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V2500-A5 SERIES PROPULSION SYSTEMS SERVICE BULLETIN

Printed in Great Britain

This document transmits the Initial Issue of Service Bulletin V2500-NAC-71-0312.

Service Bulletin Initial Issue

Remove	Incorporate	Reason for change
	Pages 1 to 13 of the Service Bulletin	Initial Issue

V2500-NAC-71-0312

Transmittal - Page 1 of 1

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NACELLE - POWERPLANT - DRAIN SYSTEM - REROUTING OF THE HYDRAULIC PUMP DRAIN TUBES1. Planning InformationA. Effectivity

(1) Airbus A319

(a) V2522-A5, V2524-A5, V2527M-A5 EBU serial numbers prior to 2776001 and between 2778001 to 2811001.

(2) Airbus A320

(a) V2527-A5, V2527E-A5 EBU serial numbers prior to 2776001 and between 2778001 to 2811001.

(3) Airbus A321

(a) V2530-A5, V2533-A5 EBU serial numbers prior to 2776001 and between 2778001 to 2811001.

B. Concurrent Requirements

Service Bulletin V2500-NAC-71-0169 "NACELLE - POWERPLANT - DRAIN TUBES AND COLLECTOR PLATE ASSEMBLY - REPLACEMENT OF" (For operators with EBU serial numbers prior to 136001 only).

C. Reason

(1) Problem:

The anti-swivel plate on the right hand fan cowl door no. 3 latch may chafe with the hydraulic pump drains pipe.

(2) Evidence:

An operator has reported damage to the hydraulic pump drains pipe. Upon investigation, it was discovered that there may be less than minimum clearance between the no. 3 latch anti-swivel plate on the right hand fan cowl door and the hydraulic pump drains pipe.

(3) Substantiation:

All hardware changes have been substantiated by satisfactory engineering analysis.

(4) Objectives:

The new hydraulic pump drains routing will improve clearance between the pipe assembly and the no. 3 latch anti swivel plate on the right hand fan cowl door.

(5) Effect of Bulletin on:

(a) Operation

Not affected.

(b) Maintenance

Not affected.

(c) Overhaul

Affected.

(d) Repair Scheme

Not affected.

(e) Interchangeability

Affected.

(f) Fits and Clearances

Affected.

(6) Supplemental Information

(a) The new hydraulic pump drains routing necessitates the replacement of the collector plate assembly and the hydraulic pump drains pipe assembly.

(b) To accommodate the new hydraulic pump drains routing, existing clipping points have been modified or deleted and a new clipping point has been introduced.

D. Description

The collector plate assembly and the hydraulic pump drains pipe assembly will be removed. A new collector plate assembly and the hydraulic pump drains pipe assembly, with revised routing, will be installed. Clipping points CP0942 and CP0959 will be amended. Clipping point CP0943 will be deleted and a new clipping point CP1491 will be introduced.

E. Compliance

Category Code 7

Accomplish when supply of superseded parts has been depleted.

F. Approval

The technical content of this Service Bulletin has been approved under the authority of the EASA Design Organization Approval No. EASA.21J.031. The authorizing IAE document is EC 08VN300.

G. Manpower

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

(1) In Service

Not applicable.

(2) At Overhaul

2.00 hrs.

NOTE: The parts affected by this Service Bulletin are accessible at overhaul.

H. Material Price and Availability

The parts to accomplish this Service Bulletin are available from the manufacturer as Kit No. V2571312-551.

Operators with units listed in Paragraph 1.A. should submit a purchase order for the applicable quantity of kits. The purchase order must specify this Service Bulletin number and the parts listed herein. Operators will have one year from the issue date of this Service Bulletin to place an order. After one year, kits may no longer be available and operators will be required to order parts individually at current catalog prices and lead times.

Direct request to:

Goodrich Aerospace

850 Lagoon Drive

Chula Vista, CA 91910-2098 USA

Attn: Regional Business Manager - MZ107A

(Service Bulletin No. V2500-NAC-71-0312)

I. Tooling Price and Availability

None.

