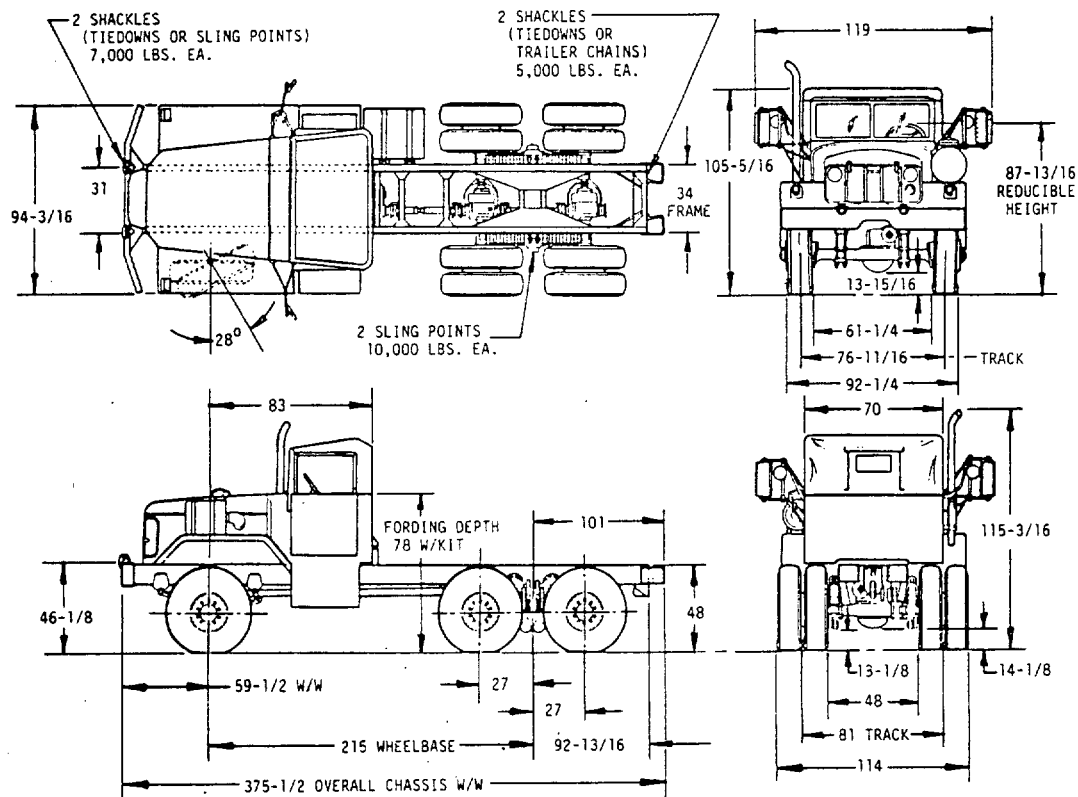


FED. SUP CLASS  
2320

## 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.

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P. A. ARMY-AT  
Other CustINTERNATIONAL  
INTEREST

TITLE

CHASSIS, TRUCK:  
5 TON, 6x6, M812A1.PROCUREMENT SPECIFICATION  
MIL-T-740

SUPERSEDES:

MS PART NO.	ENGINEERING DRAWING	DESCRIPTION
MS52180-I	8736876	WITH WINCH

MILITARY STANDARD

MS52180(AT)

SHEET 1 OF 2

APPROVED 3 MAY 85 REVISED

FED. SUP CLASS

2320

## VEHICLE CHARACTERISTICS

**CURB WEIGHT: FULLY EQUIPPED LESS PAYLOAD AND CREW** W/W  
 FRONT 10,355 LBS  
 REAR 10,455 LBS  
 TOTAL 20,810 LBS

**PAYLOAD: (MAX INCLUDING BODY)** 16,000 LBS

**TOWED LOAD ALLOWANCE:** NA

**SHIPPING DIMENSIONS:**  
 CUBIC FEET 2,175  
 SQUARE FEET 297

**ANGLE OF APPROACH: (LOADED)** 34°

**ANGLE OF DEPARTURE: (LOADED)** 27°

**ANGLE OF BREAKOVER: (LOADED)** 29°

**MINIMUM TURNING RADIUS: (WALL TO WALL)** 584-7/16

**FORDING DEPTH: WITH KIT 78 LESS KIT 30**

**ENGINE:**  
 6 CYL IN-LINE 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  
 CRANK CASE CAPACITY; W/O FILTER 24 QTS  
 W/FILTER 28 QTS  
 GOVERNOR; TYPE AUTOMATIC  
 COOLING SYSTEM CAPACITY; 37-1/2 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.

**CLUTCH: TYPE SINGLE DRY DISC DIA 15**  
 EFFECTIVE AREA 70.2 SQ IN  
 PRESSURE PLATE 8735507  
 DRIVEN MEMBER 11664387

**TRANSMISSION: MANUAL** 8333627-1  
 NO OF SPEEDS - 5 FWD, 1 REV; RATIOS;  
 1ST - 6.07; 2ND - 3.40; 3RD - 1.79;  
 4TH - 1.00; 5TH - .78; REV. - 6.09  
 PTO OPENINGS 2 SAE 6 BOLT, EACH SIDE  
 OF TRANSMISSION. LUBRICANT CAPACITY;  
 W/PTO 11 QTS; W/O PTO 9 QTS.

