

EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

DEPLOY MICROSWITCH STRIKER - REMOVAL/INSTALLATION

EFFECTIVITY: AIRCRAFT POST-MOD SB 145-78-0032

1. General

- A. This section gives the procedures to remove and install the deploy switch strikers.
- B. These procedures are applicable to the LH and RH thrust reversers.
- 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
78-34-03-000-801-A	DEPLOY MICROSWITCH STRIKER - REMOVAL	AIRCRAFT POST-MOD SB 145-78-0032
78-34-03-400-801-A	DEPLOY MICROSWITCH STRIKER - INSTALLATION	AIRCRAFT POST-MOD SB 145-78-0032



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TASK 78-34-03-000-801-A

EFFECTIVITY: AIRCRAFT POST-MOD SB 145-78-0032

2. DEPLOY MICROSWITCH STRIKER - REMOVAL

A. General

- (1) Obey these instructions to remove the deploy switch striker.
- (2) The Part Number of the striker for the upper door is P/N 145-79266-001 and for the lower door is P/N 145-79266-002.
- (3) For Switch Strikers P/N 145-78378-401 and P/N 145-78378-402, do [AMM TASK 78-31-06-000-801-A/400](#).

B. References

REFERENCE	DESIGNATION
AMM MPP 06-43-00/100	- COMPONENT LOCATION
AMM MPP 78-30-00/200	- MAINTENANCE PRACTICES
AMM TASK 78-31-01-940-801-A/200	THRUST REVERSER - OPENING PROCEDURE
AMM TASK 78-31-01-980-802-A/200	LOCK/UNLOCK THE TR EXHAUST DOOR - DEPLOYED POSITION
AMM TASK 78-31-06-000-801-A/400	PIVOT DOOR BEARING- REMOVAL
AMM TASK 78-33-01-980-801-A/200	ISOLATION CONTROL UNIT - INHIBITION PROCEDURES

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
416	416VZ	LH Thrust reverser, left side
416	416WZ	LH Thrust reverser, left side
416	416SL	LH Thrust reverser, left side
416	416UL	LH Thrust reverser, left side
426	426VZ	RH Thrust reverser, left side
426	426WZ	RH Thrust reverser, left side
426	426SL	RH Thrust reverser, left side
426	426UL	RH Thrust reverser, left side

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the engine nacelle	

E. Auxiliary Items

Not Applicable



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F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
RTV106	Sealant	AR
PR1791B	Sealant	AR
ASTM-D-740	Methyl Ethyl Ketone (MEK)	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Thrust reverser

I. Preparation

SUBTASK 841-002-A

WARNING: REFER TO THE GROUND SAFETY PRECAUTIONS GIVEN IN AMM MPP 78-30-00/200 WHEN YOU DO THE THRUST REVERSER MAINTENANCE PROCEDURES.

CAUTION: MAKE SURE THAT ALL THE HYDRAULIC LINES ARE CONNECTED NOT TO PERMIT THE HYDRAULIC OIL TO FALL OUT.

- (1) Put the workstand under the engine thrust reverser.
- (2) Open the thrust-reverser doors ([AMM TASK 78-31-01-940-801-A/200](#)).
- (3) On the CB panel, open these circuit breakers and attach a DO-NOT-CLOSE tag to them:
 - THRUST REVERSER 1/2.
 - HYD. ELEC. PUMP 1/2.
- (4) Put a DO-NOT-OPERATE-THE-THRUST-REVERSERS sign on the instrument panel, in the cockpit.
- (5) Inhibit the ICU ([AMM TASK 78-33-01-980-801-A/200](#)).

CAUTION: DAMAGE TO THE PIVOT DOOR ACTUATOR ROD CAN DAMAGE THE ACTUATOR SEALS. THIS WILL RESULT IN LEAKAGE OF HYDRAULIC FLUID FROM THE ACTUATOR. TAKE CARE NOT TO DAMAGE THE ACTUATOR ROD WHEN YOU REMOVE THE HOLD-OPEN STAY AND WHEN YOU USE MAINTENANCE TOOLS NEAR THE PIVOT DOOR ACTUATOR.

