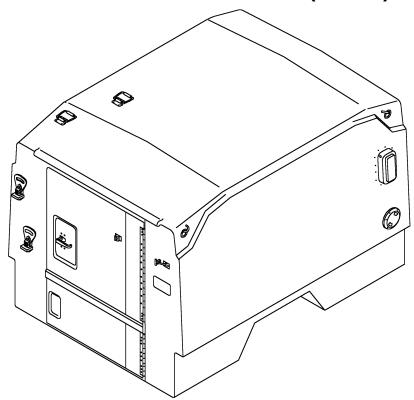
TECHNICAL MANUAL

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE
MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)
FOR

CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II

NSN 5411-01-467-3185 (CAMOUFLAGE) NSN 5411-01-479-1925 (SAND)



<u>DISTRIBUTION STATEMENT A</u> - Approved for public release; Distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY

1 August 2001

WARNING SUMMARY

The following warnings are recommended precautions that must be understood and applied during operation and maintenance of the CBC covered in this manual. Should situations arise that are not covered in these warnings, the commanding officer or other authority shall issue orders necessary to cover the situation.

WARNING

Safety shoes, gloves and protective eyewear are required to protect personnel when lifting and installing the CBC.

WARNING

Use only approved lifting devices when installing and removing the CBC. The lifting device (1 ton or more) should be within the annual inspection period and the CBC weight should be within the lifting device weight capacity.

WARNING

Personnel should not stand under the CBC, on top of the CBC, inside the CBC, or on the vehicle while it is being hoisted.

WARNING

The CBC is not a shelter system and is not to be transported with personnel or sentry dogs inside. Personnel can only work inside the CBC when the unit is deployed and the ventilators and doors are open.

WARNING

Do not remain inside the CBC with door closed. There is a suffocation hazard. A person inside the CBC can exit quickly (even with the external latch padlocked) by operating the inside handle to open the door.

WARNING

Safe loading of the CBC requires two personnel. Stay clear of the unit while lifting, as serious injury can result if unit swings or drops and hits personnel.

WARNING

All chemical materials used in this process are flammable and toxic. Use only in well ventilated areas. Avoid prolonged or repeated breathing of vapors or contact with skin. Make repairs to fiberglass parts in a well ventilated area. Always wear breathing mask, gloves and eye protection.

WARNING

Some environments, including desert and high temperature areas, could cause the interior of the CBC to reach high temperatures, causing injury or death to personnel.

WARNING

The use of power sanders and grinders is prohibited. Inhalation of concentrated amounts of CARC paint dust by personnel can cause injury.

WARNING

Possible damage to an open or improperly latched door could result from strong wind gusts or from heavy loading and cause injury to personnel standing nearby.

CHANGE NO. 1 HEADQUARTERS, DEPARTMENT OF THE ARMY WASHINGTON, D.C., 30 SEPTEMBER 2005

TECHNICAL MANUAL

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)
FOR
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DISTRIBUTION STATEMENT A: - Approved for public release; distribution is unlimited.

TM 10-5411-232-13&P, dated 1 August 2001, is changed as follows:

- 1. File this sheet in the front of the manual for reference.
- 2. This change implements the Army Maintenance Transformation and changes the Maintenance Allocation Chart (MAC) to Support Field and Sustainment Maintenance.
- 3. New or updated text is indicated by a vertical bar in the outer margin.
- 4. Added illustrations are indicated by a vertical bar adjacent to the figure number. Changed illustrations are indicated by a miniature hand adjacent to the updated area and a vertical bar adjacent to the figure number.
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Work Package Number

WP 0021 00

By Order of the Secretary of the Army:

PETER J. SCHOOMAKER

General, United States Army Chief of Staff

Official:

Sandra R. Riley SANDRA R. RILEY

Administrative Assistant to the Secretary of the Army
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Dates of issue for the original manual and changed pages/work packages are:

Original 1 August 2001 Change 1 30 September 2005

TOTAL NUMBER OF PAGES FOR FRONT AND REAR MATTER IS 20 AND TOTAL NUMBER OF WORK PACKAGES IS 26, CONSISTING OF THE FOLLOWING:

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| Front Cover | Ō | WP 0012 00 (2 pgs) | Ō |
| Warning | 0 | WP 0013 00 (2 pgs) | 0 |
| i – iii/(iv blank) | 0 | WP 0014 00 (2 pgs) | 0 |
| v/(vi blank) | 0 | WP 0015 00 (2 pgs) | 0 |
| Chp 1 title page (2 pgs) | 0 | WP 0016 00 (2 pgs) | 0 |
| WP 0001 00 (2 pgs) | 0 | WP 0017 00 (2 pgs) | 0 |
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TECHNICAL MANUAL

OPERATOR'S, UNIT, AND DIRECT SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL) FOR

CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II

NSN 5411-01-467-3185 (CAMOUFLAGE) NSN 5411-01-479-1925 (SAND)

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 the procedures, please let us know. Mail your letter together with DA Form 2028 (Recommended Changes to Publications and Blank Forms), located in the back of this manual, directly to: Commander, U.S. Army Soldier Biological and Chemical Command, ATTN: AMSSB-RIM-E(N) Kansas Street, Natick, MA 01760-5052. You may also send in your recommended changes via electronic mail directly to "AMSSB-RIM-E@natick.army.mil". A reply will be furnished to you. Instructions for sending an electronic 2028 may be found in this manual immediately preceding the hard copy 2028.

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CONTROLS AND INDICATORS

HEADQUARTERS, DEPARTMENT OF THE ARMY

TM 10-5411-232-13&P

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HOW TO USE THIS MANUAL

This manual contains General information, Operating Instructions, Operator's Preventive Maintenance Checks and Services (PMCS), Troubleshooting, and Maintenance/Repair instructions for the Cargo Bed Cover (CBC) M105A2 TRAILER, Type II.

Chapter 1 contains introductory information on the CBC and its associated equipment as well as Theory of Operation. Chapter 2 includes operator instructions under usual and unusual conditions. Chapter 3 contents include operator troubleshooting procedures. Chapter 4 contains operator maintenance instructions, PMCS and service procedures. Chapter 5 contains unit maintenance instructions. Chapter 6 contains minor and major repair procedures. Chapter 7 contains references and other supporting information. Chapter 7 also includes the Maintenance Allocation Chart and the Repair Parts and Special Tools List (RPSTL) which identifies those parts or tools which are unique to the operation and maintenance of this equipment.

Figures. Illustrations in this manual other than the RPSTL are not numbered. They are immediately following the paragraph which contains their callouts.

Manual Organization and Page Numbering System. The manual is divided into six major chapters that detail the topics mentioned above. The work package is numbered sequentially starting at page 1 and has its own page numbering scheme. A page number such as 0010 00-1/2 blank means that page 1 contains information but page 2 of the work package has been intentionally left blank.

Finding Information. The manual has a master Table of Contents as well as separate chapter Tables of Content. The master Table of Contents on pages i through iii permits the reader to find information in the manual quickly. The reader should start here first when looking for a specific topic. The master Table of Contents lists the topics contained within a chapter and where it can be found. Refer to the Table of Contents at the beginning of each chapter for a detailed listing of each topic and the work package sequence number.

An Alphabetical Index can be found at the back of the manual, and lists specific topics of the work package.

A Glossary of Terms is provided to explain terms and words which are unique to this equipment.

CHAPTER 1

INTRODUCTION FOR CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II

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SCOPE

This technical manual is for use by personnel responsible for the operation, maintenance, checks and services, and preventive and corrective maintenance for the Cargo Bed Cover (CBC) M105A2 Trailer, Type II. The CBC is designed to protect, store, and secure equipment, tools and pilferable supplies while being transported on tactical wheeled vehicles.

Type of Manual: Operator's, Unit, and Direct Support Maintenance.

Equipment Name and Part Number: Cargo Bed Cover (CBC) M105A2 Trailer, Type II; Part Number 104008.

Purpose of Equipment: The primary mission of the CBC is to provide a rigid enclosure designed to secure and environmentally protect items while not diminishing the transportation requirements of the host vehicle. The cover serves as a vented, weathertight, lockable alternative to the "bow and canvas" type cover currently used on a number of light and medium tactical vehicles and trailers.

MAINTENANCE FORMS RECORDS AND REPORTS.

Department of the Army forms and procedures used for CBC maintenance will be those prescribed by DA PAM 738-750, Functional Users Manual for The Army Maintenance Management System (TAMMS).

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIRs).

If your CBC needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about the equipment. Let us know why you don't like the design or performance. Put it on an SF368 Product Quality Deficiency Report. Mail it to: Commander, U.S. Army Soldier and Biological Chemical Command. ATTN: AMSSB-RIM-E(N), Kansas St. Natick MA 01760. We will send a reply to your report.

CORROSION PREVENTION AND CONTROL (CPC).

Corrosion Prevention and Control (CPC) of Army materiel is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items.

While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials, such as rubber or plastic. Unusual cracking, softening, swelling or breaking of these materials may be a corrosion problem.

If a corrosion problem is identified, it can be reported using SF368, Product Quality Deficiency Report. Use of key words such as "corrosion", "rust", "deterioration" or "cracking" will ensure that the information is identified as a CPC problem. This form should be submitted to the address specified in DA Pam 738-750.

DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE.

For procedures to destroy this equipment to prevent its use by the enemy, refer to TM 750-244-3, Procedures for Destruction of Army Equipment to Prevent Enemy Use (Mobility Equipment Command).

PREPARATION FOR STORAGE AND SHIPMENT.

Refer to Work Package 0010 00 for procedures to prepare the CBC for storage and shipment.

WARRANTY INFORMATION.

The manufacturer shall not be liable for any special or consequential damages, including normal wear and tear or misuse. Warranty for the CBC will be in effect for a period of ten (10) years from the date of sale.

NOMENCLATURE CROSS-REFERENCE LIST.

Common NameOfficial NameCBCCargo Bed CoverTrailerM105A2 Trailer

LIST OF ABBREVIATIONS.

| AP | Attaching Parts | MOS | Military Occupational Specialty |
|-------|----------------------------------|-------|-------------------------------------|
| A/R | As Required | MTOE | Modified Table of Organization |
| BII | Basic Issue Items | | and Equipment |
| BOI | Basis of Issue | NHA | Next Higher Assembly |
| CAGEC | Commercial and Government Entity | NIIN | National Item Identification Number |
| | Code | NSN | National Stock Number |
| CARC | Chemical Agent Resistant Coating | PMCS | Preventive Maintenance Checks |
| CBC | Cargo Bed Cover | | and Services |
| COEI | Components of End Item | P/N | Part Number |
| COML | Commercial | REF | Reference |
| CPC | Corrosion Prevention Control | RPSTL | Repair Parts and Special Tools List |
| CTA | Common Table of Allowance | SMR | Source, Maintenance and |
| EIR | Equipment Improvement | | Recoverability |
| | Recommendation | TMDE | Test Measurement and Diagnostic |
| EMP | Electromagnetic Pulse | | Equipment |
| FGC | Functional Group Code | UOC | Usable on Code |
| HCI | Hardness Critical Item | UUT | Unit Under Test |
| MAC | Maintenance Allocation Chart | | |

SAFETY, CARE AND HANDLING.

Always pay attention to Warnings, Cautions and Notes appearing throughout the manual. They will appear prior to applicable procedures. Ensure you read and understand their content to prevent serious injury to yourself and others, or damage to equipment.

- Safety shoes, gloves and eyewear are required to protect personnel when installing and lifting the CBC.
- The CBC lifting device should be within the annual inspection period and the CBC weight should be within the lifting device weight capacity of 1 ton minimum.
- No one should be under the suspended CBC, on the vehicle or inside the CBC when the CBC is being loaded.

- The CBC is not a shelter system. Personnel may not ride or sleep in the back of the vehicle when the CBC is used.
- Only approved lifting devices should be used to install and remove the CBC.
- Personnel should not stand under the CBC while it is being hoisted.

EQUIPMENT CHARACTERISTICS, CAPABILITIES AND FEATURES.

The CBC is an alternative to bow and canvas covers and a replacement to the locally constructed builtup non-standard plywood, steel, or fiberglass shelters currently used in the field for storage of mission equipment. Unlike the "bow and canvas" the CBC cannot transport personnel, but troops can work inside the CBC once the CBC is deployed.

