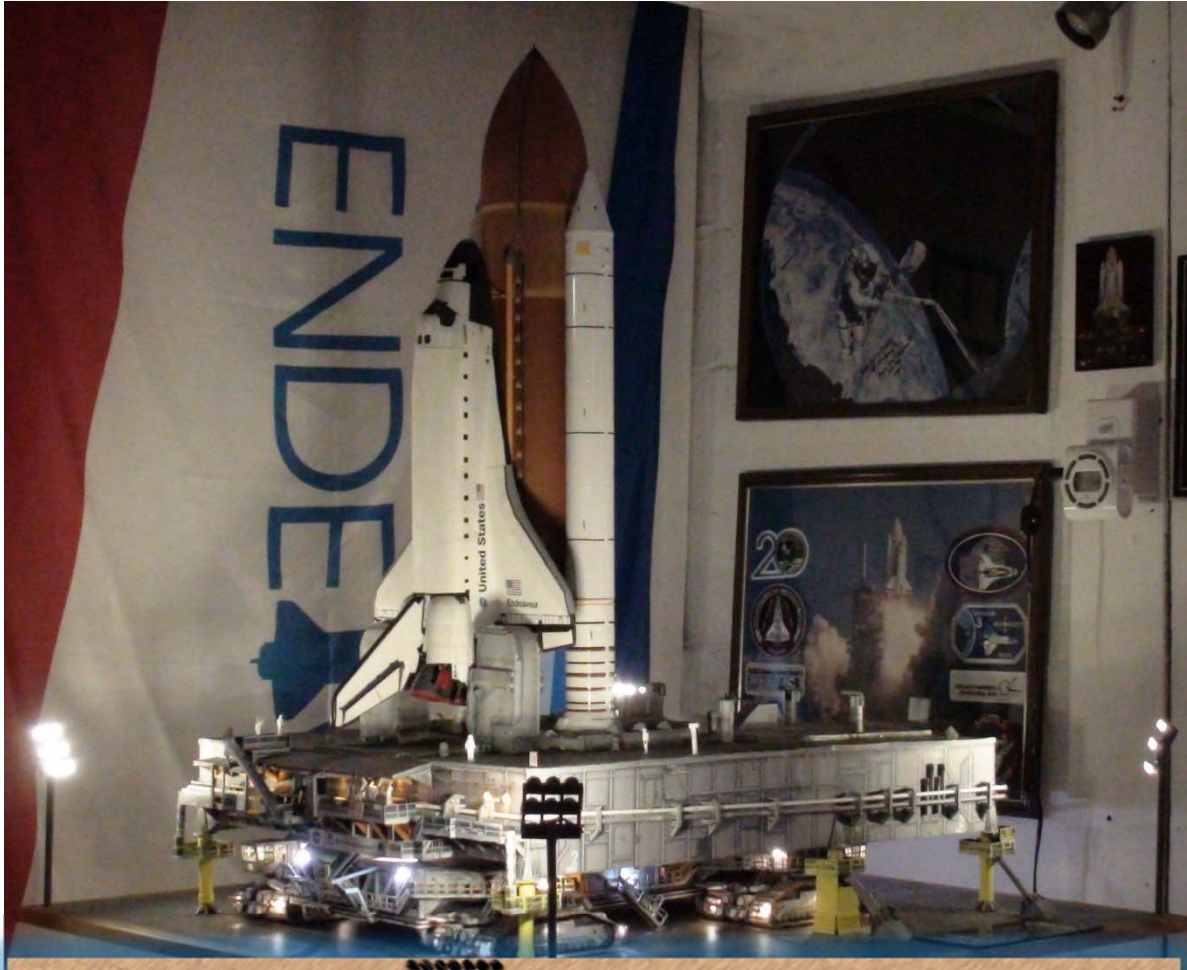




# Lake County SpacePort

"Ad Astra per Formae"

## 2017 Space Shuttle Modeling Products Catalog



## **Space Modeling Detailing Products Catalog**

We are pleased to offer a selection of specialized Space Shuttle modeling products, the result of our work here at the SpacePort, in hopes that they will help you build the best model you can build.

**NOTE - These items are available for sale on our Website directly as well as on eBay, Quantities will deplete from time to time.**

If an item is not available when you put in an order from this site, you will get an email update, informing you when the next production batch is to become available. You can decide to wait to order to keep your order open for completion upon production of new inventory.

When you click on the price of any item, you will open the "Contact Us / Order from Us" page, in which you can provide your shipping information, email address, and the items you wish to purchase. LCSP will then reply with a Pay Pal invoice, for all items, plus shipping.

The prices shown here do not include shipping. Shipping costs will be calculated and shown on the invoice at the time of payment. As we use USPS Priority Flat Rate Shipping, U.S. Domestic 2day Service is typically \$5.75.

International Priority Mail costs will be higher, and will depend on the destination country.

Since USPS Priority Mail Flat Rate Shipping covers up to 70 lbs. (!), for one price, it is best to "bundle" your purchases together, rather than pay for multiple shipping fees!

