AIRDROP OF SUPPLIES AND EQUIPMENT:
RIGGING 3/4-Ton Cargo Trailers

JULY 2003

DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

HEADQUARTERS
DEPARTMENT OF THE ARMY
DEPARTMENT OF THE AIR FORCE
Airdrop of Supplies and Equipment
Rigging 3/4-Ton Cargo trailers

TABLE OF CONTENTS

PREFACE .............................................................................................................. ii

INTRODUCTION .................................................................................................. iii

Rigging the M101, M101A1 or M101A2, 3/4-Ton Cargo Trailers with Accompanying Loads

REFERENCE TABLES

Description of Load .......................................................................................... 1
Preparing Platform .......................................................................................... 1
Positioning and Lashing Accompanying Loads on Platform ......................... 3
Building and Placing Honeycomb Stacks ...................................................... 13
Preparing the Trailer .................................................................................... 17
Stowing Accompanying Load and Trailer Components in Trailer ............. 19
Securing Trailer Support Stand and Installing Lifting Slings ..................... 30
Positioning Trailer ....................................................................................... 31
Lashing Trailer ............................................................................................... 32
Building and Installing Parachute Stowage Platform and Wooden Support ... 34
Installing and Safety Tying Suspension Slings ............................................ 36
Stowing Cargo Parachutes .......................................................................... 37
Preparing and Installing Extraction System ............................................... 39
Installing Parachute Release System ............................................................ 39
Installing Provisions for Emergency Restraints ......................................... 40
Placing Extraction Parachute ........................................................................ 40
Marking Rigged Load ................................................................................... 40
Equipment Required ..................................................................................... 40

Glossary ......................................................................................................... Glossary-1
References ..................................................................................................... References-1

Distribution Restrictions: Approved for public release; distribution is unlimited.

*This publication supersedes FM 10-513/TO 13C7-3-51, dated 25 June 1979
Preface

This manual tells and shows how to prepare and rig the M101, M101A1 and M101A2 trailers for low velocity airdrop from a C-130, C-141, C-17 and C-5 aircraft.

User Information

The proponent of this publication is HQ TRADOC. You are encouraged to report any errors or omissions and to suggest ways of making this a better manual. Army personnel, send your comments on DA Form 2028 directly to:

Director
Aerial Delivery and Field Services Department
USA Quartermaster Center and School
1010 Shop Road
Fort Lee, Virginia 23801-1502

Air Force personnel, send your reports on AFTO Form 22 through:

Headquarters
Air Mobility Command (AMC/DOKT)
402 Scott Drive
Scott AFB, Illinois 62225-5302

Air Force personnel in Special Operations Command, send your reports on AFTO Form 22 through:

HQ AFSOC/DOXT
100 Bartley Street, Suite 260
Hurlburt Field, Florida 32544-5273

to:

Director
Aerial Delivery and Field Services Department
USA Quartermaster Center and School
1010 Shop Road
Fort Lee, Virginia 23801-1502

Also send information copy of AFTO Form 22 to:

WR-ALC/LKCB
460 Richard Ray Blvd Suite 221
Robins AFB, Georgia 31098-1640
Introduction

This manual shows the equipment and gives the steps to rig the M101, M101A1 and M101A2 3/4-ton, two-wheeled trailers. The trailers are rigged for low-velocity airdrop from the C-130, C141, C-17 and C-5 aircraft on a type V platform.

CAUTION

Only ammunition listed in FM 10-500-53/MCRP 4-3.81/TO 13C7-18-41 may be airdropped.
RIGGING THE M101, M101A1 OR M101A2, 3/4-TON CARGO TRAILER WITH ACCOMPANYING LOADS

DESCRIPTION OF LOAD

1. The M101, M101A1 or M101A2, 3/4-ton cargo trailer (Figure 1) with accompanying loads is rigged on a 12-foot type V platform for low velocity airdrop. The load shown is rigged with accompanying loads consisting of 22 boxes of 105-millimeter ammunition and weighing 2,440 pounds. The 3/4-ton cargo trailer is rigged with one or two G-11B cargo parachutes depending on the rigged weight. The 3/4-ton cargo trailer may also be rigged with an accompanying load weighing a maximum of 1,500 pounds is stowed in the trailer. Additional accompanying loads may be stowed on the platform as long as the maximum rigged weight does not exceed 8,000 pounds. The unrigged trailer weighs 1,340 pounds. It is 147 inches long and 71 inches wide. The height of the trailer is 82 inches, reducible to 51 inches.

PREPARING PLATFORM

2. Prepare a 12-foot type V platform according to TM 10-1670-268-20&P/TO 13C7-52-22 and as shown in Figure 2.

Figure 1. M101A2, 3/4-Ton Cargo Trailer
Step:

1. Install a tandem link on the front of each platform side rail using holes 1, 2 and 3.
2. Install a clevis on bushings 1 and 2 on each front tandem link.
3. Install a tandem link on the rear of each platform side rail using holes 22, 23 and 24.
4. Install a clevis on bushings 2, 3 and 4 on each rear tandem link.
5. Starting at the front of each platform side rail, install clevises on the bushings bolted on holes 10, 11, 15, 18, and 20.
6. Starting at the front of the platform, number the clevises 1 through 10 on the right side and 1A through 10A on the left side.
7. Starting at the front of the platform, label the two tie-down rings on the first five panels A and B from right to left. Label the four tie-down rings on the last panel A, B, C, and D from right to left. Starting with the first panel, number the tie-down rings 1 through 6.

Figure 2. Platform Prepared