

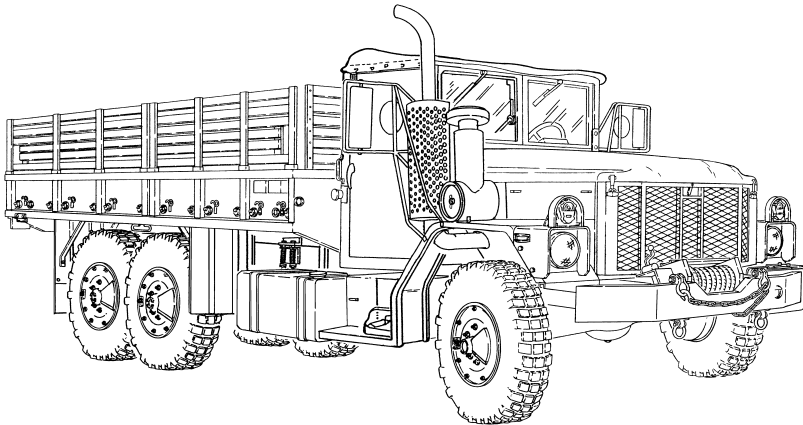
**ARMY TM 9-2320-386-24-1-1
AIR FORCE TO 36A12-1B-1122-1**

**TECHNICAL MANUAL
EXTENDED SERVICE PROGRAM
(ESP)**

**UNIT, DIRECT SUPPORT,
AND GENERAL SUPPORT
MAINTENANCE MANUAL**

FOR

**2-1/2-TON, 6X6, M44A3
SERIES TRUCKS (DIESEL)**



**TRUCK, CARGO: 2-1/2-TON, 6X6
M35A3 (2320-01-383-2047) (EIC: BHK);
(2320-01-383-3850) (EIC: BHL)**

**M35A3C (2320-01-383-2050) (EIC: BHP);
(2320-01-383-2049) (EIC: BHQ)**

**M36A3 (2320-01-383-2048) (EIC: BHM);
(2320-01-383-2046) (EIC: BHN).**

HOW TO USE THIS MANUAL

GENERAL INFORMATION

CHAPTER 1
DESCRIPTION AND THEORY
OF OPERATION

CHAPTER 2
UNIT TROUBLESHOOTING PROCEDURES

CHAPTER 3
UNIT MAINTENANCE INSTRUCTIONS

CHAPTER 4
DIRECT SUPPORT TROUBLESHOOTING

CHAPTER 5
DIRECT SUPPORT MAINTENANCE

CHAPTER 6
GENERAL SUPPORT MAINTENANCE

CHAPTER 7
GENERAL MAINTENANCE

CHAPTER 8
SHIPMENT AND LIMITED STORAGE

CHAPTER 9
SUPPORTING INFORMATION

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

HEADQUARTERS, DEPARTMENTS OF THE ARMY AND AIR FORCE

1 MAY 2001

**TECHNICAL MANUAL
NO. 9-2320-386-24-1-1**

**TECHNICAL ORDER
NO. 36A12-1B-1122-1**

**HEADQUARTERS,
DEPARTMENT OF THE ARMY
AND AIR FORCE
WASHINGTON, D.C., 1 May 2001**

**EXTENDED SERVICE PROGRAM (ESP)
TECHNICAL MANUAL
UNIT, DIRECT SUPPORT, AND
GENERAL SUPPORT MAINTENANCE
FOR
2-1/2-TON, 6X6, M44A3 SERIES TRUCKS**

TRUCK	MODEL	EIC	NSN W/O WINCH	NSN W/WINCH
Cargo, Fixed Side	M35A3	BHK	2320-01-383-2047	
Cargo, Fixed Side	M35A3	BHL		2320-01-383-3850
Cargo, Drop Side	M35A3C	BHP	2320-01-383-2050	
Cargo, Drop Side	M35A3C	BHQ		2320-01-383-2049
Cargo, Long Wheelbase	M36A3	BHM	2320-01-383-2048	
Cargo, Long Wheelbase	M36A3	BHN		2320-01-383-2046

This manual will provide maintenance instructions for ESP vehicles.

