

**International Aero Engines****RR-DERBY**

400 MAIN STREET, MAIL STOP 121-10
 EAST HARTFORD, CT 06108, USA.
 TELEPHONE: 860 565 5515
 FAX: 860 565 0600

P.O. BOX 31, DERBY
 TELEGRAMS - 'ROYCAR' DERBY
 TELEX - 37645
 TELEPHONE - DERBY 242424

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V2500-A5 SERIES PROPULSION SYSTEMS SERVICE BULLETIN

This document transmits Revision 2 to Service Bulletin EV2500-72-0189

Document History

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 Initial Issue Jul.11/97
 Revision 1 Dec.5/97

Supplement Revision Status

Bulletin Revision 2

Remove
Pages 1 and 4 to 31
of the Service
Bulletin

Incorporate
Pages 1 and 4 to 34
of the Service
Bulletin

Reason for change
To delete reference to
CP5652, intended for A1
engines only

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Transmittal - Page 1 of 2

CHECK THAT ALL PREVIOUS TRANSMITTALS HAVE BEEN INCORPORATED

If any have not been received please advise Publication Services, Rolls-Royce plc, Derby, England

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LIST OF EFFECTIVE PAGES

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ENGINE – CORE ENGINE TUBES – TUBE ASSEMBLIES COUPLED TO BIFURCATION PANEL, RE-RUN TO
CLEAR COWL DOOR HOLD OPEN RODS

1. Planning Information

A. Effectivity

(1) Airbus A319

V2522-A5, V2524-A5 Engines prior to Serial No. V10059

(2) Airbus A320

V2527-A5 Engines prior to Serial No. V10059

(3) Airbus A321

V2530-A5 Engines prior to Serial No. V10059

R (4) ATA Locator 72-00-00

B. Concurrent Requirements

None.

C. Reason

(1) Condition

Insufficient clearance can exist between core engine tubes and the Hold Open Rod in the stowed position.

Insufficient clearance can also exist in the region of the stage 7 bleed valve.

(2) Background

An IAE/Airbus review on a class III mock up engine has highlighted the problem.

(3) Objective

Incorporation of this Service Bulletin is designed to maintain reliability.

(4) Substantiation

The changes introduced by this Service Bulletin have been the subject of satisfactory engineering analysis and a successful trial installation on a class III mock-up engine.



(5) Effect of Bulletin on Workshop Procedures

(a) Removal/Installation

R Affected.

(b) Disassembly/Assembly

R Affected.

(c) Cleaning

R Not affected.

(d) Inspection/Check

R Not affected.

(e) Repair

R Not affected.

(f) Testing

R Not affected.

(6) Supplemental Information

None.

D. Description

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

(a) A revised bifurcation raceway to support the EEC core harness is introduced similar to the existing item except for a reduction in length.

(b) The following brackets are deleted:

(i) Pratt and Whitney bracket assembly at clip point CP5642.

(ii) Open harness line break connector bracket assembly at clip point CP5693.

(iii) A Rohr support bracket and associated attaching parts.

(c) Four brackets are revised to suit the re-run tube assemblies.



(d) The following brackets are introduced:

- (i) A bracket mounted on the bifurcation panel to support the revised raceway.
- (ii) A clipping support bracket at clip point CP6073.
- (iii) A Rohr bracket at clipping points CP5222 and CP5942.
- (iv) A Rohr support bracket.

(e) A servo air pipe and a section of the igniter harness have been re-routed in the region of the stage 7 bleed valve and surrounding pipework (note – does not affect material information).

(f) A revised Rohr core services harness is introduced.

(g) The following tube assemblies are re-routed:

- (i) Fuel tube – FFM to distribution valve – Bifurcation panel to distribution valve.
- (ii) Air tube – HPV vent – EBU tee to bifurcation panel.
- (iii) Fuel tube – Bifurcation panel to disconnect.
- (iv) Oil feed to nos.1, 2, 3, 4 and 5 bearings – 4 way adaptor to disconnect.
- (v) Oil feed to no.1, 2 and 3 bearing – 4 way adaptor to disconnect.
- (vi) Oil feed to no.4 bearing – 4 way adaptor to disconnect.
- (vii) Oil feed to no.5 bearing – 4 way adaptor to disconnect.
- (viii) Air tube assembly – stage 7 HPC to bleed control valve – Bifurcation panel to disconnect.
- (ix) Air tube – bleed valve control solenoid to on/off valve – Bifurcation panel to disconnect.
- (x) Air tube P2.5 to EEC – Disconnect to bifurcation panel.
- (xi) Air tube P4.9 to EEC P5 connect line – Disconnect to bifurcation panel.
- (xii) Air tube – stage 7 bleed control valve – Bifurcation panel to valve.



- (xiii) Air tube – P3 to No.4 bearing scavenge – Disconnect to bifurcation panel.
- (xiv) Air tube – PS3 to EEC – Disconnect to bifurcation panel.
- (xv) Air tube – Stage 7 HPC bleed control valve – Bifurcation panel to disconnect
- (xvi) Air tube – Stage 10 HPC bleed control valve – Bifurcation panel to disconnect.
- (xvii) Air tube – disconnect to stage 7 bleed valve.
- (xviii) 5 Rohr tube assemblies are also re-routed.

(h) The following clip points are deleted:

CP5221, CP5640, CP5642, CP5650, CP5653, CP5654, CP5658, CP5665,
CP5666, CP5671, CP5693, CP5696, CP5700, CP5704, CP5712, CP5767,
CP5779, CP5780, CP5781, CP5782, CP5783, CP5804, CP5820, CP5821,
CP5883, CP5901, CP5904, CP5905, CP5918, CP5919.

(i) The following clip points are amended:

CP5222, CP5223, CP5553, CP5595, CP5641, CP5643, CP5647, CP5648,
CP5659, CP5660, CP5664, CP5667, CP5668, CP5670, CP5675, CP5676,
CP5678, CP5679, CP5711, CP5713, CP5714, CP5763, CP5764, CP5765,
CP5766, CP5831, CP5832, CP5835, CP5998.

(j) The following clip points are added:

CP5931, CP5937, CP5938, CP5939, CP5940, CP5941, CP5942, CP6072,
CP6073, CP6074, CP6075, CP6076, CP6077, CP6078, CP6079, CP6080,
CP6081, CP6082, CP6083, CP6084, CP6085, CP6086, CP6087, CP6088,
CP6089, CP6090, CP6091, CP6092, CP6093, CP6094, CP6095, CP6096,
CP6097, CP6098, CP6099, CP6100, CP6101, CP6102, CP6103, CP6104.

E. Approval

The part number changes and/or part modifications described in section 2 and 3 of this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA approved for the Engine Model Listed.

F. Compliance

Category Code 8.

Accomplish based upon experience with the prior configuration.



G. Manpower

Estimated manhours to incorporate the full intent of this bulletin.

(1) In Service

Not applicable

(2) At Overhaul

No more time is necessary to do this Service Bulletin.

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

H. Material, Price and Availability

(1) Modification kit is not required.

(2) See Material Information section for prices and availability of future spares.

I. Tooling, Price and Availability

Special tools are not required.

J. Weight and Balance

(1) Weight change

Plus 0,73 kg (1.6 lb)

(2) Moment arm

457 mm (18.0in.) rearwards

(3) Datum

Engine front mount centreline (Power Plant Station - PPS 100)

K. Electrical Load Data

This Service Bulletin has no effect on aircraft electrical load.

L. References

(1) The V2500 Engine Manual, Chapter/Section 72-00-40, Removal/Installation.

(2) The Aircraft Maintenance Manual, Chapter/Section 71-52-41 and 73-11-41.

R (3) Internal reference 93VR037



M. Other Publications Affected

- R
- (1) Illustrated Parts Catalog Chapter/Section, 36-11-47, 36-21-49, 71-52-41, 71-52-50, 71-17-49, 73-22-49, 75-23-48 and 75-32-49.
 - (2) The V2500 Engine Manual, Chapter/Section 72-00-40.
 - (3) The Aircraft Maintenance Manual, Chapter/Section 71-52-41 and 73-11-41.



2. Material Information

A. Material, Price and Availability

The prices shown are for estimating purposes only and as such are given in good faith without commercial liability for advanced planning purposes only. Refer to IAE Spares and or current Price Catalog for current prices.

(1) Modification kit

(a) Modification kit not required; existing parts can be reworked.

