



AIRCRAFT MAINTENANCE MANUAL

RADIO ALTIMETER - REMOVAL/INSTALLATION

EFFECTIVITY: ACFT MODEL(S) EMB-145

1. General

- A. This section gives the procedures to remove and install the radio altimeter.
- B. These procedures are applicable to radio altimeters I and II (optional).
- C. The task sequential numbers -801 are applicable to aircraft PRE-MOD [S.B.145-34-0024](#) (Radio Altimeter System 1 and 2 Relocation) and the task sequential numbers -802 are applicable to aircraft POST-MOD S.B. 145-34-0024.
- D. 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
34-31-01-000-801-A	RADIO ALTIMETER - REMOVAL	PRE-MOD SB 145-34-0024
34-31-01-400-801-A	RADIO ALTIMETER - INSTALLATION	PRE-MOD SB 145-34-0024
34-31-01-000-802-A	RADIO ALTIMETER - REMOVAL	POST-MOD. SB 145-34-0024
34-31-01-400-802-A	RADIO ALTIMETER - INSTALLATION	POST-MOD. SB 145-34-0024



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TASK 34-31-01-000-801-A

EFFECTIVITY: PRE-MOD SB 145-34-0024

2. RADIO ALTIMETER - REMOVAL

A. General

- (1) The removal procedure is the same for radio altimeters I and II.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
193	193LL	Wing stub

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	Rear fuselage, on the LH side of the wing stub

I. Preparation

SUBTASK 841-009-A

- (1) On the circuit breaker panel, open the RA1 or RA2 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) Open access door 193LL (AMM MPP 06-41-01/100).

