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PRIMITIVES VOL. 5



INTRODUCTION

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DELETE

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As it seems our latest age of Sphere-wide conflict is drawing to a close, it is perhaps fitting that the following represents our fifth—and final—volume of historical readouts covering the combat technology of the original Age of War. As is only natural for so brief a series, it is impossible to detail all of the various 'Mechs, vehicles, and variants that emerged across human-occupied space as the Terran Alliance fell and its far-flung colonies began to coalesce into the realms we know of today. Thus, this collection has focused primarily on the machines that had the greatest significance to the military development of these nascent combatants, with an emphasis on the years surrounding the dawn of the BattleMech age.

In this volume, we cover a final batch of the original prototype BattleMechs conceived by the major states of the Inner Sphere. This list not only includes the geneses of the iconic *Archer*, *Orion*, and *Wolverine*, but also the *Ymir* and the *Phoenix*—the first "home-grown" machines built respectively by the Lyran Commonwealth and the Rim Worlds Republic. Also featured is the *Trooper*, the progenitor of the *Flea*.

As in our past volumes, we have collected information on a wide variety of other battlefield units as well. This list includes the Dunning, an early mobile headquarters vehicle designed to serve the then-newly formed Terran Hegemony, and the Asher hover scout, an example of contemporary recon vehicles. Also covered are samples of the earliest BattleMech recovery vehicles, and typical Age of War-era self-propelled artillery vehicles. Rounding out our list are the Lyran Commonwealth's Colt medium fighter, which played a key role in unifying the realm that would one day be ruled by House Steiner, as well as the pre-Hegemony *Saturn* patrol ship and the *Leviathan*-class JumpShip.

While the 'Mechs, vehicles, and aerospace craft featured in these five volumes are referred to today as "Primitive", they collectively played key roles in forging the Inner Sphere that we recognize today. For some, the progress of technology sounded the knell of their eventual abandonment, but for others, scientific advancement breathed into them a lifespan stretching centuries into the future.

—Dr. Saga Brest, 11 January 3081

HOW TO USE THIS BOOK

The 'Mechs, combat vehicles, and fighters described in *Experimental Technical Readout: Primitives, Volume 5* provide players with a sampling of designs from the period of time covered by the Age of War and the rise of the First Star League. While the focus of the designs featured in this book is historical, many of the designs have modern counterparts detailed in other Technical Readouts.

The rules for using 'Mechs, vehicles and fighters in BattleTech game play can be found in *Total Warfare*, while the rules for their construction can be found in *TechManual*. However, the primitive nature of these designs also utilized the RetroTech construction rules found in *Interstellar Operations*, supplemented by the Experimental-level rules presented in *Tactical Operations*.

Developer's Addendum

Astute readers may notice that several of the designs that will appear in this and other volumes of the XTR: Primitives miniseries have appeared in previous Record Sheets books such as Record Sheets: 3075. This redundancy is intentional, both as a means of correcting minor errors in the original Primitive units' stats (where conflict arises, the Primitives XTRs supersede) and as a means of providing a clearer and more focused treatment of the primitive machines that were contemporaries during the Age of War.

INTRODUCTION

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Special Thanks from Chris: ... to Argon, the most noble of gasses (well, one of them).

Josh Perian, Luke Robertson, Chris Wheeler, Matthew Wilsbacher



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TP-1R TROOPER

Field Testing Summation: Original *Trooper* Primitive Chassis Producer/Site: Toddlette Industries, Ariel Supervising Engineer: Colonel J. Marcus Llewelyn-Jaymes Prototype Introduction Date: 2475 Non-Production Equipment Analysis:

Primitive Armor Primitive Cockpit Primitive Engine

Overview

While the Free Worlds League government awarded Corean Enterprises the contract to design and build the realm's first homegrown BattleMech (the Icarus), dozens of manufacturers throughout the League fought bitterly for their own share of this bold new defense market. Among these competitors was Toddlette Industries, a mid-sized supplier of WorkMechs and industrial robots. Despite the company's relative obscurity, Toddlette jumped to the forefront of the new BattleMech arms race when they recruited retired Colonel J. Marcus Llewelvn-Javmes as their Chief Engineer. Formerly the Associate Chief Armorer for the FWLM, Llewelyn-Jaymes brought with him not only an extensive background in BattleMech research and development, but also countless professional and personal contacts within the League's military, government and private sector. By the end of 2469-just one year after his retirement from the service-Llewelyn-Jaymes and his hand-picked design team at Toddlette Industries began to work on something they knew the FWLM would soon be clamoring for: a dedicated reconnaissance BattleMech.

Toddlette's first BattleMech, code-named Trooper, was a highly maneuverable, lightweight biped capable of maintaining ground speeds of nearly 100 kph. Utilizing the same basic chassis as many of Toddlette's larger WorkMechs, the machine's structure looked rather simplistic at a glance. Its power plant, gyroscope, cockpit and other critical systems were all housed in a simple "armored box" structure, mounted atop a reinforced and armored version of the same "birdwalker" legs that had become an icon of Toddlette's top-selling LoaderMechs. Given its intended role as a dedicated scout (and assumed secondary roles as a patrol unit or fast-reaction cavalry), the Trooper eschewed fully articulated arms and instead carried its limited armaments within simple, turret-style, side-mounted pods that could be serviced or replaced far more easily. With so much of its tonnage devoted to its engine, control systems, and vital structures, its weaponry consisted of paired small lasers in its left arm pod, with a machine gun in the right and a "chin-mounted" flamethrower in the centerline. While all of these weapons could potentially devastate smaller armored vehicles and infantry, their limited range and hitting power against other BattleMechs served to discourage pilots from directly engaging such opposition.

Thanks to Llewelyn-Jaymes' contacts within the federal military and government circles (and possibly some bribes to key politicians and decision makers, if contemporary rumors are to be believed), the FWLM accepted delivery of the first *Troopers* in 2475. Though lauded by technicians and logisticians as incredibly easy to maintain, the *Trooper* quickly earned a poor reputation among its operators. Like the WorkMechs it was based off of, the *Trooper* had no dedicated ejection system; pilots had to manually climb out of a disabled *Trooper*. Furthermore, its legs proved ill-suited to the rigors of heavy combat, as proven in numerous failed trials before the FWLM's Minister of Defense. Nevertheless, the League's Chief Armorer and Quartermaster General continued to purchase *Troopers* year after year, ultimately selecting it to be the very first FWLM BattleMech upgraded with "modern" technologies in 2501, rechristening the 'Mech in the process. The upgraded machine—dubbed the FLE-4 *Flea*—remained in production throughout the Star League era, with factory lines established on five worlds after Terran-based Earthwerks Incorporated purchased Toddlette Industries in 2581.

Type: Trooper

Technology Base: Inner Sphere (Primitive) Tonnage: 20

Equipment			Mass
Internal Structure:			2
Engine:	145 Primiti	ve	5
Walking MP:	6		
Running MP:	9		
Jumping MP:	0		
Heat Sinks:	10		0
Gyro:			2
•			5
Armor Factor (Primitive):	32		3
	Internal	Armo	or
	Structure	. Valu	е
Head	3	5	
Center Torso	6	5	
Center Torso (rear)		2	
R/L Torso	5	3	
R/L Torso (rear)		1	
R/L Arm	3	3	
R/L Lea	4	3	
Weapons and Ammo	Location	Critical	Tonnage
Machine Gun	RA	1	.5
	RT	1	.5
Walking MP: Running MP: Jumping MP: Heat Sinks: Gyro: Cockpit (Primitive): Armor Factor (Primitive): Head Center Torso Center Torso Center Torso (rear) R/L Torso R/L Torso (rear) R/L Arm R/L Leg Weapons and Ammo	6 9 0 10 32 Internal Structure 3 6 5 3 4 Location RA	Armo valu 5 2 3 1 3 3 Critical 1	0 2 5 3 or e Tonnage .5

Machine Gun	RA	1	.5
Ammo (MG) 100	RT	1	.5
Flamer	СТ	1	1
2 Small Lasers	LA	2	1
			/

Notes: Features the following Design Quirks: Bad Reputation, Easy to Maintain, Exposed Actuators, Improved Life Support, Modular Weapons, Obsolete (2405), No Arms, No Ejection System, Weak Legs.



PX-1R PHOENIX

Field Testing Summation: Original Phoenix Primitive Chassis Producer/Site: Krauss Heavy Industries, Wotan Supervising Engineer: Jack Krauss, Jr. Prototype Introduction Date: 2474 Non-Production Equipment Analysis:

Primitive Armor Primitive Cockpit Primitive Engine Prototype Jump Jets

Overview

In 2455, House Steiner's Operation PROMETHEUS made it possible for the Lyran Commonwealth to be the first realm outside of the Terran Hegemony to possess BattleMech technology—but that distinction would be short-lived. Before the Lyrans could capitalize on this advantage, the Federated Suns and the Draconis Combine each managed to steal the same technical capabilities from them by 2461. Realizing that the proliferation of the BattleMech would soon spread all across the Inner Sphere, Archon Alistair Marsden Steiner took the surprising step of *selling* this new technology to his Periphery neighbors in the Rim Worlds Republic.

Given the ties between the Terran Hegemony and Terens Amaris, the Republic's newest First Consul, the Archon knew it was only a matter of time before BattleMechs turned up on the coreward borders anyway. What he was less certain about was whether those troops would be Republican or Hegemony. By effectively gifting the technology to the Rim Worlds before the Hegemony did so, Steiner hoped to cement an alliance—or at least a renewed non-aggression pact—with Amaris. After a series of secret negotiations, the deal was struck, and by 2465, the Republic had manufactured its first run of *Mackie* clones.

