



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

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).

<i>TASK NUMBER</i>	<i>DESCRIPTION</i>	<i>EFFECTIVITY</i>
26-11-01-000-801-A	ENGINE FIRE DETECTOR - REMOVAL	ALL
26-11-01-400-801-A	ENGINE FIRE DETECTOR - INSTALLATION	ALL



AIRCRAFT
MAINTENANCE MANUAL

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
AMM MPP 71-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 71-11-01-000-801-A/400	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.



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- (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

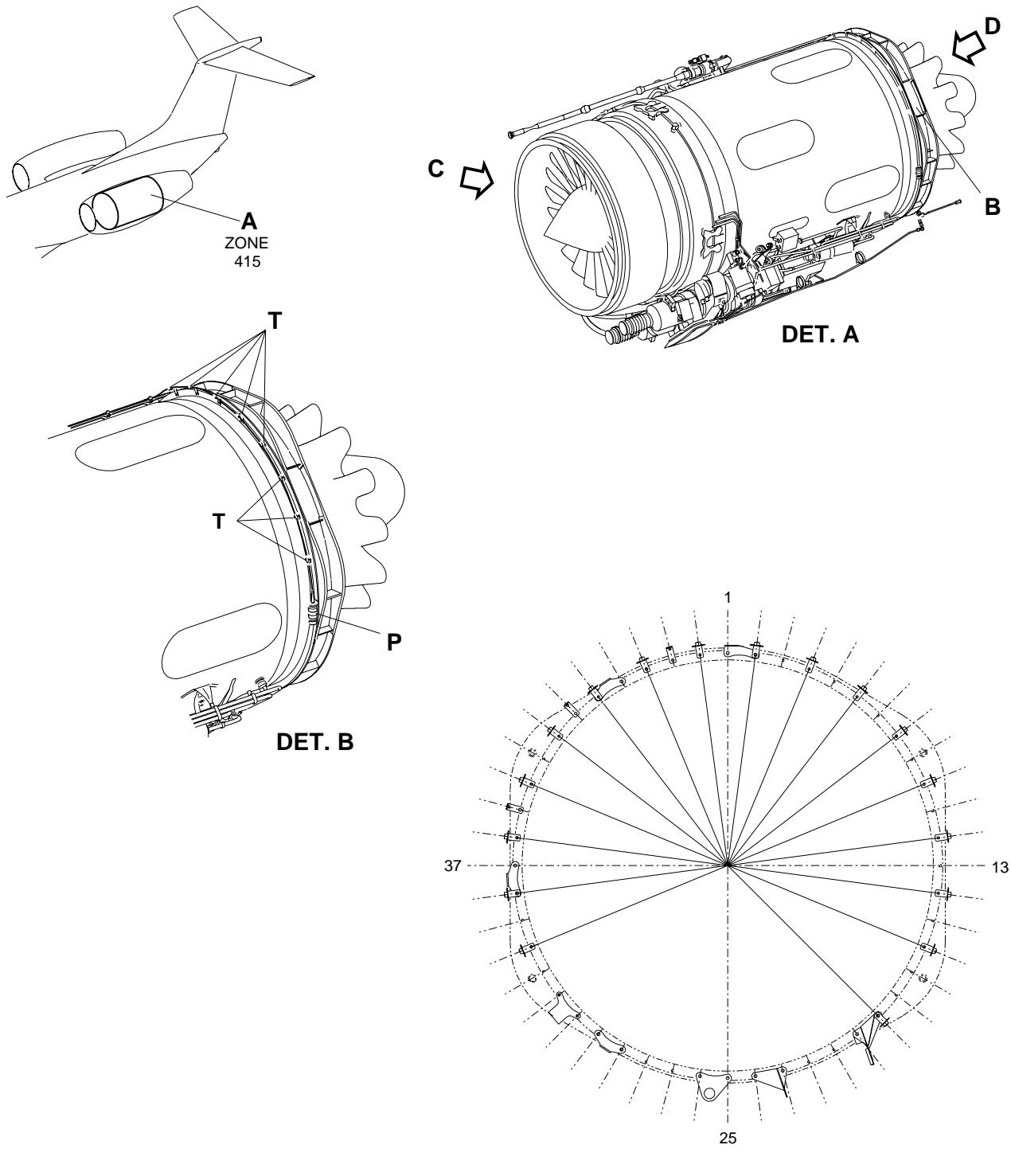
CAUTION: DURING THE REMOVAL PROCEDURE, IF THE DETECTOR IS IN CONDITION TO BE USED AGAIN, BE CAREFUL NOT TO CAUSE DAMAGE OR SHARP BENDS TO IT.

