

**TM 9-2320-209-10-1**  
**TO 36A12-1B-1091-1**

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TECHNICAL MANUAL

**OPERATION, INSTALLATION AND  
REFERENCE DATA**

OPERATOR LEVEL

**2 1/2-TON, 6X6, M44A1 AND M44A2 SERIES TRUCKS  
(MULTIFUEL)**

**TRUCK, CARGO: M35A1 ,  
M35A2, M35A2C, M36A2; TRUCK,  
TANK, FUEL: M49A1C, M49A2C; TRUCK, TANK,  
WATER: M50A1, M50A2, M50A3; TRUCK, VAN,  
SHOP: M109A2, M109A3; TRUCK, REPAIR SHOP:  
M185A2, M185A3; TRUCK, TRACTOR: M275A1,  
M275A2; TRUCK, DUMP: M342A2; TRUCK,  
MAINTENANCE, PIPELINE CONSTRUCTION:  
M756A2; TRUCK, MAINTENANCE,  
EARTH BORING AND POLESETTING: M764**

Chapter 1  
Introduction

Chapter 2  
Description  
and Data

Chapter 3  
Service Upon  
Receipt of  
Equipment

Chapter 4  
Operating  
Procedures

Appendix A  
References

Appendix B  
Components  
of End Item  
List

Appendix C  
Additional  
Authorization  
List

Appendix D  
Expendable  
Supplies and  
Materials  
List

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**DEPARTMENTS OF THE ARMY AND THE AIR FORCE**  
**SEPTEMBER 1980**

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DEPARTMENTS OF THE ARMY  
AND  
THE AIR FORCE  
Washington, DC, 26 September 1980

TECHNICAL MANUAL

OPERATION, INSTALLATION AND REFERENCE DATA  
OPERATOR LEVEL  
2 1/2-TON, 6X6, M44A1 AND M44A2 SERIES TRUCKS  
(MULTIFUEL)

Model	NSN without Winch	NSN with Winch	
Truck, Cargo	M35A1	2320-00-542-5633	2320-00-542-5634
	M35A2	2320-00-077-1616	2320-00-077-1617
	M35A2C	2320-00-926-0873	2320-00-926-0875
	M36A2	2320-00-077-1618	2320-00-077-1619
Truck, Tank, Fuel	M49A1C	2320-00-440-3349	2320-00-440-3346
	M49A2C	2320-00-077-1631	2320-00-077-1632
Truck, Tank, Water	M50A1	2320-00-440-8307	2320-00-440-8305
	M50A2	2320-00-077-1633	2320-00-077-1634
	M50A3	2320-00-937-4036	2320-00-937-5264
Truck, Van, Shop	M109A2	2320-00-440-8313	2320-00-440-8308
	M109A3	2320-00-077-1636	2320-00-077-1637
Truck, Repair Shop	M185A2	4940-00-987-8799	4940-00-987-8800
	M185A3	4940-00-077-1638	4940-00-077-1639
Truck, Tractor	M275A1	2320-00-446-2479	
	M275A2	2320-00-077-1640	2320-00-077-1641
Truck, Dump	M342A2	2320-00-077-1643	2320-00-077-1644
Truck, Maintenance, Pipeline Construction	M756A2		2320-00-904-3277
Truck, Maintenance, Earth Boring and Polesetting	M764		2320-00-937-5980

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**REPORTING OF 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 procedure, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publication and Blank Forms) , or DA Form 2028-2 located in the back of this manual direct to: Commander, U.S. Army Tank Automotive Materiel Readiness Command, ATTN : DRSTA-MBA, Warren, Michigan 48090. A reply will be furnished to you.

	Paragraph	Page
CHAPTER 1. INTRODUCTION		
Scope . . . . .	1-1	1-1
Forms and Records . . . . .	1-2	1-1
Equipment Improvement Report and Maintenance Digest (EIR MD) and Equipment Improvement Report and Maintenance Summary (EIR MS) . . . . .	1-3	1-1
Reporting Improvement Recommendations . . . . .	1-4	1-1
Metric System . . . . .	1-5	1-1
Destruction to Prevent Enemy Use . . . . .	1-6	1-1
Manual Organization . . . . .	1-7	1-6
Vehicle /Bridge Classification . . . . .	1-8	1-6
CHAPTER 2. DESCRIPTION AND DATA		
Section I. Functional Description		2-1
General . . . . .	2-1	2-1
Overall Equipment Functional Description . . . . .	2-2	2-1
Engine . . . . .	2-2a	2-1
Clutch . . . . .	2-2b	2-1
Electrical System . . . . .	2-2c	2-1
Fuel System . . . . .	2-2d	2-1
Cooling System. . . . .	2-2e	2-1
Exhaust System . . . . .	2-2f	2-1
Transmission System . . . . .	2-2g	2-1
Transfer System . . . . .	2-2h	2-1
Transmission Power Takeoff System . . . . .	2-2i	2-1
Transfer Power Takeoff System . . . . .	2-2j	2-1
Propeller Shafts . . . . .	2-2k	2-1
Steering System . . . . .	2-2l	2-2
Brake System . . . . .	2-2m	2-2
Axle, Wheels and Hubs . . . . .	2-2n	2-2
Auxiliary Equipment and Accessories . . . . .	2-2o	2-2
Section II. Physical Description . . . . .		2-2
General . . . . .	2-3	2-2
Overall Equipment Physical Description . . . . .	2-4	2-2
Engine . . . . .	2-4a	2-2
Clutch . . . . .	2-4b	2-5
Electrical System . . . . .	2-4c	2-6
Fuel and Air Intake System . . . . .	2-4d	2-7

