



AIRCRAFT
MAINTENANCE MANUAL

OIL FILTER IMPENDING BY-PASS SWITCH - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures for removal/installation and deactivation/reactivation of the oil-filter impending by-pass 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
79-37-01-000-801-A	OIL-FILTER IMPENDING BY-PASS SWITCH - REMOVAL	ALL
79-37-01-400-801-A	OIL-FILTER IMPENDING BY-PASS SWITCH - INSTALLATION	ALL
79-37-01-040-801-A	OIL-FILTER IMPENDING BY-PASS SWITCH - DEACTIVATION	ALL
79-37-01-440-801-A	OIL-FILTER IMPENDING BY-PASS SWITCH - REACTIVATION	ALL



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 79-37-01-000-801-A

EFFECTIVITY: ALL

2. OIL-FILTER IMPENDING BY-PASS SWITCH - REMOVAL

A. General

- (1) To remove the oil-filter impending by-pass switch, obey the instructions in Rolls-Royce MM CSP 34022.

B. References

REFERENCE	DESIGNATION
AMM MPP 71-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 71-12-01-000-801-A/400	ENGINE LOWER COWLING - OPENING
Rolls-Royce MM CSP 34022 Task 79-37-15-000-801	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
413	Lower Cowling	LH Engine
423	Lower Cowling	RH Engine

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the engine	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Engine

I. Preparation

SUBTASK 841-002-A

WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 71-00-00/200 TO PREVENT INJURY TO THE PERSONS AND DAMAGE TO THE MATERIAL.



AIRCRAFT MAINTENANCE MANUAL

- (1) On the circuit breaker panel, open these circuit breakers and attach a DO-NOT-CLOSE tag to them.
 - START 1/2.
- (2) Put the workstand in the work area.
- (3) Open the lower cowling ([AMM TASK 71-12-01-000-801-A/400](#)).

J. Removal

SUBTASK 020-002-A

- (1) Remove the oil-filter impending by-pass switch. Refer to the latest revision of Rolls-Royce MM CSP 34022 Task 79-37-15-000-801.



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 79-37-01-400-801-A

EFFECTIVITY: ALL

3. OIL-FILTER IMPENDING BY-PASS SWITCH - INSTALLATION

A. General

- (1) To install the oil-filter impending by-pass switch, obey the instructions in Rolls-Royce MM CSP 34022.

B. References

REFERENCE	DESIGNATION
AMM TASK 71-12-01-400-801-A/400	ENGINE LOWER COWLING - CLOSING
Rolls-Royce MM CSP 34022 Task 79-37-15-400-801	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
413	Lower Cowling	LH Engine
423	Lower Cowling	RH Engine

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the engine	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Engine

I. Installation

SUBTASK 420-002-A

- (1) Install the oil-filter impending by-pass switch. Refer to the latest revision of Rolls-Royce MM CSP 34022 Task 79-37-15-400-801.



AIRCRAFT
MAINTENANCE MANUAL

J. Follow-on

SUBTASK 842-002-A

- (1) Close the lower cowling ([AMM TASK 71-12-01-400-801-A/400](#)).
- (2) Remove the workstand.
- (3) On the circuit breaker panel, close these circuit breakers and remove the DO-NOT-CLOSE tag from them.
 - START 1/2.



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 79-37-01-040-801-A

EFFECTIVITY: ALL

4. OIL-FILTER IMPENDING BY-PASS SWITCH - DEACTIVATION

A. General

- (1) This procedure is applicable to the left and right engines.
- (2) This procedure refers to item 79-35-01 - E1 (2) OIL IMP BYP MESSAGES of the DDPM.
- (3) It is permitted to operate the aircraft with one oil-filter impending by-pass switch inoperative if you make sure at each flight day that there is no extended indicator and, before each flight, that the ENG OIL DEBRIS maintenance message does not show on the CMC.