- (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



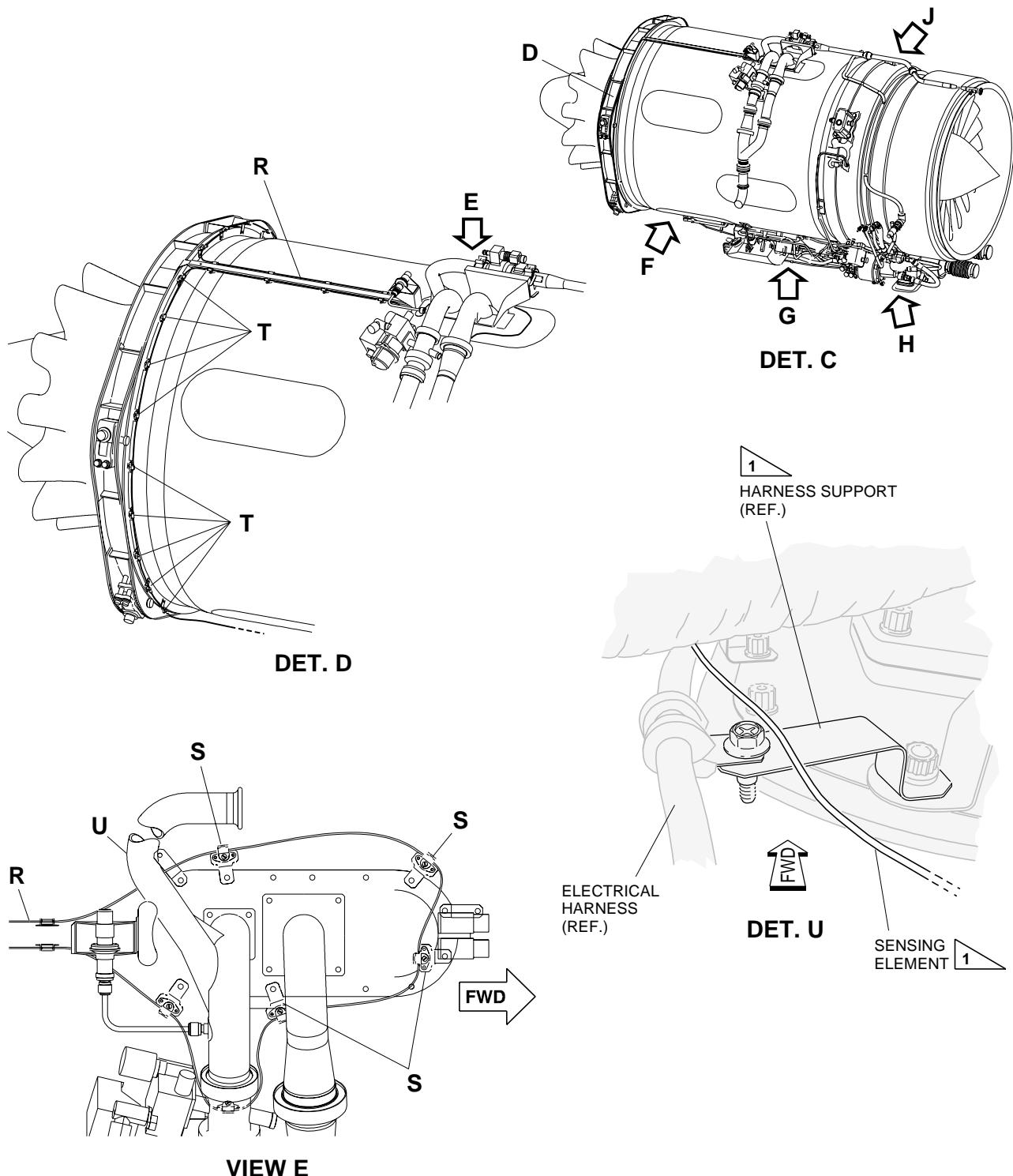
VIEW D

EM145AMM260131D.DGN

EFFECTIVITY: ALL

Left Engine Fire Detector - Removal/Installation

Figure 401 - Sheet 2



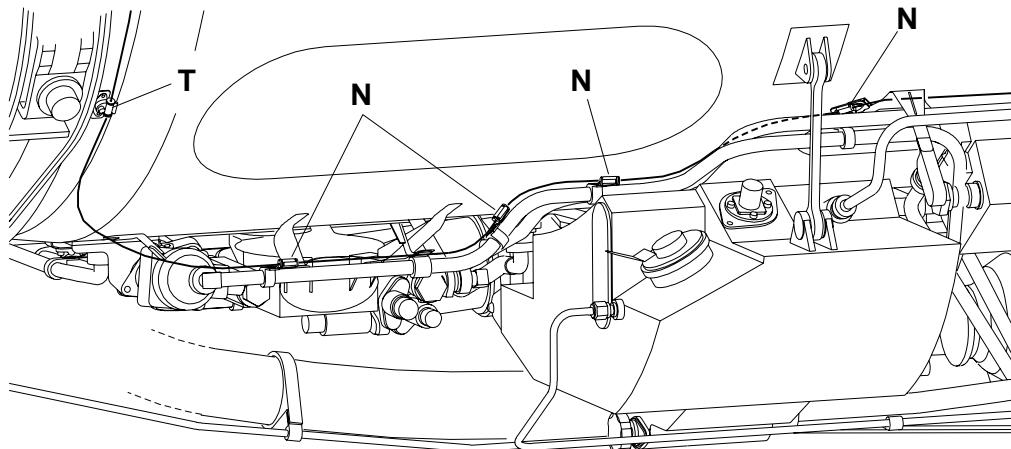
1 THE DETECTOR SENSING ELEMENT MUST PASS OVER (NOT BELOW) THE HARNESS SUPPORT.

EM145AMM260132B.DGN

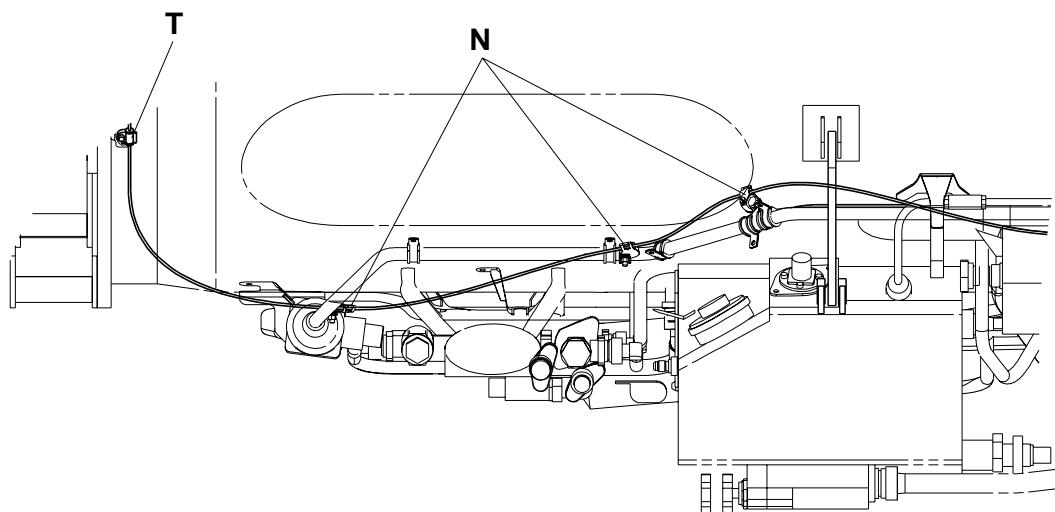
EFFECTIVITY: ALL

Left Engine Fire Detector - Removal/Installation

Figure 401 - Sheet 3


DET. F

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


DET. F

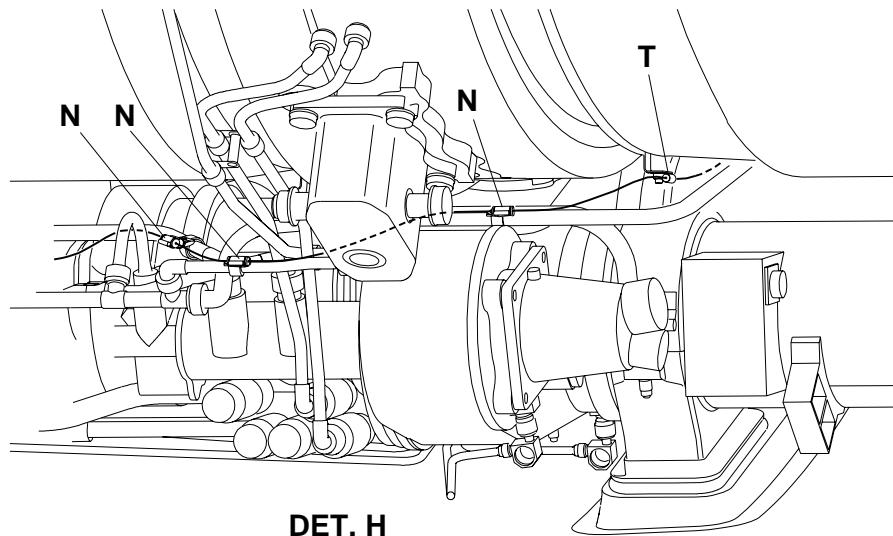
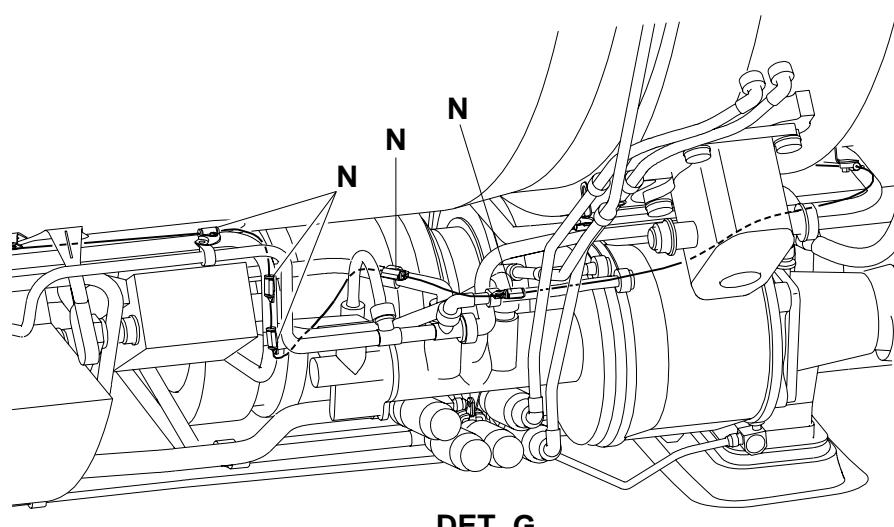
POST-MOD SB ROLLS-ROYCE AE3007A-72-276

