



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

CONTROL PANELS - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove/install the control panels, illuminated placard assemblies and lighting assemblies.
- 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
20-13-10-000-801-A	CONTROL PANELS - REMOVAL (TYPICAL)	ALL
20-13-10-400-801-A	CONTROL PANELS - INSTALLATION (TYPICAL)	ALL
20-13-10-000-802-A	ILLUMINATED PLACARD ASSEMBLY - REMOVAL (TYPICAL)	ALL
20-13-10-400-802-A	ILLUMINATED PLACARD ASSEMBLY - INSTALLATION (TYPICAL)	ALL



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TASK 20-13-10-000-801-A

EFFECTIVITY: ALL

2. CONTROL PANELS - REMOVAL (TYPICAL)

A. General

- (1) This task gives typical procedures to remove a control panel.

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	Where applicable

H. Removal (Figure 401)

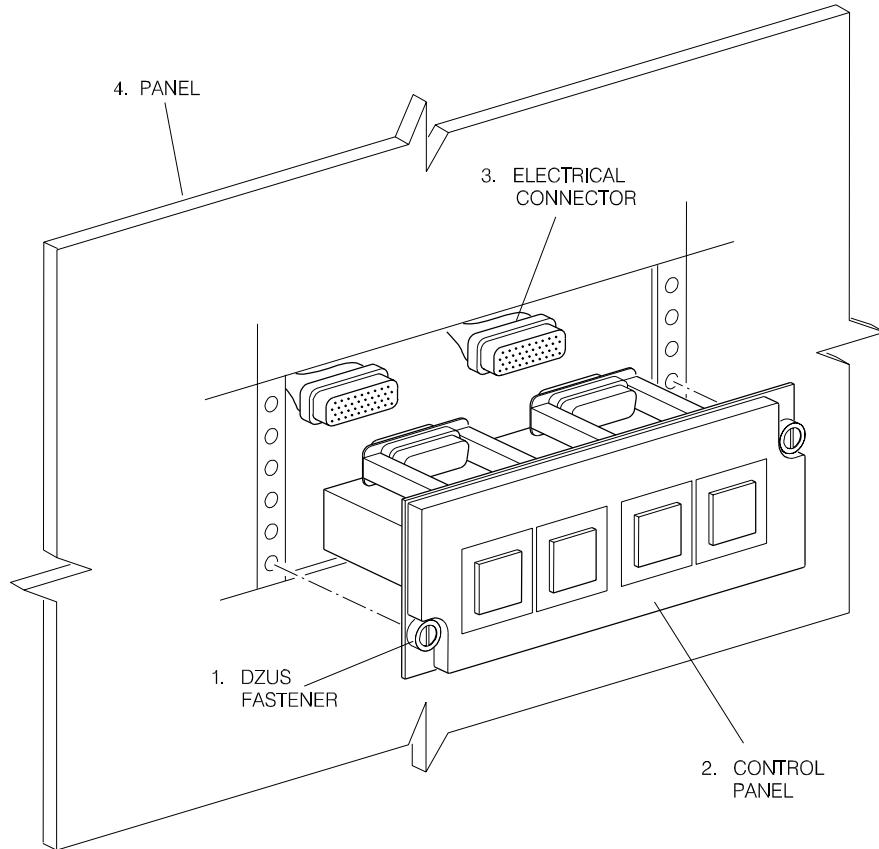
SUBTASK 020-002-A

- (1) Open the applicable circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) Loosen the Dzus fasteners (1) which attach the control panel (2) to the panel (9).
- (3) Carefully pull the control panel (2) from its housing to get access to the electrical connector(s) (3).
- (4) Disconnect the electrical connector(s) (3) from the control panel.
- (5) Install protection caps on the electrical connector(s) (3).

EFFECTIVITY: ALL

Control Panels - Removal/Installation

Figure 401



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TASK 20-13-10-400-801-A

EFFECTIVITY: ALL

3. CONTROL PANELS - INSTALLATION (TYPICAL)

A. General

- (1) This task gives typical procedures to install a control panel.

