**This document was originally created by caninmyham, who is the author of Thog’s Vehicles and Thog’s Things.**

**Vehicle parts:**

**Tiny Civilian Rotors** (very light, very small)

**Medium Electric Motor** (Power/consumption between Motor and Large Motor)

**Mounted Narrenkanone** (Four-barreled homemade rocket pod with mid-range.)

**Mounted THG-Hotbox Micromissile Pod (**6x6 micromissile pod, found on some military aircraft.)

**Mounted Makeshift “Harmonica” Rocket Rack** (5x2 micromissile pod, can be crafted or found on survivor modified skylark.)

**Weapons/Ammo:**

**Narrenkanone** (four-barreled homemade rocket launcher, best used on vehicle mounts),

**Homemade High-velocity Finned Rocket** (More damage, range and accuracy than regular HM HE rockets, but can only be fired from Narrenkanone and are more expensive to make)

**Low-Yield Homemade High-velocity Finned Rocket** (Less damage, range and radius, but .7x cost)

**Makeshift Rocket Rifle** (Low-grade makeshift launcher firing makeshift micromissiles, with decent range, but inaccurate. Faster to load than a normal launcher, good for training)

**Rocket Hand Cannon** (Essentially sawn-off Rocket Rifle, a little bit faster to reload and small enough to fit in a holster, but very inaccurate and slightly louder.)

**Reinforced Rocket Rifle** (Can fire both makeshift micromissiles and military-grade micromissiles, which have much more range and damage, but it’s heavier and reloads more slowly in exchange for more accuracy)

**Revolving Rocket Rifle** (Can only fire makeshift micromissiles, but can hold six and fire in quick succession.)

**Makeshift Explosive Micromissile** (Not very strong or accurate, but are made in batches of 2 and are relatively cheap to make, and have a decent range.)

**Makeshift Incendiary Micromissile** (Creates a small fire where it lands, along with AOE damage. Made in batches of 2, using Napalm)

**Makeshift Black Powder Micromissile** (Alternative loading, equal to standard Explosive in all regards but weaker damage profile.)

**Makeshift Micromissile Slug** (More accurate but shorter ranged than other makeshift micromissile variants, and doesn’t require powder)

**Military Explosive Micromissile** (Much more accurate and considerably stronger than any makeshift micromissiles, but can only be fired from missile pod and reinforced rifle.)

**Ballistic Rod Rifle** (Makeshift ballistic “railgun” equivalent, using proprietary very-high-caliber rounds using railgun rods and modified .50 BMG casings, or shotgun primers and paper with a lot of gunpowder. Very strong like a railgun, but less accurate and shorter ranged. Early game craftable AMR, essentially.)

**Ballistic Rod Rotary Gun** (Super huge and very heavy with limited attachment capabilities, chambering 13 rotary rod rounds (or about 4 LBS of boom-boom). It can be fired on food, but it is insanely slow to reload and difficult to aim as such, so it’s much better mounted to a vehicle.)

**Rebar rod rifle round** (Crafted with a .50bmg casing, gunpowder, a large rifle primer and a rebar rail, this round has good range and is VERY powerful for a crafted round, but its .50bmg case is destroyed upon firing.)

**Paper-cased rebar rod rifle round** (Crafted with some paper, a bunch of gunpowder and a shotgun primer with a rebar rail, this round has notably less range and a bit less power than the brass-cased rebar round but it’s easier to craft and still has plenty of power.)

**Black-powder paper-cased rebar rod rifle round** (Crafted with some paper, black gunpowder and a shotgun primer with a rebar rail, this round has the least range and power of the rod rifle rounds, but it’s cheap to craft and still more than capable of braining most enemies in a single lucky shot or two at mid-range.)

