



AIR - HPT/LPT ACC VALVE ACTUATOR - INTRODUCTION OF A NEW SEAL RING TO HPT/LPT ACC VALVE ACTUATOR - CATEGORY CODE 6 - MOD.ENG-75-0059

1. Planning Information

A. Effectivity

- (1) Aircraft: (a) Airbus A320  
(b) Airbus A321  
(c) McDonnell Douglas MD-90
- (2) Engine: (a) V2500-A1 Engines prior to Serial Number V0362  
(b) V2527-A5 Engines prior to Serial Number V10175  
(c) V2530-A5 Engines prior to Serial Number V10175  
(d) V2525-D5 Engines prior to Serial Number V20055  
(e) V2528-D5 Engines prior to Serial Number V20055

B. Concurrent Requirements

None

C. Reason

(1) Condition

Some operators experienced fuel leakage from drain port of HPT/LPT ACC valve actuator. Inspection on several returned units from operators revealed deterioration on fluorosilicone seal rings.

(2) Background

Possible HPT/LPYT ACC valve actuator drain leakage exists due to premature wear of seal rings and cap seals combination with thermal set of seal rings in hot jet fuel.

(3) Objective

The material of seal rings is to be changed from fluorosilicone to fluorocarbon for these seal rings of the HPT/LPT ACC Valve actuator, in order to improve unit reliability and durability. At the same time, the material of cap seal is to be changed from TURCON 5 to AVALON 89 to improve wear resistance.

(4) Substantiation

The changes introduced by this Bulletin were analytically substantiated.

(5) Effect of Bulletin on the following shop functions:

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## SERVICE BULLETIN

|                      |              |
|----------------------|--------------|
| Removal/Installation | Not Affected |
| Disassembly/Assembly | Not Affected |
| Cleaning             | Not Affected |
| Inspection/Check     | Not Affected |
| Repair               | Not Affected |
| Testing              | Not Affected |

## (6) Supplemental Information

None

D. Description

Part numbers of HPT/LPT ACC Valve Actuator are changed by incorporation of the new seal ring. For the details of part number change, refer to Section 3 Material Information of this Service Bulletin.

E. Approved

The part number changes described in this Bulletin have been shown to comply with the applicable Federal Aviation Regulation and are FAA-APPROVED for Engine Model Listed.

F. Compliance

Category Code 6

Accomplish when the sub-assembly (i.e. modules, accessories, components, build groups) is disassembled sufficiently to afford access to the affected parts and to all affected spare parts.

G. Manpower

Estimated Man-hours to incorporate the full intent of this Service Bulletin:

## (1) V2500-A1, V2527-A5 and V2530-A5 engines

| Venue                | Estimated Man-hours                               |
|----------------------|---|
| (a) In service ..... | Not affected                                      |
| (b) At overhaul      |   |
| (I) To embody .....  | Refer to Parker Hannifin<br>SB No. 5860017-75-94. |

## (2) V2525-D5 and V2528-D5 engines

| Venue | Estimated Man-hours |
|-------|---------------------|
|-------|---------------------|

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(a) In service ..... Not affected

(b) At overhaul

(1) To embody ..... Refer to Parker Hannifin  
SB No. 5910479-75-95.

## H. Material - Price and Availability

(1) Modification Kit not required.

(2) See Reference (3), Parker Hannifin SB No. 5860017-75-94, and Reference (4), Parker Hannifin SB No. 5910479-75-95, for price and availability of future spares.

## I. Tooling - Price and Availability

Refer to Reference (3), Parker Hannifin SB No. 5860017-75-94, and Reference (4), Parker Hannifin SB No. 5910479-75-95, for Tooling.

## J. Weight and Balance

- |                   |   |
|-------------------|---|
| (1) Weight change | None  |
| (2) Moment arm    | No effect   |
| (3) Datum         | Engine front mount Centerline<br>(Power Plant Section (PPS)100) |

## K. Electrical Load Data

This service Bulletin has no effect on the aircraft electrical load.

## L. References

(1) Internal Reference No.

94VJ064

(2) Other References

A320/A321 Aircraft Maintenance Manual.

MD-90 Aircraft Maintenance Manual.

Parker Hannifin Service Bulletin No. 5860017-75-94.

