

		MODEL Z & Z-AIR AFTER MARKET SOLAR PANEL INSTALLATION INSTRUCTIONS			4 3 2 1 0 Difficulty Level	
WI:		WI-028-2025 Model Z and Z-Air Aftermarket Solar Panel Installation				
PRODUCT:		Model Z and Z-Air (All Floor Plans)	VIN Range:	000001 - Current	REVISION:	REV-D
DATE:		August 11, 2026	LABOR RATE:	Aftermarket Installation		

Applies to:

In certain models and floor plans, Brinkley RV offers an optional Solar Panel kit that can be installed on the roof of the unit. These units are prepped for one (1) additional solar panel to be installed, but will only come from the factory with one solar panel installed. Brinkley owners can have this popular option installed at their expense. The following are detailed instructions for installation of the Aftermarket Solar Panel Kit for all Floor Plans of the Model Z Fifth Wheel and the Model Z-Air Travel Trailer.

NOTE: There are two different kits depending on the VIN Range of your unit. Please refer to the parts information on the next page for the kit that is applicable to your unit. Confirm the correct kit with Brinkley Customer Care before ordering.

NOTE: If your specific floor plan is not shown in the floor plan prints, please contact Brinkley Customer Care for that information.

Safety:

Safety is and should always be observed when performing any type of repair. ANSI (American National Standards Institute) has created a standardized labeling system for different levels of safety and danger. The label below provides information regarding those levels of danger, and should be observed and adhered to at all times.

⚠ CAUTION

The “CAUTION” symbol above is a sign that a procedure has a safety risk involved and may cause personal injury, product, and/or property damage if not performed safely and within the parameters set forth in this document.

RESOURCES REQUIRED (not provided):

1. Screw Gun/Power Drill
2. #2 Square Drive Bit
3. Tape Measure
4. Screw gun socket adapter
5. 1/2" socket (Furrion), 10mm Socket (Rich Solar)
6. Caulk Gun
7. Wire cutters
8. Electric Multimeter with probes
9. Ladder
10. Utility Snips
11. 10mm Wrench (Rich Solar) (not pictured)
12. 6" Cable Ties (not pictured)
13. Pen/Pencil (not pictured)
14. Safety glasses/Goggles (not pictured)
15. Gloves (not pictured)



PARTS INFORMATION

#K107672 Furrion Solar Panel Kit Model Z And Z Air: VIN Range Model Z: 000001 - 013573 | Model Z AIR: 000001 - 013673

Part #	Description	Qty
100237	SOLAR PANEL 370W BLACK RIGID MONO CRYSTALLINE GEN 2 (FURRIION)	1
103260	CABLE 84" SOLAR WIRE JUMPER	2
101609	BRACKET KIT BLACK SOLAR PANEL 6X L-MOUNT W/BOLT AND WASHER	1
100090	SEALANT ROOF 5121 ALPHATHANE WHITE SELF-LEVEL TUBE	2
101832	SOLAR Y BRANCH 30A 12" ADAPTER CONNECTORS 2 TO 1 RICH SOLAR (SET OF 2)	1
113822	1/32" x 3/4" GRAY MYLAR BACKED	2 LF
101328	FASTENER SCREW 10 X 1 1/4 2000 BLACK PAN QUAD TYPE A	20
104035	SOLAR FUSE 15A W/IN LINE 15A FUSE HOLDER RS-SC15F	2
109801	WI-028-2025 WORK INSTRUCTIONS	1

#K132669 Rich Solar Panel Kit Model Z And Z Air: VIN Range Model Z: 013574 - Current | Model Z AIR: 013674 – CURRENT

Part #	Description	Qty
132815	SOLAR PANEL 370W BLACK (RICH SOLAR)	1
132816	HARDWARE MOUNTING BRACKET 2" BLACK SET OF 4 FOR RS-M370PB	1
103260	CABLE 84" SOLAR WIRE JUMPER	2
120626	SEALANT WHITE 10.3 OZ ULTRA SEAL SELF LEVEL	1
101832	SOLAR Y BRANCH 30A 12" ADAPTER CONNECTORS 2 TO 1 RICH SOLAR (SET OF 2)	1
113822	1/32" x 3/4" GRAY MYLAR BACKED	2 LF
104035	SOLAR FUSE 15A W/IN LINE 15A FUSE HOLDER RS-SC15F	2
101328	FASTENER SCREW 10 X 1 1/4 2000 BLACK PAN QUAD TYPE A	10
109801	WI-028-2025 WORK INSTRUCTIONS	1

⚠ CAUTION

Always wear Personal Protection Equipment (PPE), such as eye protection, ear protection, gloves, and possibly a full face shield depending on the nature of the task to be performed.

⚠ CAUTION

You will be working on the roof of a unit. Make sure to follow all safety protocols associated with working off the ground. Wear non-slip shoes, and use a fall protection harness if available.

WORK INSTRUCTIONS:

NOTE: READ AND UNDERSTAND ALL INSTRUCTIONS PRIOR TO BEGINNING WORK.

NOTE: All images in this instruction are to illustrate the process. Your specific unit may vary slightly, but the process remains the same.

1. Prepare the solar panel(s) for installation by attaching the mounting brackets to the flange on the backside of the solar panel.

FURRIION MOUNTING BRACKETS:

- Open the Solar Panel Mounting Hardware Kit bag (P/N 101609). Inside you should find twelve (12) bolts, twelve (12) lock washers, twelve (12) flat washers, and six (6) L-shaped mounting brackets.
- Align the slotted holes of L-bracket (Figure 1A) with the threaded holes on the side of the solar panel (Figure 1B).



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- Place a lock washer (Figure 2A) and a flat washer (figure 2B) on a bolt (Figure 2C), and then, insert the bolt through the slotted hole in the L-Bracket, and thread the bolt into threaded hole in the solar panel until hand tight.
- Using a screw gun, socket adapter, and a 1/2" socket, secure the mounting bracket (Figure 2D) to the solar panel (Figure 2E) so that slotted holes in the mounting bracket are at their farthest travel (Figure 2).

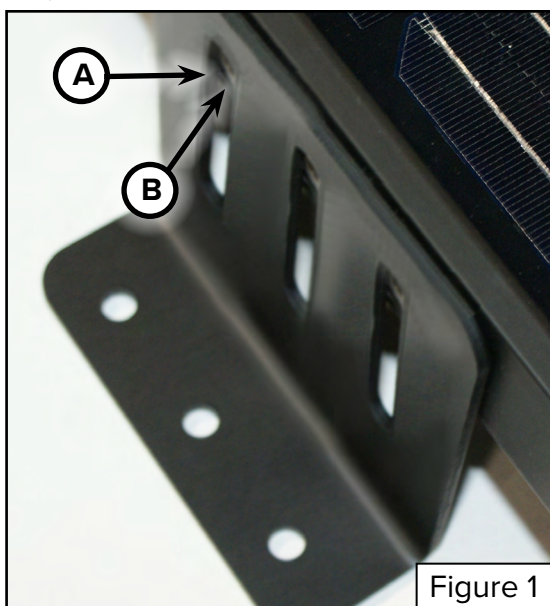


Figure 1

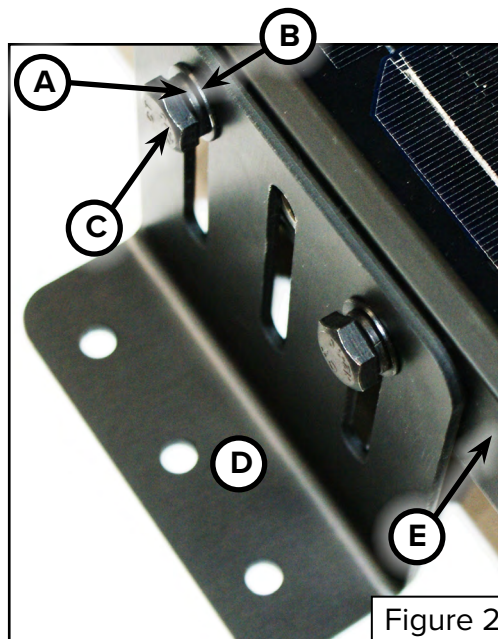


Figure 2

RICH SOLAR MOUNTING BRACKETS:

- Open the Hardware Kit Box (P/N 132816). Inside you should find four (4) bolts, eight (8) flat washers, eight (8) nuts, *eight (8) self-tapping screws with flat washers on them (DO NOT USE for this installation, discard these screws)*, and four (4) Z-shaped mounting brackets.
- Align the slot in the mounting bracket (Figure 3A) with the hole in the back of the panel (Figure 3B).
- Slide one of the flat washers (Figure 4A) onto the bolt (Figure 4B), then slide the bolt through the hole in the solar panel and the slot in the mounting bracket.
- Slide another of the flat washers onto the end of the bolt (Figure 5A), and then hand tighten one of the nuts onto the end of the bolt (Figure 5B). Use the 10mm socket and 10mm wrench to snugly tighten the nut and bolt to secure the mounting bracket to the panel.

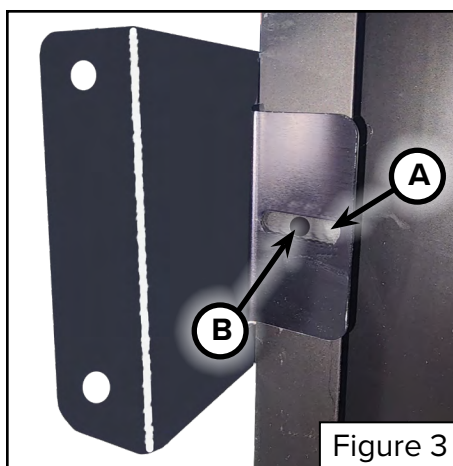


Figure 3

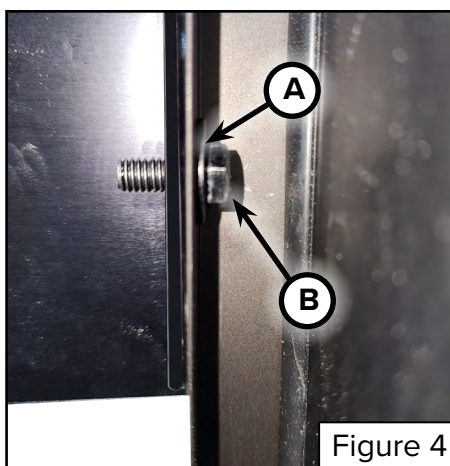


Figure 4

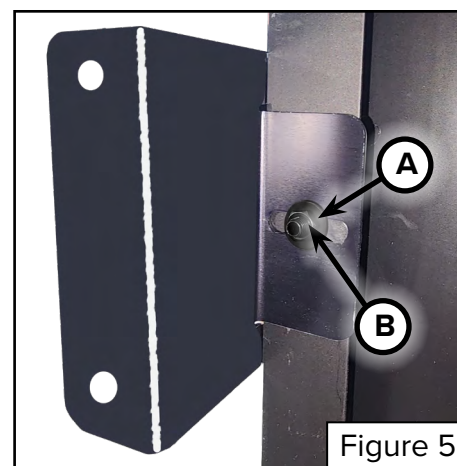


Figure 5

2. Apply a strip of 3/4" x 0.125" butyl tape (P/N 113822) (Figure 6A) to the face of the mounting bracket that will contact the roof membrane (Figure 7A). Make sure the butyl tape covers all screw holes (Figure 4).
3. Repeat these steps for each other mounting bracket on the solar panel.

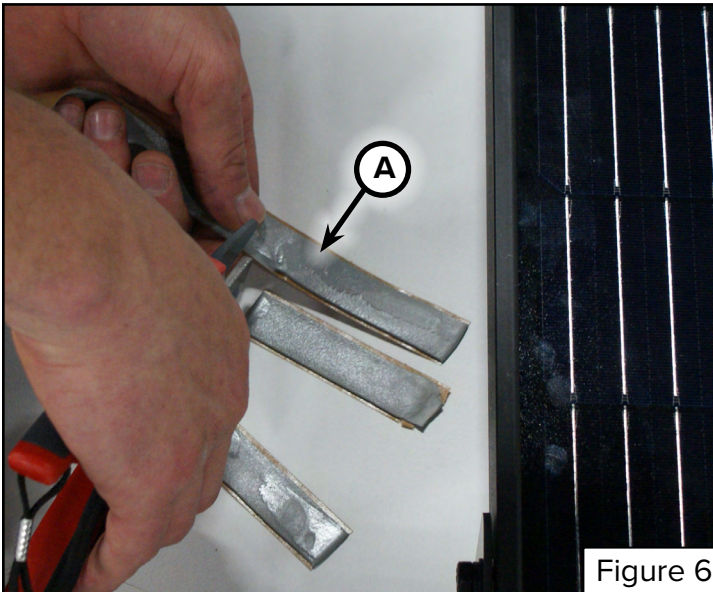


Figure 6

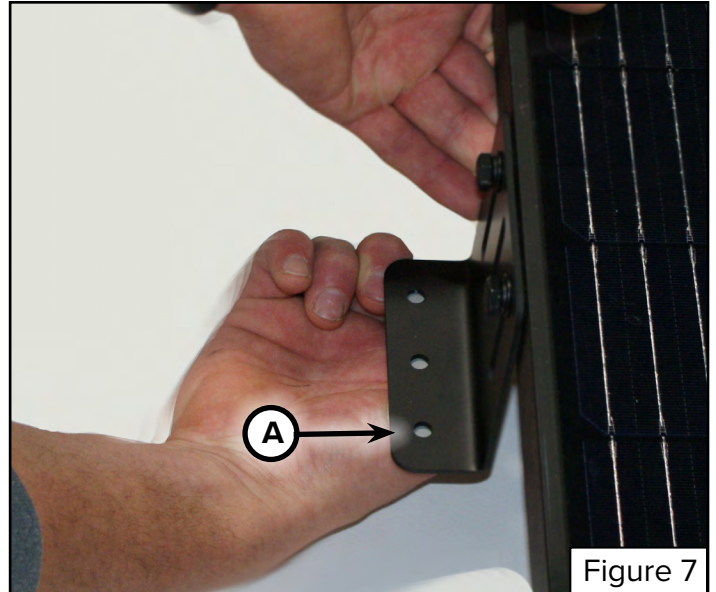


Figure 7

4. Using wire cutters, cut the wire tie holding the wiring on the backside of the solar panel.
5. Refer to the roof print for your floor plan (Appendix 1.1). Backer locations in the roof are marked on each print. **NOTE: The applicable VINs are listed below each print.**
6. Using a tape measure, layout and mark the locations of the backers for your floor plan (Figure 8A).
7. Dry fit the solar panel (P/N 100237 or 132815) to make sure that the bracket mounting holes line up with where the backers in the roof are located (Figure 9A). Align the mounting brackets with the marked backer locations on the roof (Figure 9B). Make sure the wiring is out from underneath the solar panel.

