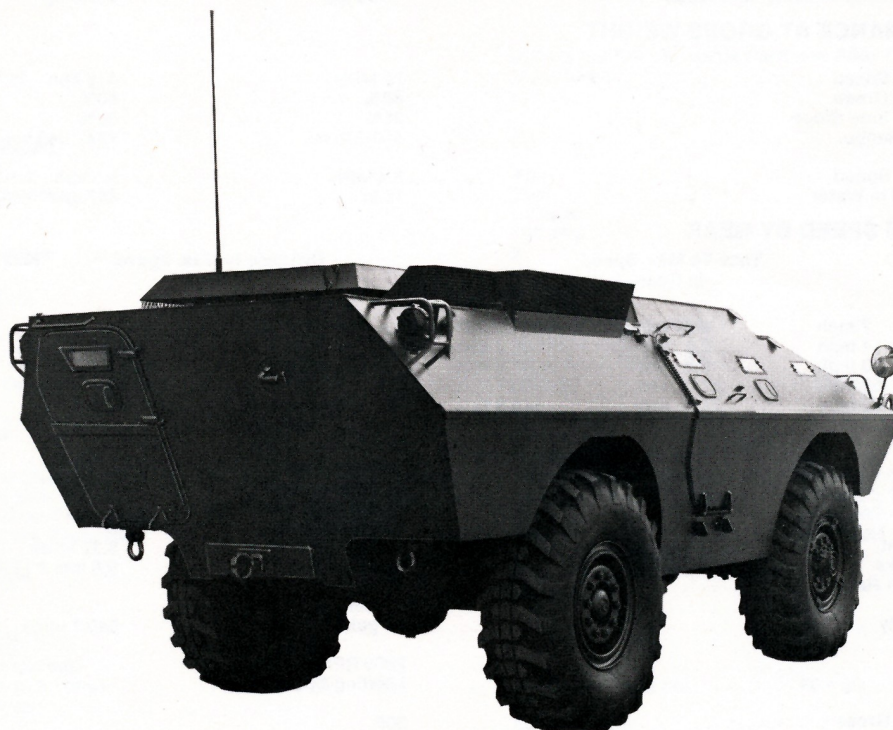




AM301 ARMORED PERSONNEL CARRIER



AM General Corporation 

VEHICLE ENGINEERING DATA

DIMENSIONS

	ENGLISH	METRIC
Wheelbase	110 in.	2794 mm
Overall Length	220 in.	5588 mm
Overall Width, Maximum	96 in.	2438 mm
Overall Height, No Load	84 in.	2133 mm
Inside Length of Body	219 in.	5563 mm
Inside Width of Body	95.3 in.	2421 mm
Inside Height of Body	56 in.	1422 mm
Body Floor to Ground, No Load	27.25 in.	692 mm
Frame Height to Ground, No Load	21 in.	533 mm
Spring Deflection, Normal Load:		
At Front Axle5 in. normal, 1.0 in. max.	12.7 mm normal, 25.4 mm max.
At Rear Axle5 in. normal, 1.0 in. max.	12.7 mm normal, 25.4 mm max.
Ground Clearances:		
Under Front Axle	15 in.	381 mm
Under Rear Axle	15 in.	381 mm
Under Chassis	27 in.	686 mm
Turning Radius:		
On Land	28.8 ft.	8778 mm
In Water	29.0 ft.	8839 mm
Tires:		
Front Track	78 in.	1981 mm
Rear Track	78 in.	1981 mm
Angle of Approach	60 degrees	
Angle of Departure	45 degrees	
Shipping Dimensions:		
Shipping Cube	1,027 ft. ³	29.06 m ³

WEIGHTS

Curb Weight, Vehicle Fully Equipped		
Less Payload And Personnel	19,000 lbs.	8,616.8 kg.
Gross Weight, Fully Equipped, Loaded	25,000 lbs.	11,338 kg.
Weight Allowance for Operating Personnel	400 lbs.	181.4 kg.
Payload Allowance	5,600 lbs.	2,540 kg.
Towed Load Allowance	10,000/25,000 lbs.	11,338 kg.
Weight of Fuel, Lubricants, and Water	1,450 lbs.	657.6 kg.

