## Launch Complex 39 - Shuttle Era Anno 1980



## Booklet 1 of 6

## The Fixed Service Structure, Base to Level 195

By Videomajk
Version 2

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## Introduction

This is a 1:110 scale Lego model of Nasa's Launch complex 39 from the Space Shuttle era, based on the look it had sometime around 1980. At this time, most of the fixed service structure was still painted red, the colour it had when it was still an Apollo Launch umbilical tower. There are well known details, like the orbital weather protection system, that still had not been added to the complex yet.

This model is designed with Andrew Harkins' Space Shuttle and Grant Passmore's Mobile Launch Platform (MLP) and Crawler Transporter in mind. These three models will fit perfectly together with this model.

The model consists of the Fixed Service Structure, the Rotating Service Structure, The WSC Tower and 9099 building, the Northern pipe bridge and the East access towers. Everything is placed on a base representing the top of the launch pad and flame trench.

The FSS is inspired by Nathan Readioff's LUT and the Hammerhead crane on top is his design, which he kindly let me use in this model.

The FSS and RSS was designed based on good drawings/blueprints and are quite accurate. For all the ancillary buildings I have been examining pictures and tried to match the look.

I hope you enjoy this model.

Mikael Lindberg

## Model information

Part count: 13672
Total lots: 576

| Width: | 115 studs | 92 cm | 36.2 inches |
| :--- | :--- | :--- | :--- |
| Length: | 144 studs | 115.2 cm | 45.4 inches |
| Height: | 122.2 studs | 97.8 cm | 38.5 inches |
| Weight: | 11782.8 g | 415.6 oz |  |

## Licence

These instructions are Donationware. The instructions are provided free of charge to individuals, for non-commercial use only. If you feel that the instructions adds value to you, donations can be made to the creator through PayPal, on the following link: https://www.paypal.me/videomajk

## Disclaimer

This is a very advanced build. It has never been built in real life by the time of release of these instructions. The creator of this model takes no responsibility for the buildability and stability of this model. If you choose to try and build this model based on these instructions, you do so at your own risk. Carefully study the instructions and the accompanying .io file before ordering parts and starting to build. Sourcing all the needed Lego parts for this model will be expensive.






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$3 x$


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## 41







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21 of 234



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25 of 234


26 of 234

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27 of 234


28 of 234


29 of 234


30 of 234

## 77 <br> 8 16 x



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124


125


## 126 <br> 1 x

127

| $2 x$ | $1 x$ |
| :--- | :--- |




131


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132


133


134


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## 135



137


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48 of 234


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149


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152


51 of 234

153
$1 x 1 x$


154


52 of 234

156


157


158


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## 160 <br> $\square$



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$\overline{167}$


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## 187




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## 193



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## 211



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## 230



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## 261



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## 276 <br> 



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## 282



283


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286


287


97 of 234


289
8 x


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292


293


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295


296


100 of 234

## 297



298


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302


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## 317



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## 323



324


These three rings are from the Rotating Service Structure's lower hinge. Leave them unconected around the hinge column at this step.


325


326


327


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334


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114 of 234


## 338 <br> $\square$



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## 347 <br> 



## 348



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384



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394



2x
396


| 1 | 2 |
| :--- | :--- |



398


399



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## 419



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429


430


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457 29
$1 x$


## 458



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473


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FSS - Level 175

475



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## 479



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500


## 501



502


503


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506


507
$7 x$


508


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509


510


511


512


513


514


515


517



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521


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$535$






$551$


553


554


185 of 234

555


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557


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559

560


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564


566


567


569


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## 571 <br> 



572


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$574 \quad$| $4 x$ |
| :---: |



575


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578


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579


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581


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582


584


195 of 234

585 $\square$
1 x


587


588


590


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## 591 <br> 



593


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595


596


597


599


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## 639 <br> 



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650


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677



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682


683


684


685


686



688


689


230 of 234


5x



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## $700$



