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V2500-A5 SERIES SERIES PROPULSION SERVICE BULLETIN

Printed in Great Britain

This document transmits Revision 4 to Service Bulletin NV2500-71-0273

Document History

Service Bulletin Revision Status		Supplement Revision Status
Initial Issue	Nov.14/03	
Revision 1	Mar.22/04	
Revision 2	Mar.31/04	
Revision 3	Jul.26/04	

Service Bulletin Revision 4

Remove	Incorporate	Reason for change
All pages	Pages 1 to 72 of the Service Bulletin	To revise torque values in Accomplishment Instructions and replace Illustrations.

V2500-NAC-71-0273

Transmittal - Page 1 of 1

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NACELLE – ENGINE BUILD UNIT (EBU) – REPLACEMENT AND REROUTING OF SEVERAL EBU SYSTEMS
TO ACCOMMODATE THE REROUTING OF THE OIL SCAVENGE TUBES

1. Planning Information

A. Effectivity

(1) Airbus A319

(a) V2522-A5, V2524-A5, V2527M-A5 Nacelles prior to Serial No.N6460 (EBU 1450001).

(2) Airbus A320

(a) V2527-A5, V2527E-A5 Nacelles prior to Serial No.N6460 (EBU 1450001).

(3) Airbus A321

(a) V2530-A5, V2533-A5 Nacelles prior to Serial No.N6460 (EBU 1450001).

B. Concurrent Requirements

The Service Bulletins below should be incorporated prior to or concurrently with this Service Bulletin:

- (1) V2500-NAC-71-0285 – Nacelle – Right Hand Fan Cowl Door – Hold Open Rod – Re-orientation of the Hold Open Rod and installation of a new Rod Stowage Bracket.
- (2) V2500-ENG-79-0088 – Oil – Scavenge Oil Tubes – Reroute of Number 4 Bearing Scavenge Pipe.
- (3) 801-26-65 – Modification of Meggitt Fan Fire Detector Assembly.
- (4) 473873-1-26-456 – Fire Protection – Fire Detection – Modification of the Fire Detector.
- (5) V2500-ENG-71-0276 – Engine – Engine Build Unit (EBU) – Rework of the Electrical Harness and Bracket Assembly to Accommodate the Rerouting of the Oil Scavenge Tubes.
- (6) 473873-2-26-464 – Fire Protection – Fire Detection – Modification of the Fire Detector.

C. Reason**(1) Problem**

Various EBU systems share clipping points with hardware that are affected by the accomplishment of the Service Bulletin V2500-ENG-79-0088 of Number 4 Bearing Scavenge Pipe. Additionally, Tubes and Electrical Harness are required to be rerouted and Bracketry replaced to accommodate the new hardware introduced by the Service Bulletin V2500-ENG-79-0088.

(2) Evidence

The Number 4 Compartment Oil Scavenge Tube is to be rerouted. Consequently, it has been found that the proposed new routing affects various EBU Systems at their current positions.

(3) Substantiation

All hardware changes have been successfully installed and substantiated on the Rolls-Royce mock-up facility in Derby and has been the subject of satisfactory engineering analysis.

(4) Objectives

To reroute various EBU Systems and replace bracketry to accommodate changes introduced in Service Bulletin V2500-ENG-79-0088.

(5) Effect of Bulletin on:**(a) Operation**

Not affected

(b) Maintenance

Affected

(c) Overhaul

Affected

(d) Repair Scheme

Not affected

(e) Interchangeability

Affected

(f) Fits and Clearances

Not affected

D. Description

(1) The changes introduced by this Service Bulletin are as follows:

(a) The Fire Detection Harness (System A) is removed and replaced with a Longer Harness to accommodate new routing.

(b) The following tube is revised:

Applicable for Operators with Engines prior to V10059 that have not incorporated Service Bulletin V2500-ENG-72-0189.

(i) Cabin Air – 10th Stage High Pressure Bleed Valve to disconnect.

(c) The following Clipping Points are deleted:

Applicable for Operators with Engines prior to V10059 that have not incorporated Service Bulletin V2500-ENG-72-0189.

(i) CP0252, CP0927, CP0968, CP0974, CP0975, CP0976, CP1169, CP1396, CP5223, CP5723, CP5802, CP5803, CP5804, CP5820, CP5821, CP5901, CP5904, CP5918, CP5919, CP5920, CP5927, CP5928, CP5929 and CP5998.

Applicable for Operators with Engines prior to V10059 that have incorporated Service Bulletin V2500-ENG-72-0189 and Operators with Engines V10059 and on.

(ii) CP0252, CP0927, CP0968, CP0974, CP0975, CP0976, CP1169, CP1396, CP1397, CP1398, CP1399, CP5223, CP5723, CP5927, CP5928, CP5929, CP5937, CP5938, CP5939, CP5941, CP5998 and CP6078.

(d) The following Clipping Points are revised:

Applicable for Operators with Engines prior to V10059 that have not incorporated Service Bulletin V2500-ENG-72-0189.

(i) CP5766 and CP5862.

Applicable for Operators with Engines prior to V10059 that have incorporated Service Bulletin V2500-ENG-72-0189 and Operators with Engines V10059 and on.

(ii) CP6075.

(e) The following Clipping Points are introduced:

Applicable for Operators with Engines prior to V10059 that have not incorporated Service Bulletin V2500-ENG-72-0189.

- (i) CP1410, CP1423, CP1437, CP1454, CP1455, CP1464, CP1465, CP5648, CP5931, CP5940, CP6075, CP6079, CP6084, CP6088, CP6098, CP6112, CP6115, CP6117 and CP6125.

Applicable for Operators with Engines prior to V10059 that have incorporated Service Bulletin V2500-ENG-72-0189 and Operators with Engines V10059 and on.

- (ii) CP1410, CP1423, CP1437, CP1454, CP1455, CP1464, CP1465, CP6079, CP6084, CP6088, CP6112, CP6115, CP6117 and CP6125.

(f) The Fan Case Fire Detector is affected as follows:

- (i) Operators with the 7702-02 (Meggitt) Fire Detector are instructed to replace with the new 7702-04 Fire Detector which has a new profile to accommodate the new routing.
- (ii) Operators with the 7702-03 (Meggitt) Fire Detector are instructed to rework the Fire Detector and re-identify to 7702-04 as instructed in the Meggitt Service Bulletin 801-26-65. Additionally, an element is bent to remove a foul condition with CP1410.
- (iii) Operators with the 473873-1 (Kidde) Fire Detector are instructed to rework the Fire Detector and re-identify to 473873-7 as instructed in the Kidde Aerospace Service Bulletin 473873-1-26-456

(g) The following Bracket changes have been introduced to accommodate this modification:

- (i) The Core Fire Detector Bracket is removed.
- (ii) The Overheat Detector is removed.

(h) The Core Fire Detector is affected as follows:

- (i) Operators with the Meggitt Fire Detector are instructed to reverse the orientation of the Screw, Nut and Washer at three locations to remove a foul condition.
- (ii) Operators with the Kidde Fire Detector are instructed to rework the Fire Detector as instructed in the Kidde Aerospace Service Bulletin 473873-2-26-464.

E. Compliance**Category 4**

Accomplish at the first visit of a Nacelle to a maintenance base capable of compliance with the accomplishment instructions, regardless of the planned maintenance action, and before the end of October 2011.

F. Approval

The technical content of this Service Bulletin has been approved under the authority of the EASA Design Organisation Approval No. EASA.21J.031.

G. Manpower

Estimated man-hours to incorporate the intent of this Service Bulletin on each Nacelle:

(1) In Service

4.00 M/Hr

(2) At overhaul

Not Applicable

H. Material Cost and Availability

The parts to accomplish this Service Bulletin are available from IAE as Kit No's V2571273-551, V2571273-553 and V2571273-555.

Operators with units listed in Paragraph 1.A should submit a Charge purchase order for the applicable quantity of kits. The Charge purchase order must specify this Service Bulletin number and the parts listed herein.

Direct request to:

IAE Spares Division

400 Main Street

M/S 121-10

East Hartford CT06108

USA

Fax Number 860-565-4121

I. Tooling – Cost and Availability

None.

J. Industry Support Information

Not Applicable.

K. Weight and Balance**(1) Weight change**

Minus 0.94 lb (Minus 0,47 Kg)

(2) Moment arm

12.3 in (322,6 mm) rearward of Datum

(3) Datum

Nacelle Front Mount Centreline(Powerplant Station PPS 100.00)

L. Electrical Load Data

Not affected.

M. Software Accomplishment Summary

Not applicable.

N. References

- (1) Standard Practices/Processes Manual (SPP-V2500-1IA), Chapter/Sections 70-41-02.
- (2) A320/V2500-A1 A319/A320/A321/V2500-A5 Aircraft Maintenance Manual (M-V2500-1IA) Chapter/Sections 24-41-00, 24-42-00, 26-12-15, 31-60-00, 36-21-49, 70-23-11, 70-23-11, 71-00-00, 71-13-00, 71-52-41, 73-25-34, 78-30-00 and 78-32-00.
- (3) Overhaul Processes And Consumable Index (IAE PCI-V2500-1IA) Section II.
- (4) Service Bulletins V2500-NAC-26-0005, V2500-NAC-71-0285, V2500-ENG-72-0189, V2500-ENG-75-0081 and V2500-ENG-79-0088.
- (5) Meggitt Service Bulletin 801-26-65.
- (6) Kidde Service Bulletin 473873-1-26-456.
- (7) IAE engineering change EC 03VN755.

(8) Bombardier Shorts modification D1082.

(9) Kidde Service Bulletin 473873-2-26-464.

R (10) Aircraft modification No. 33112.

R (11) Airbus Service Bulletin A320-79-1002.

(12) ATA Locators - 26-12-15, 26-12-17, 36-21-49, 71-52-41 and 75-41-15.

0. Other Publications Affected

(1) A320/V2500-A1/A5 Engine Illustrated Parts Catalog, Chapter/Section 26-12-15, 26-12-17, 36-21-49, 71-52-41 and 75-41-15 will be revised.

(2) A320/V2500-A1 A319/A320/A321/V2500-A5 Engine Manual (E-V2500-1IA) Chapter/Section 72-00-40, 72-00-50 and 72-00-60 will be revised.

(3) A320/V2500-A1 A319/A320/A321/V2500-A5 Aircraft Maintenance Manual (M-V2500-1IA) Chapter/Sections 26-12-15, 26-12-17, 71-52-41, 71-52-42 and 75-41-15 will be revised.

(4) A320/V2500 A1 Powerplant Build-Up Manual (PPB-V2500-1IA) will be revised.

P. Interchangeability of Parts

(1) The parts introduced by this Service Bulletin must be fitted as a set.

2. Material information

A. Part Prices

Part Number	Qty	Estimated Unit Price US Dollars
740-5089-507	1	
7702-04	1	
473873-7	1	
745-5967-515	1	
400WSS8	14	
TA025074-03	3	
TA025074-04	7	
TA025074-05	2	
C10GT3-04	2	
C10GT3-08	1	
TA0210046FT03	2	
AS21406	1	
AS21407	1	
AS21408	4	
AS21412	1	
AS21414	1	
AS21415	1	
AS20624	21	
AS41104	2	
SP154D	4	
SP155D	1	
ST1698D48	2	
AN960C10	4	
AS48022	2	

B. Kits associated with this Bulletin:

Applicability: For each V2500-A5 Nacelle prior to N6472 to incorporate this Bulletin.

NEW PART NO.	QTY	PART TITLE	INSTR DISP
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V2571273-551	1	Kit, Rerouting of EBU Attachment 3 Systems	(A)
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Consisting of:

745-5967-515	1	Fire Detection Harness (System A)
400WSS8	3	P-Clip
TA025074-03	3	P-Clip

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NEW PART NO.	QTY	PART TITLE	INSTR DISP
TA025074-04	7	P-Clip	
TA025074-05	2	P-Clip	
C10GT3-08	1	P-Clip	
TA0210046FT03	2	P-Clip	
AS21407	1	Bolt	
AS21408	4	Bolt	
AS21412	1	Bolt	
AS21414	1	Bolt	
AS21415	1	Bolt	
AS20624	8	Nut	
SP154D	4	Washer	
SP155D	1	Washer	
ST1698D48	2	Spacer	

Applicability: Operators with Nacelle Engine Build Up Units prior to N5013 that have not incorporated Service Bulletin V2500-NAC-26-0005.

NEW PART NO.	QTY	PART TITLE	INSTR DISP
V2571273-553	1	Kit, Installation of the Fire Detector	(A)

Consisting of:

7702-4	1	Fire Detector
400WSS8	11	P-Clip
AS20624	4	Nut

Applicability: Operators with Engines prior to V10059 that have not incorporated Service Bulletin V2500-ENG-72-0189.

NEW PART NO.	QTY	PART TITLE	INSTR DISP
V2571273-555	1	Kit, Installation of the Cabin Air System	(A)

Consisting of:

740-5089-507	1	Cabin Air Tube
C10GT3-04	2	P-Clip
AS21406	1	Bolt
AS21407	1	Bolt
AS41104	1	Clip Nut

C. Parts affected by this Bulletin:

For Operators with Engines prior to V10059 that have not incorporated Service Bulletin V2500-ENG-72-0189.

26-12-15

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01100	7702-04	1	Fire Detector	7702-03	(B)(1D) (2D)(S1)
01100	473873-7	1	Fire Detector	473873-1	(B)(1D) (3D)(S1)
01102	-	1	Bolt (CP0974)	AS21408	(1D)(S1)
01104	-	1	Washer (CP0974)	SP154D	(1D)(S1)
01106	-	1	P-Clip (CP0974)	400WSS8	(1D)(S1)
01108	-	1	Nut (CP0974)	AS20624	(1D)(S1)
01110	-	1	Bolt (CP0975)	AS21408	(1D)(S1)
01112	-	1	Washer (CP0975)	SP154D	(1D)(S1)
01114	-	1	P-Clip (CP0975)	400WSS8	(1D)(S1)
01116	-	1	Nut (CP0975)	AS20624	(1D)(S1)
01118	-	1	Bolt (CP0976)	AS21408	(1D)(S1)
01120	-	1	Washer (CP0976)	SP154D	(1D)(S1)
01122	-	1	P-Clip (CP0976)	400WSS8	(1D)(S1)
01124	-	1	Nut (CP0976)	AS20624	(1D)(S1)
01233	400WSS8	1	P-Clip (CP1437)	-	(B)(S1)
01243	400WSS8	1	P-Clip (CP1423)	-	(B)(S1)
01250	AS21408	1	Bolt (CP1410)	-	(B)(S1)
01251	SP154D	1	Washer (CP1410)	-	(B)(S1)
01253	400WSS8	1	P-Clip (CP1410)	-	(B)(S1)
01257	AS20624	1	Nut (CP1410)	-	(B)(S1)

Core Fire Detector System

26-12-17

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01159	-	1	P-Clip (CP5723)	C10GT3-08	(1D)(S1)
01190	-	1	Fire Detector Bracket	740-5287 -501	(S1)
01192	-	1	Bolt (CP5928)	AS21418	(1D)(S1)
01194	-	1	Washer (CP5928)	SP155D	(1D)(S1)
01196	-	1	Nut (CP5928)	AS20624	(1D)(S1)
01198	-	1	Bolt (CP5928)	AS21418	(1D)(S1)
01200	-	1	Spacer (CP5928)	ST1698D50	(1D)(S1)
01202	-	1	Spacer (CP5928)	ST1698D48	(1D)(S1)

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01204	-	1	P-Clip (CP5928)	TA0250 74-03	(1D)(S1)
01206	-	1	Washer (CP5928)	SP155D	(1D)(S1)
01208	-	1	Nut (CP5928)	AS20624	(1D)(S1)
01210	-	1	Bolt (CP5929)	AS21418	(1D)(S1)
01212	-	1	Washer (CP5929)	SP155D	(1D)(S1)
01214	-	1	Nut (CP5929)	AS20624	(1D)(S1)
01216	400WSS8	1	Bolt (CP5929)	AS21411	(1D)(S1)
01217	-	1	Bolt (CP5929)	ST1698D47	(1D)(S1)
01218	-	1	Washer (CP5929)	SP155D	(1D)(S1)
01220	-	1	Nut (CP5929)	AS20624	(1D)(S1)
01230	AS21408	1	Bolt (CP6115)	-	(B)(S1)
01231	SP155D	1	Washer (CP6115)	-	(B)(S1)
01233	C10GT3-08	1	P-Clip (CP6115)	-	(B)(S1)
01237	AS20624	1	Nut (CP6115)	-	(B)(S1)
01240	AS48022	1	Bolt	-	(B)(E)(S1)
01241	SP155D	1	Washer	-	(B)(S1)
01246	AN960C10	2	Washer	-	(B)(E)(S1)
01247	AS20624	1	Nut	-	(B)(S1)
01250	AS48022	1	Bolt	-	(B)(E)(S1)
01251	SP155D	1	Washer	-	(B)(S1)
01256	AN960C10	2	Washer	-	(B)(E)(S1)
01257	AS20624	1	Nut	-	(B)(S1)

36-21-49

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01100	740-5089 -507	1	Cabin Air Tube	740-5089 -501	(B)(C) (S1)
01133	AS21407	1	Bolt (CP5862)	AS21406	(1D)(S1)
01137	C10GT3-04	1	P-Clip (CP5862)	TA0250 22FT04	(1D)(S1)
01150	AS21406	1	Bolt (CP5931)	-	(B)(S1)
01154	C10GT3-04	1	P-Clip (CP5931)	-	(B)(S1)
01158	AS41104	1	Clip Nut (CP5931)	-	(B)(S1)

71-52-41

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01005	745-5967 -515	1	Fire Detection Harness (System A)	745-5967 -513	(B)(C) (1D)(S1)

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01118	-	1	Bolt (CP5904)	AS21408	(1D)(S1)
01120	-	1	Washer (CP5904)	SP154D	(1D)(S1)
01123	-	1	P-Clip (CP5904)	TA0250 74-04	(1D)(S1)
01125	-	1	Nut (CP5904)	AS20624	(1D)(S1)
01128	-	1	Bolt (CP5918)	AS21407	(1D)(S1)
01130	-	1	Washer (CP5918)	SP154D	(1D)(S1)
01131	-	1	P-Clip (CP5918)	TA0250 74-03	(1D)(S1)
01133	-	1	Nut (CP5918)	AS20624	(1D)(S1)
01134	-	1	Bolt (CP5901)	AS21415	(1D)(S1)
01135	-	1	Spacer (CP5901)	ST1698D48	(1D)(S1)
01136	-	1	Washer (CP5901)	SP154D	(1D)(S1)
01139	-	1	P-Clip (CP5901)	TA0250 74-03	(1D)(S1)
01141	-	1	Nut (CP5901)	AS20624	(1D)(S1)
01142	400WSS8	1	Bolt (CP5804)	AS21420	(1D)(S1)
01143	-	1	Washer (CP5804)	SP154D	(1D)(S1)
01144	-	1	Spacer (CP5804)	ST1698D50	(1D)(S1)
01145	-	1	P-Clip (CP5804)	TA0250 74-03	(1D)(S1)
01147	-	1	Nut (CP5804)	AS20624	(1D)(S1)
01150	-	1	Bolt (CP5821)	AS21407	(1D)(S1)
01152	-	1	Washer (CP5821)	SP154D	(1D)(S1)
01155	-	1	P-Clip (CP5821)	TA0250 74-03	(1D)(S1)
01157	-	1	Clip Nut (CP5821)	AS41104	(1D)(S1)
01158	-	1	Bolt (CP5820)	AS21407	(1D)(S1)
01160	-	1	Washer (CP5820)	SP154D	(1D)(S1)
01163	-	1	P-Clip (CP5820)	TA0250 74-03	(1D)(S1)
01165	-	1	Clip Nut (CP5820)	AS41104	(1D)(S1)
01215	-	1	Bolt (CP5919)	AS21407	(1D)(S1)
01217	-	1	P-Clip (CP5919)	TA0250 74-03	(1D)(S1)
01219	-	1	P-Clip (CP5919)	400WSS4	(1D)(S1)
01220	-	1	Washer (CP5919)	SP154D	(1D)(S1)
01223	-	1	Nut (CP5919)	AS20624	(1D)(S1)
01225	-	1	Bolt CP5920)	AS21407	(1D)(S1)
01227	-	1	P-Clip (CP5920)	TA0250 74-03	(1D)(S1)
01229	-	1	P-Clip (CP5920)	400WSS4	(1D)(S1)
01230	-	1	Washer (CP5920)	SP154D	(1D)(S1)
01233	-	1	Nut (CP5920)	AS20624	(1D)(S1)
01244	-	1	Bolt (CP5927)	AS21408	(1D)(S1)
01246	-	1	Washer (CP5927)	SP154D	(1D)(S1)
01248	-	1	Nut (CP5927)	AS20624	(1D)(S1)

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FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01250	—	1	P-Clip (CP5927)	TA0250 74-03	(1D)(S1)
01270	TA0250 74-05	1	P-Clip (CP5648)	—	(B)(S1)
01275	TA0250 74-03	1	P-Clip (CP5766)	—	(B)(S1)
01300	AS21415	1	Bolt (CP5940)	—	(B)(S1)
01303	ST1698D48	1	Spacer (CP5940)	—	(B)(S1)
01305	TA0250 74-03	1	P-Clip (CP5940)	—	(B)(S1)
01307	AS20624	1	Nut (CP5940)	—	(B)(S1)
01320	TA0250 74-03	1	P-Clip (CP6098)	—	(B)(S1)
01443	TA0250 74-04	1	P Clip (CP6075)	—	(B)(S1)
01450	AS21414	1	Bolt (CP6112)	—	(B)(S1)
01451	SP154D	1	Washer (CP6112)	—	(B)(S1)
01453	TA0250 74-04	1	P-Clip (CP6112)	—	(B)(S1)
01455	ST1698D48	1	Spacer (CP6112)	—	(B)(S1)
01457	AS20624	1	Nut (CP6112)	—	(B)(S1)
01463	TA0250 74-04	1	P-Clip (CP6079)	—	(B)(S1)
01473	TA0250 74-04	1	P-Clip (CP6084)	—	(B)(S1)
01483	TA0250 74-04	1	P-Clip (CP6088)	—	(B)(S1)