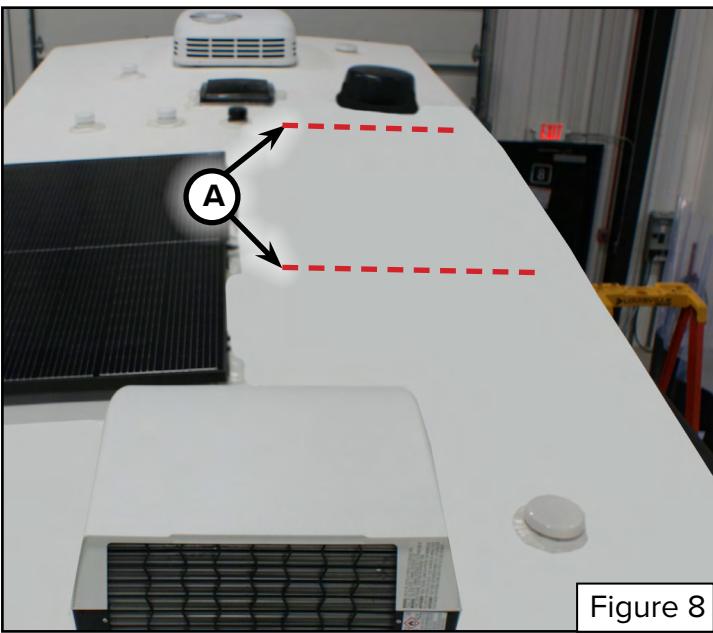


Figure 8

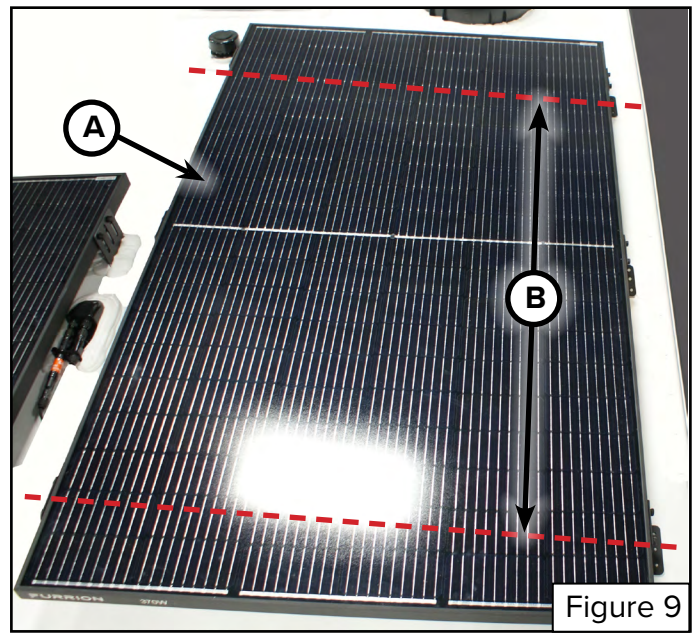


Figure 9

8. Using a screw gun and a #2 Square drive bit, install the solar panel to the roof by installing the black pan head screws (P/N 101328) through the mounting brackets and into the roof backers (Figure 10) (**FURRION**: three [3] screws per mounting bracket, Figure 11a; **RICH SOLAR**: two (2) screws per mounting bracket, Figure 11b).

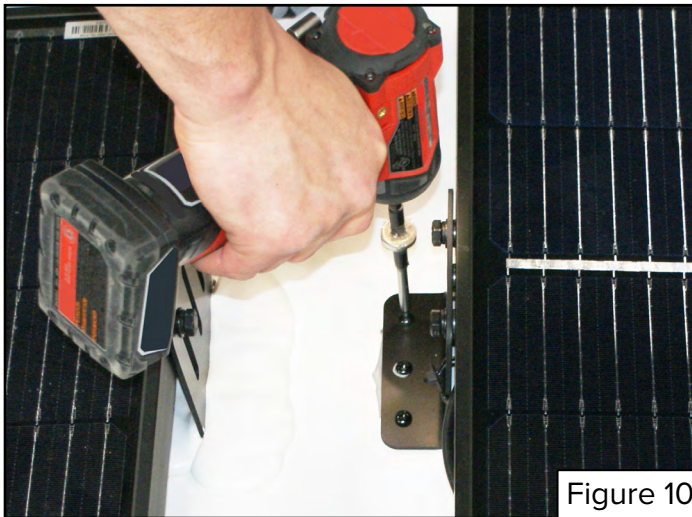


Figure 10



Figure 11a



Figure 11b

9. Connect the solar panel wiring per the wiring diagram (Figure 12) using the Solar Y Branch Connectors (P/N 101832) (Figure 12A), the 15A Solar Fuses (P/N 104035) (Figure 12D), and (if necessary) the Solar Wire Jumper cables (P/N 103260) (Figure 12B). Depending on the location of the solar panels and the Roof Junction box (Figure 12C), you may not need jumper cables. If there is a 15A fuse installed in the current wiring, remove it, and use the new fuses provided in the kit.

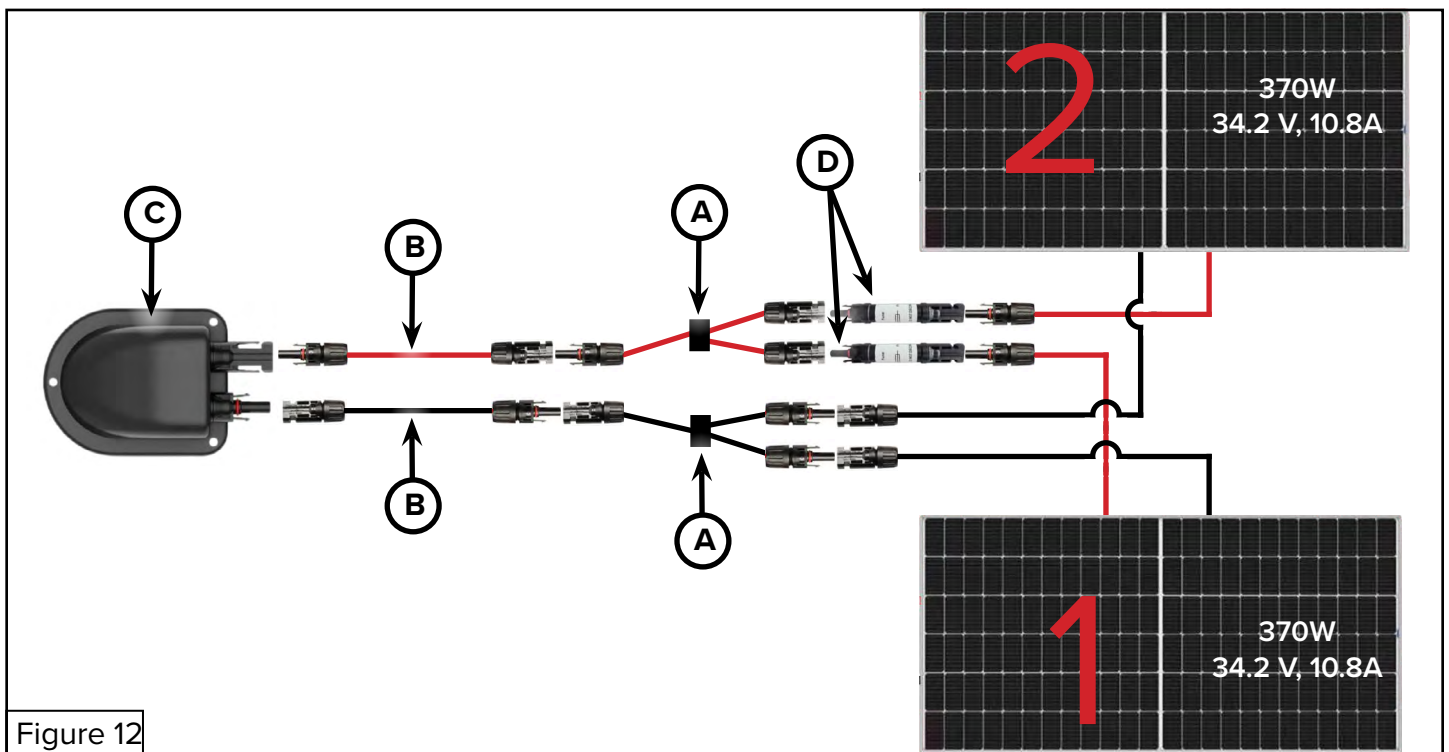


Figure 12

10. Using cable ties (not provided), secure the solar panel wiring cables to prevent the wiring from jostling around during travel (Figure 13).
11. Using wire cutters or utility snips, trim off the excess cable tie (Figure 14).

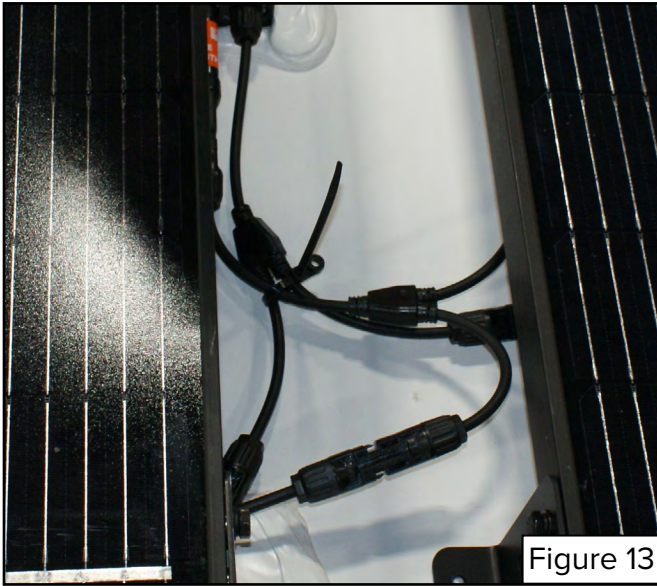


Figure 13

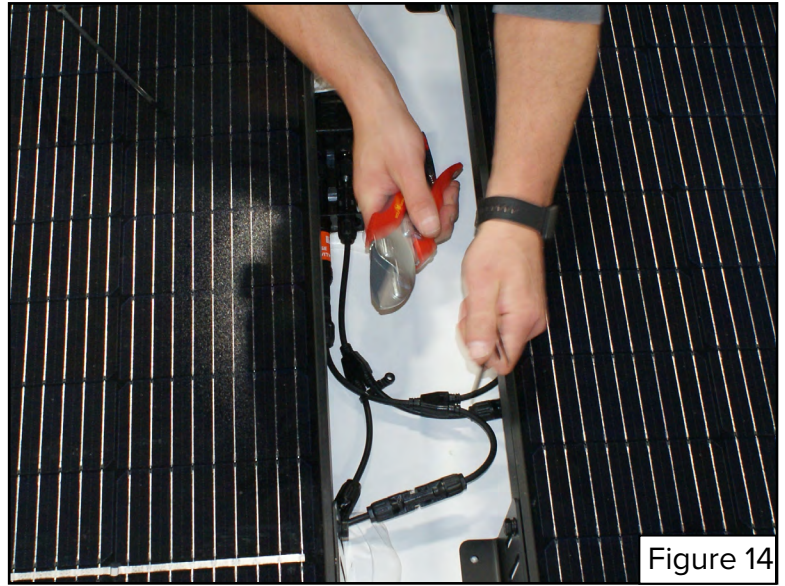


Figure 14

12. Using a caulk gun and the Self-Leveling Sealant (P/N 100090 or 120626), seal all around (including behind) and over the solar panel mounting brackets (Figures 15, 16). Make sure the roof membrane around the brackets is free of dirt, dust, and other debris before applying the sealant.
13. You should not be able to see any of the portion of the mounting bracket that contacts the roof (Figure 17).



Figure 15

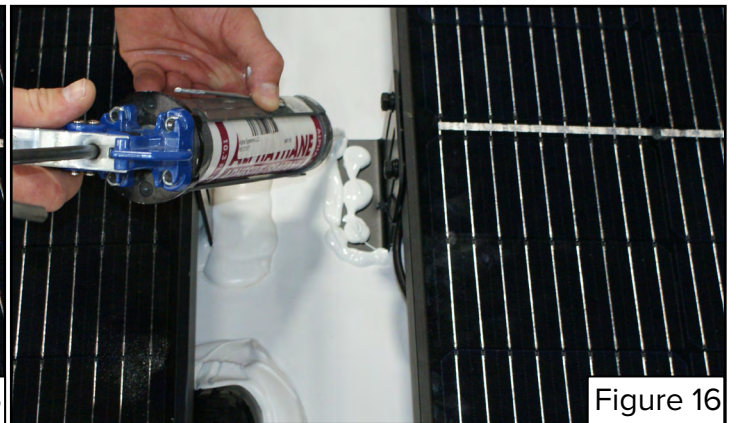


Figure 16



Figure 17

14. Locate the solar charge controller on the unit. Using the electric multimeter at the Solar Controller, check to make sure there is voltage coming into the controller from the solar panels. Place the positive probe of the multimeter onto the positive solar panel screw, and place the negative probe of the multimeter onto the negative solar panel screw. If the unit is outside in the sun, you could see up to 50V on the meter. If you are inside a building, or not in direct sunlight, you will see lower voltage.
15. Clean up any debris from the installation, and wipe down all surfaces with clean rags and the appropriate cleaning solutions (refer to the Exterior Care section of your Owner's Manual [Scan QR Codes below for the Model Z and Model Z AIR Owner's Hubs]).
Installation completed.



