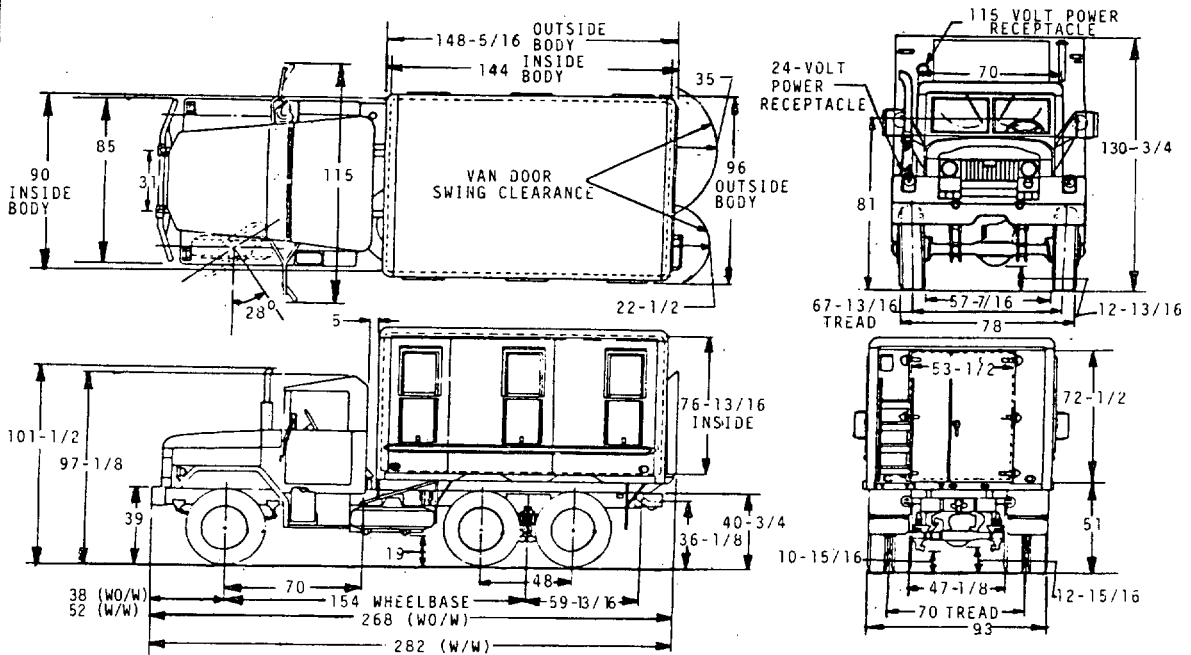


FED. SUP CLASS  
2320

REVIEWER ACTIVITIES AF-84



## VEHICLE CHARACTERISTICS

MODEL: M109A3 CHASSIS; M45A2

CHASSIS: W/WINCH, 8736575  
W/O/WINCH, 8736574CURB WEIGHT: FULLY EQUIPPED  
LESS PAYLOAD AND CREW.

	W/O/W	W/W
FRONT AXLE	6210	6865
BOGIE	9070	8935
TOTAL LBS.	15280	15800

ELECTRICAL SYSTEM: INST'N 10896818

POTENTIAL, 24 VOLT  
BATTERIES, TWO, 12 VOLT, 6TN  
MS35000-4

REFLECTORS:

RED, FOUR MS35387-1  
AMBER, FOUR MS35387-2

ENGINES: COMPLETE

MODEL: LDT-465-1C, MULTIFUEL WITH ACCESSORIES &amp; CLUTCH SIX CYLINDERS IN LINE

TRANSMISSION ASSY: W/O/W 10872096  
W/W 10872194

TYPE: SYNCHROMESH

FORWARD SPEEDS: 5, REVERSE: 1  
FORWARD GEAR RATIOS: 5.02, 2.78,  
1.62 1.00:1, 0.79:1  
REVERSE GEAR RATIO: 4.90:1

PERFORMANCE:

	W/O/DIESEL	W/LOAD	W/LOAD
MAXIMUM SPEED	56 MPH	45 MPH	45 MPH
MAXIMUM GRADE	60%	45%	45%
CRUISING RANGE	300 MILES	275 MILES	275 MILES

ADDITIONAL EQUIPMENT AVAILABLE:

FORDING KIT 11609777  
CLOSURE ASSEMBLY, HARDTOP 7354276

(B) ENTIRE STANDARD REVISED

MS PART NO.	ENGINEERING DRAWING NO.	DESCRIPTION
MS500085-1	8736570	WITH WINCH
MS500085-2	8736569	LESS WINCH

P.A. ARMY-AT  
Other Cust  
AF-99

TITLE

TRUCK, VAN: SHOP TYPE,  
MILITARY MODEL, M109A3  
2-1/2 TON, 6x6, 154 INCH WHEELBASE

MILITARY STANDARD

MS500085

PROCUREMENT SPECIFICATION  
MIL-T-46780

SUPERSEDES:

SHEET 1 OF 2

DD FORM 672-1  
1 SEP 57

FULLY COORDINATED

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

APPROVED 27 OCTOBER 1967 REVISED (B) 6 MAY 85

This military standard is approved for use by the US Army Tank-Automotive Command, Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense.  
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

FED. SUP CLASS  
2320

## VEHICLE CHARACTERISTICS

PAYLOAD:  
LOADED 5000 LBS. 5000 LBS

GROSS WEIGHT: FULLY EQUIPPED, PLUS  
\*\*PAYLOAD LESS CREW.

	WO/W	W/W
FRONT AXLE	6370	7025
REAR BOGIE	13910	13775
TOTAL LBS	20280	20800

\*\*ADD 400 LBS, FOR 2 MAN CREW W/EQUIPMENT.

TOWED LOAD MAXIMUM:

	WO/W	W/W
LOADED	6000 LBS	6000 LBS

(REFERENCED WEIGHTS ARE FOR INFORMATION ONLY.)

\*FORDING DEPTH: W/KIT 72 INCHES  
WO/KIT 30 INCHES

BODY ASSEMBLY: COMPLETE 7092493  
BODY ASSEMBLY, VAN 10872357  
BODY SPECIFICATION MIL-B-11315  
BODY ASSEMBLY 10871946  
VAN TYPE WITH WHEEL HOUSING.  
ALL STEEL INSULATED BODY, WATER TIGHT UP TO THE FORDING LINE, 10 INCHES ABOVE THE FLOOR LINE. EACH BODY AND EQUIPMENT SHALL BE CAPABLE OF OPERATING IN AN AMBIENT AIR TEMPERATURE RANGE OF -65°F TO 125°F. PROVIDES MOBILE FACILITIES FOR MAINTENANCE AND REPAIR FOR VARIOUS SERVICES. LIFT RINGS ARE INSTALLED AT UPPER CORNERS BY WHICH AN UNLOADED BODY MAY BE LIFTED. HEATING AND VENTILATING ACCESSORIES ARE AVAILABLE TO PROVIDE SATISFACTORY WORKING CONDITIONS IN TEMPERATURES FROM +125°F TO -65°F. A VEHICLE BOARDING LADDER IS FURNISHED FOR EASE OF ENTRANCE.

CAB: THREE MAN CAPACITY, STEEL CONSTRUCTION, SAFETY GLASS THRUOUT. SOFT TOP CAB IS STANDARD. HARD TOP CAB IS AVAILABLE AS AN ALTERNATE, ADDITIONAL EQUIPMENT.