71-71-48

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
02125	-	1	Washer (CP0252)	SP154D	(D)(1D) (S1)
02126	-	1	P-Clip (CP0252)	400WSS4	(D)(1D) (S1)
02127	-	1	Spacer (CP0252)	ST1698D47	(D)(1D) (S1)
02132	-	1	Nut (CP0252)	AS20624	(D)(1D) (S1)
02145	-	1	Bolt (CP0927)	AS21411	(D)(1D) (S1)
02146	-	1	Washer (CP0927)	SP154D	(D)(1D) (S1)
02148	-	1	P-Clip (CP0927)	400WSS4	(D)(1D) (S1)
02152	-	1	Spacer (CP0927)	ST1698D48	(D)(1D) (S1)
02155	-	1	Nut (CP0927)	AS20624	(D)(1D) (S1)
02164	400WSS4	1	P-Clip (CP1465)	-	(B)(D) (S1)
03400	740-5688 -513	1	Drain Tube	745-5688 -501	(B)(C) (D)(S1)
03425	-	1	Bolt (CP1169)	AS21408	(D)(1D) (S1)
03427	-	1	Washer (CP1169)	SP154D	(D)(1D) (S1)
03429	-	2	P-Clip (CP1169)	400WSS12	(D)(1D) (S1)
03431	-	2	P-Clip (CP1169)	400WSS4	(D)(1D) (S1)
03433	-	1	Nut (CP1169)	AS20624	(D)(1D) (S1)
03435	-	1	Bolt (CP0968)	AS21408	(D)(1D) (S1)
03443	-	2	P-Clip (CP0968)	400WSS4	(D)(1D) (S1)
03446	-	1	Washer (CP0968)	SP154D	(D)(1D) (S1)
03449	-	1	Nut (CP0968)	AS20624	(D)(1D) (S1)
03455	-	1	Nut (CP1396)	AS20624	(D)(1D) (S1)
03458	-	1	Washer (CP1396)	SP154D	(D)(1D) (S1)

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FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
03461	-	1	P-Clip (CP1396)	400WSS12	(D)(1D) (S1)
03464	-	1	Spacer (CP1396)	ST1698D47	(D)(1D) (S1)
03467	-	1	P-Clip (CP1396)	400WSS4	(D)(1D) (S1)
03470	-	1	Bolt (CP1396)	AS21411	(D)(1D) (S1)
03480	AS21408	1	Bolt (CP1455)	-	(B)(D) (S1)
03481	SP154D	1	Washer (CP1455)	-	(B)(D) (S1)
03483	400WSS4	1	P-Clip (CP1455)	-	(B)(D) (S1)
03487	AS20624	1	Nut (CP1455)	-	(B)(D) (S1)
03490	AS21408	1	Bolt (CP1454)	-	(B)(D) (S1)
03491	SP154D	1	Washer (CP1454)	-	(B)(D) (S1)
03493	400WSS4	1	P-Clip (CP1454)	-	(B)(D) (S1)
03497	AS20624	1	Nut (CP1454)	-	(B)(D) (S1)

Overheat Detector System

75-41-15

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01124	-	1	Bolt (CP5223)	AS21408	(1D)(S1)
01125	-	1	P-Clip (CP5223)	TA02100 46FT03	(1D)(S1)
01127	-	1	Washer (CP5223)	SP154D	(1D)(S1)
01128	-	1	Nut (CP5223)	AS20624	(1D)(S1)
01130	-	1	Bolt (CP5998)	AS21408	(1D)(S1)
01132	-	1	P-Clip (CP5998)	TA02100 46FT03	(1D)(S1)
01135	-	1	P-Clip (CP5998)	TA02100 46FT08	(1D)(S1)
01140	-	1	Nut (CP5998)	AS20624	(1D)(S1)
01150	AS21408	1	Bolt (CP5918)	-	(B)(S1)
01151	SP154D	1	Washer (CP6117)	-	(B)(S1)

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01153	TA02100 46FT03	1	P-Clip (CP6117)	—	(B)(S1)
01157	AS20624	1	Nut (CP6117)	—	(B)(S1)
01160	AS21408	1	Bolt (CP6125)	—	(B)(S1)
01161	SP154D	1	Washer (CP6125)	—	(B)(S1)
01163	TA02100 46FT03	1	P-Clip (CP6125)	—	(B)(S1)
01167	AS20624	1	Nut (CP6125)	—	(B)(S1)
05015	—	2	Bolt (CP5802 and CP5803)	AS21408	(1D)(S1)
05020	—	2	Washer (CP5802 and CP5803)	SP154D	(1D)(S1)
05025	—	2	Nut (CP5802 and CP5803)	AS20624	(1D)(S1)

79-22-49

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
05010	—	1	Overheat Detector Bracket	740-5081 -507	(1D)(S1)
12169	400WSS4	1	P-Clip (CP1464)	—	(B)(D) (S1)

D. Parts affected by this Bulletin:

For Operators with Engines prior to V10059 that have incorporated Service Bulletin V2500-ENG-72-0189 and Operators with Engines V10059 and on.

26-12-15

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01100	7702-04	1	Fire Detector	7702-03	(B)(1D) (2D)(S1)
01100	473873-7	1	Fire Detector	473873-1	(B)(1D) (3D)(S1)
01102	—	1	Bolt (CP0974)	AS21408	(1D)(S1)
01104	—	1	Washer (CP0974)	SP154D	(1D)(S1)
01106	—	1	P-Clip (CP0974)	400WSS8	(1D)(S1)
01108	—	1	Nut (CP0974)	AS20624	(1D)(S1)
01110	—	1	Bolt (CP0975)	AS21408	(1D)(S1)
01112	—	1	Washer (CP0975)	SP154D	(1D)(S1)
01114	—	1	P-Clip (CP0975)	400WSS8	(1D)(S1)
01116	—	1	Nut (CP0975)	AS20624	(1D)(S1)

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FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01118	—	1	Bolt (CP0976)	AS21408	(1D)(S1)
01120	—	1	Washer (CP0976)	SP154D	(1D)(S1)
01122	—	1	P-Clip (CP0976)	400WSS8	(1D)(S1)
01124	—	1	Nut (CP0976)	AS20624	(1D)(S1)
01233	400WSS8	1	P-Clip (CP1437)	—	(B)(S1)
01243	400WSS8	1	P-Clip (CP1423)	—	(B)(S1)
01250	AS21408	1	Bolt (CP1410)	—	(B)(S1)
01251	SP154D	1	Washer (CP1410)	—	(B)(S1)
01253	400WSS8	1	P-Clip (CP1410)	—	(B)(S1)
01257	AS20624	1	Nut (CP1410)	—	(B)(S1)

26-12-17

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01190	—	1	Fire Detector Bracket	740-5287 -501	(1D)(S1)
01192	—	1	Bolt (CP5928)	AS21418	(1D)(S1)
01194	—	1	Washer (CP5928)	SP155D	(1D)(S1)
01196	—	1	Nut (CP5928)	AS20624	(1D)(S1)
01198	—	1	Bolt (CP5928)	AS21418	(1D)(S1)
01200	—	1	Spacer (CP5928)	ST1698D50	(1D)(S1)
01202	—	1	Spacer (CP5928)	ST1698D48	(1D)(S1)
01204	—	1	P-Clip (CP5928)	TA0250 74-03	(1D)(S1)
01206	—	1	Washer (CP5928)	SP155D	(1D)(S1)
01208	—	1	Nut (CP5928)	AS20624	(1D)(S1)
01210	—	1	Bolt (CP5929)	AS21418	(1D)(S1)
01212	—	1	Washer (CP5929)	SP155D	(1D)(S1)
01214	—	1	Nut (CP5929)	AS20624	(1D)(S1)
01216	400WSS8	1	Bolt (CP5929)	AS21411	(1D)(S1)
01217	—	1	Bolt (CP5929)	ST1698D47	(1D)(S1)
01218	—	1	Washer (CP5929)	SP155D	(1D)(S1)
01220	—	1	Nut (CP5929)	AS20624	(1D)(S1)

Core Fire Detector
System

01159	—	1	P-Clip (CP5723)	C10GT3-08	(1D)(S1)
01230	AS21408	1	Bolt (CP6115)	—	(B)(S1)
01231	SP155D	1	Washer (CP6115)	—	(B)(S1)
01233	C10GT3-08	1	P-Clip (CP6115)	—	(B)(S1)
01237	AS20624	1	Nut (CP6115)	—	(B)(S1)
01240	AS48022	1	Bolt	—	(B)(E)(S1)
01241	SP155D	1	Washer	—	(B)(S1)

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01246	AN960C10	2	Washer	—	(B)(E)(S1)
01247	AS20624	1	Nut	—	(B)(S1)
01250	AS48022	1	Bolt	—	(B)(S1)
01251	SP155D	1	Washer	—	(B)(S1)
01256	AN960C10	2	Washer	—	(B)(E)(S1)
01257	AS20624	1	Nut	—	(B)(S1)

71-52-41

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01005	745-5967 -515	1	Fire Detection Harness (System A)	745-5967 -513	(B)(C) (1D)(S1)
01294	—	1	Bolt (CP5939)	AS21407	(1D)(S1)
01297	—	1	P-Clip (CP5939)	TA0250 74-03	(1D)(S1)
01299	—	1	Nut (CP5939)	AS20624	(1D)(S1)
01287	—	1	Bolt (CP5938)	AS21407	(D)(1D) (S1)
01290	—	1	P-Clip (CP5938)	TA0250 74-03	(D)(1D) (S1)
01292	—	1	Nut (CP5938)	AS20624	(D)(1D) (S1)
01280	—	1	Bolt (CP5937)	AS21407	(D)(1D) (S1)
01283	—	1	P-Clip (CP5937)	TA0250 74-06	(D)(1D) (S1)
01285	—	1	Nut (CP5937)	AS20624	(D)(1D) (S1)
01308	—	1	Bolt (CP5941)	AS21407	(1D)(S1)
01311	—	1	P-Clip (CP5941)	TA0250 074-03	(1D)(S1)
01313	—	1	Nut (CP5941)	AS20624	(1D)(S1)
01315	—	1	P-Clip (CP6078)	TA0250 74-03	(1D)(S1)
01244	—	1	Bolt (CP5927)	AS21408	(1D)(S1)
01246	—	1	Washer (CP5927)	SP154D	(1D)(S1)
01248	—	1	Nut (CP5927)	AS20624	(1D)(S1)
01250	—	1	P-Clip (CP5927)	TA0250 74-03	(1D)(S1)
01443	TA0250 74-04	1	P-Clip (CP6075)	—	(B)(S1)
01450	AS21414	1	Bolt (CP6112)	—	(B)(S1)
01451	SP154D	1	Washer (CP6112)	—	(B)(S1)

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FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01453	TA0250 74-04	1	P-Clip (CP6112)	-	(B)(S1)
01455	ST1698D48	1	Spacer (CP6112)	-	(B)(S1)
01457	AS20624	1	Nut (CP6112)	-	(B)(S1)
01463	TA0250 74-04	1	P-Clip (CP6079)	-	(B)(S1)
01473	TA0250 74-04	1	P-Clip (CP6084)	-	(B)(S1)
01483	TA0250 74-04	1	P-Clip (CP6088)	-	(B)(S1)

71-71-48

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
02125	-	1	Washer (CP0252)	SP154D	(D)(1D) (S1)
02126	-	1	P-Clip (CP0252)	400WSS4	(D)(1D) (S1)
02127	-	1	Spacer (CP0252)	ST1698D47	(D)(1D) (S1)
02132	-	1	Nut (CP0252)	AS20624	(D)(1D) (S1)
02145	-	1	Bolt (CP0927)	AS21414	(D)(1D) (S1)
02146	-	1	Washer (CP0927)	SP154D	(D)(1D) (S1)
02148	-	1	P-Clip (CP0927)	400WSS4	(D)(1D) (S1)
02152	-	1	Spacer (CP0927)	ST1698D48	(D)(1D) (S1)
02155	-	1	Nut (CP0927)	AS20624	(D)(1D) (S1)
02164	400WSS4	1	P-Clip (CP1465)	-	(B)(D) (S1)
03400	740-5688 -513	1	Drain Tube	745-5688 -501	(B)(C) (D)(S1)
03425	-	1	Bolt (CP1169)	AS21408	(D)(1D) (S1)
03427	-	1	Washer (CP1169)	SP154D	(D)(1D) (S1)
03429	-	2	P-Clip (CP1169)	400WSS12	(D)(1D) (S1)
03431	-	2	P-Clip (CP1169)	400WSS4	(D)(1D) (S1)

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
03433	-	1	Nut (CP1169)	AS20624	(D)(1D) (S1)
03435	-	1	Bolt (CP0968)	AS21408	(D)(1D) (S1)
03443	-	1	P-Clip (CP0968)	400WSS4	(D)(1D) (S1)
03446	-	1	Washer (CP0968)	SP154D	(D)(1D) (S1)
03449	-	1	Nut (CP0968)	AS20624	(D)(1D) (S1)
03455	-	1	Nut (CP1396)	AS20624	(D)(1D) (S1)
03458	-	1	Washer (CP1396)	SP154D	(D)(1D) (S1)
03461	-	1	P-Clip (CP1396)	400WSS12	(D)(1D) (S1)
03464	-	1	Spacer (CP1396)	ST1698D47	(D)(1D) (S1)
03467	-	1	P-Clip (CP1396)	400WSS4	(D)(1D) (S1)
03470	-	1	Bolt (CP1396)	AS21411	(D)(1D) (S1)
03480	AS21408	1	Bolt (CP1455)	-	(B)(D) (S1)
03481	SP154D	1	Washer (CP1455)	-	(B)(D) (S1)
03483	400WSS4	1	P-Clip (CP1455)	-	(B)(D) (S1)
03487	AS20624	1	Nut (CP1455)	-	(B)(D) (S1)
03490	AS21408	1	Bolt (CP1454)	-	(B)(D) (S1)
03491	SP154D	1	Washer (CP1454)	-	(B)(D) (S1)
03493	400WSS4	1	P-Clip (CP1454)	-	(B)(D) (S1)
03497	AS20624	1	Nut (CP1454)	-	(B)(D) (S1)

73-11-49

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
08144	-	1	P-Clip (CP1398)	400WSS12	(D)(1D) (S1)

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
10576	-	1	P-Clip (CP1399)	400WSS8	(D)(1D) (S1)
20576	-	1	P-Clip (CP1397)	400WSS8	(D)(1D) (S1)

Overheat Detector System

75-41-15

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01124	-	1	Bolt (CP5223)	AS21412	(1D)(S1)
01125	-	1	P-Clip (CP5223)	TA02100 46FT03	(1D)(S1)
01126	-	1	Spacer (CP5223)	ST1698D47	(1D)(S1)
01127	-	1	Washer (CP5223)	SP154D	(1D)(S1)
01128	-	1	Nut (CP5223)	AS20624	(1D)(S1)
01130	-	1	Bolt (CP5998)	AS21411	(1D)(S1)
01131	-	1	Spacer (CP5998)	ST1698D47	(1D)(S1)
01132	-	1	P-Clip (CP5998)	TA02100 46FT03	(1D)(S1)
01135	-	1	P-Clip (CP5998)	TA02100 46FT08	(1D)(S1)
01137	-	1	Washer (CP5998)	SP154D	(1D)(S1)
01140	-	1	Nut (CP5998)	AS20624	(1D)(S1)
01150	AS21408	1	Bolt (CP5918)	-	(B)(S1)
01151	SP154D	1	Washer (CP6117)	-	(B)(S1)
01153	TA02100 46FT03	1	P-Clip (CP6117)	-	(B)(S1)
01157	AS20624	1	Nut (CP6117)	-	(B)(S1)
01160	AS21408	1	Bolt (CP6125)	-	(B)(S1)
01161	SP154D	1	Washer (CP6125)	-	(B)(S1)
01163	TA02100 46FT03	1	P-Clip (CP6125)	-	(B)(S1)
01167	AS20624	1	Nut (CP6125)	-	(B)(S1)

79-22-49

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01566	-	1	Overheat Detector Bracket	745-5081 -501	(1D)(S1)
12169	400WSS4	1	P-Clip (CP1464)	-	(B)(D) (S1)

E. Instructions Disposition Codes:

(A) Kit is currently available.

(B) Parts are currently available.

(C) Old and new parts are not physically interchangeable.

(D) For ease of installation, parts coded (D) are removed / installed and, if required, kitted in Service Bulletin V2500-ENG-79-0088.

(E) Part to be supplied as a single line item. Part required to accomplish Service Bulletin V2500-NAC-71-0273.

(1D) Old part number, if deemed serviceable, may be used up on other applications.

(2D) Old part number may be reworked and reidentified to new part number as instructed in Meggitt Service Bulletin 801-26-65.

(3D) Old part number may be reworked and reidentified to new part number as instructed in Kidde Service Bulletin 473873-1-26-456.

(S1) New parts coded (S1) must replace old parts coded (S1) as a complete set.

F. Materials required to incorporate this Bulletin.

CoMat	02-099	Lint free cloth
CoMat	02-126	Lockwire
CoMat	10-031	Anti-galling compound
CoMat	10-039 or 10-040	Engine Oil

NOTE: To identify the consumable materials, refer to the Overhaul Processes and Consumable Index PCI-V2500-11A.

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3. Accomplishment Instructions

A. Pre-requisite Instructions

WARNING

DO NOT TOUCH THE ENGINE COMPONENTS FOR A SHORT TIME AFTER THE ENGINE IS SHUT DOWN. THE COMPONENTS STAY HOT AND CAN CAUSE INJURY.

- (1) Energise the Aircraft Electrical Circuits as instructed in the Aircraft Maintenance Manual, Task 24-41-00-861-002.
- (2) Energise the Ground Service Network as instructed in the Aircraft Maintenance Manual, Task 24-42-00-861-001.
- (3) Open, safety and tag the Circuit Breakers as instructed in the Aircraft Maintenance Manual, Task 26-12-15-865-056.
- (4) Obey the Safety Precautions as instructed in the Aircraft Maintenance Manual, Task 36-21-49-941-059-A.
- (5) Deactivate the Thrust Reverser Hydraulic Control Unit 4101KS as instructed in the Aircraft Maintenance Manual, Task 78-30-00-040-012.
- (6) Open the Fan Cowl Doors as instructed in the Aircraft Maintenance Manual, Task 71-13-00-010-010.
- (7) Open the Thrust Reverser Halves as instructed in the Aircraft Maintenance Manual, Task 78-32-00-010-010.

B. Rework Instructions

Part A – Applicable for Operators with Engines prior to V10059 that have not incorporated Service Bulletin V2500-ENG-72-0189.

NOTE: When you remove the Fire Detection Harness for Clipping Points CP5913 thru CP5905 (for pre Service Bulletin V2500-ENG-75-0081) or CP5990 thru CP5747 (for post Service Bulletin V2500-ENG-75-0081), place attaching parts in a bag and label.

- (1) Remove the 745-5967 Fire Detection Harness (System A) as instructed in the Aircraft Maintenance Manual, Task 71-52-41-000-010.

NOTE: To secure the 745-5493 Fire Detection Harness to the engine and prevent damage, reclip the 745-5493 Fire Detection Harness at CP5821, CP5820, CP5222, CP5928 and CP5927. Refer to Service Bulletin V2500-NAC-79-0088.

- (2) Reclip the 745-5493 Fire Detection Harness at clipping points CP5821, CP5820, CP5222, CP5928 and CP5927.



- (3) Remove the 740-5089-501 Cabin Air Tube.

PROCEDURE

RELATED DATA

- (a) Clipping Point CP5862 – Remove the AS21406 Bolt, the AS41104 Clip Nut and the TA025022FT04 P-Clip. Refer to Figure 1.
- (b) Cut and safety the Lockwire which safeties the Tube Connections.
- (c) Disconnect the 6A5391 Tube from the 740-5089-501 Cabin Air Tube. When you remove the Cabin Air Tube from the Nacelle put the applicable covers/ caps/plugs on to the vacant Engine components.
- (d) Disconnect the 740-5089-501 Cabin Air Tube from the 740-5644 Tube.
- (e) Disconnect the 740-5089-501 Cabin Air Tube from the High Pressure Bleed Valve.
- (f) Remove the 740-5089-501 Cabin Air Tube from the Nacelle.
- (4) Remove the 7702-02 Fire Detector.

NOTE: This instruction is applicable for Operators with Nacelle Engine Buildup Units prior to N5013 that have not incorporated Service Bulletin V2500-NAC-26-0005.

PROCEDURE

RELATED DATA

- (a) Remove the 7702-02 Fire Detector. Refer to the Aircraft Maintenance Manual, Task 26-12-15-000-041.
- (5) Rework the 7703-03 (Meggitt) or 473873-1 (Kidde) Fire Detector.

These instructions are applicable for Operators with Nacelle Engine Buildup Units prior to N5013 that have incorporated Service Bulletin V2500-NAC-26-0005 and Operators with Nacelle Engine Buildup Units N5013 and on.

PROCEDURE

RELATED DATA

- (a) Remove the 7702-03 or 473873-1 Fire Detector. Refer to the Aircraft Maintenance Manual, Task 26-12-15-000-041.

- | | |
|---|---|
| <p>(b) Rework the 7702-03 Fire Detector and re-identify to 7702-04.</p> <p>(c) Rework the 473873-1 Fire Detector and re-identify to 473873-7.</p> | <p>Refer to the Meggitt Service Bulletin 801-26-65.</p> <p>Refer to the Kidde Service Bulletin 473873-1-26-456.</p> |
|---|---|
- (6) Remove the RP162-02 Overheat Detector.

PROCEDURE

RELATED DATA

- | | |
|--|---------------------------|
| <p>(a) Clipping Point CP5223 - Remove the AS20624 Nut, the SP154D Washer, AS21408 Bolt, the TA0210046FT03 P-Clip and the TA025022FT12 P-Clip.</p> <p>(b) Clipping Point CP5998 - Remove the AS20624 Nut, the SP154D Washer, the AS21408 Bolt, the TA0210046FT03 P-Clip and the TA0210046FT08 P-Clip.</p> <p>(c) Remove the four AS8623A Nuts, the four SP155A Washers and the four A117-1-A Bolts to release the RP162-02 Overheat Detector from the 740-5081 Bracket.</p> <p>(d) Remove the RP162-02 Overheat Detector from the Nacelle and retain.</p> | <p>Refer to Figure 2.</p> |
|--|---------------------------|
- (7) Remove the 740-5081 Overheat Detector Bracket.

