



## AIRCRAFT MAINTENANCE MANUAL

### LOW LEVEL SENSOR - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

#### 1. General

- A. This section gives the procedures to remove/install the low level sensors.
- 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
28-44-01-000-801-A	LOW LEVEL SENSORS - REMOVAL	ACFT WITH WET WINGSTUB
28-44-01-400-801-A	LOW LEVEL SENSORS - INSTALLATION	ACFT WITH WET WINGSTUB
28-44-01-000-802-A	LOW LEVEL SENSORS - REMOVAL	ACFT WITH DRY WINGSTUB
28-44-01-400-802-A	LOW LEVEL SENSORS - INSTALLATION	ACFT WITH DRY WINGSTUB



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TASK 28-44-01-000-801-A

EFFECTIVITY: ACFT WITH WET WINGSTUB

2. LOW LEVEL SENSORS - 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 28-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 12-11-01-600-802-A/300	FUEL-TANK PRESSURE DEFUELING - SERVICING
AMM TASK 28-11-01-000-801-A/400	FUEL-TANK ACCESS PANELS - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155BZ	LH wing stub undersurface
156	156BZ	RH wing stub undersurface
192	192AL/192BR	Center lower fairing

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	Wing stub undersurface

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 the tanks ( [AMM TASK 12-11-01-600-802-A/300](#)).



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- (2) Remove the access panels (AMM MPP 06-41-01/100) and ([AMM TASK 28-11-01-000-801-A/400](#)) shown below to get access to the low level sensors.
  - (a) Center lower fairing:
    - 192AL/192BR.
  - (b) Wing stub undersurface:
    - 155BZ/156BZ.