J. Industry Support Information

Not applicable.

K. Weight and Balance

Not applicable.

L. Electrical Load Data

Not affected.

M. Software Accomplishment Summary

Not applicable.

N. References

- (1) IAE V2500 Aircraft Maintenance Manual (AMM), M-V25001IA, Chapter/Sections 71-71-42.
- (2) Internal Reference No.:
Engineering Change No. 08VN300.
- (3) Service Bulletin V2500-NAC-71-0169 "NACELLE - POWERPLANT - DRAIN TUBES AND COLLECTOR PLATE ASSEMBLY - REPLACEMENT OF".
- (4) Standard Practices Manual (SPP-V2500-1IA), Chapter/Sections 70-41-00, 70-41-01, 70-42-05 and 70-46-03.
- (5) Airbus aircraft modification No. 39448.

O. Other Publications Affected

- (1) IAE V2500 Engine Illustrated Parts Catalog, Chapter/Sections 71-71-42, 71-71-48 and 71-73-48.
- (2) IAE V2500 Aircraft Maintenance Manual (M-V2500-1IA), Chapter/Sections 71-71-42 and 71-71-43.
- (3) IAE V2500 Component Maintenance Manual for Tubes, Hoses and Ducts (CMM-THD-V2500-1IA), Chapter/Sections 71-73-48.

P. Interchangeability of Parts

Affected - Refer to Section 2 "Material Information".

2. Material Information

A. Kits required consist of the following parts

Applicability: For each V2500 Nacelle to incorporate this Service Bulletin.

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
	V2571312- 551	1	.Kit, hydraulic drain tube rerouting			(A)

Consisting of:

745-5682- -505	1	.Collector Plate Assembly
745-5698- -501	1	.Hydraulic Drains Pipe Assembly
AS21415	1	.Bolt
ST1698D47	2	.Spacer
400WSS4	1	.Clip
AS20624	2	.Nut

B. Parts to be reworked

None.

C. New production parts

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

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
71-71-42						
01-050	745-5682 -505	1	.Collector Plate Assembly		745-5682 -503	(B)(S1)
71-71-48						
03-125	AS21415	1	.Bolt (CP0942)		AS21411	(B)(1D)(S1)
03-130	ST1698D47	1	.Spacer (CP0942)		-	(B)(S1)
03-141	AS21408	1	.Bolt (CP1491)		-	(B)(S1)
03-142	SP154D	1	.Washer (CP1491)		-	(B)(S1)
03-144	400WSS4	1	.Clip (CP1491)		-	(B)(S1)
03-148	AS20624	1	.Nut (CP1491)		-	(B)(S1)
71-73-48						
01-500	745-5698 -501	1	.Hydraulic Drains Pipe Assembly		740-5698 -509	(B)(S1)

D. Redundant Parts

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
71-73-48						
01-150	-	1	.Bolt (CP0943)		AS21408	(1D)(S1)
01-151	-	1	.Clip (CP0943)		400WSS6	(1D)(S1)
01-153	-	1	.Washer (CP0943)		SP154D	(1D)(S1)
01-155	-	1	.Nut (CP0943)		AS20624	(S1)

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E. Instructions / Dispositions Codes

(A) New kit is currently available.

(B) New part are currently available.

(1D) Old part may be used in other applications.

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

F. Materials required to incorporate this Service Bulletin

CoMat

02-126

Lockwire

CoMat

10-077

Engine Oil

NOTE: To identify consumable materials, refer to the Overhaul Processes and Consumable Index (PCI-V2500-1IA).

3. Accomplishment Instructions

A. Pre-requisite InstructionsNone.

None.

B. Rework Instructions

WARNING: MAKE SURE THAT THE AIRCRAFT IS SAFE FOR MAINTENANCE. THIS WILL PREVENT INJURIES TO PERSONNEL AND/OR DAMAGE TO THE EQUIPMENT.