PROCEDURE

RELATED DATA

- | | |
|---|---------------------------|
| <p>(a) Clipping Points CP5802 and CP5803 - Remove the AS20624 Nut, the SP154D Washer and the AS21408 Bolt to release the 740-5081 Bracket from the 6A2120 Raceway.</p> <p>(b) Remove the 740-5081 Overheat Detector Bracket from the Nacelle.</p> | <p>Refer to Figure 2.</p> |
|---|---------------------------|

- (8) Remove the 740-5287-501 Fire Detector Bracket.

PROCEDURE

RELATED DATA

- (a) Remove the two AS20624 Nuts, the two SP155D Washers and the two AS21418 Bolts to release the Fire Detector Responders from the 740-5287-501 Fire Detector Bracket. Retain the Bolts and Washers. Refer to Figure 4.
- (b) Clipping Point CP5928 – Remove the AS20624 Nut, the SP155D Washer, the ST1698D48 Spacer, the ST1698D50 Spacer, the AS21428 Bolt and the TA025074-03 P-Clip.
- (c) Clipping Point CP5929 – Remove the AS20624 Nut, the SP155D Washer, the ST1698D47 Spacer and the AS21411 Bolt to release the 740-5287-501 Bracket from the 6A5367 Pipe.
- (d) Remove the 740-5287-501 Bracket from the Nacelle.
- (9) At Clipping Point CP5723 remove the C10GT3-08 P-Clip. Refer to Figure 4.
- NOTE:** The instructions for the removal of Clipping Points CP0252 and CP0927 may be for reference only. Clipping Points may be removed as part of Service Bulletin V2500-ENG-79-0088.
- (10) At Clipping Point CP0252, remove the AS20624 Nut, the SP154D Washer, the ST1698D47 Spacer, the AS21411 Bolt and the 400WSS4 P-Clip from the 740-5261 Drain Tube. Refer to Figure 5.
- (11) At Clipping Point CP0927, remove the AS20624 Nut, the SP154D Washer, the ST1698D47 Spacer, the AS21411 Bolt and the 400WSS4 P-Clip.
- NOTE:** The instructions for the installation of Clipping Points CP1465 and CP1464 may be for reference only. Hardware for Clipping Points are kitted and may be installed as part of Service Bulletin V2500-ENG-79-0088.
- (12) At Clipping Point CP1465, fit the 400WSS4 P-Clip to the 740-5261 Drain Tube and attach to the 6A6237 Raceway. Refer to Figure 6.

- (13) At Clipping Point CP1464, fit the 400WSS4 P-Clip to the 740-5793-513 Oil Tube and attach to the 6A6237 Raceway, the EEC Harness and the 740-5261 Drain Tube.

NOTE: Unless otherwise instructed, do not tighten or torque the Tubes fittings or attaching hardware until all the tubes and attaching hardware are installed in the correct position.

- (14) Install the 740-5089-507 Cabin Air Tube.

CAUTION

FAILURE TO PROPERLY APPLY AND CURE THE ANTI-GALLING COMPOUND CAN RESULT IN DAMAGE TO THE TUBE END FITTINGS.

PROCEDURE

RELATED DATA

- | | |
|---|---|
| (a) Apply CoMat 10-031 Anti-Galling Compound to the threads of the new 740-5089-507 Cabin Air Tube. | Remove the applicable covers/caps/plugs from the Engine components. |
| (b) Connect the 740-5089-507 Cabin Air Tube to the 740-5644 Tube. | Refer to Figure 7. |
| (c) Connect the 740-5089-507 Cabin Air Tube to the High Pressure Bleed Valve. | |
| (d) Connect the 6A5391 Tube to the 740-5089-507 Cabin Air Tube. | |
| (e) Clipping Point CP5862 - Attach the 740-5089-507 Cabin Air Tube to the 740-5073-505 Bracket with the C10GT3-04 P-Clip, the AS41104 Clip Nut, and the AS21407 Bolt. | Lubricate the Bolts with Engine Oil CoMat 10-039 or CoMat 10-040. |
| (f) Clipping Point CP5931 - Attach the 740-5089-507 Cabin Air Tube to the 745-5069-501 Bracket with the C10GT3-04 P-Clip, the AS41104 Clip Nut and the AS21406 Bolt. | Refer to Service Bulletin V2500-ENG-79-0088 for the installation of the 745-5069-501 Bracket. |

NOTE: Make sure that the Tube has a minimum clearance of 0.25 in. (6,35 mm) with adjacent components and structure.



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| (g) Torque the end fittings on the 740-5089-507 Cabin Air Tube to 135-145 lbfin (15-16 Nm). | Torque all Tube fittings as instructed in the Standard Practices/Processes Manual, chapter 70-41-02. |
| (h) Torque the end fitting on the 6A5391 Tube to 159-177 lbfin (18-20 Nm). | |
| (i) Clipping Points CP5862 and CP5931 – Torque the Bolts to 36 – 45 lbfin (4 – 5 Nm). | Torque the Bolts as instructed in the Aircraft Maintenance Manual, chapter 70-23-11. |
| (j) Safety the Tube with CoMat 02-126 Lockwire. | Safety the Drain Tubes as instructed in the Aircraft Maintenance Manual, chapter 70-40-11. |
- (15) Installation of the 7702-04 (Meggitt) or 473873-7 (Kidde) Fire Detector.
- NOTE:** Make sure that the Fire Detector has a minimum clearance of 0.25 in. (6,35 mm) with adjacent pipes and structure.

PROCEDURE

RELATED DATA

- | | |
|---|--|
| (a) Partially install the 7702-04 or 473873-7 Fire Detector to the post Service Bulletin V2500-NAC-26-0005 Configuration. Do not install Clipping Points CP0974, CP0975 and CP0976. | Refer to the Aircraft Maintenance Manual, Task 26-12-15-400-041. Do not tighten or torque the attaching hardware until installation is complete. |
| (b) Clipping Point CP1437 – Attach the Fire Detector to the 6A6228 Tube, the 6A6204 Tube and the 6A6217 Tube with the 400WSS8 P-Clip. | Refer to Figure 8. |
| (c) Clipping Point CP1423 – Attach the Fire Detector to the 6A8234 Bracket and the 6A6212 Tube with the 400WSS8 P-Clip. | |

(d) Clipping Point CP1410 - If necessary, carefully bend the element on 7702-04 (Meggitt) Fire Detector to a minimum Radius of 0.5 in. (12,7 mm) to prevent a foul condition with CP1410. Make sure that no creases or kinks are introduced to the element.

This step is applicable to operators with 7702-04 (Meggitt) Fire Detectors only.

Refer to Figure 8 view B.

(e) Clipping Point CP1410 - Attach the Fire Detector to the 6A6206 Tube with the 400WSS8 P-Clip, the AS21408 Bolt the SP154D Washer and the AS20624 Nut.

Refer to Figure 8.

Lubricate the Bolts with Engine Oil CoMat 10-039 or CoMat 10-040.

NOTE: Make sure that the Fire Detector has a minimum clearance of 0.25 in. (6,35 mm) with adjacent pipes and structure.

(f) Clipping Points CP1183, CP1184, CP0955, CP0956, CP0957, CP0940, CP0941, CP0959, CP0960, CP0961, CP0962, CP1437, CP1423 and CP1410. Torque the AS20624 Nuts to 36 - 45 lbfin (4 - 5 Nm).

Torque the Nuts as instructed in the Aircraft Maintenance Manual, chapter 70-23-11.

R

(16) Modification of Core Fire Detector routing.

PROCEDURE

RELATED DATA

(a) Clipping Point CP6115 - Install the Fire Detector to the 6A6196 Tube with the C10GT3-08 P-Clip the AS21408 Bolt, the SP155D Washer and the AS20624 Nut.

Refer to Figure 9.

Lubricate the Bolts with Engine Oil CoMat 10-039 or CoMat 10-040.

NOTE: Make sure that the Fire Detector has a minimum clearance of 0.25 in. (6,35 mm) with adjacent components and structure.

(b) Torque the AS20624 Nut to 36 - 45 lbfin (4 - 5 Nm).

Torque the Nuts as instructed in the Aircraft Maintenance Manual, chapter 70-23-11.

R

(17) Install the RP162-02 Overheat Detector.

PROCEDURE

RELATED DATA

(a) Install the RP162-02 Overheat Detector to the 740-5290 bracket with the four A117-1A Bolts, the four SP155A Washers and the four AS8623A Nuts.

Refer to Figure 10.
Lubricate the Bolts with Engine Oil CoMat 10-039 or CoMat 10-040.

(b) Torque the AS8623A Nuts to 6 lbfin (0,68 Nm).

Torque the Nuts as instructed in the Aircraft Maintenance Manual, chapter 70-23-11.

(c) Clipping Point CP6117 - Attach the Overheat Detector to the 6A6196 Tube with the TA0210046FT03 P-Clip, the AS21408 Bolt, the SP154D Washer and the AS20624 Nut.

Lubricate the Bolts with Engine Oil CoMat 10-039 or CoMat 10-040.

(d) Clipping Point CP6125 - Attach the Overheat Detector to the 6A6200 Tube with the TA0210046FT03 P-Clip, the AS21408 Bolt, the SP154D Washer and the AS20624 Nut.

NOTE: Make sure that the Overheat Detector has a minimum clearance of 0.25 in. (6,35 mm) with adjacent components and structure.

(e) Torque the AS20624 Nuts to 36 - 45 lbfin (4 - 5 Nm).

Torque the Nuts as instructed in the Aircraft Maintenance Manual, chapter 70-23-11.

(18) Install the Core Fire Detector.

PROCEDURE

RELATED DATA

(a) For the Meggitt Fire Detector Only: To prevent a foul condition with adjacent hardware remove the three NAS1802-3-25 Screws, MS21043-3 Nuts and AN960C10L Washers and install in the reverse orientation. Torque the Nuts to 35 lbfin (3,95 Nm).

Refer to Figure 10.
Make a mark of the Service Bulletin No. 'V2500-NAC-71-0273' on the Fire Detector Plate.

(b) For the Kidde Fire Detector only: Do Service Bulletin 473873-2-26-464

(c) Install the Fire Detector Responders to the 740-5290 Bracket with the two AS48022 Bolts, the four AN960C10 Washers, the two SP155D Washers and the two AS20624 Nuts. Refer to Figure 10.

(d) Torque the AS20624 Nuts to 36 - 45 lbfin (4 - 5 Nm). Torque the Nuts as instructed in the Aircraft Maintenance Manual, chapter 70-23-11.

(19) Install the 745-5967-515 Fire Detection Harness (System A).

NOTE: This instruction is applicable for Operators with Engines prior to V10059 that have not incorporated Service Bulletin V2500-ENG-75-0081.

PROCEDURE

RELATED DATA

(a) Remove the applicable covers/caps/plugs from the electrical connectors and electrical receptacles.

(b) Put the new 745-5967-515 Fire Detection Harness (System A) in position. Keep enough slack in the harness to prevent stress loads on the Harness Connectors.

(c) Connect the electrical Connectors.

(i) 452VC and 450VC Electrical Connectors to the Pylon interface panel. Refer to the Aircraft Maintenance Manual, Task 70-23-15-912-010.

(ii) 4000HA-A Electrical Connector to the High Pressure Bleed Valve.

(iii) 4001HA-A Electrical Connector to the Bleed Pressure Regulator Valve.

(iv) 4008KS-A Electrical Connector to the Overheat Detector.



- (v) 4001WD1-A Electrical Connector to the Fire Detector.
- Clock the 4001WD1-A Electrical Connector to approximately 12 O'Clock to achieve maximum clearance between the 745-5967-515 Fire Detection Harness (System A) and adjacent hardware.
- If necessary, clock the saddle clamps of the 4001WD1-A Electrical Connector to approximately 12 O'Clock to achieve maximum clearance with adjacent hardware. Refer to Figure 10 sheet 1.
- (d) Attach the Harness at Clipping Points CP5913, CP5925, CP5924, CP6066, CP5923, CP6064, CP5922, CP5921, CP5652, CP5763, CP5764 and CP5905.
- Refer to the Aircraft Maintenance Manual, Task 71-52-41-400-010.
- (e) CP5648 - Attach the Harness to the 6A6236 Tube, the 6A5012 Tube, the Bracket and the 6A6010 Tube with the TA025074-05 P-Clip.
- Refer to Figure 11.
- Lubricate all Clipping Point Bolts and Nuts with Engine Oil CoMat 10-039 or CoMat 10-040.
- (f) CP6098 - Attach the Harness to the 6A5391 Tube and the 6A6009 Tube with the TA025074-03 P-Clip.
- (g) CP5940 - Attach the Harness to the 6A6236 Tube with the TA025074-03 P-Clip, the AS21415 Bolt, the ST1698D48 Spacer and the AS20624 Nut.
- (h) CP5766 - Attach the Harness to the 6A6236 Tube and the 6A2150 Tube with the TA025074-03 P-Clip.
- (i) CP6112 - Attach the Harness to the 6A6236 Tube with the TA025074-04 P-Clip, the AS21414 Bolt, the SP154D Washer, the ST1698D48 Spacer and the AS20624 Nut.

(j) CP6088 – Attach the Harness to the 6A6007 Tube and the 6A6202 Tube with the TA025074-04 P-Clip.

(k) CP6084 – Attach the Harness to the 6A6007 Tube and the 6A5397 Tube with the TA025074-04 P-Clip.

(l) CP6079 – Attach the Harness to the 6A6007 Tube and the 6A5390 Tube with the TA025074-04 P-Clip.

(m) CP6075 – Attach the Harness to the 6A6197 Tube, the 6A5390 Tube, the 6A6198 Tube and the 6A5392 Tube with the TA025074-04 P-Clip.

(n) CP6126 – Install the Harness to the 6A6198 Tube with the TA025074-05 P-Clip.

(o) CP6120 – Attach the Harness to the 740-5290 Overheat Detector Bracket and the 6A6196 Tube with the TA025074-04 P-Clip, the AS21412 Bolt and the AS20624 Nut.

(p) Torque the AS20624 Nuts to 36 – 45 lbfin (4 – 5 Nm).

Torque the Nuts as instructed in the Aircraft Maintenance Manual, chapter 70-23-11.

(20) Install the 745-5967-515 Fire Detection Harness (System A).

NOTE: This instruction is applicable for Operators with Engines prior to V10059 that have incorporated Service Bulletin V2500-ENG-75-0081.

PROCEDURE

RELATED DATA

(a) Remove the applicable covers/caps/plugs from the electrical connectors and electrical receptacles.



- (b) Put the new 745-5967-515 Fire Detection Harness (System A) in position. Keep enough slack in the harness to prevent stress loads on the Harness Connectors.
- (c) Connect the electrical Connectors.
- (i) 452VC and 450VC Electrical Connectors to the Pylon interface panel. Refer to the Aircraft Maintenance Manual, Task 70-23-15-912-010.
- (ii) 4000HA-A Electrical Connector to the High Pressure Bleed Valve.
- (iii) 4001HA-A Electrical Connector to the Bleed Pressure Regulator Valve.
- (iv) 4008KS-A Electrical Connector to the Overheat Detector.
- (v) 4001WD1-A Electrical Connector to the Fire Detector. Clock the 4001WD1-A Electrical Connector to approximately 12 O'Clock to achieve maximum clearance between the 745-5967-515 Fire Detection Harness (System A) and adjacent hardware. If necessary, clock the saddle clamps of the 4001WD1-A Electrical Connector to approximately 12 O'Clock to achieve maximum clearance with adjacent hardware. Refer to Figure 10 sheet 1.
- (d) CP5990 - Attach the Harness to the Cabin Air Bracket with the TA025074-05 P-Clip, the TA025074-01 P-Clip, the AS21407 Bolt, the two SP154D Washers and the AS20624 Nut. Refer to Figure 13. Lubricate all Clipping Point Bolts and Nuts with Engine Oil CoMat 10-039 or CoMat 10-040.
- (e) Attach the Harness at Clipping Points CP5925, CP5924, CP6066, CP5923, CP6064, CP5922, CP5921 and CP5652. Refer to the Aircraft Maintenance Manual, Task 71-52-41-400-010.
- (f) CP6107 - Attach the Harness. Refer to Figure 13.
- (g) CP6058 - Attach the Harness.

- (h) CP5747 – Attach the Harness.
- (i) CP5648 – Attach the Harness to the 6A6236 Tube, the 6A5012 Tube, the Bracket and the 6A6010 Tube with the TA025074-05 P-Clip. Refer to Figure 11. Lubricate all Clipping Point Bolts and Nuts with Engine Oil CoMat 10-039 or CoMat 10-040.
- (j) CP6098 – Attach the Harness to the 6A5391 Tube and the 6A6009 Tube with the TA025074-03 P-Clip.
- (k) CP5940 – Attach the Harness to the 6A6236 Tube with the TA025074-03 P-Clip, the AS21415 Bolt, the ST1698D48 Spacer and the AS20624 Nut.
- (l) CP5766 – Attach the Harness to the 6A6236 Tube and the 6A2150 Tube with the TA025074-03 P-Clip.
- (m) CP6112 – Attach the Harness to the 6A6236 Tube with the TA025074-04 P-Clip, the AS21414 Bolt, the SP154D Washer, the ST1698D48 Spacer and the AS20624 Nut.
- (n) CP6088 – Attach the Harness to the 6A6007 Tube and the 6A6202 Tube with the TA025074-04 P-Clip.
- (o) CP6084 – Attach the Harness to the 6A6007 Tube and the 6A5397 Tube with the TA025074-04 P-Clip.
- (p) CP6079 – Attach the Harness to the 6A6007 Tube and the 6A5390 Tube with the TA025074-04 P-Clip.
- (q) CP6075 – Attach the Harness to the 6A6197 Tube, the 6A5390 Tube, the 6A6198 Tube and the 6A5392 Tube with the TA025074-04 P-Clip.



(r) CP6126 – Install the Harness to the 6A6198 Tube with the TA025074-05 P-Clip.

(s) CP6120 – Attach the Harness to the 740-5290 Overheat Detector Bracket and the 6A6196 Tube with the TA025074-04 P-Clip, the AS21412 Bolt and the AS20624 Nut.

(t) Torque the AS20624 Nuts to 36 – 45 lbfin (4 – 5 Nm).

Torque the Nuts as instructed in the Aircraft Maintenance Manual, chapter 70-23-11.

R

C. Part B – Applicable for Operators with Engines prior to V10059 that have incorporated Service Bulletin V2500-ENG-72-0189 and Operators with Engines V10059 and on.

NOTE: When you remove the Fire Detection Harness for Clipping Points CP5913 thru CP5765 (pre Service Bulletin V2500-ENG-75-0081) or CP5990 thru CP5747 (post Service Bulletin V2500-ENG-75-0081), place attaching parts in a bag and label.

(1) Remove the 745-5967 Fire Detection Harness (System A) as instructed in the Aircraft Maintenance Manual, Task 71-52-41-000-010.

NOTE: To secure the 745-5493 Fire Detection Harness to the engine and prevent damage, reclip the 745-5493 Fire Detection Harness at CP6078, CP5222, CP5928 and CP5927. Refer to Service Bulletin V2500-NAC-79-0088.

(2) Reclip the 745-5493 Fire Detection Harness at clipping points CP6078, CP5222, CP5928 and CP5927.

(3) Remove the 7702-02 Fire Detector.

NOTE: This instruction is applicable for Operators with Nacelle Engine Buildup Units prior to N5013 that have not incorporated Service Bulletin V2500-NAC-26-0005.

PROCEDURE

RELATED DATA

(a) Remove the 7702-02 Fire Detector.

Refer to the Aircraft Maintenance Manual, Task 26-12-15-000-041.

- (4) Rework the 7702-03 (Meggitt) or 473873-1 (Kidde) Fire Detector.

These instructions are applicable for Operators with Nacelle Engine Buildup Units prior to N5013 that have incorporated Service Bulletin V2500-NAC-26-0005 and Operators with Nacelle Engine Buildup Units N5013 and on.

PROCEDURE

RELATED DATA

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| (a) Remove the 7702-03 or 473873-1 Fire Detector. | Refer to the Aircraft Maintenance Manual, Task 26-12-15-000-041. |
| (b) Rework the 7702-03 Fire Detector and re-identify to 7702-04. | Refer to the Meggitt Service Bulletin 801-26-65. |
| (c) Rework the 473873-1 Fire Detector and re-identify to 473873-7. | Refer to the Kidde Service Bulletin 473873-1-26-456. |

- (5) Remove the RP162-02 Overheat Detector.

PROCEDURE

RELATED DATA

- | | |
|--|--------------------|
| (a) CP5223 - Remove the AS20624 Nut, the SP154D Washer, AS21412 Bolt, the ST1698D47 Spacer, the TA025022FT03 P-Clip and the TA025022FT12 P-Clip. | Refer to Figure 3. |
| (b) CP5998 - Remove the AS20624 Nut, the SP154D Washer, the AS21411 Bolt, the ST1698D47 Spacer, the TA025022FT03 P-clip and the TA025022FT08 P-Clip. | |
| (c) Remove the four AS8623A Nuts, the four SP155A Washers and the four A117-1-A Bolts to release the RP162-02 Overheat Detector from the 745-5081-501 Bracket. | |
| (d) Remove the RP162-02 Overheat Detector from the Nacelle and retain. | |

- (6) Remove the 745-5081-501 Overheat Detector Bracket.

PROCEDURE

RELATED DATA

- (a) CP5942 – Remove the AS20624 Nut, the SP154D Washer, the AS21411 Bolt and the ST1698D47 Spacer to release the 745-5081-501 Bracket from the 5R8141 Tube.
- (b) CP5222 – Release the 745-5081-501 Bracket from the 5R8141 Tube.
- (c) Remove the 745-5081-501 Overheat Detector Bracket from the Nacelle.
- (7) Remove the 740-5287-501 Fire Detector Bracket.

PROCEDURE

RELATED DATA

- (a) Remove the two AS20624 Nuts, the two SP155D Washers and the two AS21418 Bolts to release the Fire Detector Responders from the 740-5287-501 Fire Detector Bracket. Retain the Bolts and Washers.
- (b) CP5928 – Remove the AS20624 Nut, the SP155D Washer, the ST1698D48 Spacer, the ST1698D50 Spacer, the AS21428 Bolt and the TA025074-03 P-Clip.
- (c) CP5929 – Remove the AS20624 Nut, the SP155D Washer, the ST1698D47 Spacer and the AS21411 Bolt to release the 740-5287-501 Bracket from the 6A5367 Pipe.
- (d) Remove the 740-5287-501 Bracket from the Nacelle.