	Paragraph	Page
	Cooling System . . . . .	2-4e 2-8
	Exhaust System . . . . .	2-4f 2-9
	Transmission . . . . .	2-4g 2-14
	Transmission Power Takeoff . . . . .	2-4h 2-14
	Transfer . . . . .	2-4i 2-14
	Transfer Power Takeoff . . . . .	2-4j 2-14
	Propeller and Drive Shaft Systems . . . . .	2-4k 2-15
	Steering System . . . . .	2-4l 2-18
	Brake System . . . . .	2-4m 2-19
	Axles, Wheels, and Hubs . . . . .	2-4n 2-20
Section III.	Tabulated Data . . . . .	2-21
	General . . . . .	2-5 2-21
	Weight . . . . .	2-6 2-21
	Dimensions: . . . . .	2-7 2-21
	Capacities . . . . .	2-8 2-21
	Tire Inflation Data . . . . .	2-9 2-21
	Environmental Characteristics . . . . .	2-10 2-21
	Functional Characteristics . . . . .	2-11 2-21
	Components of End Item List . . . . .	2-12 2-21
	Additional Authorization List . . . . .	2-13 2-21
	Expendable Supplies and Materials List . . . . .	2-14 2-21
CHAPTER 3.	SERVICE UPON RECEIPT OF EQUIPMENT	
	General . . . . .	3-1 3-1
	Break-in Operation . . . . .	3-2 3-1
	General . . . . .	3-2a 3-1
	Break-in . . . . .	3-2b 3-1
	Road Test . . . . .	3-2c 3-2
	After the Road Test . . . . .	3-2d 3-2
CHAPTER 4.	OPERATING PROCEDURES . . . . .	
Section I.	Description and Use of Operator's Controls and Indicators . . . . .	4-1
	General . . . . .	4-1 4-1
	Chassis Controls and Indicators . . . . .	4-2 4-2
	Instrument Panel Controls and Indicators . . . . .	4-2a 4-2
	Windshield Controls and Indicators . . . . .	4-2b 4-4
	Driver's Compartment Controls and Indicators . . . . .	4-2c 4-5
	Front Winch Controls and Indicators . . . . .	4-2d 4-9
	Trailer Brake Controls and Indicators . . . . .	4-2e 4-10
	Equipment Body Controls and Indicators . . . . .	4-3 4-11
	Fuel Tank Trucks (M49A1C and M49A2C) Controls and Indicators . . . . .	4-3a 4-11
	Water Tank Trucks Controls and Indicators . . . . .	4-3b 4-13
	Shop Van and Instrument Repair Shop Trucks Controls and Indicators . . . . .	4-3c 4-15

	Paragraph	Page
Tractor Trucks Controls and Indicators . . . . .	4-3d	4-17
Dump Truck Controls and Indicators . . . . .	4-3e	4-18
Pipeline Construction Truck Controls and Indicators . . . . .	4-3f	4-19
Earth Boring Machine and Polesetter Truck Controls and Indicators . . . . .	4-3g	4-20
Special Kits Controls and Indicators . . . . .	4-4	4-23
Hot Water Personnel Heater Kit Controls and Indicators . . . . .	4-4a	4-23
Arctic Winterization Kit Controls and Indicators . . . . .	4-4b	4-24
Deep Water Fording Kit Controls and Indicators . . . . .	4-4c	4-27
Electric Brake Kit Controls and Indicators . . . . .	4-4d	4-28
Section II. Operation Under Usual Conditions . . . . .		4-29
Scope . . . . .	4-5	4-29
General Operating Procedures . . . . .	4-6	4-29
Before Engine Startup . . . . .	4-6a	4-30
Starting the Engine Above +20°F . . . . .	4-6b	4-37
Cold Weather Starting Below +20°F . . . . .	4-6c	4-41
Placing and Keeping the Truck in Motion. . . . .	4-6d	4-43
Stopping the Truck and Engine . . . . .	4-6e	4-55
Operation of Front Winch . . . . .	4-7	4-58
General . . . . .	4-7a	4-58
Before Operating . . . . .	4-7b	4-58
Unwinding the Winch Line . . . . .	4-7c	4-59
Lifting or Pulling . . . . .	4-7d	4-65
Stopping the Winch . . . . .	4-7e	4-69
Lowering Load or Unwinding Slack Cable. . . . .	4-7f	4-70
Winding the Winch Line on the Drum . . . . .	4-7g	4-72
Locking the Front Winch for Travel . . . . .	4-7h	4-75
Operation of Cargo Trucks . . . . .	4-8	4-77
General . . . . .	4-8a	4-77
Removing the Front and Side Racks . . . . .	4-8b	4-77
Installing the Front and Side Racks . . . . .	4-8c	4-80
Removing the Front and Side Racks from Dropside Type Cargo Trucks . . . . .	4-8d	4-83
Lowering the Dropsides on Dropside Type Cargo Trucks . . . . .	4-8e	4-88
Removing the Dropsides, Tailgate or Both. . . . .	4-8f	4-93
Installing the Dropsides, Tailgate, Side Racks and Front Racks . . . . .	4-8g	4-95
Operation of Fuel Tank Trucks . . . . .	4-9	4-98
General . . . . .	4-9a	4-98
Gravity Filling the Tank Sections . . . . .	4-9b	4-98
Suction Filling the Tank Sections or Trans- ferring Fuel from One Source to Another through Pump . . . . .	4-9c	4-110

	Paragraph	Page
Power Discharging the Tank Sections . . . . .	4-9d	4-131
Checking Condition of Filter . . . . .	4-9e	4-139
Gravity Discharging the Tank Sections . . . . .	4-9f	4-143
Fording . . . . .	4-9g	4-151
Operation of Water Tank Trucks . . . . .	4-10	4-156
General . . . . .	4-10a	4-156
Gravity Filling the Tank Sections . . . . .	4-10b	4-157
Suction Filling the Tank Sections and Transferring Water from One Location to Another . . . . .	4-10c	4-161
Hydrant Filling the Tank Sections . . . . .	4-10d	4-175
Power Discharging the Tank Sections . . . . .	4-10e	4-186
Gravity Discharging the Tank Sections . . . . .	4-10f	4-192
Operating Water Tank Trucks During Freezing Temperatures . . . . .	4-10g	4-195
Operation of Shop Van and Instrument Repair Shop Van Trucks. . . . .	4-11	4-202
Preparing Shop Van and Instrument Repair Shop Van for Use. . . . .	4-11a	4-202
Supplying 115-Volt AC Power to Shop Van . . . . .	4-11b	4-209
Operating the Exhaust Blower . . . . .	4-11c	4-210
Operating the Dome and Blackout Dome Lights . . . . .	4-11d	4-212
Supplying Power to Moulding Receptacles . . . . .	4-11e	4-216
Operation of Tractor Trucks . . . . .	4-12	4-217
General . . . . .	4-12a	4-217
Coupling the Semitrailer . . . . .	4-12b	4-217
Uncoupling the Semitrailer . . . . .	4-12c	4-231
Operation of Dump Trucks . . . . .	4-13	4-235
General . . . . .	4-13a	4-235
Rigging the Tailgate . . . . .	4-13b	4-236
Loading the Dump Truck . . . . .	4-13c	4-238
Unloading the Dump Truck with Body Down . . . . .	4-13d	4-244
Unloading the Dump Truck by Dumping . . . . .	4-13e	4-247
Unloading the Dump Truck by Spreading . . . . .	4-13f	4-252
Operation of Pipeline Construction Truck . . . . .	4-14	4-257
General . . . . .	4-14a	4-257
Operating the Rear Winch . . . . .	4-14b	4-257
Rigging the A-Frame for Rear Operation . . . . .	4-14c	4-271
Lowering the A-Frame and Preparing . . . . . Truck for Travel after Rear Operation . . . . .	4-14d	4-278
Rigging the A-Frame for Side Operation . . . . .	4-14e	4-291
Lowering the A-Frame and Preparing Truck for Travel after Side Operation . . . . .	4-14f	4-302
Operation of Earth Boring Machine and Polesetter Trucks . . . . .	4-15	4-311
General . . . . .	4-15a	4-311
Preparing the Truck for Boring Operation . . . . .	4-15b	4-311

