



## AIRCRAFT MAINTENANCE MANUAL

### STANDBY ATTITUDE INDICATOR - REMOVAL/INSTALLATION

EFFECTIVITY: ACFT MODEL(S) EMB-145

#### 1. General

- A. This section gives the procedure to remove/install the Standby Attitude Indicator.
- 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
34-24-01-000-801-A	STANDBY ATTITUDE INDICATOR - REMOVAL	ACFT MODEL(S) EMB-145
34-24-01-400-801-A	STANDBY ATTITUDE INDICATOR - INSTALLATION	ACFT MODEL(S) EMB-145



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TASK 34-24-01-000-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

2. STANDBY ATTITUDE INDICATOR - REMOVAL

A. General

- (1) This task gives the procedure to remove the Standby Attitude Indicator.

B. Zones and Accesses

Not Applicable

C. Tools and Equipment

Not Applicable

D. Auxiliary Items

Not Applicable

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Cockpit

H. Preparation

*SUBTASK 841-005-B*

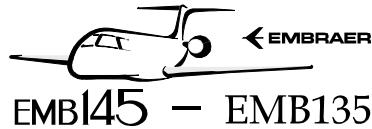
- (1) In the circuit breaker panel, on the overhead panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them:

- (Aircraft without Integrated Standby Instrument System) STBY ATT (Location Tip: ESSENTIAL DC BUS 2/NAV/STBY ATT).
- (Aircraft with Integrated Standby Instrument System) INTEG STBY (Location Tip: ESSENTIAL DC BUS 2/INTEG STBY).
- LIGHTS PILOT PANEL (Location Tip: ESSENTIAL DC BUS 1/LIGHTS/PILOT PANEL).

NOTE: The attitude indicator starts to get lost and then stabilizes in a random position.

- (2) After power is removed, wait until the attitude indicator stabilizes or wait for 15 minutes after power down.

CAUTION: IF MAINTENANCE ACTIONS REQUIRE REMOVAL OF THE INDICATOR FROM THE INSTRUMENT PANEL, THE INDICATOR RUNS DOWN UNTIL THE ATTITUDE INDICATOR STABILIZES OR FOR 15 MINUTES AFTER POWER IS REMOVED. IF YOU REMOVE THE INDICATOR BEFORE THAT, DAMAGE TO THE EQUIPMENT CAN OCCUR.



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- (3) To cage the indicator, pull the "PULL TO CAGE" knob, rotate it clockwise, and release it.

I. Removal ([Figure 401](#)) ([Figure 402](#)) ([Figure 403](#))

SUBTASK 020-005-B

- (1) (AIRCRAFT WITH STANDBY ATTITUDE INDICATOR INSTALLED ON THE MAIN INSTRUMENT PANEL) Do the Standby Attitude Indicator removal as follows ([Figure 401](#)):

- (a) Remove the screws (1).

**CAUTION:** DO NOT REMOVE/INSTALL THE STANDBY ATTITUDE INDICATOR BY PULLING/PUSHING THE BUTTON.

- (b) Pull the Standby Attitude Indicator (2) to gain access to connector (3).

- (c) Disconnect the connector (3) from the Standby Attitude Indicator (2).

**CAUTION:** DO NOT REMOVE/INSTALL THE STANDBY ATTITUDE INDICATOR BY PULLING/PUSHING THE BUTTON.

- (d) Remove the Standby Attitude Indicator (2).

- (2) (AIRCRAFT WITH STANDBY ATTITUDE INDICATOR INSTALLED ON THE TOP OF THE GLARESHIELD PANEL) Do the Standby Attitude Indicator removal as follows ([Figure 402](#)):

- (a) Remove the Standby Attitude Indicator cover (1).

- (b) Disconnect the connector (4) from the Standby Attitude Indicator (3).

- (c) Remove the screws (2).

**CAUTION:** DO NOT REMOVE/INSTALL THE STANDBY ATTITUDE INDICATOR BY PULLING/PUSHING THE BUTTON.

- (d) Remove the Standby Attitude Indicator (3).