**Armor/Equipment:**

**Low-grade Kevlar Vest** (Less protective, but more widespread Kevlar/cotton vest), **Heavy Kevlar Vest:** (Middle-layer Kevlar vest, slightly more protective but more encumbering),

**Tactical Kevlar Vest:** (Outer-layer Kevlar vest, more coverage than MBR vests and more protective than empty MBR, but slightly more encumbering. Also has 6 slightly smaller pockets.),

**Flak Vest:** (Middle-layer low-quality protective vest. As good as Kevlar against cut and better against blunt, but weaker against ballistic. Easily repaired with common materials.),

**Tactical Flak Vest:** (Outer-layer low-quality protective vest. Has two pockets for mostly pistol sized magazines, and a LOT of storage. Easily repaired with common materials.),

**Ultralight Carrier** (Hardened steel & Kevlar, it’s lighter than a equivalent hardened steel MBR vest, less encumbering and occupies the middle layer instead of outer, but it only has three, slightly smaller magazine pouches.),

**Low-grade Ultralight Carrier** (Iron & Kevlar, it’s cheaper to repair and lighter than the other variants of the UC, but the least protective.),

**Premium Ultralight Carrier** (Superalloy & Kevlar, it’s the second lightest variant of the UC, and only slightly less protective than a Superalloy MBR.),

**Flak Helmet** (Iron & Nomex helmet, cheap and easy to repair but not as protective as Army helmets),

**Army Spring Jacket** (Middle-layer variant of army jacket, less warm and protective with slightly less storage, but less encumbering as well.),

**Tactical Blouse** (Skin-layer high grade military-style garmet for torso and arms), **Tactical Jumpsuit** (Very rare decently protective full-body skin layer, with two magazine slots) **+EDIT+ Tactical Helmet** (Increased protection to be equal to Kevlar vest)

**+EDIT+ Tactical Full Helmet** (Increased protection to be slightly greater than Kevlar vest, reduced encumbrance, and the helmet now also acts as a gas mask.)

**CARS CIVILIAN**

**Solar Electric Moped (Electric Motor)**

A light vehicle with a heavier frame and motor than a scooter, the Electric Moped is particularly popular in foreign countries but found some notable interest in New England following the release of several solar-powered designs. Rather cheap, It charges rather slowly, and its low battery limits its travel range between charges. It was more convenient back when you could just plug it into a wall socket overnight.

**Solar Electric Moped Sidecar (Electric Motor)**

A light vehicle with a heavier frame and motor than a scooter, the Electric Moped is particularly popular in foreign countries but found some notable interest in New England following the release of several solar-powered designs. This variant forgoes its rear-mounted solar panel for one of larger size and higher quality mounted on its integrated ultralight sidecar, which allows for an additional passenger as well. It charges quickly, but its low battery limits its travel range between charges.

**Solar Electric Quad Bike (Medium Electric Motor)**

A lightweight four-wheeled ATV, powered by a low-budget solar array installed over its rear fenders and a mid-sized electric motor. It's fast and efficient as an off-roader, but not very durable and its range between charges is rather slim.

**Solar Electric Mini coupe (Medium Electric Motor)**

A very compact four-door city car, powered by a compact advanced rooftop solar array and a mid-sized electric motor. It's extremely fast, owing to its low weight and small size, but exceedingly fragile and although its travel range is decent, it takes a notable time to recharge from empty.

**Solar Electric Bus (Large Electric Motor)**

A city liner which has undergone some notable modifications to make it "green", including an extensive rooftop solar array and the installation of two storage batteries to fuel its now electric motor. Its framework has been lightened considerably to make it more efficient

‘**Cube’ Supercompact Car (Inline-4 Engine)**

A so-called “Supercompact” three-seater car designed for very dense urban city use with modern efficiency in mind over luxury, the ‘Cube’ is indeed very compact and fuel-efficient, while still maintaining a degree of cargo capacity and decent passenger capability. It’s not very tough or powerful, however, but it was never meant to be.

‘**Cube’ Supercompact Solar Car (Electric Engine)**

A so-called “Supercompact” three-seater car designed for very dense urban city use with modern efficiency in mind over luxury, this variation of the ‘Cube’ utilizes a basic solar array and storage battery, though it’s very efficiently utilized due to its motor and very small size and low weight. It’s quite fragile, however, and a bit more sluggish than the standard Cube model.

