

		MODEL Z BED BASE FAN INSTALLATION INSTRUCTIONS			4	4	Difficulty Level
						3	
						2	
						1	
						0	
WI:	WI-033-2025 Bed Base Fan Installation Instructions						
PRODUCT:	Model Z	VIN Range:	000001 - 007186	REVISION:	REV-A		
DATE:	March 30, 2026	LABOR RATE:	Aftermarket Installation				

Applies to:

This document provides installation instructions for circulation fans in the cavity of the bedroom slide-out bed base of Model Z Fifth Wheels. The fans provide air circulation in the bed base cavity to help dissipate moisture under certain climate conditions.

Condition:

Brinkley RV offers a kit that provides forced circulation of air through the bed base to help minimize or eliminate condensation in the bed base cavity. It includes two fans, wiring and a switch, allowing the owner to operate the system as needed.

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.

⚠ 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.

+ NOTICE

This is used to address best practices that should be utilized and do not commonly result in injury but may lead to property damage if not careful.

+ NOTICE

NOTICE: Installation of these fans is intended to assist with overall air quality management. Owners of RV's must still be diligent in managing environmental conditions: See the INDOOR AIR QUALITY section of the Brinkley RV Owner's Manual for more information.

PARTS INFORMATION

Bed Base Fan Kit # K119322

PART #	Description	Qty
116590	FAN 3" FOR BED BASE IP68	2
101594	SWITCH FLOOR BLACK 1 GANG AH-FLR-1-5	1
101597	SWITCH TOGGLE	1
101595	SWITCH BEZEL	1
100067	WIRE RIP 14/2 YELLOW/WHITE UL/CSA	4'
101674	TERMINAL FEMALE DISC 16-14GA 1/4" FULL INSULATED QD 72F-250--32-NBL	2
104394	FASTENER SCREW 8 X 1 3/4 3019 GRAY ROUND WASHER QUAD 2/3 DEEP THREAD TYPE 17	4
101356	FASTENER SCREW 8 X 3/4 2000 BLACK PAN QUAD	2
101913	CONNECTOR TRANSPARENT WAGO 3 LEVER 20-10 CONDUCTOR	6
101633*	VENT COVER	2
101356*	8X3/4 PAN HEAD SCREWS BLACK (FOR VENT COVER IF NECESSARY)	8
109801	INSTALLATION INSTRUCTIONS	1

*Part included but may not be required.

NOTE: If the bed base cover is damaged or otherwise unable to be reused, order the following replacement parts:

- (2) pcs 116881 composite panel
- (1) pc 116882 composite panel
- (12) pcs 102730 pan head screws



Work Instructions: WI-033-2025 Bed Base Fan Installation Instructions

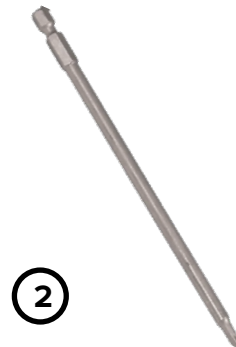
Revision Level: REV-A

Product: Model Z

Page 2 of 11

TOOLS REQUIRED:

1. Cordless Drill
2. Extended #2 square drive bit
3. 1-1/8" Hole saw
4. Wire Cutters / Strippers
5. 2" Hole saw (required if vents must be installed)



+ NOTICE

The bed base vent fans are installed to provide a continuous circulating flow of air into and out of the bed base cavity (Figure 1a). The fans (Figure 1b) should be installed and wired to provide this flow. One fan (intake fan) should be drawing air into the cavity while the second fan (exhaust fan) is blowing air out of the cavity. Note the orientation of the air flow of the fans when installing (Figure 1c). (NOTE: Bed base cover removed for clarity).

Prior to proceeding with fan installation, determine if the bed base has vents installed (Figure 1a). If vents are present, proceed with fan installation on page 5. If vents are **NOT** present, follow the instructions on page 4 to install them.

