

DISENGAGE SWITCH - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the disengage switch.
- 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
32-50-08-000-801-A	DISENGAGE SWITCH - REMOVAL	ALL
32-50-08-400-801-A	DISENGAGE SWITCH - INSTALLATION	ALL

TASK 32-50-08-000-801-A

EFFECTIVITY: ALL

2. DISENGAGE SWITCH - REMOVAL

A. General

(1) This task gives the procedures to remove the disengage switch.

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223	223	Cockpit LH
224	224	Cockpit RH

C. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Soldering iron (30 W)	To remove the solder and release the wires	

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	In the cockpit

H. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the STEER circuit breaker and attach a DO-NOT-CLOSE tag to it.

I. Removal [\(Figure 401\)](#)

SUBTASK 020-002-A

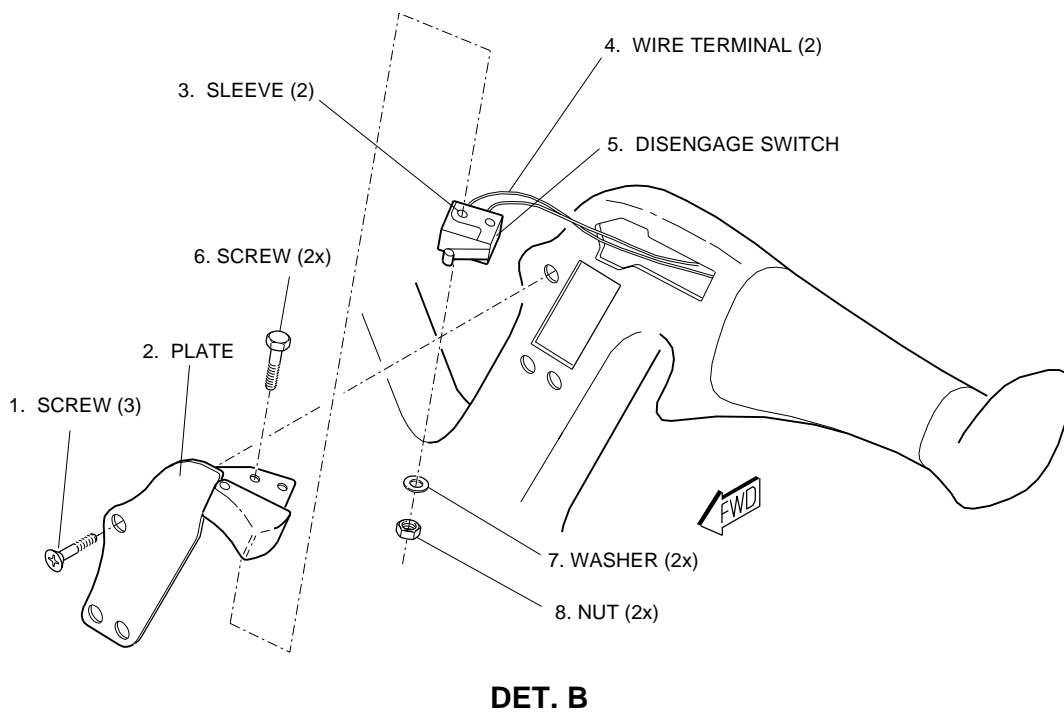
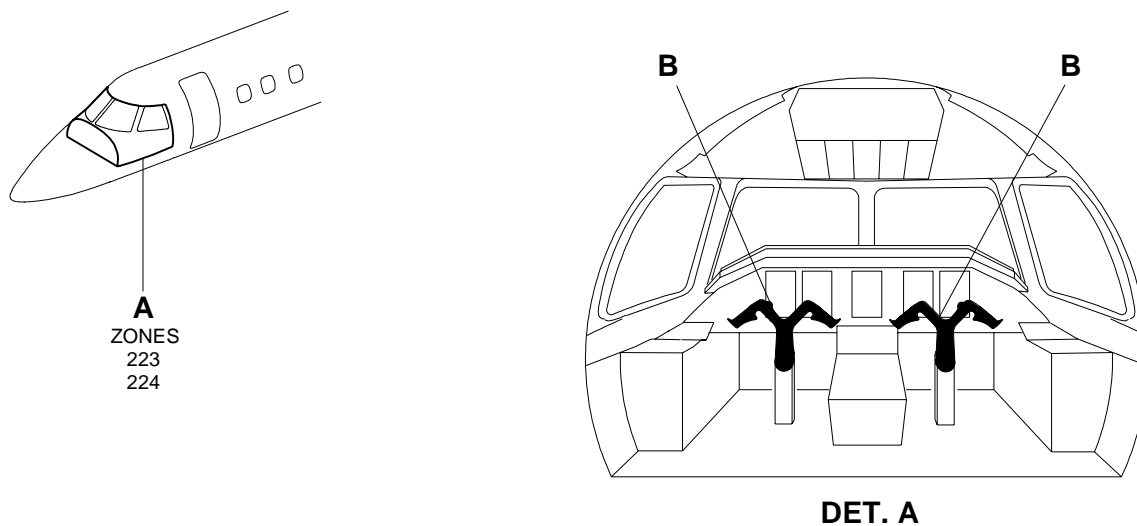
- (1) Remove the screws (1) and plate (2).
- (2) Remove the nuts (8), washers (7) and screws (6) that attach the disengage switch (5) to the plate (2).
- (3) Carefully cut and discard the heat-shrinkable sleeves (3) from the wire terminals (4).

- CAUTION: • IDENTIFY THE WIRE TERMINALS (4) TO PREVENT A POSSIBLE INVERSION DURING THE INSTALLATION.
- REMOVE THE SOLDER AND RELEASE THE WIRE TERMINALS (4) FROM THE SOLDERED LOAD POTENTIOMETER CONTACTS.
- (4) Remove the disengage switch (5) from the control column.

EFFECTIVITY: ALL

Disengage Switch - Removal/Installation

Figure 401



EM145AMM320275B.DGN

TASK 32-50-08-400-801-A
EFFECTIVITY: ALL

3. DISENGAGE SWITCH - INSTALLATION

A. General

(1) This task gives the procedures to install the disengage switch.

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223	223	Cockpit, LH side
224	224	Cockpit, RH side

C. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Soldering iron (30 W)	To solder the wires	
Commercially available	Heat gun	To install the heat-shrinkable sleeves	

D. Auxiliary Items

Not Applicable

E. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
SB60PB40	Soldering wire	AR
Commercially available	Heat-shrinkable sleeves	AR
221	Loctite Adhesive	AR

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	In the cockpit

H. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the heat-shrinkable sleeves onto the wire terminals and move them away from the end to be soldered.
- (2) Solder the wire terminals on the disengage switch contacts.

- (3) Move the heat-shrinkable sleeves on the soldered connection and tighten the sleeves with a heat gun.
- (4) Put the disengage switch (5) in its installation position on the plate (2).
- (5) Apply a minimum quantity of adhesive LOCTITE 221 on the threads of the screws (6).
- (6) Install the screws (6), washers (7) and nuts (8) to attach the disengage switch (5) to the plate (2).
- (7) Put the disengage switch on the control column.
- (8) Install the plate (2) and screws (1).

I. Follow-on

SUBTASK 842-002-A

- (1) On the circuit breaker panel, close the STEER circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (2) Do a check:
 - (a) Make sure that the STEER INOP message does not come into view.
- (b) Operate the disengage switch.

Result:

- 1 Make sure that the STEER INOP message, on the EICAS, comes into view.

NOTE: Push the steering handle again to reset the system and cause the message to go out of view.