Operators with V2500-A5 Nacelle Engine Buildup Unit Serial Numbers prior to 136001 must have incorporated the intent of Service Bulletin V2500-NAC-71-0169 "NACELLE - POWERPLANT - DRAIN TUBES AND COLLECTOR PLATE ASSEMBLY - REPLACEMENT OF" prior to incorporation of this Service Bulletin.

- (1) At clipping point CP0943, remove the nut AS20624, the washer SP154D and the bolt AS21408 to release the p-clip 400WSS6 from the tube assembly the 740-5673-503 (Refer to Figure 1, view B).
- (2) At clipping point CP0943, remove the p-clip 400WSS6 from the 740-5673-503 tube assembly.
- (3) At clipping point CP0942, remove the bolt AS21411 or AS21415 and the spacer ST1698D47 or ST1698D48 to release the tube assembly 740-5702-509 and tube assembly 740-5673-503 from the bracket 740-5640-503 (Refer to Figure 1, view C).
- (4) At clipping point CP0942, remove the p-clip 400WSS4 from the tube assembly 740-5702-509 and the p-clip 400WSS6 from the tube assembly 740-5640-503.
- (5) At clipping point CP0959, remove the nut AS20624, the washer SP154D and the bolt AS21408 to release the p-clip 400WSS8 from the fan case fire detector (Refer to Figure 1, view D).
- (6) At clipping point CP0959, remove the p-clip 400WSS8 from the fan case fire detector.
- (7) Remove the collector plate 745-5682-501 or 745-5682-503 from the aircraft as instructed in the Aircraft Maintenance Manual, Chapter 71-71-42-000-010 (Refer to Figure 1, sheet 1).
- (8) Disconnect the hydraulic drain tube 740-5698-509 from the hydraulic pump union (Refer to Figure 1).



- (9) Connect the new hydraulic drains tube assembly 745-5698-501 to the hydraulic pump union (Refer to the Standard Practices Manual, Chapter 70-46-03).

NOTE: Do not torque the nuts on the drains tube assembly 745-5698-501 until all attaching hardware is installed in the correct position.

NOTE: Do not safety the drains tube assembly 745-5698-501 with lockwire until all attaching hardware is installed in the correct position and the nuts on the drains tube assembly are torqued.