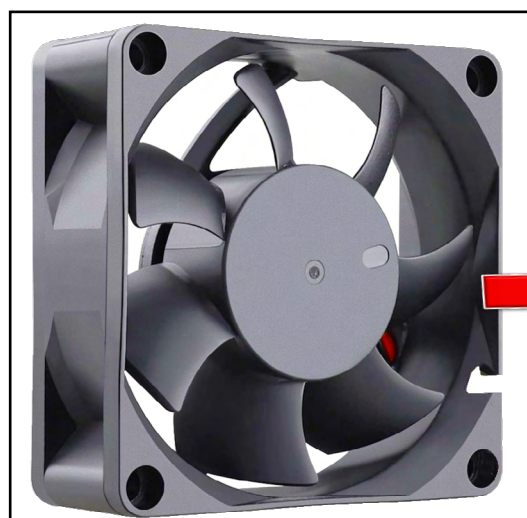
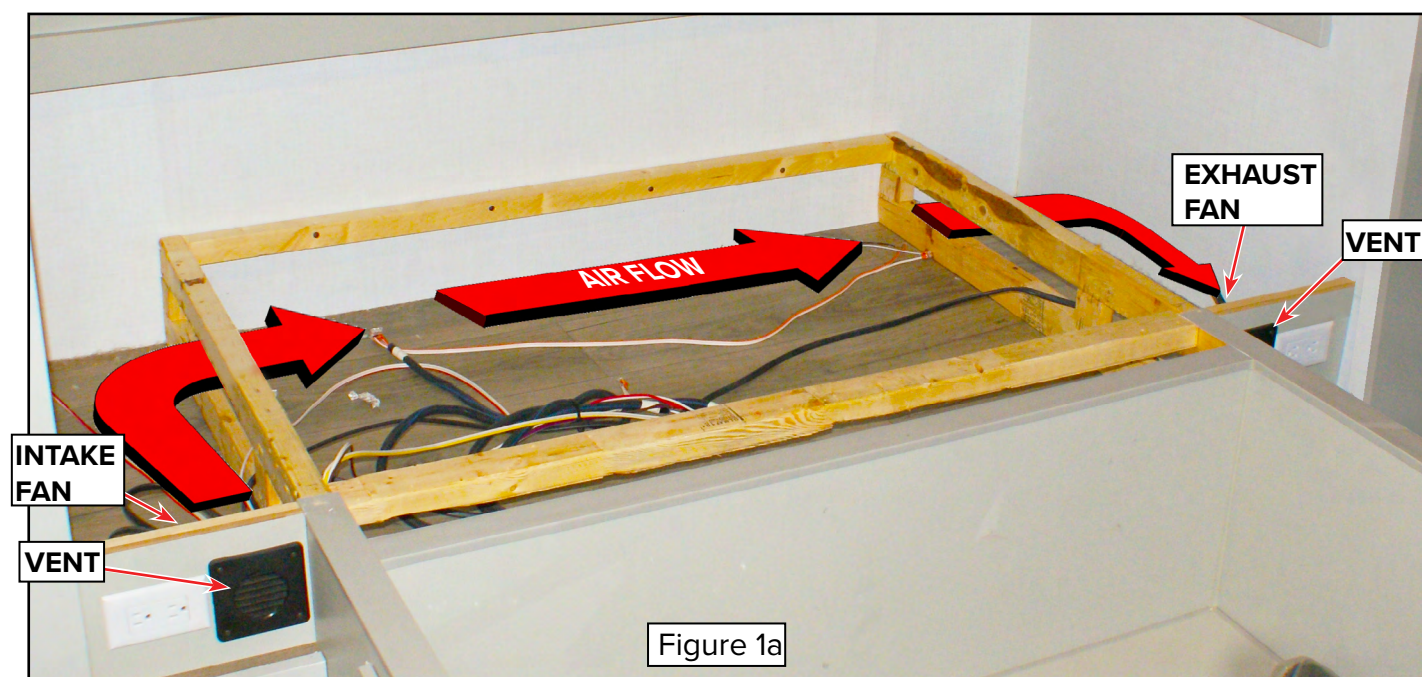