145AMM260218A.MCE

EFFECTIVITY: ALL

Left Engine Fire Detector - Removal/Installation

Figure 401 - Sheet 4

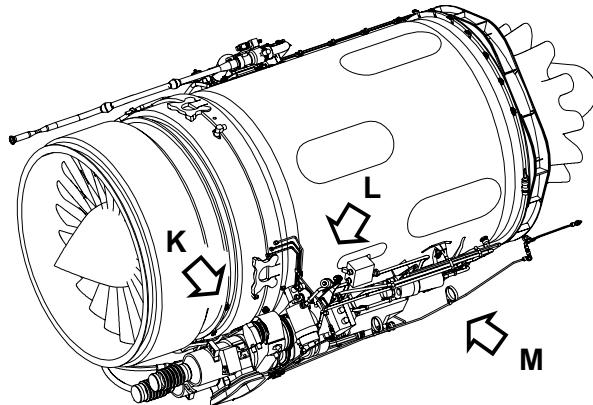


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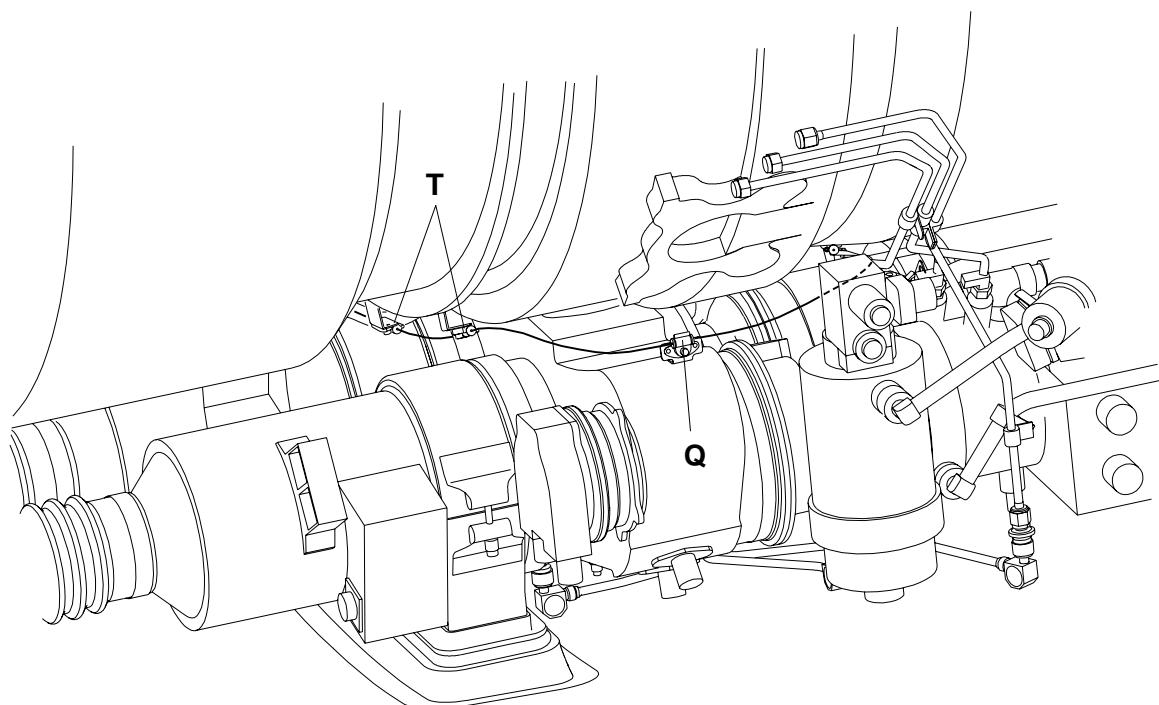
EFFECTIVITY: ALL

