



May 12, 2017

Subject: Correction of Service Bulletin V2500-ENG-72-0661 Revision No. 5

Service Bulletin V2500-ENG-72-0661, Revision No. 5, dated May 2, 2017, "Non-Modification Service Bulletin - Engine - Stage 1 And Stage 2 HPT Hub - Over Inspection For Manufacturing Defects", was issued with an error in the References section. Reference 10 FAA AD was incorrectly listed as 2018-18-10 instead of the correct number of 2016-18-10. Additionally, a note was inadvertently left within the Service Bulletin Summary section that was intended for FAA approval only.

Attached is the Service Bulletin with the correct FAA AD number and the note removed. No other corrections or changes have been made.

I apologize for any inconvenience this may have caused.

A handwritten signature in black ink, appearing to read "James L. Angell".

James L. Angell
Supervisor
Service Bulletin Group
Customer Service

SERVICE BULLETIN REVISION NOTICE

NON-MODIFICATION SERVICE BULLETIN — ENGINE — STAGE 1 AND STAGE 2 HPT HUB —
OVER INSPECTION FOR MANUFACTURING DEFECTS

Turbojet Engine Service Bulletin No. V2500-ENG-72-0661 Revision No. 5 dated May 2, 2017.

Revision History

Original Issue November 10, 2015

Revision 1 dated February 5, 2016

Revision 2 dated May 27, 2016

Revision 3 dated July 28, 2016

Revision 4 dated January 6, 2017

Revision 5 dated May 2, 2017

Reason for the Revision

To add FAA Airworthiness Directive (AD) 2016-18-10 to the Title page and the References.

To update Compliance from Category 3 to Category 4.

To add an FAA AMOC statement in the Approval Data.

To remove EDAC Aero Engine Components Repair from Identified Source table.

To add a copy of the FAA AMOC letter in the Appendix.

Effect of Revision on Prior Compliance

None.

This is a Complete Revision (Not Applicable to the SGML version)

The contents are in accordance with the list of effective pages. All pages have the current revision number. Technical changes are marked with black bars.

MODEL APPLICATION

V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5, V2533-A5, V2525-D5,
V2528-D5

BULLETIN ISSUE SEQUENCE

V2500 Series 72-0661

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Revision No.

5

Date

May 2/17

A copy of this Revision Notice and any future revision notices must be filed as a permanent record with your copy of the subject bulletin.

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SERVICE BULLETIN

NON-MODIFICATION SERVICE BULLETIN — ENGINE — STAGE 1 AND STAGE 2 HPT
HUB — OVER INSPECTION FOR MANUFACTURING DEFECTS

MODEL APPLICATION

V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5,
V2533-A5, V2525-D5, V2528-D5

BULLETIN ISSUE SEQUENCE

V2500 Series 72-0661

ATA NUMBER

72-45-00

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FAA Airworthiness Directive

Directive No. 2016-18-10

Compliance Category

4

P&W Distribution Code

V2500

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Summary

The purpose of this Service Bulletin is to introduce inspection methods to accomplish and record a one-time inspection of specifically identified Stage 1 and Stage 2 High Pressure Turbine (HPT) hubs.

1. Planning Information

Effectivity Data

Engine Models Applicable

V2522-A5, V2524-A5, V2527M-A5, V2527-A5, V2527E-A5, V2530-A5, V2533-A5
Engine Serial Nos. V10001 thru V13190

V2522-A5, V2524-A5, V2527M-A5, V2527-A5, V2527E-A5, V2530-A5, V2533-A5
Engine Serial Nos. V15001 thru V17828, V18001

V2525-D5, V2528-D5
Engine Serial Nos. V20001 thru V20285

Concurrent Requirements

There are no concurrent requirements.

Reason

1. Condition: HPT Stage 1 and Stage 2 hubs may exhibit production defects which may impact the part certified life. This Non-Modification Service Bulletin (NMSB) provides cleaning and inspection methods to identify parts with defects from production and subsequent actions, if any are found.
2. Background: Production defects have been observed in the blade slots and other areas of Stage 1 and Stage 2 HPT hubs manufactured by one vendor. All HPT hubs manufactured by this vendor before May 21, 2015 require inspection to ensure they do not contain manufacturing defects.
3. Objective: Over inspect the Stage 1 and Stage 2 HPT hubs made by one vendor to identify production defects during a piece part level inspection.
4. Substantiation: The inspection methods provided have been shown to identify production defects.
5. Effects of Bulletin on:
 - 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.

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Description

This NMSB introduces inspection methods to accomplish and record inspection results for the Stage 1 HPT Hub, PN 2A5001 and Stage 2 HPT Hub, PN 2A4802.

Perform a one-time inspection of the suspect Stage 1 and Stage 2 HPT hubs that are listed in this NMSB.

Compliance

Category 4

Accomplish at the first visit of an engine or module to a maintenance base capable of compliance with the accomplishment instructions regardless of the planned maintenance action or the reason for engine removal.

NOTE: "First visit" is classified as the next induction of an engine into the shop for maintenance involving the separation of pairs of major mating engine flanges, except the separation of engine flanges solely for the purposes of transportation without subsequent engine maintenance does not constitute an engine shop visit. A "major mating engine flange" is considered flanges H through P. For location of flanges, refer to Figure 8.

Approval Data

The compliance statement and the procedures described in this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the engine model listed.

This Service Bulletin has been approved by the Manager, Engine Certification Office, ANE-140, by letter dated May 4, 2017 as an Alternate Method Of Compliance (AMOC) to Airworthiness Directive (AD) 2016-18-10.

The aircraft Type Certificate (TC) holder has been informed of this change.

Manpower

1. In Service

..... Not Applicable.

2. At Overhaul

A. Over inspect stage 1 HPT hub 8 hours

B. Over inspect stage 2 HPT hub 8 hours

Weight and Balance

1. Weight Change

None.

2. Moment Arm

No Effect.

3. Datum

Engine Front Mount Centerline (Power Plant Station (PPS) 100)

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Electrical Load Data

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

Software Accomplishment Summary

Not Applicable.

References

NOTE: In 2014 IAE converted the V2500 Technical Publications to a new system. As a result of the conversion, some manuals were consolidated. All manuals received new P&W part numbers. To facilitate the use of this Service Bulletin, a Technical Publications conversion table is provided in the Appendix.

1. ATA Locator — 72-45-11, 72-45-31.
2. V2500 Standard Practices and Processes, P&W Ref. PN 2A4414, Chapter/Section 70-09-00, 70-11-54, 70-12-08, 70-12-13.
3. V2500-A5 Series Illustrated Parts Catalog, P&W Ref. PN 2A4428, Chapter/Section 72-45-11, 72-45-31.
4. V2500-D5 Series Illustrated Parts Catalog, P&W Ref. PN 2A4426, Chapter/Section 72-45-11, 72-45-31.
5. V2500 A1/A5 Series Engine Manual, P&W Ref. PN 2A4407, Chapter/Section 72-45-11, 72-45-31.
6. V2500-D5 Series Engine Manual, P&W Ref. PN 2A4416, Chapter/Section 72-45-11, 72-45-31.
7. V2500 Service Bulletin V2500-ENG-72-0661 (Non-Modification Service Bulletin — Engine — Stage 1 And Stage 2 HPT Hubs — Over Inspection To Identify Production Defects).
8. V2500-A1/A5 IETP DVD-V2500-1IA-ENG (August 1, 2016 issue)
9. V2500-D5 IETP DVD-V2500-3IA-ENG (August 1, 2016 issue)
10. FAA Airworthiness Directive 2016-18-10.

Other Publications Affected

1. None.

Interchangeability of Parts

Not Applicable.

Information in the Appendix

Alternate Accomplishment Instructions (No)

Progression Charts (No)

Added Data (Yes)

Revision to Table of Limits (No)

Inspection Procedures (No)

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2. Material Information

Material — Price and Availability

1. There is no new material cost to do this Service Bulletin when the part modification procedure is used.
2. There is no kit provided to do this Service Bulletin.
3. Part availability information is provided in the Material Data Instructions — Disposition section.

Industry Support Program

For V2500-A5, V2500-D5 Engines in the effectivity of this Service Bulletin.

Under this program the operator is offered support in the form of a discount for unused cycles of T1 HPT Hub, PN 2A5001 & T2 HPT Hub, PN 2A4802 if deemed un-serviceable as a result of the accomplishment of this NMSB.