Figure 1b



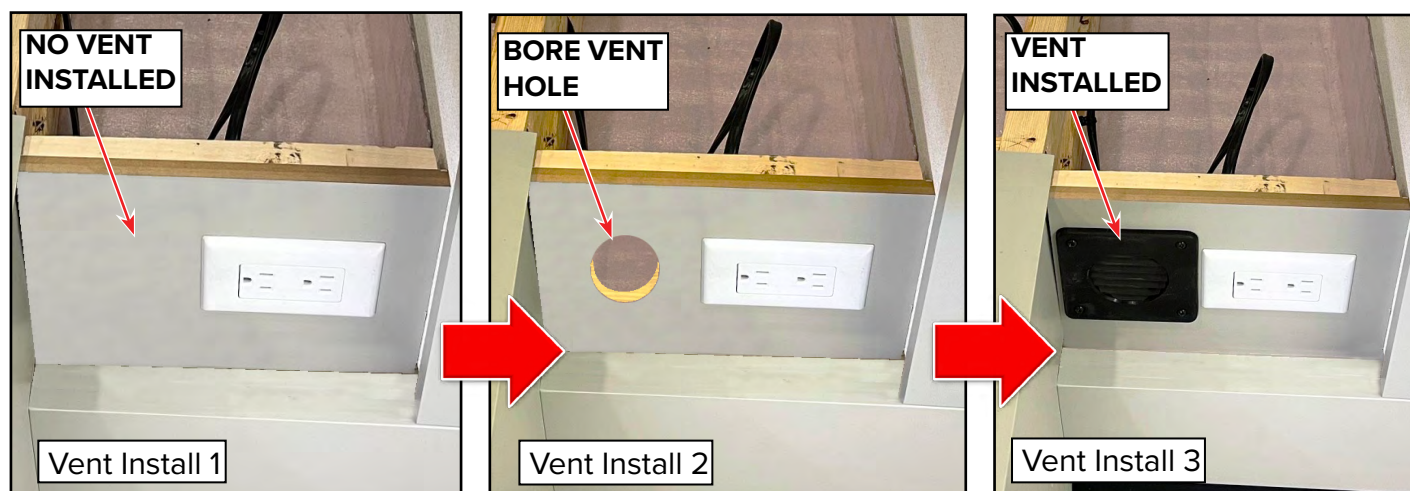
Figure 1c

+ NOTICE

If the bed base vents (Page 3, Figure 1a) are **not present** in the bed base panels, they will need to be installed per the following instructions. If the bed base cavity is insulated with batt style insulation, that insulation will need to be pulled out to allow for proper air circulation from the fans.

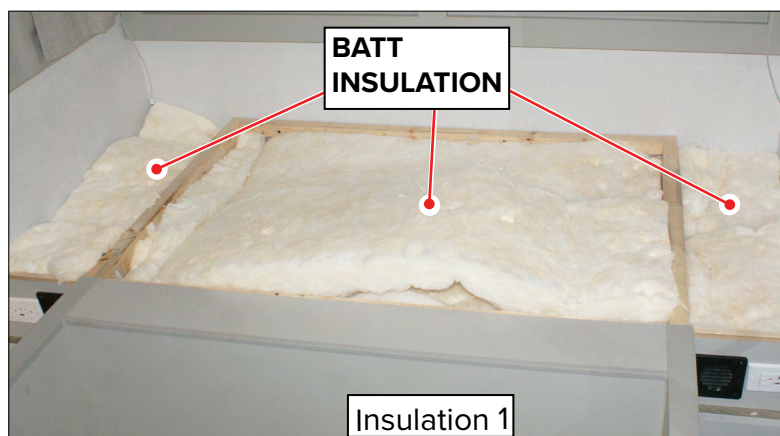
BED VENT COVER INSTALLATION

1. Remove the mattress platform and bed base cover and per instructions beginning on Page 5.
2. Hold the vent cover in place and lightly trace the shape on the panel. Using a power drill and 2" hole saw, bore a hole approximately in the center of the traced shape inboard of the 110 VAC recept in the side panels of the slide out platform (Vent Install 2).
3. Use a screw gun and a #2 square drive bit to install a vent cover (P/N 101633) over the hole using four (4) 8 X 3/4" pan head screws (P/N 101356) (Vent Install 3). Repeat for both sides.



BED BASE CAVITY BATT INSULATION REMOVAL

4. If the bed base cavity is insulated with BATT type insulation (Insulation 1), remove and discard the insulation prior to installation of the fans.



CAUTION: Remove the fuse for the Bedside Lights from the 12 Volt Distribution Center prior to beginning work. Electrical work 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.

WORK INSTRUCTIONS:

1. **READ AND UNDERSTAND ALL INSTRUCTIONS PRIOR TO BEGINNING WORK.**
2. Use a screw gun with an extended #2 square drive bit to remove the fasteners holding the struts, mattress platform, and bed base cover to expose the bed base cavity (Figure 2a, 2b, and 2c).



3. Position one vent fan (P/N 116590) inside the bed base cavity behind one of the existing vent covers (Figure 3). Note the air flow orientation of the fan (Figure 1c, Page 3).
4. Use a screw gun and an extended #2 square drive bit to secure the fan in place using two (2) 1-3/4" pan head screws (P/N 104394) (Figure 4).

