



Countries: CANADA, UNITED STATES Document ID: IK0800579
 Availability: ISIS, FleetISIS, IsSIR Revision: 1
 Major System: ELECTRICAL SYSTEM Created: 11/12/2018
 Current Language: English Last Modified: 12/4/2018
 Other Languages: NONE Author: Charles Schroeder
 Viewed: 79

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Coding Information

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Title: Xantrex 1200W Power Inverter Information

Applies To: Vehicles with 0008XLD

Change Log

Please refer to the change log text box below for recent changes to this article:

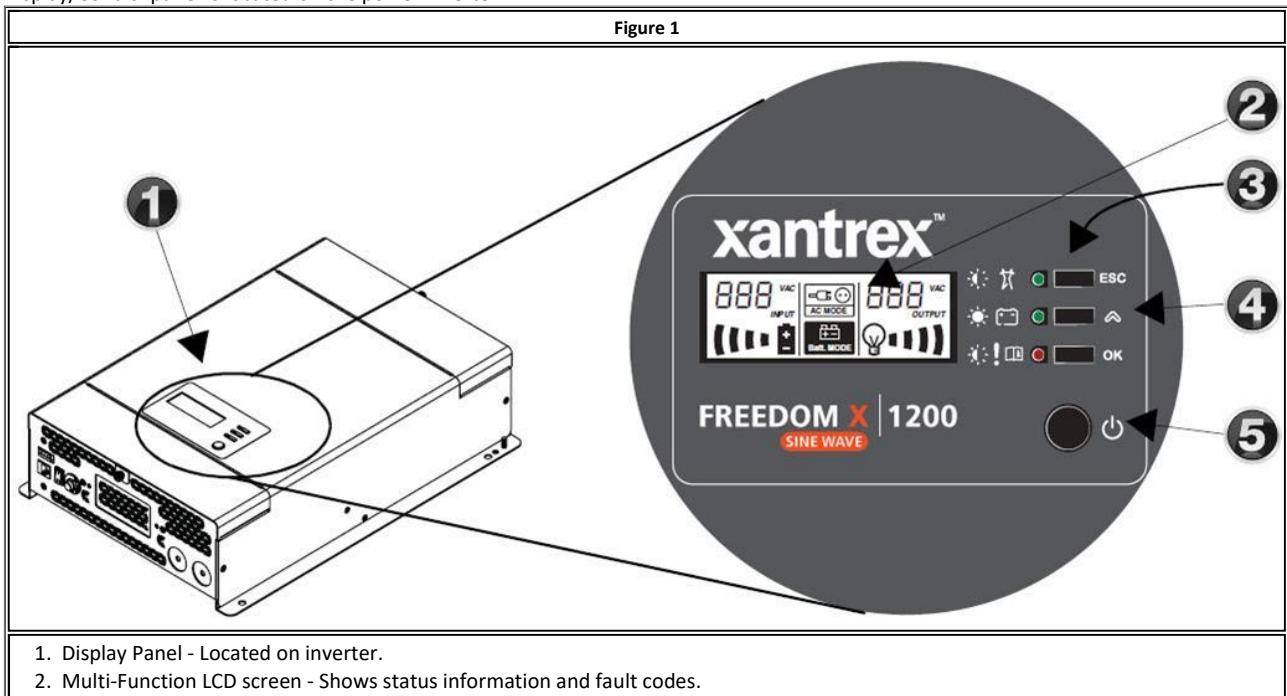
12/04/2018 - Added Table 1 for default values.
 11/14/2018 - Initial Article Release.

Description

Service and diagnostic information for the Xantrex Freedom X Sine Wave Inverter, feature code 08XLD.

- For information on the 1800W Cooper Bussman inverter, please reference [IK0800510 - Cooper Bussmann Inverter Information/Diagnostics](#)

- Xantrex Freedom X - 1200W inverter.
- Reversing the positive and negative battery cables will blow a fuse in the Freedom X and void your warranty.
- The low battery shutdown for the inverter can be manually selected by the user from 10.5 to 12.1 VDC.
- When the inverter is power saving and the Freedom X is inverting without a load, it draws less than 0.6 amp of current.
- Display/Control panel is located on the power inverter.



3. Status LEDs - Indicate the mode of operation.
4. Three select buttons - Change status information displayed on the screen. Also, changes inverter settings.
5. Inverter Power Button - Press for inverter operation. Down is ON, Up is OFF.

