

**PROTOTYPE NX-1833**  
 EXTERNAL VIEWS SHEET 1/16  
 SPECIFICATIONS  
 DESIGN HISTORY

**DESIGN TEAM:**  
David Schmidt Designer / Layout Designer / Technical Editor  
Tim Palquit Researcher / Layout Designer / Technical Editor



<b>DETAILS</b>		<b>CREW &amp; AUXILIARY SYSTEMS</b>	
Visual Class	Miranda	Complement	40 others
Identification	NO-1353		276 Edited
Key	Heavy Frigate		72 Flight & Maintenance Crew
		Transports	4 personnel
			2.6 personnel Emergency
			1.6 personnel Inter-ship
			2 Cargo
<b>SPACEFRAME</b>		<b>INFORMATION SYSTEMS</b>	
Overall Length	240 meters	Computer Core	
Overall Beam	141.7 meters		
Overall Draft	58 meters		
Decks	10 + 2		
Displacement	8.50 X 10 <sup>6</sup> tons		
<b>WEAP SYSTEMS</b>		<b>Electronic</b>	
Power	Master / Antimatter Reactor (2.7 X 10 <sup>10</sup> watts)	Translator FTL Microprocessor	
Striking Speed	46.8 0.02 sec.		
Track Speed	46.8 0.01 sec.		
Point Speed	46.8 0.01 sec.		
	(Available for 12 hours)		
	(Available for 1 hour)		

**Creating a Navy Frigate**  
 Frigates are always made for specialized designs in a precursor or "niche" in the fleet. In the case of the *Freedom*, the USN needed a ship designed to search for a third class of frigate - whose identity would include the capability to carry two squadrons of attack boats in addition to double the complement of missiles and other enhanced craft when compared to such capital ships as a *Conestoga*-class Navy Destroyer. In 2273, Strategy Design was tasked to develop such a design. As the *Johnston Island* "First Edge" (TSO) (Technology-Original Standard) version *Knox*-class frigates completed their current 5-year deployment, 65% were assigned to the San Francisco District Navy for final testing and the corresponding *Knox*-class update program TSU "Seahawk" 1 was initiated. The *Freedom* was assigned to the *Seahawk* 35 update program. The *Freedom* was the first frigate to be converted into the *Freedom* update program TSU "Seahawk" 1 or TSP Navy frigate. The *Freedom* class Navy frigate being essentially a *Knox*-class frigate with the bulk extended to 24 meters.

REBUILD 1.0 BROADBURY	
Item	Precedence
• Manufacture initial drydock	
• Transfer and transport activities	
• Electrical connection tested	
• Power restored to electrical feed	
• Drydock ventilation	
• Warm core stationing	
• Fuelers received solid	
• Fuelers received liquid	
• Cargo logs in place	
• Staffs deployed	
• Communications and test linkups and checks	
• Cryogenic gas supplies	
• Insulation	
• Haze	
• Fluid separation and vent material	
• Personnel and effects of loaded	
• Function of loaded	
• Live and pre-prioritised activities	



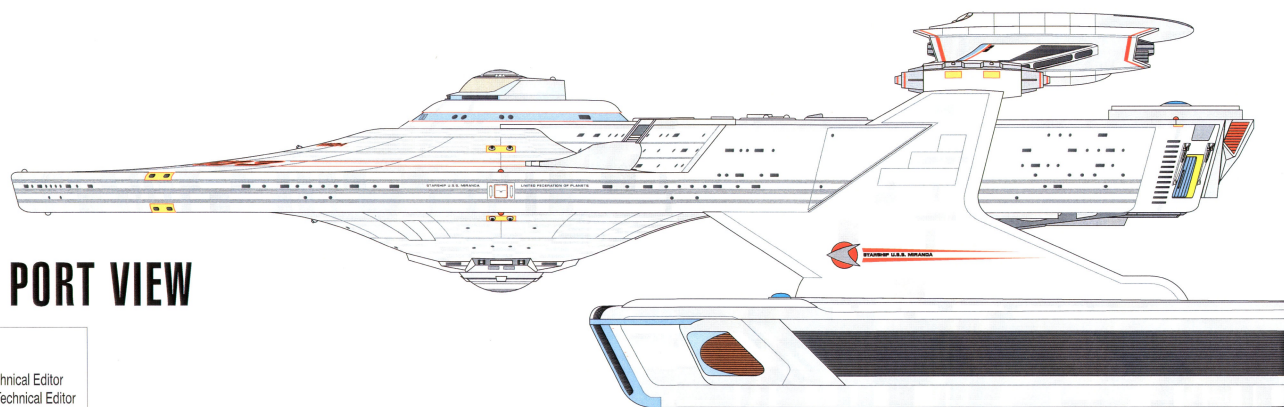
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**SUBSEQUENT SCHEDULED REFITTINGS**  
By 2250 most of the Miranda-class Heavy Cruisers had undergone 5 subsequent refittings:

- Refit 1.1 - Fast-chekinners - Standard Refitting
- Refit 1.2 - Replacement of Bridge Module
- Refit 1.3 - Installation of Landing Bay Doors/Turbine
- Refit 1.4 - Upgrading of Sockery
- Refit 1.5 - Upgrading of Sensor Suite

# MIRANDA

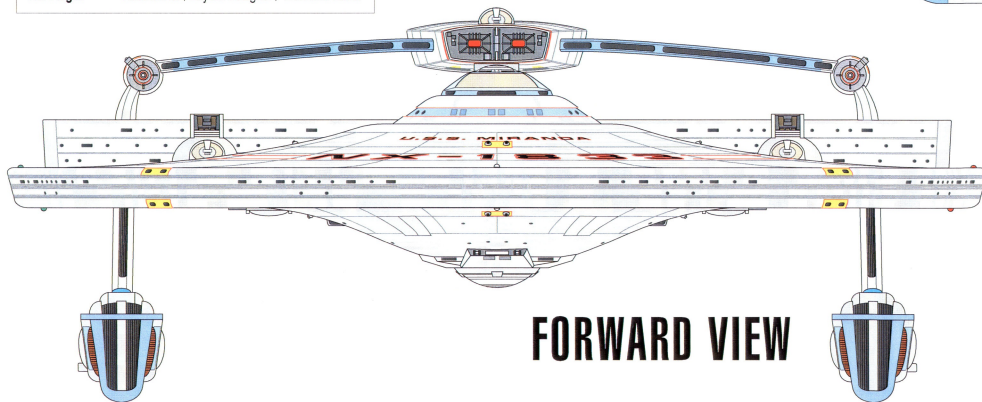
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EXTERNAL VIEWS SHEET 1/18  
SPECIFICATIONS  
DESIGN HISTORY



PORT VIEW

## DESIGN TEAM:

David Schmidt Designer / Layout Designer / Technical Editor  
Tim Palgut Researcher / Layout Designer / Technical Editor



FORWARD VIEW



## SPECIFICATIONS

### PARTICULARS

Vessel Class Miranda  
Identification NX-1833  
Type Heavy Frigate

### SPACEFRAME

Overall Length 240 meters  
Overall Beam 141.7 meters  
Overall Draft 58 meters  
Decks 10 + 3  
Displacement  $6.56 \times 10^4$  tons

### WARP SYSTEMS

Power Matter / Antimatter Reactor (2.7 X  $10^9$  terawatt)  
Cruising Speed wf 6.0 382.30c  
Flank Speed wf 6.8 825.07c (Sustainable for 12 hours)  
Burst Speed wf 7.8 941.55c (Sustainable for 1 hour)

### CREW & AUXILIARY SYSTEMS

Complement 48 Officers  
278 Enlisted  
72 Flight & Maintenance Crew  
Transporters 4 8-personnel  
2 28-personnel Emergency  
1 8-personnel Inter-ship  
2 Cargo

### INFORMATION SYSTEMS

Computer Core 1  
Duetronic  
Transistor FTL Microprocessors



# DESIGN HISTORY

**Creating a Heavy Frigate**  
Starfleet is always searching for specialized designs to fill perceived - or anticipated - 'niches' in its FORD (Fleet Order of Battle) Table. Various concepts have been explored in search of a practical Heavy Frigate - whose definition would include the capability to carry four squadrons of Attack Bees in addition to double the complement of shuttles and other embarked craft when compared to such capital ships as a Constitution-class Heavy Cruiser. In 2273, Strategic Design was tasked to develop such a design. As the Jefferies-Moravick 'First Flight' or TOS (Technology-Original-Standard) version Knox-class Frigates completed their current 5-year deployments, 65% were assigned to the San Francisco Orbital Yards for Rebuilding into the corresponding Knox-class updated Probert-Scott 'Rebuild-1' or TMP (Technology Modified Program) version. The remaining 35% were assigned to the Tokyo Orbital Yards for Conversion into Miranda-class updated Probert-Scott 'Rebuild-1' or TMP Heavy Frigates - the Miranda-class Heavy Frigate being essentially a Knox-class Frigate with the hull extended aft 34 meters.

The original Knox-class had its forward photon torpedo launcher located in the Superstructure, on Deck 3. When designing the Miranda-class, the designers added a unique 'rathar'-mounted Weapons Module, which also holds the Mega-Phaser cannon common to Frigates of the TMP conversion.

