



BRINKLEY RV TROUBLESHOOTING

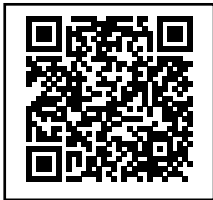
TS-HVAC-015 Models Z - Z AIR - I - Ix Furrion Air Conditioner

MODEL:	Model Z Model Z-AIR Model I Model Ix	REVISION:	REV-D
PART CATEGORY:	HVAC		
TOPIC:	Furrion Air Conditioners		

This document will provide some very common solutions that you, the RV owner, can accomplish safely and easily without having to contact Brinkley RV Customer Care. If the following items do not resolve your issue, please contact Brinkley RV Customer Care (CustomerCare@BrinkleyRV.com or Call 574-501-4285) and we will be glad to assist you.

Scan the QR Codes or click the links below for the user manuals from our vendors for the individual Air Conditioner units we use. If you need help identifying the correct air conditioner for your unit, refer to the tables starting on page 7 and look for your Model, Floor Plan, and VIN.

NOTE: Floor plans with an asterisk (*) next to them and highlighted in red are no longer in production and are limited to dealer stock only.



BRV# 11119
[8K Furrion Chill Cube
Product Support](#)



BRV# 100604
[13.5K Furrion Chill
Low Profile
Product Support](#)



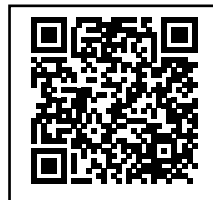
BRV# 103033
[13.5K Furrion Chill HE
Product Support](#)



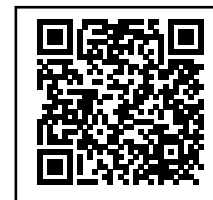
BRV# 115142
[13.5K Furrion Chill
Low Profile R32
Product Support](#)



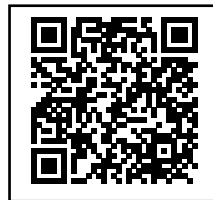
BRV# 100208
[15K Furrion Chill HE
Product Support](#)



BRV# 105460
[18K Furrion Chill Cube
\(no heat pump\)
Product Support](#)



BRV# 115588
[18K Furrion Chill Cube
\(w/ heat pump\)
Product Support](#)



BRV# 116681 & 125125
[18K Furrion Chill Cube
\(Ducted\)
Product Support](#)



Model: Model Z Model Z-AIR Model I Model Ix

Part Category: HVAC

Topic: Furrion Air Conditioners

Revision Level: REV-D Page 1 of 10

Symptom:	Air conditioner will not turn on.
Root Cause 1:	No supply voltage connected.
Solution:	Check the power supply.
Root Cause 2:	Fuse blown or circuit protector tripped.
Solution:	Check the electrical fuse of the power supply.
Root Cause 3:	The AC unit operates on 120V AC power, the control system that turns the unit on and off uses 12V DC power. A loss of 12V power or a communication issue can prevent the air conditioner from operating even when shore power is available.
Solution:	For bedroom air conditioners with a wall thermostat: • Carefully remove the thermostat from the wall (most models twist or pull away from the mounting plate). • Inspect the wiring connections behind the thermostat and ensure all connections are secure. • Verify that your RV's 12V system is functioning properly and that battery disconnect switches are in the correct position.
	For Furrion Chill Cube air conditioners: • Replace the batteries in the remote control and try operating the unit again. • If the issue persists, inspect the connections at the control box located behind the Air Distribution Box (ADB). Loose or disconnected communication cables may prevent the air conditioner from receiving commands. • Refer to the wiring and control box illustrations in the Furrion Chill Cube Owner's Manual for connection locations and component identification. • If the air conditioner still does not respond after performing these checks, please contact Customer Support for additional troubleshooting assistance.



