



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

DUAL IRS - INERTIAL REFERENCE UNIT - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to remove/install the IRU - Inertial Reference Unit.
- B. IRU1 is installed on the left side of the electronic compartment.
- C. IRU2 is installed on the right side of the electronic compartment.
- D. The access to IRU1 and IRU2 is got through access panel 113CZ in the forward electronic compartment.
- E. 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
34-27-01-000-801-A	IRU - REMOVAL	ALL
34-27-01-400-801-A	IRU - INSTALLATION	ALL



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TASK 34-27-01-000-801-A

EFFECTIVITY: ALL

2. IRU - REMOVAL

A. General

- (1) This task gives the procedure to remove the IRU.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 29-10-00-860-802-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP
AMM TASK 32-00-02-910-801-A/200	SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL
SB145-32-0036	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
213	113CZ	LH Electronic Compartment
214	113CZ	RH 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	Forward Electronic Compartment

I. Preparation

SUBTASK 841-002-A

- (1) On aircraft PRE-MOD SB145-32-0036, make sure that the pressure in hydraulic system 1 is fully released ( AMM TASK 29-10-00-860-802-A/200).
- (2) On aircraft POST-MOD SB145-32-0036, install the safety pin of the NLG door solenoid valve (AMM TASK 32-00-02-910-801-A/200).
- (3) Open access door 113CZ (AMM MPP 06-41-01/100).



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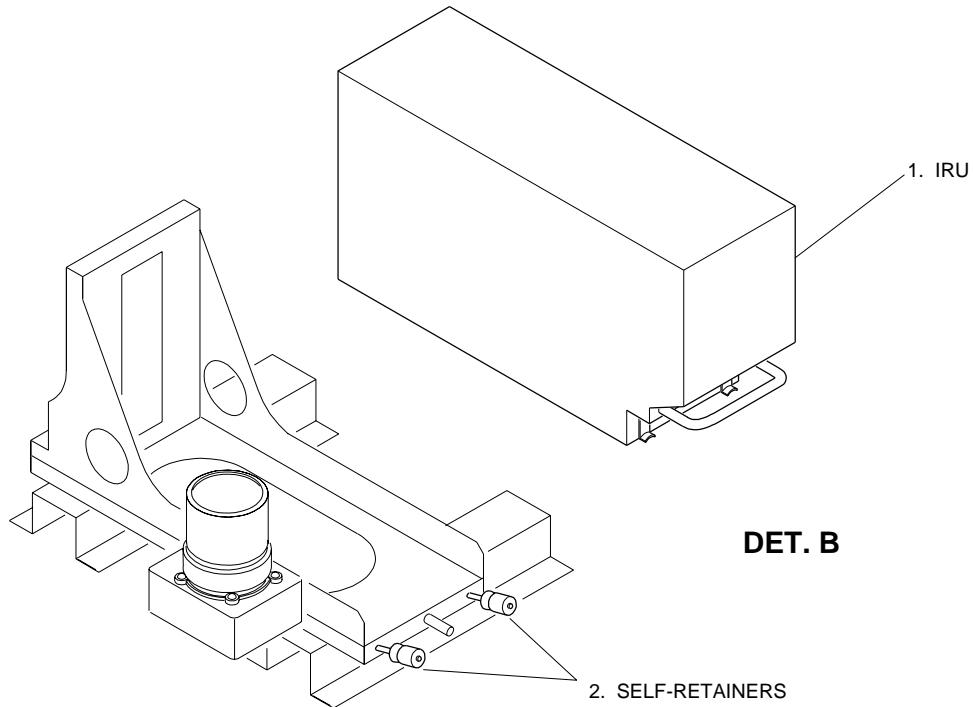
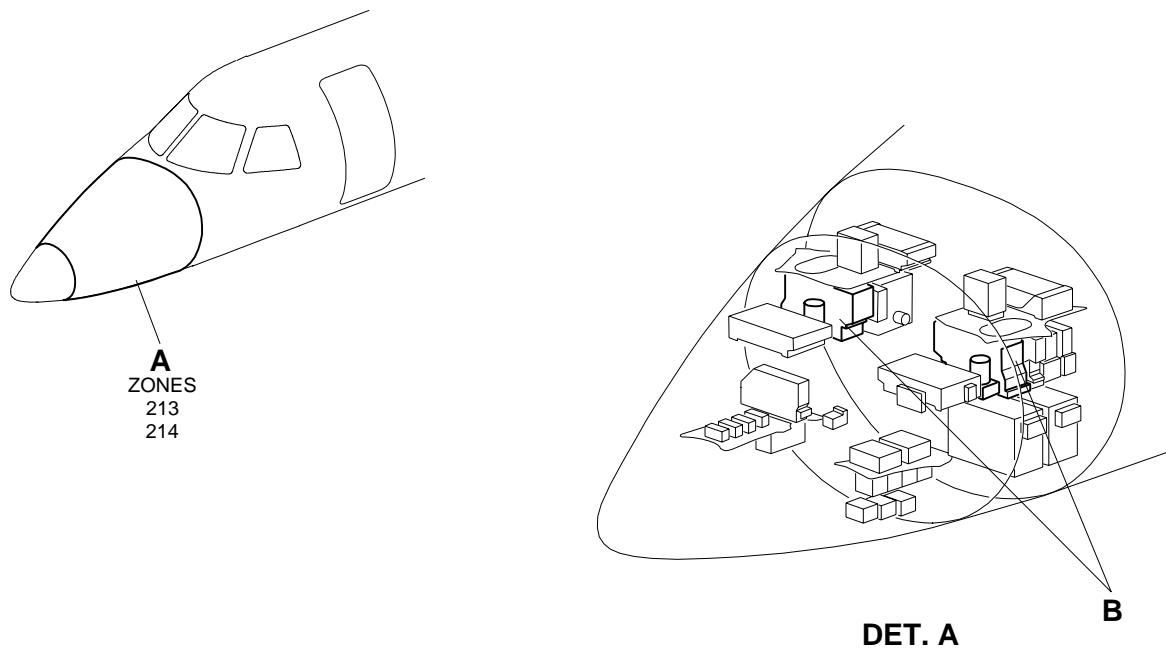
- (4) On the Circuit Breaker Panel, open the IRS 1 and/or IRS 2 circuit breaker(s) and attach a DO-NOT-CLOSE tag to it (them).
- (5) On the ELECTRICAL panel, on the overhead panel, push the BACKUP pushbutton (striped bar comes on).