Parker Hannifin Service Bulletin No. 5910479-75-95.

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**M. Other Publications Affected**

- (1) V2500-A1 Engine Illustrated Parts Catalog (S-V2500-1IA), 75-24-52, to add new parts.
- (2) V2500-A5 Engine Illustrated Parts Catalog (S-V2500-2IA), 75-24-52, to add new parts.
- (3) V2500-D5 Engine Illustrated Parts Catalog (S-V2500-3IA), 75-24-52, to add new parts.



## 2. Accomplishment Instruction

### A. For V2500-A1, V2527-A5 and V2530-A5 Engines:

#### (1) Prerequisite Instructions

- (a) Remove the following HPT/LPT ACC valve actuator by the approved procedure in reference (1), Chapter/Section 75-24-52, Removal/Installation.

Vendor Part No. (IAE Part No.)

5860017-130 (5W2292)  
5860017-131 (5W2293)  
5860017-132 (5W2294)  
5860017-134 (5W2296)

#### (2) Rework Instructions

- (a) Return the HPT/LPT ACC valve actuator to vendor for modification and re-identification in accordance with Parker Hannifin SB No. 5860017-75-94.

#### (3) Fitment Instructions

- (a) Install the following new part number by the approved procedure in Reference (1) , Chapter/Section 75-24-52, Removal/Installation.

Vendor Part No. (IAE Part No.)

5860017-135 (5W2299)  
5860017-136 (5W2300)  
5860017-137 (5W2301)  
5860017-139 (5W2303)

#### (4) Recording Instructions

- (a) A record of accomplishment is necessary.

### B. For V2525-D5 and V2528-D5 Engines:

#### (1) Prerequisite Instructions

- (a) Remove the following HPT/LPT ACC valve actuator by the approved procedure in reference (2), Chapter/Section 75-24-52, Removal/Installation.

Vendor Part No. (IAE Part No.)

5910479-103 (5W2297)

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(2) Rework Instructions

- (a) Return the HPT/LPT ACC valve actuator to vendor for modification and re-identification in accordance with Parker Hannifin SB No. 5910479-75-95.

(3) Fitment Instructions

- (a) Install the following new part number by the approved procedure in Reference (2) , Chapter/Section 75-24-52, Removal/Installation.

Vendor Part No. (IAE Part No.)

5910479-104 (5W2304)

(4) Recording Instructions

- (a) A record of accomplishment is necessary.

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## SERVICE BULLETIN

MODIFICATIONPART NUMBER CHANGES

## BASE LINE

SB75-0008  
(PARKER 5860017-75-51)  
REPLACEMENT OF LVDT  
COVER AND BODY BOSS  
REWORK

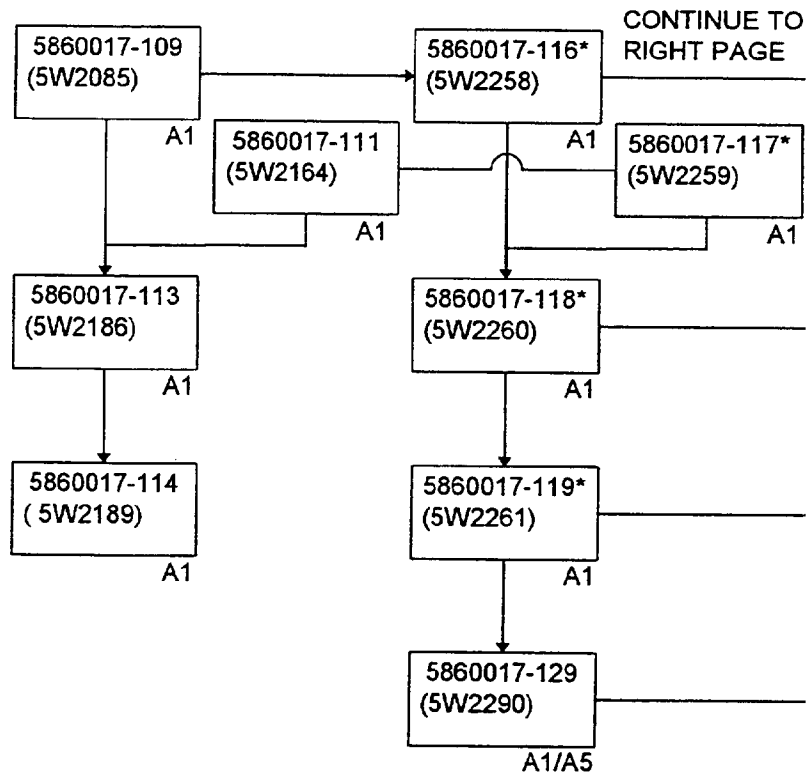
SB70-0113  
(PARKER 5860017-75-57)  
REINFORCED LVDT POSITION  
INDICATOR SLOT END

