

VAB MODS

Version 01 25/10/2023

This list of modifications associated with file **VAB_PG_V01_231025_Inst.pdf** provide extra detail to the Lego Vehicle Assembly Building, Launch Control Center and Saturn V model.

Paul Galea

T-8750

MOD-01 Grass

This modification adds additional grass area at the rear of the Launch Control Center (LCC). It requires substituting parts from original build and modifying parts.

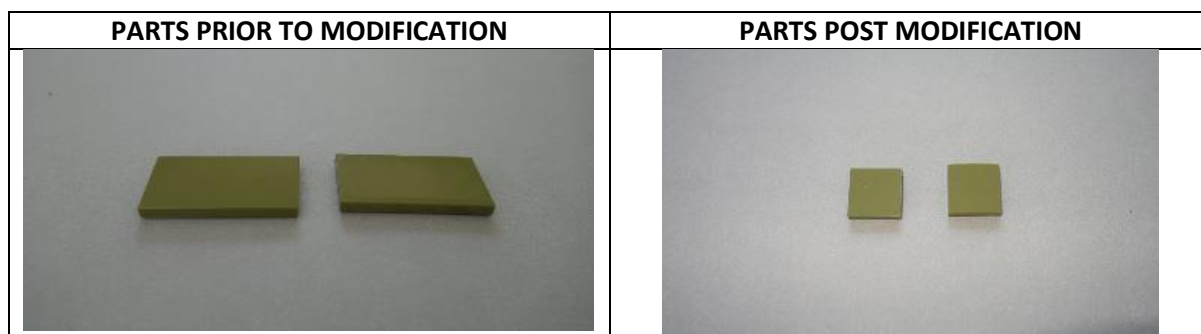
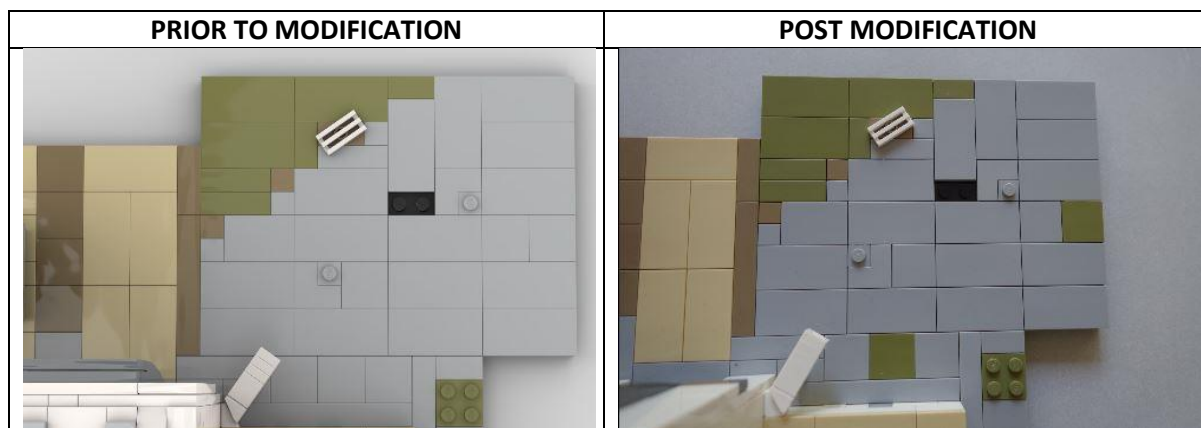
Original parts no longer required:

| Step | Slide | Qty | Part Num | Colour | Description |
|------|-------|-----|----------|--------|-----------------------|
| 4 | 8 | x1 | 3068b | LBG | Title 2x2 with Groove |
| 6 | 10 | x1 | 3068b | LBG | Title 2x2 with Groove |

New Parts required:

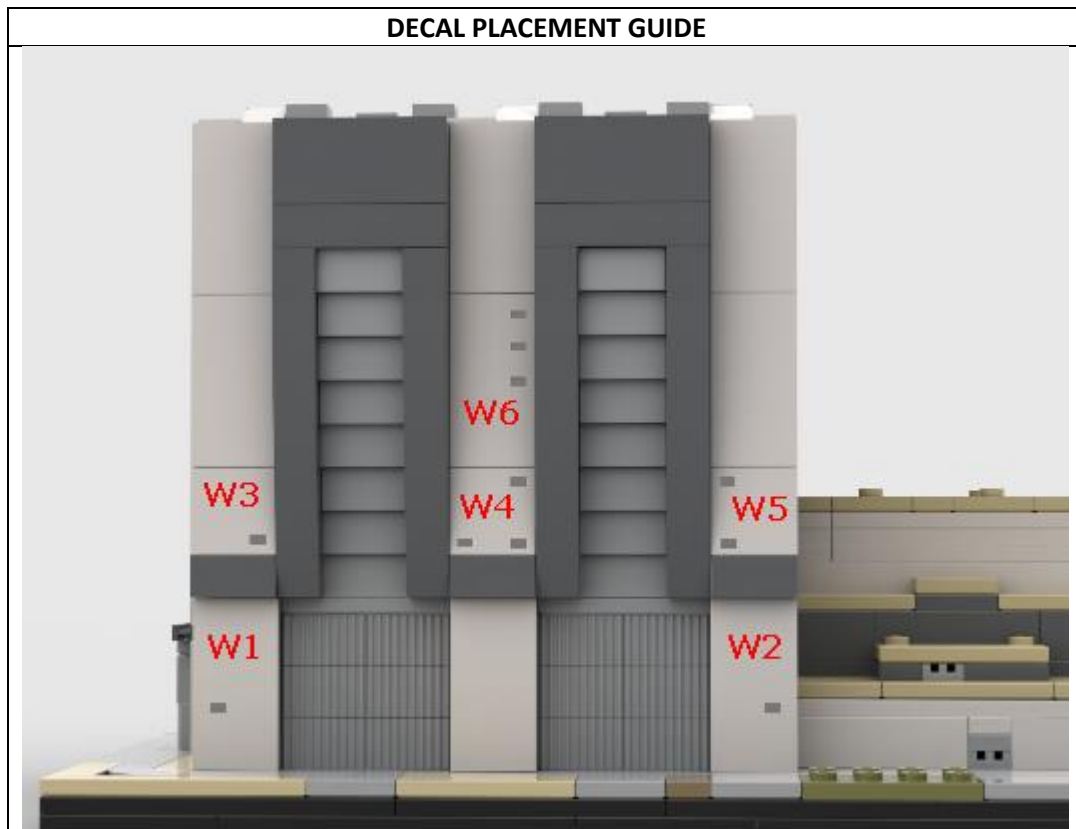
| Qty | Part Num | Colour | Description |
|-----|----------|----------|-------------|
| x2 | 87079 | Olive Gr | Title 2x4 |

Cut, file and sand 2x4 tile to shape of 2x2 tile.



MOD-02 VAB HB West

Decals to add to High Bay West side to enhance detail. Refer to sticker sheet on page 10.

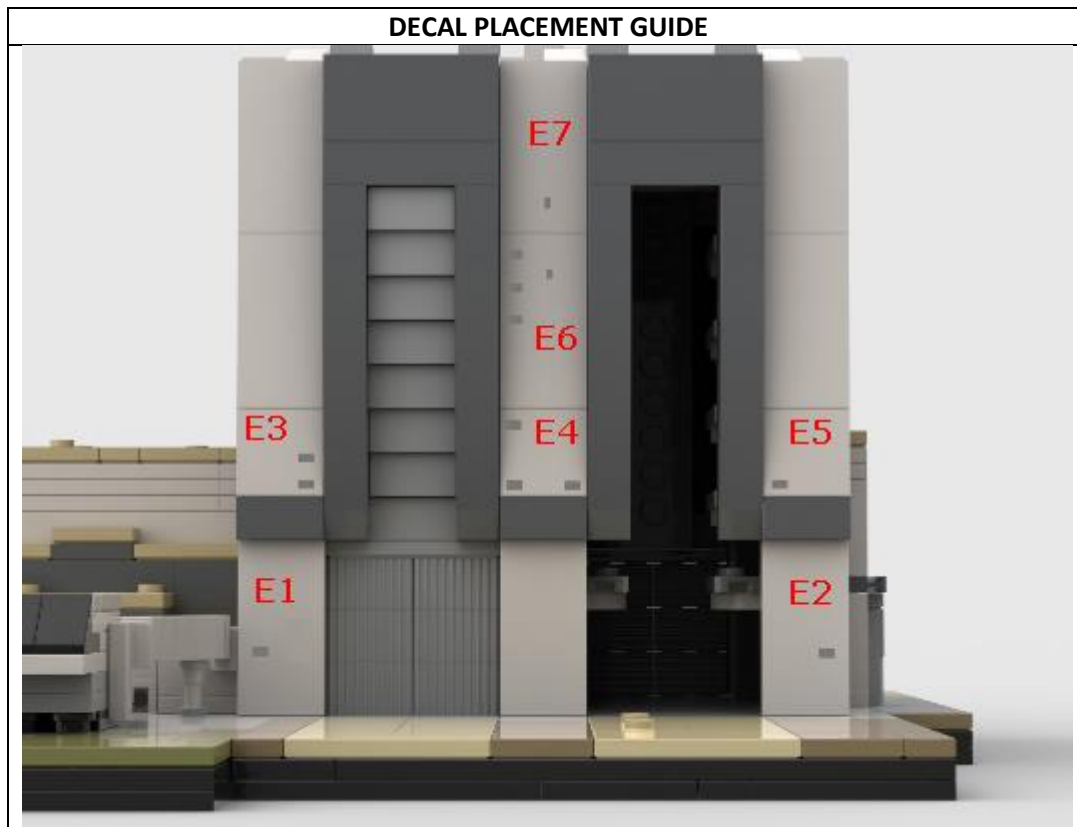


W1, 2 & 6 placed on Tile, 2x4, White, item number 87079.