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

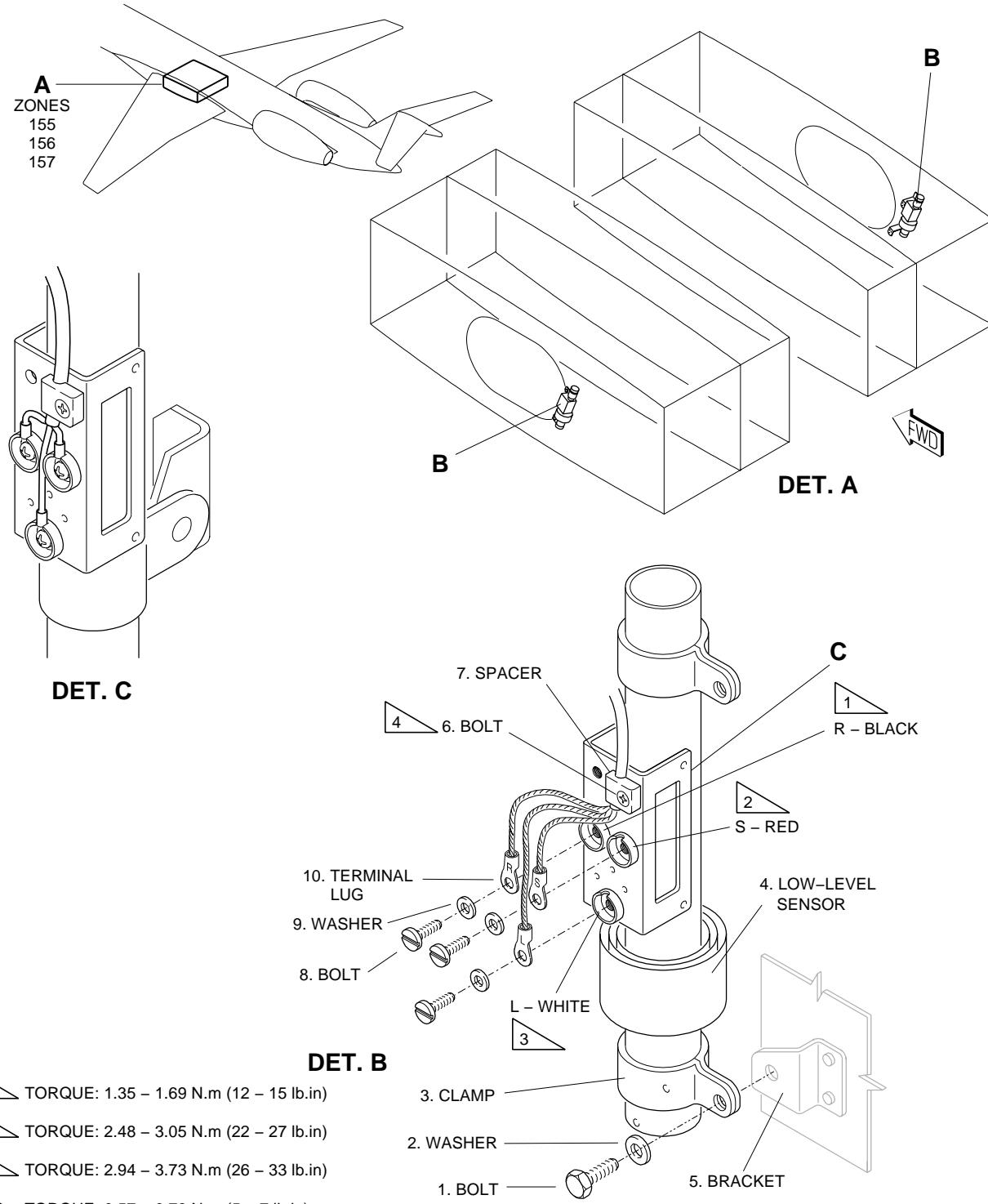
SUBTASK 020-002-A

- (1) Remove the bolts (1) and the washers (2) from the low-level sensor clamp (3).
- (2) Remove the low level sensor (4) from the brackets (5).
- (3) Loosen the bolts (6) and the spacer (7).
- (4) Remove the bolts (8) and the washers (9) to release the terminal lugs (10).

**EFFECTIVITY: ACFT WITH WET WINGSTUB**

Low Level Sensors - Removal/Installation

Figure 401





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TASK 28-44-01-400-801-A

EFFECTIVITY: ACFT WITH WET WINGSTUB

3. LOW LEVEL SENSORS - 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 28-11-01-400-801-A/400	FUEL-TANK ACCESS PANELS - INSTALLATION
AMM TASK 28-41-00-200-801-A/600	-

## C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155BZ	LH wing stub undersurface
156	156BZ	RH wing stub undersurface
192	192AL/192BR	Center lower fairing

## 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	Wing stub undersurface

## I. 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.**



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**CAUTION:** MAKE SURE THAT EACH TERMINAL LUG IS INSTALLED CORRECTLY. THE LETTERS "R", "S", AND "L" ON THE TERMINAL LUGS MUST AGREE WITH THOSE ON THE LOW LEVEL SENSORS.

- (1) Put the terminal lugs (10) on the low level sensor (4) and install the bolts (8) and the washers (9).

**CAUTION: WHEN YOU TIGHTEN THE SPACER:**

- MAKE SURE THAT THE SPACER DOES NOT DAMAGE THE HARNESS OR THE WIRES OF THE TERMINALS.
- MAKE SURE THAT THE IDENTIFICATION TAG OF THE HARNESS IS OUT OF THE SPACER. THIS HELPS YOU TO IDENTIFY THE WIRES OF THE SENSOR.

- (2) Tighten the spacer (7) and the bolts (6).
- (3) Put the low-level sensor clamp (3) on the bracket (5) and install the washers (2) and the bolts (1).

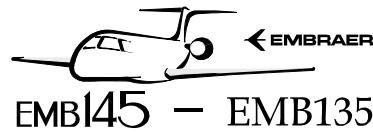
J. Follow-on

SUBTASK 842-002-A

- (1) 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 Maintenance Review Board Report (MRB).

- (2) Install the access panels (AMM MPP 06-41-01/100) and ( [AMM TASK 28-11-01-400-801-A/400](#) ).
  - (a) Wing stub undersurface:
    - 155BZ/156BZ.
- (3) Refuel the tanks ( [AMM TASK 12-11-01-600-801-A/300](#) ) as applicable.
- (4) Examine the work area for leakage. Correct as necessary.
- (5) On the center lower fairing, install access panels 192AL/192BR.