**If you order directly from the Website, and purchase two or more items, Domestic Shipping is FREE!  
(1/2 price shipping for International Orders)**



*Recommended Detailing Combinations for Specific Space Shuttle  
Orbiter Modeling Projects for 1/72, 1/100 and 1/144 scales*

OV-102 “Columbia”

OV-099 “Challenger”

Space Shuttle Standard Black Tile Decal Set (STS-STD-1-xxx)

Early Era Shuttle Additional White Tile Decal Set (STS-ETD-1-xxx)

Options -

Space Shuttle Payload Bay Detail Set (STS-PDS-1-xxx) (if Payload Bay Doors are to be open)

Space Shuttle Detail Applications Set (STS-DAS-1-xxx)

There are other detail part and decal suppliers whose products are those which we have used ourselves in our own Space Shuttle modeling projects, as shown on the LakeCountySpacePort.com website.

A complete list of those parts and decal suppliers, for both 1/72 and 1/144 scale models, are provided in a separate Supplier Index, provided on Page 4.



*Recommended Detailing Combinations for Specific Space Shuttle  
Orbiter Modeling Projects for 1/72, 1/100 and 1/144 scales*

OV-103 “Discovery”

OV-104 “Atlantis”

OV-105 “Endeavour”

A & B - Space Shuttle Standard Black Tile Decal Set (STS-STD-1-xxx)

A - Shuttle Orbiter AFRSI (Tape-based) Replication Process Guide (Free PDF) **and**  
Late Era Shuttle White Tile Decal Sheet (STS-LTD-1-72 - 1/72 scale only)

Or

B - Alternate Option – Shuttle Late Era Shuttle AFRSI & White Tile Decal Set (STS-LAD-1-xxx)

Options -

Space Shuttle Payload Bay Detail Set (STS-PDS-1-xxx) (if Payload Bay Doors are to be open)

Space Shuttle Detail Applications Set (STS-DAS-1-xxx)

There are other detail part and decal suppliers whose products are those which we have used ourselves in our own Space Shuttle modeling projects, as shown on the LakeCountySpacePort.com website.

A complete list of those parts and decal suppliers, for both 1/72 and 1/144 scale models, are provided in a separate Supplier Index, provided on Page 4.



**Space Shuttle Detail Parts from Noted Vendors****Price (as of Oct. 2017)**

The suppliers shown are those which we have used ourselves in our own Shuttle Orbiter modeling projects, as seen on [LakeCountySpacePort.com](http://LakeCountySpacePort.com).

**New Ware** (Link - <http://mek.kosmo.cz/newware/>)

NW006 1/144 Space Shuttle Upgrade	\$24.00
NW131 1/144 Space Shuttle with Boosters for REVELL	\$55.00
NW134 1/144 Space Shuttle Orbiter for REVELL	\$30.00
NW143 1/144 Space Shuttle Orbiter for AIRFIX	\$30.00

**Real Space Models** (Link - <http://realspacemodels.com>)

1/144 Space Shuttle Main Engines (includes. OMS engines)	\$10.00
1/72 Payload Bay detail set	\$75.00
1/72 Space Shuttle Main Engines (includes OMS engines)	\$20.00
1/144 Space Shuttle Decals	\$ 8.00
1/72 Space Shuttle Decals	\$15.00

**Shapeways – NiParts** (Link - <http://Shapeways.com/shops/niparts>)

1/72 Scale SRB Heat Shields (pair)	\$19.52
1/72 SRB Tops (no Motors) (pair)	\$54.50
1/72 scale SRB Motors Assem2 (pair)	\$ 7.79
1/72 External Tank Umbilicals and Cross Member	\$15.22
1/72 scale External Tank Intertank	\$54.99
1/72 scale Ice Frost ramps (ET) (set of 18)	\$12.10
1/72 scale (SRB) ET Attach Ring Assembly (pair)	\$20.00
1/72 Orbital Docking System – Detail parts	\$19.21
1/72 Orbital Docking System Main Body & Frame	\$15.50
1/72 Space Shuttle ODS Complete Assembly	\$39.74
1/72 scale Space Shuttle OMS Engine w/Cover (each)	\$ 9.16
1/72 Scale Space Shuttle SSME (each)	\$21.85
1/144 Scale Space Shuttle SSME (each)	\$ 7.53

**Shapeways – HD Modelworks** (Link - <http://shapeways.com/shops/hdmodelworks>)

1/72 Space Shuttle OMS Engines (pair)	\$24.79
1/144 Space Shuttle OMS Engines (pair)	\$ 7.56