W3, 4 & 5 placed on Tile, 2x2, White, item number 3068b.

MOD-03 VAB HB East

Stickers/Decals to add to High Bay East side to enhance detail. Refer to sticker sheet on page 10.



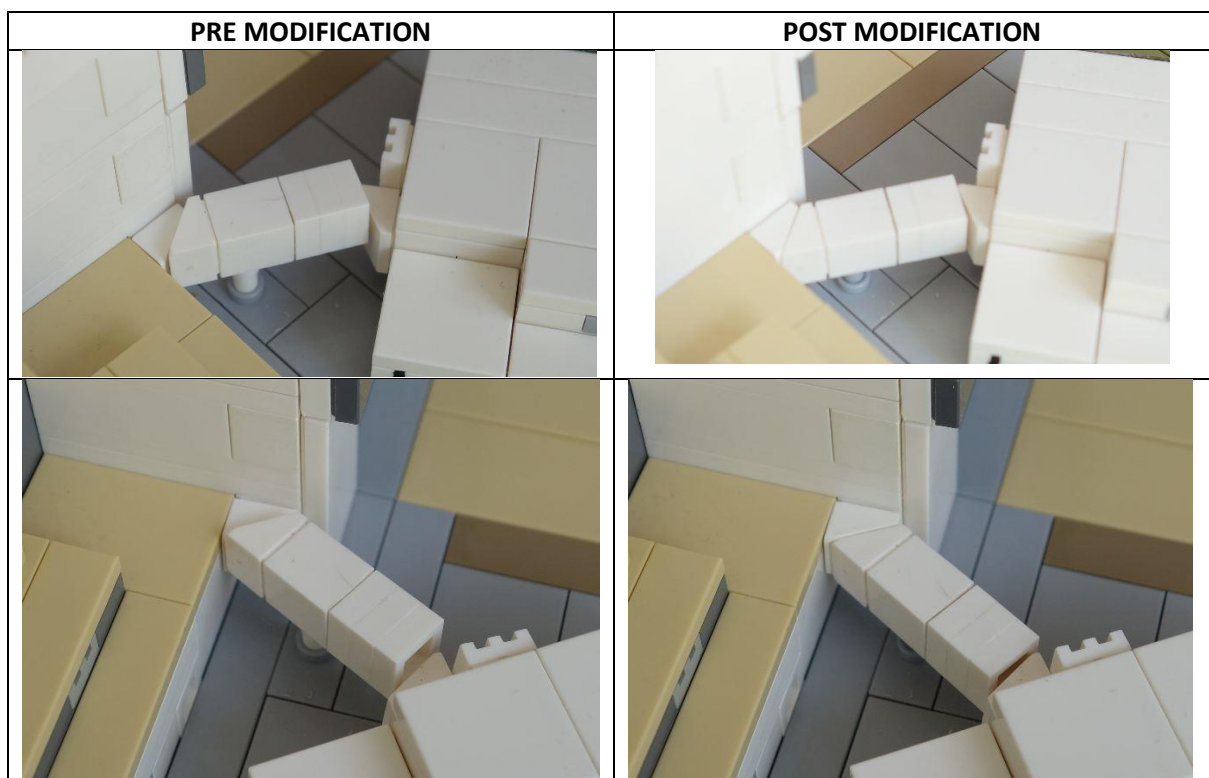
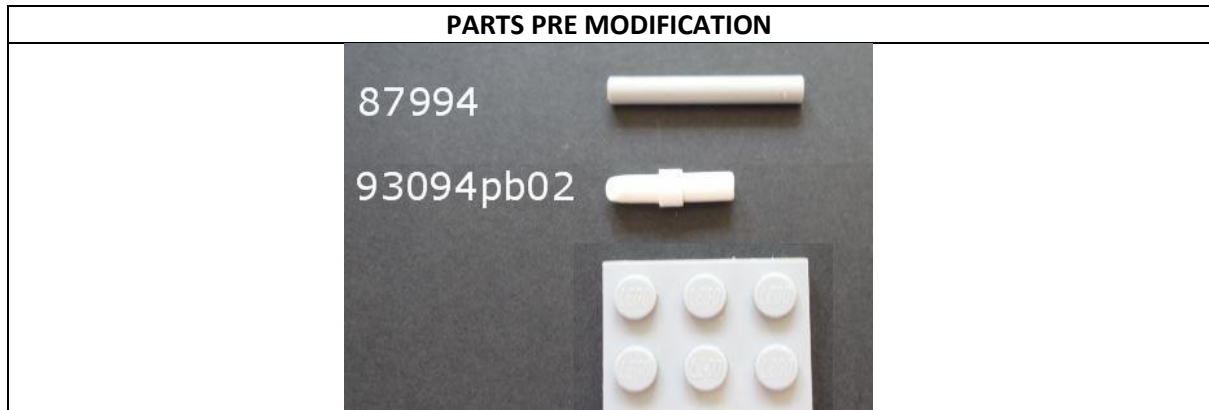
E2: As the doors are open for High Bay 3 it should conceal the window (E2), only include E2 if doors are closed.