‘**Cube-XS’ Supercompact Luxury Car (Medium Electric Engine)**

A luxury, two-seater version of the ‘Cube’-brand solar chassis, with all the luxury features of the standard ‘Cube-S’, and a smaller yet more advanced solar array compared to the S, with equal efficiency. It also features a much stronger medium-sized electric motor

‘**Cube-X’ Supercompact Luxury Car (V6 Engine)**

A luxury, two-seater version of the ‘Cube’-brand Chassis, with a notably much more powerful V6 engine in its sleeker, yet still incredibly compact body. It’s very lightweight and fast on the road, but lacks any real passenger or cargo capacity beyond the haul of your average citygoer’s grocery trip.

‘**Cube-XL’ Extended Luxury Car (V6 Engine)**

A luxury-four-seater version of the ‘Cube’-brand Chassis, with a luxury four-seater interior with comfortable leather seating, along with numerous comfort additions, wide wheels for rough road riding,

‘**Trekker’ three-wheeled economy towncar (V-twin Engine)**

An economy two-door two-seater with minimal trunk capacity, designed for low-income city slummers who need some wheels to get around town, and don’t necessarily care if they add up to four. It’s not very fast, it’s not very sturdy, but it sure is compact and fuel efficient.

‘**Trekker’ three-wheeled economy personal towncar (V-twin Engine)**

An economy two-door two-seater with an extended trunk in place of its standard rear passenger seat, offering greatly increased trunk capacity at the cost of a second safe passenger seat.

**Dunebuggy (V-twin Engine)**

An ultralight two-seater vehicle with a bit of trunk space and fantastic offroad handling, at the cost of a rather wide profile. Though its frame is very light, its reinforcement and shock absorbers make it deceptively strong.

**Solar Electric Dunebuggy (Medium Electric Engine)**

An ultralight two-seater vehicle with a bit of trunk space and fantastic offroad handling, at the cost of a rather wide profile. This variation is solar powered, and it lacks some of the heavier reinforcements of gas-powered buggies in order to cut back to compensate for the weight added by its solar assembly and storage batteries.

**Muscle Car (V10 Engine)**

A very macho two-seater car with a beefy 10-cylinder engine, capable of reaching high speeds on the road in masculine style. Though it’s fairly standard as is, its engine screams for a variety of heavy-weight modifications to be made to it..

**Hummer (V10 Engine)**

A civilian-market verison of the iconic military humvee, designed as a deluxe, grossly oversized SUV with all the luxury features one could ask for in an obnoxious car. It lacks the armor plating, offroad excellence and gun mountings of its militaristic father, but it has a ludicrously powerful V10 gasoline engine and still maintains a (lighter) reinforced front bumper similar to the military design.

‘**Carmino’ Muscle Car (V10 Engine)**

A classic variation of muscle car which is somewhere between a car and a truck, owing to its open extended trunk and wider wheels than are standard on a muscle car. Its increased weight makes it slower on the road, but its powerful engine and increased cargo still give it an edge over slower higher-capacity trucks and lighter poor-off roading cars.

**Minivan (Inline-4 Engine)**

An economy medium-capacity passenger solution, with seats for five passengers plus the driver in a rather compact frame, in exchange for a rather small trunk.

**Premium Minivan (Inline-4 Engine)**

An extended-cab minivan with an extra row of seating for seven passengers plus the driver, along with inboard cargo hatches for improved carrying capacity for large families on grocery runs. It also has some luxury features, such as interior heating and a surround-sound stereo system, but its still mid-size engine combined with its larger frame make it rather sluggish when its forced off road.

**Passenger Van (V6 engine)**

A wide-frame heavy weight van designed for passenger taxiing, with seats for 8 passengers and the driver along with inboard cargo space for passenger luggage. It’s not particularly fast, but it’s decently fuel efficient even when loaded.