PERFORMANCE AT GROSS WEIGHT

On Land:		
Maximum Speed	72 MPH	116 kph
Maximum Grade	60%	60%
Maximum Side Slope	35%	35%
Cruising Range	450-650 mi.	724-1045 km
In Water:		
Maximum Speed	3.4 MPH	5.5 kph
Freeboard in Water	18 in.	457 mm

MAXIMUM SPEED BY GEAR

Gear	Time To Max. Speed in Gear		Distance to Max. Speed in Gear		Max. Gradeability in Gear
1	7 mph	0.91 sec	11.3 kph	5.0 ft.	60%
2	14 mph	2.5 sec	22.5 kph	29.0 ft.	48%
3	23 mph	6.0 sec	37.0 kph	120.0 ft.	16%
4	52 mph	27.0 sec	83.7 kph	1328.0 ft.	10%
5	72 mph	73.0 sec	115.9 kph	5606.0 ft.	3.5%

ENGINE

Model	D.D.A. 6-V-53T, Turbocharged (224 kw) @ 2800 RPM	
Type	Two-Cycle, V6	
Displacement	318 in. ³	5.22 litres
Bore & Stroke	3.875 x 4.5 in.	9.8 mm x 11.4 mm
Compression Ratio	17:1	
Fuel	Diesel	
Fuel Capacity	90 gals.	340.7 litres
Governor:		
Speed	2800 RPM	
Type	Limiting Speed	
Horsepower:		
Maximum Gross	300	
Maximum Net	270	
Crankcase Capacity	22 qts.	20.8 litres
Cooling System Capacity	52 qts.	49.2 litres
Fuel System	Injection	

VEHICLE ENGINEERING DATA

TRANSMISSION

	ENGLISH	METRIC
Model	Allison MT 653 DR	
No. of Speeds:		
Forward	5	
Reverse	1	
Input Torque Rating	480 lb-ft.	66.4 kg-m
Ratios: 1st	8.04	
2nd	3.58	
3rd	2.09	
4th	1.39	
5th	1.00	
Reverse	5.67	
Lubricant Capacity	15 qts.	14.2 litres

CHAIN CASE

Type	Single Speed	
Ratio	1.17:1	
Control of Front Axle	Manual	
Lubricant Capacity	24 qts.	22.7 litres

AXLES

Front:		
Type	Hypoid, Single Speed, Double Reduction, Full Locking	
Ratio	6.44:1	
Torque Rating	3,000 lb-ft.	414.8 kg-m
Lubricant Capacity	12 qts.	11.4 litres
Rear:		
Type	Hypoid, Single Speed, Double Reduction, Full Locking	
Ratio	6.44:1	
Torque Rating	3,000 lb-ft.	414.8 kg-m
Lubricant Capacity	12 qts.	11.4 litres

ARMOR

Type	250 Gauge XAR 30 Single Hardness Alloy Plate
Construction	Monocoque

ELECTRICAL

Waterproofed	Yes
Radio Suppressed	Yes
Potential	24 volts
Rating	100 amp
No. of Batteries	2

STEERING

Type	Hydraulic Power Assist	
Ratio	Variable Ratio of 19 = 24 = 19:1	
Lubricant Capacity	1.25 qt.	1.2 litres