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this publication. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Submit your DA Form 2028 (Recommended Changes to Equipment Technical Publications), through the Internet, on the Army Electronic Product Support (AEPS) website. The Internet address is <http://aeps.ria.army.mil>. If you need a password, scroll down and click on "ACCESS REQUEST FORM". The DA Form 2028 is located in the ONLINE FORMS PROCESSING section of the AEPS. Fill out the form and click on SUBMIT. Using this form on the AEPS will enable us to respond quicker to your comments and better manage the DA Form 2028 program. You may also mail, fax or E-mail your letter or DA Form 2028 direct to: AMSTA-LC-CI/TECH PUBS, TACOM-RI, 1 Rock Island Arsenal, Rock Island, IL 61299-7630. The email address is TACOM-TECH-PUBS@ria.army.mil. The fax number is DSN 793-0726 or Commercial (309) 782-0726.

This manual is published in two parts. TM 9-2320-386-24-1-1 contains front matter and chapters 1, 2, and 3, (consisting of work packages 0001 00 through 0288 00). TM 9-2320-386-24-1-2 contains chapters 4 through 9 (consisting of work packages 0289 00 through 0395 00) and rear matter.

This manual contains a table of contents and alphabetical index for both volumes.

This publication supersedes TM 9-2320-386-24 dated 26 January 1996.

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

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HOW TO USE THIS MANUAL

ABOUT YOUR MANUAL

Spend some time looking through this manual. You will find that it has a new, different look, designed in a work package format.

Features added to improve the convenience of this manual and increase your efficiency are:

- a. **Accessing Information** – These include physical entry features such as the bleed-to-edge indicators on the cover and edge of the manual. Extensive troubleshooting guides for specific systems lead directly to step-by-step directions for problem solving and maintenance tasks in each work package (WP). Lubrication instructions have been added to the TM, as part of Preventive Maintenance Checks and Services. Unit maintenance instructions are followed by direct support maintenance and general support maintenance instructions. A list of repair parts and special tools to perform tasks is contained in TM 9-2320-386-24P.
- b. **Work Package Format** – This manual is organized in Work Packages, each of which is a stand alone portion of the TM. A WP logically divides all data required for a certain function, and may include descriptive information, operating tasks, maintenance tasks, troubleshooting, preventive maintenance checks and services, repair parts, or supporting information. Work packages appear in numerical sequence and are continuous throughout the two volumes of the manual. An example of work package numbering is: 0030 00-1. The 0030 is the work package number; the 00 is to be used in the event a work package(s) is added between work packages at a future date; the -1 is the page number.

To find the WP you require, first go to the table of contents (or to the bleed-to-edge indicator on the cover). This will lead you to the specific chapter, then section titles, to enable you to locate specific maintenance tasks and information in this manual. A title page for each chapter precedes the first section of the chapter and lists section numbers and/or titles which guide you to a section table of contents work package.

- c. **Illustrations** – A variety of methods are used to make locating and fixing components much easier. Locator illustrations with keyed text, exploded views, and cut-away diagrams make the information in this manual easier to understand and follow.
- d. **Keying Text With Illustrations** – Instructions are located with figure(s) that illustrate the specific task you are working on. The task steps and figure(s) are located side-by-side.

HOW TO USE YOUR MANUAL

You must familiarize yourself with the entire maintenance procedure before beginning the maintenance task.

Here's an example of how to use your manual:

PROBLEM: The unit maintenance mechanic gets a report that the engine cranks but will not start.