Symptom:	Not cooling well (all units)
Root Cause 1:	The rooftop air conditioner is not set to cooling.
Solution:	Set the rooftop air conditioner to cooling. Sometimes the system may be set to “Fan Mode” instead, which will circulate air without providing direct cooling. Please note that the system works best when the indoor temperature is kept within 20 degrees of the outdoor temperature.
Root Cause 2:	The set temperature is too high.
Solution:	Select a lower temperature. For the best performance, we recommend setting the fan to run continuously rather than using Auto mode. Continuous fan operation helps circulate air throughout the RV and allows air to move across the temperature sensor more frequently, which can improve temperature sensing and overall cooling performance.
Root Cause 3:	The air intake grilles are blocked or obstructed.
Solution:	Remove any leaves and other dirt from the ventilation grilles of the rooftop air conditioner. If the rooftop air conditioner is blocked by leaves, debris, dust, or other obstructions, airflow can be restricted and the cooling performance will suffer. Clear away anything blocking the airflow and test the system again. A video demonstrating the proper way to thoroughly clean your AC unit can be viewed here: Furrion AC Cleaning
Please note that RV air conditioners may have limitations in extremely hot weather. During periods of high outdoor temperatures, direct sunlight, or high humidity, the air conditioner may run continuously and still require additional time to maintain a comfortable interior temperature.	
Symptom:	Not cooling well (Z-AIR 295 Bunkhouse Only)
Root Cause:	Certain Z AIR 295 units have limited air flow from the living room A/C to the bunkhouse. This condition is caused by a misrouted duct from the A/C to the ceiling register in the bunk room.
Solution:	On the Model Z-AIR 295 VINs 000002 - 000120: Check to see if CSC-2403 has been completed.

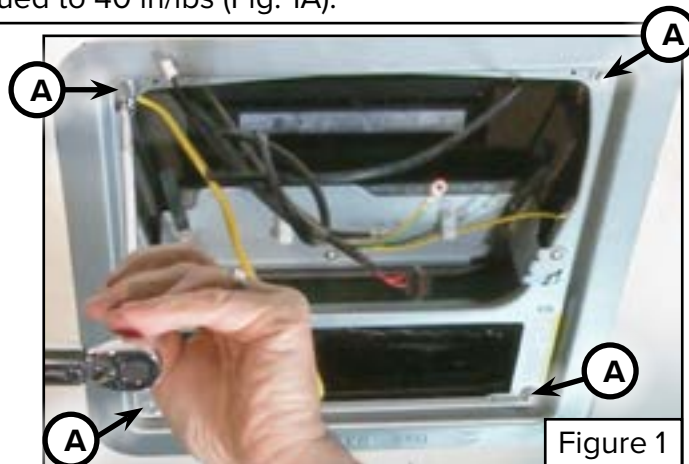


Symptom:	Rooftop air conditioner constantly switches itself off.
NOTE: For the best performance and the most consistent temperatures, we recommend running your AC fan in the “on” mode rather than “auto” whenever possible. This helps keep air circulating throughout the coach and reduces temperature swings. It’s also normal for your Furrion air conditioner to cycle on and off as it works to maintain the temperature you’ve selected. Depending on outdoor conditions, the unit may run for an extended period before shutting off and then restart as the RV warms up. However, if the air conditioner is only running for a few minutes before turning off and then quickly restarting, this may be considered short cycling. True short cycling typically occurs when an air conditioner runs for only 30 seconds to 1 minute before shutting off. In general, run times of 5 to 8 minutes are considered normal, especially as your unit approaches the desired temperature. If your AC is consistently shutting off in less than 5 minutes, it may be worth investigating further to ensure the system is operating as intended.	
Root Cause:	Freeze sensor has tripped.
Solution:	This may be caused by poor airflow, high humidity, or cold outside temperatures. For optimal performance, make sure that the vents and dampers are at least partially open. Try to run the fan on high until any freezing issues are resolved. Also, using dehumidifiers can be beneficial for controlling moisture levels. Once airflow is restored, the unit should resume normal operation. Dry Mode works differently from standard cooling mode. When you choose Dry Mode, the system is meant to lower the humidity inside the RV. If the room temperature is higher than the thermostat setting, the compressor will keep running to remove moisture from the air. Once the room temperature falls below the set point, the compressor will turn on for about 10 minutes and then off for about 6 minutes, while the fan stays on at a low speed. This behavior is intentional, so you might notice that the system acts differently compared to normal cooling mode. This is normal and helps make the RV more comfortable by reducing humidity levels.