Characteristics

Molded structure
Upper and lower aft access doors
Can be installed by MOS non-specific personnel
Waterproofed/non water intrusive
Fiberglass reinforced plastic
2-Way ventilators for fresh air ventilation
External transportable by helicopter

Capabilities

2-Way ventilators
Inside override door lock
Blackout capable
Oversized doors capable of entering and exiting
while carrying equipment or supplies
Standard military lift/tie-down points for transport by
helicopter sling when installed on vehicle only
Ports provided to permit pass through of power
and signal lines

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.

The major components of the CBC are identified in Figure 1, and described in the following paragraphs.

Upper and Lower Door Assemblies - Two separate door assemblies, upper and lower, are located on the aft end of the CBC. The doors can be interlocked with each other by engaging the handle of the upper door. This then allows both doors to be closed and opened together at the same time. The lower door can be separately locked in place by operating the latch on the inside. Note that the upper door must be open to accomplish this. An override of the latch allows the doors to be opened from the inside in case of emergency.

2-Way Ventilator - A 2-way ventilator is located on road side and curb side of the CBC towards the forward end. The ventilators are operated from the inside.

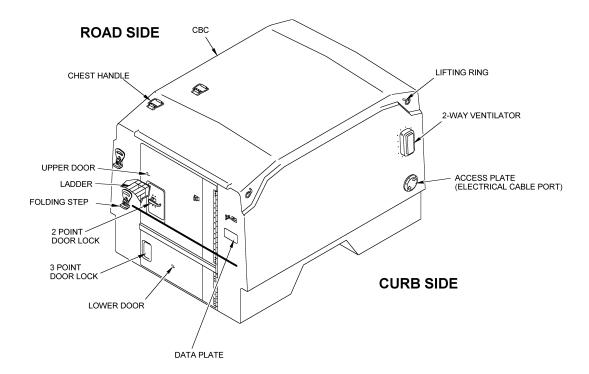
Folding Step - There are two folding steps located on the aft (external) end of the CBC. The steps are spring-loaded and extend and retract when operated by hand. The steps provide access for climbing on top of the CBC. Under normal conditions, the steps are retracted.

Ladder - The ladder is a 24" folding step ladder located inside the CBC. It is secured with an adjustable ratchet strap assembly that is molded on the CBC.

Chest Handle - Two chest handles are provided on top of the CBC near the aft left side. They are used for gripping when climbing on top of the CBC by using the folding steps.

Access Plate - The two access plates, one on each side of the CBC, are round covers that are screwed onto the cable boots attached to the CBC. When loosened, the access plate is supported by a lanyard which is bolted from inside onto the CBC. When the access cover is open, electrical or signal cables can be pushed through the cable boot opening for equipment used inside the CBC.

Door Lock - The door lock can be operated from outside or inside the CBC even if the doors are locked from outside. This is an override feature. In addition, the upper door can be latched with the lower door to provide a single function operation.



Major Components

DIFFERENCES BETWEEN MODELS

There is only one model CBC for the M105A2 Trailer, therefore, "Differences Between Models" does not apply.

EQUIPMENT DATA

Table 0002 00-1 lists the dimensions of the CBC.

| | Table 0002 00-1. | Equipment Data | |
|-------------|------------------|-----------------------|---------|
| CBC | DIMENSIO | WEIGHT | |
| | INTERNAL | EXTERNAL | 425 lbs |
| HEIGHT | 63.5 | 64.0 | |
| WIDTH | 71.0 | 78.0 | |
| LENGTH | 108.0 | 111.3 | |
| USABLE | | 53 Square Feet | |
| FLOOR SPACE | | | |
| DRIVING | | 55 Miles Per Hour | |
| SPEED LIMIT | | | |

LIFTING REQUIREMENTS

Four lifting rings are provided, one on each side corner of the CBC, and located near the top. To lift the CBC, cables from an approved overhead lifting device are attached to the four lifting rings. See CBC LIFT ONLY stenciled on the shell. See Table 0002 00-2 for lifting requirements.

Table 0002 00-2. Lifting Requirements

Type of Equipment Lifting Capacity

Wrecker or crane 1 ton minimum

EQUIPMENT CONFIGURATION

The CBC is a single, molded unit which is installed by lifting it onto an M105A2 Trailer and bolting it down.

THEORY OF OPERATION

The Cargo Bed Cover (CBC) M105A2 Trailer, Type II unit is designed to be mounted on an M105A2 Trailer which is towed by an Army vehicle. Its purpose is to carry and store equipment for use in the field. The CBC is suitable for worldwide transportation and storage environments, including helicopter airlift when mounted on an M105A2 Trailer. It is waterproof, vented, CARC painted and secure. CBCs are painted in either sand color or in a camouflage pattern. The CBC shell features include a non-skid interior floor and exterior roof, equipment mounting provisions on three walls and the roof panel. The aft portion of the roof of the trailer is composed of a slanted fiberglass rain hood, which is molded directly onto the roof. The shell is composite fiberglass, which makes it resistant to the harshest of environments for the life of the CBC. All attaching hardware is corrosion-resistant. A CBC installation kit containing the required hardware and instructions for mounting is furnished with each CBC. The CBC is mounted on the M105A2 Trailer using eight holes in the side panels which are drilled upon installation with no further modification to the trailer whatsoever.

The CBC has two doors, an upper and a lower door, located at the aft end to gain access to the unit. The doors can be latched together to operate as a single door or operate separately. An override lock on the inside of upper door allows personnel to exit in case of an emergency.

Additional features of the CBC are as follows:

- Two 2-way ventilators for air circulation.
- Two access plates, one each side, when unscrewed allow cables to be pushed through the cable boot opening for connecting with equipment inside the CBC. When unscrewed, the access plate hangs to the outside supported by a lanyard.
- A 24" ladder is stored inside the CBC and held in place by a ratchet strap assembly. It is used for climbing into the CBC.
- Two folding steps, located at the aft end, when extended, provide access to the roof of the CBC. The steps are spring-loaded.
- Two chest handles are located on the roof to grab onto when climbing the steps.
- For lifting the CBC, lifting rings are attached on each corner near the top.

CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II COMMON TOOLS AND EQUIPMENT

0004 00

COMMON TOOLS AND EQUIPMENT

For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE), CTA 50-970, Expendable/Durable Items (Except: Medical, Class V, Repair Parts, and Heraldic Items), or CTA 8-100, Army Medical Department Expendable/Durable Items, as applicable to your unit. Also refer to General Mechanics Tool Kit 5160-00-177-7033 and Hand Blind Riveter, NSN 5129-00-017-2849.

0004 00

REPAIR PARTS, SPECIAL TOOLS, TMDE AND SUPPORT EQUIPMENT

Repair parts are listed and illustrated in Work Packages 0023 00 and 0024 00 of this manual.

The CBC requires no special tools, Test Measurement and Diagnostic Equipment (TMDE) or special Support Equipment to assemble or disassemble before, during or after maintenance checks and services.

CHAPTER 2

OPERATOR'S INSTRUCTIONS FOR CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II

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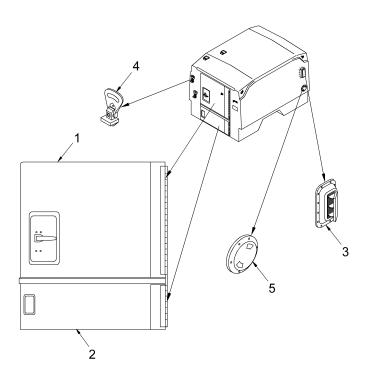
GENERAL

This paragraph contains illustrations that show the location of each control on the CBC.

NOTE

There are no indicators on the CBC.

Find numbers on the illustrations are keyed to the Table 1 listing which contains the name and function of each control. Table 1 describes the controls for the Upper Door Assembly (1), Lower Door Assembly (2), 2-Way Ventilator (3), Folding Step (4) and Access Plate (5).



CBC Controls

CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II CONTROLS AND INDICATORS

0005 00

Table 0005 00-1. CBC Controls

| KEY | KEY CONTROL FUNCTION | | |
|-----|---------------------------|---|--|
| 1 | Upper Door Assembly Latch | Handle opens and closes upper door | |
| 2 | Lower Door Assembly Latch | Handle opens and closes lower door | |
| 3 | 2-Way Ventilator | Grip bar opens and closes 2-way ventilator | |
| 4 | Folding Step | Extends to provide a step, retracts when not in use | |
| 5 | Access Plate | When unscrewed, provides opening to insert electrical or signal cables into the CBC | |

TM 10-5411-232-13&P

CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II OPERATION UNDER USUAL CONDITIONS

0006 00

THIS WORK PACKAGE COVERS:

Operating Procedures, Preparation for Movement

INITIAL SETUP:

Maintenance Level

Materials/Parts

Operator Hardware Kit P/N 104245

Tools and Special Tools

Combo Wrench, 9/16" Deep Socket

OPERATING PROCEDURES

WARNING

Suffocation hazard. Door must remain open while occupied.

Operation of Upper and Lower Doors. Both upper and lower doors can be operated separately or, when latched together, as a unit. The upper door opens and closes by using the handle. The lower door latch is operated from the inside.

NOTE

There is an override which allows the door to be opened from the inside, in case of emergency.

The lower door swings sideways and is locked in place from inside. When both doors are latched together as a unit, they are operated by the handle on the upper door. With the lower door closed and locked in place, the upper door can be opened and closed separately.

Operation of 2-Way Ventilators. The 2-way ventilators can be opened and closed by operating grip bars from inside the CBC.

Operation of Folding Steps. The two folding steps are spring-loaded and are manually operated. Steps are extended for use when access to top of CBC is required, and retracted when not in use.

DECALS AND INSTRUCTION PLATES

The following stenciled instructions plus a data plate decal are provided on the CBC:

SUFFOCATION HAZARD. DOORS MUST REMAIN OPEN WHILE OCCUPIED

This instruction is located inside on the upper door of the CBC and serves as a warning.

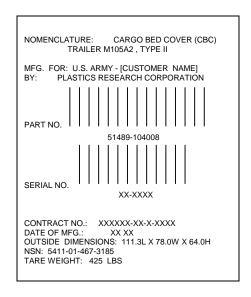
ELECTRICAL CABLE PORT

This instruction is located directly below the access plates, on either side of the CBC. It indicates that electrical cables may be pushed through the opening when the access plate is removed.

CBC LIFT ONLY

This instruction is located on each upper corner of the CBC indicating where to attach chains or straps for hoisting the CBC.

 A data plate decal is permanently affixed to the CBC shell. It is located on the aft curb side and lists manufacturer, part number, serial number, etc. of the CBC. See WP 0002 00, Figure 1 for location and Figure 3 below for detailed information.



Data Plate

PREPARATION FOR MOVEMENT

After the CBC has been installed on the trailer towed by a vehicle and is ready to be moved, ensure that the following have been accomplished prior to movement:

- Disconnect electrical or signal cables and close access plates.
- Fold and stow ladder inside CBC and secure with adjustable ratchet strap assembly.
- Disconnect upper door from door holder and close both upper and lower doors.

END OF TASK

CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II OPERATION UNDER UNUSUAL CONDITIONS

0007 00

THIS WORK PACKAGE COVERS:

Emergency Procedures

INITIAL SETUP:

Maintenance Level

Materials/Parts

Operator

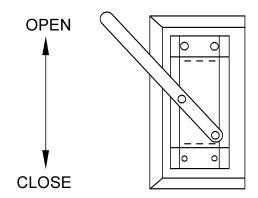
Tools and Special ToolsMallet, NSN 5120-00-926-7116

EMERGENCY PROCEDURES

WARNING

Do not remain inside the CBC with door closed. There is a suffocation hazard. A person inside the CBC can exit quickly (even with the external latch padlocked) by operating the inside handle to open the door.

In the event that personnel is accidentally locked inside the CBC, an override on the latch allows the upper door to be opened from the inside. See Override Door Latch illustration below.



Override Door Latch

0007 00-1

TM 10-5411-232-13&P

CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II OPERATION UNDER UNUSUAL CONDITIONS

0007 00

UNUSUAL ENVIRONMENTAL CONDITIONS

ICE

If ice forms around the door locks, use mallet to break ice. Gently tap near or at the door lock to free handle for movement.

CAUTION

Be careful when tapping at or near handle. Too much force may damage or break the handle.

If ice forms on the hinges, break ice by gently tapping on hinges until free movement of door is obtained.

RAIN, WIND AND SAND STORM

In case of severe rain, wind or sand storm conditions, ensure that both ventilators, access plates and all doors are closed.

