

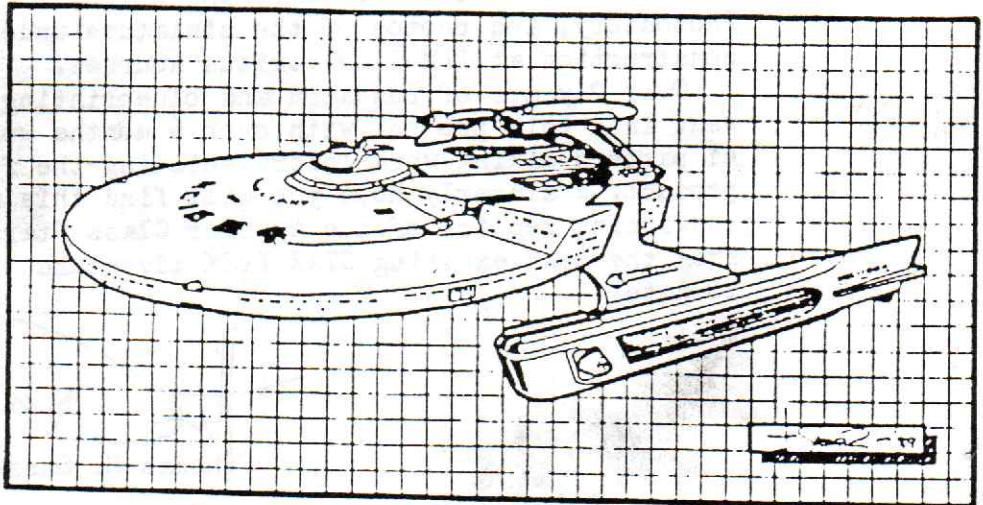
UNITED FEDERATION OF PLANETS

U.S.S. RELIANT

STAR FLEET ASSEMBLY MANUAL

PROCEDURES FOR
AVENGER/
HEAVY FRIGATE
CLASS STARSHIPS

TERRAN EDITION
MEMORY ALPHA RELEASE NO. **NSS, 8901.22**



STAR FLEET DIVISION

SAN FRANCISCO NAVAL YARDS
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A Note from the Designer:

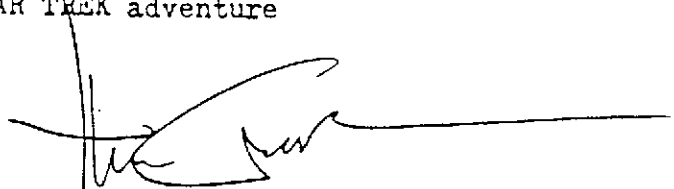
To all Lunar Cadets, or Sci-Fi Buffs,

What you now have, represents my personal efforts at building a new and unique Starfleet vessel.

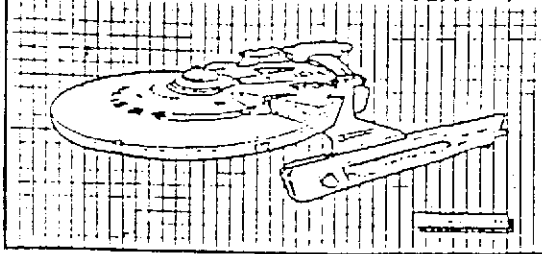
The original RELIANT model for the feature film, "STAR TREK II THE WRATH OF KHAN" was built at Steve Gawley's model shop at ILM in Northern California with additional work by Bill George. (His level of detailing on RELIANT is similar to his work on STAR WARS rather than the clean smooth Starfleet design.) Built strictly from blueprints by Lee Cole, RELIANT was originally designed by Joseph Jennings and Mike Minor.

The construction blueprints for my version were taken from the "ST II TWOK" movie, the Photostory, and photos of the miniature under construction at ILM from various sources.