Symptoms

Diagnostic Trouble Codes & Dashboard Indicator Lights:

DTC/Light	Description
E01	Low battery voltage shutdown is imminent depending on the setting, see "Operating Limits" in the Owner's Guide
E02	High battery voltage shutdown > 16.7 volts DC
E03	AC output overload shutdown
E04	Over-temperature shutdown
E05	Low battery voltage detected depending on setting, see "Operating Limits" in the Owner's Guide
E06	AC output overload warning
E07	Fan lock alarm
E08 E09 E10	General fault detected

For error code E01: After the Low Battery Cutout (LBCO) shutdown delay, the unit will immediately stop inverting

For error codes E02 to E04: The unit will stop inverting

Customer Observations or Concerns:

- No power output from power inverter at 120v receptacle

Special Tools / Software

Tool Description	Tool Number	Comments	Instructions
Not Applicable			

Service Parts Information

Kit Description	Part Number	Quantity Required	Notes
RECTIFIER GIVE VOLTAGE	4120079C91		Freedom X Sine Wave Inverter
CABLE ASSEMBLY 110V AIR CONDITION INVERTER POWER OUTPUT	4041618C91		Cable from inverter to power outlet
RRECEPTACLE, AIR CONDITIONER SLEEPER CABINET OUTLET 110 VOLT	3571430C91		

Diagnostic Steps

Basic Checks

- Check for error codes displayed on the LCD screen.
- Is the inverter clean, dry and free of physical damage?

- Are the truck batteries in good condition?
- Are all DC connections clean and tight?
 - DC battery cables should be torqued to 80 in-lbf (9 N-m) at the inverter.
- Have the configuration settings been changed that may affect operation?
- Attempt to power the inverter on manually using the button on the control panel.
 - If the inverter powers up, check the parameter values shown in Table 1 below.

Refer to the [Owner's Manual](#) for additional diagnostic information

NOTE:

Ignition control requires a voltage signal to the ACC input (Ignition signal input), and the Ignition control switch must be on. The inverter will not work if there is not a voltage signal, or the switch is not on. Refer to page 31 of the Owner's Manual

Table 1 - Freedom X1200 Default Values		
Item	Default Setting	Note
Power Save Time	25	25 hours
Power Save (Load Sensing)	DI 5	Disabled
LBCO Voltage Setting	11.8	11.8 volts
LBCO Shutdown Delay	300	300 Seconds
Ignition Control	ATO	Auto
Transfer Mode	APL	Appliance
Output Frequency	60	60 Hz

Repair Step(s)

Refer to the [Owner's Manual](#) for repair information

Warranty Information

Warranty Claim Coding:

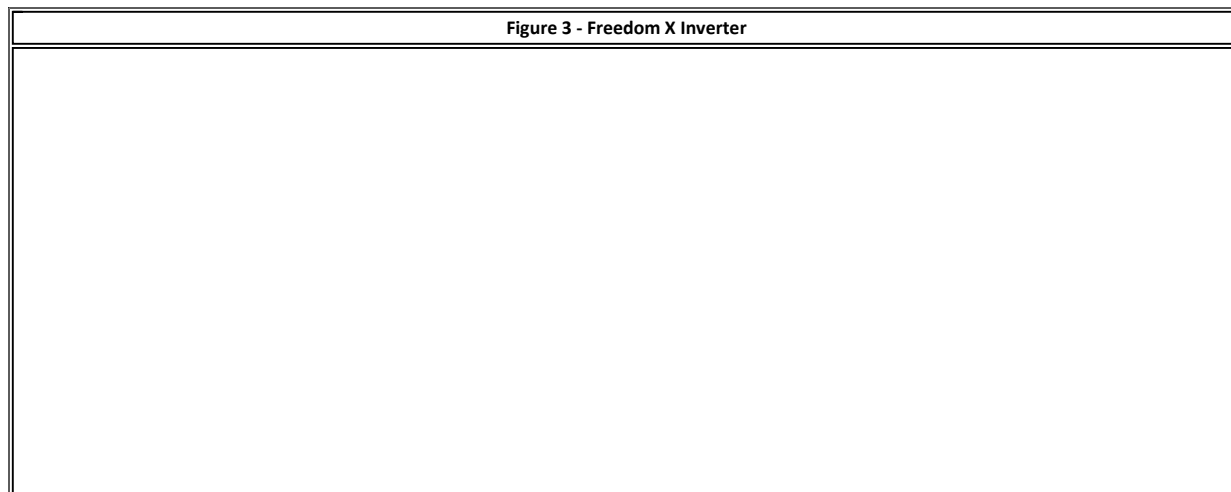
Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

Other Resources

[Master Service Information Site](#)





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