



AIRCRAFT MAINTENANCE MANUAL

FUEL FILTER IMPEDING BY-PASS SWITCH - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures for removal/installation and deactivation/reactivation of the fuel-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
73-33-01-000-801-A	FUEL-FILTER IMPENDING BY-PASS SWITCH - REMOVAL	ALL
73-33-01-400-801-A	FUEL-FILTER IMPENDING BY-PASS SWITCH - INSTALLATION	ALL
73-33-01-040-801-A	FUEL-FILTER IMPENDING BY-PASS SWITCH - DEACTIVATION	ALL
73-33-01-440-801-A	FUEL-FILTER IMPENDING BY-PASS SWITCH - REACTIVATION	ALL



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TASK 73-33-01-000-801-A

EFFECTIVITY: ALL

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

A. General

- (1) To do the removal procedure, obey the instructions contained in Rolls-Royce MM CSP 34022.
- (2) This procedure is applicable to the left and right engines.

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 73-37-10-000-801	-

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.



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- (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.

J. Removal

SUBTASK 020-002-A

- (1) Remove the fuel filter impending by-pass switch. Refer to the latest revision of Rolls-Royce MM CSP 34022 Task 73-37-10-000-801.



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TASK 73-33-01-400-801-A

EFFECTIVITY: ALL

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

A. General

- (1) To do the installation procedure, obey the instructions contained in Rolls-Royce MM CSP 34022.
- (2) This procedure is applicable to the left and right engines.

B. References

REFERENCE	DESIGNATION
AMM MPP 71-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 71-12-01-400-801-A/400	ENGINE LOWER COWLING - CLOSING
Rolls-Royce MM CSP 34022 Task 73-37-10-400-801	-

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

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.



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- (1) Install the fuel filter impending by-pass switch. Refer to the latest revision of Rolls-Royce MM CSP 34022 Task 73-37-10-400-801.

J. Follow-on

SUBTASK 842-002-A

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



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TASK 73-33-01-040-801-A

EFFECTIVITY: ALL

4. FUEL-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 73-33-01 - E1 (or E2) FUEL IMP BYP ADVISORY MESSAGE of the DDPM.
- (3) It is permitted to operate the aircraft with the E1(2) FUEL IMP BYP advisory message inoperative if:
 - (a) Related-engine fuel-temperature sensor operates normally;
 - (b) You make sure that the malfunction is in the fuel impending by-pass switch or its wiring;
 - (c) At maximum intervals of 10 flight hours, you make sure that the fuel filter impending by-pass switch indicator is not extended; and
 - (d) At maximum intervals of 10 flight hours, you make sure that the fuel filter actual by-pass indicator is not extended.

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

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



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G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Cockpit and engine

I. Deactivation Procedure

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:
 - 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 pop-up indicators of the impending by-pass switch and actual by-pass visual indicator 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) Install the "E1 (or E2) FUEL IMP BYP MESSAGE INOP" placard to the EICAS bezel.



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TASK 73-33-01-440-801-A

EFFECTIVITY: ALL

5. FUEL-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 73-33-01 - E1 (or E2) FUEL IMP BYP ADVISORY MESSAGE 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
AMM TASK 73-21-06-700-801-A/500	FUEL FILTER IMPENDING BYPASS - FUNCTIONAL CHECK

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



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I. Reactivation procedure

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) Make sure that the pop-up indicators of the impending by-pass switch and actual by-pass visual indicator are not extended.
- (5) Do the fuel filter impending by-pass system functional check ([AMM TASK 73-21-06-700-801-A/500](#)).
- (6) Close the lower cowling ([AMM TASK 71-12-01-400-801-A/400](#)).
- (7) Remove the workstand from the work area.
- (8) On the circuit breaker panel, close these circuit breakers and remove the DO-NOT-CLOSE tag from them:
 - START 1/2.
- (9) Remove the "E1 (or E2) FUEL IMP BYP MESSAGE INOP" placard from the EICAS bezel.