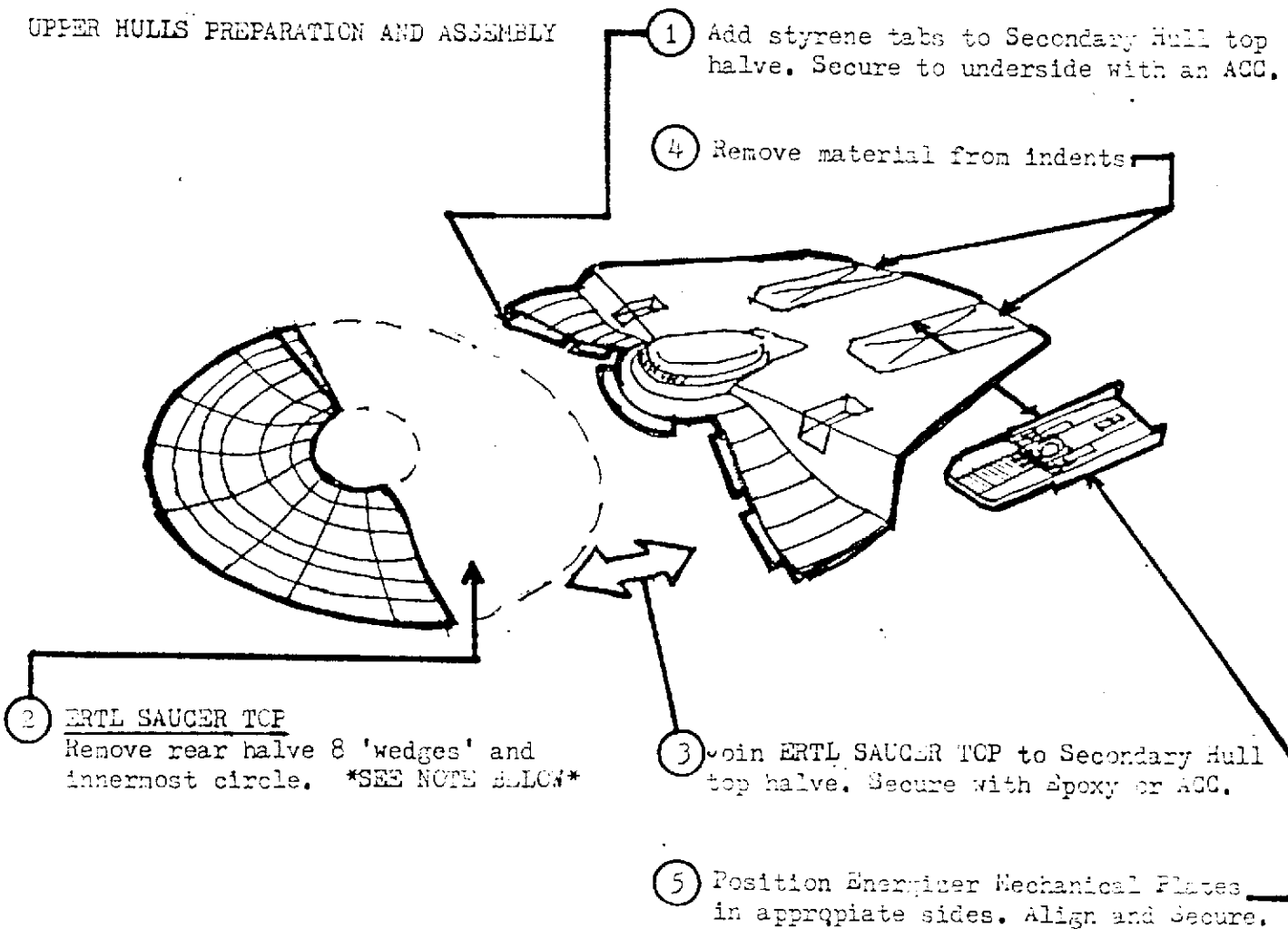
Over 7 years of research and blueprinting went into this project with over 6 months worth of pattern making work before yeilding the final product. I sincerely hope you will find this a convincing replica of the Avenger Class Starship from the most exciting STAR TREK adventure to date!



Thomas M. Sasser

CLASSIFIED**PROCEDURES FOR
AVENGER CLASS STARSHIPS**

PLEASE FOLLOW ASSEMBLY STEPS IN ORDER AS NUMBERED !!!!!

ASSEMBLY "A"**UPPER HULLS PREPARATION AND ASSEMBLY**

① Add styrene tabs to Secondary Hull top half. Secure to underside with an ACC.

④ Remove material from indents

② ERTL SAUCER TOP
Remove rear half 8 'wedges' and innermost circle. *SEE NOTE BELOW*

③ Join ERTL SAUCER TOP to Secondary Hull top half. Secure with Epoxy or ACC.