- (8) At Clipping Point CP5723 remove the C10GT3-08 P-Clip. Refer to Figure 4.

NOTE: The instructions for the removal of Clipping Points CP0252 and CP0927 may be for reference only. Clipping Points may be removed as part of Service Bulletin V2500-ENG-79-0088.

- (9) At Clipping Point CP0252, remove the AS20624 Nut, the SP154D Washer, the ST1698D47 Spacer, the AS21411 Bolt and the 400WSS4 P-Clip from the 740-5261 Drain Tube. Refer to Figure 5.

- (10) At Clipping Point CP0927, remove the AS20624 Nut, the SP154D Washer, the ST1698D48 Spacer, the AS21414 Bolt and the 400WSS4 P-Clip.

NOTE: The instructions for the installation of Clipping Points CP1465 and CP1464 may be for reference only. Hardware for Clipping Points are kitted and may be installed as part of Service Bulletin V2500-ENG-79-0088.

- (11) At Clipping Point CP1465, fit the 400WSS4 P-Clip to the 740-5261 Drain Tube and attach to the 6A6237 Raceway. Refer to Figure 6.

- (12) At Clipping Point CP1464, fit the 400WSS4 P-Clip to the 740-5793-513 Oil Tube and attach to the 6A6237 Raceway, the EEC Harness and the 740-5261 Drain Tube.

NOTE: Unless otherwise instructed, do not tighten or torque the Tubes fittings or attaching hardware until all the tubes and attaching hardware are installed in the correct position.

- (13) Installation of the 7702-04 (Meggitt) or 473873-7 (Kidde) Fire Detector.

NOTE: Make sure that the Fire Detector has a minimum clearance of 0.25 in. (6,35 mm) with adjacent pipes and structure.

PROCEDURE

RELATED DATA

- (a) Partially install the 7702-04 or 473873-7 Fire Detector to the post Service Bulletin V2500-NAC-26-0005 Configuration. Do not install Clipping Points CP0974, CP0975 and CP0976.

Refer to the Aircraft Maintenance Manual, Task 26-12-15-400-041. Do not tighten or torque the attaching hardware until installation is complete.

- (b) CP1437 - Attach the Fire Detector to the 6A6228 Tube, the 6A6204 Tube and the 6A6217 Tube with the 400WSS8 P-Clip.

Refer to Figure 8.



(c) CP1423 – Attach the Fire Detector to the 6A8234 Bracket and the 6A6212 Tube with the 400WSS8 P-Clip.

(d) CP1410 – If necessary, carefully bend the element on 7702-04 (Meggitt) Fire Detector to a minimum Radius of 0.5 in. (12,7 mm) to prevent a foul condition with CP1410. Make sure that no creases or kinks are introduced to the element.

This step is applicable to operators with 7702-04 (Meggitt) Fire Detectors only.

Refer to Figure 8 view B.

(e) CP1410 – Attach the Fire Detector to the 6A6206 Tube with the 400WSS8 P-Clip, the AS21408 Bolt the SP154D Washer and the AS20624 Nut.

Refer to Figure 8.

Lubricate the Bolts with Engine Oil CoMat 10-039 or CoMat 10-040.

NOTE: Make sure that the Fire Detector has a minimum clearance of 0.25 in. (6,35 mm) with adjacent pipes and structure.

(f) Clipping Points CP1183, CP1184, CP0955, CP0956, CP0957, CP0940, CP0941, CP0959, CP0960, CP0961, CP0962, CP1437, CP1423 and CP1410. Torque the AS20624 Nuts to 36 – 45 lbfin (4 – 5 Nm).

Torque the Nuts as instructed in the Aircraft Maintenance Manual, chapter 70-23-11.

R

(14) Modification of Core Fire Detector routing.

PROCEDURE

RELATED DATA

(a) CP6115 – Install the Fire Detector to the 6A6196 Tube with the C10GT3-08 P-Clip the AS21408 Bolt, the SP155D Washer and the AS20624 Nut.

Refer to Figure 9.

Lubricate the Bolts with Engine Oil CoMat 10-039 or CoMat 10-040.

NOTE: Make sure that the Fire Detector has a minimum clearance of 0.25 in. (6,35 mm) with adjacent components and structure.

(b) Torque the AS20624 Nut to 36 – 45 lbfin (4 – 5 Nm).

Torque the Nuts as instructed in the Aircraft Maintenance Manual, chapter 70-23-11.

R

(15) Install the RP162-02 Overheat Detector.

PROCEDURE

RELATED DATA

(a) Install the RP162-02 Overheat Detector to the 740-5290 bracket with the four A117-1A Bolts, the four SP155A Washers and the four AS8623A Nuts.

Refer to Figure 10.
Lubricate the Bolts with Engine Oil CoMat 10-039 or CoMat 10-040.

(b) Torque the AS8623A Nuts to 6 lbfin (0,68 Nm).

Torque the Nuts as instructed in the Aircraft Maintenance Manual, chapter 70-23-11.

(c) CP6117 - Attach the Overheat Detector to the 6A6196 Tube with the TA0210046FT03 P-Clip, the AS21408 Bolt, the SP154D Washer and the AS20624 Nut.

Lubricate the Bolts with Engine Oil CoMat 10-039 or CoMat 10-040.

(d) CP6125 - Attach the Overheat Detector to the 6A6200 Tube with the TA0210046FT03 P-Clip, the AS21408 Bolt, the SP154D Washer and the AS20624 Nut.

NOTE: Make sure that the Overheat Detector has a minimum clearance of 0.25 in. (6,35 mm) with adjacent components and structure.

(e) Torque the AS20624 Nuts to 36 - 45 lbfin (4 - 5 Nm).

Torque the Nuts as instructed in the Aircraft Maintenance Manual, chapter 70-23-11.

(16) Install the Core Fire Detector.

PROCEDURE

RELATED DATA

(a) For the Meggitt Fire Detector only: To prevent a foul condition with adjacent hardware remove the three NAS1802-3-25 Screws, MS21043-3 Nuts and AN960C10L Washers and install in the reverse orientation. Torque the nuts to 35 lbfin (3,95 Nm).

Refer to Figure 10
Make a mark of the Service Bulletin No. 'V2500-NAC-71-0273' on the Fire Detector Plate.

(b) For the Kidde Fire Detector only: Do Service Bulletin 473873-2-26-464.



- (c) Install the Fire Detector Responders to the 740-5290 Bracket with the two AS48022 Bolts, the four AN960C10 Washers, the two SP155D Washers and the two AS20624 Nuts.

Refer to Figure 10.

- (d) Torque the AS20624 Nuts to 36 - 45 lbfin (4 - 5 Nm).

Torque the Nuts as instructed in the Aircraft Maintenance Manual, chapter 70-23-11.

- (17) Install the 745-5967-515 Fire Detection Harness (System A).

NOTE: This instruction is applicable for Operators with Engines V10059 and on and have not incorporated Service Bulletin V2500-ENG-75-0081.

PROCEDURE

RELATED DATA

- (a) Remove the applicable covers/caps/plugs from the electrical connectors and electrical receptacles.

- (b) Put the new 745-5967-515 Fire Detection Harness (System A) in position.

Keep enough slack in the harness to prevent stress loads on the Harness Connectors.

- (c) Connect the electrical Connectors.

- (i) 452VC and 450VC Electrical Connectors to the Pylon interface panel.

Refer to the Aircraft Maintenance Manual, Task 70-23-15-912-010.

- (ii) 4000HA-A Electrical Connector to the High Pressure Bleed Valve.

- (iii) 4001HA-A Electrical Connector to the Bleed Pressure Regulator Valve.

- (iv) 4008KS-A Electrical Connector to the Overheat Detector.

- | | |
|--|---|
| <p>(v) 4001WD1-A Electrical Connector to the Fire Detector.</p> | <p>Clock the 4001WD1-A Electrical Connector to approximately 12 O'Clock to achieve maximum clearance between the 745-5967-515 Fire Detection Harness (System A) and adjacent hardware.
If necessary, clock the saddle clamps of the 4001WD1-A Electrical Connector to approximately 12 O'Clock to achieve maximum clearance with adjacent hardware. Refer to Figure 10 sheet 1.</p> |
| <p>(d) Attach the harness at Clipping Points CP5913 and CP5925</p> | <p>Refer to the Aircraft Maintenance Manual, Task 71-52-41-400-010.</p> |
| <p>(e) CP5924 - Attach the Harness to the 6A5308 Tube with the TA025074-05 P-Clip, the AS21414 Bolt the SP154D Washer, the ST1698D48 Spacer and the AS20624 Nut.</p> | <p>Refer to Figure 12.
Lubricate all Clipping Point Bolts and Nuts with Engine Oil CoMat 10-039 or CoMat 10-040.</p> |
| <p>(f) Attach the Harness at Clipping Points CP6066, CP5923, CP6064 and CP5922.</p> | <p>Refer to the Aircraft Maintenance Manual, Task 71-52-41-400-010.</p> |
| <p>(g) CP5921 - Attach the Harness to the 6A5308 Tube with the TA025074-05 P-Clip, the AS21407 Bolt and the AS20624 Nut.</p> | <p>Refer to Figure 12.
Lubricate all Clipping Point Bolts and Nuts with Engine Oil CoMat 10-039 or CoMat 10-040.</p> |
| <p>(h) Attach the Harness at Clipping Point CP5652</p> | <p>Refer to the Aircraft Maintenance Manual, Task 71-52-41-400-010.</p> |
| <p>(i) CP5763 - Attach the Harness.</p> | <p>Refer to Figure 12.</p> |
| <p>(j) CP5764 - Attach the Harness.</p> | |
| <p>(k) CP5765 - Attach the Harness.</p> | |
| <p>(l) CP5648 - Attach the Harness to the 6A6236 Tube, the 6A5012 Tube, the Bracket and the 6A6010 Tube with the TA025074-05 P-Clip.</p> | <p>Refer to Figure 11.
Lubricate all Clipping Point Bolts and Nuts with Engine Oil CoMat 10-039 or CoMat 10-040.</p> |



- (m) CP6098 – Attach the Harness to the 6A5391 Tube and the 6A6009 Tube with the TA025074-03 P-Clip.
- (n) CP5940 – Attach the Harness to the 6A6232 Tube with the TA025074-03 P-Clip, the AS21415 Bolt, the ST1698D48 Spacer and the AS20624 Nut.
- (o) CP6112 – Attach the Harness to the 6A6236 Tube with the TA025074-04 P-Clip, the AS21414 Bolt, the SP154D Washer, the ST1698D48 Spacer and the AS20624 Nut.
- (p) CP6088 – Attach the Harness to the 6A6007 Tube and the 6A6202 Tube with the TA025074-04 P-Clip.
- (q) CP6084 – Attach the Harness to the 6A6007 Tube and the 6A5397 Tube with the TA025074-04 P-Clip.
- (r) CP6079 – Attach the Harness to the 6A6007 Tube and the 6A5390 Tube with the TA025074-04 P-Clip.
- (s) CP6075 – Attach the Harness to the 6A6197 Tube, the 6A5390 Tube, the 6A6198 Tube and the 6A5392 Tube with the TA025074-04 P-Clip.
- (t) CP6126 – Install the Harness to the 6A6198 Tube with the TA025074-05 P-Clip.
- (u) CP6120 – Attach the Harness to the 740-5290 Overheat Detector Bracket and the 6A6196 Tube with the TA025074-04 P-Clip, the AS21412 Bolt and the AS20624 Nut.

- R (v) Torque the AS20624 Nuts to 36 - 45 lbfin (4 - 5 Nm). Torque the Nuts as instructed in the Aircraft Maintenance Manual, chapter 70-23-11.

(18) Install the 745-5967-515 Fire Detection Harness (System A).

NOTE: This instruction is applicable for Operators with Engines V10059 and on and have incorporated Service Bulletin V2500-ENG-75-0081.

PROCEDURE

RELATED DATA

- (a) Remove the applicable covers/caps/plugs from the electrical connectors and electrical receptacles.
- (b) Put the new 745-5967-515 Fire Detection Harness (System A) in position. Keep enough slack in the harness to prevent stress loads on the Harness Connectors.
- (c) Connect the electrical Connectors.
 - (i) 452VC and 450VC Electrical Connectors to the Pylon interface panel. Refer to the Aircraft Maintenance Manual, Task 70-23-15-912-010.
 - (ii) 4000HA-A Electrical Connector to the High Pressure Bleed Valve.
 - (iii) 4001HA-A Electrical Connector to the Bleed Pressure Regulator Valve.
 - (iv) 4008KS-A Electrical Connector to the Overheat Detector.
 - (v) 4001WD1-A Electrical Connector to the Fire Detector. Clock the 4001WD1-A Electrical Connector to approximately 12 O'Clock to achieve maximum clearance between the 745-5967-515 Fire Detection Harness (System A) and adjacent hardware. If necessary, clock the saddle clamps of the 4001WD1-A Electrical Connector to approximately 12 O'Clock to achieve maximum clearance with adjacent hardware. Refer to Figure 10 sheet 1.



- | | |
|---|--|
| (d) CP5990 – Attach the harness to the Cabin Air Bracket with the TA025074-05 P-Clip, the TA025074-01 P-Clip, the AS21407 Bolt, the two SP154D Washers and the AS20624 Nut. | Refer to Figure 13.
Lubricate all Clipping Point Bolts and Nuts with Engine Oil CoMat 10-039 or CoMat 10-040. |
| (e) CP5925 – Attach the Harness at clipping points. | Refer to the Aircraft Maintenance Manual, Task 71-52-41-400-010. |
| (f) CP5924 – Attach the Harness to the 6A5308 Tube with the TA025074-05 P-Clip, the AS21414 Bolt, the SP154D Washer, the ST1698D48 Spacer and the AS20624 Nut. | Lubricate all Clipping Point Bolts and Nuts with Engine Oil CoMat 10-039 or CoMat 10-040. |
| (g) Attach the Harness at CP6066, CP5923, CP6064 and CP5922. | Refer to the Aircraft Maintenance Manual, Task 71-52-41-400-010. |
| (h) CP5921 – Attach the Harness to the 6A5308 Tube with the TA025074-05 P-Clip, the AS21407 Bolt and the AS20624 Nut. | Lubricate all Clipping Point Bolts and Nuts with Engine Oil CoMat 10-039 or CoMat 10-040. |
| (i) CP5652 – Attach the Harness. | Refer to the Aircraft Maintenance Manual, Task 71-52-41-400-010. |
| (j) CP6107 – Attach the Harness. | Refer to Figure 13. |
| (k) CP6058 – Attach the Harness. | |
| (l) CP5747 – Attach the Harness. | |
| (m) CP5648 – Attach the Harness to the 6A6236 Tube, the 6A5012 Tube, the Bracket and the 6A6010 Tube with the TA025074-05 P-Clip | Refer to Figure 11.
Lubricate all Clipping Point Bolts and Nuts with Engine Oil CoMat 10-039 or CoMat 10-040. |
| (n) CP6098 – Attach the Harness to the 6A5391 Tube and the 6A6009 Tube with the TA025074-03 P-Clip. | |
| (o) CP5940 – Attach the Harness to the 6A6236 Tube with the TA025074-03 P-Clip, the AS21415 Bolt, the ST1698D48 Spacer and the AS20624 Nut. | |

- (p) CP5766 – Attach the Harness to the 6A6236 Tube and the 6A2150 Tube with the TA025074-03 P-Clip
- (q) CP6112 – Attach the Harness to the 6A6236 Tube with the TA025074-04 P-Clip, the AS21414 Bolt, the SP154D Washer, the ST1698D48 Spacer and the AS20624 Nut.
- (r) CP6088 – Attach the Harness to the 6A6007 Tube and the 6A6202 Tube with the TA025074-04 P-Clip.
- (s) CP6084 – Attach the Harness to the 6A6007 Tube and the 6A5397 Tube with the TA025074-04 P-Clip.
- (t) CP6079 – Attach the Harness to the 6A6007 Tube and the 6A5390 Tube with the TA025074-04 P-Clip.
- (u) CP6075 – Attach the Harness to the 6A6197 Tube, the 6A5390 Tube, the 6A6198 Tube and the 6A5392 Tube with the TA025074-04 P-Clip.
- (v) CP6126 – Install the Harness to the 6A6198 Tube with the TA025074-05 P-Clip.
- (w) CP6120 – Attach the Harness to the 740-5290 Overheat Detector Bracket and the 6A6196 Tube with the TA025074-04 P-Clip, the AS21412 Bolt and the AS20624 Nut.

- (x) Torque the AS20624 Nuts to 36 – 45 lbfin (4 – 5 Nm).

Torque the Nuts as instructed in the Aircraft Maintenance Manual, chapter 70-23-11.

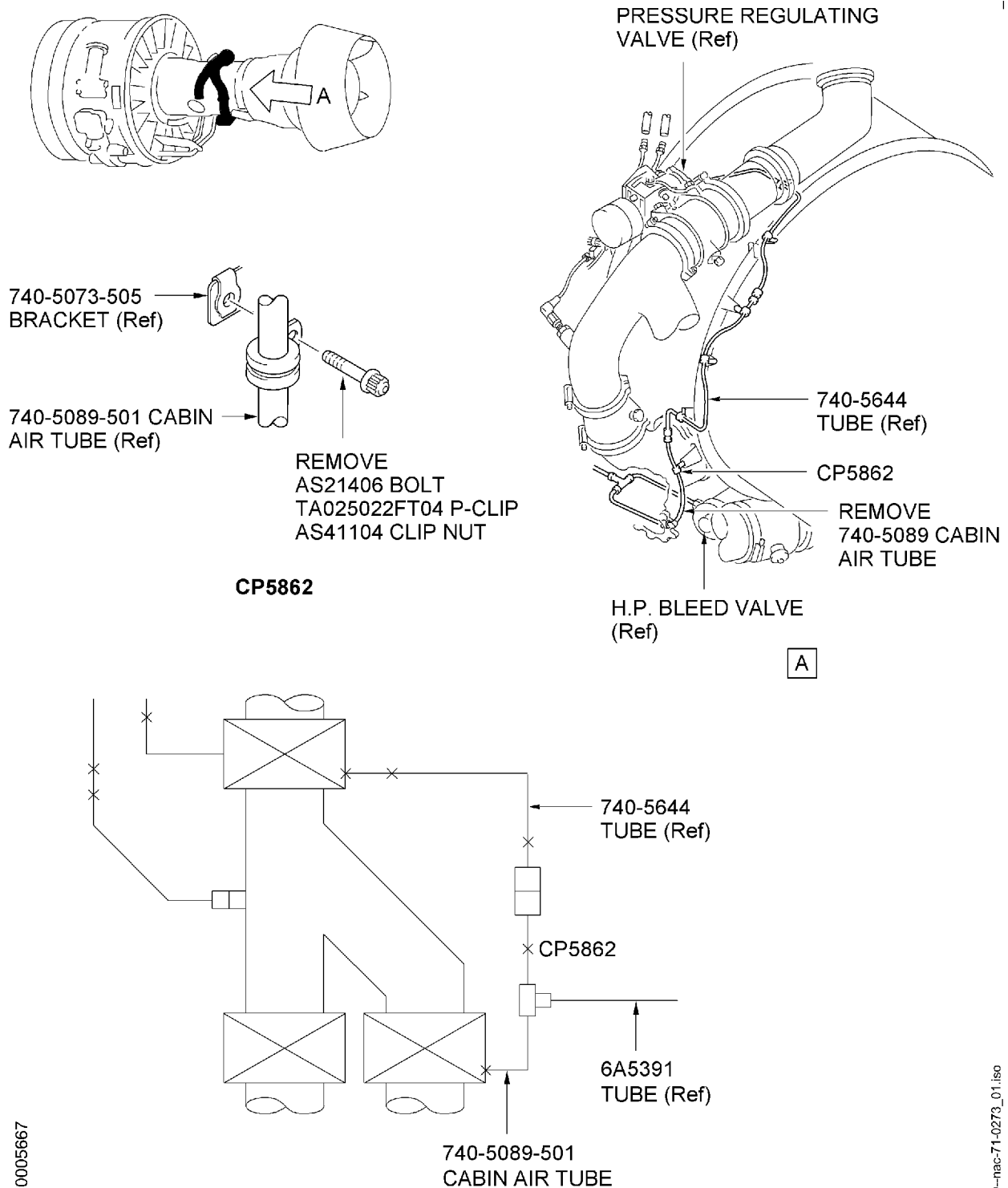
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D. Post-requisite Instructions

