

Bell Helicopter **TEXTRON**

Bell Helicopter Textron Inc.
A Subsidiary of Textron Inc.

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OPERATIONS SAFETY NOTICE

4 December 1980

OSN 47-80-3

TO: OWNERS/OPERATORS OF ALL MODEL 47, H-13, OH-13,
TH-13, AND ALL MODEL HELICOPTERS USING MAIN ROTOR
GIMBAL RING, P/N 47-120-014 SERIES

SUBJECT: RETIREMENT OF MAIN ROTOR GIMBAL RINGS, P/N 47-120-
014-5, -6, -7, -9, -11, -13, -15, -17, -19, AND
-21

REFERENCE: SERVICE BULLETIN 47-76-4, REVISION A, DATED NOVEMBER
10, 1977

BELL HELICOPTER TEXTRON HAS RECEIVED TWO REPORTS OF MAIN ROTOR
GIMBAL RING, P/N 47-120-014-21, BEING INSTALLED ON MODEL 47 SERIES
HELICOPTERS. THE -21 HAS NOT BEEN AUTHORIZED FOR USE ON THE MODEL
47 SINCE SEPTEMBER 1976. REPORTS INDICATE THE -21 PART NUMBER
HAS BEEN CHANGED TO -23. FIELD MODIFICATION OR REWORK OF MAIN
ROTOR GIMBAL RINGS, P/N 47-120-014-5, -6, -7, -9, -11, -13, -15,
-17, -19 AND -21 INTO A P/N 47-120-014-23 CANNOT BE ACCOMP-
LISHED.

MAIN ROTOR GIMBAL RING, P/N 47-120-014-23, WAS A REDESIGN TO
CHANGE MATERIAL FROM ALUMINUM ALLOY 2014 TO ALUMINUM ALLOY 7075.
THIS CHANGE WAS MADE TO REDUCE SUSCEPTIBILITY TO STRESS CORROSION
CRACKING.

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REFERENCED SERVICE BULLETIN REQUIRED MAIN ROTOR GIMBAL RINGS P/N 47-120-014-5, -6, -7, -9, -11, -13, -15, -17, -19, AND -21, TO BE REPLACED WITH GIMBAL RING P/N 47-120-014-23 AT THE NEXT 1200 HOUR INSPECTION, BUT NOT LATER THAN SEPTEMBER 1, 1976, REGARDLESS OF THE NUMBER OF FLIGHT HOURS IN SERVICE.

THE PURPOSE OF THIS OSN IS TO REMIND OWNERS/OPERATORS THAT ONLY -23 GIMBAL RINGS MAY BE USED ON THE MODEL 47 AND URGE THEM TO INSPECT AND REPLACE ALL MAIN ROTOR GIMBAL RINGS WHICH ARE NOT AUTHORIZED FOR USE BY SERVICE BULLETIN 47-76-4.