END OF TASK

CHAPTER 3

OPERATOR'S TROUBLESHOOTING PROCEDURES FOR CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II

TM 10-5411-232-13&P

| TM 10-5411-23: CARGO BED COVER (CBC) M105A2 TRAILER, TYPE | |
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| TROUBLESHOOTING PROCEDURES | 0008 00-1 |

GENERAL

The troubleshooting procedure consists of a table listing the malfunctions, tests or inspections, and corrective actions required to return the CBC to normal operation. Perform the steps in the order they appear in each heading in Table 0008 00-1.

Table 0008 00-1. Troubleshooting Procedures

| MALFUNCTION | TEST OR INSPECTION | CORRECTIVE ACTION |
|---|--|---|
| Mounting holes on M105A2 Trailer towed by Army vehicle and holes in CBC will not align | Inspect holes in CBC | Using a file, gently elongate holes in CBC to match holes in M105A2 Trailer |
| Upper door does not secure | Check for bent latch assembly rod | Straighten rod. If not possible, replace latch assembly |
| Door locks stick and handles are hard to move | Check for proper lubrication | Lubricate all moving parts |
| Water leaks into CBC | Inspect door seals | Replace defective door seal(s) |
| Ventilators will not close | Check for obstruction such as sand particles, grit or dirt | Clean with approved cleaning solution and lubricate moving parts |
| Door gaskets will not seal | Inspect seals around doors for wear | Replace defective door seals |

END OF TASK

CHAPTER 4

OPERATOR'S MAINTENANCE INSTRUCTIONS FOR CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II

TM 10-5411-232-13&P CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II TABLE OF CONTENTS

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| CLEANING | 0009 00-2 |
| PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) | 0009 00-3 |

TM 10-5411-232-13&P

CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) 0009 00

THIS WORK PACKAGE COVERS:

PMCS Procedures

INITIAL SETUP:

Maintenance Level

Operator

GENERAL

Preventive Maintenance Checks and Services (PMCS) are performed to keep the CBC in good operating condition. The checks are used to find, correct, or report problems. Operators are to do the PMCS jobs keeping in mind the following guidelines:

Before you begin using the CBC, do Before PMCS.

After using the CBC, do After PMCS.

If you find something wrong when performing PMCS, fix it if you can, using unit maintenance procedures.

The right-hand column of the PMCS table lists conditions that make the CBC not fully mission capable. Write up the discrepancies not fixed on DA Form 2404 for unit support maintenance. Further information on how to use this form, see DA PAM 738-750.

If tools required to perform PMCS are not listed in WP 0021 00, notify unit maintenance.

INSPECTION

Look for signs of trouble. Senses help here. You can feel, smell, hear, or see many problems that can be eliminated before they get worse. Inspect to see if items are in good condition. Are components correctly installed and secured? Is any damage to the shell or components visible? Are all rubber seals tight and not leaking? Are all bolts and nuts tightly secured? Correct any faults or notify unit maintenance.

TM 10-5411-232-13&P

CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

0009 00

There are common items to check on the CBC. These include the following:

- Nuts, bolts, washers and rivets.
- Adhesives relating to deterioration, degradation and peeling.
- Sealers relating to deterioration and degradation.
- Paint relating to deterioration and peeling.

LUBRICATION SERVICE INTERVALS

Lubricate components using MOBILUX EP023 grease or equivalent. Recommended lubrication is every 3 months, or as required.

CLEANING

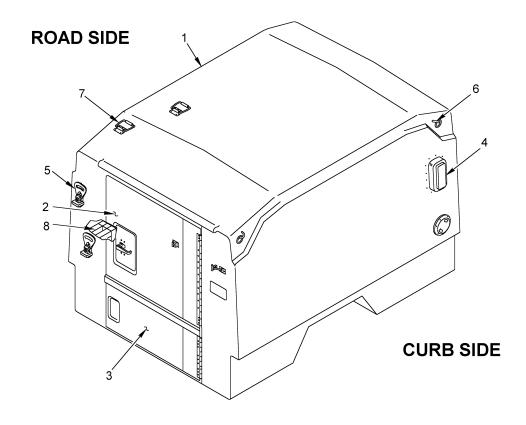
Proper cleaning of the CBC components is an integral part of maintenance. It can help prevent possible problems in the future, so make it a habit to clean all CBC components whenever necessary. Clean the shell with a brush and mild soapy water, then let air dry.

Cleaning of surfaces for repair/replacement parts: after removal of original parts, remove existent sealant.

Table 0009 00-1. Preventive Maintenance Checks and Services for CBC M105A2 TRAILER, TYPE II

| ITEM NO. | INTERVAL | MAN- HOUR | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
|-------------|-----------------|--------------|--------------------------------------|---|--|
| 1 | Before After | 0.8 | CBC Shell (1) | Visually inspect for damage such as cracks or holes. | Shell is damaged. |
| 2 | Before After | 0.1 | Upper Door (2) | Check for movement of door by inspecting hinge. Check for proper operation of door lock. Check seals. Check door holder components. | Hinge is defective or rusted, latch assembly and door holder components are defective or broken, seals are deteriorated causing leakage. |
| 3 | Before After | 0.1 | Lower Door (3) | Check for movement of door by inspecting hinge. Check for proper operation of door lock. Check seals. | Hinge is defective or rusted, door lock is defective or broken, seals are deteriorated causing leakage. |
| 4 | Before After | 0.1 | 2-Way Ventilators (4) | Check for movement of ventilators. | Ventilators do not open or close properly. |
| 5 | Before After | 0.1 | Folding Steps (5) | Check that steps fully extend and retract. | Steps do not extend or retract. |
| 6 | Before After | 0.1 | Lifting Rings (6) | Check for damage or loose hardware on lifting rings. | Lifting rings are damaged or hardware not tight. |

| Table 0009 00-1. Preventive Maintenance Checks and Services for CBC M105A2 TRAILER, TYPE II - Continued | | | | | |
|---|-----------------|--------------|--------------------------------------|--|---|
| ITEM NO. | INTERVAL | MAN- HOUR | ITEM TO BE CHECKED OR SERVICED | PROCEDURE | EQUIPMENT NOT READY/ AVAILABLE IF: |
| 7 | Before After | 0.1 | Chest Handles (7) | Check for damage or stiff movement of chest handles. | Chest handles are damaged or stick. |
| 8 | Before After | 0.1 | Ladder (8) | Inspect ladder. | Ladder does not fold or unfold or steps are broken. |



END OF TASK

CHAPTER 5

UNIT MAINTENANCE INSTRUCTIONS FOR CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II

TM 10-5411-232-13&P CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II TABLE OF CONTENTS

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| FOLDING STEP | 0016 00-1 |
| CHEST HANDLE | 0017 00-1 |
| 24-INCH LADDER | 0018 00-1 |

CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II SERVICE UPON RECEIPT

0010 00

THIS WORK PACKAGE COVERS:

Unpacking, Assembly and Preparation for Use, Installation

INITIAL SETUP:

Maintenance Level
Unit

Tools and Special Tools

Wrench, 9/16" Socket Philips #3 screwdriver 1-Ton Lifting Device 1-7/32" Allen Wrench Personnel Required
Forklift Operator
2 Personnel (Non MOS specific)

UNPACKING

The CBC is shipped as a complete, self-contained assembly. The CBC is bolted to a wooden pallet compatible with 463L specifications. It is attached to the pallet with eight screws, eight rubber gaskets, sixteen flat washers and eight nuts.

Using socket wrench on the inside of the CBC and combo wrench on the outside of the pallet, remove hardware. Save hardware in a plastic bag for future use in reshipment.

CHECKING UNPACKED EQUIPMENT

Inspect the equipment for damage incurred during shipment. If the equipment has been damaged, report the damage on SF 361, Transportation Discrepancy Report.

Check the equipment against the packing slip to see if the shipment is complete. Report all discrepancies in accordance with applicable service instructions (e.g. for Army instructions, see DA PAM 738-750)

ASSEMBLY AND PREPARATION FOR USE

The CBC requires an installation kit to be installed onto an M105A2 Trailer. It is installed as a complete unit. No assembly is required.

Remove the pallet from the CBC by removing eight bolts, nuts and washers. Save this hardware for later use in reshipment. Attach a lifting device capable of lifting at least 1 ton to each of the four lift rings located near the top corners of the CBC, and remove from pallet.

WARNING

Safe loading of the CBC requires two personnel. Stay clear of the unit while lifting, as serious injury can result if unit swings or drops and hits personnel.

Open both ventilators to allow fresh air to be circulated. If electronic equipment is to be used inside the CBC, determine if electrical power will be supplied from the road side or curb side of the CBC. Open the access plate facing the power source by rotating it counterclockwise. When opened, the access plate will be suspended by a lanyard attached inside the CBC.

INSTALLATION

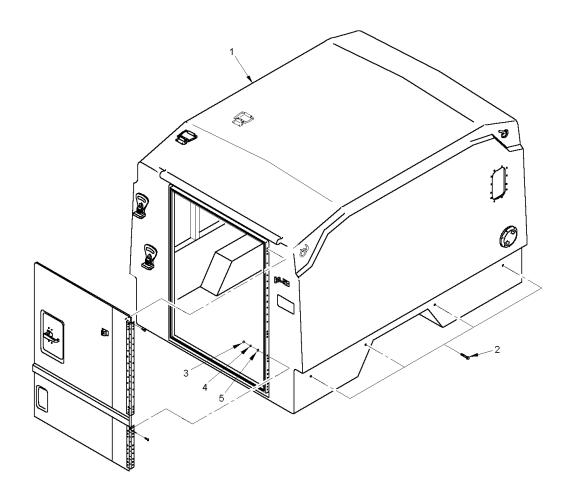
Attach CBC to a lifting device by hooking onto the four lift rings and set CBC onto an M105A2 Trailer. Open CBC upper and lower doors. Locate the eight pre-drilled holes on the CBC, four on each side. Using these holes as a template, drill through into the side of the M105A2 Trailer.

Remove the kit installation hardware (P/N 104245) supplied and located in a bag attached to the 24" ladder. Using this hardware, attach CBC to M105A2 Trailer as follows and refer to CBC Installation illustration.

- a. Insert four screws (2) and four flat washers (4), on one side of the CBC, from the outside through the M105A2 Trailer and the CBC. From inside of CBC, attach four rubber gaskets (5), four flat washers (4) and four self-locking nuts (3). Hand tighten.
- b. Repeat <u>a.</u> above for other side of CBC.
- c. Securely tighten all eight nuts (3).



Lift Ring



CBC Installation

LEGEND:

CBC (1) SCREW (2) NUT (3) FLAT WASHER (4) RUBBER GASKET (5)

TM 10-5411-232-13&P

CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) 0010 00

STORAGE AND SHIPMENT

If the CBC is being prepared for storage, make sure that 2-way ventilators, access plates and upper and lower doors are closed. Secure the 24" folding step ladder to the inside the CBC with the adjustable ratchet strap assembly located inside the CBC. Place the installation kit in a bag and attach the bag to the ladder for storage. Before closing doors, be sure that any equipment stored inside the CBC has been removed or secured. Bolt the CBC onto the shipping pallet in which it was delivered, or a suitable substitute. Store the CBC with pallet in a dry place until ready for shipment.

CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II UPPER DOOR ASSEMBLY

0011 00

THIS WORK PACKAGE COVERS:

Remove, Replace

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

Screwdriver, Philips #2 Screwdriver, Philips #3 Wrench, 7/16" Socket Drill with 1/8" Bit Riveter, Blind, Hand Pliers, Needle Nose

Materials/Parts

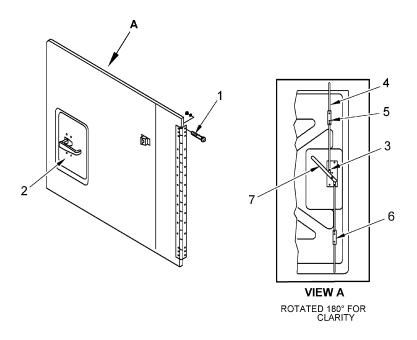
Screws 1/4-20; Washers, Flat No. 10; Lock Nuts 7/16; Rivets; Sealing Compound P/N 700145 Upper Door Ass'y P/N 104013; 2-Point Door Lock P/N 104052

GENERAL

This procedure contains information and instructions to keep CBC upper door assemblies in good working order by removing and replacing damaged parts, or the entire upper door assembly.