B. References

REFERENCE	DESIGNATION
AMM MPP 71-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 45-45-00-970-801-A/200	CMC DOWNLOADING WITH THE MFD
AMM TASK 71-12-01-000-801-A/400	ENGINE LOWER COWLING - OPENING
AMM TASK 71-12-01-400-801-A/400	ENGINE LOWER COWLING - CLOSING

C. Zones and Accesses

Not Applicable

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 and engine

I. Deactivation

SUBTASK 040-002-A

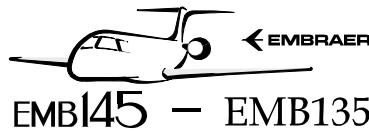
WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 71-00-00/200 TO PREVENT INJURY TO THE PERSONS AND DAMAGE TO THE MATERIAL.

- (1) On the circuit breaker panel, open these circuit breakers and attach a DO-NOT-CLOSE tag to them:



AIRCRAFT
MAINTENANCE MANUAL

- START 1/2.
- (2) Put the workstand in the work area.
- (3) Open the lower cowling ([AMM TASK 71-12-01-000-801-A/400](#)) to get access to the engine.
- (4) Make sure that the visual indicators of the oil system are not extended.
- (5) Close the lower cowling ([AMM TASK 71-12-01-400-801-A/400](#)).
- (6) Remove the workstand from the work area.
- (7) On the circuit breaker panel, close these circuit breakers and remove the DO-NOT-CLOSE tag from them:
 - START 1/2.
- (8) Download the CMC with the MFD maintenance page ([AMM TASK 45-45-00-970-801-A/200](#)).



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 79-37-01-440-801-A

EFFECTIVITY: ALL

5. OIL-FILTER IMPENDING BY-PASS SWITCH - REACTIVATION

A. General

- (1) This procedure is applicable to the left and right engines.
- (2) This procedure refers to item 79-35-01 - E1 (2) OIL IMP BYP MESSAGES of the DDPM.

B. References

REFERENCE	DESIGNATION
AMM MPP 71-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 71-12-01-000-801-A/400	ENGINE LOWER COWLING - OPENING
AMM TASK 71-12-01-400-801-A/400	ENGINE LOWER COWLING - CLOSING
Rolls-Royce MM CSP 34022 Task 79-37-15-700-801	-
WM 79-30-50	-
WM 79-30-51	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
413	Lower Cowling	LH Engine
423	Lower Cowling	RH Engine

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the engine	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Cockpit and engine

I. Reactivation

SUBTASK 440-002-A

WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 71-00-00/200 TO PREVENT INJURY TO THE PERSONS AND DAMAGE TO THE MATERIAL.

- (1) On the circuit breaker panel, open these circuit breakers and attach a DO-NOT-CLOSE tag to them:
 - START 1/2.
- (2) Put the workstand in the work area.
- (3) Open the lower cowling ([AMM TASK 71-12-01-000-801-A/400](#)) to get access to the engine.
- (4) For the engine 1 (left nacelle), do a check for continuity between these pins (WM 79-30-50):
 - Pin B of connector P6 and pin Y of connector P1
 - Pin A of connector P6 and pin X of connector P1
 - Pin X of connector 1J0822 and pin A-48 of connector J1018
 - Pin Y of connector 1J0822 and ground
- (5) For the engine 2 (right nacelle), do a check for continuity between these pins (WM 79-30-51):
 - Pin B of connector P6 and pin Y of connector P1
 - Pin A of connector P6 and pin X of connector P1
 - Pin X of connector 2J0822 and pin A-49 of connector J1018
 - Pin Y of connector 2J0822 and ground
- (6) Do the test of the oil-filter impending by-pass switch. Refer to the latest revision of Rolls-Royce MM CSP 34022 Task 79-37-15-700-801.
- (7) Close the lower cowling ([AMM TASK 71-12-01-400-801-A/400](#)).
- (8) Remove the workstand from the work area.
- (9) On the circuit breaker panel, close these circuit breakers and remove the DO-NOT-CLOSE tag from them:
 - START 1/2.

