

# URGENT

## DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

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### MANDATORY INSPECTION OF ROD END CLEVIS

#### FOR ALL UH-1H/V SERIES AIRCRAFT

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

18 June 1998

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#### NOTE

**THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED OR SUPERSEDED.**

**1. Priority Classification.** Urgent

#### NOTE

**See AR 95-1, paragraph 6-6.a., for noncompliance authority of major commanders.**

**a. Aircraft in Use.** Upon receipt of this TB, the condition status symbol of the cited aircraft will be changed to a **Red X** until the inspection is complete. Aircraft found to have a Clevis marked "**GT**", or not having a serial number, will remain on **Red X** until replaced with a serviceable Clevis. Aircraft found with a serviceable Clevis will be returned to service.

**b. Aircraft in Depot Maintenance.** Same as paragraph 1.a. Aircraft will not be issued until compliance with this TB has been completed.

**c. Aircraft Undergoing Maintenance.** Same as paragraph 1.a. Aircraft will not be issued until compliance with this TB has been completed.

**d. Aircraft in Transit.**

(1) **Surface/Air Shipment.** Same as paragraph 1.a.

(2) **Ferry Status.**

(a) Inspect at final destination.

(b) Those aircraft that have a DD 250 and are located at U.S. Helicopters, Ozark, Alabama will be inspected prior to ferry to final destination.

**e. Maintenance Trainers (Category A and B).** Same as paragraph 1.a.

\*This TB supersedes USAAMCOM Safety of Flight Message (SOF) UH-1-98-07 0214449Z JUN 98.

**f. Component/Parts in Stock at All Levels (Depot and Others) Including War Reserves.** Upon receipt of this TB, the materiel condition tags of all items in all condition codes listed in paragraph 7. shall be annotated to read "TB 1-1520-210-20-41 (UH-1-SOF-98-07), Mandatory Inspection of Rod-End Clevis, Not Complied With".

(1) **Wholesale Stock.** Upon receipt of this TB, all serviceable items (condition codes A, B, C, D and E) listed in paragraphs 6. and 7. and located in wholesale depot storage shall be placed in condition code J and tagged with a DD Form 1576/DD Form 1576-1 (Suspended Tag/Label-Materiel). Do not remove original condition tags.

(2) **Retail Stock.** Upon receipt of this TB, commanders and others maintaining retail stock at installation level and below shall contact the supported aviation unit to perform the inspection required by paragraph 8. and the correction procedures of paragraph 9. on the discrepant materiel. Disposition of discrepant materiel will be IAW paragraph 10.

**g. Components/Parts in Work (Depot Level and Others).** Items listed in paragraph 7. in work will not be issued until compliance with this TB is completed.

**2. Task/Inspection Suspense Date.** Prior to next flight.

**3. Reporting Compliance Suspense Date.** No later than 17 June 1998, IAW paragraph 14.a. of this TB.

**4. Summary of the Problem.**

a. Two problems have been identified on the UH-1 Rod End Clevis (P/N 204-011-136-103):

(1) The Rod End Clevis (P/N 204-011-136-103 or P/N 1615UH1-100-1) is a flight safety part which has been undergoing fatigue testing to ensure that all vendors parts meet the strength requirements of the originally-qualified design. Evaluation of test data has shown that parts manufactured by GT Machine (CAGE Code 4T854) do not meet the strength requirements and shall be removed from service.

(2) A quantity of Rod End Clevises have been found without serial numbers to identify the manufacturer for traceability purposes. These parts represent an unknown risk and shall be immediately removed from service.

**b. For Manpower/Downtime and Funding Impacts, See Paragraph 12.**

**c. The Purpose of this TB is** to require a one-time inspection of all Rod End Clevises (P/N 204-011-136-103 or P/N 1615UH1-100-1).

