

## ENGINE FIRE DETECTOR - REMOVAL/INSTALLATION

*EFFECTIVITY: ALL*

1. General

- A. This section gives the procedures to remove/install the engine fire detector.
- 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
26-11-01-000-801-A	ENGINE FIRE DETECTOR - REMOVAL	ALL
26-11-01-400-801-A	ENGINE FIRE DETECTOR - INSTALLATION	ALL

TASK 26-11-01-000-801-A

EFFECTIVITY: ALL

## 2. ENGINE FIRE DETECTOR - REMOVAL

### A. General

(1) This task is applicable to the LH and RH engines.

### B. References

REFERENCE	DESIGNATION
<a href="#">AMM MPP 71-00-00/200</a>	- MAINTENANCE PRACTICES
<a href="#">AMM TASK 71-11-01-000-801-A/400</a>	ENGINE UPPER COWLING - REMOVAL

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
412	Upper cowling	LH engine
422	Upper cowling	RH engine
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 PERSONS AND DAMAGE TO MATERIAL.**

- (1) On the circuit breaker panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them.
  - POWERPLANT FIRE DET 1/2.
  - START 1/2.
- (2) Put the workstand in the work area.
- (3) Remove the upper cowling ([AMM TASK 71-11-01-000-801-A/400](#)) to get access to the engine.

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

*SUBTASK 020-002-A*

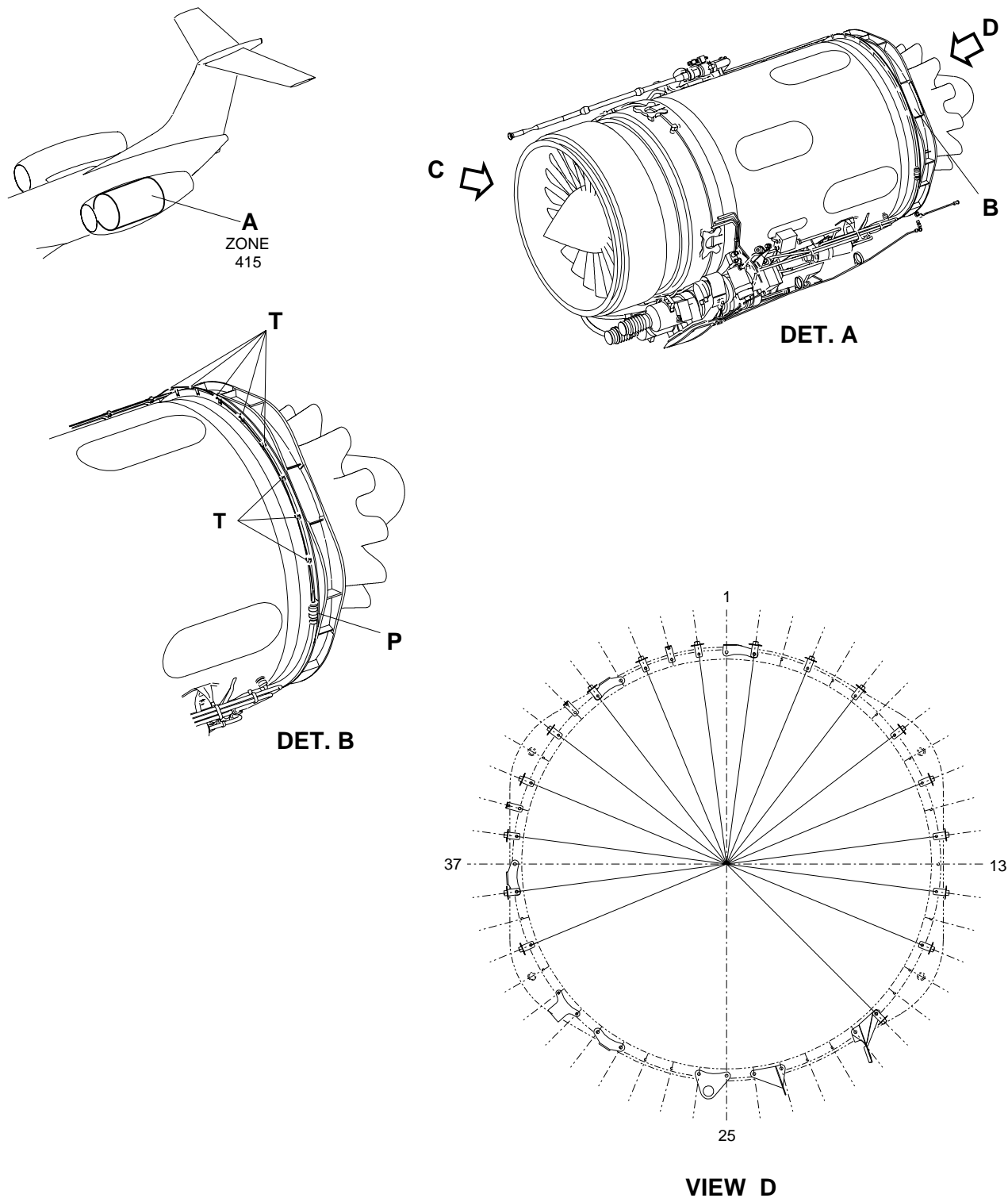
**CAUTION:** DURING THE REMOVAL PROCEDURE, IF THE DETECTOR IS IN CONDITION TO BE USED AGAIN, BE CAREFUL NOT TO CAUSE DAMAGE OR SHARP BENDS TO IT.

- (1) Disconnect the electrical connector (1) from the detector (2).
- (2) Release the Dzus fastener from the sensing element (6).
- (3) Loosen the bolts (3) of the clamps (4) which attach the detector (2) to its support in the engine support (REF.).
- (4) Remove the detector (2) and sensing element (6) from the engine.
- (5) Install protection caps to the disconnected points.