W1, 2, 6 & 7 placed on Tile, 2x4, White, item number 87079.

W3, 4 & 5 placed on Tile, 2x2, White, item number 3068b.

MOD-04 LCC ElevWalkWay

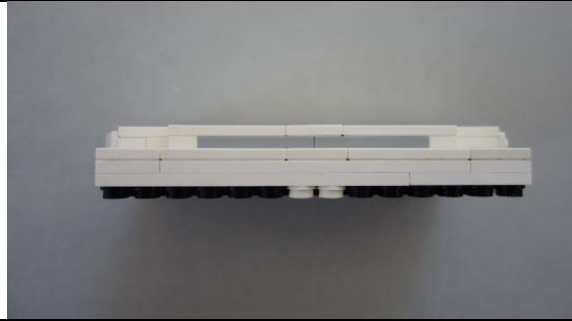
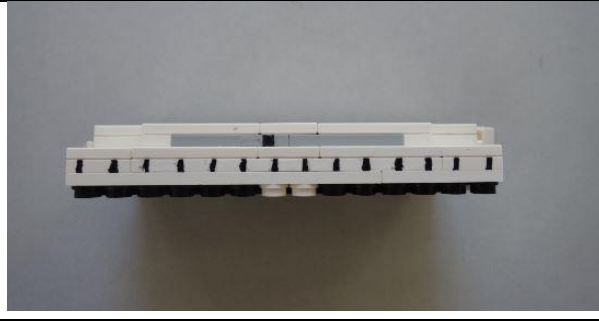
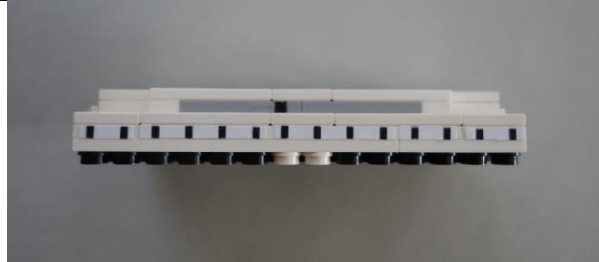
Original pillar for elevated walkway (Minifigure, Utensil Lipstick 93094pb02) elevates walkway about 2 mm to high. Height can be adjusted by sanding part to correct height. Alternatively part Bar 3L (87994), white can be used as it provides a more secure fit, it will also have to be sanded to the correct length.



MOD-05 LCC Rear

This modification delivers a much more accurate looking Launch Control Center (LCC). It captures windows and a door at the rear of the LCC. The LCC is 14 studs wide and there are 14 windows allocated along the rear width of the LCC, so the studs can be used as guides for window placement,

I initially attempted painting windows but could not achieve straight lines and fell back to using stickers. Windows provided in groups of 4 to assist with alignment with studs. Refer to sticker sheet on page 10.

| PRIOR TO MODIFICATION | POST MODIFICATION 2 nd attempt at painting, it failed! |
|---|--|
|  A photograph of the rear of a white LEGO Launch Control Center (LCC) before modification. It shows a plain white surface with no windows or doors. |  A photograph of the rear of the LCC after a second attempt at painting windows. The windows are visible but appear slightly irregular and not perfectly aligned. |
| | POST MODIFICATION Best result using stickers |
| |  A photograph of the rear of the LCC after applying stickers for windows. The windows are perfectly straight and aligned with the studs. |