While the Republic perfected the *Mackie*, however, designing and building wholly new BattleMechs proved a distinct challenge to the Republic's industries. Republic companies developed a few experimental 'Mech designs in the late 2460s, but none of these proved out until Krauss Heavy Industries of Wotan rolled out the *Phoenix*.

The Phoenix was one of several designs nearing prototype stage in 2470 when AsRoc, the Republic's intelligence agency, managed to secure samples and specs of the jump jet technology the Terran Hegemony had begun installing on their *Wasp* scout 'Mechs. Eager to capitalize on this technological boon, Amaris directed Krauss Heavy Industries to integrate it into their machine for immediate testing. The result was a mad scramble to redesign a machine that was already functionally complete.

Originally intended to serve as a mobile front-line "trooper" BattleMech capable of engaging enemy 'Mechs and armor at all ranges, the *Phoenix* prototype carried a PPC and a pair of four-tube SRM launchers. In the effort to reconfigure it as a jump-capable 'Mech, the launchers were downgraded to paired twin-tube SRMs to free up the necessary mass (though the 'Mech also received a slight bump in armor protection in the process). But scraping up the necessary mass was only the beginning; Krauss' engineers experienced many of the same problems with the jump jets themselves as their Hegemony counterparts had on the earlier *Wasp* only moreso. As a result, it took the company nearly four years to get the Republic's first jump-capable prototype off the ground (and five more before said prototype was declared ready for production). Despite every assurance that this *Phoenix* was ready for service, reports from the field told a very different story. Firing its particle cannon evidently caused so much electronics interference that some pilots came to refer to the machine as the "Sparkly Bird". But even those disruptions paled when compared to the problems caused by using its jump jets. Even with extensive training, many pilots found it difficult to keep the *Phoenix* stable through a jump, and the stresses of "properly" landing a fifty-ton machine often resulted in fractured or shattered leg and torso structural components. First Consul Amaris, pursuing a policy of "quality over quantity" when it came to new defense projects, insisted that Krauss focus its resources into perfecting the *Phoenix* at the expense of nearly every other military contract on its list. After almost a dozen refits, overhauls and upgrades, the *Phoenix*'s main problems were eliminated by the final decade of the twenty-fifth century— thirteen years before it would be "modernized" for the new century.

Type: Phoenix

Prototype Jump Jet

Prototype Jump Jet

Technology Base: Inner Sphere (Primitive) Tonnage: 50

Equipment			Mass
Internal Structure:			5
Engine:	240 Primit	tive	11.5
Walking MP:	4		
Running MP:	6		
Jumping MP:	3		
Heat Sinks:	12		2
Gyro:			3
Cockpit (Primitive):			5
Armor Factor (Primitive):	128		12
	Interna	I Armo	or
	Structur	e Valu	е
Head	3	9	
Center Torso	16	18	
Center Torso (rear)		7	
R/L Torso	12	14	
R/L Torso (rear)		5	-
R/L Arm	8	12	
R/L Leg	12	16	
Weapons and Ammo	Location	Critical	Tonnage
PPC	RA	3	7
2 SRM 2	LT	2	2
Ammo (SRM) 50	LT	2	2
	RT	1	.5
Prototype Jump Jet		1	.5

Notes: Features the following Design Quirks: EM Interference, Obsolete (2525), Poor Workmanship, Weak Legs.

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WVR-1R WOLVERINE

Field Testing Summation: Original Wolverine Primitive Chassis Producer/Site: Norse BattleMech Works, Marduk Supervising Engineer: Russell Bell Prototype Introduction Date: 2471 Non-Production Equipment Analysis:

Primitive Armor Primitive Cockpit Primitive Engine Prototype Jump Jets

Overview

After fielding its own versions of the *Mackie*, and following that up with the *Battleaxe*—both massive behemoths with little in the way of maneuverability or speed—the Federated Suns began looking for a front-line 'Mech that both had the ability to keep up with its forward advance and could also outmaneuver enemy BattleMechs. The debut of the Hegemony's *Griffin* and *Shadow Hawk* gave the Davions a template they could model their ideal cavalry 'Mech from.

Despite some fierce competition from companies based in Richard Varney's Capellan March, Norse BattleMech Works of Marduk won the AFFS contract to produce the medium strike 'Mech that would become known as the *Wolverine*. Norse's business coup owed as much credit to the massive industrial co-op the company had organized to support its operations on Marduk as it did the tacit support it won from then-First Prince Ellen Davion, who likely enjoyed the opportunity to tweak Prince Varnay's overly ambitious nose.

Using both the *Griffin* and the *Shadow Hawk* as inspiration, the *Wolverine's* designers opted for maneuverability first and foremost, followed by a balanced weapons load that could give their machine comparable offensive reach and close-in firepower without straining its heat exchange systems. The 'Mech's primary weapon—an experimental, short-barreled, class-5 autocannon—was given a generous two-ton magazine for extended battlefield duration, while a medium laser provided coverage for the "weak zone" sixty meters inside the main gun's reach.

Acknowledging that this made for a BattleMech more lightly armed overall than either of its chosen competitors, Norse BattleMech Works made provisions to allow for the inclusion of a PPC (and additional heat sinks) in place of the autocannon once sub-contractors could provide a suitable model. Unfortunately, the first such PPC secured for the test frame overheated, caused significant EM interference and proved a wholly inaccurate weapon. This failure prompted the AFFS High Command to urge the company to stick with the more accurate autocannon they had already developed.

Rather than scramble at the last minute for alternative weapon loads, Norse engineers built the *Wolverine* with a heavy level of armor protection. Much of this armor was focused on the machine's legs and arms, with special care taken to install extra plating around the main joints for added defense against shrapnel and detritus. The final result was a 'Mech that possessed not only a more stable, cooler-running firing platform, but could also weather severe punishment while still out-jumping its Hegemony forebears.

Ironically, it would be Prince Varnay who received the first four production-grade WVR-1R *Wolverines* in 2471—the first of which he would personally pilot for the rest of his career before leaving it to

his son and heir. The infamous "Varnay-1R" as it was known, would continue to pass through an unbroken succession of Varnay Princes until finally ending up in Capellan hands (allegedly confiscated by the Confederation in payment for its protection of Roger Varnay and his mother following their defeat in the Davion Civil War).

Despite its rocky beginnings, the *Wolverine* would become a standard AFFS medium BattleMech for centuries, and in turn served as the template for the Hegemony's upgrades for both the *Griffin* and *Shadow Hawk*, both of which evolved to match the *Wolverine*'s fifty-five ton standard. Although Norse BattleMech Works would introduce a more potent variant in 2490 (the WVR-3R shown at right, traded in three tons of armor and a ton of autocannon rounds for the addition of a shoulder-mounted six-pack SRM launche), this iconic machine would not be fully upgraded to modern standards until Kallon Industries bought the rights to the chassis from NBW, and introduced the WVR-6R model in 2575.

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Type: Wolverine

Prototype Jump Jets

Technology Base: Inner Sphere (Primitive) Tonnage: 55

265 Primiti 4 6 4 10	ve	Mass 5.5 14
		3
		5
155		14.5
Internal	Armoi	•
Structure	Value	
3	9	
18	28	
	6	
13	15	
	5	
9	14	
13	22	
Location	Critical	Tonnage
RA	4	8
RA	2	2
Н	1	1 /
RL	2	1
	4 6 4 10 155 <i>Internal</i> <i>Structure</i> 3 18 13 9 13 Location RA RA H	6 4 10 155 <i>Internal Armon</i> <i>Structure Value</i> 3 9 18 28 6 13 15 5 9 14 13 22 Location Critical RA 4 RA 2 H 1

Notes: Features the following Design Quirks: Jettison-Capable Weapon (AC/5), Obsolete (2500), Protected Actuators, Stable.

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ARC-1A ARCHER

Field Testing Summation: Original Archer Primitive Chassis Producer/Site: Earthwerks Incorporated, Terra Supervising Engineer: Linn Tommi Prototype Introduction Date: 2458 Non-Production Equipment Analysis:

Primitive Armor Primitive Cockpit Primitive Engine

Overview

After the success of the *Mackie*, *Banshee* and the *Kyudo* BattleMechs, the Terran Hegemony continued to expand both its BattleMech forces and their combat doctrines. While all three of their established 'Mechs were capable in their roles, none were able to provide direct fire support against enemy forces at range—a weakness the Hegemony's enemies desperately took advantage of to counter Terra's growing BattleMech hordes. In response, the HAF began soliciting for proposals that would produce some of the most iconic and longest-serving BattleMechs in history.

Earthwerks Incorporated of Terra began laying the groundwork for expanding into BattleMech construction long before the HAF request for proposals, recruiting personnel from Hegemony Weapons Research on New Earth as well as former HAF MechWarriors, technicians and especially general officers with extensive political connections. When the RFP for a "heavy fire support BattleMech" came in late 2449, Earthwerks responded with a proposal for a 'Mech that would eventually become the standard by which all other similar designs would be judged—the *Archer*.

Despite its head start on development, Earthwerks' initial concepts were far from the ideal. The first few years of design work were dominated by petty squabbles and ideological battles between the company's engineers and both the MechWarriors and field technicians brought in to consult with them. In this war between the theoretical and the practical, the HAF's requirements were often forgotten—and yet, by 2454, the complex engineering marvel initially proposed to the Hegemony had been transformed into the blocky form still familiar today. Gone were the complicated, hard-to-repair stabilization equipment and advanced, computer-slaved sensors array, all intended to make the Archer the most accurate BattleMech in existence. In their place was a sturdy and heavily armored frame, housing a pair of twenty-tube long-range missile launchers within its torsos. Though the Archer carried limited ammunition stores, its four tons were considered sufficient for most assignments, while reloading was made an easy process with the inclusion of large armored access panels at the 'Mech's rear. One medium-class laser, mounted on each of the Archer's fully articulated arms, provided for close-in defensive fire, though firing both the missiles and the lasers produced far more excess heat than the machine could safely handle-gualities shared by the Archer even today.