EFFECTIVITY: ALL

Left Engine Fire Detector - Removal/Installation

Figure 401 - Sheet 1

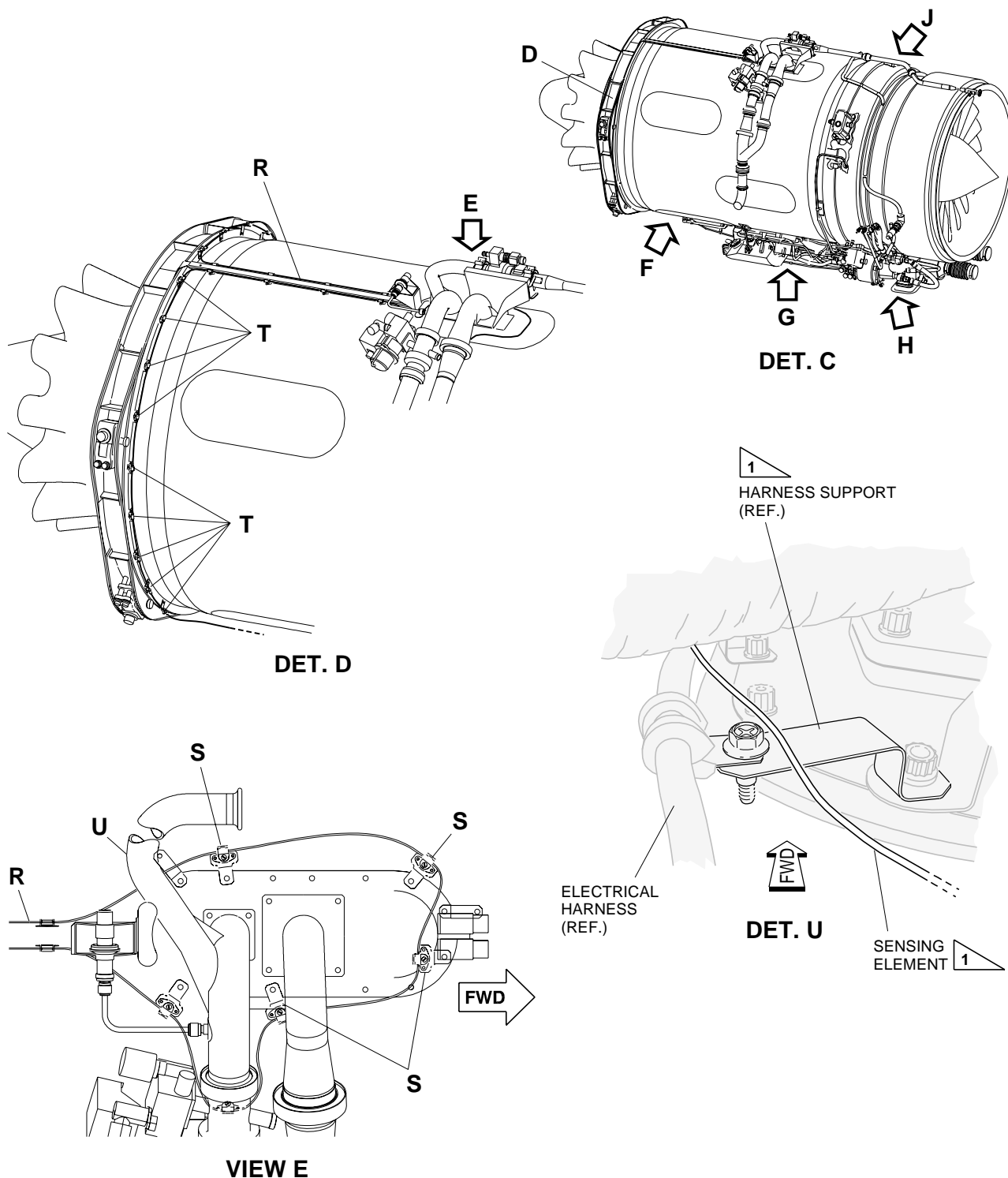


EM145AMM260131D.DGN

EFFECTIVITY: ALL

Left Engine Fire Detector - Removal/Installation

Figure 401 - Sheet 2



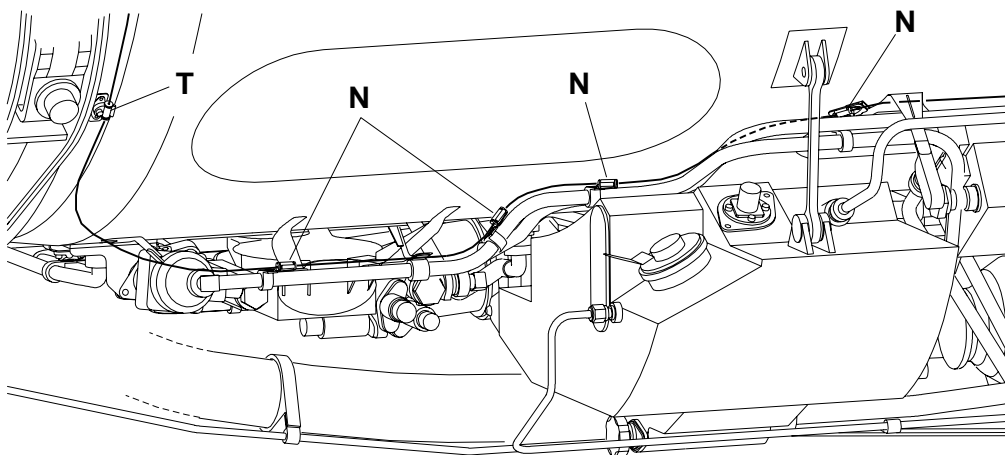
1 THE DETECTOR SENSING ELEMENT MUST PASS OVER (NOT BELOW) THE HARNESS SUPPORT.

EM145AMM260132B.DGN

**EFFECTIVITY: ALL**

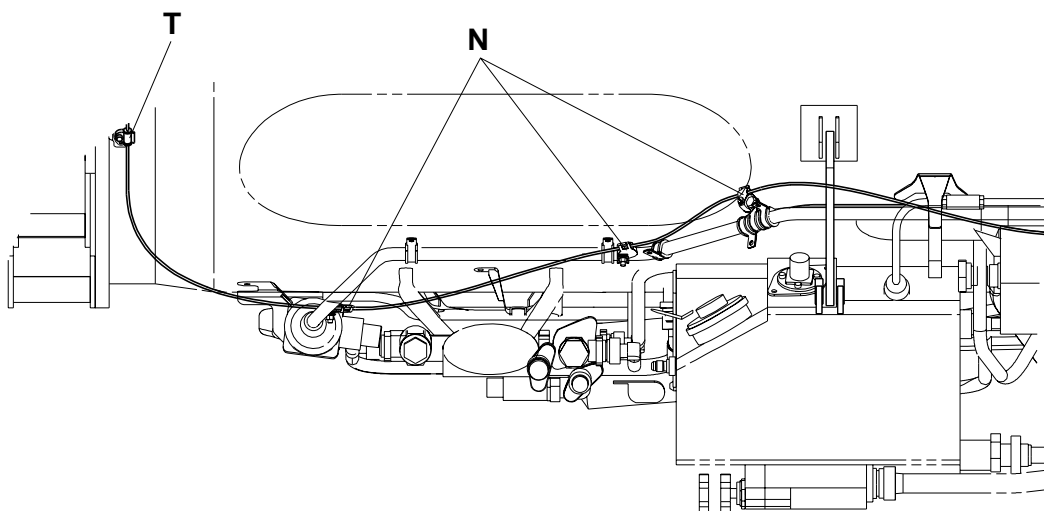
**Left Engine Fire Detector - Removal/Installation**