	Paragraph	
Raising, Leveling, and Lowering the Derrick Tube . . . . .	4-15c	4-315
Operating and Securing the Rear Winch... . . . .	4-15d	4-322
Installing 9-inch, 12-inch, and 16-inch Augers . . . . .	4-15e	4-329
Installing 20-inch and 30-inch Augers . . . . .	4-15f	4-331
Operating the Earth Boring Machine. . . . .	4-15g	4-337
Boring in Various Soils . . . . .	4-15h	4-347
Preparing Boring Machine for Travel . . . . .	4-15i	4-352
Dragging Poles. . . . .	4-15j	4-362
Setting Poles. . . . .	4-15k	4-365
Pulling Poles. . . . .	4-15l	4-369
Operating Collapsible Cable Reel . . . . .	4-15m	4-373
Operation of Hot Water Personnel Heater Kit. . . . .	4-16	4-383
Operation of Arctic Winterization Kit . . . . .	4-17	4-384
General . . . . .	4-17a	4-384
Operating the Winterfront Cover . . . . .	4-17b	4-384
Using the Quilted Engine Compartment Cover . . . . .	4-17c	4-385
Operating the Fuel Burning Personnel Heater . . . . .	4-17d	4-386
Operating the Fuel Burning Power Plant Heater . . . . .	4-17e	4-391
Using the Slave Receptacle . . . . .	4-17f	4-395
Operating the Deep Water Fording Kit . . . . .	4-18	4-398
Operating the Electric Brake Kit . . . . .	4-19	4-403
Section III. Operation Under Unusual Conditions . . . . .		4-404
Scope . . . . .	4-20	4-404
General . . . . .	4-21	4-404
Operation in Extremely Cold Weather . . . . .	4-22	4-404
General . . . . .	4-22a	4-404
Related Publications . . . . .	4-22b	4-404
Winterization Kits . . . . .	4-22c	4-404
Moving the Truck . . . . .	4-22d	4-405
Parking . . . . .	4-22e	4-406
Refueling . . . . .	4-22f	4-407
Operation in Extreme Hot Weather . . . . .	4-23	4-408
General . . . . .	4-23a	4-408
Cooling System . . . . .	4-23b	4-408
Batteries . . . . .	4-23c	4-408
Body and Chassis . . . . .	4-23d	4-408
Parking the Truck . . . . .	4-23e	4-409
Operation on Unusual Terrain . . . . .	4-24	4-409
Deep Snow or Mud . . . . .	4-24a	4-409
Hard Baked Sand. . . . .	4-24b	4-409
Ice . . . . .	4-24c	4-409
Dusty or Sandy Roads . . . . .	4-24d	4-410
Rocks and Boulders . . . . .	4-24e	4-410
High Altitudes . . . . .	4-24f	4-410

	Paragraph	Page
Fording Operation . . . . .	4-25	4-410
General . . . . .	4-25a	4-410
Fording . . . . .	4-25b	4-411
Fording, Water Tank Trucks . . . . .	4-25c	4-413
After Fording . . . . .	4-25d	4-417
Care of Vehicle After Fording . . . . .	4-25e	4-418
Accidental Submersion. . . . .	4-25f	4-418
Emergency Procedures . . . . .	4-26	4-419
Using Slave Receptacle to Start the Engine . . . . .	4-26a	4-419
Using Jumper Cables to Start the Engine . . . . .	4-26b	4-419
Towing the Truck to Start Engine . . . . .	4-26c	4-423
Highway Towing (M44A2 Series Trucks) . . . . .	4-26d	4-426
Highway Towing (M44A1 Series Trucks) . . . . .	4-26e	4-428
 APPENDIX A. REFERENCES		
Publication Indexes and General Reference . . . . .	A-1	A-1
Military Publications Indexes . . . . .	A-1a	A-1
General Reference . . . . .	A-1b	A-1
Forms . . . . .	A-2	A-1
Other Publications . . . . .	A-3	A-1
Truck . . . . .	A-3a	A-1
General . . . . .	A-3b	A-2
 APPENDIX B . COMPONENTS OF END ITEM LIST		
Section I . Introduction . . . . .		B-1
Scope . . . . .	B-1	B-1
General . . . . .	B-2	B-1
Explanation of Columns . . . . .	B-3	B-1
Abbreviations . . . . .	B-4	B-3
Section II. Integral Components of the End Item . . . . .		B-4
Section III. Basic Issue Items . . . . .		B-6
 APPENDIX C . ADDITIONAL AUTHORIZATION LIST		
Section 1. Introduction . . . . .		
Scope . . . . .	C-1	C-1
General . . . . .	C-2	C-1
Explanation of Listing . . . . .	C-3	C-1
Section II. Additional Authorization List . . . . .		C-3
 APPENDIX D. EXPENDABLE SUPPLIES AND MATERIALS LIST.		
Section 1. Introduction . . . . .		D-1
Scope . . . . .	D-1	D-1
Explanation of Columns . . . . .	D-2	D-1
Section II. Expendable Supplies and Materials List. . . . .		D-2
 <b>INDEX</b> . . . . .		 Index 1



VOLUME 2 of 4

SCHEDULED MAINTENANCE

	Page
CHAPTER 1.	PREVENTIVE MAINTENANCE . . . . . 1-1
2.	CHECKOUT , ALINEMENT , AND ADJUSTMENT . . . . . 2-1
3.	LUBRICATION . . . . . 3-1
4.	SCHEDULED MAINTENANCE OF MATERIAL USED IN CONJUNCTION WITH MAJOR ITEMS . . . . . 4-1

