

Subject	Air conditioner direct dump feature					Number	M920023
						Date	12/2/2025
						Model	Lineage 25 FW
						Build Date	5/30/24-8/26/25
Circulate To:	Service Manager	X	Parts Manager	X	Technician	X	
	Warranty Admin	X	Sales Manager		Part Number (s)	540000 620262 540130 910009	
Concern:	Air Conditioner may not cool unit efficiently.						
Remedy:	Install a direct dump feature to the a/c system, insulate front cabover area, install double bubble insulation around a/c unit.						
Flat Rate:	3.0 Hrs.						

Grand Design Lineage M Series Insulation and Direct Dump Field Fixes-

Fix 1: Adding insulation to front bunk area

1. Remove interior grab handle by unscrewing at top and bottom
2. Remove loose items from bunk area to avoid damage
3. Remove caps and screw from front cap area plastic
4. Remove screen door. Screws are inset in screen door frame
5. Remove bunk curtain track by removing screws
6. Remove soft touch wingwall covers by opening caps and unscrewing
7. Remove bunk front plastic screws
8. Remove and disconnect ceiling lights that are installed on front plastic
9. Remove front molded plastic piece
10. Remove all front plastic pieces by cutting or disconnecting wires as needed.
11. Remove all front cab plastics
12. Using spray adhesive, add a layer of R7 insulation (Part #540000, **can get locally**) to entire front area
13. Cover insulation with reflective foil (Part #540130) using spray adhesive, cut to fit.
14. Reflective foil over wing wall insulation.
15. Reinstall front plastics and pieces that were removed, hooking up any disconnected or cut wires beforehand

Fix 2: Adding Double Bubble insulation to AC unit

1. Unscrew AC cover screws on roof. **(Fig. 1A)**
2. Remove AC cover
3. Take Styrofoam insert screws out. **(Fig. 2A)**

4. Remove Styrofoam cover
5. Drill (2) 1/8" weepholes as shown- **(Fig. 3A)**. Caulk 3 open AC holes. 2 on passenger side, one on driver's side. **(Fig. 3B)**
6. Reinstall Styrofoam cover
7. Cut double bubble insulation (Part #620262), use adhesive spray and tuck behind AC and wrap around. **(Fig. 4A)**
8. Reinstall AC cover

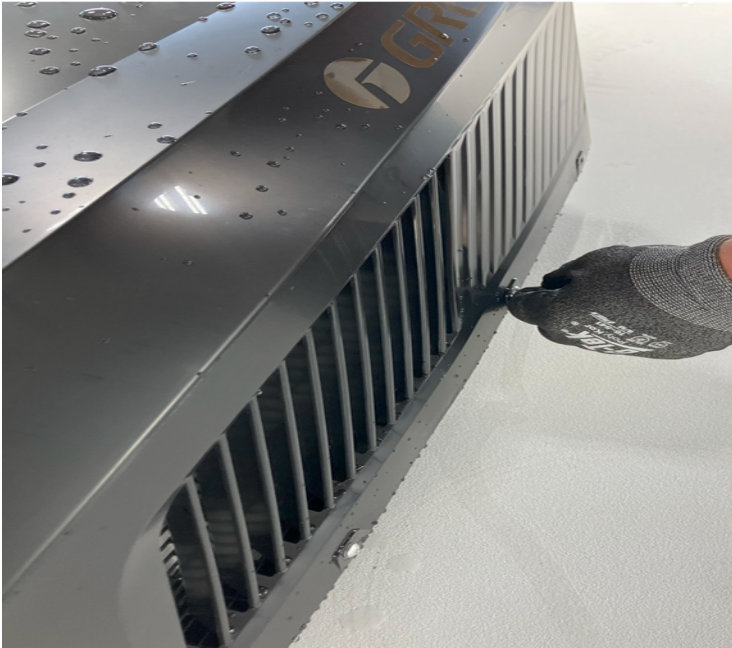


Fig. 1A

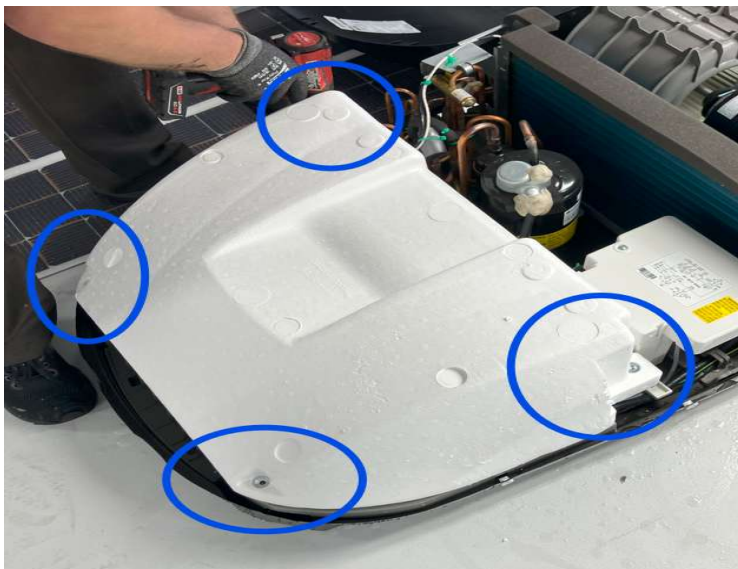


Fig. 2A



Fig. 3A



Fig. 3B



Fig. 4A

Fix 3: Add AC Direct Dump Vents (Part #710637)- (See attached repair diagrams).

1. Place jig over return air cover and mark both rout openings on soft touch. Use razor knife to carefully cut soft touch around mark made from jig.
2. Use oscillating saw to cut out holes for vents.
3. Final rout out hole size is 7 5/8" x 3 1/2"
4. Do not cut through edge of duct
5. Drill 6 1/8" pilot holes in direct dump vent as shown
6. Test fit vent in hole and test operation that it stays open when opened and closes when the lock is pushed to the side. Modify holes if needed.
7. Foil tape opening to ensure no air escapes between ceiling and AC duct
8. Finished direct dump install, verify operation

Parts Ordering:

Please order as follows:

1- Part # 910009- Jig (Template)

2- Part # 710637- Vents

.064- Part # 620262- Double bubble insulations (Put in notes; 8 ft.)

128 sq. ft.- Part # 540130- Reflective foil