

POWER PLANT - ENGINE - EGT HARNESS - INTRODUCTION OF IMPROVED CLIPPING FOR CLIPPING
POINTS 5734, 5735 AND 5736 - CATEGORY CODE 4 - MOD.ENG-71-0061

1. Planning Information

A. Effectivity

- (1) Aircraft: Airbus A320
- (2) Engine: V2500-A1 Engine serial number prior to V0107

B. Reason

(1) Condition

EGT harness may be contacted by the C-duct bumper pads when the ducts are closed.

(2) Background

New clipping for the clipping point 5734, 5735 and 5736 provides increase clearances between the EGT harness and the C-duct.

(3) Objective

To ensure adequate clearances between the EGT harness and the C-duct.

(4) Substantiation

Substantiation test is not required.

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

| | |
|----------------------|---|
| Removal/Installation | Affected (See supplemental information) |
| Disassembly/Assembly | Not affected |
| Cleaning | Not affected |
| Inspection/Check | Not affected |
| Repair | Not affected |
| Testing | Not affected |

(6) Supplemental Information

- (a) The Post-Service Bulletin configuration requires instructions for removal and installation procedures.

C. Description

- (1) The changes introduced by this Service Bulletin are as follows:

V2500-ENG-71-0061



SERVICE BULLETIN

- (a) Spacer length and bolt length are changed to short ones at clipping point 5734. 5W1030 Spacer supersedes 5W1032 Spacer. 4W0109 Bolt supersedes 4W0115 Bolt.
- (b) A spacer is added for clipping point 5735 and bolt length change follows that. 5W1030 Spacer is added and 4W0109 Bolt supersedes 4W0102 Bolt.
- (c) The clip is transferred from the outboard to the inboard side of the tube lug at clipping points 5735 and 5736.

D. Approval

The part number changes and modifications described in Section 2 and 3 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. Compliance

Category Code 4

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

F. Manpower

Estimated Manhours to incorporate the full intent of this Bulletin:

| Venue | Estimated Manhours |
|-------------------------------------|-------------------------|
| (1) In service | TOTAL 1 hour 23 minutes |
| (a) To gain access | |
| (i) Open fan cowl doors | 17 minutes |
| (ii) Open thrust reverser halves .. | 18 minutes |
| | TOTAL 35 minutes |
| (b) To embody | |
| (i) Improve the clipping points .. | 8 minutes |
| | TOTAL 8 minutes |
| (c) To return to flyable status | |
| (i) Close thrust reverser halves .. | 21 minutes |

V2500-ENG-71-0061



SERVICE BULLETIN

(ii) Close fan cowl doors 19 minutes

TOTAL 40 minutes

G. Material - Price and Availability

- (1) Modification kit not required.
- (2) See "Material Information" section for prices and availability of future spares.

H. Tooling - Price and Availability

Special tools are not necessary

I. Weight and Balance

- (1) Weight change None.
- (2) Moment arm No effect.
- (3) Datum Engine front mount centerline
(Powerplant Section (P.P.S.) 100)

J. Electrical Load Data

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

K. References

- (1) Internal Reference No.
89VJ093
- (2) Other References
Aircraft Maintenance Manual; 71-13-00 Maintenance Practices and 78-32-00 Maintenance Practices.
V2500 Engine Manual; 70-00-50 Removal/Installation.

L. Other Publications Affected

- (1) V2500 Engine Illustrated Parts Catalog; 71-52-45.

V2500-ENG-71-0061



2. Accomplishment Instructions

A. Prerequisite Instructions

- (1) Open the Fan Cowls. (Refer to TASK 71-13-00-010-010, Aircraft Maintenance Manual).
- (2) Open the Thrust Reverser Halves. (Refer to TASK 78-32-00-010-010, Aircraft Maintenance Manual).