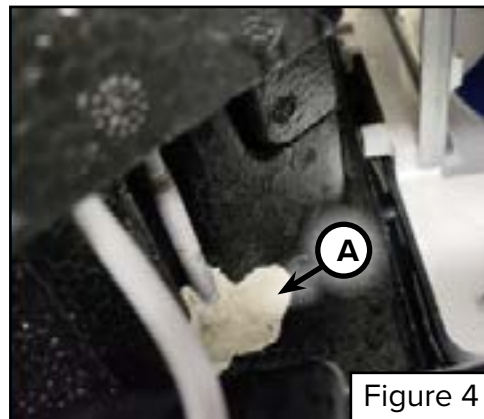
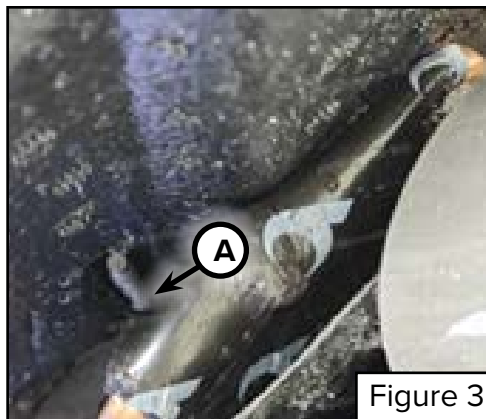
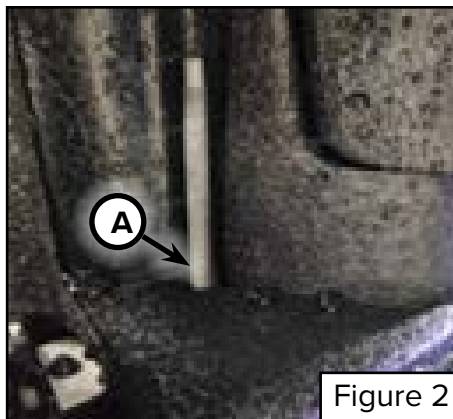
Symptom:	Water enters the vehicle from the Air Conditioner.
Root Cause:	The condensation water drainage openings are clogged up.
Solution:	Clean the drainage openings for condensation water.
Root Cause 2:	Warm air from the intake side of the unit is leaking past the internal baffle and into the cold air output side of the unit.
Solution:	Use foil tape to seal the internal baffle. Click here: Furrion Chill Cube AC Condensation or scan the QR Code to watch a video on how to perform this procedure.



Root Cause 3:	Mounting bolts are incorrectly torqued.
Solution 3:	Remove the Air Distribution Box cover and ensure that the four (4) mounting bolts are torqued to 40 in/lbs (Fig. 1A).



Root Cause 4:	Water is leaking past the seal on the rear mounting bolts. <i>(BRV# 105460 / FACR18VSSA-PS manufactured prior to December 2024 ONLY. Refer to the charts on pages 2 - 4 for your specific unit). In December 2024, a change was made so that the black foam around the evaporator also encapsulates those bolts).</i>
Solution 4:	To perform this procedure, you will need to climb onto the roof of your unit. Use all appropriate safety equipment and processes for climbing the ladder and for working on an elevated platform, including (but not limited to): non-slip shoes, safety harness, safety glasses, gloves. 1. On the roof of the unit, remove the top shroud of the AC unit. 2. Locate the ends of the rear mounting bolts. These are the long bolts used to attach the AC unit and the interior Air Distribution Box together to the roof (see Fig 2A, 3A). 3. Apply sealant where the bolts protrude through the black foam. Use butyl putty or RV Caulk sealant (see Fig. 4A). 4. Reinstall the top shroud of the AC unit.