Left Engine Fire Detector - Removal/Installation

Figure 401 - Sheet 5



DET. J



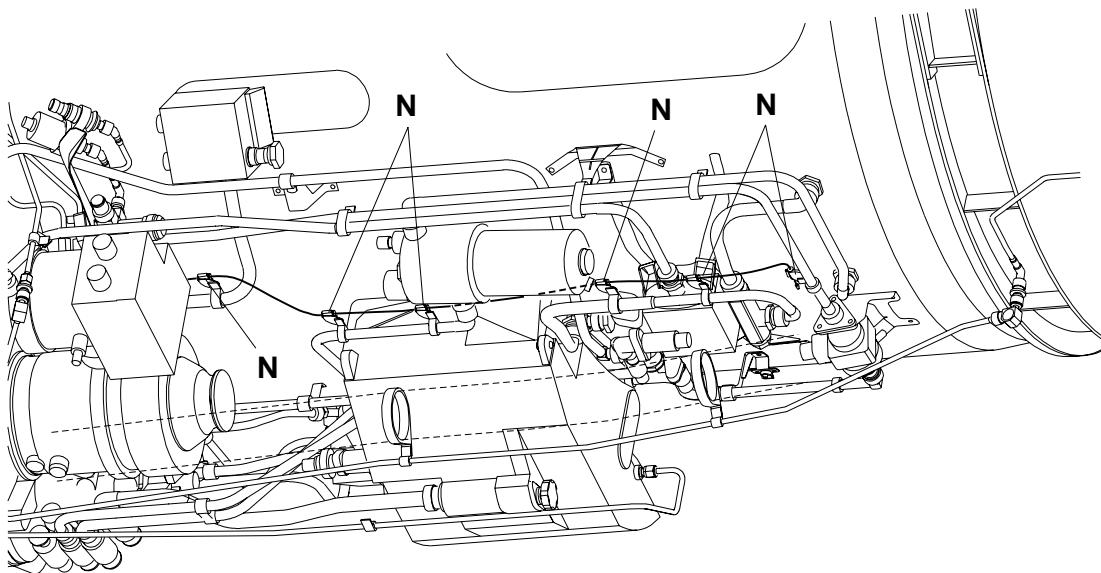
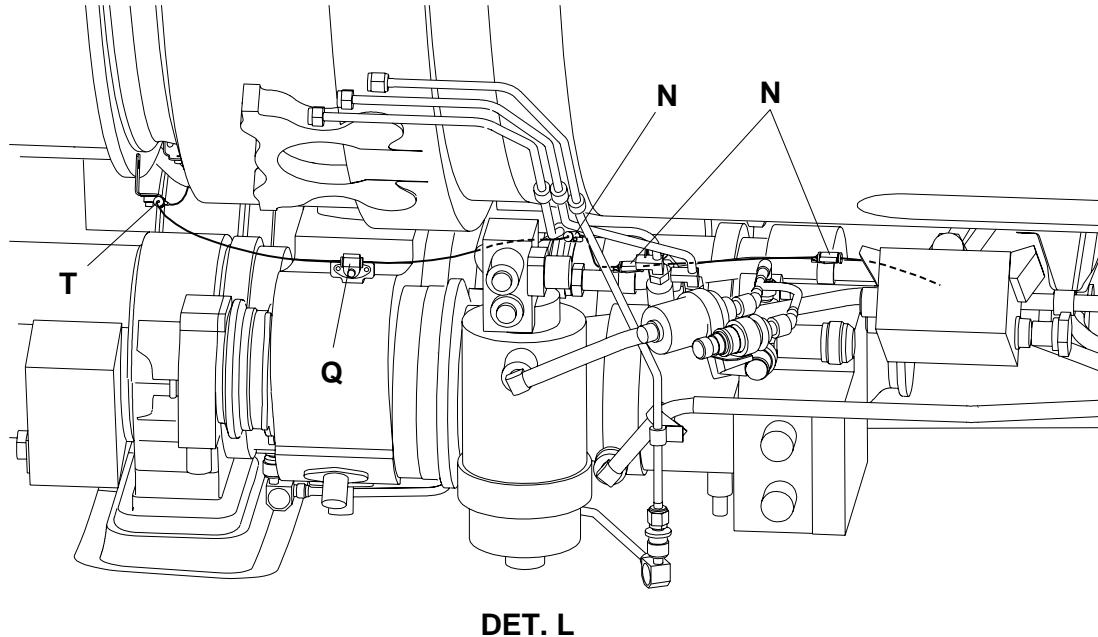
DET. K

