

KOKU-KU-KI-1830

No. TCD-8385A-2015

Date of Issue: March 26, 2015

Japan Civil Aviation Bureau

TAIKUSEI-KAIZEN-TSUHO

Airworthiness Directive

The undermentioned examinations or modifications are mandatory.

1. Applies to: Kawasaki BK117 C-2 helicopters: serial numbers from 4001 through 4034 inclusive, if equipped with Automatic Flight Control System (AFCS)

2. Compliance is required as indicated, unless already accomplished.

To prevent loss of stability augmentation function by AFCS and subsequent stability deterioration of the helicopter due to a short circuit in "ACTIV" wire of Smart Electro-Mechanical Actuator (SEMA), accomplish the following.

2.1 Before next flight after May 12, 2014 (the effective date of TCD-8385-2014), insert a copy of the attachment of TCD-8385-2014 or this AD in front of the corresponding page of Flight Manual Supplement 10-19 "Automatic Flight Control System (AFCS)". Advise the content of revision mentioned above to flight crews.

2.2 Within 12 months or 300 flight hours, whichever occurs first after the effective date of this AD, change the AFCS wiring in accordance with the instructions of Kawasaki Service Bulletin No. KSB-117-385 dated March 25, 2015, or later JCAB-approved revision.

2.3 Concurrent with the action as required by paragraph 2.2 of this AD, remove the copy of the attachment of TCD-8385-2014 or this AD inserted as required by paragraph 2.1 of this AD from the Flight Manual.

2.4 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 April 9, 2015.

3.2 This AD supersedes the AD No. TCD-8385-2014 dated April 28, 2014.

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<p>3.3 Kawasaki Service Bulletin No. KSB-117-374A dated March 25, 2015, and No. KSB-117-385 dated March 25, 2015 and later JCAB approved revisions pertain to this subject.</p>		

This is the English translation. In case of any difficulty, refer to the Japanese original text.

The following information must insert to Flight Manual Supplement 19-10 “Automatic Flight Control System(AFCS)”:

**KAWASAKI BK117C-2  
FLIGHT MANUAL**

**SUPPLEMENT 10-19  
Automatic Flight Control System (AFCS)**

<b>SECTION 2 LIMITATIONS</b>
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**Airspeed limitations**

Airspeed limitations for hands-off operation

Situations	Visual Meteorological Conditions (VMC)	Instrumental Meteorological Conditions (IMC)
Maneuvering, Approach	120 KIAS	100 KIAS
Climb, Cruise, Descend	100 KIAS 120 KIAS(when flying attentive*)	80 KIAS 100 KIAS(when flying attentive*)

\* Definition of attentive: Ready to take the controls immediately when the aircraft departs the expected flight path.