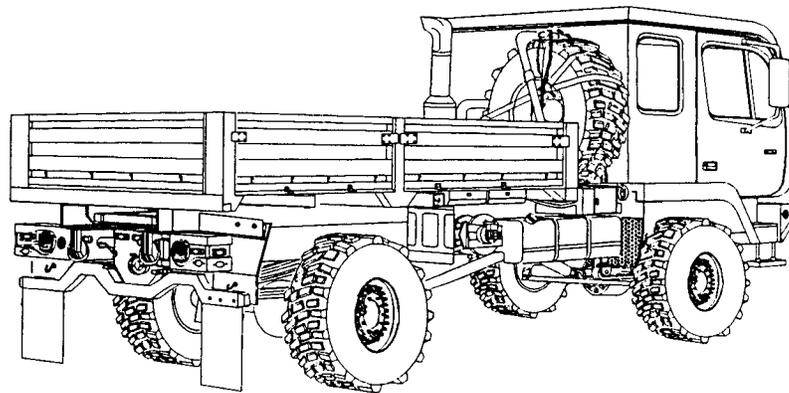


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LEFT FRONT VIEW



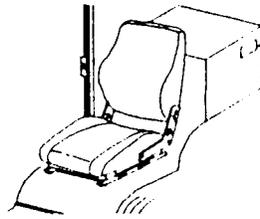
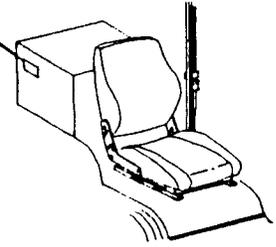
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RIGHT REAR VIEW

Figure 1-1. M1078 Truck, Cargo: 2 1/2-Ton, 4x4, Dropside

c. All Vehicles, Interior (Cont).

DRIVER'S SIDE STORAGE BOX	
QTY	ITEM
6	NBC OVERGARMENT SUITS
6 PR	NBC GLOVES
3	NBC HOODS



CO-DRIVER'S SIDE STORAGE BOX	
QTY	ITEM
1	M9 CHEM AGENT DETECTOR PAPER
6 PR	NBC OVERBOOTS
3	NBC MASKS
1	M256 PORTABLE DETECTOR KIT
1	FIRST AID KIT