The main task of a Frigate is to provide a launch/support platform for shuttles and fighters in the role of Fleet Support. Unlike carriers, Frigates are also capable of independent operation in a scientific and military capacity. The Knox-class Frigate has two side-by-side bays, each featuring a large, affecting space door. The port bay is dedicated to the Cargo Bay & Workbee Parking/Launch Bay. The starboard bay is the Landing Bay and Parking Bay, and carries a squadron of Killer Bee attack craft, as well as shuttles for the onboard Marine Attack Force and scientific research landing parties.

## REBUILD 1.0 BREAKDOWN

### Phase I Preparation

- Maneuvered into orbital drydock
- Tractor web moorings activated
- Unliftable connections linked
- Power shunted to unlifted lead
- Decommissioning
- Wary core shutdown
- Fusion reactors safed
- Batteries purged
- Cargo bays off-loaded
- Shuttles offloaded
- Consumables purged from tankage and shunts
  - Cryogenic gas supplies
  - Deuterium
  - Water
  - Food synthesizer raw material
- Personnel and effects off-loaded
- Furniture off-loaded
- Life-support and grav-plate shutdown

# REBUILD HISTORY

### Phase II Stripping A:

- Bridge module unlocked and removed from superstructure
- Superstructure removed from primary hull
- Wary nacelles and support pylons unlocked and removed
- Primary hull - interconnecting hull interlocks disconnected
- Secondary hull tractor aft (8-axis displacement -12.9 meters)
- Interconnecting hull unlocked and removed from secondary hull
- Main sensor/deflector parabolic dish removed
- Hull plating unwelded, unlocked and removed to orbital smelters

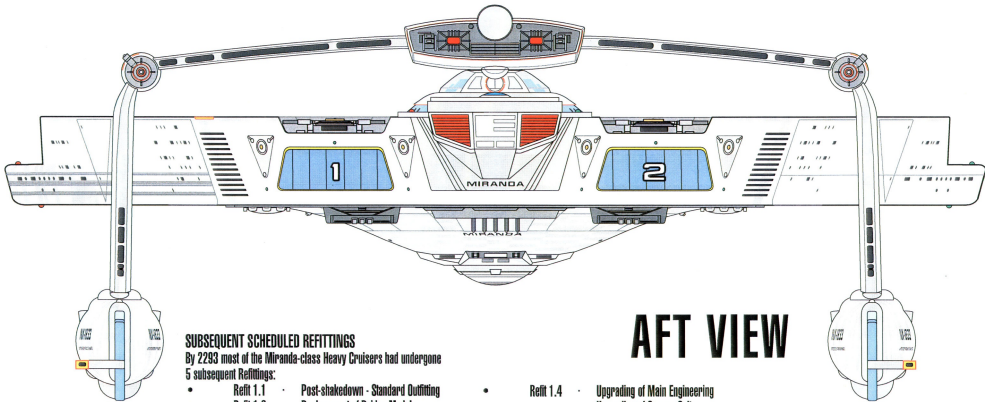
## IMPULSE SYSTEMS

Power Primary - lead from wary core (1.0 X 10<sup>11</sup> megawatt)  
Secondary - 4 deuterium fusion reactor (5.2 X 10<sup>14</sup> megawatt)  
Vector Nozzle 2 Fore - Type 3 / 2 Aft - Type 2  
Cruising Speed 0.31 c  
Flank Speed 0.83 c

## TACTICAL SYSTEMS

Phaser 12 - Type VIII barrel  
Mega-Phaser 2 Fore - Type 5 / 2 Aft - Type 5  
Torpedo Tube 2 Fore - Type 2 / 2 Aft - Type 2  
Magazine 300 Mark V Photon Torpedoes  
20 Probes  
Grid 5 Deflector Shield Generator (rated 1.15 X 10<sup>9</sup> mw - standby / 2.89 X 10<sup>9</sup> mw - alert / 4.73 X 10<sup>9</sup> mw - 0.0017 Sec.)  
6 Structural Integrity Field Generator (rated 1.15 X 10<sup>9</sup> mw)  
Main - 1 Aft (8 megawatt - 225 millicachrons)  
4 Shuttley Doors  
2 Shuttley (internal - ceiling mounted)

## Tractor Beam



## SUBSEQUENT SCHEDULED REFITTINGS

By 2293 most of the Miranda-class Heavy Cruisers had undergone

5 subsequent Refittings:

- Refit 1.1 - Post-shutdown - Standard Outfitting
- Refit 1.2 - Replacement of Bridge Module
- Refit 1.3 - Installation of Landing Bay Doors/Turbolift
- Refit 1.4 - Upgrading of Main Engineering
- Refit 1.5 - Upgrading of Sensor Suite
- Refit 1.6 - Upgrading of Computer Core
- Refit 1.7 - Upgrading of Structural Integrity Field Generators
- Refit 1.8 - Replacement of Bridge Module

# AFT VIEW

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## REBUILD HISTORY

Phase II	Replacement
• Frame extensions latched to frame members and gusset welded	
• New frame members latched to enhanced frame members and gusset welded	
• New heavy nacelles and support pylons latched and gusset welded	
• New superstructure latched to primary hull frames and gusset welded	
• New bridge module latched in primary hull superstructure and gusset welded	
• Placement of new heavy core (indicator processor) contained in assembly	
• New deck sections latched and welded to frame members	
• Ventral access walk into assembly unlatched and removed	
• New main computer core inserted	
• New ventral access walk door assembly latched and gusset welded	

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# MIRANDA

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EXTERNAL VIEWS SHEET 3/16

REBUILD HISTORY

INTERNAL SYSTEMS

## REBUILD HISTORY

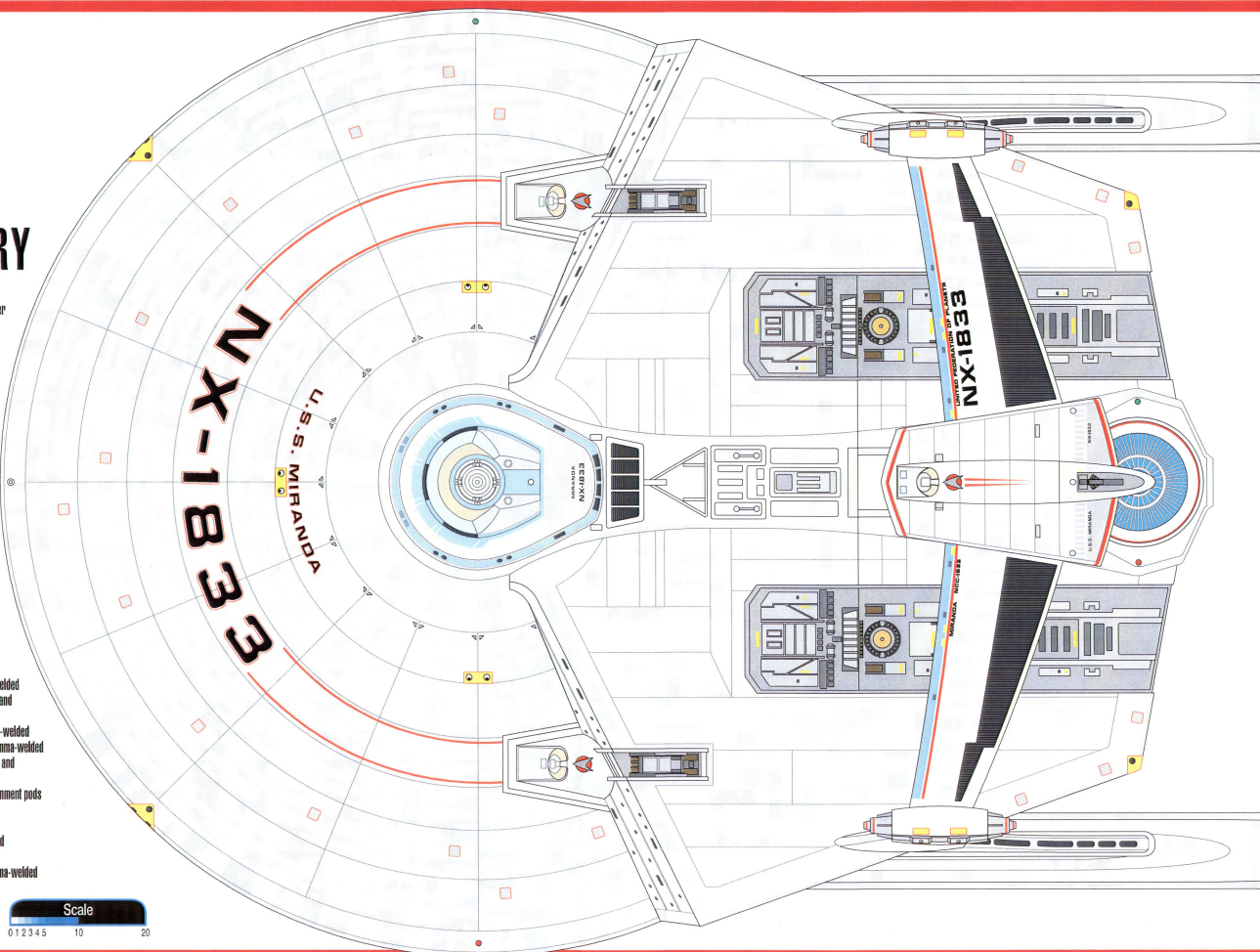
### Phase III Stripping B

- Various systems removed for later replacement with newer equipment
  - Phaser turret
  - Force-field/deflector screen generators
  - Food, organic and inorganic synthesizers
  - Control consoles
  - Furniture
- Various systems rebuilt/repainted/rebuilt in place
  - Structural integrity generators
  - Life support facilities
  - Secondary computer core
  - Optical data network (ODN)
  - Electro-plasma system conduits (EPS)
- Various physical structures modified
  - Bulkheads
  - Decking
  - Corridors
- Warp core/antimatter processor/containment pods assembly removed
- Ventral sensor suite dome assembly unlocked and removed
- Main computer core removed