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TASK 28-44-01-000-802-A

EFFECTIVITY: ACFT WITH DRY WINGSTUB

4. LOW LEVEL SENSORS - 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 28-11-01-000-802-A/400	FUEL-TANK ACCESS PANELS - REMOVAL

## C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
531	531AB	LH Underwing area
631	631AB	RH Underwing area

## 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 841-003-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) Defuel the tanks ( [AMM TASK 12-11-01-600-802-A/300](#)).
- (2) Remove the access panels ( [AMM MPP 06-44-00/100](#) ) and ( [AMM TASK 28-11-01-000-802-A/400](#) ) shown below to get access to the low level sensors.



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(a) LH fuel tank:

- 531AB.

(b) RH fuel tank:

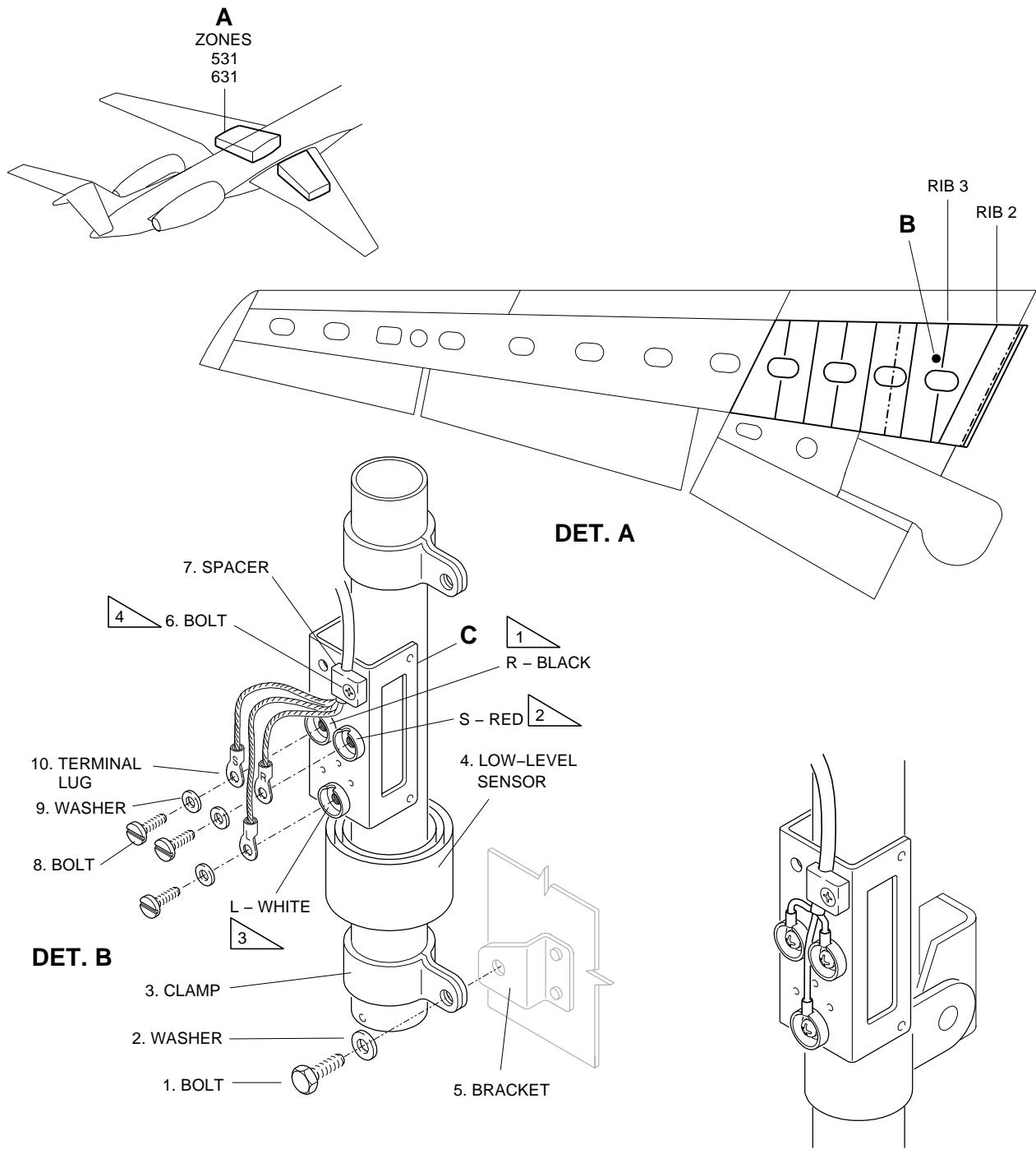
- 631AB.