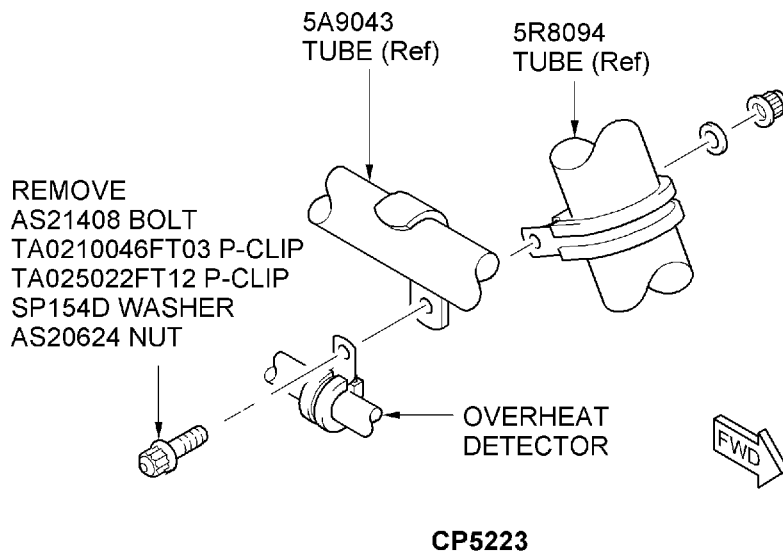
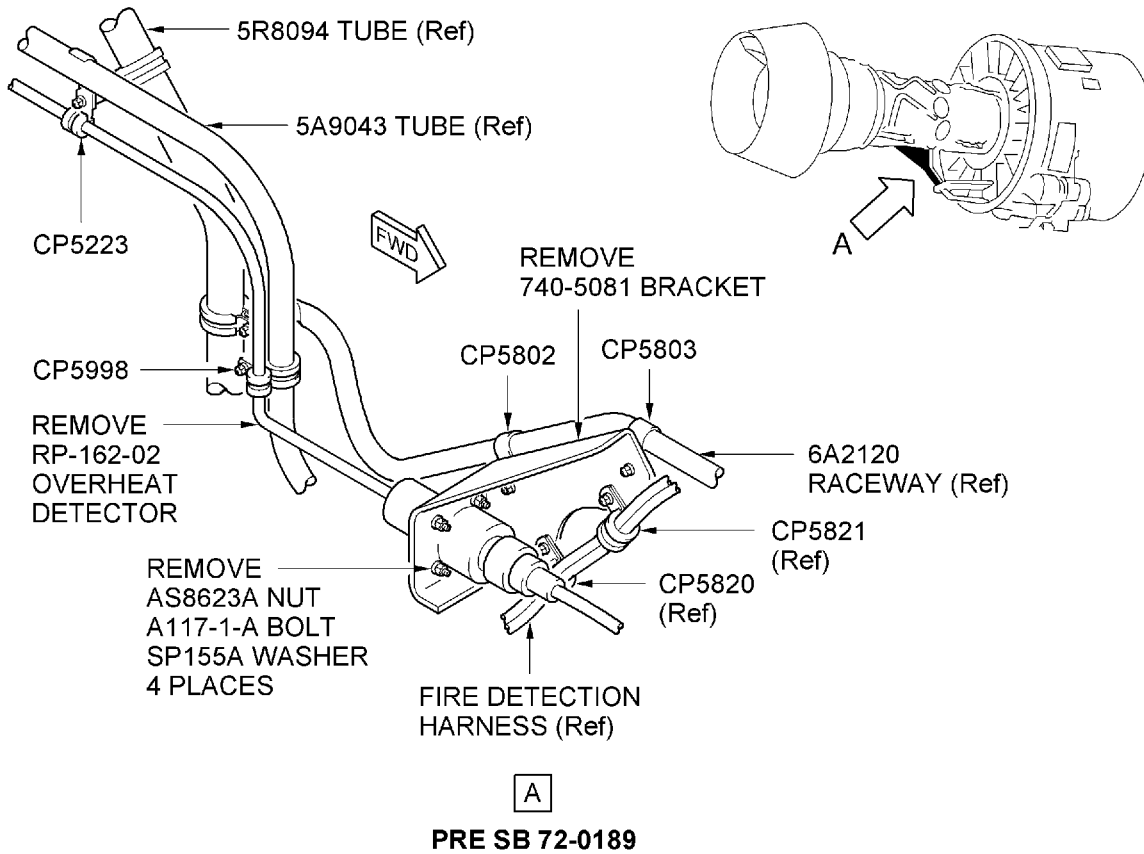
- (1) Remove the Safety Clips and the Tags and close these Circuit Breakers:
7WD1, 7WD2, 8WD1, 8WD2
- (2) Close the Thrust Reverser Halves as instructed in the Aircraft Maintenance Manual, Task 78-32-00-410-010.
- (3) Close the Fan Cowl Doors as instructed in the Aircraft Maintenance Manual, Task 71-13-00-410-010.
- (4) Activate the Thrust Reverser as instructed in the Aircraft Maintenance Manual, Task 78-30-00-440-012.
- (5) Do the EIS start procedure as instructed in the Aircraft Maintenance Manual, Task 31-60-00-860-001.
- (6) Do the Fire Detection tests as instructed in the Aircraft Maintenance Manual, Subtask 26-12-15-710-052.
- (7) Do the EIS stop procedure as instructed in the Aircraft Maintenance Manual, Task 31-60-00-860-002.
- (8) Do the EEC system test as instructed in the A320/V2500-A1 A319/A320/A321/V2500-A5 Aircraft Maintenance Manual, Task 71-00-00-710-022.
- (9) Do an operational Test as instructed in the Aircraft Maintenance Manual, Task 73-25-34-710-042.

E. Recording Instructions

- (1) A record of accomplishment is necessary. Write in the Aircraft Log Book that Service Bulletin V2500-NAC-71-0273 has been incorporated.



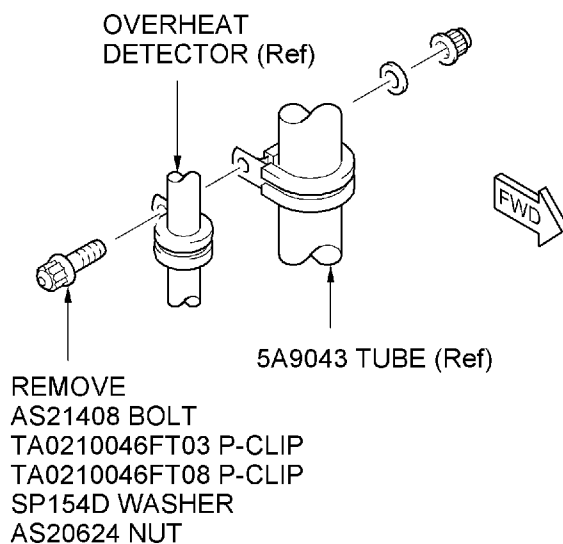
Removal of the Cabin Air Tube
Figure 1



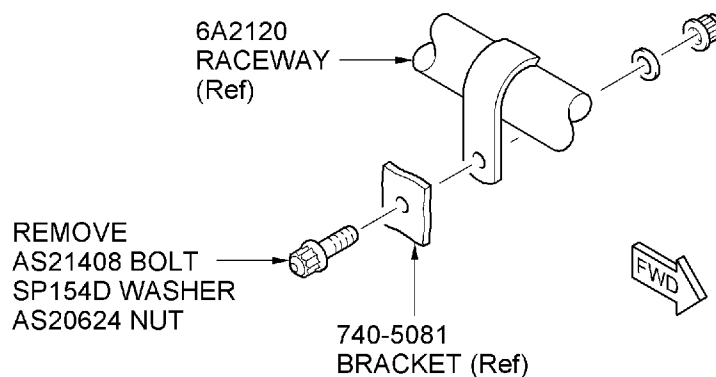
Removal of the Overheat Detector and Bracket
Figure 2, Sheet 1 of 2

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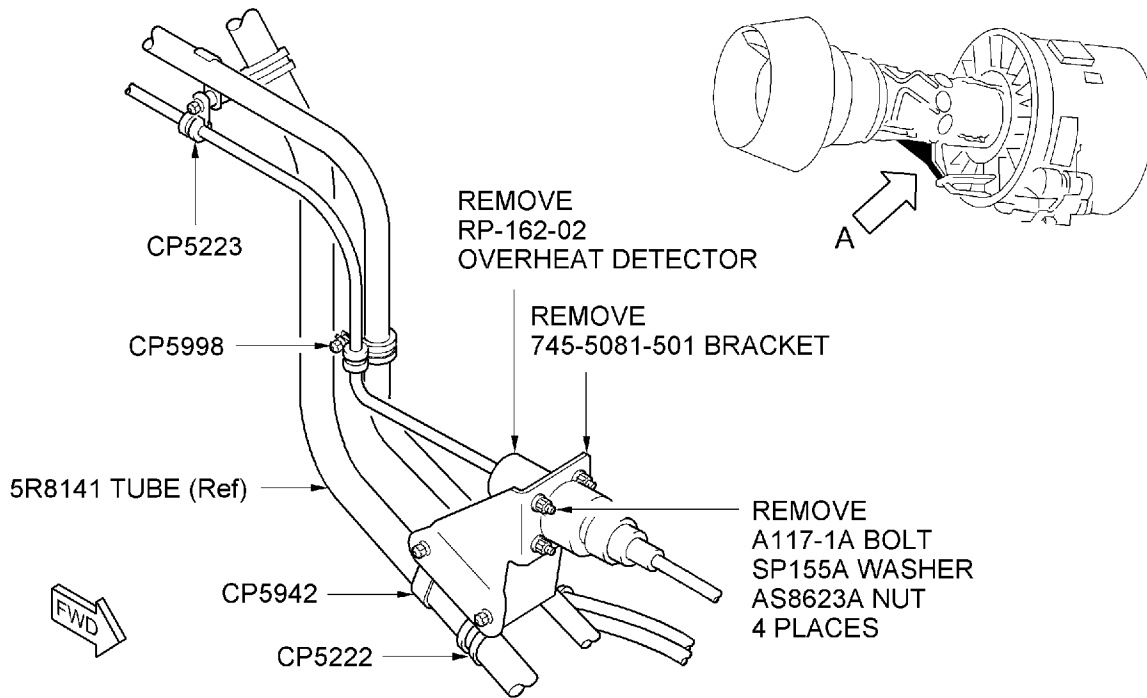


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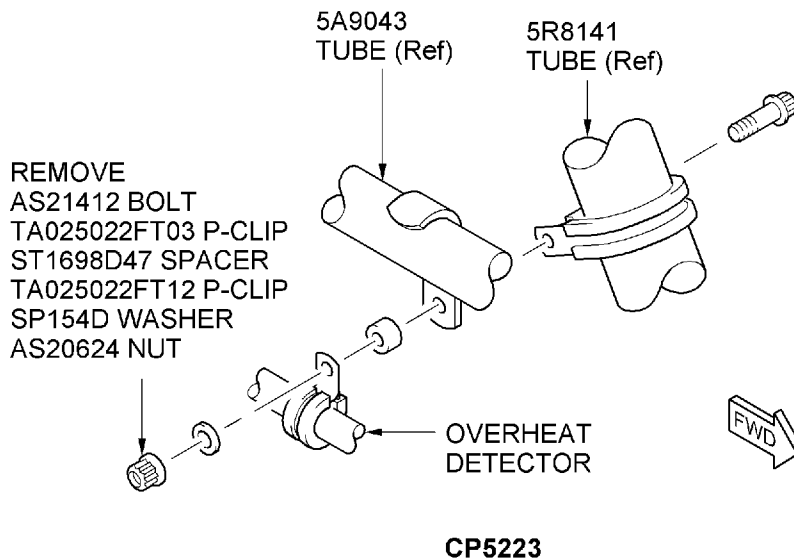


CP5802 & CP5803

Removal of the Overheat Detector and Bracket
Figure 2, Sheet 2 of 2



POST SB 72-0189



Removal of the Overheat Detector and Bracket
Figure 3, Sheet 1 of 2

V2500-NAC-71-0273

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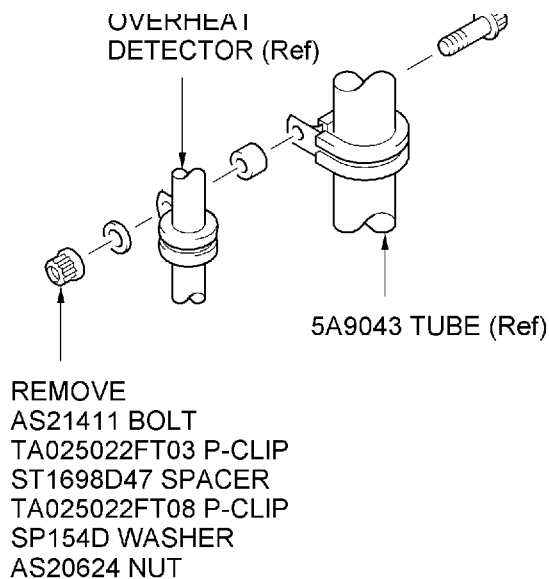
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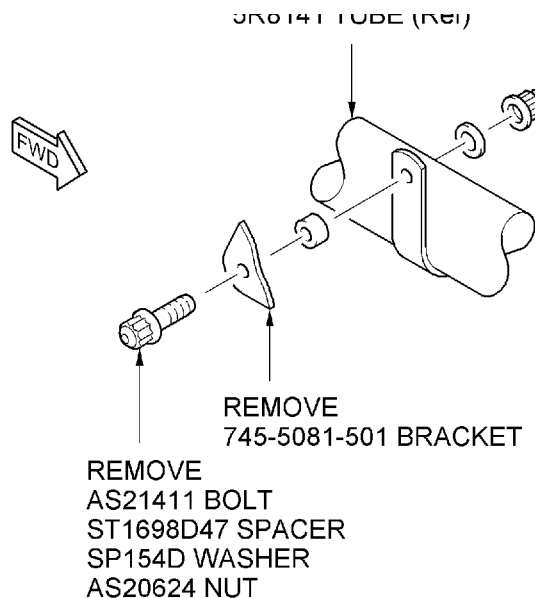
Not subject to the EAR per 15 C.F.R. Chapter 1, Part 734.3(b)(3).

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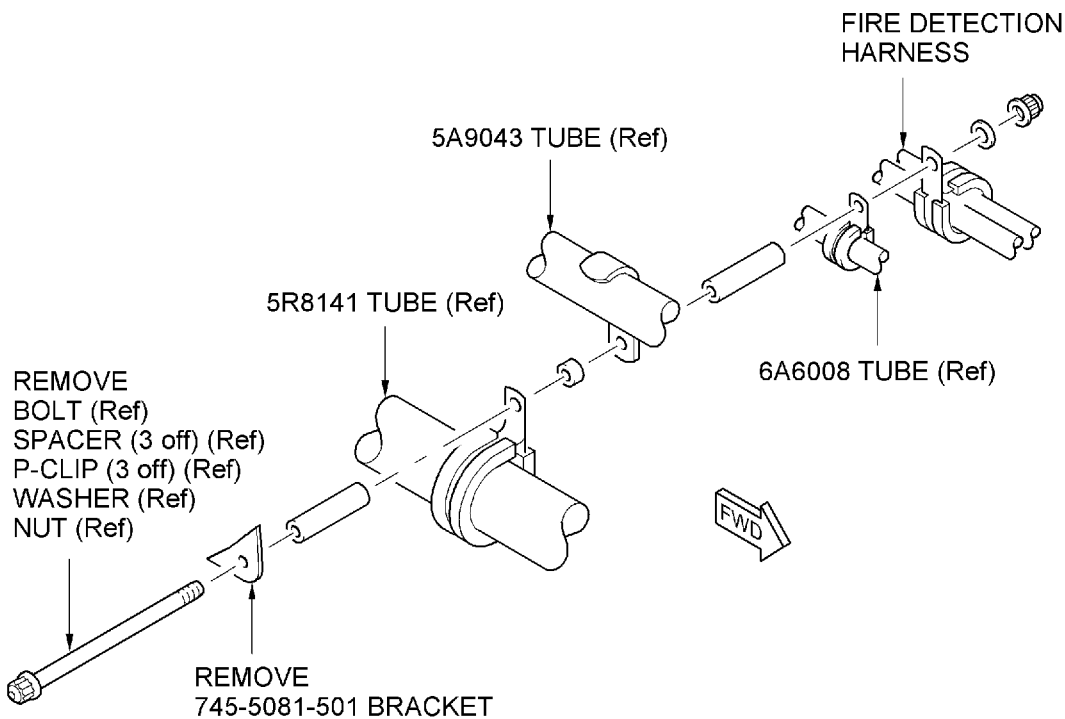
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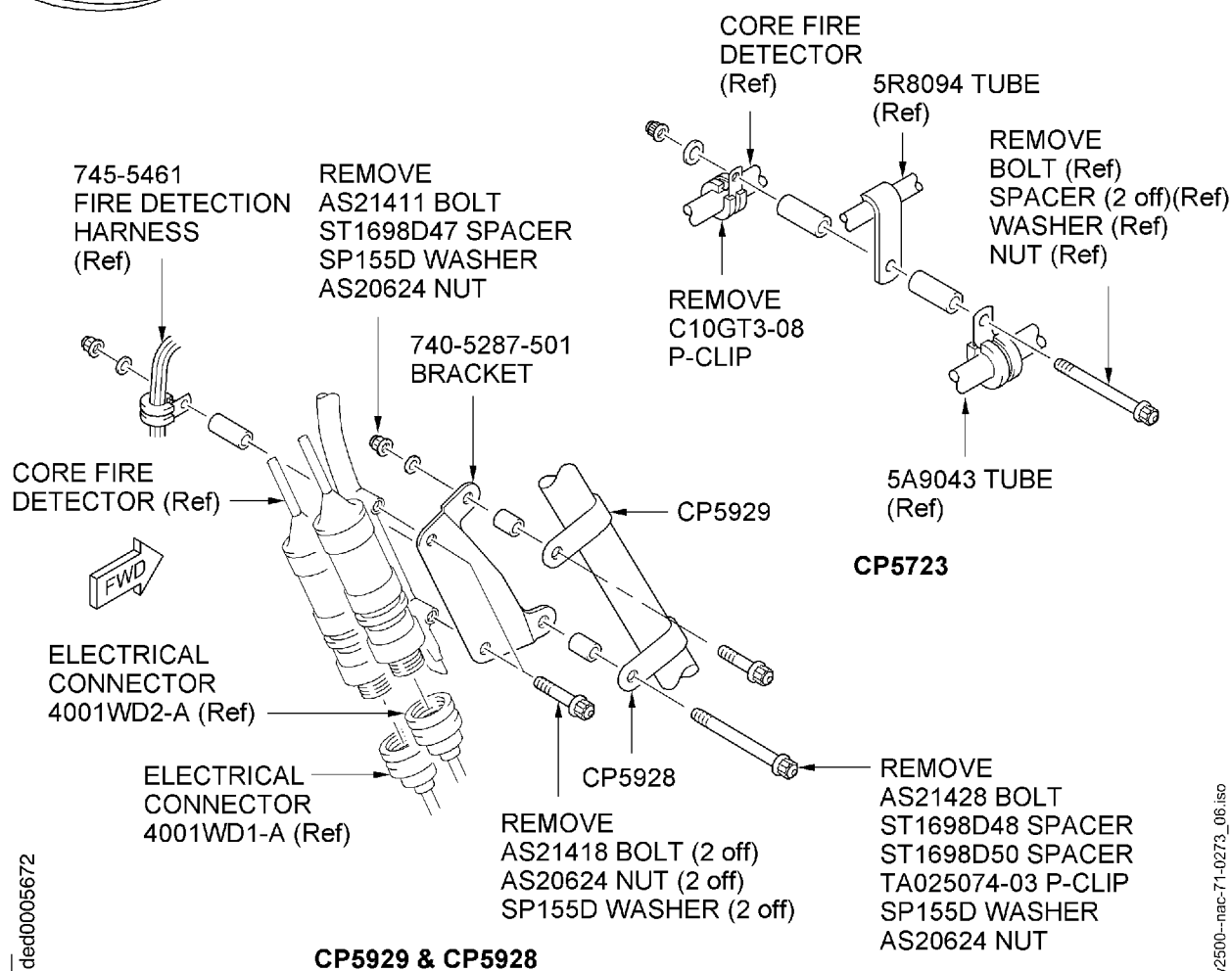
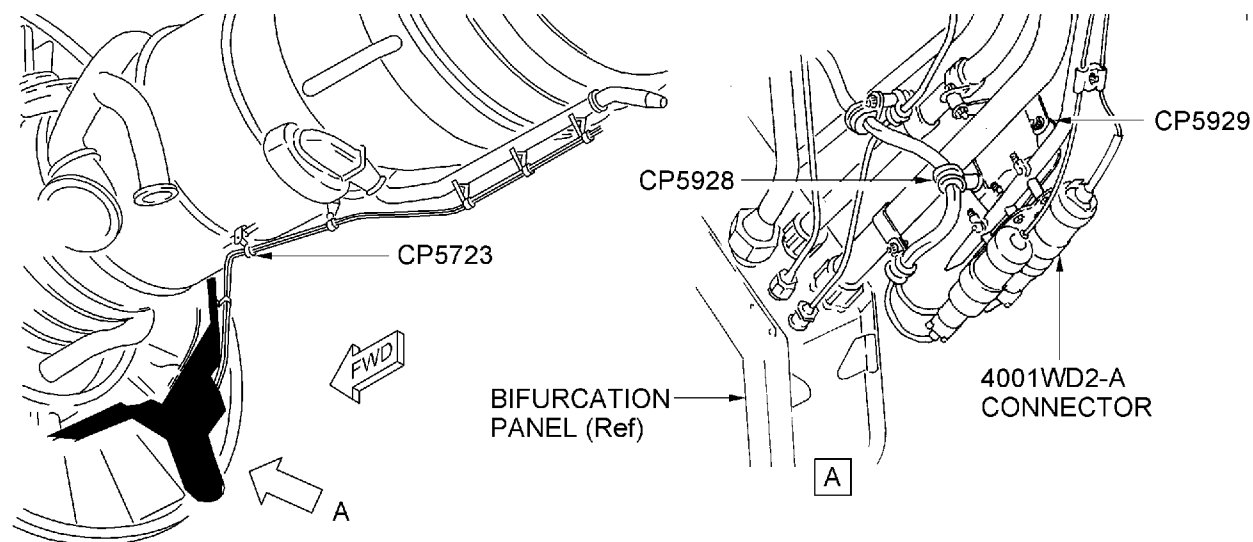