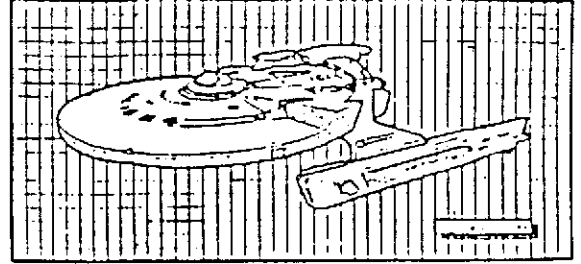
⑤ Position Energizer Mechanical Plates in appropriate sides. Align and Secure.

* NOTE! On STARBOARD side of Saucer Top, do not remove all of wedge aft of east/west centerline. Leave a 1/8" strip of plastic on the OUTBOARD side and taper it up to the E/W INBOARD scribed deflector line.



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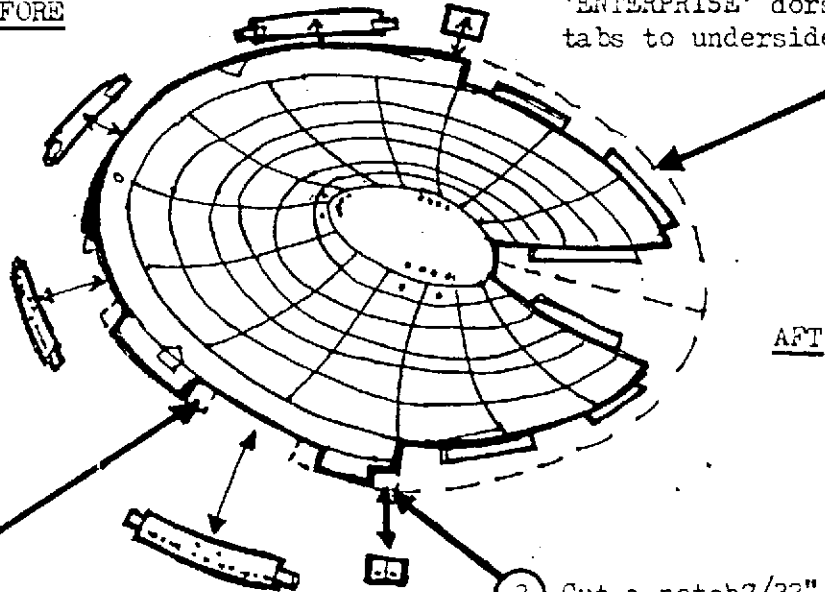
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ASSEMBLY "B"

LOWER SAUCER PREPARATION AND ASSEMBLY

FORE



AFT

① ERTL SAUCER BOTTEM

Remove outermost ring and Saucer Side AFT of Saucer east/west centerline. Also remove 2 'wedges' from around 'ENTERPRISE' dorsal socket. Add styrene tabs to underside of cutoff areas.

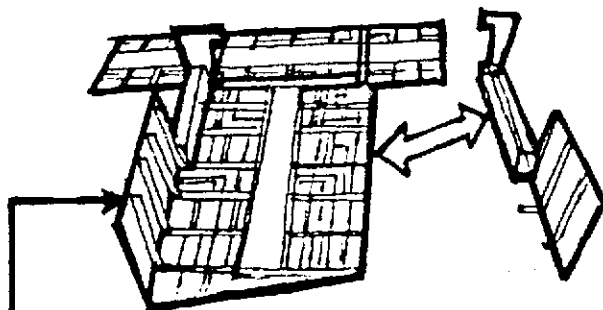
② Cut a notch $7/32$ " wide by $7/32$ " high on each side of Saucer Side for Gangway Hatches. Test fit after cuts with Secondary Hull Bottem Halve before securing Hatches to Saucer. (Windows point 'up')

③ Widen existing viewport slots on ERTL Saucer $1/4$ " wider on both sides of all viewport slots. Test fit Viewports before securing.

454

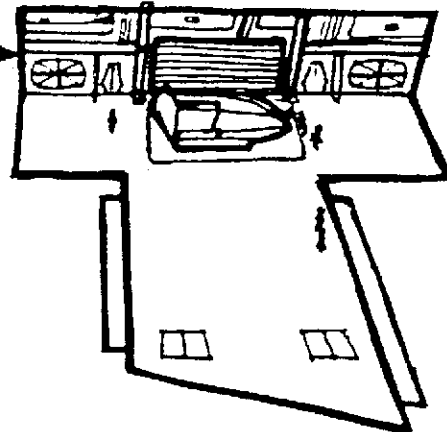
ASSEMBLY "C"

HANGER BAY ASSEMBLY

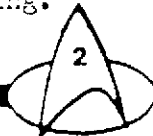


① Place Hanger Walls onto appropriate sides of Ceiling, alligning Wall Beams with Ceiling Beams before securing.