REMOVAL

- 1. Using Philips #3 screwdriver and socket wrench (see WP 0021 00, Table 0021 00-2, Item 1), remove sixteen screws, nuts and washers (1) from door while loosening nuts from outer side of door with combo wrench. This requires 2 personnel. Remove door.
- 2. To remove 2-point door lock assembly (2) remove and discard two cotter pins (3) from latch bars (4). Remove handle (7) and latch bars.
- 3. Using Philips #2 screwdriver, remove upper latch bracket (5) by removing two screws and spacers. Save spacers. Loosen nuts with socket wrench from inside. This requires 2 personnel. Remove upper latch bracket. Repeat this procedure for lower latch bracket (6).
- 4. Remove 2-point door lock by using Philips #3 screwdriver and socket wrench (see WP 0021 00, Table 0021 00-2, Item 1). Remove four screws, nuts and washers while loosening nuts with socket wrench from inside.
- 5. To remove outside handle of 2-point door lock (2), use drill (see WP 0021 00, Table 0021 00-2, Item 3), and drill out three rivets from inner side of door. Pull off handle.



REPLACE

- 1. Using Philips #3 screwdriver and socket wrench, attach upper door with sixteen screws, nuts and washers (1). Before tightening nuts from outer side of door with socket wrench, apply sealer around screw holes to prevent water leakage. Tighten securely.
- 2. Using riveter (see WP 0021 00, Table 0021 00-2, Item 2), attach outside handle on 2-point door lock (2) with three rivets from inside.
- 3. Using Philips #2 screwdriver and socket wrench, attach 2-point door lock with four screws, nuts and washers. Tighten nuts with socket wrench from inner side of door. Apply sealer around screws.
- 4. Attach upper latch bracket (5), bracket hole facing up and and lower latch bracket (6), bracket hole facing down, including spacers, with two screws, nuts and washers for each bracket. Realign spacers, then tighten. DO NOT OVERTIGHTEN.
- 5. Insert long latch bar into upper bracket and short latch bar into lower bracket. Align holes on latch bars with holes on handle (7).
- 6. Insert two new cotter pins (3) to secure latch bars and handle. This requires 2 personnel.

END OF TASK

CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II DOOR HOLDER

0012 00

THIS WORK PACKAGE COVERS:

Remove, Replace

INITIAL SETUP:

Maintenance Level
Unit
Tools and Special Tools
Screwdriver, Philips #2
Wrench, 3/8" Socket
Drill with 1/8" Bit

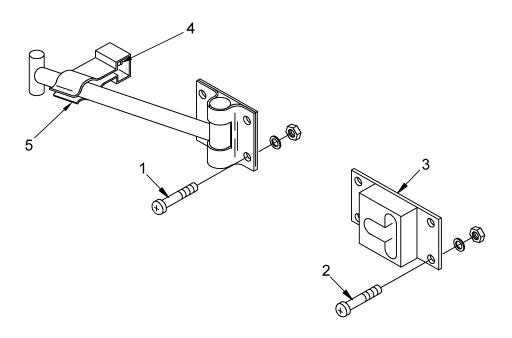
Materials/Parts Screws 10-24; Washers, Flat No. 10; Nut, Self-Lock 10-24; Door Holder P/N 104054; Spring Clip P/N 1723A1; Sealing Compound P/N 700145

GENERAL

This procedure contains information and instructions to keep CBC door holder assemblies in good working order by removing and replacing damaged parts, or the entire door holder assembly.

REMOVAL

- 1. Using Philips screwdriver and socket wrench (see WP 0021 00, Table 0021 00-2, Item 1), loosen nuts (1) on inside corner of CBC with socket wrench. Remove four screws, washers and nuts from door holder on outside corner of CBC. Remove door holder.
- 2. Using Philips screwdriver and socket wrench (see WP 0021 00, Table 0021 00-2, Item 1), loosen nuts from inner side of door, with socket wrench. Remove four screws, washers and nuts (2) from door holder bracket (3) on upper door. This requires 2 personnel. Remove door holder bracket.
- 3. Using drill (see WP 0021 00, Table 0021 00-2, Item 3), drill out one pop rivet (4) and remove spring clip (5).



REPLACE

- 1. Using Philips screwdriver and socket wrench, attach door holder to outside corner of CBC. Replace four screws, washers and nuts (1) and align with existing holes. Before tightening nuts from inside CBC, apply sealer around screws. Tighten nuts securely.
- 2. Using Philips screwdriver and socket wrench, attach door holder bracket (3) to upper door. Replace four screws, washers and nuts (2) and align with existing holes. Before tightening nuts from inner side of door, apply sealer around screws. Tighten nuts securely.
- 3. Attach spring clip (5) to CBC with screw, nut and washer. Tighten securely.

END OF TASK

THIS WORK PACKAGE COVERS:

Remove, Replace

INITIAL SETUP:

Maintenance Level
Unit
Tools and Special Tools
Screwdriver, Philips #3
Wrench, 7/16" Socket
Combo Wrench, 3/8"

Materials/Parts

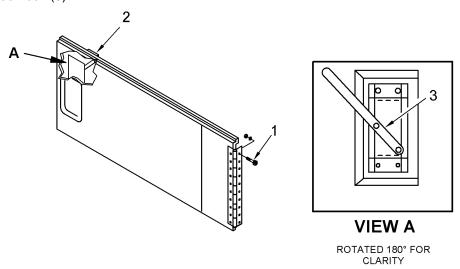
Screws 1/4-20; Washers, Lock No. 10; Lock Nuts, 1/4-20; Sealing Compound P/N 700145; Lower Door Ass'y P/N 104014; 3-Point Door Lock P/N 104053

GENERAL

This procedure contains information and instructions to keep CBC lower door assemblies in good working order by removing and replacing damaged parts, or the entire lower door assembly.

REMOVAL

- Using Philips screwdriver and socket wrench (see WP 0021 00, Table 0021 00, Item 1), remove ten screws, nuts and washers (1) from door while loosening nuts from outer side of door with wrench. Remove door.
- 2. Using Philips screwdriver and open end of 3/8" combo wrench, remove four screws, nuts and washers and remove striker plate (2).
- 3. Using Philips screwdriver and socket wrench, remove four screws, nuts and washers and remove 3-point door lock (3).



0013 00-1

REPLACE

- 1. Using Philips screwdriver and socket wrench, attach lower door with ten screws, nuts and washers (1). Apply sealer around screws. Tighten securely.
- 2. Using Philips screwdriver and open end of combo wrench, replace four screws, nuts and washers, and replace striker plate (2).
- 3. Using Philips screwdriver and socket wrench, replace 3-point door lock (3) with four screws, nuts and washers. Tighten securely.

END OF TASK

THIS WORK PACKAGE COVERS:

Remove, Replace

INITIAL SETUP:

Maintenance Level
Unit
Tools and Special Tools
Screwdriver, Philips #2
Wrench, 3/8" Socket

Materials/Parts

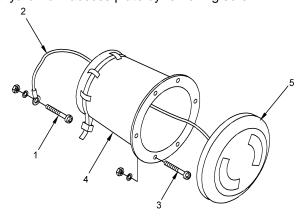
Screws 10-24, .88 lg; Washers, Flat No. 10; Washers, Lock No. 10; Nuts 10-24; Screw 6-32, .25 lg; Access Plate P/N AP40W; Cable Boot P/N 18-4055; Lanyard P/N MS25083-2CC28; Sealing Compound P/N 700145

GENERAL

This procedure contains information and instructions to keep CBC access plate assemblies in good working order by removing and replacing damaged parts.

REMOVAL

- 1. Using Philips screwdriver and wrench (see WP 2100 00, Table 0021 00-2, Item 1), remove screw, nut, and washer (1) holding lanyard (2) to the inside of CBC shell, by loosening nut from inside.
- 2. Turn access plate (5) counter-clockwise and remove.
- 3. Using Philips screwdriver and wrench, remove additional five screws, nuts and washers (3) from inside CBC on cable boot (4) by loosening nuts from inside. Two personnel are required. Remove cable boot.
- 4. Remove other end of lanyard from access plate by removing screw.



0014 00-1

REPLACE

- 1. Apply sealer P/N 700145 around the outside of opening and seat cable boot into opening.
- 2. Fasten cable boot with five screws, nuts and washers (3), screws from outside, and secure tightly.
- 3. Re-install lanyard and access plate with additional screw.

THIS WORK PACKAGE COVERS:

Remove, Replace

INITIAL SETUP:

Maintenance Level
Unit
Tools and Special Tools
Screwdriver, Philips #2
Wrench, 3/8" Socket

Materials/Parts

Screws, 10-24 x .63 lg; Washers, No. 10; Nuts, 10-24 Self-Lock; 2-Way Ventilator P/N 104050; Sealing Compound P/N 700145

GENERAL

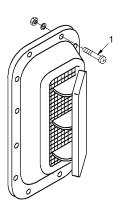
This procedure contains information and instructions to keep CBC 2-way ventilator assemblies in good working order by removing and replacing damaged parts.

REMOVAL

1. Using Philips #2 screwdriver, remove twelve screws, nuts and washers (1), while loosening nuts with socket wrench from inside CBC shell. Remove 2-way ventilator by pushing it through to the inside. This requires two personnel.

REPLACE

 Apply sealer P/N 700145 around the inside and outside of flange and screws. Seat 2-way ventilator into opening and, using screwdriver and socket wrench, replace screws, nuts and washers. Tighten securely.



END OF TASK

THIS WORK PACKAGE COVERS:

Remove, Replace

INITIAL SETUP:

Maintenance Level
Unit
Tools and Special Tools
Combo Wrench, 1/2"
Wrench, 1/2" Socket

Materials/Parts

Screws 5/16-18, 1.25 lg; Washers, Lock No. 12; Flat Washers No. 12; Nuts 5/16-18; Folding Step P/N 104055; Sealing Compound P/N 700145

GENERAL

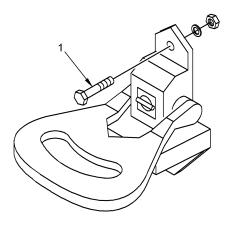
This procedure contains information and instructions to keep CBC folding step assemblies in good working order by removing and replacing damaged parts.

REMOVAL

1. Using socket wrench (see WP 0021 00, Table 0021 00-2, Item 1), remove two bolts, nuts and washers (1), one set from top part of step and one set from bottom part of step, which hold the folding step to the CBC shell. Hold bolts from the outside with combo wrench to remove folding step.

REPLACE

1. Apply sealer P/N 700145 to the area to be covered with the step. Replace folding step with bolts, nuts and washers (1). Tighten securely.



END OF TASK

THIS WORK PACKAGE COVERS:

Remove, Replace

INITIAL SETUP:

Maintenance Level
Unit
Tools and Special Tools
Screwdriver, Philips #2
Wrench, 3/8" Socket

Materials/Parts Screws 10-24, .88 lg; Washers, Flat No. 10; Washers, Lock No. 10; Nuts 10-24; Chest Handle P/N 700272

GENERAL

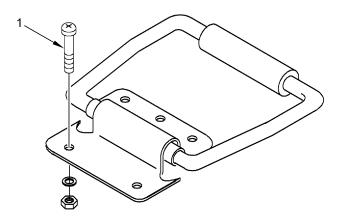
This procedure contains information and instructions to keep CBC chest handle assemblies in good working order by removing and replacing damaged parts.

REMOVAL

1. Using screwdriver and wrench (see WP 0021 00, Table 0021 00-2, Item 1), remove five screws, nuts and washers (1) holding the chest handle to the CBC shell. Hold bolts from inside with socket wrench. Two personnel are required.

REPLACE

1. Apply sealer P/N 700145 to the area to be covered with the chest handle. Replace chest handle and fasten with five screws, nuts and washers (1). Tighten securely.



END OF TASK

CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II 24-INCH LADDER

0018 00

THIS WORK PACKAGE COVERS:

Remove, Replace

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

None

Materials/Parts
24-Inch Ladder P/N 104049

GENERAL

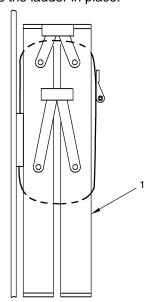
This procedure contains information and instructions to keep CBC ladder assemblies in good working order by removing and replacing damaged parts.

REMOVAL

1. Open ratchet strap assembly by pulling up on inner lock, holding it and pulling it to full down position. Release strap and remove ladder (1).

REPLACE

1. Place ladder against CBC in front of ratchet strap assembly. Connect buckle and move it up and down to tighten the strap. This holds the ladder in place.