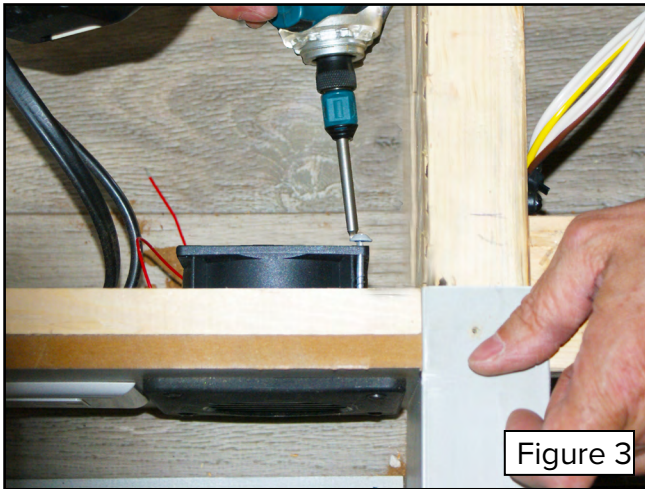


Figure 3

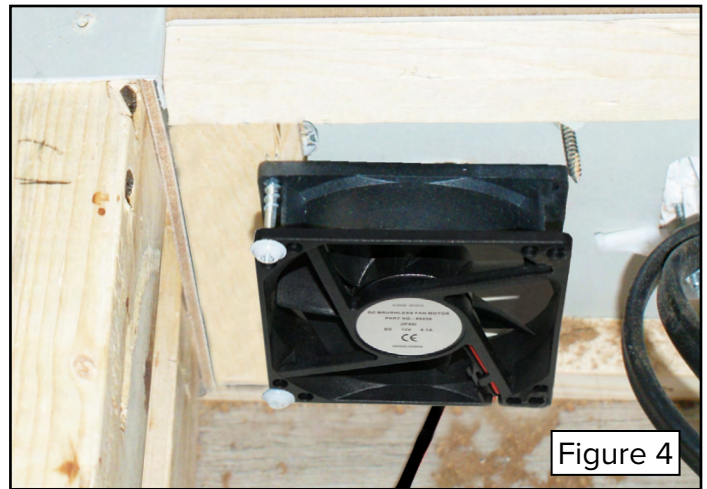


Figure 4

+ NOTICE

Be certain while installing the second fan that it is oriented to provide air flow **OPPOSITE** the first fan installed to promote air circulation in the bed base cavity. One fan should be drawing air into the cavity while the second fan is blowing air out of the cavity. Note the orientation of the air flow of the fans when installing (Page 2, Figure 1c). (NOTE: Bed base cover removed for clarity).

5. Repeat the procedure for the other side of the bed base, taking care to install the fan in the opposite orientation for air flow (Figure 5).
6. Position the second fan (P/N 116590) in line with the existing vent and secure using a screw gun with an extended #2 square drive bit and two (2) 1-3/4" pan head screws (P/N 104394) (Figure 6).

