

TECHNICAL BULLETIN

206L-14-250
19 October 2015

MODEL AFFECTED: 206L-3 and 206L-4

SUBJECT: ENGINE AFT COMBUSTION DRAIN VALVE
ASSEMBLY, REMOVAL OF

HELICOPTERS AFFECTED: Serial numbers 51001 through 51612, and 52001
through 52467.

[Serial number 52468 and subsequent will have the
intent of this bulletin accomplished prior to delivery.]

COMPLIANCE: At customer's option.

DESCRIPTION:

This Technical Bulletin is being published to provide instructions to remove the engine aft combustion drain valve assembly, as it is redundant for installation on these model helicopters. The Rolls-Royce Corporation (RRC) Commercial Engine Bulletin (CEB) 72-3300 must be accomplished prior to or concurrently with this Technical Bulletin.

APPROVAL:

The engineering design aspects of this bulletin are Transport Canada Civil Aviation (TCCA) approved.

CONTACT INFO:

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MANPOWER:

Approximately 1.0 man-hour is required to complete this bulletin. This estimate is based on hands-on time, and may vary with personnel and facilities available.

WARRANTY:

There is no warranty credit applicable for parts or labor associated with this bulletin.

MATERIAL:

Required Material:

The following material is required for the accomplishment of this bulletin and may be obtained through your Bell Helicopter Textron Supply Center.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Qty</u>
110-091-9C	ELBOW	1

Consumable Material:

The following material is required to accomplish this bulletin, but may not require ordering, depending on the operator's consumable material stock levels. This material may be obtained through your Bell Helicopter Textron Supply Center.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Qty</u>	<u>Reference *</u>
2400-10528-00	Anti-seize compound	AR	C-522 (Note 1)

* C-XXX numbers refer to the consumables list in the BHT-ALL-SPM, Standard Practices Manual

NOTE:

1. EASE OFF 990 may be used as an alternate material.

SPECIAL TOOLS:

None required.

WEIGHT AND BALANCE:

Not affected.

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

- BHT-206L-SERIES-IPB, Illustrated Parts Breakdown
- BHT-206L3-MM, Maintenance Manual
- BHT-206L4-MM, Maintenance Manual
- Rolls-Royce Corporation Commercial Engine Bulletin (CEB) 72-3300

PUBLICATIONS AFFECTED:

BHT-206L-SERIES-IPB, Illustrated Parts Breakdown, Chapter 71.

BHT-206L3-MM, Maintenance Manual, Chapter 71

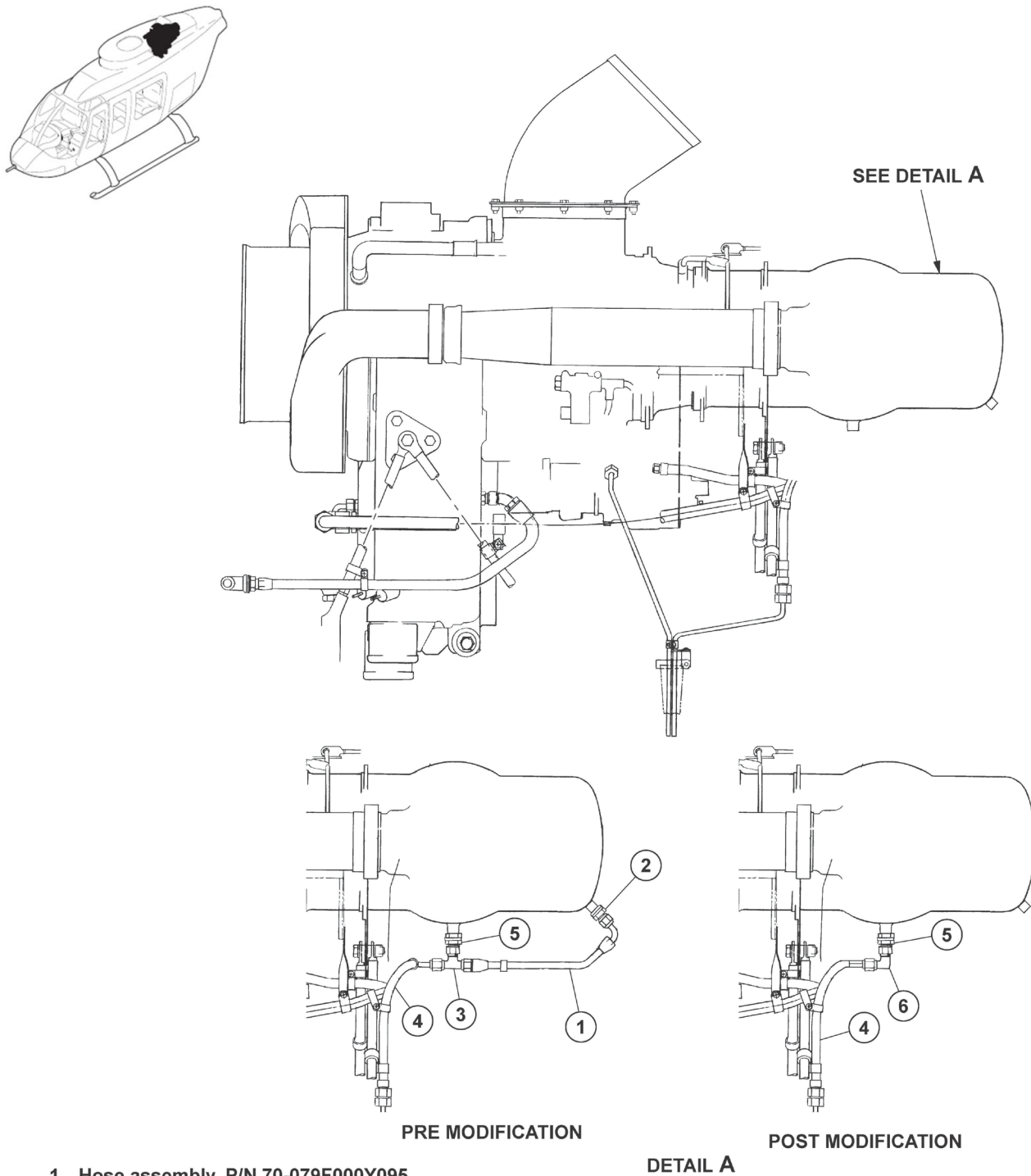
BHT-206L4-MM, Maintenance Manual, Chapter 71