### Phase IV Replacement

- Frame extensions locked to frame members and gamma-welded
- New frame members locked to enhanced frame members and gamma-welded
- New warp nacelles and support pylons locked and gamma-welded
- New superstructure locked to primary hull frames and gamma-welded
- New bridge module locked to primary hull superstructure and gamma-welded
- Placement of new warp core/antimatter processor/containment pods assembly
- New deck sections locked and welded to frame members
- Ventral sensor suite dome assembly unlocked and removed
- New main computer core inserted
- New ventral sensor suite dome assembly locked and gamma-welded

## DORSAL VIEW





# INTERNAL SYSTEMS

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## Section 1.0 Spacecraft Spaceframe & Hull - Unity Hull

The most notable feature of the Frigate series is the Unity Hull. Whereas a Constitution-class Primary Hull is comprised of 18 wedge-shaped segments, the Knox-class Unity Hull concept utilizes 10 of these wedge segments (forward-starboard-port), plus an aft raised segment joining them just aft of the vessel's centerline, and extending to the stern. This raised segment, which bevels up three decks immediately aft of the superstructure, holds the Warp Core, Impulse Drive, Cargo Bay and Shuttle-Landing Bays. The most obvious of the Rebuild 1.0 modifications is the larger spaceframe. After hull plate removal (and subsequent frame inspection for buckling and shearing), all frame members of the Knox-class Unity Hull were augmented with extensions. While the ten forward-starboard-port extensions are moderate, the aft raised segment for the Miranda-class variant increases the vessel's length by 34 meters. Original hull plates were recycled via orbital smelter, and new hull plates matching the Rebuild 1.0 planeform were produced.

## Section 1.1 Structural Integrity Field

Type SIF2300A during the Rebuild 1.4 of the Miranda-class. Due to the enlarged spaceframe keel spar frame members containing an SIF Waveguide Core was installed.

## Section 1.2 Inertial Damping Field & Synthetic Gravity Generators

Except for new installations under new deck areas of the Miranda-class Primary Hull, the original IDf/SG generator network was left untouched.

## Section 1.3 Security & Containment Force Field Generators

Except for new installations (such as the new Engineering and Security complexes) of the Miranda-class Unity Hull, the original S/CFF generator network was left untouched.

## Section 1.4 Main Deflector

A Type MD5689T split-range sensor projects a Type MD3388B subsurface planar-array navigational deflector emitter system amalgamated into the long and short range sensor systems.

## Section 1.51 Ordnance: Phasers

The Type VII Phaser Turret was replaced with the Type VIII on the Miranda-class Primary Hull. Following improvements to shield dynamics and power, Starfleet design engineers chose to discontinue the practice of retracting the phaser cannon emitter heads within the hull when offline. Besides being mechanically simpler, the new turrets improved power through-put to 145% by tapping the warp core directly via dedicated EPS conduits.

## Section 1.52 Ordnance: Mega-Phaser Cannon

The Miranda-class is equipped with two Type IX mega-phaser cannon, each mounted on a pylon extending above the vessel's Unity Hull dorsal surface. These cannon feature both lateral-firing "broadside" Type VIII turrets, plus fore- and aft-firing cannon emitters. The latter are immensely augmented phaser emitters, capable of 5 second bursts with intensities 625% that of the Type VIII. Due to their enormous power requirements, the fore- and aft-firing cannon emitters cannot be fired while the vessel is at warp.

## Section 1.53 Ordnance: Photon Torpedo Launch/Magazine Pod

Arming between the two Mega-Phaser Cannons is a "Roll-Bar" Pylon. Mounted at the dorsal centerline is the Photon Torpedo Launch/Magazine Pod. This is a fully self-contained module, holding a single Launch Bay and four Launch Tubes (2 forward, 2

aft), plus magazine storage. The Miranda-class utilizes an adapted version of the P207A standard Rebuild Photon Torpedo Launch Bay System. The design features a single Launch Bay with a single centerline track running forward and aft from the staging area to the loading hatches. After entering the fore or aft loading subsystem, the torpedo is conveyed laterally port or starboard to the twin torpedo tubes - and then through the linear accelerator. Flexible in utility, the large Launch Bay can be used as a torpedo maintenance room as well, by placing removable gratings over the loading tracks. The magazines are positioned on the deck below, and torpedoes are raised to the staging area via telescoping elevator.

This innovative pod design has proven so efficient that slightly-modified versions have been created for Destroyer and Corvette variants. Crew complement traffic to and from the pod is normally via an internal transporter target pad, hard-wire connected to the vessel's 6-personnel transporter network. However, access can also be gained via the Roll-Bar's Jelleries Tubes.

## Section 1.54 Ordnance: Force-Field / Deflector Screen Generators

All FF/DS generators were removed and replaced with the Type FF/DS7764W, which features higher harmonic range, greater intensity, and much faster charging and response cycling time. Additionally, the force-field waveguide grid was augmented to reflect the larger spaceframe.

## Section 2.0 Computer Systems

The Type MCC8745MT Main Computer Core integral unit replaces the original, externally-indistinguishable unit in the Knox-class Unity Hull. Within however, all 57,600 duotronic chips have been replaced with the new multitronic chips, doubling processing speed and quadrupling capacity.

## Section 2.1 Information Gathering Systems

The DMS8445 Dorsal Navigational Sensor Suite accompanies the new BM8984C Bridge Module in the Miranda-class Primary Hull. The VNS833347Q Ventral Navigational/Science Sensor Suite on the underside of the Primary Hull has 4 lateral bays containing directional science sensors. Two LRS2224S Long Range Sensor Suites are located at the dorsal level of the raised segment. A third LRS2224S Suite is located on the dorsal surface of the Photon Torpedo Launch/Magazine Pod

## Section 3.01 Crew Facilities - Quarters

Enlisted quarters remain virtually untouched from the TOS (Technology-Original-Standard) version. Officer quarters have been simplified, with the offices being removed from the quarters in favour of true offices located elsewhere.

## Section 3.02 Crew Facilities - Recreation

The Recreation, Gymnasium, and Lounges have been expanded with the enlargement of the Unity Hull radius.

## Section 3.03 Crew Facilities - Dining

Facilities have been largely left untouched, although systems have been overhauled, and menu programs greatly enhanced.

## Section 3.04 Crew Facilities - Arboretum

The original enclosed biobabits and display windows have been replaced with a park-like setting with winding paths, a waterfall/stream, and false sky.

## Section 3.05 Crew Facilities - Laundry

Facilities have been largely left untouched, although systems have been overhauled.

## Section 3.1 Science Facilities

All lab equipment and consoles have been replaced with new equipment.



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SYMBOL CHART

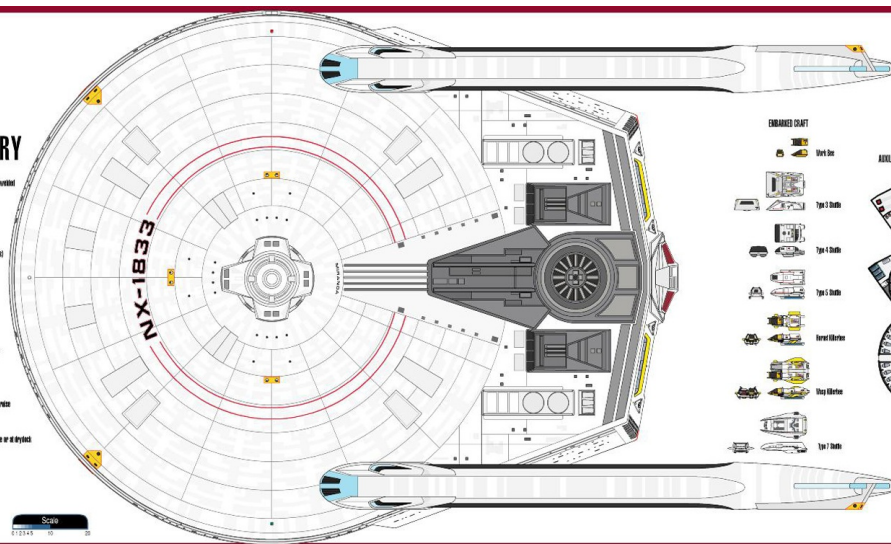
EXTERNAL VIEWS SHEET 5/18  
SYMBOL CHART

#### Phase V: Fielding

- Phase V: Fixation**
- Nitryl being pulled into the tissue members and passive oxidation
  - Chemicals related to biology and death
    - Cytogenic gas supplies (Oxygen, Nitrogen, Hydrogen, Indium)
    - Antibiotics
    - Water
    - Tissue
    - Acid synthesis/ raw material
  - Red pigment (precursor test: Nitrogen at 5 atmospheres)
  - Life support and gas-pulling strategy
    - Internal atmosphere circulation
  - Bacteriophage
  - Fertilizer related
  - Personnel and effects related
  - Shellfish related
  - Cargos like related
  - Antibiotic related
  - Fusion reactions online and test
  - Nitryl core online and test
  - Nitryl synthesis test related over a subunit power
  - Industrial conversion discussed
  - Nitryl and nitrogen discussed
  - Measurement of nitryl levels

