

|                                                                                   |  |                                                                            |             |                                                                                                         |                 |
|-----------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------|-----------------|
|  |  | <b>MODEL Ix SUBURBAN FURNACE<br/>AIR FLOW IMPROVEMENT<br/>INSTRUCTIONS</b> |             | <div><div>4</div><div>3</div><div>2</div><div>1</div><div>0</div></div> <div>Difficulty<br/>Level</div> |                 |
| WI:                                                                               |  | WI-105-2026 Model Ix Suburban Furnace Air Flow Improvement Instructions    |             |                                                                                                         |                 |
| PRODUCT:                                                                          |  | Model Ix 20x                                                               | VIN Range:  | 00001 - Current                                                                                         | REVISION: REV-A |
| DATE:                                                                             |  | August 19, 2026                                                            | LABOR RATE: | 1.5 hr Labor Time                                                                                       |                 |

### Applies to:

Brinkley RV has a procedure to provide additional warm air flow and thermal protection to the furnace compartment in Model Ix 20x floor plan. **The process requires removal and re-installation of the furnace and should be attempted ONLY by professionally trained RV Service Technicians.**

### 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

**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.

### ⚠ WARNING

**WARNING: TURN OFF LP GAS AT THE TANKS AND REMOVE THE FUSE AT THE 12VDC FUSE PANEL BEFORE BEGINNING REPAIRS!** The following procedure requires the LP line to be disconnected from the furnace. If the LP gas is turned on and flowing or if there is residual LP in the lines from the LP tanks, it creates a dangerous explosive atmosphere. Turn the LP off at the tanks and turn on a burner on the stove to eliminate any residual LP in the system. Failure to do so may cause death, serious personal injury, severe product and/or property damage!

## Tools Required:

1. Screw gun
2. 90 degree screw gun
3. #2 Square drive bits (various lengths)
4. Olfa or razor knife
5. Pliers
6. 3/4" Open end wrench
7. Adjustable wrench



## PARTS INFORMATION

### BRINKLEY RV KIT # K132946 MODEL Ix 20x FURNACE AIRFLOW IMPROVEMENT KIT

| PART # | Description                                                                                     | QTY |
|--------|-------------------------------------------------------------------------------------------------|-----|
| 132623 | METAL STRAP 24 X 24 W/ NOTCH 22GA FLAT                                                          | 1   |
| 132539 | VENT GRILLE .375 X 7.5 X 25.5 HDF NATURAL CHOICE                                                | 1   |
| 130155 | REGISTER FLOOR 5 1/4 X 5 1/4 18 GA TEXTURED TUXEDO BLACK PC W/1 3/4 FLANGE W/COUNTER SUNK HOLES | 1   |
| 130154 | REGISTER FLOOR 5 1/4 X 5 1/4 18 GA TEXTURED TUXEDO BLACK PC                                     | 1   |
| 109801 | INSTALLATION INSTRUCTIONS                                                                       | 1   |



Work Instructions: WI-105-2026 Model Ix Suburban Furnace Air Flow Improvement Instructions

Revision Level: REV-A

Product: Model Ix 20x

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## WARRANTY INFORMATION

### ADVANCED CONTACT OR PRIOR AUTHORIZATION REQUIRED

#### CLAIM REIMBURSEMENT PROCESSING:

All reimbursement requests with completed work orders, including any freight expenses and photographs, should be submitted via a claim in the Brinkley RV Dealer Portal. If you do not have access to our Portal, a claim can be emailed to [CustomerCare@BrinkleyRv.com](mailto:CustomerCare@BrinkleyRv.com)

#### REQUIRED INFORMATION FOR IMMEDIATE REIMBURSEMENT PROCESSING INCLUDES:

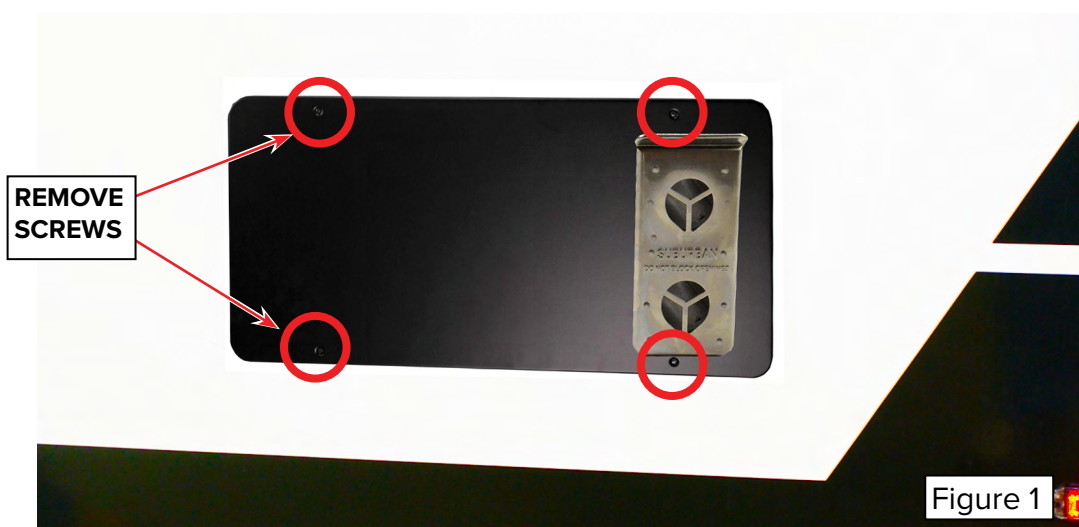
1. The full 17 digit VIN;
2. The Retail Name if retail sold;
3. Dealer Name;
4. Dealer Address;
5. Dealer Phone Number;
6. Dealer Hourly Labor Rate;
7. Work Order detailing the work performed and labor time, and
8. Before and after photographs of the completed repair.

Reimbursement checks for claims submitted with all requested information are issued weekly.

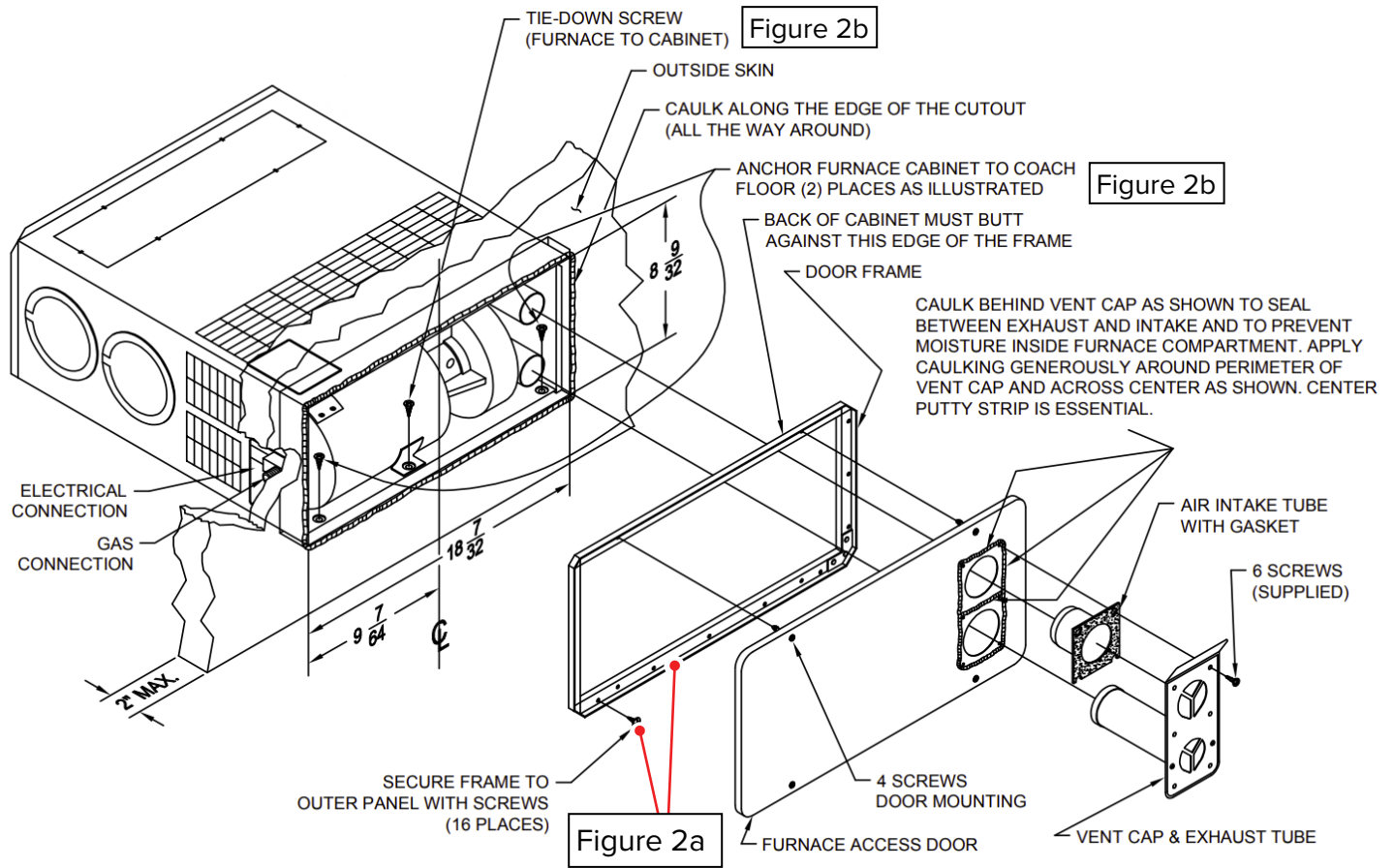
**NOTE:** All images in this instruction are to illustrate the process. Your specific unit may vary slightly, but the process remains the same.