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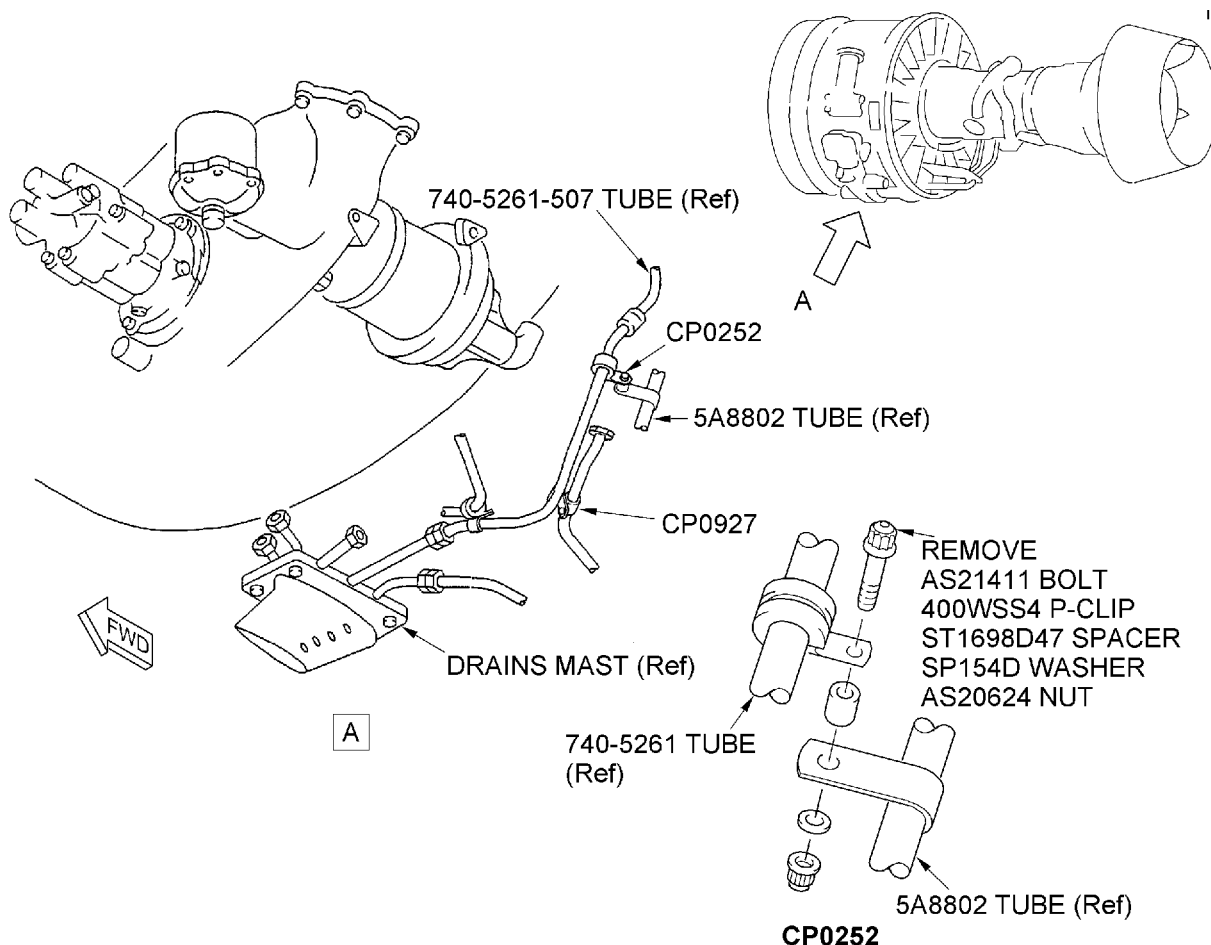
CP5222

Removal of the Overheat Detector and Bracket
Figure 3, Sheet 2 of 2



Removal of the Fire Detector Brackets

Figure 4

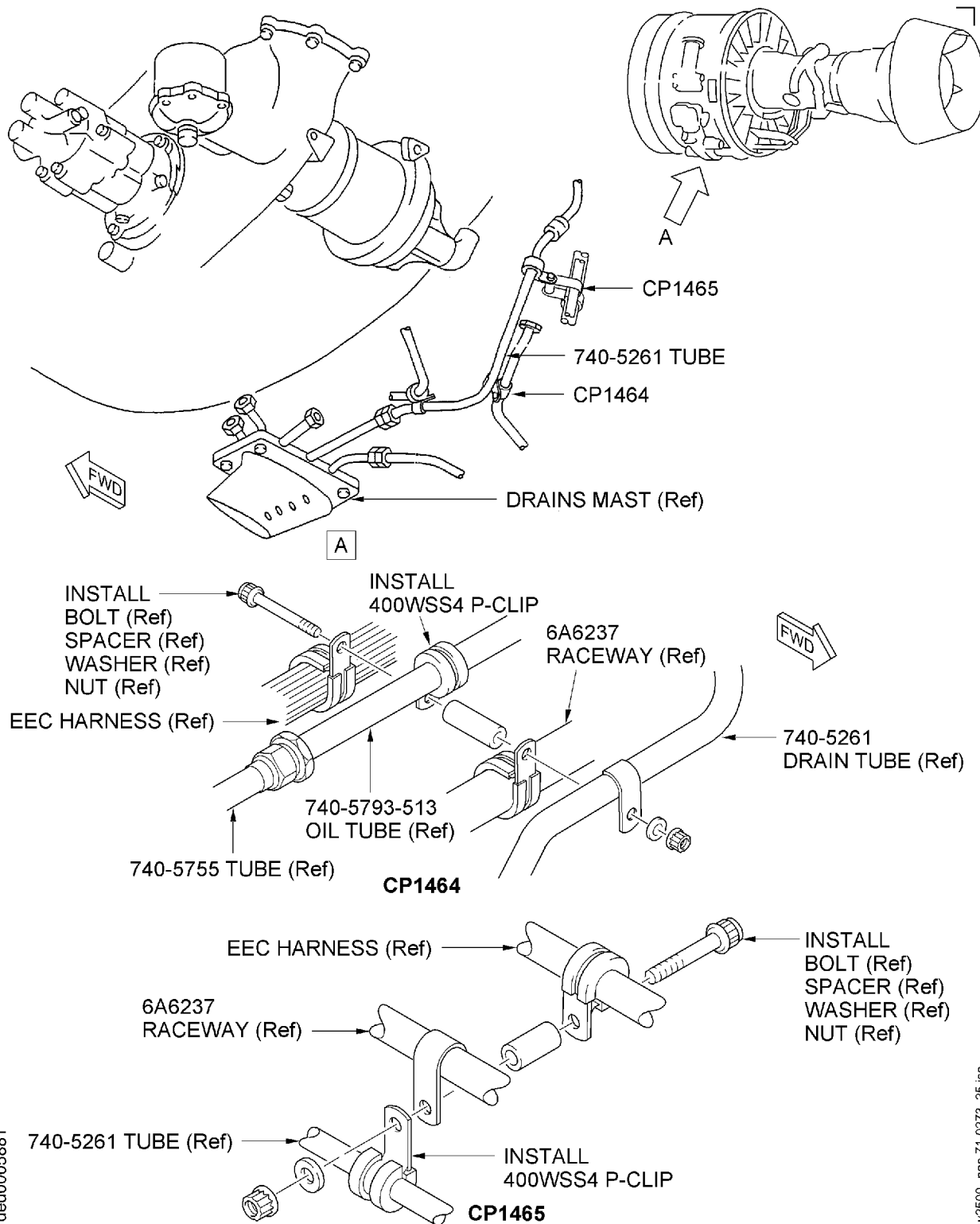


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PRE SERVICE BULLETIN V2500-ENG-72-0189 POST SERVICE BULLETIN V2500-ENG-72-0189

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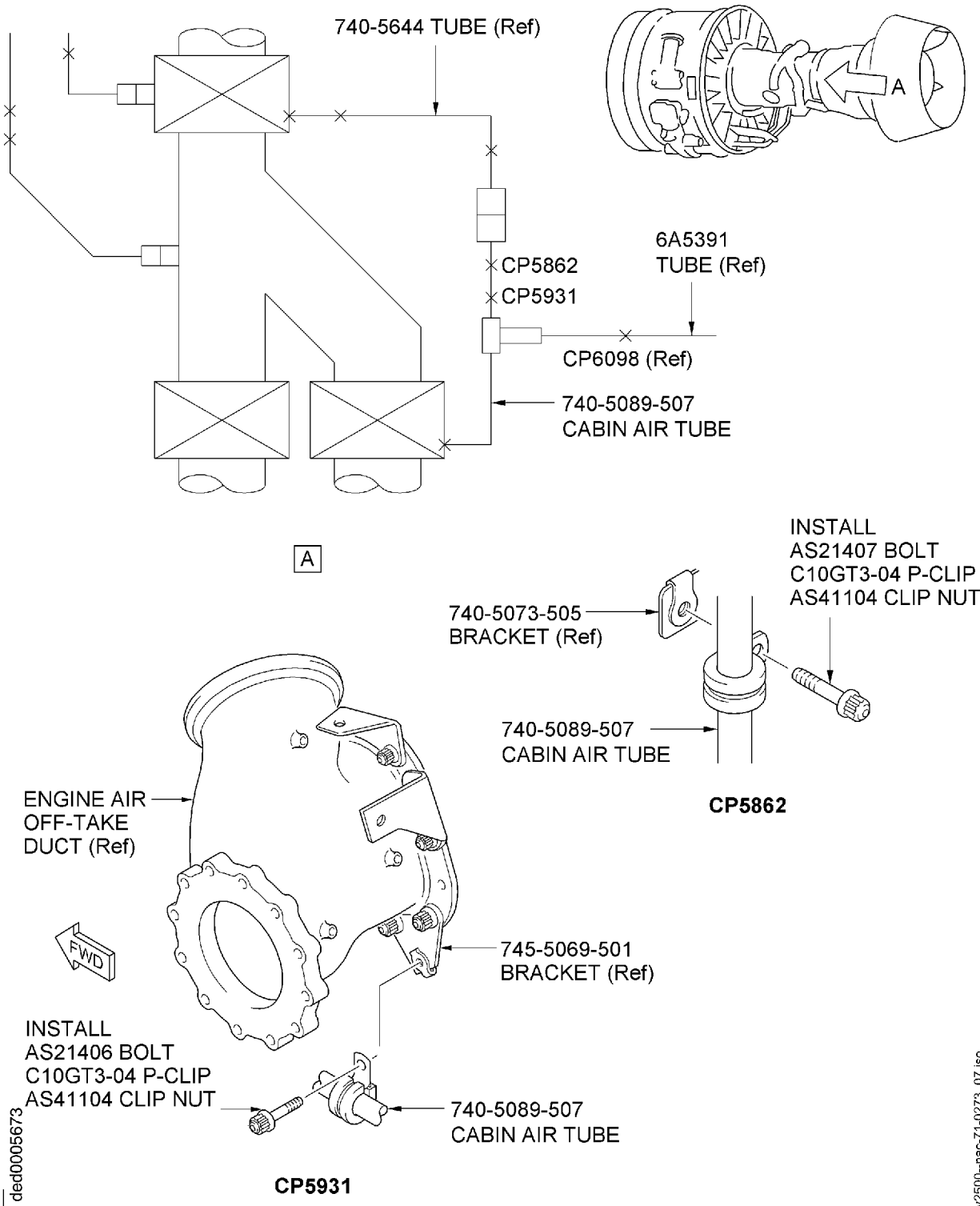
Disassembly of Clipping Points CP0252 and CP0927
Figure 5



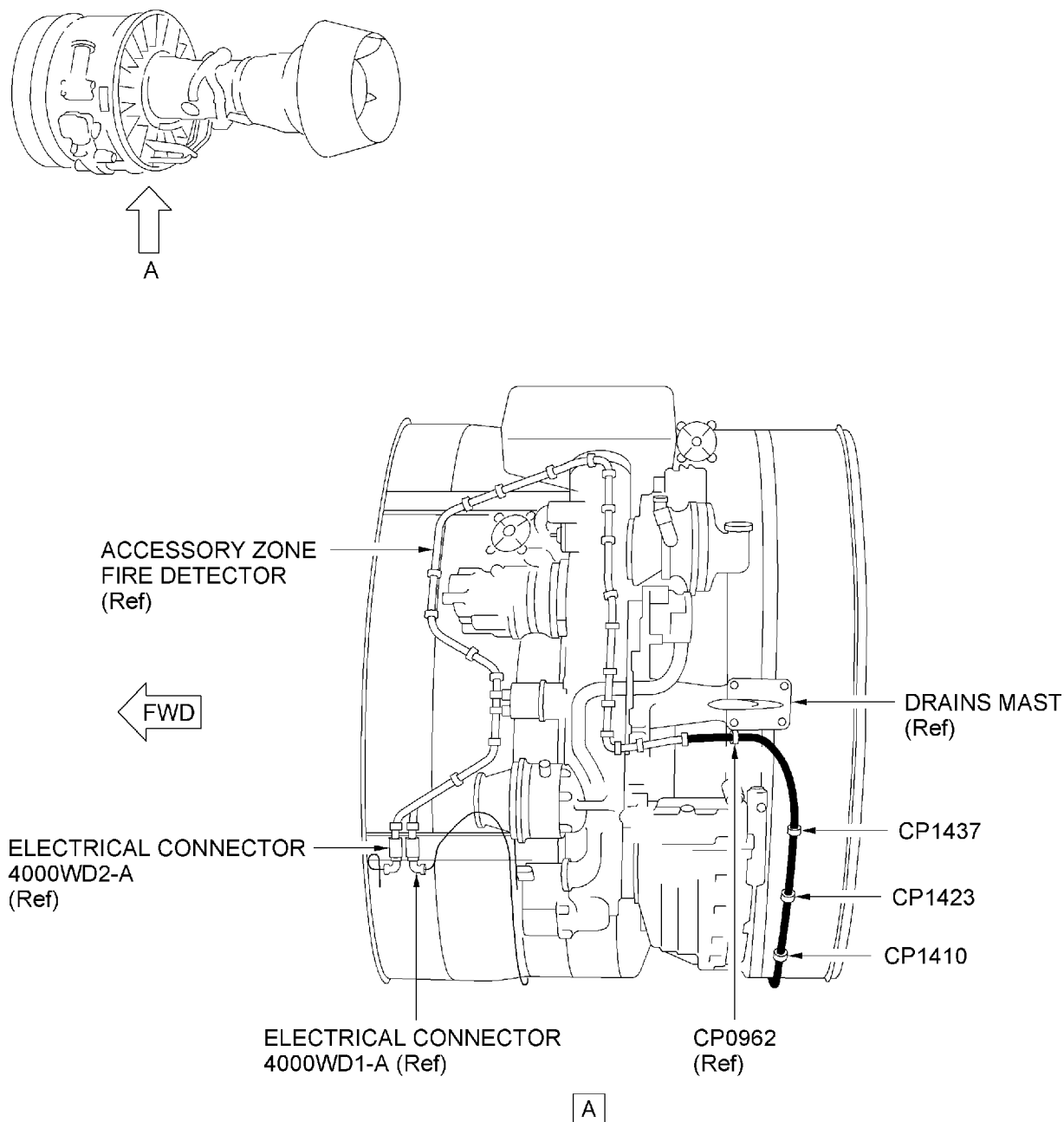
Assembly of Clipping Points CP1464 and CP1465
Figure 6

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Installation of the Cabin Air Tube
Figure 7

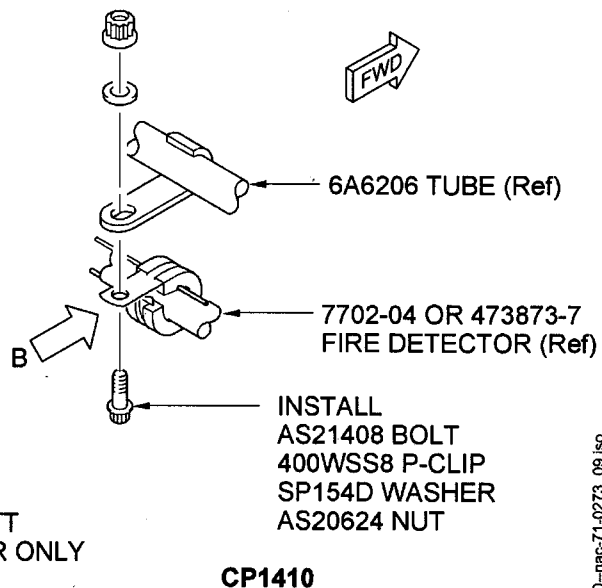
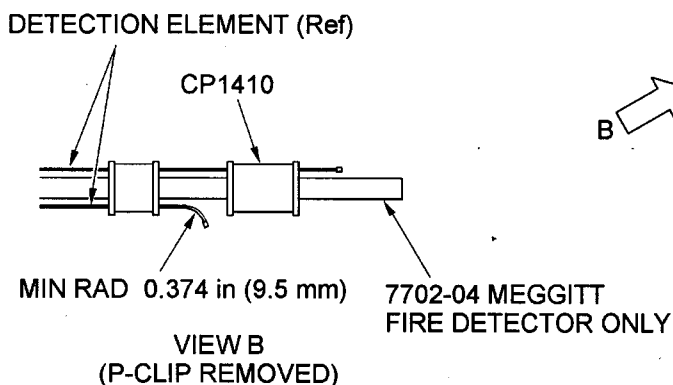
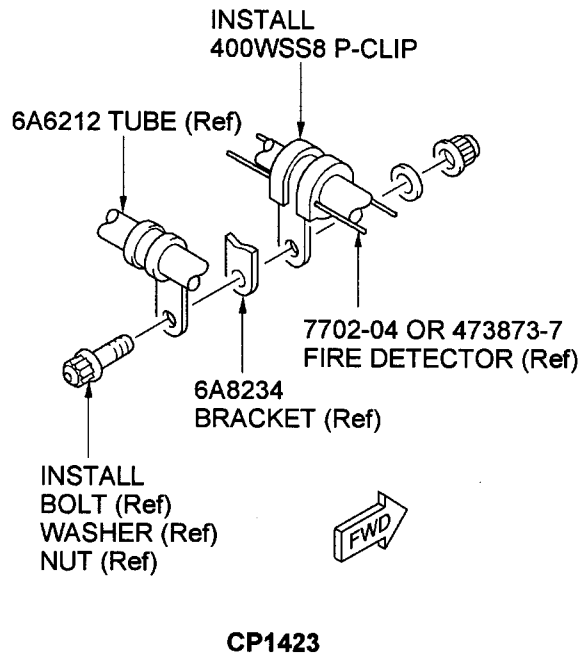
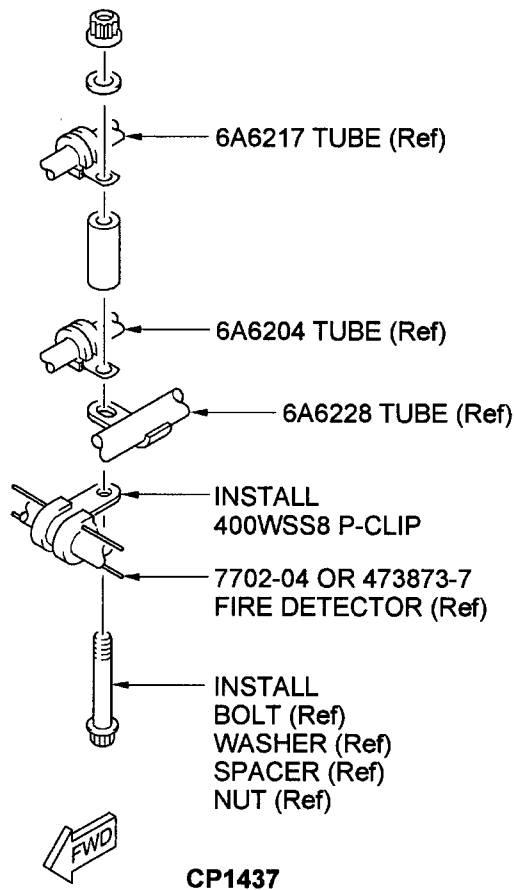


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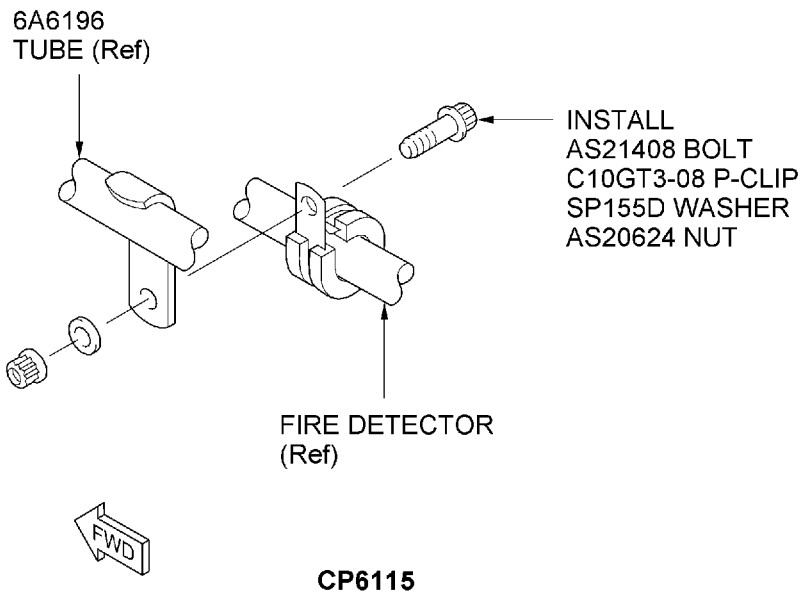
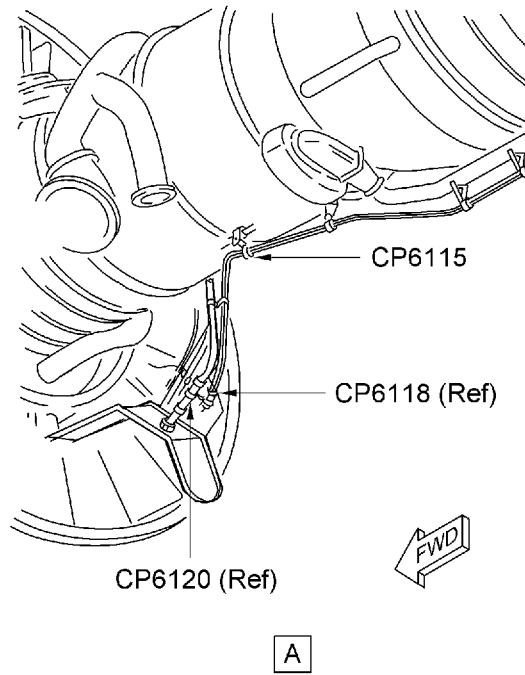
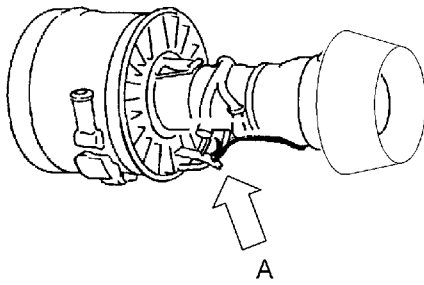
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Installation of the 7702-04 (Meggitt) or 473873-7 (Kidde) Fire Detector
Figure 8, Sheet 1 of 2

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Installation of the 7702-04 (Meggitt) or 473873-7 (Kidde) Fan Case Fire Detector
Figure 8, Sheet 2 of 2

