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# CHASSIS CHARACTERISTICS

USATACOM

**NOMENCLATURE: CHASSIS, TRUCK,  
5 -TON, 6X6, M812A1**

DATE: July 1985

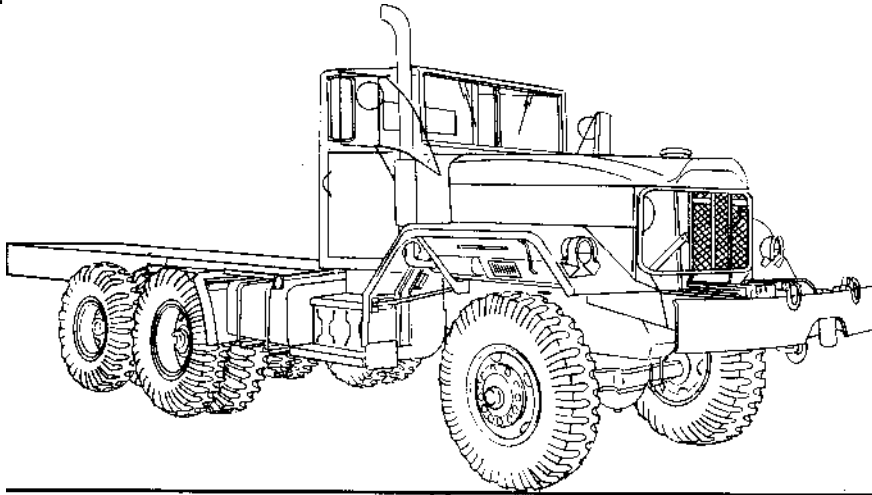
AMCTC NO. 8286 STATUS: STD-

ARMY PART NO. 8736876 (W/W)

A

NSN 2320-00-050-9040 (W/W)

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**DESIGNATIONS****CURB WEIGHT, FULLY EQUIPPED  
LESS PAYLOAD AND CREW**

Front .....  
Rear Bogie .....

Total ..... **PAYLOAD** (maximum including body)

**TOWED LOAD ALLOWANCE ..... SHIPPING DIMENSIONS**

Cubic Feet .....  
Square Feet .....

**LENGTH .....  
WIDTH (excluding mirrors) ..... HEIGHT**

Overall .....  
Reducible to Lowest Operable .....

**ANGLE OF APPROACH (loaded) .....**

**ANGLE OF DEPARTURE (loaded) ....**

**ANGLE OF BREAKOVER (loaded) .... MINIMUM TURNING RADIUS (wall to**

**TRACK** - Front - 76.7 In. Rear - 81.0 In.

**FORDING DEPTH** - 30.0 In. With Kit - 78.0 In.

**ENGINE**

Model - NHC-250 - 6 Cyl. In-Line - No. 11664325-1  
Compression Ignition Fuel Injection  
Displacement - 855 Cu. In. Bore and Stroke - 5.5 x 6  
Compression Ratio - 15.8:1 Fuel-Diesel, Octane/Cetane #40  
Horsepower: Gross 240 @ 2100 RPM; Net 210 @ 2100 RPM  
Torque: Gross 658 Lb-Ft @ 1500 RPM; Net 600 Lb-Ft @ 1500 RPM  
Crankcase Capacity: W/O Filter - 24.0 Qts.; W/Filter - 28.0 Qts.  
Governor: Type - Mechanical

Cooling System Capacity: 37.5 Qts., Pump Type Drive - 2 V-Belts  
Governed Speed: 2100 RPM at Full Load

**FUEL SYSTEM** - Fuel Tank Capacity - 78 Gals.; Fuel Pump, In-Tank; Fuel

Injection, Injection Pump No.  
3028791-3856.

**VEHICLE DATA  
W/W**

**CLUTCH** - Type - Single Dry Disc. Dia.

15 In. Effective Area 70.2 Sq. In.  
Pressure Plate No. 8735507; Driven ..... 10,355 Lbs.  
Member No. 11664387. .... 10,455 Lbs.