Symptom:	Water enters the vehicle from the Air Conditioner (continued from previous page)
Root Cause 5:	Evaporator foam is not completely mating up, causing a small gap. <i>(BRV# 105460 / FACR18VSSA-PS manufactured prior to December 2024 ONLY. Refer to the charts on pages 2 - 4 for your specific unit). In December 2024, a change was made to the black foam around the evaporator.</i>
Solution 5:	To perform this procedure, you will need to climb onto the roof of your unit. Use all appropriate safety equipment and processes for climbing the ladder and for working on an elevated platform, including (but not limited to): non-slip shoes, safety harness, safety glasses, gloves. 1. On the roof of the unit, remove the top shroud of the AC unit. 2. Inspect the rear right corner (facing front of unit) of the mating top and bottom evaporator housing (see Fig. 5). 3. If it appears to be bulging out, it is possible that a small gap exists. This gap could be just wide enough for strong wind to blow a small amount of water through the housing gap. 4. Apply caulk tape to the corners to ensure a good seal (see Fig. 6) and reassemble.

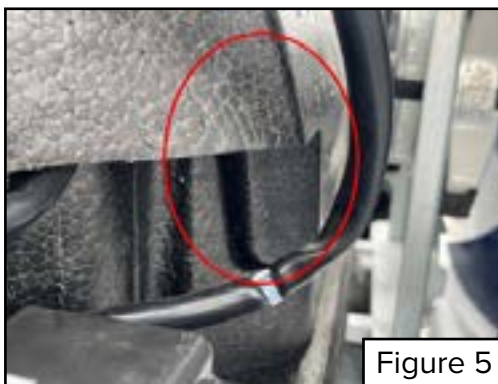


Figure 5

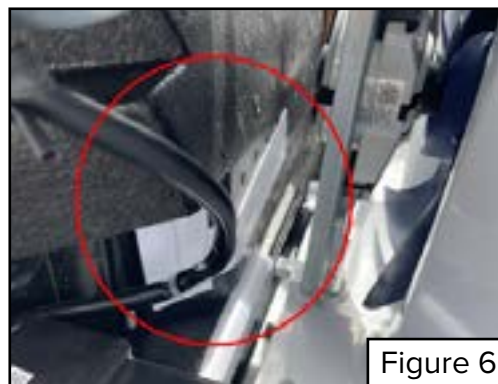


Figure 6

Model	Floor Plan	Location	BRV#	Furrion Code	Vendor #	VIN Range
Z	2670*	Main	105460	FACR18VSSA-PS	2023010866	3768 - 8052
		Main	115588	FACR18HEPA-PS	2025003162	8978 - 010746
		Bed	100604	FACR13LPSA-PS	2022120381	3768 - 5827
		Bed	115142	FACR13LPSA2-PS	2024031596	6386 - 010746
	2680	Main	105460	FACR18VSSA-PS	2023010866	4873 - 8048
		Bed	100604	FACR13LPSA-PS	2022120381	4873 - 6300
		Main	115588	FACR18HEPA-PS	2025003162	8361 - Current
		Bed	115142	FACR13LPSA2-PS	2024031596	6486 - 013241
		Bed	125125	FACR18HEDA-PS	2025003160	013366 - Current
	2700	Main	115588	FACR18HEPA-PS	2025003162	9095 - Current
		Bed	115142	FACR13LPSA2-PS	2024031596	9095 - 013117
		Bed	125125	FACR18HEDA-PS	2025003160	013354 - Current
	2810*	Main	105460	FACR18VSSA-PS	2023010866	7031 - 8248
		Main	115588	FACR18HEPA-PS	2025003162	8345 - Current
		Bed	115142	FACR13LPSA2-PS	2024031596	7031 - 013229
		Bed	125125	FACR18HEDA-PS	2025003160	013513 - Current
		Bunkhouse	116681	FACR18VSDA-PS	2024006920	8121 - Current
	2900	Main	100208	FACR15HESA-PS	2021130009	0072 - 0856
		Main	105460	FACR18VSSA-PS	2023010866	1049 - 8152
		Main	115588	FACR18HEPA-PS	2025003162	8153 - Current
		Bed	100604	FACR13LPSA-PS	2022120381	0072 - 6316
		Bed	115142	FACR13LPSA2-PS	2024031596	6575 - 013314
		Bed	125125	FACR18HEDA-PS	2025003160	013315 - Current
	3100	Main	100208	FACR15HESA-PS	2021130009	000001 - 001037
		Main	105460	FACR18VSSA-PS	2023010866	001038 - 008120
		Main	115588	FACR18HEPA-PS	2025003162	008177 - Current
		Bed	100604	FACR13LPSA-PS	2022120381	000004 - 006211
		Bed	115142	FACR13LPSA2-PS	2024031596	006349 - 013298
		Bed	125125	FACR18HEDA-PS	2025003160	013299 - Current
	3110	Main	105460	FACR18VSSA-PS	2023010866	001556 - 007864
		Main	115588	FACR18HEPA-PS	2025003162	008313 - Current
		Bed	100604	FACR13LPSA-PS	2022120381	001556 - 006122
		Bed	115142	FACR13LPSA2-PS	2024031596	006559 - 013253
		Bed	125125	FACR18HEDA-PS	2025003160	013537 - Current
	3200	Main	115588	FACR18HEPA-PS	2025003162	009123 - Current
		Bed	115142	FACR13LPSA2-PS	2024031596	009123 - 012930
		Bed	125125	FACR18HEDA-PS	2025003160	013266- Current