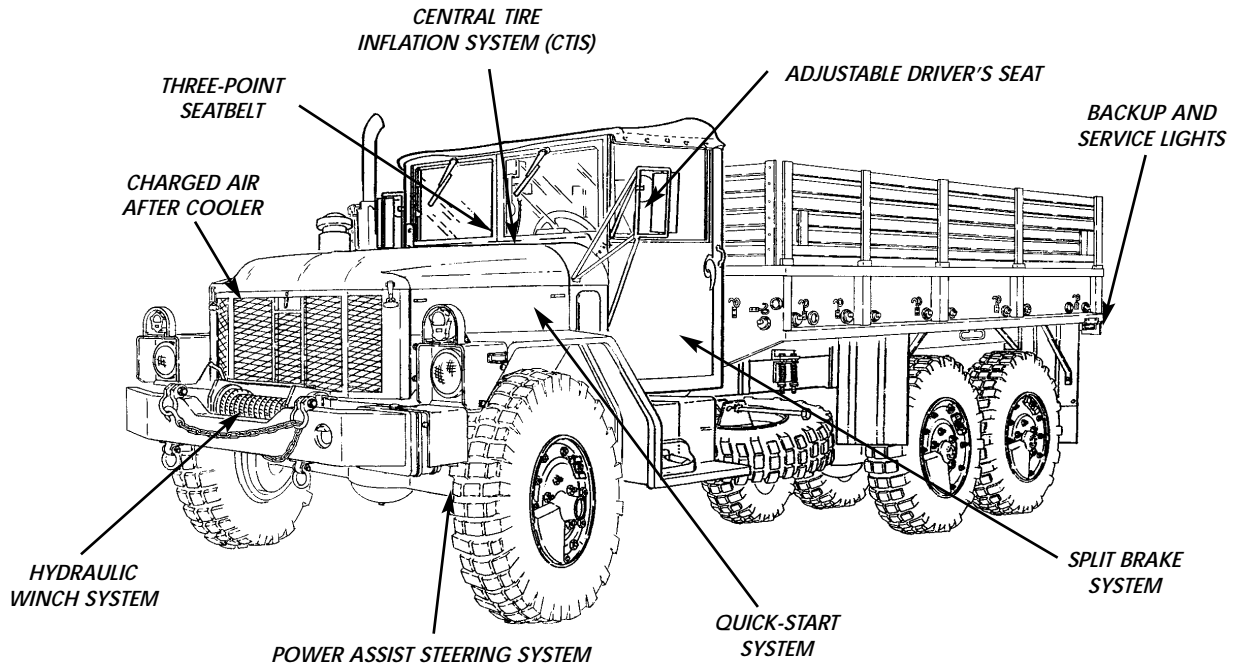
SOLUTION: Follow the troubleshooting steps:

1. Look at the cover of this manual. You will see subjects listed from top to bottom on the right-hand side.
2. Look at the right edge of the manual. On some of the pages you will see black bars (edge indicators) that are aligned with the subject bars on the cover. These are the locations of the subjects in the text.
3. Look at section II on the chapter 2 title page. This section guides you to WP 0008 00, Unit Troubleshooting Procedures Table of Contents, which in turn leads you to WP 0009 00, Mechanical Troubleshooting Symptom Index.