**TRANSMISSION** - Manual, No.

8333627-1. No. of Speeds - 5 Fwd, 1 ..... 20,810 Lbs.  
Rev; Ratios: 1st - 6.07:1; 2nd - 3.40:1; ..... 36,000 Lbs.  
3rd - 1.79:1; 4th - 1.00:1; ..... N/A  
5th - .78:1; Rev. - 6.09:1.

PTO - Openings - 2 SAE 6-Bolt, Each ..... 2,175

Side of Transmission. .... 297

Lubricant Capacity: W/PTO - 11.0 ..... 375.5 In.

Qts.; W/O PTO - 9.0 Qts. .... 114.0 In.

**TRANSFER CASE** - W/PTO, No.

10938322; No. of Speeds - 2, ..... 115.3 In.

Front: High - 1.07:1, Low - 2.16:1. .... 87.8 In.

Rear: High - 1.00:1, Low - 2.02:1

Control of Front Axle Drive - ..... 34°

Automatic Overrunning ..... 27°

Lubricant Capacity - 7.0 Qts. One ..... 29°

PTO Opening. **wall) .... 48.7 Ft.**

**AXLES** - Front: No. 11664292. Rear:

No. 8758349, Qty. - 2

Type - Single-Speed, Double Reduction, Ratio - 6.443:1

Lubricant Capacity - 12.0 Qts. Each.

**FRAME** - No. 11664504. Type - Rail Channel, Siderail Dimensions - 9 In. x

**DESIGNATIONS****VEHICLE DATA**

3 In. x 0.31 In.; Section Modulus 10.71 Cu. In.; No. of Crossmembers - 8;  
Reinforcement - .31 In. "1" Type; Combined Section Modulus - 24.4 Cu. In.

**FRONT SPRINGS** - No. 7411110; Size - 3 In. Wide x 50 In. Long;

No. of Leaves - 12; Rate - 2,271 Lb/In; Type - Semi-Elliptical;

Shock Absorbers - Direct Acting, Qty. - 2.

**REAR SPRINGS** - No. 7411114; Size - 4 In. Wide x 59.25 In. Long.

No. of Leaves - 15, Rate - 5,911 Lb/In; Type - Semi-Elliptical, Inverted, Qty. - 2.

**STEERING** - No. 11664535; Type - Hydraulic W/Power Assist; Ratio 23.4:1.

**TIRES W/FLAP AND TUBE** - Spec. MIL-T-12459; Size - 14.00 x 20 Load  
Rating - F; Tread Design - Non-Directional Cross-Country

No. Spares - 1; Tube - Spec. ZZ-I-550.

**WHEELS** - No. 7353762; Type - Steel Disc, 20 In. Dia. x 10 In. Wide; Ring No.  
7353671

Front - Single; Rear - Dual; Offset 8.87 In.

**BRAKES, SERVICE**

Type - Air-Assisted Hydraulic, Internal Expanding

Drum Size: Front & Rear - 16.5 In. Dia. x 5.5 In. Wide

Total Effective Area: Front - 339 Sq. In., Rear - 678 Sq. In.

**BRAKES, PARKING** - Type - Internal/External

Drum Size - 14 In. Dia. x 3 In. Wide; Effective Area - 68 Sq. In.

**ELECTRICAL SYSTEM** - Waterproofed, Radio Suppressed Per MIL-STD-461.

Potential - 24 Volts. Starting Motor - No. MS53011-1

Alternator - No. 10929868; Rating - 60 Amp.; Drive - 2 V-Belts

Batteries: Qty. - 4, Type - 12V - 6TN, No. MS35000-3. Trailer Coupling Socket -

No. 7363002. Turn Signal - Solid State; Flasher - No. 11613631; Control -

No. 11613632

Lighting: Headlamps No. 8741462. B.O. Driving Lamp No. 8747988. Composite

Lamps: Front - No. 11614156, Rear - No. 11614157

**\*PERFORMANCE** - Approx. 4.4 Miles Per Gallon. 350 Miles Cruising Range.

Gradeability: With GVW of 37,210 Lbs., Direct - 3.4%, Low - 60% Maximum

Speed - 60 MPH at Engine Governed Speed 2100 RPM.

