

SERVICE BULLETIN

NON-MODIFICATION SERVICE BULLETIN – TURBINE COOLING AIR (TCA) TUBES
– INSPECTION FOR CABLE OR LOCKWIRE INSTALLATION

MODEL APPLICATION

V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5, V2533-A5

BULLETIN ISSUE SEQUENCE

V2500 Series 75-0124

ATA NUMBER

75-23-49

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Compliance Category

3

P&W Distribution Code

V2500

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Summary

The purpose of this Service Bulletin is to visually inspect the Turbine Cooling Air (TCA) tube bolts at four locations to ensure cable or lockwire is installed and is not broken. If the cable is broken, correct the condition per the Standard Practice Manual (SPM) Reference 2 and report it to the local IAE Field Service Representative.

Planning Information

Effectivity Data

Engine Models Applicable

V2522-A5, V2524-A5, V2527M-A5, V2527-A5, V2527E-A5, V2530-A5, V2533-A5
Engine Serial No. V15001 and Up

Concurrent Requirements

There are no concurrent requirements.

Reason

1. Condition: Turbine Cooling Air (TCA) tube flange bolts that attach the tubes to the High Pressure Turbine (HPT) Case have become loose on first run engines while in-service.
2. Background: The cable was found broken and the TCA tube flange bolt at the HPT case was found loose or had backed out on a number of in-service engines. In some cases, bolt liberation resulted in thrust reverser damage.
3. Objective: Visually inspect the four (4) each TCA tube bolts that are installed and secured correctly with cable or lockwire at four (4) locations on the HPT case. This NMSB provides instructions to inspect the four (4) locations for broken cable.
4. Substantiation: A visual inspection will ensure that the bolts are properly secured by cable or lockwire.
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.

Description

This Non-Modification Service Bulletin introduces an inspection method to ensure the TCA tube flange bolts are properly secured with cable or lockwire.

Compliance

Category 3

Accomplish at or before the next aircraft "A" check and at each subsequent "C" check.

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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.

The aircraft Type Certificate holder has been informed of this inspection.

Manpower

1. In Service
..... 0.25
2. At Overhaul
..... Not Applicable.

Weight and Balance

1. Weight Change
None.
2. Moment Arm
No Effect.
3. Datum
Engine Front Mount Centerline (Power Plant Station (PPS) 100)

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 — 75-23-49.
2. V2500 Standard Practices and Processes, P&W Ref. PN 2A4414, Chapter/Section 70-42-05,400-501, 70-42-08, 400-501.
3. A319/320/321 Aircraft Maintenance Manual, Chapter/Section 75-23-49, Installation of the Turbine Cooling Air (TCA) Tubes.
4. A319/320/321 Aircraft Maintenance Manual, Chapter/Section 70-40-11, Install Lockwire.

Other Publications Affected

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)

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.

Tooling — Price and Availability

Special tools are not required to accomplish this Service Bulletin.