- (3) (ACFT WITH STANDBY AIRSPEED, STANDBY ATTITUDE, AND STANDBY ALTIMETER INDICATORS INSTALLED ON THE TOP OF THE GLARESHIELD PANEL) Do the Standby Attitude Indicator removal as follows ([Figure 403](#)):

**CAUTION:** BE CAREFUL WHEN YOU REMOVE THE COVER AND SEE THAT YOU DO NOT CAUSE DAMAGE TO THE COCKPIT AREA MICROPHONE.

- (a) Remove the Standby Attitude Indicator cover (1) to gain access to the electrical connector (4).

- (b) Disconnect the electrical connector (4) from the Standby Attitude Indicator (3).

- (c) Remove the screws (2) (3 positions).

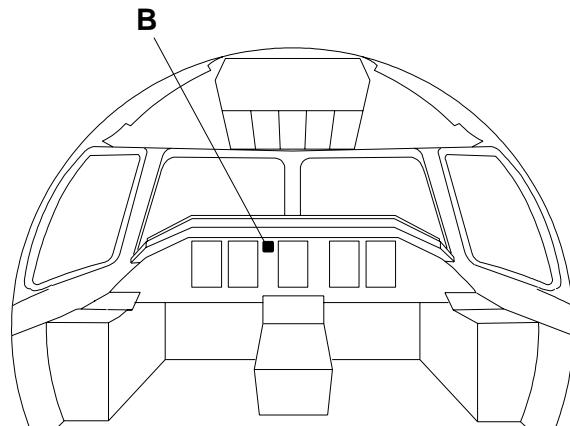
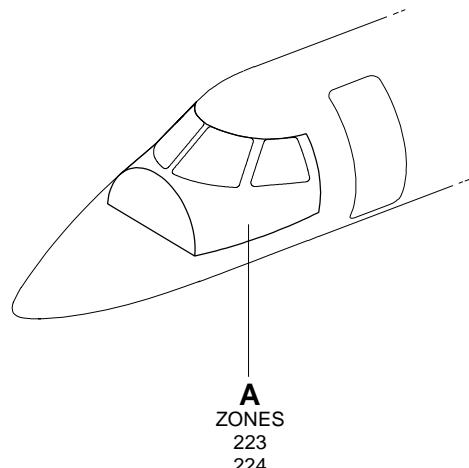
**CAUTION:** DO NOT REMOVE/INSTALL THE STANDBY ATTITUDE INDICATOR BY PULLING/PUSHING THE BUTTON.

- (d) Remove the Standby Attitude Indicator (3).

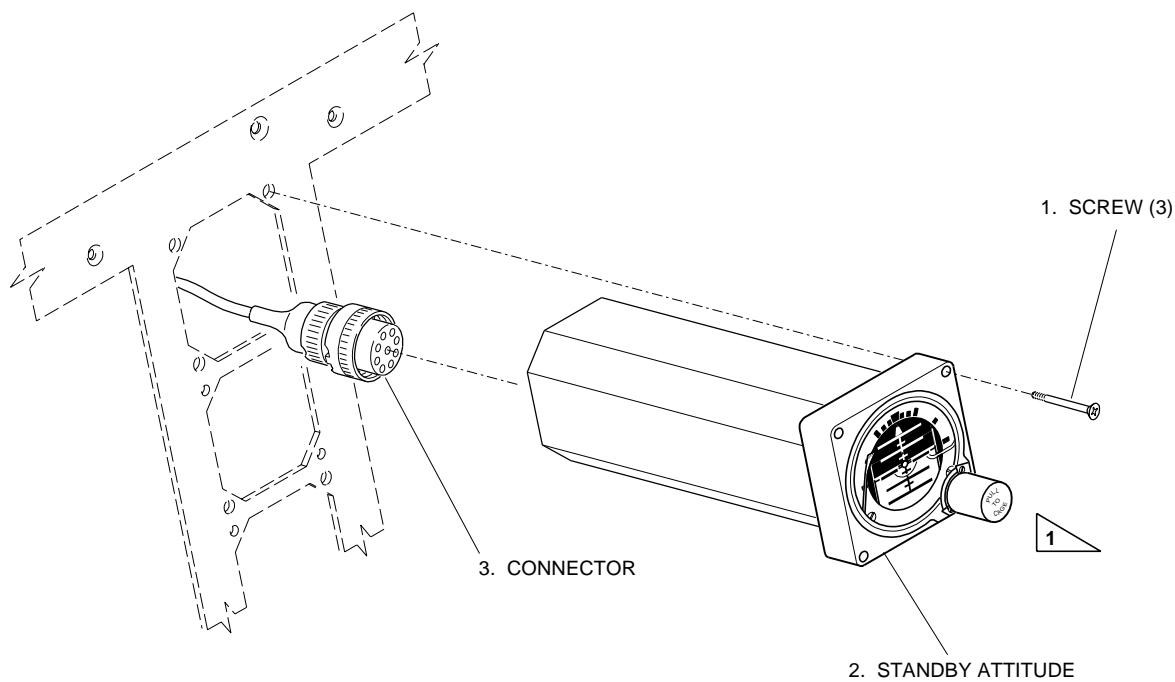
**EFFECTIVITY: AIRCRAFT WITH STANDBY ATTITUDE INDICATOR INSTALLED ON MAIN INSTRUMENT PANEL**