Pro-Rata Discount will be calculated as follows:

$$\frac{((20,000 \text{ cycles} - \text{Actual Hub cycles used} - 2,000 \text{ cycles stub time}) / 20,000 \text{ cycles}) \times \text{Catalog List Price}}{1} = \text{ProRata Discount}$$

To be eligible for this discount:

- T1 HPT Hub PN 2A5001 or T2 HPT Hub PN 2A4802 must be replaced with new
- Return of unserviceable T1 HPT Hub PN 2A5001 or T2 HPT Hub PN 2A4802 to IAE, or proof of mutilation (countersigned by the local PW/IAE representative) must be provided to IAE.
- All required documentation must be submitted to IAE within 180 days of the applicable Shop Visit completion date. Requests received after the 180 day period, even if they are prior to the expiration date of this Support Program, will be ineligible for the IAE spare parts discount and disqualified.

No duplicate benefits through FHA, Service Policy or other Support Programs will be approved.

Customers are requested to place a purchase order for the parts through their normal PW/IAE spare parts channel.

Upon approval, IAE Materials Management will issue the applicable IAE spare parts discount to the Customer's account with IAE.

This support program is valid through December 31, 2026.

If you have any questions concerning this offer please contact your IAE Customer Field Representative or Customer Fleet Director.

The material data that follows is for each engine.

Not Applicable

Instructions/Disposition Code Statements:

Spare Parts Availability

Not Applicable.

Vendor Services or Special Components/Materials

Not Applicable.

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Tooling — Price and Availability

The equipment, as required for the inspection of broached blade retaining slots, is as follows:

1. Visual Inspection Tooling requirements:
 - A. 0.007 inch (0.178 mm) radius stylus
 - B. White light
 - C. Magnification glass 10x
 - D. Replication molding as needed
2. Optical Comparator (Shadowgraph) Inspection Equipment
 - A. Jones and Lamson Optical Comparator A-7079 with 20x or equivalent
 - (1) Optical comparator to include work table with part locating cradle
 - (2) 30 inch (762 mm) diameter work surface glass
 - (3) Machine set to 20x magnification
 - B. 0.0001 inch (0.0025 mm) dial indicator
 - C. 0.0001 inch (0.0025 mm) dial indicator ball
 - D. Cylindrical micrometer
 - E. Magnet base — indicator holder
 - F. Knife edge gage and detail, TAM 69368 w/Detail 18 or equivalent
 - G. Rear bore face locating fixture or equivalent
 - H. Magnification glass, 3 – 4x
 - I. Spider clamp to secure part
 - (1) 15 inch (381 mm) threaded rod, washers and nuts to utilize with spider clamp to secure part
 - J. 0.001 inch (0.025 mm) feeler stock
 - K. Spacer plate (0.238 inch (6.045 mm) thick)
 - L. Lifting straps (MH7673) or equivalent
3. Unique Tooling for inspection of PN 2A5001
 - A. Go Gage 2A0101T9 and No-Go Gage 2A0101T10
 - B. Slot form chart Mylar Template 2A5001T124 (clear or frosted)
 - C. Tooling card IAE 2P16620, Revision A (inspection limits)
 - D. Tooling card IAE 2P16621, Revision A (setup information)
4. Unique Tooling for inspection of PN 2A4802
 - A. Go Gage 2A0302T9 and No-Go gage 2A0302T10

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- B. Slot form chart Mylar Template 2A4802T108 (clear or frosted)
- C. Tooling card IAE 2P16622, Revision A (inspection limits)
- D. Tooling card IAE 2P16623, Revision A (setup information)

For price and availability of the tools listed above, contact:

Submit an email to PWTOOLS@PW.UTC.COM

Reidentified Parts

Not Applicable.

Other Material Information Data

Not Applicable.

3. General Information

1. Definitions

- A. Tool Mark: A deviation from the normal surface plane, usually appearing as an undercut. Also defined as a deviated tool line.
- B. Tool line: An inherent mark left by any metal cutting tool.
- C. Flat: A plane cutting across a radius which interrupts the curvature of the radius.
- D. Mismatch: A step or misalignment on a machined surface which interrupts the smooth continuation of that surface or smooth transition of an adjacent radius.
- E. Reversal: Change in direction of any curved feature.

- 2. The following sources have successfully demonstrated their capability to perform the NMSB inspection requirements.

Identified Source

Christchurch Engine Center
115 Orchard Road
Christchurch 8051
New Zealand
and
Northeast Overhaul and Repair
40 New Park Drive
Berlin, CT 06037
USA
and
GKN Aerospace Sweden AB
Flygmotorvagen 1
SE-461 81 Trollhattan
Sweden
and
Aerotech Peissenberg GmbH & Co. KG
Hochreutherstr. 4
D-82380 Peissenberg
Germany

Contact IAE using EagleNet under "V2500 HPT Hub Fleet Management" Actionee Team for additional list of sources.

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3. Inspection process overview
 - A. Visual inspection
 - (1) Tool marks in broach slots
 - B. Shadowgraph inspection
 - (1) Broach form
 - (2) Tool marks identified by visual inspection
 - C. Mark NMSB number on the part if accepted

4. Accomplishment instructions

NOTE: For any questions relating to these instructions contact IAE using EagleNet under “V2500 HPT Hub Fleet Management” Actionee Team.

1. Before inspection
 - A. Verify part number and serial number are listed in Appendix A, Table 1 or Table 2.
 - B. Clean part as specified in Reference 2, SPM TASK 70-11-54-300-503.
 - (1) If heat scale is not removed in broach slots, perform as specified in Reference 2, SPM TASK 70-11-54-300-503 one more time.
 - (2) If heat scale still remains after second cleaning, abrasive clean as specified in Reference 2, SPM TASK 70-12-13-300-503 to remove the heat scale.
2. Send part to source identified in Step 3.2 to perform inspection.
 - A. Visual inspection instructions for PN 2A5001.
 - (1) Inspect all 64 broach slots with magnification glass 10x. Make note of any tool marks seen as defined in Step 3.1. Identify locations of tool marks with approved marker as specified in Reference 2, SPM TASK 70-09-01-400-501 by marking on OD or front face of a lug.
 - (2) Identified locations must be inspected by shadowgraph.
 - (3) Tool marks that do not appear in the full length “front to back” of the slot, inspect to limits of Tooling card IAE 2P16620, Revision A.
 - (a) Determine the size of tool mark by use of replication material or equivalent.
 - (4) Tool marks that do run the full length of slot will be inspected on shadowgraph.
 - B. Shadowgraph inspection setup instructions for PN 2A5001.
 - (1) Mount the part adapter as follows:
 - (a) Set the tilt cradle vernier to zero by loosening the cradle binding screws and adjust the cradle. Lock in place.
 - (b) Mount the locating fixture or equivalent on the tilt cradle and secure. Leave the bolts only hand tight.
 - (c) Position the 0.0001 inch (0.0025 mm) dial indicator to the knife edge gage bore diameter of the locating fixture or equivalent and set the pointer to zero. Rotate the work table 360° observing the indicator reading within 0.0005 inch (0.013 mm). If this condition is not met, move the adapter until the indicator reading is within 0.0005 inch (0.013 mm) and tighten the hold

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down bolts securely with torque wrench or equivalent. Use the amount of torque required to hold adapter securely.

- (d) Position the 0.0001 inch (0.0025 mm) dial indicator to the outside diameter of the locator and set the pointer to zero. Rotate the work table 360° observing the indicator reading within 0.0005 inch (0.013 mm). If this condition is not met, do not proceed until this condition is met.
- (e) Position the 0.0001 inch (0.0025 mm) dial indicator on the part locating surface of the locating fixture or equivalent and tram adapter in a radial direction ("IN" or "OUT") observing the indicator reading. The indicator reading must not exceed 0.0005 inch (0.013 mm) total. Repeat at 90° location.
- (f) Identify the part locating surface of the locating fixture or equivalent and position the 0.0001 inch (0.0025 mm) dial indicator with the dial pointer set to zero on the part locating surface. Rotate the work table 360° observing the indicator reading. Loosen and retighten the securing bolts to bring the indicator reading as close to zero reading as possible. If the bolts are loosened repeat Steps 4.2.B.(1).(c) thru 4.2.B.(1).(e). Repeat as necessary; dial indicator reading must not exceed 0.0005 inch (0.013 mm) total.