② Slide Rear Hanger Wall onto Hanger Deck. Secure.

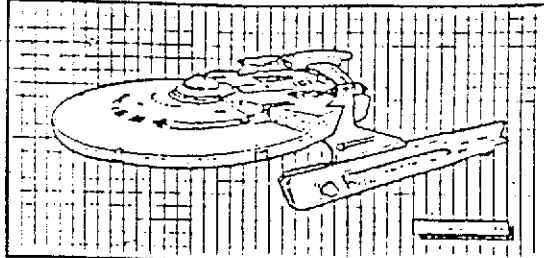


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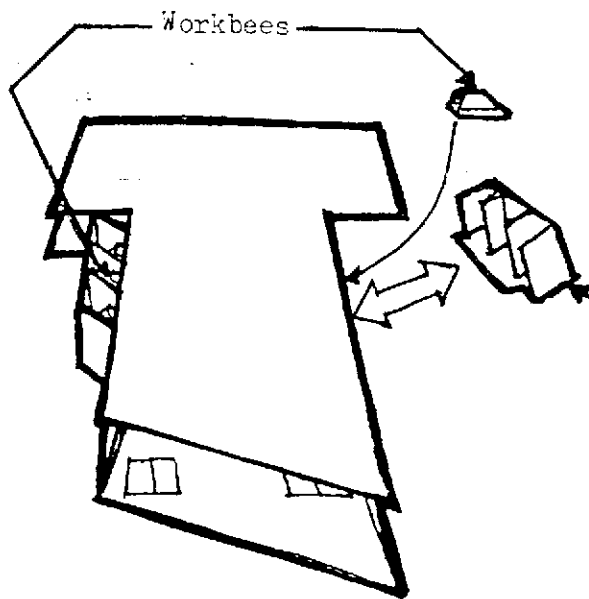


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ASSEMBLY "C" CONTINUED

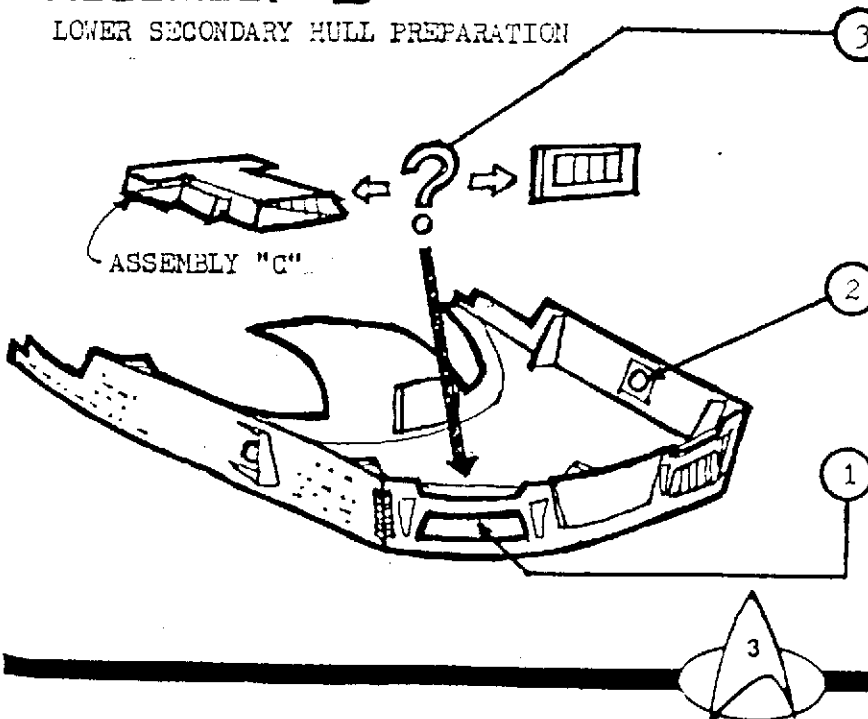


- 3 Place Shuttlecraft on elevator platform, or on Hanger Deck. (Optional)
- 4 Place Crewmen on Hanger Deck around Shuttle, Workbee Holds, Etc.... (Optional)
- 5 Secure Ceiling Assembly to Deck Assembly.
- 6 Secure Workbee Alcoves to doorways in Hanger Walls. (Alcoves point towards Ship's Bow.)
- 7 Place Workbees in Alcoves with Aft end of Workbee on Hanger Deck. (1 Workbee each slot.)