**Figure 401 - Sheet 3**



**DET. F**

PRE-MOD SB ROLLS-ROYCE AE3007A-72-276



**DET. F**

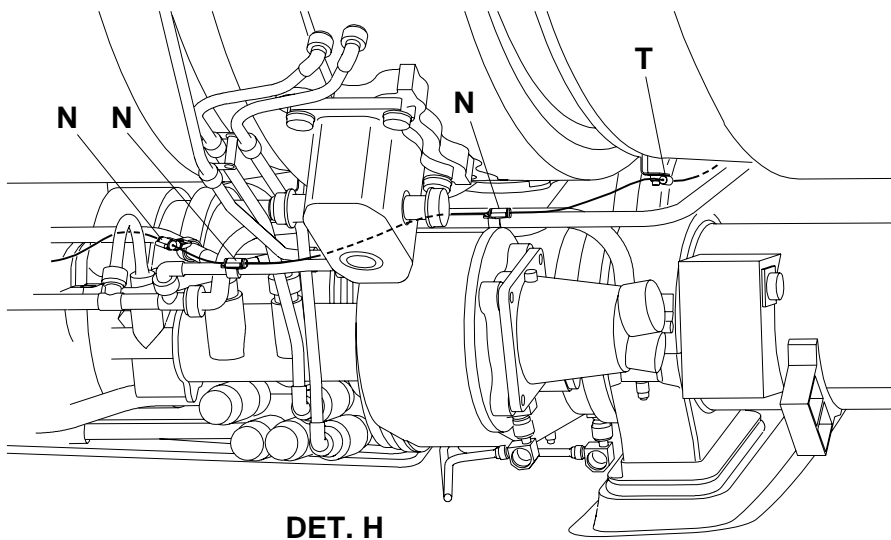
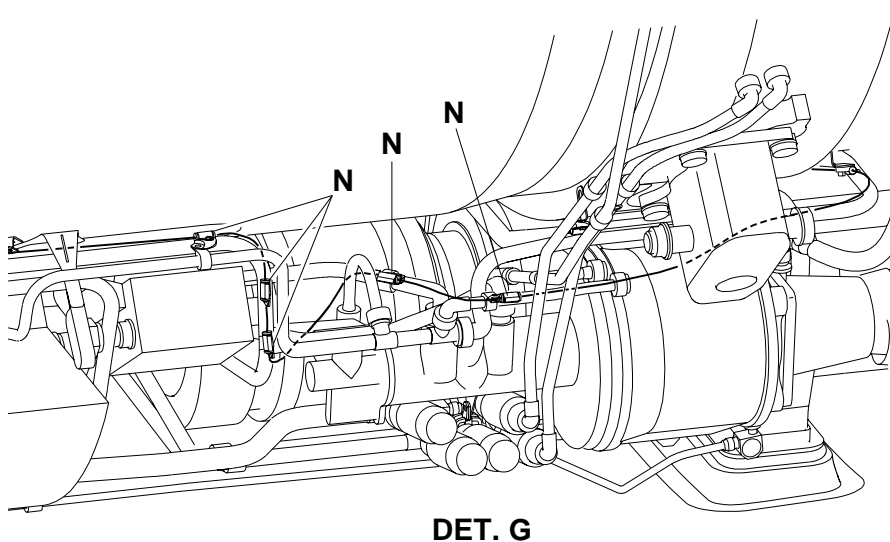
POST-MOD SB ROLLS-ROYCE AE3007A-72-276