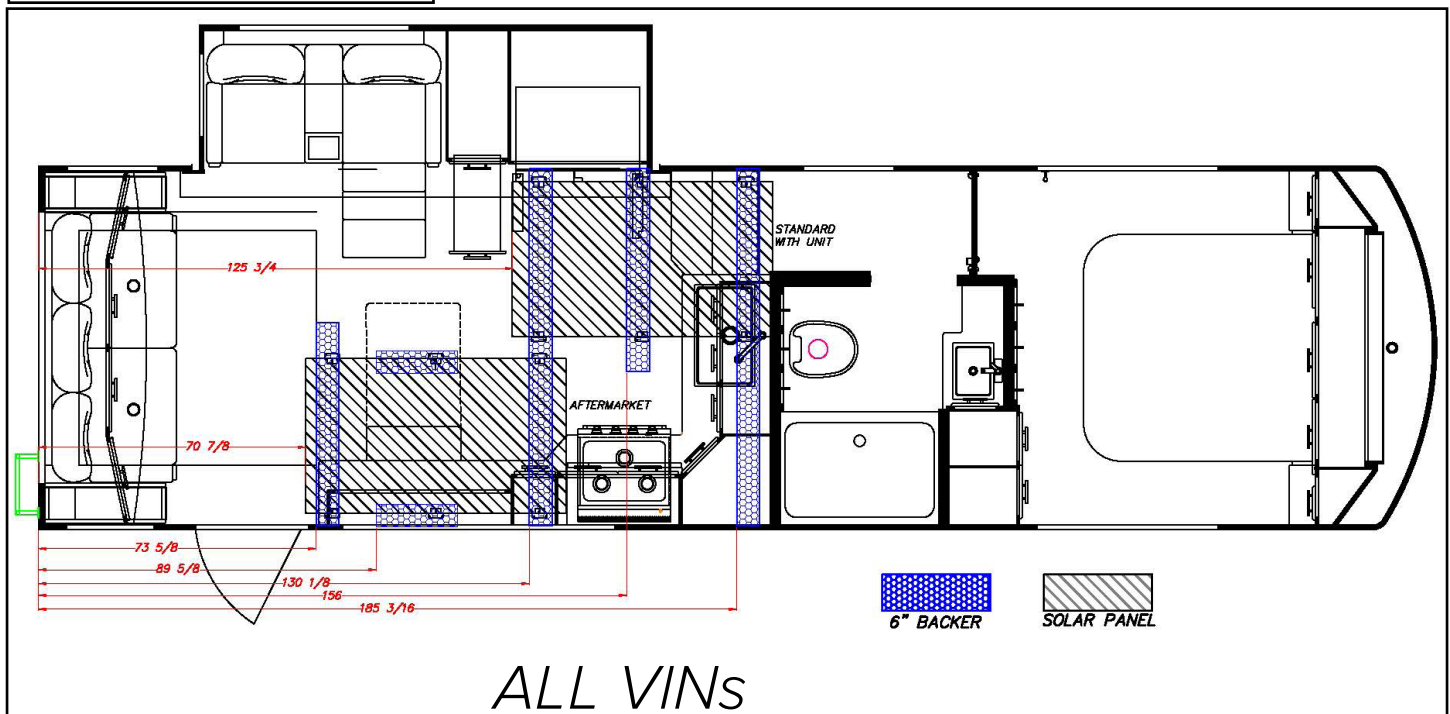
Scan QR Code above for
[Model Z Owner's Hub](#)



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[Model Z AIR Owner's Hub](#)

APPENDIX 1.1 Roof Prints

Model Z 2670



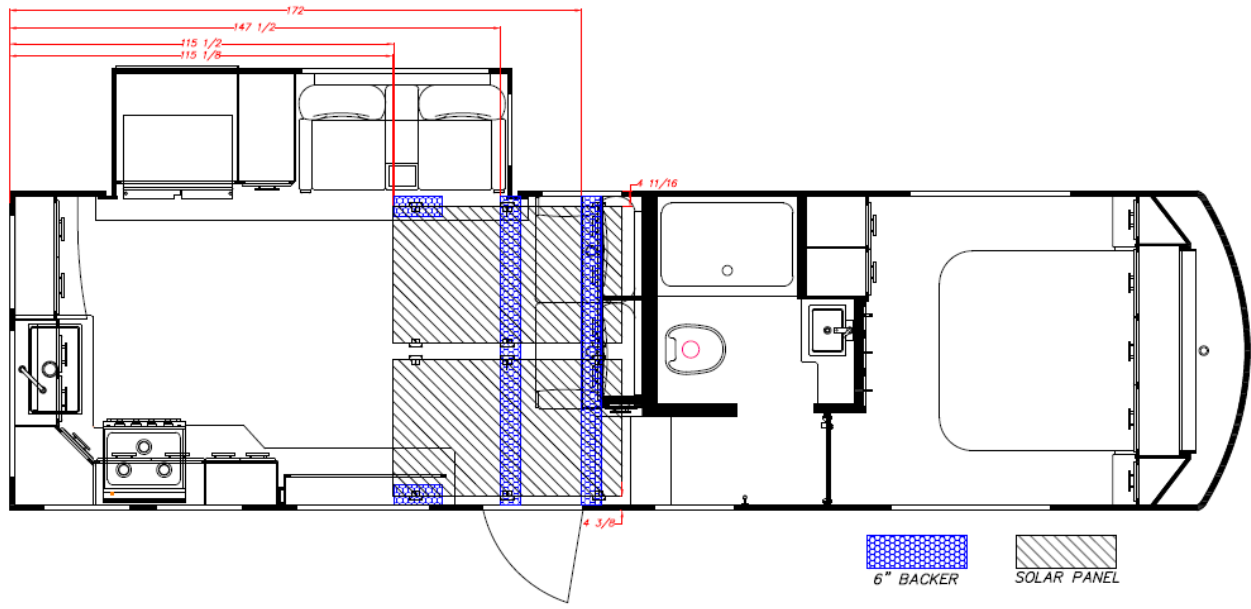
Work Instructions: WI-028-2025 Model Z and Z-Air Aftermarket Solar Panel Installation

Revision Level: REV-D

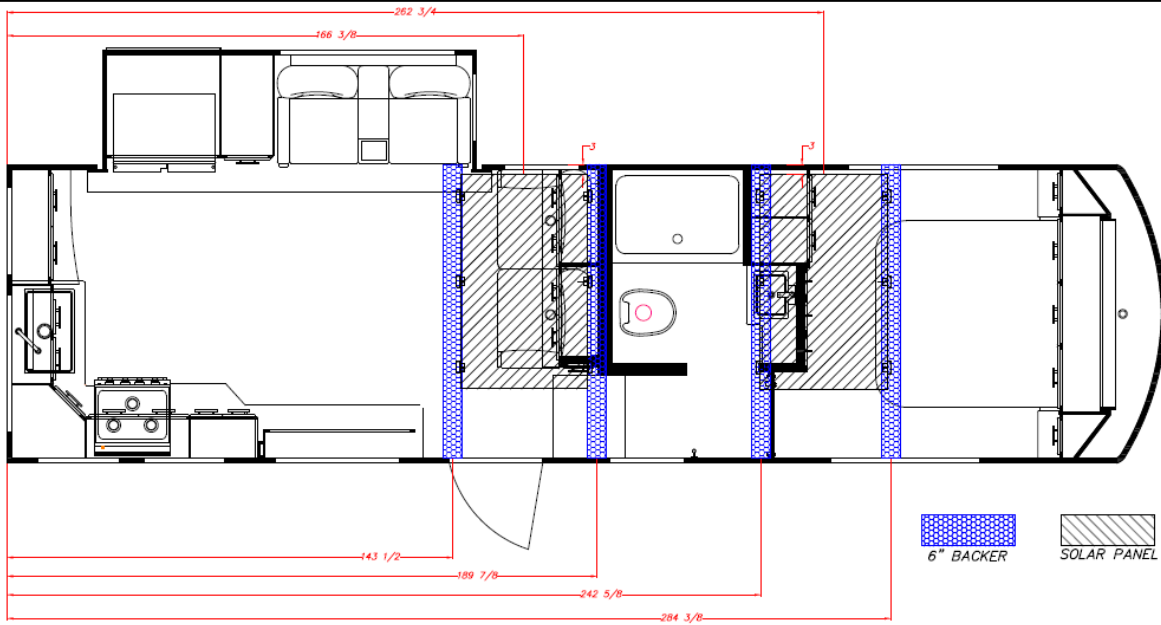
Product: Model Z and Z-Air (All Floor Plans)

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Model Z 2680



VIN #004873, #005357, #005732-#013241



VIN #013366-CURRENT



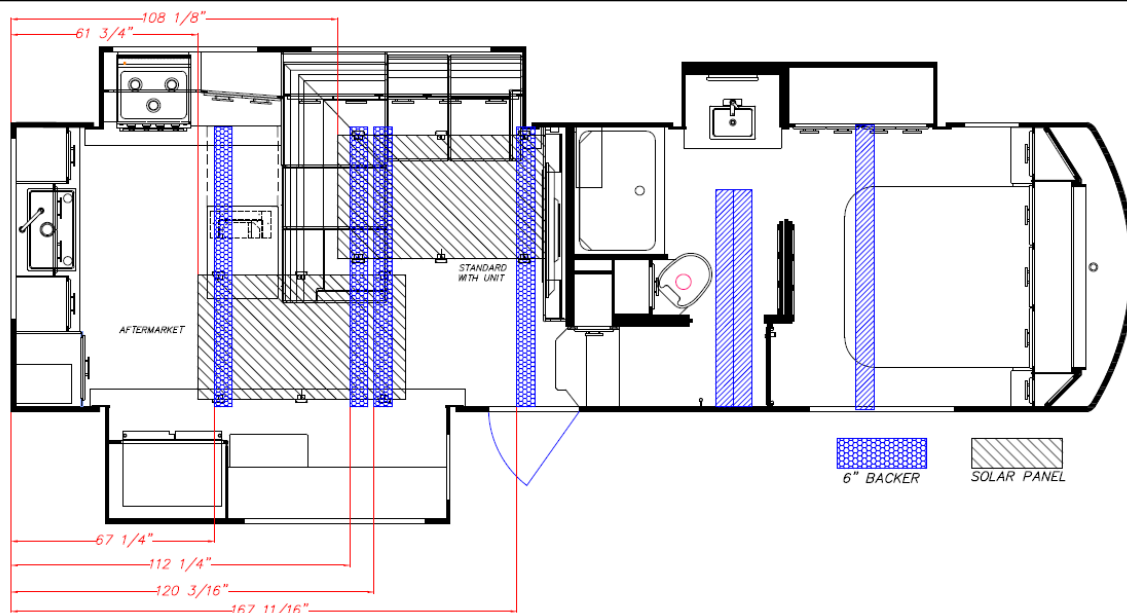
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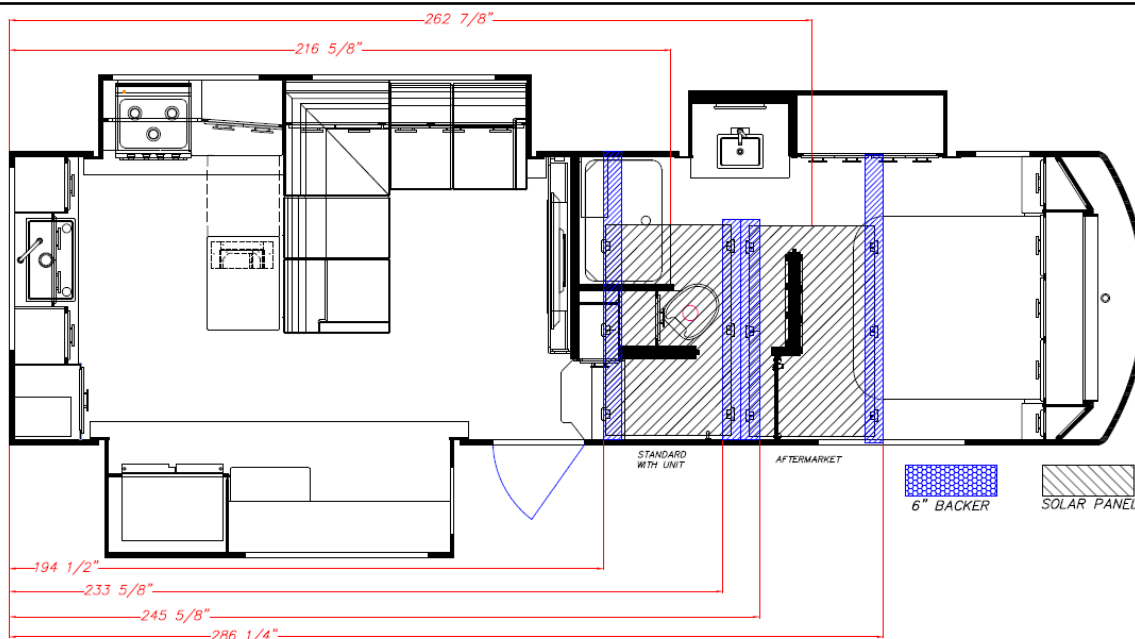
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Model Z 2700



VIN #009095, #009959, #010733-#013117



VIN #013354-CURRENT



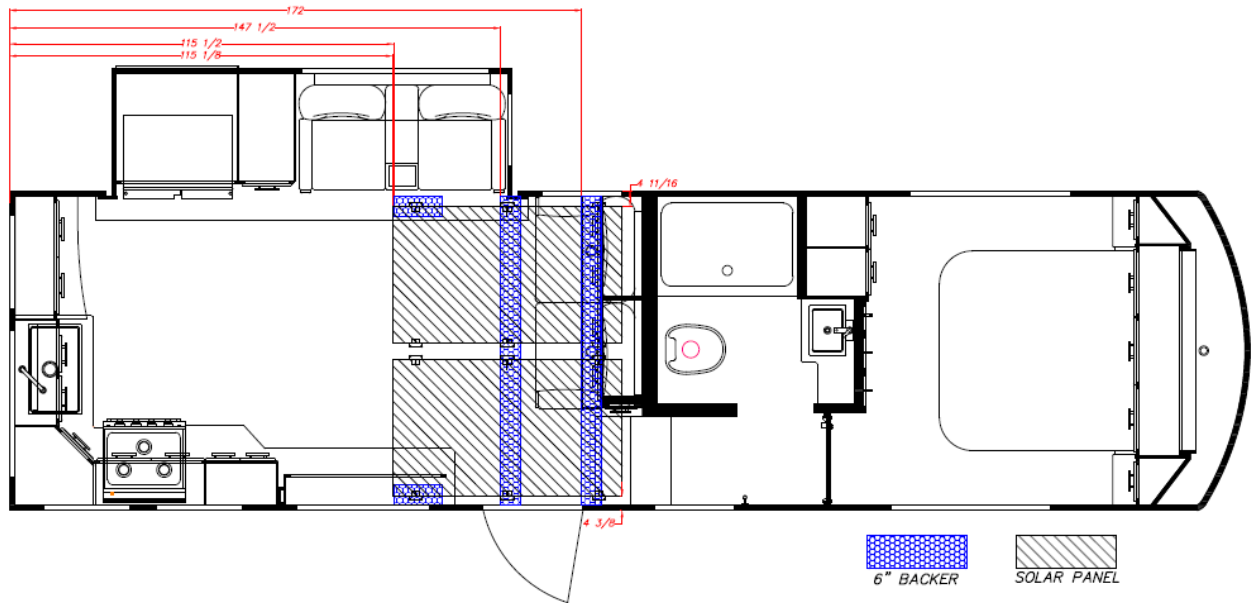
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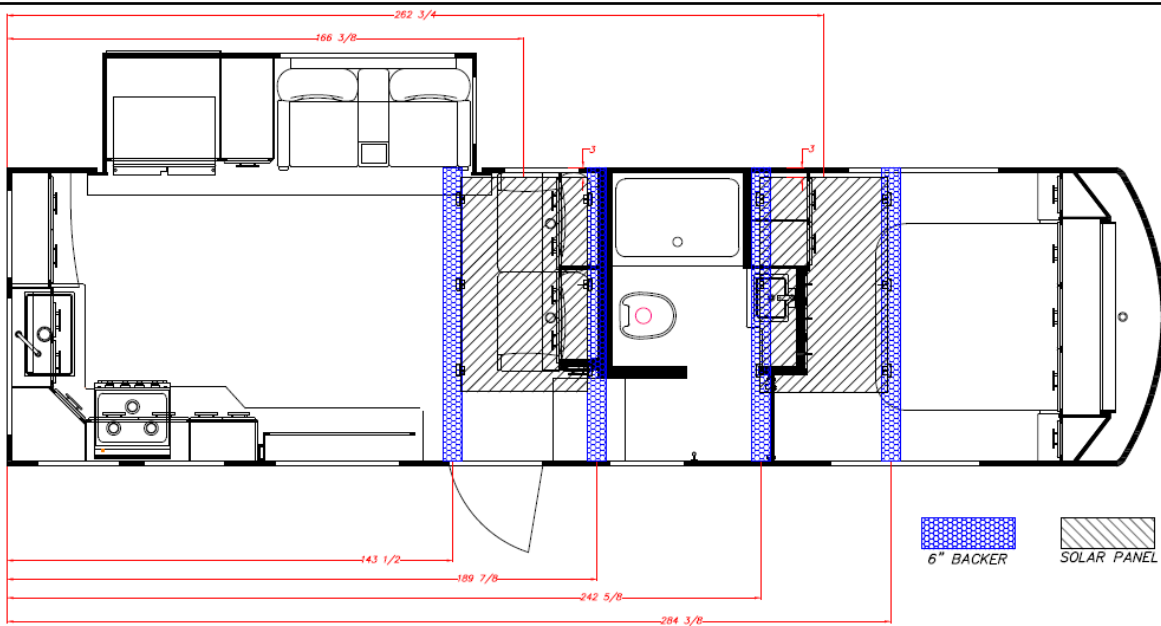
Product: Model Z and Z-Air (All Floor Plans)

