

URGENT

TB 1-1520-238-20-121

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

INSPECTION OF CPG CANOPY DETONATING CORD FOR ALL AH-64 SERIES AIRCRAFT

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

23 October 2001

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

NOTE

THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED OR SUPERSEDED.

1. Priority Classification. Urgent

a. Aircraft in Use. Upon receipt of this Technical Bulletin (TB) make the following entries on DA Form 2408-13-1.

(1) Enter a red horizontal dash "-" status symbol with the following statement: "Inspect CPG canopy detonating cord IAW with TB 1-1520-238-20-121" before or during next phase, but no later than (NLT) 31 October 2003. The affected aircraft shall be inspected as soon as practical but NLT 31 October 2003. Commanders who are unable to comply with the requirements of this TB 1-1520-238-20-121 within the time frame specified will upgrade the affected status symbol to a red "X".

(2) Enter a circled red "X" status symbol with the following statement: "Flight restricted to PI/CPG with immediate access to survival or breakout knife IAW TB 1-1520-238-20-121.

b. Aircraft in Maintenance. Same at paragraph 1a.

c. Aircraft in Transit. Same at paragraph 1a.

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

e. Component/Parts in Stock at All Levels (Depot and Others) Including War Reserves-- Upon receipt of this TB 1-1520-238-20-121, the materiel condition tags of all items in all condition codes listed in paragraph 6 and 7 shall be annotated to read (TB 1-1520-238-20-121), "Inspection of canopy detonating cord not complied with".

(1) Wholesale Stock - Stock at Rock Island Arsenal has been inspected and no suspect parts are available for issue.

(2) Retail Stock - Report receipt of TB 1-1520-238-20-121 IAW paragraph 14c(1) NLT 25 October 2001. Upon receipt of TB 1-1520-238-20-121 Commanders and others maintaining retail stock at

This TB supersedes USAAMCOM Aviation Safety Action Message 171615Z Oct 01 AH-64 -02-ASAM-01.

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installation level and below shall contact the supported aviation unit to perform the inspection required by paragraphs 8 and 9 on suspect materiel. Disposition of discrepant materiel will be IAW paragraph 10. Report compliance with this TB 1-1520-238-20-121 IAW paragraph 14c(2) NLT 29 October 2001 .

f. Component/Parts in work (Depot level and Others). N/A.

2. Task/Inspection Suspense Date. Complete the inspection IAW paragraph 8 before or during next phase, but NLT 31 October 2003 .

3. TAMMS Reporting Compliance Suspense Date. No later than 29 October 2001 per paragraph 14.a of this TB 1-1520-238-20-121.

4. Summary of the Problem.

a. During the performance of maintenance there have been two incidents of canopy detonating cords, NSN 1377-01-170-5260, not firing when inadvertently initiated. These cords have the potential of being installed with a kink, which will prevent the cord from firing properly. This failure will prevent the CPG canopy jettison system from operating.

b. For manpower/downtime and funding impacts- see paragraph 12.

c. The purpose of this TB 1-1520-238-20-121 is to:

(1) Require inspection of all AH-64 series aircraft to determined the part number of the CPG detonating cord installed.

(2) Require replacement of suspect CPG canopy cord NLT 31 Oct 2004.

(3) Provide supplemental egress procedures if suspect canopy detonating cord is installed.

(4) Provide technical manual changes relating to the canopy detonating system.

(5) Allow flight beyond scheduled retirement life of the detonating cord (NSN 1377-01-186-9901 and 1377-01-170-5260) until 31 October 2004.

5. End Items to be Inspected. All Army AH-64 series aircraft.

6. Assembly Components to be Inspected.

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Canopy Severance Device Installation	7-311112058	N/A

7. Parts to be Inspected.

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Cord Detonating	6260906-5	1377-01-170-5260
Cord Detonating	7-311112017-43	1377-01-170-5260
Cord Detonating	51135-5	1377-01-170-5260
Cord Detonating	1377-MS89	1377-01-170-5260
Cord Detonating	1377-MS92	1377-01-186-9901
Cord Detonating	51135-7	1377-01-186-9901
Cord Detonating	6260906-7	1377-01-186-9901
Cord Detonating	7-311112017-35	1377-01-186-9901

8. Inspection Procedures. Before or during next Phase Inspection but NLT 31 October 2003, inspect the CPG canopy detonating cord to determine if a suspect detonating cord is installed. The following canopy detonating cords are considered suspect IAW this TB 1-1520-238-20-121: NSN 1377-01-170-5260 (Part numbers 1377-MS89, 51135-5, 6260906-5, 7-311112017-43).