B. New production parts

	PART NO.	QTY	UNIT PRICE
R	AS21114	1	9.21
R	AS21414	2	7.58
R	AS21415	1	6.38
R	AS61903	1	8.86
R	AS62404	27	21.50
R	AS62405	9	21.50
R	AS62406	2	22.40
R	AS62407	2	32.30
R	AS62408	9	23.10
R	AS62410	1	23.90
R	AS62412	7	24.90
R	AS62501	4	8.43
R	AS62502	1	8.50
R	AS62506	3	9.31
R	AS62507	4	9.59
R	AS62508	2	9.87
R	AS62509	2	10.30
R	AS62511	1	13.10
R	AS62515	1	11.90
R	AS62516	3	11.90
R	AS62517	1	14.50
R	LK42781	11	19.30
R	LK44011	1	9.18
R	LK51288	4	16.20
R	LK64582	7	6.30
R	LK65478	1	27.80
R	LK68463	1	8.27
R	LK69353	11	8.66
R	ST1455-05	1	10.50
R	ST1698D47	2	POA
R	ST1698D48	2	POA
R	TA0210046	1	3.81
	FT05		

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



	PART NO.	QTY	UNIT PRICE
R	TA025022	1	13.90
	FT04		
R	TA025074-03	7	6.77
R	TA025074-05	2	7.11
R	UP10478	1	10.90
R	400WSS4	2	6.10
R	4W0001	24	3.23
R	4W0043	20	2.47
R	4W0101	1	6.77
R	4W0102	21	5.66
R	4W0103	8	4.63
R	4W0105	2	4.63
R	4W0106	4	4.63
R	4W0107	2	5.03
R	4W0108	6	8.39
R	4W0109	1	4.43
R	4W0110	1	4.82
R	4W0111	1	4.29
R	4W0112	2	2.95
R	4W0113	3	8.62
R	4W0115	1	3.34
R	4W0116	1	12.40
R	4W0119	3	4.78
R	4W0125	1	4.78
R	4W0128	1	9.06
R	4W0129	1	5.65
R	4W0130	1	7.34
R	4W0163	2	8.59
R	4W0165	2	5.50
R	5W1031	1	11.90
R	5W1086	2	0.40
R	6A5390	1	1079.00
R	6A5391	1	541.00
R	6A5392	1	1308.00
R	6A5393	1	940.00
R	6A5394	1	1439.00
R	6A5395	1	1702.00
R	6A5396	1	1356.00
R	6A5397	1	1102.00
R	6A5748	1	35.80
R	6A5749	1	39.60
R	6A5750	1	74.40
R	6A5758	1	195.00
R	6A5824	1	113.00
R	6A5825	1	184.00
R	6A6005	1	5.29
R	6A6006	1	886.00
R	6A6007	1	414.80
R	6A6008	1	367.00



	PART NO.	QTY	UNIT PRICE
R	6A6009	1	660.00
R	6A6010	1	679.00
R	6A6011	1	535.00
R	6A6012	1	371.00
R	6A6013	1	3.90
R	6A6020	1	569.00

C. Parts affected by this Bulletin

Applicability: For each V2500 Engine to incorporate this Bulletin.

36-11-47

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01-100	6A5391	1	Tube Assembly of, Air - HP Vent to bifurcation panel	6A2136	(A)(F)(S1)
01-128	-	1	Clip (CP5766)	400WSS4	(G)(1D)
01-136	-	1	Clip (CP5782)	400WSS4	(G)(1D)
01-144	-	1	Clip (CP5783)	400WSS4	(G)(1D)
01-152	AS62404	1	Clip (CP6094) (0.250in. dia)	-	(A)(B)
01-160	AS62404	1	Clip (CP6095) (0.250in. dia)	-	(A)(B)
01-168	AS62404	1	Clip (CP6097) (0.250in. dia)	-	(A)(B)

36-21-49

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01-100	740-5089 -505	1	Tube assembly (Rohr)	740-5089 -503	(A)(F)(S1)
01-150	4W0101	1	Bolt, machine, double hex (0.190in. dia x 0.375in.) (CP5931)	-	(A)(B)
01-154	TA025022 FT04	1	Clip (CP5931)	-	(A)(B)
01-158	4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP5931)	-	(A)(B)
01-510	745-5645 -505	1	Tube assembly (Rohr)	745-5645 -503	(A)(F)(S1)

71-51-44



FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01-095	-	1	Washer (CP5595)	5W1086	(G)(1D)
01-097	AS62501	1	Clamp, loop style, cushion (0.062in. dia) (CP5595)	TA025074 -01	(A)(S1)
01-097	-	Ref	Clamp, loop style, cushion (0.062in. dia) (CP5595)	AS61931	(G)(1D)
01-098	LK42781	1	Spacer (CP5595)	-	(A)(B)
01-099	LK68463	1	Spacer (CP5595)	5W1033	(A)(S1)
01-102	-	1	Bolt, machine, double hex (0.190in. dia x 0.562in.) (CP5654)	4W0104	(G)(1D)
01-103	-	2	Washer (CP5654)	5W1086	(G)(1D)
01-105	-	1	Clamp, loop style, cushion (0.250in. dia) (CP5654)	TA025074 -04	(G)(1D)
01-105	-	Ref	Clamp, loop style, cushion (0.250in. dia) (CP5654)	AS61902	(G)(1D)
01-109	-	1	Nut, self locking double hex (0.190in. dia) (CP5654)	4W0001	(G)(1D)
01-113	-	1	Clamp, loop style, cushion (0.250in. dia) (CP5671)	TA025074 -04	(G)(1D)
01-113	-	Ref	Clamp, loop style, cushion (0.250in. dia) (CP5671)	AS61902	(G)(1D)
01-118	-	1	Bolt, machine, double hex (0.190in. dia x 1.250in.) (CP5675)	4W0115	(H)(1D)
01-119	-	1	Washer (CP5675)	5W1086	(G)(1D)
01-121	-	1	Clamp, loop style, cushion (0.062in. dia) (CP5675)	TA025074 -01	(J)(1D)
01-121	-	Ref	Clamp, loop style, cushion (0.062in. dia) (CP5675)	AS61931	(G)(1D)
01-123	-	1	Spacer, sleeve (15 mm) (CP5675)	5W1031	(K)(1D)
01-125	-	1	Nut, Assembly of, self locking (0.190in. dia) (CP5675)	4W0043	(L)(1D)
01-134	-	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP5696)	4W0102	(G)(1D)
01-135	-	1	Washer (CP5696)	5W1086	(G)(1D)
01-137	-	1	Clamp, loop style, cushion (0.062in. dia) (CP5696)	TA025074 -01	(G)(1D)
01-137	-	Ref	Clamp, loop style, cushion (0.062in. dia) (CP5696)	AS61931	(G)(1D)
01-141	-	1	Nut, assembly of, self locking (0.190in. dia) (CP5696)	4W0043	(G)(1D)
01-150	4W0107	1	Bolt, machine, double hex (0.190in. dia x 0.750in.) (CP5713)	4W0105	(A)(S1)(1D)
01-151	-	2	Washer (CP5713)	5W1086	(G)(1D)



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	FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
	01-153	AS62509	1	Clamp, loop style, cushion (0.562in. dia) (CP5713)	TA025074 -09	(A)(S1)(1D)
	01-153	-	Ref	Clamp, loop style, cushion (0.562in. dia) (CP5713)	AS61907	(G)(1D)
	01-155	LK64582	1	Spacer (CP5713)	-	(A)(B)
R	01-158	4W0103	1	Bolt, machine, double hex (0.190in. dia x 0.500in.) (CP5714)	4W0109	(A)(S1)
	01-159	-	2	Washer (CP5714)	5W1086	(G)(1D)
	01-161	AS62509	1	Clamp, loop style, cushion (0.562in. dia) (CP5714)	TA025074 -09	(A)(S1)
	01-161	-	Ref	Clamp, loop style, cushion (0.562in. dia) (CP5714)	AS61907	(G)(1D)
R	01-270	4W0103	1	Bolt, machine, double hex (0.190in. dia x 0.500in.) (CP6091)	-	(A)(B)
	01-273	AS62515	1	Clamp, loop style, cushion (0.938in. dia) (CP6091)	-	(A)(B)
	01-277	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP6091)	-	(A)(B)
	01-281	AS62506	1	Clamp, loop style, cushion (0.375in. dia) (CP6075)	-	(A)(B)
R	01-286	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP6072)	-	(A)(B)
	01-287	5W1086	1	Washer (CP6072)	-	(A)(B)
	01-289	AS62501	1	Clamp, loop style, cushion (0.062in. dia) (CP6072)	-	(A)(B)
	01-293	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP6072)	-	(A)(B)
R	01-294	4W0113	1	Bolt, machine, double hex (0.190in. dia x 1.125in.) (CP6074)	-	(A)(B)
	01-297	AS62501	1	Clamp, loop style, cushion (0.062in. dia) (CP6074)	-	(A)(B)
	01-299	LK42781	1	Spacer (CP6074)	-	(A)(B)
R	01-310	4W0103	1	Bolt, machine, double hex (0.190in. dia x 0.500in.) (CP6099)	-	(A)(B)
	01-313	AS62506	1	Clamp, loop style (0.375in. dia) (CP6099)	-	(A)(B)
	01-317	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP6099)	-	(A)(B)
R	01-318	4W0108	1	Bolt, machine, double hex (0.190in. dia x 0.812in.) (CP6103)	-	(A)(B)



FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01-321	AS62516	1	Clamp, loop style, cushion (1.000in. dia) (CP6103)	-	(A)(B)
01-323	LK69353	1	Spacer (CP6103)	-	(A)(B)
01-325	4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP6103)	-	(A)(B)

71-52-41

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01-005	745-5967 -507	1	Harness, core services (Rohr)	745-5967 -505	(A)(F)(S1)
01-110	-	1	Bolt, bihex head (CP5905) (0.190in. dia x 0.438in.) (Rohr)	AS21407	(G)(1D)
01-112	-	1	Washer, flat (CP5905) (0.190in. dia) (Rohr)	SP154D	(G)(1D)
01-115	-	1	Clamp, loop style, cushion (0.313in. dia) (CP5905) (Rohr)	TA025274 -05	(G)(1D)
01-115	-	Ref	Clamp, loop style, cushion (0.312in. dia) (CP5905) (Rohr)	AS61903	(G)(1D)
01-117	-	1	Nut, self locking, bihex (0.190in. dia) (CP5905) (Rohr)	AS20624	(G)(1D)
01-118	-	1	Bolt, bihex head (CP5904) (0.190in. dia x 0.500in.) (Rohr)	AS21408	(G)(1D)
01-120	-	1	Washer, flat (CP5904) (0.190in. dia) (Rohr)	SP154D	(G)(1D)
01-123	-	1	Clamp, loop style, cushion (0.250in. dia) (CP5904) (Rohr)	TA025074 -04	(G)(1D)
01-123	-	Ref	Clamp, loop style, cushion (0.250in. dia) (CP5904) (Rohr)	AS61902	(G)(1D)
01-125	-	1	Nut, self locking double hex (0.190in. dia) (CP5904) (Rohr)	AS20624	(G)(1D)
01-128	-	1	Bolt, bihex head (CP5918) (0.190in. dia x 0.438in.) (Rohr)	AS21407	(G)(1D)
01-130	-	1	Washer, flat (CP5918) (0.190in. dia) (Rohr)	SP154D	(G)(1D)
01-131	-	1	Clamp, loop style, cushion (0.188in. dia) (CP5918) (Rohr)	TA025074 -03	(G)(1D)
01-131	-	Ref	Clamp, loop style, cushion (0.188in. dia) (CP5918) (Rohr)	AS61933	(G)(1D)
01-132	-	1	Clip (CP5918) (Rohr)	400WSS4	(G)(1D)



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FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01-133	-	1	Nut, self locking, bihex (0.190in. dia) (CP5918) (Rohr)	AS20624	(G)(1D)
01-134	-	1	Bolt, bihex head (CP5901) (0.190in. dia x 0.938in.) (Rohr)	AS21415	(G)(1D)
01-135	-	1	Spacer (CP5901) (Rohr)	ST1698D48	(G)(1D)
01-136	-	1	Washer, flat (CP5901) (0.190in. dia) (Rohr)	SP154D	(G)(1D)
01-139	-	1	Clamp, loop style, cushion (0.188in. dia) (CP5901) (Rohr)	TA025074 -03	(G)(1D)
01-139	-	Ref	Clamp, loop style, cushion (0.188in. dia) (CP5901) (Rohr)	AS61933	(G)(1D)
01-141	-	1	Nut, self locking, bihex (0.190in. dia) (CP5901) (Rohr)	AS20624	(G)(1D)
01-142	-	1	Bolt, hex head (CP5804) (0.190in. dia x 1.250in.) (Rohr)	AS21420	(G)(1D)
01-143	-	1	Washer, flat (CP5804) (0.190in. dia) (Rohr)	SP154D	(G)(1D)
01-144	-	1	Spacer (CP5804) (Rohr)	ST1698D40	(G)(1D)
01-145	-	1	Clamp, loop style, cushion (0.188in. dia) (CP5804) (Rohr)	TA025074 -03	(G)(1D)
01-145	-	1	Clamp, loop style, cushion (0.188in. dia) (CP5804) (Rohr)	AS61933	(G)(1D)
01-147	-	1	Nut, self locking, bihex (0.190in. dia) (CP5804) (Rohr)	AS20624	(G)(1D)
01-150	-	1	Bolt, bihex head (CP5821) (0.190in. dia x 0.438in.) (Rohr)	AS21407	(G)(1D)
01-152	-	1	Washer, flat (CP5821) (0.190in. dia) (Rohr)	SP154D	(G)(1D)
01-155	-	1	Clamp, loop style, cushion (0.188in. dia) (CP5821) (Rohr)	TA025074 -03	(G)(1D)
01-155	-	Ref	Clamp, loop style, cushion (0.188in. dia) (CP5821) (Rohr)	AS61933	(G)(1D)
01-157	-	1	Nut, Assembly of, self locking (CP5821) (0.190in. dia) (Rohr)	AS41104	(G)(1D)
01-158	-	1	Bolt, bihex head (CP5820) (0.190in. dia x 0.438in.) (Rohr)	AS21407	(G)(1D)
01-160	-	1	Washer, flat (CP5820) (0.190in. dia) (Rohr)	SP154D	(G)(1D)
01-163	-	1	Clamp, loop style, cushion (0.188in. dia) (CP5820) (Rohr)	AS61933	(G)(1D)
01-163	-	Ref	Clamp, loop style, cushion (0.188in. dia) (CP5820) (Rohr)	TA025074 -03	(G)(1D)



FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01-165	-	1	Nut, self locking, bihex (0.190in. dia) (CP5820) (Rohr)	AS20624	(G)(1D)
01-215	-	1	Bolt, bihex head (CP5919) (0.190in. dia x 0.438in.)	AS21407	(G)(1D)
01-217	-	1	Clamp, loop style, cushion (0.188in. dia) (CP5919) (Rohr)	TA025074 -03	(G)(1D)
01-217	-	Ref	Clamp, loop style, cushion (0.188in. dia) (CP5919) (Rohr)	AS61933	(G)(1D)
01-219	-	1	Clip (CP5919) (Rohr)	400WSS4	(G)(1D)
01-220	-	1	Washer, flat (CP5919) (0.190in. dia) (Rohr)	SP154D	(G)(1D)
01-223	-	1	Nut, self locking, bihex (0.190in. dia) (CP5919) (Rohr)	AS20624	(G)(1D)
01-270	TA025074 -03	1	Clamp, loop style, cushion (0.188in. dia) (CP5648) (Rohr)	-	(A)(B)
01-270	AS61933	Ref	Clamp, loop style, cushion (0.188in. dia) (CP5648) (Rohr)	-	(A)(B)
01-275	TA025074 -03	1	Clamp, loop style, cushion (0.188in. dia) (CP5766) (Rohr)	-	(A)(B)
01-275	AS61933	Ref	Clamp, loop style, cushion (CP5766) (0.188in. dia) (Rohr)	-	(A)(B)
01-280	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438) (CP5937) (Rohr)	-	(A)(B)
01-283	TA025074 -05	1	Clamp, loop style, cushion (0.313in. dia) (CP5937) (Rohr)	-	(A)(B)
01-283	AS61903	Ref	Clamp, loop style, cushion (0.312in. dia) (CP5937) (Rohr)	-	(A)(B)
01-285	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP5937) (Rohr)	-	(A)(B)
01-287	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438) (CP5938) (Rohr)	-	(A)(B)
01-290	TA025074 -03	1	Clamp, loop style, cushion (0.188in. dia) (CP5938) (Rohr)	-	(A)(B)
01-290	AS61933	Ref	Clamp, loop style, cushion (0.188in. dia) (CP5938) (Rohr)	-	(A)(B)
01-292	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP5938) (Rohr)	-	(A)(B)
01-294	4W0102	1	Bolt, machine, double hex (CP5939) (0.190in. dia x 0.438in.) (Rohr)	-	(A)(B)
01-297	TA025074 -03	1	Clamp, loop style, cushion (0.188in. dia) (CP5939) (Rohr)	-	(A)(B)
01-297	AS61933	Ref	Clamp, loop style, cushion (0.188in. dia) (CP5939) (Rohr)	-	(A)(B)