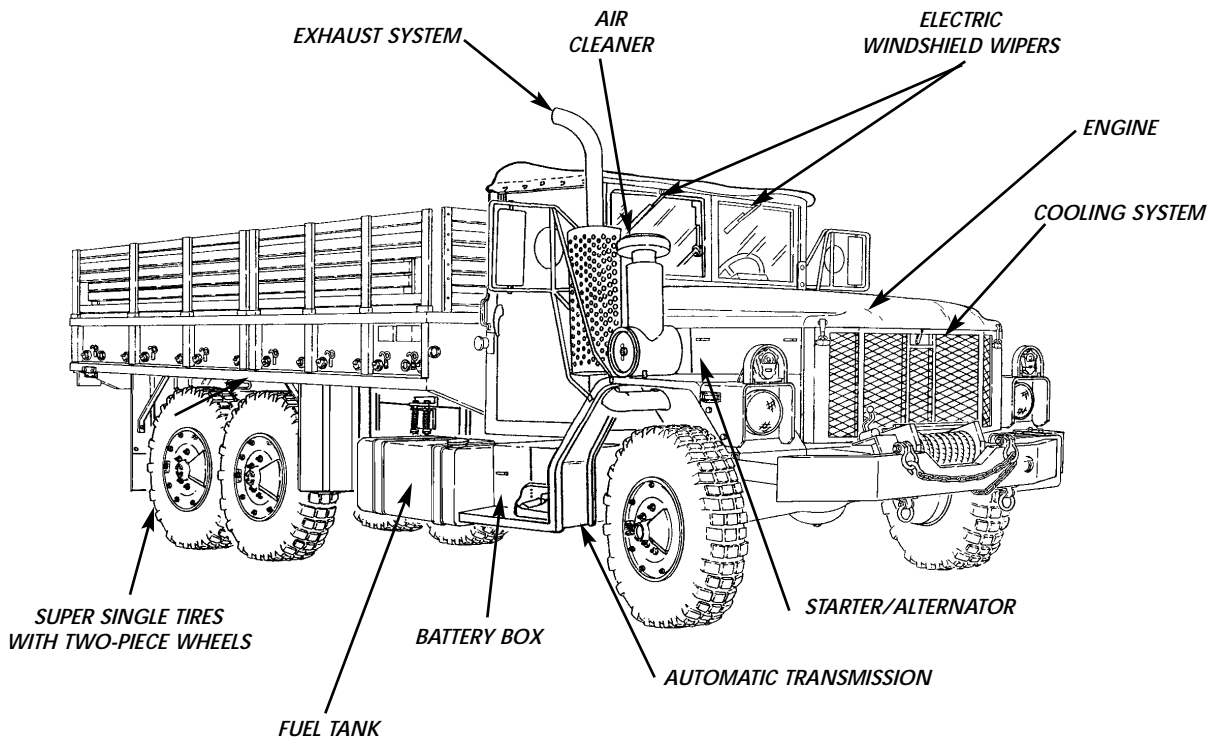
HOW TO USE THIS MANUAL (Contd)

4. Look down the list until you find ENGINE. Beneath that heading you will find the symptom noted by the maintenance mechanic: Engine cranks but will not start.
5. Turn to the work package and page indicated, WP 0010 00-2.
6. In WP 0010 00-2, there are steps and text related to resolving the problem of engine cranks but will not start.
 - Step 1. You follow the steps listed under engine cranks but will not start and determine that the fuel filter needs replacing. WP 0054 00, Fuel Filter Maintenance, is referenced.
 - Step 2. The rest of the inspection shows no other cause for the problem.
7. Detailed procedures include everything you must do to accomplish a basic maintenance task.
 - a. Before beginning the maintenance task, look through the procedure. You must familiarize yourself with the entire maintenance procedure before beginning the maintenance task. The entire procedure for WP 0054 00, Fuel Filter Maintenance, includes draining, removal, cleaning, inspection, and installation instructions.
 - b. The seven basic headings under INITIAL SETUP outline the information required by the user before starting the detailed procedure. They are:
 - Test Equipment: Test equipment required to perform the procedure.
 - Tools and Special Tools: Those tools needed to perform the maintenance task.
 - Materials/Parts: All mandatory replacement parts and materials needed to perform the task.
 - Personnel Required: The number of personnel required for a task if task requires more than one.
 - References: Those manuals needed to complete the task.
 - Equipment Condition: Notes the conditions that must exist before starting the task.
 - Special Environmental Conditions: Any special environmental conditions that are required.
8. Refer to WP 0054 00, Fuel Filter Maintenance, as you review the following points:
 - a. **Modular Text**: Both text and illustrations are used together. This manual was designed so that the two would be visible at once, making part identification and procedure sequence easy to follow.
 - b. **Initial Setup**: Outlines task conditions.
 - c. **Illustrations**: An exploded diagram of the component, removed from the vehicle, shows part locations, attachments, and spatial relationships.
9. Your manual is easier to use once you understand its design. We hope it will encourage you to use it more often.