NOTE

Due to limited supply of replacement parts, this TB 1-1520-238-20-121 will serve as authority to operate with Canopy Removal System (CRS) beyond the established retirement life for canopy detonating cord NSN 1377-01-170-5260 (Part numbers 1377-MS89, 51135-5, 6260906-5, 7-311112017-43) and NSN 1377-01-186-9901 (Part numbers 1377-MS92, 51135-7, 6260906-7, 7-311112017-35). This authority is allowed, provided each crew member has immediate access to a survival knife (P/N SAEAS8662, NSN 7340-00-098-4327) or breakout knife (P/N 61D4383, NSN 1680-00-083-7011). This authority expires 31 Oct 2004 unless rescinded sooner.

9. Correction Procedures.

NOTE

The replacement canopy detonating cord, NSN 1377-01-186-9901, is currently used in the Pilot station and will now also be used in CPG station.

- a. If suspect canopy detonating cord is not installed, the red horizontal dash "--" and the circle red "X" entries from paragraph 1.a. will be cleared. Proceed to paragraph 9C.
- b. If suspect canopy detonating cord is installed-
 - (1) Enter a red diagonal " / " on the DA Form 2408-13-1 with the following statement: "Canopy detonating cord requires replacement IAW this TB 1-1520-238-20-121 NLT 31 Oct 2004."
 - (2) The red horizontal "--" entry from para 1.a. will be cleared.
 - (3) When replacement cord is available, remove detonating cord NSN 1377-01-170-5260, IAW TM 1-1520-238-23 paragraph 12.77 for the AH-64A or for the AH-64D the IETM, Cord Detonating, Forward Tee to Elbow, Copilot/Gunner (CPG), Removal and Install.
 - (4) Install replacement cord NSN 1377-01-186-9901 IAW TM 1-1520-238-23 paragraph 12.77 for the AH-64A or for the AH-64D the IETM, Cord Detonating, Forward Tee to Elbow, Copilot/Gunner (CPG), Removal and Install.
- c. Place a copy of this TB 1-1520-238-20-121 in aircrew information reading files. This is to ensure crews are aware of the potential, that a suspect component may be installed. The message may be removed from the reading files once all aircraft in that unit no longer contain suspect CPG detonating cords.
- d. Add the following Caution to TM 1-1520-238-23, paragraph 12.77 and to the IETM under Airframe Structure, CPG, and Pilot, severance devices.



Ensure the detonating cord is not kinked. A kink in the cord may prevent the cord from firing . If a cord has been kinked it is no longer serviceable.

- e. TM 1-1520-238-23P-3 for the AH-64A and the IETM for the AH-64D will be changed reflecting the change from the NSN 1377-01-170-5260 cord to the NSN 1377-01-186-9901 cord. Refer to the TM 1-1520-238-23P-3, Figure 711, item 9 or the IETM, Cord Detonating, Forward Tee to Elbow, Copilot/Gunner (CPG), Removal and Install, for the location of the detonating cord.

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10. Supply/Parts and Disposition.

a. Parts Required.

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Cord Detonating	51135-7	1377-01-186-9901
Cord Detonating	7-311112017-35	1377-01-186-9901

b. Requisitioning Instructions. Requisition replacement parts through normal supply channels using normal supply procedures. All requisitions shall use project code (CC 57-59) "X15" (X-Ray one five).

NOTE

Project code "X15" is required to track and establish a data base of stock fund expenditures incurred by the field as a result of TB actions.

c. Bulk and Consumable Materials. N/A.

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Wire Non Electrical 1 lb. 0.032 in. Nickel	MS20995NC32	9525-00-255-6072
O-Ring	M83248/2-903	5331-01-011-4057

d. Disposition. Dispose of removed parts/components IAW TM 1-1520-238-23, page 1-417, paragraph 1.139h or the IETM, AH-64D General Information, Appendices, Cartridge and Propellant Actuated Devices.

e. Disposition of Hazardous Material. IAW Environmental Protection Agency Directives as implemented by your servicing environmental coordinator (AR 200-1).

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) Time to complete inspection. Total of 3.0 man-hours using 1 person.

(2) Time to replace detonating cord.

(a) Total of 10.0 man-hours using 2 people.

(b) Total of 5.0 hours downtime for one end item.

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

NOMENCLATURE	PART NUMBER/ NATIONAL STOCK NUMBER	QUANTITY	COST EACH	TOTAL \$
Cord, Detonating	1377-01-186-9901	1	\$379.00	\$379.00
Maximum total cost per aircraft = \$379.00				

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. A copy of this TB 1-1520-238-20-121 shall be inserted in the appropriate TM as authority to implement the change until the printed change is received.