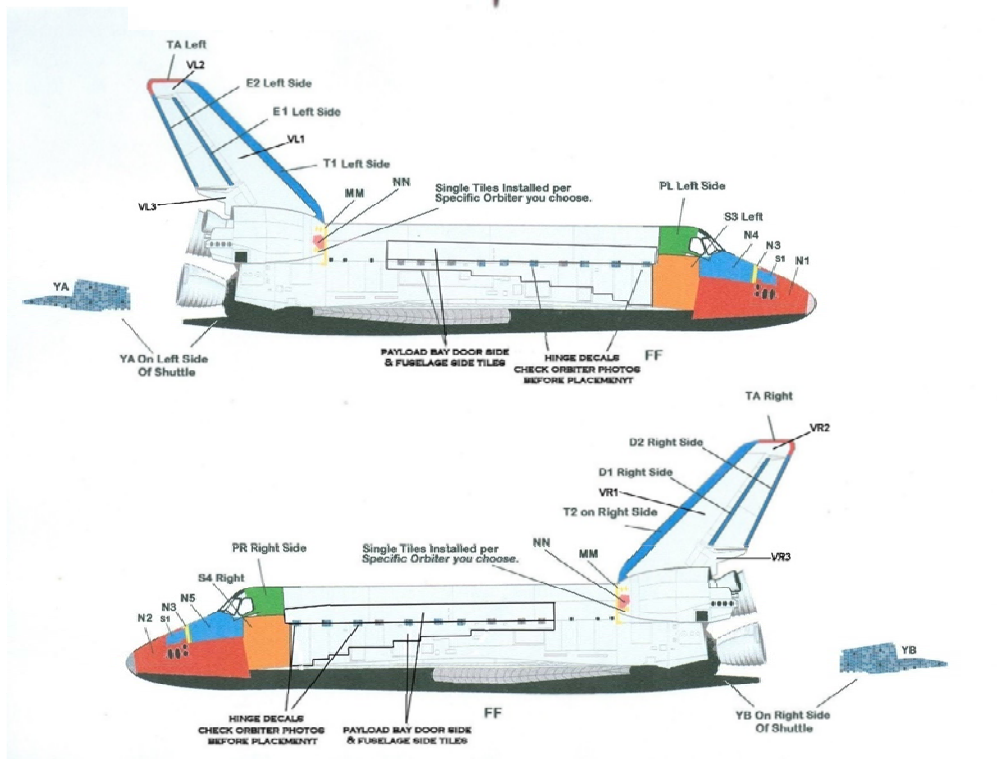
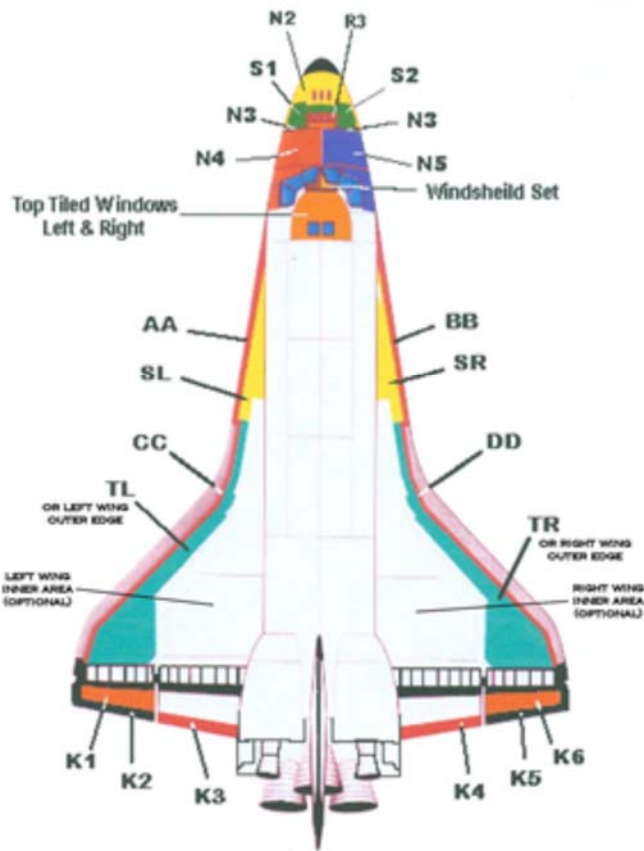
**Shapeways – Max Grueter** (<https://www.shapeways.com/shops/grueter>)

NASA Space Shuttle Pilot (1/72)	\$ 4.00
NASA Space Shuttle Crew Mission Specialist (1/72)	\$ 4.00
NASA Astronaut w/Shuttle EMU suit (1/72)	\$ 3.97
NASA Astronaut / CANADARM Position (1/72)	\$ 3.97
NASA Astronaut w/Shuttle EMU suit (1/144)	\$ 4.00

**Accurate Model Parts** (Link - <http://amp.rokit.biz>)

Space Shuttle Cockpit Window System – 1/72 scale only	\$12.90 (10.95 Euro)
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### Orbiter Tile Layout FOR EARLY ORBITERS



## **Standard Space Shuttle Tile Decal Set - 1/72, 1/100 & 1/144 scale**

**(STS-STD-1-72 for 1/72 - \$50.00) (STS-STD-1-100 for 1/100 - \$40.00) (STS-STD-1-144 for 1/144 - \$35.00)**

The Lake County Space Port "Standard" Orbiter Tile Decal Set includes all of the "black" Thermal Protection System (TPS) areas which are common to all Space Shuttle Orbiters. The set includes three full-size sheets and two partial-sized sheets, which contain the following TPS areas:

- Port Underside – Wing and bottom to center
- Starboard Underside – Wing to bottom center
- Port Nose Underside
- Starboard Nose Underside
- Port Nose Side (includes Port RCS Bank)
- Starboard Nose Side (includes Starboard RCS Bank)
- Nose Upper RCS Bank
- Upper Wing Fillers
- Vertical Stabilizer Front Edges
- Aft Thrust Structure
- Body Flap (top & bottom)

Full-color instructions are included with the decal set.