**WEIGHT AND DIMENSIONAL DATA**  
TRUCK, CARGO: LMTV, M-1078

**DIMENSIONS**

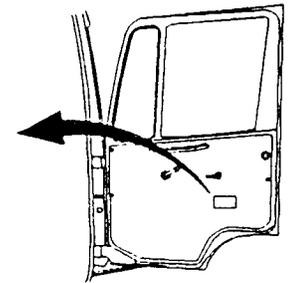
INCHES / MM

**TIE-DOWN SCHEMATIC**  
NOTE: ONLY USE TIE-DOWN POINTS SHOWN ABOVE

SHIPPING CUBAGE: 1582 CU FT / 44.8 CU M

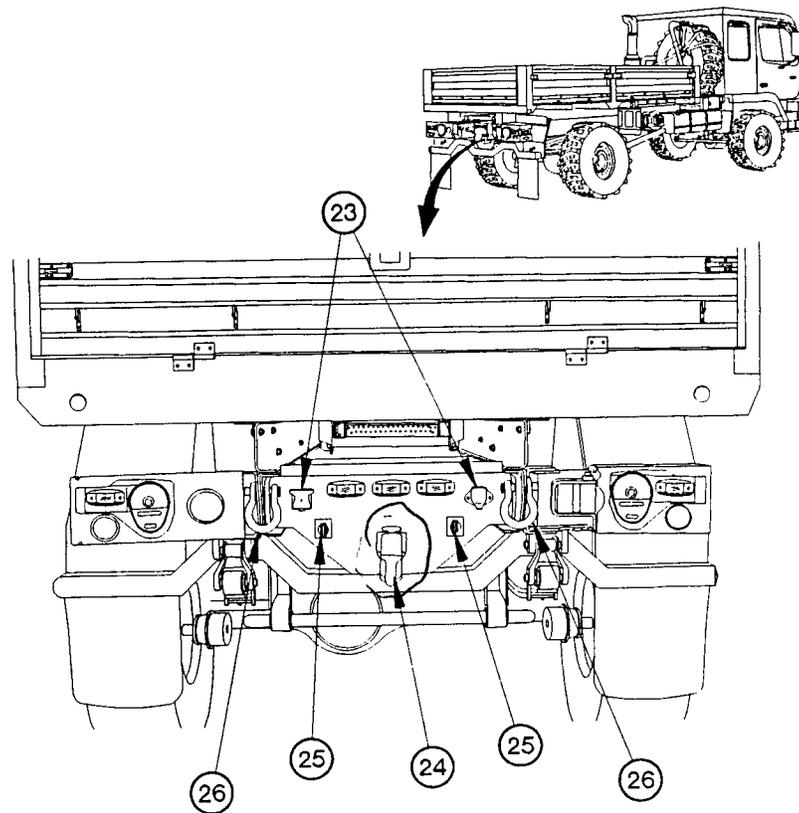
NOTE: TO REDUCE CAB HEIGHT REFER TO AIR TRANSPORT PROCEDURES IN TM 9-2320-365-10.

WEIGHTS		FRONT AXLE	REAR AXLE	TOTAL WEIGHT	C.G. DISTANCE		MAXIMUM PAYLOAD 2.5 TONS/2268 KG
					A	B	
CURB	LB	10992	6224	17216	IN	110	TIRE DATA MAXIMUM COLD PRESSURE 95 PSI MAXIMUM SPEED 55 MPH/88 KMH
	KG	4986	2823	7809	MM	2795	
GROSS	LB	11969	10247	22216	IN	125	TURNING RADIUS 35 FT / 11 M WALL TO WALL
	KG	5429	4648	10077	MM	3175	



(RIGHT DOOR)

(TYPICAL)



Hitch  
34 1/4" off  
ground

1A11A06A

Figure 1-5. Common Vehicle Components Location (Cont)

- (23) **REAR ELECTRICAL CONNECTORS.** Two connectors (24 vdc/12-pin and 12-vdc/7-pin) that supply electrical power to a trailer or a towed vehicle through an intervehicular cable.
- (24) **PINTLE HOOK.** Hook used for towing a trailer.
- (25) **REAR GLADHANDS.** Allows connection of brake air supply between vehicles or between the towing vehicle and the trailer during towing operations.
- (26) **REAR TOW EYES/SHACKLES.** Provides attachment points for towing.

**1-12. DIFFERENCES BETWEEN MODELS (CONT)**

Table 1-1. Differences Between Models (Cont)

FEATURE	M1078	M1079	M1080	M1081
<b>SPECIAL PURPOSE KITS<sup>2</sup></b>				
Van Body Heater Kit		X		
200 Amp Alternator Kit	X	X	X	X
<b>WHEELBASE</b>				
217 in. (550 cm)	X	X	X	X

**1-13. EQUIPMENT DATA**

a. Table 1-2. Vehicle Dimensions provides overall dimensions for the M1078 series vehicles.

Table 1-2. Vehicle Dimensions

Vehicle	Overall Length	Overall Width	Overall Height
Truck, Cargo, M1078	20 ft 11 in. (6.4 m)	8 ft (2.4 m)	9 ft 4 in. (2.8 m)
Truck, Van, M1079	21 ft 11 in. (6.7 m)	8 ft (2.4 m)	11 ft 10 in. (3.6 m)
Truck, Chassis, M1080	20 ft 11 in. (6.4 m)	8 ft (2.4 m)	9 ft 4 in. (2.8 m)
Truck, Cargo, Air Drop, M1081	20 ft 11 in. (6.4 m)	8 ft (2.4 m)	9 ft 4 in. (2.8 m)

<sup>2</sup> Vehicles may or may not be equipped with special purpose kits. If an "X" appears under model number, it means that special purpose kit is available for vehicle model.

b. Table 1-3. Vehicle Weights and Payloads provides information regarding the weight and payload of the M1078 series vehicles.