Model	Floor Plan	Location	BRV#	Furrion Code	Vendor #	VIN Range
Z	3210	Main	115588	FACR18HEPA-PS	2025003162	010826 - Current
		Bed	115142	FACR13LPSA2-PS	2024031596	010826 - 013265
		Bed	125125	FACR18HEDA-PS	2025003160	013330 - Current
		Bunkhouse	111119	FACR08HESA2-PS	2024006031	010826- Current
	3300*	Main	105460	FACR18VSSA-PS	2023010866	004803 - 007781
		Bed	100604	FACR13LPSA-PS	2022120381	004803 - 006243
		Bed	115142	FACR13LPSA2-PS	2024031596	006422 - 007781
	3400*	Main	105460	FACR18VSSA-PS	2023010866	001912 - 007980
		Bed	100604	FACR13LPSA-PS	2022120381	001912 - 006138
		Bed	115142	FACR13LPSA2-PS	2024031596	006414 - 007980
	3420	Main	105460	FACR18VSSA-PS	2023010866	007104 - 007777
		Main	115588	FACR18HEPA-PS	2025003162	008173 - 008424
		Main	105460	FACR18VSSA-PS	2023010866	008624 - 008639
		Main	115588	FACR18HEPA-PS	2025003162	008828 - Current
		Bed	115142	FACR13LPSA2-PS	2024031596	007104 - 012838
		Bed	125125	FACR18HEDA-PS	2025003160	013274- Current
	3510	Main	115588	FACR18HEPA-PS	2025003162	012940- Current
		Bed	125125	FACR18HEDA-PS	2025003160	012940- Current
		Bunkhouse	111119	FACR08HESA2-PS	2024006031	012940- Current
	3515	Main	105460	FACR18VSSA-PS	2023010866	004046 - 008088
		Main	115588	FACR18HEPA-PS	2025003162	008161 - 008312
		Main	105460	FACR18VSSA-PS	2023010866	008520 - 008535
		Main	115588	FACR18HEPA-PS	2025003162	008897 - Current
		Bed	100604	FACR13LPSA-PS	2022120381	004046 - 006259
		Bed	115142	FACR13LPSA2-PS	2024031596	006454 - 013193
		Bed	125125	FACR18HEDA-PS	2025003160	013394 - Current
		Flex Space	116681	FACR18VSDA-PS	2024006920	008520 - Current
	3600	Main	115588	FACR18HEPA-PS	2025003162	008396 - Current
		Bed	115142	FACR13LPSA2-PS	2024031596	008396 - 012946
		Bed	125125	FACR18HEDA-PS	2025003160	013410 - Current
	3610	Main	105460	FACR18VSSA-PS	2023010866	000752 - 008016
		Main	115588	FACR18HEPA-PS	2025003162	008193 - 008296
		Main	105460	FACR18VSSA-PS	2023010866	008552 - 008671
		Main	115588	FACR18HEPA-PS	2025003162	008796 - Current
		Bed	100604	FACR13LPSA-PS	2022120381	000471 - 006318
		Bed	115142	FACR13LPSA2-PS	2024031596	006319 - Current
		Bonus Room	100604	FACR13LPSA-PS	2022120381	000471 - 006318
		Bonus Room	115142	FACR13LPSA2-PS	2024031596	006319 - 013282
		Bonus Room	125125	FACR18HEDA-PS	2025003160	013292 - Current