145AMM260134.MCE

EFFECTIVITY: ALL

Left Engine Fire Detector - Removal/Installation

Figure 401 - Sheet 6

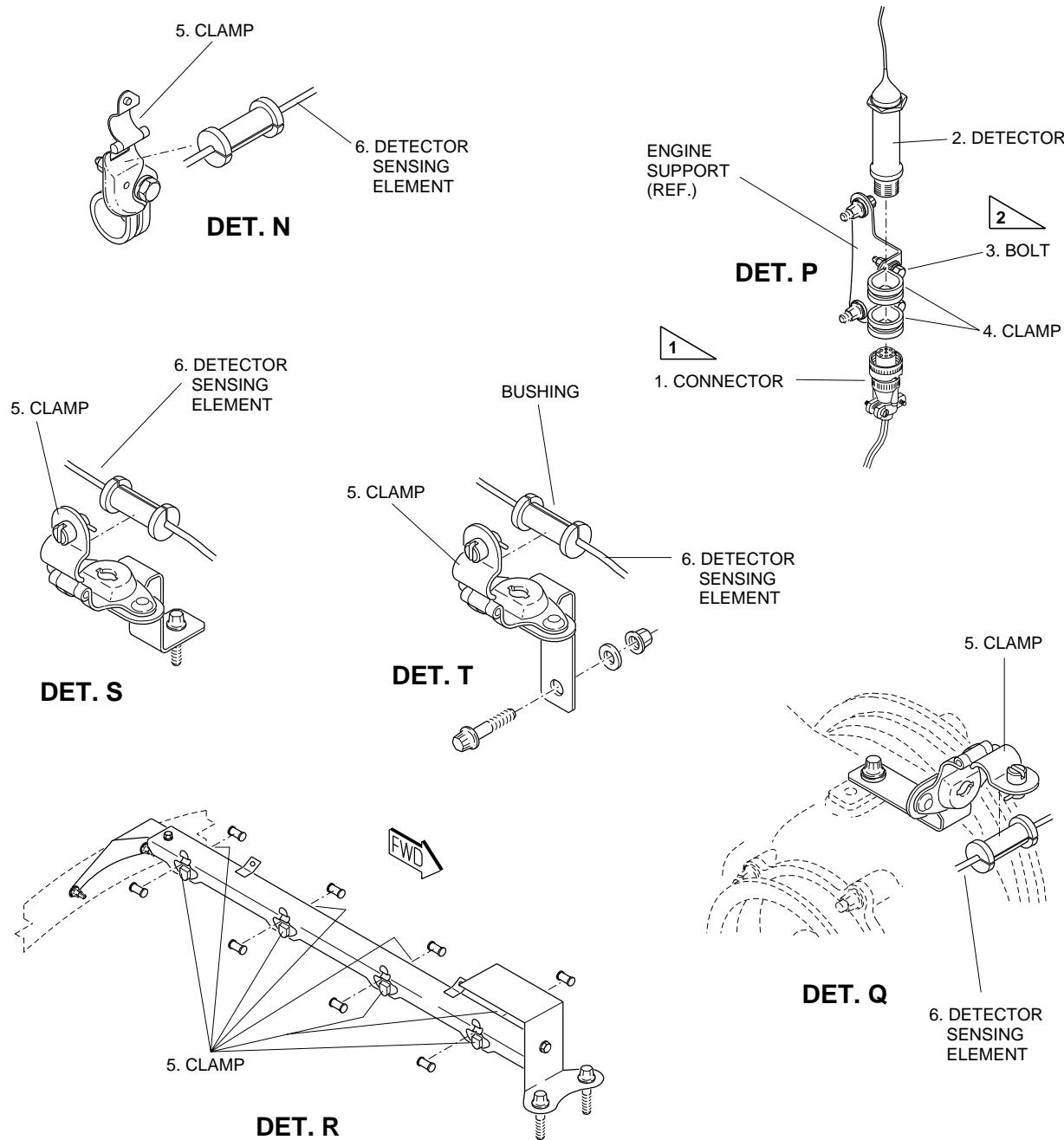


145AMM260135.MCE

EFFECTIVITY: ALL

Left Engine Fire Detector - Removal/Installation

Figure 401 - Sheet 7



1 TORQUE: FINGER TIGHTENING+45°

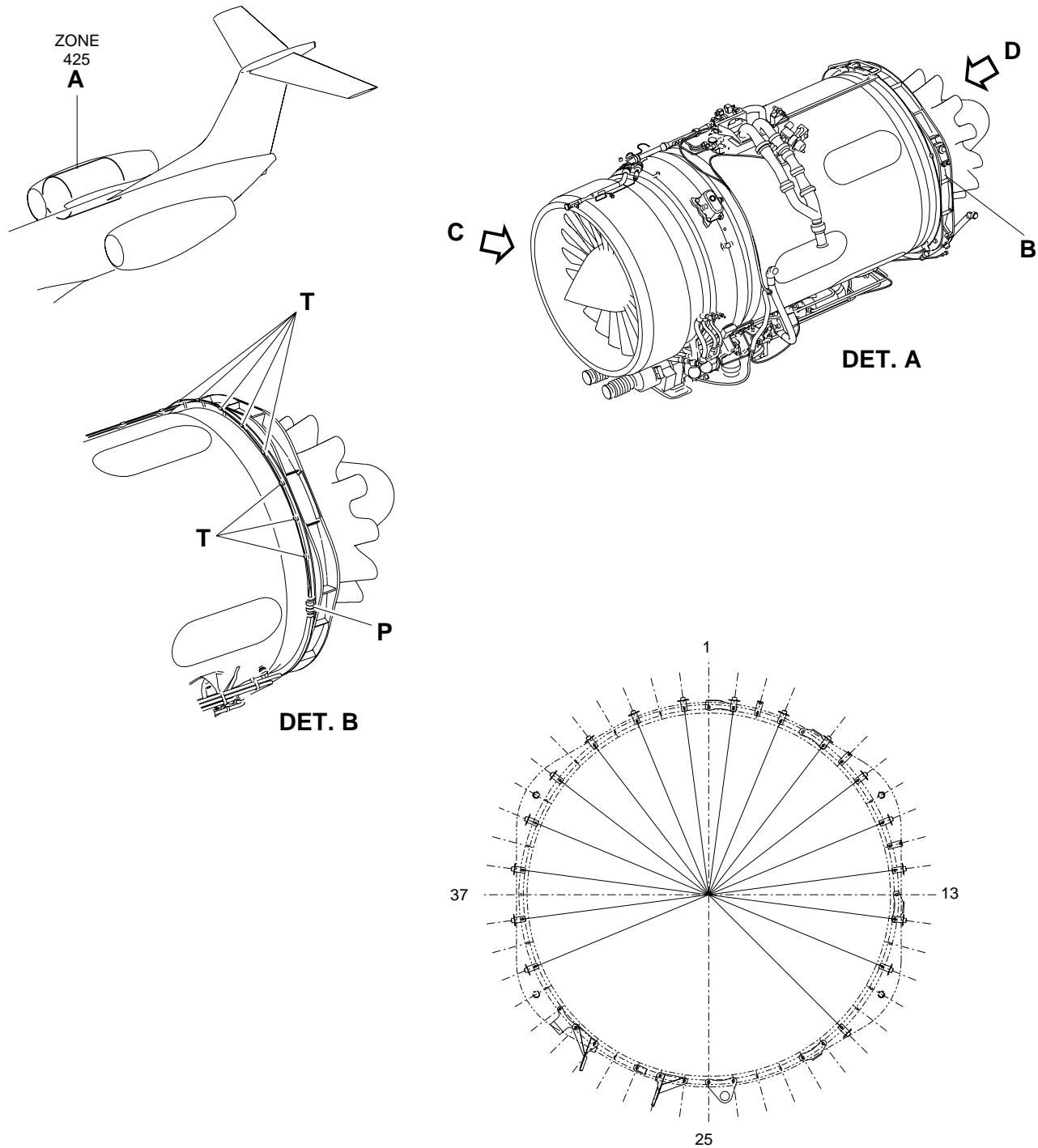
2 TORQUE: 2.8 TO 3.4 Nm (25 TO 30 lb.in)