- (2) Check screen centerline to work table as follows:

NOTE: This check shall be performed before each inspection.

- (a) Utilizing a 0.0001 inch (0.0025 mm) indicator ball, swing the indicator ball over the light source until visible. Bring the indicator ball or equivalent to best focus at a point tangent to the bottom edge of the screen horizontal centerline. Traverse the work table side to side observing the ball image in relation to the centerline. If correction is needed loosen the screen lock screws and rotate glass screen as necessary.
- (b) Again bring the 0.0001 inch (0.0025 mm) indicator ball or equivalent to best focus again at a point tangent to the edge of the screen vertical centerline. Traverse the work table in and out observing the ball image in relation to the centerline. If correction is needed loosen the screen lock screws and rotate glass screen as necessary. Lock in place and recheck. Once the screen centerline is set, do not move or rotate the screen for any portion of this inspection.

- (3) Mount slot form chart as follows:

- (a) With the glass chart screen vernier set to zero, place the slot chart Mylar Template 2A5001T124 on the glass screen. Align the slots chart mylar template vertical and horizontal cross lines to lines on the glass screen. Secure in place using masking tape. The horizontal centerline of the slot chart must be set as specified in Step 4.2.B.(2).(a).

NOTE: Use a frosted mylar chart for clear glass. Use a clear mylar chart for frosted glass.

- (4) Align the knife edge gage as follows:

- (a) Set the tilt cradle to the broach angle specified in Tooling card IAE 2P16621, Revision A and adjust as needed to make slot square by loosening the binding screws and tilting the cradle as required. Lock the tilt cradle.
- (b) Mount the knife edge gage on the locating fixture or equivalent.

- (c) Using vernier hand adjustment on cradle and left and right wheels, align knife edge to vertical cross line on the screen.
 - (d) Using in and out wheel, tram knife edge for full distance of knife edge or as much as possible maintaining the vertical centerline. Use hand vernier wheel adjustment to adjust vertical centerline right or left as necessary.
 - (e) Add detail TAM 69368 or equivalent to knife edge gage.
 - (f) Tram vertical centerline and align detail to datum horizontal crossline, Z-plane in Tooling card IAE 2P16621, Revision A.
- (5) Set the horizontal work table to zero and offset (right or left) as follows:
- (a) For machines equipped with a cylindrical micrometer and end measuring rod, proceed as follows:
 - 1 Align the knife edge gage.
 - 2 Set cylindrical micrometer to centerline correction as necessary and insert on the machine. Press cylindrical micrometer stop sufficiently to a minimum of one full revolution of machine dial indicator.
 - 3 Remove and set cylindrical micrometer to the required "offset" (centerline correction).
 - 4 Move cradle fixture "right" or "left", insert micrometer and bring cradle fixture so as to have a minimum of one full turn on the machine dial indicator.
 - 5 If necessary, lock horizontal position movement at location established in Step 4.2.B.(5).(a).4.
 - (b) For machines equipped with vernier wheels, proceed as follows:
 - 1 Align the knife edge gage.
 - 2 Loosen the slip feature of the vernier wheel and set to zero. Tighten in this position. Set work table scale if necessary.
 - 3 Move the work table using the vernier wheel to the required "right" or "left" offset (centerline correction).
 - (c) For machines equipped with Acu-rite Digital Measuring System, proceed as follows:
 - 1 Align the knife edge gage.
 - 2 Push the zero reset key for "Y" axis to zero the incremental mode.
 - 3 Push the preset key for the "Y" axis. The key will light up and the display will indicate the value in the present memory.
 - 4 Push the clear key to clear any previous number from the present memory.
 - 5 Push the zero reset key. Decimal point and zeros will display.
 - 6 Move the cradle fixture wheel left or right to the required offset (centerline correction).
- (6) Set the work table to zero and offset (In or Out), as follows:

- (a) For machines equipped with cylindrical micrometer and end measuring rod, proceed as follows:
 - 1 Set end of knife edge gage or detail to the datum crossline.
 - 2 Install cylindrical micrometer set at zero or figure the “In” or “Out” position movement of the machine.
 - 3 Press cylindrical micrometer stop on the machine sufficiently to allow one full revolution of the machine dial indicator.
 - 4 Turn cylindrical micrometer to the required “In” or “Out” reading (knife edge correction).
 - 5 Move cradle fixture “In” or “Out” so as to have one full turn on the machine dial indicator.
 - 6 If necessary, lock horizontal position movement at location established in Step 4.2.B.(6).(a).5.
 - (b) For machines equipped with vernier wheels, proceed as follows:
 - 1 With the machine set to Step 4.2.B.(4) set end of knife edge gage or detail to the datum z plane crossline as shown in mylar chart. Loosen the slip feature of the vernier wheel and set to zero; tighten in this position. Set work table scale if necessary.
 - 2 Move the work table using the vernier wheel to the required “In” or “Out” offset (knife edge as necessary). Reset the vernier wheel to zero and lock, or temporarily mark dial at required offset.
 - (c) For machines equipped with Acu-Rite Digital Measuring System, proceed as follows:
 - 1 Set end of knife edge gage or detail to the datum crossline.
 - 2 Push the zero reset key for the “X” axis to zero the incremental mode display.
 - 3 Push the clear key to clear the present memory. The display will blank out except for the decimal point.
 - 4 Enter the present value by pushing the appropriate digit keys, including the decimal point.
- (7) Prepare and mount the part on the adapter:
- (a) The inspector shall:
 - 1 Visually inspect to ensure part is adequately cleaned.
 - 2 Place the part on the locating fixture or equivalent and use spacer plate as needed with the disk rear surface datum down. Secure lightly with hold-down spider clamp ring or equivalent. Do not damage the part surfaces.
 - 3 Use feeler stock to check if part is adequately located on datum surface.
 - 4 The axis of the part must be centered within 0.0005 inch (0.013 mm) total relative to diameter D and surface C (see Figure 2).

C. Shadowgraph inspection procedure for PN 2A5001

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- (1) Record part serial number, hours, cycles and all findings on the Accomplishment Proforma.
 - (2) Inspect form by using 20x shadowgraph with Mylar Chart 2A5001T124. Use magnification glass 3 – 4x to assist in inspection of the broach form. Align all pressure face surfaces on the part to the corresponding surfaces on the mylar chart. Any deviations outside the tolerances on Mylar Chart 2A5001T124 are rejectable. The radii size cannot be larger than the maximum profile radii and smaller than minimum profile radii on the chart. These radii are continuous curved profiles that lie within their tolerance zones on Chart 2A5001T124 and have no flats or reversals and are tangent to adjacent surfaces. Measure the depth of the tool marks and other defects by moving the part over so that the line of the chart outer profile is aligned with the part edge. With the part aligned, it becomes easy to see where the part deviates from the smooth and continuous profile. Once a tool mark or defect is found, the part can be moved further keeping track of the digital readout to determine depth or deviation amount. When inspecting the corner radii on the profile, the same technique above should be applied, except use both the maximum profile and minimum profile from the mylar chart to determine if the radii are truly a radius with no flats or reversals, and to determine if the radii are conforming.
 - (3) Inspect broach slots with tool marks identified by visual inspection. Additionally, inspect the first and last broach slot and every fifth slot. If first slot and last slot are unknown, inspect all 64 broach slots.
 - (a) Go Gage 2A0101T9 and No-Go Gage 2A0101T10 can be used to help determine first and last slot. Typically the largest slot is the first slot and the smallest is the last slot. Furthermore, the first slot is typically between the part number and serial number markings.
- D. Acceptance and Rejection of PN 2A5001
- (1) Accept hub which meets limits of Tooling card IAE 2P16620, Revision A and Mylar Chart 2A5001T124.
 - (2) Reject hub that exceeds limits of Tooling card IAE 2P16620, Revision A and Mylar Chart 2A5001T124.
- E. Visual inspection instruction for PN 2A4802
- (1) Inspect all 72 broach slots with magnification glass 10x. Make note of any tool marks seen as defined in Step 3.1. Identify locations of tool marks with approved marker as specified in Reference 2, SPM TASK 70-09-01-400-501 by marking on OD or front face of a lug.
 - (2) Identified locations must be inspected by shadowgraph.
 - (3) Tool marks that do not appear in the full length of the slot (front to back), inspect to limits of Tooling card IAE 2P16622, Revision A.
 - (a) Determine the size of tool mark by use of replication material or equivalent.
 - (4) Tool marks that do run the full length of slot will be inspected on shadowgraph.
- F. Shadowgraph inspection setup instructions for PN 2A4802.
- (1) Mount the part adapter as specified in Step 4.2.B.(1).
 - (2) Check screen centerline to work table as specified in Step 4.2.B.(2).