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*EFFECTIVITY: ALL*

Left Engine Fire Detector - Removal/Installation

Figure 401 - Sheet 4

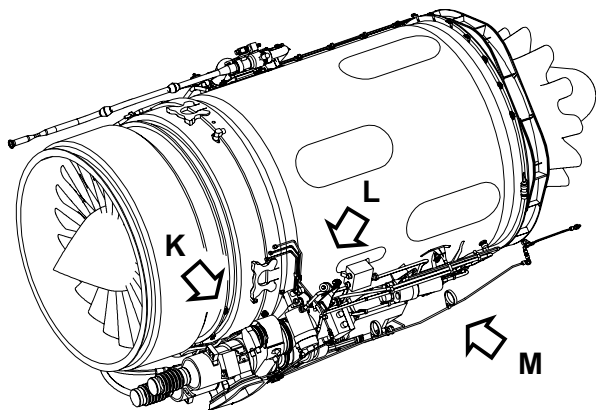


EM145AMM260217A.DGN

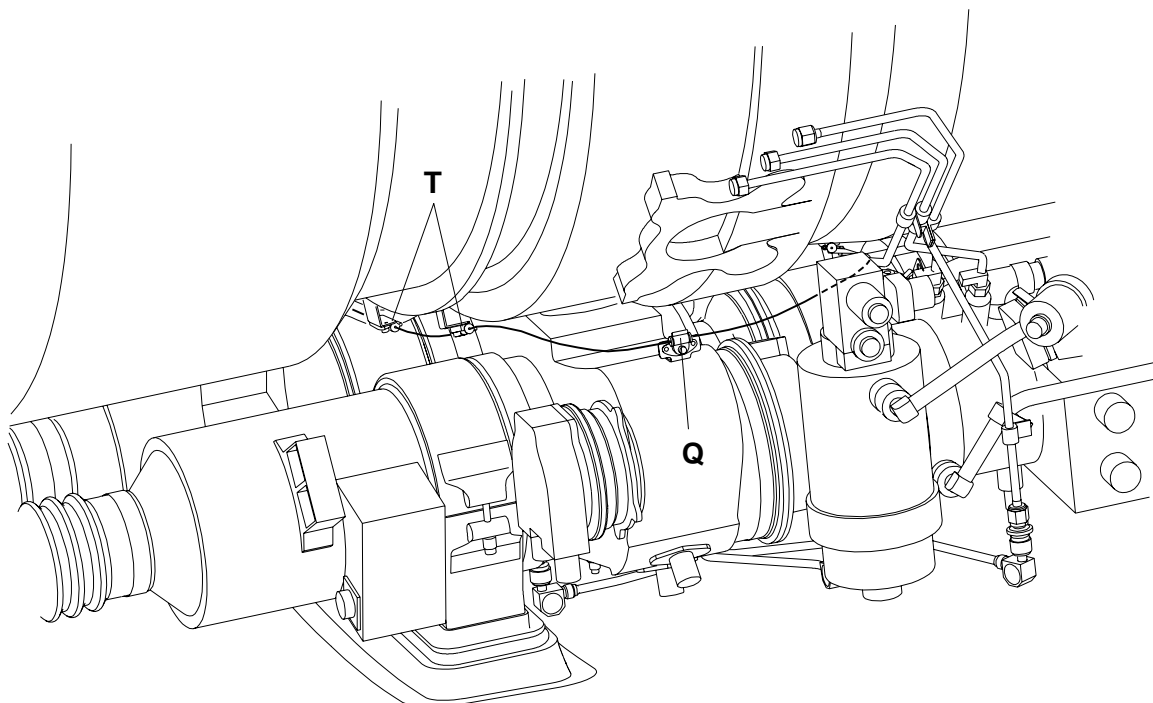
**EFFECTIVITY: ALL**

**Left Engine Fire Detector - Removal/Installation**

**Figure 401 - Sheet 5**



**DET. J**



**DET. K**

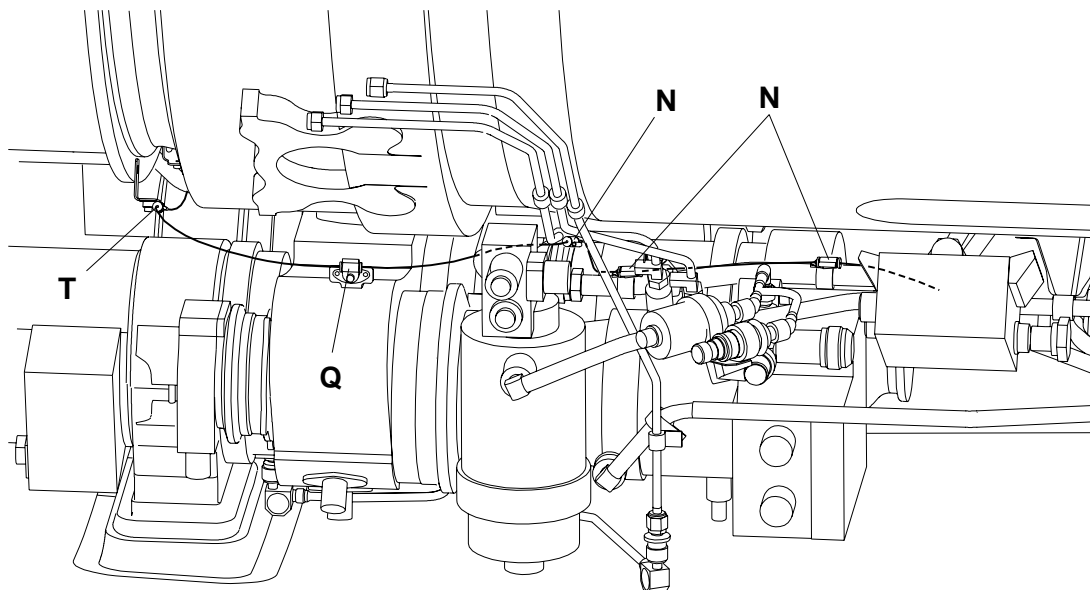