Table 1-3. Vehicle Weights and Payloads

Vehicle	Curb Weight <sup>3</sup>	Payload	Maximum Towed Load <sup>4</sup>
Truck, Cargo, M1078	17,770 lbs (8,068 kgs)	5,000 lbs (2,270 kgs)	9,520 lbs (4,322 kgs)
Truck, Van, M1079	18,834 lbs (8,550 kgs)	5,000 lbs (2,270 kgs)	9,500 lbs (4,322 kgs)
Truck, Chassis, M1080	17,861 lbs (8,097 kgs)	5,000 lbs (2,270 kgs)	9,520 lbs (4,322 kgs)
Truck, Cargo, Air Drop, M1081	18,764 lbs (8,519 kgs)	5,000 lbs (2,270 kgs)	9,520 lbs (4,322 kgs)

**WARNING**

Do not exceed maximum vehicle speed and grade limitations during normal operations. Do not exceed maximum approach or departure angles or ford water greater than maximum depth. Failure to comply may result in serious injury or death to personnel.

c. Table 1-4. Vehicle Performance Data provides information that is applicable to all M1078 series vehicles.

Table 1-4. Vehicle Performance Data

Maximum Speed	Cruising Range	Maximum Grade	Maximum Approach Angle	Maximum Departure Angles	Maximum Fording Depth
55 mph (88 km/h)	300 mi (480 km)	60 percent	40 degrees	40 degrees	30 in. (76 cm) (without fording kit)

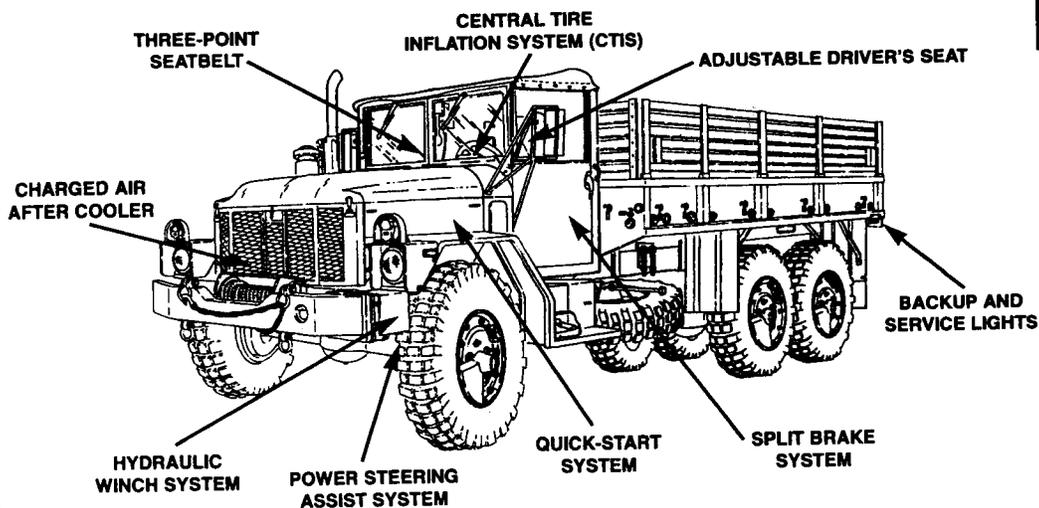
<sup>3</sup> Curb weight is defined as vehicle weight plus 404 lbs (183 kgs) of fuel weight and 606 lbs (275 kgs) of crew weight.