NOTE: This check shall be performed before each inspection.

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- (3) Mount slot form chart as follows:
- (a) With the glass chart screen vernier set to zero, place the slot chart mylar template on the glass screen. Use 2A4802T108. Align the slot chart mylar template vertical and horizontal cross lines to lines on the glass screen. Secure in place using masking tape. The horizontal centerline of the slot chart must be set as specified in Step 4.2.B.(2).(a).
- NOTE: Use a frosted mylar chart for clear glass. Use a clear mylar chart for frosted glass.
- (4) Align the knife edge gage as follows:
- (a) Set the tilt cradle to the broach angle as specified in Tooling card IAE 2P16623, Revision A and adjust as needed to make slot square by loosening the binding screws and tilting the cradle as required. Lock the tilt cradle.
 - (b) Mount the knife edge gage on the locating fixture or equivalent.
 - (c) Using vernier hand adjustment on cradle and left and right wheels, align knife edge to vertical cross line on the screen.
 - (d) Using in and out wheel, tram knife edge for full distance of knife edge or as much as possible maintaining the vertical centerline. Use hand vernier wheel adjustment to adjust vertical centerline right or left as necessary.
 - (e) Add detail TAM 69368 or equivalent to knife edge gage.
 - (f) Tram vertical centerline and align detail to datum horizontal crossline, Z-plane. See Tooling card IAE 2P16623, Revision A.
- (5) Set the horizontal work table to zero and offset (right or left) as specified in Step 4.2.B.(5).
- (a) For machines equipped with a cylindrical micrometer and end measuring rod, proceed as specified in Step 4.2.B.(5).(a).
 - (b) For machines equipped with vernier wheels, proceed as specified in Step 4.2.B.(5).(b).
 - (c) For machines equipped with Acu-rite Digital Measuring System, proceed as specified in Step 4.2.B.(5).(c).
- (6) Set the work table to zero and offset (In or Out) as specified in Step 4.2.B.(6).
- (a) For machines equipped with cylindrical micrometer and end measuring rod, proceed as specified in Step 4.2.B.(6).(a).
 - (b) For machines equipped with vernier wheels, proceed as specified in Step 4.2.B.(6).(b).
 - (c) For machines equipped with Acu-Rite Digital Measuring System, proceed as specified in Step 4.2.B.(6).(c).
- (7) Preparing and mounting the part on the adapter:
- (a) The inspector shall:
 - 1 Visually inspect to ensure part is adequately cleaned.
 - 2 Place the part on the locating fixture or equivalent and use spacer plate as needed with the disk rear surface datum down. Secure lightly with hold-down spider clamp ring. Do not damage the part surfaces.

- 3 The axis of the part must be centered within 0.0005 inch (0.013 mm) total relative to diameter AA and surface BF (see Figure 3).

G. Shadowgraph inspection procedure for PN 2A4802

- (1) Record part serial number, hours, cycles and all findings on the Accomplishment Proforma.
- (2) Inspect form by using 20x shadowgraph with Mylar Chart 2A4802T108. Use magnification glass 3 – 4x to assist in inspection of the broach form. Align all pressure face surfaces on the part to the corresponding surfaces on the mylar chart. Any deviations outside the tolerances on Mylar Chart 2A4802T108 are rejectable. The radii size cannot be larger than the maximum profile radii and smaller than minimum profile radii on the chart. These radii are continuous curved profiles that lie within their tolerance zones on Chart 2A4802T108 and have no flats or reversals and are tangent to adjacent surfaces. Measure the depth of the tool marks and other defects by moving the part over so that the line of the chart outer profile is aligned with the part edge. With the part aligned, it becomes easy to see where the part deviates from the smooth and continuous profile. Once a tool mark or defect is found, the part can be moved further keeping track of the digital readout to determine depth or deviation amount. When inspecting the corner radii on the profile, the same technique above should be applied, except use both the maximum profile and minimum profile from the mylar chart to determine if the radii are truly a radius with no flats or reversals, and to determine if the radii are conforming.
- (3) Inspect broach slots with tool marks identified by visual inspection. Additionally, inspect the first and last broach slot and every fifth slot. If the first and last slot are unknown, inspect all 72 broach slots.
 - (a) Go Gage 2A0302T9 and No-Go Gage 2A0302T10 can be used to help determine first and last slot. Typically the largest slot is the first slot and the smallest is the last slot. Furthermore, the first slot is typically between the part number and serial number marking.

H. Acceptance and rejection of PN 2A4802

- (1) Accept hub which meets limits of Tooling card IAE 2P16622, Revision A and Mylar Chart 2A4802T108
- (2) Reject hub that exceeds limits of Tooling card IAE 2P16622, Revision A and Mylar Chart 2A4802T108

I. Marking

- (1) If part is accepted mark “72-0661” on rear face of fir tree, similar to part number and serial number marking but on next available lug. See Figure 4 or 5.
 - (a) Make a permanent mark using the procedure given in the Reference 2, SPM TASK 70-09-00-400-501.
 - (b) Use the vibration peen method.

3. A record of accomplishment is required.

- A. Record the Inspection Results in the Accomplishment Proforma.
- B. Record the accomplishment of Reference 7, Non-Modification Service Bulletin V2500-ENG-72-0661 in the applicable engine records.

- C. Inform local IAE office that Reference 7, Non-Modification Service Bulletin V2500-ENG-72-0661 has been accomplished and provide Accomplishment Proforma to IAE Technical Service.