MOD-06 LCC Front

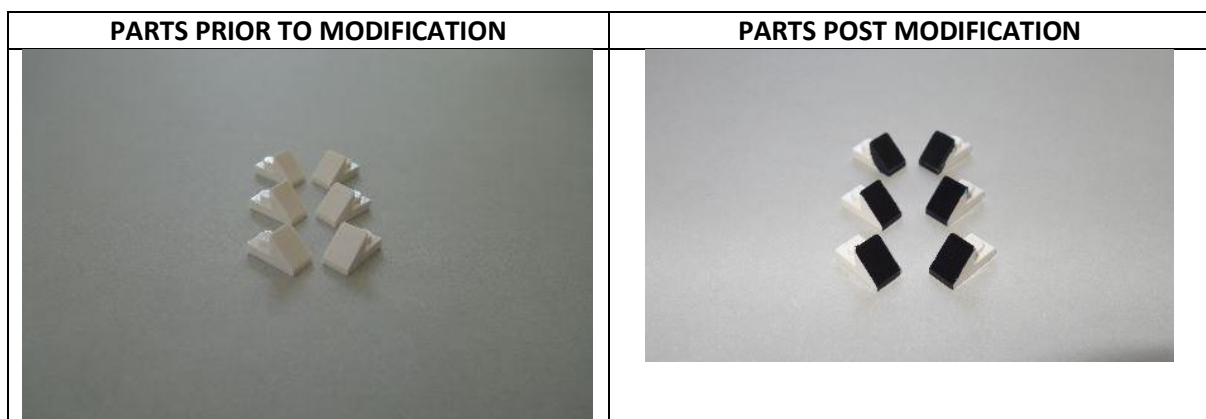
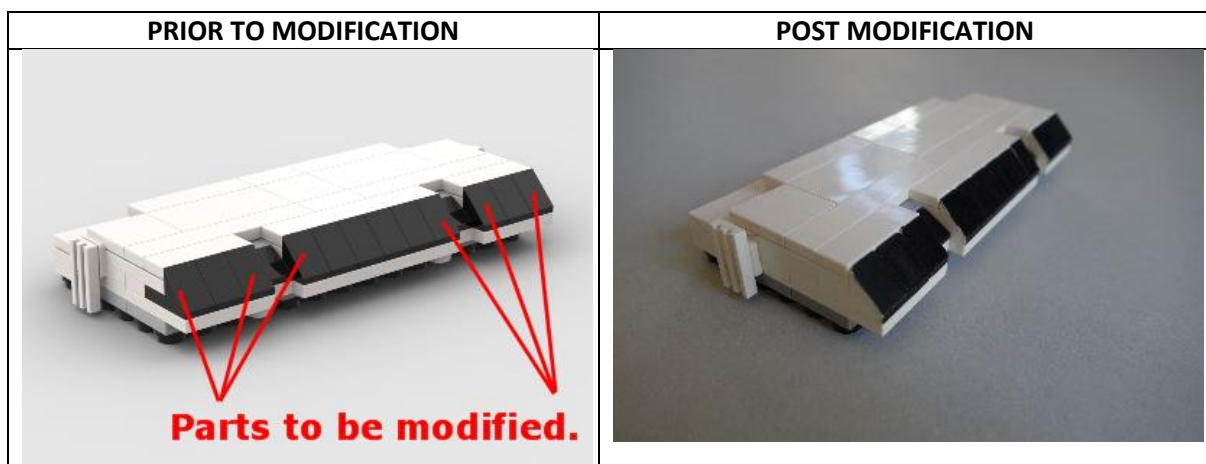
This modification delivers a much more accurate looking Launch Control Center. Better results are always obtained painting white pieces black as opposed to painting black pieces white.

Original parts no longer required:

| Step | Slide | Qty | Part Num | Colour | Description |
|------|-------|-----|----------|--------|--|
| 101 | 96 | x6 | 92946 | Black | Slope 45 2x1 with 2/3 Cut out x 1.2 Stud |