J. Removal (Figure 401)

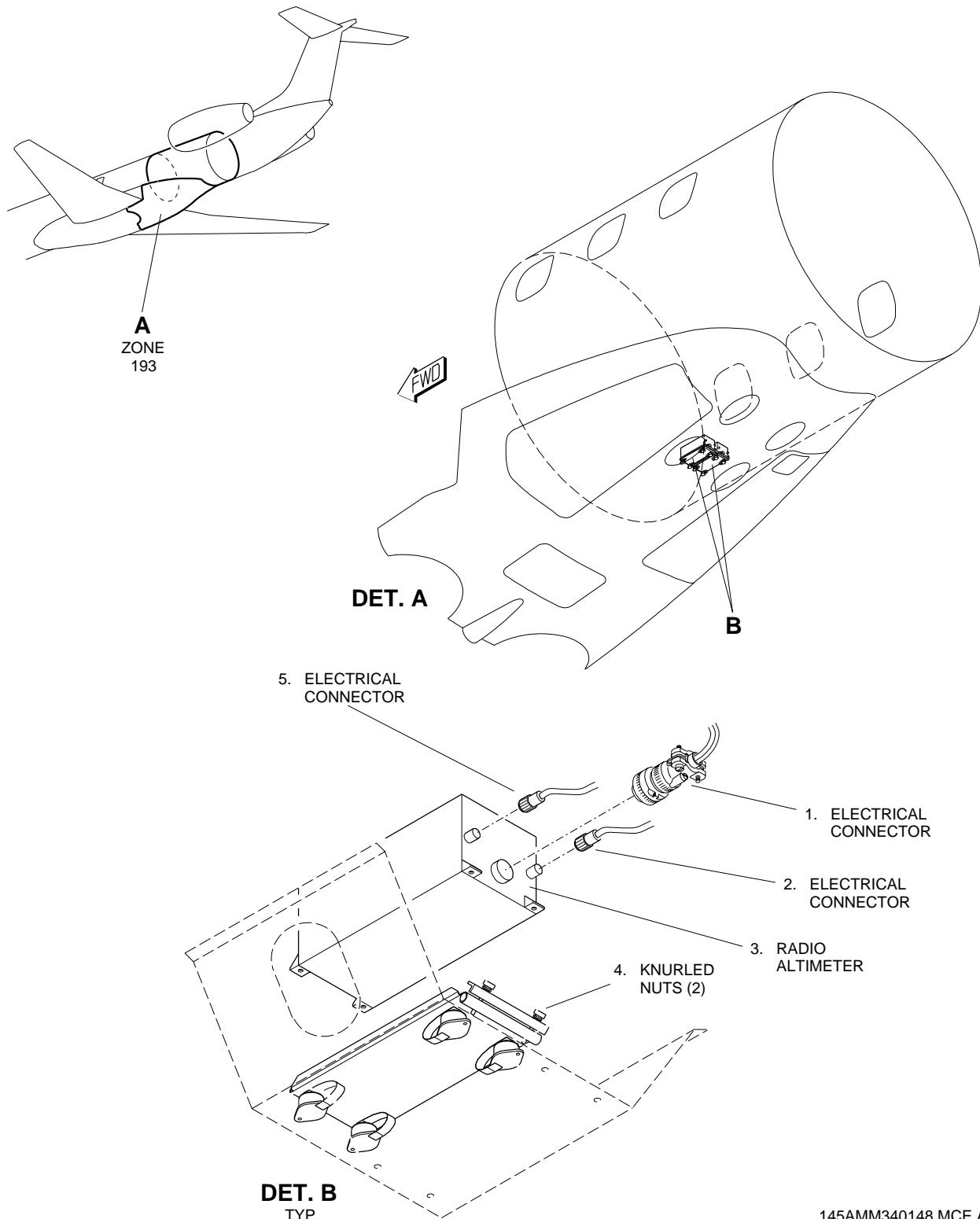
SUBTASK 020-009-A

- (1) Disconnect the electrical connectors (1), (2) and (5), and identify them.
- (2) Remove the lockwire and release the two knurled nuts (4).
- (3) Remove the radio altimeter (3).

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Radio Altimeter - Removal/Installation

Figure 401



145AMM340148.MCE A



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TASK 34-31-01-400-801-A

EFFECTIVITY: PRE-MOD SB 145-34-0024

3. RADIO ALTIMETER - INSTALLATION

A. General

- (1) The installation procedure is the same for radio altimeters I and II.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 34-31-00-700-801-A/500	RADIO ALTIMETER SYSTEM - OPERATIONAL TEST

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
193	193LL	Wing stub

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MS 20995C32	Lockwire	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Rear fuselage, on the LH side of the wing stub

I. Installation (Figure 401)

SUBTASK 420-009-A

- (1) Install the radio altimeter (3).
- (2) Connect the electrical connectors (1), (2), and (5).
- (3) Attach the two knurled nuts (4) and safety them with the lockwire.



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J. Follow-on

SUBTASK 842-009-A

- (1) On the circuit breaker panel, close the RA1 or RA2 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (2) Do the Radio-Altimeter System Operational Test ([AMM TASK 34-31-00-700-801-A/500](#)).
- (3) Close access door 193LL (AMM MPP 06-41-01/100).



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TASK 34-31-01-000-802-A

EFFECTIVITY: POST-MOD. SB 145-34-0024

4. RADIO ALTIMETER - REMOVAL

A. General

- (1) This task gives the procedures to remove radio altimeters I and II.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191EL	Wing-to-fuselage attachment fairing for RA1
272	272DR	Rear electronic compartment for RA2

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-to-fuselage attachment fairing for RA1 or at rear electronic compartment for RA2

I. Preparation

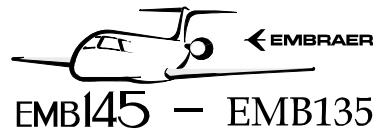
SUBTASK 841-010-D

- (1) On the circuit breaker panel, open the RA1 or RA2 circuit breaker and attach a DO-NOT-CLOSE tag to it.

J. Removal

SUBTASK 020-010-D

- (1) For the removal of radio altimeter I, do the steps below:
- (a) Open access door 191EL (AMM MPP 06-41-01/100).