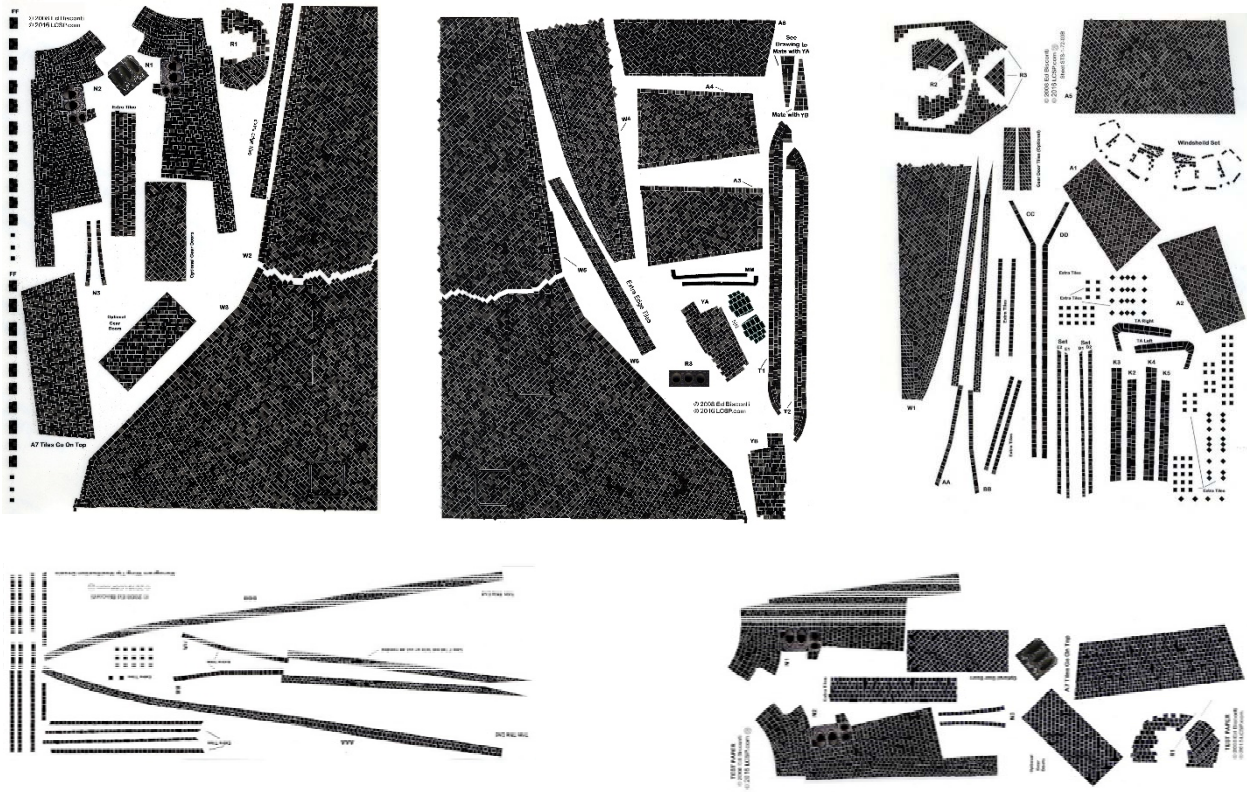
The Standard Tile Decal Set must be paired with a specific White Tile/Blanket Decal Set in order to complete the overall TPS system for the specific Orbiter you are modelling.

>>the Early Era Shuttle White Tile Decals Set.

>>the Late Era Shuttle AFRSI & White Tile Decal Set.

>>>the Late Era Shuttle White Tile Decal Sheet and the Flexible Reusable Surface Insulation Application Method, which uses a specific Johnson & Jonson "Band-Aid Brand Cloth tape, to replicate the texture of the FRSI "blankets."

We manufacture these sets by hand, in small batches, typically five or six sets at a time.



## **Early Era Space Shuttle White Tile Decal Set - 1/72, 1/100 & 1/144 scale**

**(STS-ETD-1-72 for 1/72 - \$40.00) (STS-ETD-1-100 for 1/100 - \$30.00) (STS-ETD-1-144 for 1/144 - \$25.00)**

The Lake County Space Port "Early Era" Orbiter Upper TPS Decal Set includes all of the "white" Thermal Protection System (TPS) areas, and other special detail areas, which are common to both early-era Space Shuttle Orbiters - OV-101 "Columbia" and OV-099 "Challenger." The set includes xxx full-size sheets and one partial-sized sheet, which contain the following TPS areas:

- Crew Compartment Top & Side Surfaces (cockpit area & Orbiter sides)
- Forward Fuselage Surfaces (forward for Cockpit to nose Black tiles)
- Mid-Body sides (below Payload Bay Doors)
- Payload Bay Door Lower surfaces
- Port & Starboard Wing Upper Surfaces
- Vertical Stabilizer Sides
- OMS Pod front surfaces

The set comes with two full size sheets of specifically designed white tile decals and one half-sheet of generic "white tiles," to use as replacement stock or to work the OMS Pod front tile coverings and a four-page instruction guide.