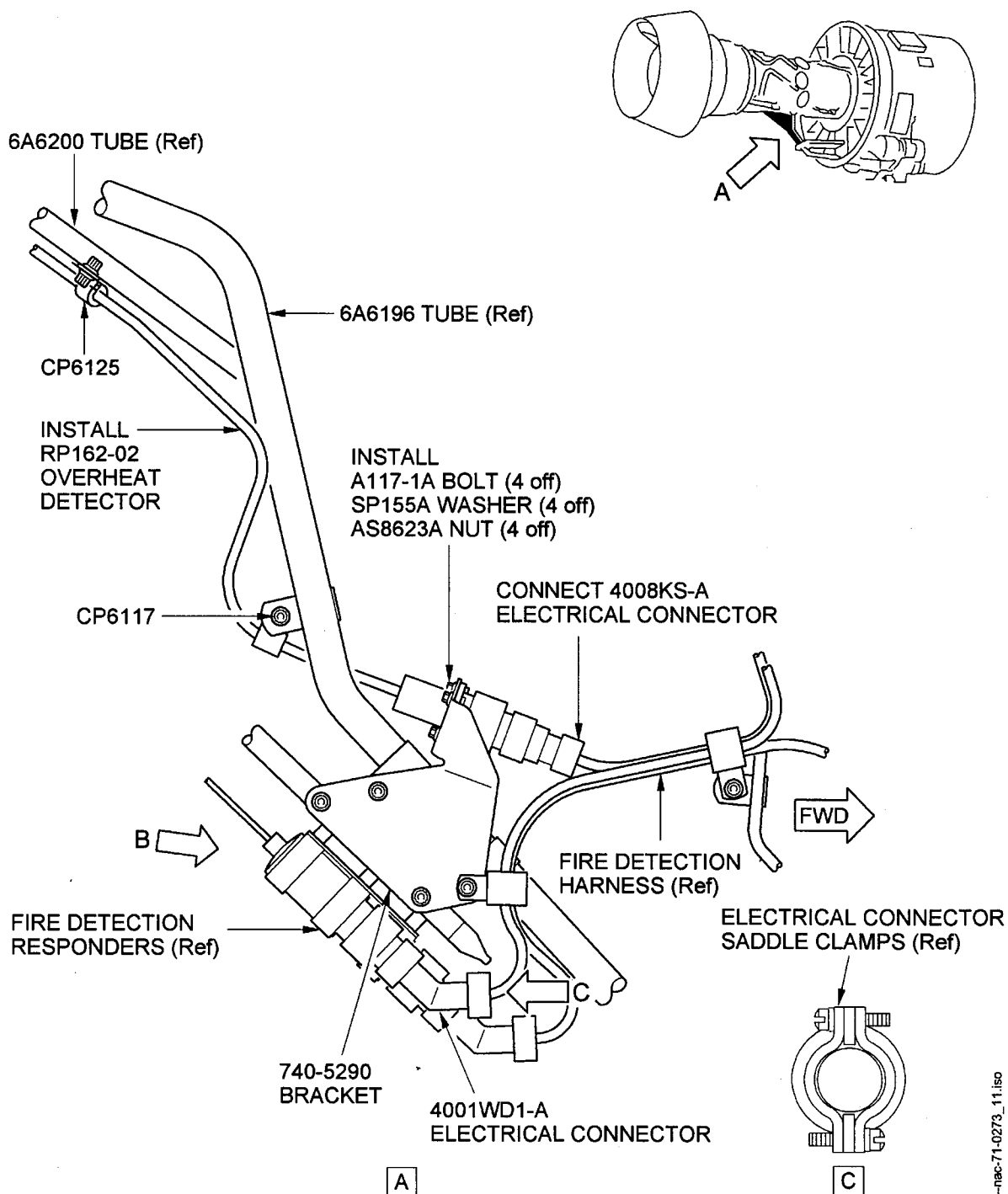


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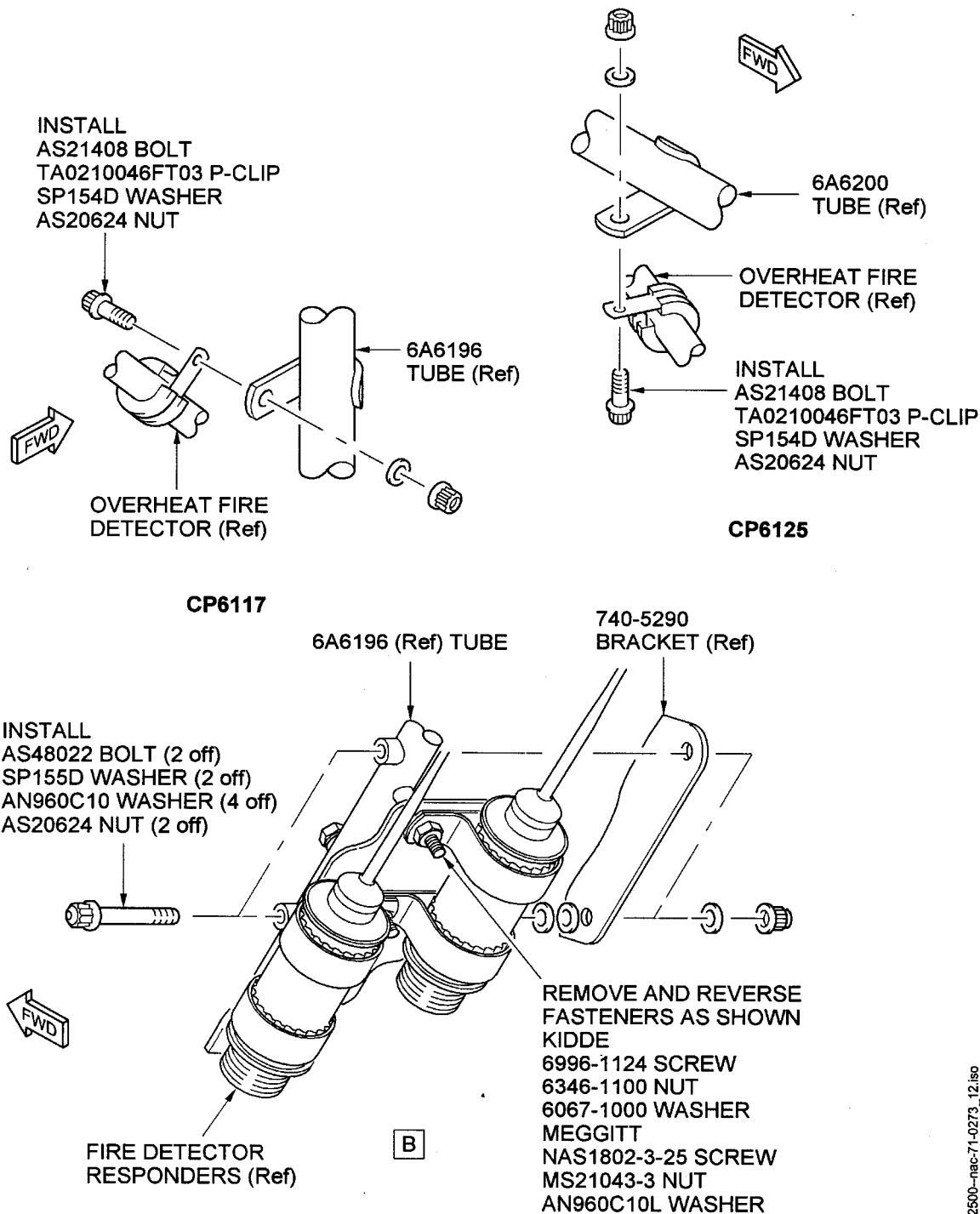
Installation of Clipping Point CP6115 on the Core Fire Detector
Figure 9

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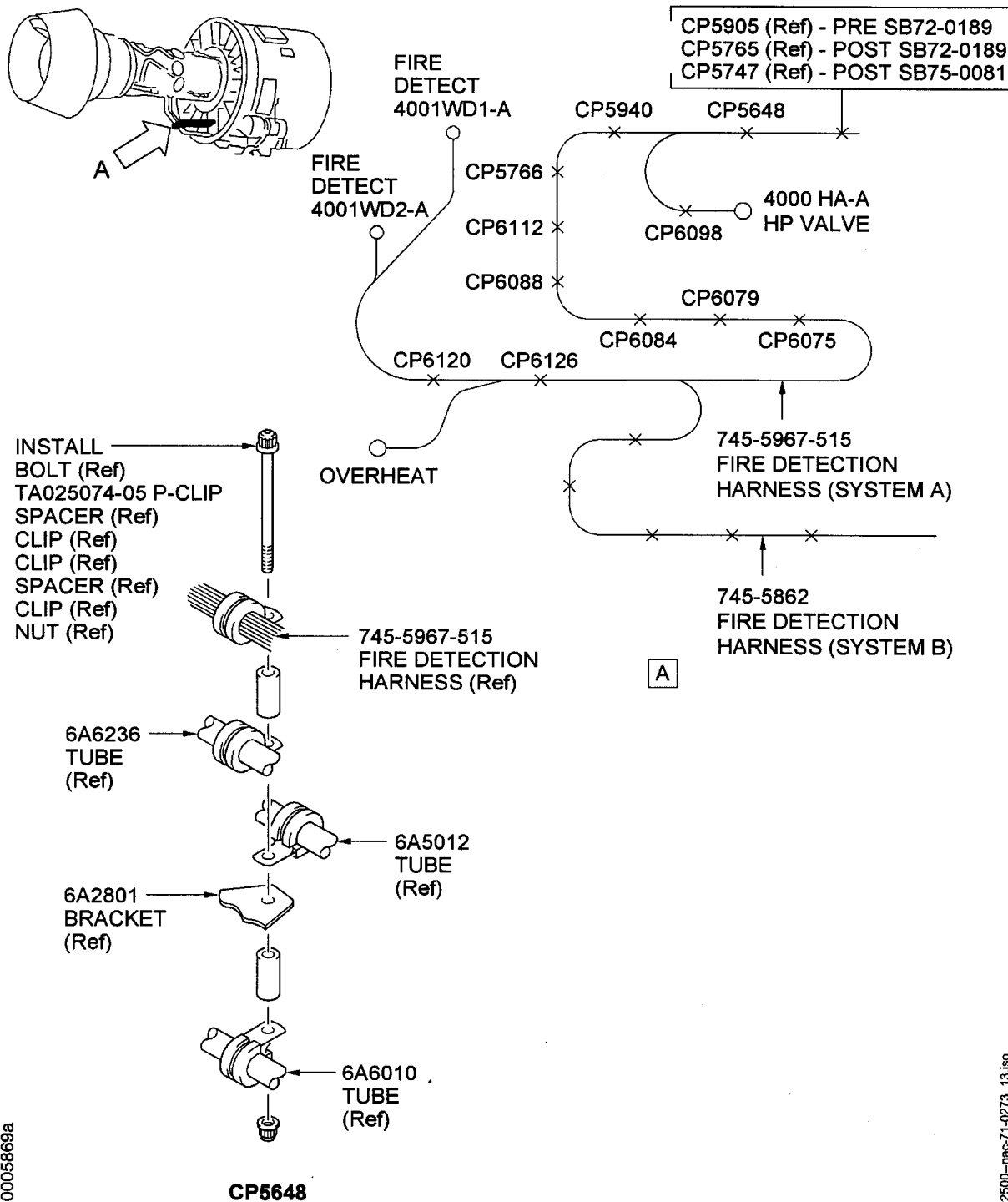


Installation of the Overheat Detector and Bracket
Figure 10, Sheet 1 of 2

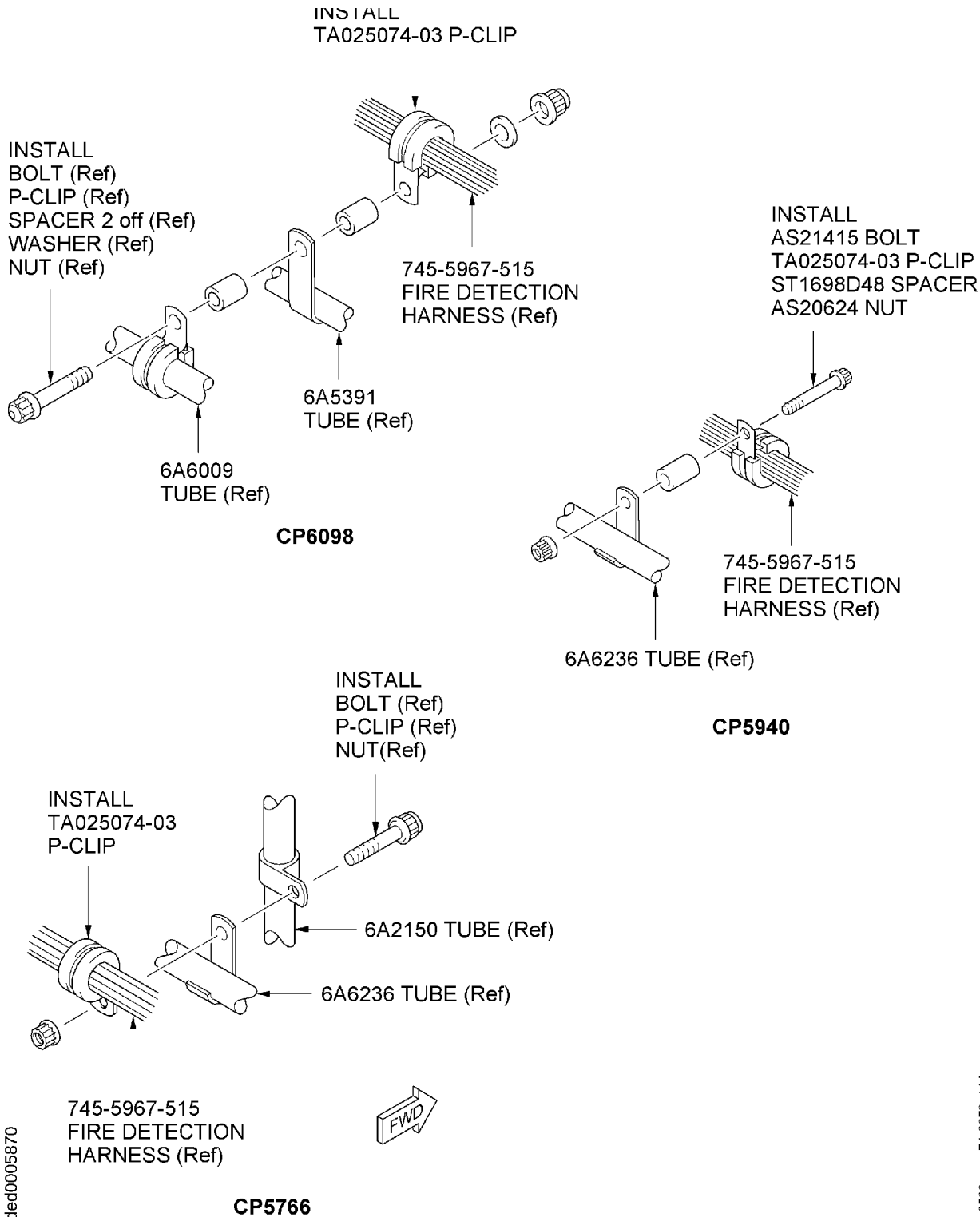


Installation of the Overheat Detector and Bracket
Figure 10, Sheet 2 of 2

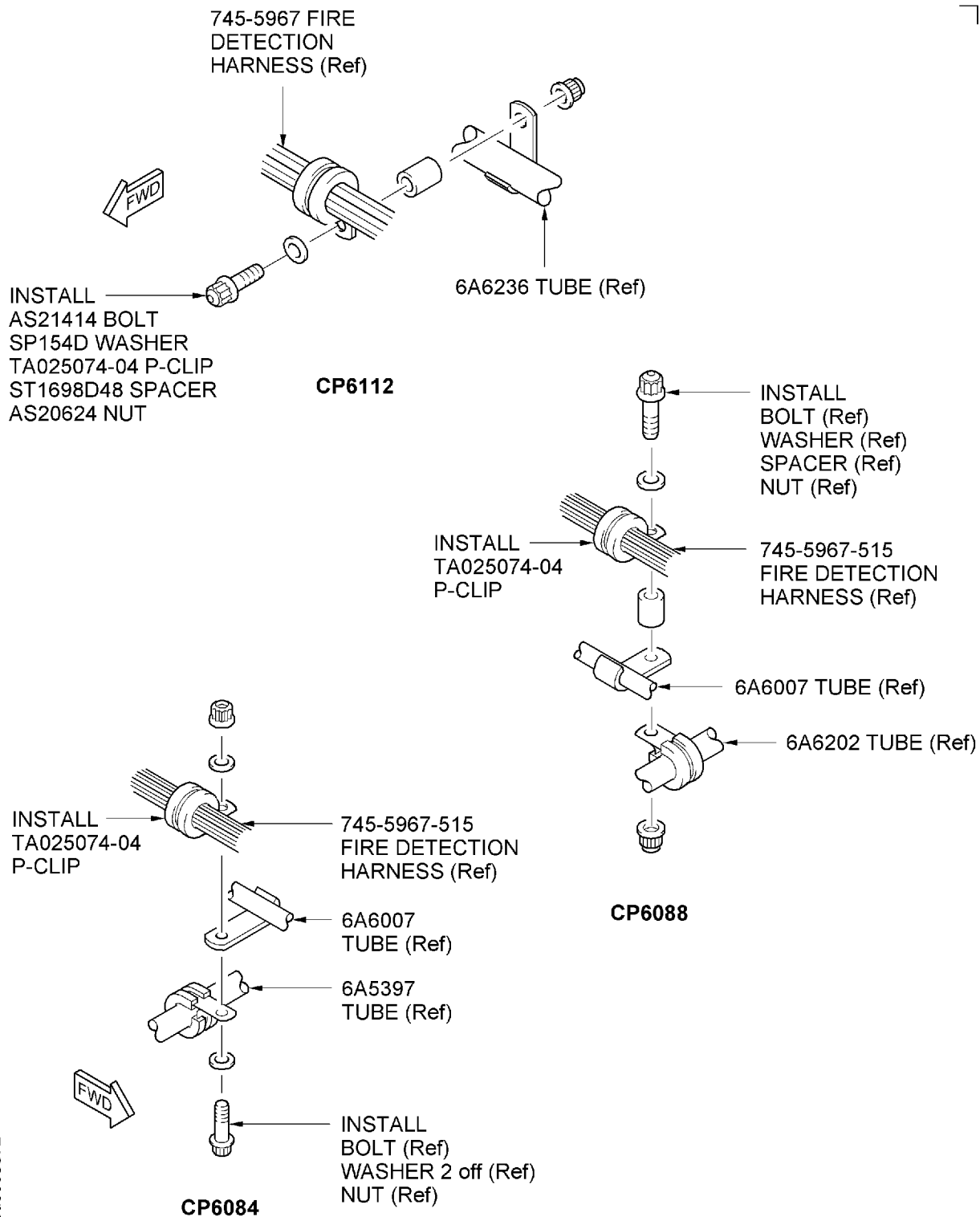
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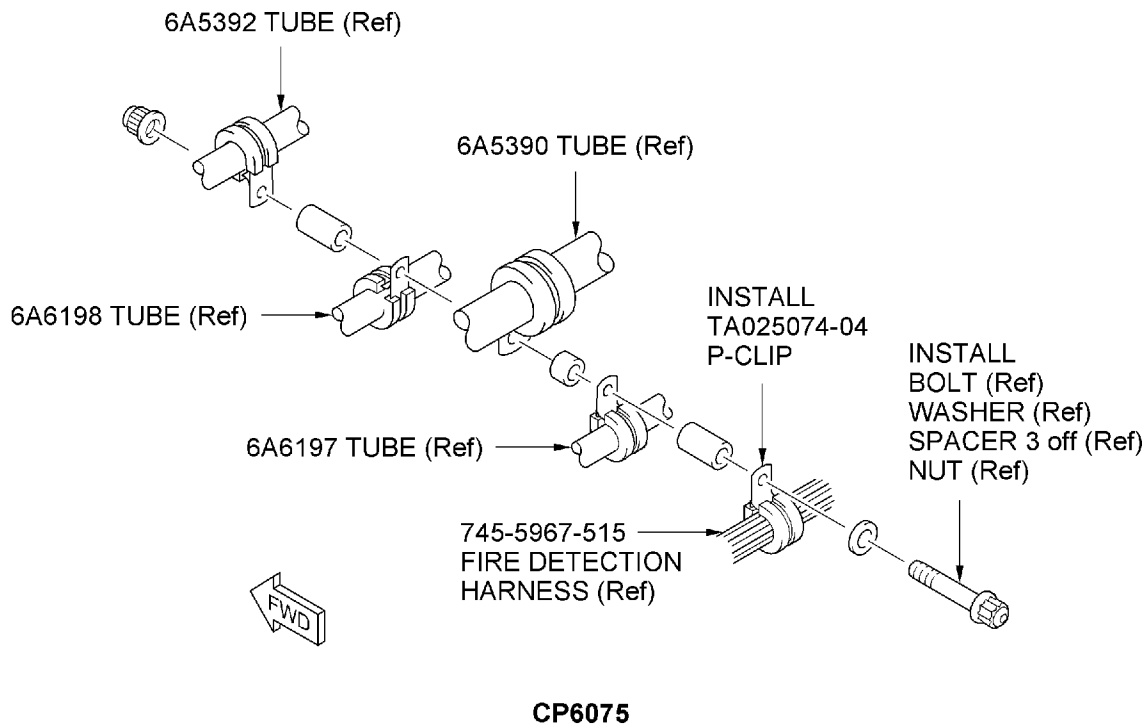
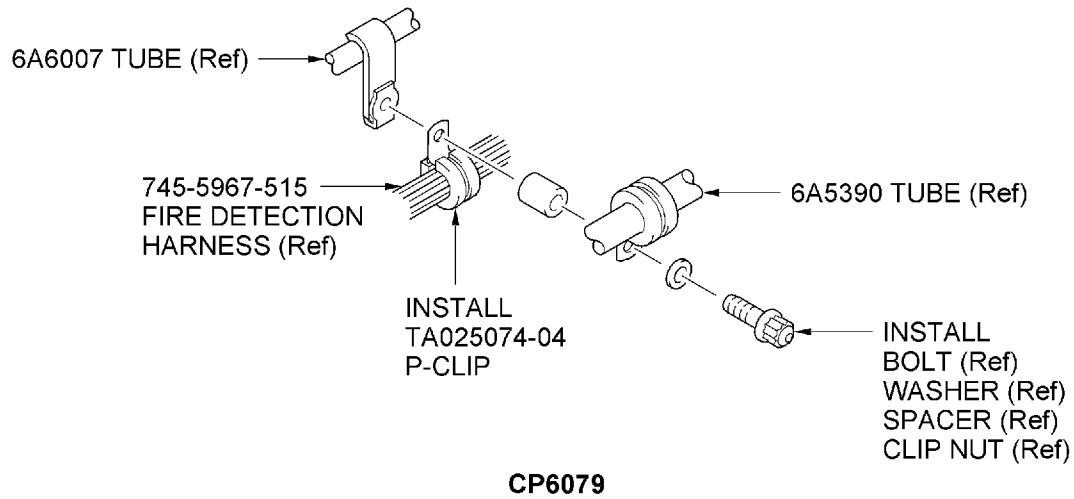
Installation of the Fire Detection Harness (System A)
 Figure 11, Sheet 1 of 5



