



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

IDLE LOCKOUT SOLENOID - REMOVAL/INSTALLATION

EFFECTIVITY: AIRCRAFT WITH THRUST REVERSERS

1. General

- A. This section gives the procedure to remove/install the idle lock solenoid.
- B. The idle lock solenoid is installed in the control stand assembly.
- C. These procedures are applicable to the LH and RH idle lock solenoids.
- 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
76-13-02-000-801-A	IDLE LOCK SOLENOID - REMOVAL	AIRCRAFT WITH THRUST REVERSERS
76-13-02-400-801-A	IDLE LOCK SOLENOID - INSTALLATION	AIRCRAFT WITH THRUST REVERSERS



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 76-13-02-000-801-A

EFFECTIVITY: AIRCRAFT WITH THRUST REVERSERS

2. IDLE LOCK SOLENOID - REMOVAL

A. General

- (1) Obey these instructions to remove the idle lock solenoid.

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 76-11-01-000-801-A/400	CONTROL STAND ASSEMBLY - 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

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

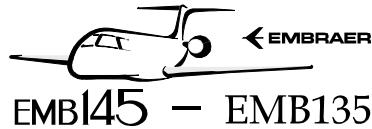
H. Persons Recommended

QTY	FUNCTION	PLACE
01	Does the task	Cockpit

I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open these circuit breakers and attach DO-NOT-CLOSE tags to them:
 - POWERPLANT - ELEC. IDLE STOP 1/2
- (2) Remove access panels 223SZ and 223RZ ([AMM MPP 06-41-03/100](#)).



AIRCRAFT MAINTENANCE MANUAL

- (3) Remove the control stand mask ([AMM TASK 76-11-05-000-801-A/400](#)).
- (4) Remove the aileron-disconnect indication light from panel 223NZ, but do not disconnect the electrical connector ([AMM TASK 76-11-01-000-801-A/400](#)).
- (5) **NOTE:** To do the step that follows, loosen the aileron-disconnect indication-light harness through access panel 223RZ.
Move access panel 223NZ to the right side of the control pedestal ([AMM MPP 06-41-03/100](#)).
- (6) Remove the speed-brake command lever ([AMM TASK 27-63-03-000-801-A/400](#)).
- (7) Remove the elevator-disconnect indication light from panel 223OZ, but do not disconnect the electrical connector ([AMM TASK 76-11-01-000-801-A/400](#)).
- (8) **NOTE:** To do the step that follows, loosen the elevator-disconnect indication-light harness through access panel 223SZ.
Move access panel 223OZ to the left side of the control pedestal ([AMM MPP 06-41-03/100](#)).

