is required.

- (d) On electrical connector, check for correct installation and loose connections.
- (e) Examine the remaining EWIS components for signs of damage, adequate installation, chafing and general condition. Refer to WM 20-22-00.

K. Follow-on

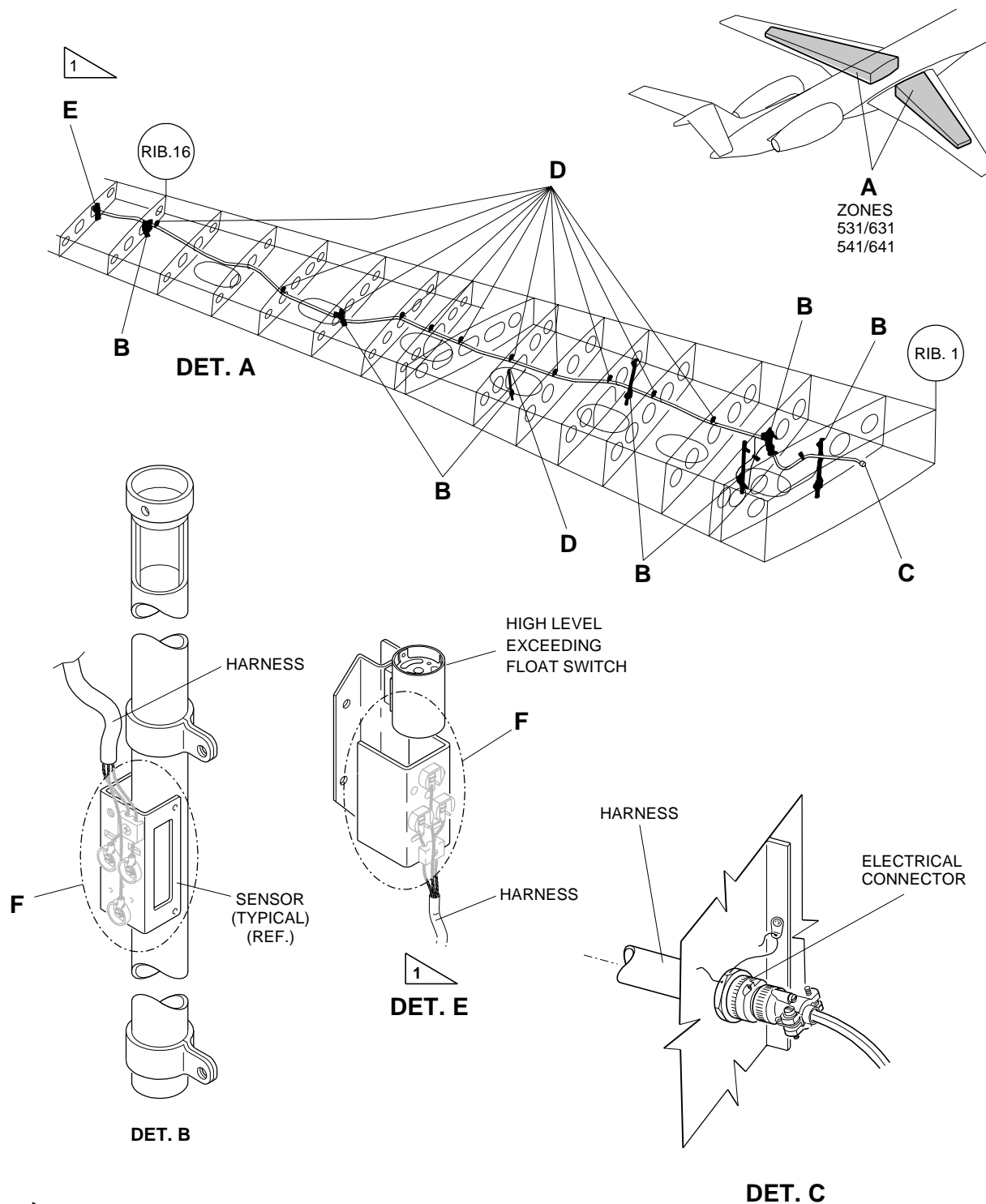
SUBTASK 842-003-A

- (1) Close access panels ([AMM MPP 06-44-00/100](#)) and ([AMM TASK 28-11-01-400-801-A/400](#)):
 - (a) LH fuel tank:
 - 531AB/531BB/531CB/531DB/531EZ/541AB/541BB/541CB/541DB.
 - (b) RH fuel tank:
 - 1631AB/631BB/631CB/631DB/631EZ/641AB/641BB/641CB/641DB.
- (2) On the circuit breaker panel, close the FUEL QTY 1/2 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (3) (For aircraft with HLEIS) On the circuit breaker panel, remove the DO-NOT-CLOSE tag and close these circuit breakers:
 - REFUEL1 - DC BUS;
 - REFUEL2 - DC BUS.
- (4) Refuel the tanks ([AMM TASK 12-11-01-600-801-A/300](#)) as applicable.