145AMM260136.MCE

EFFECTIVITY: ALL

Right Engine Fire Detector - Removal/Installation

Figure 402 - Sheet 1

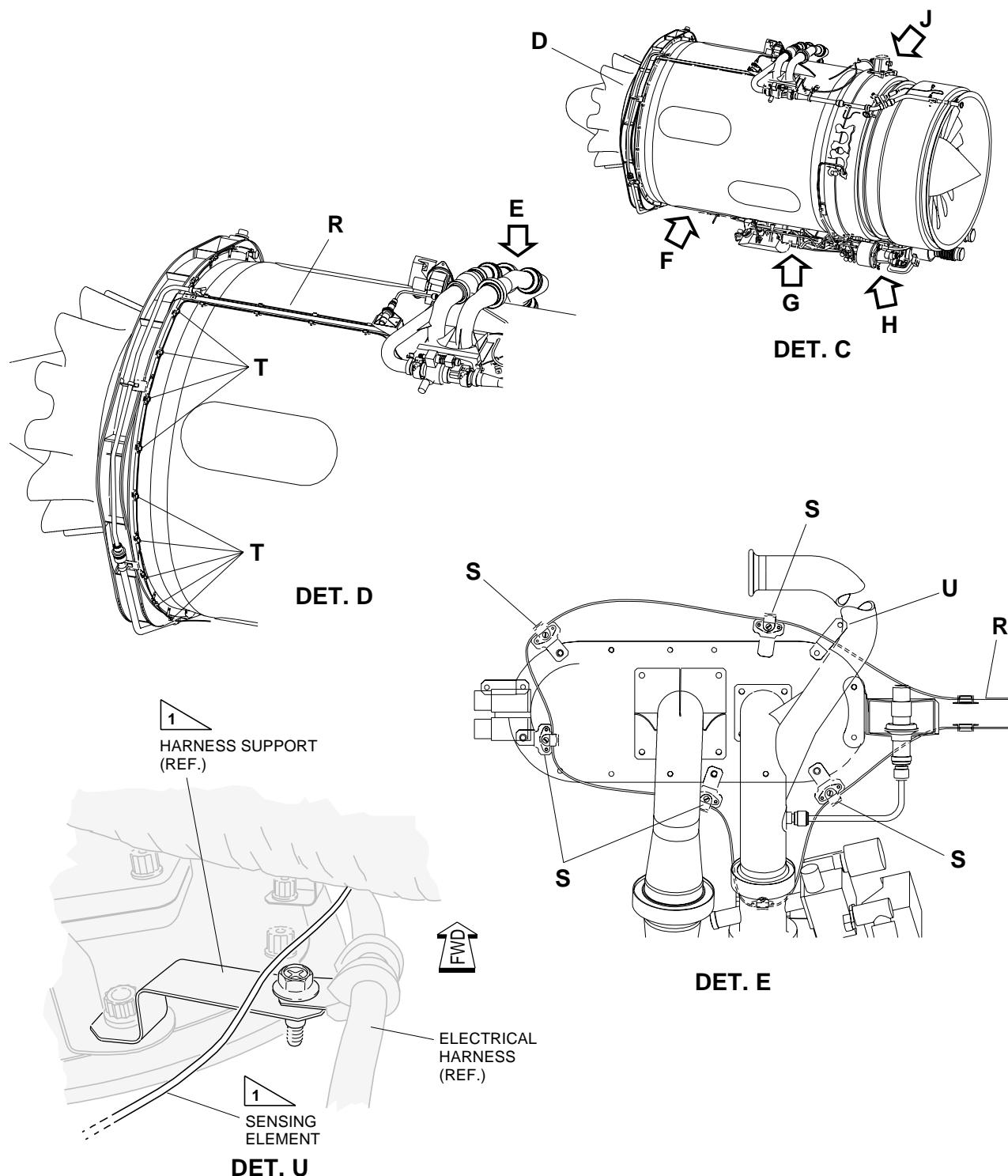

VIEW D

EM145AMM260137D.DGN

EFFECTIVITY: ALL

Right Engine Fire Detector - Removal/Installation

Figure 402 - Sheet 2

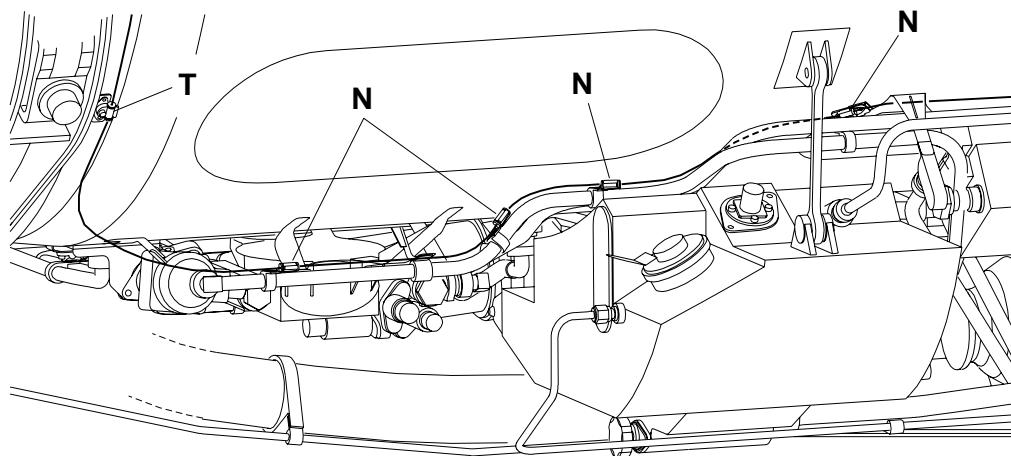


EM145AMM260138B.DGN

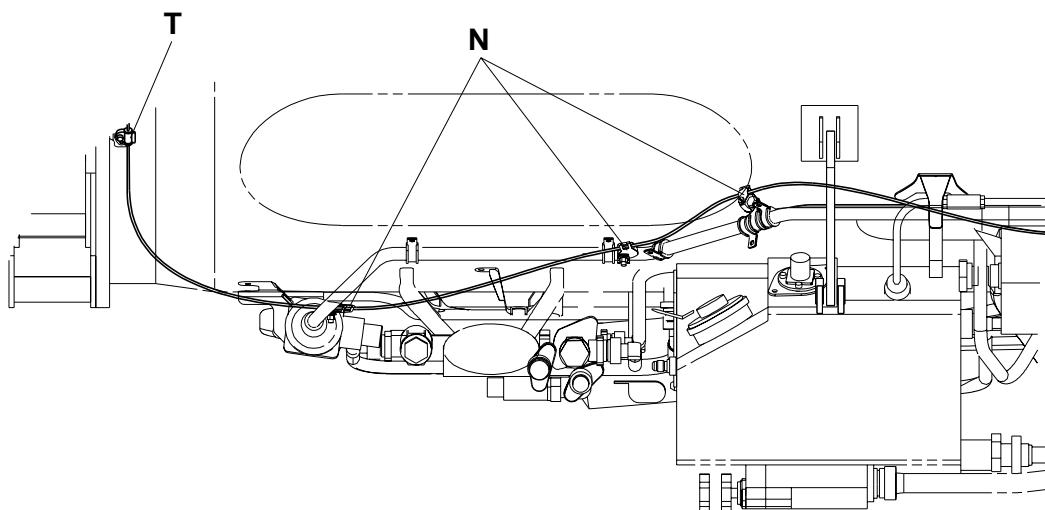
EFFECTIVITY: ALL

Right Engine Fire Detector - Removal/Installation

Figure 402 - Sheet 3


DET. F

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


DET. F

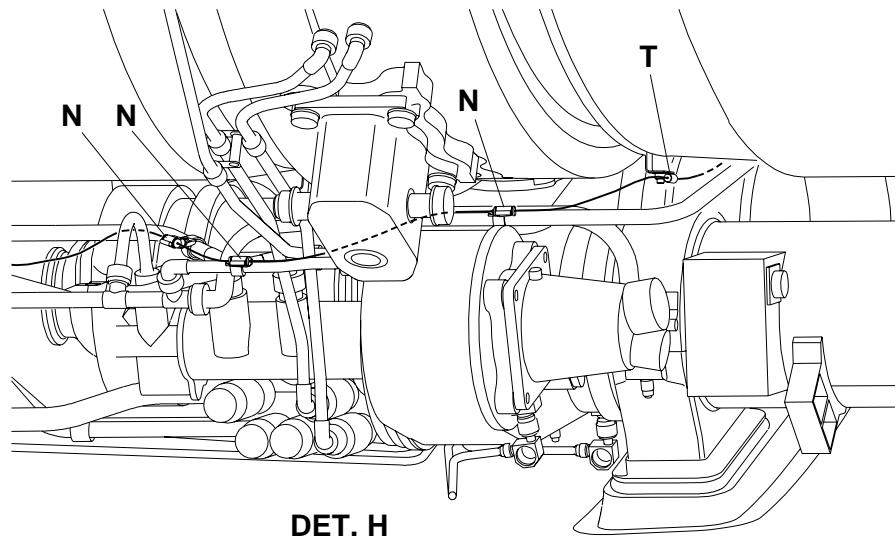
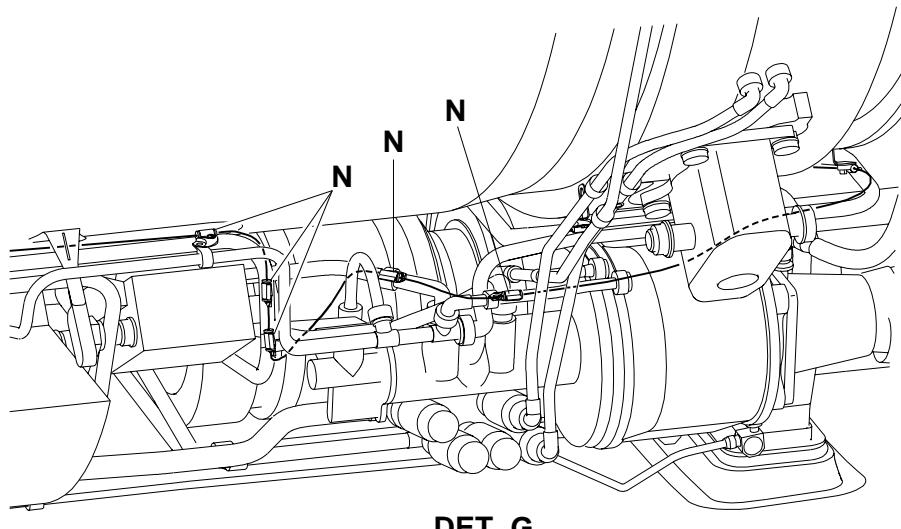
POST-MOD SB ROLLS-ROYCE AE3007A-72-276

