



Service Bulletin No. 3108

MODEL D & J4500	TYPE Service Information	SECTION/GROUP 7-Electrical	DATE Jan. 30, 2018
SUBJECT SENSATA 3600 WATT INVERTER GFCI OUTLET			
CONDITIONS Parts may be purchased from MCI Service Parts, Louisville, Kentucky.			

Description:

Motor Coach Industries ("MCI") has become aware that some D and J4500 series coaches may require replacement of the GFCI outlet(s) on the Sensata inverter.

Owners of D and J4500 series coaches equipped with a Sensata inverter between the range of, and including, unit numbers 13284 to 14644 or 66904 to 68228 may order replacement part(s) as required.

Parts

Qty.	New P/N	Description
a/r	07-10-0005	Outlet, GFCI, Sensata Inverter
a/r	19-1-651	Screw, Outlet, GFCI, Sensata Inverter, two (2) per outlet

Service Information:

1. New parts will be available for service replacement.

Service Procedure:



Read this entire procedure before beginning work.

Use Safe Shop Practices At All Times.

NOTICE

As it relates to D series coaches, the inverter is mounted on the forward bulkhead wall of baggage bay compartment #1.

As it relates to J4500 model coaches, the inverter is mounted on the upper, roadside section of baggage bay compartment #3.

1. Open the applicable baggage bay compartment door and secure in the open position. Locate the inverter (refer to reference photo in Figure 1).
2. Locate the GFCI outlets shown in Figure 1.

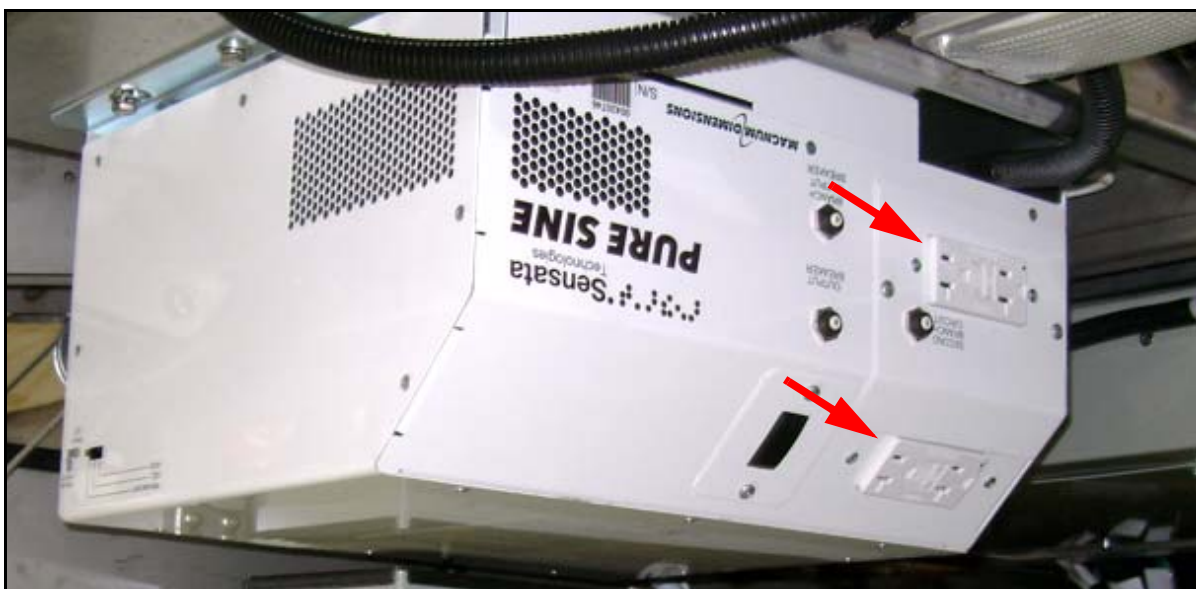


Figure 1. Reference photo of inverter and GFCI outlet locations.

3. Enter the coach cabin and start up the coach.
4. Using a receptacle tester, test both GFCI outlets to identify functionality. Label the outlet that requires replacement.
5. Turn the main battery disconnect switch to the OFF position.

6. Remove and retain the mounting hardware from the GFCI outlet mounting plate. Remove and retain the GFCI outlet mounting plate to be re-installed at a later step in this procedure.
7. Remove and retain the GFCI outlet mounting plate, providing access to both outlets as shown in Figure 2.