B. Assembly Instructions, refer to figure 1, 2 and 3.

CAUTION: CONFIRM THE HARNESS IS FREE FROM INTERFERENCE WITH ADJOINING PARTS WHILE YOU INSTALL CLIPS. INTERFERENCE CAN CAUSE DAMAGE TO HARNESS AND ADJOINING PARTS.

NOTE: Nominal clip size is used in this Service Bulletin, refer to V2500 Engine Illustrated Parts Catalog 70-40-10 for alternative clip size.

- (1) Replace spacer and bolt at clipping point 5734.
 - (a) Remove 4W0001 Nut, 5W1086 Washer, 5W1032 Spacer and 4W0115 Bolt and release 471-07, TA0210046FT07 or ST1455-07 Clip with the EGT harness from the lug of 5A8749 Tube.
 - (b) Reinstall the clip using new 4W0109 Bolt, 5W1086 Washer, new 5W1030 Spacer and 4W0001 Nut.
 - (c) Torque the nut to 36 to 45 lbfin (4 to 5 Nm).
- (2) Add spacer and replace bolt at clipping point 5735.
 - (a) Remove 4W0001 Nut, 5W1086 Washer and 4W0102 Bolt and release 471-07, TA0210046FT05 or ST1455-05 Clip with the EGT harness from the lug of 5A8749 Tube.
 - (b) Reinstall the clip to the in board side of the lug using new 4W0109 Bolt, 5W1086 Washer, added 5W1030 Spacer and 4W0001 Nut.
 - (c) Torque the nut 36 to 45 lbfin (4 to 5 Nm).
- (3) Change position of clip at clipping point 5736.
 - (a) Remove 4W0001 Nut, 5W1086 Washer and 4W0102 Bolt and release 471-04, TA0210046FT05 or ST1455-05 Clip with the EGT harness from the lug of 5A8749 Tube.
 - (b) Reinstall the clip to the inboard side of the lug using 4W0102 Bolt, 5W1086 Washer and 4W0001 Nut.