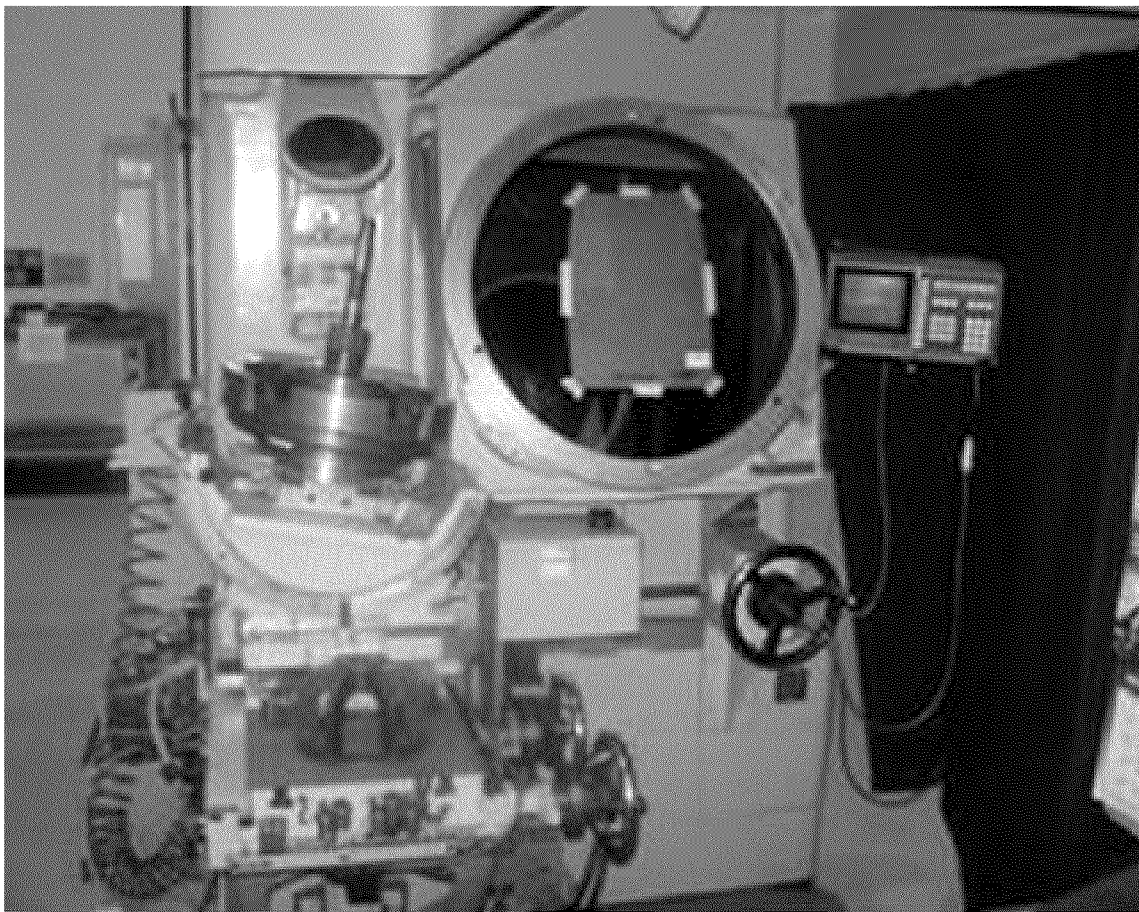
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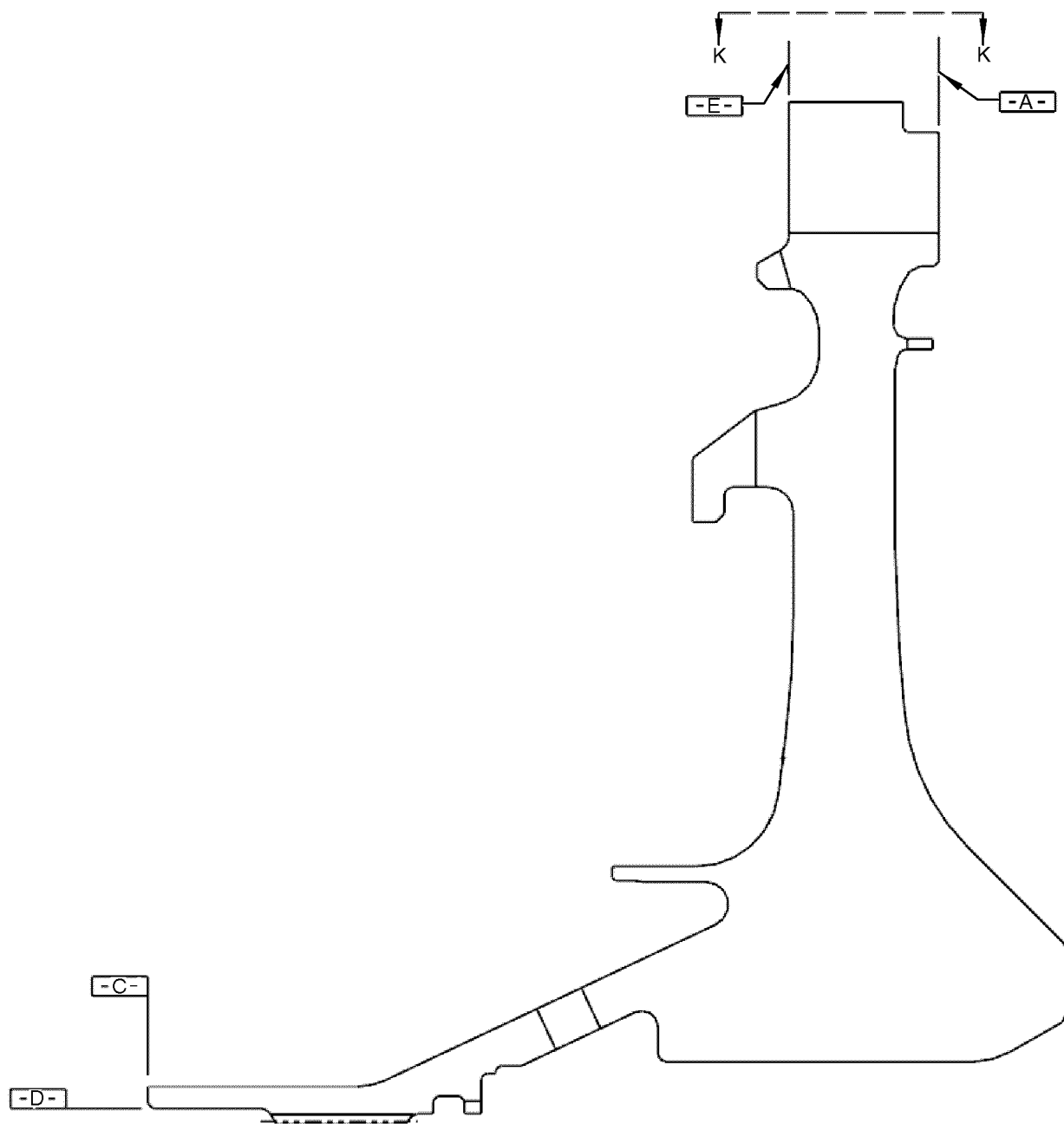
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JONES AND LAMSON 20X OPTICAL COMPARATOR
FIGURE 1

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PN 2A5001 DATUM AND CONSTRAINT REQUIREMENTS
FIGURE 2

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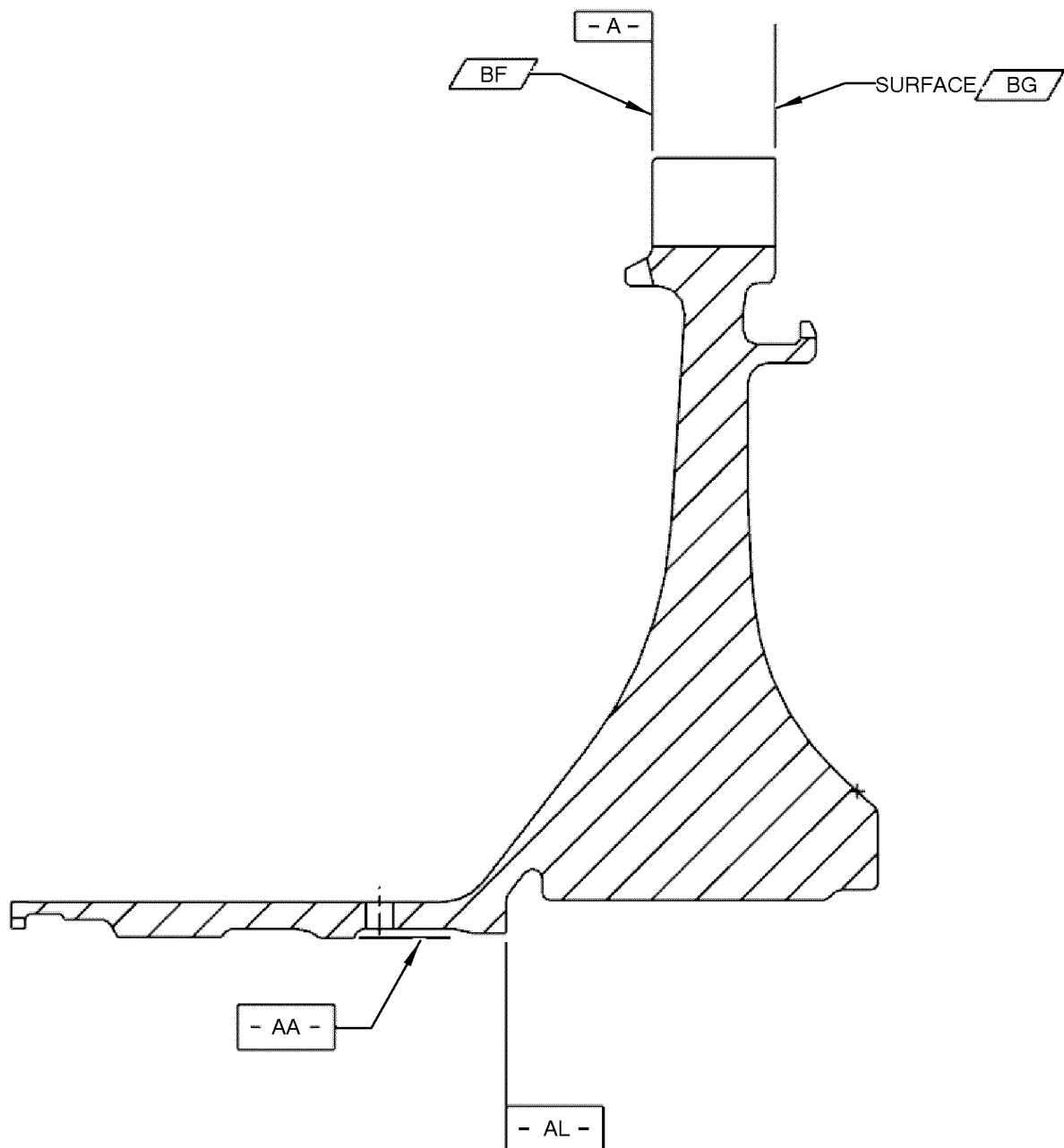
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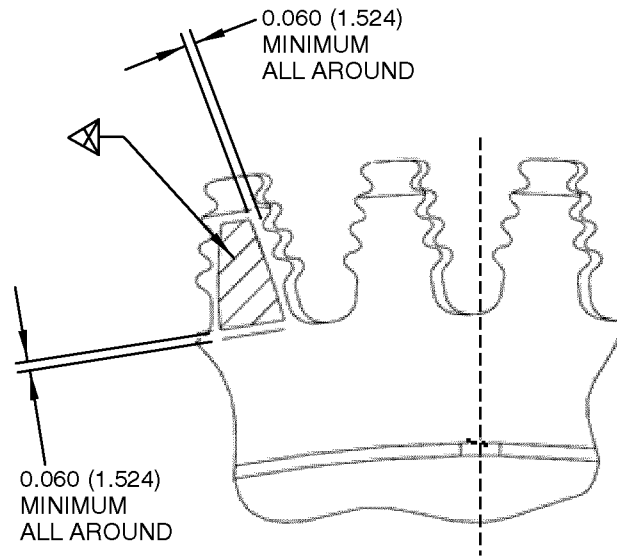
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PN 2A4802 DATUM AND CONSTRAINT REQUIREMENTS
FIGURE 3