**5. End Items to be Inspected.** All UH-1H/V series aircraft.

**6. Assembly Components to be inspected.** N/A.

**7. Parts to be Inspected.**

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Clevis, Rod End	204-011-136-103	5340-01-184-1317

**8. Inspection Procedures.**

**NOTE**

**It may be necessary to remove paint in order to read the vibro-etched serial number. Recoat/retreat bare steel surface as necessary.**

a. Gain access to the Clevis, Rod End (reference TM 55-1520-210-23P, Figure 131, Item 21). Identify the vibro-etched serial number located on the flat machined area between the Clevis forks and the transition radius leading to the threaded shank.

**NOTE**

Although TM 55-1520-210-23P shows the Clevis part number to be 204-011-136-103, these parts may exhibit a part number of 1615UH1-100-1. If found, 1615UH1-100-1 is an alternative part number for 204-011-136-103, and shall also be inspected IAW this TB.

b. If the serial number prefix is "GT" or if the part does not contain a serial number in this area, proceed to the corrective procedures in paragraph 9.

**NOTE**

If a serial number is present but the prefix is not readable, parts manufactured by GT Machine can also be identified by CAGE Code 4T854 in the same area as the serial number.

c. If the serial number is found and the prefix is other than "GT", the inspection is complete.

**9. Correction Procedure.** For Rod End Clevises with serial numbers having the prefix "GT" (or CAGE Code 4T854), or Clevises which do not have a serial number, replace with a serviceable Clevis from supply. Dispose of discrepant Clevises IAW paragraph 10.d.

**10. Supply/Parts and Disposition.**

a. **Parts Required.** Items cited in paragraph 7 will be required to replace defective items.

b. **Requisitioning Instructions.** Requisition replacement part using normal supply procedures. All requisitions shall use project code (CC 57-59) XEA.

**NOTE**

Project code XEA is required to track and establish a database of stockfund expenditures incurred by the field as a result of SOF/TB actions.

c. **Bulk and Consumable Materials.** N/A.

d. **Disposition.** Demilitarize/mutilate IAW TM 1-1500-328-23 any part/component which does not meet inspection criteria.

e. **Disposition of Hazardous Material.** N/A

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

**12. Application.**

a. **Category of Maintenance.** AVUM. Aircraft downtime will be charged to AVUM.

b. **Estimated Time Required.**

(1) Total of 1 man-hour using 1 persons.

(2) Total of 1 hour downtime for one end item.

c. **Estimated Cost Impact of Stock Fund Items to the Field.**

<b>Nomenclature</b>	<b>Part Number/NSN</b>	<b>Quantity</b>	<b>Cost Each</b>
Clevis, Rod End	P/N 204-011-136-103 NSN 5340-01-184-1317	2	\$67.00

d. **TB/MWOs to be Applied prior to or concurrently with this Inspection.** N/A

e. **Publications which Require Change as a Result of this Inspection.** N/A.

### 13. References.

a. TM 55-1520-210-23P.

b. TM 1-1500-328-23.

### 14. Recording and Reporting Requirements.

a. **Reporting Compliance Suspense Date (Aircraft).** Upon entering requirements of this TB on DA Form 2408-13-1 for all subject mission design series (MDS) aircraft, forward a priority message, datafax or E-mail to CDR, AMCOM, ATTN: AMSAM-SF-A (SOF Compliance Officer), IAW AR 95-1. Datafax number is DSN 897-2111 or commercial (256) 313-2111. E-Mail address is <safeadm@redstone.army.mil>. The report will cite this TB number, date of entry on DA Form 2408-13-1, the aircraft MDS, and serial numbers of aircraft in numerical order.

b. **Task/Inspection Reporting Suspense Date (Aircraft).** N/A

c. **Reporting TB Receipt (Spares).**

(1) **Materiel in wholesale depot storage.** N/A.

(2) **Materiel in retail storage.** N/A.

d. **Task/Inspection Reporting Suspense Date (Spares).**

(1) **Materiel in wholesale depot storage.** N/A.