VOLUME 3 of 4

TROUBLESHOOTING

CHAPTER 1.	GENERAL INFORMATION . . . . . 1-1
2.	TROUBLESHOOTING APPROACH . . . . . 2-1
3.	TROUBLESHOOTING INDEX . . . . . 3-1
4.	TEST EQUIPMENT PROCEDURES INDEX . . . . . 4-1
5.	TROUBLESHOOTING ROADMAPS . . . . . 5-1
6.	FAULT SYMPTOM INDEXES . . . . . 6-1
7.	SAMPLE TROUBLESHOOTING PROCEDURE . . . . . 7-1
8.	FUEL SYSTEM TROUBLESHOOTING PROCEDURES . . . . . 8-1
9.	COOLING SYSTEM TROUBLESHOOTING PROCEDURE . . . . . 9-1
10.	TRANSMISSION SYSTEM TROUBLESHOOTING PROCEDURES . . . . . 10-1
11.	TRANSFER SYSTEM TROUBLESHOOTING PROCEDURES . . . . . ...11-1
12.	FRONT AXLE SYSTEM TROUBLESHOOTING PROCEDURES . . . . . 12-1
13.	REAR AXLE SYSTEM TROUBLESHOOTING PROCEDURES . . . . . ...13-1
14.	BRAKE SYSTEM TROUBLESHOOTING PROCEDURES . . . . . 14-1
15.	WHEEL SYSTEM TROUBLESHOOTING PROCEDURES . . . . . 15-1
16.	STEERING SYSTEM TROUBLESHOOTING PROCEDURES . . . . . 16-1
17.	OUTRIGGER TROUBLESHOOTING PROCEDURES, TRUCK M764 . . . . . ...17-1
18.	FRONT WINCH TROUBLESHOOTING PROCEDURES . . . . . 18-1
19.	REAR WINCH TROUBLESHOOTING PROCEDURES TRUCK M764 . . . . . ...19-1
20.	REAR WINCH TROUBLESHOOTING PROCEDURES, TRUCK M756A2 . . . . . ...20-1
21.	DUMP TRUCK TROUBLESHOOTING PROCEDURES . . . . . 21-1

VOLUME 4 of 4

MAINTENANCE

		Page
CHAPTER 1.	GENERAL MAINTENANCE INFORMATION. . . . .	1-1
2.	EQUIPMENT GROUP MAINTENANCE. . . . .	2-1
Section I.	Scope . . . . .	2-1
II.	Engine Equipment Items Maintenance . . . . .	2-2
III.	Wheels Equipment Items Maintenance . . . . .	2-14
IV.	Electrical Equipment Items Maintenance . . . . .	2-32
V.	Winch Equipment Items Maintenance. . . . .	2-35
VI.	Body Equipment Items Maintenance . . . . .	2-43
VII.	Special Purpose Kits Equipment Items . . . . .	
	Maintenance . . . . .	2-54

**LIST OF ILLUSTRATIONS**

Figure	Title	Page
1-1	Typical 2 1/2-Ton 6 x 6 Cargo Truck, M35A1, M35A2, M35A2C , M36A2) . . . . .	1-2
1-2	Typical 2 1/2-Ton 6 x 6 Fuel Servicing Tank Truck (M49A1C , M49A2C) . . . . .	1-2
1-3	Typical 2 1/2-Ton 6 x 6 Water Tank Truck (M50A1, M50A2, M50A3) . . . . .	1-3
1-4	Typical 2 1/2-Ton 6 x 6 Truck Mounted Instrument Repair Shop (M185A2, M185A3) or Truck Mounted Van (M109A2, M109A3) . . . . .	1-3
1-5	Typical 2 1/2-Ton 6 x 6 Tractor Truck, (M275A1, M275A2). . . .	1-4
1-6	Typical 2 1/2-Ton 6 x 6 Dump Truck (M342A2) . . . . .	1-4
1-7	Typical 2 1/2-Ton 6 x 6 Pipeline Construction Truck (M756A2) . . . . .	1-5
1-8	Typical 2 1/2-Ton 6 x 6 Earth Boring Machine and Polesetter Truck (M764) . . . . .	1-5
2-1	Overall Equipment Block Diagram . . . . .	2-3
2-2	Engine Components Location . . . . .	2-4
2-3	Clutch Components Location . . . . .	2-5
2-4	Electrical System Component Location . . . . .	2-6
2-5	Fuel and Air Intake System Components Location . . . . .	2-7

Figure	Title	Page
2-6	Cooling System Components Location . . . . .	2-8
2-7	Exhaust System Component Location (LDS 427-2 Engines). . . .	2-9
2-8	Exhaust System Component Location (M50A1 and M50A2 Trucks) . . . . .	2-10
2-9	Exhaust System Component Location (LD 465-1-1C Engine). . .	2-11
2-10	Exhaust System , Stack Type, Components Location (LD 465-1C and LDT 465-1C Engines) . . . . .	2-12
2-11	Exhaust System Component Location (M49A 2C Fuel Tankers and M275 Tractor Trucks) . . . . .	2-13
2-12	Transmission Power Takeoff Systems Component Location . . . . .	2-14
2-13	Propeller and Drive Shafts System Component Location (Trucks with Winch except M49, M50, and M764). . . . .	2-15
2-14	Propeller and Drive Shafts System Component Location (M49, M50) . . . . .	2-16
2-15	Propeller and Drive Shafts System Component Location (M764) . . . . .	2-17
2-16	Steering System Component Location . . . . .	2-18
2-17	Brake System Component Location . . . . .	2-19
2-18	Axles, Wheels, and Hubs System Component Location . . . . .	2-20
B-1	Repair Shop Truck (M185A2, M185A3) Tools and Equipment . . . . .	B-4
B-2	Miscellaneous Tools and Equipment ( Sheet 1 of 2) . . . . .	B-6
B-2	Miscellaneous Tools and Equipment (Sheet 2 of 2) . . . . .	B-8
B-3	Fuel Truck (M49A1C , M49A2C) Tools and Equipment. . . . .	B-10
B-4	Water Truck (M50A1, M50A2, M50A3) Tools and Equipment (Sheet 1 of 2) . . . . .	B-12
B-4	Water Truck (M50A1, M50A2, M50A3) Tools and Equipment (Sheet 2 of 2) . . . . .	B-14
B-5	Shop Van (M185A2, M185A3) Tools and Equipment (Sheet 1 of 4) . . . . .	B-16
B-5	Shop Van (M185A2, M185A3) Tools and Equipment (Sheet 2 of 4) . . . . .	B-18
B-5	Shop Van (M185A2, M185A3) Tools and Equipment (Sheet 3 of 4) . . . . .	B-20
B-5	Shop Van (M185A2, M185A3) Tools and Equipment (Sheet 4 of 4) . . . . .	B-22
B-6	Pipeline Construction Truck (M765A 2) Tools and Equipment (Sheet 1 of 2) . . . . .	B-24
B-6	Pipeline Construction Truck ( M756A 2) Tools and Equipment (Sheet 20 of 2) . . . . .	B-26
B-7	Earth Boring and Polesetting Truck (M764) Tools and Equipment ( Sheet 1 of 3) . . . . .	B-28

