



Archive Access



SERENITY BLUEPRINTS REFERENCE PACK

TEXT PLATE

Archive Access



REF PLATE

- METALLURGY
- Advanced Steel
- Aluminum Alloy
- Reinforced Aluminum
- Copper Plating
- Titanium Steel
- More...
- COMPOSITES
- Propulsion
- Hard Electronics
- Soft Electronics
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- Mechanical
- More...
- LEGACY DESIGNS
- Series 1
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- Series 3





THE OFFICIAL SERENITY BLUEPRINTS REFERENCE PACK

Detailing the design, layout, systems and history of Serenity and the Firefly-class transport. Issued and approved by Firefly Coach Works, Ltd.; Hera, and Mandel & Earls, Ltd.; Londinium; and Quantum Mechanix Inc., Earth That Was.

The Official Serenity Blueprints Reference Pack is the sequel to the sold-out limited-edition Serenity Blueprints set introduced in Spring 2007. An overwhelmingly positive response from the Browncoat community has prompted Quantum Mechanix and the blueprints' creators – Geoffrey Mandel and Tim Earls – to reissue the blueprints in a handy reference format.

But we didn't stop there. As long as we were going back to the drawing board, we asked, "What's missing? What else can we add to a reference pack we couldn't include in a large-format art print set?" The answer? More than 20 new pages of blueprints, specifications and recovered documents unearthed by our 'Verse historians comprising the most complete set of documentation on the development of the Firefly-class transport ever assembled.



The Official Serenity Blueprints Reference Pack contains everything you ever wanted to know (and a lot of stuff you didn't even know there was to know) about the Firefly-class transport Serenity and the rich history of the Firefly-class design. The Reference Pack contains 33 12" x 16" full-color pages documenting the design, systems and layout of Serenity, plus the Series 1, 2 and 4 Firefly-class designs (Serenity is a Series 3 Firefly).

In addition to 10 pages focused on Serenity herself, designed by Mr. Mandel (Serenity graphics designer) and Mr. Earls (illustrator for Firefly and set designer for Serenity), you also get:

- Full-page blueprints of Serenity's Flying Mule and Inara Serra's Shuttle.
- One page of all of Serenity's builders' plaques.
- One page of warning labels and other signage.
- Four pages with all the bridge computer screens.
- One page with all the door designs on the boat and what they signify.

more →





THE OFFICIAL SERENITY BLUEPRINTS REFERENCE PACK

But that's not all. Section 2 of the Reference Pack includes:

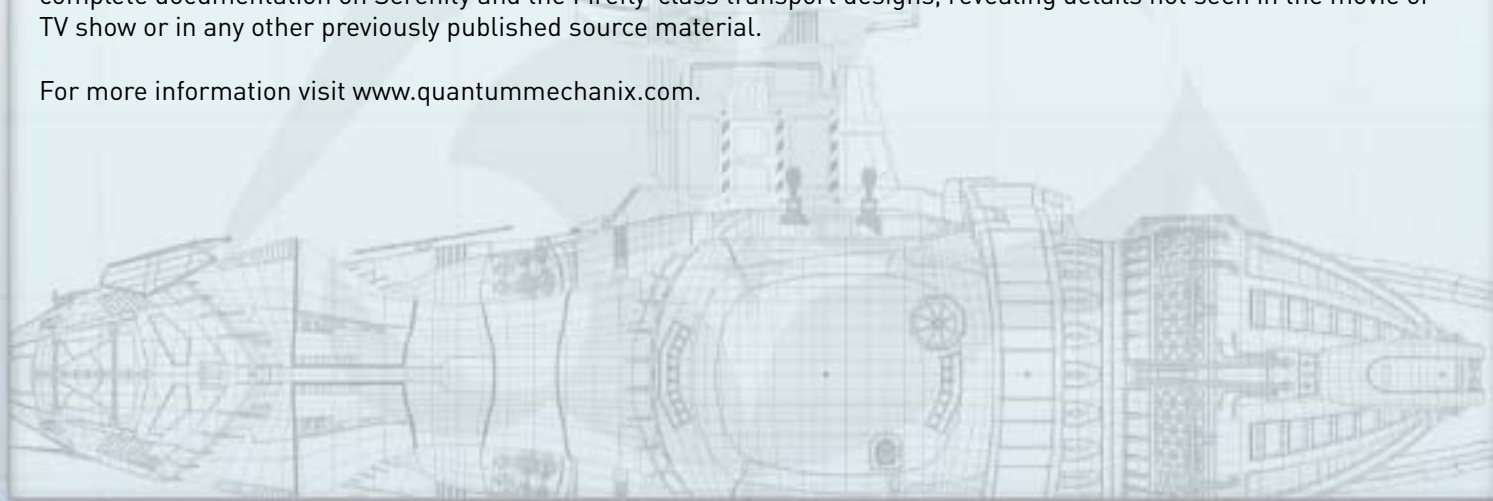
- A copy of the confidential Allied Spacecraft Corp. memo outlining the development and introduction plan for the Series 1 Firefly.
- A transcript from the popular do-it-yourself ship maintenance Cortex feed, *Boost Your Boat*.
- One page from the yard log of Austin's Salvage outlining the events that transpired around the arrival of the Independents Military Gunboat Cerberus.
- The top-secret engineering blue book entry on the amazing new Series 4 Firefly, code-named Kestral.

