



A Textron Company

**TECHNICAL BULLETIN**

**212-16-215**

16 November 2016

**MODEL AFFECTED:** 212

**SUBJECT:** ENGINE FUEL FILTER DRAIN SYSTEM REDUCER  
412-061-033-101, INTRODUCTION OF

**HELICOPTERS AFFECTED:** Serial numbers 30501 through 30999, 31101  
through 31311, 32101 through 32142 and 35001  
through 35103.

**COMPLIANCE:** At customer's option.

**DESCRIPTION:**

During engine fuel filter draining with boost pumps in operation, Bell Helicopter found that if the drain valve is open for extended period of time, some fuel may leak through the 212-060-676-001 check valve, migrate up to the fuel pump/fuel control cavity drain and contaminate the Automatic Fuel Control Unit (AFCU) drive bearing. To reduce the risk of AFCU bearing contamination, a reducer 412-061-033-101 is installed as a replacement of a standard union. In addition to the reducer installation, Bell Helicopter recommends opening the fuel filter drain valve for a maximum of 15 seconds during daily draining of the fuel filter and 30 seconds when the fuel filter is inspected or replaced. Applicability of this bulletin to any spare part shall be determined prior to its installation on an affected helicopter.

**APPROVAL:**

The engineering design aspects of this bulletin are FAA approved for FAA certified helicopters as listed in the applicable Type Certificate Data Sheet. For non FAA certified helicopters, the engineering design aspects of this bulletin are Bell Helicopter Engineering approved.

**CONTACT INFO:**

For any questions regarding this bulletin, please contact:

Bell Helicopter Product Support Engineering - Medium Helicopters  
Tel: 450-437-6201 / 1-800-363-8028 / psemedium@bh.com

**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>
412-061-033-101	Reducer	2
MS29512-06	Packing	2

**Consumable Material:**

None required.

**SPECIAL TOOLS:**

None required.

**WEIGHT AND BALANCE:**

Not affected.

**ELECTRICAL LOAD DATA:**

Not affected.

**REFERENCES:**

No reference.

**PUBLICATIONS AFFECTED:**

BHT-212-MM, Maintenance Manual  
BHT-212-IPB, Illustrated Parts Breakdown  
212VFR-FM-1, Flight Manual  
212IFR-FM-1, Flight Manual

## ACCOMPLISHMENT INSTRUCTIONS:

1. Prepare helicopter for maintenance.
  - a. Remove the AN 815-6J or AN 815-6S or AS5174J0606 union as applicable and install the 412-061-033-101 reducer with a new MS29512-06 packing (Figure 1).

-NOTE-

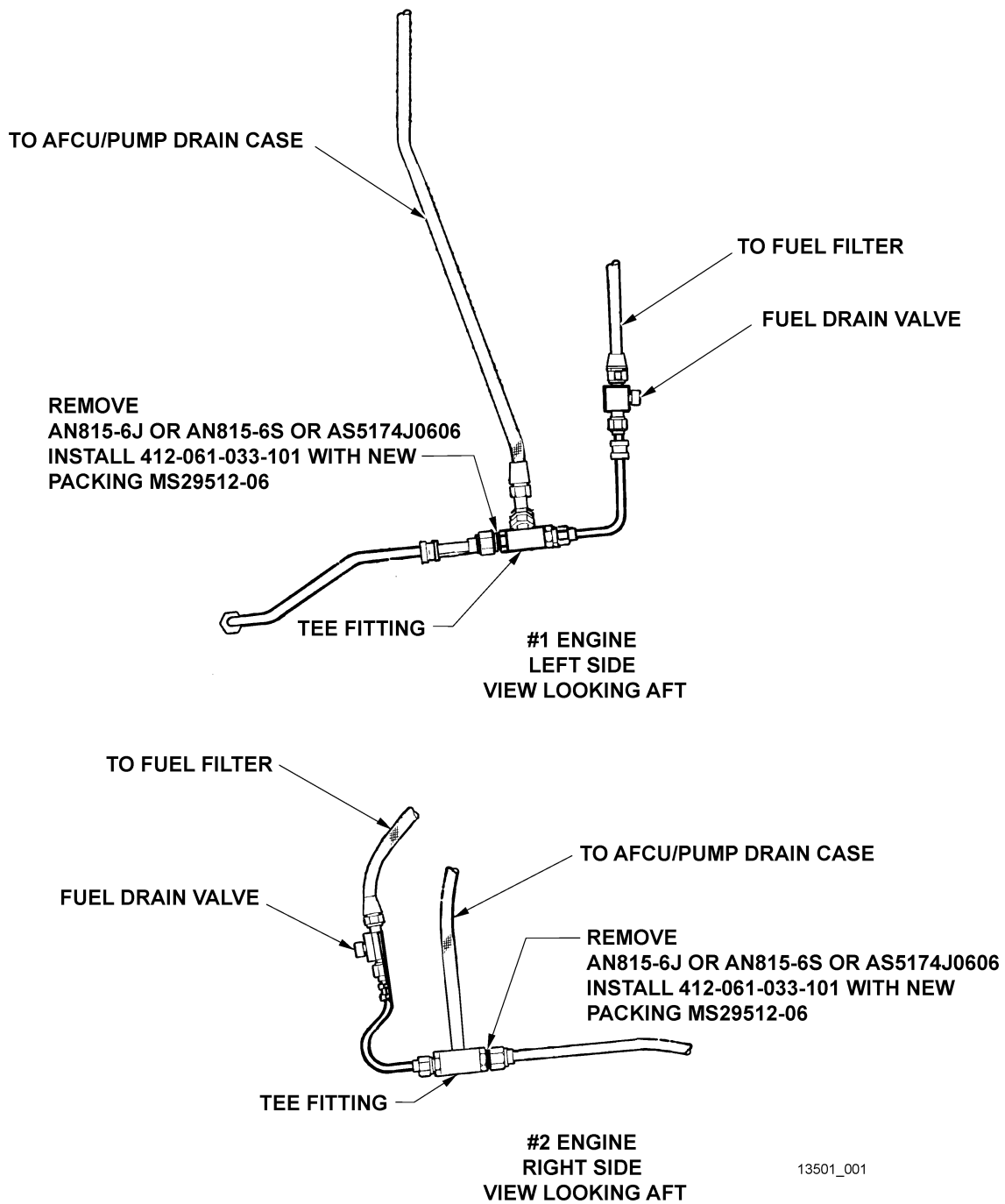
The applicable Flight Manuals will be revised to include the intent of step 2 below.

2. When performing daily engine fuel filter draining, open the fuel filter drain for a maximum of 15 seconds and drain one engine at a time. This procedure applies to both configurations; with or without the 412-061-033-101 reducer installed.

-NOTE-

The Maintenance Manual, Chapter 28, will have a "CAUTION" added to include the intent of step 3 below.

3. When draining the engine fuel filter after fuel filter inspection or replacement, open the fuel filter drain for a maximum of 30 seconds and drain one engine at a time. This procedure applies to both configurations; with or without the 412-061-033-101 reducer installed.
4. Make an entry in the helicopter logbook and historical service records indicating compliance with this Technical Bulletin.



**Figure 1.** Fuel filter drain reducer installation.