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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-ENG-72-0572.

Service Bulletin Initial Issue

Remove	Incorporate	Reason for change
	Pages 1 to 7 of the Service Bulletin	Initial Issue.

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ENGINE – PROVIDE THE REQUIREMENTS FOR MODIFICATION TO THE V2500 SELECTONE PRODUCTION
STANDARD

1. Planning Information

A. Effectivity

(1) Airbus A319

(a) V2522-A5, V2524-A5, V2527M-A5 Engines from Serial No. V15002 onwards.

(2) Airbus A320

(a) V2524-A5, V2527-A5, V2527E-A5 Engines from Serial No. V15002 onwards.

(3) Airbus A321

(a) V2530-A5, V2533-A5 Engines from Serial No. V15002 onwards.

B. Concurrent Requirements

None.

C. Reason

(1) Condition

None.

(2) Background

The V2500 SelectOne is a committed programme to enhance the V2500 engine for improved time on wing, efficiency and durability. The package for V2500 SelectOne Production standard features an optimised aerodynamic and mechanical design of the HP compressor and turbine and an improved EEC software.

(3) Objective

The purpose of this Service Bulletin is to inform the operator about the incorporated modification of a V2500-A5 SelectOne Production standard engine during new production.

(4) Substantiation

The changes introduced by this Service Bulletin were the subject of satisfactory engineering analysis. This Service Bulletin complies with the applicable engine certification basis.

(5) Effect of Bulletin on:

(a) Operation

Not affected.

(b) Maintenance

Not Affected.

(c) Overhaul

Not affected.

(d) Repair Schemes

Not affected.

(e) Interchangeability

Not affected.

(f) Fits and Clearances

Not affected.

D. Description

This SelectOne Retrofit Service Bulletin refers to the necessary Service Bulletins for the modification to a V2500-A5 SelectOne Production standard engine.

E. Compliance

Category Code TD (Technical Data)

For Information only.

F. Approval

The technical content of this Service Bulletin comply with the Federal Aviation Regulations and is FAA approved for the engine models listed.

The authorising IAE document is EC 08SEL02I.

G. Manpower

(1) In Service

Not applicable.

(2) At Overhaul

Not applicable.

H. Material Price and Availability

Not applicable.

I. Tooling Price and Availability

Special tools are not required.

J. Industry Support Information

Not applicable.

K. Weight and Balance

(1) Weight Change

None.

(2) Moment Arm

No effect.

(3) Datum

Engine Front Mount Centreline (Power Plant Station (PPS) 100).

L. Electrical Load Data

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

M. Software Accomplishment Summary

Not applicable.

N. References

(1) V2500 Service Bulletins:

V2500-ENG-72-0560	ENGINE - HIGH PRESSURE (HP) COMPRESSOR - V2500 SELECTONE RETROFIT AND PRODUCTION - HP COMPRESSOR UPGRADE
V2500-ENG-72-0561	ENGINE - HIGH PRESSURE (HP) COMPRESSOR - V2500 SELECTONE PRODUCTION - HP COMPRESSOR UPGRADE
V2500-ENG-72-0562	ENGINE - HIGH PRESSURE TURBINE (HPT) - V2500 SELECTONE PRODUCTION AND RETROFIT - HPT UPGRADE

V2500-ENG-72-0563	ENGINE - LOW PRESSURE (LP) TURBINE - INTRODUCTION OF TURBINE VANES STAGE 3
V2500-ENG-72-0564	ENGINE - HIGH PRESSURE (HP) COMPRESSOR - V2500 SELECTONE - INTRODUCTION OF REDESIGNED VARIABLE STATOR VANE (VSV) SYSTEM
V2500-ENG-73-0203	ENGINE - FUEL AND CONTROL - PROVIDE A NEW ELECTRONIC ENGINE CONTROL (EEC) WITH A5 SCN20/Y SOFTWARE

(2) Internal Reference No.:

Engineering Change No. 08SEL02I.

(3) ATA Locator - 72-00-00.

0. Other Publications Affected

None.

P. Interchangeability of Parts

Not affected.

2. Material Information

A. The kit required consists of the following parts:

None.

B. Parts to be reworked:

None.

C. New production parts:

None.

D. Redundant parts:

None.

E. Instruction disposition codes:

None.

3. Accomplishment Instructions

A. Rework Instructions

- (1) None.

B. Assembly Instructions

- (1) The Service Bulletins that follow are parts of the SelectOne Production package:

V2500-ENG-72-0560	ENGINE - HIGH PRESSURE (HP) COMPRESSOR - V2500 SELECTONE RETROFIT AND PRODUCTION - HP COMPRESSOR UPGRADE
V2500-ENG-72-0561	ENGINE - HIGH PRESSURE (HP) COMPRESSOR - V2500 SELECTONE PRODUCTION - HP COMPRESSOR UPGRADE
V2500-ENG-72-0562	ENGINE - HIGH PRESSURE TURBINE (HPT) - V2500 SELECTONE PRODUCTION AND RETROFIT - HPT UPGRADE
V2500-ENG-72-0563	ENGINE - LOW PRESSURE (LP) TURBINE - INTRODUCTION OF TURBINE VANES STAGE 3
V2500-ENG-72-0564	ENGINE - HIGH PRESSURE (HP) COMPRESSOR - V2500 SELECTONE - INTRODUCTION OF REDESIGNED VARIABLE STATOR VANE (VSV) SYSTEM
V2500-ENG-73-0203	ENGINE - FUEL AND CONTROL - PROVIDE A NEW ELECTRONIC ENGINE CONTROL (EEC) WITH A5 SCN20/Y SOFTWARE

NOTE: All engines have the referred Service Bulletin standards already incorporated at new production. The engraved Installation Arrangement Number (IAN) on the engine identification plate (72-32-85, 03-120) is SQ02 or SQ03.

Therefore no Operator action is required.

- (2) The Service Bulletins that follow are additionally to the SelectOne Production package and already incorporated in Engine Serial No. V15003 and onwards:

V2500-ENG-72-0571	ENGINE - HIGH PRESSURE (HP) COMPRESSOR - V2500 SELECTONE PRODUCTION - INTRODUCTION OF A BAULKING FEATURE IN THE VARIABLE STATOR VANE (VSV) SYSTEM TO PREVENT MISASSEMBLY OF LEVER ARMS
V2500-ENG-72-0573	ENGINE - HIGH PRESSURE (HP) COMPRESSOR - V2500 SELECTONE PRODUCTION - INCREASE OF CENTRALIZER PAD CLEARANCE TO REDUCE THE FORCE TO MOVE THE VARIABLE STATOR VANE (VSV) SYSTEM

V2500-ENG-72-0575 ENGINE - ROTOR AND STATOR ASSEMBLY - PROVIDE NEW
SELECTONE 2ND STAGE HIGH PRESSURE TURBINE (HPT)
RETAGGERED BLADES

V2500-ENG-72-0576 ENGINE - TURBINE NOZZLE - PROVIDE A SELECTONE NEW HIGH
PRESSURE TURBINE (HPT) 1ST STAGE VANE ASSEMBLY

NOTE: The Engine Serial No. V15002 has a different design standard of HP
compressor VSV spindles, VSV lever arms, stage 1 HP turbine vanes
and stage 2 HP turbine blades.

C. Recording Instructions

(1) None.