



AIRCRAFT
MAINTENANCE MANUAL

CONTROL STAND ASSEMBLY - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to remove/install the control stand assembly.
- B. The control stand assembly is installed in the control pedestal.
- 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
76-11-01-000-801-A	CONTROL STAND ASSEMBLY - REMOV- AL	ALL
76-11-01-400-801-A	CONTROL STAND ASSEMBLY - INSTAL- LATION	ALL



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 76-11-01-000-801-A

EFFECTIVITY: ALL

2. CONTROL STAND ASSEMBLY - REMOVAL

A. General

- (1) Obey these instructions to remove the control pedestal.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-03/100	- COMPONENT LOCATION
AMM TASK 27-63-03-000-801-A/400	SPEED BRAKE COMMAND LEVER - REMOVAL
AMM TASK 76-11-05-000-801-A/400	CONTROL STAND MASK - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223	223OZ	Control Pedestal
223	223NZ	Control Pedestal
223	223SZ	Control Pedestal
223	223RZ	Control Pedestal

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 183	Control Stand Holder	To hold the control stand	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
01	Does the task	Cockpit

I. Preparation

SUBTASK 841-002-A

- (1) (FOR AIRCRAFT WITH THRUST REVERSER) On the circuit breaker panel, open these circuit breakers and attach DO-NOT-CLOSE tags to them:

- LIGHTS - PEDESTAL PANEL.

- POWERPLANT - START 1/2.
 - POWERPLANT - FADEC 1A/2A - 1B/2B.
 - POWERPLANT - ELEC. IDLE STOP 1/2.
 - POWERPLANT - THRUST REVERSER 1/2.
- (2) (FOR AIRCRAFT WITHOUT THRUST REVERSER) On the circuit breaker panel, open these circuit breakers and attach DO-NOT-CLOSE tags to them:
- LIGHTS - PEDESTAL PANEL.
 - POWERPLANT - START 1/2.
 - POWERPLANT - FADEC 1A/2A - 1B/2B.
- (3) Remove access panels 223SZ and 223RZ ([AMM MPP 06-41-03/100](#)).
- (4) Remove the control stand mask ([AMM TASK 76-11-05-000-801-A/400](#)).
- (5) Remove the aileron-disconnect indication light (8) from panel 223NZ (9), but do not disconnect the electrical connector.
- (6) **NOTE:** To do the step that follows, loosen the aileron-disconnect indication-light harness through access panel 223RZ.
 Move access panel 223NZ (9) to the right side of the control pedestal ([AMM MPP 06-41-03/100](#)).
- (7) Remove the speed-brake command lever ([AMM TASK 27-63-03-000-801-A/400](#)).
- (8) Remove the elevator-disconnect indication light (7) from panel 223OZ (10), but do not disconnect the electrical connector.
- (9) **NOTE:** To do the step that follows, loosen the elevator-disconnect indication-light harness through access panel 223SZ.
 Move access panel 223OZ (10) to the left side of the control pedestal ([AMM MPP 06-41-03/100](#)).

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

SUBTASK 020-002-A

CAUTION: BE CAREFUL NOT TO HIT THE MICROSWITCH ASSEMBLY WHEN YOU REMOVE THE CONTROL STAND ASSEMBLY.

CAUTION: CORRECTLY IDENTIFY THE CONNECTORS TO PREVENT INVERTED INSTALLATION.

- (1) (FOR AIRCRAFT WITH MECHANICAL GUST LOCK) Remove the cotter pin (12), washer (13), and pin (15). Disconnect the tie rod (14) from the gust-lock control lever (11).
- (2) (FOR AIRCRAFT WITH ELECTROMECHANICAL GUST LOCK) Remove the cotter pin (12) and pin (15). Disconnect the return spring terminal (16) from the gust-lock control lever (11).



