



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

**INTEGRATED NAVIGATION UNIT - REMOVAL/INSTALLATION**

*EFFECTIVITY: ALL*

1. General

- A. This section gives the procedures to remove and install the Integrated Navigation Unit.
- B. The Integrated Navigation Unit contains the VOR/ILS, ADF and DME modules.
- C. 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
34-32-01-000-801-A	INTEGRATED NAVIGATION UNIT - RE- MOVAL	ALL
34-32-01-400-801-A	INTEGRATED NAVIGATION UNIT - IN- STALLATION	ALL



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TASK 34-32-01-000-801-A

EFFECTIVITY: ALL

2. INTEGRATED NAVIGATION UNIT - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the Integrated Navigation Unit.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM TASK 32-00-01-910-801-A/200</a>	LG SAFETY PIN - INSTALLATION AND REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
113	113CZ	Forward electronic compartment

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	At the forward electronic compartment

I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the VOR/ILS 1, VOR/ILS 2, ADF 1, ADF 2, DME 1 and DME 2 circuit breakers and attach a DO-NOT-CLOSE tag to them.
- (2) Make sure that the landing gear safety pin is installed to the NLG ([AMM TASK 32-00-01-910-801-A/200](#)).
- (3) Open access door 113CZ (AMM MPP 06-41-01/100).