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

SUBTASK 020-002-A

- (1) Loosen the two self-locking retainers (2) until they disconnect from the support hooks.
- (2) Remove the IRU (1).

**EFFECTIVITY: ALL**  
**IRU - Removal/Installation**  
**Figure 401**



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**TASK 34-27-01-400-801-A**
*EFFECTIVITY: ALL*
**3. IRU - INSTALLATION**
**A. General**

- (1) This task gives the procedure to install the IRU.

**B. References**

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM MPP 06-41-01/100	-
<a href="#">AMM TASK 32-00-02-910-801-A/200</a>	SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL
<a href="#">AMM TASK 34-27-00-700-801-A/500</a>	DUAL IRS - OPERATIONAL TEST
<a href="#">AMM TASK 34-27-00-700-802-A/500</a>	DUAL IRS - MOUNTING TRAY LEVELING/ALIGNMENT
<a href="#">SB145-32-0036</a>	-

**C. Zones and Accesses**

<i>ZONE</i>	<i>PANEL/DOOR</i>	<i>LOCATION</i>
213	113CZ	LH Electronic Compartment
214	113CZ	RH 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**

<i>QTY</i>	<i>FUNCTION</i>	<i>PLACE</i>
1	Does the task	Forward Electronic Compartment

**I. Installation (Figure 401)**
**SUBTASK 420-002-A**

**CAUTION:** WHEN YOU PUT THE UNIT ON THE MOUNTING TRAY, DO NOT FORCE FIT. IF MATING IS DIFFICULT, REMOVE THE UNIT AND MAKE SURE THAT THE CONNECTOR PINS ARE NOT BENT OR OUT OF ALIGNMENT. ALSO, VISUALLY EXAMINE THE ALIGNMENT OF THE RECEPTACLE ON THE MOUNTING TRAY.



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- (1) Put the IRU (1) on the mounting tray. Move it onto the three guide pins. Move the unit rearward until its connectors are fully engaged with the mating connectors of the mounting tray.

- (2) Tighten the self-retainers (2) over the support hooks to attach the unit in position.

**NOTE:** If the mounting tray is moved out of position, a complete tray alignment must be done ([AMM TASK 34-27-00-700-802-A/500](#)).

J. Follow-on

SUBTASK 842-002-A

- (1) Close access door 113CZ (AMM MPP 06-41-01/100).
- (2) On aircraft POST-MOD [SB145-32-0036](#), remove the safety pin of the NLG door solenoid valve ([AMM TASK 32-00-02-910-801-A/200](#)).
- (3) On the circuit breaker panel , close the IRS1 and/or IRS2 circuit breaker(s) and remove the DO-NOT-CLOSE tag from it (them).
- (4) On the ELECTRICAL panel, on the overhead panel, push the BACKUP pushbutton (striped bar comes off).
- (5) Do the IRS Operational Check ([AMM TASK 34-27-00-700-801-A/500](#)).