SB70-0281  
(PARKER 5860017-75-86)  
ADDITIONAL CASTING BOSS  
FOR SERVO VALVE  
RETENTION PIN

SB75-0027  
(PARKER 5860017-75-66)  
INSTALLATION OF PIN RETAINER  
ON SERVO VALVE

SB75-0046  
(PARKER 5860017-75-91)  
REPLACEMENT OF ROD END

SB75-0059  
(PARKER 5860017-75-94)  
REPLACEMENT OF SEAL RINGS



PART NUMBERS WITH " \* " MARK  
SHOW THE PARTS INCORPORATED THIS MODIFICATION

PART NUMBERS WITH " \*\* " MARK  
SHOW THE PARTS INCORPORATED THIS MODIFICATION

PART NUMBERS WITH " \*\*\*\* " MARK  
SHOW THE PARTS INCORPORATED THIS MODIFICATION

ded0001246

Family Tree - HPT/LPT ACC Valve Actuator Ref. Catalog Sequence No. 75-24-52 Fig. 01,  
Item 100 (Part Number 5860017)  
Fig.1 (Sheet 1 of 2)

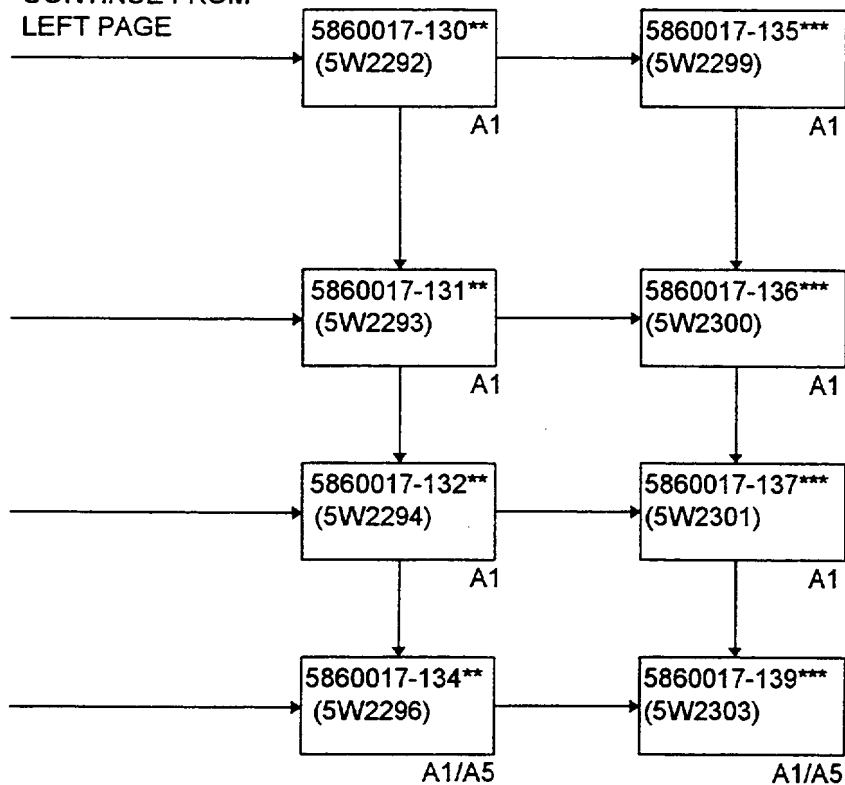
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## SERVICE BULLETIN

PART NUMBER CHANGESCONTINUE FROM  
LEFT PAGE

NOTE: MODEL CODE SHOWN UNDER THE PART NUMBER  
BOXES INDICATES AFFECTED ENGINE MODELS.