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

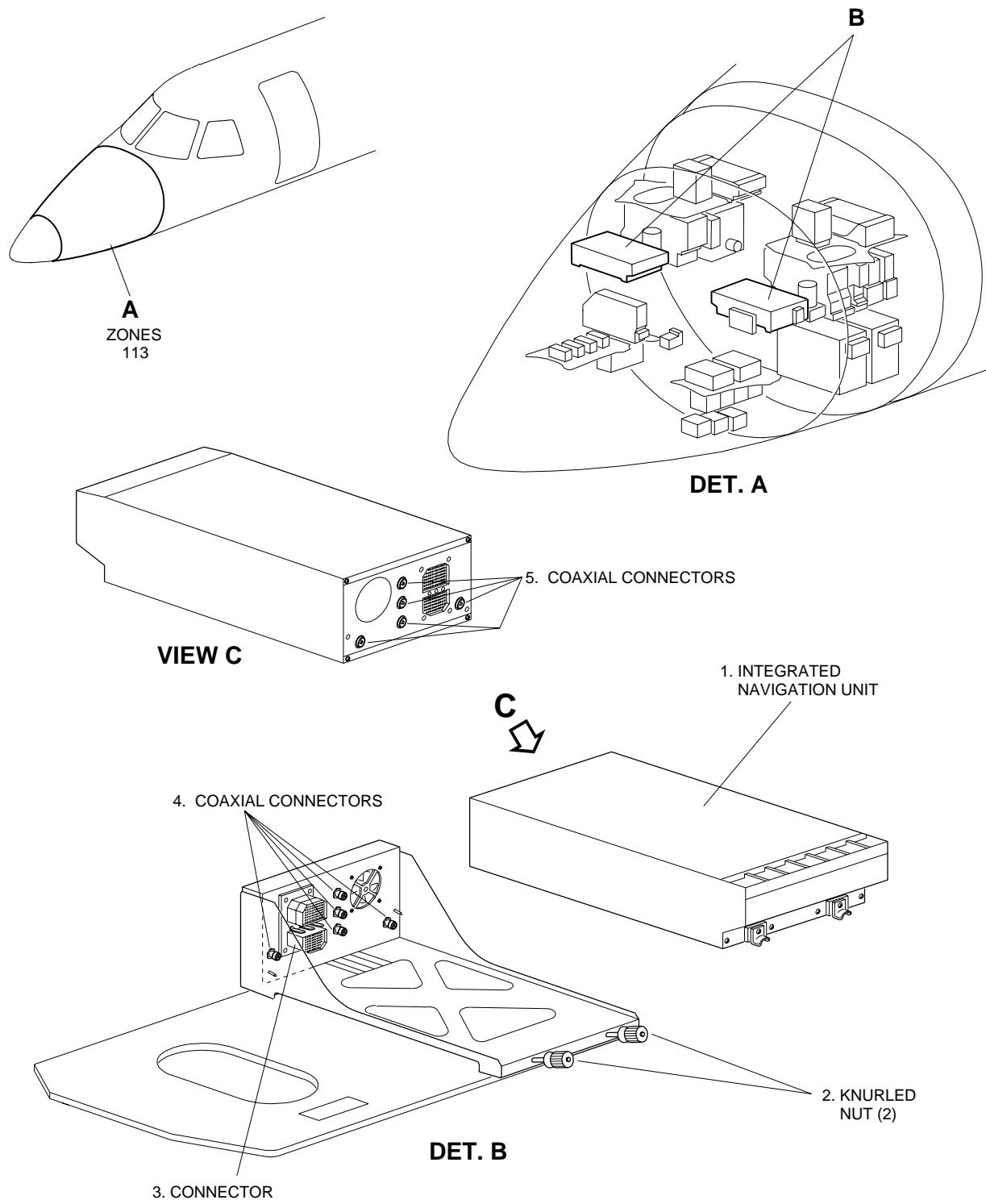
SUBTASK 020-002-A

- (1) Release the knurled nuts (2) which attach the Integrated Navigation Unit (1).
- (2) Pull the Integrated Navigation Unit (1) by its handle, until it is disconnected from the connector (3) attached to the mounting rack.
- (3) Remove the Integrated Navigation Unit (1) from the mounting rack.

**EFFECTIVITY: ALL**

Integrated Navigation Unit - Removal/Installation

Figure 401



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TASK 34-32-01-400-801-A

EFFECTIVITY: ALL

3. INTEGRATED NAVIGATION UNIT - INSTALLATION

## A. General

- (1) This procedure gives the instructions to install the Integrated Navigation Unit.

## B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 34-32-00-700-801-A/500	VOR/ILS SYSTEM OPERATIONAL TEST
AMM TASK 34-51-00-700-801-A/500	DME SYSTEM OPERATIONAL TEST
AMM TASK 34-53-00-700-801-A/500	ADF SYSTEM OPERATIONAL TEST
WM 20-50-00	-

## C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
113	113CZ	Forward electronic compartment

## D. Tools and Equipment

Not Applicable

## E. Auxiliary Items

Not Applicable

## F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-S-8660	Dow Corning No. 4 Lubricant Compound	AR

## G. Expandable Parts

Not Applicable

## H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	At the forward electronic compartment

## I. Installation (Figure 401)

## SUBTASK 420-002-A

- (1) Examine and clean or replace the coaxial connectors (4) as required (WM 20-50-00).
- (2) Fill the internal part of the coaxial connectors (4) and (5) with Dow Corning No. 4 Lubricant Compound (WM 20-50-00).



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- (3) Install the Integrated Navigation Unit (1) on the mounting rack.
- (4) Push the Integrated Navigation Unit (1) by its handle, until it is connected to the connector (3) attached to the mounting rack.
- (5) Tighten the knurled nuts (2) which attach the Integrated Navigation Unit (1) to the mounting rack.

J. Follow-on

SUBTASK 842-002-A

- (1) On the circuit breaker panel, close the VOR/ILS 1, VOR/ILS 2, ADF 1, ADF 2, DME 1 and DME 2 circuit breakers and remove the DO-NOT-CLOSE tag from them.
- (2) Do the VOR/ILS System Operational Test ([AMM TASK 34-32-00-700-801-A/500](#)), DME System Operational Test ([AMM TASK 34-51-00-700-801-A/500](#)) and ADF System Operational Test ([AMM TASK 34-53-00-700-801-A/500](#)).
- (3) Close access door 113CZ (AMM MPP 06-41-01/100).