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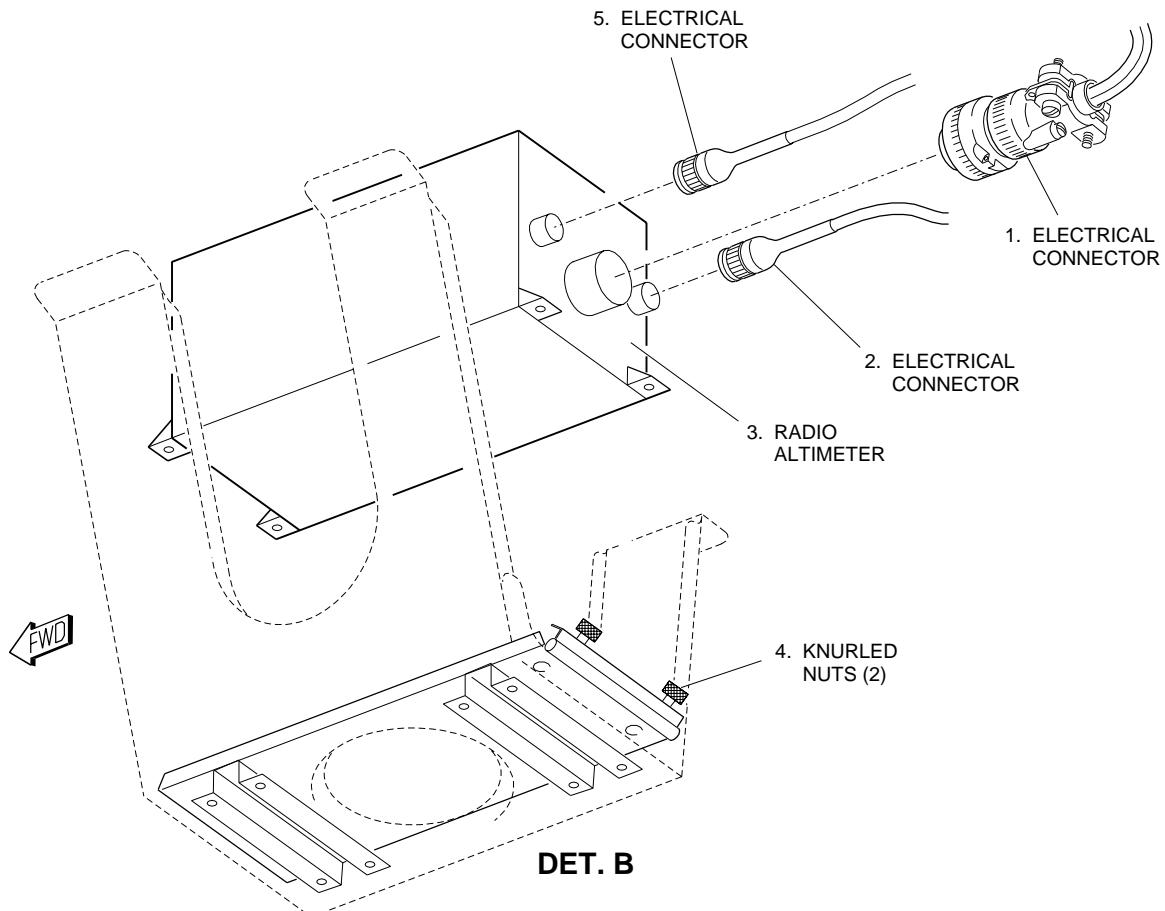
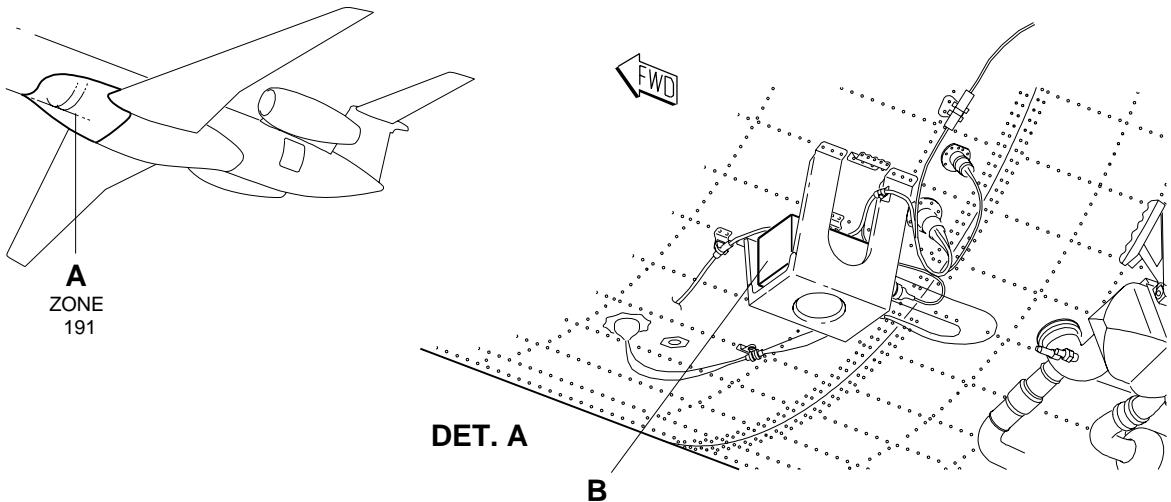
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- (b) Disconnect the electrical connectors (1), (2), and (5), and identify them.
 - (c) Remove the lockwire and release the two knurled nuts (4).
 - (d) Remove the radio altimeter (3).
- (2) For the removal of radio altimeter II, do the steps below:
- (a) Open access door 272DR (AMM MPP 06-41-01/100).
 - (b) Disconnect the electrical connectors (1), (2), and (5), and identify them.
 - (c) Remove the screws (4) and the washers (6).
 - (d) Remove the radio altimeter (3).