ACCOMPLISHMENT INSTRUCTIONS:

-NOTE-

The Rolls-Royce Corporation Commercial Engine Bulletin (CEB) 72-3300 must be accomplished prior to or concurrently with this Technical Bulletin.

1. Prepare the helicopter for maintenance.
2. Disconnect the hose (1) from the aft combustion drain valve assembly (2) and tee fitting (3) installed on the forward combustion drain valve assembly (5, Figure 1).
3. Remove the aft combustion drain valve assembly (2) and install a plug fitting and o'ring per instructions in the Rolls-Royce Corporation Commercial Engine Bulletin (CEB) 72-3300.
4. Disconnect the drain hose (4) from the tee fitting (3) installed on the forward combustion drain valve assembly (5).
5. Remove the tee fitting (3) from the forward combustion drain valve assembly (5).
6. Apply a light coat of anti-seize compound (C-522) to the threads of the forward combustion drain valve assembly (5).
7. Install the elbow 110-091-9C (6) to the forward combustion drain valve assembly (5). Make sure to align the fitting to the mate with the drain hose (4) before tightening. Torque the fitting 135 to 190 inch-pounds (15 to 21 Nm).
8. Apply a light coat of anti-seize compound (C-522) to the threads of the elbow (6).
9. Connect the drain hose (4) to the elbow (6). Torque the fitting 135 to 190 inch-pounds (15 to 21 Nm).
10. Make an entry in the helicopter logbook and historical service records indicating compliance with this Technical Bulletin.



- 1. Hose assembly, P/N 70-079F000Y095
- 2. Drain valve assembly, AFT combustion, P/N 6854255
- 3. Tee fitting, P/N 110-089-4C
- 4. Hose assembly, P/N 70-079F000Y123
- 5. Drain valve assembly, forward combustion, P/N 6854255
- 6. Elbow, P/N 110-091-9C

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Figure 1 – Engine, Combustion Burner Drain Valve Assemblies (typical)



ENGINE - TURBINE, REMOVAL OF AFT COMBUSTION DRAIN VALVE

1. PLANNING INFORMATION

A. Effectivity

(1) Engines

All Rolls-Royce Model M250-C30P and M250-C47B engines operating in the Bell Helicopter airframe are affected by this bulletin as follows:

B. Reason

To allow the approved removal of the aft (45 degree angle) turbine combustion drain valve.

C. Description

This commercial engine bulletin gives you the procedure to replace the aft (45 degree angle) turbine combustion drain valve with a plug fitting. The aft turbine combustion drain valve, identified in Figure 1, is being removed from current Bell production aircraft using the M250-C30P and M250-C47B engine assemblies. Bell Helicopter TB 206L-14-250 and TB 407-14-114 allows for the removal of aircraft tubing from the aft turbine combustion drain valve.

D. Approval

Technical aspects are FAA approved.

E. Compliance

Compliance Code 7. To be complied with per customer option.

F. Interchangeability - Not affected

G. Material Availability

NEW P/N	NAME	QTY/ENG
MS9015-03	Fitting, plug	1
AS3208-03	Seal, O-ring	1

H. Tooling - Not applicable

I. Weight and Balance - Not affected

J. Electrical Load Data - Not affected

K. References

- (1) 14W2 Operation and Maintenance Manual, Turboshaft M250-C30, -C30S, -C30G (OMM).
- (2) 14W4 Illustrated Parts Catalog, Turboshaft M250-C30, -C30P, -C30M, -C30S, -C30G, -C30G/2, -C30P, -C30M (IPC).

