Service Bulletin SBA0264

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The purpose of this Bulletin is to provide the attached "Troubleshooting Matrix - Freedom 458 Series" and results data entry form from Xantrex. Refer to the Warranty section below regarding replacement of inverter/ chargers.

YEAR(S) AFFECTED: 1999-2007

PRODUCT(S) AFFECTED:

Bounder Diesel, Discovery, Excursion, Expedition, Providence, Revolution, Revolution LE

MODEL(S) AFFECTED: All

SUBJECT: Xantrex Inverter/Charger Troubleshooting and Warranty Information

KEYWORDS: Xantrex, Inverter, Charger

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<u>NOTE:</u> This bulletin is provided for information only and is not an authorization for inspection, testing, or repairs.

WARRANTY (Applies only to motor homes currently covered under warranty)

The attached Xantrex Test Procedure **results form** must be completed and returned with each Xantrex inverter/charger submitted to Fleetwood for warranty replacement. Follow the steps identified in the four attached troubleshooting charts and enter the results in the corresponding lines of the results form.

<u>NOTE:</u> Inspection and replacement of the Xantrex inverter/charger requires a prior authorization request (PAR) from Fleetwood.

WARNING

- FOLLOW ALL OF THE COMMONLY ACCEPTED SAFETY PRACTICES WHEN TESTING, TROUBLESHOOTING, AND REPAIRING ELECTRICAL SYSTEMS.
- REMOVE JEWELRY BEFORE BEGINNING ELECTRICAL WORK.
- DISCONNECT, UNPLUG, OR DISABLE ELECTRICAL SOURCES ON WHICH YOU WILL BE WORKING.
- NEVER COME INTO CONTACT WITH ENERGIZED CIRCUITS. USE ONLY INSULATED TOOLS AND TESTING EQUIPMENT.
- DISABLE AUTO GEN START IF EQUIPPED.
- TAG EACH POWER SOURCE WITH SOME NOTICE TO PREVENT A THIRD PARTY FROM POWERING UP THE SYSTEM ON WHICH YOU ARE WORKING.

If you have any questions concerning this bulletin, contact Fleetwood Dealer Technical Support at: 1-800-816-9825

Fleetwood Service Literature can be accessed at: http://www.fleetwoodrvdealers.com

This bulletin is supplied for technical information only and is not an authorization for repairs.

 Federal Law (Section 154 of the National Traffic and Motor Vehicle Safety Act of 1966) requires that:
 If is impossible to know, evaluate and advise the service trade of all conceivable ways in which service maintacturer, you must repair or otherwise correct the defects on vehicles remaining in your inventory, according to the notification, before selling or leasing the vehicles. Any vehicle lessor received the service must forward a copy of the notice to the lessee within ten days.
 If it is impossible to know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Accordingly, anyone who uses a service procedure or tool must first assure that neither personal safety not whicle safety will be jeopardized by the selected service methods."

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		Results	
Step #	Test Procedure	Yes/No	Measurement
Inverter / Charger Operations			
1.1	Do inverter loads function? (i.e. microwave, TV, etc.)		
12	Are loads transferred and batteries being charged?		
	Is the DC input voltage within the limits for the inverter to		
	operate? (11.0 to 14.0 VDC. Unit requires 10.0 VDC		
2.1	minimum)		
2.2	Is the unit making a "ticking" or a "humming" noise?		
2.3	Is the unit making a "ticking" or a "humming" noise?		
2.4	Do inverter loads work?		
25	Is output of inverter properly connected and all A/C breakers		
2.0	Does the voltage at the inverter output read between 114 and		
2.6	125VAC?		
	Has the operation changed after the Temperature Sensor		
2.7	Cable (TSC) was plugged in?		
2.8	Is the display on the remote correct?		
2.9	Is the unit working after the remote has been changed?		
0.40	Is the unit working with the remote plugged in at the front of		
2.10	the inverter with a new cable?		
Transfer Operation			
3.1	Is voltage between 90 and 130VAC?		
32	Is the A/C output voltage at the inverter between 90 and 130VAC?		
0.2	Is the resistance reading across the input hot and neutral		
3.3	between 130 and 170 ohms?		
Charger Operation			
	Does the Charge / Gel light come on at the front of the		
4.1	inverter?		
42	is the DC voltage at the unit within limits? (13.6 VDC slowly rising to approximately 14.5 VDC)		
	Does the DC output voltage match readings in the manual for		
4.3	the battery temperature range?		
	Does the DC output voltage match readings in the manual for		
4.4	the battery temperature range?		
4.5	amps, etc.)		
	Is the display showing the correct information? (DC volts,		
4.6	amps, etc.)		

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TROUBLESHOOTING MATRIX - FREEDOM 458 SERIES