Standby Attitude Indicator - Removal/Installation

Figure 401



**DET. A**



**DET. B**



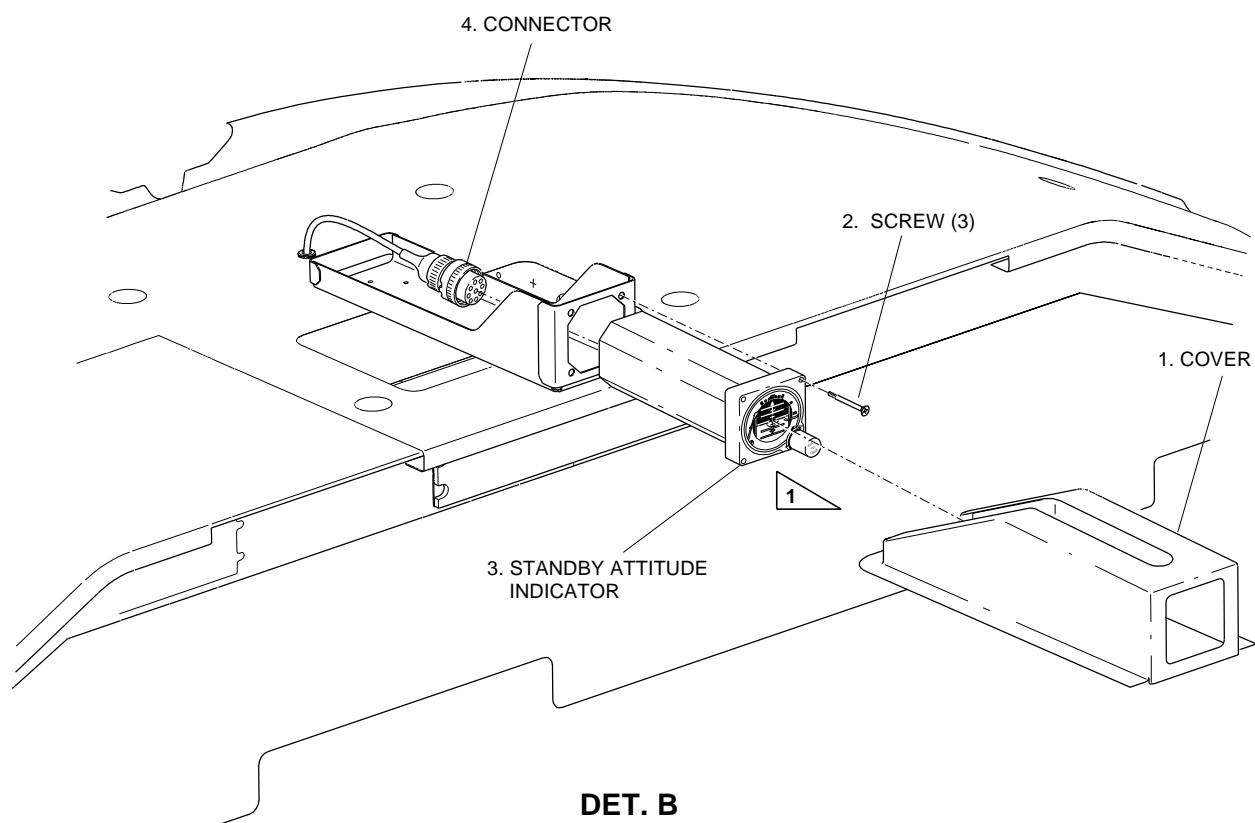
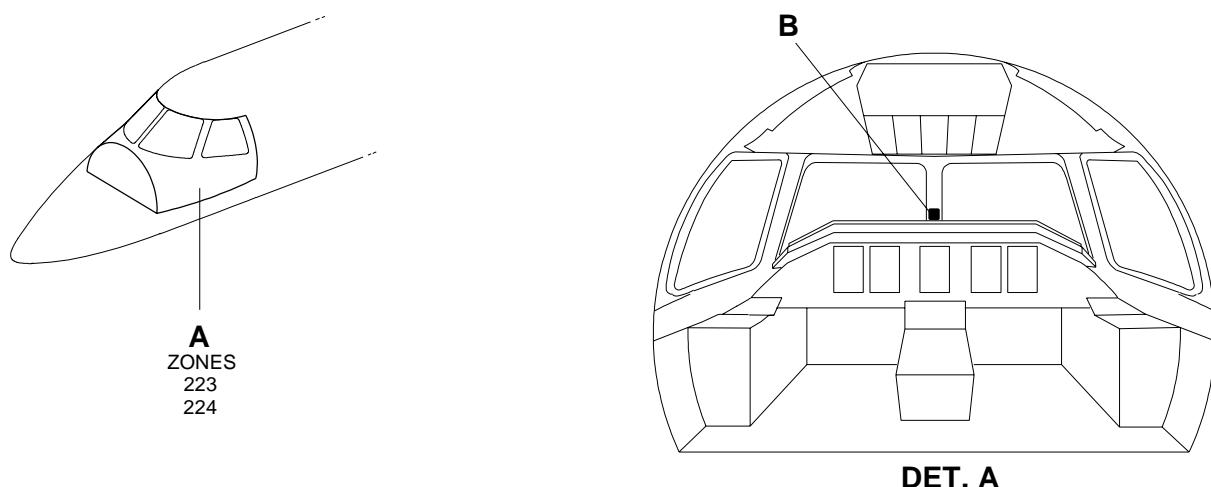
DO NOT REMOVE / INSTALL THE STANDBY ATTITUDE INDICATOR BY PULLING / PUSHING THE BUTTON.