### WORK INSTRUCTIONS

1. **READ AND UNDERSTAND ALL INSTRUCTIONS PRIOR TO BEGINNING WORK.**
2. **Locate the exterior furnace access panel at the rear of the RV. Use a screw gun with a #2 square drive bit to remove the four (4) screws holding the exterior cover on the furnace (Figure 1).**



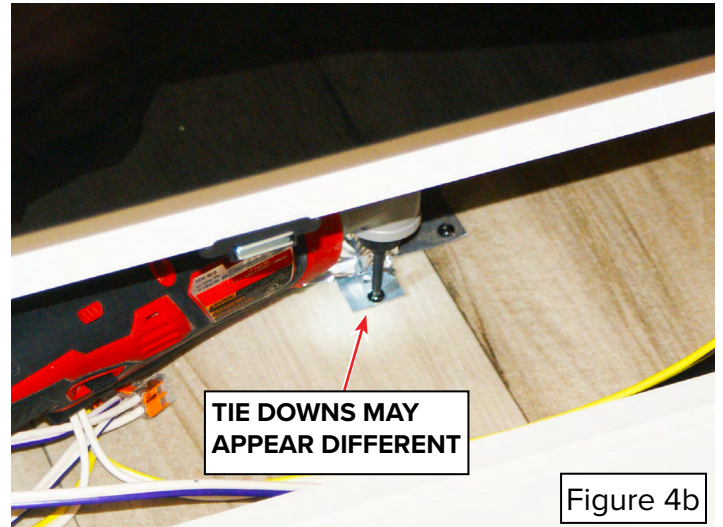
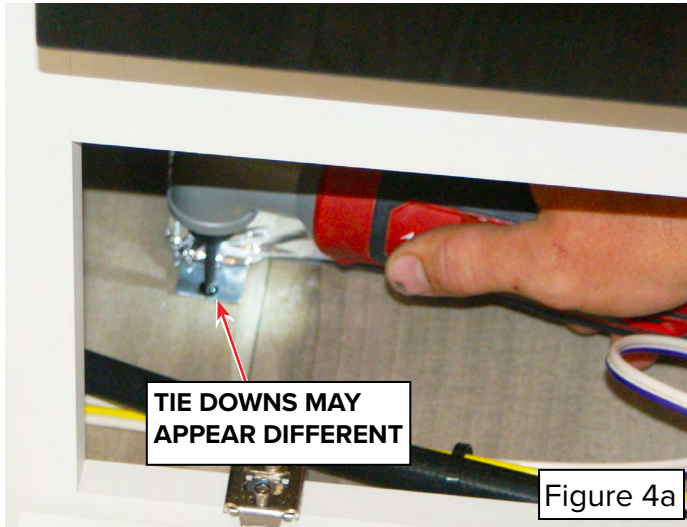
3. With the cover off, use the screw gun and #2 square drive bit to remove the fasteners (up to 16 screws) holding the door frame in the opening (Figure 2a). Remove the door frame.
4. Use a 90 degree screw gun with a #2 square drive bit to remove up to three (3) screws holding the furnace to the floor (Figure 2b).



5. Inside the RV, open the access door below the refrigerator to access the furnace (Figure 3).



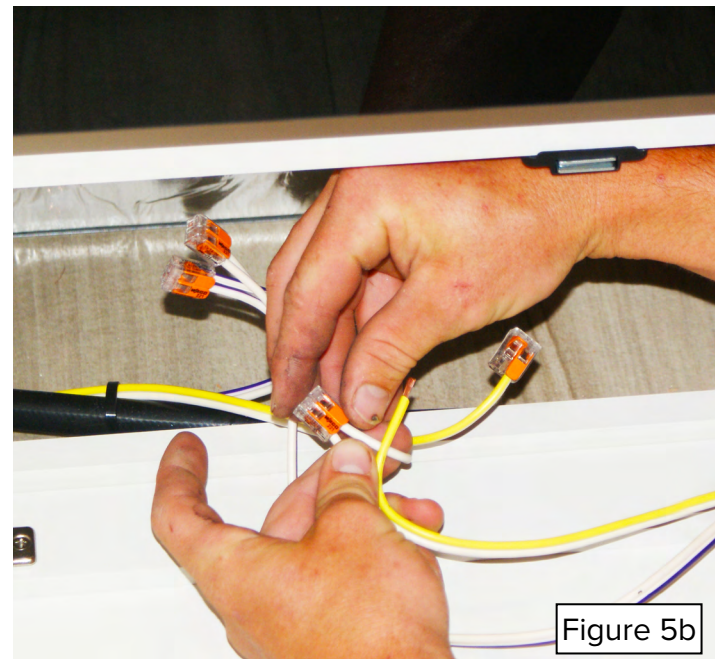
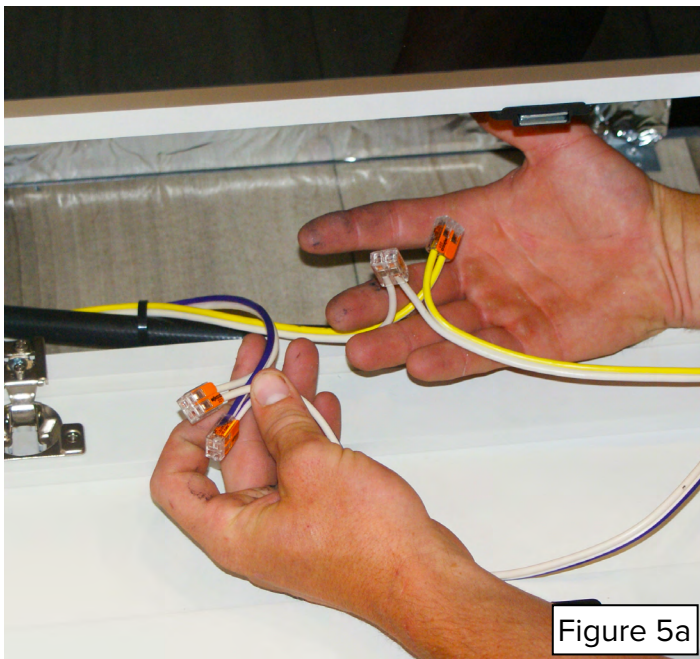
6. Use a 90 degree screw gun with a #2 square drive bit to remove the three (3) screws holding the furnace to the floor (Figure 4a and 4b). NOTE: Tie down may look different!



