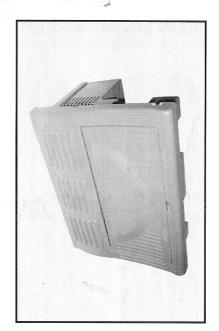
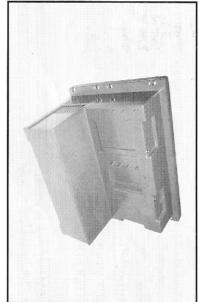
Models WF-8935AN-P, WF-8945AN-P, WF-8955AN-P For use with WFCO Power Center Installation/Operators Manual







Distributed in the US by CHENG USA, INC. Warranty Service (877) 294-8997 Sales (574) 294-8997

Installation/Operator's Manual

For use with WFCO Models: WF-8935AN-P, WF-8945AN-P, WF-8955AN-P

Mounting:

Select the mounting location near the shore power inlet and batteries and cut a rough opening 1/8" wider than the box to allow the power center to slide in easily. The hole should be framed so that the box can be secured tightly.

Mount horizontally is the preferred method. Mount in such a way as to provide adequate ventilation to the converter ON ALL SIDES. The 8900 series should be installed in a minimum of 1" off the floor (2" to 3"would be preferred).

Caution: Do not mount in an area where the owner may store items, as this could

effect the efficient operation of the converter.

Be sure that all openings are protected from debris falling into the WF-8900. Metal shavings and debris from the manufacturing process allowed to enter the converter may cause damage (this is a non-warranty item).

On the fuse board use a slot driver to tighten terminal output screws. The tightening torque is Min. 20 IN-LB.-Max. 40 IN-LB. Too much torque or use of a power tool, may result in stripped screws. The output terminals are rated to accept 2 to 10 gauge copper or aluminum wire.

Warning:

DO NOT MOUNT THE WF-8900 SERIES POWER CENTER IN A BATTERY OR LP GAS COMPARTMENT.

The OEM may wish to pre-wire the box for ease of installation. Select the number of knockouts to be used and remove them. Two sizes have been provided. The 1 1/8" is for the 30 amp power cord. The 7/8" holes are for the Romex on the 120VAC side and the wires on the 12VDC side. Remember to select the proper gauge wire for the load and distance. Leave the rest of the knockouts in place. Be sure to use appropriate Romex connectors and strain relief to secure the wires to the box. (See wiring diagram)

INSTALLATION INSTRUCTION

INSTALLATION INSTRUCTION



Fuses a

Fuses and Breakers:

Breakers

The WF-8900 series power center was designed to use a 30 AMP main breaker with branch circuits (Cutler-Hammer, ITE/SIEMENS, Square D, Murrey and T&B are approved breakers). Double breakers may be used for the branch circuits. Should a breaker become faulty, replace with the same type and rating breaker as provided by the OEM. Use only approved 120 VAC circuit breakers and 12V fuses. IMPORTANT: When replacing circuit breakers replace with the same type and rating as the original.

AC Breaker Manufacturer:

- Main Circuit Breaker-Listed, rated 120Vac, maximum 30 A
 Culter-Hammer: Type BR and C. T&B: Type TB. Siemens/ITE: Type QP. Square D: Type HOM. Murrey: Type MH-T or MP-T
- Branch Circuit Breaker-Listed, rated 120Vac, maximum 20 A
 Culter Hammer: Type BR and C, or BRD BD and A. T&B: Type TBBD or TB.
 ITE/Siemens: Type QT or QP. Square D: Type HOM or HOMT. Murrey: Type MH-T or MP-T

12 VDC Fuses

The DC panel output circuits (1-9) were designed for a maximum 20 amp fuse, circuits 10 and 11 were designed for a maximum of a 30 amp fuse. Should one need to be replaced, be sure to replace it with the same type and amp rating as the original, Littelfuse Type 257 automotive style fuse. Replacing it with either a higher or lower amp fuse could result in the panel not functioning properly.

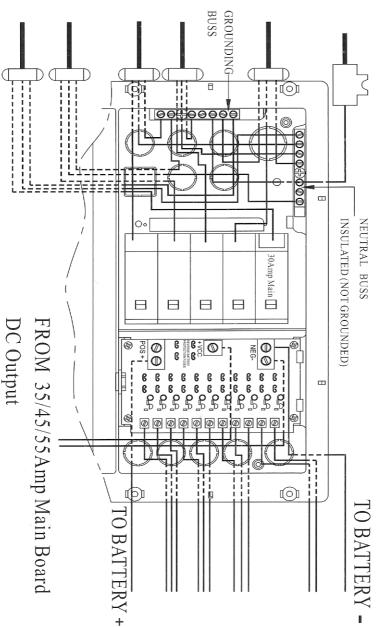
Each 12VDC circuit of the WFCO distribution panel is provided with a LED indicator light. Should the fuse "blow" or an open be caused, the LED will light up indicating which circuit is open and which fuse needs to be replaced.

REVERSE Polarity Fuses

The WF-8900 series are equipped with reverse polarity fuses. Should these fuses "blow" either during the manufacturing process or while connecting the batteries, replace them with the same type and rating fuse as originally provided with the equipment.

