



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TANK UNIT - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove/install the tank units.
- 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
28-41-02-000-801-A	TANK UNITS - REMOVAL	ACFT WITH WET WINGSTUB
28-41-02-400-801-A	TANK UNITS - INSTALLATION	ACFT WITH WET WINGSTUB
28-41-02-000-802-A	TANK UNITS - REMOVAL	ACFT WITH DRY WINGSTUB
28-41-02-400-802-A	TANK UNITS - INSTALLATION	ACFT WITH DRY WINGSTUB



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TASK 28-41-02-000-801-A

EFFECTIVITY: ACFT WITH WET WINGSTUB

2. TANK UNITS - 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 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	LH wing stub undersurface
192	192AL/192BR	Center lower fairing
531	531AB/531EZ/531CB/531DB	LH Underwing area
631	631AB/631EZ/631CB/631DB	RH Underwing area
541	541BB/541DB	LH Underwing area
641	641BB/641DB	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/Wing stub

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](#)).
- (2) On the circuit breaker panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them:
 - FUEL QTY 1/2.
- (3) Remove the 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 units.
 - (a) Center lower fairing:
 - 192AL/192BR.
 - (b) LH fuel tank:
 - 155BZ/531AB/531EZ/531CB/531DB/541BB/541DB.
 - (c) RH fuel tank:
 - 156BZ/631AB/631EZ/631CB/631DB/641BB/641DB.

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

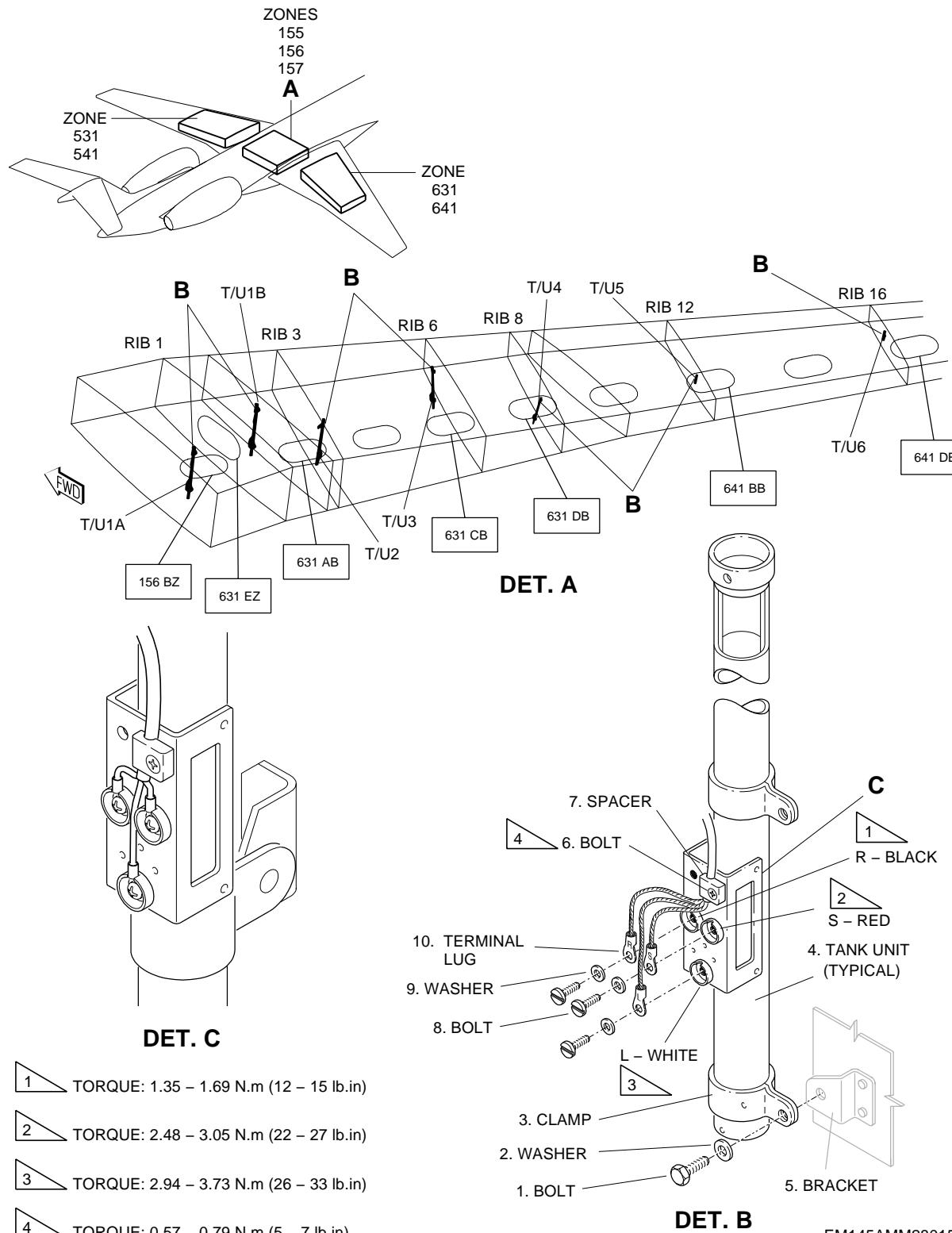
SUBTASK 020-002-A

- (1) Remove the bolts (1) and the washers (2) from the tank unit clamp (3).
- (2) Remove the tank unit (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