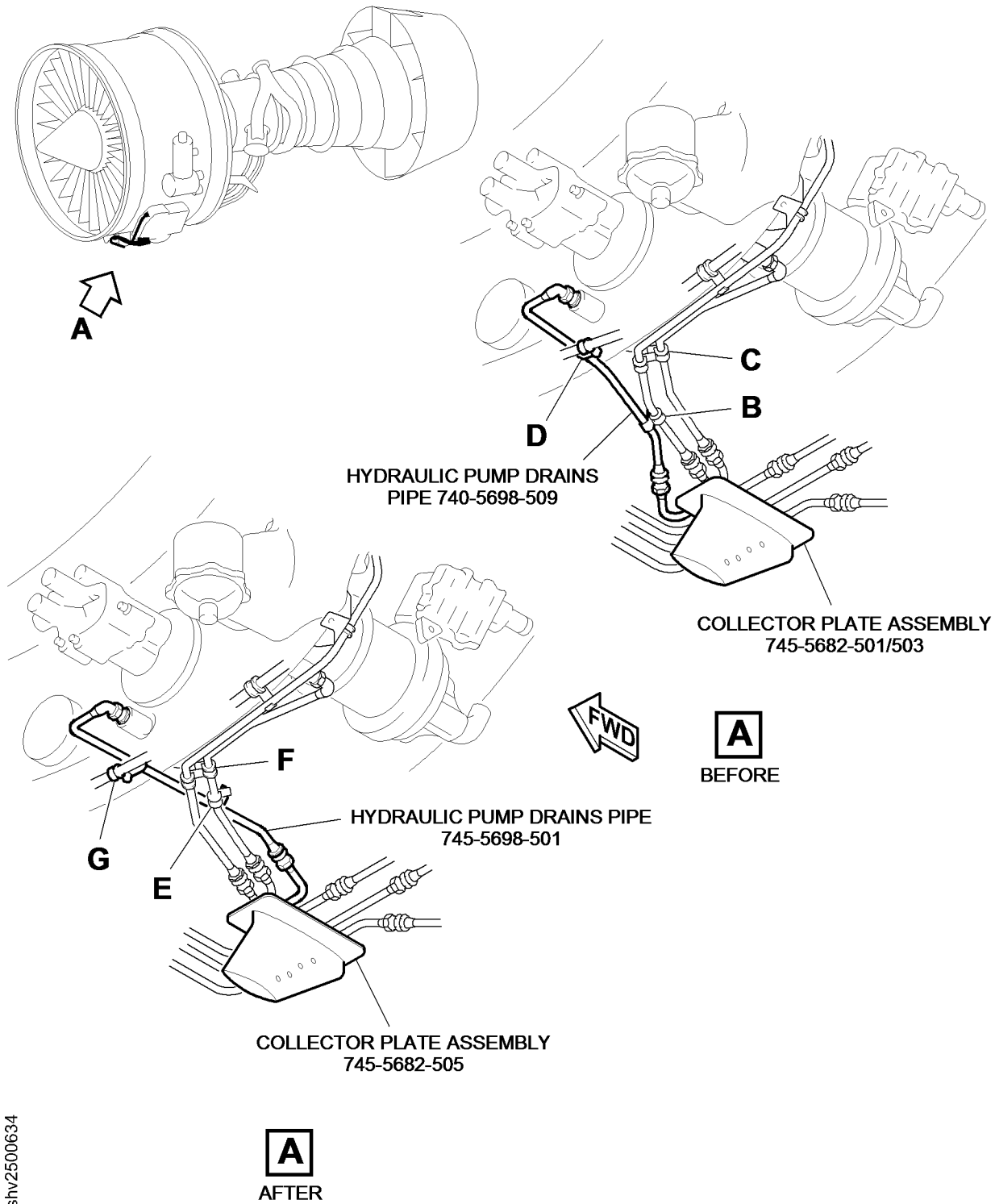
- (10) Install the collector plate 745-5682-505 to the aircraft (Refer to the Aircraft Maintenance Manual, Chapter 71-71-42-400-010).
- (11) At clipping point CP1491, fit the p-clip 400WSS4 on the tube assembly 740-5702-509 and secure to the drains tube assembly 745-5698-501 with the bolt AS21408, the washer SP154D and the nut AS20624 (Refer to Figure 1, view E).
- (12) At clipping point CP0942, fit the p-clip 400WSS4 on the tube assembly 740-5702-509 and the p-clip 400WSS6 on the tube assembly 740-5673-503 and secure to the bracket 740-5640-503 with the bolt AS21415 and the two spacers ST1698D47 (Refer to Figure 1, view F).
- (13) At clipping point CP0959, fit the p-clip 400WSS8 on the fan case fire detector and secure to the drains tube assembly 745-5698-501 with the bolt AS21408, the washer SP154D and the nut AS20624 (Refer to Figure 1, view G).
- (14) Torque the nuts on the drain tube to 105 - 115 lbfin (11,86 - 12,99 Nm) (Refer to the Standard Practices Manual, Chapter 70-41-01).
- (15) Safety the nut on the drain tube with lockwire (Co-Mat No. 02-126) (Refer to the Standard Practices Manual, Chapter 70-42-05).
- (16) At clipping points CP0959 and CP1491, torque the nuts AS20624 to 36 - 44 lbfin (4,07 - 4,97 Nm) (Refer to the Standard Practices Manual, Chapter 70-41-00).
- (17) At clipping point CP0942, torque the bolt AS21415 to 36 - 44 lbfin (4,07 - 4,97 Nm) (Refer to the Standard Practices Manual, Chapter 70-41-00).
- (18) Check for a minimum clearance of 0.25 in. (6,35 mm) between the drains tube assembly 745-5698-501 and adjacent hardware.

C. Post-requisite Instructions

None.