EFFECTIVITY: ACFT WITH DRY WINGSTUB

Tank-Unit Harness Assembly - Inspection

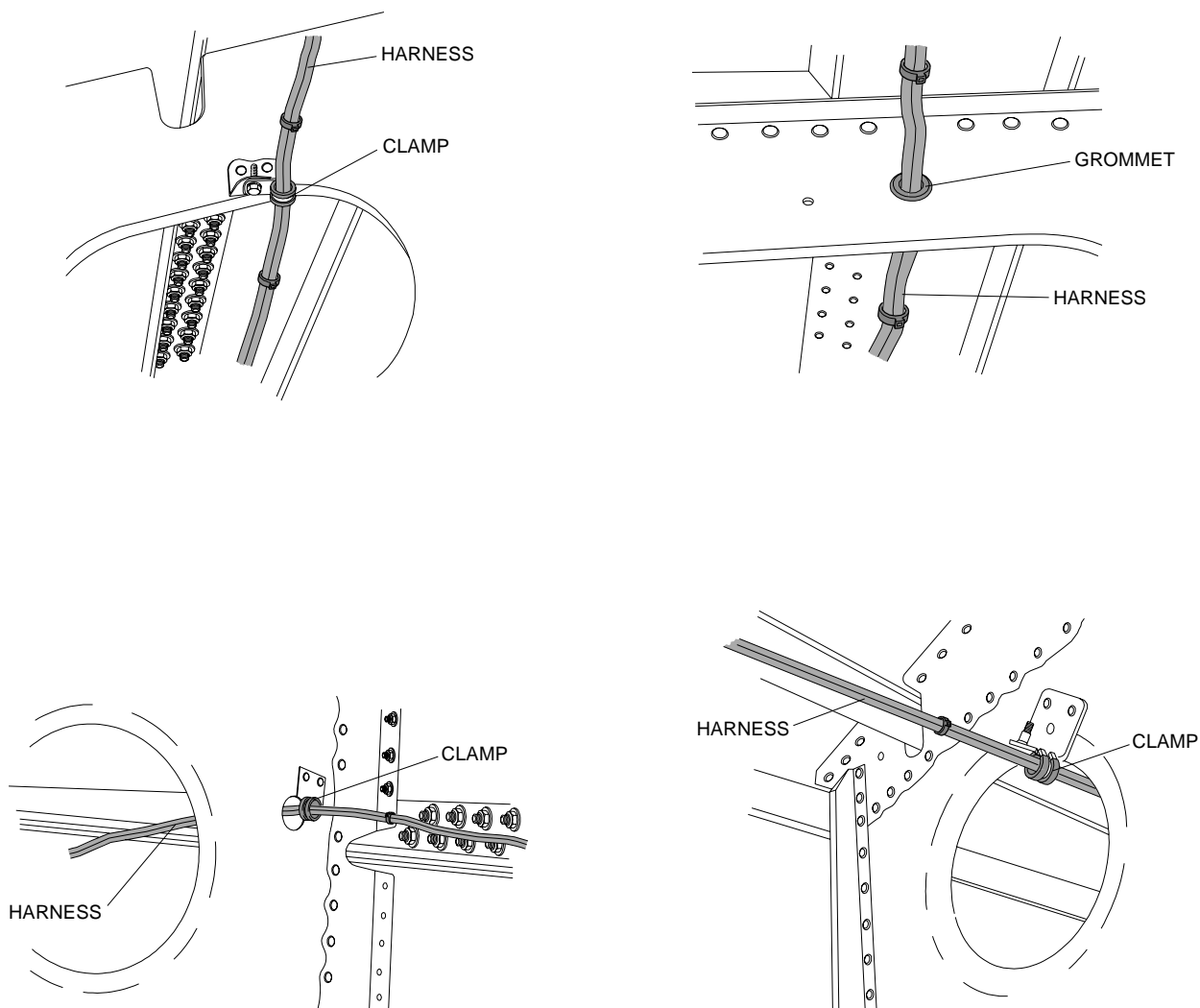
Figure 602 - Sheet 1



1 AIRCRAFT WITH HLEIS.

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EFFECTIVITY: ACFT WITH DRY WINGSTUB
Tank-Unit Harness Assembly - Inspection
Figure 602 - Sheet 2