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Model Z 2810



VIN #004873, #005357, #005732-#013241



VIN #013366-CURRENT



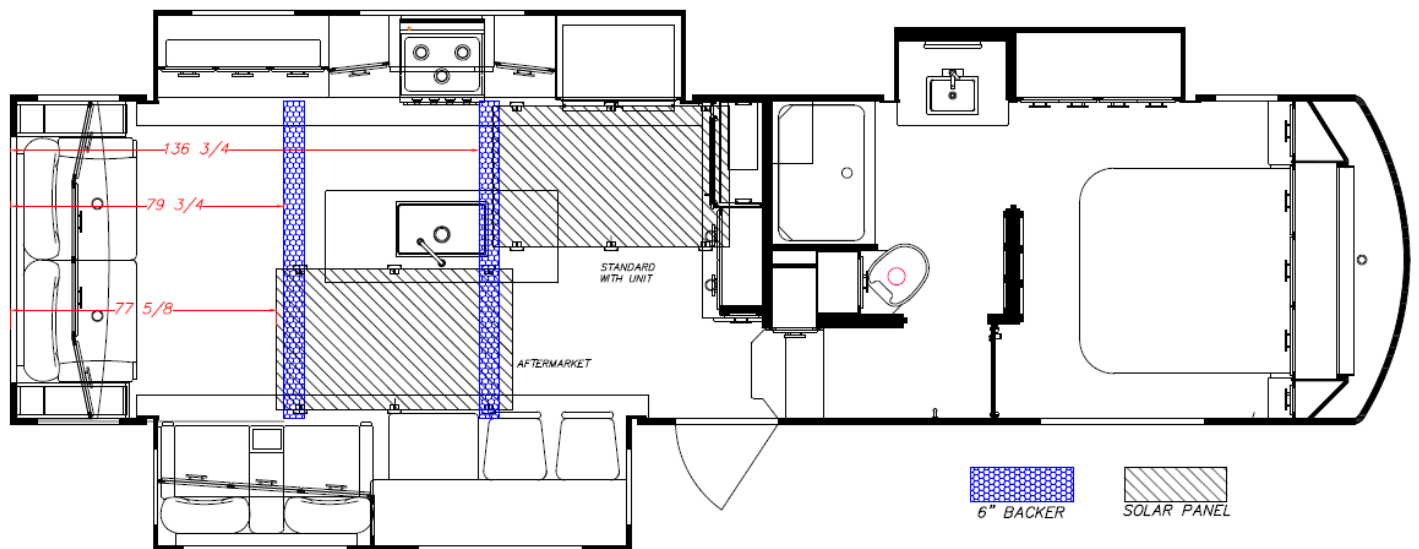
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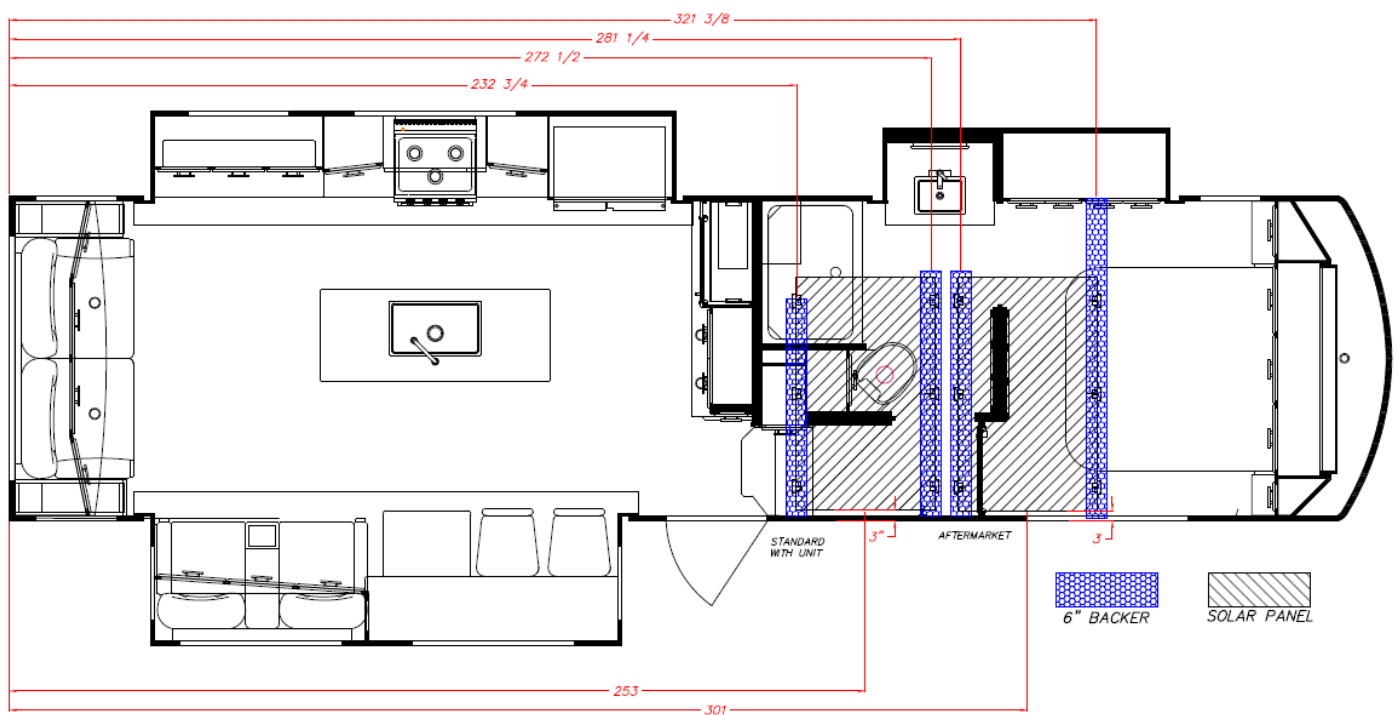
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Model Z 2900



VIN #000075, #000159, #000287-#013217



VIN #013314-CURRENT



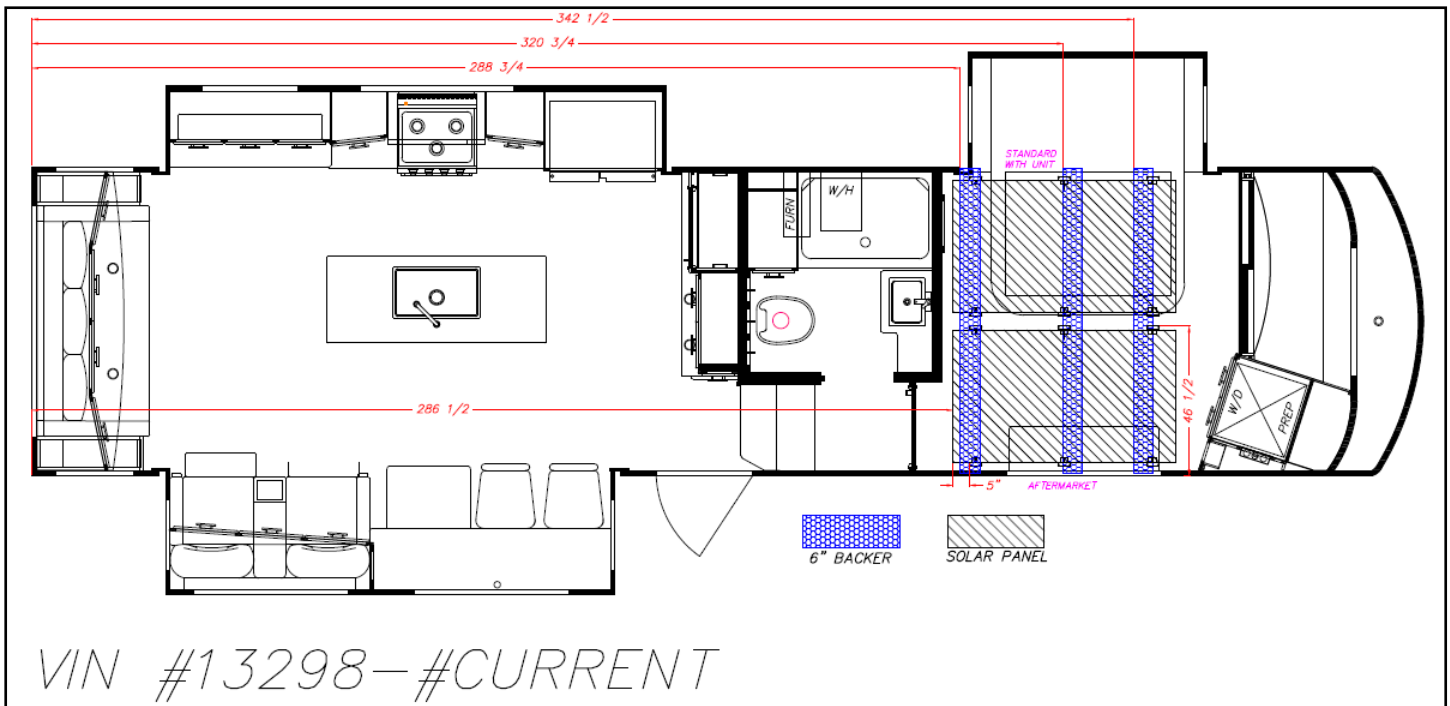
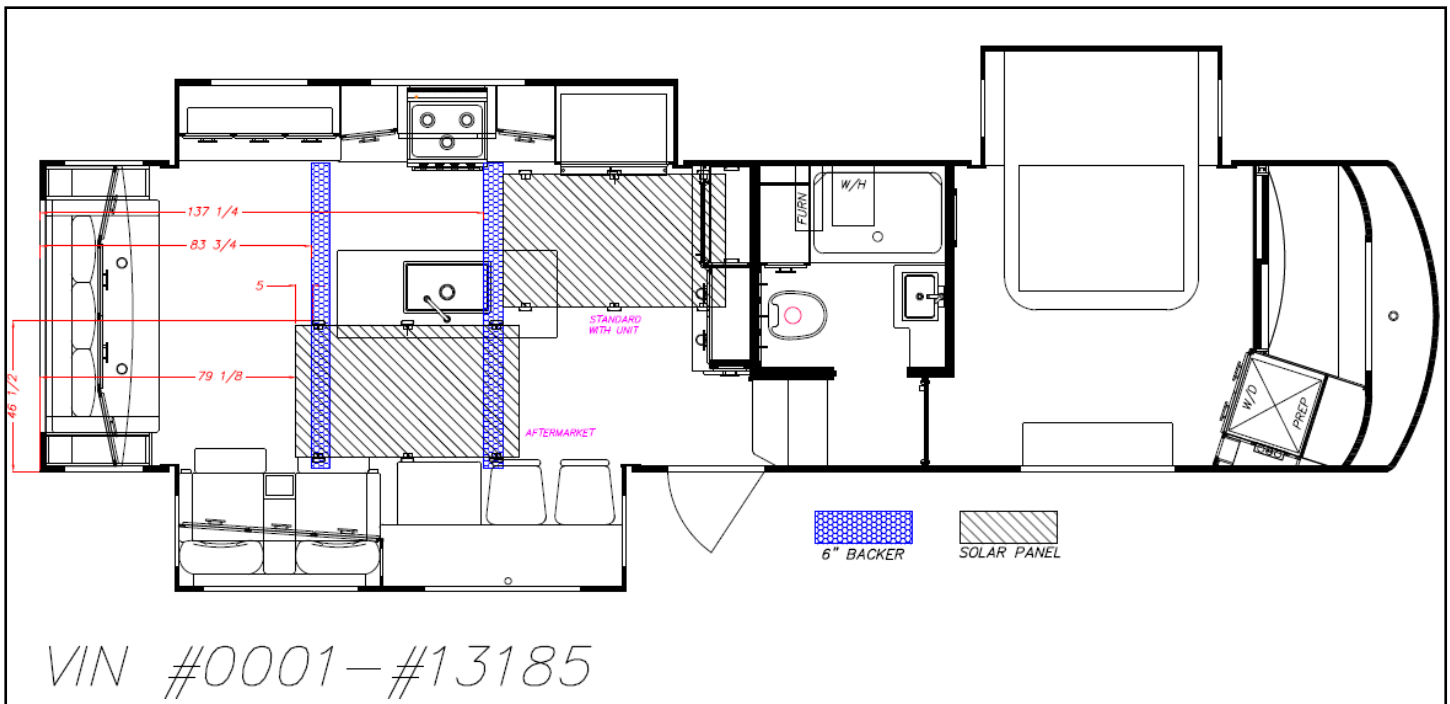
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Product: Model Z and Z-Air (All Floor Plans)

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Model Z 3100



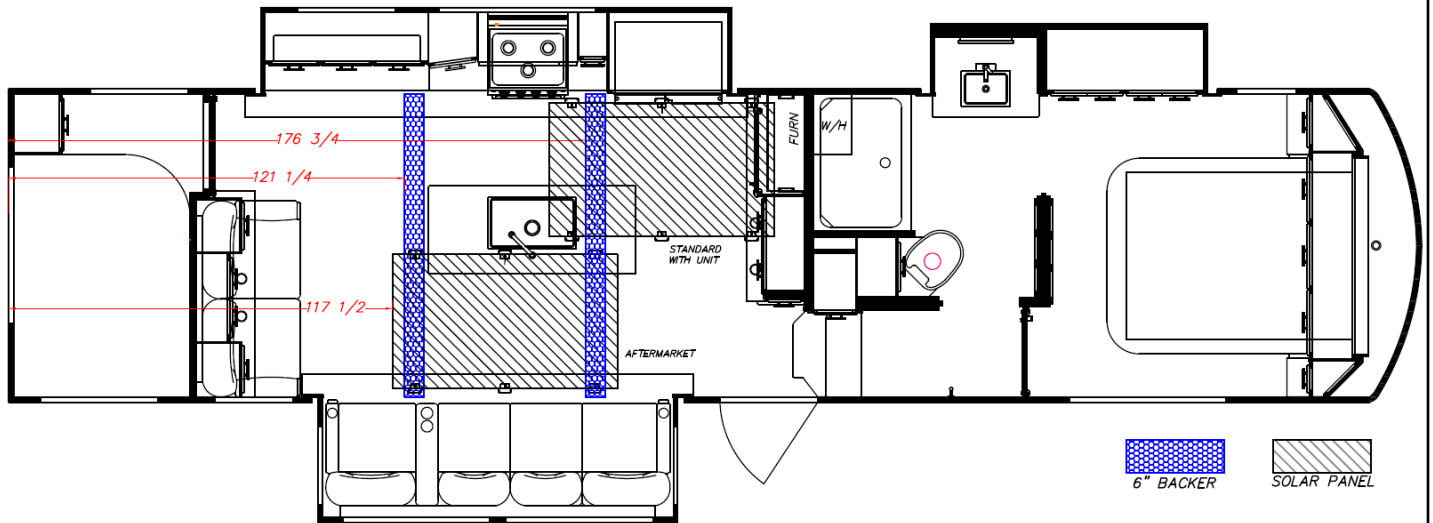
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Revision Level: REV-D

