



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

THRUST LEVER MICROSWITCH - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to remove/install the thrust-lever microswitch assembly.
- B. The thrust-lever microswitch assembly is installed in the control stand assembly.
- C. These procedures are applicable to the LH and RH thrust-lever microswitch assemblies.
- 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
76-11-06-000-801-A	THRUST-LEVER MICROSWITCH ASSEM- BLY - REMOVAL	ALL
76-11-06-400-801-A	THRUST-LEVER MICROSWITCH ASSEM- BLY - INSTALLATION	ALL



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 76-11-06-000-801-A

EFFECTIVITY: ALL

2. THRUST-LEVER MICROSWITCH ASSEMBLY - REMOVAL

A. General

- (1) This task gives the necessary instructions to remove the thrust-lever microswitch assembly.

B. References

REFERENCE	DESIGNATION
AMM TASK 76-11-01-000-801-A/400	CONTROL STAND ASSEMBLY - 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 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

- (2) (For aircraft with thrust reverser) On the circuit breaker panel, open these circuit breakers and attach DO-NOT-CLOSE tags to them:
 - POWERPLANT - ELEC. IDLE STOP 1/2
 - POWERPLANT - THRUST REVERSER 1/2
 - LIGHTS - PEDESTAL PANEL
 - POWERPLANT - START 1/2
 - POWERPLANT - FADEC 1A/2A - 1B/2B
- (3) Remove the control stand assembly ([AMM TASK 76-11-01-000-801-A/400](#)).
- (4) Put the control stand assembly on the control stand holder.

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

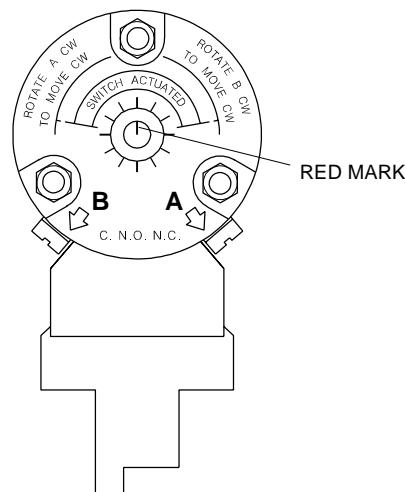
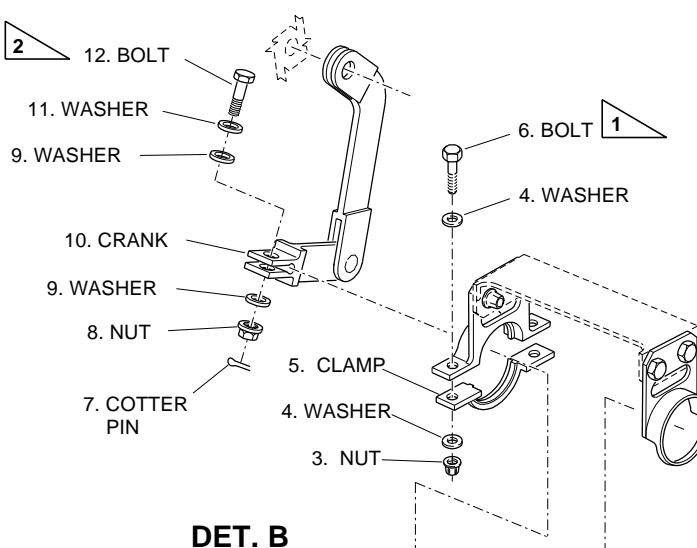
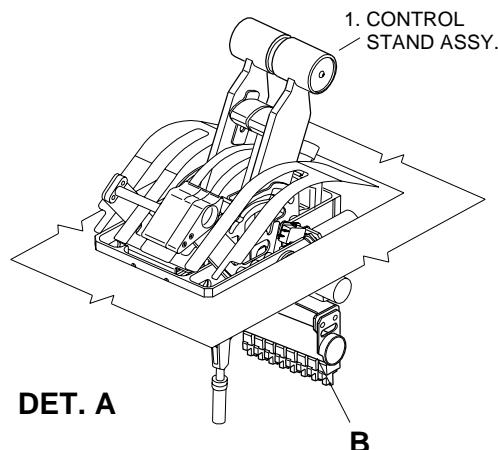
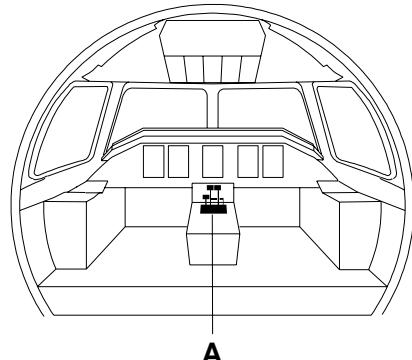
SUBTASK 020-002-A