EXTENDED SERVICE PROGRAM VEHICLE ENHANCEMENTS



M35A3



M36A3

**GENERAL INFORMATION
FOR
TRUCK, CARGO, 2-1/2-TON, 6X6, M44A3 SERIES TRUCKS (DIESEL)**

General Information WP 0001 00



GENERAL INFORMATION

SCOPE

a. This manual contains instructions for servicing and maintenance of 2-1/2-ton, 6x6, M44A2 series vehicles which have been rebuilt through the Extended Service Program (ESP). These vehicles are:

- (1) M35A3, Cargo Truck, WO/W and W/W (Fixed Side)
- (2) M35A3C, Cargo Truck, WO/W and W/W (Dropside)
- (3) M36A3, Cargo Truck, WO/W and W/W (Long Wheelbase)

b. The material presented here provides unit, direct support, and general support maintenance personnel with information and procedures needed to provide the safest and most efficient operation and servicing of these vehicles. This information includes:

- (1) Vehicle limitations.
- (2) The function of unique controls.
- (3) Cautions and warnings to operators regarding safety to personnel and equipment.
- (4) Troubleshooting procedures to be followed by unit, direct support, and general support maintenance personnel if the vehicle malfunctions.
- (5) Unit maintenance checks and services.
- (6) Repair procedures to be followed by unit, direct support, and general support maintenance personnel.

c. This manual contains unit, direct support, and general support procedures unique to M44A3, ESP series vehicles. Refer to TM 9-2320-361-20 for unit maintenance procedures or TM 9-2320-361-34 for direct support and general support procedures common to M44A2 series vehicles.

MAINTENANCE FORMS, RECORDS, AND REPORTS

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

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR'S)

If the design of your vehicle needs improvement, let us know. If your vehicle is in proper operating condition and there are problems with vehicle or equipment performance, send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. It is not necessary to show a new design or a better way to perform a procedure. Just let us know why you don't like the design or performance. Put in on an SF 368 (Quality Deficiency Report). Mail it to us at: Commander, U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-IM-MMAA, Warren, Michigan 48397-5000. We'll send you a reply. You may also mail, fax or email your letter, DA Form 2028, or DA Form 2028-2 direct to: AMSTA-LC-CI/TECH PUBS, TACOM-RI, 1 Rock Island Arsenal, Rock Island, IL 61299-7630. The email address is TACOM-TECH-PUBS@ria.army.mil. The fax number is DSN 793-0726 or Commercial (309) 782-0726.

HAND RECEIPT

This manual has a companion document with a TM number followed by -HR (which stands for Hand Receipt). TM 9-2320-386-10-HR consists of preprinted hand receipts that list end item related equipment (i.e., COEI, BII, and AAL) that must be accounted for. As an aid to property accountability, additional HR manuals may be requisitioned through normal publication channels.

CORROSION PREVENTION AND CONTROL (CPC)

Corrosion Prevention and Control (CPC) of Army materiel is a continuing concern. It is important that any corrosion problem(s) be reported so corrections and/or improvements can be made to prevent the problem(s) in future items.

While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials, such as rubber and 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 Standard Form 368, 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.

The form should be submitted to the address specified in DA Pam 738-750.

DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE

Procedures for destruction of Army materiel to prevent enemy use can be found in TM 750-244-6.

PREPARATION FOR STORAGE OR SHIPMENT

Storage and limited storage instructions are in Chapter 8 of this manual. Additional information can be found in TM 746-10, Marking, Packing, and Shipment of Supplies and Equipment: General Packaging Instructions for Field Use.

WARRANTY INFORMATION

Extended Service Program (ESP) vehicles have an engine (Caterpillar) warranty of 150,000 miles or three years. They also have a transmission (Allison) warranty of two years with unlimited mileage. The warranty starts on the date found in block 23, DA Form 2408-9, in the log book.

USE OF THE METRIC SYSTEM

The equipment/system described herein contains metric components and requires metric common and special tools; therefore, metric units in addition to U.S. standard units will be used throughout this publication.

LIST OF ABBREVIATIONS

The following is a list of special abbreviations that appear in this manual. For a list of standard abbreviations that appear in this manual, refer to MIL-STD-12.

