

Lo-car Motor Vehicle

Lorath Automotive 001 Lo-Car Motor Vehicle – Hybrid Car. Due to the expanse of the [Lorath Matriarchy](#) civilization upon the planet [Lor](#), personal ground vehicles were deemed a practical invention. Electrical power was chosen for these vehicles due to the pollution reduction efforts that have been ordered by the Lorath government. Additionally it was found that additional components were required to allow for enhanced performance for the vehicle. Additionally the vehicles were produced in limited numbers to prevent the population from becoming “lazy” and “dependent” on the vehicles.

The “Lo-Car” is intended to be a mainstream vehicle, intended to allow for transportation of individuals or family units. These vehicles were also designed for transportation of small loads and can be used for long distance travel. The “001” designation for the “Lo-Car” is only related to the operating components of the vehicle. The “Lo-Car” is externally customizable thus allowing for the appearance of the vehicle to be customized for the operator.

Statistical Information

Organization: The Lorath. Type: Ground transport vehicle. Class: Basic motor vehicle model 001. Designer: Lorath Psionics House Automotive Division in cooperation with the Lorath Shaman Organization for Environmental Conservation Standards. Manufacturer: Lorath Psionics House Automotive Division – Production Division.

Crew: 1. Maximum Capacity: 5. Appearance: The appearance of the vehicle is a long rectangular shape if viewed from above, same from the profile. From the front and back it appears as a stout rectangle. The vehicle has four doors, one hood for front drive components, one trunk for rear components and cargo. Some custom order models have a “hatch back” design or a “wagon” design.

Length: 3 – 6 Meters Width: 1.5 – 2 Meters Height: 1 – 2.5 Meters Mass: 900 – 2050 Kilograms

Speeds: 1 MPH – 150 MPH (Unmodified)

Range: 100,000 Miles, limited by tire life. 10,000,000 Miles if “Stone Thread” is used to increase the strength of the rubber. Lifespan: If unkept, the vehicle would most likely last 15 years, if well kept, and tuned, the vehicle would last more than one hundred years.

Weapons Systems

Multi-Role Ranged Gatling System (MRRGS) – Devil’s Fountain. (1 Optional): In this application of the “Devil’s Fountain” it is presented as a kit that can be fixed to a vehicle. The kit includes a larger ammunition pack, and a targeting system that can be manually controlled from the driver’s compartment of the vehicle. Included with the kit is a motorized turret that serves as the mount to fix the weapon to the vehicle. The hood mounted version has a targeting area of 180 degrees on the X axis, 45 degrees on the Y axis. The roof mounted version of the vehicle has a targeting area of 360 on the X axis, 75 degrees

on the Y axis.

- Model: Vehicle mounted mechanical turret.
- Role: Obstacle removal.
- Length: 4ft / 1.21 Meters
- Mass: Gatling unit – 60lbs, Ammunition Pack – 20lbs unloaded, 150lbs loaded,
- Location: The weapon would be mounted either on the roof of the vehicle, or on the hood of the vehicle.
- Primary Purpose: Obstacle Removal.
- Secondary Purpose: “sporting”.
- Damage: burn damages from tracer rounds, standard small arms fire damage.
- Range: 500 Yards.
- Rate of Fire: 4000 Rounds per Minute.
- Payload 2500 Rounds FMJ 5.56 MM. 1000 Rounds White Phosphorus tracer.

Systems Descriptions

Battery Packs 3: The Lo-Car has three different battery packs; two of the battery packs are of a NaNiCl type, placed in the front and rear of the vehicle and used to provide power to the motors that would move the vehicle. The NaNiCl battery packs are encased in an air conditioned compartment to prevent over heats. One of the battery packs is a Li-Polymer type battery, used to provide power for internal vehicle displays and devices connected to the vehicle’s power.

Custom Bacterial Cells (3): Special bacterial power cells have been constructed for the use in vehicles, these power cells include a larger inlet for materials to be fed to the bacterial colony. The units also include a containment and injection system to put additional material into the digestion section at the user’s convenience, thus allowing improved power output. Output from the bacterial cells can also be stored in battery units for later use.

Quad mounted motors (4): The motion of the Lorath vehicles is accomplished by the use of four electrical motors, these motors are designed to have an output at “cruising speed” of approximately 300HP, The motors are designed to deliver more output if additional power is supplied, and the motors are kept from overheating through the use of basic air cooling, additional cooling can be accomplished by custom additions to the vehicle.

Regenerative Systems (4): The Lorath vehicles are also equipped with a braking system that transfers the energy generated by the friction of the brake slowing or stopping to the vehicle, this is called “Regenerative Braking”. This energy is regulated through a processor system and is used to directly power the motors, or provide a charge to the battery system. Additionally a “flywheel” generator is attached to the wheel of the vehicle that allows for a part of the power applied to moving the vehicle to be recycled by the vehicle.

Rotary Type Chemical Combustion Engine (Optional): The chemical combustion / fossil fuel engine for the Lorath vehicles is designed to deliver an optimal amount of power, while at the same time conserving fuel and reducing emissions. Using a rotary type engine instead of a piston engine allows for additional efficiency. The difference between a typical rotary engine and the one that is used by the Lorath is minimal. Other than improvements to the fuel consumption rate and several design flaws that are known

to the original rotary-type engine. The fossil fuel used for the engine is enriched with additional chemical catalysts that cause an improved fuel consumption rate that comes out to approximately 130 Miles per gallon, when used in conjunction with the electrical motors. When used alone, the engine is able to deliver 75 miles per gallon.

Hydrogen Fuel Cell (1 Optional + Generator Cell (1) + Storage Cells (4)): A hydrogen electric add on is also available for installation, the hydrogen fuel storage cells for the Lorath vehicles are high compression canisters filled with a hydrogen retaining foam, this foam allows for the hydrogen to be stored with minimal chance of combustion or explosion. Fuel from these cells is moved to another cell where the hydrogen is used in the fuel cell to generate electric power. Fuel for these cells is obtained through a system of hydrogen collection grids located throughout Lor. Hydrogen for these cells is supplied by service stations for free. The cells themselves are available at a low price due to their manufacture being done by slave labor.

Headlights: Basic vehicle headlights.

Optional and non essential Equipment

Basic sensor package: The "Lo-Car" can be equipped with sensor equipment to reduce chances of collisions. These sensors include an infrared front window enhancement, thermal scanner, non-visible laser scanner. The monitor for this package is a heads up display that is mounted upon the front windshield. The targeting for the "Devil's Fountain" turret can also be tied into this package.

Airbags: Chemical propelled airbags located in the front compartment.

Seatbelts: A three point seatbelt or a four point seat belt system.

Computing package: The "Lo-Car" can also be equipped with a radio and data receiver and a data retrieval device. This device is fully compatible with the Neural OS and the Neural Gel Pack technology. The computing package can also double as a secondary control method for the vehicle.

Hydraulic raisers: The "Lo-Car" can be equipped with a hydraulic system that can be used to raise and lower the vehicle. This device's intended use is to allow the vehicle to have a higher ground clearance to allow the vehicle to move over obstacles with greater ease.

Additional components can be installed by the user.

OOC Notes

Approved by [Wes](#) on April 4, 2006

<https://starmy.com/roleplay-forum/index.php?threads/lorath-motor-vehicle-lo-car.12610/page-2#post-182475>

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Last update: **2023/12/21 04:23**

