

ROUTINE

MWO effective date is 15 May 1995 and completion date 18 August 1996

MODIFICATION WORK ORDER

MODIFICATION OF THE RELEASE, CARGO, PARACHUTE, M-1
NATIONAL STOCK NUMBER (NSN) 1670-01-097-8816

HEADQUARTERS, DEPARTMENT OF THE ARMY
WASHINGTON, D.C.
15 MAY 1995

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. 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), or DA Form 2028-2 located in the back of this manual directly to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St Louis, MO 63120-1798.

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

1. **PURPOSE.** The purpose of this modification is to upgrade the retainer damp and toggle lock slide of the M-1 Cargo Parachute Release.

2. **PRIORITY.** This modification is classified "ROUTINE".

a. **Equipment In Use:** Equipment in use will be modified and completed no later than the scheduled completion date. Equipment not modified after the expiration of the Modification Work Order (MWO) completion date will be reported as Not Mission Capable (NMC), in accordance with applicable Army regulations.

b. **Equipment In Wholesale Depot Supply or Maintenance Activities** The MWO will be accomplished on serviceable material prior to issue and/or subsequent to the scheduled completion date. Issue of material not modified is prohibited. The MWO will be applied to unserviceable material during scheduled Depot Maintenance.

3. **END ITEM OR SYSTEM TO BE MODIFIED.** The following end items shall be modified in accordance with the instructions contained in Paragraph 10.

Nomenclature	NSN	Serial Number
Release, Cargo, Parachute, M-1	1670-01-097-8816	Not Applicable

4. **MODULES** (Components, Assemblies, Subassemblies, Boards, and Cards) TO BE MODIFIED. Not applicable.

5. **PARTS TO BE MODIFIED.** Not applicable

6. **APPLICATION.**

a. **Time Compliance Schedule:** The MWO time compliance period begins on 15 May 1995. The completion date is 18 August 1996.

b. Level of Maintenance: Unit Maintenance.

c. **Applied By:** Unit Maintenance.

d. **Time Required:** (Time for completion of MWO application to one end item.)

WORK FORCE/SKILLS	MAN-HOURS
1 Parachute Rigger (MOS 43E)	0.5

e. **MWO to be applied to or concurrently with this MWO:** None.

7. TECHNICAL PUBLICATIONS. Affected technical publication, TM 10-1670-296-20&P, as a result of this MWO will be incorporated prior to or in conjunction the printing of the manual mention above per Interim Operating Instructions for US Army Material Change Management (replaces AR750-10), paragraph 10.

8. SUPPLY KITS/PARTS AND DISPOSITION.

a. Kit(s)/Parts needed to apply this MWO. Modification kit, M-1 Cargo Parachute Release, NSN 1670-01-332-7680, Part Number (PN) 11-1-3908, CAGEC 81337.

NOMENCLATURE	CAGEC	PART NUMBER	QUANTITY
Slide, Toggle Lock	81337	11-1-567	2
Retaining Clamp Assembly	81337	11-1512	1

b. Bulk and Consumables: Webbing, Cotton, 1/4-inch wide, 80 lbs.

c. Parts Disposition: Items removed during installation of the MWO kit will be disposed of in accordance with local procedures.

9. SPECIAL TOOLS, JIGS, TEST, MEASURE AND DIAGNOSTIC EQUIPMENT (TMDE), AND FIXTURES REQUIRED. None required.

- a. Place release on table or other suitable fiat surface with slide plate containing arming wire guide block facing up.
- b. If arming wire is installed, pull wire dear of guide block and allow delay release timer to run down.
- c. Using a 1 -inch wrench, remove two 5/8-inch nuts from clevis bolts and 3/4-inch wrench to remove nut from lower bolt securing front side plate to release and lift face side plate from release.
- d. Remove exposed toggle, toggle lockslide, and delay release timer from release body.
- e. Remove toggle shaft and upper suspension link with retaining damp from release.
- f. Remove retaining damp from within upper suspension link by sliding damp down and out through opening of link
- g. Remove remaining toggle and toggle lockslide from release back slide plate.
- h. Place the two each toggle lockslides, which were removed from release, in a suitable place away from work area.
- i. Install one each toggle lockslide in recess on back side plate. From disassembled release, replace one of the toggles in the recess on the back side plat.
- j. Install toggle shaft.
- k. Install retaining damp into upper suspension kit. Place upper suspension link assembly on toggle shaft. Ensure retaining damp pin is seated into back side plate slot.
- l. From the disassembled release, replace delay timer on toggle lockslide pin and recess on backside plate.
- m. Install remaining toggle lockslide with delay timer.
- n. From the disassembled release, replace remaining toggle.
- o. Replace front side plate by placing it onto clevis bolts and lowering stud. Ensure delay timer, toggle lockslide, toggle, and retaining damp pin aline with recesses in front side plate.
- p. Install 5/8-inch nuts on the clevis bolts. Tighten with 1-inch wrench.
- q. Perform functional test in accordance with TM 10-1670-296-20&P 10. MODIFICATION PROCEDURES. Refer to the SOW, TDP, and the manufacturer's approved blueprints, specifications, processes, and procedures.