**CAB** - Type: Std. - Canvas; Arctic - Hardtop Kit; Capacity - 2.

**WINCH** - No. 7412382; Capacity - 9,500 lbs.;

Wire Rope Cable - 0.625 In. Dia., Cable Length - 200 Ft.

**PINTLE** - N/A.

**TIEDOWNS** - 2 Front Lifting Shackles No. 12301040, 2 Rear Shackles

No. 7409523.

**ON-VEHICLE EQUIPMENT (OVE)**

Basic Issue Items - See Drawing No. 12300877

Additional Authorization List Items - See Drawing No. 12300998 **ACCESSORY**

**SUPPLEMENTAL KITS** - See Drawing No. 12300925.

\*W/Diesel Fuel - Type VV-F-800

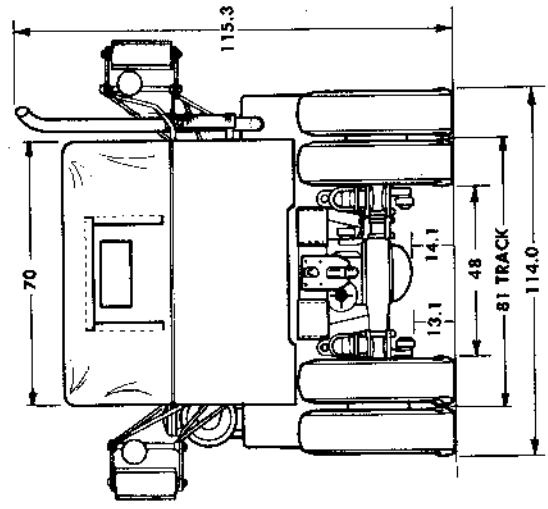
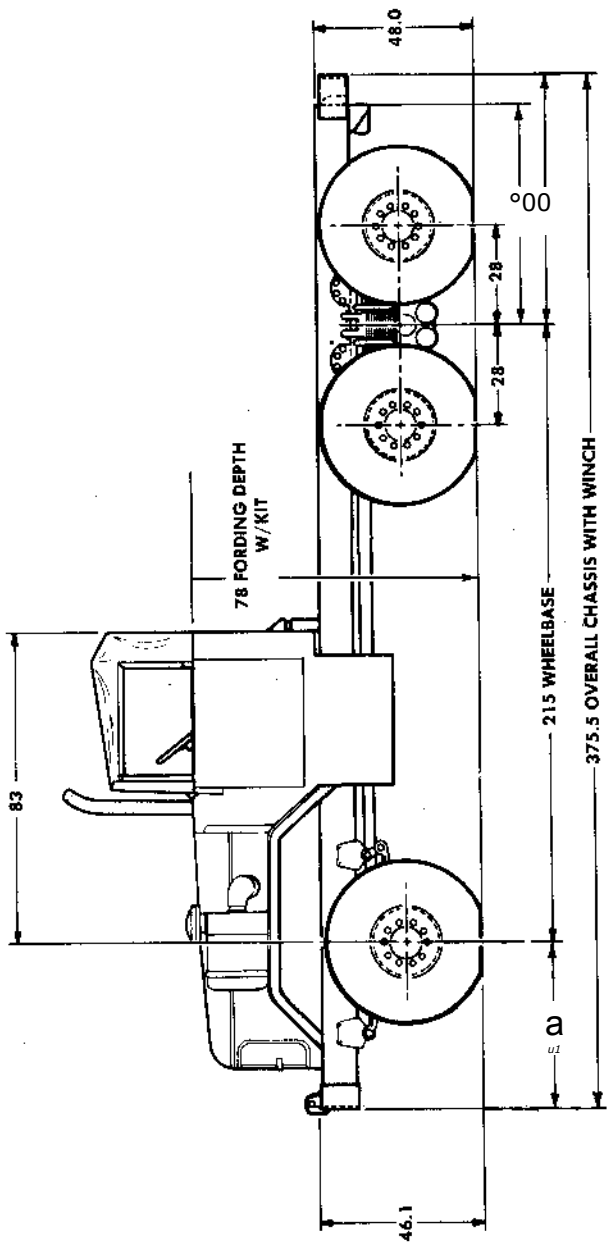
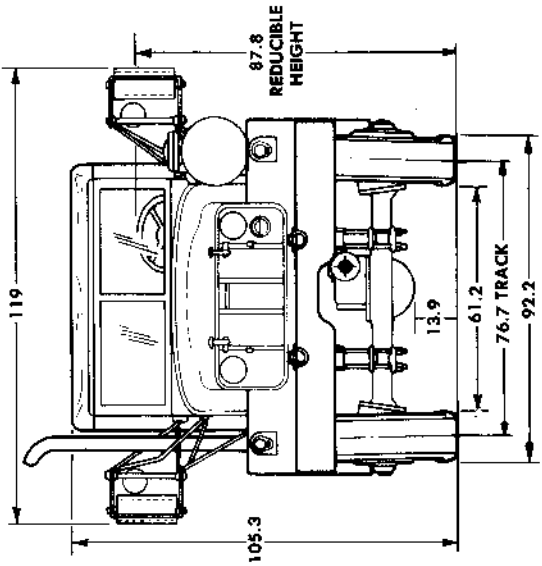
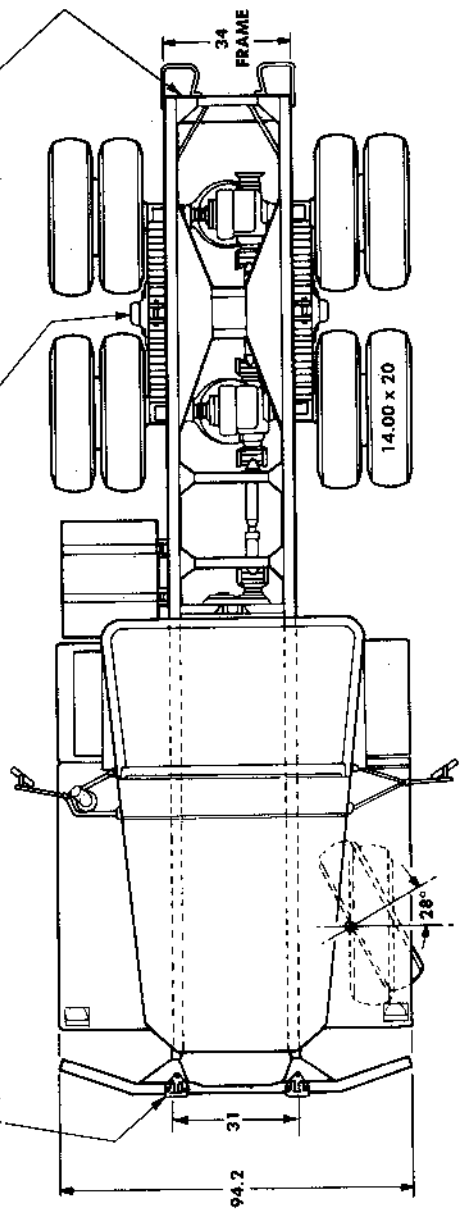
**U. S. ARMY TANK - AUTOMOTIVE COMMAND**

**WARREN, MICHIGAN 48397-5000**

2 SHACKLES (TIEDOWNS OR TRAILER CHAINS) 5,000 LBS. EACH

2 SLING POINTS 10,000 LBS. EACH

2 SHACKLES (TIEDOWNS OR SLING POINTS) 7,000 LBS. EACH



TRUCK CHASSIS:  
5-TON, 6 x 6  
M812A1 W/W

REFERENCE:  
VEHICLE DWG. NO.  
W/W 8736876 - 2320-00-050-9040

NOTE: ALL DIMENSIONS ARE WITH VEHICLE UNLOADED AND LEVEL