### ⚠ CAUTION

**CAUTION: TURN POWER OFF TO THE FURNACE** before disconnecting the wiring to the furnace. Disconnect the furnace leads and leave the normally powered lead wires in the WAGO connectors. Failure to do so may cause personal injury, product and/or property damage!

7. Locate and disconnect the wiring to the furnace; leave the WAGO connectors on the power leads (Figure 5a and 5b). Use a screw gun with a #2 square drive bit to release any zip-ties secured to the floor by screws.



8. Disconnect all of the ducts from the furnace by twisting the collars to release them from the heat chamber (Figure 6a, 6b and 6c).

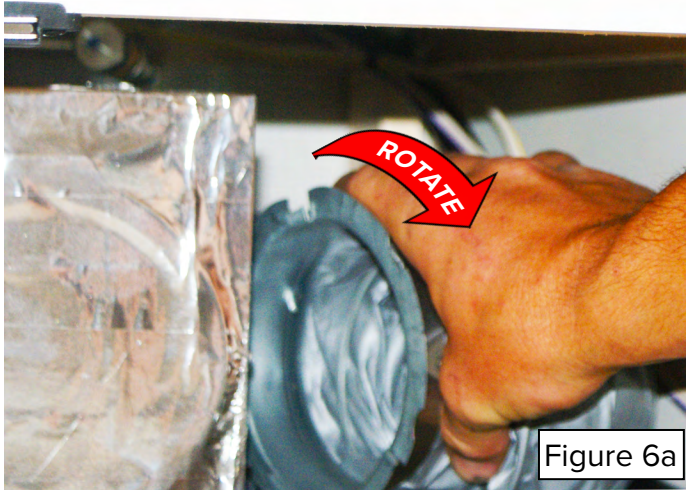


Figure 6a



Figure 6b

### ⚠ WARNING

**WARNING: TURN OFF LP GAS AT THE TANKS AND REMOVE THE FUSE AT THE 12VDC FUSE PANEL BEFORE BEGINNING REPAIRS!** The following procedure requires the LP line to be disconnected from the furnace. If the LP gas is turned on and flowing or if there is residual LP in the lines from the LP tanks, it creates a dangerous explosive atmosphere. Turn the LP off at the tanks and turn on a burner on the stove to eliminate any residual LP in the system. Failure to do so may cause death, serious personal injury, severe product and/or property damage!

9. Use a 3/4" open end wrench and an adjustable wrench to disconnect the LP gas line at the furnace (Figure 7a and 7b).

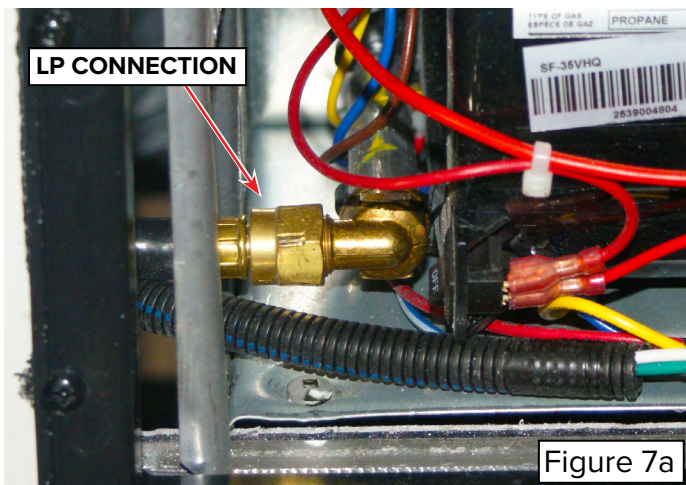


Figure 7a

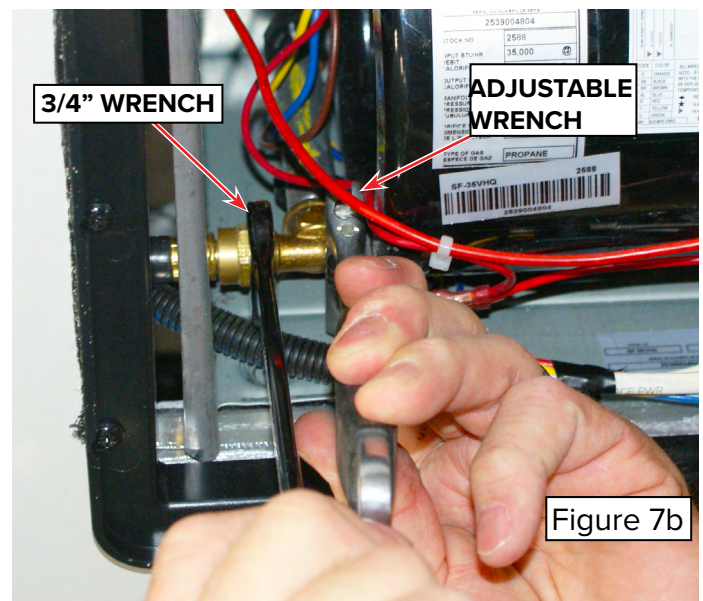


Figure 7b

- 10. Use a screw gun and #2 square drive bit to remove the two (2) screws securing the furnace to the floor (Figure 8). Carefully lift and remove the furnace from the opening (Figure 9).**

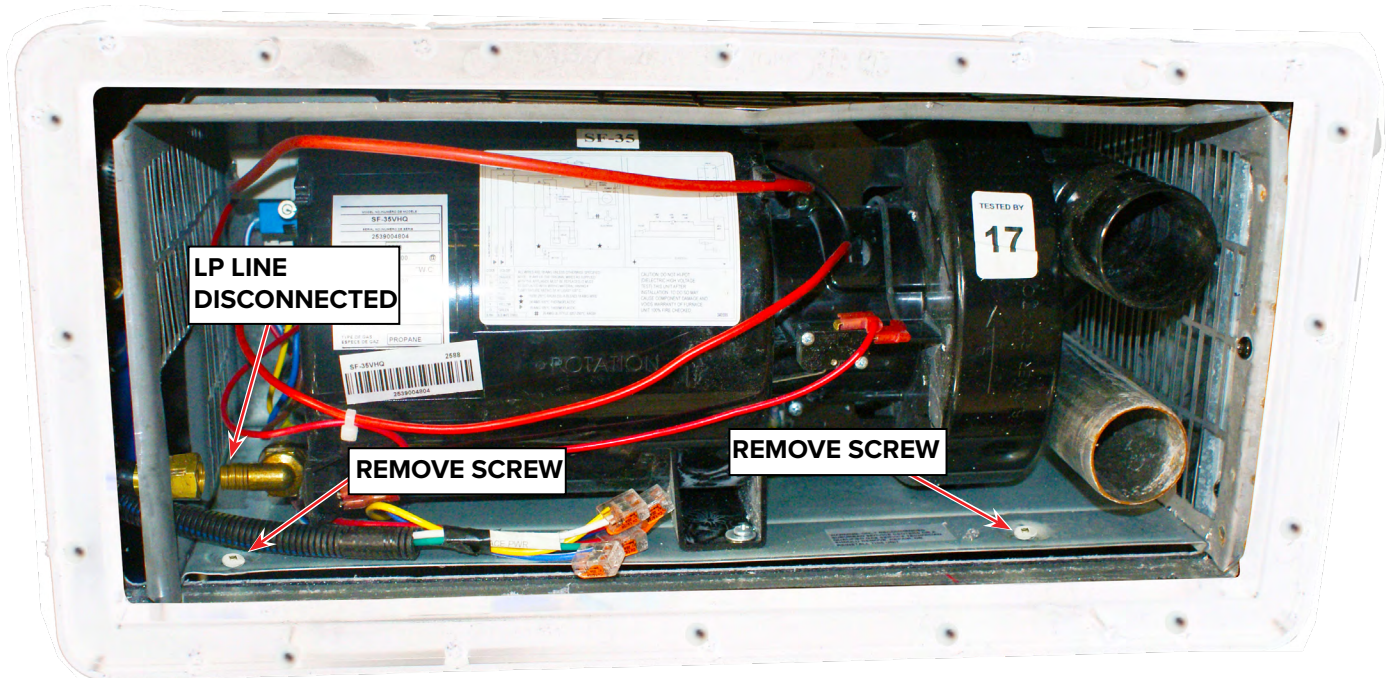


Figure 8

## ⚠ CAUTION

**CAUTION:** Metal edges can be sharp; use caution when removing and installing the furnace to minimize the risk of injury. ALWAYS wear safety work gloves when handling sharp objects.

