

KOKU-KU-KI-255

No. TCD-5126A-2001

Date July 26, 2001

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, J17322-1, 117-14110 or 117-14111.

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 For a TT strap which has not accumulated 10 years installation time on the effective date of this AD, remove the TT strap from service in accordance with Kawasaki Service Bulletin (SB) No.KSB-117-155B dated June 11, 2001 or JCAB-approved later revision before exceeding 25,000 flights or 10 years installation time, whichever occurs first. If a TT strap will exceed 10 years installation time before September 30, 2001, the removal may be delayed for 6 weeks.

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 Before further flight after the effective date of this AD, remove any TT strap from service that has either accumulated more

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<p>than 25,000 flights or exceeded a total of 15 years installation time. Maximum of 5 flights are permitted for ferry to the service station where the removal of TT strap is done.</p> <p>2.3 For a TT strap which has accumulated more than 10 years but not more than 15 years of installation time on the effective date of this AD, accomplish the paragraph 2.3.1 or 2.3.2.</p> <p>Note. This paragraph 2.3 is applicable only to the strap which was inspected in accordance with paragraph 2.3 or 2.4 of the AD No.TCD-5126-99 (previous AD).</p> <p>2.3.1 Remove the TT strap from service before exceeding $(25,000 - 3,000 \times (\text{strap installation time (years)} - 10))$ flights.</p> <p>2.3.2 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 2.3.1. Maximum of 5 flights are permitted for ferry to the service station where the removal of TT strap is done.</p> <p>2.4 For a TT strap which has accumulated more than 10 years but not more than 15 years of installation time on the effective date of this AD, but does not exceed the allowable number of flights specified in paragraph 2.3.1, inspect the TT strap in accordance with SB, within the following time period or before exceeding the allowable number of flights specified in paragraph 2.3.1, whichever occurs first.</p> <p>Note.1 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.</p> <p>Note.2 This paragraph 2.4 is not applicable to the strap which was inspected in accordance with paragraphs 2.3 or 2.4 of previous AD.</p>		

- TT strap with accumulated installation time more than 10 years, inspect within the next 6 weeks.
 - TT strap with accumulated installation time more than 11 years, inspect within the next 5 weeks.
 - TT strap with accumulated installation time more than 12 years, inspect within the next 4 weeks.
 - TT strap with accumulated installation time more than 13 years, inspect within the next 3 weeks.
 - TT strap with accumulated installation time more than 14 years, inspect within the next 2 weeks.
- 2.5 If a defect is found as a result of the inspection required in paragraph 2.4 (or paragraph 2.3 or 2.4 of the previous AD), 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 2.3.1, 25,000 flights, 15 years of installation time or September 30, 2001 whichever occurs first.
- 2.6 After accomplishing paragraph 2.1, 2.2, 2.3 or 2.5, remove a TT strap before accumulating more than 10 years or 25,000 flights after the installation of the strap, whichever occurs first.
- 2.7 A TT strap stored as a spare must be re-identified in accordance with SB, prior to installation into the main rotor head.
- 2.8 If a TT strap is removed before accumulating 10 years of installation time or 25,000 flights, it must be re-identified with new P/N in accordance with SB before re-installed on helicopters.
- 2.9 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 August 9, 2001.

3.2 Kawasaki Service Bulletin No.KSB-117-155B dated June 11, 2001 or JCAB-approved later revisions pertain to this subject.

3.3 This AD supersedes the AD No.TCD-5126-99.