END OF TASK

CHAPTER 6

DIRECT SUPPORT MAINTENANCE INSTRUCTIONS FOR CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II

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| INTERIOR MOUNTING INSTRUCTIONS | 0019 00-6 |

CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II CBC SHELL ASSEMBLY

0019 00

THIS WORK PACKAGE COVERS:

Minor Repair, Major Damage Repair, Lifting Ring Repair

INITIAL SETUP:

Maintenance Level
Direct Support
Tools and Special Tools
None

Materials/Parts Repair Kit P/N 104276-1 Repair Kit P/N 104276-2

GENERAL

This procedure contains information and instructions to keep CBC shell and door fiberglass components in good working order by repairing damaged fiberglass areas.

MINOR REPAIR

For cracks of any size or holes that are less than 6 inches in length, width or diameter on any fiberglass part of the CBC, repair by using Repair Kits P/N 104276-1 and 104276-2. See Tables 0019 00-1 and 0019 00-2 for kit components. For holes larger than 6 inches in length, width or diameter, see Major Damage Repair.

Cracks and Holes. To repair cracks and holes proceed as follows:

WARNING

All chemical materials used in this process are flammable and toxic. Use only in well ventilated areas. Avoid prolonged or repeated breathing of the vapors or contact with the skin. Make repairs to fiberglass parts in a well ventilated area. Always wear breathing mask, gloves and eye protection.

NOTE

All repairs should be performed on the interior surfaces.

a. Using 36-grit sandpaper, hand-sand an area approximately 3 inches larger in all directions from the damaged area. This might necessitate removing adjacent components temporarily.

NOTE

An active charcoal filter face mask should be worn when sanding the CARC paint on the interior or exterior of CBC. CARC paint dust is a carcinogenic agent.

Table 0019 00-1. CBC Repair Kit P/N 104276-1 (Shelf Life Items)

| PART NUMBER | NOMENCLATURE | QUANTITY |
|-------------|------------------------------------|----------|
| | | |
| 700155 | Epoxy Filler, Kit | 1 |
| 700455 | Epoxy Resin Kit, 1 qt A and 1 qt B | 1 |
| | | |

Table 0019 00-2. CBC Repair Kit P/N 104276-2 (Indefinite Shelf Life Items)

| PART NUMBER | NOMENCLATURE | QUANTITY |
|-------------|---|----------|
| | | |
| COML | Brush, Paint, 2 in. wide, Fed. Spec. H-B-4200 | 3 |
| 700062 | Mat, Fiberglass, 915 g/m ² (3 oz/ft ²) (2 ft x 3 ft) | 2 |
| 700127 | MIL-M-43248 Cloth, Fiberglass, 240 g/m ² (7 oz/yd ²) (3 ft x 4 ft) MIL-C-19663 | 2 |
| COML * | Polyethylene Sheet (4 ft x 4 ft) | 1 |
| COML | Kraft Paper (3 ft x 6 ft) | 1 |
| COML | Tongue Depressor | 4 |
| COML | Mixing Stick, Wood | 4 |
| COML | Gloves, Polyethylene (medium and large) | 1 pair |
| COML | Sandpaper No. 36 Grit, Fed. Spec. P-P-105 | 4 sheets |
| COML | Sandpaper No. 120 Grit, Fed. Spec. P-P-105 | 4 sheets |
| | | |

^{*} Commercially available

- b. Cut a piece of fiberglass mat (P/N 700062) to size plus 3 inches larger in all directions from the damaged area.
- c. Mix epoxy components A and B and apply the mixture (hereinafter referred to as resin) to the sanded area, using a paint brush. Resin has a workable time of approximately 20 minutes after mixing.

WARNING

The resin and acetone (paint remover) must not be allowed to come in contact with sensitive parts of the body. Blindness could result from direct contact with these materials to the eyes. In the event of eye exposure, quickly flush the eyes with water and consult a physician. Use gloves when handling any of these materials.

- d. Apply resin to the fiberglass mat with the brush until the mat is wetted thoroughly.
- e. Apply the fiberglass mat to the interior surface of the shell over the damaged area. The area should be wet with resin.
- f. Cut a piece of fiberglass cloth (P/N 700127) to a size 3 inches larger in all directions from the damaged area.
- g. Apply the fiberglass cloth over the previously installed fiberglass mat. Use a brush to smooth and fair the wet fiberglass mat. Ensure that any air bubbles are evacuated.
- h. Apply resin to the fiberglass cloth. Allow the resin to air cure for 24 hours. In low temperature areas, apply heat, e.g. heat lamp. (Do not use open flame).
- i. Cracks or holes may require filling from the exterior of the shell in addition to the interior repair. This is accomplished by filling with resin and mat, or epoxy filler.
- j. After curing, sand the repaired area, using 36, then 120 grit sandpaper. Wipe clean.
- k. Paint with CARC paint MIL-C-46168 (not supplied in kit), color sand (P/N 700500-6) or camouflage pattern (P/N 104269).

END OF TASK

MAJOR DAMAGE REPAIR

- a. Procedures similar to minor surface repairs apply. When the damage is extensive or sections larger than 6 inches of damaged material need to be cut away, it will be necessary to place a backing plate on the external surface and secure it there. The backing plate, coated with wax or other mold release can be attached with screws and the screw holes filled later after internal patching procedure has been completed and the material cured. The plate may be metal, wood or another suitable material, capable of providing a straight, smooth surface over the hole.
- b. Gloves (see Table 0019 00-2) shall be used to avoid getting resin on hands.

LIFTING RING REPAIR

- a. Using 1/2" combo wrench outside and 1/2" deep socket wrench inside CBC, remove two screws, lock washers and backing plate from inside CBC. Retain the backing plate for installation of the new ring.
- b. Remove U-bolt, flat washer and ring from outside.

WARNING

All chemical materials used in this process are flammable and toxic. Use only in well ventilated areas. Avoid prolonged or repeated breathing of vapors or contact with skin.

- c. Clean old sealant from the screw holes in the shell with acetone. Allow it to dry.
- d. Use sealing compound (P/N 700145) in and around the screw holes.
- e. Install the new lifting rings (P/N 700407), U-bolts (P/N 700406) and attaching hardware. Tighten securely.

END OF TASK

INTERIOR MOUNTING INSTRUCTIONS

Rivnut Fastener Installation

The purpose of the rivnuts is to provide areas for hanging any number of items within the CBC. Rivnuts may be installed on any of the internal stiffening ribs on the CBC's sides or ceiling. It is best to use 5/16 in. flat head rivnuts, P/N 37-115 (B.F. Goodrich).

- a. Drill a .490 in. .500 in. hole, .850 in. deep into the rib of the CBC.
- b. Insert the rivnut. Screw in C-722 wrench type header and pull the rivnut by rotating the head with an allen wrench.
- c. Remove tool after installation.

END OF TASK

CHAPTER 7

SUPPORTING INFORMATION FOR CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II

TM 10-5411-232-13&P CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II TABLE OF CONTENTS

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SCOPE

This work package lists all field manuals, forms, technical manuals and miscellaneous publications referenced in this manual.

FIELD MANUALS

| Basic Cold Weather Manual | FM 31-70 |
|-----------------------------|----------|
| First Aid for Soldiers | FM 21-11 |
| Mountain Operations | FM 90-6 |
| NBC Decontamination | FM 3-3 |
| Northern Operations | FM 31-71 |
| Vehicle Recovery Operations | FM 20-22 |

FORMS

| Equipment Control Record | DA Form 2408-9 |
|---|----------------|
| Equipment Inspection and Maintenance Worksheet | DA Form 2404 |
| Transportation Discrepancy Report | SF361 |
| Product Quality Deficiency Report | SF368 |
| Recommended Changes to Equipment Technical Publications | DA Form 2028-2 |
| Recommended Changes to Publications and Blank Forms | DA Form 2028 |

TECHNICAL MANUALS

| Procedures for Destruction of Army Equipment to Prevent Enemy Use | TM 750-244-3 |
|--|--------------------|
| (Mobility Equipment Command) | |
| Administrative Storage of Equipment | TM 740-90-1 |
| Preservation, Packaging, and Packing of Military Supplies and Equipment | TM 38-230-2 |
| Op. Unit, DS, GS Maintenance Manual For Trailer, Cargo:1-1/2 T, 2-Wheel M105A2 | TM 9-2330-213-14&P |

PAMPHLETS

Functional User's Manual for the Army Maintenance Management System (TAMMS) DA Pam 738-750

MILITARY SPECIFICATIONS

MIL-T-704 Treatment and Painting of Material
MIL-C-46168 Coating, Aliphatic Polyurethane, Chemical Agent Resistant
MIL-R-7575 Resin, Polyester, Low Pressure Laminating
AR 750-1 Maintenance of Supplies and Equipment

MILITARY STANDARDS

MIL-STD-209 Lifting and Tiedown Provisions

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INTRODUCTION

The Army Maintenance System MAC

This introduction provides a general explanation of all maintenance and repair functions authorized at the two maintenance levels under the Two-Level Maintenance System concept.

The MAC (immediately following the introduction) designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component shall be consistent with the capacities and capabilities of the designated maintenance levels, which are shown on the MAC in column (4) as:

Field – includes two columns, Unit maintenance and Direct Support maintenance. The Unit maintenance column is divided again into two more subcolumns, C for Operator or Crew and O for Unit maintenance.

Sustainment – includes two subcolumns, General Support (H) and Depot (D).

The tools and test equipment requirements (immediately following the MAC) list the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from the MAC.

The remarks (immediately following the tools and test equipment requirements) contain supplemental instructions and explanatory notes for a particular maintenance function.

Maintenance Functions

Maintenance functions are limited to and defined as follows:

- 1. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel.) This includes scheduled inspection and gagings and evaluation of cannon tubes.
- 2. Test. To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards on a scheduled basis, i.e., load testing of lift devices and hydrostatic testing of pressure hoses.
- 3. Service. Operations required periodically to keep an item in proper operating condition, e.g., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases. This includes scheduled exercising and purging of recoil mechanisms. The following are examples of service functions:
 - a. Unpack. To remove from packing box for service or when required for the performance of maintenance operations.
 - b. Repack. To return item to packing box after service and other maintenance operations.
 - c. Clean. To rid item of contamination.

CARGO BED COVER (CBC) M105A2, TYPE II MAINTENANCE ALLOCATION CHART (MAC)

- d. Touch up. To spot paint scratched or blistered surfaces.
- e. Mark. To restore obliterated identification.
- 4. Adjust. To maintain or regulate, within prescribed limits, by bringing into proper or position, or by setting the operating characteristics to specified parameters.
- 5. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.
- 6. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments of test, measuring, and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.
- 7. Remove/Install. To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.
- 8. Paint. To prepare and spray color coats of paint so that the ammunition can be identified and protected. The color indicating primary use is applied, preferably, to the entire exterior surface as the background color of the item. Other markings are to be repainted as original so as to retain proper ammunition identification.
- 9. Replace. To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and assigned maintenance level is shown as the third position code of the Source, Maintenance and Recoverability (SMR) code.
- 10. Repair. The application of maintenance services, including fault location/troubleshooting, removal/installation, disassembly/assembly procedures and maintenance actions to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

NOTE

The following definitions are applicable to the "repair" maintenance function:

Services. Inspect, test, service, adjust, align, calibrate, and/or replace.

Fault location/troubleshooting. The process of investigating and detecting the cause of equipment malfunctioning; the act of isolating a fault within a system or Unit Under Test (UUT).

Disassembly/assembly. The step-by-step breakdown (taking apart) of a spare/functional group coded item to the level of its least component, that is assigned an SMR code for the level of maintenance under consideration (i.e., identified as maintenance significant).

Actions. Welding, grinding, riveting, straightening, facing, machining, and/or resurfacing.

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- 11. Overhaul. That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.
- 12. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of material maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (e.g., hours/miles) considered in classifying Army equipment/components.

Explanation of Columns in the MAC

Column (1) Group Number. Column (1) lists Functional Group Code (FGC) numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the Next Higher Assembly (NHA).

Column (2) Component/Assembly. Column (2) contains the item names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

Column (3) Maintenance Function. Column (3) lists the functions to be performed on the item listed in column (2). (For a detailed explanation of these functions refer to "Maintenance Functions" outlined above).