The HAF made the Archer its standard fire-support BattleMech, assigning whole lances to most battalions. Praised for its reliability and ease of maintenance, the ARC-1A remained the Hegemony standard for more than a decade and a half before technological progress enabled Earthwerks to produce the more efficient ARC-2R model, which debuted in 2475. Earthwerks of Terra continued to manufacture the *Archer* for the HAF, but after the formation of the SLDF less than a century later, expanded orders (especially during the Reunification War) forced the company to sub-contract production out to other manufacturers. The result was a machine that became so ubiquitous that the very first fire support BattleMech ever designed still serves in today's armies, six centuries after its inception.

Type: Archer

Technology Base: Inner Sphere (Primitive) Tonnage: 70

Equipment Internal Structure: Engine: Walking MP:	255 Primit 3	ive	Mass 7 13
Running MP:	5		
Jumping MP: Heat Sinks:	0 10		0
Gyro: Cockpit (Primitive):			3 5
Armor Factor (Primitive):	171		16
	Internal Structure	7	
Head	3	9	
Center Torso	22	30	
Center Torso (rear)		10	
R/L Torso	15	20	
R/L Torso (rear)		6	
R/L Arm	11	15	
R/L Leg	15	20	
Weapons and Ammo	Location	Critical	Tonnage
Medium Laser	RA	1	1
LRM 20	RT	5	10

LRM 20	RT	5	10	/
Ammo (LRM) 12	RT	2	2	(
LRM 20	LT	5	10	\mathcal{V}
Ammo (LRM) 12	LT	2	2	
Medium Laser	LA	1	1	

Notes: Features the following Design Quirks: Difficult Ejection, Easy to Maintain, Extended Torso Twist, Obsolete (2485), Stable.





ON1-H ORION

Field Testing Summation: Original Orion Primitive Chassis Producer/Site: General Mechanics, Mars Supervising Engineer: Cedric Roberts Prototype Introduction Date: 2456 Non-Production Equipment Analysis:

Primitive Armor Primitive Cockpit Primitive Engine Prototype AC/10

Overview

Recognizing, in the wake of the Lyran Commonwealth's Operation PROMETHEUS, that it would not long be the sole exclusive user of the BattleMech, the Terran Hegemony was looking to significantly expand the capabilities of its 'Mech corps. Before copies of their hulking *Mackie* appeared along every border, it became the goal of the HAF to devise machines ideally tailored to their various anticipated combat roles. The military leadership thus entertained a number of competing proposals for new designs simultaneously, with each aimed at a different battlefield niche. The *Archer* became the HAF's fire support 'Mech, while the *Griffin* became its primary cavalry unit. Meanwhile, General Mechanics of Mars began work on the machine destined to become the Hegemony's premier heavy attack BattleMech: the *Orion*.

GM debuted its original ON1-C *Orion* prototype in 2453 to an interested, but ultimately dismissive, HAF. Although the seventy-five ton BattleMech met the High Command's speed and armor requirements, its firepower—consisting of a single medium autocannon, an SRM quadrack, and pair of medium lasers—were far too lackluster for a front-line war machine. General Mechanics returned to the drawing board, ultimately settling upon a smaller, less powerful engine to free up enough mass for additional weaponry. The HAF didn't approve the *Orion*, however, until General Mechanics' third prototype—the ON1-H, which incorporated the Hegemony's newly developed class-10 heavy autocannon.

Although this final prototype version of the Orion could only claim a top speed equal to that of the heavier Mackie and Banshee BattleMechs, the inclusion of the heavy autocannon gave it a powerful punch. Two five-tube long-range missile launchers added some ability to strike enemies at range, while the two medium lasers and fourtube SRM rack all combined to give it a far more powerful alpha strike capability than either of its heavier cousins. Of course, waste heat would quickly build up to crippling levels for any MechWarrior that continued to press the attack with every weapon at his or her disposal, but this was largely seen as a problem competent MechWarriors could easily avoid.

The HAF pushed General Mechanics hard to produce as many Orions as it could, assigning them to its BattleMech regiments in whole companies at a time, supplementing their growing ranks of Mackies, Banshees, and eventually Archers and Griffins. Less than fifteen years after the ON1-H's debut, General Mechanics partnered with Hegemony Weapons Research and more than a dozen other companies to produce upgrade kits for several of its machines (eventually including the Orion) while the companies themselves underwent the retooling and upgrading that would eventually produce the standards of modernization that would define BattleMech technology for centuries.

Type: Orion

Technology Base: Inner Sphere (Primitive) Tonnage: 75

Torinage. 75			
Equipment			Mass
Internal Structure:			7.5
Engine:	270 Prim	itive	14.5
Walking MP:	3		
Running MP:	5		
Jumping MP:	0		
Heat Sinks:	10		0
Gyro:			3
Cockpit (Primitive):			5
Armor Factor (Primitive):	225		21
	Intern	al Arm	nor
	Structu	ire Vali	ue
Head	3	9	
Center Torso	23	36	5
Center Torso (rear)		10)
R/L Torso	16	22	2
R/L Torso (rear)		10)
R/L Arm	12	21	l
R/L Leg	16	32	2
-			
Weapons and Ammo	Location	Critical	Tonnage
Medium Laser	RA	1	1
Prototype AC/10	RT	7	12
Ammo (AC) 16	RT	2	2
2 LRM 5	LT	2	4
Ammo (LRM) 24	LT	1	1
Ammo (SRM) 25	LT	1	1
SRM 4	LA	1	2
Medium Laser	LA	1	1
Notes: Features the follo	5 5		
Problem (AC/10), Easy	to Maintain, C	bsolete (252	25).
			- 1 •
			-



BWP-X1 YMIR

Field Testing Summation: Original *Ymir* Primitive Chassis Producer/Site: Coventry Defense Conglomerate, Coventry Supervising Engineer: Luther D'Antangelo Prototype Introduction Date: 2462 Non-Production Equipment Analysis:

Primitive Armor Primitive Cockpit Primitive Engine

Overview

Operation PROMETHEUS gave the Lyran Commonwealth the technical specifications it needed to build the *Mackie*, but producing a copy of an existing 'Mech was just one hurdle—however significant—in advancing into the BattleMech era. Designing and mass-producing a wholly new BattleMech was the next, and would be the only way the Commonwealth could even hope to approach parity with the Terran Hegemony. Coventry Defense Conglomerate rose to this challenge with its first "bipedal weapons platform", the BWP-X1 Ymir.

Given a commercial name inspired by the first of the frost giants in Norse mythology, the Ymir was developed by first taking the Mackie's basic frame, shaving ten tons of mass from it, and refining its chassis into something sleeker. The result was a war machine that was more stable and easier to maneuver than the Mackie ever was. In an effort to further distinguish the 'Mech from its inspiration, CDC's engineers devised a unique angled body structure for the Ymir, within which they distributed the 'Mech's weapons and other systems as evenly as possible to help ensure its stability. While its armament drew on the Mackie's arsenal as a template, pairing a class-5 autocannon with a large laser in opposite arms, the greater amount of overall tonnage available for weapons enabled the Ymir's designers mounted a veritable hodge-podge of weapons to cover a wide range of battlefield conditions. Mounted in the right torso were ten LRM tubes, while eight SRM tubes were mounted in the left. Although larger, more integrated missile racks were an available, proven technology at the time, however, Coventry's engineers opted to mount the missile racks in smaller bundles, believing this approach would allow for superior maintenance and adaptability, while allowing the warrior pilot to fine tune his firing options as needed. A pair of right arm-mounted flamers, intended for anti-infantry and anti-vehicle point-defense, rounded out the Ymir's arsenal, though overzealous safety concerns about tapping the engine directly for the plasma prompted CDC to employ fuel-fed flamethrowers on this prototype.

On paper, the *Ymir* possessed enough heat dissipation capacity to fire either its long-range or short-rage weaponry in full barrages without issue. Unfortunately, problems with the prototype heat transfer systems meant the *Ymir* continually ran hot, and the 'Mech suffered even more problems with properly protecting and shielding its flamethrowers. Moreover, despite its sleeker and more stable chassis configuration, the *Ymir* proved no faster than its predecessor despite coming in ten tons lighter.

Because of its flaws, the LCAF initially passed on the *Ymir* as it was presented, and opted to keep the similar *Mackie* as its primary BattleMech until a suitable replacement could be found. Nonetheless,

the High Command continued to show enough interest in the *Ymir* to keep the project from being cancelled entirely. Coventry Defense thus built a handful of *Ymirs* under the LCAF's prototype contract, using them as test beds to develop greater insight into battlefield repair and support needs while working to further refine the design. A little more than ten years later, with the introduction of the superior 2B variant, the *Ymir* finally incorporated the technological advances it needed for LCAF acceptance and mass production began in earnest.