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B525817

NMSB MARKING LOCATION REQUIREMENT FOR HPT STAGE 1 HUB, PN 2A5001
FIGURE 4

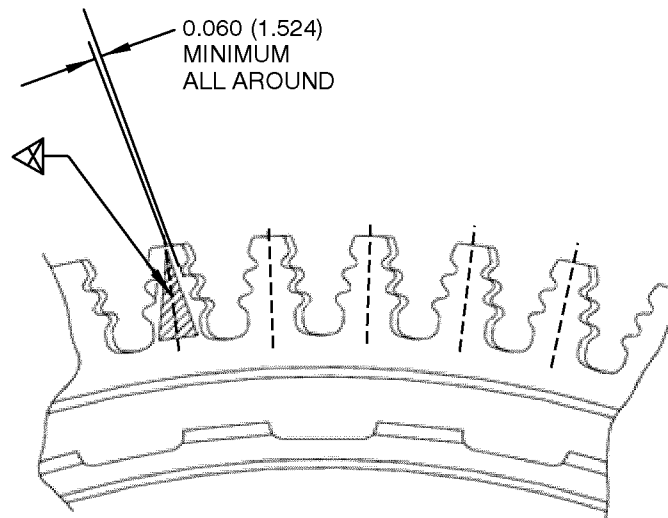
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NMSB MARKING LOCATION REQUIREMENT FOR HPT STAGE 2 HUB, PN 2A4802
FIGURE 5

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Accomplishment Proforma for PN 2A5001

Part Serial Number: _____

Hours/Cycles: _____ / _____

Inspector Signature	Date

Inspection Results	Accept	Reject
1. Tool Marks – Inspect to the limits on tooling card IAE 2P16620 Revision A		
2. Form – Inspect to the limits on tooling card IAE 2P16620 Revision A and mylar chart 2A5001T124		

This document contains no technical data subject to the EAR or the ITAR.

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ACCOMPLISHMENT PROFORMA FOR PN 2A5001 FIGURE 6

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Accomplishment Proforma for PN 2A4802

Part Serial Number: _____

Hours/Cycles: _____ / _____

Inspector Signature	Date

Inspection Results	Accept	Reject
1. Tool Marks – Inspect to the limits on tooling card IAE 2P16622 Revision A		
2. Form – Inspect to the limits on tooling card IAE 2P16622 Revision A and mylar chart 2A4802T108		

This document contains no technical data subject to the EAR or the ITAR.

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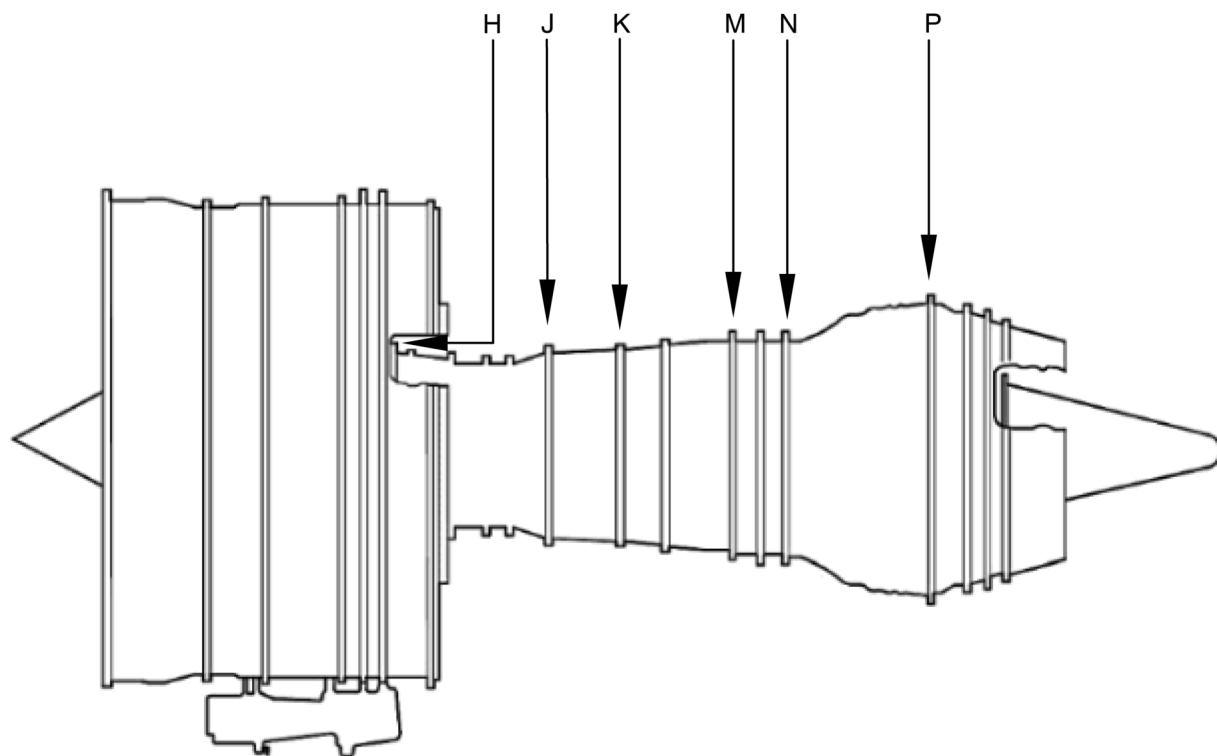
ACCOMPLISHMENT PROFORMA FOR PN 2A4802
FIGURE 7

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ENGINE MAJOR FLANGES
Figure 8

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Appendix

Added Data

Internal Reference Information

Revision No.	Reference Document	Origination
Original	EA15VC413	MK/ALT
1	EA15VC413A	MK/IEL
2	EA15VC413B	MK/RCM
3	EA15VC413C	MK/JEJ
4	EA15VC413D	MK/JAC
5	EA15VC413E	MK/JAC

Number values shown in parentheses adjacent to U.S. values are International System of units (SI) equivalents.

To calculate part life, include the hours and/or cycles since the part was made. Use the total hours or cycles to calculate life limits that are the result of part modification, a part used in an engine with different thrust, or for some other reason.

NOTE: In 2014 IAE converted the V2500 Technical Publications to a new system. As a result of the conversion, some manuals were consolidated. All manuals received new P&W part numbers. To facilitate the use of this Service Bulletin, the following Technical Publications cross reference table is provided.