A – Annually	kg – kilogram
AAL – Additional Authorization List	kPa – Kilopascal
AC – Alternating Current	L – Liter
AMP HR – Ampere hour	LCD – Liquid Crystal Display
AOAP – Army Oil Analysis Program	m – Meter
AR – Army Regulation	m³/min – Cubic meters per minute
ATAAC – Air-To-Air Aftercooler	MIL-STD – Military Standard
B – Biennially	mL – Milliliter
BFS – Brake Fluid, Silicone	mm – Millimeter
BII – Basic Issue Item	MT – Metric ton
C – Country	N – Neutral
cm – Centimeter	N – Newton
cmm – Cubic meters per minute	NATO – North Atlantic Treaty Organization
C/MR – Change when Maintenance Requires	NBC – Nuclear, Biological, Chemical
CAGEC – Commercial and Government Entity Code	NSN – National Stock Number
cfm – Cubic feet per minute	N•m – Newton meter
COEI – Components of End Item	OC – On-condition
Contd – Continued	OEA – Oil, Engine (arctic)
CPC – Corrosion Prevention and Control	OE/HDO – Lubricating Oil, Internal Combustion Engine, Tactical
CTIS – Central Tire Inflation System	PMCS – Preventive Maintenance Checks and Services
CW – Chain (and) Wire Rope (lubricating oil)	PPS – Priority Pressure Switch
°C – Celsius	psi – Pounds per square inch
DA – Department of the Army	R – Reverse
DF – Diesel Fuel	RPM – Revolutions per minute
E – Emergency	S – Semiannually
ECU – Electronic Control Unit	S – Snow
EIR – Equipment Improvement Recommendations	SF – Standard Form
EIR MD – Equipment Improvement Report and Maintenance Digest	STE/ICE-R – Simplified Test Equipment for Internal Combustion Engines-Reprogrammable
ESP – Extended Service Program	TAMMS – The Army Maintenance Management System
°F – Fahrenheit	TB – Technical Bulletin
GAA – Grease, Automotive, and Artillery	TM – Technical Manual
GO – Lubricating Oil	TP – Technical Publication
g – Gram	v – Volts
H – Highway	WP – Work Package
HP – Horsepower	
km – Kilometer	

ARMY PETROLEUM, OIL, AND LUBRICANTS (POL)

Proper disposal of hazardous waste material is vital to protecting the environment and providing a safe work environment. Materials such as batteries, oils, and antifreeze must be disposed of in a safe and efficient manner.

The following references are provided as a means to ensure that proper disposal methods are followed:

Technical Guide No. 126 (from the U.S. Army Environmental Hygiene Agency (USAEHA))

National Environmental Policy Act of 1969 (NEPA)

Clean Air Act (CAA)

Resource Conservation and Recovery Act (RCRA)

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

Emergency Planning and Community Right to Know Act (EPCRA)

Toxic Substances Control Act (TSCA)

Occupational Health and Safety Act (OHSA)

The disposal of Army Petroleum, Oils and Lubricants (POL) products are affected by some of these regulations. State regulations may also be applicable to POL.

If you are unsure of which legislation affects you, contact state or local agencies for regulations regarding proper disposal of Army POL.

COMMON TOOLS AND EQUIPMENT

For authorized common tools and equipment, refer to the Modified Table of Organization and Equipment (MTOE) applicable to your unit.

SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

Special tools, test, measurement, and diagnostic equipment (TMDE); and support equipment used to maintain the components covered in this manual can be found in WP 0392 00, Maintenance Allocation Chart (MAC), and TM 9-2320-386-24P.

REPAIR PARTS

Repair parts are listed and illustrated in TM 9-2320-386-24P.

