

SOLENOID - REMOVAL/INSTALLATION

EFFECTIVITY: AIRCRAFT WITH ELECTROMECHANICAL GUST LOCK

1. General

- A. This section gives the procedures to remove and install the electromechanical gust-lock lever locking solenoid.
- B. The electromechanical gust-lock lever locking solenoid is a component of the control stand assembly. It is installed in the control pedestal.
- C. The locking solenoid can be removed in the aircraft cockpit but it must be installed on a bench.
- D. This permits the gust lock lever to be moved from the intermediate position to the unlocked position in case of solenoid rod stuck actuated.
- E. 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
27-71-06-000-801-A	SOLENOID - REMOVAL	AIRCRAFT WITH ELECTROMECHANICAL GUST LOCK
27-71-06-400-801-A	SOLENOID - INSTALLATION	AIRCRAFT WITH ELECTROMECHANICAL GUST LOCK

TASK 27-71-06-000-801-A

EFFECTIVITY: AIRCRAFT WITH ELECTROMECHANICAL GUST LOCK

2. SOLENOID - REMOVAL

A. General

- (1) This task gives the procedure to remove the electromechanical gust lock solenoid.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-03/100	- COMPONENT LOCATION
AMM TASK 76-11-01-000-801-A/400	CONTROL STAND ASSEMBLY - REMOVAL
DDPM 27-70-00	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
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
1	Does the task	Cockpit
1	Helps the other technician	Cockpit

I. Preparation

SUBTASK 841-002-A

- (1) Set the gust lock lever to the locked position.
- (2) Remove access panels 223SZ and 223RZ [AMM MPP 06-41-03/100](#).

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

SUBTASK 020-002-A

WARNING: • BE CAREFUL, THE SOLENOID CAN BE HEATED.

- MAKE SURE YOU DO NOT TOUCH THE THRUST LEVER RESOLVER CONNECTOR OR ANY OTHER CONNECTOR FROM THE CONTROL STAND ASSEMBLY.
- MAKE SURE THAT THE RUDDER, HORIZONTAL STABILIZER, AND ELEVATOR CANNOT BE OPERATED ACCIDENTALLY. AN ACCIDENTAL OPERATION CAN CAUSE INJURY TO PERSONS.

- (1) Disconnect the connector (6) from the solenoid (7).
- (2) Remove and lift the control stand assembly sufficient to get access to solenoid. Refer to [AMM TASK 76-11-01-000-801-A/400](#).
- (3) Remove the bolts (1), washers (2) and (4) and nuts (5) to remove the solenoid from the control stand assembly.