Technical Publications Cross Reference Table

Publication	Engine Model(s)	IAE IETM Pub Ref	P&W Part Number
ENGINE MANUAL — A1, A5	All	E-V2500-11A	2A4407
ENGINE MANUAL — D5	All	E-V2500-31A	2A4416
SPPM (SPM) — A1, A5, D5	All	SPP-V2500-11A	2A4414

Appendix A

Table 1 — Serial Numbers for HPT Stage 1 Hub, PN 2A5001

PKLBB27773	PKLBB42758	PKLBB42759	PKLBB42762	PKLBB42763	PKLBB42764
PKLBB42765	PKLBB42766	PKLBB42767	PKLBB42768	PKLBB42769	PKLBB42771
PKLBB42772	PKLBB42774	PKLBB42775	PKLBB42776	PKLBB42777	PKLBB42780
PKLBB67985	PKLBB67990	PKLBB67992	PKLBB67995	PKLBB67996	PKLBB67997
PKLBB67999	PKLBB68001	PKLBB68002	PKLBB68004	PKLBB68005	PKLBB68006

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PKLBB68008	PKLBB68009	PKLBE36610	PKLBE36611	PKLBE36612	PKLBE36614
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PKLBE36622	PKLBE36623	PKLBE36624	PKLBE36625	PKLBE36626	PKLBE36627
PKLBF04717	PKLBF04718	PKLBF04719	PKLBF04720	PKLBF04721	PKLBF04722
PKLBF05654	PKLBF05655	PKLBF05656	PKLBF09574	PKLBF09575	PKLBF09576
PKLBF09577	PKLBF09578	PKLBF27957	PKLBF27959	PKLBF27961	PKLBF74800
PKLBF74801	PKLBF74802	PKLBF74803	PKLBF74804	PKLBF75471	PKLBF75472
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PKLBG58778	PKLBG58780	PKLBG58781	PKLBG58783	PKLBG59402	PKLBG59403
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PKLBG84408	PKLBG84409	PKLBG84410	PKLBG84411	PKLBG87431	PKLBG87432
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PKBLH9981	PKBLH9982	PKBLJ0369	PKBLJ0370	PKBLJ0371	PKBLJ0373
PKBLM4480	PKBLM4481	PKBLM4482	PKBLM4483	PKBLM4484	PKBLM4485
PKBLM4486	PKBLM4487	PKBLM4488	PKBLM4489	PKBLM5401	PKBLM5402
PKBLM5403	PKBLM5404	PKBLM5405	PKBLM5406	PKBLM5407	PKBLM5408
PKBLM5409	PKBLM5410	PKBLM5864	PKBLM5865	PKBLM5866	PKBLM5867
PKBLM5868	PKBLM5869	PKBLM5870	PKBLM5871	PKBLM5872	PKBLM5873

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PKLBLM7470	PKLBLM7471	PKLBLM7472	PKLBLM7473	PKLBLM7474	PKBLBR9744
PKBLBR9745	PKBLBR9746	PKBLBR9747	PKBLBR9748	PKBLBR9993	PKBLBR9994
PKBLBR9996	PKBLBR9997	PKLBLS9162	PKLBLS9163	PKLBLS9164	PKLBLS9165
PKLBLS9166	PKLBLS9167	PKBLBT9565	PKBLBT9566	PKBLBT9567	PKBLBT9568
PKBLBT9569	PKBLBT9570	PKLBLW9556	PKLBLW9557	PKLBLW9558	PKLBLW9559
PKLBLW9560	PKLBLW9561	PKLBLX9551	PKLBLX9552	PKLBLY0143	PKLBLY0144
PKLBLY0528	PKLBLY0529	PKLBLY0530	PKLBLY0531	PKLBLY0532	PKLBLY0533
PKLBLY0960	PKLBLY0961	PKLBLY0962	PKLBLY0963	PKLBLY0964	PKLBLY0965
PKLBLY0966	PKLBLY0967	PKLBLY0968	PKLBLY0969	PKLBLY0970	PKLBLY5619
PKLBLY5620	PKLBLY5621	PKLBLY5622	PKLBLY6301	PKLBLY6302	PKLBLY6303
PKLBLY6304	PKLBLY6495	PKLBLY6496	PKLBLY6497	PKLBLY6498	PKLBLY6499
PKLBLY6500	PKLBLY6532	PKLBLY6533	PKLBLY6534	PKLBLY6535	PKLBLY6536
PKLBLY6537	PKLBLY6538	PKLBLY9369	PKLBLY9370	PKLBLY9371	PKLBLY9372
PKLBLY9373	PKLBLY9374	PKLBLY9990	PKLBLY9991	PKLBMA0410	PKLBMA0411
PKLBMA0412	PKLBMA8158	PKLBMA8160	PKLBMA8161	PKLBMA8162	PKLBMA8163
PKLBMA9584	PKLBMA9585	PKLBMA9586	PKLBMA9587	PKLBMA9588	PKLBMA9672
PKLBMA9673	PKLBMA9674	PKLBMA9675	PKLBMA9676	PKLBMC8756	PKLBMC8817
PKLBMC8818	PKLBMC8819	PKLBMC8820	PKLBMC8821	PKLBMC8822	PKLBMC8823
PKLBMC8824	PKLBMC8825	PKLBMC8826	PKLBMC8827	PKLBMC8828	PKLBMD3184
PKLBMD3185	PKLBMD3186	PKLBMD3187	PKLBMD3188	PKLBMD3189	PKLBMD3190
PKLBMD3191	PKLBMD3192	PKLBMD3193	PKLBMD3444	PKLBMD3445	PKLBMD3446
PKLBMD3447	PKLBMD3448	PKLBMD3449	PKLBMD3450	PKLBMD3451	PKLBMD3452
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PKLBMD6319	PKLBMD6320	PKLBMD6321	PKLBMD6322	PKLBMF4086	PKLBMF4087
PKLBMF4088	PKLBMF4089	PKLBMF4090	PKLBMF7856	PKLBMG0236	PKLBMG0237
PKLBMG0238	PKLBMG0239	PKLBMG0240	PKLBMG0241	PKLBMG0242	PKLBMG0243
PKLBMG0244	PKLBMG0245	PKLBMG0891	PKLBMG0892	PKLBMG0893	PKLBMG0894
PKLBMG0895	PKLBMG0896	PKLBMG0897	PKLBMG0898	PKLBMG0900	PKLBMG0997
PKLBMG6879	PKLBMG6880	PKLBMG6881	PKLBMG6882	PKLBMG6883	PKLBMG6884
PKLBMG7328	PKLBMG7329	PKLBMG7331	PKLBMG7332	PKLBMG7333	PKLBMG7334
PKLBMG8631	PKLBMG8632	PKLBMG8635	PKLBMG8636	PKLBMG9458	PKLBMG9459
PKLBMG9460	PKLBMG9461	PKLBMG9462	PKLBMG9463	PKLBMG9464	PKLBMG9863
PKLBMG9864	PKLBMG9865	PKLBMG9866	PKLBMG9903	PKLBMG9904	PKLBMG9905
PKLBMJ8627	PKLBMJ8628	PKLBMJ9635	PKLBMJ9636	PKLBMJ9637	PKLBMJ9638

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PKLBMJ9940	PKLBMJ9941	PKLBMJ9942	PKLBMJ9943	PKLBMJ9944	PKLBMJ9945
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PKLBMK0331	PKLBMK0332	PKLBMK2827	PKLBMK2828	PKLBMK2829	PKLBMK2831
PKLBMK2832	PKLBMK2833	PKLBMK2834	PKLBMK2835	PKLBMK2836	PKLBML7768
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PKLBMN8679	PKLBMN8680	PKLBMN8681	PKLBMN8682	PKLBMN8683	PKLBMN8684
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PKLBNG9874	PKLBNG9875	PKLBNG9876	PKLBNG9877	PKLBNG9878	PKLBNG9879
PKLBNG9880	PKLBNG9881	PKLBNG9882	PKLBNG9883	PKLBNG9884	PKLBNG9885
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PKLBNG9892	PKLBNG9893	PKLBNG9894	PKLBNG9895	PKLBNG9896	PKLBNG9897
PKLBNG9898	PKLBNG9899	PKLBNG9900	PKLBNG9901	PKLBNG9902	PKLBNG9903
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PKLBNG9982	PKLBNG9983	PKLBNG9984	PKLBNG9985	PKLBNG9986	PKLBNG9987
PKLBNG9988	PKLBNG9989	PKLBNG9990	PKLBNG9991	PKLBNG9992	PKLBNG9993
PKLBNG9994	PKLBNG9995	PKLBNG9996	PKLBNG9997	PKLBNG9998	PKLBNG9999