145AMM260134.MCE



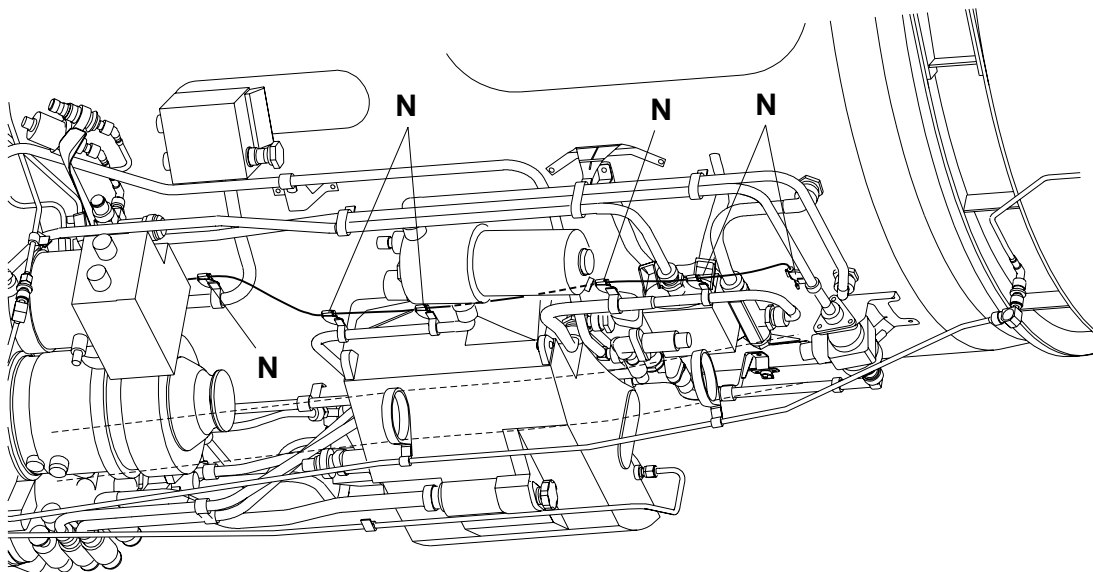
EFFECTIVITY: ALL

Left Engine Fire Detector - Removal/Installation

Figure 401 - Sheet 6



DET. L



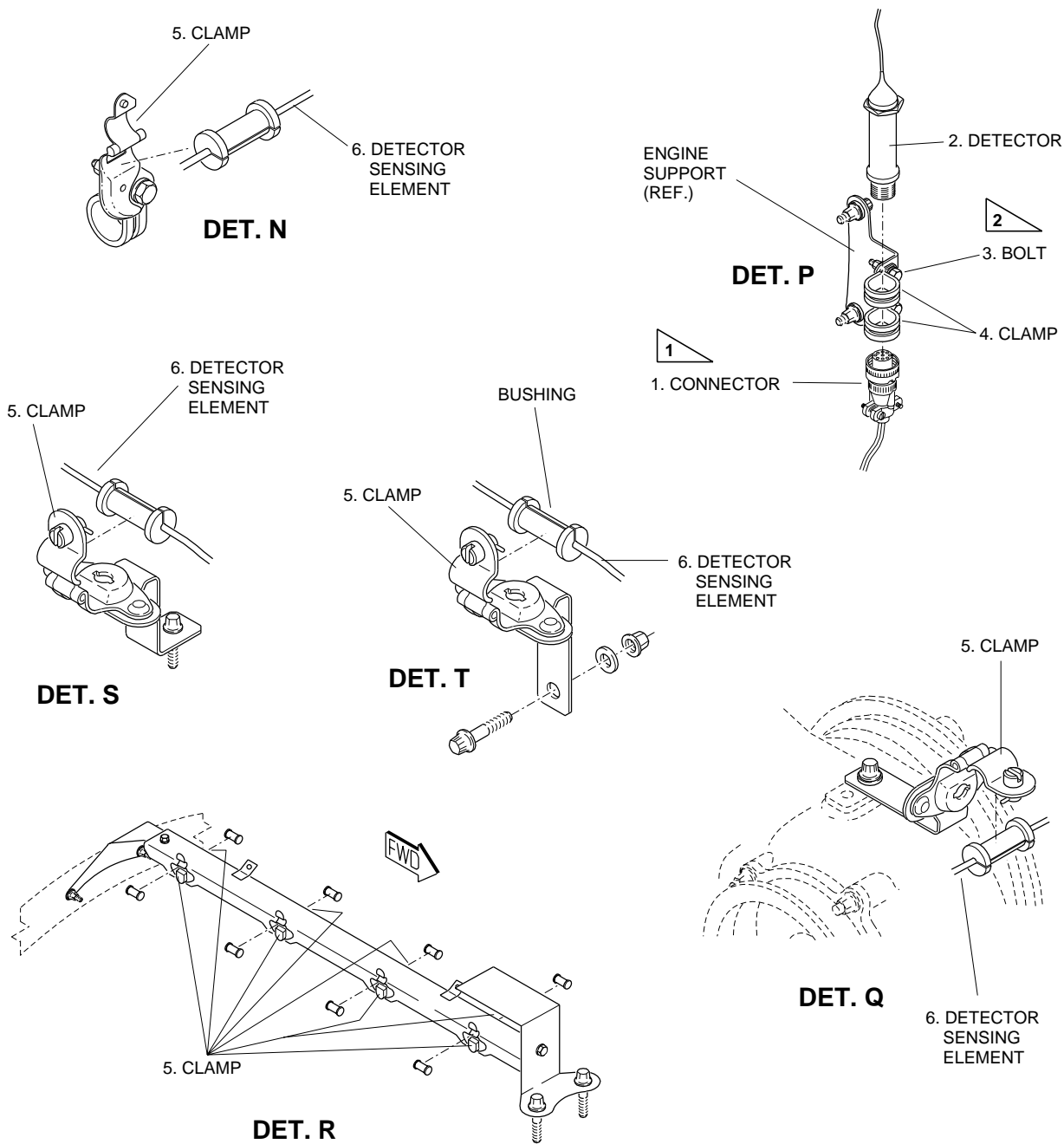
DET. M

145AMM260135.MCE

EFFECTIVITY: ALL

Left Engine Fire Detector - Removal/Installation

Figure 401 - Sheet 7



1 TORQUE: FINGER TIGHTENING+45°

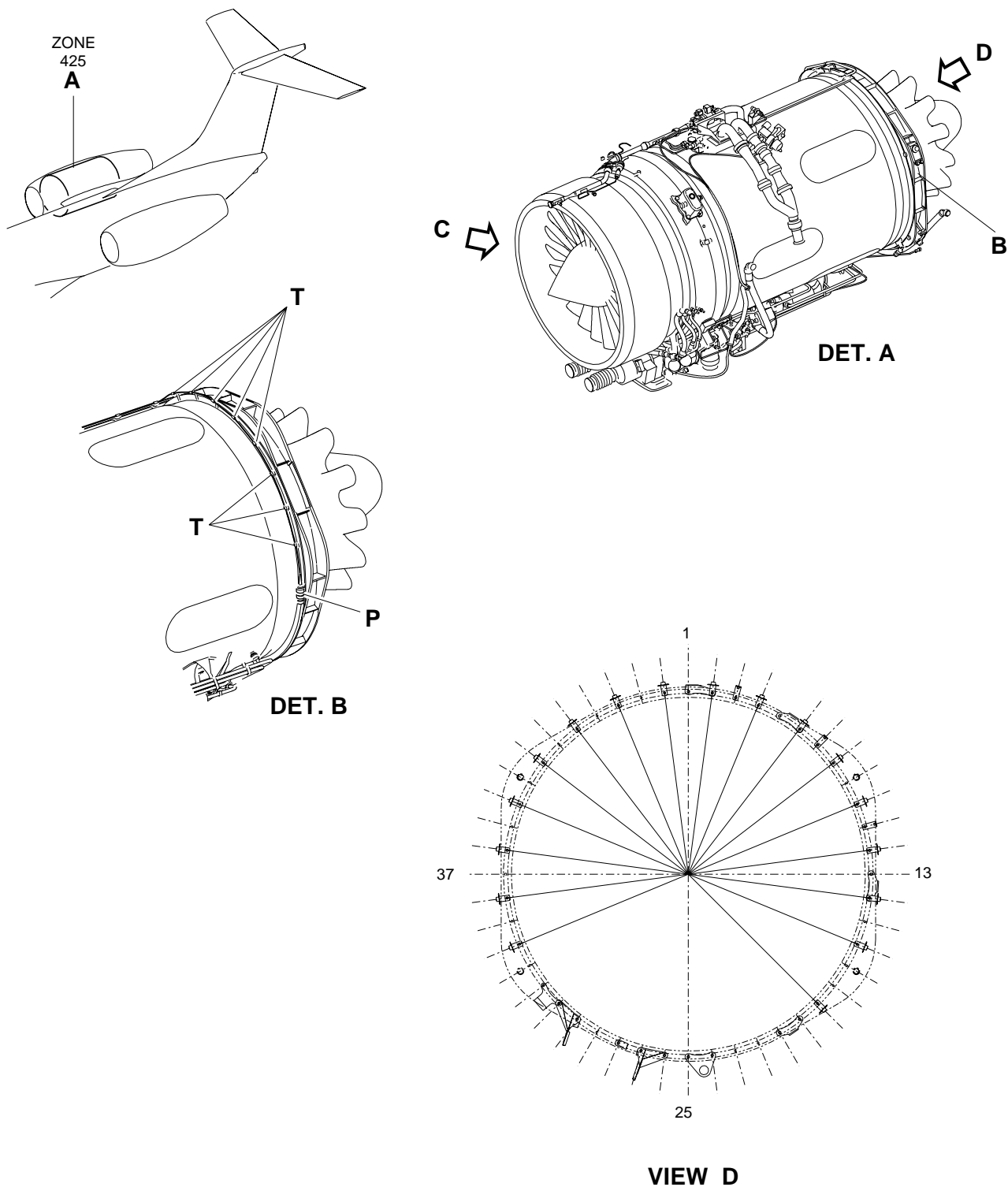
2 TORQUE: 2.8 TO 3.4 Nm (25 TO 30 lb.in)