**Crew-cab Pickup Truck (V6 engine)**

An extended frame pickup truck with four seats, allowing for two extra passengers in the cab. It’s a bit heavier and handles a little worse as a result.

**Premium Crew-cab Pickup Truck (Diesel V6 engine)**

A premium extended frame pickup truck with four leather seats, along with comfort features such as a space heater. It’s a bit heavier and handles a little worse as a result.

**Utility Crew-cab Pickup Truck (Diesel V8 engine)**

A heavy-duty work-modified crew cab with its passenger cab traded out in favor of a charging station for power tools, along with various modifications for increased cargo, improved offroad performance, and

**Big Pickup Truck (V8 engine)**

A massive extended crew-cab truck with a huge bed, offering a bunch of cargo capacity as well as space for four passengers comfortably, plus the driver.

**Premium Big Pickup Truck (Diesel V8 engine)**

A massive extended crew-cab truck with premium leather seats and all the luxury features, along with cargo hatches installed in the cab boards allowing extended storage capacity along with its huge bed and off-road tires giving it great offroad handling.

**Big Utility Pickup Truck (V10 engine)**

A massive extended crew-cab truck which forgoes one of its interior seats in favor of an extended internal cargo hatch, and which maintains many features of the premium larger truck model while forgoing most luxuries. This massive utility truck comes with an absolutely beastly V10 engine, along with a steel snow plow mounted to its bumper.

**RV Trailer**

A capacious camper trailer with an internal storage battery, full kitchen and two bunks, along with some internal hatch storage. It’s comfortable, but immobile without a truck or something with a tow cable to haul it.

**Electric RV Trailer**

A capacious camper trailer with an internal storage battery, full kitchen and two bunks, along with some internal hatch storage. It’s comfortable, but immobile without a truck or something with a tow cable to haul it. This one has a large low-grade rooftop solar array.

**CARS SURVIVOR**

**Rocketeer Technical**

Up-armored from a standard technical, with its machine gun swapped out in favor of a home made rocket pod.

**CARS MILITARY**

**Spy Car (V12 Gas Engine)**

An extremely luxurious car on the surface, and deadly beneath it. It sports a reinforced glass windshield to protect its driver, along with a sneaky hood-mounted M249 LMG that can be remote controlled, and an ultralight amphibious carbon-fiber underbody which allows the car to operate nearly as well on water as on land. Its ridiculously large engine guzzles fuel, however, and while the windshield is reinforced, little else of the chassis is.

**Muskrat ATV (V-twin Engine)**

A super compact four-wheel offroad car designed by the military long ago as a lightweight, compact, and expedient vehicle which could be delivered on small aircraft, helicopters, and landing craft. The Muskrat handles well and is quite tough for its size, though at its core it is still a rather dated, small vehicle.

**Muskrat ATV-MG (V-twin Engine)**

A super compact four-wheel offroad car designed by the military long ago as a lightweight, compact, and expedient vehicle which could be delivered on small aircraft, helicopters, and landing craft. The Muskrat handles well and is quite tough for its size, though at its core it is still a rather dated, small vehicle. The MG variant forgoes half of its cargo capacity in exchange for a third seat, to house a gunner for its gimbal-mounted m249 light machine gun, for anti-infantry use.

**Muskrat ATV-TOW (V-twin Engine)**

A super compact four-wheel offroad car designed by the military long ago as a lightweight, compact, and expedient vehicle which could be delivered on small aircraft, helicopters, and landing craft. The Muskrat handles well and is quite tough for its size, though at its core it is still a rather dated, small vehicle. The TOW variant forgoes half of its cargo capacity in exchange for a third seat, to house a gunner for its gimbal-mounted TOW anti-tank missile launcher.

**Ferret Scout Car (V6 Gas Engine)**

A highly compact, yet rather dated design of armored two-seater vehicle, meant to house a driver and a gunner/navigator in its rear seat. It is tough, and handles off road exceptionally well, being able to traverse all manner of rough environ thanks to its small size and great handling. However, the driver has a very limited field of vision, and while the craft has some armor, it still pales in durability to something like a proper tank or APC.