Reidentified Parts

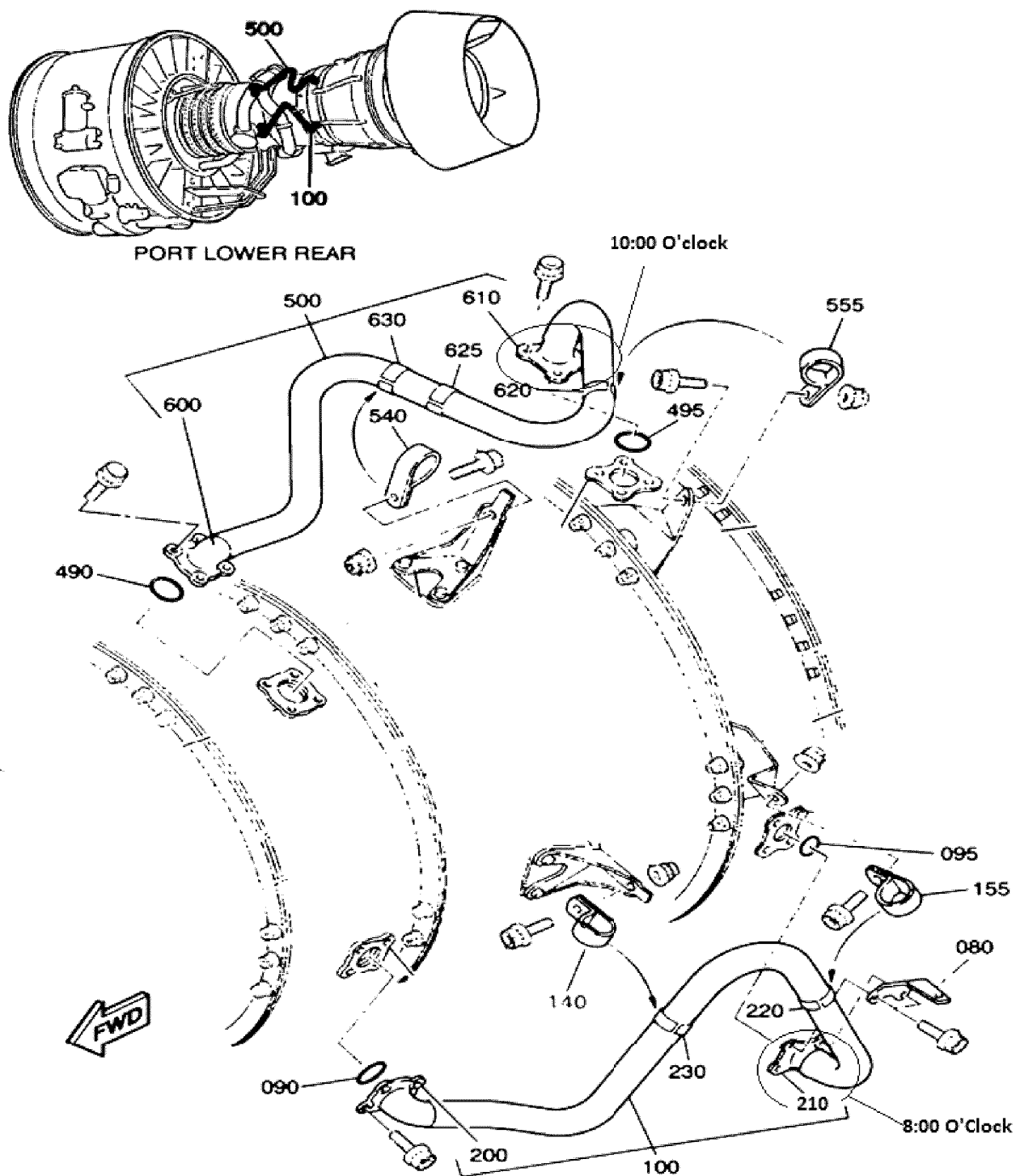
Not Applicable.

Other Material Information Data

Not Applicable.

Accomplishment Instructions

1. Visual Inspection
 - A. At "A" Check and each subsequent aircraft "C" check, visually inspect that four bolts are properly installed and secured with PN AS3510-02 Cable or lockwire at four locations on the outer diameter of the HPT case at 2:00, 4:00, 8:00 and 10:00 O'clock positions.
 - B. If PN AS3510-02 Cable or lockwire is found broken or loose, correct the condition per the SPM Reference 2 and report it to the local IAE Field Service Representative.
2. Recording Instructions
 - A. A record of accomplishment is required.