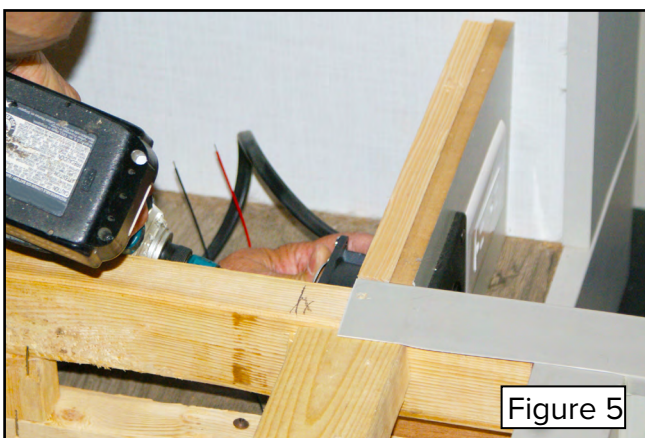


Figure 5

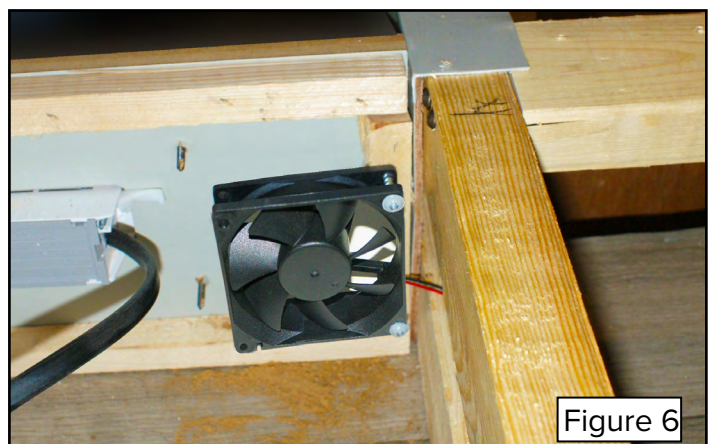
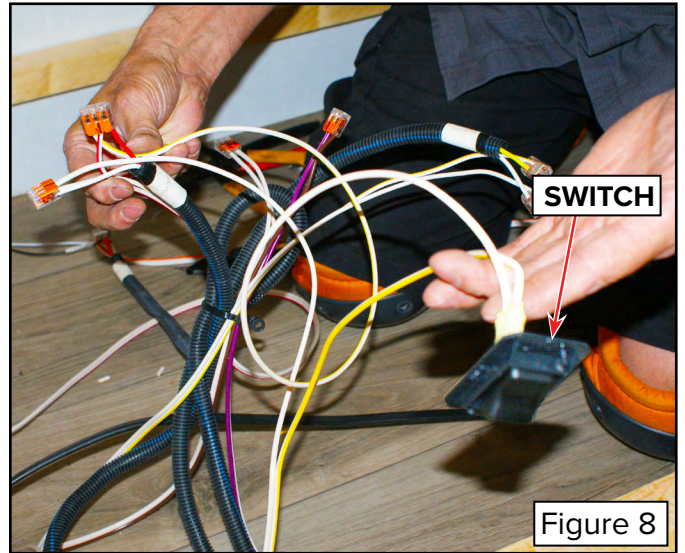
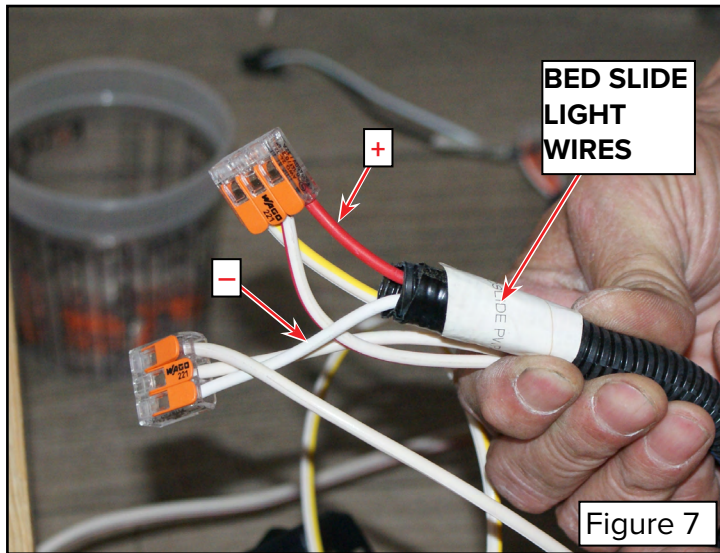
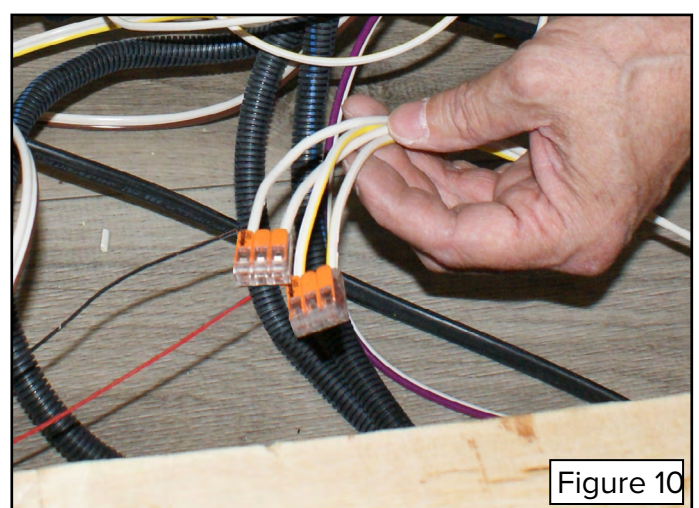
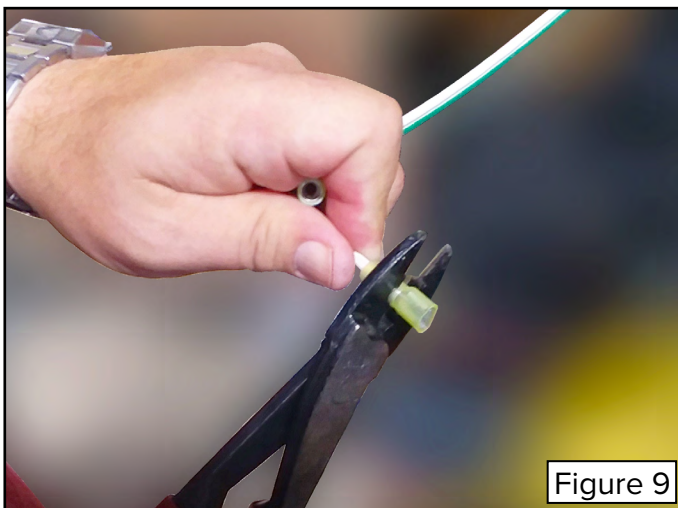


Figure 6

7. Wire the fans to the power source and switch per the wiring diagram on page 8 (Figure 11).
8. Locate the wiring labeled “BED SLIDE LIGHTS”. Pull the RED POSITIVE (+) and WHITE NEGATIVE (-) wires out and insert into 3-lever Wago connectors (P/N 101913) (Figure 7).
9. Use the supplied additional white/yellow 14/2 wiring (P/N 100067) to connect the power from the Bedside Lights to the switch (Figure 8) in the same Wago connectors.



