

URGENT

TB 1-1 520-238-20-92

**DEPARTMENT OF THE ARMY TECHNICAL BULLETIN
AH-64, CAPTIVE BORESIGHT HARMONIZATION KIT
(CBHK), P/N 7-362300003-603**

Headquarters, Department of the Army, Washington, D.C.

21 AUGUST 1998

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NOTE

**THIS PUBLICATION IS EFFECTIVE UNTIL 30 SEPTEMBER 1998 UNLESS SOONER
RESCINDED OR SUPERSEDED.**

1. Priority Classification. URGENT.

- a. CBHKs, P/N 7-362300003-603 in use. The affected CBHKs shall be inspected as soon as practical but no later than the Task/Inspection suspense date.
- b. CBHKs, P/N 7-362300003-603 in Depot Maintenance. N/A.
- c. CBHKs, P/N 7-362300003-603 undergoing maintenance. Same as paragraph 1.a.
- d. CBHKs in transit. N/A.
- e. Maintenance Trainers. (Category A, and B). N/A.
- f. Component/Parts in Stock Including War Reserves at all Levels (depot and Others). N/A.

2. Task/Inspection Suspense Date. A one-time CBHK P/N 7-362300003-603 self-check on or before 30 September 1998. Recurring self-checks prior to each use of the CBHK will still be required per reference 13.a.

3. Reporting Compliance Suspense Date. 30 September 1998 per paragraph 14.a. of this Technical Bulletin.

4. Summary of Problem.

- a. Presently the Government is investigating an issue regarding the 7-362300003-603 Captive Boresight Harmonization Kit (CBHK) that could potentially affect the CBHK equipment accuracy. The self-check procedure required in this TB will provide confidence in the integrity of the CBHK

for the near term, and also serve to identify suspect units for further evaluation by technical personnel.

b. For manpower/downtime and funding impacts. One man-hour is required to perform the CBHK self check procedures.

c. The purpose of this Technical Bulletin is to require a one-time inspection of the 7-362300003-603 CBHK. This inspection will be performed in accordance with reference 13.a set-up/self-check procedures for the Trivial Measuring System (TMs) components.

5. End Items to be Inspected. N/A.

6. Assembly Components to be Inspected. 7-362300003-603 CBHK.

7. Parts to be Inspected. The TMs Transmitter, Receiver, and Control Display Unit (CUD).

8. Inspection Procedures. The components listed in paragraph 6 above shall be mounted on the TMs set-up fixture to perform the set-up procedures. Performance of the set-up procedures will determine if the TMs is acceptable for use. Once this is complete, the serial numbers of these components should be forwarded to the Pocus below. Additionally, if any of the components fail the set-up procedures, contact the Pocus below.

9. Correction Procedures. Replacement components are in limited stock, but can be expedited to the requiring units on a case by case basis.

10. Supply/Parts and Disposition. N/A.

11. Special Tools, Jigs and Fixtures Required. N/A.

12. Application.

a. Category of Maintenance. ALUM/VIM for CBHK check.

b. Estimated Cost Impact of Stock Fund Items to the Field. N/A.

c. TB/MOWS to be Applied Prior to or Concurrently with this Inspection. N/A.

d. Publications Which Require Change as a Result of This Technical Bulletin. N/A.

13. References.

a. TM 9-4935-476-13, Aviation Unit and Intermediate Maintenance Manual, for Captive Boresight Harmonization Kit (Used on Army AH-64A Helicopter), dated 15 December 1988.

14. Recording and Reporting Requirements.

a. Reporting Compliance Suspense Date (CBHK). Upon entering requirements of this Technical Bulletin on all subject CBHKs, forward a message, Datafax or E-Mail to one of the POCs in paragraph 16. The report will cite this Technical Bulletin number, date self-check completed information and serial numbers of the CBHKs checked. If the self-check is not successfully completed, the serial numbers of the TMS Transmitter, Receiver, and Control Display Unit (CDU) will be required.

- b. Task/inspection Reporting Suspense Date (Aircraft). N/A.
- c. Reporting Compliance Suspense Date (Spares). N/A.
- d. Task/Inspection Reporting Suspense Date (Spares). N/A.

15. Weight and Balance. N/A.

16. Points of Contact for this Technical Bulletin.

- a. Mr. Edward D. Daw, AMSAM-MMC-VS-AT, DSN 897-1422 or Commercial (256) 313-1422, Datafax number is DSN 313-1556 or Commercial (256) 313-1556, e.mail is dawed@exchange 1. redstone.army.mil.
- b. Mr. Neil Bruchman, SFAE-AV-AAH-S, DSN 897-4206 or Commercial (256) 313-4206, e.mail is bruchmann@peoavn. redstone.army.mil.

By Order of the Secretary of the Army:

DENNIS J. REIMER
General, United States Army
Chief of Staff

Official:



JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army
04854

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THE METRIC SYSTEM AND EQUIVALENTS

WEIGHT MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches
 1 Kilometer = 1000 Meters = 0.621 Miles

WEIGHTS

1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
 1 Kilogram = 1000 Grams = 2.2 lb.
 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches
 1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet
 1 Sq. Kilometer = 1,000,000 Sq. Meters = 0.386 Sq. Miles

CUBIC MEASURE

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches
 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

TEMPERATURE

$5/9(^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 212° Fahrenheit is equivalent to 100° Celsius
 90° Fahrenheit is equivalent to 32.2° Celsius
 32° Fahrenheit is equivalent to 0° Celsius
 $9/5^{\circ}\text{C} + 32 = ^{\circ}\text{F}$

APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
its	Liters	0.473
arts	Liters	0.946
allons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
ers	Gallons	0.264
ms	Ounces	0.035
ograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pounds-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
ometers per Liter	Miles per Gallon	2.354
ometers per Hour	Miles per Hour	0.621



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