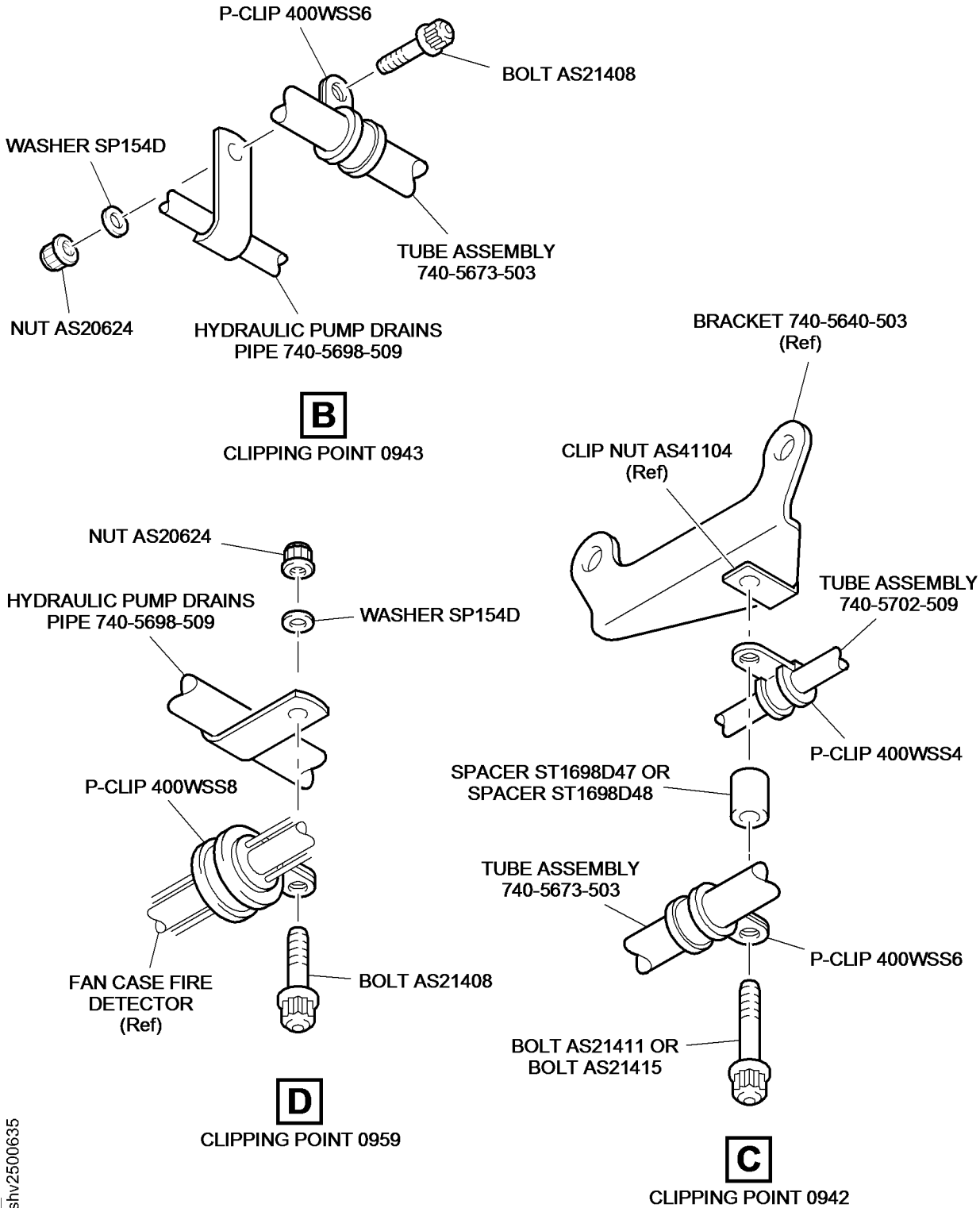
D. Recording Instructions

- (1) A record of accomplishment is necessary.