And if that weren't enough, the Reference Pack also includes never-before-seen full-page drawings of the Series 1, 2 and 4 Firefly designs, plus the Cerberus military variant (which is based on the Series 3 airframe) created by Mr. Earls. Mr. Earls was one of Serenity's original designers and knows Firefly design better than almost anyone drawing breath.

To top it off, the Reference Pack includes an introduction by the legendary author of Ender's Game (and unofficially the world's biggest Browncoat) Orson Scott Card, written in character.

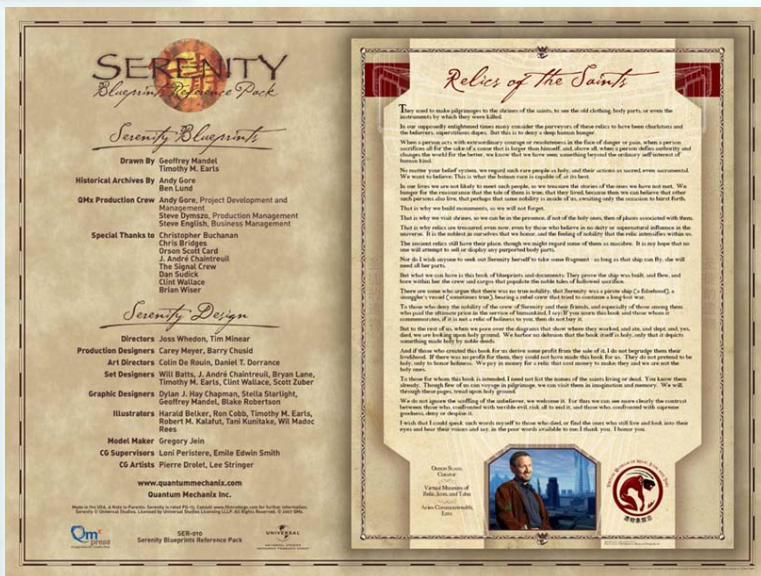
All for just \$29.95. The Official Serenity Blueprints Reference Pack is the definitive resource for any Browncoat interested in the details of Serenity, the shuttles, the mule or the history of the Firefly design. These blueprints are the culmination of many months of work verifying every aspect of Serenity, distilled from hundreds of set photos, architectural drawings, CGI files and volumes of background material used to produce Serenity the movie. They represent the only official and complete documentation on Serenity and the Firefly-class transport designs, revealing details not seen in the movie or TV show or in any other previously published source material.

For more information visit www.quantummechanix.com.

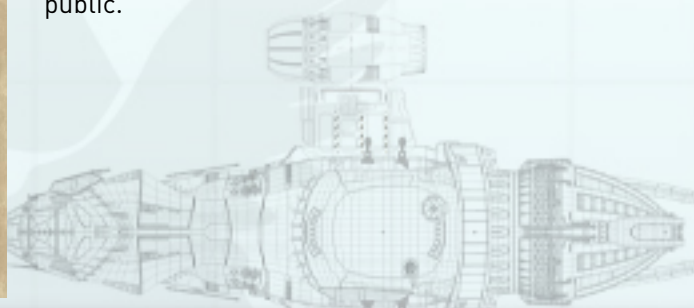




PAGE 1 Introduction by Orison Scard, Curator, Virtual Museum of Relic, Icon and Tabu

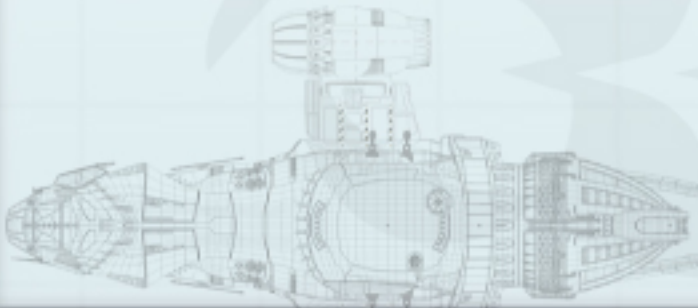


Well-known 'Verse anthropologist and recluse, Orison Scard, writes of the noble sacrifice of our Big Damn Heroes, and of the inherent holiness of Serenity herself as the artifact of their sacrifice in pursuit of a just and hopeless cause. Scard all but demands the canonization of Serenity's crew, a position that has lead to him being ostracized by the academic community but widely embraced by the public.



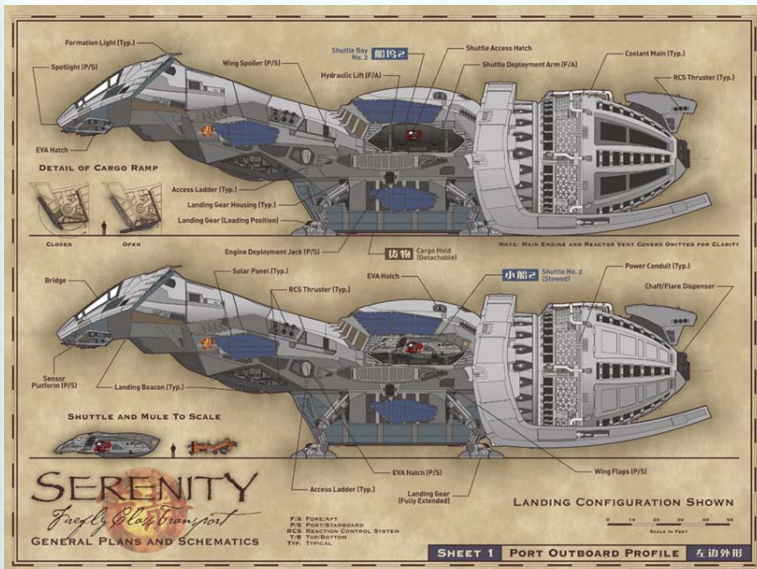
PAGE 2 Forged Serenity Dedication Plaque