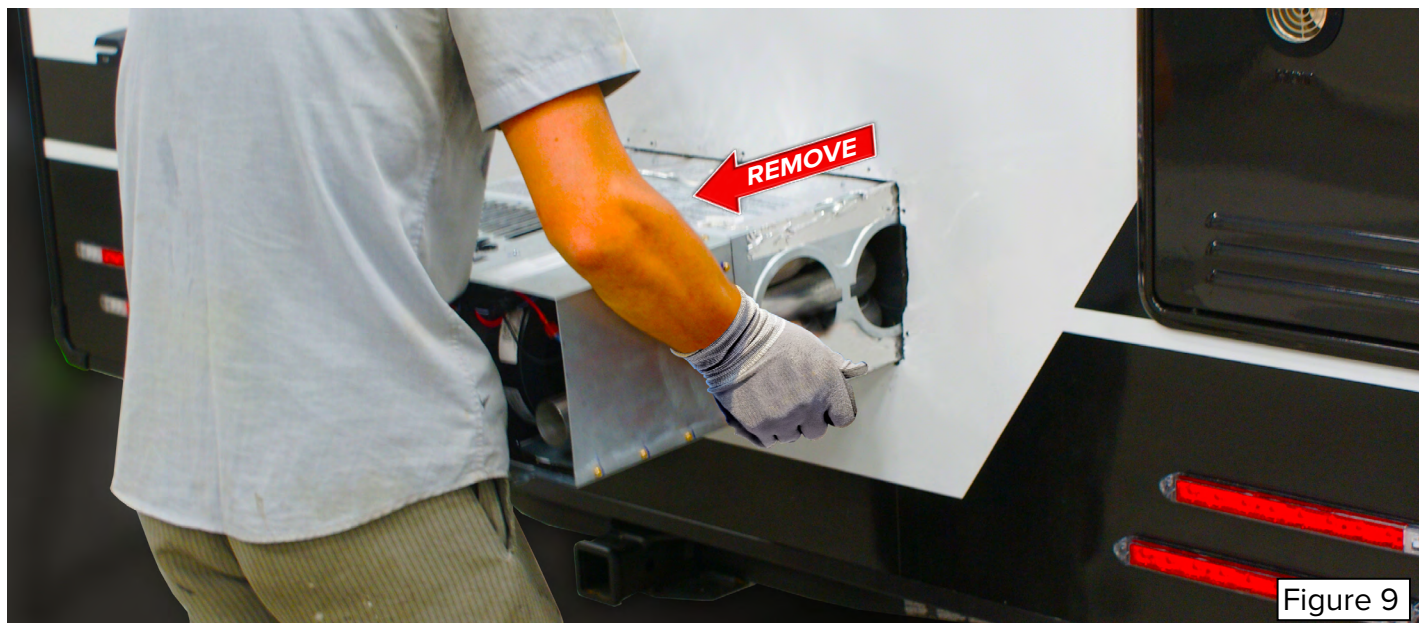


Figure 9



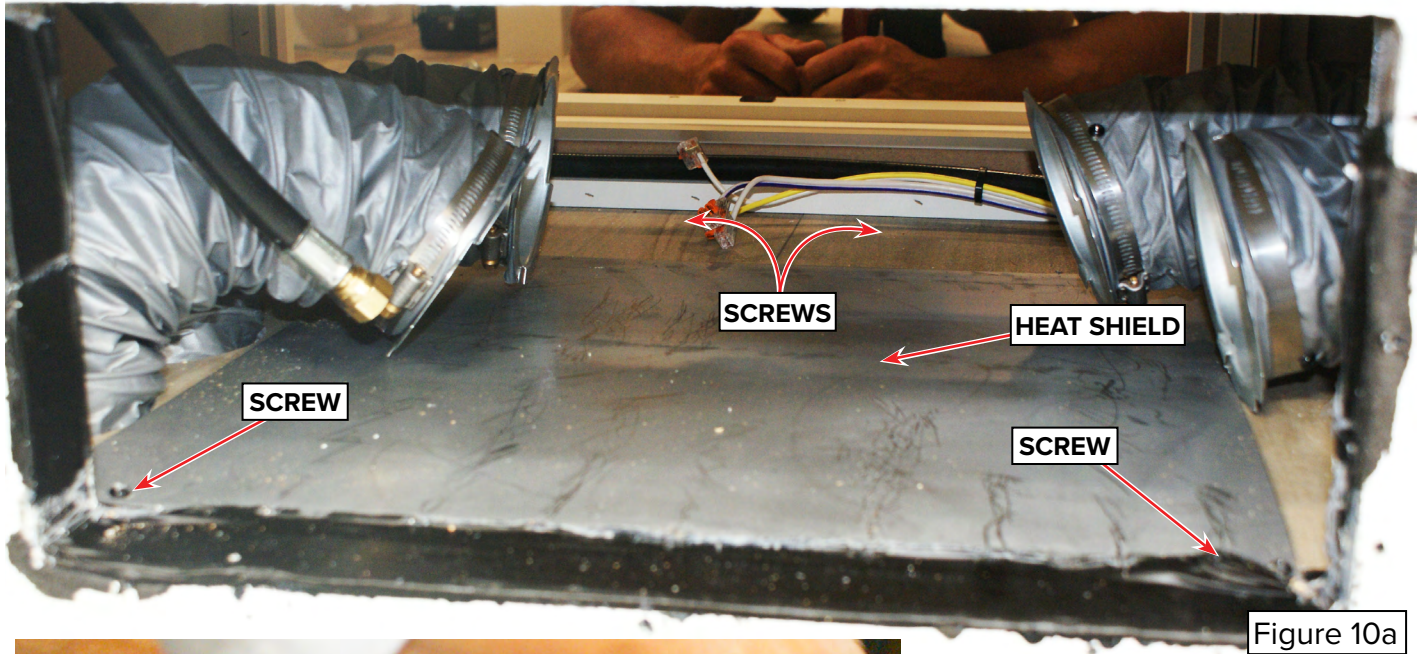
Work Instructions: WI-105-2026 Model Ix Suburban Furnace Air Flow Improvement Instructions

Revision Level: REV-A

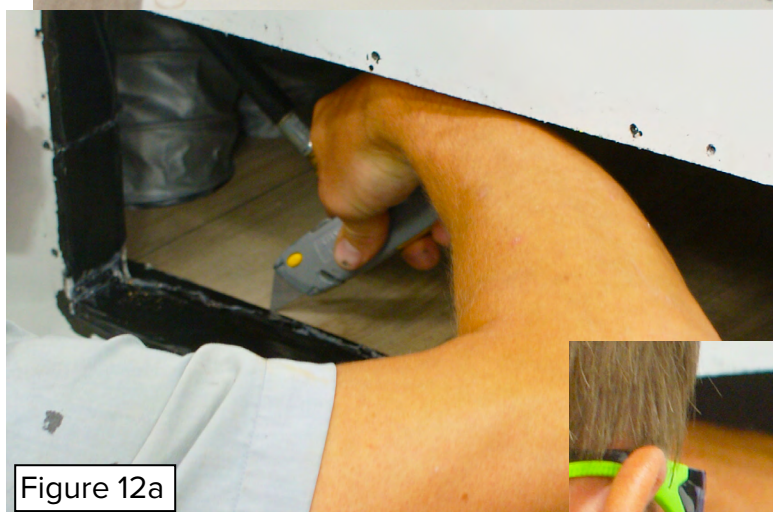
Product: Model lx 20x

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11. Locate the heat shield on the floor below where the furnace was positioned (Figure 10a).
12. Use a screw gun and a #2 square drive bit to remove the four (4) screws - two (2) and two (2) outside (Figure 10b and 10c) - holding the corners of the heat shield on the floor.