ELECTRICAL SYSTEM: THE BODY IS EQUIPPED WITH TWO 24 VOLT D.C. POWER CIRCUITS AND ONE 115 VOLT A.C. POWER CIRCUIT. AN EXHAUST BLOWER IS LOCATED ON THE BODY INSIDE REAR PANEL AND AT LEFT SIDE OF REAR DOORS. AN A.C. TO D.C. CONVERTER IS MOUNTED DIRECTLY ON BODY INSIDE FRONT PANEL. CONVERTER CHANGES 115 VOLT A.C. POWER TO 24 VOLT D.C. POWER FOR EXHAUST BLOWER. THERE ARE FIVE, 115 VOLT DOME LIGHTS ONE BLUE LENSED 115 VOLT BLACKOUT DOME LIGHT, AND TWO 24 VOLT DOME LIGHTS. WIRING, INST 'N 7092501

MASTER CYLINDER & ASSY. 10871533-1

TRANSFER CASE:  
TRANSFER TRANSMISSION & CONTROLS INST 'N 10937636  
11609224  
TRANSFER TRANSMISSION:  
GEAR RATIOS HIGH 1:1 LOW 1.98:1

FRONT SUSPENSION: INST 'N 10872040  
7521734-1  
FRONT AXLE 11601335  
FRONT SPRINGS, TWO 7539007  
SHOCK ABSORBERS, TWO

REAR SUSPENSION: INST 'N 8757725  
7368511  
REAR AXLE, TWO 7521792  
REAR SPRINGS, TWO 8757685  
TORQUE ROD ASSY., SIX

FRAME ASSY: CHASSIS 11609279

TIE DOWNS: W/WINCH, 18  
LOCATION, 7 EACH SIDE 11647735  
SHACKLES, TWO FRONT, TWO REAR 7539662

WHEELS: 10 PLUS ONE SPARE 7389620  
INCLUDING RING, SIZE, 20 X 7.5,  
6-1/4 OFFSET MS53045-3

TIRES: TEN PLUS ONE SPARE,  
SIZE 9.00 X 20, 8 PLY, MDCC  
STYLE A, MIL-T-12459

TUBES: ZZ-1-550

CAB ASSY: SOFT TOP 10896757

MIRROR ASSY: REAR VIEW 10937793

STEERING: INST 'N 10897162

FUEL SYSTEM: INST 'N 10897080

EXHAUST SYSTEM: INST 'N 11677097

INSTRUMENT PANEL: INST 'N 10937450

TACHOMETER: INST 'N 10896303

SPEEDOMETER: INST 'N 10937442

THROTTLE LINKAGE: INST 'N 10896671-1

AIR CLEANER: INST 'N 10396886-1

PROPELLER SHAFT: INST 'N 10871516

HAND BRAKE: INST 'N 11609817

WINCH: INST 'N 10872197  
6100 LBS CAPACITY, 7538687

PINTLE: 7722050-1

PINTLE HOOK: 11609011

AIR: INST 'N 11647737

HYDRAULIC: INST 'N 10937705-1

CLUTCH PEDAL: INST 'N 8757745

## NOTES:

1. DIMENSIONS ARE IN INCHES AND ARE SHOWN FOR ENGINEERING REFERENCE ONLY.
2. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
3. THIS VEHICLE SHALL BE IN ACCORDANCE WITH REFERENCED ENGINEERING DRAWINGS, COPIES WHICH MAY BE OBTAINED FROM: US ARMY-AUTOMOTIVE COMMAND, WARREN, MICH. 48090.
- \*4. SUBJECT OF NATO STANAG 2805-(EDITION 3). DO NOT REVISE OR CHANGE.

(B) ENTIRE STANDARD REVISED

P.A. ARMY-AT Other Cust AF-99	TITLE <b>TRUCK, VAN: SHOP TYPE, MILITARY MODEL, M109A3 2-1/2 TON, 6x6, 154 INCH WHEELBASE</b>	<b>MILITARY STANDARD MS500085</b>
PROCUREMENT SPECIFICATION MIL-T-46780	SUPERSEDES	SHEET <b>2</b> OF <b>2</b>

DD FORM 672-1 FULLY COORDINATED  
SEP 57

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

APPROVED 27 OCTOBER 1967 REVISED 6 MAY 85