

## M113A2

M113A2 APC, Armored Full Tracked Personnel Carrier NSN

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Upgrade of the A2 was of suspension and cooling enhancements in 1979.

General Specifications:

Length: 191.5"

Width: 105.75"

Height: 86.5"

Clearance: 16"

Weight: combat loaded 24,728 lbs, 11,253 Kg

Maximum weight: 31,000 lb. (14,061 kg)

Net weight: 21,608 lbs, 9,957 Kg

Personnel capacity: 2 + 11

Fuel tank capacity: 95 gallons (360 liters)

Ground pressure: 7.9 psi, 0.55 Kg/cm<sup>2</sup>

Performance:

Acceleration (0-20 mph) sec: 11.0

Speed on land, 37 mi/h (66 km/h)

Speed in water, with track 3.6 mi/h (5.8 km/h)

Cruising range, 300 mi (483 km)

Turning radius, 168 inches

Slope 60%

Side slope 40%

Trench crossing 66 in. (168 cm)

Vertical wall climbing 24 in. (61 cm)

Braking (20-0 mi/h) 40 ft.

Engine:

Make and model, Detroit Diesel Model 6V-53, 6-cylinder water-cooled diesel developing 212bhp at 2.800 rpm

Displacement, 318 in.3 (5.2 liter)

Fuel, Diesel (DF2)

Gross horsepower-to-weight ratio, 17.1

Transmission, Automatic:

Make and model, Allison X200-4B

Type, Hydrokinetic

Steering, Hydrostatic

Brake type, Multiple wet plate

Running Gear:

Suspension, Torsion bar

Road wheels, 5 per side, 24 inch diameter (61 cm)

Track type, Steel single pin, detachable rubber pad

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Number of shoes, 63 left, 64 right

Track pitch, 6 in. (15.2 cm)

Track width, 15 in. (38 cm)

Shock absorbers, 3 per side

Wheel travel, 9.0 in. (22.9 cm)

Electrical System:

Generator, Amperes 200, 300 optional

Volts, dc 28

Batteries 4, type 6TL, 120 amp-hr, 12-volt each

Armament:

50 cal MG 2,000 ready rds.

Armor:

Basic hull, 5083 Aluminum

Bolt-on armor kit, Steel armor

Mine armor, Steel armor

Gun shield kit, Steel armor

Spall suppressant, Composite panel

Fire Extinguishers:

Fixed 5 lb. (2.3 kg) CO2 for engine compartment

Portable 5 lb. (2.3 kg) CO2

### KEY RECOGNITION FEATURES:

- Box-shaped hull with front sloping at 60° to rear, horizontal roof, vertical hull rear with large power-operated ramp, vertical hull sides with no firing ports or vision devices.
- Driver's circular hatch front left with air louvres to right, commander's cupola with externally mounted 12.7 mm M2 HB in centre of roof with rectangular hatch to rear. External box-type fuel tanks each side of ramp on hull rear.
- Suspension each side has five road wheels, drive sprocket front, idler rear, no track-return rollers, upper part of track normally covered by rubber skirt.

### DEVELOPMENT:

M113 series full track APC was developed in late 1950's and first

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vehicles completed in 1960, powered by petrol engine.

M113 was replaced in production by diesel-powered M113A1 in 1964 which in turn was replaced by M113A2 with a number of automotive improvements. Latest model is M113A3 which entered service in 1987 and has many improvements including more powerful engine, spall liners and optional applique armour.

By 1999 over 76.000 M113's and its variants had been built, including about 4.500 built in Italy by OTOBREDA. Basic vehicle is fully amphibious, propelled in the water by its tracks. Before entering the water a trim vane is erected at front of hull and bilge pumps switched on.

### VARIANTS:

There are countless local modifications of M113, for example Israeli vehicles have additional armour protection and German vehicles have smoke grenade discharges on hull front and 7.62 mm M2 HB MG. The following list is by no means exhaustive.

M113 with dozer blade, M106 107 mm mortar carrier, M125 81 mm mortar carrier, M113 A/A (Egypt 2x23 mm), M163 20mm Vulcan air defence system, M548 unarmoured cargo carrier, M577 command post vehicle with higher roof, M113 series recovery vehicle, M901 Improved TOW vehicle, M113 with green archer radar (Germany).

The Norwegian Army has a number of specialised versions of the M113 series including the NM135 which has a one man turret armed with a 20 mm cannon and a 7.62 mm MG and the NM142 which has a one-man armoured launching turret with two TOW ATGW in the ready to launch position. Italy has the SIDAM 4x25 mm SPAAG on M113 series chassis.

Chassis is also used for many specialised vehicles including chapparral air defence missile system, minelayer (Germany) and electronic warfare carrier.