



SERVICE BULLETIN

ENGINE - FAN CASE - PROVIDE DATA ACQUISITION INSTRUMENTATION AND HARDWARE - NOT APPLICABLE - MOD.ENG-72-0209

1. Planning Information

A. Effectivity

(1) Aircraft: Airbus A320

(2) V2500-A1 Engines, IAE to advise engine serial number and aircraft. This Service Bulletin must be incorporated only on one engine per aircraft.

Do this Service Bulletin after you do Service Bulletin V2500-ENG-72-0210.

This hardware will be installed for controlled service use.

B. Reason

These checks are introduced to access the operational pressure pulses in the HP Compressor, the operation of the handling bleed valves and the operations of the cabin air conditioning valves for service engines during service type operation testing with Dragonair.

C. Compliance

Not applicable

D. Approval

The "compliance" statement and the procedures described in paragraph F. of this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the Engine Model listed.

E. References

(1) Internal Reference No.

94VA101

94VA101A

(2) Other References

V2500-ENG-72-0210 (Engine - HP Compressor - Controlled Service Use of Instrumentation for HP Compressor and Handling Bleed Valve Checks)

V2500-A1 Engine Illustrated Parts Catalog (S-V2500-1IA)

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V2500 Standard Practices Manual (SPP-V2500-1IA)

A320 Aircraft Maintenance Manual

F. Action

- (1) Install the Compressor Stability Monitoring Equipment at the direction of the International Aero Engines Representative and as follows:

NOTE: This installation is provided for controlled service use only and the hardware must be removed once the applicable data is gathered. The engine must be restored to the configuration used before incorporation of this Service Bulletin.

- (a) Remove any nuts and bolts from the flange bolt holes at the locations where you will install the tray support brackets.
- (b) Lubricate all the Bolts (that will be used) with CoMat 10-077 Approved Engine Oil.
- (c) Install the TJ14325 Bracket (1 off), the TJ63637 Bracket (1 off), and the TJ63638 Bracket (1 off).

- 1 Put the Bracket in position at the applicable location.
- 2 Install the Bolt(s) through the bolt hole(s).
- 3 Install the Nuts on the Bolts and tighten them with your hand.
- 4 Torque the bolts to 85 to 95 lbfin (9,604 to 10,734 Nm). Refer to References (3), Chapter/Section 70-41-00 Torque Tightening Technique.
- 5 Do step F. (1), (c) 1 through 4 for the two brackets that remain.

- (d) Install the TJ14323 Mount Tray on the engine as follows:

NOTE: The E900-503 Signal Splitter, the 704-15K36T Terminal Box Module and the TCM202 Thermocouple Module are installed on the Mount Tray.

- 1 Put the Mount Tray in position over the brackets. See Figure 1.
- 2 Install the AS21512 Bolts (4 off) through the bolt holes and thread them into the Nutplates on the Bracket.



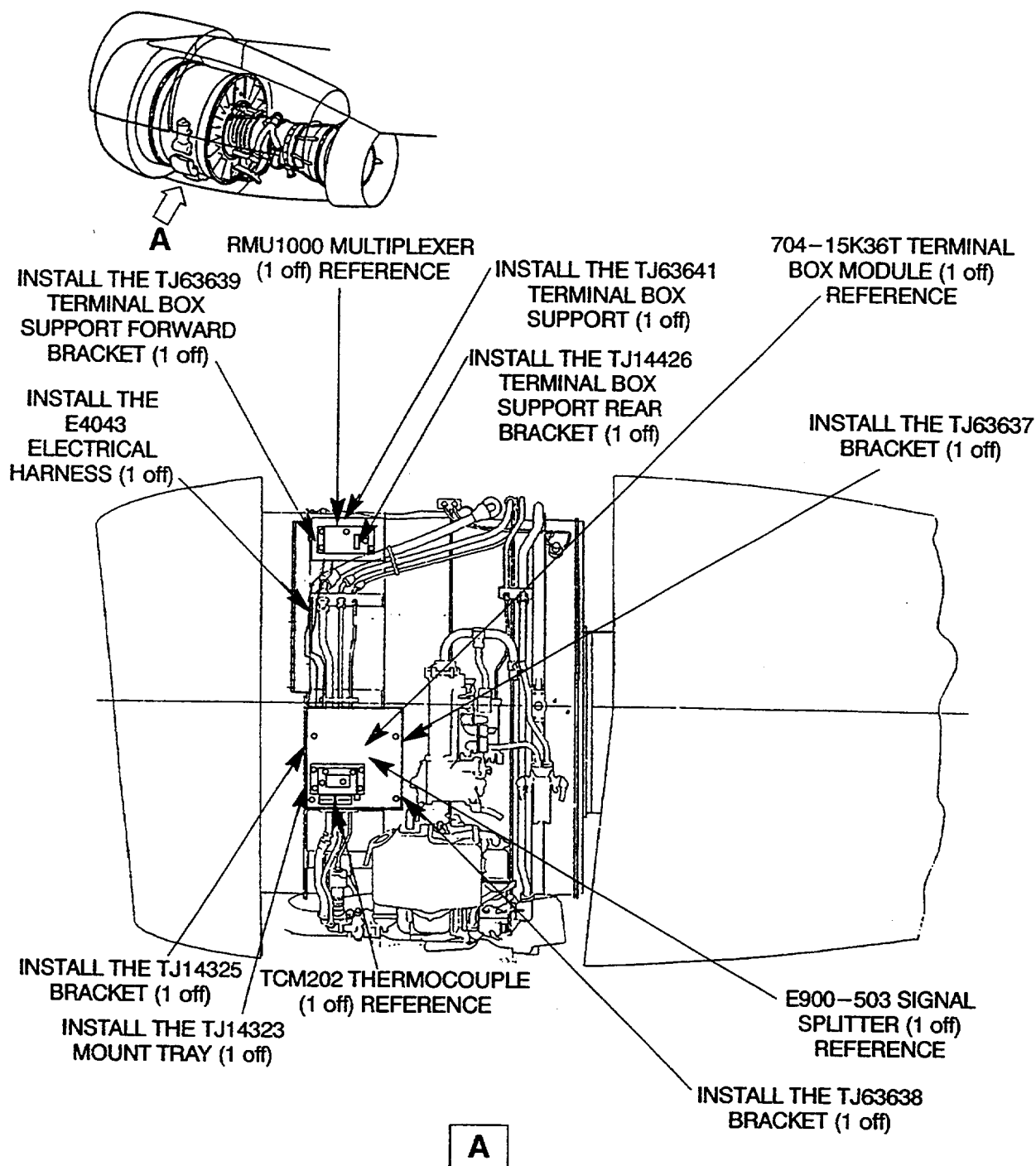
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- 3 Torque the Bolts to 85 to 95 lbfin (9,604 to 10,734 Nm). Refer to Reference (3), Chapter/Section 70-41-00 Torque Tightening Technique.
- (e) Install the TJ63639 Terminal Box Support Front Mount Bracket (1 off), and the TJ14426 Terminal Box Support Rear Bracket (1 off).
 - 1 Put the Bracket in position at the applicable location.
 - 2 Install the AS21013 Bolts (2 off) through the bolt holes.
 - 3 Install the AS20625 Nuts (2 off) on the bolts and tighten them with your hand.
 - 4 Torque the bolts to 85 to 95 lbfin (9,604 to 10,734 Nm). Refer to References (3), Chapter/Section 70-41-00, Torque Tightening Technique.
 - 5 Do Step F. (1), (e) 1 through 4 for the second bracket.
- (2) Install the TJ63641 Terminal Box Support on the engine as follows:

NOTE: The RMU1000 Multiplexer is installed on the TJ63641 Terminal Box Support

 - (a) Put the Terminal Box Support in position over the Brackets.
 - (b) Install the AS21010 Bolts (4 off) through the bolt hole(s) and thread into the Nutplates on the Brackets.
 - (c) Torque the bolts to 85 to 95 lbfin (9,604 to 10,734 Nm). Refer to Reference (3), Chapter/Section 70-41-00, Torque Tightening Technique.
- (3) Install the E4043 Electrical Harness (1 off) at the location shown in Figure 1.
 - (a) Attach the electrical harness to existing harnesses using suitable electrical ties.
 - (b) Make the applicable electrical electrical connections.
- (4) Do an operational test of the Electronic Engine Control by the procedure given in Reference (4), Chapter/Section 73-22-34, TASK 73-22-34-710-040.
- (5) Do an operational test of the FADEC System by the procedure given in Reference (4), Chapter/Section 73-22-00, TASK 73-22-00-710-040.
- (6) Do a High Power Assurance Test By the procedure given in Reference (4), Chapter/Section 71-00-00, Test-11, TASK 71-00-00-710-013.

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Location of Compressor Stability Monitoring Hardware
Fig.1

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2. Material Information

Applicability: For each V2500 Engine to incorporate this Bulletin.

A. Kits associated with this Bulletin:

None.

B. Parts affected by this Bulletin:

New Part No. (ATA No.)	Qty	Est'd Unit Price (\$)	Keyword	Old Part No. (IPC No.)	Instructions Disposition
RMU1000 (72-32-85)	1	-	Multiplexer	- (03-210)	(A) (B)
TCM202 (72-32-85)	1	-	Thermocouple Module	- (03-220)	(A) (B)
704-15K36T (72-32-85)	1	-	Terminal Box Module	- (03-230)	(A) (B)
E900-503 (72-32-85)	4	-	Signal Splitter	- (03-240)	(A) (B)
TJ14323 (72-32-85)	1	-	Mount Tray	- (03-250)	(A) (B)
TJ14325 (72-32-85)	1	-	Bracket	- (03-260)	(A) (B)
AS21512 (72-32-85)	5	-	Bolt	- (03-262)	(A) (B)
TJ63637 (72-32-85)	1	-	Bracket	- (03-270)	(A) (B)
TJ63638 (72-32-85)	1	-	Bracket	- (03-280)	(A) (B)
AS21010 (72-32-85)	4	-	Bolt	- (03-282)	(A) (B)
AS20625 (72-32-85)	4	-	Nut	- (03-286)	(A) (B)
E4043 (72-32-85)	1	-	Harness, Electrical	- (03-290)	(A) (B)
TJ63641 (72-32-85)	1	-	Support, Terminal Box	- (03-295)	(A) (B)
TJ14426 (72-32-85)	1	-	Bracket, Terminal Box Rear	- (03-300)	(A) (B)
TJ63639 (72-32-85)	1	-	Bracket, Terminal Box Forward	- (03-305)	(A) (B)
AS21010 (72-32-85)	4	-	Bolt	- (03-310)	(A) (B)
AS21013 (72-32-85)	4	-	Bolt	- (03-320)	(A) (B)
AS20625 (72-32-85)	4	-	Nut	- (03-330)	(A) (B)

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C. Disposition

- (A) The parts listed will be provided by the IAE Representative.
- (B) These parts are installed for controlled service use only and must be removed once the necessary data is obtained.

D. Consumable Material

COMAT 10-077

Approved Engine Oils