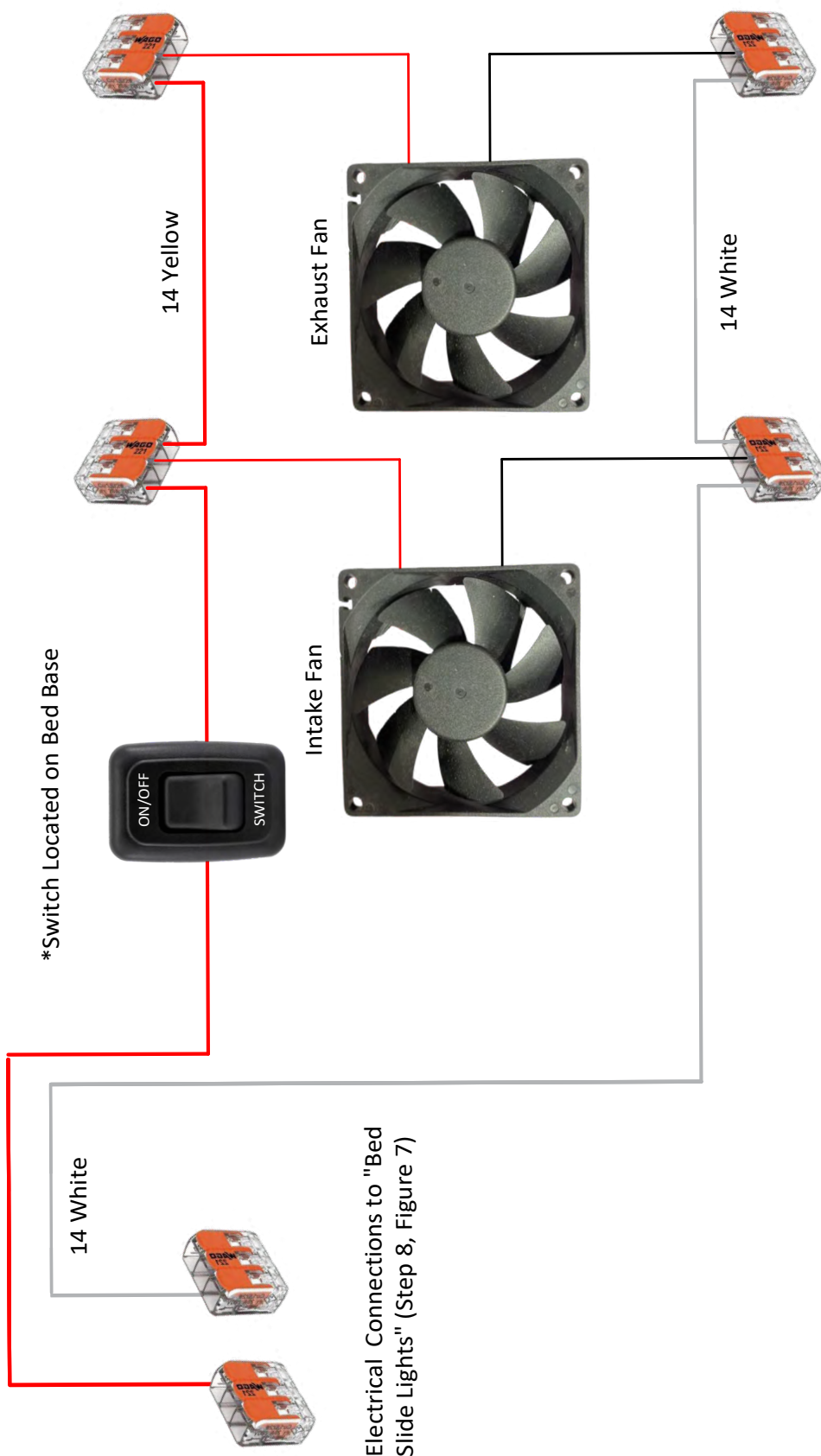
10. Prep the other ends of the white/yellow wires by stripping back 1/4" of insulation, then crimp the 1/4" female spade connectors (P/N 101674) to the wires (Figure 9).
11. Use one (1) 3-lever Wago (P/N 101913) connector for each fan to connect the RED POSITIVE (+) fan wires to the switched side of the supplied power (Figure 10).
12. Use one (1) 3-lever Wago (P/N 101913) connector for each fan to connect the BLACK NEGATIVE (-) fan wires to the WHITE NEGATIVE (-) wire (Figure 10).