(2) **Materiel in retail storage.** N/A.

e. **The following forms are applicable and are to be completed in accordance with DA PAM 738-751, 15 June 1992:**

#### NOTE

**For Unit Level Logistics System-Aviation (ULLS-A) users, use applicable electronic “-E” forms.**

(1) DA Form 2408-13, Aircraft Status Information Record.

(2) DA Form 2408-13-1, Aircraft Inspection and Maintenance Record.

(3) DA Form 2408-15, Historical Record for Aircraft

(4) DD Form 1574/DD Form 1574-1, Serviceable Tag/Label-Materiel (Color Yellow). Annotate the Remarks block with “Inspected Serviceable IAW TB 1-1520-210-20-41 (UH-1-98-SOF-07)”.

(5) DD Form 1575/DD Form 1575-1, Suspended Tag/Label-Materiel (Color Brown). Annotate the Remarks block with “Suspended IAW TB 1-1520-210-20-41 (UH-1-98-07)”.

(6) DD Form 1577/DD Form 1577-1, Unserviceable (Condemned) Tag/Label-Materiel (Color Red). Annotate the Remarks block with “Condemned IAW TB 1-1520-210-20-41 (UH-1-98-SOF-07) and Mutilated per TM 1-1500-328-23”.

15. **Weight and Balance.** N/A.

**16. Points of Contact.**

**a.** Technical point of contact for this TB is Mr. Steve Monaco, AMSAM-AR-E-I-B-U, DSN 654-0078 or (256) 955-0078. Datafax is DSN 645-6590. E-mail is <monaco@redstone.army.mil>.

**b.** Logistical point of contact for this TB is Mr. Charles Elkins, AMSAM-DSA-UH-U, DSN 645-0073 or commercial (256) 955-0073. Datafax is DSN 645-6590 or (256) 955-0073. E-mail is <elkins-ce@redstone.army.mil>.

**c.** Wholesale material point of contact is (spares) is Ms. Donna reeves, AMSAM-MMC-VS-N, DSN 897-1061 or (256) 313-1061. Datafax is DSN 897-1558. E-mail is <reeves-dm@redstone.army.mil>.

**d.** Forms and records point of contact for this TB is Ms. Ann Waldeck, AMSAM-MMC-RE-F, DSN 746-5564 or commercial (256) 876-5564. Datafax is DSN 746-4904 or (256) 876-4904. E-mail is <waldeck-ab@redstone.army.mil>.

**e.** Safety point of contact for this TB is Mr. Robert Brock, AMSAM-SF-A, DSN 788-8632 or commercial (256) 842-8632. Datafax is DSN 897-2111 or (256) 313-2111. E-mail is <brock-rd @redstone.army.mil>.

**f.** Foreign Military Sales (FMS) recipients requiring clarification of action advised by this TB should contact either CW5 Joseph L Wittstrom, Security Assistance Management AMSAM-SA, DSN 897-0681 or commercial (256) 313-0681; E-mail is <wittstrom-jl@redstone.army.mil> or Mr. Ronnie W. Sammons, AMSAM-SA-CS-NF, DSN 897-0869 or (256) 313-0869; datafax is DSN 897-0411 or (256) 313-0411; E-mail is <sammons-rw@restone.army.mil>.

**g.** After hours contact AMCOM Command Operations Center (COC) DSN 897-2066/2067 or commercial (256) 313-2066/2067. Huntsville, Alabama is GMT minus 6 hrs.

**17. Reporting of Errors and Recommending Improvements.** You can help improve this TB. If you find any mistakes or if you know of a way to improve these procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Charges to Publications and Blank Forms) directly to: Commander, US Army Aviation and Missile Command, ATTN: AMSAM-MMC-LS-LP, Redstone Arsenal, Alabama 35898-5230. A reply will be furnished to you. You may also send in your comments electronically to our E-mail address at <ls-lp@redstone.army.mil> or by datafax at DSN 788-6546 or commercial (256) 842-6546. Instructions for sending a DA Form 2028 by E-mail may be found at the back of most TMs.

By Order of the Secretary of the Army:

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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