The infamous Serenity dedication plaque that sold at auction for 50,000 credits. It was later proven to be a clever fake as Serenity never **had** a dedication plaque.



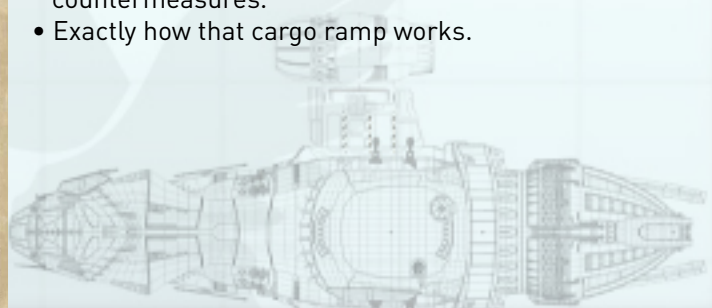


PAGE 3 Official Serenity Blueprints – Sheet One



What you'll learn:

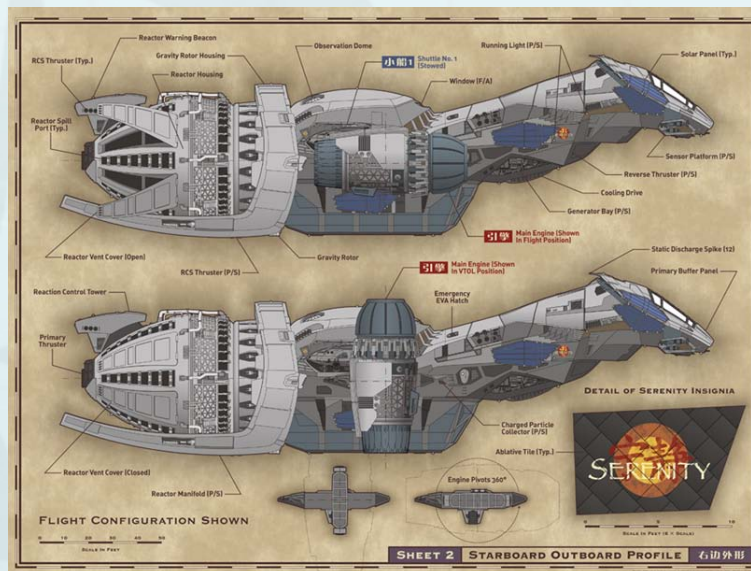
- How Serenity controls attitude in space. (We mean the ship, of course, not the crew.)
- That the main engine system has a “maintenance position” for servicing the engines or docking in tight spaces that won't accommodate Serenity's full wingspan.
- That the Firefly-class transport comes with missile countermeasures.
- Exactly how that cargo ramp works.



PAGE 4 Official Serenity Blueprints – Sheet Two

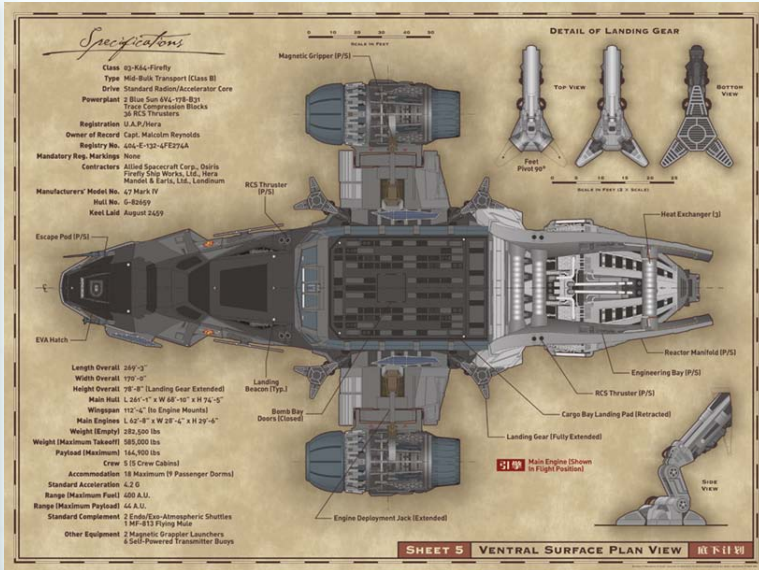
What you'll learn:

- How the main engine pivot works.
- Where Serenity's reverse thrusters are housed.
- That those spikes above the bridge actually serve a function.
- That the big yoke around the back of the engine is what compensates for inertia and keeps the crew from getting crushed in hard burn. It also helps attain “gravity buoyancy” in atmo. It doesn't, however, generate specific gravity inside the ship. That job is left to the flywheel grav rotors (grav dampeners) detailed on Sheets Six and Seven.
- Where that primary buffer panel is when it's actually attached to the ship.