145AMM260136.MCE

EFFECTIVITY: ALL

Right Engine Fire Detector - Removal/Installation

Figure 402 - Sheet 1

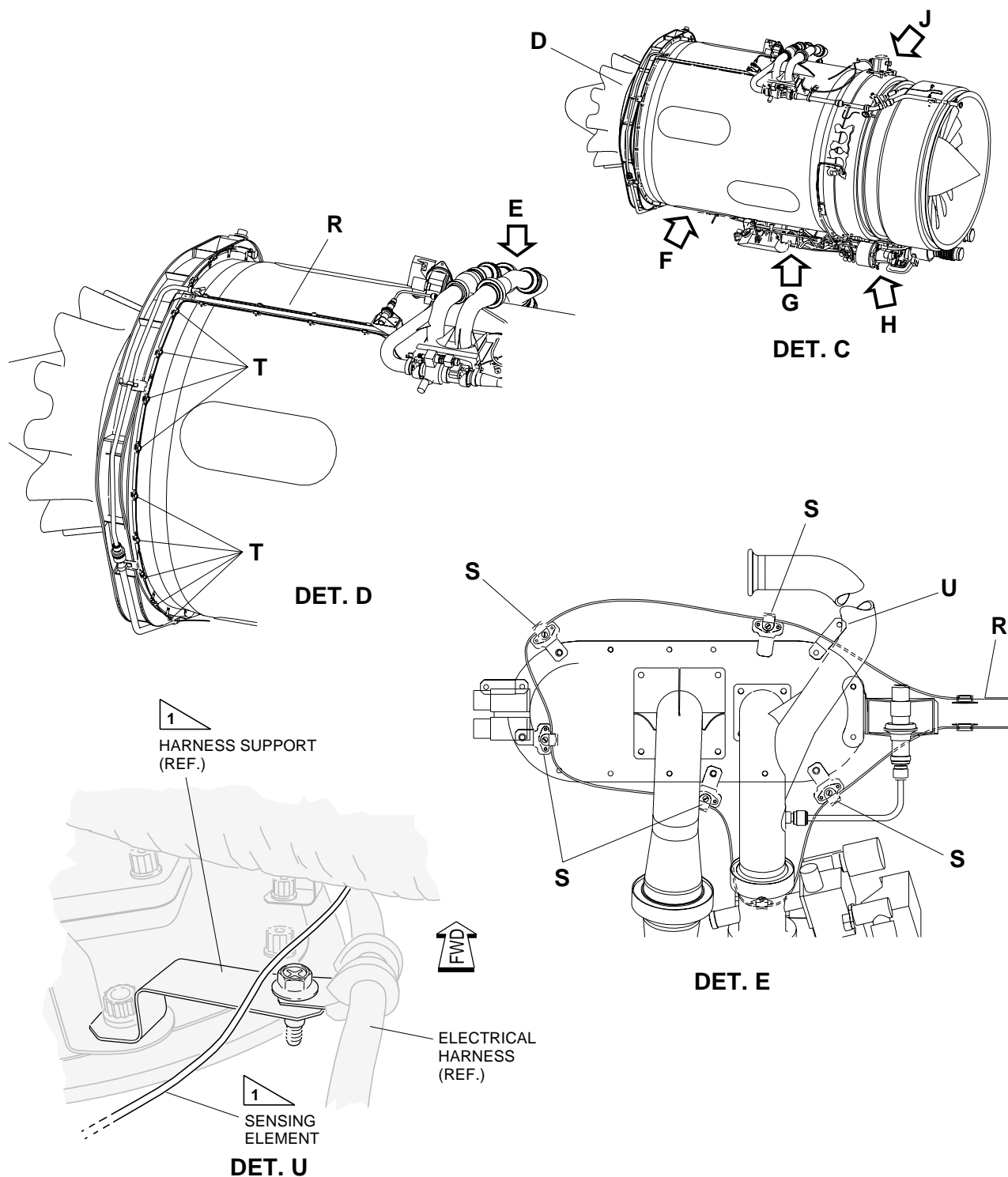


EM145AMM260137D.DGN

EFFECTIVITY: ALL

Right Engine Fire Detector - Removal/Installation

Figure 402 - Sheet 2



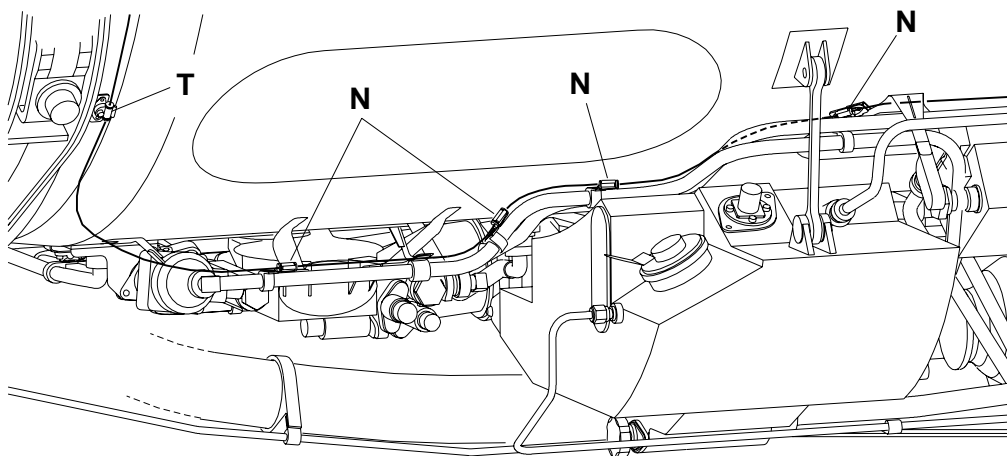
1 THE DETECTOR SENSING ELEMENT MUST PASS OVER (NOT BELOW) THE HARNESS SUPPORT.

EM145AMM260138B.DGN

**EFFECTIVITY: ALL**

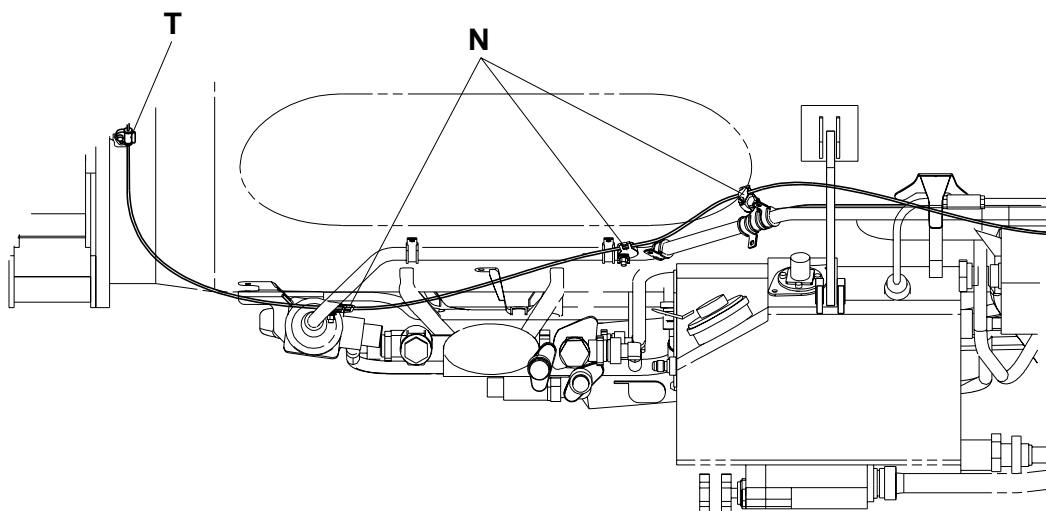
Right Engine Fire Detector - Removal/Installation

Figure 402 - Sheet 3



**DET. F**

PRE-MOD SB ROLLS-ROYCE AE3007A-72-276



**DET. F**

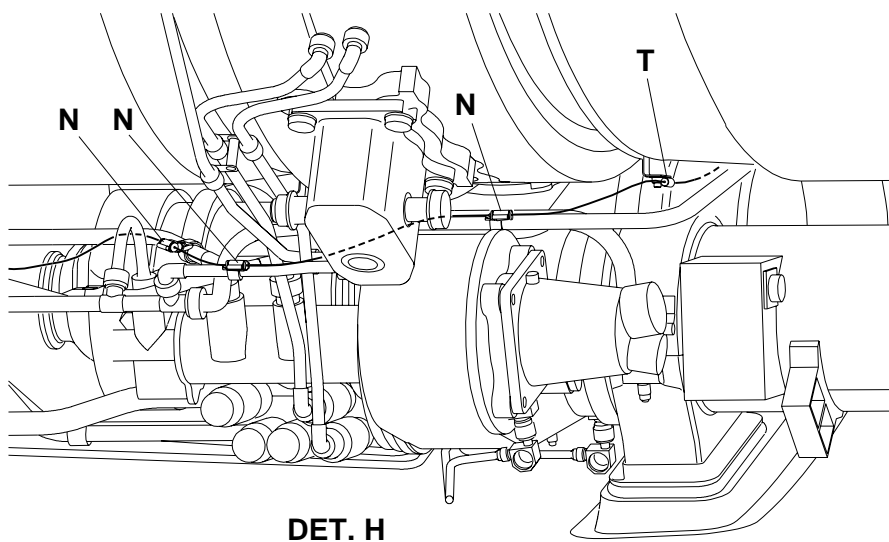
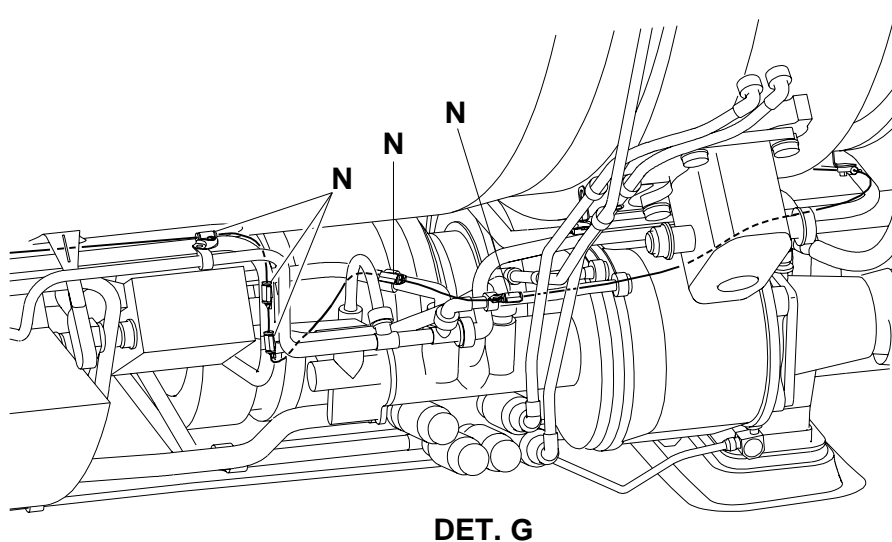
POST-MOD SB ROLLS-ROYCE AE3007A-72-276