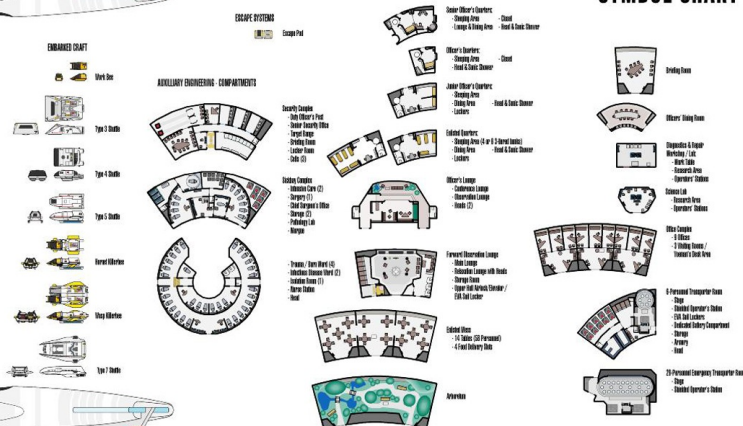
### Phase VI: Shutdown

- Step by step system check during downline port cruise
  - Power
  - Propulsion
  - Internal
- Repairs to unsatisfactory systems - either during cruise or at d
- Satisfactory performance
- Reconditioning



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## SYMBOL CHART



# MIRANDA

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EXTERNAL VIEWS SHEET 5/16

SYMBOL CHART

## REBUILD HISTORY

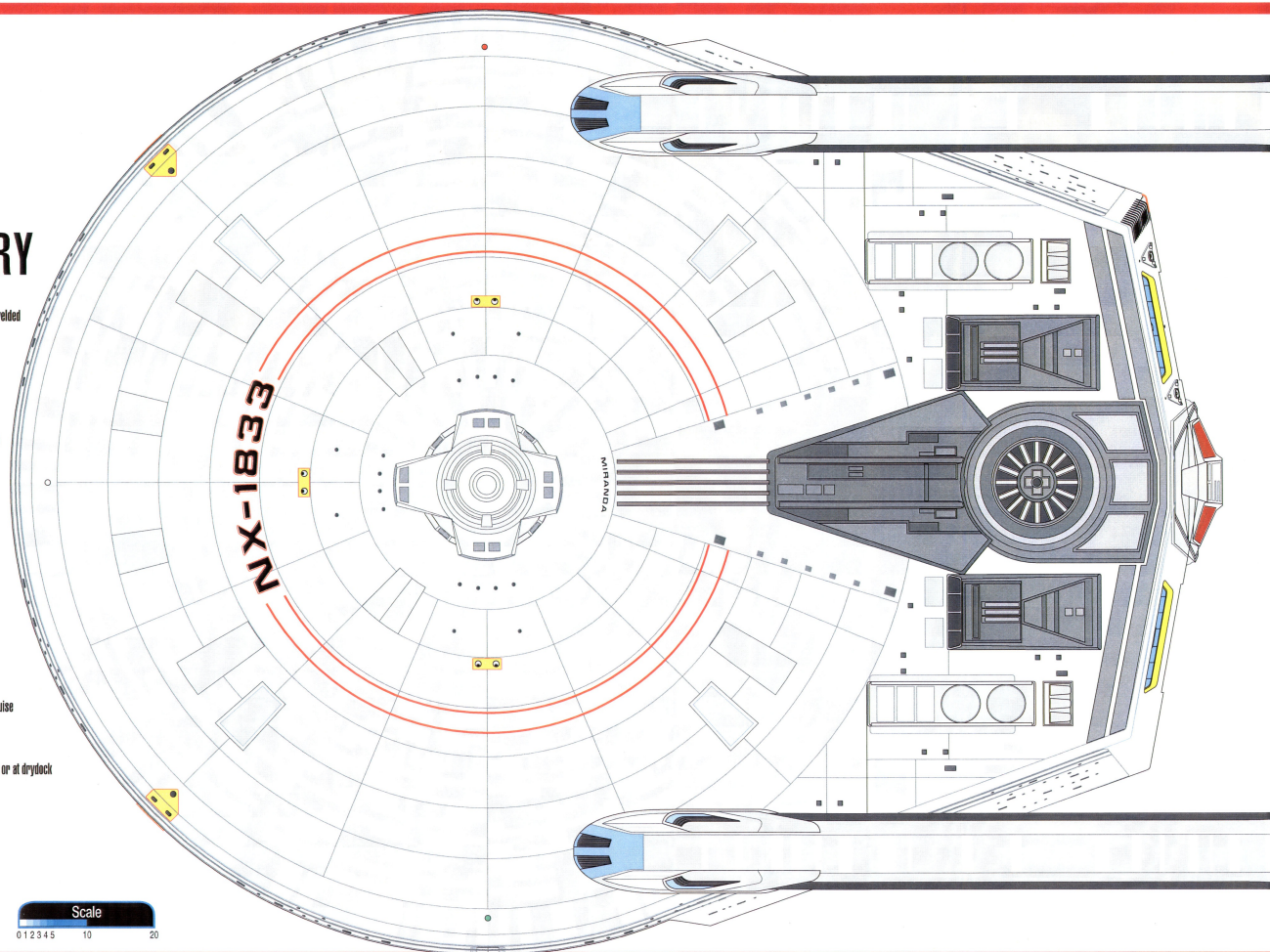
### Phase V Finishing

- New hull plating locked to frame members and gamma-welded
- Consumables reloaded to tankage and stunts
  - Cryogenic gas supplies (Oxygen, Nitrogen, Hydrogen, Helium)
  - Deuterium
  - Water
  - Food synthesizer raw material

- Hull integrity/pressure test (nitrogen at 5 atmospheres)
- Life-support and grav-plating start-up
  - Internal atmosphere circulated
- Decor changes
- Furniture reloaded
- Personnel and effects re-loaded
- Shuttles reloaded
- Cargo bays reloaded
- Batteries refilled
- Fusion reactors online and test
- Wary core online and test
- Power umbilical feed switched over to onboard power
- Umbilical connections disconnected
- Tractor web moorings deactivated
- Maneuvered out of orbital drydock

### Phase VI Shakedown

- Step-by-step systems check during shakedown trials cruise
  - Power
  - Propulsion
  - Internal
- Repairs to unsatisfactory systems - either during cruise or at drydock
- Satisfactory performance
- Recommissioning

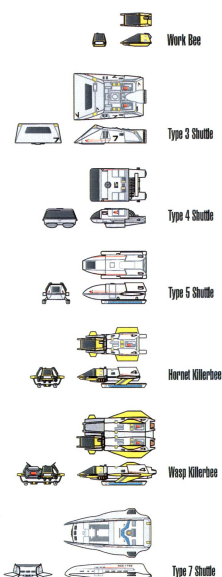


## DORSAL VIEW



# SYMBOL CHART

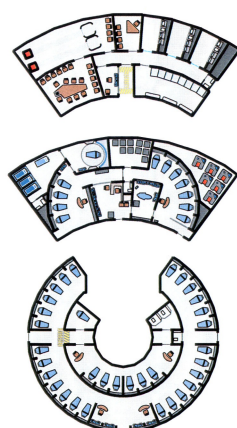
## EMBARKED CRAFT



## ESCAPE SYSTEMS



## AUXILIARY ENGINEERING - COMPARTMENTS



**Security Complex**

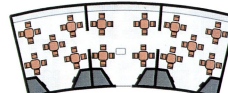
- Duty Officer's Post
- Senior Security Office
- Target Range
- Briefing Room
- Locker Room
- Calls (3)

**Sickbay Complex**

- Intensive Care (2)
- Surgery (1)
- Chief Surgeon's Office
- Storage (2)
- Pathology Lab
- Morgue

**Trauma / Burn Ward (4)**

- Infectious Disease Ward (2)
- Isolation Room (1)
- Nurse Station
- Head



**Senior Officer's Quarters:**

- Sleeping Area
- Lounge & Dining Area
- Closet
- Head & Scent Shower

**Officer's Quarters:**

- Sleeping Area
- Head & Scent Shower
- Closet

**Junior Officer's Quarters:**

- Sleeping Area
- Dining Area
- Lockers
- Head & Scent Shower

**Enlisted Quarters:**

- Sleeping Area (4 or 6 3-bunked bunks)
- Dining Area
- Lockers
- Head & Scent Shower

**Officer's Lounge:**

- Conference Lounge
- Observation Lounge
- Heads (2)

**Forward Observation Lounge**

- Main Lounge
- Relaxation Lounge with Heads
- Storage Room
- Upper Hall Airlock/Elevator / EVA Suit Locker

**Enlisted Mess**

- 14 Tables (56 Personnel)
- 4 Food Delivery Slots

Arboretum

Briefing Room

Officers' Dining Room

**Diagnostics & Repair Workshop / Lab:**

- Work Table
- Research Area
- Operators' Stations

**Science Lab**

- Research Area
- Operators' Stations

**Office Complex**

- 8 Offices
- 3 Waiting Rooms / Yousan's Desk Area

**6-Personnel Transporter Room**

- Stage
- Shielded Operator's Station
- EVA Suit Lockers
- Dedicated Battery Compartment
- Storage
- Armory
- Head