**Prowler IFV (V6 Diesel Engine)**

A much more compact alternative to a heavy APC which is additionally amphibious- making it favored by special forces, the Prowler IFV can seat an entire squad of soldiers and deliver them through any environs, while keeping them well protected within its armored chassis. It navigates more easily offroad than other heavy military craft, thanks to its narrower frame and amphibious nature, although it offers very little storage in its base configuration.

**HELICOPTERS CIVILIAN**

**Gyrocopter (Inline-4 Gas Engine)**

An extremely lightweight helicopter, with a light dual-blade rotor powered by a simple v4 gasoline engine. Popular among recreational civilian flyers before the cataclysm, owing to its cheap upkeep and low fuel flight cost.

**Solar Gyrocopter (Medium Electric Motor)**

An extremely lightweight, relatively high-end helicopter with a single seat, windshield and solar wing array designed to power its mid-sized electric engine.

**Volare Ultralight Helicopter (V8 Gas Engine)**

An ultralight two-seater civilian helicopter, the Volare was popular particularly among touring companies before the cataclysm. Its ease of maintenance and low cost overhead made it very profitable to fly often and with little cargo.

**Skylark Luxury Helicopter (Small Gas Turbine)**

A large civilian helicopter once often used to ferry CEOs and celebrities who could afford to purchase and maintain them, the Skylark comes with a comfortable seating arrangement and a minibar, along with a sound system to complement its soundproofed interior.

**Solar Soarer Electric Helicopter (Super Electric Motor)**

A highly experimental solar-powered helicopter which took to the market mere days before the cataclysm struck, it utilizes the extremely rare Quantum Solar panels to charge its vast power capacitors, allowing it to maintain flight for distances further than any other solar powered craft of its size and weight.

**THG-C Twinbrook Cargo (2x Medium Gas Turbine)**

The THG-Civilian variation of the Twinbrook Cargo Carrier helicopter is actually based off of the military “Transport” frame, features its less powerful engine turbines, and lacking the expensive and heavy specialized cargo strapping and securement systems features on the military cargo variant. However, thanks to its greatly reduced weight, the craft excels still at carrying loads of incredible weight, making it a popular choice among aviary courier companies before the cataclysm.

**HELICOPTERS SURVIVOR**

**Predator Gyrocopter (V6 Gas Engine)**

A heavily modified gyrocopter fitted with a heavier V6 engine, an armored windshield and a mounted light machinegun.

**Volare Pyromaniac Modified Helicopter (V12 Gas Engine)**

A heavily modified Volare which foregoes its passenger compliment in favor of expanded storage, to feed its jury-rigged dual mounted makeshift rocket pods. Its windshields have been reinforced as well, in order to better protect the pilot. It also features a forward mounted m249, for the co-pilots use.

**Skylark Survivalist Modified Helicopter (Small Gas Turbine)**

A modified skylark which has had choice reinforcement undergone to its hull, while its interior seating arrangement has been stripped and retrofitted with a multitude of comforts to make it more livable, ranging from a full kitchen unit and a bed to a welding unit, along with door mounted m249 machine guns.

**HELICOPTERS MILITARY**

**THG Pygmy Light Scout Helicopter (Small Gas Turbine)**

A lightweight military helicopter which was on the verge of going out of vogue before the cataclysm struck, the Pygmy is well armored, fast, and relatively fuel efficient for a military craft, though it lacks any armament. While it only has two interior seats, it is designed to safely harbor two additional passengers on its external landing skids.

**THG Helot Light Attack Helicopter (Small Gas Turbine)**

A lightweight military attack helicopter with a light, yet varier armament, which was on the verge of going out of vogue before the cataclysm struck. the Helot is well armed, with a single Hotbox micromissile pod mounting and a mounted M240 on its secondary pylon as well as being decently durable, though it's a bit of a fuel hog for its size.