Figure	Title	Page
B-7	Earth Boring and Polesetting Truck (M764) Tools and Equipment (Sheet 2 of 3) . . . . .	B-30
B-7	Earth Boring and Polesetting Truck (M764) Tools and Equipment (Sheet 3 of 3) . . . . .	B-32
B-8	Pipeline Construction Truck (M 756A 2) and Earth Boring and Polesetting Truck (M764) Tools and Equipment . . . . .	B-34

### LIST OF TABLES

Number	Title	Page
1-1	Vehicle Class Information . . . . .	1-6
2-1	Weight (Pounds) . . . . .	2-22
2-2	Dimensions (Inches) . . . . .	2-22
2-3	Operating Dimensions . . . . .	2-23
2-4	Capacities . . . . .	2-23
2-5	Tire Inflation Data . . . . .	2-24
2-6	Permissible Fuels . . . . .	2-24
2-7	Shifting Speeds in Mph . . . . .	2-26
2-8	Engine and Radiator Data . . . . .	2-26
4-1	Vehicle Lights Chart . . . . .	4-45
4-2	Weight of Material in Truck . . . . .	4-235
4-3	Boring Machine Controls . . . . .	4-339
4-4	Gear Speed Settings for Soil Conditions . . . . .	4-341

# CHAPTER 1

## INTRODUCTION

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1-1. **SCOPE.** This Technical Manual contains operating instructions for the 2 1/2-ton, 6x6 M44A1 and M44A2 series trucks (figures 1-1 through 1-8) equipped with multifuel engines, and operator level maintenance instructions in accordance with the Maintenance Allocation Chart. Operating instructions for special purpose kits used with these trucks are also included. The purpose of this manual is to give the operator the information he needs for safe, trouble-free operation of the equipment under usual and unusual conditions.

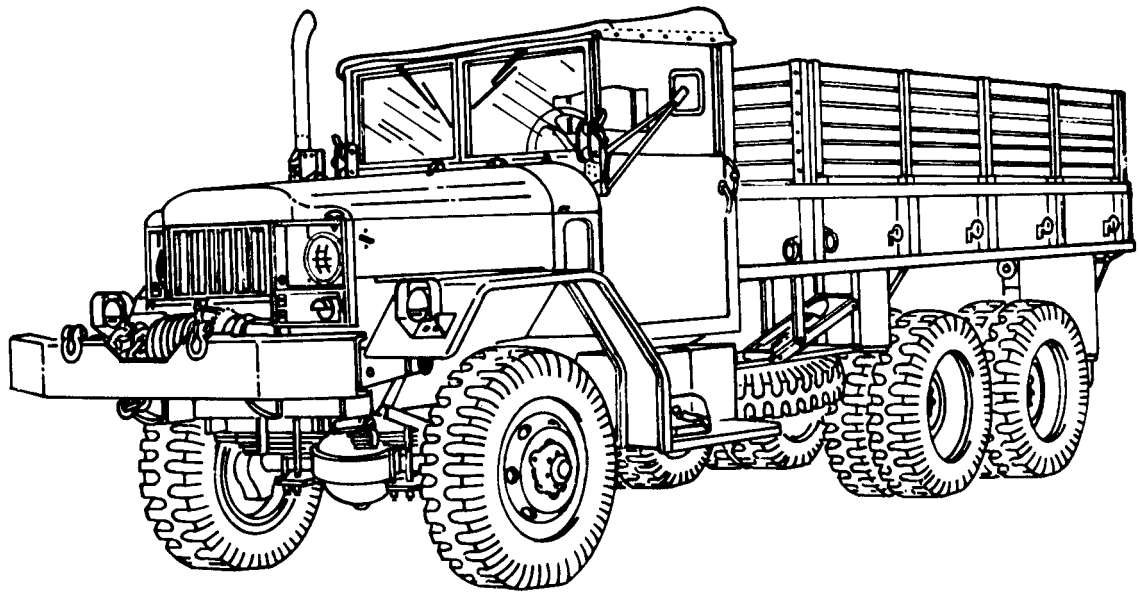
1-2. **FORMS AND RECORDS.** Maintenance forms, records, and reports which are to be used by maintenance personnel at all levels are listed in and prescribed by TM 38-750.

1-3. **EQUIPMENT IMPROVEMENT REPORT AND MAINTENANCE DIGEST (EIR MD) AND EQUIPMENT IMPROVEMENT REPORT AND MAINTENANCE E SUMMARY (EIR MS).** The quarterly Equipment Improvement Report and Maintenance Digest, TB 43-0001-39 series, contains valuable field information on the equipment covered in this manual. The information in the TB 43-0001-39 series is compiled from some of the Equipment Improvement Reports that you prepared on the vehicles covered in this manual. Many of these articles result from comments, suggestions, and improvement recommendations that you submitted to the EIR program. The TB 43-0001-39 series contains information on equipment improvements, minor alterations, proposed Modification Work Orders (MWO's), warranties (if applicable), actions taken on some of your DA Form 2028's (Recommended Changes to Publications), and advance information on proposed changes that may affect this manual. In addition, the more maintenance significant articles, including minor alterations, field-fixes, etc, that have a more permanent and continuing need in the field are republished in the Equipment Improvement Report and Maintenance Summary (EIR MS) for TARCOM Equipment (TM 43-0143). Refer to both of these publications (TB 43-0001-39 series and TM 43-0143) periodically, especially the TB 43-0001-39 series, for the most current and authoritative information on your equipment. The information will help you in doing your job better and will help in keeping you advised of the latest changes to this manual. Also refer to DA Pam 310-4, Index of Technical Publications, and Appendix A, References, of this manual.

1-4. **REPORTING IMPROVEMENT RECOMMENDATIONS.** If your truck 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 your equipment. Let us know why you don't like the design. Tell us why a procedure is hard to perform. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at: Commander, U. S. Army Tank Automotive Materiel Readiness Command, ATTN: DRSTA-MT, Warren, Michigan 48090. We'll send you a reply.