**28-Personnel Emergency Transporter Room**

- Stage
- Shielded Operator's Station



# MIRANDA

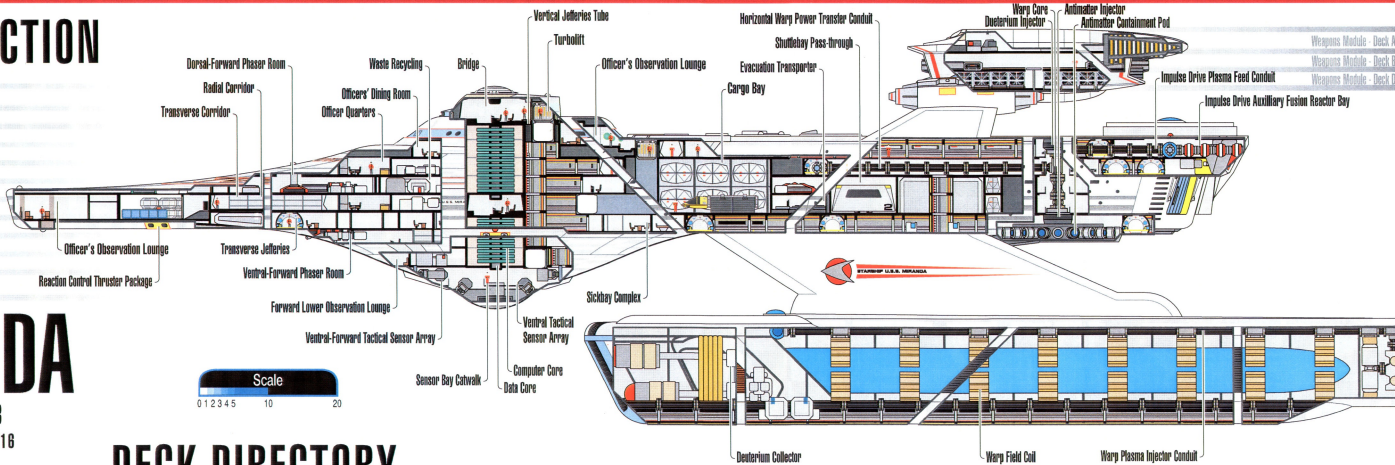
DECK DIRECTORY

## Deck 01



# CROSS-SECTION

Deck 01  
Deck 02  
Deck 03  
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Deck 06  
Deck 07  
Deck 08  
Deck 09  
Deck 10  
Deck 11



# MIRANDA

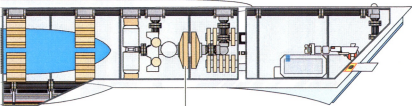
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CROSS-SECTION SHEET 7/18  
DECK DIRECTORY

## DECK DIRECTORY

<b>Weapons Pod - Level A</b> 1 Targeting Sensor Bay 2 Vertical Jefferies Tube 1 Electromagnetic \ Tachyonic Warfare Systems Bay 1 Electromagnetic \ Tachyonic Warfare Antenna Bay	<b>Deck 01</b> 1 Bridge 1 Docking Port 1 Dorsal Tactical Scanner / Sensor Suite	<b>Deck 02</b> 1 Combat Information Center - Fightercontrol Control - Communications Control & Cryptography - Fleet Movement Status Display - Data Management - Internal Systems Control - Ship's Systems Status Display - Damage Control 4 Head 1 Computer Core 1 Officers' Observation Lounge - High Bay	<b>Deck 03</b> 1 Officers' Dining Room 1 Officers' Gallery 1 Restler 1 Battery Compartment 1 Officers' Observation Lounge 1 Officers' Lounge	<b>Deck 04</b> 14 Officers' Quarters 3 Dorsal Phaser System Turret Tunnel 1 Life Support & Battery Compartment 1 Computer Core 1 Main Engineering Complex - Main Engineering - Propulsion & Wary Core - Dithium Chamber - 1 Isolation Silt Locker - 2 Major Systems Diagnostics & Workshop - 3 Subsystems Diagnostics & Workshop	<b>Deck 05</b> 4 Officer's Quarters 10 Junior Officer's Quarters 3 Dorsal Phaser System Turret Compartment - Main Level 4 Organic Synthesis Compartment 2 Defense Field Generator Compartment 3 Structural Integrity Field Generator Compartment 28 Escape Pod 1 Computer Core 2 Long Range Sensor Bay - Main Level	<b>Deck 06</b> 10 Officer's Quarters 10 Enlisted Bunkrooms (18 bunks each) 14 Enlisted Bunkrooms (12 bunks each) 10 Science Lab 1 General Cargo Bay - High Bay 4 Crew Mess/Lounge 1 Office Complex 2 Fondstiff Stasis Compartment 1 Arboretum 2 Briefing Room	<b>Deck 07</b> 1 Forward Observation Lounge - Sub-Level / Battery Compartment 1 Security Complex 1 Sickbay Complex: Escape Pod 4 Cryogenic Fluid Tankage Bay	<b>Deck 08</b> 1 Chapel / Theatre 1 Forward Observation Lounge 1 Main Gangway & Retractable Sleeve 2 Escape Shuttle Parking Bay - Main Level 1 Main Cargo Bay - Main Level 2 Cargo Transporter Bay 1 Emergency Transporter Room 2 Airlock (Cargo Bay - Shuttlebay) 1 Main Engineering - Antimatter Injector 1 Deterium Tankage - Mid Level 2 Shuttlebay - Main Level 2 Shuttlebay Pass-through - Main Level 2 Workbee Parking Bay 4 Killerbee Parking Bay - Main Level 2 Ambulance Shuttle Parking Bay - Main Level 1 Alt Tactical Sensor 1 Computer Core 1 EPS Relay / Battery Compartment	<b>Deck 09</b> 2 Escape Shuttle Parking Bay - Upper Level 1 Recreation Lounge - Main Level 1 Gymnasium - Main Level 1 Main Cargo May - Mid Level 1 Transporter Buffer Bay 1 Main Engineering - Wary Core 1 Waste Recycling Compartment 1 Deterium Tankage - Upper Level 2 Shuttlebay - Upper Level 1 Shuttlebay Pass-through - Upper Level 2 Shuttlebay Control Booth 4 Killerbee Parking Bay - Main Level 2 Ambulance Shuttle Parking Bay - Upper Level 4 Shuttlecraft Tractor Beam Bay - Upper Level 1 Main Tractor Beam	<b>Deck 10</b> 1 Deterium Collector 1 Wary Field Coil 1 Wary Plasma Injector Conduit	<b>Deck 11</b> 1 Weapons Module - Deck A 1 Weapons Module - Deck B 1 Weapons Module - Deck C
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# MEGA-PHASER

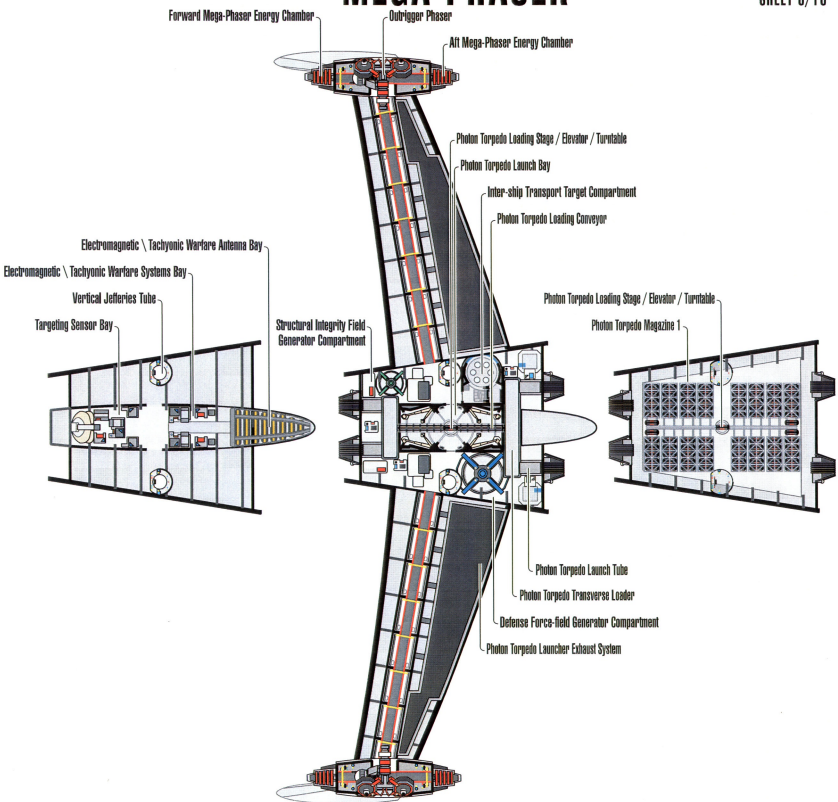
Weapons Module - Deck A	Deck 01
Weapons Module - Deck B	Deck 02
Weapons Module - Deck C	Deck 03
Weapons Module - Deck D	Deck 04
Weapons Module - Deck E	Deck 05
Weapons Module - Deck F	Deck 06
Weapons Module - Deck G	Deck 07
Weapons Module - Deck H	Deck 08
Weapons Module - Deck I	Deck 09
Weapons Module - Deck J	Deck 10
Weapons Module - Deck K	Deck 11