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FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01-299	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP5939) (Rohr)	-	(A)(B)
01-300	AS21415	1	Bolt, bihex head (CP5940) (0.190in. dia x 0.938in.) (Rohr)	-	(A)(B)
01-303	ST1698D48	1	Spacer (CP5940) (Rohr)	-	(A)(B)
01-305	TA025074 -03	1	Clamp, loop style, cushion (0.188in. dia) (CP5940)	-	(A)(B)
01-305	AS61933	Ref	Clamp, loop style, cushion (0.188in. dia) (CP5940) (Rohr)	-	(A)(B)
01-307	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP5940) (Rohr)	-	(A)(B)
01-308	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP5941) (Rohr)	-	(A)(B)
01-311	TA025074 -05	1	Clamp, loop style, cushion (0.313in. dia) (CP5941) (Rohr)	-	(A)(B)
01-311	AS61903	1	Clamp, loop style, cushion (0.312in. dia) (CP5941) (Rohr)	-	(A)(B)
01-313	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP5941) (Rohr)	-	(A)(B)
01-315	TA025074 -03	1	Clamp, loop style, cushion (0.188in. dia) (CP6078) (Rohr)	-	(A)(B)
01-315	AS61933	Ref	Clamp, loop style, cushion (0.188in. dia) (CP6078) (Rohr)	-	(A)(B)
01-320	TA025074 -03	1	Clamp, loop style, cushion (0.188in. dia) (CP6098) (Rohr)	-	(A)(B)
01-320	AS61933	Ref	Clamp, loop style, cushion (0.188in. dia) (CP6098) (Rohr)	-	(A)(B)

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FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01-073	AS62507	1	Clamp, loop style, cushion (0.438in. dia) (CP5660)	TA025074 -07	(A)(S1)
01-073	-	Ref	Clamp, loop style, cushion (0.436in. dia) (CP5660)	AS61905	(G)(1D)
01-110	4W0108	1	Bolt, machine, double hex (0.190in. dia x 0.812in.) (CP5678)	4W0112	(A)(S1)
01-111	-	1	Washer (CP5678)	5W1086	(G)(1D)
01-113	AS62516	1	Clamp, loop style, cushion (1.000in. dia) (CP5678)	TA025074 -16	(A)(S1)



FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
	01-113 -	1	Clamp, loop style, cushion (1.000in. dia) (CP5678)	AS61914	(G)(1D)
	01-115 LK69353	1	Spacer (CP5678)	5W1030	(A)(S1)
	01-117 4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP5678)	4W0001	(A)(S1)
R	01-118 4W0111	1	Bolt, machine, double hex (0.190in. dia x 1.000in.) (CP5679)	4W0115	(A)(S1)
	01-119 -	2	Washer (CP5679)	5W1086	(G)(1D)
	01-120 AS62501	1	Clamp, loop style, cushion (0.062in. dia) (CP5679)	TA025074 -01	(A)(S1)
	01-120 -	1	Clamp, loop style, cushion (0.062in. dia) (CP5679)	AS61931	(G)(1D)
	01-121 AS62517	1	Clamp, loop style, cushion (1.062in. dia) (CP5679)	TA025074 -17	(A)(S1)
	01-121 -	1	Clamp, loop style, cushion (1.062in. dia) (CP5679)	AS61915	(G)(1D)
	01-123 LK69353	1	Spacer (CP5679)	5W1030	(A)(S1)
R	01-230 -	1	Bolt, machine, double hex (0.190in. dia x 0.562in.) (CP5693)	4W0104	(G)(1D)
	01-231 -	1	Washer (CP5693)	5W1086	(G)(1D)
	01-233 -	1	Clamp, loop style, cushion (0.250in. dia) (CP5693)	TA025074 -04	(G)(1D)
	01-233 -	Ref	Clamp, loop style, cushion (0.250in. dia) (CP5693)	AS61902	(G)(1D)
	01-237 -	1	Nut, Assembly of, self locking (0.190in. dia) (CP5693)	4W0043	(G)(1D)
R	01-262 4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.562in.) (CP5711)	4W0104	(A)(S1)
	01-265 AS62507	1	Clamp, loop style, cushion (0.438in. dia) (CP5711)	TA025074 -07	(A)(S1)
	01-265 -	1	Clamp, loop style, cushion (0.436in. dia) (CP5711)	AS61905	(G)(1D)
R	01-270 -	1	Bolt, machine, double hex (0.190in. dia x 0.562in.) (CP5712)	4W0104	(G)(1D)
	01-271 -	1	Washer (CP5712)	5W1086	(G)(1D)
	01-273 -	1	Clamp, loop style, cushion (0.438in. dia) (CP5712)	TA025074 -07	(G)(1D)
	01-273 -	Ref	Clamp, loop style, cushion (0.436in. dia) (CP5712)	AS61905	(G)(1D)
	01-277 -	1	Nut, self locking double hex (0.190in. dia) (CP5712)	4W0001	(G)(1D)



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	FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
R	01-422	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.500in.) (CP5764)	4W0103	(A)(S1)
	01-423	-	1	Washer (CP5764)	K8831	(G)(1D)
	01-425	AS62506	1	Clamp, loop style, cushion (0.125in. dia) (CP5764)	TA025074 -02	(A)(S1)
	01-425	-	Ref	Clamp, loop style, cushion (0.125in. dia) (CP5764)	AS61932	(G)(1D)
	01-429	4W0043	1	Nut, self locking double hex (0.190in. dia) (CP5764)	4W0001	(A)(S1)
R	01-430	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP5763)	AS20909	(A)(S1)
	01-431	-	1	Washer (CP5763)	K8831	(G)(1D)
	01-433	AS62506	1	Clamp, loop style, cushion (0.375in. dia) (CP5763) (Rohr)	TA025074 -02	(A)(S1)
	01-433	-	Ref	Clamp, loop style, cushion (0.125in. dia) (CP5763) (Rohr)	AS61932	(G)(1D)
	01-437	4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP5763)	4W0001	(A)(S1)
R	01-438	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP5765)	4W0104	(A)(S1)
	01-439	-	1	Washer (CP5765)	5W1086	(G)(1D)
	01-441	AS62508	1	Clamp, loop style, cushion (0.500in. dia) (CP5765)	TA025074 -02	(A)(S1)(1D)
	01-441	-	Ref	Clamp, loop style, cushion (0.125in. dia) (CP5765)	AS61932	(G)((1D)
	01-445	4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP5765)	4W0001	(A)(S1)
R	01-462	-	1	Bolt, machine, double hex (0.190in. dia x 0.875in.) (CP5779)	4W0109	(G)(1D)
	01-463	-	1	Washer (CP5779)	5W1086	(G)(1D)
	01-465	-	1	Clamp, loop style, cushion (1.000in. dia) (CP5779)	TA025074 -16	(G)(1D)
	01-465	-	Ref	Clamp, loop style, cushion (1.000in. dia) (CP5779)	AS61914	(G)(1D)
	01-467	-	1	Spacer, sleeve (5 mm) (CP5779)	5W1029	(G)(1D)
	01-469	-	1	Nut, self locking double hex (0.190in. dia) (CP5779)	4W0001	(G)(1D)
R	01-470	-	1	Bolt, machine, double hex (0.190in. dia x 0.625in.) (CP5780)	4W0105	(G)(1D)
	01-471	-	1	Washer (CP5780)	5W1086	(G)(1D)
	01-473	-	1	Clamp, loop style, cushion (1.000in. dia) (CP5780)	TA025074 -16	(G)(1D)



	FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
	01-473	-	Ref	Clamp, loop style, cushion (1.000in. dia) (CP5780)	AS61914	(G)(1D)
	01-477	-	1	Nut, self locking double hex (0.190 dia) (CP5780)	4W0001	(G)(1D)
R	01-518	4W0103	1	Bolt, machine, double hex (0.190in. dia x 0.500in.) (CP6094)	-	(A)(B)
	01-521	AS62511	1	Clamp, loop style, cushion (0.688 in. dia) (CP6094)	-	(A)(B)
	01-525	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP6094)	-	(A)(B)
R	01-534	4W0108	1	Bolt, machine, double hex (0.190in. dia x 0.812in.) (CP6082)	-	(A)(B)
	01-537	AS62507	1	Clamp, loop style, cushion (0.438in. dia) (CP6082)	-	(A)(B)
	01-539	LK69353	1	Spacer (CP6082)	-	(A)(B)
	01-541	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP6082)	-	(A)(B)
R	01-542	4W0113	1	Bolt, machine, double hex (0.190in. dia x 1.125in.) (CP6086)	-	(A)(B)
	01-545	AS62502	1	Clamp, loop style, cushion (0.125in. dia) (CP6086)	-	(A)(B)
	01-547	LK42781	1	Spacer (CP6086)	-	(A)(B)
	01-549	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP6086)	-	(A)(B)
	01-561	AS62507	1	Clamp, loop style, cushion (0.438in. dia) (CP6083)	-	(A)(B)
	01-570	AS62507	1	Clamp, loop style, cushion (0.438in. dia) (CP5641)	-	(A)(B)

71-52-45

	FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
R	01-150	4W0108	1	Bolt, machine, double hex (0.190in. dia x 0.812in.) (CP5553)	4W0103	(A)(S1)
	01-151	-	1	Washer (CP5553)	5W1086	(G)(1D)
	01-155	LK69353	1	Spacer (CP5553)	-	(A)(B)
R	01-190	-	1	Bolt, machine, double hex (0.190in. dia x 0.500in.) (CP5781)	4W0103	(G)(1D)
	01-191	-	1	Washer (CP5781)	5W1086	(G)(1D)



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FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01-193	-	1	Clip (CP5781)	TA0210046 FT05	(G)(1D)
01-193	-	Ref	Clip (CP5781)	ST1455-05	(G)(1D)
01-197	-	1	Nut, self locking double hex (0.190in. dia) (CP5781)	4W0001	(G)(1D)
01-262	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP6085)	-	(A)(B)
01-265	ST1455-05	1	Clip (CP6085)	-	(A)(B)(E)
01-265	TA0210046 FT05	Ref	Clip (CP6085)	-	(A)(B)(E)
01-269	4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP6085)	-	(A)(B)
01-273	ST1455-05	1	Clip (CP6086)	-	(A)(B)(E)
01-273	TA0210046 FT05	1	Clip (CP6086)	-	(A)(F)(E)
01-566	745-5081 -501	1	Bracket assembly, support (CP5222, CP5942) (Rohr)	-	(A)(B)

71-52-50

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FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
05-100	6A5393	1	Tube, Assembly of - Raceway clipping	6A2134	(A)(F)(S1)
05-102	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP5676)	4W0104	(A)(S1)
05-104	-	1	Washer (CP5676)	K8831	(G)(1D)
05-133	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP6104)	-	(A)(B)
05-136	4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP6104)	-	(A)(B)
05-512	AS62408	1	Clip (CP5713) (0.500in. dia)	400WSS8	(A)(S1)

71-71-49

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01-500	740-5277 -507	1	Tube assembly, drain (Rohr)	740-5277 -505	(A)(F)(S1)
01-536	400WSS4	1	Clip (CP5835) (Rohr)	400WSS8	(A)(S1)

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	FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
	01-545	AS62404	1	Clip (CP6081) (0.250in. dia) (Rohr)	-	(A)(B)
	02-100	745-279 -503	1	Tube, assembly, drain (Rohr)	745-5279 -501	(A)(F)(S1)
R	02-141	AS21414	1	Bolt, bihex head (CP5831) (0.190in. dia x 0.875in.) (Rohr)	4W0103	(A)(S1)
	02-143	ST1698D48	1	Spacer (CP5831) (Rohr)	-	(A)(B)
	02-500	740-5278 -509	1	Tube assembly, drain (Rohr)	740-5278 -507	(A)(F)(S1)
R	02-533	AS21414	1	Bolt, bihex head (CP5832) (0.190in. dia x 0.875in.) (Rohr)	AS21418	(A)(S1)
	02-538	ST169D48	1	Spacer (CP5832) (Rohr)	ST1698D49	(A)(S1)
R	02-541	-	1	Bolt, machine, double hex (0.190in. dia x 0.500in.) (CP5833) (Rohr)	4W0103	(G)(1D)
	02-542	-	1	Washer (CP5833) (Rohr)	SP154D	(G)(1D)
	02-544	-	1	Clip (CP5833) (Rohr)	400WSS4	(G)(1D)
	02-548	-	1	Nut, self locking, bihex (0.190in. dia) (CP5833) (Rohr)	AS20624	(G)(1D)
	02-552	-	1	Clip (CP5833) (Rohr)	400WSS4	(G)(1D)
	02-560	400WSS4	1	Clip (CP5670) (Rohr)	-	(A)(B)

72-41-00

	FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
R	01-308	AS21114	1	Bolt, bihex (CP5642) (0.3125in. dia x 0.875in.)	AS21114	(A)(3D)
R	01-314	-	1	Bolt, bihex (CP5642) (0.3125in. dia x 1.062in.)	AS21117	(A)(4D)
	03-320	6A5749	1	Bracket, support (CP5643, CP5696)	5W8396	(A)(F)(S1)
	03-350	-	1	Bracket assembly - harness disconnect (CP5693)	5W8302	(G)
	03-400	-	1	Bracket, support (CP5642)	2A2542-01	(G)
	03-575	6A5748	1	Bracket, support (CP6073)	-	(A)(B)

72-41-34



FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01-720	6A5825	1	Bracket, support (CP5660)	5W0088	(A)(F)(S1)

73-11-49

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
09-100	6A5390	1	Tube assembly, fuel - Fuel flowmeter to distribution bifurcation panel to distribution valve	2A0656	(A)(F)(S1)
09-149	-	1	Bolt, machine, double hex (0.190in. dia x 0.500in.) (CP5700)	4W0103	(G)(1D)
09-150	-	1	Washer (CP5700)	5W1086	(G)(1D)
09-152	-	1	Clip (CP5700)	400WSS12	(G)(1D)
09-156	-	1	Nut, self locking double hex (0.190in. dia) (CP5700)	4W0001	(G)(1D)
09-160	AS62412	1	Clip (CP5659) (0.750in. dia)	-	(A)(B)
09-165	4W0115	1	Bolt, machine, double hex (0.190in. dia x 1.250in.) (CP6078)	-	(A)(B)
09-168	AS62412	1	Clip (CP6078) (0.750in. dia)	-	(A)(B)
09-170	LK51288	1	Spacer (CP6078)	-	(A)(B)
09-172	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP6078)	-	(A)(B)
09-172	4W0043	Ref	Nut, Assembly of, self locking (0.190in. dia) (CP6078)	-	(A)(B)(C)
09-173	4W0110	1	Bolt, machine, double hex (0.190 dia x 0.938in.) (CP6075)	-	(A)(B)
09-176	AS62412	1	Clip (CP6075) (0.750in. dia)	-	(A)(B)
09-178	LK69353	1	Spacer (CP6075)	-	(A)(B)
09-180	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP6075)	-	(A)(B)
09-181	4W0107	1	Bolt, machine, double hex (0.190in. dia x 0.750in.) (CP6077)	-	(A)(B)
09-184	AS62412	1	Clip (CP6077) (0.750in. dia)	-	(A)(B)
09-186	LK64582	1	Spacer (CP6077)	-	(A)(B)



	FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
R	09-188	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP6077)	-	(A)(B)
	09-189	4W0108	1	Bolt, machine, double hex (0.190in. dia x 0.812in.) (CP6079)	-	(A)(B)(C)
	09-192	AS62412	1	Clip (CP6079)	-	(A)(B)(C)
	09-194	LK69353	1	Spacer (CP6079)	-	(A)(B)(C)
	09-196	4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP6079)	-	(A)(B)(C)
R	11-100	6A5392	1	Tube assembly, HP servo fuel - bifurcation panel to disconnect	6A2143	(A)(F)(S1)
	11-133	-	1	Bolt, machine, double hex (0.190in. dia x 0.500in.) (CP5666)	4W0103	(G)(1D)
	11-134	-	1	Washer (CP5666)	K8831	(G)(1D)
	11-136	-	1	Clip (CP5666)	400WSS8	(G)(1D)
	11-140	-	1	Nut, self locking double hex (0.190in. dia) (CP5666)	4W0001	(G)(1D)
R	11-141	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP5667)	4W0103	(A)(S1)
	11-142	-	1	Washer (CP5667)	K8831	(G)(1D)
	11-144	AS62408	1	Clip (CP5667) (0.500in. dia)	400WSS8	(A)(S1)
	11-149	4W0130	1	Bolt, machine, double hex (0.190in. dia x 2.375in.) (CP5668)	4W0123	(A)(S1)
	11-150	-	1	Washer (CP5668)	K8831	(G)(1D)
R	11-152	AS62408	1	Clip (CP5668) (0.500in. dia)	400WSS8	(A)(S1)
	11-154	LK65478	1	Spacer (CP5668)	UP10480	(A)(2D)(S1)
	11-155	LK42781	1	Spacer (CP5668)	-	(A)(B)
	11-157	-	1	Bolt, machine, double hex (0.190in. dia x 0.500in.) (CP5704)	4W0103	(C)(G)(1D)
	11-158	-	2	Washer (CP5704)	K8831	(C)(G)(1D)
R	11-160	-	1	Clip (CP5704)	400WSS8	(C)(G)(1D)
	11-164	-	1	Nut, self locking double hex (0.190in. dia) (CP5704)	4W0001	(C)(G)(1D)
	11-165	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP6076)	-	(A)(B)
	11-168	AS62408	1	Clip (0.500in. dia) (CP6076)	-	(A)(B)
	11-172	4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP6076)	-	(A)(B)
R	11-176	AS62408	1	Clip (CP6077) (0.500in. dia)	-	(A)(B)
	13-125	4W0106	1	Bolt, machine, double hex (0.190in. dia x 0.688in.) (CP6083)	-	(A)(B)



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	FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
	13-128	AS62406	1	Clip (CP6083) (0.375in. dia)	-	(A)(B)
	13-130	LK64582	1	Spacer (CP6083)	-	(A)(B)
	13-132	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP6083)	-	(A)(B)
R	16-157	4W0128	1	Bolt, machine, double hex (0.190in. dia x 2.125in.) (CP5648)	4W0117	(A)(S1)
	16-158	-	2	Washer (CP5648)	K8831	(G)(1D)
	16-160	AS62405	1	Clip (CP5648) (0.312in. dia)	400WSS5	(A)(S1)
	16-161	LK42781	1	Spacer (CP5648)	-	(A)(B)
	16-162	LK42781	1	Spacer (CP5648)	UP10480	(A)(S1)
	16-163	LK64582	1	Spacer (CP5648)	-	(A)(B)
R	16-173	-	1	Bolt, machine, double hex (0.190in. dia x 0.500in.) (CP5783)	4W0103	(G)(1D)
	16-174	-	2	Washer (CP5783)	K8831	(G)(1D)
	16-176	-	1	Clip, loop type (CP5783)	400WSS5	(G)(1D)
	16-180	-	1	Nut, self locking double hex (0.190in. dia) (CP5783)	4W0001	(G)(1D)
	18-134	-	1	Washer (CP5670)	K8831	(G)(1D)
	18-136	AS62405	1	Clip (CP5670) (0.312in. dia)	400WSS5	(A)(S1)
R	19-173	4W0103	1	Bolt, machine, double hex (0.190in. dia x 0.500in.) (CP5766)	4W0108	(A)(S1)
	19-174	-	2	Washer (CP5766)	K8831	(G)(1D)
	19-176	AS62406	1	Clip (CP5766) (0.375in. dia)	400WSS6	(A)(S1)
	19-178	-	1	Spacer (CP5766) (5 mm)	UP10478	(G)(1D)
	19-536	AS62408	1	Clip (CP5668) (0.500in. dia)	400WSS8	(A)(S1)
R	19-541	-	1	Bolt, machine, double hex (0.190in. dia x 1.250in.) (CP5653)	4W0115	(G)(1D)
	19-542	-	2	Washer (CP5653)	K8831	(G)(1D)
	19-544	-	1	Clip (CP5653)	400WSS8	(G)(1D)
	19-546	-	1	Spacer (CP5653) (15 mm)	UP10480	(G)(1D)
	19-548	-	1	Nut, self locking double hex (0.190in. dia) (CP5653)	4W0001	(G)(1D)
R	19-549	-	1	Bolt, machine, double hex (0.190in. dia x 1.000in.) (CP5671)	4W0111	(G)(1D)
	19-550	-	2	Washer (CP5671)	K8831	(G)(1D)
	19-552	-	1	Clip (CP5671) (0.500in. dia)	400WSS8	(G)(1D)
	19-554	-	1	Spacer (CP5671) (10 mm)	UP10479	(G)(1D)
	19-556	-	1	Nut, self locking double hex (0.190in. dia) (CP5671)	4W0001	(G)(1D)
R	19-557	4W0103	1	Bolt, machine, double hex (0.190in. dia x 0.500in.) (CP6092)	-	(A)(B)

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FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
R	19-560	AS62408	1	Clip (CP6092) (0.500in. dia)	- (A)(B)
	19-564	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP6092)	- (A)(B)
	19-565	4W0119	1	Bolt, machine, double hex (0.190in. dia x 1.500in.) (CP6100)	- (A)(B)
	19-568	AS62408	1	Clip (CP6100) (0.500in. dia)	- (A)(B)
	19-570	LK42781	1	Spacer (CP6100)	- (A)(B)
R	19-571	LK69353	1	Spacer (CP6100)	- (A)(B)
	19-572	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP6100)	- (A)(B)
	19-573	4W0113	1	Bolt, machine, double hex (0.190in. dia x 1.125in.) (CP6097)	- (A)(B)
	19-576	AS62408	1	Clip (CP6097) (0.500in. dia)	- (A)(B)
	19-578	LK42781	1	Spacer (CP6097)	- (A)(B)
R	19-580	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP6097)	- (A)(B)
	19-581	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP6090)	- (A)(B)
	19-584	AS62408	1	Clip (CP6090) (0.500in. dia)	- (A)(B)
	19-588	4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP6090)	- (A)(B)

73-22-49

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
02-100	6A6008	1	Tube assembly, air - P4.9 to EEC P5 connector line - disconnect to bifurcation panel	5A9059	(A)(F)(S1)
02-128	-	1	Clip (CP5221)	400WSS4	(G)(1D)
05-500	6A6011	1	Tube assembly, air - PS3 to EEC - disconnect to bifurcation panel	5A8762	(A)(F)(S1)



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	FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
R	05-525	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP6095)	-	(A)(B)
	05-528	AS62404	1	Clip (CP6095) (0.250in. dia)	-	(A)(B)
	05-532	4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP6095)	-	(A)(B)
R	05-557	4W0116	1	Bolt, machine, double hex (0.190in. dia x 1.312in.) (CP5647)	4W0112	(A)(S1)
	05-558	-	1	Washer (CP5647)	5W1086	(G)(1D)
	05-560	AS62404	1	Clip (CP5647)	400WSS4	(A)(S1)
	05-562	LK51288	1	Spacer (CP5647)	5W1030	(A)(S1)
	05-568	AS62404	1	Clip (CP5648) (0.250in. dia)	400WSS4	(A)(S1)
	05-576	-	1	Clip (CP5766)	400WSS4	(G)(1D)
	05-584	-	1	Clip (CP5650)	400WSS4	(G)(1D)
	05-589	-	1	Bolt, machine, double hex (0.190in. dia x 0.562) (CP5782)	4W0104	(G)(1D)
R	05-590	-	2	Washer (CP5782)	5W1086	(G)(1D)
	05-592	-	1	Clip (CP5782)	400WSS4	(G)(1D)
	05-596	-	1	Nut, self locking double hex (0.190in. dia) (CP5782)	4W0001	(G)(1D)
	09-500	6A6007	1	Tube assembly, air - P2.5 to EEC - disconnect to bifurcation panel	6A2122	(A)(C)(F)(S1)
	09-544	-	1	Clip (CP5704)	400WSS4	(C)(G)(1D)
	09-552	-	1	Clip (CP5700)	400WSS4	(C)(G)(1D)