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	Where applicable

H. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Remove the protection caps from the electrical connectors.
- (2) Hold the control panel (2) and connect the electrical connector(s) (3).
- (3) Carefully install the control panel (2) in its installation position.
- (4) Tighten the Dzus fasteners (1).

I. Follow-on

SUBTASK 842-002-A

- (1) Close the related circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (2) Do the applicable system test.



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TASK 20-13-10-000-802-A

EFFECTIVITY: ALL

4. ILLUMINATED PLACARD ASSEMBLY - REMOVAL (TYPICAL)

A. General

- (1) This task gives typical procedures to remove an illuminated placard assembly and also a lighting assembly. The lighting assembly is the system that illuminates the placard assembly.
- (2) This task is not applicable to the removal of a specific illuminated placard assembly.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-13-03-000-801-A/400	SWITCHES AND POTENTIOMETERS - REMOVAL (TYPICAL)
AMM TASK 20-13-10-000-801-A/400	CONTROL PANELS - REMOVAL (TYPICAL)

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	Where applicable

I. Preparation

SUBTASK 841-002-A

- (1) Open the applicable circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) Remove the applicable control panel. To do this, refer to [\(AMM TASK 20-13-10-000-801-A/400\)](#).

J. Removal (Figure 402)

SUBTASK 020-003-A

- (1) Remove the guard assembly (7), if applicable. To do this, remove the screws (8) and the washers (9) that attach it.



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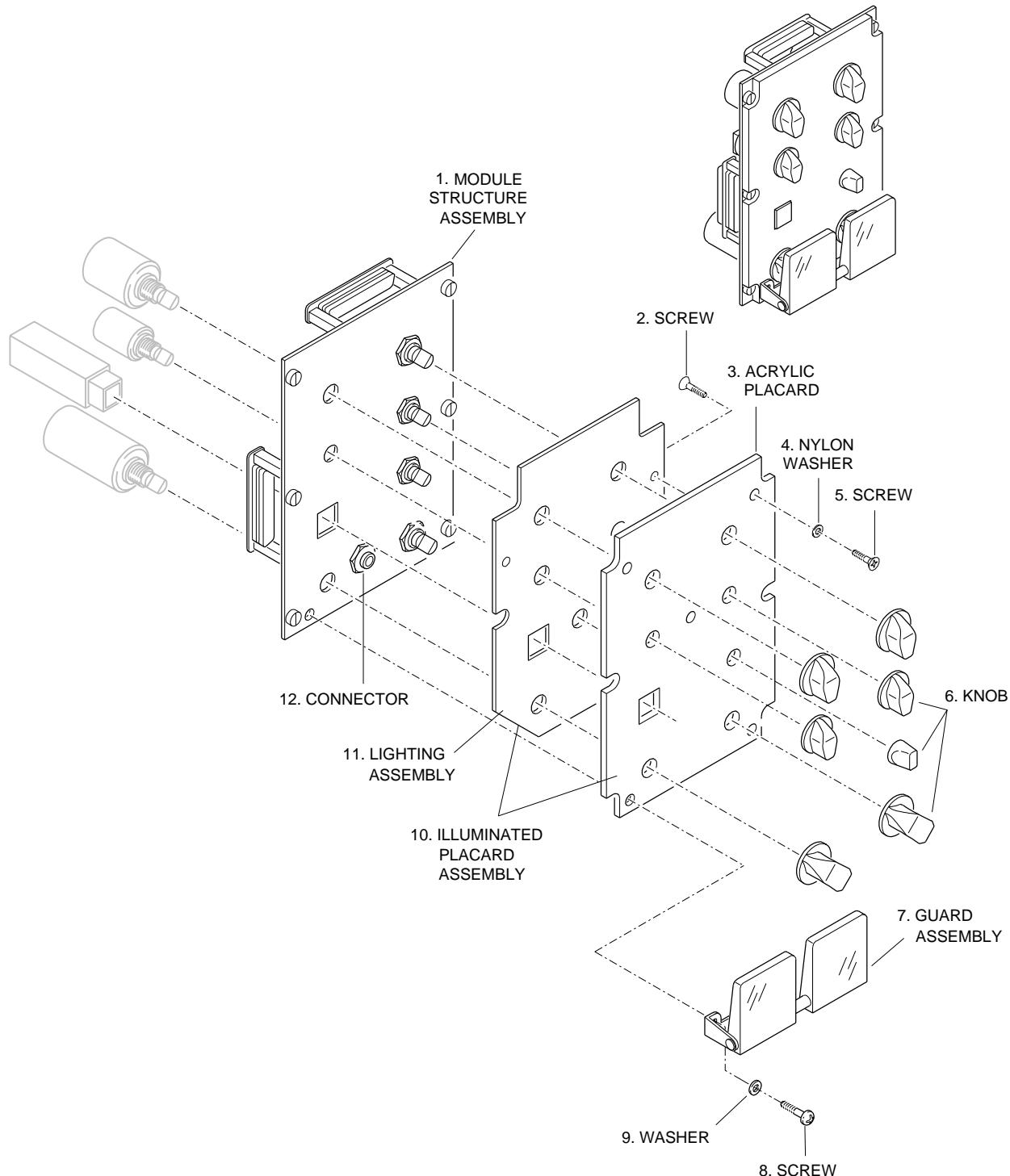
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- (2) Remove the knob(s) (6), if applicable. To do this, refer to ([AMM TASK 20-13-03-000-801-A/400](#)).
 - (3) To remove other than the types of knobs shown in ([Figure 402](#)), refer to ([AMM TASK 20-13-03-000-801-A/400](#)).
 - (4) Remove the screws (5) and nylon washers (4).
 - (5) Remove the illuminated placard assembly (10) from the module structure assembly (1).
 - (6) Remove the screws (2) from the lighting assembly (11).
- CAUTION:** THE CONNECTOR (12) LOCATED ON THE MODULE STRUCTURE ASSEMBLY(1) IS EASILY DAMAGED. BE CAREFUL WHEN YOU REMOVE OR INSTALL THE LIGHTING ASSEMBLY (11).
- (7) Carefully remove the lighting assembly (11) from the acrylic placard (3).