- (6) Install the hold-open stay on the actuator ([AMM TASK 78-31-01-980-802-A/200](#)).
- (7) Remove pivot door bearing access panels 416VZ and 416WZ for the LH thrust reverser or 426VZ and 426WZ for the RH thrust reverser ([AMM MPP 06-43-00/100](#)) to get access to the deploy switch striker. Refer to DET. B of [Figure 401](#).



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

SUBTASK 020-002-A

WARNING: THE RTV106 SEALANT IS A DANGEROUS PRODUCT AND CAN CAUSE IRRITATION TO YOUR EYES, SKIN, AND THROAT. MAKE SURE THERE IS A FLOW OF AIR WHERE YOU WILL WORK. YOU MUST WEAR GOGGLES, GLOVES, AND BREATHING MASK. IF YOU GET THE RTV106 SEALANT ON YOUR SKIN, YOU MUST WASH IT OFF IMMEDIATELY. IF YOU GET THE RTV106 SEALANT IN YOUR EYES OR IN YOUR MOUTH, WASH IT OUT WITH CLEAN WATER AND GET MEDICAL HELP.

- (1) Remove the RTV106 sealant from the base of the striker.

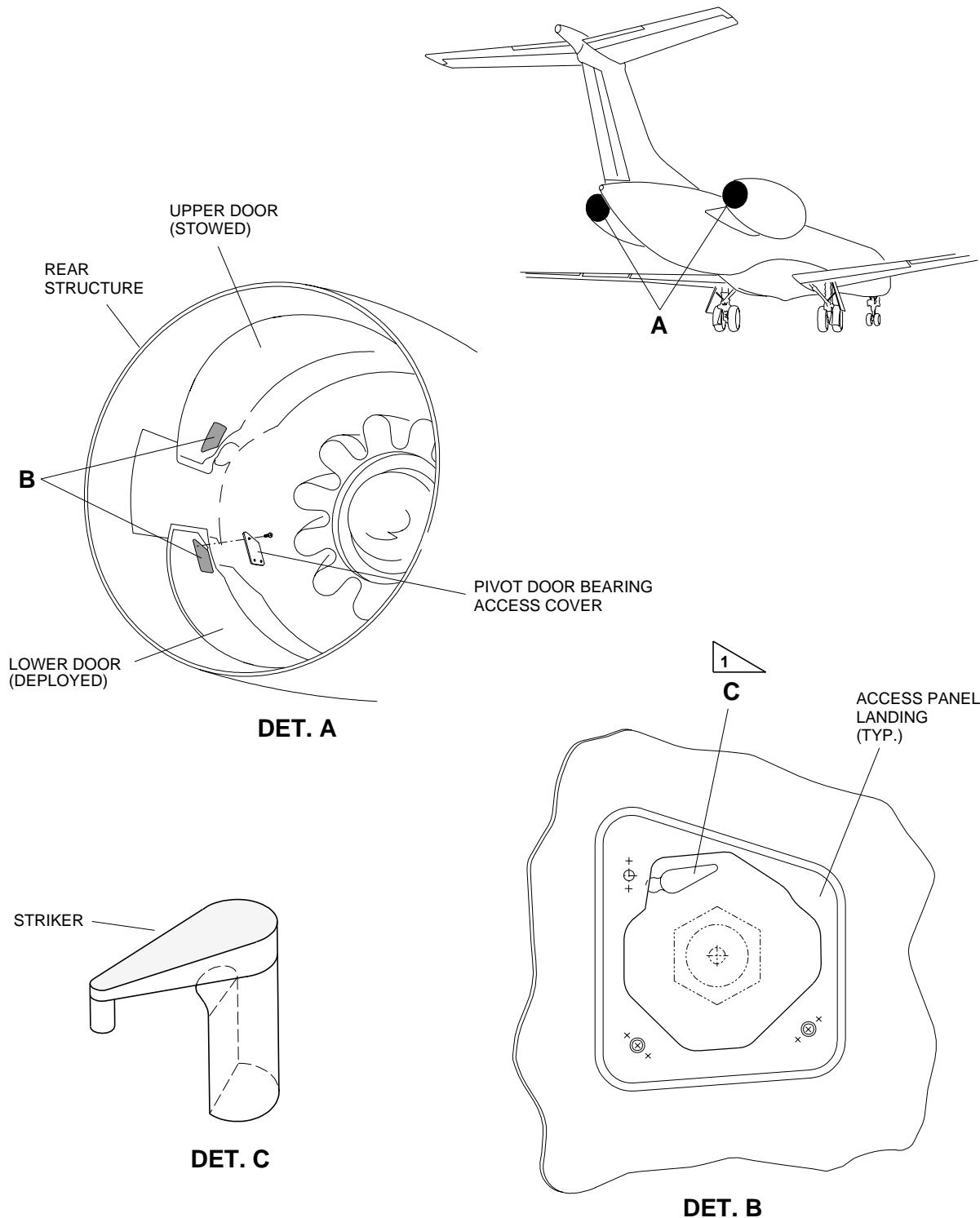
WARNING: THE PR1791B SEALANT IS DANGEROUS AND CAN CAUSE IRRITATION TO YOUR EYES, SKIN, AND THROAT. MAKE SURE THERE IS A FLOW OF AIR WHERE YOU WILL WORK. YOU MUST WEAR GOGGLES, GLOVES, AND A BREATHING MASK. IF YOU GET THE PR1791B SEALANT ON YOUR SKIN, YOU MUST WASH IT OFF IMMEDIATELY. IF YOU GET THE PR1791B SEALANT IN YOUR EYES OR IN YOUR MOUTH, WASH IT OUT WITH CLEAN WATER AND GET MEDICAL HELP.