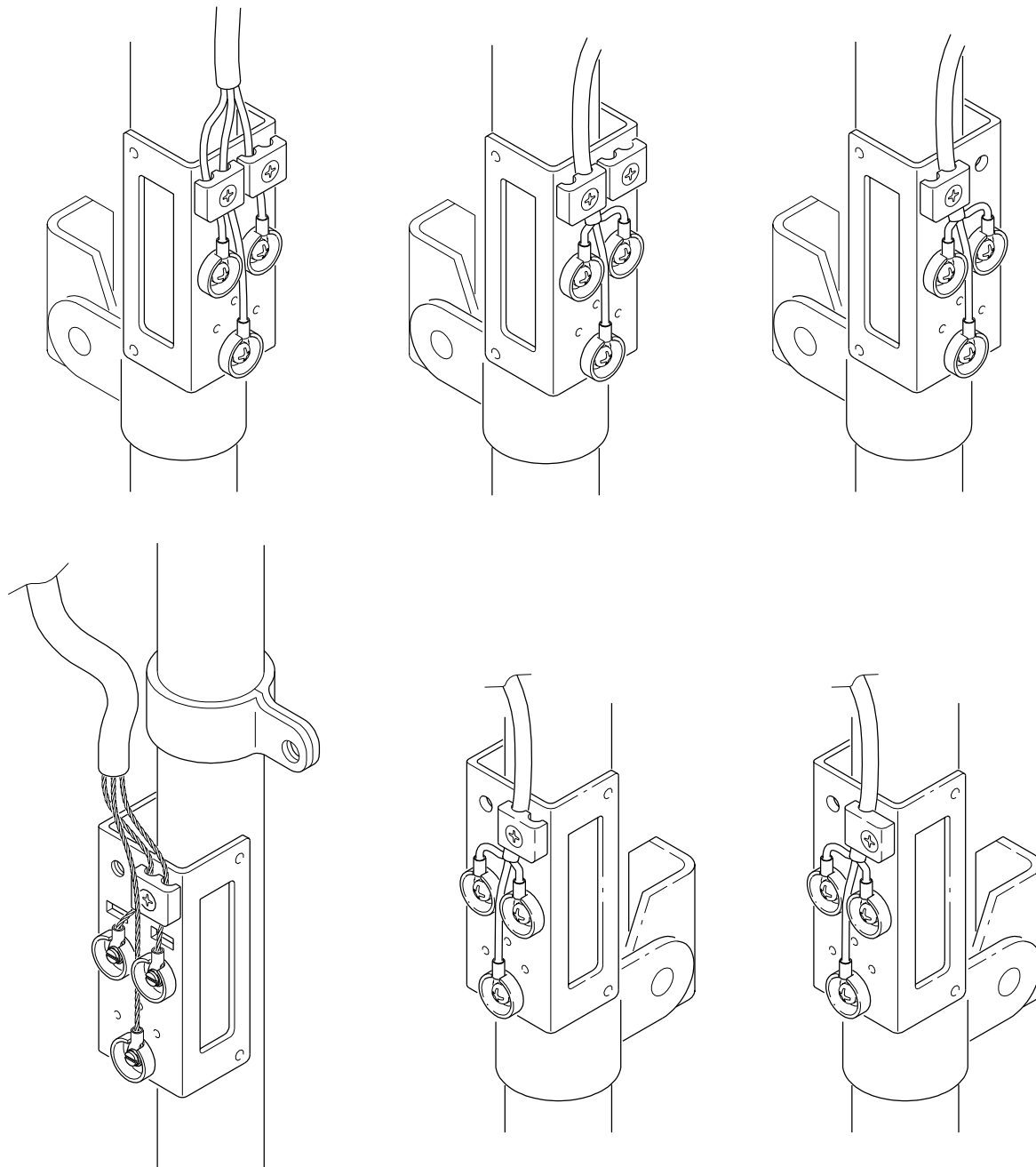
DET. D
(HARNESS ATTACHMENTS)

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EFFECTIVITY: ACFT WITH DRY WINGSTUB

Tank-Unit Harness Assembly - Inspection

Figure 602 - Sheet 3



DET. F
 (TYPICAL)

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