



AIRCRAFT MAINTENANCE MANUAL

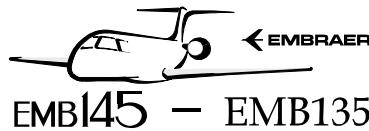
PACK LEAK SWITCH - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the pack leak switch.
- B. There is one pack leak switch installed near each pack valve.
- 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
21-51-10-000-801-A	PACK LEAK SWITCH - REMOVAL	ALL
21-51-10-400-801-A	PACK LEAK SWITCH - INSTALLATION	ALL



EMB145 – EMB135

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TASK 21-51-10-000-801-A

EFFECTIVITY: ALL

2. PACK LEAK SWITCH - REMOVAL

A. General

- (1) This task gives the procedures to remove the pack leak switch.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191EL	Left side of the wing-to-fuselage fairing
191	191FR	Right side of the wing-to-fuselage fairing

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Soldering Iron - 30 W	To disconnect electrical terminals	

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	Forward wing-to-fuselage fairing

I. Preparation

SUBTASK 841-002-A

- (1) On the overhead Circuit Breaker Panel, open the applicable circuit breaker(s) shown below and attach (a) DO-NOT-CLOSE tag(s) to it (them):
 - PACK 1 (Location tip: DC BUS1/AIR COND/PNEU/PACK 1).
 - PACK 2 (Location tip: DC BUS2/AIR COND/PNEU/PACK 2).
- (2) Remove the access panel (AMM MPP 06-41-01/100) as applicable:
 - 191EL (Leak switch of the LH cooling pack).



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- 191FR (Leak switch of the RH cooling pack).