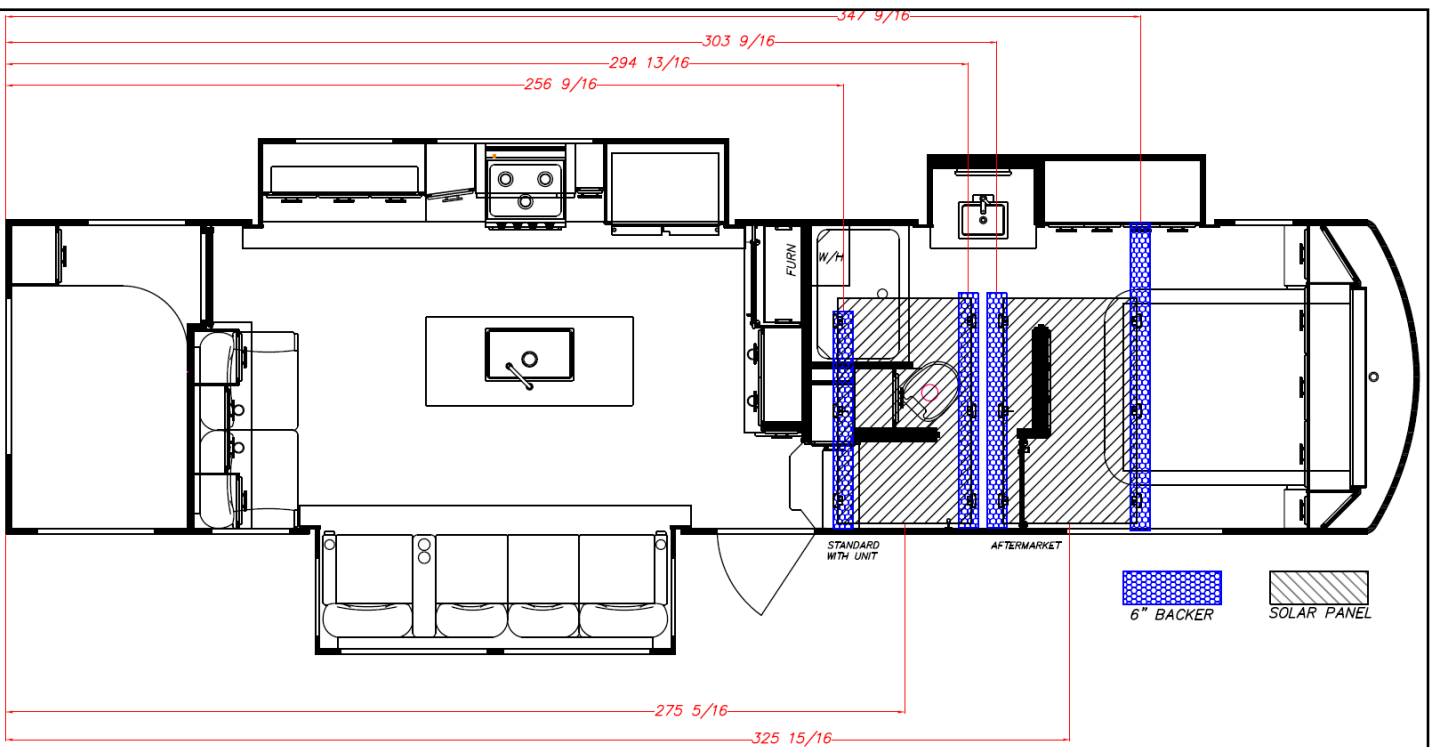
Product: Model Z and Z-Air (All Floor Plans)

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Model Z 3110



VIN #001556, #001969-#013253



VIN #013537-CURRENT



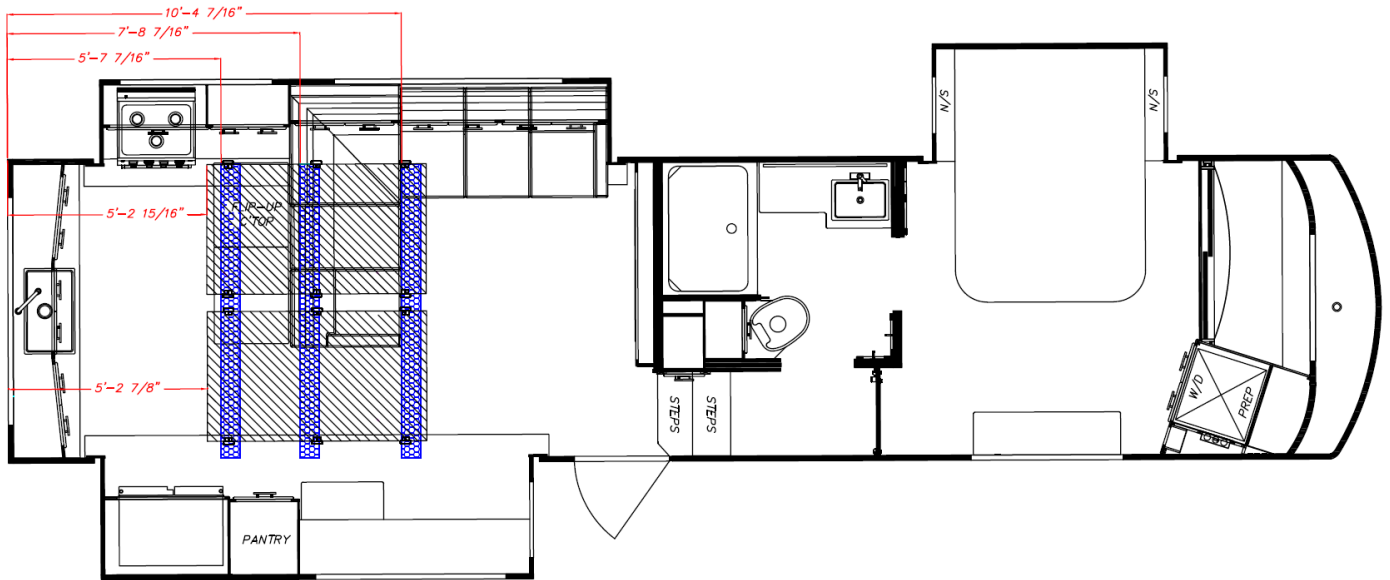
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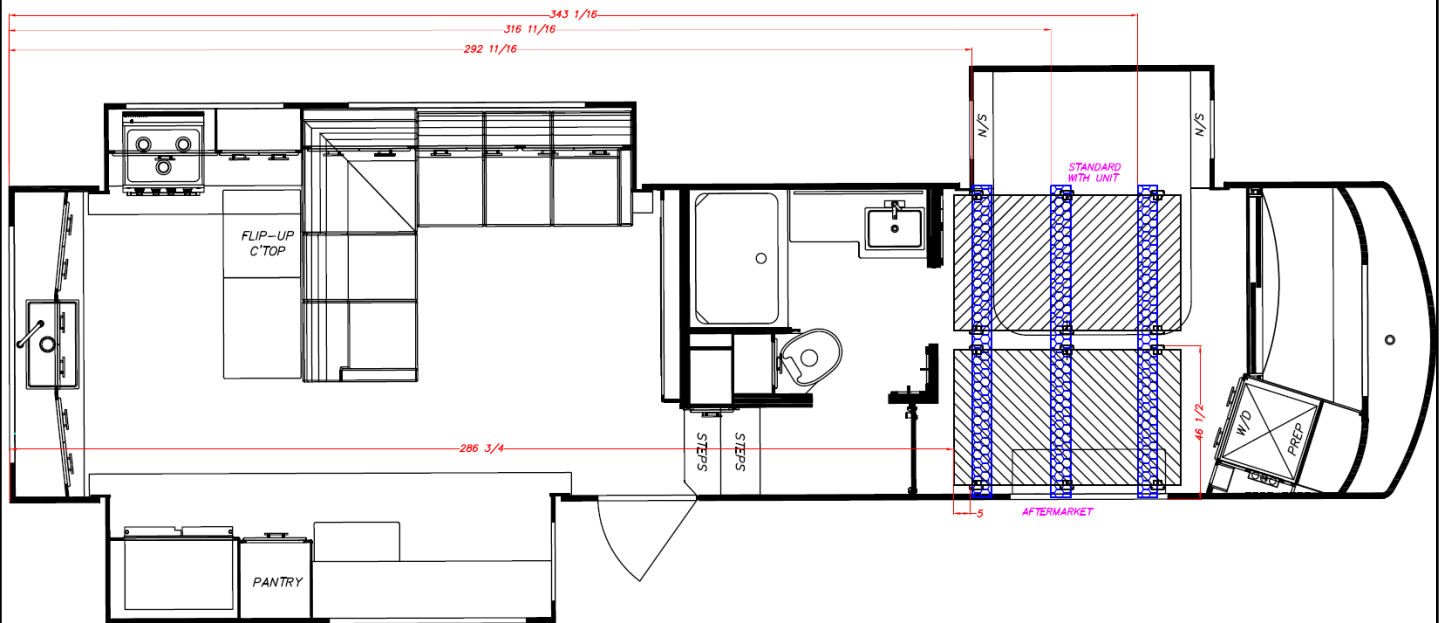
Product: Model Z and Z-Air (All Floor Plans)

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Model Z 3200



VIN #9123-#12930



VIN #13266-#CURRENT



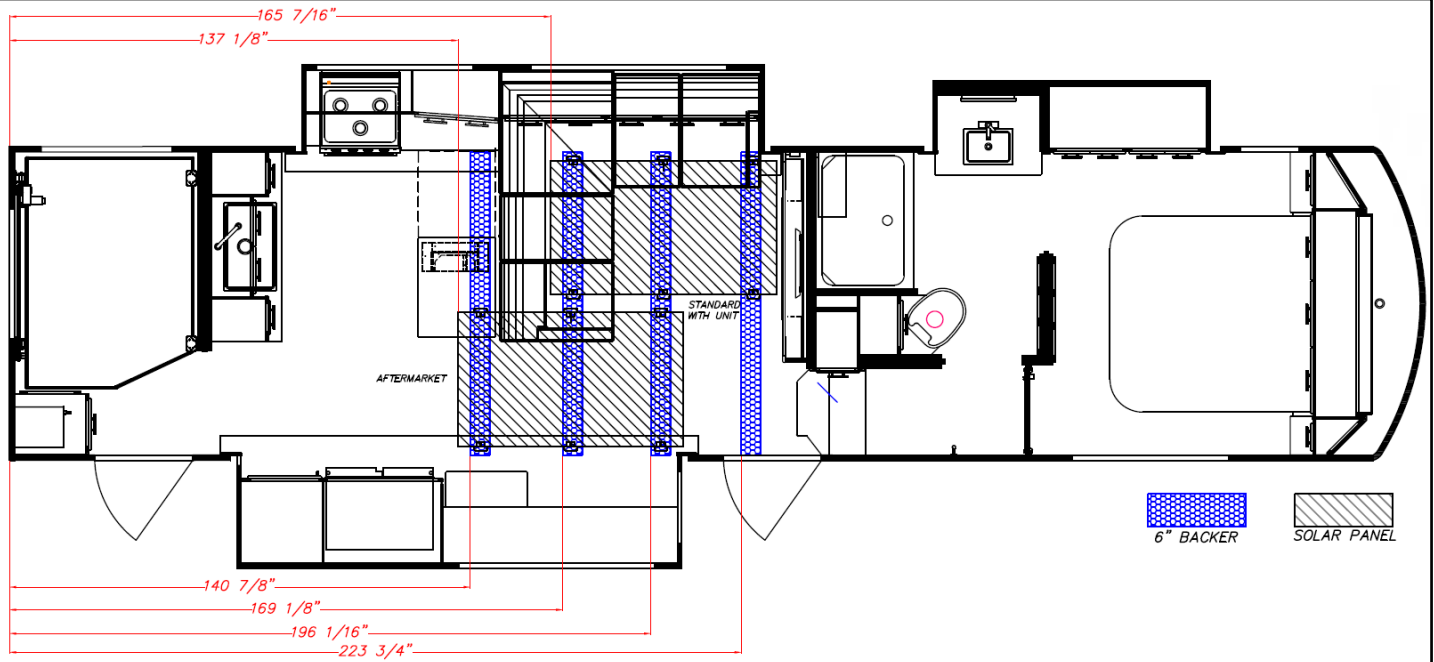
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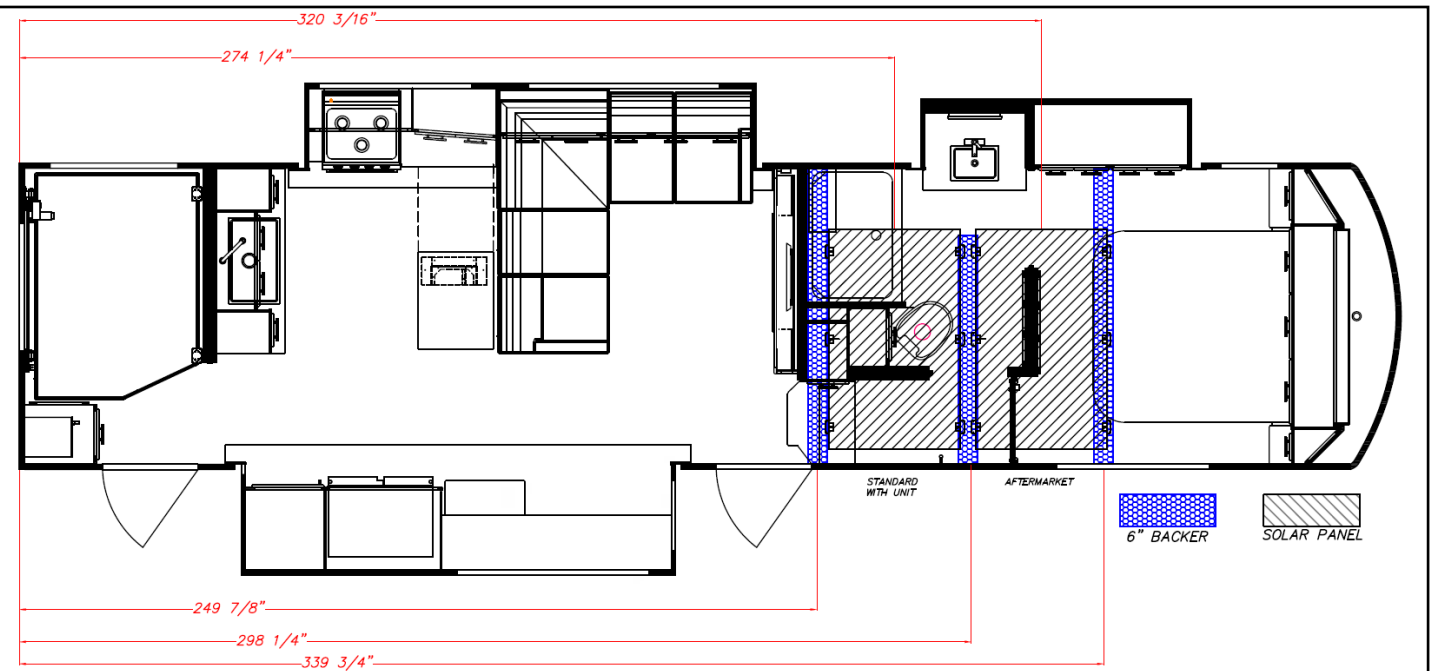
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Model Z 3210