**TRANSFER CASE: W/PTO** 10938322  
 NO. OF SPEEDS 2 FRONT; HIGH - 1.07:1  
 LOW - 2.16:1; REAR; HIGH - 1.00:1;  
 LOW - 2.02:1 CONTROL OF FRONT AXLE  
 DRIVE, AUTOMATIC OVERRUNNING, LUB-  
 RICANT CAPACITY 7 QTS ONE PTO OPENING.

**PINTLE:** NA

**BRAKES: PARKING TYPE INTERNAL/EXTERNAL**  
 DRUM SIZE 14 DIA X 3 WIDE  
 EFFECTIVE AREA 68 SQ IN

**ACCESSORY/SUPPLEMENTAL KITS:** 12300925

**AXLES: FRONT** 11664292  
 REAR: 8758349  
 QTY 2, TYPE SINGLE SPEED DOUBLE REDUC-  
 TION RATIO 6.443:1, LUBRICANT CAPACITY  
 12 QTS EACH

**FRAME:** 11664504  
 TYPE RAIL CHANNEL SIDE RAIL DIMENSIONS  
 9 X 3 X 5/16 SECTION MODULUS 10.71 CU IN  
 NO. OF CROSSMEMBERS 8; REINFORCEMENT 5/16  
 L TYPE COMBINED SECTION MODULUS 24.4 CU IN

**FRONT SPRINGS:** 7411110  
 3 WIDE X 50 LONG NO OF LEAVES 12; RATE  
 2,271 LB/IN; TYPE SEMI-ELLIPTICAL;  
 SHOCK ABSORBERS DIRECT ACTING, QTY 2.

**REAR SPRINGS:** 7411114  
 SIZE 4 WIDE X 59-1/4 LONG NO. OF LEAVES  
 15, RATE 5,911 LB/IN; TYPE BEAM OVER SEMI-  
 ELLIPTICAL LEAF, QTY 2.

**TIRES W/FLAP AND TUBE:** MIL-T-12459  
 SIZE 14.00 X 20 LOAD RATING F  
 TREAD DESIGN NDCC NO. OF SPARES 1  
 TUBE ZZ-1-550

**WHEELS:** TYPE STEEL DISC, 7353762  
 SIZE 20 DIA X 10 WIDE RING 7353671  
 FRONT SINGLE, REAR DUAL, OFFSET 8-7/8

**BRAKES: SERVICE, TYPE AIR ASSISTED**  
 HYDRAULIC, INTERNAL EXPANDING DRUM  
 SIZE 16-1/2 X 5-1/2, EFFECTIVE AREA  
 FRONT 339 SQ IN REAR 678 SQ IN

**ELECTRICAL SYSTEM: WATERPROOFED, RADIO**  
 SUPPRESSED PER MIL-STD-461.  
 POTENTIAL 24 V STARTING MTR MS53011-1  
 ALTERNATOR 10929868  
 RATING 60 AMP; DRIVE 2 V BELTS  
 BATTERIES; QTY 4, TYPE 12V 6TN MS35000-3  
 TRAILER COUPLING SOCKET 7363002  
 TURN SIGNAL; SOLID STATE FLASHER

**CONTROL** 11613631  
 LIGHTING; HEADLAMPS 11613632  
 B.O. DRIVING LAMP 8741462  
 COMPOSITE LAMPS; FRONT 8747988  
 REAR 11614156  
 11614157

**PERFORMANCE: APPROX 4.4 MILES PER GALLON**  
 350 MILES CRUISING RANGE GRADEABILITY;  
 WITH GWV OF 37,210 LBS 4TH GEAR 3.4%  
 1ST 60% MAXIMUM SPEED 60 MPH AT ENGINE  
 GOVERNED SPEED 2100 RPM  
 W/DIESEL FUEL, TYPE VV-F-800

**CAB: TYPE STD CANVAS; ARCTIC HARDTOP**  
 KIT; CAPACITY 2.

**WINCH:** 7412382  
 CAPACITY 9,500 LBS  
 WIRE ROPE CABLE 0.6 IN DIA CABLE LENGTH  
 200 FT

**STEERING: TYPE HYD W/POWER ASSIST:**  
 RATIO 23.4:1 11664535

**TIEDOWNS: 2 FRONT LIFTING** 12301040  
 SHACKLES; 2 REAR SHACKLES 7409523

**ON-VEHICLE EQUIPMENT:**  
 BASIC ISSUE ITEMS 12300877  
 ADDITIONAL AUTHORIZED LIST ITEMS  
 12300998

APPROVED 3 MAY 85 REVISED

MS PART NO.	ENGINEERING DRAWING	DESCRIPTION
MS52180-1	8736876	WITH WINCH

P. A. ARMY-AT Other Cust	INTERNATIONAL INTEREST	TITLE <b>CHASSIS, TRUCK: 5 TON, 6x6, M812A1.</b>	<b>MILITARY STANDARD MS52180(AT)</b>
PROCUREMENT SPECIFICATION MIL-T-740	SUPERSEDES:	SHEET 2 OF 2	