K. Follow-on

SUBTASK 842-002-A

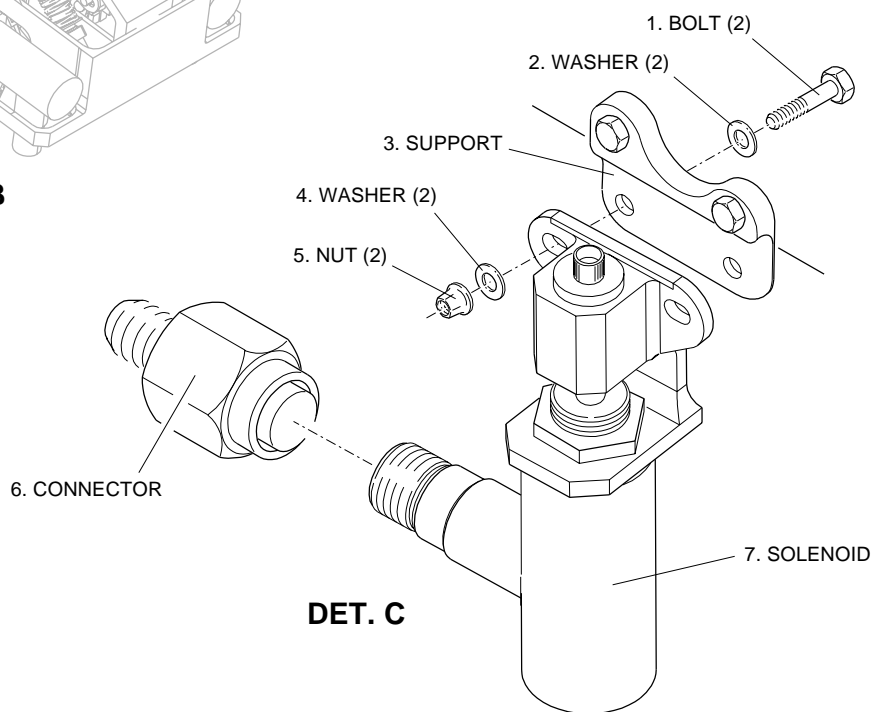
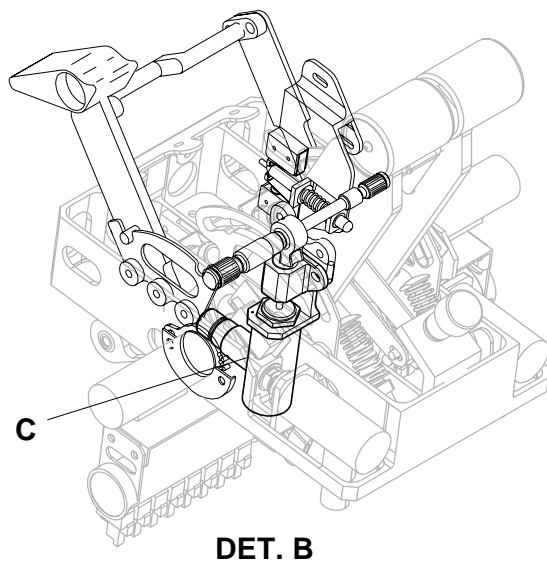
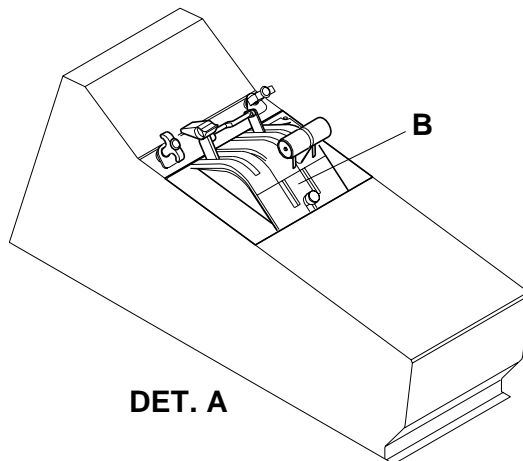
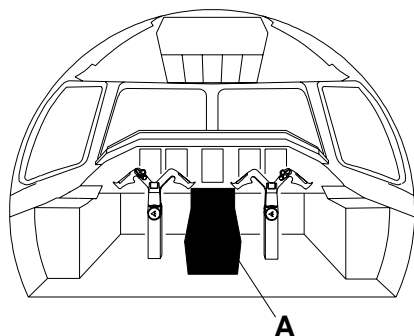
WARNING: AFTER THE SOLENOID REMOVAL, THE FLIGHT IS PERMITTED WITH THE ELECTROMECHANICAL GUST LOCK SYSTEM INOPERATIVE. REFER TO DISPATCH DEVIATIONS PROCEDURES MANUAL DDPM 27-70-00.

- (1) Install access panels 223SZ and 223RZ [AMM MPP 06-41-03/100](#).

EFFECTIVITY: AIRCRAFT WITH ELECTROMECHANICAL GUST LOCK

Solenoid - Removal/Installation

Figure 401



EM145AMM270553A.DGN

TASK 27-71-06-400-801-A

EFFECTIVITY: AIRCRAFT WITH ELECTROMECHANICAL GUST LOCK

3. SOLENOID - INSTALLATION

A. General

- (1) This task gives the procedure to install the electromechanical gust lock solenoid.
- (2) To install the electromechanical gust lock solenoid, it is necessary that the control stand assembly be removed first.
- (3) The procedure to install the electromechanical gust lock solenoid is given in the EMBRAER Component Maintenance Manual of the Control Stand Assembly. Refer to the latest revision of T.P. 145/1226.

B. References

REFERENCE	DESIGNATION
AMM TASK 27-71-00-700-801-A/500	ELECTROMECHANICAL GUST LOCK - OPERATION-AL CHECK
AMM TASK 76-11-01-000-801-A/400	CONTROL STAND ASSEMBLY - REMOVAL
AMM TASK 76-11-01-400-801-A/400	CONTROL STAND ASSEMBLY - INSTALLATION
T.P. 145/1226	-

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
1	Does the task	Cockpit
1	Helps the other technician	Cockpit

I. Installation (Figure 401)

SUBTASK 420-002-A

WARNING: • **MAKE SURE THAT THE RUDDER, HORIZONTAL STABILIZER, AND ELEVATOR CANNOT BE OPERATED ACCIDENTALLY. AN ACCIDENTAL OPERATION CAN CAUSE INJURY TO PERSONS.**

- **THE LOCKING SOLENOID CAN BE REMOVED IN THE AIRCRAFT COCKPIT BUT IT MUST BE INSTALLED ON A BENCH.**

- (1) Remove the control stand assembly. Refer to [AMM TASK 76-11-01-000-801-A/400](#).
- (2) To do the installation procedure, refer to the latest revision of the EMBRAER Component Maintenance Manual of the Control Stand Assembly (T.P. 145/1226).
- (3) Install the control stand assembly. Refer to [AMM TASK 76-11-01-400-801-A/400](#).

J. Follow-on

SUBTASK 842-003-A

- (1) Do the operational check of the electromechanical gust lock system. Refer to [AMM TASK 27-71-00-700-801-A/500](#).