13. Remove the heat shield from the furnace compartment (Figure 11).
14. Use an Olfa or similar razor knife to cut the linoleum on the floor of the furnace compartment (Figure 12a, 12b, 12c, 12d and 12e). Cut out all of the linoleum in this compartment.



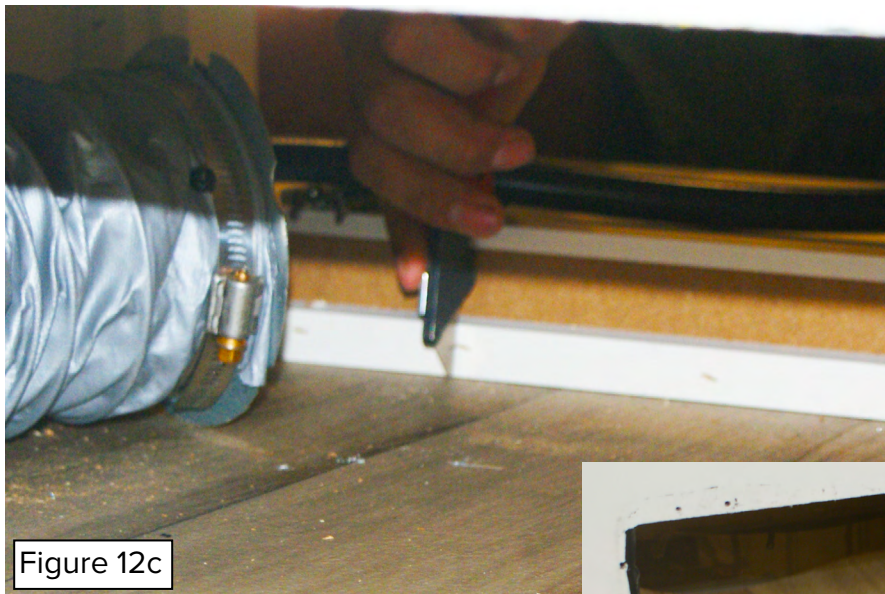


Figure 12c



Figure 12d

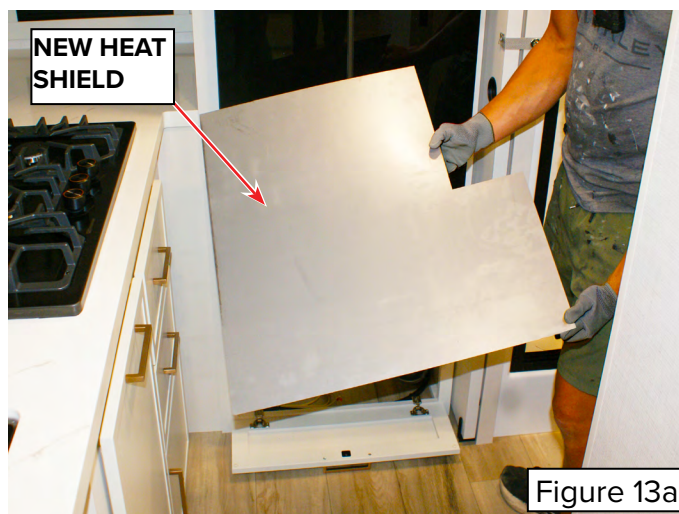


Figure 12e

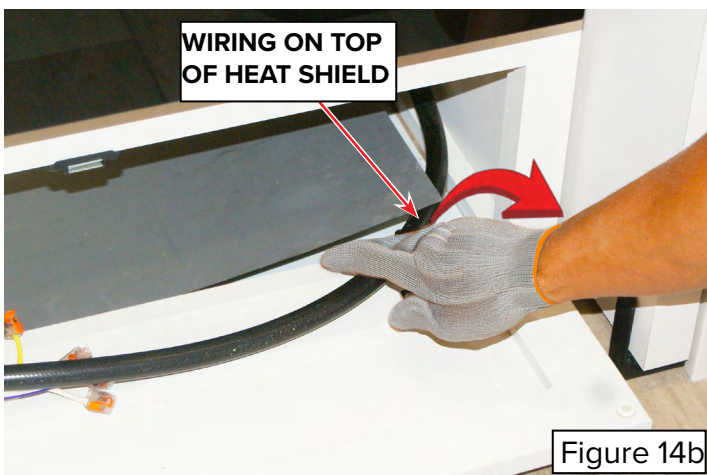
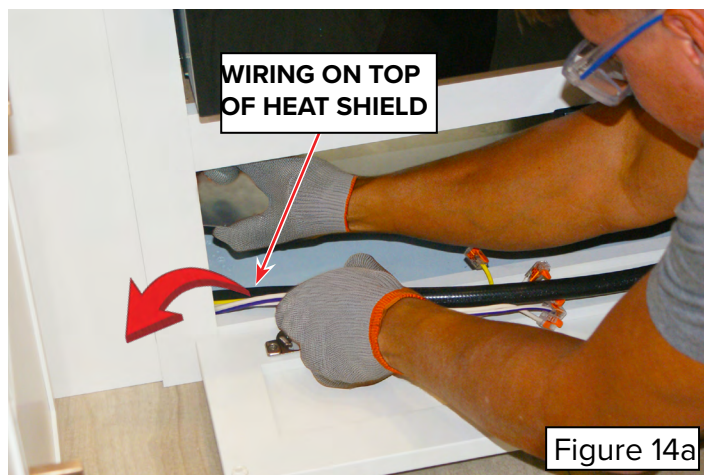
## ⚠ CAUTION

**CAUTION:** Exercise caution when inserting the new furnace heat shield - sharp edges can damage heat ductwork and may cause personal injury, product and/or property damage if not performed safely.

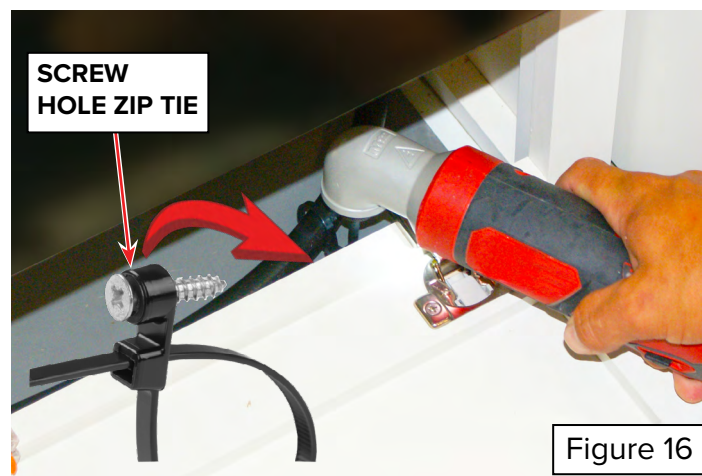
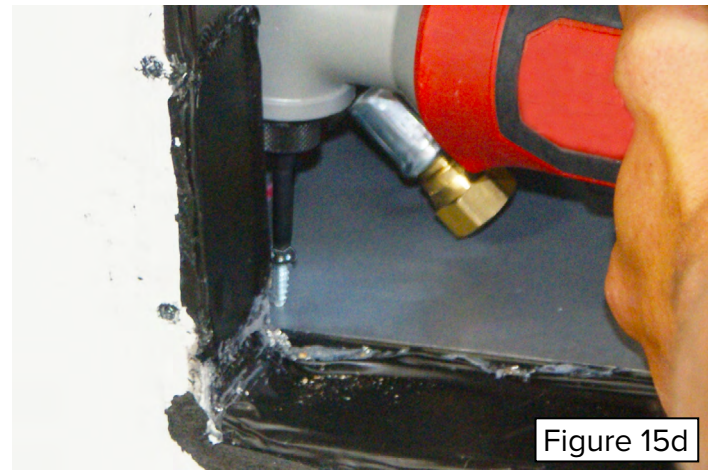
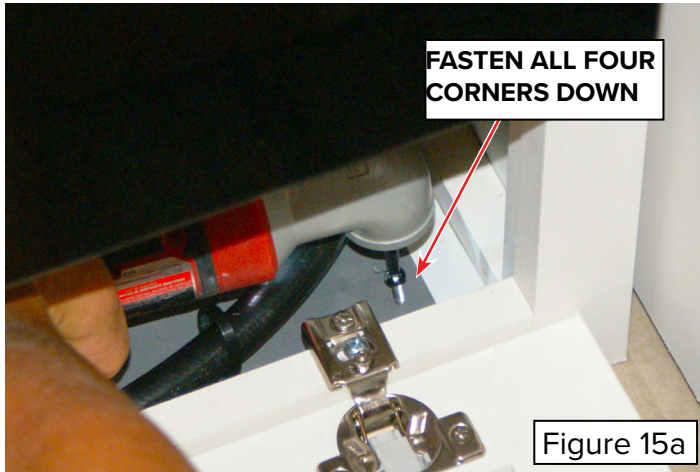
15. When the linoleum has been removed, insert the new furnace heat shield (P/N 132623) into the cabinet and position for installation (Figure 13a and 13b). Be certain the new heat shield is positioned flush to the back wall and centered side-to-side in the cabinet.



