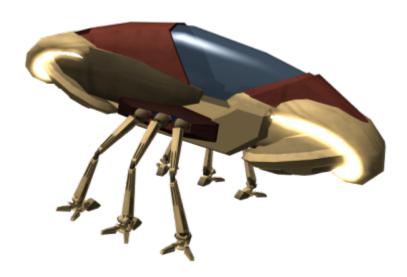# Redback ATV

The Redback is a light scouting vehicle designed for use in low combat situation scouting tasks, being a scout vehicle it has minimal attack and defense capabilities and relies on speed and movement should it be engaged. It has a low-profile design with systems to complement its stealth and speed requirements allowing it to perform its task to the best extent.

After a late revision made by Anaska DePolanskaya it was decided that the Redback would be released to civilian markets as well as militant groups to boost sales and provide more vehicle options to Planet Osman especially.

About the Redback

The Redback's purpose is primarily scouting missions but can also be used as a decoy unit during major military operations due to its speed and maneuverability should it be needed. It's other main function is tactical insertion of small teams behind enemy lines or into strategic points ahead of the main force, it has no weapons and no shields instead relying on the pilot's ability to out maneuver any resistance they encounter.

Key Features

The Redback can traverse the surface of bodies of liquid when in hover mode with no penalty to speed or maneuverability, it uses electricity as its main power stored in a super-efficient twin battery source which is able to be charged via any other power source or kinetic energy generated within motion capacitors.

The body has an afterburner built into both sides and the rear each with an individual fuel source in the body fed via internal tubing, these afterburners allow for quick mobility boosts both in the hover skid

mode and walker mode and can also be used to arrest the Redback's motion.

History

The Redback design was an old design thought up by a select few in within Galactic Horizon while the business contracts were being established with S6 and was quickly abandoned as the legal procedures took precedence. In the final meeting with Director Jack Pine the initial designs were raised by Riccard Black and the plausibility of the light scout design were discussed.

The original designs for the Redback was an unmanned scout drone which would be used to run supplies and physical intel over long distances, after the proposal made by Anaska DePolanskaya it was decided to allow space for a single pilot.

Appearance

Similar appearance to a Tron style motorcycle but with wheels replaced by 3 mechanical legs either side and two hover devices one at each end in the wheel-well.

The body is a single object made of a thin alloy steel with a hardened plastic canopy for entrance and exit, along each side is 3 sockets for attaching the legs which can be removed for easy repair and replacement. The top of the body curves upwards from the front to an apex then down to the bottom while the reverse of this composes the underside of the vehicle with the apex for each being more rear aligned giving it a "seed" like shape.

Each leg contains a ball-joint connection at the top end and a hinge joint half way down for a knee joint. The foot of each leg is a tri-claw design with three outward angled "toes" and one balancing "toe" facing inwards.

Statistical Information

Organization: Galactic Horizon Type: Light Class: Scout Designer: Galactic Horizon Manufacturer: Iemochi Innovations & Sales Production: Constant stock models/Made custom to order **Price:** 10 000KS

Crew: 1 Maximum Capacity: 1 **Passenger Capacity:** 0

Width: 1.5m Height: 2.3m[1] Length: 3m

Speeds

Ground speed: Top speed hover mode 250km/h, top speed walking mode 80km/h

Range: Full charge depletes at a rate of 5% per 100km at top speed and will last on average for a max range of 2500km Lifespan: Each Redback has a predicted lifespan of 25 years if maintained and avoids serious damage to on-board systems

Damage Capacity

See *Damage Rating (Version 3)* for an explanation of the damage system.

- Body: Tier 3

Interior

Single cockpit entrance on the top of the vehicle consisting of a hard-plastic canopy. The internal structure of the Redback is designed to fit one pilot in a motorcycle riding stance with all movement controls in a set of twin horizontal joysticks taking up the "handlebars" position.

The HUD and system info screen is set into the bottom of the cockpit so that if the pilot looked at a downward angle they would be able to easily see and access it with touch-screen interface for navigation. The live feed from outside the vehicle and path-projection overlay screen is set at eye level if the pilot is looking straight forwards to help imitate standard driving.

Onboard Systems Descriptions

The Redback's onboard systems consist of navigation, automatic compensators, digital HUD and the twin battery power source. Navigation systems operate on satellite data if available or on previously gathered planetary surface data, this data is primarily used to estimate the terrain more so than for directions which can simply be calculated by inputting the end coordinates and the approach style. (wide flank, direct, indirect curve ect.)

The automatic compensator is designed to quickly calculate the appropriate thrust required to cancel its inertia when needing to turn or slow, along with controlling inertia management they also prevent the Redback from rolling when performing aggressive movements. (like a diff-lock on a car but with hover skids)

The digital HUD is a small screen the pilot can refer to for information on power output, damage statistics, system functionality and navigation. It can also be projected within a pilot's helmet should their suit be equipped with a HUD of its own such as power armour.

The Twin Battery power source runs at almost 100% efficiency allowing for maximum distance and output, they can be recharged by any other power source or via kinetic energy generated when in walk mode and stored in smaller capacitors to be used first.

Cargo Capacity

The Redback is equipped with two small built in storage compartments designed to hold survival rations for a single person to survive a week in the field, the other to hold long range comms equipment consisting of a transmitter and receiver along with a built-in encryption which can be changed depending on the group using it. The comms equipment is standard issue with every model while survival rations must be packed prior to use.

While intended for military use originally the storage compartments are variable and can be used to store anything with size considered.

OOC Information

club24 created this article on 2018/01/30 22:30.

Approved here on 2018/04/18

[1)]
1.5m when in hover mode

From:
https://wiki.stararmy.com/ - **STAR ARMY**

Permanent link:
https://wiki.stararmy.com/doku.php?id=corp:galactic_horizon:gh-k1-1e_redback_atv

Last update: **2023/12/21 00:57**