(1) Interactive Electronic Technical Manual (IETM): TM 1-1520-Longbow/Apache IETM, CD No. 1, Version 3.1.2, Dated 19 Nov. 98, CD Date 1 Dec 98 or subsequent.

(2) TM 1-1520-238-23, Aviation Unit and Intermediate Maintenance Manual for AH-64A Apache Attack Helicopter, 16 May 94.

(3) TM 1-1520-238-23P-3, Aviation Unit and Intermediate Maintenance Repair Parts and Special Tools List for AH-64A Apache Attack Helicopter, 28 May 96.

13. References.

a. Interactive Electronic Technical Manual (IETM): TM 1-1520-Longbow/Apache IETM, CD No. 1, Version 3.1.2, Dated 19 Nov. 98, CD Date 1 Dec 98 or subsequent.

b. TM 1-1520-238-23, Aviation Unit and Intermediate Maintenance Manual for AH-64A Apache Attack Helicopter, 16 May 94.

c. TM 1-1520-238-23P-3, Aviation Unit and Intermediate Maintenance Repair Parts and Special Tools List for AH-64A Apache Attack Helicopter, 28 May 96.

d. DA PAM 738-751, 15 Mar 99.

14. Recording and Reporting Requirements.

a. Aircraft-

(1) TAMMS reporting compliance suspense- Upon entering requirements of this TB 1-1520-238-20-121 on DA Form 2408-13-1 on all subject MDS aircraft, forward a priority message, Datafax or E-Mail to Commander, AMCOM, ATTN: AMSAM-SF-A (SOF Compliance Officer), Redstone Arsenal, AI 35898-5000 IAW AR 95-1 NLT date specified in paragraph 3. Datafax number is DSN 897-2111 or commercial (256) 313-2111. E-Mail address is "SAFEADMS@REDSTONE.ARMY.MIL". The report will cite this TB 1-1520-238-20-121 number, date of entry in DA Form 2408-13-1, the aircraft mission design series and serial numbers of aircraft in numerical order.

(2) Task/Inspection reporting suspense date (aircraft)- N/A.

b. Wholesale Spare Parts/Assemblies- N/A

c. Materiel in Retail Storage-

(1) Report receipt of this TB- Commanders and Facility Managers will report receipt of this TB 1-1520-238-20-121 by E-mail or Datafax to the Logistical Point of Contact (POC) listed in paragraph 16b NLT date specified in paragraph 1.e.(2). Provide local POC.

(2) Task/Inspection reporting suspense date- Commanders and Facility managers will report inspection results to the Logistical Point of Contact in paragraph 16.b. NLT date specified in paragraph 1.e.(2). Report the quantity inspected by condition code and the resulting condition code. Report by E-Mail or Datafax and provide local POC.

d. The following forms are applicable and are to be completed in accordance with DA PAM 738-751, 15 Mar 99:

NOTE

ULLS-A users will use applicable "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-Material (Color Yellow). Annotate remarks block with "Inspected Serviceable IAW this TB 1-1520-238-20-121."

(5) DD Form 1577/DD Form 1577-1, Unserviceable (Condemned) Tag/Label- Material (Color Red). Annotate remarks block with "Condemned IAW this TB 1-1520-238-20-121 and mutilated IAW TM 1-1520-328-23."

15. Weight and Balance. N/A.

16. Points of Contact.

a. Technical point of contact for this TB is Mr. Andy Fabery, AMSAM-RD-AE-I-P-A, DSN 897-4802 or commercial (256) 313-4802. Datafax is DSN 897-4923 or (256) 313-4923 E-mail is andrew.fabery@redstone.army.mil .

b. Logistical point of contact for this TB is Mr. Steve Hayes, SFAE-AV-AAH-LF, DSN 897-4245 or commercial (256) 313-4245. Datafax is DSN 897-4343 or (256) 313-4343 E-mail is steve.hayes@peoavn.redstone.army.mil.

c. Forms and records point of contact for this TB is Ms. Ann Waldeck, AMSAM-MMC-MA-NM, DSN 746-5564 or commercial (256) 876-5564, Datafax is DSN 746-4904 or commercial (256) 876-4904, E-mail is ann.waldeck@redstone.army .mil.

d. Safety point of contact for this TB is:

(1) Primary- Mr. Randall Rushing, AMSAM-SF-A, DSN 897-2092 or commercial (256) 313-2092, Datafax is DSN 897-2111 or commercial (256) 313-2111, E-mail is randall.rushing@redstone.army.mil.