**THG Soldat Multirole Helicopter (Medium Gas Turbine)**

A midweight military attack helicopter on the verge of going out of vogue before the cataclysm struck, the Soldat was designed to fill a variety of roles with minimal modifications to its chassis. The standard variant has five passenger seats and two for the vehicle's operators, along with door-mounted m249s and a sturdy reinforced aircraft frame.

**THG Soldat Medevac Helicopter (Medium Gas Turbine)**

A midweight military attack helicopter on the verge of going out of vogue before the cataclysm struck, the Soldat was designed to fill a variety of roles with minimal modifications to its chassis. The Medevac variant forgoes its excess passenger capacity in favor of sporting two medical beds and improved storage for medical supply, while maintaining the same standard mounted door guns of the default chassis.

**THG Soldat Mk2 Omnirole Helicopter (Large Gas Turbine)**

The Soldat Mk2 was in its early prototype testing stages before the Cataclysm struck, being on near the cutting edge of technology. It includes a camera visual suite, along with ample

armament in the form of dual-mounted automatic targeting sensor-equipped Cerberus laser cannons, along with dual rack pylon mounted TOW anti-tank missiles. It features a large number of other design features as well, such as a vastly reinforced chassis, an upscaled turbine, a compartmentalized operator's bin while maintaining the potential passenger and equipment capacity as its ancestor, with greater potential lift.

**THG Twinbrook Transport (2x Medium Gas Turbine)**

The Twinbrook is a superheavy transport helicopter, designed to deliver entire squads of soldiers from point A to B in active combat environments. In this, its chassis is heavily armored, and its dual rotor assembly reduces the odds of a catastrophic flight failure, increasing the chance of survivability in landing and takeoff dramatically.

**THG Twinbrook Cargo (1x Medium Gas Turbine, 1x Large Gas Turbine)**

The Twinbrook Cargo variation comes equipped with a more powerful aft rotor turbine, along with having most all its passenger seating stripped in favor of cargo supply spacing, strap downs and fastening points for bulk cargo or small vehicle transportation.

**THG Domina Nuclear Hunter-Killer (2x Super Electric Motor)**

An extremely unorthodox three-rotor helicopter powered by a pair of high-output electric motors, in turn powered by a nuclear microreactor. The Domina is very heavy for its size, with upmost protection given to its pilot, who is almost entirely encapsulated in armor plating. The craft, lacking a fore windshield, instead relies on an advanced camera network for its pilot to see, combined with - now mostly useless - sensors in order to detect hostile aircraft in air from long range. It is very heavily armed and armored for a single seater craft, with an automated m240 machine gun mounted on the fore of the cockpit, along with a pair of Hotbox micromissile pods on its wings. The platform combines stability, speed, and firepower all in one compact package, which made it quite popular - in the few weeks it saw service before the cataclysm.

**BOATS**

**Jetski (1-Cylinder Gas Engine)**

A fast, economy single-person motorized watercraft run off of a single cylinder engine. It’s fuel efficient, but it lacks any bells or whistles and it’s not the fastest watercraft around.

**Premium Jetski (Large 1-Cylinder Gas Engine)**

A high-end racing-grade jetski with a larger, more powerful 1-cylinder engine, along with a muffler and headlight for night time water skiing.

**Motorized Fishing Dinghy (Large 1-Cylinder Gas Engine)**

A compact motorized ship designed to hold one person, some fishing kit, and some fish. It’s fairly fast over the water thanks to its large 1-cylinder engine and light, small frame, but it doesn’t have all that much cargo or passenger capacity.

**Motorized Fishing Boat (Large 1-Cylinder Gas Engine)**

A mid-sized fishing vessel designed for either small-scale commercial use or for the avid hobbyist, it features a closed cab and a wide trunk to accommodate plenty of fishing gear and all you could catch in a day.

**Racing Boat (V8 Gas Engine)**

A high-dollar premium carbon-fiber hulled racing boat, equipped with all manner of bell and whistle ranging from a built in sound system to leather seating, along with a built-in minibar. It sports a ridiculously powerful V8 onboard engine, which allows it to fly across the water ahead of most any other watercraft.