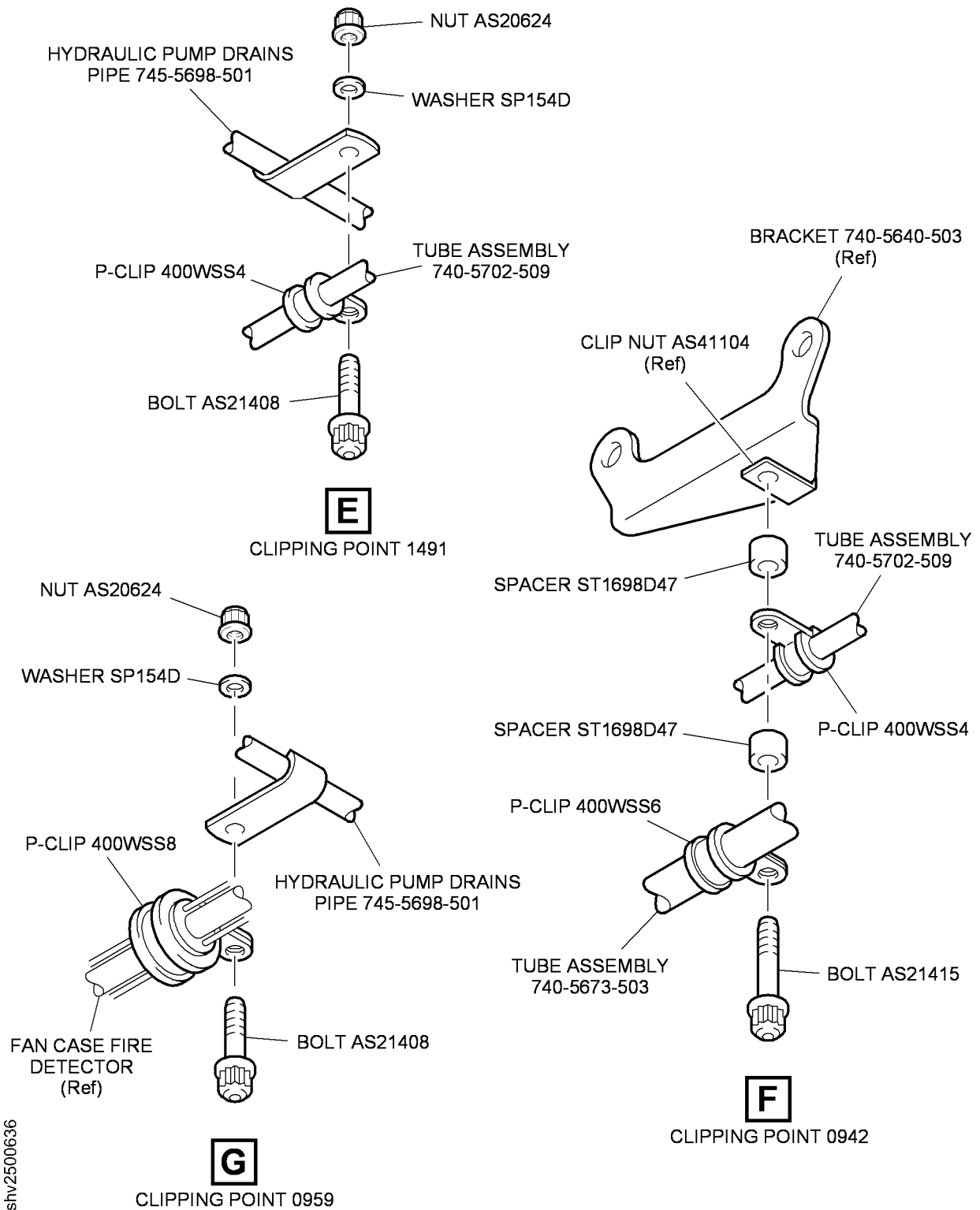


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Rerouting of the Hydraulic Drains Tube Assembly
Figure 1 (Sheet 1 of 3)



Rerouting of the Hydraulic Drains Tube Assembly
Figure 1 (Sheet 2 of 3)



Rerouting of the Hydraulic Drains Tube Assembly
Figure 1 (Sheet 3 of 3)