Column (4) Maintenance Level. Column (4) specifies each level of maintenance authorized to perform each function listed in column (3), by indicating work time required (expressed as manhours in whole hours or decimals) in the appropriate subcolumn. This work time figure represents the active time required to perform that maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function varies at different maintenance levels, appropriate work time figures are to be shown for each level. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time, and quality assurance time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the MAC. The symbol designations for the various maintenance levels are as follows:

Field:

- C Operator or Crew maintenance
- O Unit maintenance
- F Direct Support maintenance

Sustainment:

- L Specialized Repair Activity
- H General Support maintenance
- D Depot maintenance

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NOTE

The "L" maintenance level is not included in column (4) of the MAC. Functions to this level of maintenance are identified by work time figure in the "H" column of column (4), and an associated reference code is used in the REMARKS column (6). This code is keyed to the remarks and the SRA complete repair application is explained there.

Column (5) Tools and Equipment Reference Code. Column (5) specifies, by code, those common tool sets (not individual tools), common Test, Measurement and Diagnostic Equipment (TMDE), and special tools, special TMDE and special support equipment required to perform the designated function. Codes are keyed to the entries in the tools and test equipment table.

Column (6) Remarks Code. When applicable, this column contains a letter code, in alphabetic order, which is keyed to the remarks table entries.

Explanation of Columns in the Tools and Test Equipment Requirements

Column (1) - Tool or Test Equipment Reference Code. The tool or test equipment reference code correlates with a code used in column (5) of the MAC.

Column (2) - Maintenance Level. The lowest level of maintenance authorized to use the tool or test equipment.

Column (3) - Nomenclature. Name or identification of tool or test equipment.

Column (4) - National Stock Number (NSN). The NSN of the tool or test equipment.

Column (5) - Tool Number. The manufacturer's part number.

Explanation of Columns in Remarks

Column (1) - Remarks Code. The code recorded in column (6) of the MAC.

Column (2) - Remarks. This column lists information pertinent to the maintenance function being performed as indicated in the MAC.

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Table 0021 00-1. Maintenance Allocation Chart (MAC) for Cargo Bed Cover (CBC) M105A2 Trailer, Type II

| (1) | (2) | (3) | | | (4) | | | (5) | (6) |
|-----------------|---|--------------------------------|-------------------|------|-------------------|---------------------|-----------------|-----------|------------------|
| GROUP NUMBER | COMPONENT/ ASSEMBLY | MAINTENANCE FUNCTION | MAINTENANCE LEVEL | | | TOOLS AND EQUIPMENT | REMARKS CODE | | |
| | | | | FIEL | | SUSTAIN | MENT | REFERENCE | |
| | | | | TIN | DIRECT SUPPORT | GENERAL SUPPORT | DEPOT | CODE | |
| | | | С | 0 | F | Н | D | | |
| 00 | CBC ASSY | Inspect Repair Replace Service | 0.6 | 3.0 | 4.0 | | | 1 | A D B C |
| 01 | DOOR ASSY | Inspect Repair Replace | 0.2 | 1.0 | | | | 1, 2, 3 | A D |
| 0101 | DOOR, UPPER | Inspect Repair Replace | 0.1 | 0.5 | 2.0 | | | | E |
| 0102 | DOOR, LOWER | Inspect Repair Replace | 0.1 | 0.5 | 2.0 | | | | F |
| 02 | 2-WAY VENTILATOR | Inspect Replace | 0.1 | 0.5 | | | | 1 | |
| 03 | PLATE, ACCESS (ELECT. CABLE PORT) | Inspect Replace | 0.1 | 0.5 | | | | 1 | G |
| 04 | STEP, FOLDING | Inspect Replace Service | 0.1 | 0.5 | | | | 1 | С |
| 05 | HANDLE, CHEST | Inspect Replace Service | 0.1 0.1 | 0.5 | | | | 1 | С |

Table 0021 00-2. Tools and Test Equipment for Cargo Bed Cover (CBC) M105A2 Trailer, Type II

| (1) TOOL OR TEST EQUIPMENT REFERENCE CODE | (2) MAINTENANCE LEVEL | (3) NOMENCLATURE | (4) NATIONAL STOCK NUMBER | (5) TOOL NUMBER |
|---|-----------------------------|--|---------------------------------|--------------------|
| 1 | O, F | Tool Kit, General Mechanics | 5180-00-177-7033 | |
| 2 | O, F | Riveter, Blind, Hand | 5120-01-289-4310 | |
| 3 | O, F | Drill, Electric, Portable, ¼" CAP, with Drill Bits | 5130-00-561-1389 | |

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Table 0021 00-3. Remarks for Cargo Bed Cover (CBC) M105A2 Trailer, Type II

| (1) REMARKS CODE | (2) REMARKS |
|------------------------|---|
| Α | Perform Preventive Maintenance Checks and Services (PMCS) |
| В | Remove and Replace Door Holder |
| С | Lubrication Required for Step, Folding, Pivot Points, Contact Surfaces (Annually) |
| D | Fiberglass Repair |
| E | Remove and Replace Hinge; Door, Upper; Lock, 2-Point; Bar, Lock |
| F | Remove and Replace Hinge; Door, Lower; Lock, 3-Point; Plate, Striker |
| G | Remove and Replace Footman's Loop, Hook and Tie Down Rubber |
| Н | Remove and Replace Access Plate, Cable Boot and Lanyard |

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SCOPE

This RPSTL lists and authorizes spare and repair parts; special tools; special test, measurement and diagnostic equipment (TMDE); and other special support equipment required for performance of unit and direct support maintenance of the CBC. It authorizes the requisitioning, issue, and disposition of spares, repair parts, and special tools as indicated by the source, maintenance, and recoverability (SMR) codes.

GENERAL

In addition to this section, this RPSTL is divided into the following sections:

Repair Parts List Work Packages. Work packages containing lists of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. These work packages also include parts with must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Sending units, brackets, filters and bolts are listed with the component they mount on. Bulk materials are listed by item name in FIG. BULK at the end of the work packages. Repair part kits are listed separately in their own functional group and work package. Repair parts for reparable special tools are also listed in a separate work package. Items listed are shown on the associated illustrations.

Special Tools List Work Packages. Work packages containing lists of special tools, special TMDE and special support equipment authorized by this RPSTL (as indicated by Basis of Issue (BOI) information in the DESCRIPTION AND USABLE ON CODE (UOC) column). Tools that are components of common tool sets and/or Class VII are not listed.

Cross-Reference Indexes Work Packages. There are no cross-reference indexes work packages in this RPSTL.

EXPLANATION OF COLUMNS IN THE REPAIR PARTS LIST AND SPECIAL TOOLS LIST (RPSTL) WORK PACKAGES

ITEM NO. (Column (1)). Indicates the number used to identify items called out in the illustration.

SMR CODE (Column (2)). The SMR code containing supply/requisitioning information, maintenance level authorization criteria and disposition instruction, as shown in the following breakout:

| Source Code | Maintenance Code | | Recoverability Code |
|-------------------------------|---|--|---|
| | | | |
| XX | | XX | Χ |
| | | | |
| 1st two Positions: How to get | 3rd position Who can install replace or | 4th position Who can do complete | 5th position: Who determines disposition action |
| an item | use the item | repair* on the item | on unserviceable items |

^{*}Complete Repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

Source Code. The source code, tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanation of source codes follows.

| Source | e Code | Explanation | |
|---|--|---|--|
| PA PB PC PD | | Stock items; use the applicable NSN to request/requisition items with these source codes. They are authorized to the level indicated by the code entered in the third position of the SMR code. | |
| PE PF PG | | NOTE Items coded PC are subject to deterioration. | |
| KD KF KB | | Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance level indicated in the 3rd position of the SMR code. The complete kit must be requisitioned and applied. | |
| AVUM MF-Ma AVIM MH-Ma Level ML-Ma | ade at unit/ // Level de at DS/ Level ade at GS de at SRA ade at Depot | Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material that is identified by the P/N in the DESCRIPTION AND USABLE ON CODE (UOC) column and listed in the Bulk Material group work package of the RPSTL. If the item is authorized to you by the 3rd position code of the SMR code, but the source code indicates it is made at a higher level, order the item from the higher level of maintenance. | |
| Unit/A AF-Ass DS/A\ AH-Ass GS le AL-Ass SRA | sembled by | Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the level of maintenance indicated by the source code. If the third position code of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher level, order the item from the higher level of maintenance. | |
| XA | Do not requisiti NOTE below.) | on an "XA" coded item. Order its next higher assembly. (Also, refer to the | |
| XB | If an item is not | available from salvage, order it using the CAGEC and P/N. | |
| XC | Installation drawings, diagrams, instruction sheets, field service drawings; identified by manufacturer's P/N. | | |

XD Item is not stocked. Order an XD-coded item through normal supply channels using the CAGEC and P/N given, if no NSN is available.

NOTE

Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 750-1.

Maintenance Code. Maintenance codes tell you the level(s) of maintenance authorized to use and repair support items. The maintenance codes are entered in the third and fourth positions of the SMR Code as follows:

Third Position: The maintenance code entered in the third position tells you the lowest maintenance level authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to the following levels of maintenance:

Maintenance

| <u>Code</u> | Application/Explanation |
|-------------|--|
| С | Crew or operator maintenance done within unit/AVUM maintenance. |
| 0 | Unit level/AVUM maintenance can remove, replace, and use the item. |
| F | Direct support/AVIM maintenance can remove, replace, and use the item. |
| Н | General support maintenance can remove, replace, and use the item. |
| L | Specialized repair activity can remove, replace, and use the item. |
| D | Depot can remove, replace, and use the item. |

Fourth Position. The maintenance code entered in the fourth position tells you whether or not the item is to be repaired and identifies the lowest maintenance level with the capability to do complete repair (perform all authorized repair functions).

NOTE

Some limited repair may be done on the item at a lower level of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.

Maintenance

| <u>Code</u> | Application/Explanation |
|-------------|--|
| 0 | Unit/AVUM is the lowest level that can do complete repair of the item. |
| F | Direct support/AVIM is the lowest level that can do complete repair of the item. |

| CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II |
|---|
| REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL) |

- H General support is the lowest level that can do complete repair of the item.

 L Specialized repair activity is the lowest level that can do complete repair of the item.

 D Depot is lowest level that can do complete repair of the item.

 Z Non-reparable. No repair is authorized.
- B No repair is authorized. No parts or special tools are authorized for the maintenance of a "B" coded item. However, the item may be reconditioned by adjusting, lubricating, etc., at the user level.

Recoverability Code. Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is shown in the fifth position of the SMR Code as follows:

Recoverability

| Code | Application/Explanation |
|------|---|
| Z | Non-reparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in 3rd position of SMR Code. |
| 0 | Reparable item. When uneconomically reparable, condemn and dispose of the item at the unit level. |
| F | Reparable item. When uneconomically reparable, condemn and dispose of the item at the direct support level. |
| Н | Reparable item. When uneconomically reparable, condemn and dispose of the item at the general support level. |
| D | Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal of item are not authorized below depot level. |
| L | Reparable item. Condemnation and disposal not authorized below Specialized Repair Activity (SRA). |
| Α | Item requires special handling or condemnation procedures because of specific reasons (such as precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions. |

NSN (Column (3)). The NSN for the item is listed in this column.

CAGEC (Column (4)). The Commercial and Government Entity Code (CAGEC) is a 5-digit code which is used to identify the manufacturer, distributor, or Government agency/activity that supplies the item.

PART NUMBER (Column (5)). Indicates the primary number used by the manufacturer, (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When you use an NSN to requisition an item, the item you receive may have a different P/N from the item listed.

DESCRIPTION AND USABLE ON CODE (UOC) (Column (6)). This column includes the following information:

- 1. The federal item name and, when required, a minimum description to identify the item.
- P/Ns of bulk materials are referenced in this column in the line entry to be manufactured or fabricated.
- 3. Hardness Critical Item (HCI). A support item that provides the equipment with special protection from electromagnetic pulse (EMP) damage during a nuclear attack.
- 4. The statement END OF FIGURE appears just below the last item description in Column (6) for a given figure in both the Repair Parts List and Special Tools List work packages.

QTY (Column (7)). The QTY (quantity per figure) column indicates the quantity of the item used in the breakout shown on the illustration/figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column instead of quantity indicates that the quantity is a variable and quantity may change from application to application.