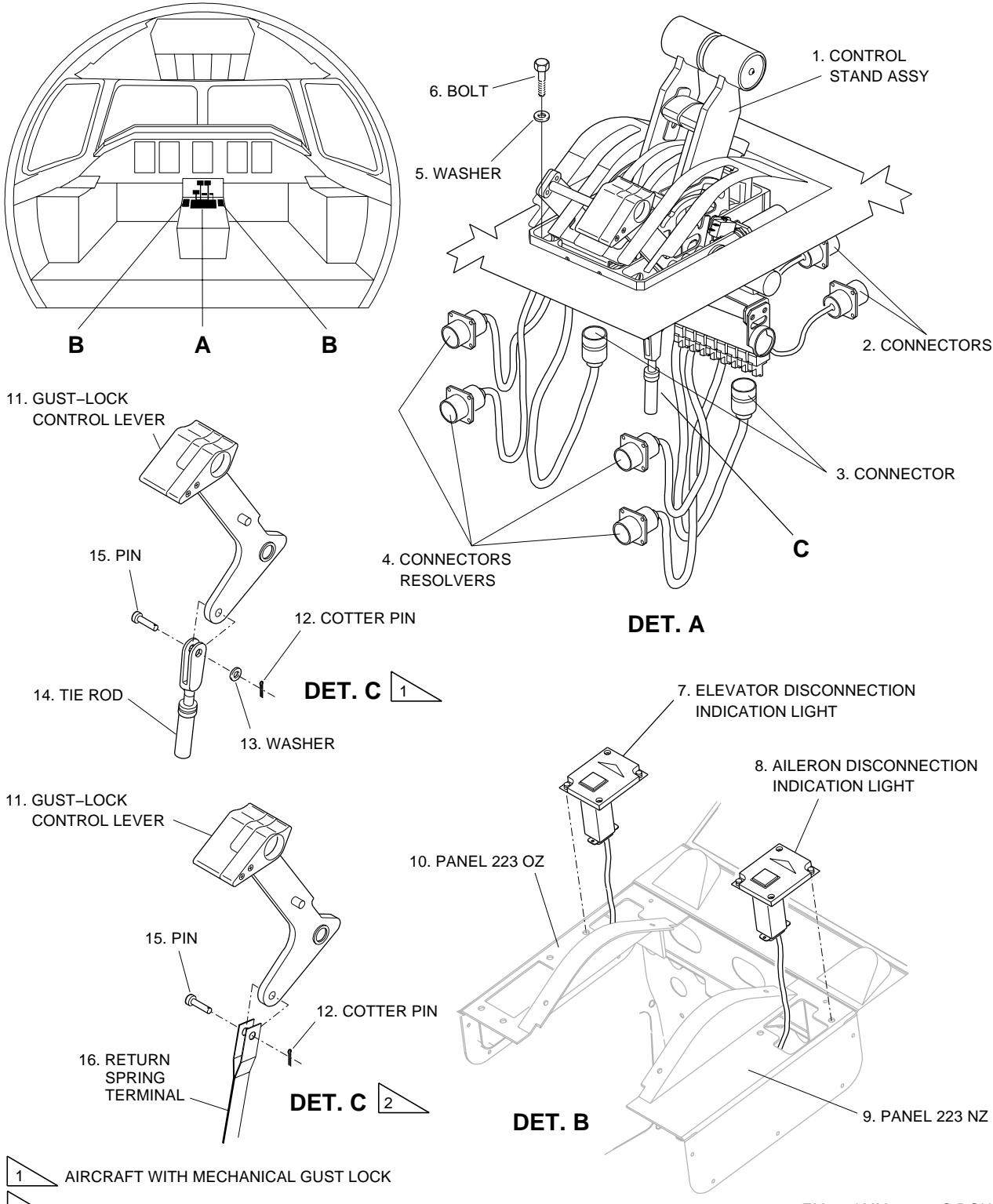
EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

- (3) Remove the electrical connectors (4) of the thrust lever resolver.
- (4) Remove the electrical connectors (3) of the idle lock solenoid.
- (5) Remove the electrical connectors (2) of the engine thrust-lever microswitch assembly.
- (6) Remove the bolts (6) and washers (5).
- (7) Remove the control stand assembly from the control pedestal. Put the control stand assembly on the control stand holder.

EFFECTIVITY: ALL

Control Stand Assembly - Removal/Installation
Figure 401





EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 76-11-01-400-801-A

EFFECTIVITY: ALL

3. CONTROL STAND ASSEMBLY - INSTALLATION

A. General

- (1) Obey these instructions to install the control pedestal.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-03/100	- COMPONENT LOCATION
AMM TASK 27-63-03-400-801-A/400	SPEED BRAKE COMMAND LEVER - INSTALLATION
AMM TASK 76-11-05-400-801-A/400	CONTROL STAND MASK - INSTALLATION
AMM TASK 76-11-06-700-801-A/500	THRUST-LEVER MICROSWITCH ASSEMBLY - FUNCTIONAL CHECK
AMM TASK 76-12-01-700-801-A/500	THRUST LEVER RESOLVER - FUNCTIONAL CHECK
AMM TASK 76-13-03-700-801-A/500	IDLE LOCKOUT MICROSWITCH - OPERATIONAL CHECK
IPC 27-71-00	GUST LOCK ELECTROMECHANICAL
WM 27-70-50	-
WM 76-12-55	-
WM 76-12-56	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223	223OZ	Control Pedestal
223	223NZ	Control Pedestal
223	223SZ	Control Pedestal
223	223RZ	Control Pedestal