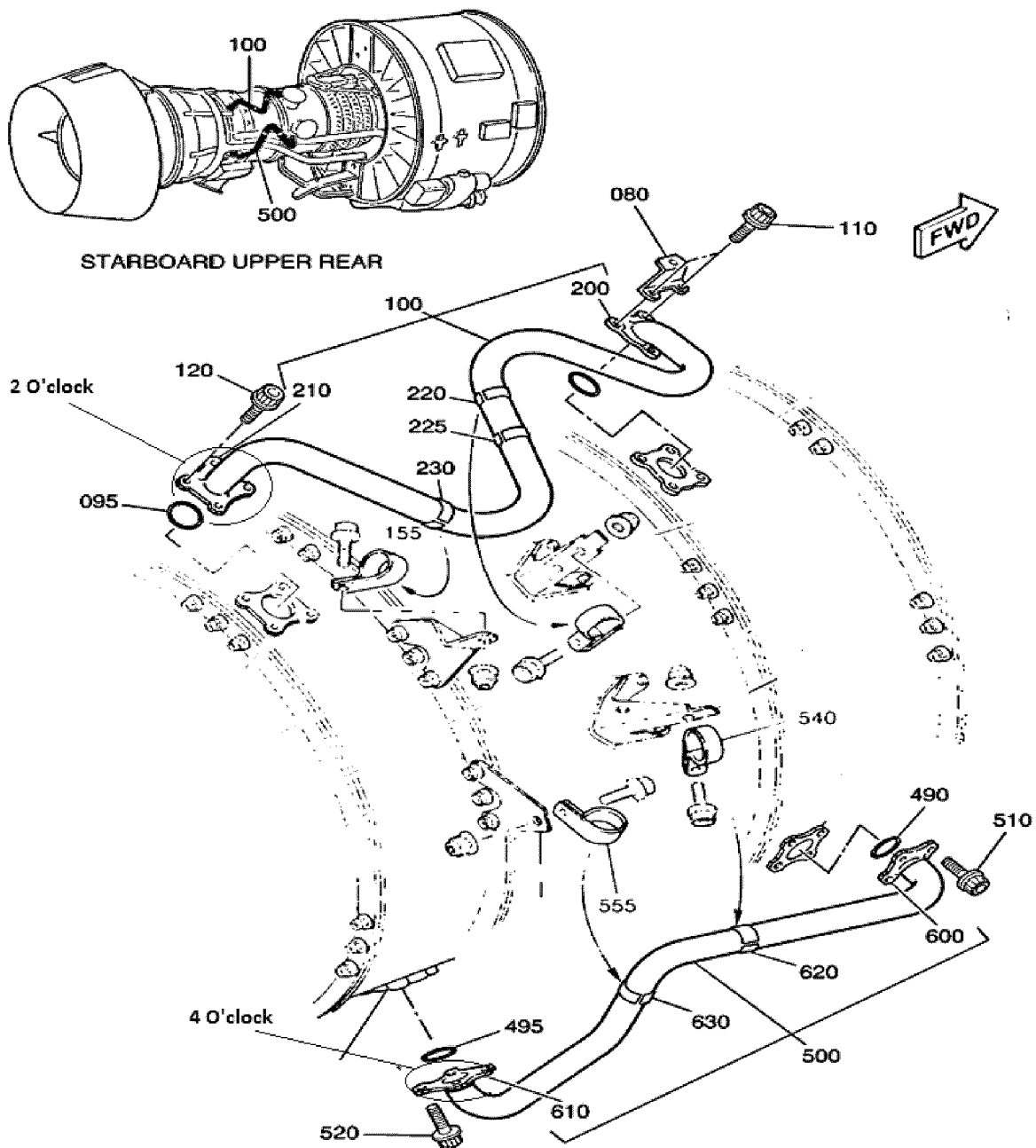
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LOCATION OF THE TCA TUBE BOLTS
75-23-42
FIGURE 1

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LOCATION OF THE TCA TUBE BOLTS
75-23-43
FIGURE 2

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Appendix

Added Data

Internal Reference Information

Revision No.	Reference Document	Origination
Original	EA15VC617	JO/IEL

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Technical Publications Cross Reference Table

Publication	Engine Model(s)	IAE IETM Pub Ref	P&W Part Number
SPPM (SPM) — A1, A5, D5	All	SPP-V2500-1IA	2A4414