V2500-ENG-71-0061



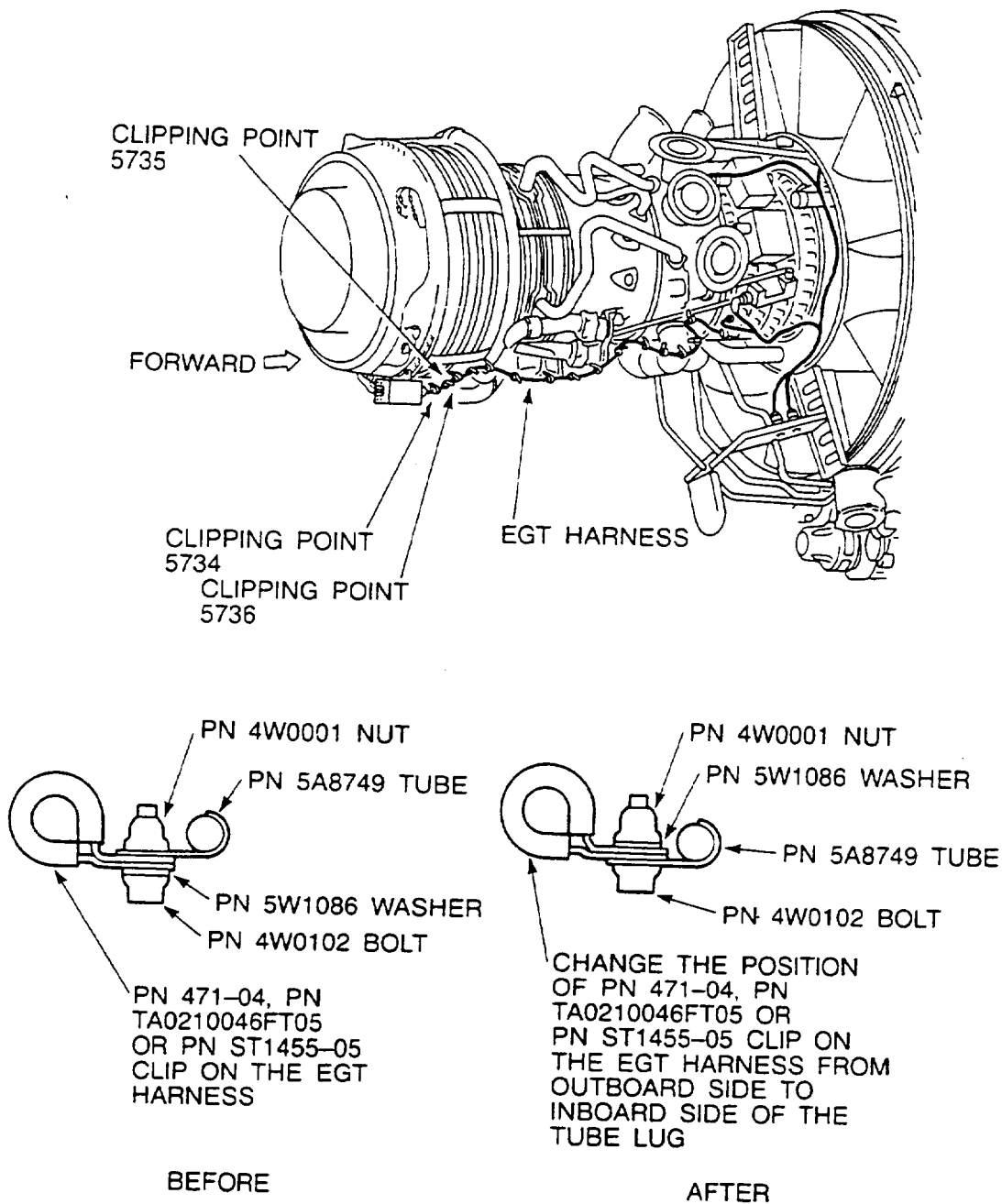
(c) Torque the nut to 36 to 45 lbfin (4 to 5 Nm).

C. Postrequisite Instructions

- (1) Close the Thrust Reverser Halves. (Refer to TASK 78-32-00-410-010, Aircraft Maintenance Manual).
- (2) Close the Fan Cowls. (Refer to TASK 71-13-00-410-010, Aircraft Maintenance Manual).

D. Recording Instructions

- (1) A record of accomplishment is required.



CLIPPING POINT 5736

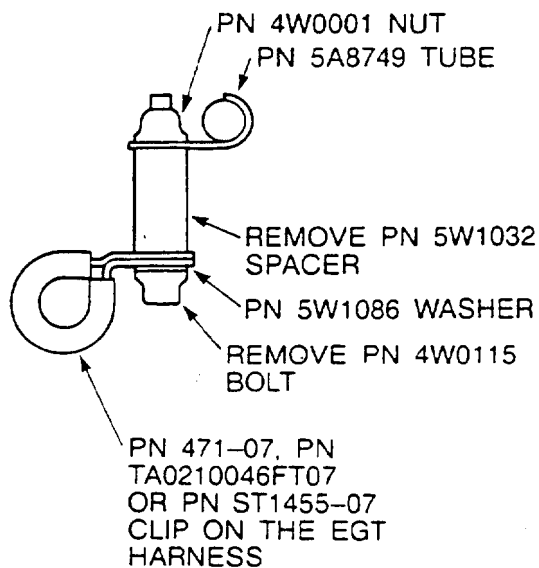
Location of the clipping points 5734, 5735 and 5736 and clipping arrangement
Fig.1