The Early Era TPS Decal Set must be paired with the Standard Tile Decal Set in order to complete the overall TPS system for the specific early Orbiter you are modelling.





## Late Era Shuttle AFRSI & White Tile Decal Set, 1/72, 1/100 & 1/144 scale

**(STS-LAD-1-72 for 1/72 - \$50.00) (STS-LAD-1-100 for 1/100 – 40.00) (STS-LAD-1-144 for 1/144 - \$25.00)**

The 1/72 scale Late Era Shuttle AFRSI & White Tile Decal Set is being offered as an alternative to doing the Johnson & Johnson tape-based AFRSI Application Process.

You will still need to properly pre-paint the model with the proper base colors.

By combining the Standard Shuttle Tile Decal Set and the AFRSI & White Tile Decal Set, you can complete your model's Thermal Protection System.

To create these decals, I found documents published by USA (United Space Alliance), the former Shuttle processing contractor, which contained drawings of the port side of the Orbiter's forward section (hatch side), as well as the port side Mid-Body. I was also able to find a drawing of the vertical stabilizer, in a very low-grade of resolution.

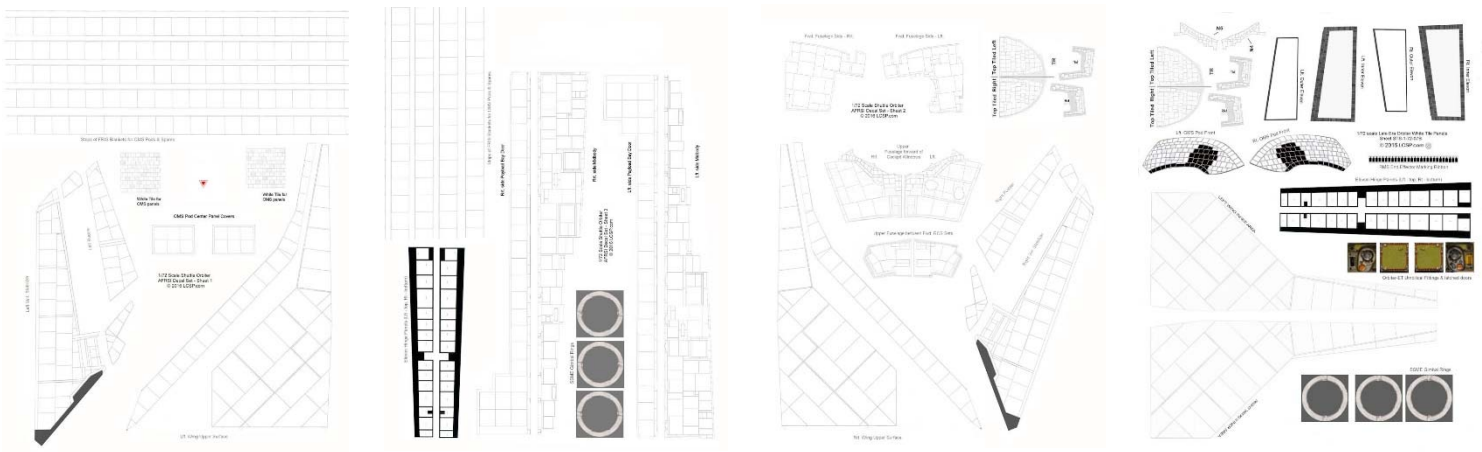
Using these drawings as "feed stock," I revised the original 1/72 scale white tile nose sections for the Shuttle Tile Decal Set, re-did the artwork for the vertical stabilizer, added "strip sections" of AFRSI for OMS Pod work and other "touch-ups," added the "still required" sections of the original Shuttle White Tile decals for the area around the cockpit windows, included a properly tiled front window "peak" decal and printed the whole set on Clear Decal Paper stock.

The set includes four full-size sheets which contain the following TPS areas:

- White Tiles for Crew Compartment Top & Side Surfaces (cockpit area top & behind windows))
- White Tiled OMS Pod front surfaces
- Forward Fuselage AFRSI Surfaces (forward for Cockpit to nose Black tiles)
- AFRSI for Mid-Body sides (below Payload Bay Doors)
- AFRSI for Payload Bay Door Lower surfaces (above door edge)
- AFRSI for Port & Starboard Inner Wing Upper Surfaces and AFRSI Panels behind the leading edges.
- AFRSI for Vertical Stabilizer Sides
- AFRSI for OMS Pod rear access panels
- Additional AFRSI strips for repairs and completion of the OMS Pod surfaces.

The Late Era AFRSI & White Tile Decal Set must be combined with the Standard Tile Decal Set in order to complete the overall TPS system for the specific early Orbiter you are modeling.

The 1/72 scale set comes with four sheets of specifically designed tile & AFRSI decals and a four-page instruction guide



## **Late Era Shuttle White Tile Decal Sheet, 1/72 scale (only)**

**(STS-LTD-1-72 - \$15.00)**

The Lake County Space Port Late Era Shuttle White Tile Decal Sheet is intended to be used in conjunction with the Johnson & Johnson Cloth Tape AFRSI Application Method.