13. Reinstall the fuse for the circuit and test operation of fans for proper air circulation - **be certain both fans operate, and air flow is in opposite directions at the fans per the air flow diagram (Page 3, Figure 1a).**

WIRING DIAGRAM

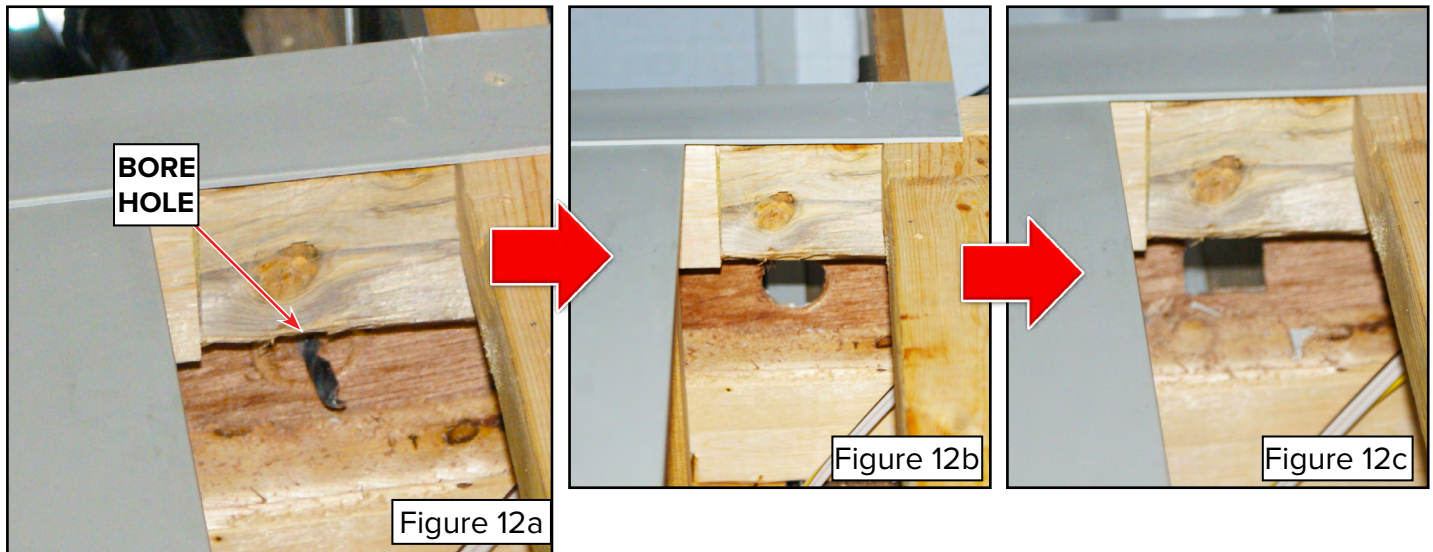
Spliced with "Bed Slide Lights"



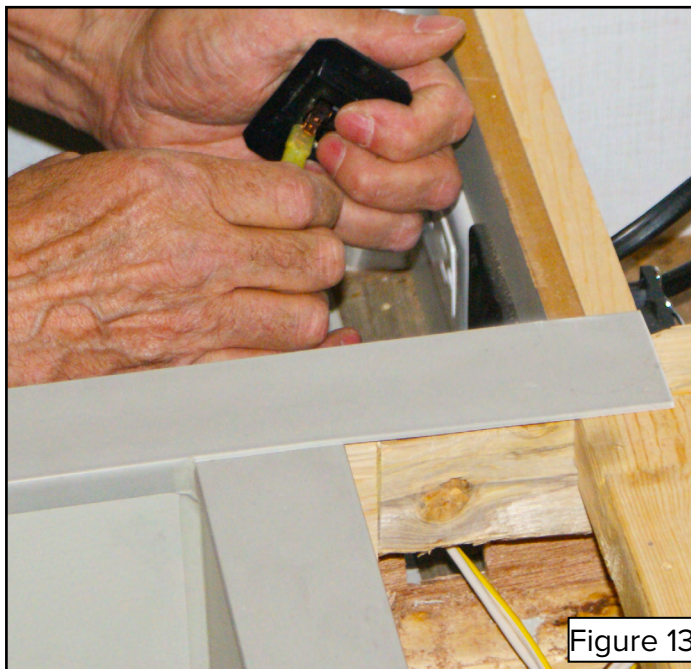
*Intake fan and Exhaust fans are wired with the same polarity as shown here. One fan is mounted pointing the opposite direction to achieve the desired effect

Figure 11

14. Using a screw gun and a 1-1/8" hole saw, drill a hole in the bed base near the panel holding a fan (Figure 12a and 12b).
15. Use a box cutting knife to square out the hole; trim the hole and test fit until it accommodates the switch (Figure 12c).



16. Pass the wiring for the switch through the opening and attach to the switch (Figure 13).
17. Install the switch into the opening. Use a screw gun and a #2 extended square drive bit to secure the switch in place in the opening with the two (2) 8 x 3/4" fasteners (P/N 101356) (Figure 14).



18. Snap the switch cover into place over the switch (Figure 15).
19. Use a screw gun and #2 extended square drive bit to install the bed base cover using the original fasteners. Attach mattress platform to the bed base cover using the original hinges and fasteners (Figure 16).
20. Attach the mattress platform support struts using the original fasteners (Figure 17).
21. Install mattress and bedding to complete the installation.