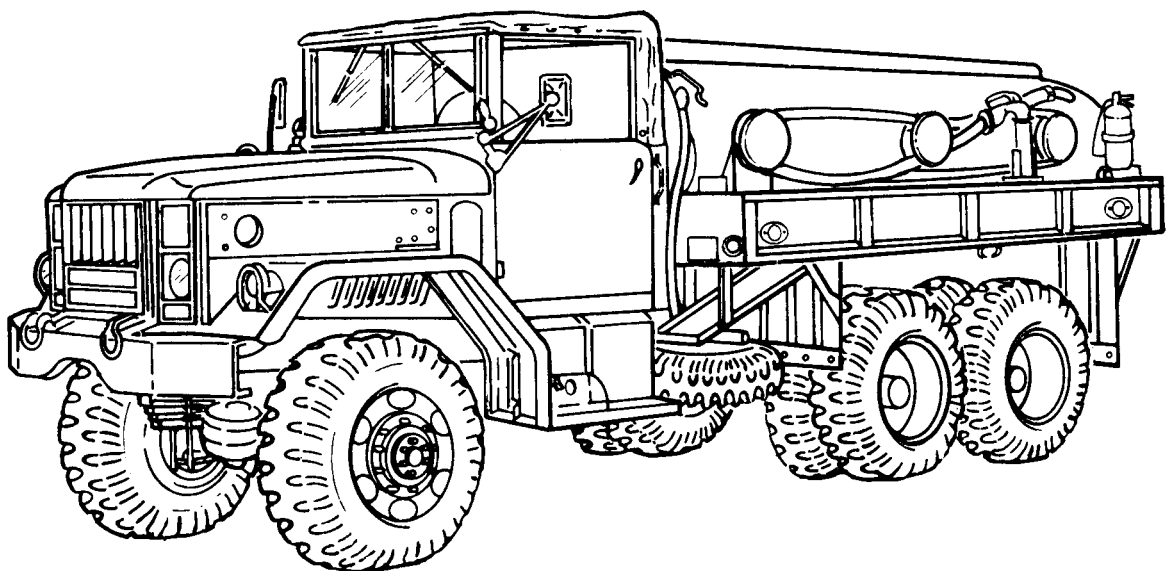
1-5. **METRIC SYSTEM.** The equipment/system described herein is nonmetric and does not require metric common or special tools. Therefore, metric units are not supplied. Tactical instructions, for sake of clarity, will also remain nonmetric.

1-6. **DESTRUCTION TO PREVENT ENEMY USE.** Follow procedures given in TM 750-244-6 for destruction of Army materiel to prevent enemy use.



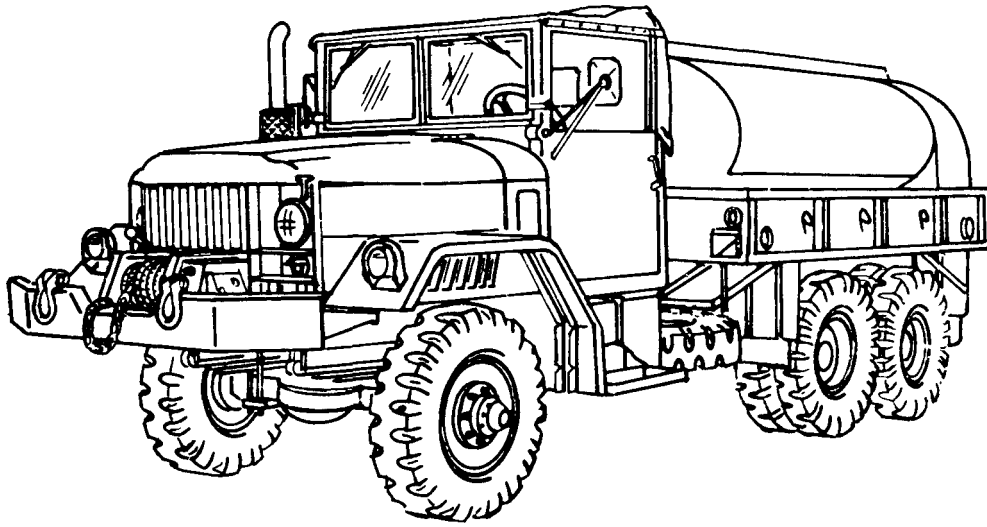
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Figure 1-1. Typical 2 1/2-Ton 6x6 Cargo Truck (M35A1, M35A2, M35A2C, M36A2) .



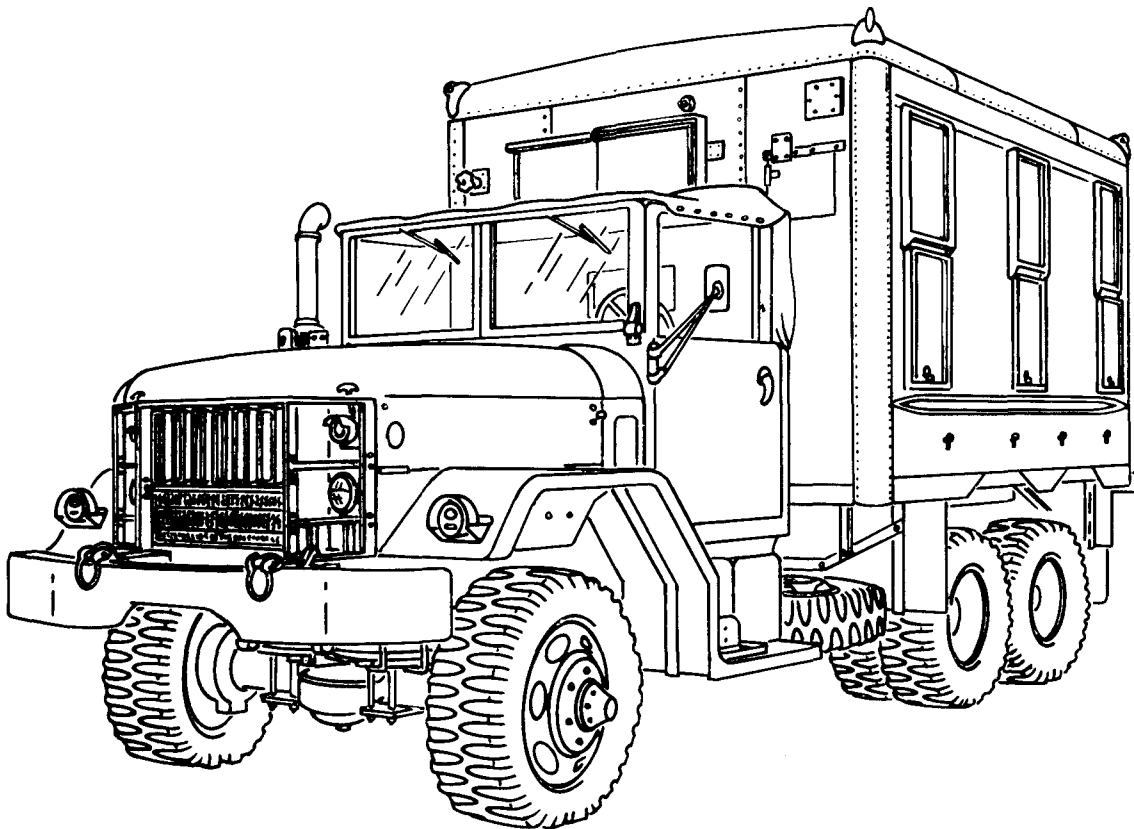
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Figure 1-2. Typical 2 1/2-Ton 6x6 Fuel Servicing Tank Truck (M49A1C, M49A2C).