The sheet includes the “white” Thermal Protection System (TPS) areas, and other special detail areas, which are needed for all late-era Space Shuttle Orbiters - OV-103 “Discovery,” OV-104 “Atlantis” and OV-105 “Endeavour.”

The set includes one full-size sheet which contain the following areas:

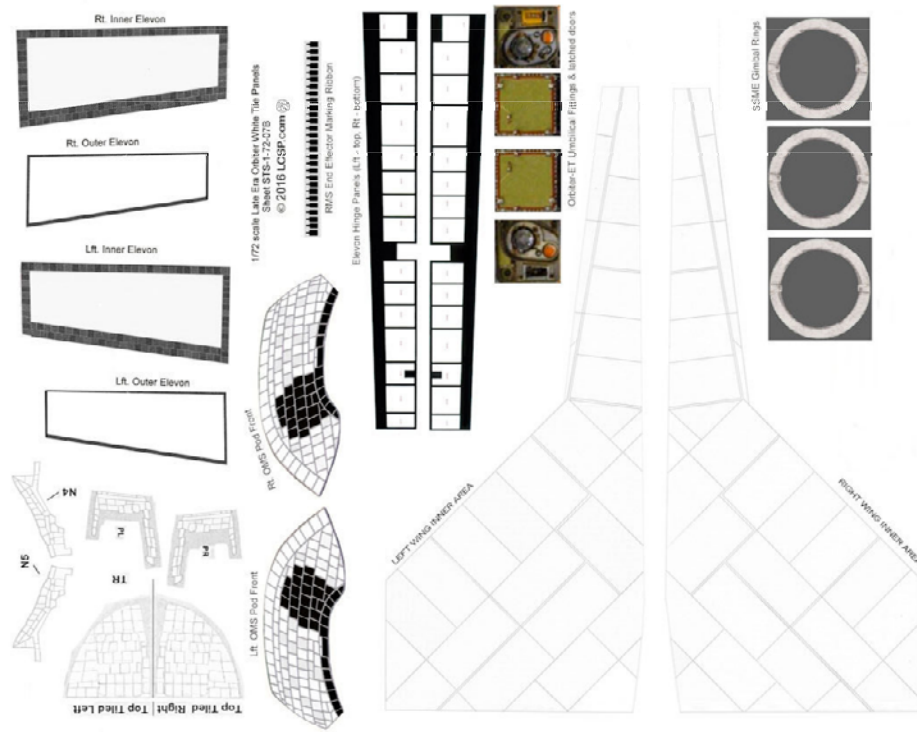
- White Tiles for Forward Fuselage & Crew Compartment (cockpit top, body areas behind and in front of cockpit windows)
- White & Black Tiled OMS Pod front surfaces
- Forward Fuselage Upper Surfaces (forward of Cockpit windows)
- Port & Starboard Wing Upper Surfaces
- Port & Starboard Wing Hinge Panels
- SSME Gimbal Seal Rings
- Orbiter/ET Umbilical Panels and Umbilical Door Interior Surfaces

The Late Era White Tile Decal Sheet must be combined with the 1/72 scale Shuttle Standard Tile Decal Set and the Johnson & Johnson tape-based AFRSI Application Process in order to complete the overall TPS system for the specific late-era Orbiter you are modelling.

The decal set is printed on Clear Decal Paper Stock.

All decals are printed using Clear Decal Stock, so proper pre-painting of the Orbiter must be done prior to applying the decals. Please read the decal set instructions for details.

LCSP recommends the use of the 1/72 scale AMP Shuttle Window Set for all high-resolution Orbiter models. Just Google "AMP Shuttle Windows" to find their website.



## Space Shuttle Orbiter Flexible Thermal Protection System Replication Process for 1/72 & 1/144 scale.

(SKU #STS-FTPS-PDF – FREE PDF Download from Website Store)

This is a concise guide on the Flexible Reusable Surface Insulation System (FRSI) process I created to do the FRSI "blanket" type thermal protection system on the last three Orbiter models I've built and profiled on my website – LakeCountySpacePort.com.

The guide provides the background of how the process began, tips on the creation and application of the surgical-tape-based "blanket" sections, and the maps I have created to provide the locations for the different sizes of FRSI blankets onto the surface of the Orbiter, based on both NASA and personally-shot photographic data.

While my original work was done in 1/72 scale, reducing the dimensions of the blanket components by 50% will allow the same process to be applied to 1/144 scale models of the Orbiter as well.

Click on the "\$00.00" price link below to start the FREE download of the Guide in PDF format. (Adobe Reader or Acrobat is required to use this file.)



## **Space Shuttle Payload Bay Detail Set - 1/72, 1/100 & 1/144 scale**

**(STS-PDS-1-72 for 1/72 - \$30.00) (STS-PDS-1-100 for 1/100 - \$25.00) (STS-PDS-1-144 for 1/144 - \$20.00)**

The Space Shuttle Payload Bay Detail set you are looking at are scaled to fit the components of the 1/72 scale Monogram/Revell Space Shuttle Orbiter models, either as the Orbiter alone or as part of the Monogram 1/72 Space Shuttle "stack."