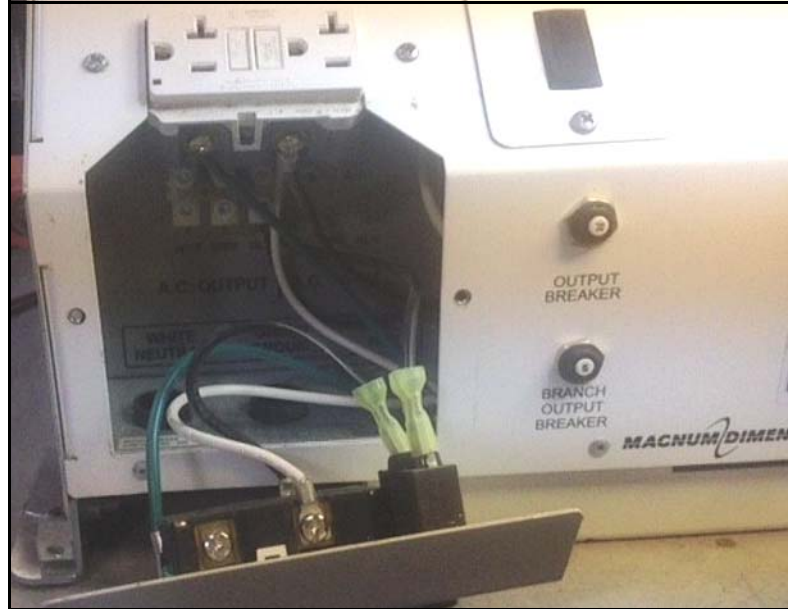


Figure 2. GFCI mounting plate removed facilitating access to both outlets.

⚠ CAUTION

Be careful not to damage the wiring branch of the second circuit breaker, which is also mounted to the GFCI plate.

8. Remove the lower GFCI outlet from the mounting plate. Hold to secure the Keps nuts captive with the 5/16" wrench while backing the screws out.



Figure 3.

9. The GFCI can now be disconnected. Back-out the GFCI terminal screws and remove the spring spade connectors from the GFCI terminals.

NOTICE

Observe the GFCI orientation, the neutral side of the GFCI (white wire side) is oriented toward the top of the inverter, and the HOT side (black wire side) is oriented toward the bottom of the inverter.



Figure 4. Wiring orientation.

⚠ CAUTION

Visually inspect the back of the new GFCI to see the end marked “LINE” and the end marked “LOAD.”

The input wires **MUST** be connected to the end indicated as “LINE.”

Wiring the input wires to the “LOAD” side will cause the GFCI to fail.

Ensure to properly connect the black, white, and green wires to the proper terminals.

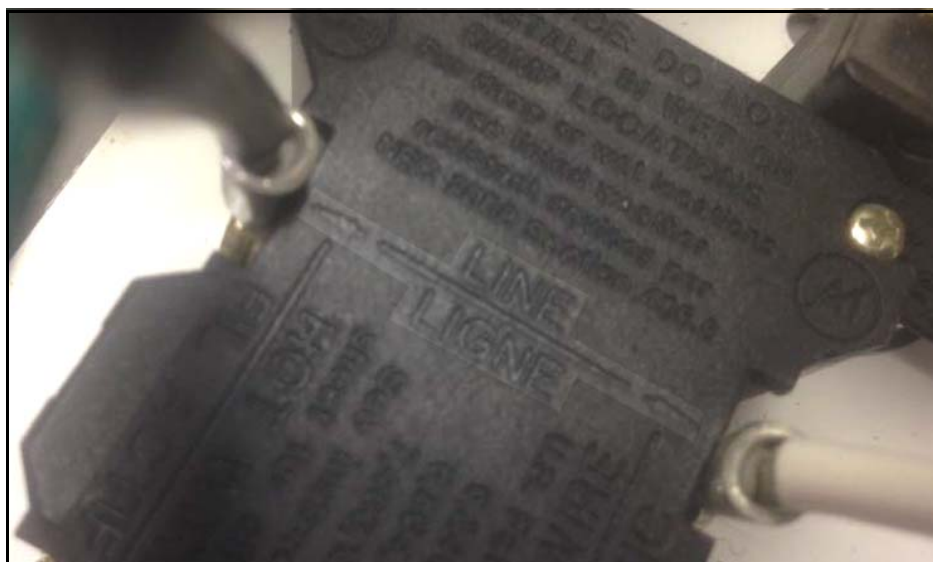


Figure 5. Markings on back of GFCI outlet.

NOTICE

In the event that the upper GFCI requires replacement, proceed to Steps 10 and 11.

In the event that the lower GFCI requires replacement, proceed to Steps 12 to 14.

10. Disconnect and discard the upper GFCI.
11. Using new mounting hardware, p/n 19-1-651, thread into the GFCI through the two small threaded holes located at either end, down the centerline of the new GFCI, p/n 07-10-0005. Torque the screws to 5 in-lbs.
12. Disconnect and discard the lower GFCI.
13. Using new mounting hardware, p/n 19-1-651, thread into the GFCI through the two small threaded holes located at either end, down the centerline of the new GFCI, p/n 07-10-0005.
14. Orient and install the lower GFCI onto the mounting plate. While holding the Keps nut captive with the 5/16" wrench, tighten the screws. Torque the screws to 5 in-lbs.

NOTICE

Do not tighten one without having started the other.

The second hole may not align properly, and the screw will cross-thread or strip.

15. Orient the GFCI plate onto the inverter. Start threading both screws.
16. Tighten both screws finger-tight. Torque to 8 in-lbs.

NOTICE

The GFCI's must have power to verify functionality.

17. Turn the main battery disconnect switch to the ON position.
18. Position the inverter switch to ON.
19. Use the "TEST" and "RESET" buttons on the GFCIs to verify functionality for both GFCI's.
20. Check for proper polarity and Ground with a circuit checker.

Procedure Complete.