A1 --- FOR V2500-A1

A5 --- FOR V2527-A5 AND V2530-A5

D5 --- FOR V2525-D5 AND V2528-D5

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Family Tree - HPT/LPT ACC Valve Actuator Ref. Catalog Sequence No. 75-24-52 Fig. 01,  
Item 100 (Part Number 5860017)  
Fig.1 (Sheet 2 of 2)

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## SERVICE BULLETIN

MODIFICATIONPART NUMBER CHANGES

BASE LINE

SB75-0046  
(PARKER 5910479-75-92)  
REPLACEMENT OF ROD  
ENDSB75-0059  
(PARKER 5910479-75-95)  
REPLACEMENT OF SEAL  
RINGS5910479-102  
(5W2252)

D5

5910479-103  
(5W2297)

D5

5910479-104  
(5W2304)

D5

NOTE: MODEL CODE SHOWN UNDER THE PART NUMBER  
BOXES INDICATES AFFECTED ENGINE MODELS.

A1 --- FOR V2500-A1

A5 --- FOR V2527-A5 AND V2530-A5

D5 --- FOR V2525-D5 AND V2528-D5

ded0001248

Family Tree - HPT/LPT ACC Valve Actuator Ref. Catalog Sequence No. 75-24-52 Fig. 01,  
Item 100 (Part Number 5910479)

Fig.2

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## SERVICE BULLETIN

3. Material Information

Applicability: For each V2500 Engine to incorporate this Bulletin.

A. Kits associated with the Bulletin

None

B. Parts Affected by this Bulletin

| NEW<br>PART NO.<br>(ATA NO.) | QTY | EST'D<br>UNIT<br>PRICE (\$) | KEYWORD | OLD<br>PART<br>(IPC NO.) | INSTRUCTIONS<br>DISPOSITION |
|------------------------------|-----|-----------------------------|---------|--------------------------|-----------------------------|
|------------------------------|-----|-----------------------------|---------|--------------------------|-----------------------------|

## For V2500-A1 Engines:

|                                      |   |  |                                 |                                     |                      |
|--------------------------------------|---|--|---------------------------------|-------------------------------------|----------------------|
| 5860017-139<br>(5W2303<br>(75-24-52) | 1 |  | .Actuator, Valve<br>HPT/LPT ACC | 5860017-134<br>(5W2296)<br>(01-100) | (A) (B) (1D)<br>(S1) |
| 5860017-135<br>(5W2299<br>(75-24-52) | 1 |  | .Actuator, Valve<br>HPT/LPT ACC | 5860017-130<br>(5W2292)<br>(01-100) | (1D) (S1)            |
| 5860017-136<br>(5W2300<br>(75-24-52) | 1 |  | .Actuator, Valve<br>HPT/LPT ACC | 5860017-131<br>(5W2293)<br>(01-100) | (1D) (S1)            |
| 5860017-137<br>(5W2301<br>(75-24-52) | 1 |  | .Actuator, Valve<br>HPT/LPT ACC | 5860017-132<br>(5W2294)<br>(01-100) | (1D) (S1)            |

## For V2527-A5 and V2530-A5 Engines:

|                                      |   |  |                                 |                                     |                      |
|--------------------------------------|---|--|---------------------------------|-------------------------------------|----------------------|
| 5860017-139<br>(5W2303<br>(75-24-52) | 1 |  | .Actuator, Valve<br>HPT/LPT ACC | 5860017-134<br>(5W2296)<br>(01-100) | (A) (B) (1D)<br>(S1) |
|--------------------------------------|---|--|---------------------------------|-------------------------------------|----------------------|

## For V2525-D5 and V2528-D5 Engines:

|                                      |   |  |                                 |                                     |                      |
|--------------------------------------|---|--|---------------------------------|-------------------------------------|----------------------|
| 5910479-104<br>(5W2304<br>(75-24-52) | 1 |  | .Actuator, Valve<br>HPT/LPT ACC | 5910479-103<br>(5W2297)<br>(01-100) | (A) (B) (1D)<br>(S1) |
|--------------------------------------|---|--|---------------------------------|-------------------------------------|----------------------|

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C. Instruction/Disposition Code Statements

- (A) New part is currently available for sale.
- (B) Old parts will no longer be available for sale.
- (1D) Old part can be modified and re-identified.
- (S1) Old and new parts are freely interchangeable both physically and functionally.