EXPLANATION OF CROSS-REFERENCE INDEXES WORK PACKAGES FORMAT AND COLUMNS

1. National Stock Number (NSN) Index Work Package.

STOCK NUMBER Column. This column lists the NSN in National Item Identification Number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN.

| NSN | When using this column to locate an item, ignore the first |
|--------------------------|--|
| 5305- <u>01-574-1467</u> | four digits of the NSN. However, the complete NSN should |
| NIIN | be used when ordering items by stock number. |

FIG. Column. This column lists the number of the figure where the item is identified/located. The figures are in numerical order in the repair parts list and special tools list work packages.

ITEM Column. The item number identifies the item associated with the figure listed in the adjacent FIG. column. This item is also identified by the NSN listed on the same line.

2. Part Number (P/N) Index Work Package. P/Ns in this index are listed in ascending alphanumeric sequence (i.e. vertical arrangement of letter and number combinations which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9, and each following letter or digit in like order).

PART NUMBER Column. Indicates the P/N assigned to the item.

FIG. Column. This column lists the number of the figure where the item is identified/located in the repair parts list and special tools list work packages.

ITEM Column. The item number is the number assigned to the item as it appears in the figure referenced in the adjacent figure number column.

SPECIAL INFORMATION.

None required.

HOW TO LOCATE REPAIR PARTS.

1. When NSNs or P/Ns Are Not Known.

First. Using the table of contents, determine the assembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.

Second. Find the figure covering the functional group or the subfunctional group to which the item belongs.

Third. Identify the item on the figure and note the number(s).

Fourth. Look in the repair parts list for the figure and time numbers. The NSNs and part numbers are on the same line as the associated item numbers.

2. When NSN is known.

First. If you have the NSN, look in the STOCK NUMBER column of the NSN index work package. The NSN is arranged in NIIN sequence. Note the figure and item number next to the NSN.

Second. Turn to the figure and locate the item number. Verify that the item is the one you are looking for.

3. When P/N is known.

First. If you have the P/N and not the NSN, look in the PART NUMBER column of the P/N index work package. Identify the figure and item number.

Second. Look up the item on the figure in the applicable repair parts list work package.

TM 10-5411-232-13&P

| CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II |
|---|
| REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL) |

0022 00

ABBREVIATIONS.

No uncommon abbreviations are used in this RPSTL.

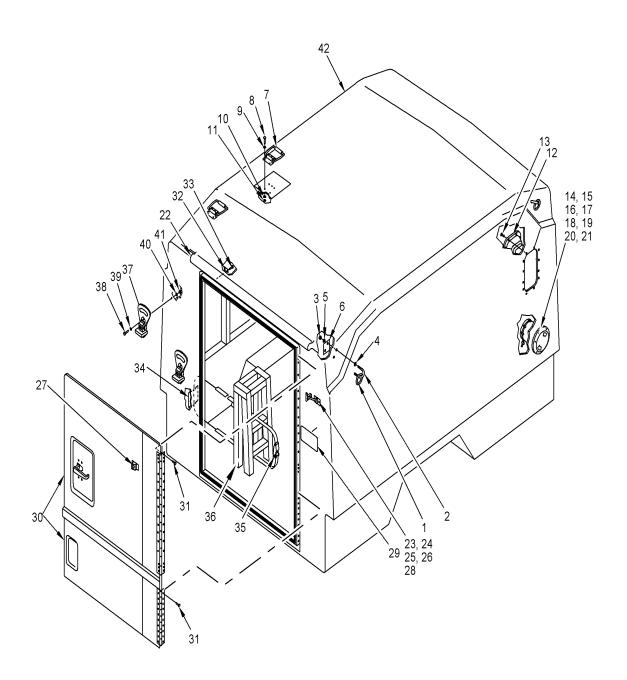


Figure 1. Group 00 CBC 0023 00-(1 Blank)/2

| (1) ITEM | (2) SMR | (3) | (4) | (5) PART | (6) DESCRIPTION AND USABLE ON CODE | (7) |
|-------------|----------------|------------------|----------------|----------------------------|--|----------------|
| NO. | CODE | NSN | CAGEC | NUMBER | (UOC) | QTY |
| | | | | | (555) | |
| | | | | | GROUP 00 CBC | |
| | PDOFF | | 51489 | 104008 | CARGO BED COVER, M105A2 | REF |
| 1 | PAOZZ | | 51489 | 700407 | . RING, SS | 4 |
| 2 | PAOZZ | | 51489 | 700406 | . U-BOLT, 5/16-18 | 4 |
| 3 | PAOZZ | | | MS51971-2 | . NUT, 5/16-18 UNC, CRES | 16 AP |
| 4 | PAOZZ | | | MS15795-812 | . WASHER, FLAT, 5/16 CRES | 16 AP |
| 5 | PAOZZ | | | MS35338-140 | . WASHER, LOCK, 5/16 CRES | 16 AP |
| 6 | PAOZZ | | 51489 | 104039 | . PLATE, BACKING | 4 |
| 7 | PAOZZ | | 51489 | 700272 | . HANDLE, CHEST | 2 |
| 8 | PAOZZ | | | MS51957-64 | . SCREW, 10-24, .88LG, CRES | 10 AP |
| 9 | PAOZZ | | | MS15795-808 | . WASHER, FLAT, #10, CRES | 10 AP |
| 10 | D4077 | | | MS35378-138 | . WASHER, LOCK, #10, CRES | 10 AP |
| 11 | PAOZZ PAOZZ | 5444 04 404 5000 | E4 400 | MS17830-3C | . NUT, SELF-LOCKING, 10-24 CRES | 10 AP |
| 12 13 | PAOZZ | 5411-01-481-5892 | 51489 | 104050 | . VENTILATOR, 2 WAY | 24 AD |
| 13A | PAOZZ | | | MS51957-64 | . SCREW, 10-24, .63 LG, CRES . WASHER, FLAT, NO. 10, CRES | 24 AP 24 AP |
| 13A 13B | FAULL | | | MS15795-808 MS35649-204 | . NUT, 10-24, CRES | 24 AP 24 AP |
| 14 | PAOZZ | | | MS25083-2CC28 | . LANYARD | 24 AF |
| 15 | PAOZZ | | | MS51957-26 | . SCREW, PH, 6-32 X .25 LG, CRES | 2 AP |
| 16 | PAOZZ | | 00229 | 18-4455 | BOOT, CABLE | 2 |
| 17 | PAOZZ | | 0MLS5 | AP40W | . PLATE, ACCESS | 2 |
| 18 | PAOZZ | | 0111200 | MS51957-64 | . SCREW, 10-24, .88 LG, CRES | 12 AP |
| 19 | PAOZZ | | | MS15795-808 | . WASHER, FLAT, NO. 10, CRES | 12 AP |
| 20 | | | | MS35338-138 | . WASHER, LOCK, NO. 10, CRES | 12 AP |
| 21 | | | | MS35649-204 | . NUT, 10-24, CRES | 12 AP |
| 22 | XD | | 51489 | 104017 | . HOOD, RAIN | 1 |
| 23 | PAOZZ | 5340-00-302-1840 | 51489 | 104054 | . HOLDER, DOOR, HEAVY DUTY | 1 |
| 24 | PAOZZ | | | MS51957-64 | . SCREW, 10-24, .88 LG, CRES | 8 AP |
| 25 | PAOZZ | | | MS15795-808 | . WASHER, FLAT, NO. 10, CRES | 8 AP |
| 26 | PAOZZ | | | MS17830-3C | . NUT, SELF-LOCKING, 10-24 CRES | 8 AP |
| 27 | PAOZZ | | 3A054 | 1723A1 | . CLIP, SPRING | 1 |
| 28 | PAOZZ | | 07707 | AD66H | . RIVET | 1 AP |
| 29 | PAOZZ PAOFF | | 51489 51480 | 104022 | . PLATE, ID | 1 |
| 30 31 | PAOFF | | 51489 07707 | 104012 AD66H | . DOOR ASSY . RIVET | 1 32 AP |
| 32 | PAOZZ | | 51489 | 103993-1 | . RIVET . PLATE, STRIKE | 32 AP 1 |
| 33 | PAOZZ | | 07707 | AD66H | . RIVET | 2 AP |
| 34 | I AULL | | 51489 | 104008-5 | . UDR*, 10 X 5, 2 LAYER | 2 AF |
| 35 | PAOZZ | | 51489 | 104021 | . STRAP ASSY, RATCHET, LADDER | 1 |
| 36 | PAOZZ | 5440-01-481-6010 | 51489 | 104049 | . LADDER, 24 INCH | 1 |
| | | | | | , | - |
| | | | | | | |

TM 10-5411-232-13&P

CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II GROUP 00 CARGO BED COVER PARTS LIST

0023 00

| (1) ITEM | (2) SMR | (3) | (4) | (5) PART | (6) DESCRIPTION AND USABLE ON CODE | (7) |
|-------------|----------------|-------------------|---------------|-----------------------|--|-----------|
| NO. | CODE | NSN | CAGEC | NUMBER | (UOC) | QTY |
| | D.4.0.77 | 5.440.00.004.5005 | 5 4400 | 101055 | OTED FOLDING | |
| 37 38 | PAOZZ PAOZZ | 5410-00-984-5065 | 51489 | 104055 MS35307-336 | STEP, FOLDING | 2 4 AP |
| 39 | TAOZZ | | | AN970-5 | . SCREW, HEX, 5/16-18, 1.25 LG, CRES . WASHER, FLAT, WOOD, 5/16, CRES | 4 AP |
| 40 | PAOZZ | | | MS35338-140 | . WASHER, LOCK, 5/16 | 4 AP |
| 41 | | | | MS51971-2 | . NUT, 5/16-18, CRES | 4 AP |
| 42 | XDOFF | | 51489 | 104009 | . CBC SUBASSY (SHELL) | 1 |
| | | | | | | |
| | | | | | | |
| | *UNIDI | RECTIONAL ROVING | | | | |
| | | | | | | |