145AMM260220A.MCE

**EFFECTIVITY: ALL**

**Right Engine Fire Detector - Removal/Installation**

**Figure 402 - Sheet 4**

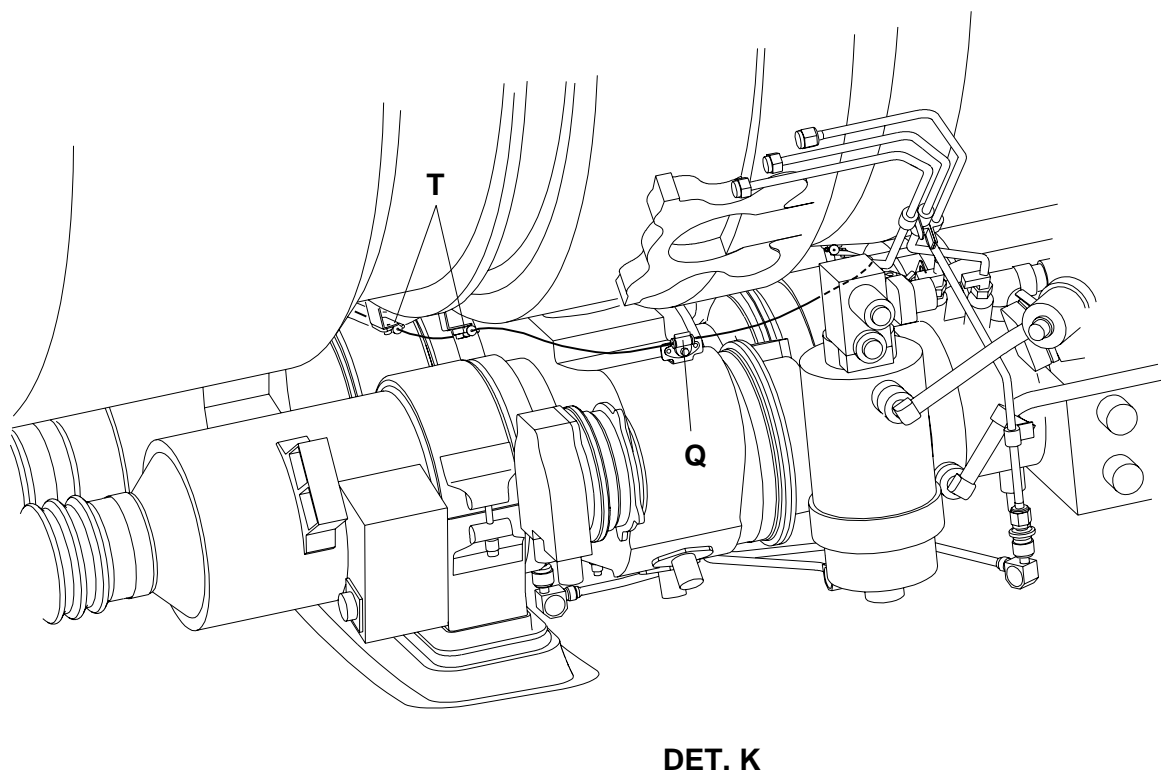
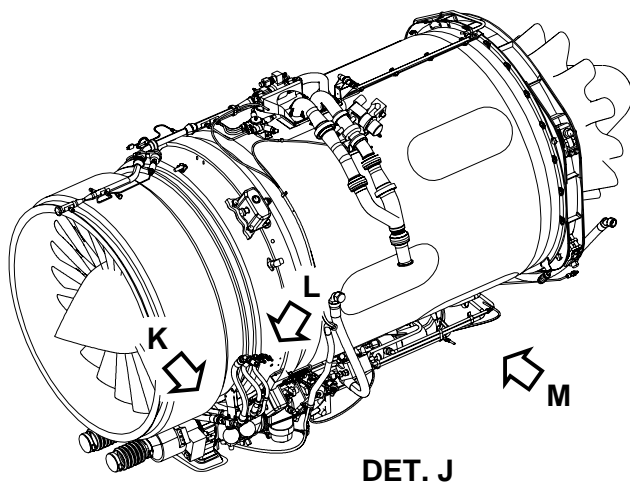