NOTE: Consult following vendor for price information.

Parker Hannifin Corporation  
Customer Support Commercial Division  
16666 Von Karman Avenue  
Irvine, CA 92714 USA  
TEL: 714-660-8312  
FAX: 714-660-8390





Customer Support Commercial

# SERVICE BULLETIN

|     |                                     |  |
|-----|-------------------------------------|--|
| AIR | V2500 ENGINE - HPT/LPT ACC ACTUATOR | UPGRADE TO 5860017-135 THROUGH 139 BY INCORPORATING AN IMPROVED SHAFT SEAL AND A MODIFIED ACTUATOR BODY ASSEMBLY |
|-----|-------------------------------------|--|

## 1. Planning Information

### A. Effectivity

This service bulletin is applicable to the HPT/LPT ACC Actuator (hereinafter referred to as the Actuator), part number (P/N) 5860017-130, -131, -132, -133, and -134, installed on the IAE V2500-A1/A5 engine.

**NOTE:** Previous Service Bulletin 5860017-75-91 must be incorporated prior to this service bulletin.

### B. Reason

This service bulletin is issued to introduce a design improvement to reduce drain port leakage by incorporating an improved shaft seal, P/N 5924003-112, and a modified actuator body assembly, P/N 5863080-107, -108, -109, or -110.

### C. Description

This service bulletin provides operators with instructions to return the Actuator to Parker Hannifin Corporation for implementation.

### D. Compliance - Code 6

This service bulletin is classified as a Life Extension element. The compliance recommendation, therefore, falls into the Operator's Decision category, as defined by the ATA Implementation Guideline Manual (IGM), July 1994. Parker Hannifin Corporation recommends that this service bulletin be accomplished when the Actuator is disassembled sufficiently to afford access to the affected part.

### E. Approval

This service bulletin has been reviewed by the Federal Aviation Administration (FAA), and the modifications herein comply with the applicable Federal Aviation Regulations (FAR) and are FAA approved for installation in the IAE V2500 engines.

### F. Manpower

Not applicable.

### G. Weight and Balance

Not applicable.

### H. Electrical Load Data

Not affected.

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# SERVICE BULLETIN

I. Software Accomplishment Summary

Not applicable.

J. References

Parker Hannifin Corporation Component Maintenance Manual (CMM), ATA 75-24-52.

Parker Hannifin Corporation Service Bulletin 5860017-75-91.

IAE Service Bulletin V2500 ENG-75-0059 (EC 94VJ064).

K. Other Publications Affected

This service bulletin will be incorporated into the Parker Hannifin Corporation CMM, ATA 75-24-52, at the next scheduled revision of the manual.

L. Family Tree

Table 1 shows the revised configuration numbers and IAE part numbers for Actuators upgraded with the improved shaft seal and actuator body assembly.

Family Tree  
Table 1

| OLD CONFIGURATION<br>NUMBER | IAE PART<br>NUMBER | NEW CONFIGURATION<br>NUMBER | IAE PART<br>NUMBER |
|-----------------------------|--------------------|-----------------------------|--------------------|
| 5860017-130                 | 5W2292             | 5860017-135                 | 5W2299             |
| 5860017-131                 | 5W2293             | 5860017-136                 | 5W2300             |
| 5860017-132                 | 5W2294             | 5860017-137                 | 5W2301             |
| 5860017-133                 | 5W2295             | 5860017-138                 | 5W2302             |
| 5860017-134                 | 5W2296             | 5860017-139                 | 5W2303             |

2. Material Information

A. Material - Cost and Availability

- (1) Operators who want this service bulletin implemented must send the Actuator to Parker Hannifin Corporation at the address below. The cost for accomplishment of this service bulletin is \$1300.00. Turnaround time is 30 days after receipt of the Actuator, beginning 30 days from the issue date of this service bulletin.

|                             |                     |                |
|-----------------------------|---------------------|----------------|
| PARKER HANNIFIN CORPORATION | PHONE:              | (714) 833-3000 |
| Customer Support Commercial | FAX:                | (714) 660-8390 |
| 16666 Von Karman Avenue     | TELEX:              | 678304         |
| Irvine, California 92714    | SITA:               | JNPPHCR        |
| USA                         | REPAIR STATION NO.: | AU4R063M       |

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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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# SERVICE BULLETIN

- (2) The prices and provisions referenced in this service bulletin are valid for 24 months from the issue date of this service bulletin. After that date, please request a quotation from Parker Hannifin Corporation, Customer Support Commercial.