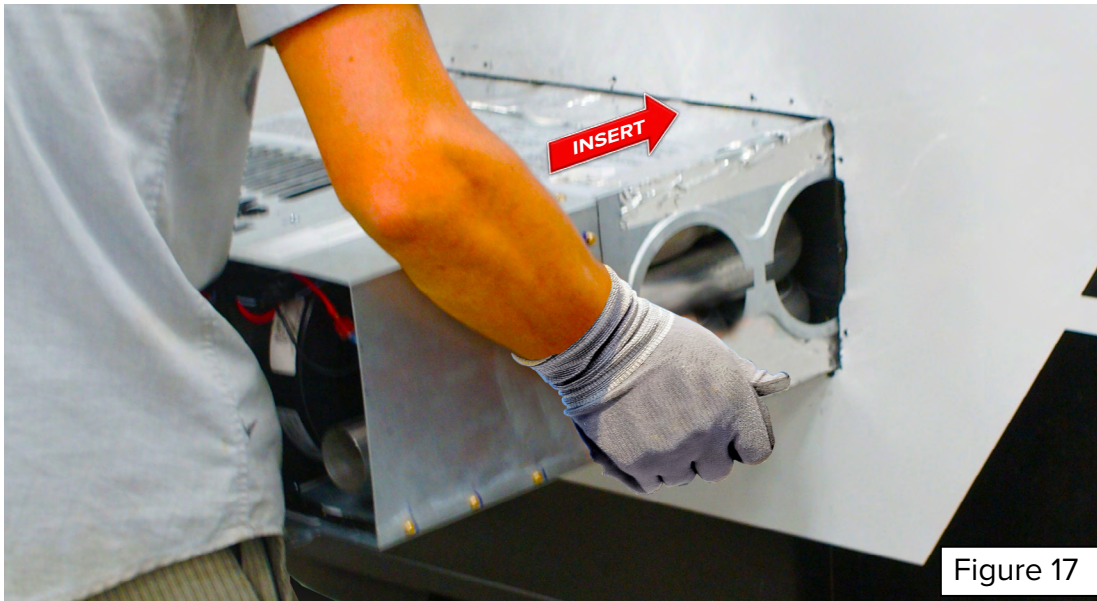
16. Be sure no wiring is trapped under the heat shield before securing the heat shield to the floor (Figure 14a and 14b).



17. Use a 90 degree screw gun with a #2 square drive bit and the original fasteners (X4) to secure the new heat shield at the corners to the floor (Figure 15a, 15b, 15c and 15d).
18. Once the heat shield is secured, attach the wiring harnesses to the floor using the original fasteners through the original screw hole zip ties (Figure 16).



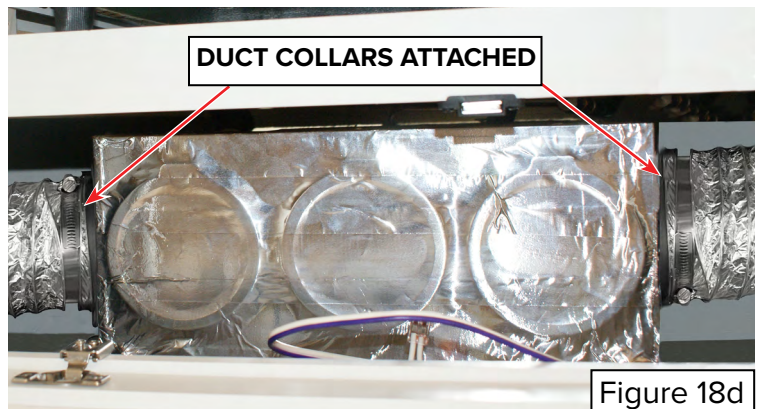
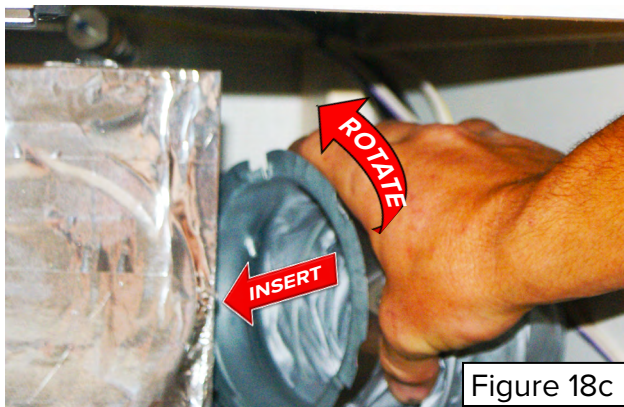
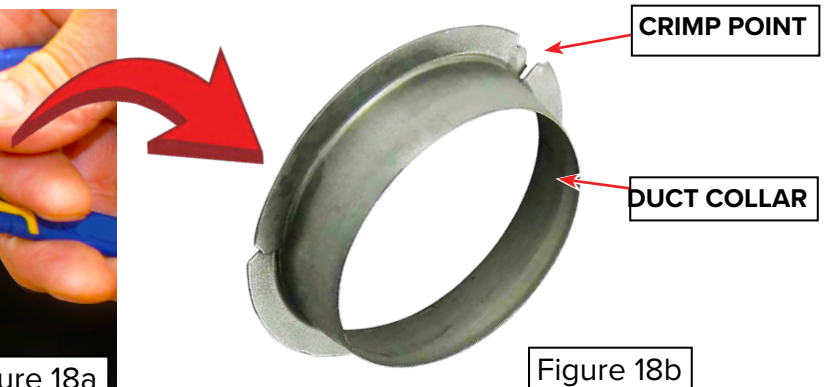
19. With the floor heat shield secured, carefully insert the furnace back into the RV (Figure 17).



20. Inside the RV use pliers to crimp the duct collar slots slightly to provide optimum seal against the furnace (Figure 18a and 18b).

21. Insert and twist the heat duct collars into place on the furnace (Figure 18c).

22. Connect all ducts to the furnace (Figure 18d).



23. Reconnect the electrical wiring to the furnace using the original WAGO connectors (Figure 19).
24. Position the furnace snug to the exterior wall. Use a screw gun and a #2 square drive bit with the original fasteners to secure the furnace through the heat shield to the floor (Figure 20). Repeat the procedure to secure the furnace inside the RV (see Page 5, Figure 4a and 4b).