Type: Ymir

Technology Base: Inner Sphere (Primitive) Tonnage: 90

Equipment			Mass	
Internal Structure:			9	
Engine:	325 Prim	itive	23.5	
Walking MP:	3			
Running MP:	5			
Jumping MP:	0			
Heat Sinks:	16		6	
Gyro:			4	
Cockpit (Primitive):			5	
Armor Factor (Primitive):	166		15.5 e	T
	Interno	al Arm	or A	7 14
	Structu	re Vali	ue 🗖	
Head	3	9	7	
Center Torso	29	23	3	
Center Torso (rear)		8		
R/L Torso	19	17	7	
R/L Torso (rear)		6		
R/L Arm	15	18	3	
R/L Leg	19	22	2	
Weapons and Ammo	Location	Critical	Tonnage	~
Large Laser	RA	2	5	
2 Vehicle Flamers	RA	2	1	1
Ammo (Flamer) 20	RA	1	1	Y
2 LRM 5	RT	2	4	
Ammo (LRM) 24	RT	1	1	
4 SRM 2	LT	4	4	
Ammo (SRM) 100	LT	2	2	
AC/5	LA	4	8	
Ammo (AC) 20	LA	1	1	

EVINZ

Notes: Features the following Design Quirks: Obsolete (2480), Poor Cooling Jacket (Large Laser and Flamers), Stable.



8

DUNNING MOBILE TACTICAL COMMAND POST

Field Testing Summation: Common Primitive Vehicle Producer/Site: Altheon Ballistic Dynamics, New Earth Supervising Engineer: Domingo Halleburton Prototype Introduction Date: 2317 Non-Production Equipment Analysis:

Primitive Combat Vehicle

Overview

After Admiral James McKenna forcibly dissolved the Terran Alliance and created the Terran Hegemony with himself at its head, it was clear that the reforms he had pushed for decades within the Alliance navy were only just beginning to be recognized within Alliance's army. The new Hegemony's Director-General knew, however, that war would be coming sooner rather than later—as evidenced by his Campaigns of Persuasion, which brought more than forty worlds under Terra's aegis. Even as Field Marshal Mears Coblitz—McKenna's former army counterpart and current Commanding General of the Hegemony Armed Forces—readied the realm's armies for the conflicts ahead, he began commissioning the new battlefield equipment his army would need in the future.

The Dunning Mobile Tactical Command Post was among the first of these new units. With its expansive suite of advanced communications equipment and dedicated command, control, communications, and intelligence (C³I) staff, the Dunning was designed to give a field general a complete picture of the battlespace while operating under austere conditions in proximity to the front lines. Its chassis was based upon that of an extended APC, and relied upon a tried-and-true wheeled suspension that was easy to maintain and also provided superior mobility across most terrain. Upon this upgraded chassis rode a heavily armored box structure, which was split into three main compartments (four, if one included the front crew/driver compartment). Each of these compartments featured "slide-outs" on both sides that more than doubled the available interior floor space when deployed, transforming the vehicle into a bona fide field command base in minutes.

The forward compartment was dedicated to the Dunning's communications payload and computer systems (manned by a pair of systems engineers), while the extended mid-section was the true command center, providing operating positions for numerous communicators, sensor operators and intelligence officers. The aft-most section served as both a private office and small conference area for the commanding officer, affording a relatively quiet space to brief or debrief troops away from the distracting din of the center.

Although Dunnings were initially destined for assignment only to divisionlevel commanders and higher, McKenna's campaigns in 2316 and 2317 made it clear that the lead assault regiments required the superior C³ that could be provided by the other "command vehicles" or HQ DropShips already in service. Field Marshal Coblitz thus requested that the Dunning be built in sufficient quantity so that each of the HAF's regiments, brigades, and higher-level headquarters formations could be provided at least one for field operations. The first run of this new batch of Dunnings was then quickly distributed among the regiments that would eventually lead McKenna's second major campaign in 2320.

The Dunning would, of course, play a major role in every significant Hegemony military action for well over than a century, surviving throughout the Age of War in upgraded forms (or simply modified in a more patchwork fashion within units that were not fortunate enough to be issued leading-edge technologies). At the same time, its use expanded well beyond the HAF; within a decade of its introduction, Dunnings (or their virtual clones) could be found in service with most Hegemony planetary governments as well as police forces, fire departments, civilian relief agencies and even media and entertainment concerns. Virtually anywhere a mobile communications and information center was needed, one could expect to find a Dunning present.

Type: Dunning

Technology Base: Inner Sphere (Primitive) Movement Type: Wheeled (Medium) Equipment Rating: D/E-X-X Mass: 30 tons



Weapons and Ammo	Location	Tonnage
None	—	—
Crew: 11 (2 officers, 9 enliste	d/non-rated)	
Cargo: 3 tons infantry compart	ment	1 Door (Rear)

Notes: Features Off-Road Chassis Modification and communications equipment (7 tons). Features the following Design Quirks: Improved Communications, Difficult to Maintain, Gas Hog, Obsolete (2650).

ASHER HOVER SCOUT

Field Testing Summation: Common Primitive Hovercraft Producer/Site: Sheinhardt Universal Technologies, Sirius Supervising Engineer: Walter D.C. Slattery Prototype Introduction Date: 2298 **Non-Production Equipment Analysis:** Primitive Combat Vehicle

Overview

Designed and built in the final years of the twenty-third century, the "Armed Scout-Hover" was Sheinhardt Universal Technologies' first foray into military manufacturing. The "AS-H", or simply "Asher", began life as a failed heavy hover transport meant to haul agricultural and industrial wastes. When it wasn't accepted in that role, SUT swapped in a more powerful engine, mounted a series of missile launchers and machine guns, and bolted on several tons of armor, marketing it as a "cost-effective alternate to over-priced and over-engineered fiscal sinkholes."

SUT built four demonstration models from the ground up, upon whose performance (allegedly aided by sizeable "donations" made on the company's behalf) the Alliance Global Militia placed an initial order of five thousand units. SUT quickly subcontracted those out to a long series of subsidiary companies located throughout (and, in some cases, beyond) the Terran Alliance, few of which employed significant quality control measures on their supply orders or production lines. The relatively small number of Ashers built by SUT on Sirius was of top quality, however, and found their way to select AGM units, where they received high praise from their operators. This acclaim in turn convinced the Militia that the Asher was a valuable battlefield unit. Unfortunately for the rest of the AGM, the Ashers delivered to them were a far more mixed lot. Many regiments received models constructed by several different entities, none of which utilized exactly the same components or manufacturing techniques, significantly complicating logistical needs.

On paper, the Asher itself was an acceptable—if not ideal—scout craft. Its top speed of 129 kph was barely adequate for battlefield reconnaissance, and its arsenal of long-range missiles, machine guns, and flamethrowers ensured that most targets it engaged did not remain operational for long. Its relatively heavy armor, meanwhile, usually enabled its own escape when it was overmatched. But then came the drawbacks, which included a habit of yawing (fishtailing) uncontrollably, turret mechanisms that occasionally slowed (or froze up entirely) during traverse, as well as the inconsistent use of standard components across its multiple manufacturers. For most regiments, the Asher found itself used more as a heavy cavalry unit, or in other roles where precision driving was less critical, and many AGM troops developed a habit of identifying the vehicle as the "Ten-Pack", in reference both to its ten missile tubes as well as its tendency to handle as if a drunkard was at the controls.

Despite its flaws, the Asher Hover Scout remained in production for decades, while SUT's many subsidiaries actively marketed cosmetic variations of the vehicle to each the five Great Houses throughout the twenty-fourth century. It was this practice that ultimately brought the weight of the Terran Hegemony government down upon Sheinhardt Universal Technologies. Declaring the company in open violation of Terran law, the Hegemony dissolved SUT, and auctioned off its assets throughout the realm. Today, many military historians believe that some of these assets eventually came to be owned by subsidiaries of the Quikscell Company—a corporation that certainly espouses many of SUT's more telling policies.

Type: Asher Hover Scout

Technology Base: Inner Sphere (Primitive) Movement Type: Hover (Medium) Equipment Rating: D/C-F-X Mass: 45 tons

Equipment Mass Ammo (Flamer) 20 Body Chassis: 11.5 Machine Gun Front Engine/Controls: 18.5 Advanced Fire Control System Body ICE Type: Crew: 3 (1 driver, 2 gunners) Cruise MP: 8 Flank MP: 12 Cargo: Heat Sinks: 0 0 None Fuel: 2 1.081 km .5 Turret: Obsolete (2360), Poor Reputation. Armor Factor (BAR 7): 49 2.5 Internal Armor Structure Value Front 5 11 5/5 11/11 R/L Side Rear 5 6 Turret 5 10

Weapons and Ammo Location Tonnage 2 LRM 5 Turret 4 Ammo (LRM) 24 Body 2 Machine Guns Turret Ammo (MG) 200 Body 1 Vehicle Flamer .5 Front .5 1

Notes: Features the following Design Quirks: Hard to Pilot, Non-Standard Parts,

RECOVERY VEHICLES

Field Testing Summation: Common Primitive Recovery Vehicles Producer/Site: Various Supervising Engineer: Various Prototype Introduction Date: 2439 Non-Production Equipment Analysis: Primitive Combat Vehicle

Overview

Prior to the introduction of the BattleMech, recovery vehicles were typically used only to pull damaged or stuck tanks and other vehicles off of the battlefield, and then tow them to either a maintenance depot or scrap pile. The advent of the 'Mech, however, brought with it a host of new technologies and methodologies that cascaded throughout the military, government, and civil sectors of each realm that fielded these new titans. While the engineers working upon the theoretical plane who designed the BattleMechs assumed that other 'Mechs could help move any disabled units that could not be reached by a repair crew, Colonel Charles Kincaid's initial test runs in the first prototype *Mackie* quickly disabused anyone watching of that naïve notion.