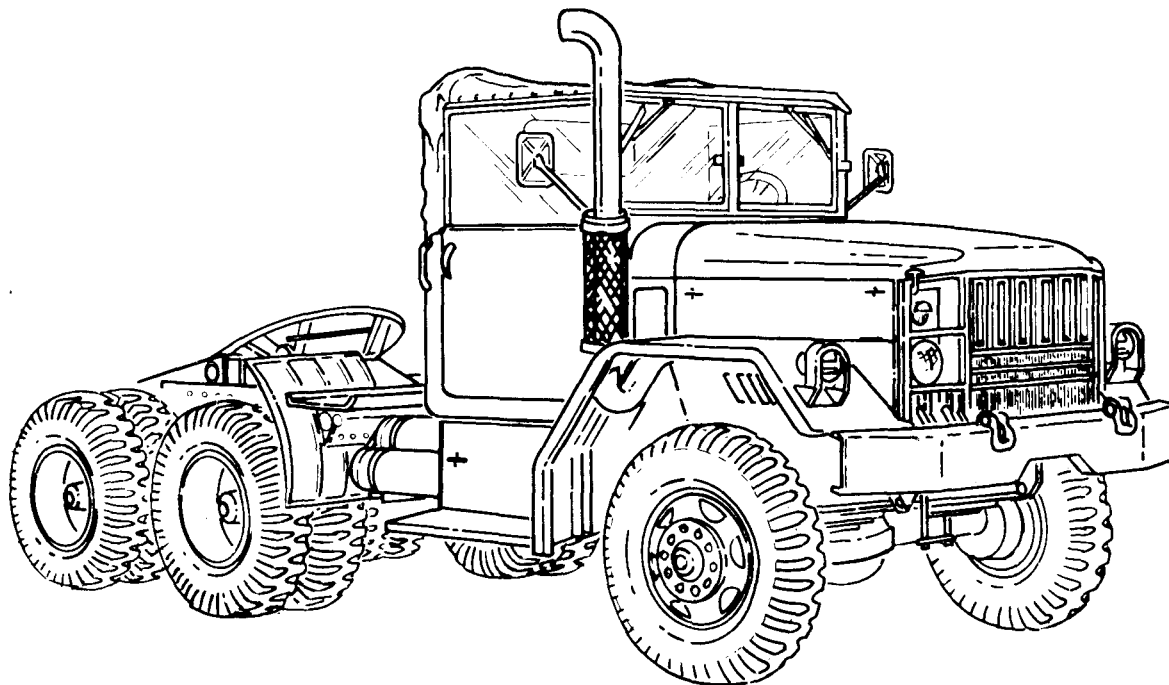
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Figure 1-3. Typical 2 1/2-Ton 6x6 Water Tank Truck (M50A1, M50A2, M50A3).



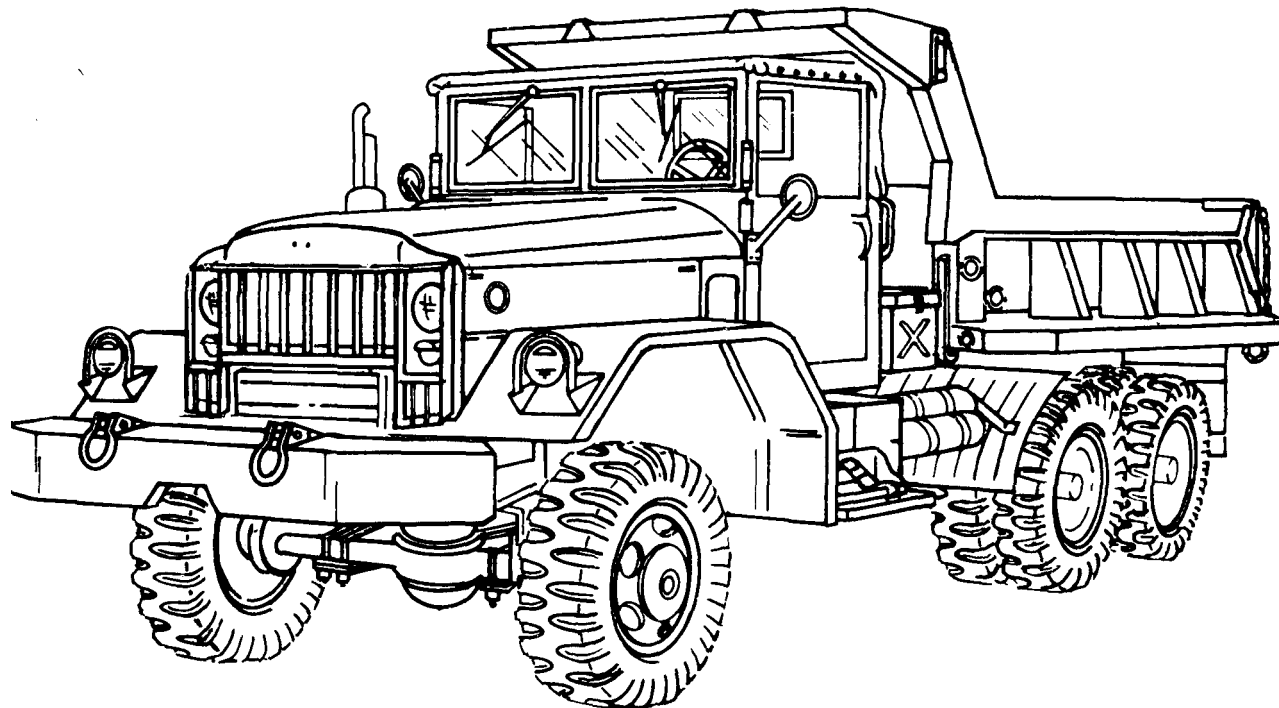
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Figure 1-4, Typical 2 1/2-Ton 6x6 Truck Mounted Instrument Repair Shop (M185A2, M185A3) or Truck Mounted Van (M109A2, M109A3).