J. Removal ([Figure 401](#)) ([Figure 402](#))

SUBTASK 020-002-A

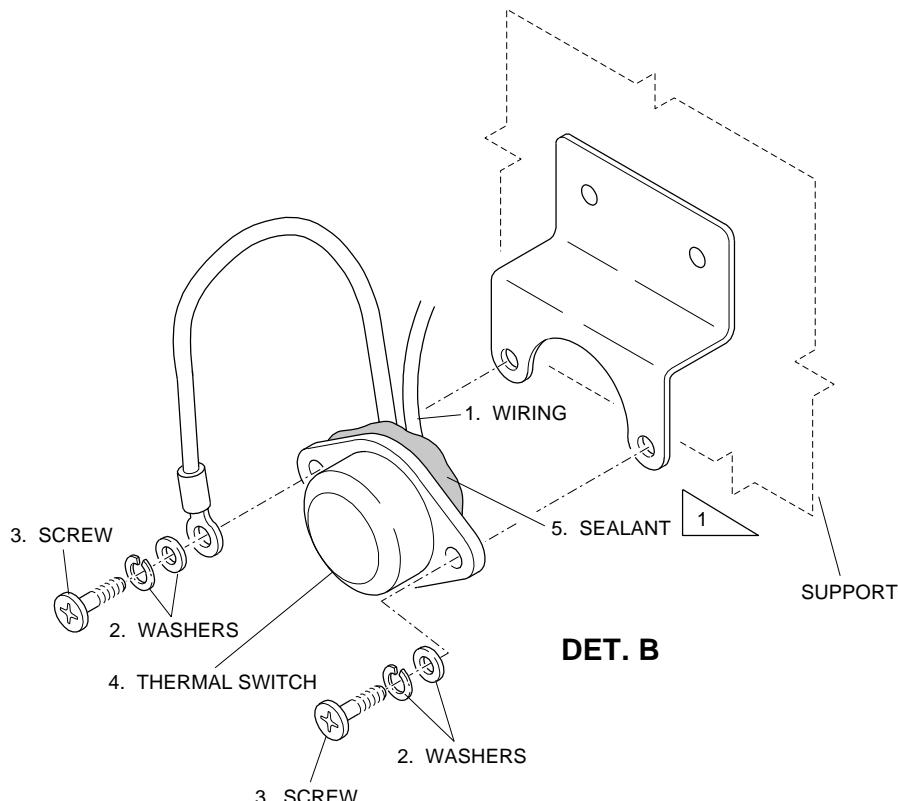
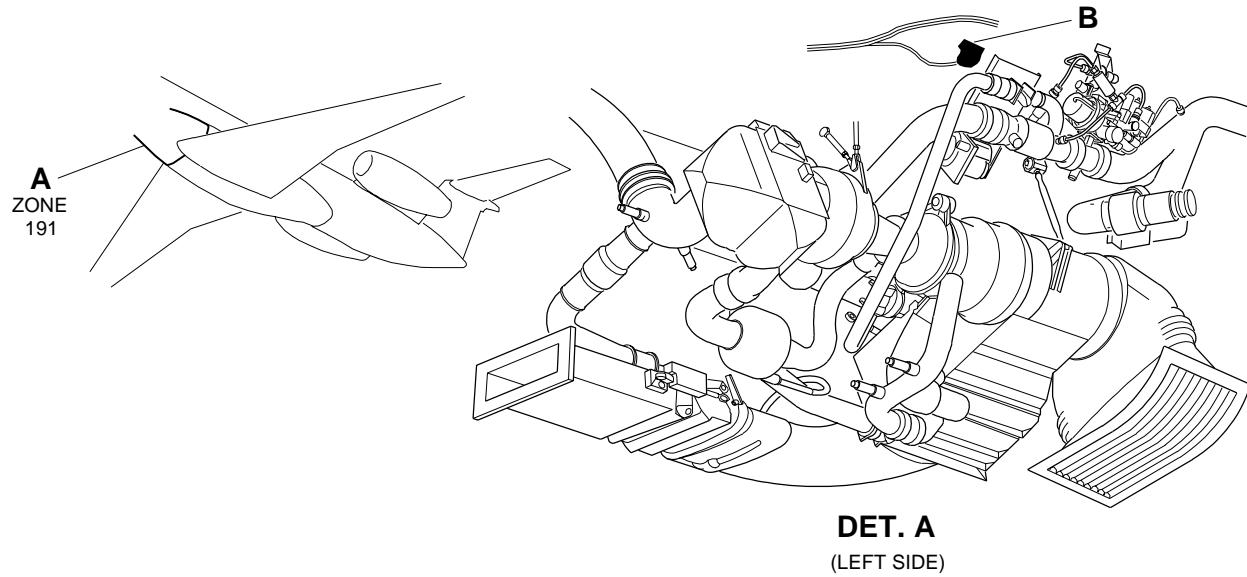
WARNING: DO NOT TOUCH THE COOLING PACK SYSTEM OR ITS COMPONENTS IMMEDIATELY AFTER THEIR STOP BECAUSE OF THEIR HIGH OR LOW TEMPERATURES.

- (1) For thermal switch P/N M1-195-xxxxxx, do as follow; refer to ([Figure 401](#)), DET. B:
 - (a) Release the screws (3) and the washers (2).
 - (b) Remove the sealant (5).
 - (c) Disconnect the electric wire (1) with a soldering iron.
 - (d) Remove the thermal switch (4).
- (2) For thermal switch P/N 11041-xxxx, do as follow; refer to ([Figure 402](#)), DET. B:
 - (a) Release the screws (6) and washers (5).
 - (b) Cut the electric wire (1) near the splice (2) to disconnect it from the electric wire (3).
 - (c) Cut the electric wire (8) near the splice (9) to disconnect it from the electric wire (10).
 - (d) Remove the thermal switch (7).