The images used to create the applications were pulled together from hours of research into NASA photographs of Shuttle operations within the Orbiter Processing Facility during servicing and payload installation or removal.

This detail set does not provide the same elements as other Payload Bay "Upgrade" set previously sold by other modeling suppliers. It attempts to create a "photorealistic" interior surface to the Orbiter's Payload Bay.

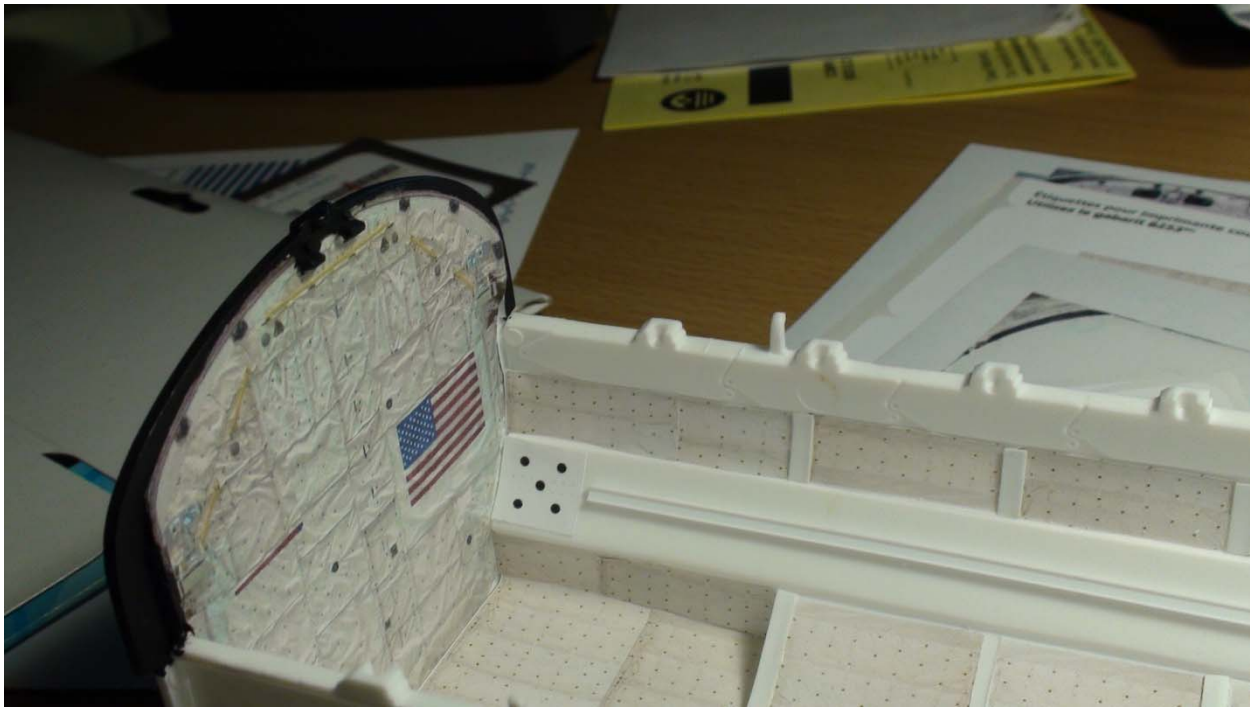
The set provides pressure-sensitive applications for the forward and aft bulkheads of the Payload Bay, applications for the Payload Bay Floor and Side Panels and applications for the aft end of the Bay's Wiring Chases, which are already molded into the floor element of the Monogram Model's Payload Bay.

These elements are printed onto the self-adhesive material and must be "trimmed down" using a sharp hobby knife, such as an X-Acto #11 knife blade, so this detail set is recommended only for experienced modelers.

The set also provides instructions on necessary additional items needed to do the job, tools needed, and proper installation of the applications and user provided plastic stock materials.

The photographs supplied provide an indication of how well the detail set works. These items were originally made for the two Monogram 1/72 scale Shuttle Orbiters I am currently working on.

We are very proud to offer these on our own website [LakeCountySpacePort.com](http://LakeCountySpacePort.com).



## Space Shuttle Detail Application Set – 1/72, 1/100 & 1/144 scale

**(STS-DAS-1-72 for 1/72 - \$30.00)**

**(STS-DAS-1-100 for 1/100 - \$25.00)**

**(STS-DAS-1-144 for 1/144 - \$20.00)**

The Space Shuttle Detail Application Set is a unique set of label-type applications designed to help make your spacecraft model more historically accurate. Each shuttle has unique tile arrangements and so you must research your photos online and offline in books to accurately depict the particular spacecraft you desire to do with the additional extra tiles included in this set.