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**EFFECTIVITY: AIRCRAFT WITH STANDBY ATTITUDE INDICATOR INSTALLED ON THE TOP OF THE GLARESHIELD PANEL**

Standby Attitude Indicator - Removal/Installation

Figure 402



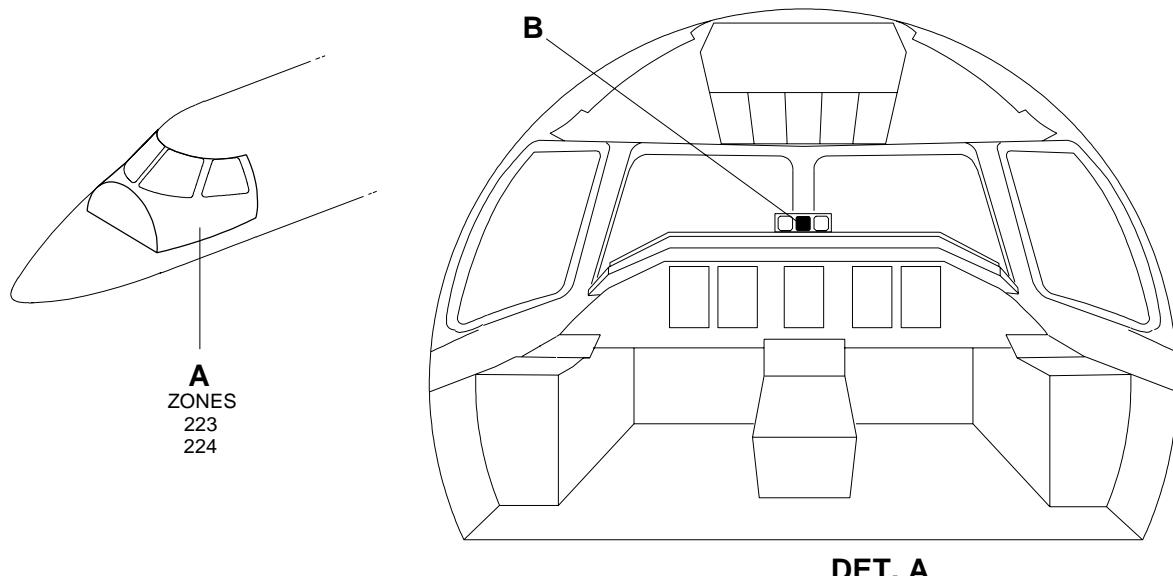
DO NOT REMOVE / INSTALL THE STANDBY  
ATTITUDE INDICATOR BY PULLING / PUSHING  
THE BUTTON.