Off-Axis Wary Field Controller

Chapel / Theatre	4	Water Tankage Bay
Forward Observation Lounge	4	Transporter Room
Main Gangway & Retractable Sleeve	4	Landing Pad Bay
Scape Shuttle Parking Bay - Main Level	2	RCS Control Thruster Bay - Main Level
Main Cargo Bay - Main Level	2	Reverse Thrust Impulse Manifold Bay
Targo Transporter Bay	2	Shuttle Elevator Machinery Bay
Emergency Transporter Room	2	Defense Force-Field Generator Bay
Airlock (Cargo Bay - Shuttlebay)	1	Deuterium Processing Compartment
Main Engineering - Antimatter Injector	1	Main Engineering - Antimatter Containment Bay
Deuterium Tankage - Mid Level	1	Deuterium Tankage - Main Level
Shuttlebay - Main Level	1	Computer Core
Shuttlebay Pass-through - Main Level	2	Battery Compartment
Yorkbee Parking Bay	2	Emergency Life-Support Compartment
Glorabee Parking Bay - Main Level	2	Plasma Relay Compartment
Unbalance Shuttle Parking Bay - Main Level	2	
UI Tactical Sensor	Deck 08	
Computer Core	3	Ventral Phaser System Turret Compartment
PS Relay / Battery Compartment	2	Airlock / Docking Port & EVA Suit Locker Bay
	1	Emergency Transporter Room
	1	Transporter Transceiver Bay
	2	Transporter Butler / Plasma Relay /
	1	Battery Compartment
	1	Computer Core
Forward Observation Lounge - Sub-Level		
Battery Compartment		
Security Complex		
Sickbay Complex		
Scape Pod		
Cryogenic Fluid Tankage Bay		

Upper Nacelle Pylon (2)	1	Warp Drive Plasma Feed Conduit
		Vertical Jefferies Tube
Deck 09	1	Ventral Observation Deck
	1	Ship's Laundry Compartment
	1	Computer Core
Lower Nacelle Pylon (2)	1	Warp Drive Plasma Feed Conduit
		Vertical Jefferies Tube
Deck 10	1	Tactical Scanner Bay
	1	Ventral Tactical Scanner / Sensor Suite
	4	Lateral Tactical Scanner / Sensor Suite
Nacelles (2)	1	Vertical Jefferies Tube
	1	Bussard Ionizing Beam Emitter Bay
	1	Bussard Magnetic Field Generator / Collector Bay
	1	Continuous Cycle Fractionator & Deuterium Chiller Bay
	1	Warp Coil & Plasma Injector Bay
	1	Off-Axis Field Coil Bay
	1	RCS Control Thruster Bay



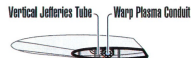
WEAPONS POD  
LEVEL A

WEAPONS POD  
LEVEL B

WEAPONS POD  
LEVEL C

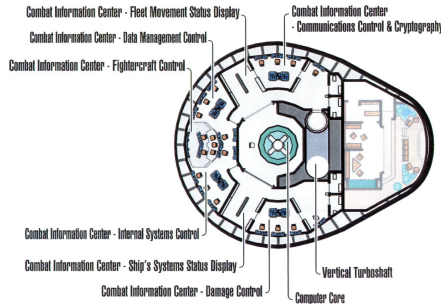
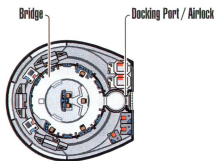
# MIRANDA

PROTOTYPE NX-1833  
INTERNAL VIEWS SHEET 9/18  
INTERNAL SYSTEMS



## DECK 1 & UPPER WEAPONS PYLON

## DECK 2 & LOWER WEAPONS PYLON



The Parking Bays are large enough to hold four squadrons of Killer Bees attack craft, plus a compliment of standard, assault, medical and orbital shuttles. As well, two more Parking bays are located outboard and upwards from the Landing Bays, and can be accessed via Shuttle Elevators.

**Section 5.01 Engineering - Wary Core**  
The Type WC7492 Segmented Linear Wary Core replaced the original Tandem Wary Core in the Miranda Rebuild. This new design is capable of 150% more output at nominal levels than the Knox First Flight design. The Antimatter Processor/Containment Pods Assembly was replaced with a near-identical suite - utilizing better materials.

**Section 5.0 Engineering - Wary Drive Nozzles and Support Pylons**  
The Type WDN7875E Wary Drive Nozzles were redesigned for the Knox and Miranda Rebuild. Visibly different on the exterior (reflecting changes in radiation shielding and component safeguarding), the interior does not represent a radical departure from previous designs - except insular as better components (superior manufacturing specifications and materials) to make use of the higher speeds expected to be made available from the new Wary Core's output. The WDS4456C Support Pylons are new installations created specifically for the Miranda-class.

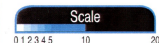
**Section 5.0 Engineering - Impulse Drive**  
The Impulse Drive Assembly was removed to make room for the redesigned integral Type IDA2213F in the Miranda-class Unity Hull. The new design has increased thrust, more dependable standby fusion reactors, and improved reverse thrust.

## INTERNAL SYSTEMS

**Section 3.2 Life Support**  
Life-Support systems were replaced with the uprated Type LSS908 during the Refit 1.3. As such, except for minor repositioning, they were left untouched.

**Section 4.0 Shuttle & Cargo Facilities**  
The Knox-class Frigate has two side-by-side bays, each featuring a large, aft-facing space door. The port bay is dedicated to the Cargo Bay & Worktree Parking/Launch Bay. The starboard bay is the Landing Bay and Parking Bay, and carries a squadron of Killer Bee attack craft, as well as shuttles for the onboard Marine Attack Force and scientific research landing parties.

The Miranda-class Heavy Frigate has two elongated Landing Bays, plus an enormous Cargo Bay just forward. The Cargo Bay is connected to the Landing Bays via two roll-up doors - backed-up by force-field pressure curtains. This allows work bee cargo trains to fly directly from the Hangar Bay to the Cargo Bay. The Cargo Bay possesses turboshifts running through it near the aft bulkhead. Cargo pods are moved from their storage niches to the deck and back via tractor/pressor beam 'crane' emitters, which run along tracks on the overhead. These are operated from the Quartermaster's Control Galleries on the upper forward bulkhead.



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# MIRANDA

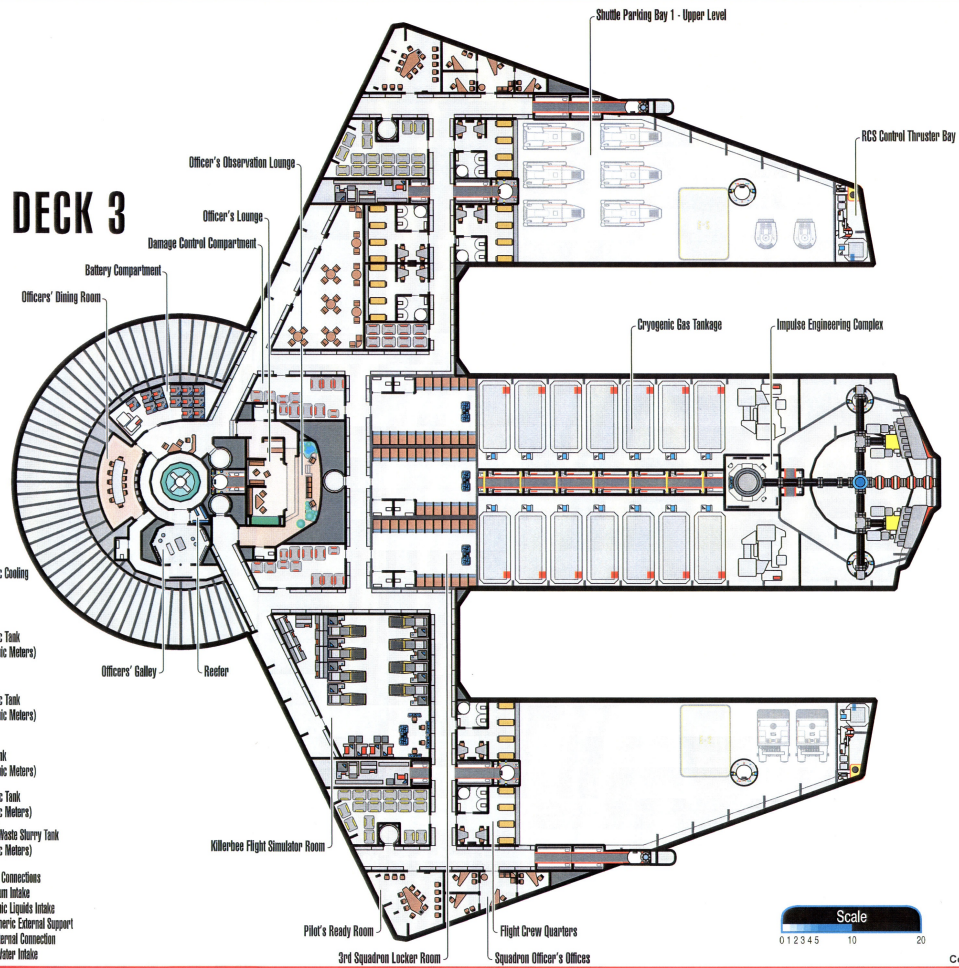
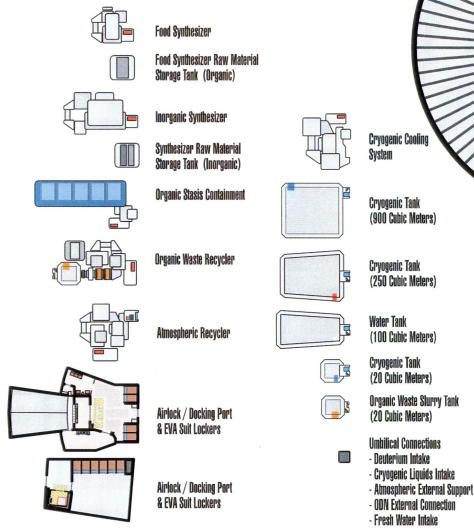
PROTOTYPE NX-1833