EFFECTIVITY: FOR THERMAL SWITCH P/N M1-195-xxxxxx

Pack Leak Switch - Removal/Installation

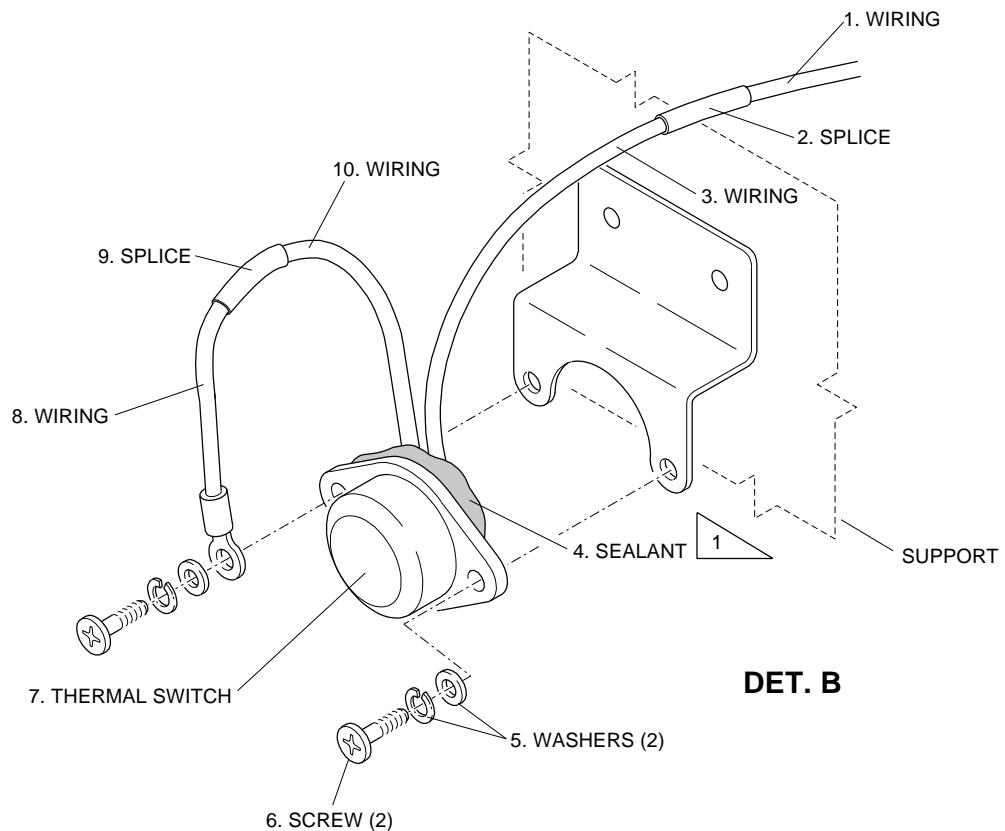
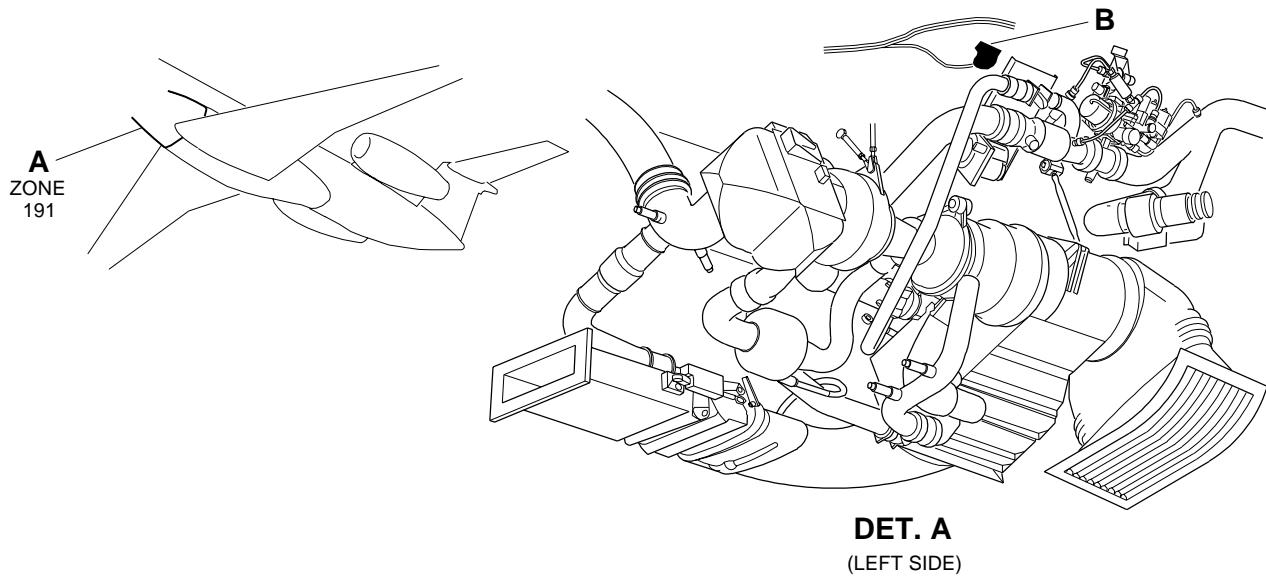
Figure 401