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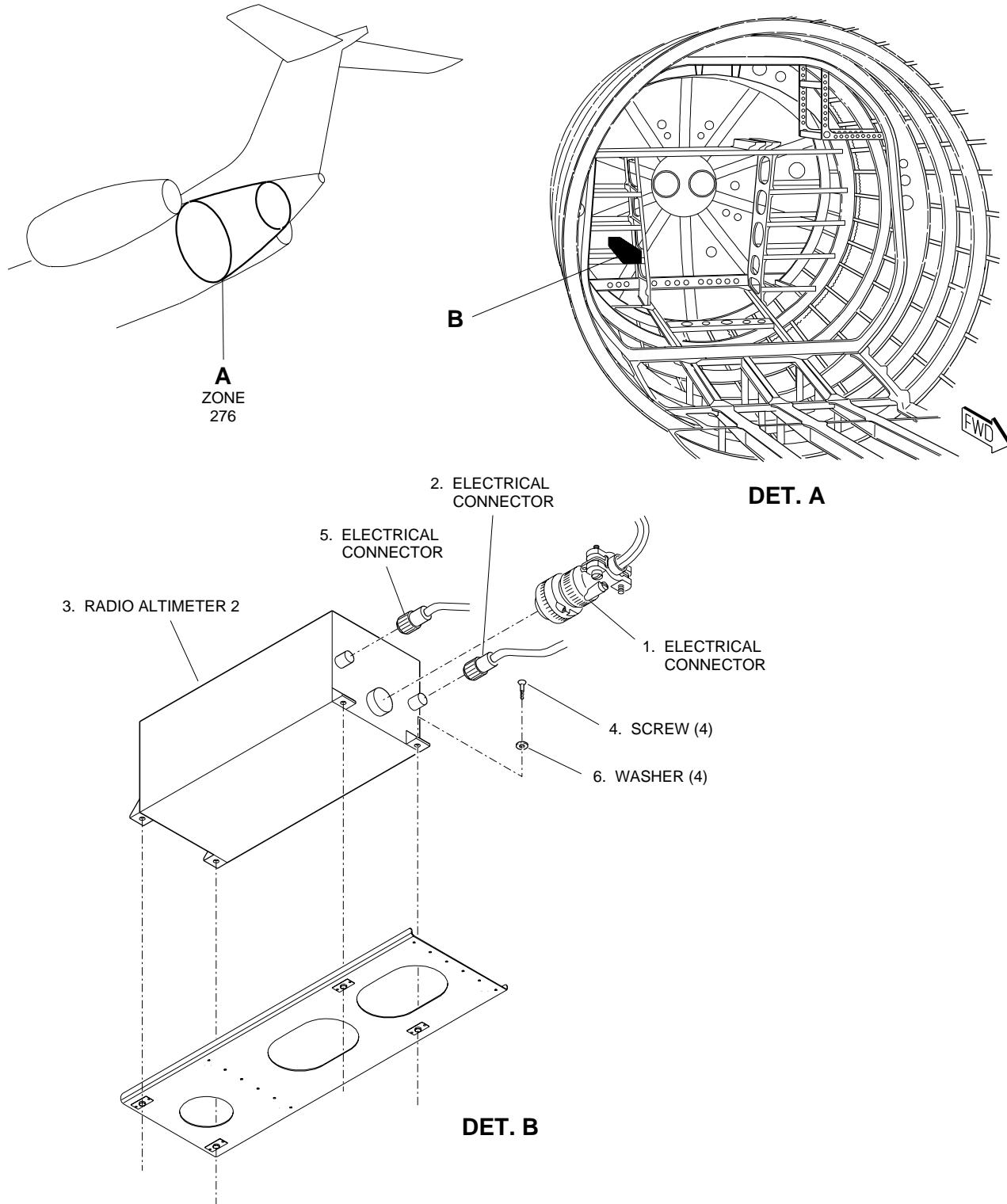
Radio Altimeter I - Removal/Installation