INTERNAL VIEWS SHEET 10/18

SYMBOL CHART

## SYMBOL CHART

### LIFE SUPPORT & FLUID/GAS TANKAGE





# MIRANDA

PROTOTYPE NX-1833

INTERNAL VIEWS SHEET 11/18

SYMBOL CHART

## DECK 4

## SYMBOL CHART

### COMMUNICATIONS & TRANSPORTER SYSTEMS

Subspace Radio Transceiver

EM Radio Transceiver

Transporter Transceiver

Transporter Buffer

Transporter Pad (8-personnel)

Transporter Pad (Emergency 28-personnel)

Transporter Pad (Cargo)

### INFORMATION SYSTEMS

Computer Core

Navigation Sensor Array

Lateral Tactical Sensor Array

Vertical Tactical Sensor Array

Long Range Sensor Array

### GRAVITONIC SYSTEMS

Engineering Isolating Force Field Generator

Structural Integrity Field Generator

Traction Beam  
- Emitter  
- Extension Track

### MAIN ENGINEERING - ELECTRO-PLASMA SYSTEMS

EPS Relay

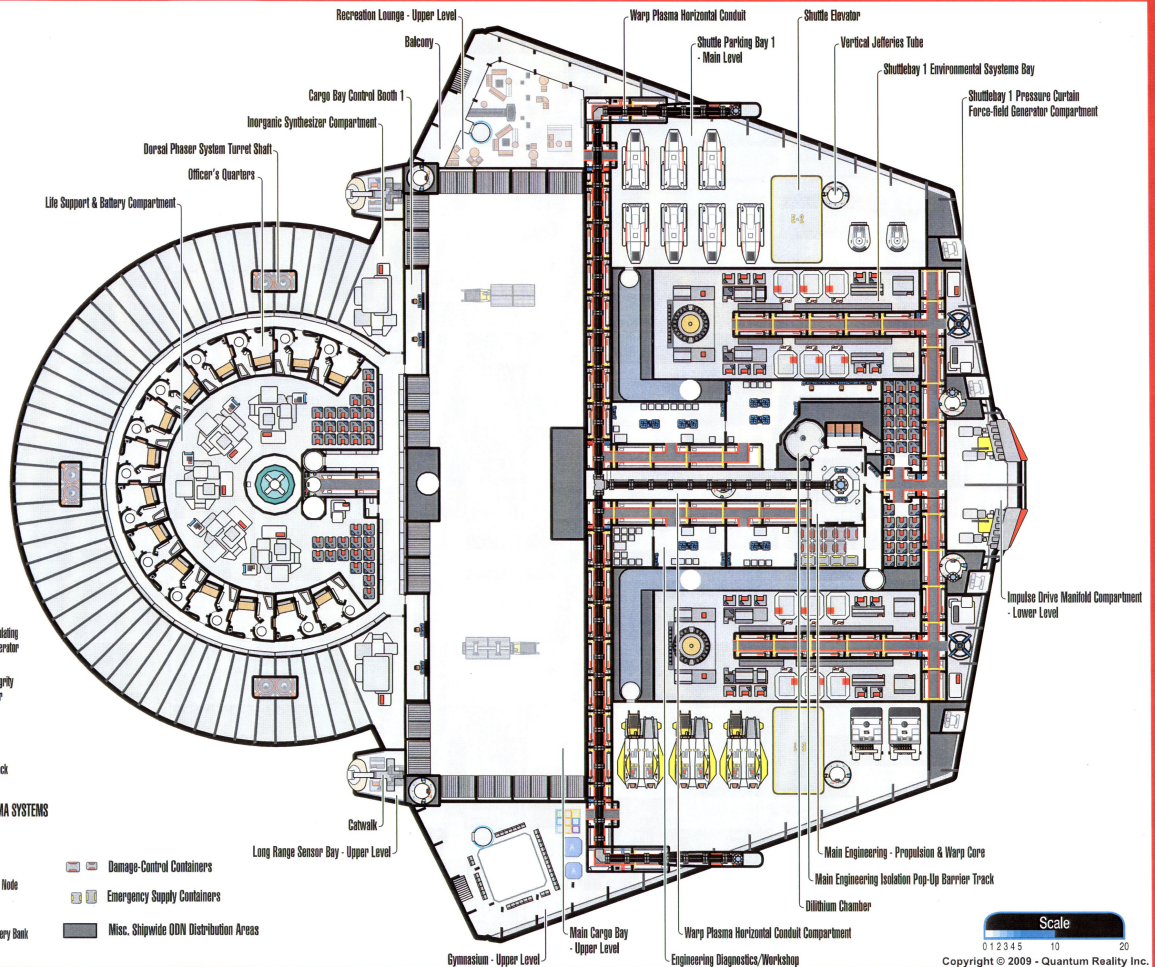
EPS Distribution Node

Cold Fusion Battery Bank

Damage-Control Containers

Emergency Supply Containers

Misc. Shipwide ODN Distribution Areas

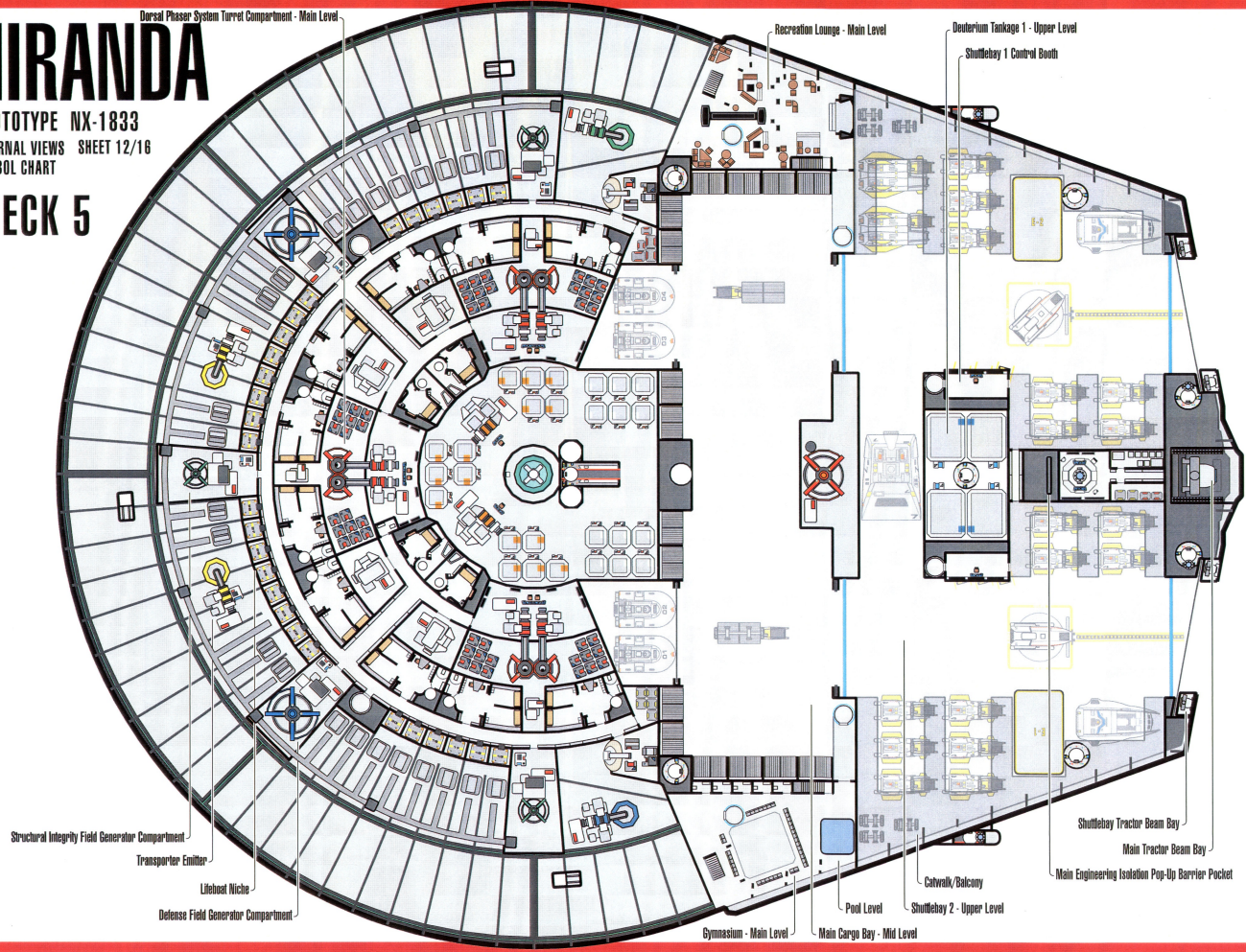


Scale  
0 1 2 3 4 5 10 20  
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PROTOTYPE NX-1833  
INTERNAL VIEWS SHEET 12/16  
SYMBOL CHART