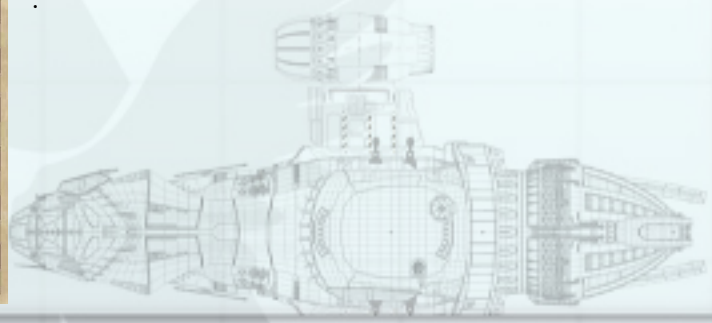


PAGE 7 Official Serenity Blueprints – Sheet Five



What you'll learn:

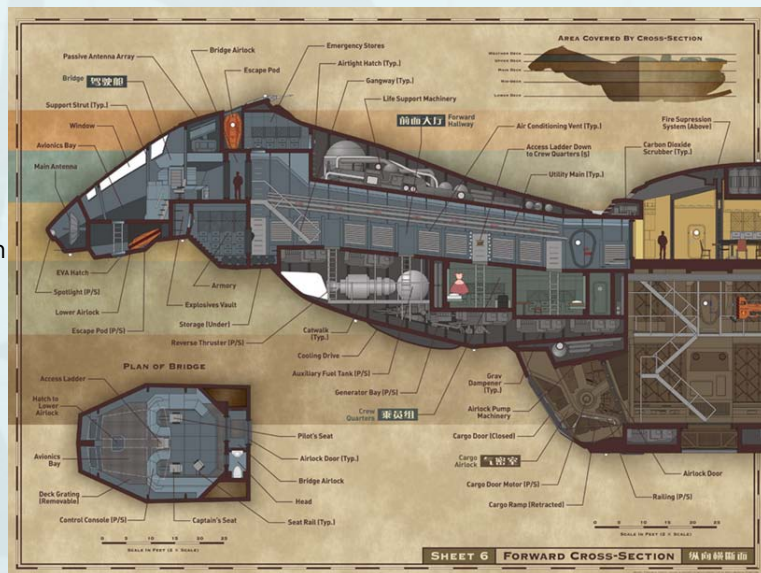
- Every gorrnam specification on the boat! (Admit it: You know you always wondered how many AUs Serenity could travel on a tank of gas, right?)
- Exactly how the landing gear feet work.
- That there's another escape pod. Didn't anyone ever tell Mal where these were?



PAGE 8 Official Serenity Blueprints – Sheet Six

What you'll learn:

- Where the ship's armory is located (besides Jayne's bunk).
- That the area in front of the pilot's station is the avionics bay and an escape hatch.
- That those vents in all the halls are air conditioning.
- That Serenity's artificial gravity is deck-specific and can be adjusted to compensate for angled decks.



- METALLURGY
- Vul. Handled Steel
- Al-Cast Alloy
- Reinforced Aluminium
- Copper Plating
- Titanium Steel
- More >>
- COMPONENTS
- Propulsion
- Hand Electronics
- Soft Electronics
- CV/Def Weapons
- Mechanical
- More >>
- LEGACY DESIGNS
- Swiss
- Series 4

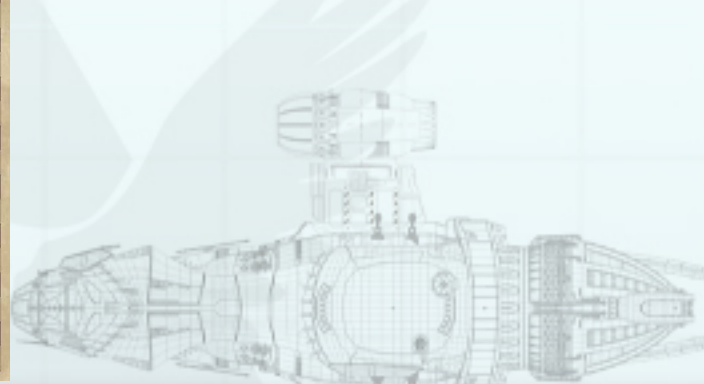


PAGE 13 Official Serenity Blueprints (Extended Set) – Sheet Eleven



What you'll learn:

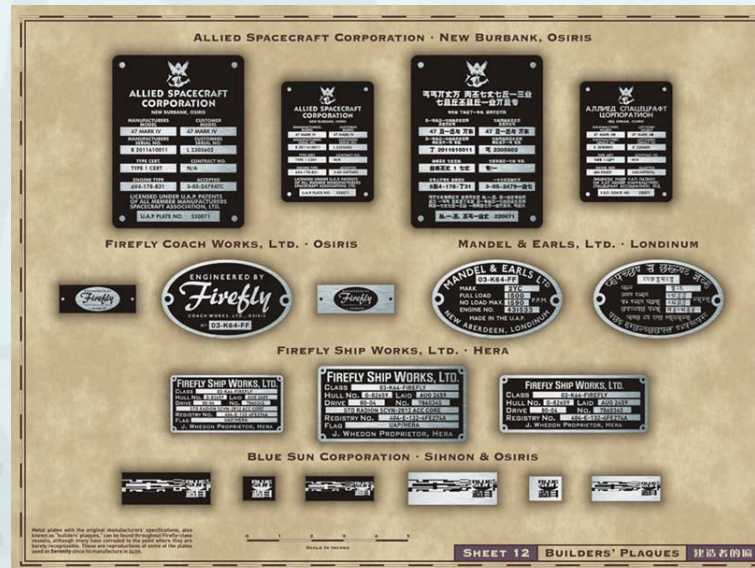
- The complete history of Serenity logos (proposed and utilized) since Malcolm Reynolds rechristened the ship.
- That "Serenity Valley" was actually misspelled in the original ship's logo from 2514.



PAGE 14 Official Serenity Blueprints (Extended Set) – Sheet Twelve

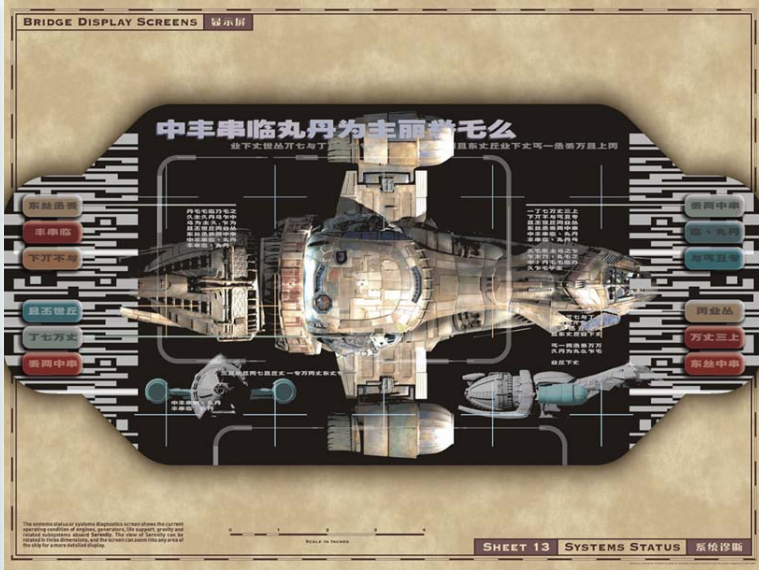
What you'll learn:

- The exact day, date and registry of when Serenity was first launched back in 2459.
- What all the builders' plaques said, according to the various companies that contributed to Serenity's construction.
- That spelling is apparently not one of the prerequisites for a career in engineering. (Check the misspelled Mandel & Earls, Ltd., of New Aberdeen "Londinum" builders' plaques. These appear here exactly as they did on Serenity herself.)
- That "Engineered by Firefly" would make an **awesome** t-shirt!



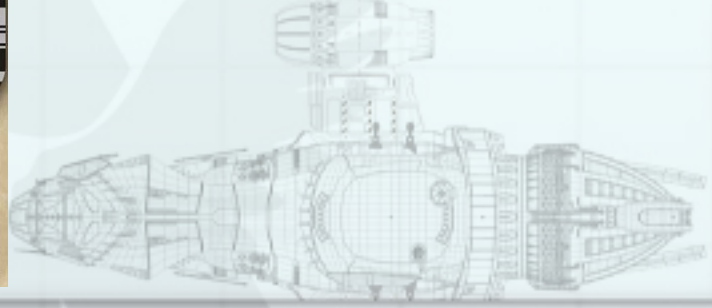


PAGE 15 Official Serenity Blueprints (Extended Set) – Sheet Thirteen



What you'll learn:

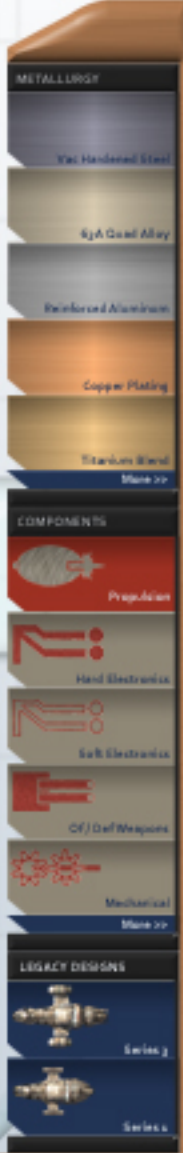
- How the pilot monitors the current condition of the ship on this Systems Status readout taken directly from the bridge of Serenity.
- That you can zoom into any specific section of the ship or any particular subsystem.
- That fluency in both Chinese and English seems to be a critical skill for 'Verse pilots.



PAGE 16 Official Serenity Blueprints (Extended Set) – Sheet Fourteen

What you'll learn:

- What the proximity scanner on the bridge of Serenity looks like.
- That the range of Serenity's scanner is a mere 150,000 miles in three-dimensional space.
- What some of the most common IFF (Identification Friend or Foe) icons are, including what a Reaver ship might look like if it ever appears on your scan (probably the last reading you'll ever take!).