Tank Units - Removal/Installation

Figure 401





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TASK 28-41-02-400-801-A

EFFECTIVITY: ACFT WITH WET WINGSTUB

3. TANK UNITS - 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 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 28-11-01-400-801-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	LH wing stub undersurface
192	192AL/192BR	Center lower fairing
531	531AB/531EZ/531CB/531DB	LH Underwing area
631	631AB/631EZ/631CB/631DB	RH Underwing area
541	541BB/541DB	LH Underwing area
641	641BB/641DB	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/Wing stub



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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.

- MAKE SURE THAT THE T/U IS THE CORRECT ONE FOR THIS POSITION. SOME T/U'S ARE SIMILAR TO EACH OTHER AND CAN BE INTERCHANGED BY MISTAKE. IF YOU DO NOT OBEY THIS PRECAUTION, AN INCORRECT FUEL QUANTITY INDICATION WILL OCCUR.

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 TANK UNITS.

- (1) Put the terminal lugs (10) on the tank unit (4) and install the bolts (8) and 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 TANK UNITS.

- (2) Tighten the spacer (7) and the bolts (6).

- (3) Put the tank unit clamp (3) on the bracket (5) and install the washers (2) and 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), ([AMM MPP 06-44-00/100](#)) and ([AMM TASK 28-11-01-400-801-A/400](#)).

(a) LH fuel tank:

- 155BZ/531AB/531EZ/531CB/531DB/541BB/541DB.

(b) RH fuel tank:

- 156BZ/631AB/631EZ/631CB/631DB/641BB/641DB.

(c) Center lower fairing:

- 192AL/192BR.



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- (3) On the circuit breaker panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them:
 - FUEL QTY 1/2.
- (4) Refuel the tanks ([AMM TASK 12-11-01-600-801-A/300](#)) as applicable.

TASK 28-41-02-000-802-A
EFFECTIVITY: ACFT WITH DRY WINGSTUB
4. TANK UNITS - REMOVAL
A. General

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

B. References

<i>REFERENCE</i>	<i>DESIGNATION</i>
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

<i>ZONE</i>	<i>PANEL/DOOR</i>	<i>LOCATION</i>
531	531AB/531EZ/531CB/531DB	LH Underwing area
631	631AB/631EZ/631CB/631DB	RH Underwing area
541	541BB/541DB	LH Underwing area
641	641BB/641DB	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

<i>QTY</i>	<i>FUNCTION</i>	<i>PLACE</i>
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](#)).