<sup>4</sup> Any M1078 series vehicle is capable of flat towing any other M1078 series vehicle.

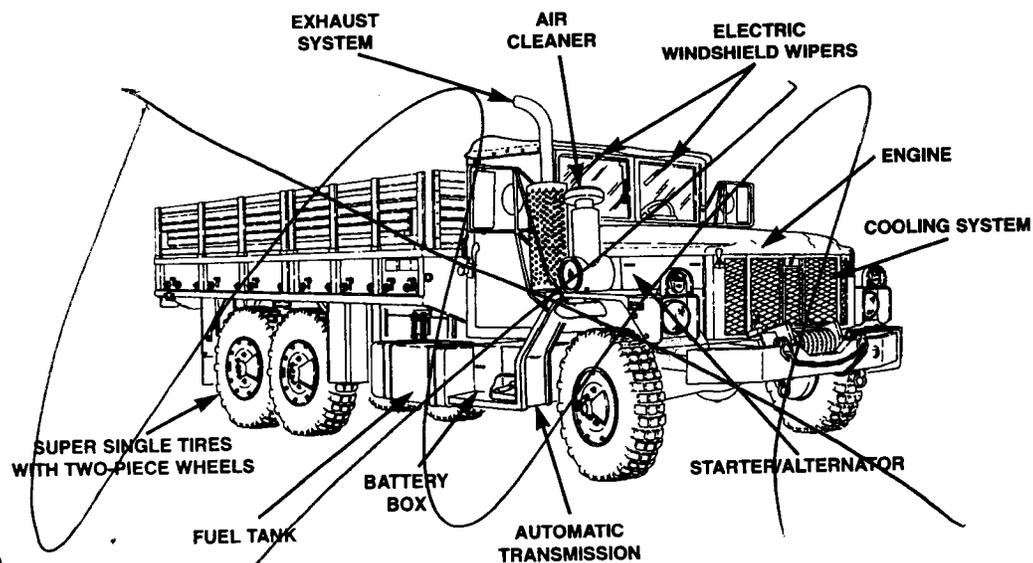
AL (Contd)

## CHAPTER 1 INTRODUCTION

Section I. General Information (page 1-2)  
Section II. Equipment Description (page 1-5)  
Section III. Principles of Operation (page 1-14)



**M35A3**



**M36A3**

**1-16. TABULATED DATA**

This paragraph lists vehicle weights, specifications, and performance data for easy reference by the operator.

*Table 1-3. Vehicle Weights.*

VEHICLE	CURB WEIGHT	PAYLOAD	TOWED LOAD	GROSS VEHICLE WEIGHT (GVW)
M35A3: W/W	14,600 lb (6,628 kg)	5,000 lb (2,270 kg)	6,000 lb (2,724 kg)	19,580 lb (8,889 kg)
WO/W	13,900 lb (6,311 kg)	5,000 lb (2,270 kg)	6,000 lb (2,724 kg)	18,900 lb (8,581 kg)
M35A3C: W/W	14,740 lb (6,692 kg)	5,000 lb (2,270 kg)	6,000 lb (2,724 kg)	19,700 lb (8,944 kg)
WO/W	14,040 lb (6,374 kg)	5,000 lb (2,270 kg)	6,000 lb (2,724 kg)	19,020 lb (8,635 kg)
M36A3: W/W	15,980 lb (7,255 kg)	5,000 lb (2,270 kg)	6,000 lb (2,724 kg)	20,960 lb (9,516 kg)
WO/W	15,280 lb (6,937 kg)	5,000 lb (2,270 kg)	6,000 lb (2,724 kg)	20,280 lb (9,207 kg)

