



# Morrow Project M1126 Variant

## From the To Morrows End Podcast

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The M1126 is a multi use eight-wheel drive armored vehicle being built for the Morrow Project by GM GDLS, a joint venture of General Motors Defense of Canada and General Dynamics Land Systems Division of Morrow Industries. The M1126 is designed for use over all types of roads and cross-country terrain, in either 8x8 or 8x4 mode in all weather conditions.

Equipped with a Morrow Industries Fusion reactor (1500kw) with (261 kw) in-line, Electric motor, Built with 1 liter of heavy water fuel storage to allow a 1.2 year operation span at 33% duty cycle. 10 liters of heavy water are stored in quick change canisters in the mechanical bay

Transmission Allison MD3068PS8. 8 speed forward, 1 speed reverse with a split for low speed crawl in forward and reverse with all 8 wheels engaged.

Armor High hardness steel hull to defeat 7.62mm ball.

Additional Standard armor plate mounting system on all sides and top available for enhanced armor additions at the cost of payload capacity. Can bolt on reactive armor or additional plate.

Anti-mine undercarriage armor with lower floor Spall liners.

Advanced NBC Protection System with self contained air scrubbing and supplemental oxygen generator for up to 16 hours of operation sealed up with a full complement inside.

Kongsberg M151 Protector Remote Weapon Station allowing control of topside weapon system from inside with interfaces to the computerized Fire Control Unit (FCU), Visual Imaging Module (VIM) day sight, Thermal Imaging Module (TIM) night sight.

Rangefinder STORM LRF (Small Tactical Optical Rail Mounted Laser Range Finder)  
Multi Spectrum searchlight with high power Variable Infrared Illuminator

Ability to easily shift from four-wheel drive for highway driving, to eight-wheel drive for cross-country.

Equipped for operation in hot and cold climatic conditions.

Blackout driving system for night operation, including Driver's Vision Enhancer (DVE). Periscopes are equipped with a cover for use in blackout operation and are treated to protect against laser beams. LIDAR system for slow speed navigation.

Wire cutters mounted on vehicle to prevent injury to crew from wires when operating in open hatch position.

Front and rear towing lugs that allow a disabled unit to be towed with drive train (transfer case) disconnected.

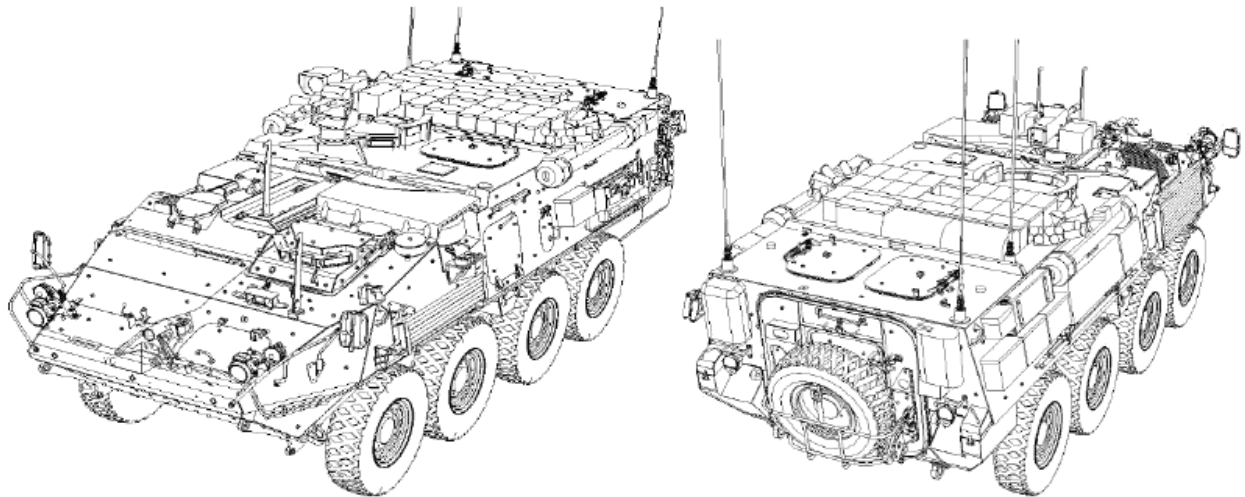
Electric Power assisted steering system with hydraulic backup system.

Pneumatic service brake system protected by a Pressure Protection Valve (PPV) against brake failure resulting from air pressure loss in auxiliary system.

Heating/ventilating systems for comfort of personnel with filtration cartridge CO2 scrubbing for extended air tight operation along with exterior air filtration to .5 micron to eliminate pathogen and larger chemical molecular size intrusion.

Kevlar and steel belted tires with run-flat liners will allow vehicle to be driven up to 25 miles (40 km) at speeds up to 30 mph (50 km/hr) with up to any 4 tires flat, or 5 miles (8 km) with more than 4 or all tires flat.

**WARNING:** Driving the vehicle more than 5 miles (8 km) on flat tires may cause tires to catch on fire.



Automatic Fire Extinguishing System (AFES) in mechanical bay and crew portable extinguishers mounted in front and rear of vehicle.

	<b>APC</b>	<b>.50 Machine</b>	<b>MK19 grenade</b>
CREW	2 (+12)		
LENGTH	7.25m		
WIDTH	2.84m		
HEIGHT	3.16m		
GROUND CLEARANCE	0.5m		
GROUND PRESSURE	2.05 kg/cm		
TURNING RADIUS	9m		
MAX ROAD SPEED	101km/h		
MAX OFFROAD SPEED	64 km/h		
WATER SPEED	Sinks at 5 meters per second		
FORDING DEPTH	1.35M		
GRADIENT	60% Grade 30% Side Slope		
VERTICAL OBSTACLE	0.61m		
TRENCH	1.98m		
AIR TIRE ARMOR VALUE	25		
ARMAMENT		.50 Cal M2HB Machine Gun	MK19 Mod 3 40mm grenade machine gun
AMMUNITION		200rds, 2000rds Ball, Tracer, AP, INC, SLAP	32rds, 430rds HEDP, HE, SMOKE, WP
DEFENSE	4, Four Barrel M6 smoke Dischargers		
PAYLOAD	1400kg	1400kg	1400kg

## VEHICLE STATS

MASS	66 (18,510Kg)
Structure Points (SP)	4356
Ballistic Armor Rating FRONT	60
Ballistic Armor Rating (all other sides)	40
Non Ballistic Armor Rating FRONT	120
Non Ballistic Armor Rating (all other sides)	80
Explosive Armor Rating	15840
Pace	15
DEX	5
STR	90
INT	25

The Weapons system that allows the weapon operator to stay inside in the safety of the vehicle has only a cone of vision that is about 50 degrees. Engaging any vision magnification to give a +5 for distant targets reduces the cone of vision to 25 degrees. Any targets or activity outside of that cone are not detectable by the operator. Infrared is available for night operation of the weapon platform. the weapons platform can rotate at a maximum speed of 90 degrees per combat turn.

All negatives for firing from a moving vehicle are applied, there is no gyroscopic compensation built into the Morrow variant to keep serviceability simple and to reduce equipment space taken up inside.



If the PD prefers the wheels can be replaced with solid rubber bulletproof type. I find it more fun to make the players deal with flat tires. it keeps them from pulling John Wayne attacks if they think it may puncture all their tires. They air type tires CAN be patched, it is up to the PD to determine time needed to be taken and the effort and skills involved.

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