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PKLBH7675	PKLBH8327	PKLBH8328	PKLBH8329	PKLBH8330	PKLBH8331
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PKLBNJ0068	PKLBNJ0069	PKLBNJ0070	PKLBNJ0071	PKLBNJ1064	PKLBNJ1065
PKLBNJ1066	PKLBNJ1067	PKLBNR3629	PKLBNR3630	PKLBNR3631	PKLBNR3875
PKLBNR3876	PKLBNR3878	PKLBNR3879	PKLBNR4127	PKLBNR4128	PKLBNR4129
PKLBNR4130	PKLBNR4135	PKLBNR4136	PKLBNR4137	PKLBNR4138	PKLBNR4906
PKLBNR4907	PKLBNR4908	PKLBNR9169	PKLBNR9170		

Table 2 — Serial Numbers for HPT Stage 2 Hub, PN 2A4802

PKLBB42787	PKLBB42791	PKLBB42792	PKLBB42793	PKLBB42794	PKLBB42795
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PKLBB42804	PKLBB42805	PKLBE35108	PKLBE35109	PKLBF04723	PKLBF04724
PKLBF04725	PKLBF04726	PKLBF04727	PKLBF28911	PKLBF28912	PKLBF28914
PKLBF28915	PKLBF28916	PKLBF74881	PKLBF74882	PKLBF74883	PKLBF74884
PKLBF74885	PKLBF74886	PKLBF74887	PKLBF74888	PKLBF75470	PKLBF77318
PKLBF77319	PKLBF77320	PKLBF78043	PKLBF78044	PKLBF78046	PKLBF78588
PKLBF78589	PKLBF78590	PKLBF78650	PKLBF96516	PKLBF96517	PKLBF96519
PKLBF96793	PKLBF97994	PKLBF97995	PKLBF97996	PKLBF97997	PKLBF97998
PKLBG16492	PKLBG16493	PKLBG16494	PKLBG16495	PKLBG58786	PKLBG58787
PKLBG58788	PKLBG58789	PKLBG58790	PKLBG58791	PKLBG59117	PKLBG59118
PKLBG59119	PKLBG59120	PKLBG59121	PKLBG59122	PKLBG68437	PKLBG68438
PKLBG68439	PKLBG68440	PKLBG68441	PKLBG68442	PKLBG77970	PKLBG77971
PKLBG77972	PKLBG77973	PKLBG77974	PKLBG77975	PKLBG79423	PKLBG79424
PKLBG79425	PKLBG79426	PKLBG79427	PKLBG79428	PKLBG84412	PKLBG84413
PKLBG84414	PKLBG84415	PKLBG84416	PKLBG84417	PKLBG87441	PKLBG87442
PKLBG87443	PKLBG87444	PKLBG87445	PKLBG87446	PKLBG94239	PKLBG94240
PKLBG94241	PKLBG94242	PKLBG94243	PKLBG94244	PKLBG96266	PKLBG98910
PKLBG98911	PKLBG98912	PKLBG98913	PKLBG98914	PKLBH03754	PKLBH03755
PKLBH03756	PKLBH03757	PKLBH03758	PKLBH03759	PKLBH14438	PKLBH14439
PKLBH14440	PKLBH14441	PKLBH14442	PKLBH14443	PKLBH17449	PKLBH17450
PKLBH17451	PKLBH17452	PKLBH17453	PKLBH17454	PKLBH17769	PKLBH17770
PKLBH19146	PKLBH19147	PKLBH19148	PKLBH19149	PKLBH19150	PKLBH19151
PKLBH19999	PKLBH26093	PKLBH26094	PKLBH26095	PKLBH26096	PKLBH26097
PKLBH27337	PKLBH27338	PKLBH27339	PKLBH27340	PKLBH27341	PKLBH27342

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PKLBH32019	PKLBH32020	PKLBH33393	PKLBH33394	PKLBH33395	PKLBH33396
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PKLBH49165	PKLBH49166	PKLBH59173	PKLBH59174	PKLBH59175	PKLBH59176
PKLBH59177	PKLBH59178	PKLBH59179	PKLBH59180	PKLBH59537	PKLBH59538
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PKLBH69825	PKLBH69826	PKLBH69827	PKLBH69828	PKLBH69829	PKLBH69830
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PKLBNS9604	PKLBNS9605	PKLBNS9607	PKLBNT5616	PKLBNT5618	PKLBNY3197
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U.S. Department
of Transportation
**Federal Aviation
Administration**

Engine and Propeller Directorate

Engine Certification Office
1200 District Avenue
Burlington, MA 01803
(781) 238-7140, Fax: (781) 238-7199

MAY 04 2017

Mr. Bryan Atkins
IAE Certification & Airworthiness
International Aero Engines AG
400 Main St.
East Hartford, CT 06108

Dear Mr. Atkins:

Subject: International Aero Engines AG Global Alternative Method of Compliance
(AMOC) to Airworthiness Directive (AD) 2016-18-10

The Federal Aviation Administration (FAA) Engine Certification Office (ECO) received your letter dated May 2, 2017, requesting a global AMOC to AD 2016-18-10, paragraphs (c)(1), (c)(2), (e)(1), (e)(2), and (e)(3) for the International Aero Engines AG (IAE) V2522-A5, V2524-A5, V2525-D5, V2527-A5, V2527E-A5, V2527M-A5, V2528-D5, V2530-A5, and V2533-A5 engines.

Paragraphs (c)(1) and (c)(2) of AD 2016-18-10 define applicability of the AD to engines that have specific high-pressure turbine (HPT) stage 1 and stage 2 hubs installed. These hubs are identified by part number/serial number combinations listed in Appendix A, Tables 1 and 2 of IAE NMSB V2500-ENG-72-0661 Rev. 2, dated May 27, 2016.

Paragraph (e)(1) of AD 2016-18-10 requires inspection and disposition of HPT stage 1 and stage 2 hubs at the next shop visit or according to the drawdown plan as specified in (e)(1)(i), (e)(1)(ii), (e)(1)(iii), (e)(1)(iv), whichever comes first.

Paragraphs (e)(2) and (e)(3) of AD 2016-18-10 identify the Accomplishment Instructions paragraphs of IAE NMSB V2500-ENG-72-0661 Rev. 2, dated May 27, 2016 for inspection and disposition of HPT stage 1 and stage 2 hubs.

IAE's proposal would allow operators to use IAE NMSB V2500-ENG-72-0661 Rev. 5, dated May 2, 2017 in lieu of IAE NMSB V2500-ENG-72-0661 Rev. 2, dated May 27, 2016. IAE's proposal would also relax the compliance period, allowing operators to inspect and disposition the affected HPT stage 1 and stage 2 hubs at the next shop visit.

The ECO reviewed the supporting data for your request and determined that the revised service bulletin provides an acceptable level of safety. Therefore, the FAA approves your global AMOC to paragraphs (c)(1), (c)(2), (e)(2), and (e)(3) of AD 2016-18-10, to use IAE NMSB V2500-ENG-72-0661 Rev. 5, dated May 2, 2017. FAA approves the allowance for compliance to paragraph (e)(1) to be accomplished at the next shop visit, as defined in paragraph (f) of AD 2016-18-10.

We have determined that this AMOC is of general applicability to the International Aero Engines AG (IAE) V2522-A5, V2524-A5, V2525-D5, V2527-A5, V2527E-A5, V2527M-A5, V2528-D5, V2530-A5, and V2533-A5 engine type designs, and therefore this letter is issued to IAE with the understanding that it may subsequently be distributed to operators. Operators may then use this letter, along with evidence of compliance with the terms of this letter, to document compliance to AD 2016-18-10.

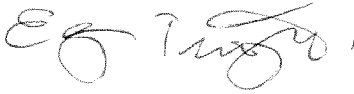
This FAA AMOC is transferable with the engine(s) to another owner or operator.

Before using this AMOC, operators must notify their appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

All provisions of FAA AD 2016-18-10 that are not specifically referenced above remain fully applicable and must be complied with accordingly.

If you have any questions or need additional information, please contact Brian Kierstead at 781-238-7772, fax 781-238-7199, or via electronic mail at brian.kierstead@faa.gov.

Sincerely,



 Thomas Boudreau
Manager, Engine Certification Office

cc: Pascal Lair – pascal.lair@easa.europa.eu
cc: Dave Dubuc – David.Dubuc@faa.gov

