

KU-KI-1102

No. TCD-5126-99

Date September 6, 1999

Japan Civil Aviation Bureau

TAIKUSEI-KAIZEN-TSUHO

Airworthiness Directive

The undermentioned examinations or modifications are mandatory.

1. Applies to : Kawasaki Model BK117 series helicopters equipped with tension-torsion-strap, Part Number (P/N) 2604067 or J17322-1.

2. Compliance required as indicated, unless already accomplished.

To prevent separation of the main rotor blade due to failure of the tension-torsion strap (TT strap), accomplish the following.

2.1 Before further flight after the effective date of this AD, remove any TT strap from service that has either accumulated 25,000 or more flights or exceeded a total of 15 years installation time. A maximum of 5 flights are

permitted for transfer to the service station.

Note: If the number of flights is unknown, carry out the following conversion to service life: 1 flight hour corresponds to 5 flights.

2.2 If a TT strap has accumulated between 10 and 15 years installation time on the effective date of this AD, accomplish the paragraph 2.2.1 or 2.2.2.

2.2.1 Remove the TT strap from service before exceeding $(25,000 - 3,000 \times (\text{strap installation time (years)} - 10))$ flights.

2.2.2 Before further flight, remove the TT strap from service if the number of flights of the TT strap has already exceeded the allowable number of flights specified in paragraph 2.2.1. A maximum of 5 flights are permitted for transfer to the service station.

2.3 If a TT strap has accumulated between 10 and 15 years on the effective date of this AD, but does not exceed the allowable number of flights specified in paragraph 2.2.1, inspect the TT strap in accordance with Kawasaki Service Bulletin No.KSB-117-155 dated August 20, 1999 or JCAB-

approved later revision (SB), within the following time period or before exceeding the allowable number of flights specified in paragraph 2.2.1, whichever occurs first. Inspection of TT strap in accordance with item 13.6 of Table 5-1 in Maintenance Manual is equivalent to the inspection required in this paragraph, if it is performed by a JCAB-approved organization after August 20, 1998.

- TT strap with accumulated installation time greater than 10 years, inspect within the next 6 weeks.
- TT strap with accumulated installation time greater than 11 years, inspect within the next 5 weeks.
- TT strap with accumulated installation time greater than 12 years, inspect within the next 4 weeks.
- TT strap with accumulated installation time greater than 13 years, inspect within the next 3 weeks.
- TT strap with accumulated installation time greater than 14 years, inspect within the next 2 weeks.

2.4 If a TT strap has not accumulated 10 years installation time on the effective date of this AD, inspect in accordance with SB before exceeding 25,000 flights or 10 calendar years, whichever occurs first.

2.5 If a defect is found as a result of the inspection required in paragraph 2.3 or 2.4, remove the TT strap from service prior to further flight. If no defect is found as a result of the inspection, remove the TT strap before exceeding 500 flights after the inspection, the allowable number of flights specified in paragraph 2.2.1, or 25,000 flights, whichever occurs first.

2.6 After accomplishing paragraph 2.1, 2.2 or 2.5, remove a TT strap at intervals not exceeding 10 years or 25,000 flights after the installation of the strap, whichever occurs first.

2.7 A TT strap stored as spare must be re-identified in accordance with SB, prior to installation into the main rotor head.

2.8 An alternative means of compliance with this AD may be used, if approved by the Director-General of JCAB.

3. Remarks

3.1 This AD becomes effective on September 28, 1999.

3.2 Kawasaki Service Bulletin No.KSB-117-155 dated August 20, 1999 or JCAB-approved later revisions pertain to this subject.