The first BattleMech recovery vehicles were a mish-mash of heavily modified construction equipment—often a series of cranes and/or winches mounted on the back of a dump truck or other heavy transport—but from those humble (and resourceful) beginnings came the basic principles that have guided the design and operation of battlefield recovery vehicles for more than half a millennium.



The Hegemony's UTR-588 was one of the earliest vehicles built from the ground up for BattleMech recovery. At ninety tons, it had the horsepower and counter-balancing mass to drag the hundred-ton *Mackie* out of any swamp its pilot became mired in, while its heavy tracks ensured that it and its cargo could make it back out. Its pair of lift hoists could be used to recover a vehicle as well, but its cargo bed was designed specifically to hold a strapped-down 'Mech upon it, and the vehicle had no provision for towing a trailer or other vehicle behind it.

Veridian Dynamics' RR-3, a follow-on to several earlier dedicated recovery vehicles, was designed for heavy-class and smaller BattleMechs. Its oversize wheels allowed it to effectively function off-road while its winches, hoists, hitches and mounting points meant it could just as effectively transport a disabled BattleMech off of the battlefield as it could a tank.

Both the UTR-588 and RR-3 served as the prototypical "modern" recovery vehicles within the Age of the BattleMech. As military 'Mechs continued to proliferate, so too would these utility vehicles as each realm developed their own analogs to meet the increasingly heavy demands of their support assets.

Type: RR-3 Technology Base: Inner Sph Movement Type: Wheeled (I Equipment Rating: D/D-F-X Mass: 55 tons		
Equipment		Mass
Chassis:		15
Engine/Controls:		8.5
Type:	ICE	
Cruise MP:	3	
Flank MP:	5	
Heat Sinks:	0	0
Fuel:	1,764 km	1.5
Armor Factor (BAR 6):	105	4
	Internal	Armor
	Structure	Value
Front	6	30
R/L Side	6/6	30/30
Rear	6	15
Weapons and Ammo	Location	Tonnage
None	_	—

Crew: 2 (2 enlisted/non-rated)

Cargo: 20 tons standard

1 Door (Rear)

Notes: Features Off-Road and Tractor Chassis Modifications, 2 lift hoists (6 tons, Rear). Features the following Design Quirks: Easy to Maintain, Fragile Fuel Tank, Gas Hog, Obsolete (2550).

Type: UTR-588

Technology Base: Inner Sphere (Primitive) Movement Type: Tracked (Medium) Equipment Rating: D/D-F-X Mass: 90 tons

Equipment Chassis: Engine/Controls: Type: Cruise MP: Flank MP: Heat Sinks: Armor Factor (BAR 6): Front R/L Side Rear	Fusion 4 10 184 Internal Structure 9 9/9 9	Mass 13.5 23.5 0 7 Armor Value 50 50/50 34
Weapons and Ammo None	Location	Tonnage
Crew: 2 (2 enlisted/non-rated) Cargo: 40 tons standard		1 Door (Rear)

Notes: Features 2 lift hoists (6 tons, Rear). Features the following Design Quirks: Obsolete (2530), Poor Performance.

SELF-PROPELLED ARTILLERY

Field Testing Summation: Common Primitive Self-Propelled Guns Producer/Site: Various Supervising Engineer: Various Prototype Introduction Date: 2321 **Non-Production Equipment Analysis:** Primitive Combat Vehicle

Overview

After James McKenna's coup, Field Marshal Mears Coblitz (though technically Commanding General at the time, he retained his old Terran Alliance AGM rank during the Hegemony's early years) united the disparate fighting arms of the new military under a single banner. Working feverishly to prevent the fractured and factionalized Alliance military from descending into full-blown civil war before McKenna could put an end to the Alliance itself, Coblitz led both the ground war campaigns that would bring dozens of worlds under Terra's aegis, as well as the modernization efforts for the HAF itself. The former, of course, fueled the latter, but Coblitz-with the full support of his new Director-General—brutally cut the chaff from within the HAF as he introduced new methodologies and new equipment into the Hegemony arsenal.

The introduction of new front-line combat units, such as the Merkava Mk. III heavy tank, was the priority, but soon enough the HAF turned its attention toward combat support units-which the Alliance had long ignored, even during its late twenty-third century rearmament campaign. The HAF's artillery corps, in particular, received a much-needed and well-received upgrade.

Field Marshal Coblitz personally drafted requirements for two different self-propelled artillery pieces, one utilizing the heaviest gun possible, which would be primarily assigned to division-level artillery battalions, and a second, lighter gun for assignment to regiments and brigades. The Apostle and the Reaper, respectively, debuted in less than two years. The former vehicle carried a powerful Sniper weapon system, while the latter featured the lighter, but farther-reaching Thumper.

During McKenna's campaigns to expand and strengthen his Terran Hegemony, both of these artillery platforms played significant roles in supporting the ground actions the claimed world after world for Terra. By midcentury, they had all but supplanted the variety of different static, towed, and self-propelled artillery that had long served the now-defunct Terran Alliance. Both remained in service for more than a century until replaced by more modern designs, though in many cases the guns themselves survived even longer in fixed positions—in fact, at least half a dozen remain today in ceremonial mounts on Terra and New Earth.

Type: Reaper

Technology Base: Inner Sphere (Primitive) Movement Type: Tracked (Medium) Equipment Rating: C/C-F-X Mass: 55 tons

Equipment Chassis:		Mass 9.5
Engine/Controls:	105	19
Туре:	ICE	
Cruise MP:	3	
Flank MP:	5	
Heat Sinks:	1	1
Power Amplifier:		.5
Fuel:	526 km	1
Armor Factor (BAR 6):	72	3.5
	Internal	Armor
	Structure	Value
Front	6	18
R/L Side	6/6	18/18
Rear	6	18
Weapons and Ammo	Location	Tonnage
Thumper	Front	15
Ammo (Thumper) 60	Body	3
Small Laser	Front	.5

Advanced Fire Control System Body

Crew: 7 (1 officer, 2 enlisted/non-rated, 4 gunners) Cargo:

None

Notes: Features the following Design Quirks: Anti-Aircraft Targeting, Obsolete (2480), Poor Sealing.

Type: Apostle

Technology Base: Inner Sphere (Primitive) Movement Type: Tracked (Medium) Equipment Rating: C/C-F-X Mass: 80 tons

Equipment Chassis:		Mass 17
Engine/Controls:		27.5
Type:	ICE	
Cruise MP:	3	
Flank MP:	5	
Heat Sinks:	1	1
Power Amplifier:		.5
Fuel:	1,090 km	3
Armor Factor (BAR 6):	104	5
	Internal	Armor
	Structure	Value
Front	8	30
R/L Side	8/8	30/30
Rear	8	14
Weapons and Ammo	Location	Tonnage
Sniper	Front	20
Ammo (Sniper) 30	Body	3
Small Laser	Front	.5

Crew: 10 (2 officers, 2 enlisted/non-rated, 6 gunners) Cargo: None

Advanced Fire Control System

Notes: Features Tractor Chassis Modification. Features the following Design Quirks: Improved Communications, Obsolete (2485).

Body

2.5



2

COLT MEDIUM FIGHTER

Field Testing Summation: Primitive Conventional Fighter Producer/Site: Edasich Aerospace Corporation, Edasich Supervising Engineer: Lucius Hochstem Prototype Introduction Date: 2354 Non-Production Equipment Analysis: Primitive Conventional Fighter

Overview

The unification of the Federation of Skye, Protectorate of Donegal and Tamar Pact into the Lyran Commonwealth brought with it both economic boon and political chaos—the former as new markets and new sources of raw materials, unfettered by steep tax levies, encouraged both consumers and manufacturers alike to invest in the future, the latter as the leaders of the three former nations struggled with partisanship and corruption to form a strong national government. The political chaos and uncertainty would continue on for decades, and though the Lyran Commonwealth Armed Forces as a true unified national military would yet take some time to emerge, defense manufacturers throughout this new Commonwealth took full advantage of that chaos.

Edasich Aerospace Corporation, which expanded its operations and its offerings significantly following the Commonwealth's formation, debuted the Colt Medium Fighter amid the continuing political uncertainty. With more than half of its mass devoted to its power plant, speed and maneuverability were the Colt's defining characteristics, followed closely by endurance—the Colt carried four tons of fuel in its internal tanks, and could carry up to four additional tanks on its external hard points.

By contrast, less than twenty percent of the Colt's mass was devoted to weaponry; a five-tube LRM launcher in each wing, both fed by a single one-ton ammunition bay, provided the fighter's main firepower. (A short-range variant, which swapped the LRMs for quad-SRM launchers also fed by a single one-ton

magazine, was introduced by EAC in 2375.) For ground support missions where long-distance flying was not required, Colt crews typically eschewed extra fuel tanks in favor of a devastating load of cluster or incendiary bombs.

Colt sales were steady, if not brisk, enough for Edasich Aerospace to maintain production as planetary militias and private security concerns across the Commonwealth prepared themselves for the worst. Robert Marsden's assumption of the title Archon Basileus would soon propel the Colt to legendary status. Under Marsden's direction, the LCAF swelled its ranks, expanding its ground and air forces—with the Colt taking a prominent role among the Lyran fighter corps. Within just a few years, images of Colts attacking rebel positions on Skye and Tamar became icons of Marsden's rise to power, ensuring the fighter's long service within the Lyran air forces.