VIN #010826, #011605, #012418-#013265



VIN #013330-CURRENT



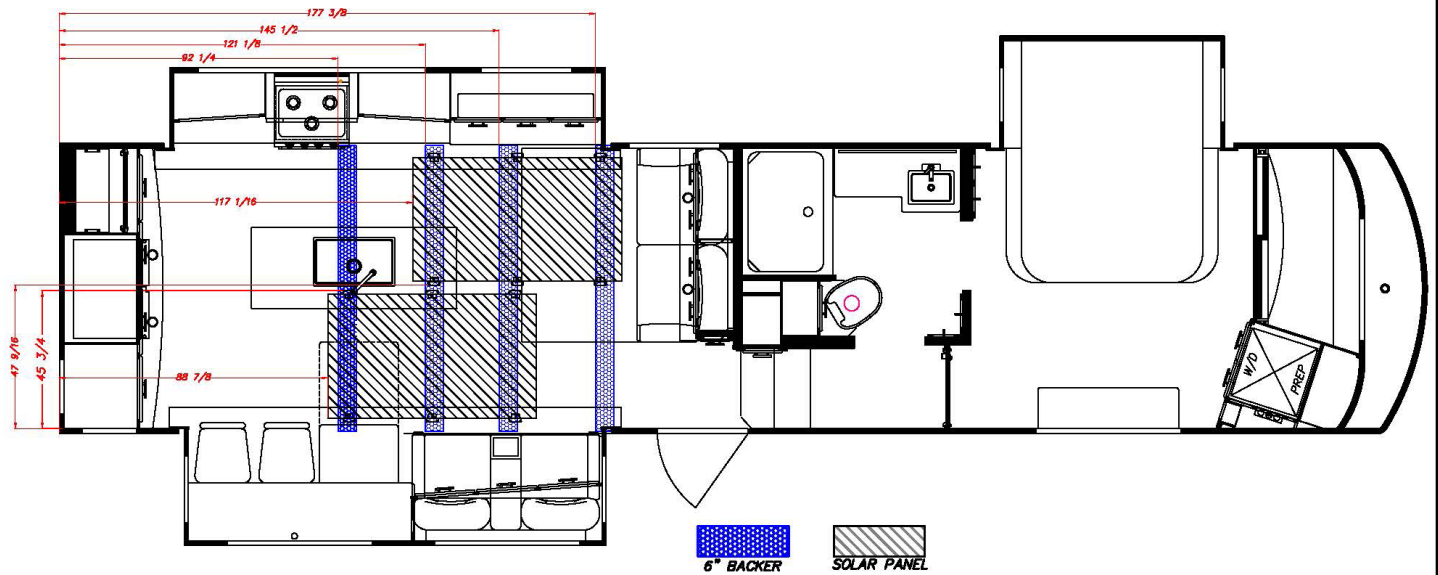
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Product: Model Z and Z-Air (All Floor Plans)

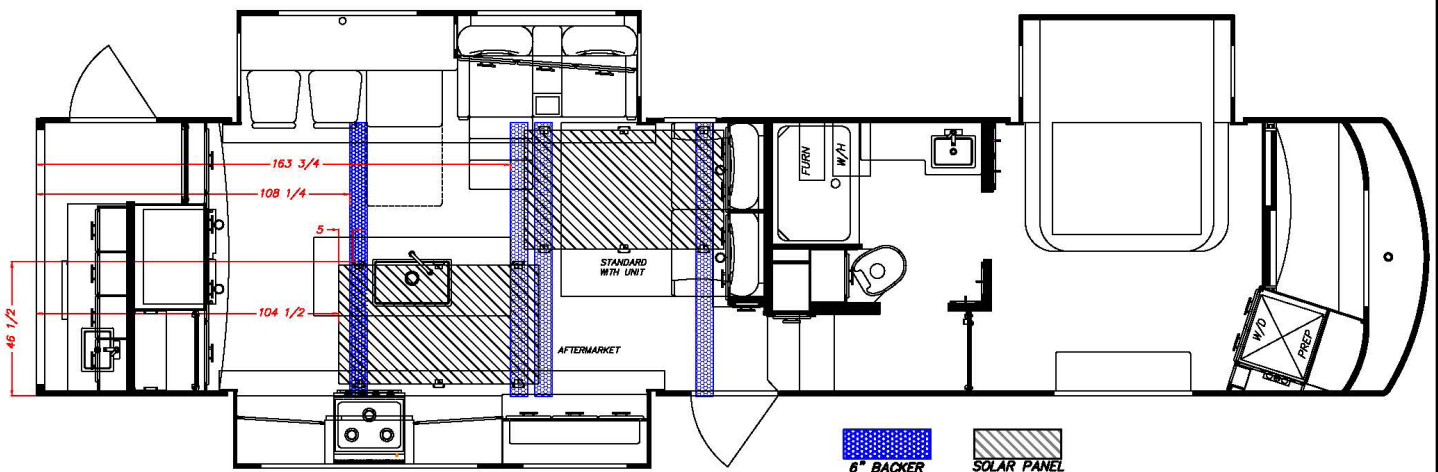
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Model Z 3300



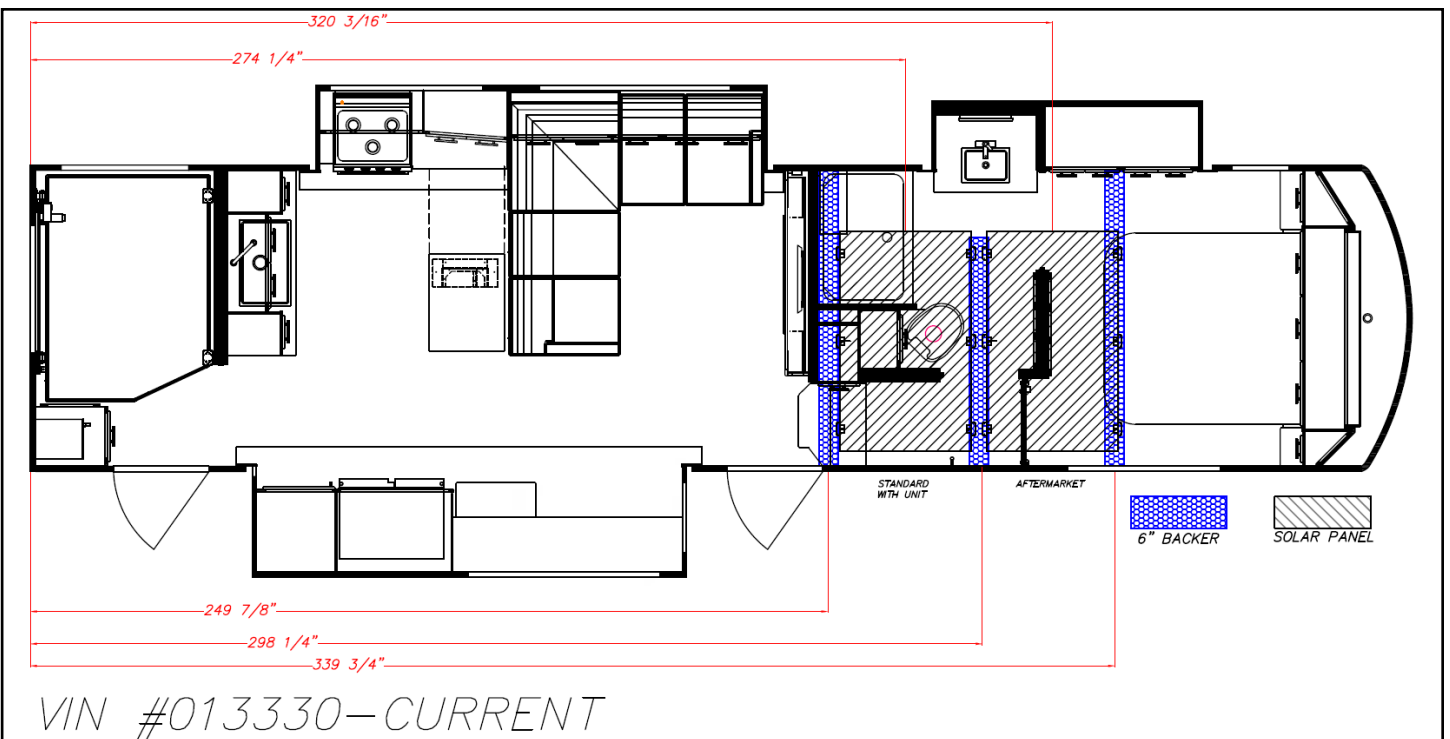
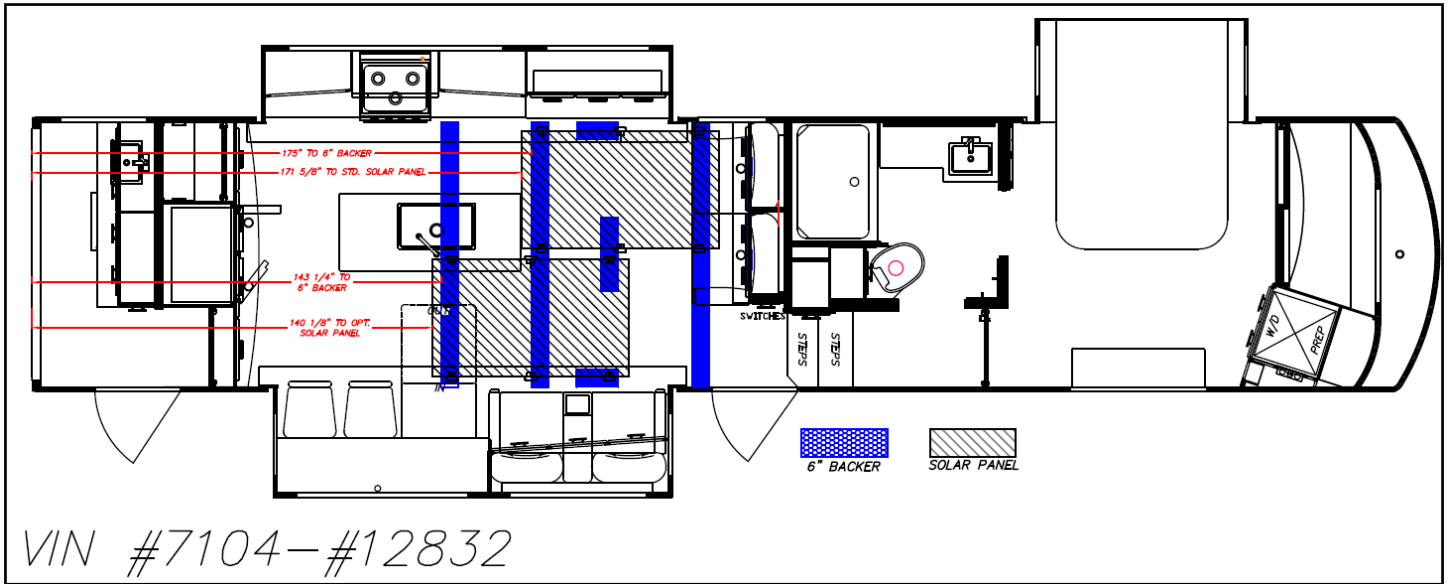
ALL VINs