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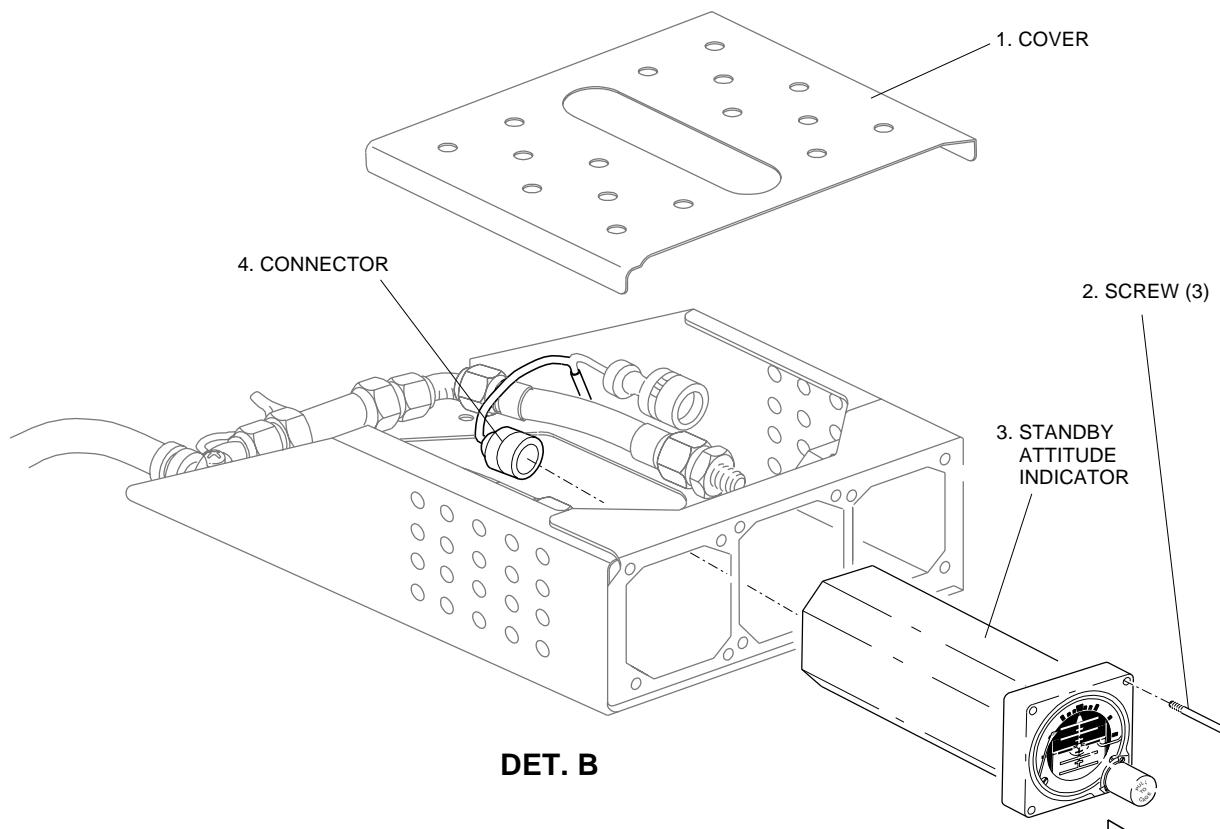
**EFFECTIVITY: ACFT W/ STANDBY AIRSPEED, STANDBY ATTITUDE, AND STANDBY ALTIMETER  
INDICATORS INSTALLED ON THE TOP OF THE GLARESHIELD PANEL**