1 APPLY SEALANT RTV780. REFER TO SRM 51-20-01.
FOR ALTERNATIVE SEALANTS, REFER TO AMM 20-30-03/201.

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EFFECTIVITY: FOR THERMAL SWITCH P/N 11041-xxxx
Pack Leak Switch - Removal/Installation
Figure 402



 APPLY SEALANT RTV780. REFER TO SRM 51-20-01.
 FOR ALTERNATIVE SEALANTS, REFER TO AMM 20-30-03/201.

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TASK 21-51-10-400-801-A

EFFECTIVITY: ALL

3. PACK LEAK SWITCH - INSTALLATION

A. General

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

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 21-51-10-700-801-A/500	PACK LEAK SWITCH - OPERATIONAL CHECK
WM 20-21-00/2	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191EL	Left side of the wing-to-fuselage fairing
191	191FR	Right side of the wing-to-fuselage fairing

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Soldering Iron - 30 W	To connect electrical terminals	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
ASTM C-920	Sealant	AR
MIL-S-81824	Splice	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Forward wing-to-fuselage fairing

I. Installation (Figure 401) (Figure 402)

SUBTASK 420-002-A

(1) For thermal switch P/N M1-195-xxxxxx, do as follow; refer to (Figure 401), DET. B:

- (a) Connect the electric wire (1), with a soldering iron.
 - (b) Apply sealant (5) over the electric terminals.
 - (c) Install the thermal switch (4) with the screws (3) and washers (2).
- (2) For thermal switch P/N 11041-xxxx, do as follow; refer to (Figure 402), DET. B:
- (a) Connect the electric wire (1) to the electric wire (3) with a splice (2) (WM 20-21-00/2).
NOTE: Cut the electric wire (3) to the correct length.
 - (b) Connect the electric wire (8) to the electric wire (10) with a splice (9) (WM 20-21-00/2).
NOTE: Cut the electric wire (10) to the correct length.
 - (c) Apply sealant (4) to the electric terminals.
 - (d) Install the thermal switch (7) and tighten the screws (6) and washers (5).

J. Follow-on

SUBTASK 842-002-A

- (1) On the overhead Circuit Breaker Panel, close the applicable circuit breaker(s) below and remove the DO-NOT-CLOSE tag(s) from it (them):
 - PACK 1 (Location tip: DC BUS1/AIR COND/PNEU/PACK 1).
 - PACK 2 (Location tip: DC BUS2/AIR COND/PNEU/PACK 2).
- (2) Do the Pack Leak Switch - Operational Check ([AMM TASK 21-51-10-700-801-A/500](#)).
- (3) Install the access panel (AMM MPP 06-41-01/100) as applicable:
 - 191EL (Leak switch of the LH cooling pack).
 - 191FR (Leak switch of the RH cooling pack).