343

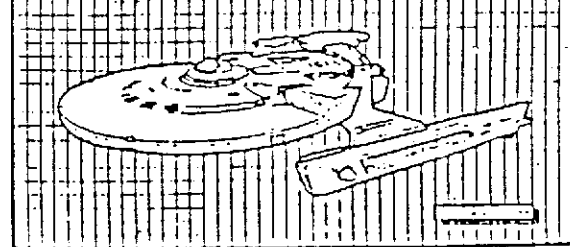
ASSEMBLY "D"

LOWER SECONDARY HULL PREPARATION



- 3 OPTICNS:
Position and secure Bay Doors behind Doorway,
OR,
Slide Assembly "C" inside Lower Hull upto Hanger Doorway. Secure.
- 2 Remove material from indented circles on both sides of Lower Hull.
- 1 Remove material from Portside Hanger Doorway.

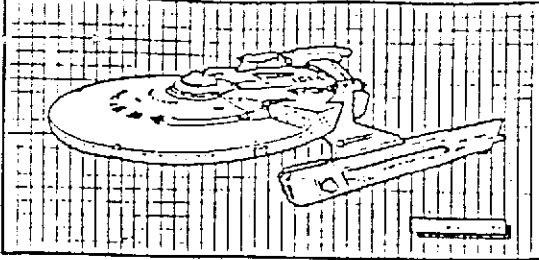
88

CLASSIFIED**PROCEDURES FOR
AVENGER CLASS STARSHIPS****ASSEMBLY "E"**

MAIN HULLS ASSEMBLY AND DETAILING

-
- ③ Slide Energy Field Sensor Machinery into appropriate sockets on Main Hull Assembly. Secure.
- ④ Align and secure Energy Field Sensors onto appropriate sides so that they fit flush.
- ⑤ Align and secure Upper Sensor Dome to Bridge Housing. Attach this assembly to Main Hull Assembly.
- ⑥ Align and secure Impulse Deflector Dome to Deflector Deck Panel.
- ⑦ Align and secure Deflector Deck Panel Assembly to top of Secondary Hull. NOTE: Do not putty forward seam line.
- *DO NOT round off top of center raised panel when sanding other seam lines.
- ② Align and secure Upper Hull Assembly to Lower Hull Assembly. Putty all seam lines. Allow adhesive and putty to fully cure before sanding. Sand sharp corners on Secondary Hull seams so they are rounded.*
- ① Join Secondary Hull Lower Halve Assembly to ERTL SAUCER BOTTEM HALVE Assembly. Secure with Epoxy or ACC.
- ⑧ Align locator pins on Lower Sensor Housing to holes in ERTL SAUCER. Secure.