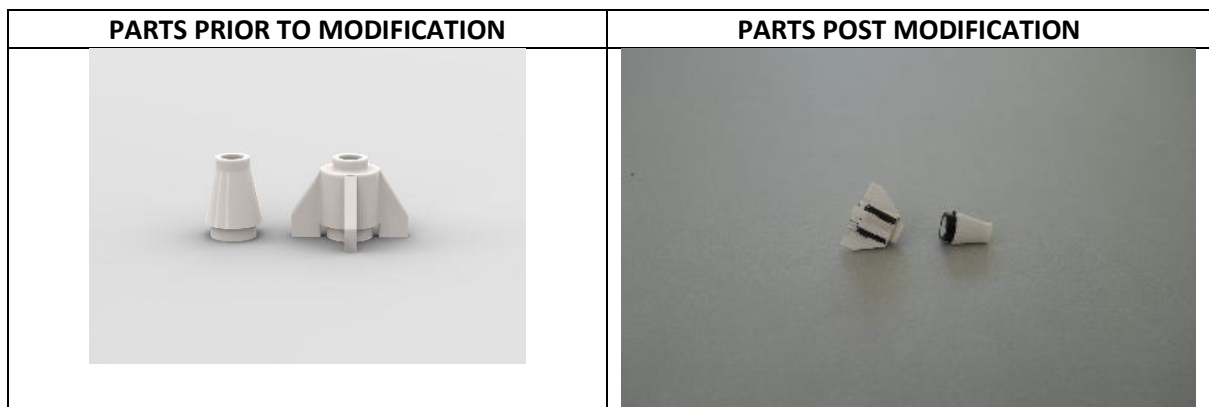
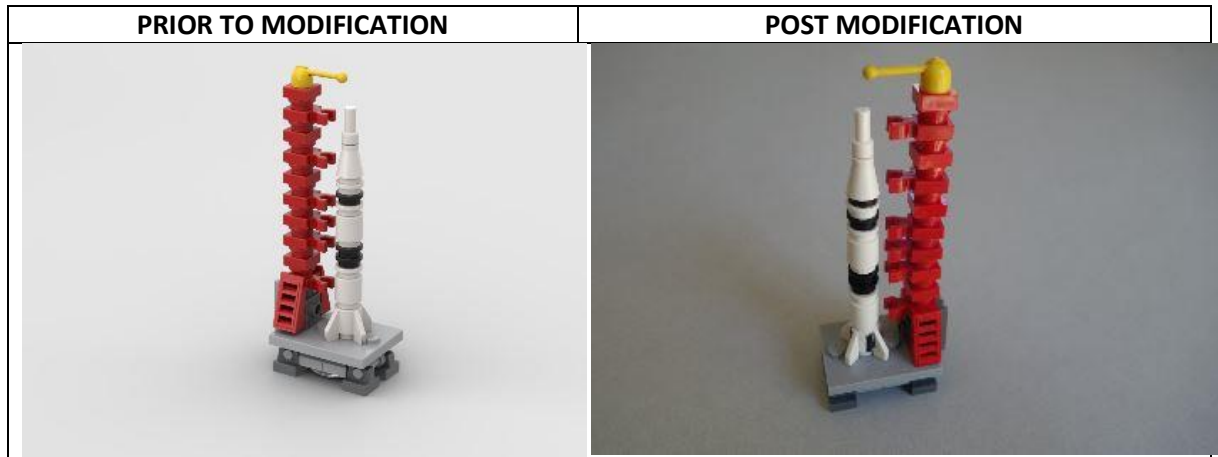
New Parts required:

| Qty | Part Num | Colour | Description |
|-----|----------|--------|--|
| x6 | 92946 | White | Slope 45 2x1 with 2/3 Cut out x 1.2 Stud |



MOD-07 Saturn V

This modification requires painting existing white parts black. It provides a closer approximation to the Saturn V as it captures the distinctive four bands of black. For best results wash parts in soapy water to remove all grease or oil from finger prints. Allow to dry and avoid touching area to be painted. Care in masking is required in the fin area, take your time.



MOD-08 Grass

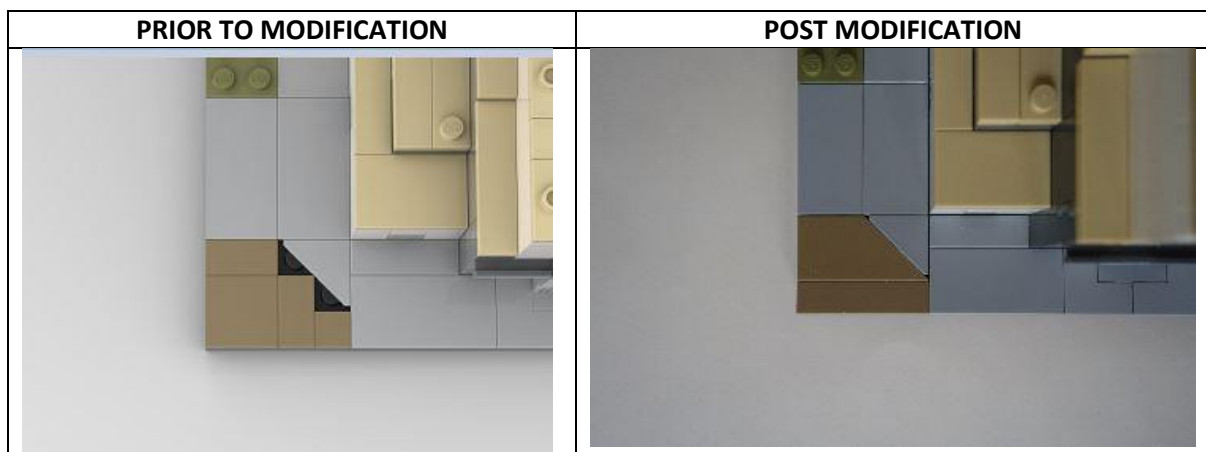
This modification adjusts existing soil area to provide a more consistent area. It requires substituting parts from original build and modifying part. Cut, file and sand 2x4 tile to appropriate shape as shown.