145AMM260220A.MCE

EFFECTIVITY: ALL

Right Engine Fire Detector - Removal/Installation

Figure 402 - Sheet 4

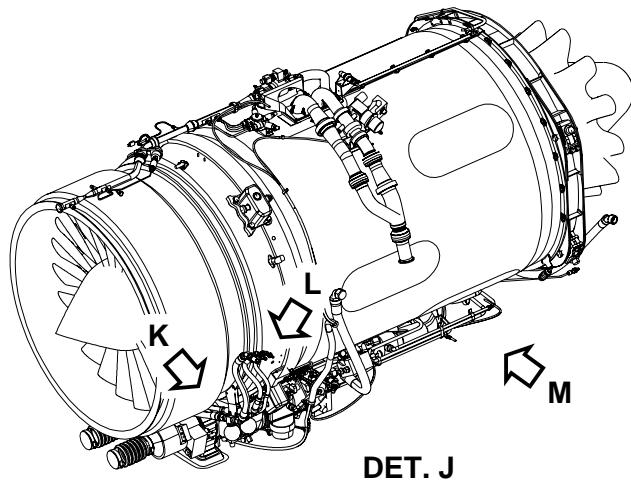


EM145AMM260219A.DGN

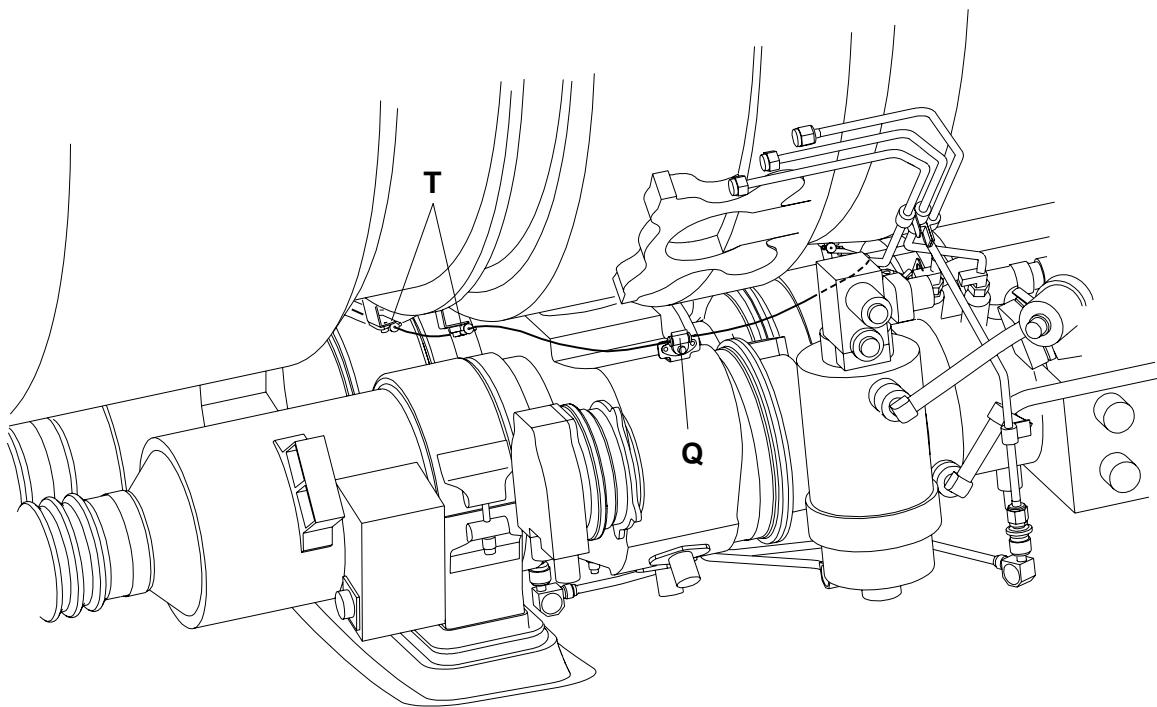
EFFECTIVITY: ALL

Right Engine Fire Detector - Removal/Installation

Figure 402 - Sheet 5



DET. J



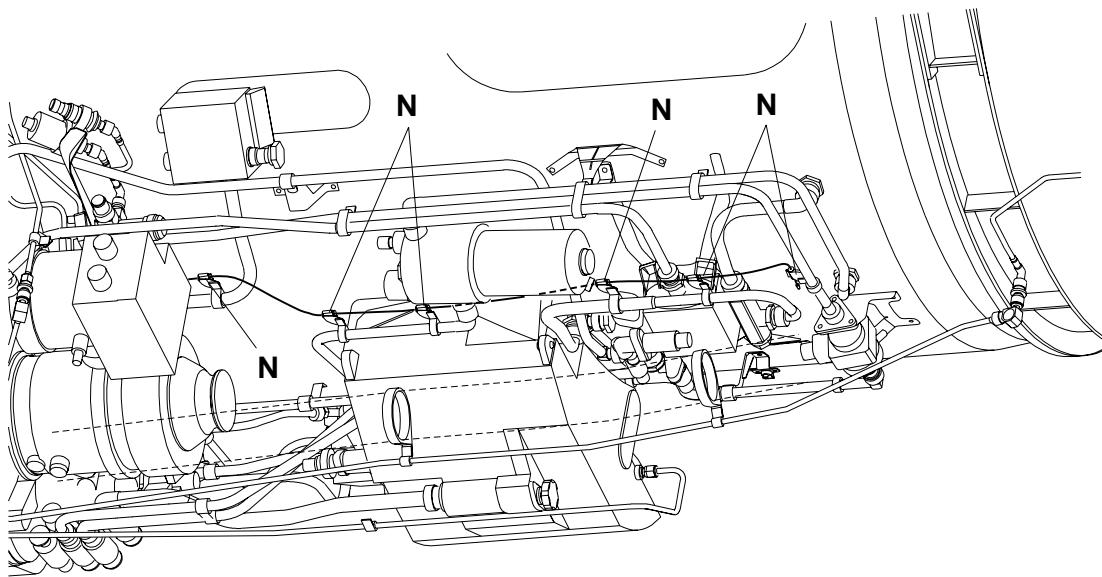
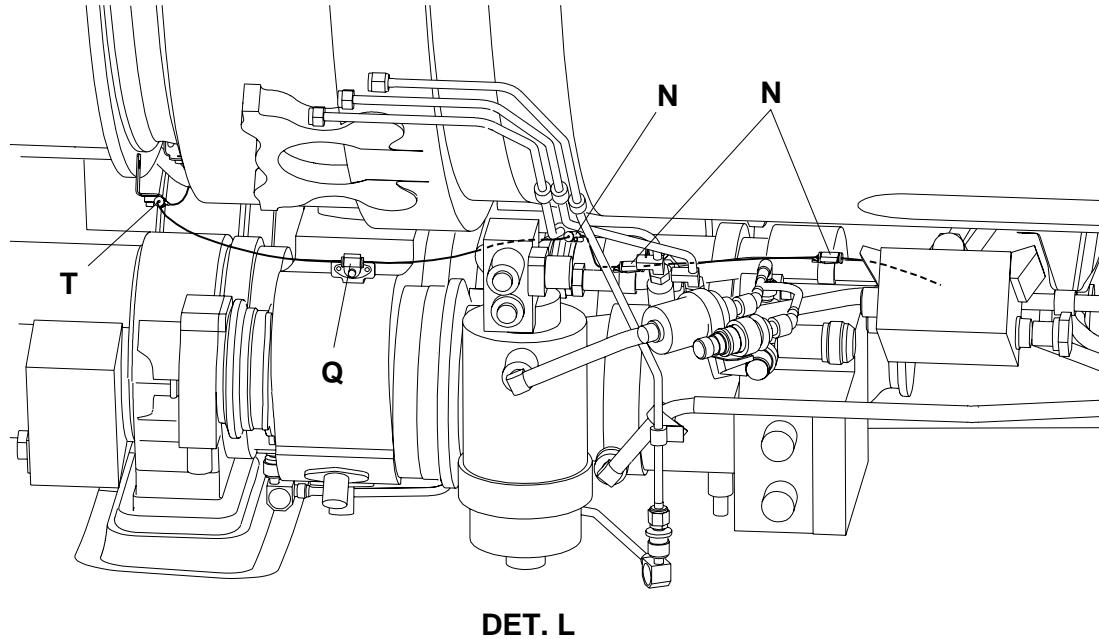
DET. K

145AMM260140.MCE

EFFECTIVITY: ALL

Right Engine Fire Detector - Removal/Installation

Figure 402 - Sheet 6

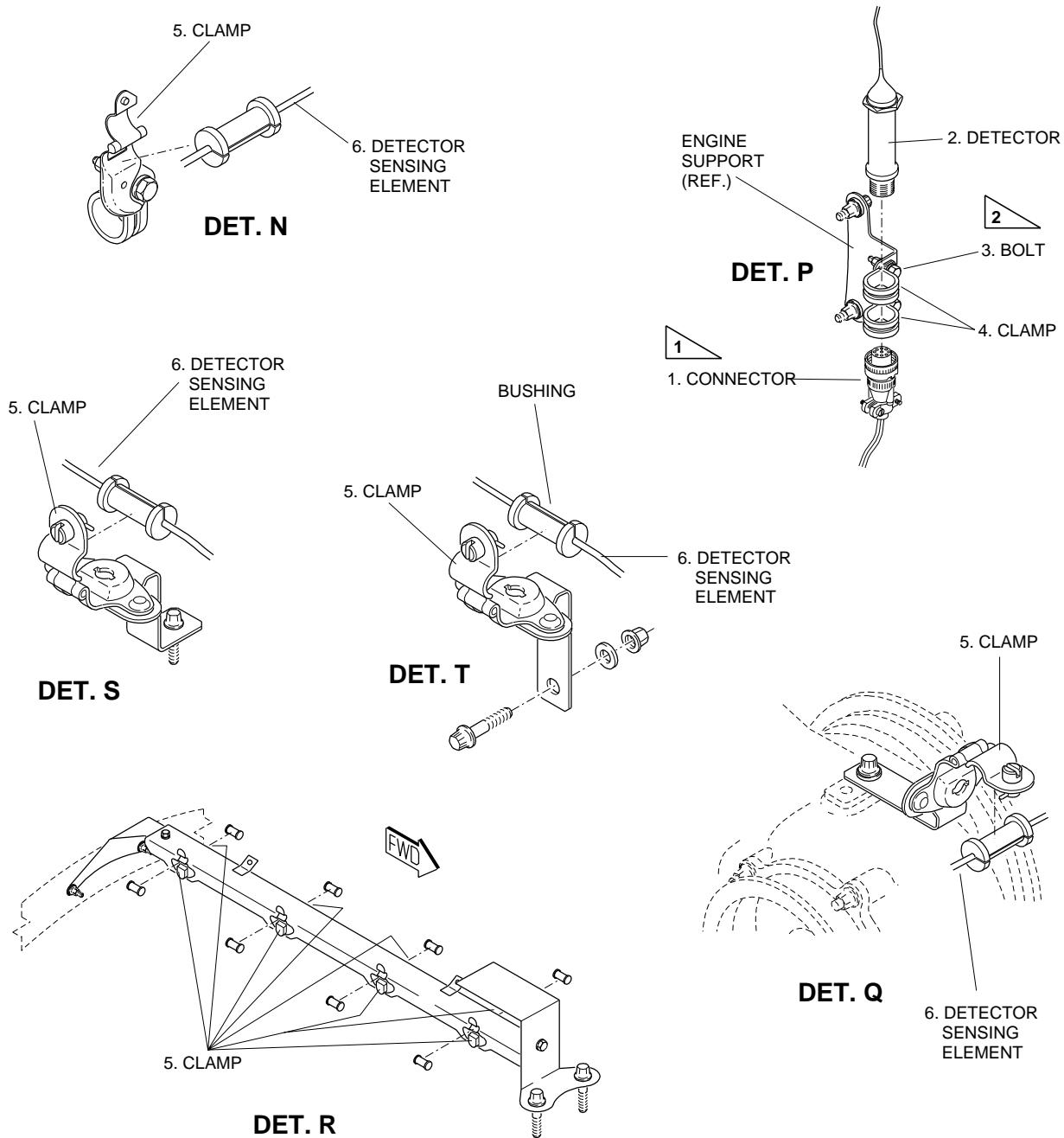

DET. M

145AMM260141.MCE

EFFECTIVITY: ALL

Right Engine Fire Detector - Removal/Installation

Figure 402 - Sheet 7



145AMM260142.MCE



AIRCRAFT
MAINTENANCE MANUAL

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
AMM MPP 71-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 26-10-00-700-801-A/500	-
AMM TASK 26-10-00-700-802-A/500	-
AMM TASK 71-11-01-400-801-A/400	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

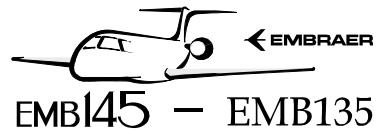
Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Engine



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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.