## B. Reidentification

| NEW PART NUMBER |                       |     | OLD PART NUMBER |              |     | KEY WORD           | DISP.  |
|-----------------|-----------------------|-----|-----------------|--------------|-----|--------------------|--------|
| 5860017 CONFIG. | DETAIL P/N            | QTY | 5860017 CONFIG. | DETAIL P/N   | QTY |                    |        |
| -135 thru -139  | M25988/1-028          | 1   | -130 thru -134  | SAME         | 1   | PACKING            | SCRAP  |
| -135 thru -139  | M25988/1-215          | 1   | -130 thru -134  | SAME         | 1   | PACKING            | SCRAP  |
| -135 thru -139  | S11065-1-5            | 1   | -130 thru -134  | SAME         | 1   | SCRAPER RING       | SCRAP  |
| -135 thru -139  | 5924003-112 SEAL ASSY | 2   | -130 thru -134  | S12562-112   | 2   | SEAL               | SCRAP  |
|                 |                       |     |                 | M25988/1-112 | 2   | PACKING            | SCRAP  |
| -135 thru -139  | S30641-215N           | 1   | -130 thru -134  | SAME         | 1   | SEAL               | SCRAP  |
| -135 thru -139  | 2813949-101           | 1   | -130 thru -134  | SAME         | 1   | PISTON BEARING     | SCRAP  |
| -135 thru -139  | 5833236-101           | 1   | -130 thru -134  | SAME         | 1   | BACKUP RING        | SCRAP  |
| -139            | 5863080-107           | 1   | -134            | 5863080-106  | 1   | ACTUATOR BODY ASSY | REWORK |
| -135            | 5863080-108           | 1   | -130            | 5863080-103  | 1   | ACTUATOR BODY ASSY | REWORK |
| -136            | 5863080-109           | 1   | -131            | 5863080-104  | 1   | ACTUATOR BODY ASSY | REWORK |
| -137 thru -138  | 5863080-110           | 1   | -132 thru -133  | 5863080-105  | 1   | ACTUATOR BODY ASSY | REWORK |
| -135            | 5943062-101           | 1   | -130            | 5943062-101  | 1   | NAMEPLATE          | SCRAP  |
| -136 thru -139  | 5903194-101           | 1   | -131 thru -134  | 5903194-101  | 1   | NAMEPLATE          | SCRAP  |

## 3. Accomplishment Instructions

Operators who want this service bulletin accomplished must send the Actuator to the address listed in paragraph 2.A.(1). Parker Hannifin Corporation will accomplish the tasks required to upgrade and reidentify the Actuator to the 5860017-135, -136, -137, -138, or -139 configuration.

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# SERVICE BULLETIN

|     |                                     |  |
|-----|-------------------------------------|--|
| AIR | V2500 ENGINE - HPT/LPT ACC ACTUATOR | UPGRADE OF 5910479-103 TO -104 BY INCORPORATING AN IMPROVED SHAFT SEAL AND A MODIFIED ACTUATOR BODY ASSEMBLY |
|-----|-------------------------------------|--|

## 1. Planning Information

### A. Effectivity

This service bulletin is applicable to the HPT/LPT ACC Actuator (hereinafter referred to as the Actuator), part number (P/N) 5910479-103, installed on the IAE V2500-D5 engines.

**NOTE:** Previous Service Bulletin 5910479-75-92 must be incorporated prior to this service bulletin.

### B. Reason

This service bulletin is issued to introduce a design improvement to reduce drain port leakage by incorporating an improved shaft seal, P/N 5924003-112, and a modified actuator body assembly, P/N 5903351-102.