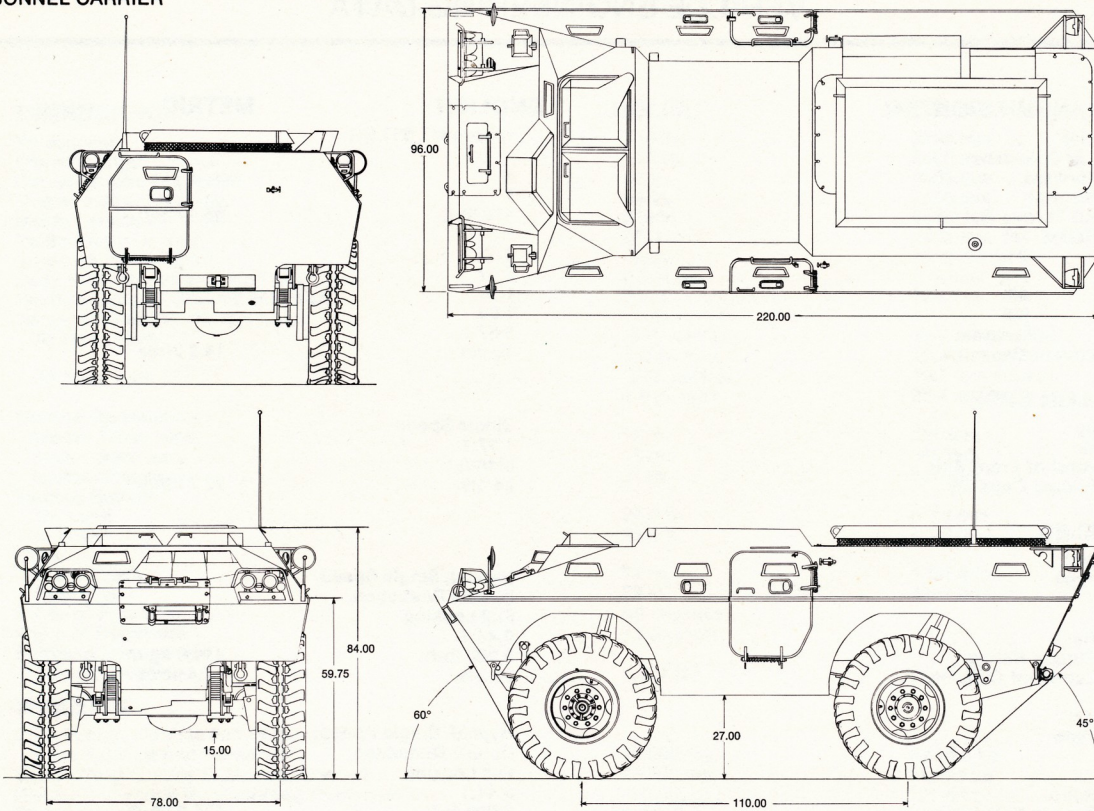
BRAKES

Type	Internal Expanding	
Size: Front (Dia. x Width)	16.5 dia. x 5.5 wide (in)	419 dia. x 140 wide (mm)
Size: Rear (Dia. x Width)	16.5 dia. x 5.5 wide (in)	419 dia. x 140 wide (mm)
Total Effective Area: Front	339 in. ²	2,187 cm ²
Total Effective Area: Rear	339 in. ²	2,187 cm ²
Actuation	Hydraulic Power Boosted	
Parking Type	Dual Grip Mounted on Chain Case	

SPRINGS

Front (2 Required):		
Size (Wide x Long)	3 wide x 56 long (in)	76 wide x 1422 long (mm)
No. Leaves	11	
Type	Elliptical Leaf	
Rear (2 Required):		
Size (Wide x Long)	3 wide x 56 long (in)	76 wide x 1422 long (mm)
No. Leaves	11	
Type	Elliptical Leaf	

**AM301 ARMORED
PERSONNEL CARRIER**



ON VEHICLE EQUIPMENT (O.V.E.)

1. Special Equipment — Three Bilge Pumps, 50 GPM (190 LPM)

2. Boxed in Vehicle

TOOLS

QUANTITY

Wrench Drain Plug	1
Wrench, Open End	1
Pliers, Slip Joint — 10"	1
Screwdriver, Flat Tip, 4"	1
Screwdriver, Flat Tip, 5"	1
Screwdriver, Phillips, 4"	1
Screwdriver, Phillips, 6"	1
Bag, Tool, Canvas, 10" x 20"	1
Bag, Pamphlet, Cotton Duck	1

PUBLICATIONS

Operator's Manual
Lubrication Order

AM General Corporation