END OF WORK PACKAGE

CHAPTER 1

**DESCRIPTION AND THEORY OF OPERATION
FOR
TRUCK, CARGO, 2-1/2-TON, 6X6, M44A3 SERIES TRUCKS (DIESEL)**

Section I.	Equipment Description and Data	WP 0002 00
Section II.	Theory of Operation	WP 0004 00



DESCRIPTION AND THEORY OF OPERATION

EXTENDED SERVICE PROGRAM (ESP)

TRUCK, CARGO, 2-1/2-TON, 6X6, M44A3 SERIES TRUCKS (DIESEL)

M35A3, W/O WINCH (NSN 2320-01-383-2047); W/WINCH (NSN 2320-01-383-3850);

M35A3C, W/O WINCH (NSN 2320-01-383-2050); W/WINCH (NSN 2320-01-383-2049);

M36A3, W/O WINCH (NSN 2320-01-383-2048); W/WINCH (NSN 2320-01-383-2046).

Section I. EQUIPMENT DESCRIPTION AND DATA

TABLE OF CONTENTS

<i>WP Title</i>	<i>WP Sequence No.-Page No.</i>
Equipment Characteristics, Capabilities, and Features	0003 00-1
Location and Description of Major Components	0003 00-4
Differences Between Models	0003 00-6
Equipment Data	0003 00-7
Location and Description of Data Plates	0003 00-9

END OF WORK PACKAGE

DESCRIPTION AND THEORY OF OPERATION

EXTENDED SERVICE PROGRAM (ESP)

TRUCK, CARGO, 2-1/2-TON, 6X6, M44A3 SERIES TRUCKS (DIESEL)

M35A3, W/O WINCH (NSN 2320-01-383-2047); W/WINCH (NSN 2320-01-383-3850);

M35A3C, W/O WINCH (NSN 2320-01-383-2050); W/WINCH (NSN 2320-01-383-2049);

M36A3, W/O WINCH (NSN 2320-01-383-2048); W/WINCH (NSN 2320-01-383-2046).

Section I. EQUIPMENT DESCRIPTION AND DATA

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

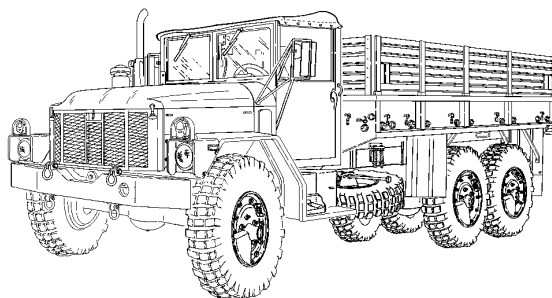
The M35A3, M35A3C, and M36A3 cargo trucks are used for transporting troops or heavy loads. The trucks have a new engine, automatic transmission, and drivetrain, and rebuilt transfer case and axles. Other new subsystems include new cooling, exhaust, air intake, split-brakes, fuel, electrical, power-assist steering, driver's seatbelts, super-single tires with two-piece wheels, Chemical Agent Resistant Coating (CARC) paint, Simplified Test Equipment/Internal Combustion Engines-Reprogrammable (STE/ICE-R), and Central Tire Inflation System (CTIS).

All ESP trucks have improved mobility and can traverse all types of roads and cross-country terrain in extreme high or low temperatures and humidity. The trucks are capable of fording hard-bottom water crossings up to 30 inches (76 centimeters) without a deepwater fording kit, and 72 inches (183 centimeters) with the fording kit. Front lifting shackles and vehicle tiedown brackets provide a means of lifting and securing the truck during transport.

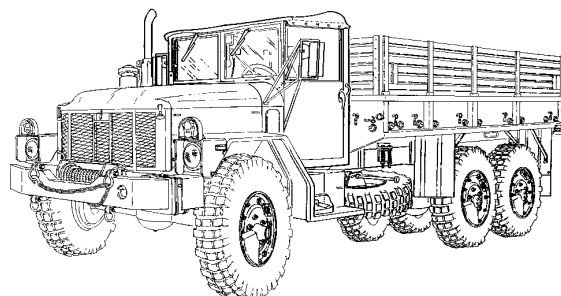
Cargo Truck With Fixed Sides, WO/W and W/W, M35A3. The M35A3 cargo truck is used to transport equipment, materials, and/or personnel. Since it has permanent steel-welded sides, it is the preferred vehicle for use in transporting bulky payloads that may shift during transit. The truck body provides 270 cubic feet (7.6 cubic meters) of cargo space. Side racks have built-in troop seats for troop transport operations.