Original parts no longer required:

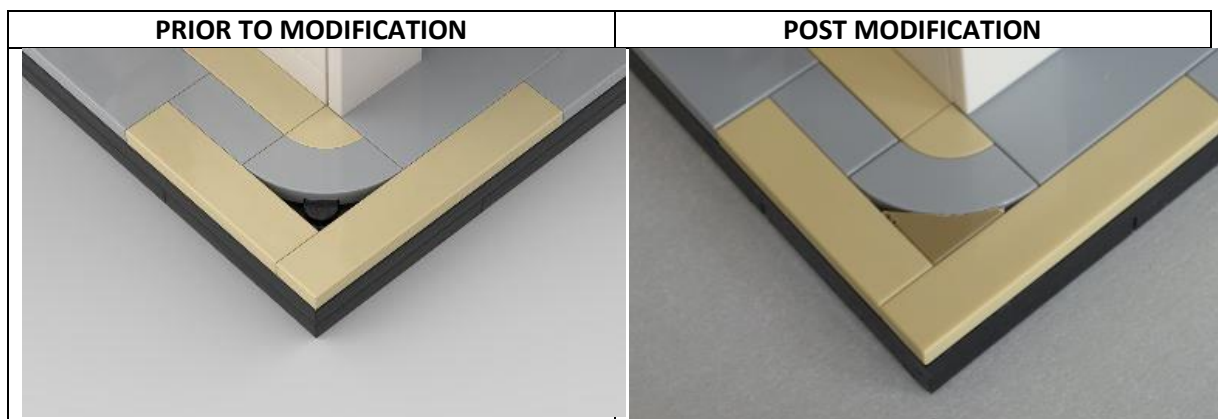
| Step | Slide | Qty | Part Num | Colour | Description |
|------|-------|-----|----------|----------|----------------------------|
| 115 | 107 | x1 | 3068b | Dark Tan | Title 2x2 with Groove Stud |
| 115 | 107 | x2 | 3069b | Dark Tan | Title 1x2 with Groove Stud |
| 115 | 107 | x1 | 3070b | Dark Tan | Title 1x1 with Groove Stud |

New Parts required:

| Qty | Part Num | Colour | Description |
|-----|----------|----------|-------------|
| x1 | 2431 | Dark Tan | Title 1x4 |
| x1 | 87079 | Dark Tan | Title 2x4 |

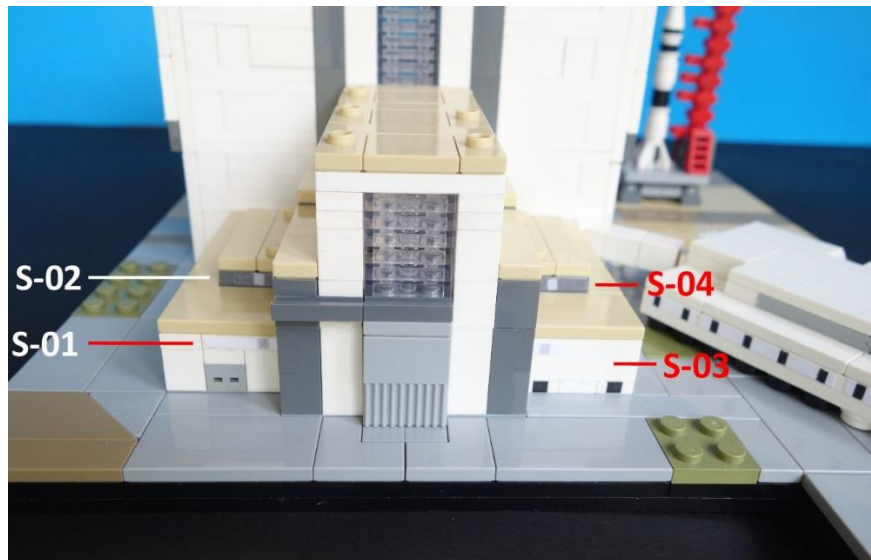


Bonus Mod, the remaining off cut can be shaped to fit into this corner:



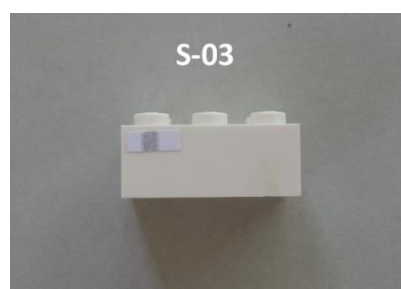
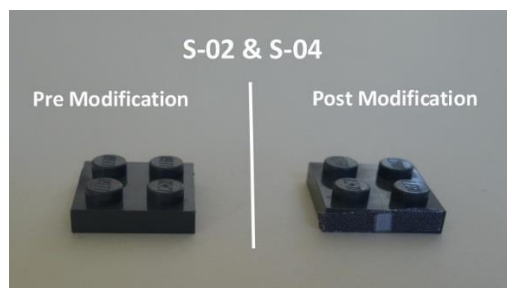
MOD-09 VAB South Side Windows

This modification adds small windows into South side of VAB. Four stickers\decals are applied in this modification. Refer to sticker sheet on page 10.