- (2) Apply the PR1791B sealant to the door, in the area where access panels 416VZ, 416WZ, 426VZ or 426WZ will be. Wait for the sealant to dry.
- (3) Pull the striker to remove it. Refer to DET. C of [Figure 401](#).

EFFECTIVITY: AIRCRAFT POST-MOD SB 145-78-0032

Deploy Microswitch Striker - Removal/Installation

Figure 401



APPLY THE SEALANT (PN RTV106) ON THIS FACE

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TASK 78-34-03-400-801-A

EFFECTIVITY: AIRCRAFT POST-MOD SB 145-78-0032

3. DEPLOY MICROSWITCH STRIKER - INSTALLATION

A. General

- (1) Obey these instructions to install the deploy switch striker.

B. References

REFERENCE	DESIGNATION
AMM MPP 20-30-04/200	- MAINTENANCE PRACTICES
AMM MPP 78-30-00/200	- MAINTENANCE PRACTICES
AMM TASK 78-31-01-700-801-A/500	THRUST REVERSER - OPERATIONAL CHECK
AMM TASK 78-31-01-940-802-A/200	THRUST REVERSER - CLOSURE PROCEDURE
AMM TASK 78-33-01-980-801-A/200	ISOLATION CONTROL UNIT - INHIBITION PROCEDURES

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
416	416VZ	LH Thrust reverser, left side
416	416WZ	LH Thrust reverser, left side
426	426VZ	RH Thrust reverser, left side
426	426WZ	RH Thrust reverser, left side

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the engine nacelle	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
RTV106	Sealant	AR
PR1791B	Sealant	AR
Freekote 700 or equivalent	Mold release agent	AR
ASTM-D-740	Methyl Ethyl Ketone (MEK)	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Thrust reverser

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

WARNING: REFER TO THE GROUND SAFETY PRECAUTIONS GIVEN IN [AMM MPP 78-30-00/200](#) WHEN YOU DO THE THRUST REVERSER MAINTENANCE PROCEDURES.

WARNING: METHYL-ETHYL-KETONE (MEK) IS IRRITANT AND HIGHLY FLAMMABLE. THIS CHEMICAL PRODUCT CAN CAUSE INJURIES. TO USE IT, OBEY THE MANUFACTURER'S INSTRUCTIONS.

- (1) Clean the related area with a clean cloth wet with Methyl-Ethyl-Ketone (MEK) or similar (refer to [AMM MPP 20-30-04/200](#)). Make sure that the surface where you will install the striker is clean, dry, and has no oil or grease.

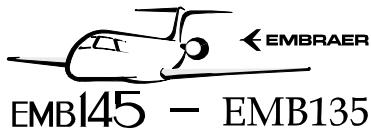
CAUTION: TO PREVENT DAMAGE TO THE DEPLOY SWITCH ARM WHEN THE DOOR IS STOWED BACK, FIRST LIGHTLY MOVE THE DOOR IN THE STOWED POSITION DIRECTION TO MAKE SURE THAT THE STRIKER IS NOT PAST THE SWITCH ACTUATION POINT.