Type: Colt Medium Fighter

Technology Base: Inner Sphere (Primitive) Movement Type: Fixed Wing (Medium) Equipment Rating: D/D-X-X Mass: 40 tons

Equipment		Mass
Chassis:		5
Engine/Controls:		23.5
Туре	ICE	
Safe Thrust:	5	
Maximum Thrust:	8	
Structural Integrity:	6	
Heat Sinks:	0	0
Fuel:	140	3.5
Armor Factor (BAR 5):	44	1.5
	Armor	
	Value	
Nose:	12	
Wings:	12/12	
Aft:	8	



Weapons and Ammo	Location	Tonnage	Heat	SRV	MRV	LRV	ERV
LRM 5	RW	2	0	3	3	3	_
LRM 5	LW	2	0	3	3	3	_
Ammo (LRM) 24	_	1					
5 External Stores Hardpoints	s —	1					
Advanced Fire Control Syste	em —	.5					

Crew: 4 (2 officers, 2 gunners)

Notes: Features the following Design Quirks: Atmospheric Flyer, Difficult Ejection, Low Profile, Obsolete (2530).



SATURN PATROL SHIP

Field Testing Summation: Common Primitive DropShip Producer/Site: Dramm-Chance Interstellar Technologies, Jupiter Supervising Engineer: Dr. Christine Hope Landau Prototype Introduction Date: 2243

Non-Production Equipment Analysis:

Primitive DropShip Prototype Autocannon/5

Overview

The heady days of the twenty-third century are rife with tales of daring, intrigue and horror. Thousands upon thousands of DropShips and JumpShips were constructed to transport millions upon millions of colonists to the stars. Given the inherently peaceful nature of those missions, few ships were armed at all, and most of those that were carried only minimal armaments intended for defense against space debris rather than any determined attack. Soon enough, unfortunately, pirate and outlaw activity rose to the point that Terra was forced to provide its new colonies with some modicum of protection. A number of up-armed and up-armored variants of common transport vessels appeared in short order, but the first vessel that the Terra Alliance built specially for deep space combat and escort was the Saturn Patrol Ship.

The Saturn was a simple but effective large craft. Massing just 1,200 tons, it was compact enough to fit within the same JumpShip holds as the transports it was designed to protect, yet possessed a powerful engine that gave it an acceleration profile better than most other spacecraft of the era. Meanwhile, every quarter of the ship mounted an arsenal of the Alliance's brand-new autocannon weapon systems, backed up by a cluster of machine guns in semi-autonomous blister turrets. This enabled the Saturn's gunners to effectively and decisively engage even those targets that managed to outmaneuver the ship. As its secondary duties involved curtailing illegal activities, the Saturn was also equipped with facilities to house a dedicated, fifteen-man contingent of armed marines who could be deployed for any manner of operations from routine customs inspections, to deep-space rescue, to hostile boarding actions.

Throughout the twenty-third century, the Terran Alliance built thousands of *Saturns*, assigning all but a handful to patrol and defense duties within Alliance-colonized systems across known space. The *Saturn* played key roles on both sides of the Outer Reaches Rebellion, but after the Alliance's Demarcation Declaration, the numbers in service beyond Alliance boundaries steadily declined as supplies of replacement parts dried up. The Alliance kept the *Saturn* in service through the end of the twenty-third century, by which time it was largely replaced by more modern and capable designs. Those surviving vessels not redeployed to secondary roles in less-important star systems were either sold off in military surplus auctions, or were used in training exercises.

Type: Civilian Spheroid Use: Patrol Ship Tech: Inner Sphere Introduced: 2243 Mass: 1,200 tons

Dimensions

Length: 18 meters Width: 18 meters Height: 22 meters

Fuel: 150 tons (4,687 points) Tons/Burn-Day: 4.52 Safe Thrust: 5 Maximum Thrust: 8 Heat Sinks: 28 Structural Integrity: 15

Armor

Nose: 110 Sides: 95 Aft: 81

Cargo

Bay 1: Cargo (43.5 tons) 2 Doors

Life Boats: 4

Escape Pods: 2

Crew: 2 officers, 6 enlisted/non-rated, 5 gunners, 2 steerage-class passengers, 15 marines

Notes: Equipped with 33 tons of primitive DropShip armor. Features the following Design Quirks: Atmospheric Flight Instability, Improved Communications, Obsolete (2300).



	weaponscapital Attack values (Standard)				anuaru)
Arc (Heat) Type	Short	Medium	Long	Extreme	Class
Nose (2 heat)					
1 Prototype AC/5 (15 rounds)	1 (5)	1 (5)	_	—	Autocannon
4 Machine Guns (200 rounds)	1 (8)	_	_	— P	oint Defense
FR/FL (2 heat)					
1 Prototype AC/5 (15 rounds)	1 (5)	1 (5)	_	— .	Autocannon
4 Machine Guns (200 rounds)	1 (8)	_	_	— P	oint Defense
AR/AL Aft (2 heat)					
1 Prototype AC/5 (15 rounds)	1 (5)	1 (5)	_	— .	Autocannon
4 Machine Guns (200 rounds)	1 (8)	_	_	— P	oint Defense
Aft (4 heat)					
1 Prototype AC/5 (15 rounds)	1 (5)	1 (5)	_	— .	Autocannon
4 Machine Guns (200 rounds)	1 (8)	_	_	— P	oint Defense

ncCapital Attack Values (Standard



LEVIATHAN JUMPSHIP

Field Testing Summation: Early Common JumpShip Producer/Site: Lockheed Galactic, Thorin Supervising Engineer: Nuvi Puelcher Prototype Introduction Date: 2468 Non-Production Equipment Analysis:

Prototype JumpShip Docking Collars

Overview

Lockheed Galactic was one of the very first JumpShip producers to not only embrace the technological advances made by its competitor, Blue Nose Interstellar Technologies, but to pay a premium to use those same innovations on its own ships. The ability to carry DropShips externally through a hyperspace jump was a tremendous boon that Lockheed Galactic was determined to make the most of.

The Leviathan-class JumpShip was an ambitious superluminal transport vessel destined to become the company's signature; profits from its sales would help expand Lockheed's interstellar industrial empire to dozens of more systems. It doubled Blue Nose's *Liberty* in DropShip capacity, while also more than doubling the internal cargo capacity and shuttlecraft bays—all with less crew and a final price tag of just a third more than a fully equipped *Liberty*. Not only were the *Leviathan*'s operating costs lower, but her crew and passenger comfort were also priorities for which Lockheed sought to provide. A full ninety-meter grav deck was included on the *Leviathan* solely for use by the crew and passengers of the DropShips it carried, while a second grav deck was reserved for the JumpShip's own complement. In addition to this, large access panels and roomy maintenance tunnels ensured that upkeep and repair of a *Leviathan* were easy processes.

The Leviathan proved immensely popular at its debut, especially with large transport concerns that not only found room to move their own DropShips, but could also regularly supplement their income by carrying additional "tramp" ships from system to system. Lockheed Galactic continued to build the Leviathan for decades after its introduction, though by the final years of the twenty-fifth century, the ship had received a new reputation: easy pickings. Pirates, bandits and enemy boarding parties found the Leviathan's many access panels and maintenance corridors made entering and commandeering the vessel embarrassingly easy, while the ship itself could likewise be easily crippled by simply targeting its exposed fuel bunkers.

Despite its drawbacks, the *Leviathan* lived on, though most ships in military and government service (and more than a few in corporate employ) were subsequently modified to seal up its most easily accessible entry points, while also adding quarters for armed security marines. The *Star Lord*, and other large-capacity JumpShips like it, eventually supplanted the *Leviathan* a century after its introduction, a process undoubtedly hastened by the latter ship's unsuitability as a wartime transport during the newly created Star League's campaigns against the Periphery.

Type: JumpShip Use: Interstellar Transport Tech: Inner Sphere Introduced: 2468 Mass: 410,000 tons Length: 760 meters Sail Diameter: 1,400 meters Fuel: 1,000 tons (2,500 points) Tons/Burn-Day: 3.95 Station-Keeping Thrust: 0.1 Sail Integrity: 6 KF Drive Integrity: 8 Heat Sinks: 144 Structural Integrity: 1

Armor (Capital)

Nose: 13 Fore-Sides: 13 Aft-Sides: 13 Aft: 12

Cargo

 Bay 1: Small Craft (4)
 2 Doors

 Bay 2: Cargo (1,235 tons)
 2 Doors

DropShip Capacity: 8 Grav Decks: 2 (90-meter diameter)

Life Boats: 5

Escape Pods: 5

Crew: 5 officers, 22 enlisted/non-rated, 6 first-class passengers, 11 steerage-class passengers, 20 bay personnel

Notes: Equipped with 192.5 tons of standard armor. Features the following Design Quirks: Bad Reputation, Docking Arms, Easy to Repair, Fragile Fuel Tank, Obsolete (2590).

Arc (Heat) Type None WeaponsCapital Attack Values (Standard) Short Medium Long Extreme Class























GROUND COMBAT VEHICLE HIT LOCATION TABLE

		ATTACK DIRECTION	
2D6 Roll	FRONT	REAR	SIDES
2*	Front (critical)	Rear (critical)	Side (critical)
3	Front†	Rear†	Side†
4	Front†	Rear†	Side†
5	Right Side †	Left Side †	Front†
6	Front	Rear	Side
7	Front	Rear	Side
8	Front	Rear	Side (critical)*
9	Left Side †	Right Side†	Rear†
10	Turret	Turret	Turret
11	Turret	Turret	Turret
12*	Turret (critical)	Turret (critical)	Turret (critical)

*A result of 2 or 12 (or an 8 if the attack strikes the side) may inflict a critical hit on the vehicle. For each result of 2 or 12 (or 8 for side attacks), apply damage normally to the armor in that section. The attacking player then automatically rolls once on the Ground Combat Vehicle Critical Hits Table below (see *Combat*, p. 192 in *Total Warfare* for more information). A result of 12 on the Ground Combat Vehicles Thics Table below (see *Combat*, p. 192 in *Total Warfare* for more information). A result of 12 on the Ground Combat Vehicles Thic Location Table may inflict critical hit against the turret; if the vehicle has no turret, a 12 indicates the chance of a critical hit on the side corresponding to the attack direction. The statecking player also rolls once on the Motive System Damage Table at right (see *Combat*, p. 192 in *Total Warfare* for more information). Apply damage at the end of the phase in which the damage takes effect. Side hit strike the side as indicated by the attack direction. For example, if an attack hits the right side armor. If the vehicle has no turret, a turret hit strikes the armor on the side attacked.