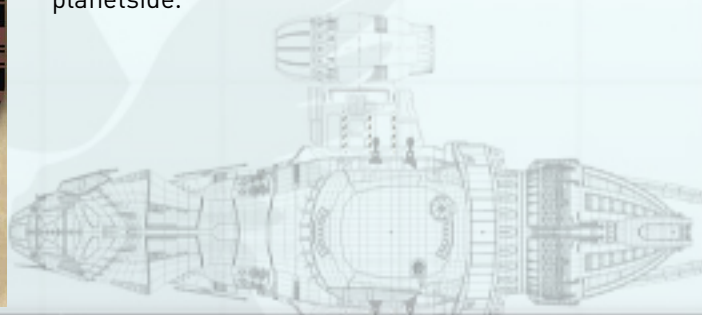


PAGE 17 Official Serenity Blueprints (Extended Set) – Sheet Fifteen



What you'll learn:

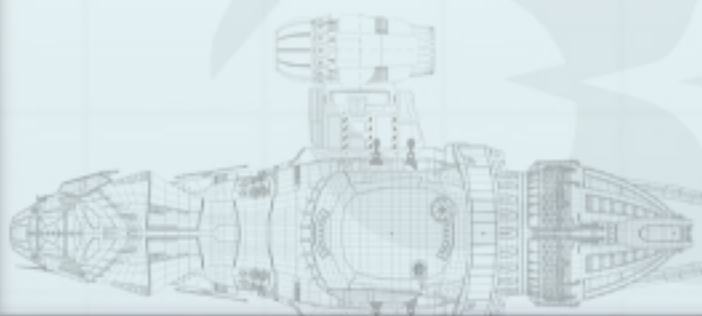
- What the planetary scan of Miranda looked like.
- That the Alliance-controlled planetary database has some interesting omissions.
- That a ship like Serenity can use a combination of ground radar, spectroscopic, electromagnetic and thermal readings to determine what's really going on planetside.



PAGE 18 Official Serenity Blueprints (Extended Set) – Sheet Sixteen

What you'll learn:

- What the celestial navigation screen on Serenity's bridge looked like.
- How the 'Verse's chaotic and complex orbital mechanics must be carefully considered whenever plotting a course from one planet to another.
- What the 'Verse (at least one chunk) looks like.



METALLURGY
Vul Hardened Steel
8/4 Cast Alloy
Reinforced Aluminium
Copper Plating
Titanium Steel
More >>
COMPONENTS
Propulsion
Hard Electronics
Soft Electronics
CF/Del Weapons
Mechanical
More >>
LEGACY DESIGNS
Series 3
Series 4
Series 5



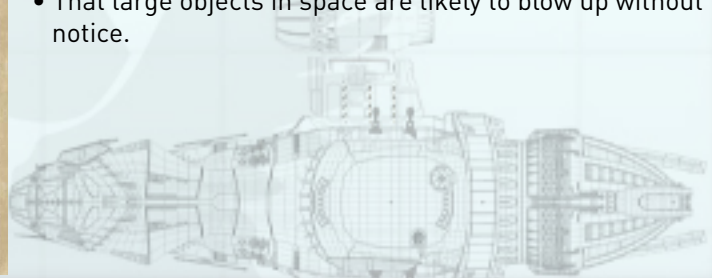


PAGE 19 Official Serenity Blueprints (Extended Set) – Sheet Seventeen



What you'll learn:

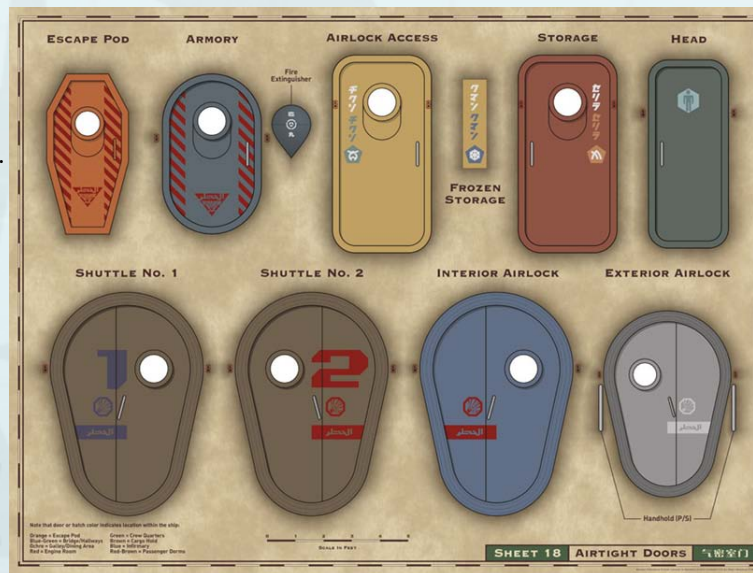
- That Alliance shipping regulations require certain warning labels be posted on all hazardous equipment and storage on a ship.
- That currency of labels must be confirmed every six months, although some local authorities can be convinced to waive this requirement with a modest application of, um, currency.
- That large objects in space are likely to blow up without notice.