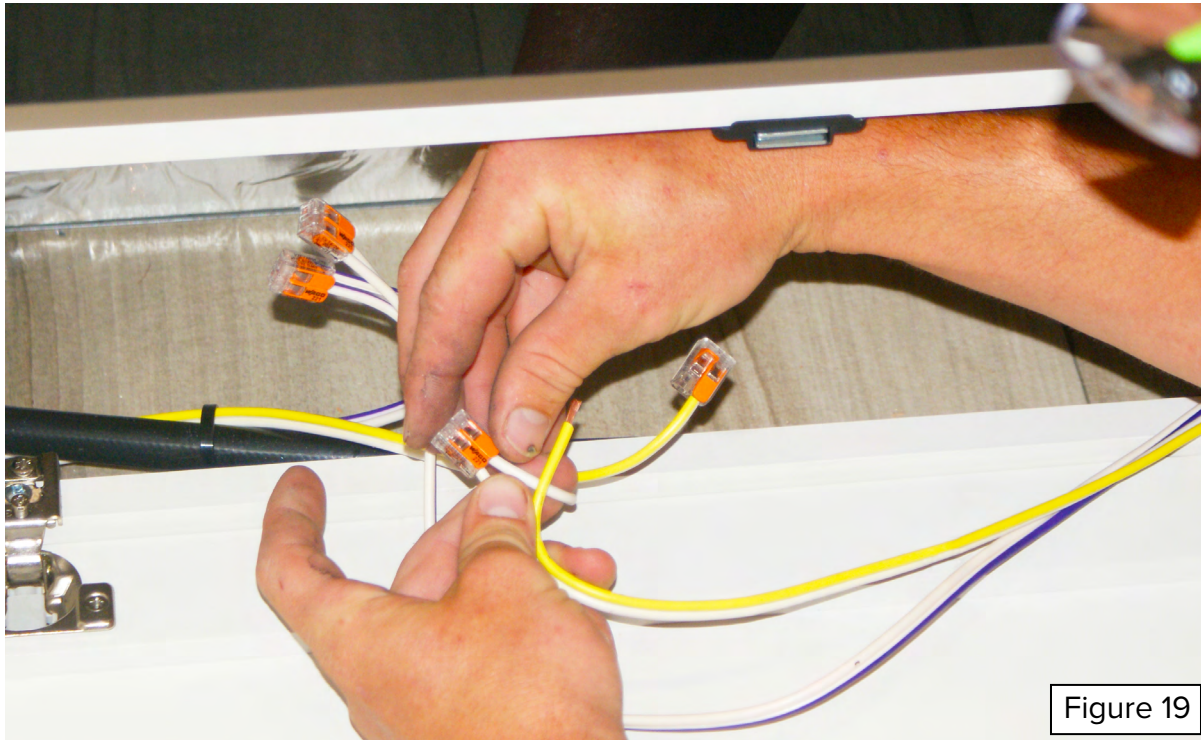


Figure 19

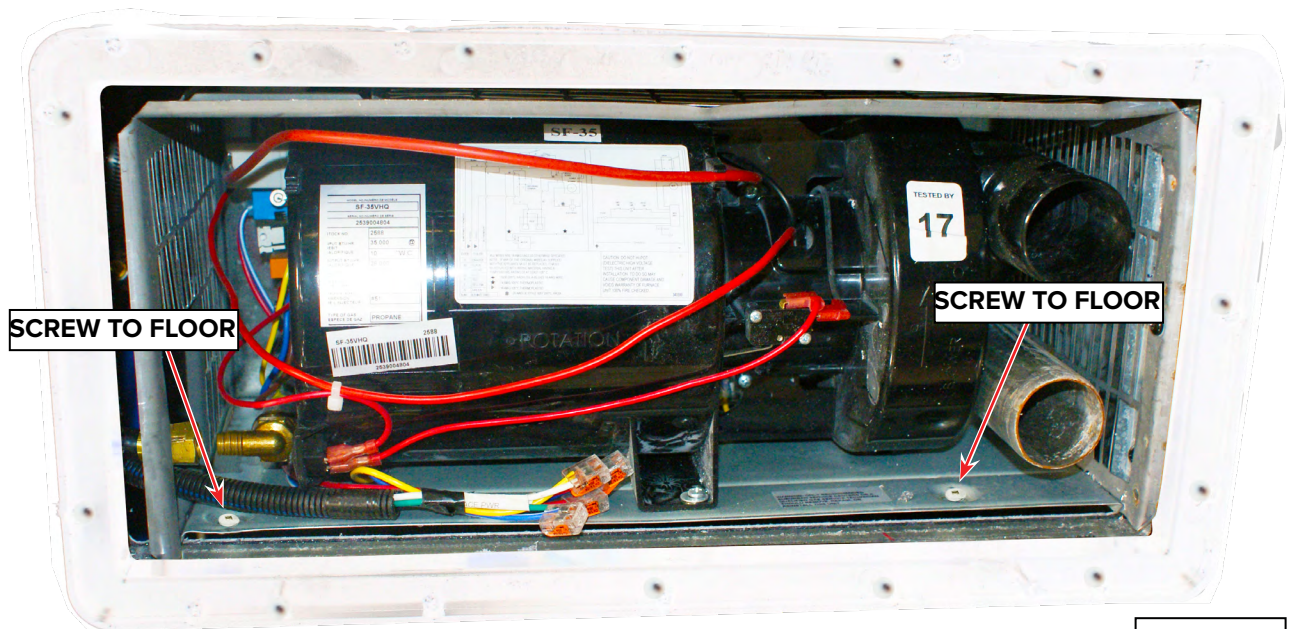
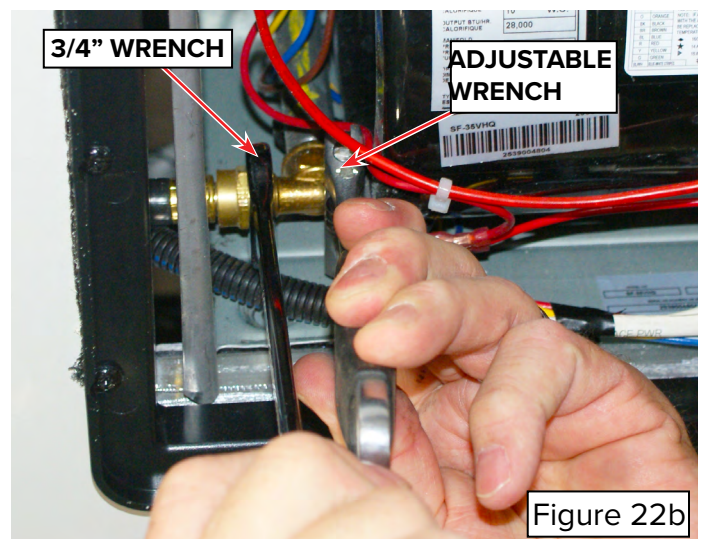
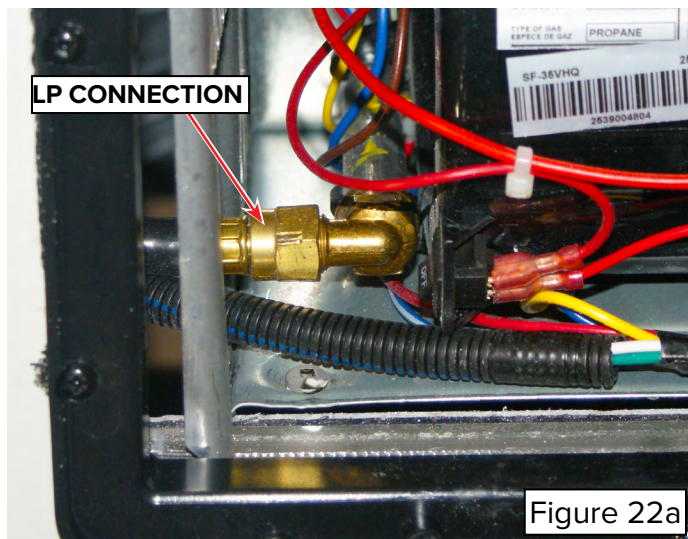
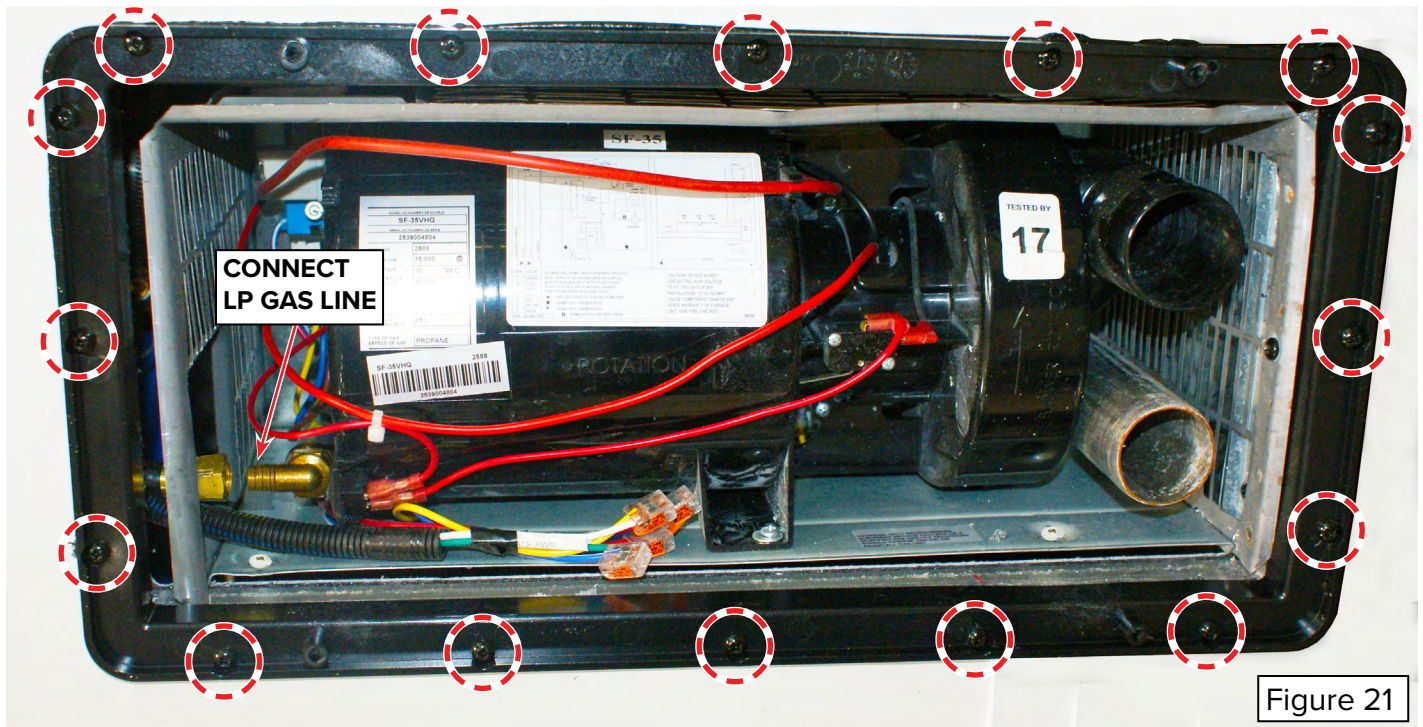