10. MODIFICATION PROCEDURES. Refer to the SOW, TDP, and the manufacturer's approved blueprints, specifications, processes, and procedures.

11. CALIBRATION REQUIRED. None required.

12. WEIGHT AND BALANCE DATA. Weight and balance are not significantly affected.

13. QUALITY ASSURANCE REQUIREMENTS. Inspection of the completed MWO application for full compliance with the technical requirements of the instructions and will be accomplished by qualified personnel.

14. RECORDING AND REPORTING OF THE MODIFICATION RECORDS AND REPORT FORMS.

Completion of DA Form 2407/5504 will be in accordance with DA PAM 738-750. The serial to be reported in Block 2 must be the same range stated in Paragraph 3 of this MWO. The NSN for End Items to be reported in Block 6 must be the same as the NSN shown in paragraph 3. The NSN of the item actually modified will be entered in Block 20h. This NSN must match the NSN shown in Block 6. The Unit Identification Code to be reported in Block 1a must be the six character code that is put on the Unit/Organization shown in Block 1 a.

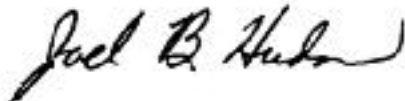
(Normally, this will be the code that is put on the Unit/Organization Morning/Report.) If more space is needed, use DA Form 2407. After completing the form, mail the National Maintenance Point (Copy 2) to: Commander, U.S. Army Aviation and Troop Command, ATTN: AMSAT-I-MAM, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. Forward the Organizational Copy (Copy 4) as directed by the local commander.

15. MATERIAL CHANGE (MC) NUMBER. THIS MWO IS AUTHORIZED BY MC NUMBER 1-91-08-3505.

16. MODIFICATION IDENTIFICATION. Each modified release will be marked by stamping or etching the new PN 11-1-1487-2 on the front plate. The -1 will be obliterated and the -2 placed to the right of where the -1 had previously been.

By Order of the Secretary of the Army:

Official:



*Acting Administrative Assistant to the
Secretary of the Army*

00455

GORDON R. SULLIVAN
*General, United States Army
Chief of Staff*

DISTRIBUTION:

To be distributed in accordance with DA Form 12-25-E, block no. 6284, requirements for MWO 10-1670-296-20-1

*U.S. GOVERNMENT PRINTING OFFICE:1995-655-121/20251

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block; margin-left: 20px;"> <p style="margin: 0;"><i>THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.</i></p> </div>		SOMETHING WRONG WITH PUBLICATION	
		FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)	
PUBLICATION NUMBER		DATE SENT	
PUBLICATION DATE		PUBLICATION TITLE	
BE EXACT PIN-POINT WHERE IT IS			
PAGE NO.	PARA- GRAPH	FIGURE NO.	TABLE NO.
<div style="border: 1px solid black; height: 400px; margin-top: 10px;"> <p style="text-align: center; font-weight: bold; margin-top: 10px;">IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT.</p> </div>			
PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER			SIGN HERE

The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
 1 decimeter = 10 centimeters = 3.94 inches
 1 meter = 10 decimeters = 39.37 inches
 1 dekameter = 10 meters = 32.8 feet
 1 hectometer = 10 dekameters = 328.08 feet
 1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
 1 decigram = 10 centigrams = 1.54 grains
 1 gram = 10 decigrams = .035 ounce
 1 dekagram = 10 grams = .35 ounce
 1 hectogram = 10 dekagrams = 3.52 ounces
 1 kilogram = 10 hectograms = 2.2 pounds
 1 quintal = 100 kilograms = 220.46 pounds
 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
 1 deciliter = 10 centiliters = 3.38 fl. ounces
 1 liter = 10 deciliters = 33.81 fl. ounces
 1 dekaliter = 10 liters = 2.64 gallons
 1 hectoliter = 10 dekaliters = 26.42 gallons
 1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

To change	To	Multiply by	To change	To	Multiply by
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

Temperature (Exact)

°F Fahrenheit temperature 5/9 (after subtracting 32) Celsius temperature °C

PIN: 073994-000