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

SUBTASK 020-002-A

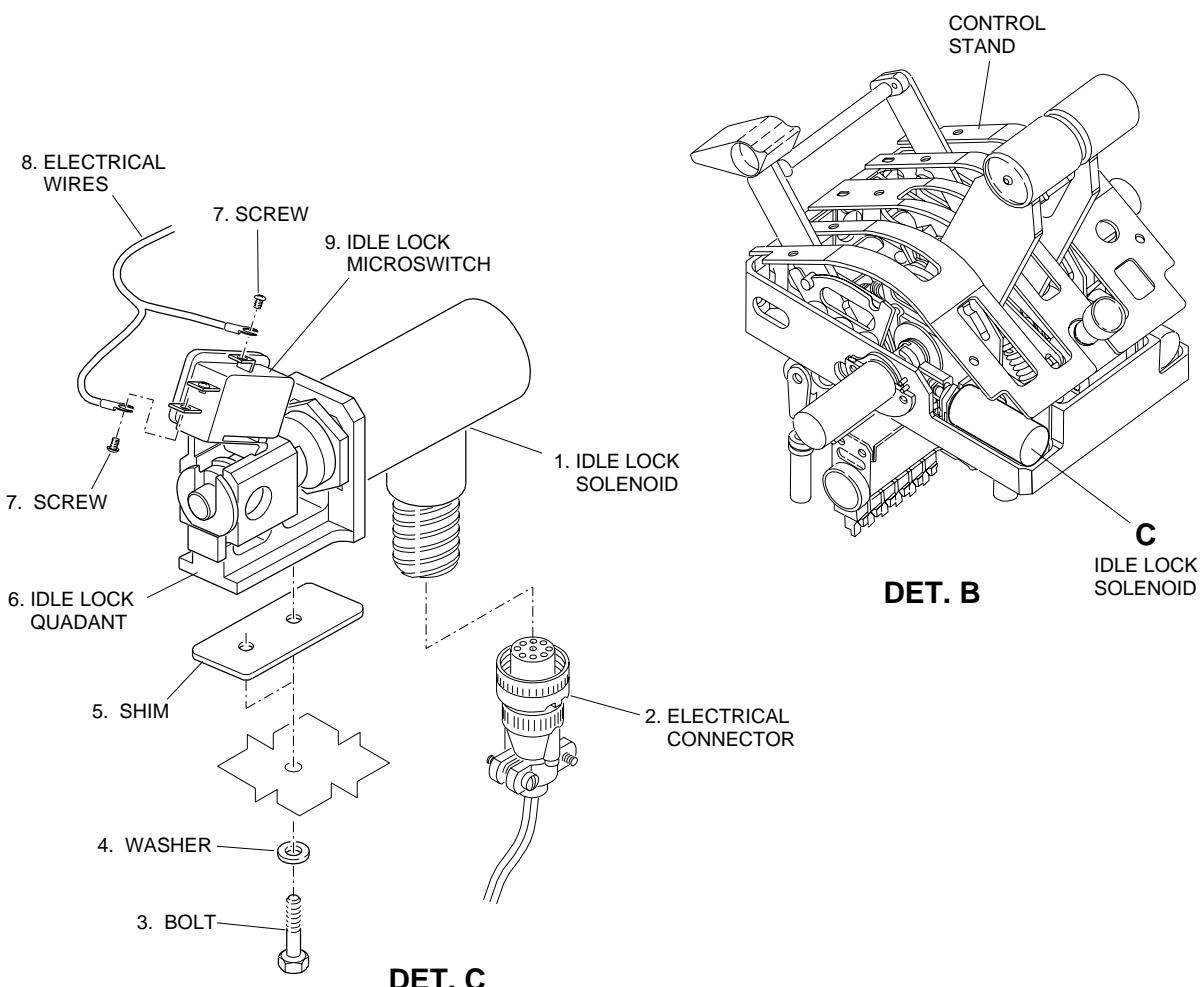
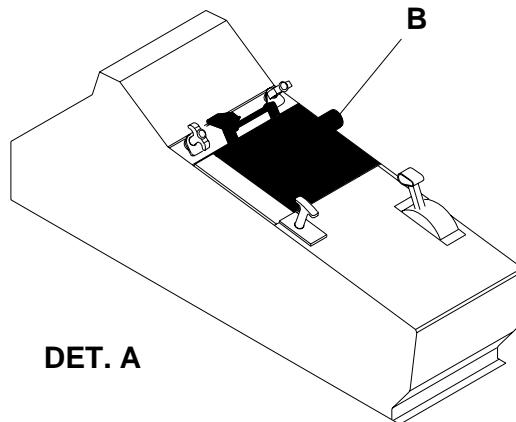
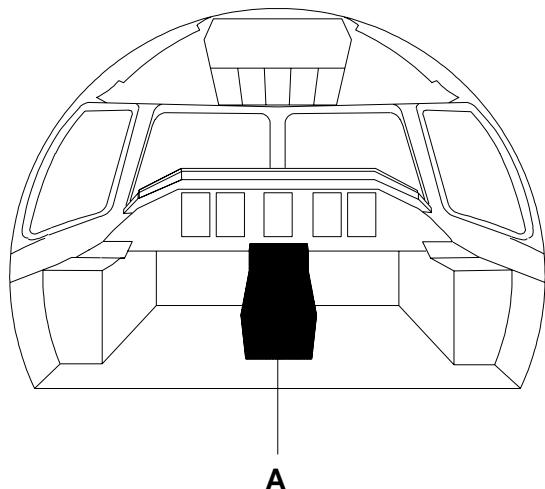
CAUTION: CORRECTLY IDENTIFY THE CONNECTOR TO PREVENT INVERTED INSTALLATION.

- (1) Remove the electrical connector (2) from the idle lock solenoid (1).
- (2) Remove the bolt (3), washers (4), and shim (5) from the idle lock quadrant (6).
NOTE: Carefully keep the shim because, if you lose it, a new adjustment will be necessary.
- (3) Loosen the screws (7) and remove the electrical wires (8) from the idle lock microswitch (9).
- (4) Remove the idle lock solenoid (1).

EFFECTIVITY: AIRCRAFT WITH THRUST REVERSERS

Idle Lock Solenoid - Removal/Installation

Figure 401



145AMM760017.MCE A



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 76-13-02-400-801-A

EFFECTIVITY: AIRCRAFT WITH THRUST REVERSERS

3. IDLE LOCK SOLENOID - INSTALLATION

A. General

- (1) Obey these instructions to install the idle lock solenoid.

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 76-11-01-400-801-A/400	CONTROL STAND ASSEMBLY - INSTALLATION
AMM TASK 76-11-05-400-801-A/400	CONTROL STAND MASK - INSTALLATION
AMM TASK 76-13-02-820-801-A/500	IDLE LOCK SOLENOID - ADJUSTMENT PROCEDURES
AMM TASK 76-13-03-700-801-A/500	IDLE LOCKOUT MICROSWITCH - OPERATIONAL CHECK

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. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
01	Does the task	Cockpit

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the idle lock solenoid (1) in position.



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

- (2) Install the bolts (3), washers (4), and the shim (5) to the idle lock quadrant.

NOTE: Adjust the idle lock solenoid ([AMM TASK 76-13-02-820-801-A/500](#)), if applicable.

- (3) Install the electrical wires (8) to the idle lock microswitch (9). Tighten the electrical wires with the screws (7).

CAUTION: MAKE SURE THAT THE CONNECTION IS CORRECT TO PREVENT INVERTED INSTALLATION.

- (4) Install the electrical connector (2) to the idle lock solenoid.

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 to panel 223OZ ([AMM TASK 76-11-01-400-801-A/400](#)).
- (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 to panel 223NZ ([AMM TASK 76-11-01-400-801-A/400](#)).
- (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) On the circuit breaker panel, remove the DO-NOT-CLOSE tags and close these circuit breakers:
 - POWERPLANT - ELEC. IDLE STOP 1/2.
- (9) Do the idle lockout-microswitch operational check ([AMM TASK 76-13-03-700-801-A/500](#)).