Model Z 3400



ALL VINs

Model Z 3420



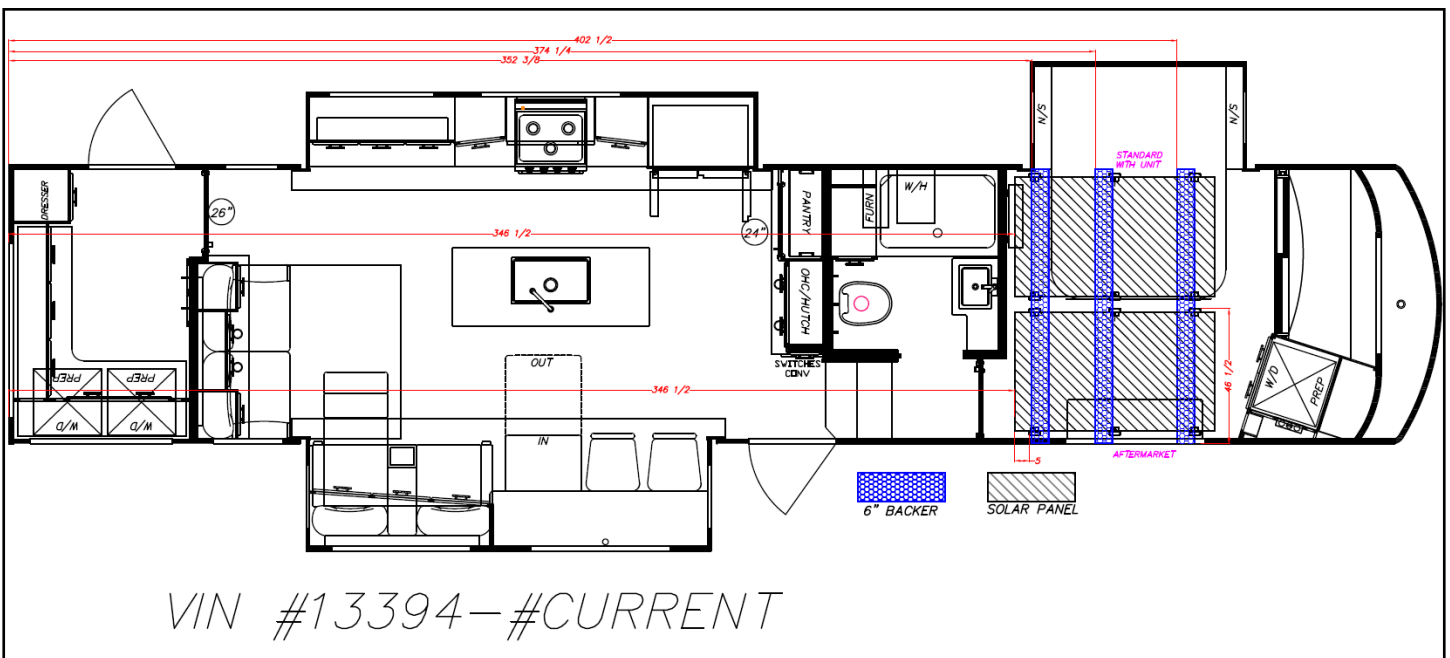
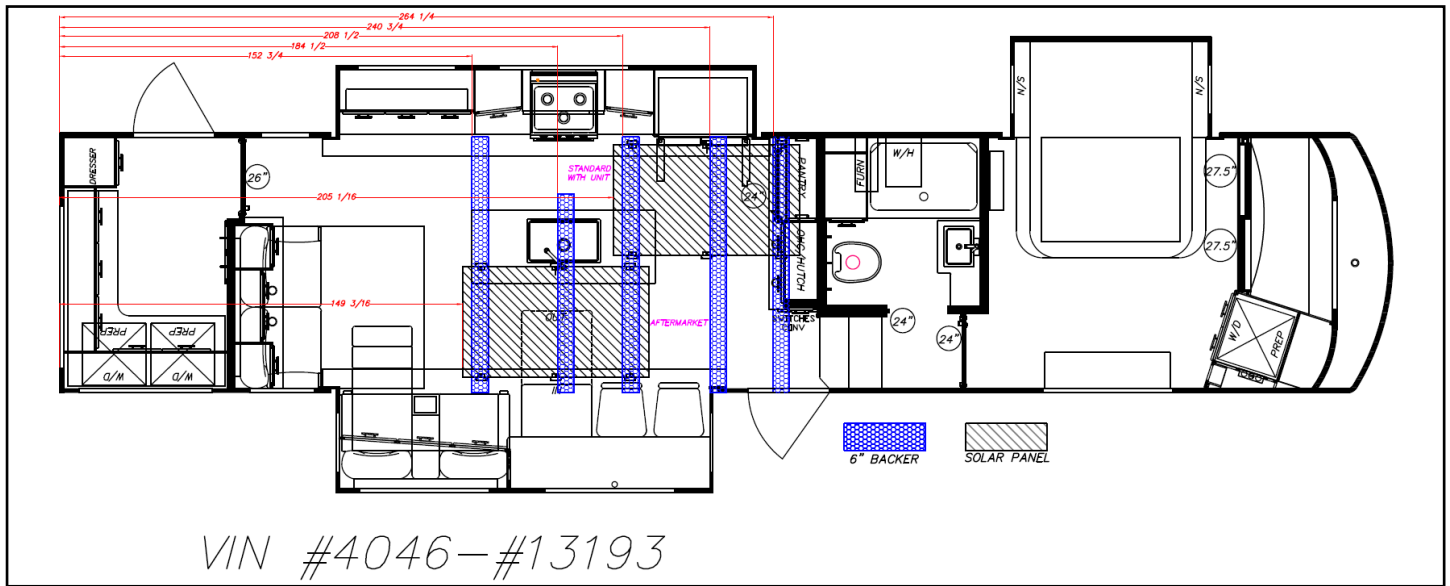
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Model Z 3515



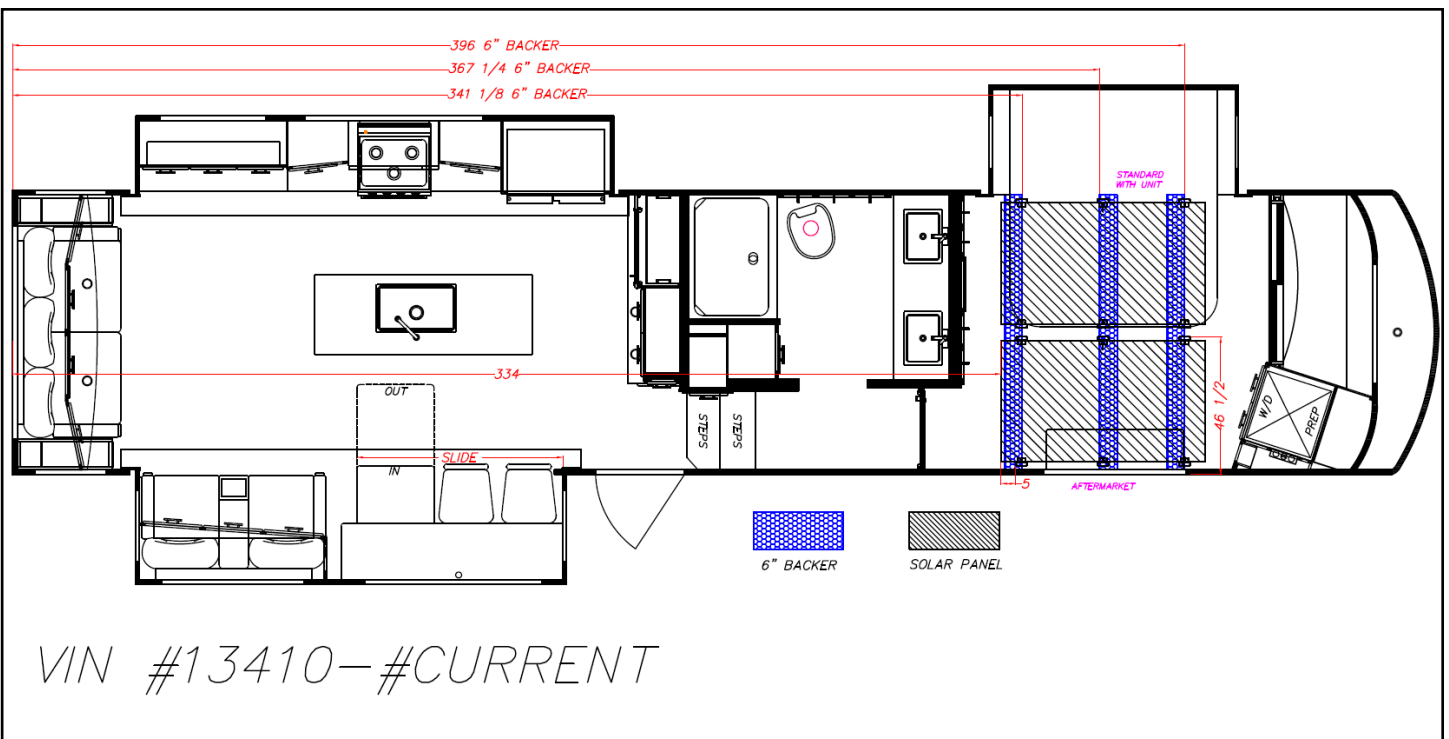
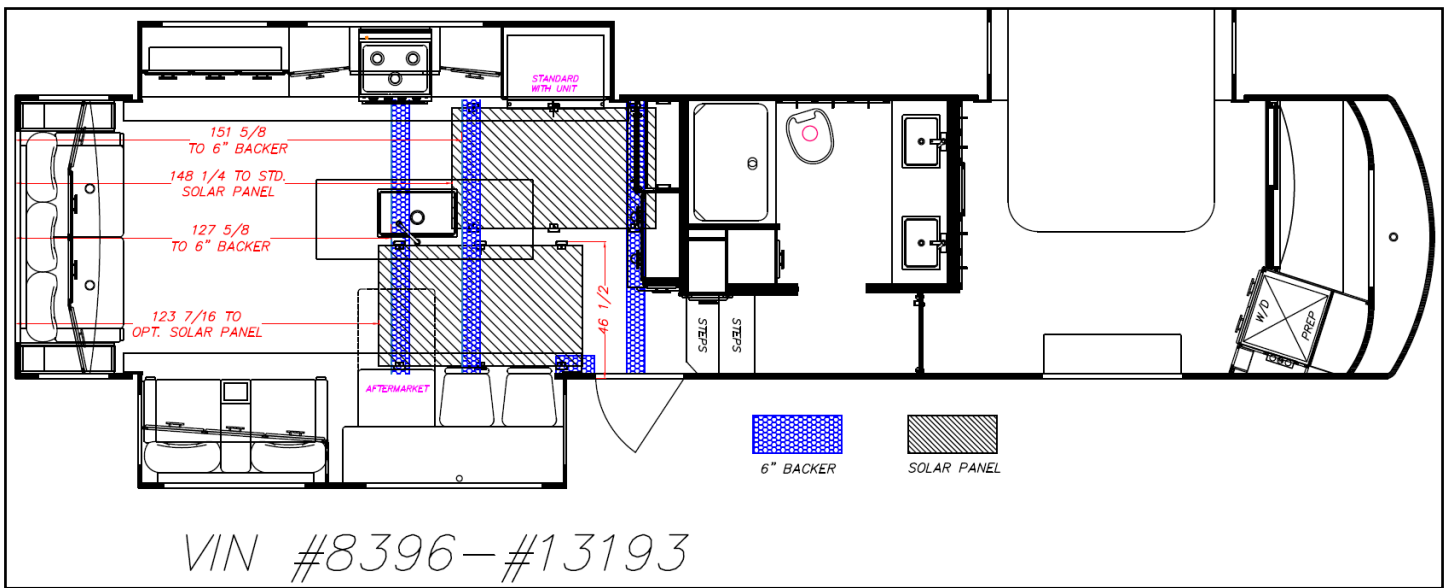
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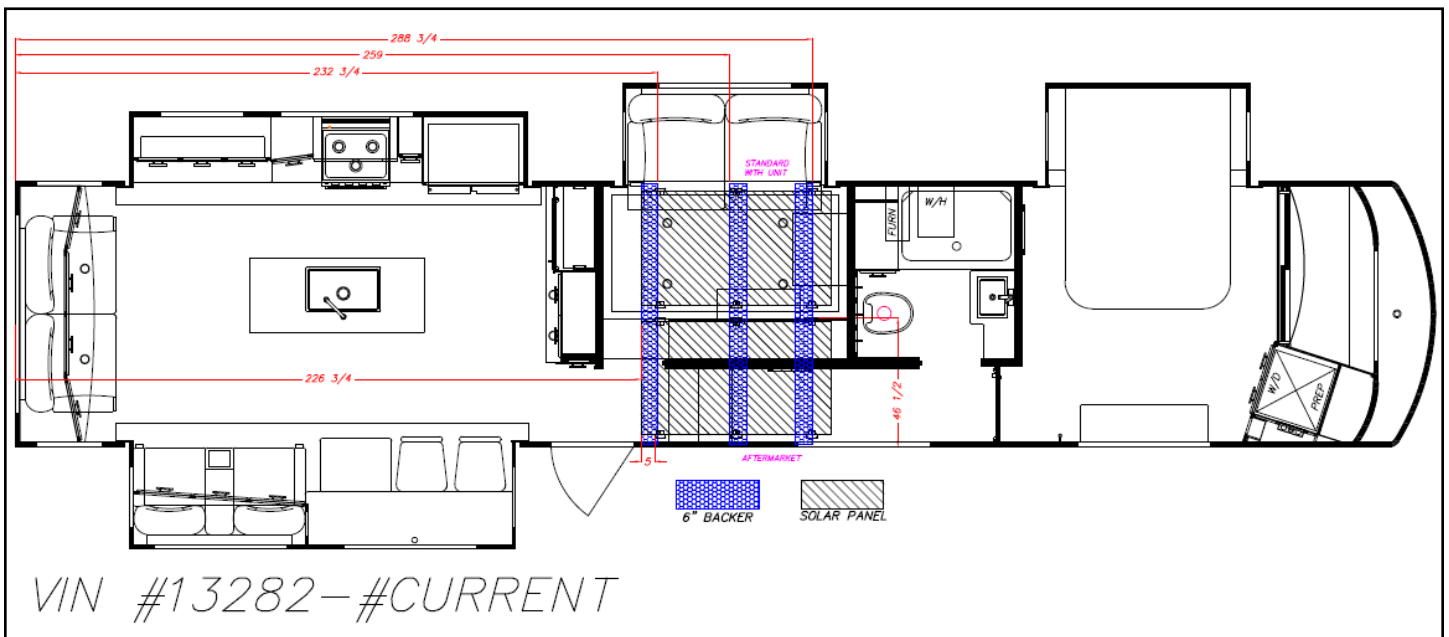
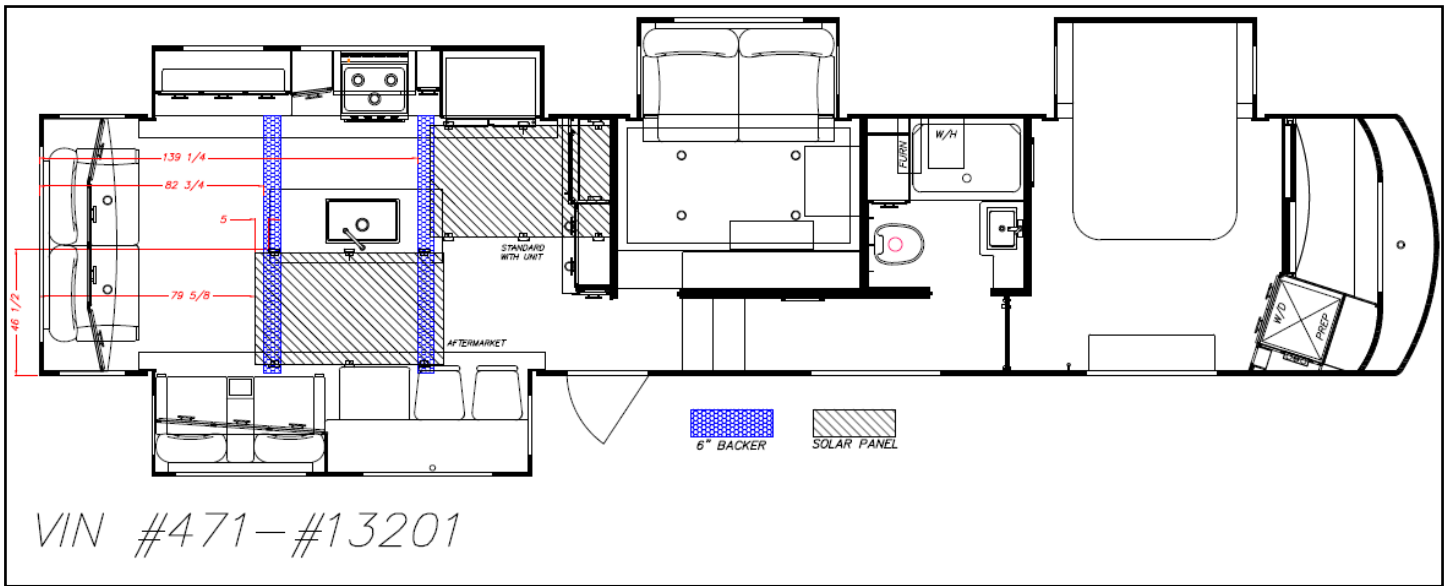
Product: Model Z and Z-Air (All Floor Plans)