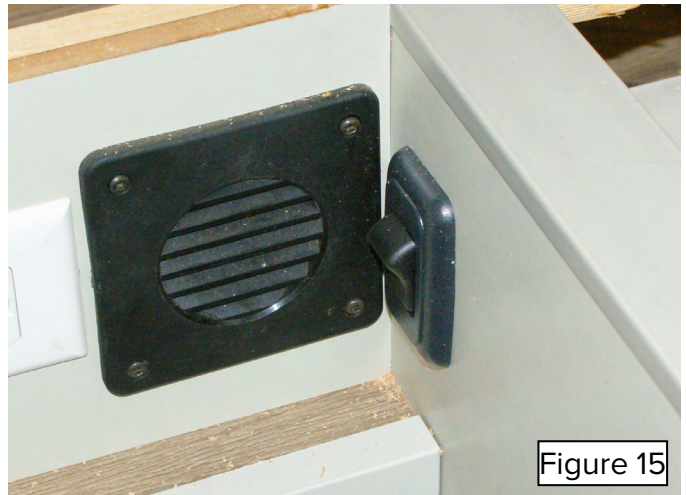


Figure 15

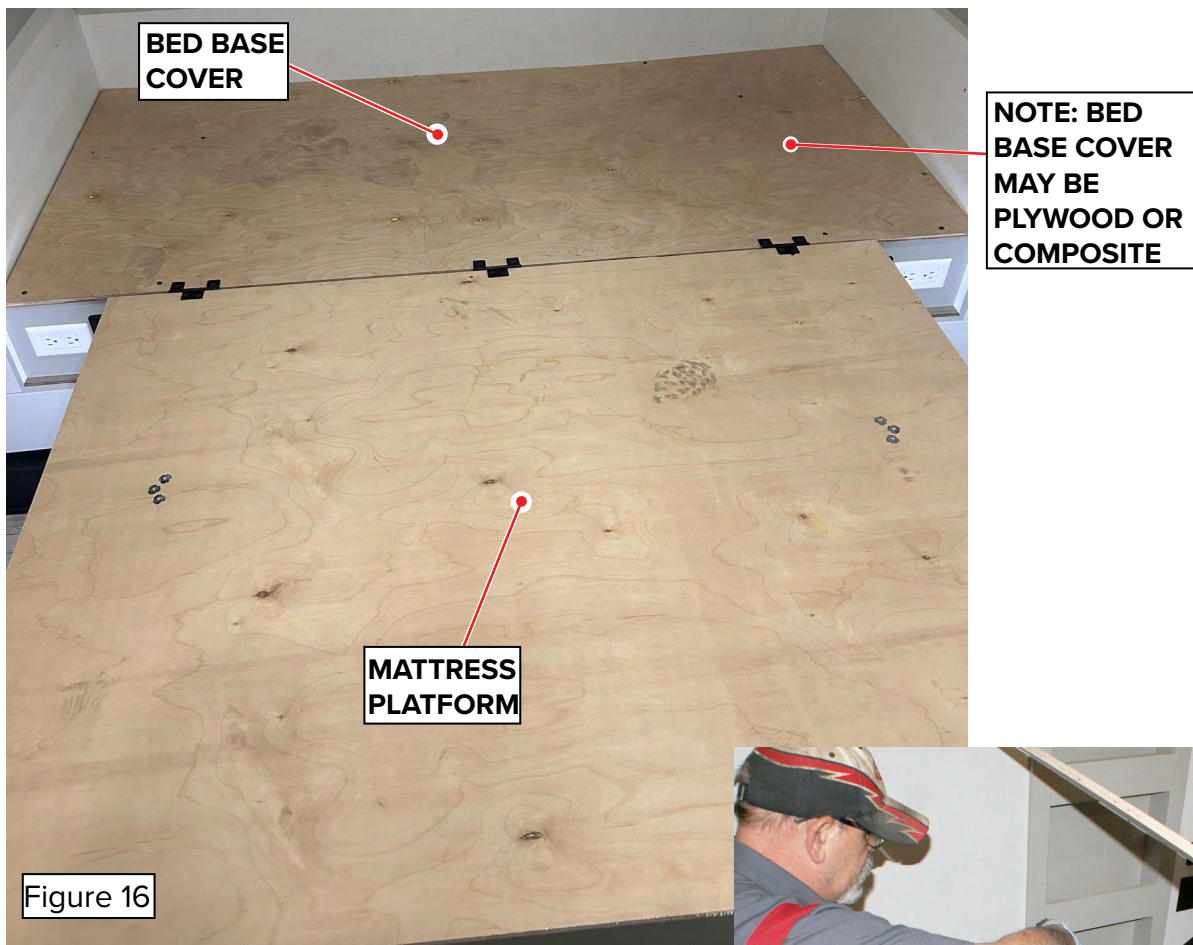


Figure 16



Figure 17