75-00-49

	FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
	01-090	6A5750	1	Bracket assembly, support (CP5675, CP6074)	5W0045	(A)(F)(S1)
	01-242	745-5069 -501	1	Bracket (Rohr)	-	(A)(B)
	01-680	6A5758	1	Bracket - harness disconnect and clip point (CP6087)	5W0078	(A)(F)(S1)

75-22-49



FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
05-500	6A6010	1	Tube assembly, air - P3 to No.4 bearing scavenge disconnect to bifurcation panel	5A8764	(A)(F)(S1)
05-525	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP6101)	-	(A)(B)
05-526	5W1086	1	Washer (CP6101)	-	(A)(B)
05-528	AS62405	1	Clip (CP6101) (0.312in. dia)	-	(A)(B)
05-532	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP6101)	-	(A)(B)
05-544	AS62405	1	Clip, loop type (CP5647)	400WSS5	(A)(S1)
05-552	AS62405	1	Clip, loop type (CP5648)	400WSS5	(A)(S1)
05-560	-	1	Clip, loop type (CP5653)	400WSS5	(G)(1D)
05-565	-	1	Bolt, machine, double hex (0.190in. dia x 0.500in.) (CP5767)	4W0103	(G)(1D)
05-566	-	1	Washer (CP5767)	5W1086	(G)(1D)
05-568	-	1	Clip, loop type (CP5767)	400WSS5	(G)(1D)
05-572	-	1	Nut, self locking double hex (0.190in. dia) (CP5767)	4W0001	(G)(1D)
05-576	AS62405	1	Clip (CP6099) (0.312in. dia)	-	(A)(B)
05-584	-	1	Clip, loop type (CP5654)	400WSS5	(G)(1D)
05-592	AS62405	1	Clip (CP5668) (0.312in. dia)	-	(A)(B)

75-23-48

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
03-100	6A6006	1	Tube assembly, air - Bleed valve control solenoid to on/off valve bifurcation to disconnect	6A5312	(A)(F)(S1)
03-160	AS62404	1	Clip (CP6100) (0.250in. dia)	-	(A)(B)
03-168	AS62404	1	Clip (CP5648) (0.250in. dia)	400WSS4	(A)(S1)
01-176	AS62404	1	Clip (CP5647) (0.250in. dia)	400WSS4	(A)(S1)

75-32-49

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
08-496	6A5824	1	Bracket, support - raceway	-	(A)(B)
08-512	4W0165	1	Bolt, machine, double hex (0.250in. dia x 0.688in.)	-	(A)(B)

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	FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
R	08-514	4W0163	1	Bolt, machine, double hex (0.250in. dia x 0.562in.)	-	(S1)(2D)
R	12-112	4W0165	1	Bolt, machine, double hex (0.250in. dia x 0.688in.)	-	(A)(B)
R	12-114	4W0163	1	Bolt, machine, double hex (0.250in. dia x 0.562in.)	4W0163	(1D)(2D)
	13-100	6A6005	1	Tube assembly, air - Stage 7 HPC to bleed control valve - Bifurcation panel to disconnect	6A2162	(A)(F)(S1)
R	13-133	-	1	Bolt, machine, double hex (0.190in. dia x 1.312in.) (CP5640)	4W0116	(G)(1D)
	13-134	-	1	Washer (CP5640)	5W1086	(G)(1D)
	13-136	-	1	Clip (CP5640)	400WSS4	(G)(1D)
	13-138	-	1	Spacer, sleeve (CP5640) (15 mm)	5W1031	(G)(1D)
	13-140	-	1	Nut, self locking double hex (0.190in. dia) (CP5640)	4W0001	(G)(1D)
R	13-165	4W0105	1	Bolt, machine, double hex (0.190in. dia x 0.625in.) (CP6093)	-	(A)(B)
	13-168	AS62404	1	Clip (CP6093) (0.250in. dia)	-	(A)(B)
	13-170	LK64582	1	Spacer (CP6093)	-	(A)(B)
	13-172	4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP6093)	-	(A)(B)
	13-557	4W0125	1	Bolt, machine, double hex (0.190in. dia x 1.875in.) (CP5641)	4W0114	(A)(S1)
	13-558	-	1	Washer (CP5641)	5W1086	(G)(1D)
	13-560	AS62404	1	Clip (CP5641) (0.250in. dia)	400WSS4	(A)(S1)
	13-563	LK51288	1	Spacer (CP5641)	-	(A)(B)
R	13-565	4W0103	1	Bolt, machine, double hex (0.190in. dia x 0.500in.) (CP5643)	4W0104	(A)(S1)
	13-566	-	2	Washer (CP5643)	5W1086	(G)(1D)
	13-568	AS62404	1	Clip (CP5643) (0.250in. dia)	400WSS4	(A)(S1)
	14-100	6A6013	1	Tube assembly, air - bifurcation panel to disconnect - air to stage 10 bleed control valve	6A2163	(A)(F)(S1)
	14-136	-	1	Clip (CP5640)	400WSS4	(G)(1D)
	14-144	AS62404	1	Clip (CP6077) (0.250in. dia)	-	(A)(B)
R	14-157	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP6089)	-	(A)(B)
	14-160	AS62404	1	Clip (CP6089) (0.250in. dia)	-	(A)(B)
	14-164	4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP6089)	-	(A)(B)



FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
14-560	AS62404	1	Clip (CP5641) (0.250in. dia)	400WSS4	(A)(S1)
14-568	AS62404	1	Clip (CP5643) (0.250in. dia)	400WSS4	(A)(S1)
14-573	4W0112	1	Bolt, machine, double hex (0.190in. dia x 1.062)	-	(A)(B)
14-576	AS62404	1	Clip (CP5675) (0.250in. dia)	400WSS4	(A)(S1)
14-578	5W1031	1	Spacer, sleeve (CP5675) (15 mm)	-	(A)(B)
14-580	4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP5675)	-	(A)(B)
15-100	6A6012	1	Tube assembly, air - bifurcation panel to disconnect - air to stage 7 bleed control valve	5A9306	(A)(F)(S1)
15-144	-	1	Clip (CP5640)	400WSS4	(G)(1D)
15-152	-	1	Clip (CP5641)	400WSS4	(G)(1D)
15-168	AS62404	1	Clip (CP6092) (0.250in. dia)	-	(A)(B)
15-176	AS62404	1	Clip (CP6091) (0.250in. dia)	-	(A)(B)
15-500	6A6020	1	Tube assembly, air - disconnect to stage 7 bleed valve	5A9050	(A)(F)(S1)
R 15-557	-	1	Bolt, machine, double hex (0.190in. dia x 0.562in.) (CP5642)	4W0104	(G)(1D)
15-558	-	1	Washer (CP5642)	5W1086	(G)(1D)
15-560	-	1	Clip (CP5642)	400WSS4	(G)(1D)
15-564	-	1	Nut, self locking double hex (0.190in. dia) (CP5642)	4W0001	(G)(1D)
15-568	AS62404	1	Clip (CP5675) (0.250in. dia)	400WSS4	(A)(S1)
15-576	AS62404	1	Clip (CP5595) (0.250in. dia)	-	(A)(B)
R 15-581	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP6073)	-	(A)(B)
15-584	AS62404	1	Clip (CP6073) (0.250in. dia)	-	(A)(B)
15-588	4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP6073)	-	(A)(B)
15-592	AS62404	1	Clip (CP5659) (0.250in. dia)	-	(A)(B)
16-100	6A6009	1	Tube assembly of, Air - Stage 7 bleed control valve - Bifurcation panel to valve	5A9307	(A)(F)(S1)
R 16-149	-	1	Bolt, machine, double hex (0.190in. dia x 0.562in.) (CP5650)	4W0104	(G)(1D)
16-150	-	1	Washer (CP5650)	5W1086	(G)(1D)
16-152	-	1	Clip (CP5650)	400WSS4	(G)(1D)
16-156	-	1	Nut, self locking double hex (0.190in. dia) (CP5650)	4W0001	(G)(1D)
16-160	-	1	Clip (CP5650)	400WSS4	(G)(1D)



