

ALERT SERVICE BULLETIN



NO. 222U-09-79
DATE Nov 10, 2009
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DATE
REV

MODEL AFFECTED: 222U

SUBJECT: MAIN ROTOR PENDULUM WEIGHT SUPPORT
P/N 222-011-114-101 and -103 REMOVAL FROM
SERVICE

HELICOPTERS AFFECTED: Model 222U helicopters serial number 47501
through 47574 and all spare pendulum supports.

COMPLIANCE: As soon as practical following the receipt of this
bulletin but no later than April 30, 2010.

DESCRIPTION:

Following extensive evaluation and testing of pendulum supports P/N 222-011-114
-103, Bell Helicopter has determined that those supports, in their current configuration,
may be subject to fatigue cracks which could lead to support failure, shedding the
pendulum weight set in flight.

This bulletin introduces a new support P/N 222-011-114-105, machined from corrosion
resistant steel and shotpeened, as a replacement for the removal from service of all
main rotor pendulum weight support P/N 222-011-114-101 and -103.

APPROVAL:

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

MANPOWER:

Approximately 6.0 man-hours are required to complete this bulletin. Man-hours are
based on hands-on time, and may vary with personnel and facilities available.

WARRANTY:

Owners / Operators of Bell Helicopters who comply with the instructions detailed in the accomplishment instructions of this Bulletin will be eligible for special 100% warranty credit.

To receive this credit:

- Purchase the required parts from an approved BHTI supply source
- Comply with the instructions contained in this bulletin no later than April 30, 2010.
- Submit a completed malfunction report to BHTI Warranty no later than 30 days after completion of this bulletin.

There is no warranty credit for 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>Quantity</u>
222-011-114-105	Support	4 per a/c

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>Quantity</u>	<u>Reference</u>
MIL-PRF-23377,TYICLC	Epoxy primer	1 OZ	C-204
MIL-PRF-85285, Type 1	Coating, Polyurethane	A/R	C-245
MIL-PRF-85582,Ty1 CL2	Primer, Polyurethane	A/R	C-246

SPECIAL TOOLS:

None required

WEIGHT AND BALANCE:

Not affected

ELECTRICAL LOAD DATA:

Not affected

REFERENCES:

BHT-222U-MM-6, Chapter 62
BHT-222-CR&O-2, Chapter 62

PUBLICATIONS AFFECTED:

BHT-222U-MM-6, Chapter 62

ACCOMPLISHMENT INSTRUCTIONS:

NOTE-

Removal of main rotor blades is not required to replace pendulum weight supports.

1. Remove and destroy all pendulum supports P/N 222-011-114-101 and -103 from any main rotor hub assembly.
2. Remove and destroy all pendulum supports P/N 222-011-114-101 and -103 from spares.

-NOTE-

Do not apply primer and paint to the threads, bolt holes, slot and faying surfaces with pendulum shaft and weight set.

3. Prepare/clean the pendulum support(s) and apply one coat of primer (C-246). After primer is cured, apply two coats of polyurethane paint (C-245) to specified area of the support. Color to be Grey, Color # 16440 per FED-STD 595 . Refer to BHT-ALL-SPM for preparation and painting procedures.

-NOTE-

Do not apply primer to the threads of the bolt(s) at assembly

-NOTE-

Main rotor dynamic balance may require adjustment following pendulum weight support replacement

-NOTE-

Prior to installation of support(s) 222-011-114-105, modification of pendulum damper shaft 222-011-113-101 per Technical Bulletin 222U-89-52 must be incorporated unless already accomplished

4. Install replacement pendulum support P/N 222-011-114-105 in accordance with procedure listed in BHT-230-CR&O-2, Chapter 62 except apply polyamide epoxy primer (C-204) to mating surfaces of supports, pendulum weight sets, 222-011-113-103 shafts and attaching bolts. While primer is still wet, assemble weights and supports on the shafts.

-NOTE-

Pendulum support P/N 222-011-114-105 has a 5000 hours retirement life/airworthiness limitation.

4. Annotate the aircraft records and pendulum supports historical cards to reflect compliance with this bulletin.