Model	Floor Plan	Location	BRV#	Furrion Code	Vendor #	VIN Range
I	235	Main	105460	FACR18VSSA-PS	2023010866	000335 - 001441
		Main	116681	FACR18VSDA-PS	2024006920	001051 - 003584
		Main	125125	FACR18HEDA-PS	2025003160	003661 - Current
	265	Main	105460	FACR18VSSA-PS	2023010866	000001 - 003550
		Main	115588	FACR18HEPA-PS	2025003162	003675 - Current
		Bed	111119	FACR08HESA2-PS	2024006031	000001 - Current
	275	Main	105460	FACR18VSSA-PS	2023010866	000003 - 003612
		Main	115588	FACR18HEPA-PS	2025003162	003689 - Current
		Bed	111119	FACR08HESA2-PS	2024006031	000003 - Current
	280	Main	105460	FACR18VSSA-PS	2023010866	001816 - 003450
		Main	115588	FACR18HEPA-PS	2025003162	003821 - Current
		Bed	111119	FACR08HESA2-PS	2024006031	001816 - Current
	290	Main	115588	FACR18HEPA-PS	2025003162	004179 - Current
		Bed	111119	FACR08HESA2-PS	2024006031	004179 - Current
	294*	Main	105460	FACR18VSSA-PS	2023010866	000094 - 003626
		Main	115588	FACR18HEPA-PS	2025003162	003717 - 004416
		Bed	111119	FACR08HESA2-PS	2024006031	000094 - 004416
Ix	20x	Main	116681	FACR18VSDA-PS	2024006920	001775 - 003660
		Main	125125	FACR18HEDA-PS	2025003160	003997 - Current
	23x	Main	116681	FACR18VSDA-PS	2024006920	001065 - 03652
		Main	125125	FACR18HEDA-PS	2025003160	003985 - Current
	24x	Main	116681	FACR18VSDA-PS	2024006920	002806 - 003522
		Main	125125	FACR18HEDA-PS	2025003160	003884 - Current
		Bed (Option)	111119	FACR08HESA2-PS	2024006031	002806 - Current
	25x	Main	116681	FACR18VSDA-PS	2024006920	002916 - 003386
		Main	125125	FACR18HEDA-PS	2025003160	003849 - Current
		Bed (Option)	111119	FACR08HESA2-PS	2024006031	003849 - Current



Model	Floor Plan	Location	BRV#	Furrion Code	Vendor #	VIN Range
Z-AIR	285*	Main	105460	FACR18VSSA-PS	2023010866	000001 - 007832
		Bed	103033	FACR13HESA-PS	2021132276	000001 - 000252
		Bed	105460	FACR18VSSA-PS	2023010866	000253 - 007832
	295*	Main	105460	FACR18VSSA-PS	2023010866	000001 - 007832
		Bed	103033	FACR13HESA-PS	2021132276	000001 - 000252
		Bed	105460	FACR18VSSA-PS	2023010866	000253 - 007832
	297	Main	105460	FACR18VSSA-PS	2023010866	000664 - 008262
		Bed	115588	FACR18HEPA-PS	2025003162	008263 - Current
	310	Main	105460	FACR18VSSA-PS	2023010866	000664 - 008262
		Main	115588	FACR18HEPA-PS	2025003162	008263 - Current
		Bed	115588	FACR18HEPA-PS	2025003162	008263 - Current
	315	Main	115588	FACR18HEPA-PS	2025003162	008483 - Current
		Bed	115588	FACR18HEPA-PS	2025003162	008483 - Current
		Bunk	111119	FACR08HESA2-PS	2024006031	008483 - Current