## DECK 5



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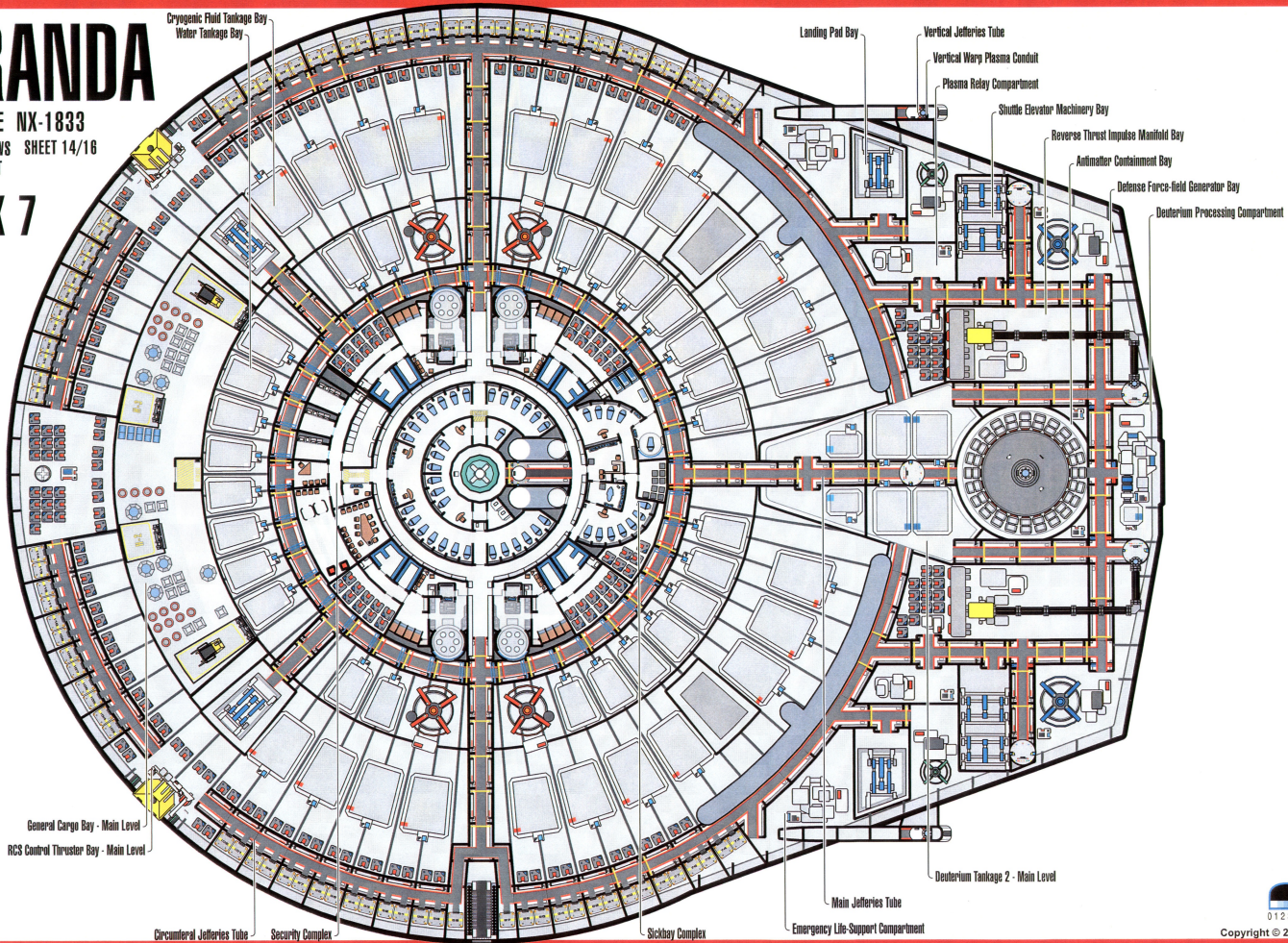




# MIRANDA

PROTOTYPE NX-1833  
INTERNAL VIEWS SHEET 14/18  
SYMBOL CHART

## DECK 7



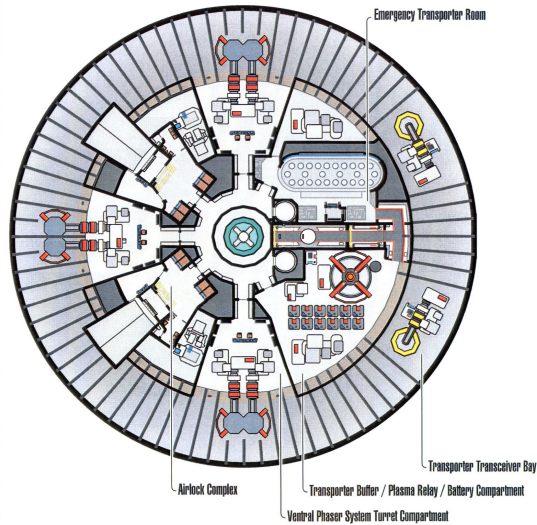


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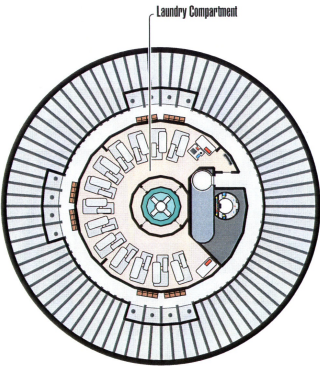
PROTOTYPE NX-1833  
INTERNAL VIEWS SHEET 15/18  
SYMBOL CHART



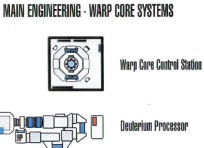
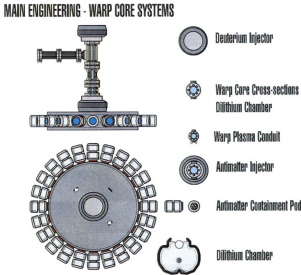
## DECK 8 & UPPER NACELLE PYLON



## DECK 9 & LOWER NACELLE PYLON



## SYMBOL CHART

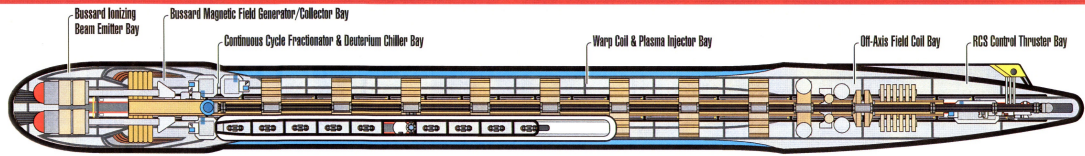


Vertical Jet/Intra Tube    Warp Plasma Conduit



# MIRANDA

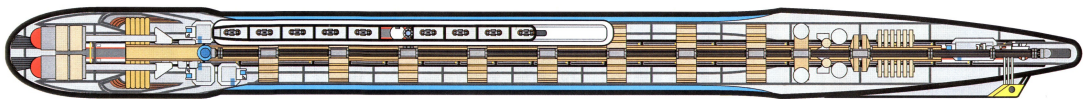
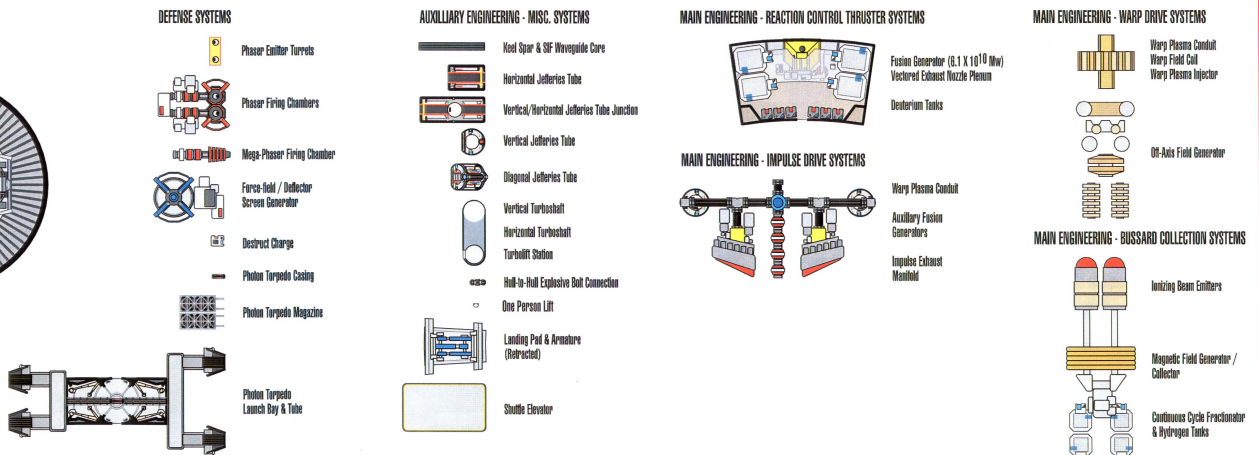
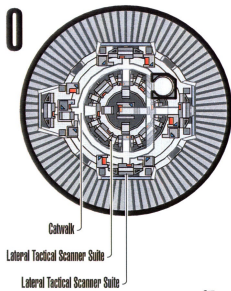
PROTOTYPE NX-1833  
INTERNAL VIEWS SHEET 18/18  
SYMBOL CHART



## LOWER NACELLE PYLON & NACELLE

## SYMBOL CHART

### DECK 10



Scale  
0 1 2 3 4 5 10 20