EFFECTIVITY: ALL

Illuminated Placard Assembly - Removal/Installation

Figure 402



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TASK 20-13-10-400-802-A

EFFECTIVITY: ALL

5. ILLUMINATED PLACARD ASSEMBLY - INSTALLATION (TYPICAL)

A. General

- (1) This task gives typical procedures to install an illuminated placard assembly and also a lighting assembly. The lighting assembly is the system that illuminates the placard assembly.
- (2) This task is not applicable to the installation of a specific illuminated placard assembly.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-13-03-400-801-A/400	SWITCHES AND POTENTIOMETERS - INSTALLATION (TYPICAL)
AMM TASK 20-13-10-400-801-A/400	CONTROL PANELS - INSTALLATION (TYPICAL)

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	Where applicable

I. Installation (Figure 402)

SUBTASK 420-003-A

CAUTION: THE CONNECTOR (12) LOCATED ON THE MODULE STRUCTURE ASSEMBLY (1) IS EASILY DAMAGED. BE CAREFUL WHEN YOU REMOVE OR INSTALL THE LIGHTING ASSEMBLY (11).

- (1) Install the lighting assembly (11) on the acrylic placard (3).
- (2) Install the screws (2) on the lighting assembly (11)
- (3) Install the illuminated placard assembly (10) on the module structure assembly (1).
- (4) NOTE: Carefully install the screws (5) on the illuminated placard assembly (10) because the nylon washers (4) are easily damaged.



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Install the screws (5) and nylon washers (4).

- (5) Install the knob(s) (6), if applicable. To do this, refer to ([AMM TASK 20-13-03-400-801-A/400](#))
- (6) To install other than the types of knobs shown in (Figure 402), refer to ([AMM TASK 20-13-03-400-801-A/400](#)).
- (7) Install the guard assembly (7). To do this, install the screws (8) and the washers (9) that attach it.

J. Follow-on

SUBTASK 842-003-A

- (1) Install the applicable control panel. To do this, refer to ([AMM TASK 20-13-10-400-801-A/400](#)).
- (2) Close the related circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (3) Do the applicable system test.