MOTIVE SYSTEM DAMAGE TABLE					
2D6 Roll 2-5 6-7 8-9		+1 modifier to all Driving Skill ge; –1 Cruising MP, +2 modi s			
10–11 12+	Heavy damage; +3 modifier to a	only half Cruising MP (round II Driving Skill Rolls no movement for the rest of			
Attack Direction I Hit from rear Hit from the sides	+1	Vehicle Type Modifiers: Tracked, Naval Wheeled Hovercraft, Hydrofoil WiGE	+0 +2 +3 +4		

GROUND COMBAT VEHICLE CRITICAL HITS TABLE

LOCATION HIT

2D6 Roll 2–5 N 6 7 Wea 8 9 10 Co 11 Wea 12

FRONT No Critical Hit Driver Hit Weapon Malfunction Stabilizer Sensors Commander Hit Weapon Destroyed Crew Killed SIDE No Critical Hit Cargo/Infantry Hit Weapon Malfunction Crew Stunned Stabilizer Weapon Destroyed Engine Hit Fuel Tank* REAR No Critical Hit Weapon Malfunction Cargo/Infantry Hit Stabilizer Weapon Destroyed Engine Hit Ammunition ** Fuel Tank *

TURRET No Critical Hit Stabilizer Turret Jam Weapon Malfunction Turret Locks Weapon Destroyed Ammunition ** Turret Blown Off

*If Combat Vehicle has ICE engine only. If Combat Vehicle has a fusion engine, treat this result as Engine Hit. **If Combat Vehicle carries no ammunition, treat this result as Weapon Destroyed.



GROUND COMBAT VEHICLE HIT LOCATION TABLE



*A result of 2 or 12 (or an 8 if the attack strikes the side) may inflict a critical hit on the vehicle. For each result of 2 or 12 (or 8 for side attacks), apply damage normally to the armor in that section. The attacksting player then automatically rolls once on the Ground Combat Vehicle Critical Hits Table below (see *Combat*, p. 129 in *Total Warfare* for more information). A result of 12 on the Ground Combat Vehicle Critical Hits Table below (see *Combat*, p. 129 in *Total Warfare* for more information). A result of 12 on the Ground Combat Vehicle Stitu Contex (p. 129 in *Total Warfare* for more information), but the attack direction, but the attack direction, p. 192 in *Total Warfare* for more information), Apply damage each if its amor remains intact. Apply damage takes effect. Side hits strike the side as indicated by the attack direction. For example, if an attack hits demage takes effect.

ΜΟΤΙΛ	/E SYSTEN	/I DAMAGE TAE	BLE		
2D6 Roll 2–5 6–7	EFFECT * No effect Minor damage: +	1 modifier to all Driving Skill	Rolls		
8–9	Moderate damag Driving Skill Rolls	e; –1 Cruising MP, +2 modi	fier to all		
10-11	Heavy damage; only half Cruising MP (round fractions up), +3 modifier to all Driving Skill Rolls				
12+	Major damage; n Vehicle is immobi	o movement for the rest of le.	the game.		
Attack Direction N	/lodifier:	Vehicle Type Modifiers:			
Hit from rear	+1	Tracked, Naval	+0		
Hit from the sides	+2	Wheeled	+2		
		Hovercraft, Hydrofoil	+3		
		VViGE	+4		
WiGE +4 *All movement and Driving Skill Roll penatises are cumulative. However, each Driving Skill Roll modifier can only be applied once. For example, if a roll of 6-7 is made for a vehicle, inflicting a +1 modifier, that is the only time that particuliar +1 can be applied; a subsequent roll of 6-7 has no additional effect. This means the maximum Driving Skill Roll modifier that can be inflicted from the Mottve System Damage Table is +6.1 fa units Cruising MP is reduced to 0, it cannot move for the rest of the game, but is not considered an immobile target. In addition, all motive system damage takes effect at the end of the phase in which the damage occurred. For example, if two units are attacking the same Combat Vehicle during the 'Weapon Attack Phase and the first unit inflicts motive system damage take Phase. It is a the end of the phase in which as 12, the -4 immobile target modifier would not apply for the second unit. However, the -4 modifier would take effect during the Physical Attack Phase. If a hover vehicle is rendered immobile while over a Depth 1 or deeper water hex, it sinks and is destroyed.					

GROUND COMBAT VEHICLE CRITICAL HITS TABLE

LOCATION HIT

2D6 Roll	
2-5	N
6	
7	Wea
8	
9	0-
10	Co
11	Wea
12	

FRONT No Critical Hit Driver Hit /eapon Malfunction Stabilizer Sensors Commander Hit Veapon Destroyed Crew Killed SIDE No Critical Hit Cargo/Infantry Hit Weapon Malfunction Crew Stunned Stabilizer Weapon Destroyed Engine Hit Fuel Tank* REAR No Critical Hit Weapon Malfunction Cargo/Infantry Hit Stabilizer Weapon Destroyed Engine Hit Ammunition ** Fuel Tank *

TURRET No Critical Hit Stabilizer Turret Jam Weapon Malfunction Turret Locks Weapon Destroyed Ammunition ** Turret Blown Off

*If Combat Vehicle has ICE engine only. If Combat Vehicle has a fusion engine, treat this result as Engine Hit. **If Combat Vehicle carries no ammunition, treat this result as Weapon Destroyed.



GROUND COMBAT VEHICLE HIT LOCATION TABLE

		ATTACK DIRECTION	
2D6 Roll	FRONT	REAR	SIDE§
2*	Front (critical)	Rear (critical)	Side (critical)
3	Front†	Rear†	Side†
4	Front†	Rear†	Side†
5	Right Side †	Left Side [†]	Front [†]
6	Front	Rear	Side
7	Front	Rear	Side
8	Front	Rear	Side (critical)*
9	Left Side †	Right Side†	Rear†
10	Turret	Turret	Turret
11	Turret	Turret	Turret
12*	Turret (critical)	Turret (critical)	Turret (critical)

*A result of 2 or 12 (or an 8 if the attack strikes the side) may inflict a critical hit on the vehicle. For each result of 2 or 12 (or 8 for side attacks), apply damage normally to the armor in that section. The attacking player then automatically rolls once on the Ground Combat Vehicle Critical Hits Table below (see *Combat*, p. 192 in *Total Warfare* for more information). A result of 12 on the Ground Combat Vehicles Thics Table below (see *Combat*, p. 192 in *Total Warfare* for more information). A result of 12 on the Ground Combat Vehicles Thic Location Table may inflict critical hit against the turret; if the vehicle has no turret, a 12 indicates the chance of a critical hit on the side corresponding to the attack direction. The statecking player also rolls once on the Motive System Damage Table at right (see *Combat*, p. 192 in *Total Warfare* for more information). Apply damage at the end of the phase in which the damage takes effect. Side hit strike the side as indicated by the attack direction. For example, if an attack hits the right side armor. If the vehicle has no turret, a turret hit strikes the armor on the side attacked.

ΜΟΤΙ	/E SYSTE	M DAMAGE TAE	BLE		
2D6 Roll 2-5	EFFECT* No effect				
6–7 8–9		+1 modifier to all Driving Skill age; –1 Cruising MP, +2 modit s			
10–11 12+	Heavy damage; +3 modifier to a	only half Cruising MP (round all Driving Skill Rolls no movement for the rest of			
Attack Direction M Hit from rear Hit from the sides	Modifier: +1 +2	Vehicle Type Modifiers: Tracked, Naval Wheeled Hovercraft, Hydrofoil WiGE	+0 +2 +3 +4		

GROUND COMBAT VEHICLE CRITICAL HITS TABLE

LOCATION HIT

2D6 Roll 2–5 N 6 7 Weal 8 9 10 Co 11 Wea 12

FRONT No Critical Hit Driver Hit Weapon Malfunction Stabilizer Sensors Commander Hit Weapon Destroyed Crew Killed

SIDE No Critical Hit Cargo/Infantry Hit Weapon Malfunction Crew Stunned Stabilizer Weapon Destroyed Engine Hit Fuel Tank* REAR No Critical Hit Weapon Malfunction Cargo/Infantry Hit Stabilizer Weapon Destroyed Engine Hit Ammunition ** Fuel Tank *

TURRET No Critical Hit Stabilizer Turret Jam Weapon Malfunction Turret Locks Weapon Destroyed Ammunition ** Turret Blown Off

*If Combat Vehicle has ICE engine only. If Combat Vehicle has a fusion engine, treat this result as Engine Hit. **If Combat Vehicle carries no ammunition, treat this result as Weapon Destroyed.