- (2) Push the striker into the holes. Use striker P/N 145-79266-001 for the upper door or P/N 145-79266-002 for the lower door, as applicable. Refer to (Figure 401).
- (3) Remove all the unwanted metal particles from the area.

WARNING: THE RTV106 SEALANT IS DANGEROUS AND CAN CAUSE IRRITATION TO YOUR EYES, SKIN, AND THROAT. MAKE SURE THERE IS A FLOW OF AIR WHERE YOU WILL WORK. YOU MUST WEAR GOGGLES, GLOVES, AND A BREATHING MASK. IF YOU GET THE RTV106 SEALANT ON YOUR SKIN, YOU MUST WASH IT OFF IMMEDIATELY. IF YOU GET THE RTV106 SEALANT IN YOUR EYES OR IN YOUR MOUTH, WASH IT OUT WITH CLEAN WATER AND GET MEDICAL HELP.

CAUTION: YOU MUST DO THE SUBSEQUENT STEPS AT THE SAME TIME. YOU MUST BE ABLE TO INSTALL THE PANEL ACCESS COVER (416VZ, 416 WZ, 426VZ OR 426WZ, AS APPLICABLE) WHILE THE RTV106 SEALANT ON THE STRIKER IS SOFT. IF THE RTV106 SEALANT ON THE SURFACE GOES HARD, YOU MUST REMOVE THE SEALANT FROM THE SURFACE OF THE STRIKER AND APPLY IT AGAIN.

- (4) Apply a coat of sealant RTV106, or equivalent, around the base of the striker and, if applicable, also fill the unused holes with sealant. Make sure the sealant does not go to the pivoting surface.
- (5) Apply the Freekote 700 mold release agent to the access panel (416VZ, 416WZ, 426VZ or 426WZ as applicable), where the panel will touch the panel landing. Let the mould release agent dry.



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- (6) If there is no sealant on the access panel landing, apply sealant PR1791B in the area that will touch the access panel.
- (7) Apply the Freekote 700 mold release agent to the inside of the access cover in the area where the flat striker surface will be against the cover. Let the mold release agent dry.
- (8) Apply a 5.00 mm (0.20") coat of sealant RTV 106 to the flat surface of the striker. Refer to DET. C of (Figure 401).
- (9) Install the access cover while the sealant is soft and remove the unwanted sealant.

J. Follow-on

SUBTASK 842-002-A

CAUTION: EXAMINE ALL THE WORK ZONES TO MAKE SURE THAT YOU DID NOT LET TOOLS OR OTHER EQUIPMENT STAY BEHIND.

CAUTION: DAMAGE TO THE PIVOT DOOR ACTUATOR ROD CAN DAMAGE THE ACTUATOR SEALS. THIS WILL RESULT IN LEAKAGE OF HYDRAULIC FLUID FROM THE ACTUATOR. TAKE CARE NOT TO DAMAGE THE ACTUATOR ROD WHEN YOU REMOVE THE HOLD-OPEN STAY AND WHEN YOU USE MAINTENANCE TOOLS NEAR THE PIVOT DOOR ACTUATOR.

- (1) Remove the hold-open stay from the actuator and install it to the torsion box firewall.
- (2) Deinhibit the ICU ([AMM TASK 78-33-01-980-801-A/200](#)).
- (3) On the circuit breaker panel, close these circuit breakers and remove the DO-NOT-CLOSE tag from them:
 - THRUST REVERSER 1/2.
 - HYD. ELEC. PUMP 1/2.
- (4) Remove the DO-NOT-OPERATE-THE-THRUST-REVERSERS sign from the instrument panel, in the cockpit.

WARNING: BE CAREFUL WHEN YOU OPERATE THE THRUST REVERSERS. MAKE SURE THAT THE THRUST REVERSERS ARE CLEAR. INJURY TO PERSONS AND/OR DAMAGE TO EQUIPMENT CAN OCCUR.

- (5) Close the thrust-reverser doors ([AMM TASK 78-31-01-940-802-A/200](#)).
- (6) Remove the workstand from the work area.
- (7) Do the engine thrust reverser operational check ([AMM TASK 78-31-01-700-801-A/500](#)).