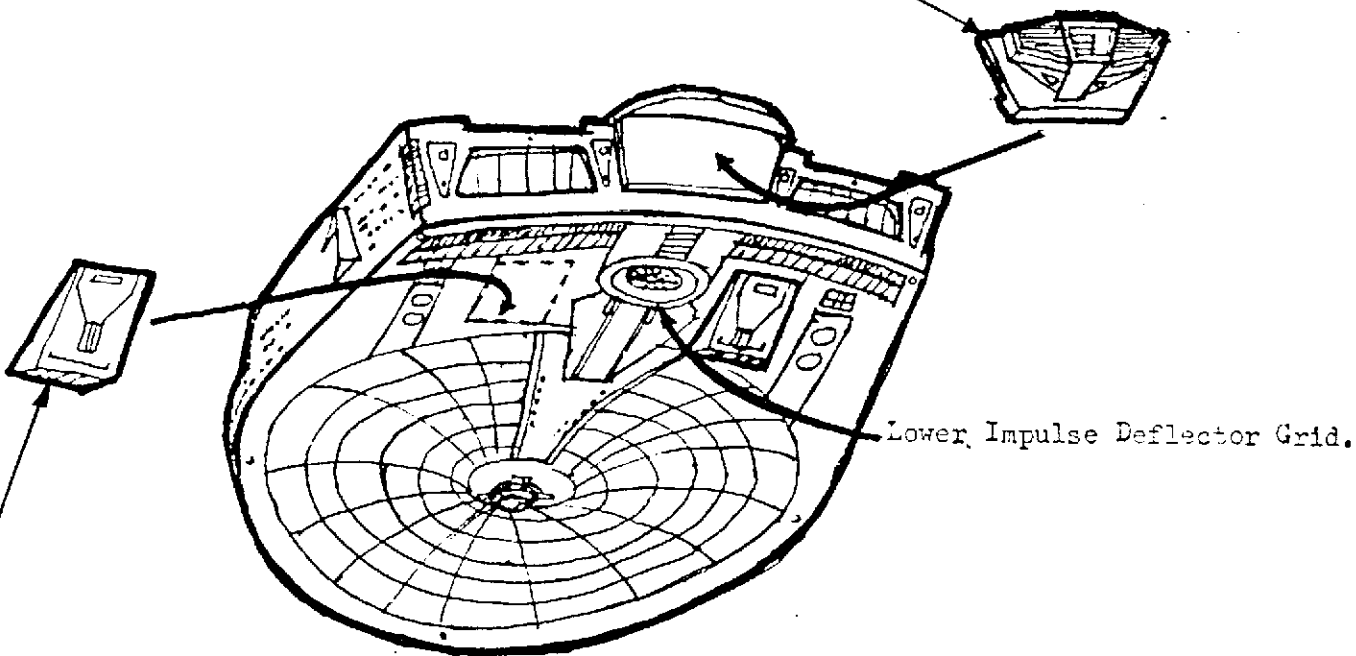


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ASSEMBLY "F" SECONDARY HULL DETAILING

2 Slide Impulse Deck up to Deflector Deck. Align and secure.



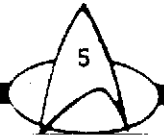
1 Position Navigation Deflectors onto indented areas Port and Starboard of Lower Impulse Deflector Grid. Secure.

65

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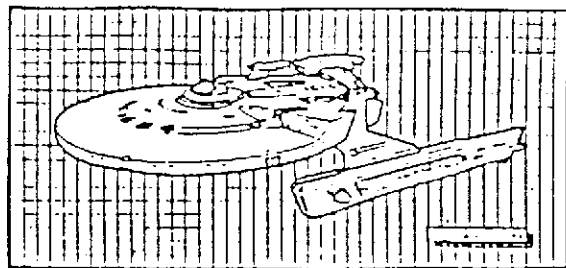
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ASSEMBLY
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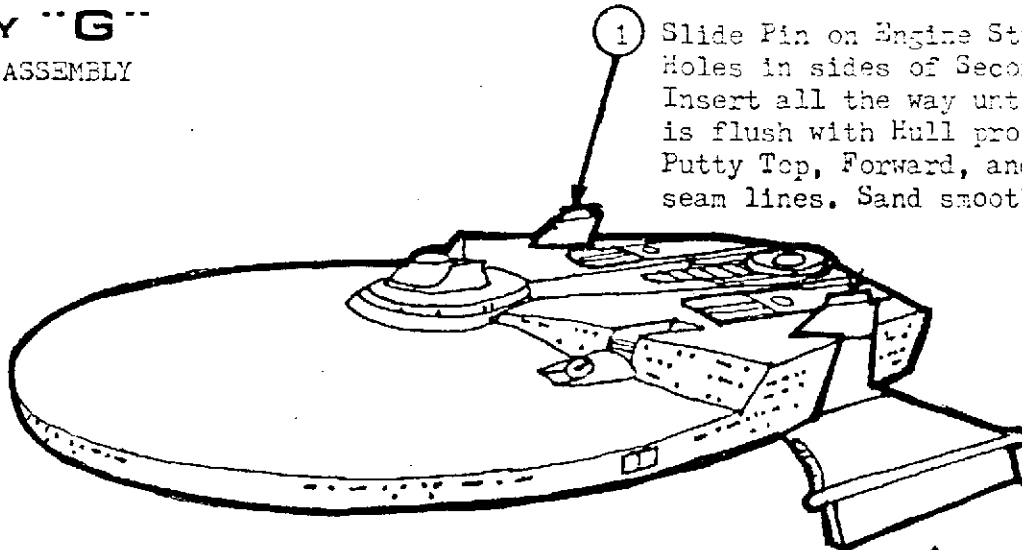
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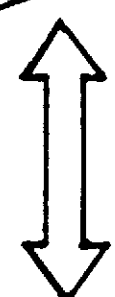