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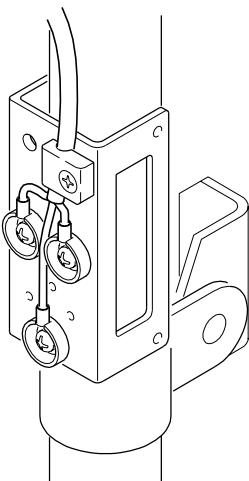
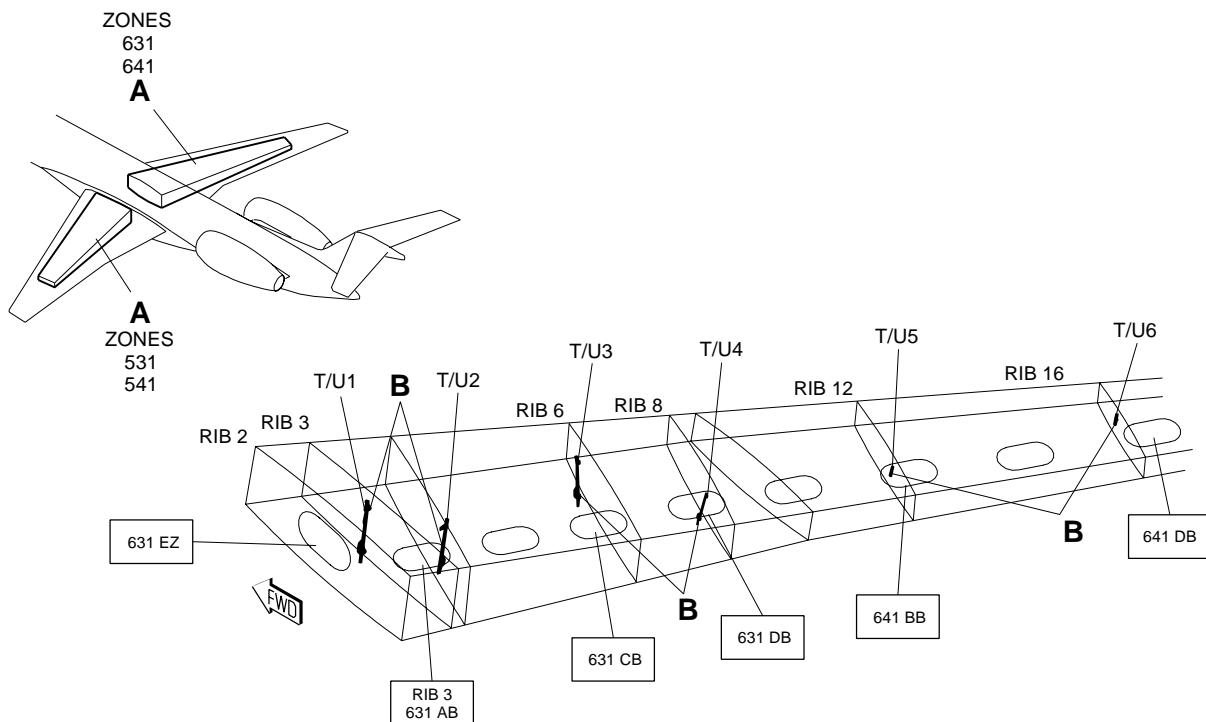
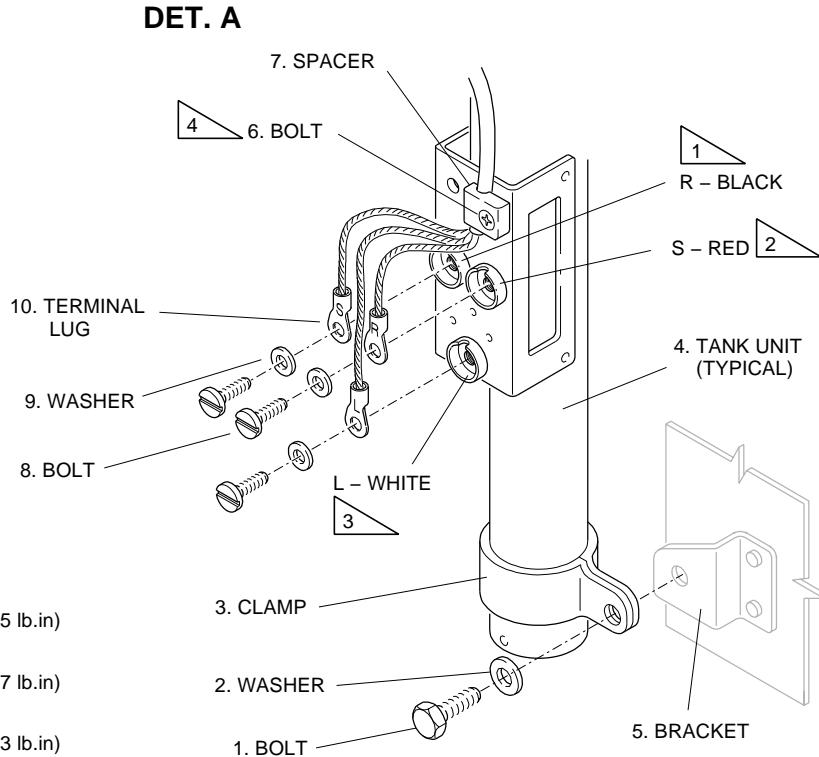
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- (2) On the circuit breaker panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them:
 - FUEL QTY 1/2.
- (3) Remove the access panels ([AMM MPP 06-44-00/100](#)) and ([AMM TASK 28-11-01-000-802-A/400](#)) shown below to get access to the tank units.
 - (a) LH fuel tank:
 - 531AB/531EZ/531CB/531DB/541BB/541DB.
 - (b) RH fuel tank:
 - 631AB/631EZ/631CB/631DB/641BB/641DB.

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

SUBTASK 020-003-A

- (1) Remove the bolts (1) and the washers (2) from the tank unit clamp (3).
- (2) Remove the tank unit (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
Tank Units - Removal/Installation
Figure 402

DET. C


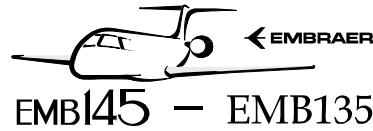
1 TORQUE: 1.35 – 1.69 N.m (12 – 15 lb.in)

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

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

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

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TASK 28-41-02-400-802-A

EFFECTIVITY: ACFT WITH DRY WINGSTUB

5. TANK UNITS - 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/531EZ/531CB/531DB	LH Underwing area
631	631AB/631EZ/631CB/631DB	RH Underwing area
541	541BB/541DB	LH Underwing area
641	641BB/641DB	RH Underwing area

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

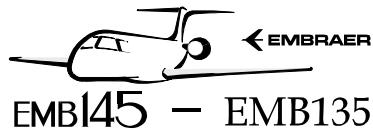
Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

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



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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.

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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 TANK UNITS.

- (1) Position the terminal lugs (10) on the tank unit (4) and install the bolts (8) and 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 TANK UNITS.

- (2) Tighten the spacers (7) and the bolts (6).

- (3) Put the tank unit clamp (3) on the bracket (5) and install the washers (2) and 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](#)).

(a) LH fuel tank:

- 531AB/531EZ/531CB/531DB/541BB/541DB.

(b) RH fuel tank:

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

- (2) On the circuit breaker panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them:
 - FUEL QTY 1/2.

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