



AIRCRAFT MAINTENANCE MANUAL

SINGLE INERTIAL REFERENCE UNIT - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to remove/install the Inertial Reference Unit (IRU).
- B. The IRU is installed on the left side of the electronic compartment.
- C. The access to the IRU is got through access panel 113CZ in the forward electronic compartment.
- 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
34-26-01-000-801-A	INERTIAL REFERENCE UNIT (IRU) - RE- MOVAL	ALL
34-26-01-400-801-A	INERTIAL REFERENCE UNIT (IRU) - IN- STALLATION	ALL



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 34-26-01-000-801-A

EFFECTIVITY: ALL

2. INERTIAL REFERENCE UNIT (IRU) - REMOVAL

A. General

- (1) This task gives the procedure to remove the Inertial Reference Unit (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	Forward electronic compartment - LH upper side

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) Open access door 113CZ (AMM MPP 06-41-01/100).
- (2) 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).
- (3) 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).



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

- (4) On the circuit breaker panel, open the IRS circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (5) On the electrical panel, on the overhead panel, push the BACKUP pushbutton (the striped bar comes on).

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

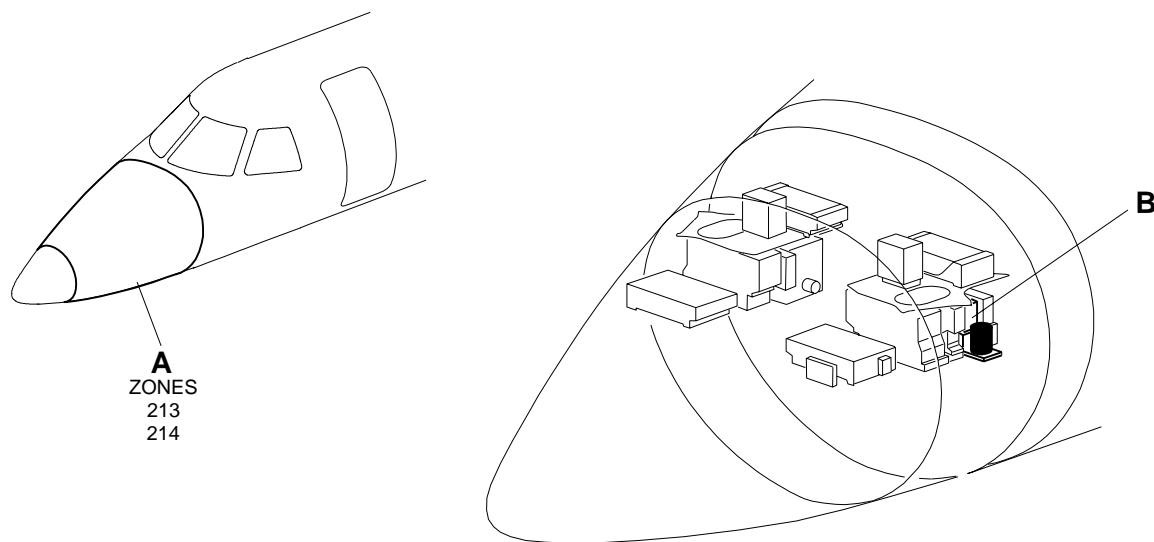
SUBTASK 020-002-A

- (1) Loosen the two knurled clamp knobs (2) until they are disconnected from the support hooks.
- (2) Remove the IRU (1).

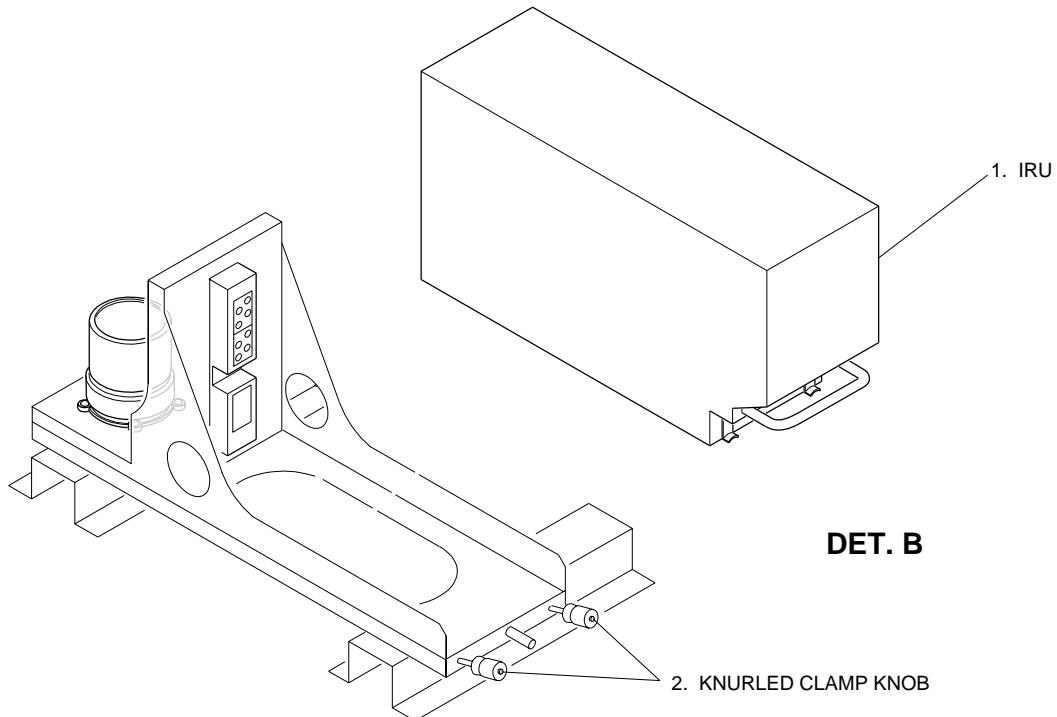
EFFECTIVITY: ALL

Inertial Reference Unit (IRU) - Removal/Installation

Figure 401



DET. A



DET. B

TASK 34-26-01-400-801-A
EFFECTIVITY: ALL
3. INERTIAL REFERENCE UNIT (IRU) - INSTALLATION
A. General

(1) This task gives the procedure to install the Inertial Reference Unit (IRU).

B. References

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM MPP 06-41-01/100	-
AMM TASK 32-00-02-910-801-A/200	SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL
AMM TASK 34-26-00-700-801-A/500	SINGLE IRS - OPERATIONAL TEST
AMM TASK 34-26-00-700-802-A/500	SINGLE IRS - MOUNTING TRAY LEVELING/ALIGNMENT
SB145-32-0036	-

C. Zones and Accesses

<i>ZONE</i>	<i>PANEL/DOOR</i>	<i>LOCATION</i>
213	113CZ	Forward electronic compartment - LH upper side

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.



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

- (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 knurled clamp knobs (2) over the support hooks to attach the unit in position.

NOTE: If the mounting tray is moved out of position, a complete mounting tray alignment must be done ([AMM TASK 34-26-00-700-802-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 IRS circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (4) On the electrical panel, on the overhead panel, push the BACKUP pushbutton (striped bar comes off).
- (5) Do the Single IRS operational test ([AMM TASK 34-26-00-700-801-A/500](#)).