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- (3) CSP 21001 Operation and Maintenance Manual, Turboshaft M250-C47B (OMM).
- (4) CSP 23001 Illustrated Parts Catalog, Turboshaft M250-C40B, -C47B and -C47M (IPC).
- (5) Bell Helicopter TB 206L-14-250.
- (6) Bell Helicopter TB 407-14-114.

L. Other Publications Affected - None

M. Prerequisites

- (1) Bell Helicopter TB 206L-14-250.
- (2) Bell Helicopter TB 407-14-114.

2. ACCOMPLISHMENT INSTRUCTIONS

A. Replace the aft turbine combustion drain valve assembly.

REF. FIG. 1

- (1) Remove the aft turbine combustion drain valve assembly (Ref. OMM).
- (2) Visually examine the drain plug boss for cracks.
- (3) Install the plug fitting and O-ring.
- (4) Torque the fitting to 120-140 in.lb (13.6-15.8 Nm).

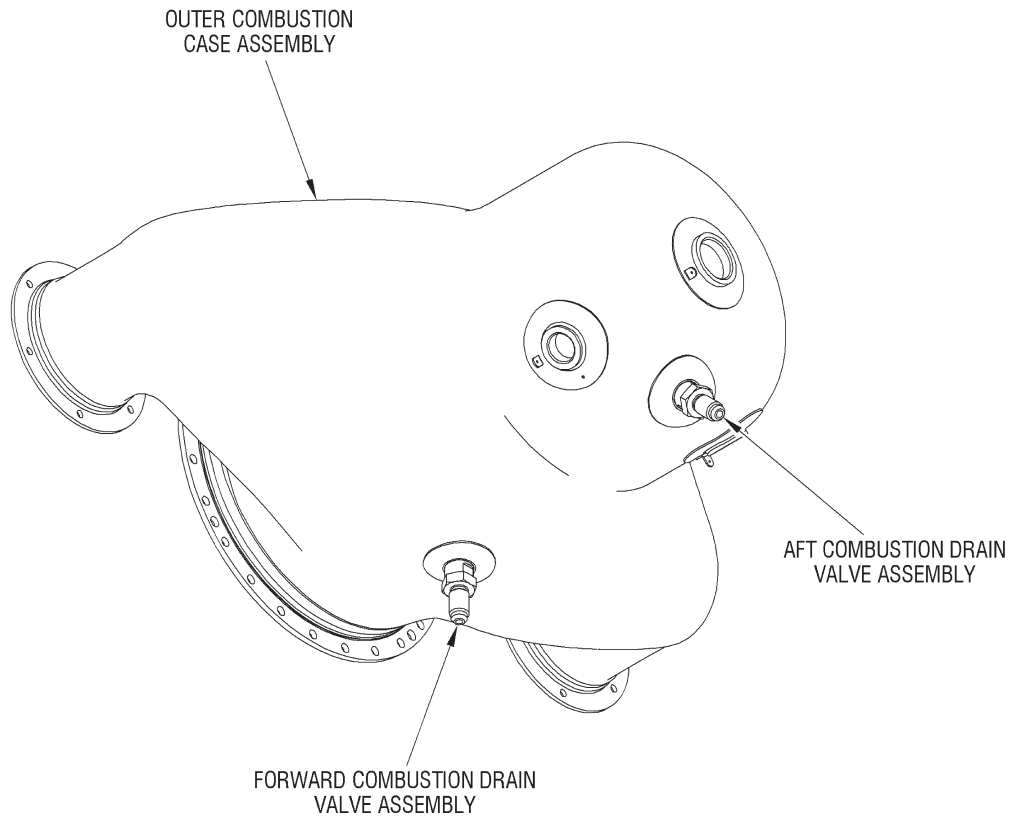
B. Record compliance with this service bulletin in the applicable section of the engine logbook, Turbine Assembly, Part III, Modification Record with the following:

M250-C30P Series	CEB 72-3300
M250-C47B Series	CEB 72-6082

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Aft Turbine Combustion Drain Valve Assembly
FIG. 1

APP011XA

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M250-C47B Series

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3. MATERIAL INFORMATION

- A. Basis for quantities is per engine assembly.
- B. Configuration Chart

NEW P/N	QTY/ ENG	NAME	OLD P/N	QTY/ ENG	INSTRUCTIONS/ DISPOSITION
MS9015-03	1	Fitting, plug	6854255	1	1
AS3208-03*	1	Seal, O-ring	AS3208-03*	1	2

INSTRUCTIONS/DISPOSITION NOTES

- 1. Remove, clean, inspect and properly tag for later usage if found acceptable for return to service.
- 2. Replace with new O-ring.

NOTE: * Reference CSL 6078 for -C47B and CSL 3176 for -C30P Alternate Consumable Materials.

CUSTOMER SUPPORT
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