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

SUBTASK 020-003-A

- (1) Remove the bolts (1) and the washers (2) from the low-level sensor clamp (3).
- (2) Remove the low level sensor (4) from the brackets (5).
- (3) Loosen the bolts (6) and the spacers (7).
- (4) Remove the bolts (8) and the washers (9) to release the terminal lugs (10).

**EFFECTIVITY: ACFT WITH DRY WINGSTUB**  
**Low Level Sensors - Removal/Installation**  
**Figure 402**



1 TORQUE: 1.35 – 1.69 N.m (12 – 15 lb.in)

3 TORQUE: 2.94 – 3.73 N.m (26 – 33 lb.in)

2 TORQUE: 2.48 – 3.05 N.m (22 – 27 lb.in)

4 TORQUE: 0.57 – 0.79 N.m (5 – 7 lb.in)

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TASK 28-44-01-400-802-A

EFFECTIVITY: ACFT WITH DRY WINGSTUB

## 5. LOW LEVEL SENSORS - 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 06-44-00/100	- 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 28-11-01-400-802-A/400	FUEL-TANK ACCESS PANELS - INSTALLATION

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
531	531AB	LH Underwing area
631	631AB	RH Underwing area

### D. Tools and Equipment

Not Applicable

### E. Auxiliary Items

Not Applicable

### F. Consumable Materials

Not Applicable

### G. Expandable Parts

Not Applicable

### H. Persons Recommended

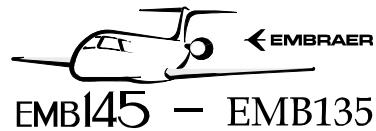
QTY	FUNCTION	PLACE
1	Does the task	LH/RH Underwing area

### I. 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.**

**CAUTION: MAKE SURE THAT EACH TERMINAL LUG IS INSTALLED CORRECTLY. THE LETTERS "R", "S", AND "L" ON THE TERMINAL LUGS MUST AGREE WITH THOSE ON THE LOW LEVEL SENSORS.**



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- (1) Position the terminal lugs (10) on the low level sensor (4) and install the bolts (8) and the washers (9).

**CAUTION: WHEN YOU TIGHTEN THE SPACER:**

- MAKE SURE THAT THE SPACER DOES NOT DAMAGE THE HARNESS OR THE WIRES OF THE TERMINALS.
- MAKE SURE THAT THE IDENTIFICATION TAG OF THE HARNESS IS OUT OF THE SPACER. THIS HELPS YOU TO IDENTIFY THE WIRES OF THE SENSOR.

- (2) Tighten the spacers (7) and the bolts (6).
- (3) Put the low-level sensor clamp (3) on the bracket (5) and install the washers (2) and the bolts (1).

J. Follow-on

**SUBTASK 842-003-A**

- (1) Install the access panels ([AMM MPP 06-44-00/100](#)) and ([AMM TASK 28-11-01-400-802-A/400](#)) as applicable.
  - (a) LH fuel tank:
    - 531AB.
  - (b) RH fuel tank:
    - 631AB.
- (2) Refuel the tanks ([AMM TASK 12-11-01-600-801-A/300](#)) as applicable.
- (3) Examine the work area for leakage. Correct as necessary.