Installation of the Fire Detection Harness (System A)
Figure 11, Sheet 2 of 5



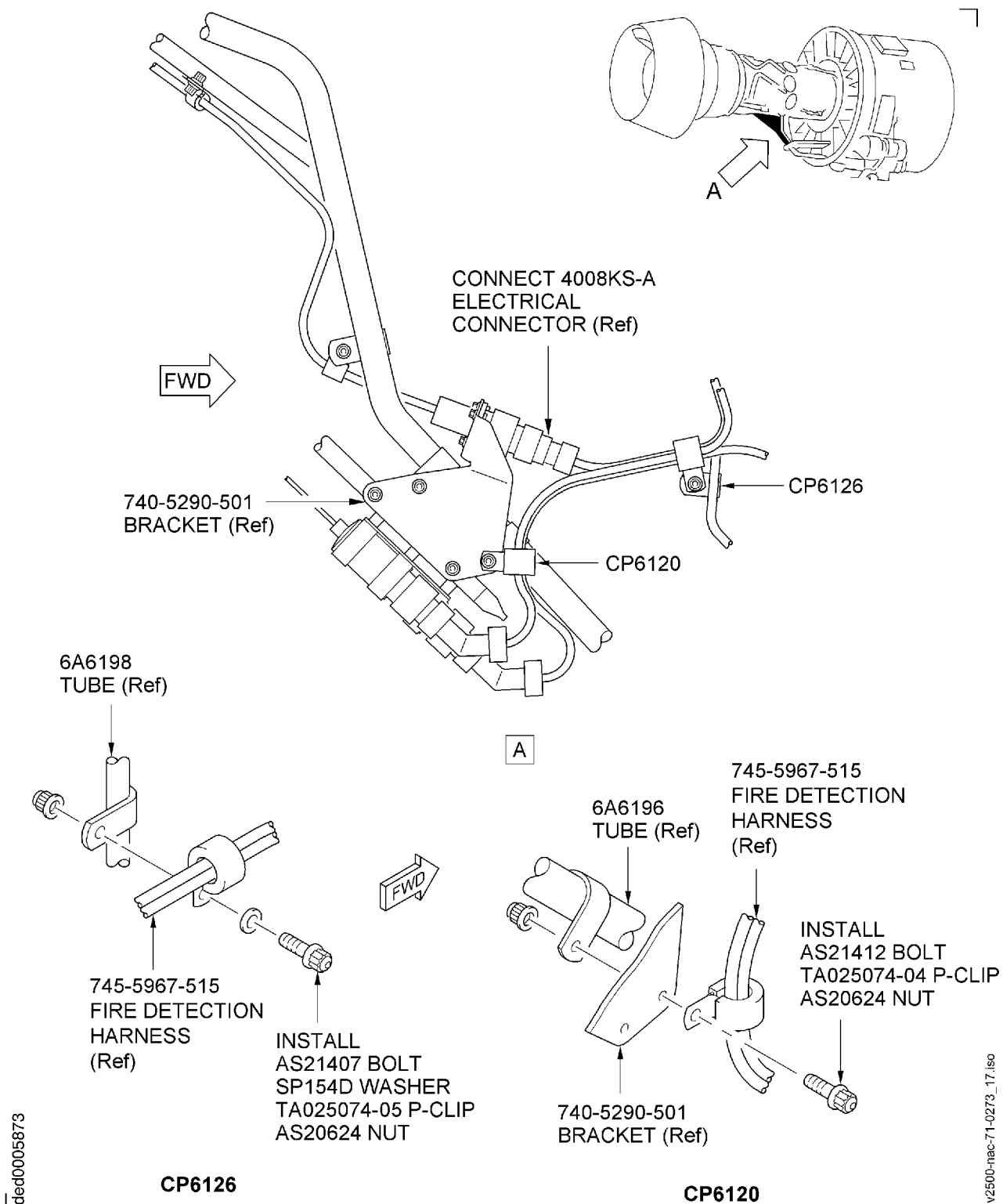
Partial Installation of the Fire Detection Harness (System A)
Figure 11, Sheet 3 of 5



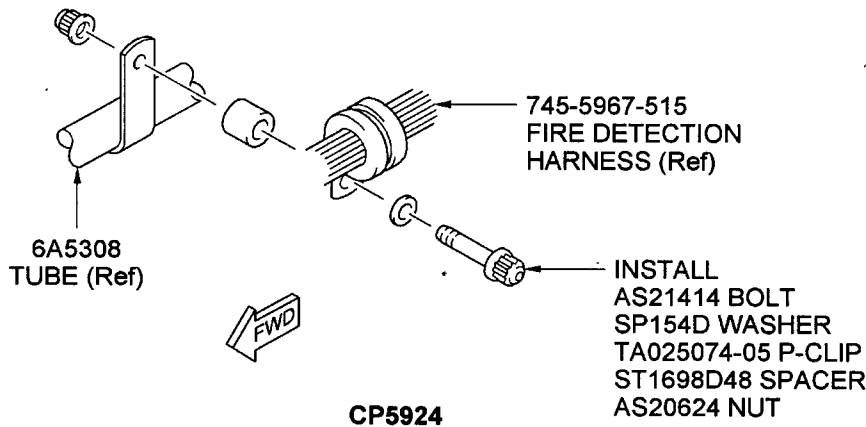
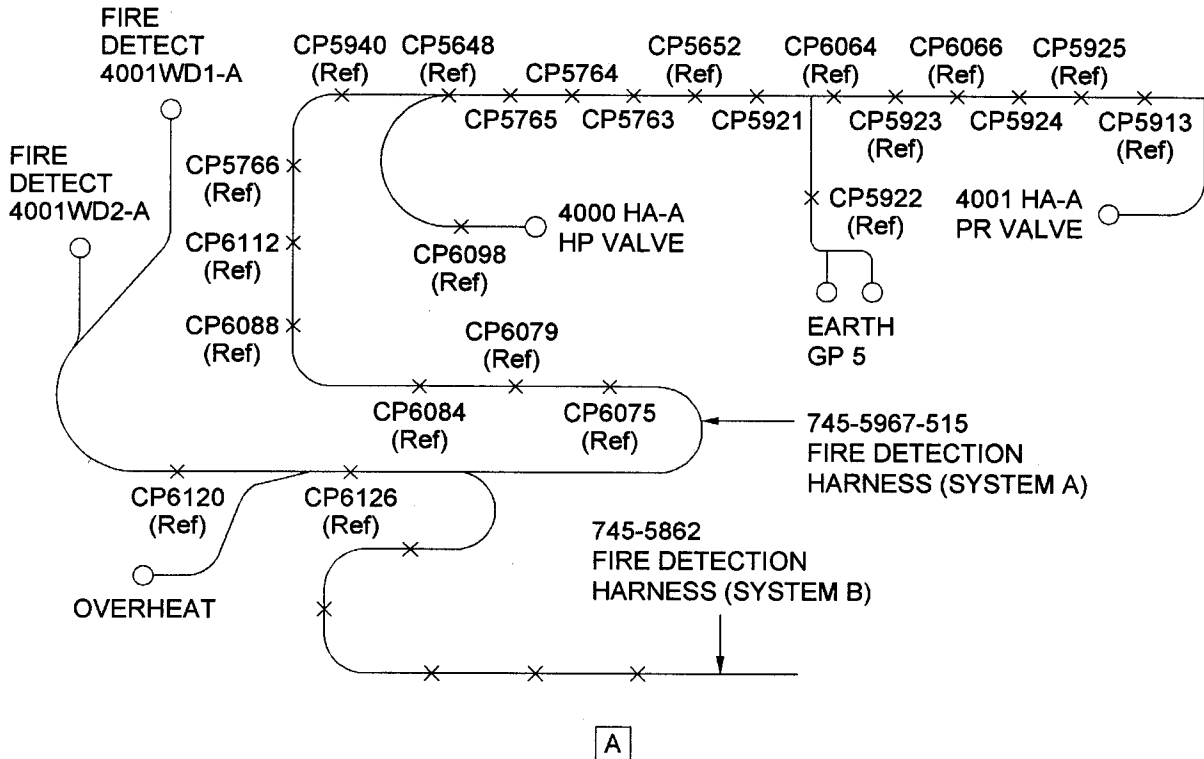
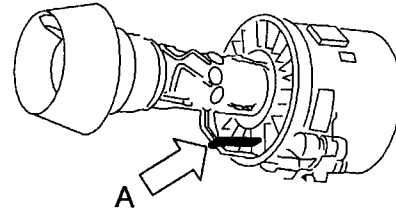
Partial Installation of the Fire Detection Harness (System A)
Figure 11, Sheet 4 of 5

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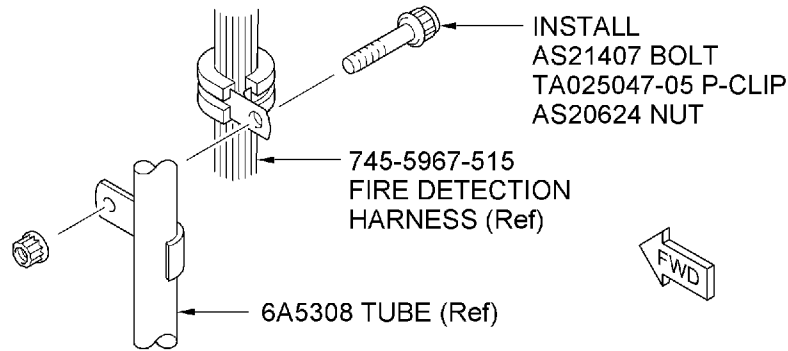
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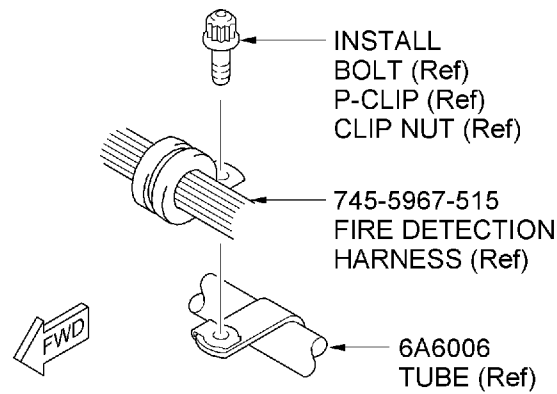
Partial Installation of the Fire Detection Harness (System A)
Figure 11, Sheet 5 of 5



Partial Installation of the Fire Detection Harness (System A)
Figure 12, Sheet 1 of 2



CP5921

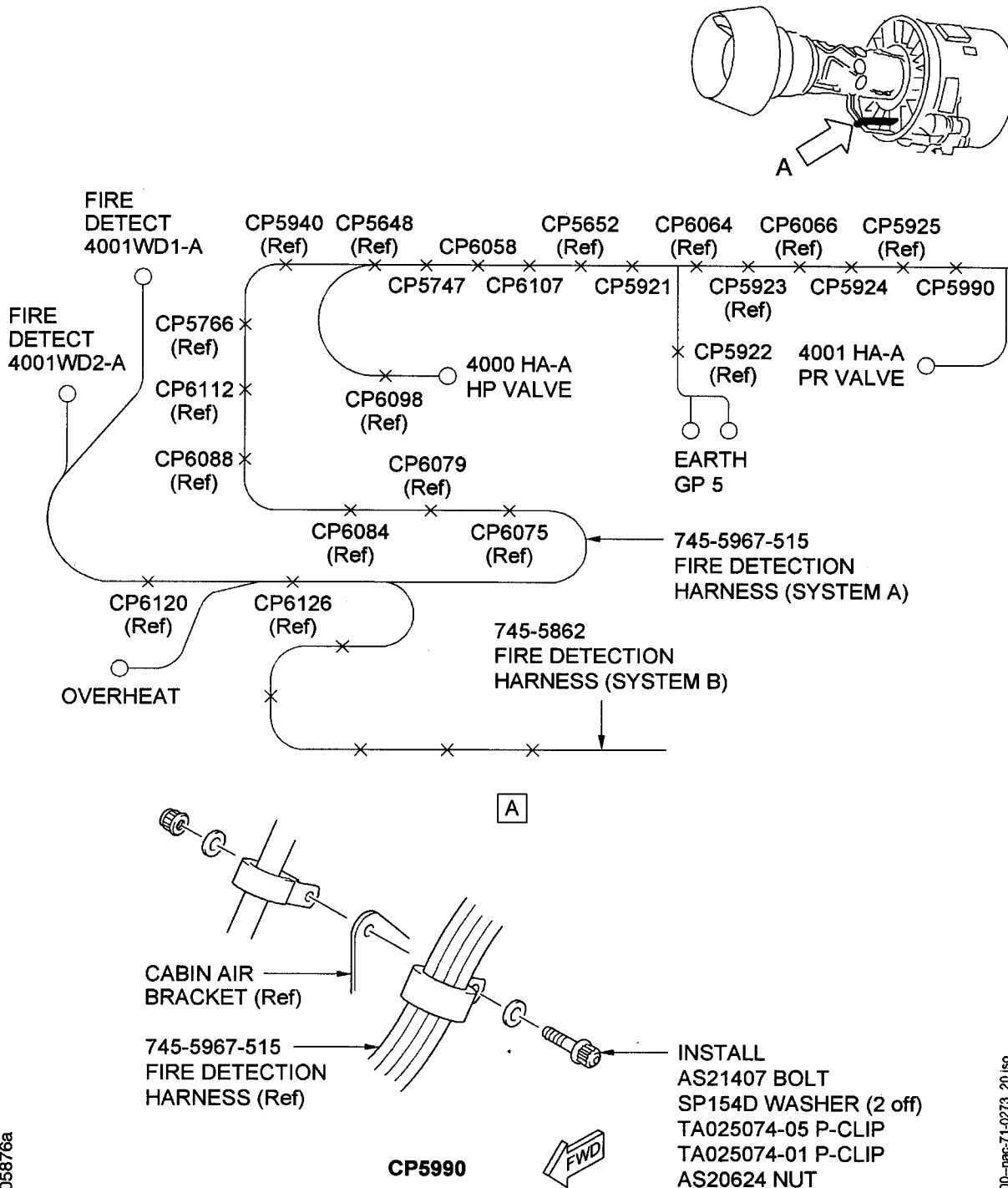


CP5763,CP5764 & CP5765

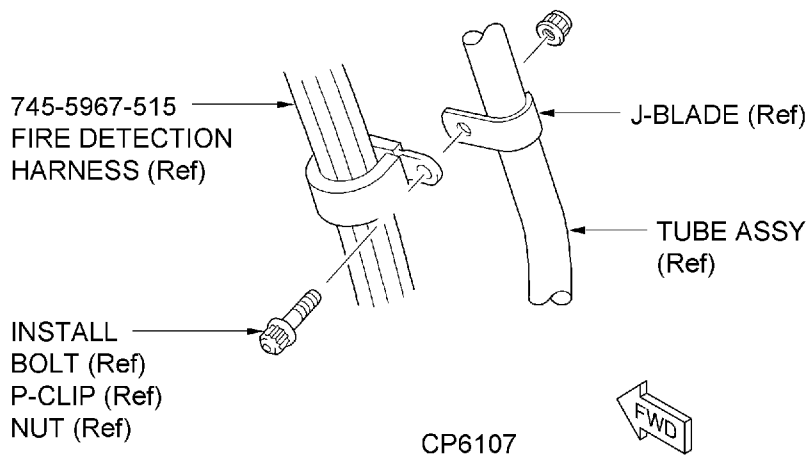
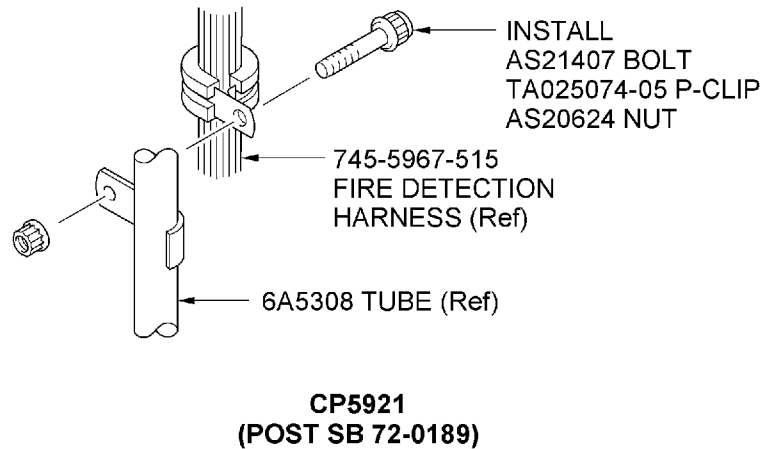
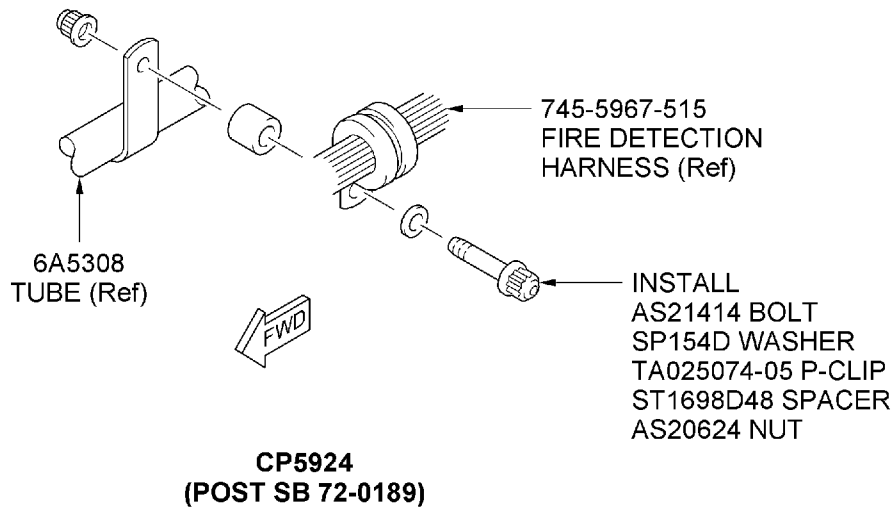
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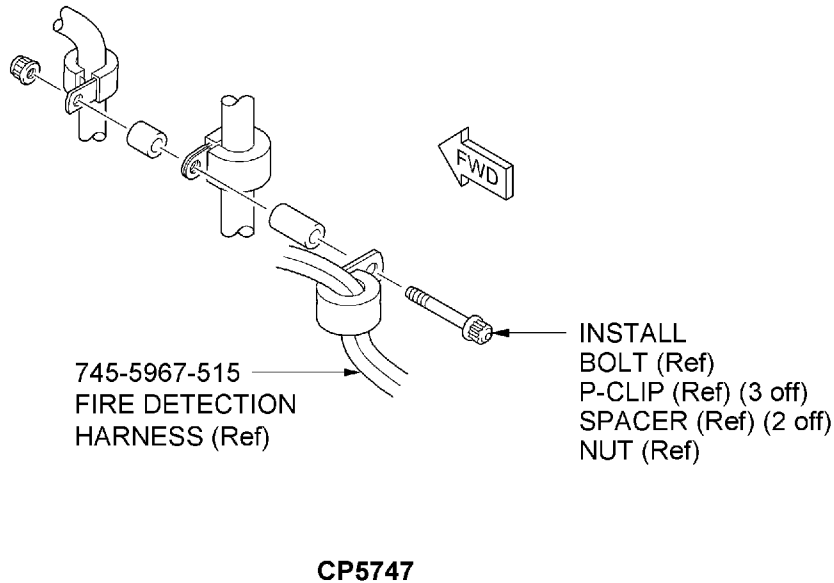
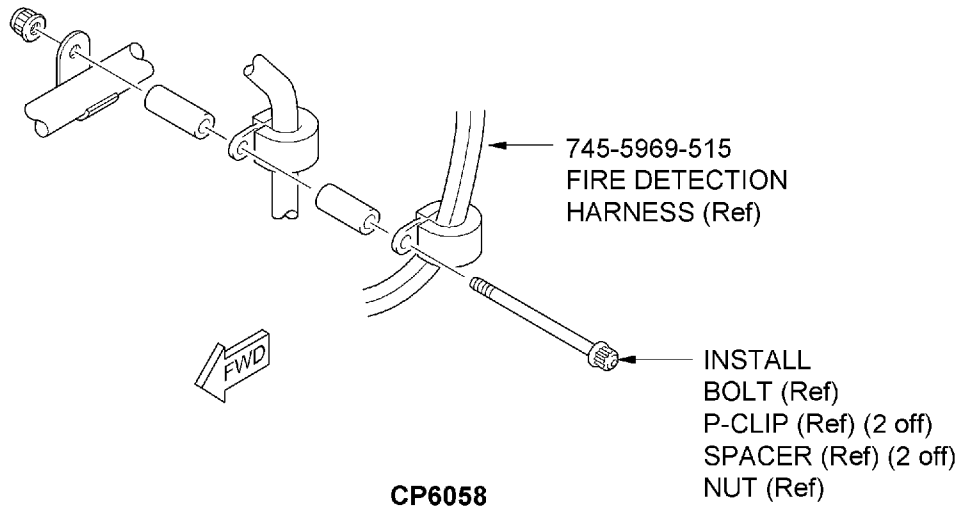
Partial Installation of the Fire Detection Harness (System A)
Figure 12, Sheet 2 of 2



Partial Installation of the Fire Detection Harness (System A)
 Figure 13, Sheet 1 of 3



Partial Installation of the Fire Detection Harness (System A)
Figure 13, Sheet 2 of 3



Partial Installation of the Fire Detection Harness (System A)
Figure 13, Sheet 3 of 3

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