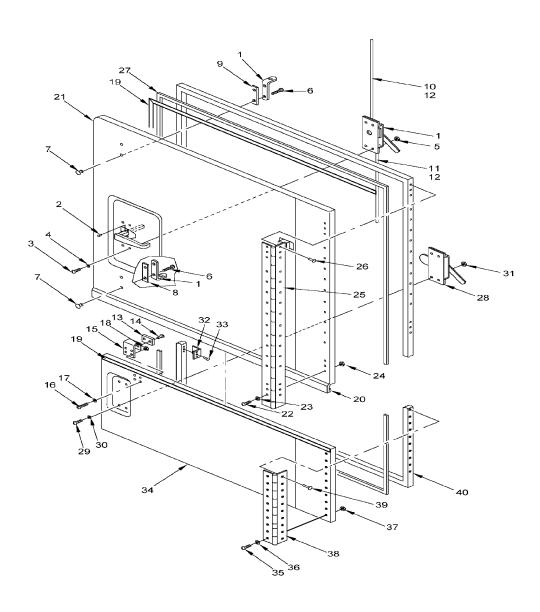


Figure 2. Group 01 CBC

0024 00-(1 Blank)/2

TM 10-5411-232-13&P

CARGO BED COVER (CBC) M105A2 TRAILER, TYPE II GROUP 01 CARGO BED COVER PARTS LIST

0024 00

| (1) ITEM | (2) SMR | (3) | (4) | (5) PART | (6) DESCRIPTION AND USABLE ON CODE | (7) |
|-------------|----------------|------------------|----------------|--------------------------|--|--------------|
| NO. | CODE | NSN | CAGEC | NUMBER | (UOC) | QTY |
| | | | | | | |
| | | | | | GROUP 01 CBC | |
| | PAOFF | | 51489 | 104012 | DOOR ASSY M105A2 | REF |
| 1 | PAOFF | 5340-01-481-6503 | 51489 | 104052 | .LOCK, DOOR, 2 POINT | 1 |
| 2 | PAOFF | | 07707 | AK66H | .RIVET | 3 AP |
| 3 | PAOFF | | | MS51957-83 | .SCREW, PH, 1/4-20 X 1.0 LG, CRES | 4 AP |
| 4 | | | | MS157095- 810 | . WASHER, FLAT | 4 AP |
| 5 | | | | MS17830-46 | . NUT, SELF LOCKING, 1/4-20, CRES | 4 AP |
| 6 | | | | MS51957-70 | . SCREW, PH, 10-24 X 1.75 LG, CRES | 4 AP |
| 7 | PAOFF | | 3A054 | 90598A011 | . NUT, PROPELLER, CRES | 4 AP |
| 8 | PAOFF | | 51489 | 104000-1 | . SPACER | 1 |
| 9 | PAOFF | | 51489 | 104000-5 | . SPACER | 1 |
| 10 | PAOFF | | 51489 | 104038-3 | . BAR, LOCK | 1 |
| 11 | PAOFF | | 51489 | 104038-5 | . BAR, LOCK | 1 |
| 12 | PAOFF | | =4.400 | MS24665-368 | . PIN, COTTER | 2 AP |
| 13 | PAOZZ | | 51489 | 103993-1 | . PLATE, STRIKER | 1 |
| 14 | PAOFF PAOFF | | 07707 | AD86H | . RIVET | 2 AP |
| 15 16 | PAOFF | | 51489 | 103992 MS51957-69 | . PLATE, STRIKER . SCREW, PH, 10-24, 1.5 LG, CRES | 1 4 AP |
| 17 | PAOFF | | | MS15795-808 | . WASHER, FLAT, NO. 10, CRES | 4 AP |
| 18 | PAOZZ | | | MS17830-3C | . NUT, SELF LOCKING, 10-24, CRES | 4 AP |
| 19 | TAOLL | | 51489 | 700409 | . RUBBER, FOAM, 1/8 X 1.0 | 85.0 " |
| 20 | PAOFF | | 51489 | 104036-7 | . GASKET | 1 |
| 21 | PAOFF | 2510-01-481-6047 | 51489 | 104013 | . DOOR, UPPER | 1 |
| 22 | PAOFF | | | MS51957-83 | . SCREW, PH, 1/4-20 X 1.0 LG, CRES | 16 AP |
| 23 | | | | MS15795-810 | . WASHER, FLAT | 16 AP |
| 24 | | | 3A054 | 90101A230 | . NUT, SELF LOCKING, 10-24, THIN, | 16 AP |
| 0.5 | PAOFF | | 54.400 | 404045 | CRES | |
| 25 26 | PAOFF | | 51489 | 104015 | . HINGE, UPPER . RIVET | 1 16 AP |
| 27 | PAOFF | | 07707 51489 | AD86H 104036-1 | . GASKET | 16 AP |
| 28 | PAOFF | 5340-01-481-6506 | 51489 | 104053 | . LOCK, DOOR, 3 POINT | 1 |
| 29 | PAOFF | 3340-01-401-0300 | 31403 | MS51957-83 | . SCREW, PH, 1/4-20 X 1.0 LG, CRES | 4 AP |
| 30 | | | | MS15795-810 | . WASHER, FLAT | 4 AP |
| 31 | | | 3AD54 | 90101A230 | . NUT, SELF LOCKING, 10-24, THIN, | 4 AP |
| | B. 6 === | | | | CRES | |
| 32 | PAOFF | | 51489 | 103708 | . STRIKE, TYPE B | 1 |
| 33 | PAOFF | 0540 04 404 0070 | 07707 | SD812BS | . RIVET | 3 AP |
| 34 | PAOFF | 2510-01-481-6073 | 51489 | 104014 | DOOR, LOWER | 1 |
| 35 36 | PAOFF | | | MS51957-83 | . SCREW, PH, 1/4-20 X 1.0 LG, CRES . WASHER, FLAT | 9 AP 9 AP |
| 36 | | | 3A054 | MS15795-810 90101A230 | . NUT, SELF LOCKING, 10-24, THIN, | 9 AP 9 AP |
| | DAOEE | | | | CRES | |
| 38 | PAOFF | | 51489 | 104016 | . HINGE, LOWER | 1 |
| 39 | PAOFF PAOFF | | 07707 | AD86H | . RIVET | 9 AP |
| 40 | FAUFF | | 51489 | 104026 | . FRAME, DOOR | 1 |
| | | | | | | |

END OF FIGURE

INTRODUCTION

Scope

This work package lists COEI and BII for the Cargo Bed Cover (CBC) M105A2 Trailer, Type II to help you inventory items for safe and efficient operation of the equipment.

General

The COEI and BII information is divided into the following lists:

Component of End Item (COEI). This list is for information purposes only and is not authority to requisition replacements. These items are part of the CBC. As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Items of COEI are removed and separately packaged for transportation or shipment only when necessary. Illustrations are furnished to help you find and identify the items.

Basic Issue Items (BII). These essential items are required to place the CBC in operation, operated, and to do emergency repairs. Although shipped separately packaged, BII must be with the CBC during operation and when it is transferred between property accounts. Listing these items is your authority to request/ requisition them for replacement and based on authorization of the end item by the TOE/MTOE. Illustrations are furnished to help you find and identify the items.

Explanation of Columns in the COEI List and BII List

Column (1), Illus Number, gives you the number of the item illustrated.

Column (2), National Stock Number, identifies the stock number of the item to be used for requisitioning purposes.

Column (3), Description, CAGEC, and Part Number, identifies the Federal item name (in all capital letters) followed by a minimum description when needed. The stowage location of COEI is also included in this column. The last line below the description is the CAGEC (commercial and Government entity code) (in parentheses) and the part number.

Column (4), Usable on Code, gives you a code if the item you need is not the same for different models of equipment. These codes are identified below:

| Code | Used on | | |
|------|-------------|--|--|
| PAA | Model XXX | | |
| PAB | Model XXXX | | |
| PAC | Model XXXXX | | |

Column (5), U/M (unit of measure), indicates how the item is issued for the National Stock Number shown in column (2).

Column (6), Qty Rgr, indicates the quantity required.

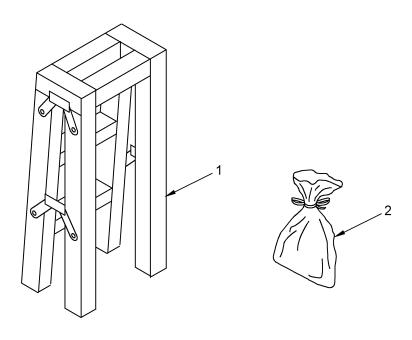


Table 0025 00-1. Components of End Item List (COEI)

| (1) ILLUS NUMBER | (2) NATIONAL STOCK NUMBER | (3) DESCRIPTION CAGEC, AND PART NUMBER | (4) USABLE ON CODE | (5) U/M | (6) QTY RQR |
|------------------------|------------------------------------|---|--------------------------|------------|-------------------|
| 1 | 5440-01-481-6010 | 24-INCH LADDER (mounted inside CBC) (51489) 104049 | FQR | EA | 1 |
| 2 | 5411-01-481-5889 | KIT INSTALLATION HARDWARE (attached to 24-inch ladder) (51489) 104245 | FQR | EA | 1 |

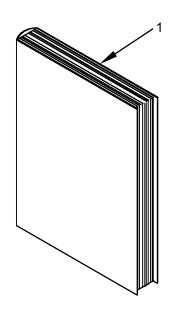


Table 0025 00-2. Basic Issue Items List (BII)

| (1) ILLUS NUMBER | (2) NATIONAL STOCK NUMBER | (3) DESCRIPTION CAGEC, AND PART NUMBER | (4) USABLE ON CODE | (5) U/M | (6) QTY RQR |
|------------------------|------------------------------------|--|--------------------------|------------|-------------------|
| 1 | N/A | (51489) TM 10-5411-232-13&P | | EA | 1 |

INTRODUCTION

Scope

This work package lists expendable and durable items that you will need to operate and maintain the CARGO BED COVER (CBC) M105A2 Trailer, TYPE II. This list is for information only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970, Expendable/Durable Items (Except Medical, Class V Repair Parts, and Heraldic Items), or CTA 8-100, Army Medical Department Expendable/Durable Items.

Explanations of Columns in the Expendable/Durable Items List

Column (1) - Item Number. This number is assigned to the entry in the list and is referenced in the narrative instructions to identify the item (e.g. "using a brush (WP 0019 00").

Column (2) - Level. This column includes the lowest level of maintenance that requires the listed item (C = Operator/Crew).

Column (3) - National Stock Number. This is the NSN assigned to the item which you can use to requisition it.

Column (4) - Item Name, Description, Commercial and Government Entity Code (CAGE), and Part Number (P/N). This column provides the other information you need to identify the item.

Column (5) - Unit of Measure (U/M). This code shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

EXPENDABLE AND DURABLE ITEMS LIST

Table 0026 00-1. Expendable and Durable Items List

| (1) | (2) | (3) | (4) | (5) |
|----------------|-------|-----------------------------|--|-----|
| ITEM NUMBER | LEVEL | NATIONAL STOCK NUMBER | ITEM NAME, DESCRIPTION, CAGE, PART NUMBER | U/M |
| 1 | С | 6810-00-201-0906 | Alcohol, denatured Grade III, 16 ounce bottle (81348) O-E-760 | ВТ |
| 2 | С | | Grease, Mobilux EP023 | QT |
| 3 | С | | Soap | |
| 4 | С | 8020-00-224-8024 | Brush, artist, MTL, ferrule, round tapered point. Type I, camel hair (81348) H-B-118 | EA |
| 5 | С | | Sealing Compound | QT |
| 6 | С | | Paint, sand color (51489) P/N 700500-6 | GL |
| 7 | С | | Paint, camouflage pattern (51489) P/N 104269 | GL |

0026 00-1/(2 Blank)

GLOSSARY

<u>Term</u> <u>Definition</u>

2-Way Ventilator Provides air circulation within the cargo bed cover.

Access Plate When opened, allows electrical cables to be pushed through

the opening to power equipment inside the cargo bed cover.

Cable Boot Opening channel in the cargo bed cover allowing cables to be

pushed through and is opened or closed with the access plate.

Cargo Bed Cover (CBC) A fiberglass enclosure that is mounted on an M105A2 Trailer

and is used to transport equipment.

CBC Shell The cargo bed cover enclosure, including walls, ceiling

and floor.

Chest Handle Provides hand grips when climbing to the roof of the cargo bed

cover.

Curb Side Passenger side of CBC.

Folding Step When extended, allows personnel to climb onto the roof of the

cargo bed cover.

Ladder Used for climbing into the cargo bed cover.

Lanyard Flexible strap that holds the access cover in place when it is

open.

Lifting Ring Used for attaching hoist when lifting cargo bed cover.

Lower Door Assembly Provides a larger area to gain access to the cargo bed cover

when latched together with the upper door assembly.

Rain Hood Slanted portion of roof for deflecting rain.

Road Side Driver side of CBC.

Upper Door Assembly Allows rear access to the cargo bed cover.

GLOSSARY 1/(2 Blank)

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By Order of the Secretary of the Army:

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

Official:

JOEL B. HUDSON Administrative Assistant to the Secretary of the Army 0120002

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These are the instructions for sending an electronic 2028

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: amssbriml@natick.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.

| R | RECOMMENDED CHANGES TO PUBL | | | | | ICATIONS AND | | Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals | | |
|-------------|-----------------------------|----------------|---------------|---------------|--------------|------------------|--|--|--|---------------------------|
| | | | LANK FO | | | | (SC/SM). | and Supply Ca | nalogs/Supply Maridals | 21 October 2003 |
| F | or use of this | form, see AF | R 25-30; th | e proponent | agency is Ol | DISC4. | | | | |
| ĊC | rward to prop | | | , , | , | | FROM: (Activity and location) (Include ZIP Code) | | | |
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FROM: (Activity and location) (Include ZIP Code) DATE TO: (Forward direct to addressee listed in publication) COMMANDER PFC Jane Doe U.S. ARMY TANK-AUTOMOTIVE AND ARMAMENT COMMAND 21 October 2003 CO A 3rd Engineer BR ATTN: AMSTA-LC-CECT Ft. Leonardwood, MO 63108 15 KANSAS STREET NATICK, MA 01760-5052 PART II - REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS **PUBLICATION NUMBER** DATE TITLE 30 October 2002 Unit Manual for Ancillary Equipment for Low TM 10-1670-296-23&P Velocity Air Drop Systems TOTAL NO. OF REFERENCE **FIGURE PAGE** COLM LINE NATIONAL ITEM **MAJOR ITEMS** STOCK NUMBER SUPPORTED NO. NO. RECOMMENDED ACTION NO. NO. NO. NO. 0066 00-1 Callout 16 in figure 4 is pointed 4 to a D-Ring. In the Repair Parts List key for figure 4, item 16 is called a Snap Hook. Please correct one or the other. PART III - REMARKS (Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)

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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 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 | 5/9 (after | Celsius | _C |
|----|-------------|-----------------|-------------|----|
| | temperature | subtracting 32) | temperature | |

PIN: 079152-000