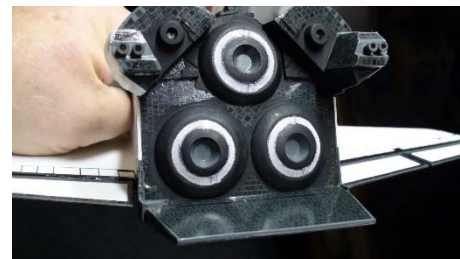
There are application elements for the following locations:

- The instrument panel surfaces of the Orbiter Flight Deck.
- The Intertank Service Access Panel and Gaseous Umbilical Carrier Plate fitting for the External Tank
- The Main Engine Gimbal Seal Rings for the Aft Bulkhead
- Orbiter/ET Umbilical Doors and Fittings
- Main Engine Close-Out Covers for the openings of the Space Shuttle Main Engines.

We also provide very small red rubber bands to replicate the draw cords used to hold the covers on the engine bells. These have been printed on white, self-adhesive label stock and must be carefully cut out for placement onto the model. As such, this set is only recommended for experienced scale modelers. All applications are printed on matte white label stock, with the exception of the three SSME close-out covers, which are printed on gloss white stock.

These elements must be "trimmed down" using a sharp hobby knife, such as an X-Acto #11 knife blade, so this detail set is recommended only for experienced modelers.

All of the applications can be seen in the 1/72 STS-134 "Endeavour" build page of [LakeCountySpacePort.com](http://LakeCountySpacePort.com), except for the SSME Close-Out Covers (shown here).



# 1/144 scale Revell International Space Station Detail Application Set

**(ISS-EDS-1-144 for label-based sets - \$70.00)**  
**(ISS-EDD-1-144 for decal-based sets - \$90.00)**

This application set comes with all of the printed panels indicated in these instructions, plus some spares in case you run into difficulties. The set includes:

- Main ISS Solar Array applications, front & back (16 each total – no spares)
- ATV Solar Array application, front & back (8 each total - 4 each needed)
- Russian Zvezda Module Solar Array applications (2 each total – no spares)
- Russian Zarya Module Solar Array applications (2 each total – no spares)
- JAXA Kibo Lab external pallet bottom surface application (2 total – 1 needed)
- JAXA Kibo Lab external module bottom surface applications (2 total – 1 needed)
- Unity and Tranquility Open Hatch Covers (4 total – no spares)
- Cupola window applications (6 wedge-shaped, 1 round – no spares)
- Module marking plate (some spares)
- “Dot” marker panel – (many spares)
- Soyuz/Progress Solar Panel Top panels (8 each – 2 spares)
- Soyuz/Progress Solar Panel Bottom panels (8 each – 2 spares)
- 10-page instruction manual

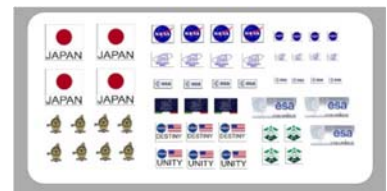
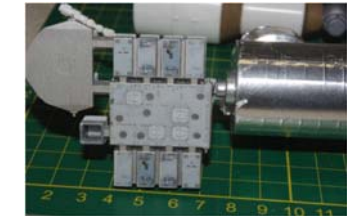
The concept of “photo-realistic” modeling, promoted by Edu-Craft Diversions and their incredibly elegant heavy-paper models, has stayed with me and became the genesis of many of the SpacePort’s product offerings. This one is no exception.

The patterns on the Revell Germany ISS main solar panels as supplied made painting by hand very time consuming, and does not yield the correct look for the panels as they exist on the Station.

We used NASA ISS photos to achieve the correct look. We found photos of the Main Solar Arrays and the Russian Solar Panels that provided graphic data to fabricate direct-application panels to do those jobs.

I also found other areas of “opportunity” where good photo detail data was available. These would add even more depth and detail to the finished model. There are also provided to you for your use, as tried and proven on my ISS model build. They are available in the original Avery label-stock printed version, or now on white water-slide decal paper printed versions, which cost more to produce.

The basic rules of use, as well as guidance on the rest of the model, is provided in a 10-page illustrate instruction manual, provided with the set.



## **1/92 scale Real Space Rockets** **Atlas V (AV422) & Boeing CST-100** **Launch Livery Decal Set**

**(RSR-AMD-1-92 - \$8.00)**

These Atlas “livery markings” are based on artwork done in 2016 by Boeing to show the CST-100-Centaur configuration, just after achieving orbit.

The markings are based on the actual set of program logos that are typically placed onto an Atlas V launch vehicle for each mission.

They usually depict the agency in charge of the flight (NASA, U.S. Air Force, NRO, etc.) the Atlas program insignia and the payload contractor (Boeing, in this case). In this case, the NASA Commercial Crew Program Office logo and the United Launch Alliance logo were added by the artist. As the Centaur stage tube wrap of the model already provides the U.S. Flag, we did not repeat it in our decal markings.

We have also provided the “Boeing Starliner” marking for placement onto the exterior of the CST-100 spacecraft, at the locations shown. Using the Boeing artwork on the right, we have also provided “updates” to the CST-100 paint scheme, in order to more accurately replicate spacecraft, according to the currently depicted Boeing artwork, and the detail provided on the model.



*“All LCSP.com products come directly out of our own modeling projects. They are tried, tested and proven in our work, along with the most detailed instructions we can write, to help you succeed in your work.”*



**Steven W. Jochums**