ASSEMBLY "G"

ENGINE STRUTS ASSEMBLY

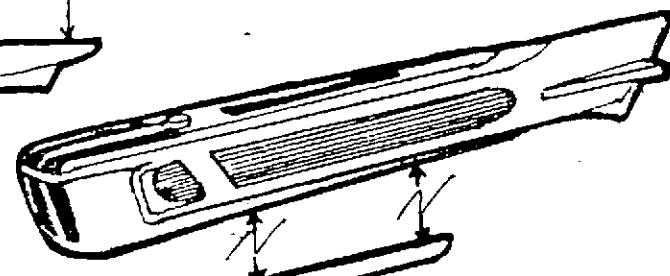
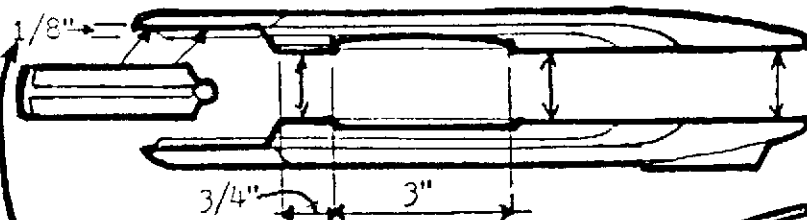


- 1 Slide Pin on Engine Struts into Holes in sides of Secondary Hull. Insert all the way until Strut is flush with Hull projection. Putty Top, Forward, and bottom seam lines. Sand smooth when dry.



ASSEMBLY "H"

WARP ENGINE NACELLES ASSEMBLY

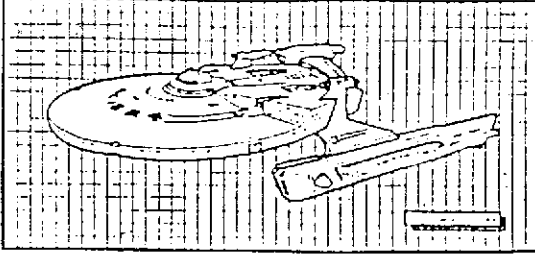


- 1 Remove 1/8" of styrene from both inboard and outboard halves of ERTL Engines at forward end piece slot. Test fit Energy Matter Sink piece after cuts for proper fit.
- 2 Cut a slot 3/16" wide by 3" long on the INBOARD ERTL Engine halves. Test fit on Engine Strut for proper fit.
- 3 Align and secure Energy Matter Sinks to Inboard Engine halves. Secure proper Inboard halves to Outboard halves.
- 4 Remove lower Dorsal Bars on Engines. Fill slot with styrene and putty all seam lines. Sand when dry.
- 5 Slide completed Engine assemblies onto lower ends of Engine Struts. Secure.



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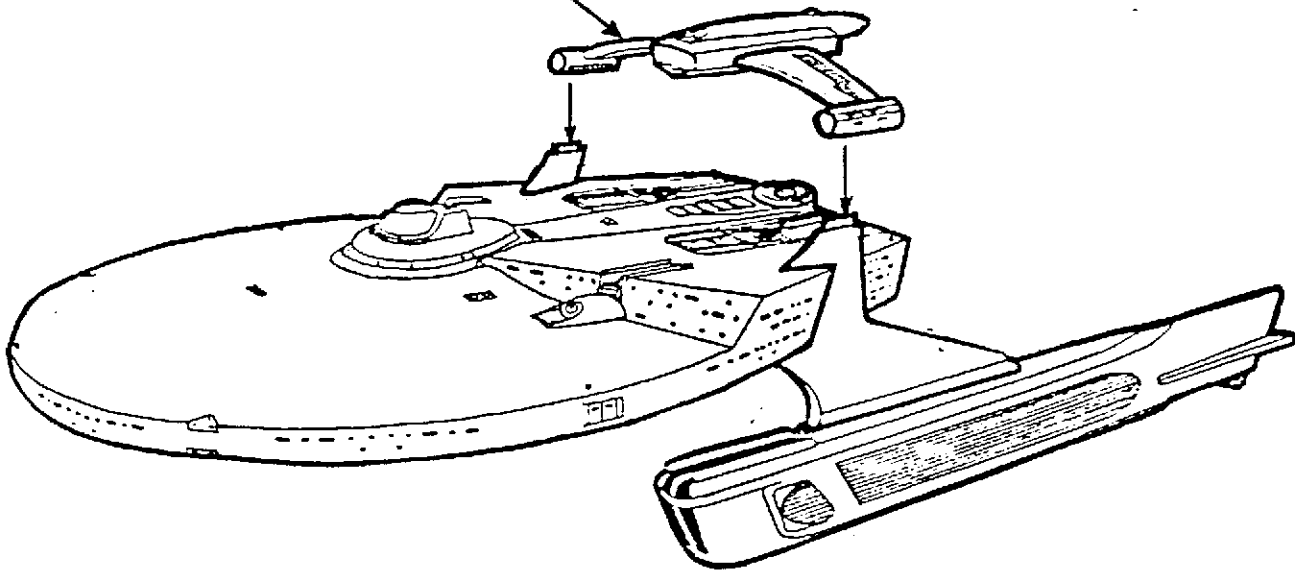
ASSEMBLY "I"