PAGE 20 Official Serenity Blueprints (Extended Set) – Sheet Eighteen

What you'll learn:

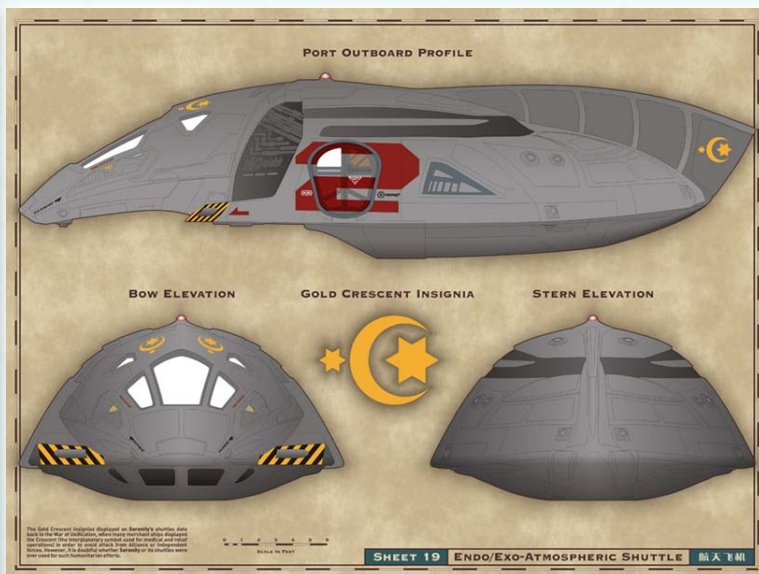
- That hatch color and shape denote specific function of that door or what's behind it.
- That blue-green is the color of the bridge and hallways.
- That brown denotes a cargo area.
- That you probably won't see a lot of orange on Serenity.
- That grey with red stripes is Jayne's favoritest door.



- METALLURGY
 - Van Hardened Steel
 - Al-Gal Alloy
 - Reinforced Aluminium
 - Copper Plating
 - Titanium Steel
 - More >>
- COMPONENTS
 - Propulsion
 - Hard Electronics
 - Soft Electronics
 - CF/Del Weapons
 - Mechanical
 - More >>
- LEGACY DESIGNS
 - Series J
 - Series L

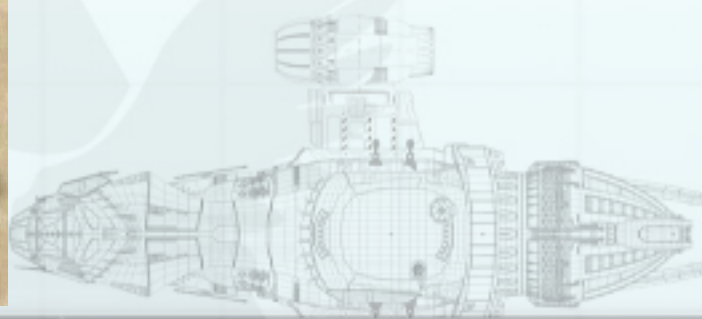


PAGE 21 Official Serenity Blueprints (Extended Set) – Sheet Nineteen



What you'll learn:

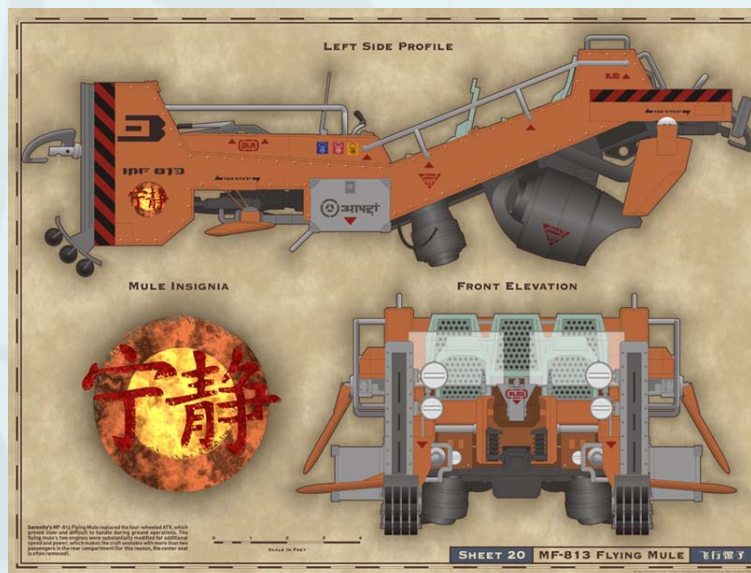
- The exact size and shape (and markings) of Inara's shuttle.
- That Serenity's shuttles both have the golden crescent insignia on them, an interplanetary symbol for medical and relief ships.
- That it's doubtful those symbols were placed on the shuttles for any legitimate reasons.



PAGE 22 Official Serenity Blueprints (Extended Set) – Sheet Twenty

What you'll learn:

- The exact dimensions and configuration of Serenity's MF-813 Flying Mule.
- That the mule's engines were substantially modified (most likely by Kaylee) to boost the mule's speed.
- That those modifications also made the mule unstable with more than two passengers in the rear compartment.



METALLURGY
Val Hardened Steel
8x4 Cast Alloy
Reinforced Aluminium
Copper Plating
Titanium Steel
More >>
COMPONENTS
Propulsion
Hard Electronics
Soft Electronics
CF/Def Weapons
Mechanical
More >>
LEGACY DESIGNS
Series 3
Series 4
Series 5



PAGE 31 Firefly Historical Archives – ASC Engineering Bluebook on the Series 4 Firefly.