(2) Alternate- Mr. Howard Chilton. AMSAM-SF-A, DSN 897-2068 or commercial (256) 313-2068, Datafax is DSN 897-2111 or commercial (256) 313-2111, E-mail is howard.chilton@redstone.army.mil.

e. Foreign Military Sales (FMS) recipients requiring clarification of actions advised by this TB should contact one of the following (Huntsville, AL, time is GMT minus 6 hours):

(1) Primary- Mr. Ronnie W. Sammons, AMSAM-SA-CS-NF, DSN 897-6856 or commercial (256) 313-6856, Datafax is DSN 897-6630 or commercial (256) 313-6630, E-mail is ronnie.sammons@redstone.army.mil.

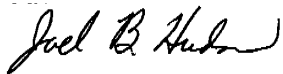
(2) Alternate- Mr. Paul Tarr, AMSAM-SA-CS-NF, DSN 897-6861 or commercial (256) 313-6861, Datafax is DSN 897-6630 or commercial (256) 313-6630, E-mail is paul.tarr@redstone.army.mil.

f. After hours contact AMCOM Command Operations Center (COC) DSN 897-2066/7 or commercial (256) 313-2066/7.

17. Reporting of Errors and Recommending Improvements. You can 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 Changes to Publications and Blank Forms) directly to: Commander, US Army Aviation and Missile Command, ATTN.: AMSAM-MMC-MA-NP, Redstone Arsenal, AL 35898-5230. You may also submit your recommended changes by E-mail directly to 2028@redstone.army.mil. Instructions for sending an electronic 2028 may be found at the back of this manual. A reply will be furnished directly to you.

By Order of the Secretary of the Army:

Official:



JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army
0129601

ERIC K. SHINSEKI
General, United States Army
Chief of Staff

DISTRIBUTION:

To be distributed in accordance with Initial Distribution Number (IDN) 314004, requirements for TB 1-1520-238-20-121.

The following format must be used if submitting an electronic 2028. The subject line must be exactly the same and all fields must be included; however only the following fields are mandatory: 1, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 16, 17, and 27.

From: "Whomever" <whomever@avma27.army.mil>

To: <mpmt%avma28@st-louis-emh7.army.mil>

Subject: DA Form 2028

1. **From:** Joe Smith
2. **Unit:** home
3. **Address:** 4300 Park
4. **City:** Hometown
5. **St:** MO
6. **Zip:** 77777
7. **Date Sent:** 19-OCT-93
8. **Pub no:** 55-2840-229-23
9. **Pub Title:** TM
10. **Publication Date:** 04-JUL-85
11. **Change Number:** 7
12. **Submitter Rank:** MSG
13. **Submitter FName:** Joe
14. **Submitter MName:** T
15. **Submitter LName:** Smith
16. **Submitter Phone:** 123-123-1234
17. **Problem:** 1
18. **Page:** 2
19. **Paragraph:** 3
20. **Line:** 4
21. **NSN:** 5
22. **Reference:** 6
23. **Figure:** 7
24. **Table:** 8
25. **Item:** 9
26. **Total:** 123
27. **Text:**

This is the text for the problem below line 27.

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



THEN...JOT DOWN THE
DOPE ABOUT IT ON THIS FORM.
CAREFULLY TEAR IT OUT, FOLD IT
AND DROP IT IN THE MAIL.

SOMETHING WRONG WITH PUBLICATION

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER

PUBLICATION DATE

PUBLICATION TITLE

BE EXACT PIN-POINT WHERE IT IS

PAGE
NO.

PARA-
GRAPH

FIGURE
NO.

TABLE
NO.

IN THIS SPACE, TELL WHAT IS WRONG
AND WHAT SHOULD BE DONE ABOUT IT.

TEAR ALONG PERFORATED LINE

PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER

SIGN HERE

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

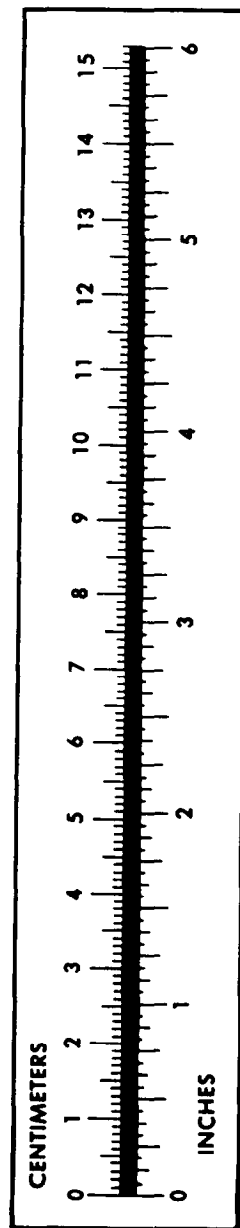
TEMPERATURE

$5/9(^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 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



PIN: 079372-000