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FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
16-173	4W0108	1	Bolt, machine, double hex (0.190in. dia x 0.812in.) (CP6096)	-	(A)(B)
16-176	AS62404	1	Clip (CP6096) (0.250in. dia)	-	(A)(B)
16-178	LK69353	1	Spacer (CP6096)	-	(A)(B)
16-180	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP6096)	-	(A)(B)
16-181	4W0119	1	Bolt, machine, double hex (0.190in. dia x 1.500in.) (CP6098)	-	(A)(B)
16-184	AS62404	1	Clip (CP6098) (0.250in. dia)	-	(A)(B)
16-185	LK69353	1	Spacer (CP6098)	-	(A)(B)
16-186	LK42781	1	Spacer (CP6098)	-	(A)(B)
16-188	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP6098)	-	(A)(B)

75-41-15

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01-124	4W0106	1	Bolt, machine, double hex (CP5223) (0.190 dia x 0.688in.) (Rohr)	AS21408	(A)(S1)
01-126	ST1698D47	1	Spacer (CP5223) (Rohr)	-	(A)(B)
01-130	4W0106	1	Bolt, machine, double hex (CP5998) (0.190 dia x 0.688in.) (Rohr)	AS21408	(A)(S1)
01-131	ST1698D47	1	Spacer (CP5998) (Rohr)	-	(A)(B)
05-010	-	1	Bracket (Rohr)	740-5081 -507	(G)(1D)
05-015	-	2	Bolt, bihex head (0.190in. dia x 0.500in.) (Rohr)	AS21408	(G)(1D)
05-020	-	2	Washer, flat (0.190in. dia) (Rohr)	SP154D	(G)(1D)
05-025	-	2	Nut, self locking bihex (0.190in. dia) (Rohr)	AS20624	(G)(1D)

79-21-49



	FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
	10-100	6A5394	1	Tube assembly, oil - Feed to Nos. 1, 2, 3, 4 and 5 bearings - 4 way adapter to disconnect panel	5R8132	(A)(F)(S1)
R	10-133	-	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP5658)	4W0102	(G)(1D)
	10-134	-	1	Washer (CP5658)	5W1086	(G)(1D)
	10-136	-	1	Clip (CP5658)	400WSS12	(G)(1D)
	10-140	-	1	Nut, self locking double hex (0.190in. dia) (CP5658)	4W0001	(G)(1D)
R	10-141	4W0112	1	Bolt, machine, double hex (0.190in. dia x 1.062in.) (CP6080)	-	(A)(B)
	10-144	AS62412	1	Clip (CP6080) (0.750in. dia)	-	(A)(B)
	10-146	LK42781	1	Spacer (CP6080)	-	(A)(B)
	10-148	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP6080)	-	(A)(B)
R	10-149	4W0109	1	Bolt, machine, double hex (0.190in. dia x 0.875in.) (CP6081)	-	(A)(B)
	10-152	AS62412	1	Clip (CP6081) (0.750in. dia)	-	(A)(B)
	10-154	LK69353	1	Spacer (CP6081)	-	(A)(B)
	10-156	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP6081)	-	(A)(B)
	11-100	6A5395	1	Tube assembly, oil feed Nos. 1, 2 and 3 bearings - 4 way adapter to disconnect panel	5R8133	(A)(F)(S1)
R	11-141	4W0103	1	Bolt, machine, double hex (0.190in. dia x 0.500in.) (CP5660)	4W0120	(A)(S1)
R	11-142	-	1	Washer (CP5660)	5W1086	(G)(1D)
	11-144	AS62410	1	Clip (CP5660) (0.625in. dia)	400WSS10	(A)(S1)
	11-146	-	1	Spacer, sleeve (CP5660) (25 mm)	5W1033	(G)(1D)
	12-100	6A5397	1	Tube assembly, oil feed - 4 way connector to disconnect - Oil to No.5 bearing	5R8135	(A)(F)(S1)
R	12-133	4W0119	1	Bolt, machine, double hex (0.190in. dia x 1.500in.) (CP5659)	4W0102	(A)(S1)
	12-134	-	1	Washer (CP5659)	5W1086	(G)(1D)
	12-136	AS62404	1	Clip, loop type (CP5659)	400WSS5	(A)(S1)
	12-138	LK44011	1	Spacer (CP5659)	-	(A)(B)
R	12-141	-	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP5665)	4W0102	(G)(1D)
	12-142	-	1	Washer (CP5665)	5W1086	(G)(1D)



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FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
12-144	-	1	Clip, loop type (CP5665)	400WSS5	(G)(1D)
12-148	-	1	Nut, Assembly of, self locking (0.190in. dia) (CP5665)	4W0043	(G)(1D)
12-157	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP6084)	-	(A)(B)(C)
12-160	AS62405	1	Clip (CP6087) (0.312in. dia)	-	(A)(B)(C)
12-164	4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP6084)	-	(A)(B)(C)
12-165	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP6087)	-	(A)(B)
12-168	AS62405	1	Clip (CP6087) (0.312in. dia)	-	(A)(B)
12-172	4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP6087)	-	(A)(B)
13-100	6A5396	1	Tube assembly, oil feed - 4 way connector to disconnect - Oil to No.4 bearing	5R8134	(A)(F)(S1)
13-134	-	1	Washer (CP5664)	5W1086	(G)(1D)
13-136	AS62407	1	Clip (CP5664) (0.438in. dia)	400WSS7	(A)(S1)
13-149	4W0102	1	Bolt, machine, double hex (0.190in. dia x 0.438in.) (CP6088)	-	(A)(B)(C)
13-152	AS62407	1	Clip (CP6088) (0.438in. dia)	-	(A)(B)(C)
13-156	4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP6088)	-	(A)(B)(C)

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FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
01-525	-	1	Bolt, machine, double hex (0.190in. dia x 1.250in.) (CP5221)	4W0115	(G)(1D)
01-526	-	1	Washer (CP5221)	5W1086	(G)(1D)
01-530	-	1	Spacer, sleeve (CP5221) (10 mm)	5W1030	(G)(1D)
01-531	-	1	Spacer, sleeve (CP5221) (5 mm)	5W1029	(G)(1D)
01-532	-	1	Nut, self locking double hex (0.190in. dia) (CP5221)	4W0001	(G)(1D)
01-550	-	1	Washer (CP5223) (Rohr)	5W1086	(G)(1D)
01-557	4W0129	1	Bolt, machine, double hex (0.190in. dia x 2.250in.) (CP5222)	4W0117	(A)(S1)
01-561	LK51288	1	Spacer (CP5222)	-	(A)(B)
01-562	LK64582	1	Spacer (CP5222)	5W1029	(A)(S1)



	FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
	01-563	LK42781	1	Spacer (CP5222)	5W1031	(A)(S1)
	01-566	745-5081 -501	1	Bracket (CP5942) (Rohr)	-	(A)(B)
R	01-575	4W0106	1	Bolt, machine, double hex (0.190in. dia x 0.688in.) (CP5942)	-	(A)(B)
	01-578	UP10478	1	Spacer (CP5942) (5 mm)	-	(A)(B)
	01-580	4W0001	1	Nut, self locking double hex (0.190in. dia) (CP5942)	-	(A)(B)
R	03-149	4W0105	1	Bolt, machine, double hex (0.190in. dia x 0.625in.) (CP6102)	-	(A)(B)
	03-152	AS62416	1	Clip (CP6102) (1.000in. dia)	-	(A)(B)
	03-154	LK64582	1	Spacer (CP6102)	-	(A)(B)
	03-156	4W0043	1	Nut, Assembly of, self locking (0.190in. dia) (CP6102)	-	(A)(B)

D. Instructions/Disposition Code Statements:

- (A) New parts currently available
- (B) Additional part
- (C) Applicable to installation arrangement numbers AQ02 and AQ03 only
- (E) Alternative parts
- (F) Old part will be discontinued
- (G) Redundant part
- (H) Transferred to Chapter 75-32-49, Fig item 14-573
- (J) Transferred to Chapter 75-32-49, Fig item 14-576
- (K) Transferred to Chapter 75-32-49, Fig item 14-578
- (L) Transferred to Chapter 75-32-49, Fig item 14-580
- (S1) Old and new parts are not interchangeable
- (1D) Old part can be used up on other applications
- (2D) Quantity decreased to 1
- (3D) Quantity increased to 51



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(4D) Quantity decreased to 3

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



3. Accomplishment Instructions

A. Rework instructions

- (1) None.

B. Assembly instructions

- (1) Install the new assemblies in accordance with the approved procedures ref. V2500 Engine Manual Chapter/Section 72-00-40, Removal/Installation.

C. Recording instructions

- (1) A record of accomplishment is necessary.