TORPEDO POD ROLL BAR ASSEMBLY

- 1 Slide STARBOARD Roll Bar into Pod up to scribed line. Allow Roll Bar to 'hang down' and then secure.

- 2 Slide Port Roll Bar into Pod up to scribed line. Position downward slope as Starboard side is. Secure. Putty joint line on both sides. Allow to dry and sand joint smooth.

- 3 Align locator tabs on Struts to sockets in Phaser Cannons. Secure.



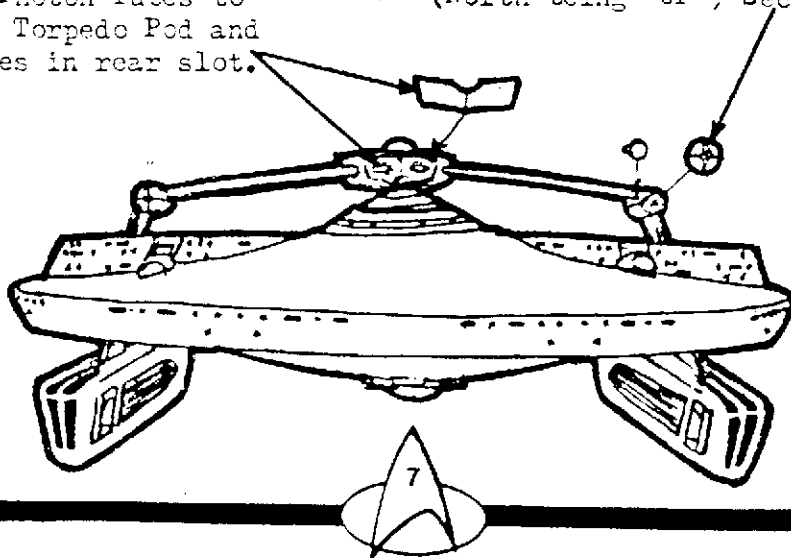
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ASSEMBLY "J"

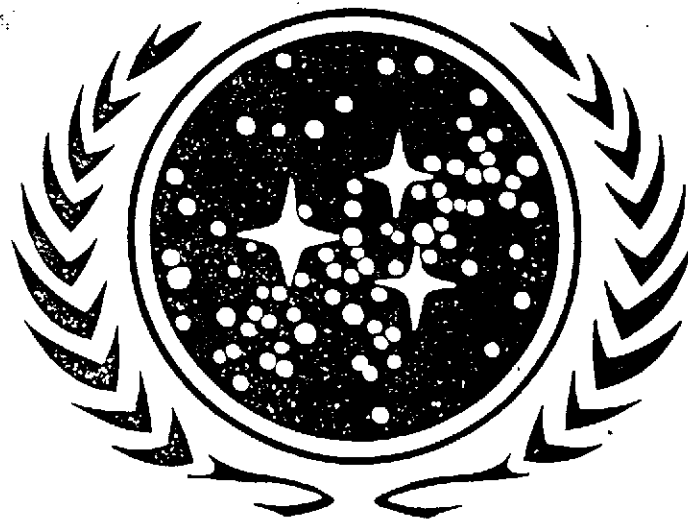
TORPEDO POD ROLL BAR DETAILING

- 1 Secure forward Photon Tubes to forward slot in Torpedo Pod and rear Photon Tubes in rear slot.

- 2 Align Phaser Cannon Cones to a North, South, East, West configuration. (North being 'UP') Secure.



88



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*"... to boldly go
where no man has gone before."*

— from the Starfleet charter