Parts requiring stickers:

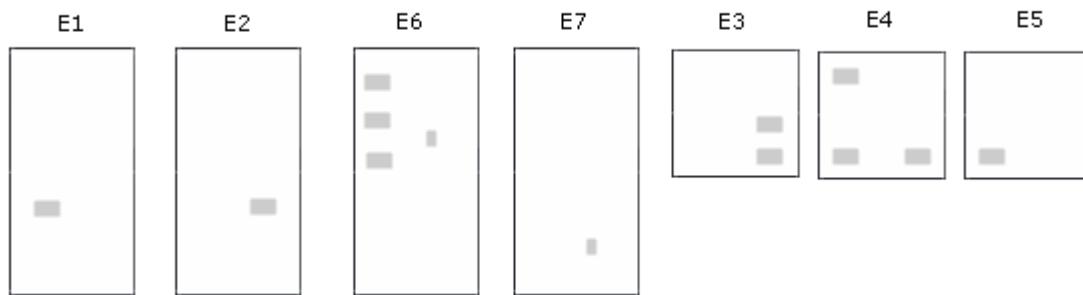
| Step | Slide | Mod No | Part Num | Colour | Description |
|------|-------|--------|----------|--------|-------------|
| 37 | 41 | S-01 | 3034 | White | Plate, 2x8 |
| 38 | 42 | S-02 | 3022 | DBG | Plate, 2x2 |
| 42 | 46 | S-03 | 3002 | White | Brick, 2x3 |
| 43 | 47 | S-04 | 3022 | DBG | Plate, 2x2 |



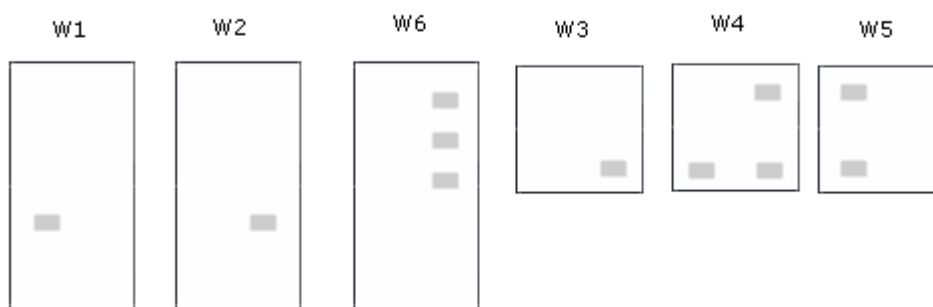
STICKER SHEET

MOD-02 & 03

VAB High Bay East side



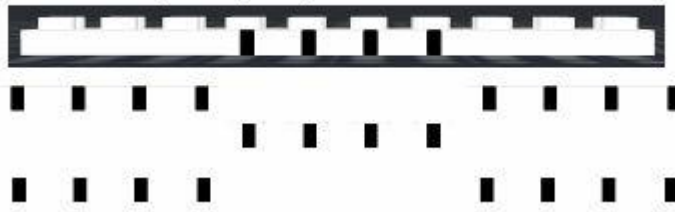
VAB High Bay West side



MOD-05

LCC Rear Windows

14 windows required, align window with center of stud.

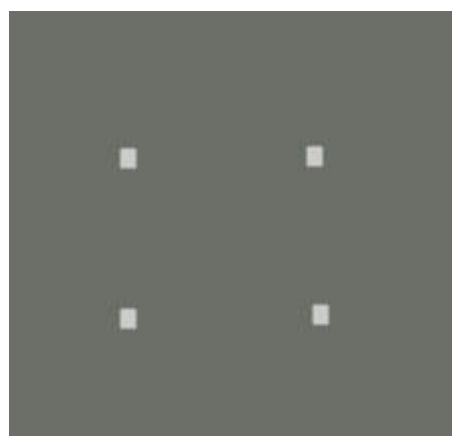


MOD-09

S-01 & 03



S-02 & 04



The final rollout of a Saturn V from the VAB was on 16th April 1973 for Skylab. The US flag and star logo was painted on the VAB in 1976 as part of the US Bicentennial celebrations. The star was replaced by the NASA meatball in 1998.

I have included these as you may want to include in the model even though they were not present during the Apollo era, after all let's be honest, it certainly adds a certain amount of WOW factor! ☺



Reference Photos

All photos taken in Apollo era.