V2500-ENG-71-0061

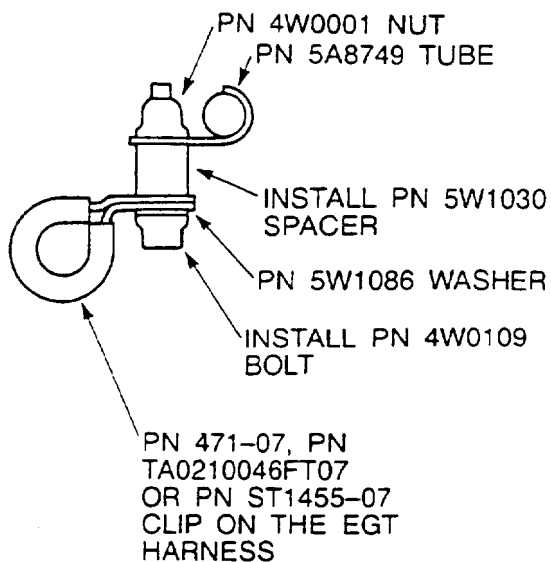


SERVICE BULLETIN

Printed in Great Britain

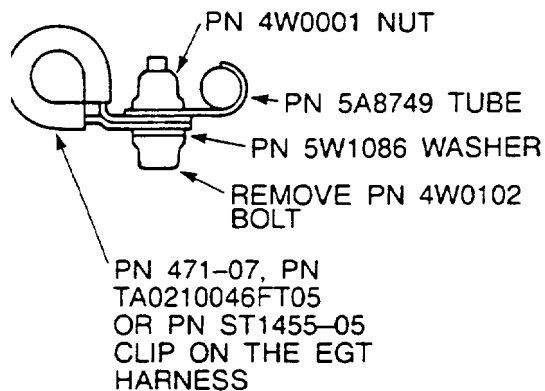


BEFORE

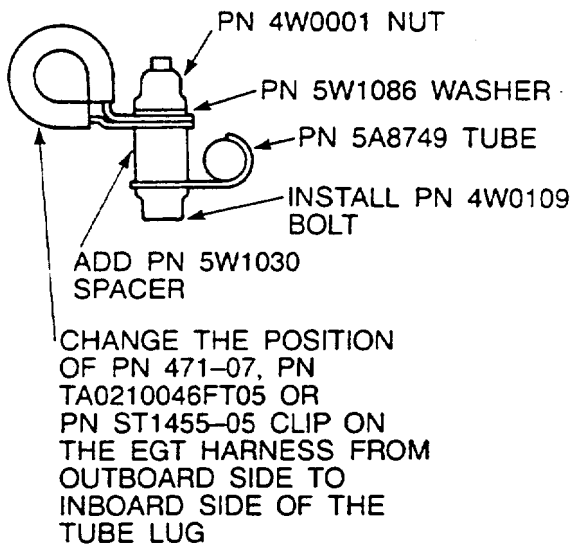


AFTER

CLIPPING POINT 5734



BEFORE



AFTER

CLIPPING POINT 5735

Clipping arrangement
Fig. 2

ded0000205

V2500-ENG-71-0061



SERVICE BULLETIN

3. 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.) | Supply Status |
|------------------------------|-----|-----------------------------|---------------|------------------------------|------------------|
| 4W0109 (71-52-45) | 1 | 2.96 | Bolt CP3734 | 4W0115 (01-166) | (S1)(A) |
| 5W1030 (71-52-45) | 2 | 13.00 | Spacer CP3734 | 5W1032 (01-171) | (s1)(A) |
| 4W0109 (71-52-45) | 1 | 2.96 | Bolt CP5735 | 4W0102 (01-555) | (S1)(A) |
| 5W1030 (71-52-45) | 1 | 13.00 | Spacer CP5735 | - | (S1)(A) |

C. Instructions/Disposition Code Statements:

(S1) New parts must be fitted as a set. Mixing of old and new parts is not permissible.

(A) New parts are currently available.

NOTE: The estimated 1990 unit prices shown are provided for planning purposes only and do not constitute a firm quotation. Consult the IAE Price Catalog or contact IAE's Spare Parts Sales Department for information concerning firm prices.

V2500-ENG-71-0061