Standby Attitude Indicator - Removal/Installation

Figure 403



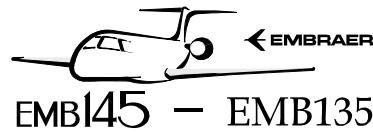
**DET. A**



DO NOT REMOVE / INSTALL THE STANDBY  
ATTITUDE INDICATOR BY PULLING / PUSHING  
THE BUTTON.



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TASK 34-24-01-400-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

3. STANDBY ATTITUDE INDICATOR - INSTALLATION

A. General

- (1) This task gives the procedure to install the Standby Attitude Indicator.

B. References

REFERENCE	DESIGNATION
AMM TASK 34-24-00-700-801-A/500	-

C. Zones and Accesses

Not Applicable

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	Cockpit

I. Installation (Figure 401) (Figure 402) (Figure 403)

SUBTASK 420-005-B

- (1) (AIRCRAFT WITH STANDBY ATTITUDE INDICATOR INSTALLED ON MAIN INSTRUMENT PANEL) Do the Standby Attitude Indicator installation as follows (Figure 401):

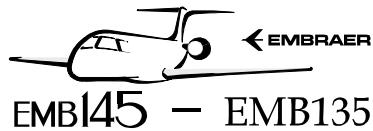
- (a) Connect the connector (3) in the Standby Attitude Indicator (2).

CAUTION: DO NOT REMOVE/INSTALL THE STANDBY ATTITUDE INDICATOR BY PULLING/PUSHING THE BUTTON.

- (b) Put the Standby Attitude Indicator (2) in position.

- (c) Tighten the screws (1).

- (2) (AIRCRAFT WITH STANDBY ATTITUDE INDICATOR INSTALLED ON THE TOP OF THE GLARESHIELD PANEL) Do the Standby Attitude Indicator installation as follows (Figure 402):



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**CAUTION: DO NOT REMOVE/INSTALL THE STANDBY ATTITUDE INDICATOR BY PULLING/PUSHING THE BUTTON.**

- (a) Put the Standby Attitude Indicator (3) in position.
  - (b) Connect the connector (4) in the Standby Attitude Indicator (3).
  - (c) Tighten the screws (2).
  - (d) Install the Standby Attitude Indicator cover (1).
- (3) (ACFT WITH STANDBY AIRSPEED, STANDBY ATTITUDE, AND STANDBY ALTIMETER INDICATORS INSTALLED ON THE TOP OF THE GLARESHIELD PANEL) Do the Standby Attitude Indicator installation as follows (Figure 403):

**CAUTION: DO NOT REMOVE/INSTALL THE STANDBY ATTITUDE INDICATOR BY PULLING/PUSHING THE BUTTON.**

- (a) Put the Standby Attitude Indicator (3) in position.
- (b) Connect the connector (4) in the Standby Attitude Indicator (3).
- (c) Tighten the screws (2).

**CAUTION: BE CAREFUL WHEN YOU INSTALL THE COVER AND SEE THAT YOU DO NOT CAUSE DAMAGE TO THE COCKPIT AREA MICROPHONE.**

- (d) Install the Standby Attitude Indicator cover (1).

J. Follow-on

**SUBTASK 842-005-B**

- (1) In the circuit breaker panel, on the overhead panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them:
  - (Aircraft without Integrated Standby Instrument System) STBY ATT (Location Tip: ESSENTIAL DC BUS 2/NAV/STBY ATT).
  - (Aircraft with Integrated Standby Instrument System) INTEG STBY (Location Tip: ESSENTIAL DC BUS 2/INTEG STBY).
  - LIGHTS PILOT PANEL (Location Tip: ESSENTIAL DC BUS 1/LIGHTS/PILOT PANEL).
- (2) Do the Operational Check of the Standby Attitude Indicator (AMM TASK 34-24-00-700-801-A/500).