GROUND COMBAT VEHICLE HIT LOCATION TABLE

		ATTACK DIRECTION	
2D6 Roll	FRONT	REAR	SIDE§
2*	Front (critical)	Rear (critical)	Side (critical)
3	Front†	Rear†	Side†
4	Front†	Rear†	Side†
5	Right Side †	Left Side †	Front†
6	Front	Rear	Side
7	Front	Rear	Side
8	Front	Rear	Side (critical)*
9	Left Side†	Right Side†	Rear†
10	Turret	Turret	Turret
11	Turret	Turret	Turret
12*	Turret (critical)	Turret (critical)	Turret (critical)

*A result of 2 or 12 (or an 8 if the attack strikes the side) may inflict a critical hit on the vehicle. For each result of 2 or 12 (or 8 for side attacks), apply damage normally to the armor in that section. The attacking player then automatically rolls once on the Ground Combat Vehicle Critical Hits Table below (see *Combat*, p. 192 in *Total Warfare* for more information). A result of 12 on the Ground Combat Vehicles Thics Table below (see *Combat*, p. 192 in *Total Warfare* for more information). A result of 12 on the Ground Combat Vehicles Thic Location Table may inflict critical hit against the turret; if the vehicle has no turret, a 12 indicates the chance of a critical hit on the side corresponding to the attack direction. The statecking player also rolls once on the Motive System Damage Table at right (see *Combat*, p. 192 in *Total Warfare* for more information). Apply damage at the end of the phase in which the damage takes effect. Side hit strike the side as indicated by the attack direction. For example, if an attack hits the right side armor. If the vehicle has no turret, a turret hit strikes the armor on the side attacked.

ΜΟΤΙΝ	/E SYSTE	M DAMAGE TAE	BLE		
2D6 Roll 2-5	EFFECT* No effect				
6-7 8-9		+1 modifier to all Driving Skil age; –1 Cruising MP, +2 modi s			
10–11 12+	Heavy damage; +3 modifier to a	only half Cruising MP (round all Driving Skill Rolls no movement for the rest of			
Attack Direction I Hit from rear Hit from the sides	Vlodifier: +1 +2	Vehicle Type Modifiers: Tracked, Naval Wheeled Hovercraft, Hydrofoil WiGE	+0 +2 +3 +4		

GROUND COMBAT VEHICLE CRITICAL HITS TABLE

LOCATION HIT

2D6 Roll	
2-5	٦
6	
7	Wea
8 9	
10	С
11	We
12	

FRONT No Critical Hit Driver Hit Veapon Malfunction Stabilizer Sensors Commander Hit Veapon Destroyed Crew Killed SIDE No Critical Hit Cargo/Infantry Hit Weapon Malfunction Crew Stunned Stabilizer Weapon Destroyed Engine Hit Fuel Tank* REAR No Critical Hit Weapon Malfunction Cargo/Infantry Hit Stabilizer Weapon Destroyed Engine Hit Ammunition ** Fuel Tank *

TURRET No Critical Hit Stabilizer Turret Jam Weapon Malfunction Turret Locks Weapon Destroyed Ammunition ** Turret Blown Off

*If Combat Vehicle has ICE engine only. If Combat Vehicle has a fusion engine, treat this result as Engine Hit. **If Combat Vehicle carries no ammunition, treat this result as Weapon Destroyed.



GROUND COMBAT VEHICLE HIT LOCATION TABLE

		ATTACK DIRECTION	
2D6 Roll	FRONT	REAR	SIDE§
2*	Front (critical)	Rear (critical)	Side (critical)
3	Front†	Rear†	Side†
4	Front†	Rear†	Side†
5	Right Side †	Left Side †	Front†
6	Front	Rear	Side
7	Front	Rear	Side
8	Front	Rear	Side (critical)*
9	Left Side †	Right Side†	Rear†
10	Turret	Turret	Turret
11	Turret	Turret	Turret
12*	Turret (critical)	Turret (critical)	Turret (critical)

*A result of 2 or 12 (or an 8 if the attack strikes the side) may inflict a critical hit on the vehicle. For each result of 2 or 12 (or 8 for side attacks), apply damage normally to the armor in that section. The attacking player then automatically rolls once on the Ground Combat Vehicle Critical Hits Table below (see *Combat*, p. 192 in *Total Warfare* for more information). A result of 12 on the Ground Combat Vehicles Thics Table below (see *Combat*, p. 192 in *Total Warfare* for more information). A result of 12 on the Ground Combat Vehicles Thic Location Table may inflict critical hit against the turret; if the vehicle has no turret, a 12 indicates the chance of a critical hit on the side corresponding to the attack direction. The statecking player also rolls once on the Motive System Damage Table at right (see *Combat*, p. 192 in *Total Warfare* for more information). Apply damage at the end of the phase in which the damage takes effect. Side hit strike the side as indicated by the attack direction. For example, if an attack hits the right side armor. If the vehicle has no turret, a turret hit strikes the armor on the side attacked.

ΜΟΤΙ	/E SYSTE	M DAMAGE TAE	BLE		
2D6 Roll 2-5	EFFECT* No effect				
6–7 8–9		+1 modifier to all Driving Skil age; –1 Cruising MP, +2 modi s			
10–11	Heavy damage; +3 modifier to a	only half Cruising MP (round all Driving Skill Rolls			
12+	Major damage; Vehicle is immol	no movement for the rest of bile.	the game.		
Attack Direction I Hit from rear Hit from the sides	Modifier: +1 +2	Vehicle Type Modifiers: Tracked, Naval Wheeled Hovercraft, Hydrofoil WiGE	+0 +2 +3 +4		
*All movement and Driving Skill Roll penalties are cumulative. However, each Driving Skill Roll modifier can only be applied once. For example, if a roll of 6-7 is made for a vehicle, infilting a +1 modifier, that is the only time that particular +1 can be applied; a subsequent roll of 6-7 has no additional effect. This means the maximum Driving Skill Roll modifier that can be inflicted from the Motive System Damage Table is +6. If a units Cruising MP is reduced to 0, it cannot move for the rest of the game, but is not considered an immobile target. In addition, all motive system damage takes effect at the end of the phase in which the damage occurred. For example, if two units are attacking the same Combat Vehicle during the Weapon Attack Phase and the first unit inflicts motive system damage take is 4. If a units energy the -4 immobile target modifier would not apply for the second unit. However, the -4 modifier would take effect during the Physical Attack Phase. If a hover vehicle is rendered immobile while over a Depth 1 or deeper water hex, it sinks and is destroyed.					

GROUND COMBAT VEHICLE CRITICAL HITS TABLE

LOCATION HIT

2D6 Roll 2–5 N 6 7 Wea 8 9 10 Co 11 Wea 12

FRONT No Critical Hit Driver Hit Weapon Malfunction Stabilizer Sensors Commander Hit Weapon Destroyed Crew Killed

SIDE No Critical Hit Cargo/Infantry Hit Weapon Malfunction Crew Stunned Stabilizer Weapon Destroyed Engine Hit Fuel Tank* REAR No Critical Hit Weapon Malfunction Cargo/Infantry Hit Stabilizer Weapon Destroyed Engine Hit Ammunition ** Fuel Tank * TURRET No Critical Hit Stabilizer Turret Jam Weapon Malfunction Turret Locks Weapon Destroyed Ammunition ** Turret Blown Off

*If Combat Vehicle has ICE engine only. If Combat Vehicle has a fusion engine, treat this result as Engine Hit. **If Combat Vehicle carries no ammunition, treat this result as Weapon Destroyed.



A result or 12 on the Ground Combat Vehicles Hit Location label may inflict critical int against the turret, if the venicle has no turret, a 12 indicates the chance of a critical hit on the side corresponding to the attack direction. †The vehicle may suffer motive system damage even if its armor remains intact. Apply damage normally to the armor in that section, but the attacking player also rolls once on the Motive System Damage Table at right (see Combat, p. 192 in Total Warfare for more information). Apply damage at the end of the phase in which the damage takes effect. §Side hits strike the side as indicated by the attack direction. For example, if an attack hits the right side, all Side results strike the right side armor. If the vehicle has no turret, a turret hit strikes the armor on the side attacked.

	WiGE	+4
*All movement and Driving Skill Roll penalties i modifier can only be applied once. For example a +1 modifier; that is the only time that particu- has no additional effect. This means the maxir inflicted from the Motive System Damage Tabli to 0, it cannot move for the rest of the game, addition, all motive system damage takes effect occurred. For example, if two units are attack Weapon Attack Phase and the first unit inflicts immobile target modifier would not apply for the take effect during the Physical Attack Phase. I over a Depth 1 or deeper water hex, it sinks a	a, if a roll of 6-7 is made for a vehicle alar +1 can be applied; a subsequent num Driving Skill Roll modifier that ca is s-6. If a unit's Cruising MP is red but is not considered an immobile to tat at the end of the phase in which the ing the same Combat Vehicle during the second unit. However, the -4 mod f a hover vehicle is rendered immobilier and the size of the second unit. However, the -4 mod	a, inflicting coll of 6-7 an be uced arget. In the damage the 12, the -4 lifier would

GROUND COMBAT VEHICLE CRITICAL HITS TABLE

SIDE

Stabilizer

FRONT No Critical Hit No Critical Hit Driver Hit Cargo/Infantry Hit Weapon Malfunction Weapon Malfunction Stabilizer **Crew Stunned** Sensors Commander Hit Weapon Destroyed Weapon Destroyed Engine Hit Crew Killed Fuel Tank*

REAR No Critical Hit Weapon Malfunction Cargo/Infantry Hit Stabilizer Weapon Destroyed Engine Hit Ammunition ** Fuel Tank*

LOCATION HIT

TURRET No Critical Hit Stabilizer Turret, Jam Weapon Malfunction Turret Locks Weapon Destroyed Ammunition* Turret Blown Off

* If Combat Vehicle has ICE engine only. If Combat Vehicle has a fusion engine, treat this result as Engine Hit. ** If Combat Vehicle carries no ammunition, treat this result as Weapon Destroyed.