Figure 402



145AMM340318.MCE

EFFECTIVITY: POST-MOD. SB 145-34-0024
Radio Altimeter II - Removal/Installation
Figure 403



145AMM340319.MCE A



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TASK 34-31-01-400-802-A

EFFECTIVITY: POST-MOD. SB 145-34-0024

5. RADIO ALTIMETER - INSTALLATION

A. General

- (1) This task gives the procedures to install radio altimeters I and II.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 34-31-00-700-801-A/500	RADIO ALTIMETER SYSTEM - OPERATIONAL TEST

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191EL	Wing-to-fuselage attachment fairing for RA1
272	272DR	Rear electronic compartment for RA2

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MS 20995C32	Lockwire	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Wing-to-fuselage attachment fairing for RA1 or rear electronic compartment for RA2

I. Installation

SUBTASK 420-010-D

- (1) For installation of radio altimeter I, do the steps below:

- (a) Install the radio altimeter (3).
- (b) Connect the electrical connectors (1), (2), and (5).



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- (c) Attach the two knurled nuts (4) and safety them with the lockwire.
- (d) Close access door 191EL (AMM MPP 06-41-01/100).
- (2) For installation of radio altimeter II, do the steps below:
 - (a) Install the radio altimeter (3).
 - (b) Connect the electrical connectors (1), (2), and (5).
 - (c) Install the washers (6) and the screws (4).
 - (d) Tighten the screws (4).
 - (e) Close access door 272DR (AMM MPP 06-41-01/100).

J. Follow-on

SUBTASK 842-010-D

- (1) On the circuit breaker panel, close the RA1 or RA2 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (2) Do the Radio-Altimeter System Operational Test ([AMM TASK 34-31-00-700-801-A/500](#)).