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Cotter Pin	IPC 27-71-00	1



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

H. Persons Recommended

QTY	FUNCTION	PLACE
01	Does the task	Cockpit

I. Installation (Figure 401)

SUBTASK 420-002-A

CAUTION: BE CAREFUL NOT TO HIT THE MICROSWITCH ASSEMBLY WHEN YOU INSTALL THE CONTROL STAND ASSEMBLY.

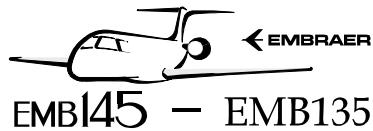
CAUTION: MAKE SURE THAT THE CONNECTIONS ARE CORRECT TO PREVENT INVERTED INSTALLATION.

- (1) Remove the control stand assembly from the control stand holder.
- (2) Put the control stand assembly in the control pedestal. Install the control stand assembly with screws (6) and washers (5).
- (3) Install the electrical connectors (2) to the thrust-lever microswitch assembly (P1270 to J1270 and P1269 to J1269) (WM 27-70-50).
- (4) Install the electrical connectors (3) (P0926 and P0925) to the idle lock solenoid.
- (5) Install the electrical connectors (4) to the thrust lever resolver (for E1, connect J1009 to P1 and J1011 to P2. For E2, connect J1008 to P1 and J1010 to P2) (WM 76-12-55 and WM 76-12-56).
- (6) (FOR AIRCRAFT WITH MECHANICAL GUST LOCK) Connect the tie rod (14) to the gust-lock control lever (11). Install the pin (15), washer (13), and cotter pin (12).
- (7) (FOR AIRCRAFT WITH ELECTROMECHANICAL GUST LOCK) Connect the return spring terminal (16) to the gust-lock control lever (11). Install the pin (15) and cotter pin (12).

J. Follow-on

SUBTASK 842-002-A

- (1) Install access panel 223OZ ([AMM MPP 06-41-03/100](#)).
- (2) Install the elevator-disconnect indication light (7) to panel 223OZ (10).
- (3) Install the speed-brake command lever ([AMM TASK 27-63-03-400-801-A/400](#)).
- (4) Install access panel 223NZ ([AMM MPP 06-41-03/100](#)).
- (5) Install the aileron-disconnect indication light (8) to panel 223NZ (9).
- (6) Install the control stand mask ([AMM TASK 76-11-05-400-801-A/400](#)).
- (7) Install access panels 223SZ and 223RZ ([AMM MPP 06-41-03/100](#)).
- (8) (FOR AIRCRAFT WITH THRUST REVERSER) On the circuit breaker panel, remove the DO-NOT-CLOSE tags and close these circuit breakers:
 - LIGHTS - PEDESTAL PANEL.



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

- POWERPLANT - START 1/2.
 - POWERPLANT - FADEC 1A/2A - 1B/2B.
 - POWERPLANT - ELEC. IDLE STOP 1/2.
 - POWERPLANT - THRUST REVERSER 1/2.
- (9) (FOR AIRCRAFT WITHOUT THRUST REVERSER) On the circuit breaker panel, remove the DO-NOT-CLOSE tags and close these circuit breakers:
- LIGHTS - PEDESTAL PANEL.
 - POWERPLANT - START 1/2.
 - POWERPLANT - FADEC 1A/2A - 1B/2B.
- (10) Do the Thrust Lever Microswitch Assembly Functional Check ([AMM TASK 76-11-06-700-801-A/500](#)).
- (11) Do the Thrust Lever Resolver Functional Check ([AMM TASK 76-12-01-700-801-A/500](#)).
- (12) (FOR AIRCRAFT WITH THRUST REVERSER) Do the Idle Lockout Microswitch Operational Check ([AMM TASK 76-13-03-700-801-A/500](#)).