



## AIRCRAFT MAINTENANCE MANUAL

### N2 SPEED SENSOR - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

#### 1. General

- A. This section gives the procedure to remove/install the N2 speed sensor.
- B. These procedures are applicable to the LH and RH engines.
- 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
77-11-01-000-801-A	N2 SPEED SENSOR - REMOVAL	ALL
77-11-01-400-801-A	N2 SPEED SENSOR - INSTALLATION	ALL



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TASK 77-11-01-000-801-A

EFFECTIVITY: ALL

### 2. N2 SPEED SENSOR - REMOVAL

#### A. General

- (1) Each engine has two N2 speed sensors installed on the accessory gearbox.
- (2) To remove the N2 speed sensor, 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

#### 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	Work Stand	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



EMB145 – EMB135

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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.
- BEFORE YOU OPEN THE N2 CIRCUIT BREAKERS AND TO PREVENT INJURY TO PERSONS AND DAMAGE TO THE MATERIAL, MAKE SURE THAT THE SENSORS PITOT 1 - TAT 1/AOA 1, PITOT 3, AND PITOT 2 - TAT 2/AOA 2, ON THE OVERHEAD PANEL, ARE SET TO OFF.

- (1) On the circuit breaker panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them.
  - START 1/2.
  - N2 SIGNAL 1A/2A/1B/2B.
- (2) Put the work stand 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 N2 speed sensor. Refer to the last revision of Rolls-Royce MM CSP 34022.



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TASK 77-11-01-400-801-A

EFFECTIVITY: ALL

## 3. N2 SPEED SENSOR - INSTALLATION

### A. General

- (1) To install the N2 speed sensor, 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

### 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	Work Stand	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 N2 speed sensor. Refer to the last revision of Rolls-Royce MM CSP 34022.

### J. Follow-on

#### SUBTASK 842-002-A

- (1) Close the lower cowling ( [AMM TASK 71-12-01-400-801-A/400](#) ).
- (2) Remove the work stand.



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- (3) On the circuit breaker panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them.
  - START 1/2.
  - N2 SIGNAL 1A/2A/1B/2B.
- (4) Refer to the Rolls-Royce MM CSP 34022 to do the related check procedures after an engine LRU maintenance procedure, as applicable.