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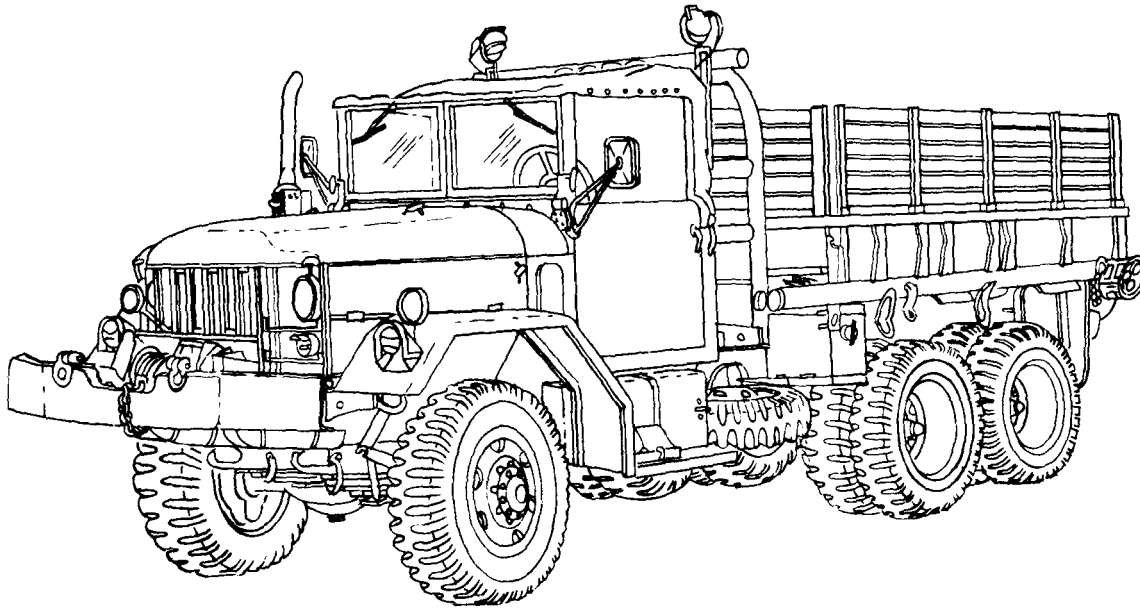
Figure 1-5. Typical 2 1/2-Ton 6x6 Tractor Truck (M275A1, M275A2) .



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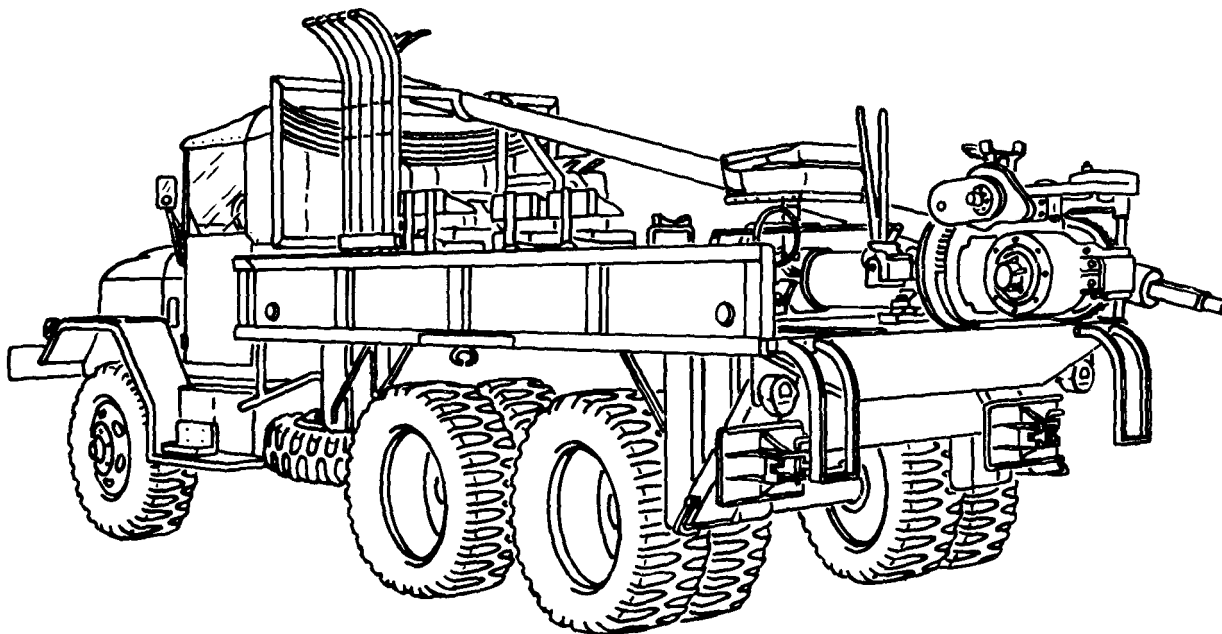
Figure 1-6. Typical 2 1/2-Ton 6x6 Dump Truck (M342A2).





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Figure 1-7. Typical 2 1/2-Ton 6x6 Pipeline Construction Truck (M756A2).



TA 044893

Figure 1-8. Typical 2 1/2-Ton 6x6 Earth Boring Machine and Polesetter Truck (M764)

1-7. **MANUAL ORGANIZATION.** This manual is divided into four volumes. Volumes are divided into chapters and sections depending on the amount of subject material. The content of each volume is as follows:

Volume 1. TM 9-2320-209-10-1, Operation, Installation, and Reference Data.

Volume 2. TM 9-2320-209-10-2, Scheduled Maintenance.

Volume 3. TM 9-2320-209-10-3, Troubleshooting.

Volume 4. TM 9-2320-209-10-4, Maintenance.

1-8. **VEHICLE /BRIDGE CLASSIFICATION.** Refer to table 1-1 and find your vehicle class number. Table columns are marked as follows:

E - Class number of vehicle with no payload.

C - Class number of vehicle with cross-country payload.

H - Class number of vehicle with highway payload.

a. Bridges along your route may be marked with a class number. The bridge class number shows the safe capacity of the bridge. If your vehicle class number is equal to or less than the bridge class number, the bridge will hold your vehicle. If your vehicle class number is greater than the bridge class number, your vehicle is too heavy for the bridge; **DO NOT CROSS.**

b. For more information refer to FM 5-36.

Table 1-1. Vehicle Class Information

Vehicle	Model	NSN	Class Number		
			E	C	H
Cargo	M35A1	2320-00-542-5633 and	5	8	10
		2320-00-542-5634	5	8	10
	M35A2	2320-00-077-1616 and	6	8	11
		2320-00-077-1617	6	8	11
M35A2C	2320-00-926-0873 and	6	8	10	
	2320-00-926-0875	6	8	11	
	M36A2	2320-00-077-1618 and	6	8	11
		2320-00-077-1619	6	9	11
Fuel Tank	M49A1C	2320-00-440-3349 and	6	8	11
		2320-00-440-3346	7	9	11
	M49A2C	2320-00-077-1631 and	6	8	11
		2320-00-077-1632	6	9	11
Water Tank	M50A1	2320-00-440-8307 and	7	9	11
		2320-00-440-8305	7	9	11