Figure 20

25. Install the furnace door frame using the sixteen (16) original fasteners (Figure 21).
26. Connect the LP line - use a 3/4" open end wrench and an adjustable wrench to hold the furnace LP connection firmly in place. Tighten to snug (no torque spec) (Figure 22a and 22b).

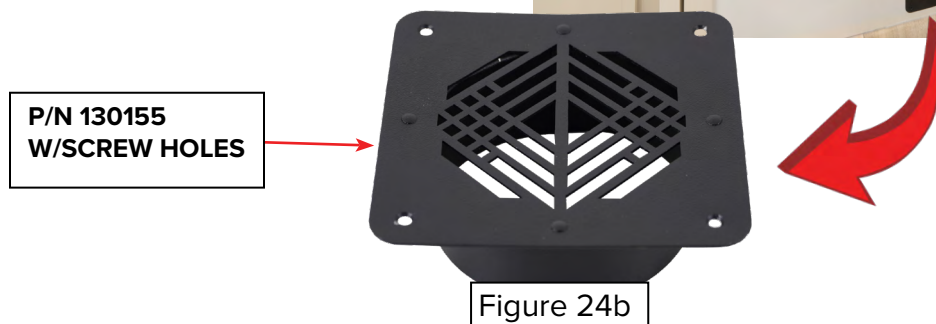
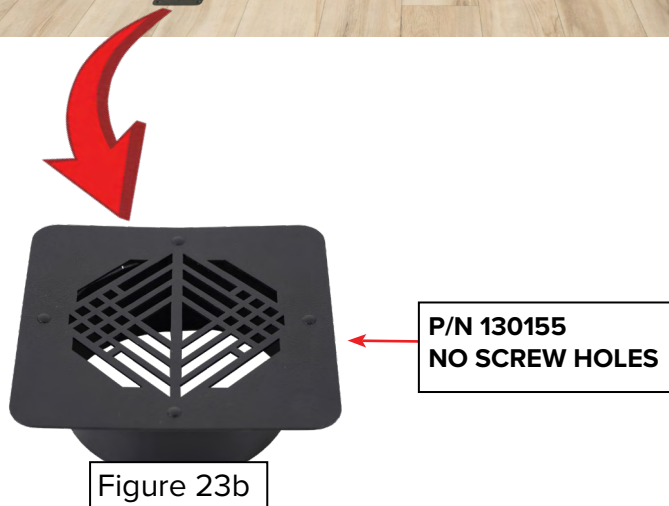


### **⚠ WARNING**

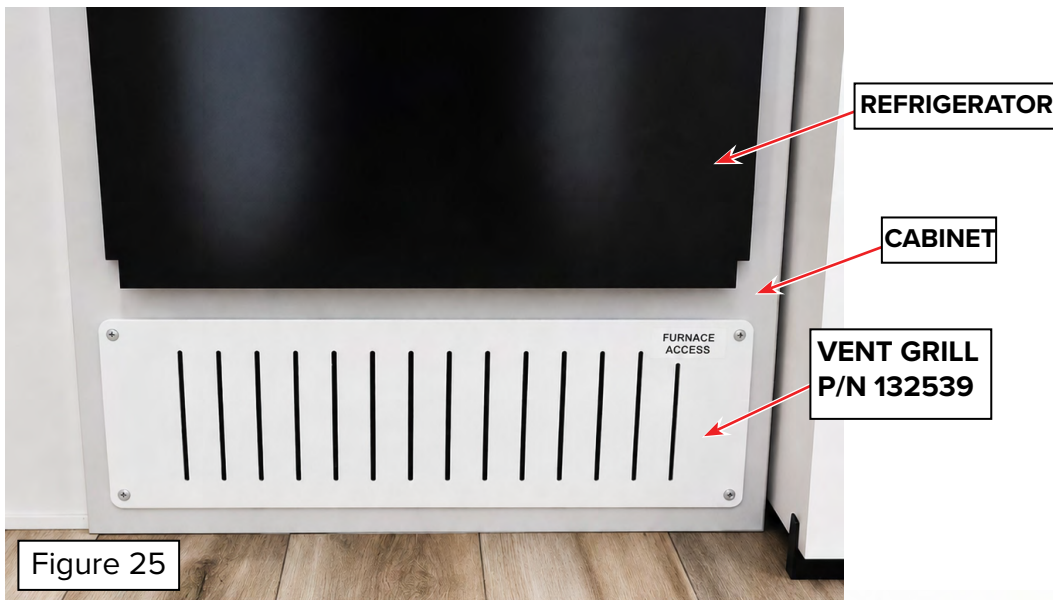
**WARNING: PERFORM AN LP SYSTEM LEAK DOWN TEST** once the LP line is reconnected **BEFORE** attempting to test the furnace operation. Use a low pressure manometer to test for times pressure drops in the system. It is imperative that the LP system be sealed and all LP joints and appliances are checked for leaks. Failure to do so may result in an explosive atmosphere that may cause death, serious personal injury, severe product and/or property damage!



27. Replace furnace registers with the new registers (P/N 130154 - Living room Floor, Figure 23a and 23b) / (P/N 130155 - Bathroom - Shower base - Figure 24a and 24b). Use a screw gun with a #2 bit to secure in place with the original four (4) screws per register where needed.



28. Remove the furnace access door. Install the vent grill cover (P/N 132539) over the opening using the hinge screws from the door hinges (Figure 25),
29. Install the exterior furnace door. Fasten in place with the four (4) original screws (Figure 26).



### ⚠ CAUTION

**CAUTION:** When the LP system has passed the LP Leak down Test, and there is no residual LP gas in the RV, turn the power to the furnace on and test for proper operation. Check the furnace duct connections for signs of hot air escaping from around in the installed collars. This may indicate a duct collar may not be seated completely in the opening on the furnace. Failure to perform these inspections may cause personal injury, product and/or property damage.

30. Repairs complete.