EM145AMM260219A.DGN

EFFECTIVITY: ALL

Right Engine Fire Detector - Removal/Installation

Figure 402 - Sheet 5

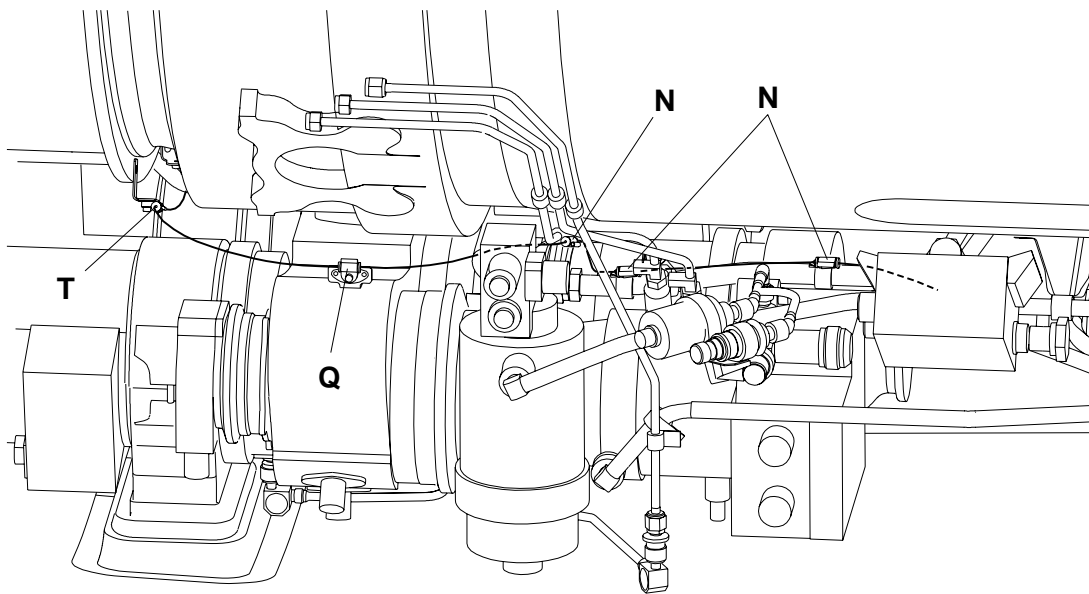


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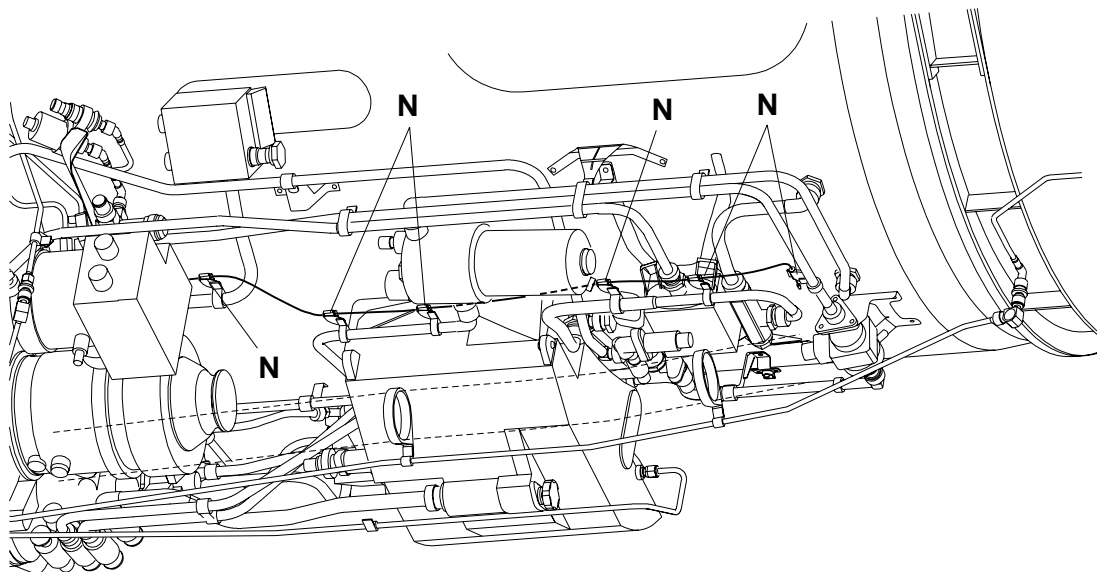
EFFECTIVITY: ALL

Right Engine Fire Detector - Removal/Installation

Figure 402 - Sheet 6



DET. L



DET. M

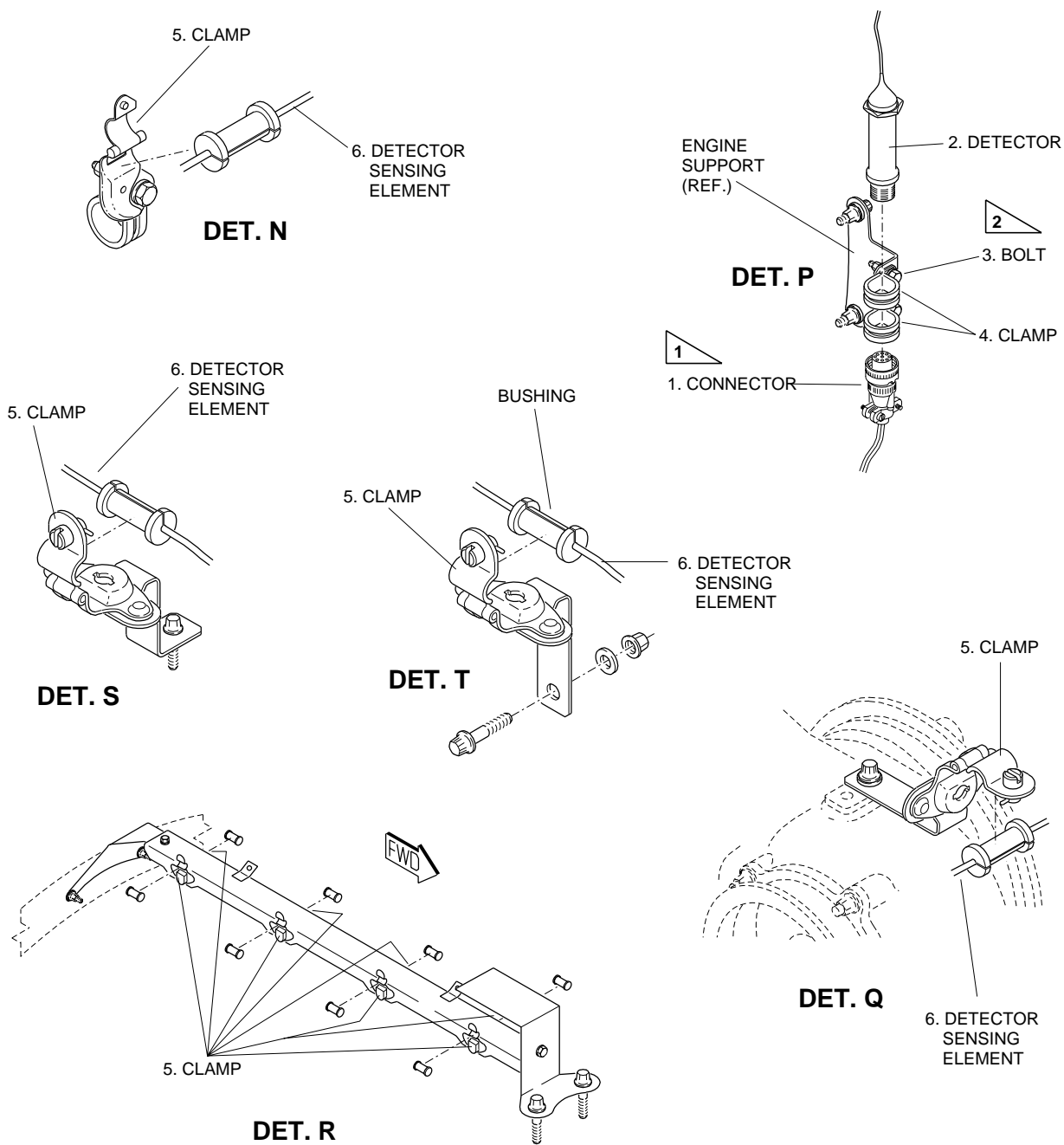
145AMM260141.MCE



EFFECTIVITY: ALL

Right Engine Fire Detector - Removal/Installation

Figure 402 - Sheet 7



1 TORQUE: FINGER TIGHTENING+45°

2 TORQUE: 2.8 TO 3.4 Nm (25 TO 30 lb.in)

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TASK 26-11-01-400-801-A

EFFECTIVITY: ALL

### 3. ENGINE FIRE DETECTOR - INSTALLATION

#### A. General

(1) This task is applicable to the LH and RH engines.

#### B. References

REFERENCE	DESIGNATION
<a href="#">AMM MPP 71-00-00/200</a>	- MAINTENANCE PRACTICES
AMM TASK 26-10-00-700-801-A/500	-
AMM TASK 26-10-00-700-802-A/500	-
<a href="#">AMM TASK 71-11-01-400-801-A/400</a>	ENGINE UPPER COWLING - INSTALLATION

#### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
412	Upper cowling	LH engine
422	Upper cowling	RH engine
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 (Figure 401) (Figure 402)

*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 PERSONS AND DAMAGE TO MATERIAL.

**CAUTION:** THE SENSING ELEMENT MUST NOT DIRECTLY TOUCH AN ENGINE PART OR HAVE SHARP BENDS OR MASHES.

- (1) Remove the protection caps from the disconnected points, if applicable.

**CAUTION:** THE DETECTOR SENSING ELEMENT MUST PASS OVER (NOT BELOW) THE HARNESS SUPPORT. SEE DET. U.

- (2) Put the detector (2) and sensing element (6) on the engine.
- (3) Attach the bolts (3) of the clamps (4) to hold the detector (2) to the engine support (REF.).
- (4) Attach the sensing element (6) to the clamps (5) with the Dzus fastener.
- (5) Connect the electrical connector (1) to the detector (2).

J. Follow-on

*SUBTASK 842-002-A*

- (1) On the circuit breaker panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them:
  - POWERPLANT FIRE DET 1/2.
  - START 1/2.
- (2) Do an operational test of the fire detection system (AMM TASK 26-10-00-700-801-A/500) or (AMM TASK 26-10-00-700-802-A/500) as applicable.
- (3) Install the upper cowling ([AMM TASK 71-11-01-400-801-A/400](#)).
- (4) Remove the workstand.