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Model Z 3600



Model Z 3610



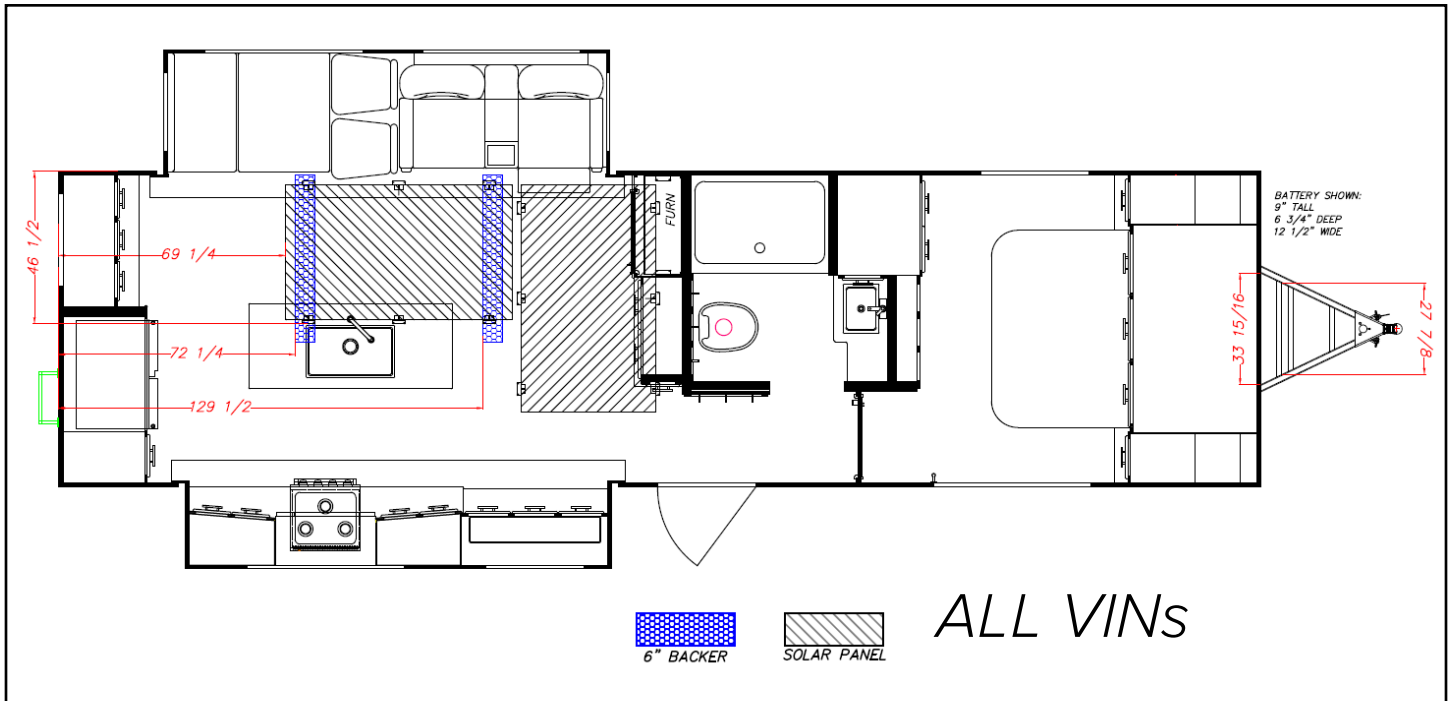
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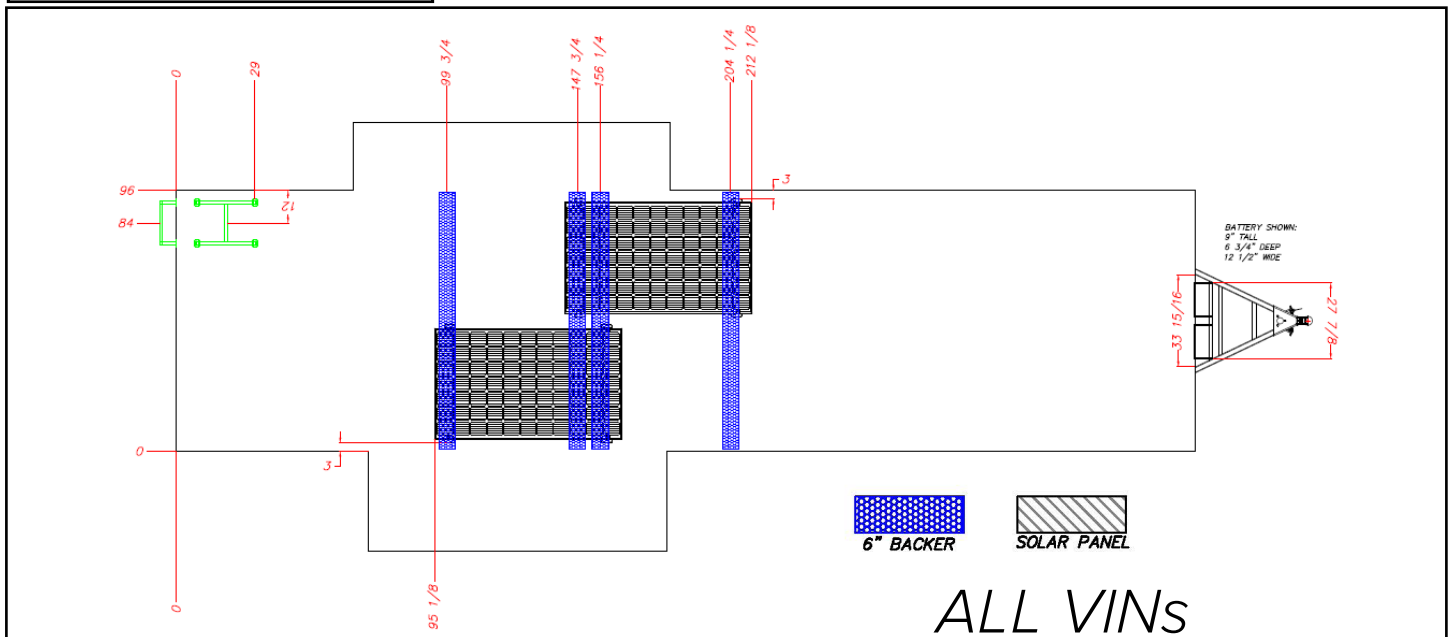
Product: Model Z and Z-Air (All Floor Plans)

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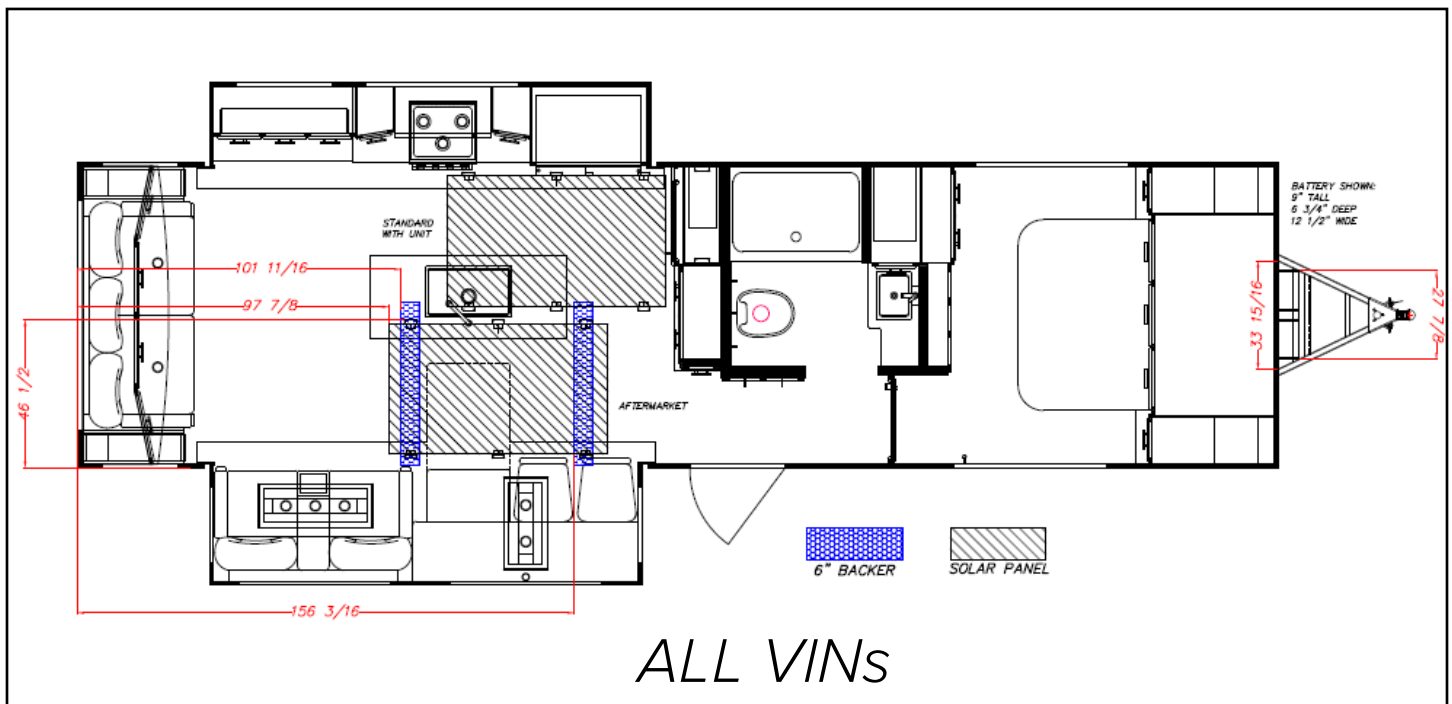
Model Z-Air 285



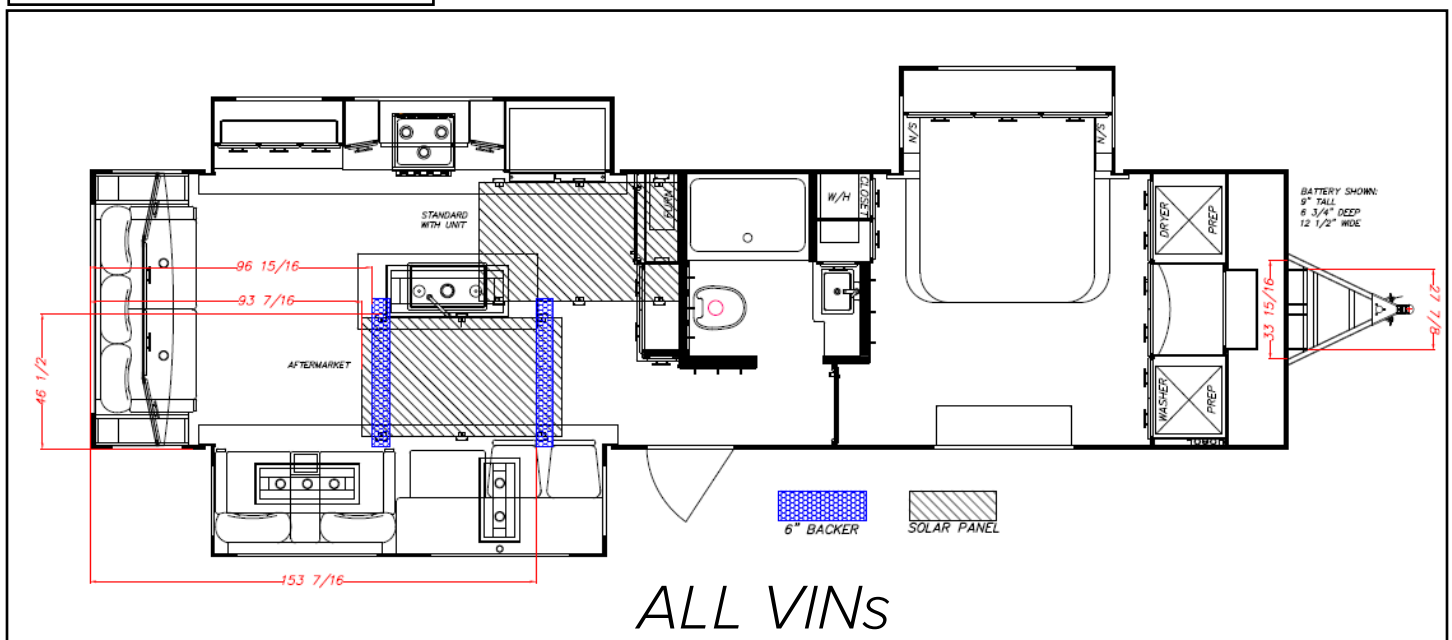
Model Z-Air 295



Model Z-Air 297



Model Z-Air 310



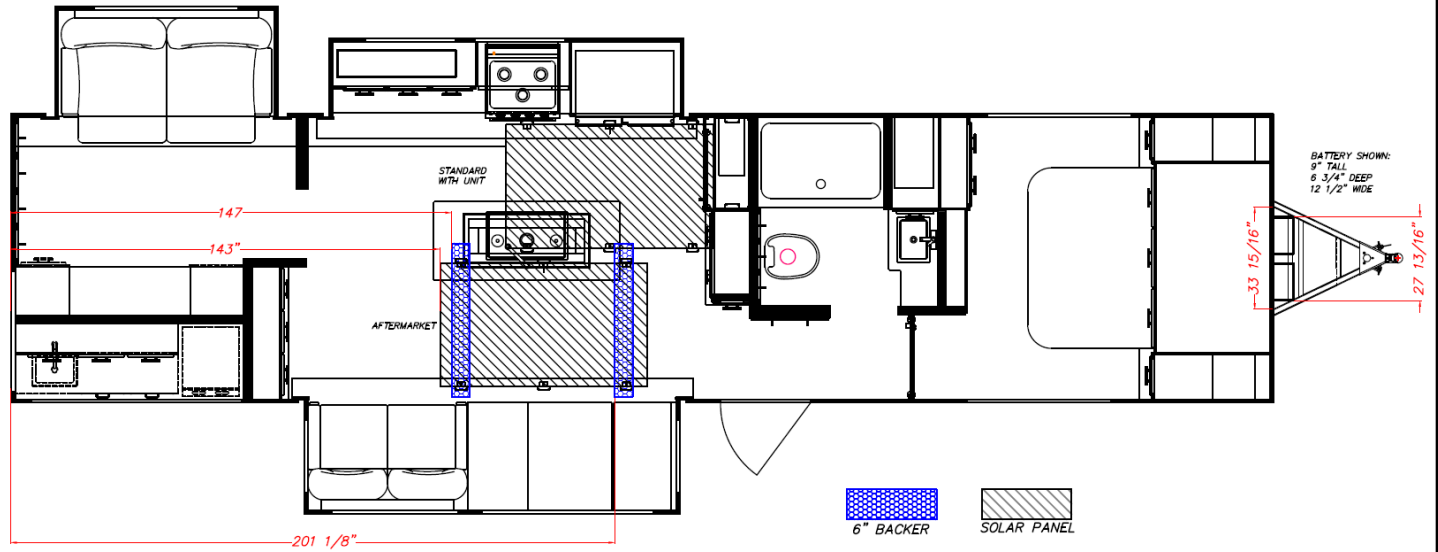
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Model Z-Air 315



ALL VINs