ALLIED SPACECRAFT CORPORATION SECURE ENGINEERING TABLE | Lead Designer: T. Earl | ASC Emp# 24567-8231

Designer's Notes | Last Update: 22.05.2022

The Series 4 Firefly-Cass Transport will be a streamlined evolution of the stock Firefly design that is intended to be both more advanced and more comfortable than its predecessor in a cost-effective manner. While the Series 4 will retain all the tenets of all Firefly and its kind, the design philosophy ASC has established in the previous three generations, it'll be a good deal bigger, with two cargo modules instead of one, stations for passengers in addition to berths, and a proper level vehicle bay and cargo elevator. We've added a standard entertainment area with a large screen and a small purpose entertainment table and a children's table. There'll even be a small hydroponics garden right over the Graviton Accelerator for growing fresh produce.

The Series 4 will accommodate double the crew and passengers, and also double the payload. Cargo bays will be completely "big and oily," and, as required by Alliance DMR, it will be possible to pick up and drop off a cargo module without ever entering the bay. This should allow for secure transport of materials without fear of air interdiction.

All design goals look to be achievable by deadline: more comfort, greater capacity all around, higher acceleration and longer range.

Project Specifications

Call Name	Firefly Series 4
Release Date	22.05.2022
Type	Mid-Box Transport (Class A)
Driver	Enhanced Graviton Accelerator Core
Powerplant	4 Blue Sun CVT Spin-Lock Agri-Pulsar Reactor Components
Model No.	AS-103
Length Overall	10' 0"
Width Overall	4' 0"
Height Overall	11' 0"
Max. Mass	12,000 kg (26,455 lb)
Weight	4,500 kg (9,900 lb)
Max. Speed	120 km/h (75 mph)
Weight (Empty)	2,500 kg (5,500 lb)
Weight (Max)	10,000 kg (22,000 lb)
Power	100 kW (134 hp)
Accommodation	20 (10 Crew Seats, 10 Berths)
Standard Acceleration	1.5 G
Range (Max. Fuel)	200 km
Range (Max. Payload)	100 km
Optional Equipment	4 External Atmospheric Shields and Emergency Life Raft, 4 MP 3000 Programmable Resonance Coils, 4 Magnetic Shielding Spheres, 4 Self-Powered Transmitter Buoys

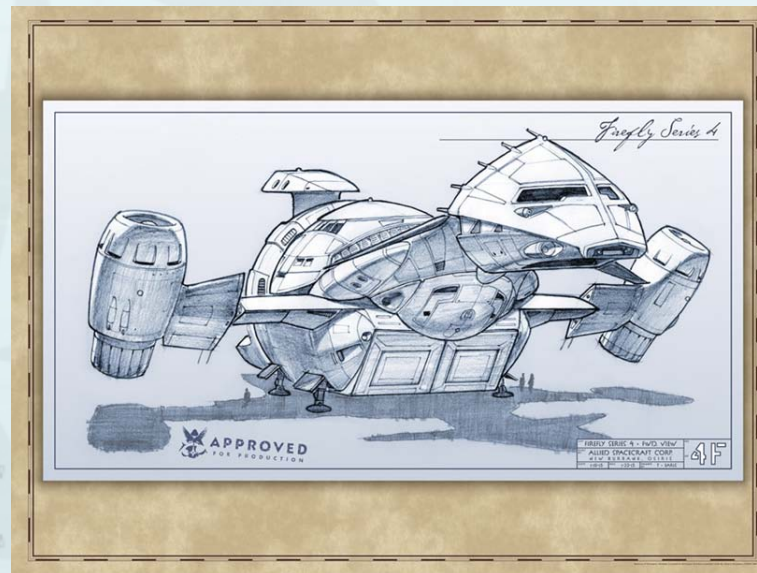
*Full specifications are available in locked format.

Engineering bluebook for the redesigned Series 4 Firefly. The interface is opened to the page with the engineer's notes on the design and its preliminary specifications.



PAGE 32 Firefly Historical Archives – Firefly Series 4 Concept Drawing

Approved concept drawing for the Series 4 Firefly. Bigger, faster, with more cargo and passenger space, the Series 4 has been a hit with merchant captains plying the increasingly lucrative Core to Border routes. For those working the Rim, however, the Series 3 is still the preferred design for its economy of operation.



- METALLURGY
 - Vul. Hardened Steel
 - 8/4 Cast Alloy
 - Reinforced Aluminum
 - Copper Plating
 - Titanium Steel
 - More >>
- COMPONENTS
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 - Hard Electronics
 - Soft Electronics
 - CV/Def Weapons
 - Mechanical
 - More >>
- LEGACY DESIGNS
 - Series 3
 - Series 4



Back Cover Firefly Historical Archives – ASC Cortex BYO Firefly site



Cortex site that allowed potential customers to customize their Firefly and order it. All the options – systems, shuttles, cargo bay – could be added or taken off the basic airframe, giving Firefly buyers unheralded control over the specifications of their boat.

For more information of the Serenity Blueprint Reference Pack, please visit www.quantummechanix.com. To get the latest news about QMx and our products, please subscribe to the QMx Insider at <http://insider.quantummechanix.com>.