- (1) Remove the cotter pin (7).
- (2) Loosen the nut (8), washers (9 and 11) and bolt (12). Remove the engine control crank (10) from the camshaft of the thrust-lever microswitch assembly.
- (3) Remove the nuts (3), washers (4), and bolt (6).
- (4) Remove the clamp (5) and move the thrust-lever microswitch assembly (2) from its position.
- (5) Identify each electrical terminal of the thrust-lever microswitch assembly.
- (6) Remove the electrical terminals and then remove the thrust-lever microswitch assembly.

EFFECTIVITY: ALL

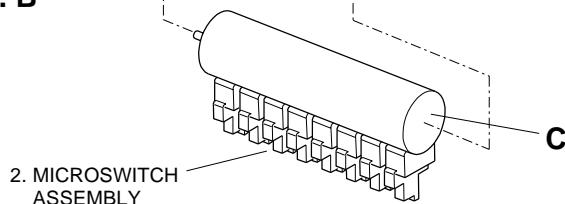
Thrust-Lever Microswitch Assembly - Removal/Installation

Figure 401



DET. B

DET. C



1 TORQUE: 2.26 N.m TO 2.82 N.m (20 lbf.in TO 25 lbf.in)

2 TORQUE: 4.52 N.m TO 5.65 N.m (40 lbf.in TO 50 lbf.in)

145AMM760014.MCE C

TASK 76-11-06-400-801-A
EFFECTIVITY: ALL
3. THRUST-LEVER MICROSWITCH ASSEMBLY - INSTALLATION
A. General

- (1) This task gives the necessary instructions to install the thrust-lever microswitch assembly.

B. References

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM TASK 76-11-01-400-801-A/400	CONTROL STAND ASSEMBLY - INSTALLATION
AMM TASK 76-11-06-820-801-A/500	THRUST-LEVER MICROSWITCH ASSEMBLY - ADJUSTMENT PROCEDURES

C. Zones and Accesses

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

D. Tools and Equipment

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
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

<i>QTY</i>	<i>FUNCTION</i>	<i>PLACE</i>
01	Does the task	Cockpit

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

- (1) Install each identified electrical terminal to its correct position on the thrust-lever microswitch assembly.
- (2) Put the thrust-lever microswitch assembly (2) to its position.



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

- (3) Install the clamp (5) to the thrust-lever microswitch assembly (2) with bolts (6), washers (4), and nuts (3).

- (4) Install the engine control crank (10) to the camshaft of the thrust-lever microswitch assembly (2).

NOTE: When you install the engine control crank, make sure that the engine thrust lever is in the 12:00 o'clock (vertical) position, and that the red mark in the microswitch assembly also points to the 12:00 o'clock (vertical) position.

- (5) Tighten the engine control crank (10) to the camshaft with the bolt (12), washers (9 and 11), and nut (8).

- (6) Install the cotter pin (7).

J. Follow-on

SUBTASK 842-002-A

- (1) Adjust the thrust-lever microswitch assembly ([AMM TASK 76-11-06-820-801-A/500](#)).

- (2) Install the control stand assembly ([AMM TASK 76-11-01-400-801-A/400](#)).

- (3) (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

- (4) (For aircraft with thrust reverser) On the circuit breaker panel, remove the DO-NOT-CLOSE tags and close these circuit breakers:

- POWERPLANT - ELEC. IDLE STOP 1/2
- POWERPLANT - THRUST REVERSER 1/2
- LIGHTS - PEDESTAL PANEL
- POWERPLANT - START 1/2
- POWERPLANT - FADEC 1A/2A - 1B/2B