### C. Description

This service bulletin provides operators with instructions to return the Actuator to Parker Hannifin Corporation for implementation.

### D. Compliance - Code 6

This service bulletin is classified as a Life Extension element. The compliance recommendation, therefore, falls into the Operator's Decision category, as defined by the ATA Implementation Guideline Manual (IGM), July 1994. Parker Hannifin Corporation recommends that this service bulletin be accomplished when the Actuator is disassembled sufficiently to afford access to the affected part.

### E. Approval

This service bulletin has been reviewed by the Federal Aviation Administration (FAA), and the modifications herein comply with the applicable Federal Aviation Regulations (FAR) and are FAA approved for installation in the IAE V2500 engines.

### F. Manpower

Not applicable.

### G. Weight and Balance

Not applicable.

### H. Electrical Load Data

Not affected.

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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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# SERVICE BULLETIN

## I. Software Accomplishment Summary

Not applicable.

## J. References

Parker Hannifin Corporation Component Maintenance Manual (CMM), ATA 75-24-72.

Parker Hannifin Corporation Service Bulletin 5910479-75-92.

IAE Service Bulletin V2500 ENG-75-0059 (EC 94VJ064).

## K. Other Publications Affected

This service bulletin will be incorporated into the Parker Hannifin Corporation CMM, ATA 75-24-72, at the next scheduled revision of the manual.

## L. Family Tree

Table 1 shows the revised configuration number and IAE part number for Actuators upgraded with the improved shaft seal and actuator body assembly.

Family Tree  
Table 1

| OLD CONFIGURATION<br>NUMBER | IAE PART<br>NUMBER | NEW CONFIGURATION<br>NUMBER | IAE PART<br>NUMBER |
|-----------------------------|--------------------|-----------------------------|--------------------|
| 5910479-103                 | 5W2297             | 5910479-104                 | 5W2304             |

## 2. Material Information

### A. Material - Cost and Availability

- (1) Operators who want this service bulletin implemented must send the Actuator to Parker Hannifin Corporation at the address below. The cost for accomplishment of this service bulletin is \$1300.00. Turnaround time is 30 days after receipt of the Actuator, beginning 30 days from the issue date of this service bulletin.

|                             |                     |                |
|-----------------------------|---------------------|----------------|
| PARKER HANNIFIN CORPORATION | PHONE:              | (714) 833-3000 |
| Customer Support Commercial | FAX:                | (714) 660-8390 |
| 16666 Von Karman Avenue     | TELEX:              | 678304         |
| Irvine, California 92714    | SITA:               | JNPPHCR        |
| USA                         | REPAIR STATION NO.: | AU4R063M       |

- (2) The prices and provisions referenced in this service bulletin are valid for 24 months from the issue date of this service bulletin. After that date, please request a quotation from Parker Hannifin Corporation, Customer Support Commercial.

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## SERVICE BULLETIN

### B. Reidentification

| QTY | OLD PART NUMBER | KEY WORD               | NEW PART NUMBER | DISPOSITION |
|-----|-----------------|------------------------|-----------------|-------------|
| 1   | M25988/1-028    | PACKING                | SAME            | SCRAP       |
| 2   | M25988/1-112    | PACKING                | NOT APPLICABLE  | SCRAP       |
| 1   | M25988/1-215    | PACKING                | SAME            | SCRAP       |
| 1   | S11065-1-5      | SCRAPER RING           | SAME            | SCRAP       |
| 2   | S12562-112      | SEAL                   | 5924003-112     | SCRAP       |
| 1   | S30641-215N     | SEAL                   | SAME            | SCRAP       |
| 1   | 2813949-101     | PISTON BEARING         | SAME            | SCRAP       |
| 1   | 5833236-101     | BACKUP RING            | SAME            | SCRAP       |
| 1   | 5903351-101     | ACTUATOR BODY ASSEMBLY | 5903351-102     | REWORK      |
| 1   | 5913509-101     | NAMEPLATE              | SAME            | SCRAP       |

### 3. Accomplishment Instructions

Operators who want this service bulletin accomplished must send the Actuator to the address listed in paragraph 2.A.(1). Parker Hannifin Corporation will accomplish the tasks required to upgrade and reidentify the Actuator to the 5910479-104 configuration.

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