NOTE

The M35A3 cargo truck is not suited operations that require easy access to cargo. An example of this is a ground-to-truck forklift operation. The M35A3C cargo truck with dropsides is preferred for such operations.



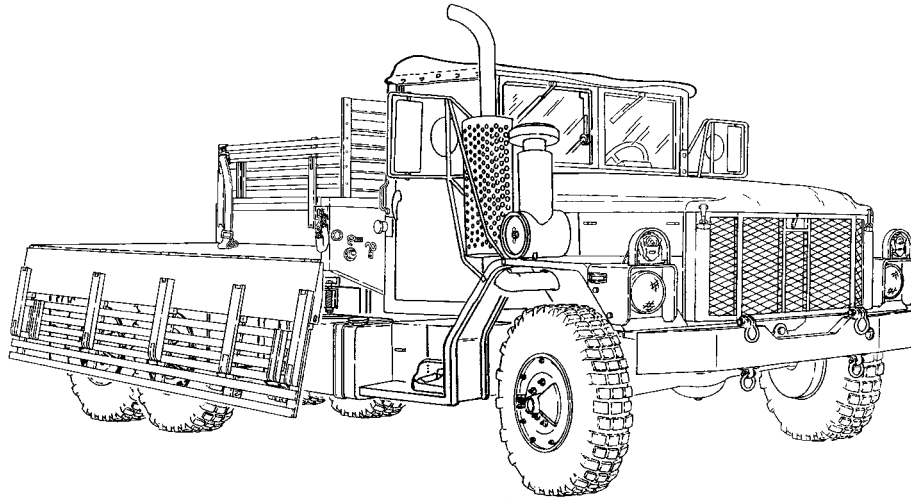
M35A3 WO/W



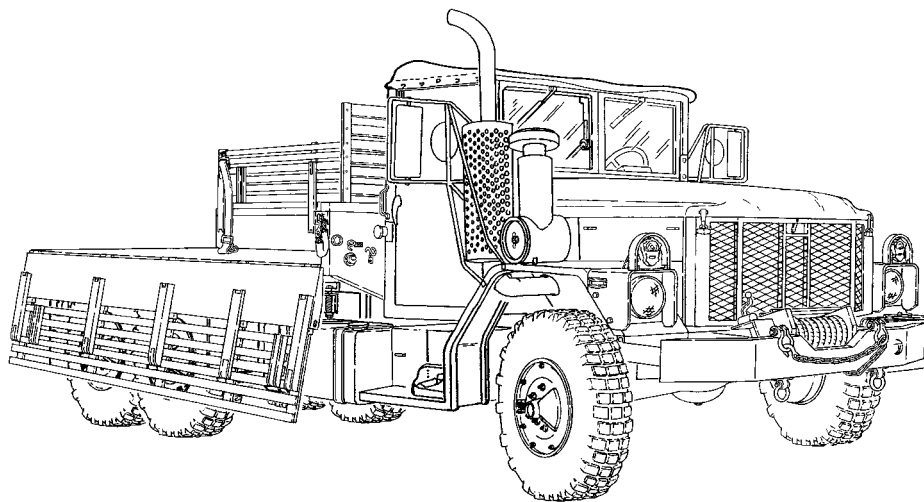
M35A3 W/W

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES (Contd)

Cargo Truck With Dropsides, WO/W and W/W, M35A3C. The M35A3C cargo truck with dropsides is used to transport equipment, materials, and/or personnel. The hinged steel sides can be folded down or removed for easy side loading and unloading operations. The truck body provides 270 cubic feet (7.6 cubic meters) of cargo space. Side racks have built-in troop seats for troop transport operations.



M35A3C WO/W



M35A3C W/W