*Table 1-4. Performance Data.*

VEHICLE	ANGLE OF APPROACH	ANGLE OF DEPARTURE	TURNING RADIUS	CRUISING RANGE
M35A3: W/W	40°	41°	36 ft (11 m)	375 mi (603 km)
WO/W	51°	41°	36 ft (11 m)	375 mi (603 km)
M35A3C: W/W	40°	41°	36 ft (11 m)	375 mi (603 km)
WO/W	51°	41°	36 ft (11 m)	375 mi (603 km)
M36A3: W/W	40°	25°	45 ft (14 m)	375 mi (603 km)
WO/W	51°	25°	45 ft (14 m)	375 mi (603 km)
	<b>GRADE CAPABILITY</b>	<b>SIDE SLOPE CAPABILITY</b>	<b>BRIDGE CLASSIFICATION</b>	
			<b>EMPTY</b>	<b>W/PAYLOAD</b>
All vehicles	60%	20%	6	8

whenever possible.  
many fuels are not  
lesirable.

Fuels.

**TEMPERATURE LIMITS**

Do not use below +32°F (0°C)

All temperatures

Do not use below -58°F (-50°C)

Do not use below -51°F (-46°C)

Do not use below +15°F (-9°C)

Fuels outside of vehicle  
adding fuels to fuel  
ustible and may

Emergency fuel, add 10%  
ormance. Failure to add  
is, clogging of fuel fil-

Do not use below -72°F (-58°C)

**1-13. DIFFERENCES BETWEEN MODELS**

This table shows major equipment and component differences between models of ESP vehicles, arranged in a tabular format for easy referencing by operators.

Table 1-1. Differences Between Models.

EQUIPMENT/FUNCTION	M35A3	M35A3C	M36A3
Personnel/Cargo Operations	X	X	X
Front Winch	X	X	X
Wheelbases:			
154 in. (391 cm)	X	X	
190 in. (483 cm)			X
Body:			
Cargo Dropside		X	
Cargo (Permanent Sides)	X		X
Fuel Tank:			
Single Tank			
50 gal. (189 L)	X	X	X
Tires:			
14.5R20 XL	X	X	X
Length Overall:			
With Winch			
278.3 in. (707 cm)	X	X	
343 in. (871 cm)			X
Without Winch			
264.3 in. (671 cm)	X	X	
329 in. (836 cm)			X
Width Overall:			
96 in. (244 cm)	X		X
97.8 in. (248 cm)		X	
Ground Clearance:			
13 in. (33 cm)	X	X	X
Transmission:			
Automatic	X	X	X
Central Tire Inflation System	X	X	X

Mitch 34 1/4" off ground

**1-14. EQUIPMENT**

- CAPACITIES**

  - Cooling System:
    - Dry . . . . .
    - Drain and Refill. . . . .
  - Engine Crankcase:
    - Dry . . . . .
    - W/Filter . . . . .
    - WO/Filter . . . . .
  - Fuel Tank . . . . .
  - Transmission:
    - Dry . . . . .
    - Drain and Refill. . . . .
    - After Rebuild. . . . .
  - Front Winch:
    - Winch Gearcase . . . . .
    - Winch End Frame . . . . .
    - Winch Hydraulic R . . . . .
    - Dry . . . . .
    - Drain and Refill . . . . .
  - Master Cylinder Rese . . . . .
  - Front and Rear Axle . . . . .
  - Drain and Refill . . . . .
  - Transfer Case:
    - Drain and Refill . . . . .
  - Steering Gear:
    - Drain and Refill . . . . .
- ENGINE**

  - Manufacturer . . . . .
  - Model . . . . .
  - Type . . . . . Diesel
  - Weight . . . . .
  - Displacement . . . . .
  - Operating Speed (Fu . . . . .
  - Brake Horsepower . . . . .
  - Torque . . . . .
  - Oil Pressure . . . . .
  - Compression Ratio . . . . .
  - Fuel Consumption (A . . . . .
  - Firing Order . . . . .
- FUEL SYSTEM**

  - Fuel Pump Location . . . . .
  - Fuel Filter/Water Sep . . . . .
  - Manufacturer . . . . .