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WIRING DIAGRAM





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INSTALLATION INSTRUCTION

Automatic Microcontroller Operation

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needs to be in by checking the condition of the batteries are fully automatic. The converter will sense which mode it The WFCO series 3-stage switch mode power converters

The three modes include:

and the current required by the RV will function at normally. This mode provides the 12 VDC is in the 13.6 VDC range. This is the mode that the converter Absorption Mode: During this mode the converter output

go into the Bulk Mode voltage is less than 13.2 VDC. The converter will automatically Bulk Mode: When the converter senses that the battery

if there has been any demand. If there is no activity for a and the shore power has been left plugged in, the converter Absorption Mode after 4 hours converter automatically goes into Bulk Mode and will return to the period, the converter will automatically go into the Float Mode will automatically go into the Float Mode. The converter will sense Float Mode: If the RV has not been used for a period of time When the converter senses a demand by turning on lights the

Rear view 0 0 GROUND WIRE HOLI

INSTALLATION INSTRUCTION

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GROUND NEG BUSS

WHITE WIRE GREEN WIRE

BATTERY

NEUTRAL BUSS-PLASTIC CASE

STAB BAR

PIN TERMINAL (CONNECTED TO BREAKER) BLACK WIRE (CONNECTED TO BRANCH CIRCUIT)



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locations. The WF-8900 series must be protected from direct contact with water.

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INSTALLATION INSTRUCTION



ATC FUSE

accidentally connected in reverse. A reverse battery connection, even for a second, is the only reason that these fuses will blow. battery or at the converter. Reconnect properly, then replace it with the same type and amp rating as The WF-8900 series is neither weather resistant nor designed for installation in wet IMPORTANT: These fuses protect converter from damage in the event that the RV battery is the original, Littelfuse Type 257 automotive style fuse. If the fuse(s) are blown it means the RV battery was accidentally connected in reverse, either at the

Troubleshooting:

WF-8900 series power center. First, visually inspect the fuses for any breaks, if none are If there is power to the converter, check the reverse polarity fuses on the front panel of the found use a continuity tester to check for continuity.

WF-8900 SERIES (35 AMP, 45AMP, 55AMP)

 \Box



switch mode converter / battery chargers. The 8900's are UL and

The 8900 series power centers, are intelligent and reliable electronic

GENERAL

INFORMATION

CUL (Canadian) Listed. They meet FCC Class B requirements.

tape. Check the converter output voltage with a voltmeter. Place the

Be sure you have good connections at the terminals. If the voltage reads (black) test probe on the Negative (black) output terminals of converter. Positive (red) probe on the Positive output (red) and place the Negative

13.6 volts (+/-.3volts) the converter is functioning properly.

disconnect both of the wires on the front of the converter (as shown below).

Before checking the converter output voltage, it is necessary to

Using a slot hex driver, disconnect the wires. Cap each wire or wrap with

INSTALLATION INSTRUCTION

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12V BATTERY

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35/45/55Amp Main Board

THESE WIRES DISCONNEC

communications. Operation of this equipment in a residential area is

likely to cause harmful interference, in which case, the user will be

required to correct the interference at his own expense

instruction manual, may cause harmful interference to radio

environment. This equipment generates, uses, and can radiate radio

harmful interference when the equipment is operated in a commercial

frequency energy, and if not installed and used in accordance with the

Rules: These limits are designed to provide reasonable protection against

NOTE: This equipment has been tested and found to comply with the

limits for a Class B digital device, pursuant to Part 15 of the FCC

FCC Compliance Class B:

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INSTALLATION INSTRUCTION

outlet but the converter output still reads zero volts, the converter is not

If the converter fuses check good and there is 120 VAC power at the

For warranty service contact 1-877-294-8997 functioning properly and must be replaced and the RV battery.

between the converter and distribution panel or an open wire between the converter

check for an open automatic reset circuit breaker (if provided), or an open If converter output voltage reads 13.6 volts, but the battery is still not charging,

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YORLD FRIENDSHIP CO., LTD

Power Converter

POWER CONVERTE

MODEL: WF-8955AN

WITH PANEL

With Panel

70VF

AC PANEL BOARD

Tested To Comply With FCC Standards

AIR COND

REF. WTR HTR CONVERT

GHI

risk of fire or electric shock. For continued protection against rating of breaker. Replace only with same type and

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Reverse Polarity FUSE

 Fuse blows when battery is connected in reverse.

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Replacing fuse only with same Amperage Littelfuse Type 257 Amperage Littelfuse

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AC04W061618820

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For 12VDC Wiring Copper Conductors. CLASS CTL PANELBOARD TYPE 1

higher amp fuse.

Max. fuse Size: 20A.

1-11 12VDC for RV 12 loads.

Terminal Block For Use 16-10AWG

NOTICE: PER THE NEC, USE OF ALISTED ENERGY MANAGEMENT SYSTEM IS REQUIRED WHEN MORE SYSTEM IS CIRCUITS ARE UTILIZED

Temperature Rating is 75°C.

The tightening Torque Max.20in-lb.

2. 20 AMP FR ROOF TOILET WTR PUMP 3. 20 AMP FURNACE 7.7.5 AM P RR TV AMP 4, 20 AMP RADIO 7.5 AN PER TV AMP 7.5 AMP TEST PANEL 20 AMPRR ROOF AMP AMP AMP AMP

Power Centers > WF-8900 Series



WF-8955 55 Amp Power Center WF-8955PEC

Description

(Fully competible with WF-8955AN, with next generation faceplate design)

The WF-8900 Series has revolutionized RV power centers with its lighter weight, decorative doors and superior features. The WF-8955 model provides 55 amps and a clean, constant 13.6 Vdc nominal output, for reliable operation of electronics and appliances. Automatic three-stage charging extends the life of your battery with output voltage modes of 13.2 Vdc range "float" mode, 13.6 Vdc range "absorption" mode, and a 14.4 Vdc range "bulk" charge mode. The 8900 Series also maintains peace and quiet, as the cooling fan runs only when needed.

FCC Class B compliance for every power center model means that the units are dsigned not to cause interference with televisions, radios or other signals. Electronic current limiting automatically shuts down the power during overload or short-circuit conditions, protecting the life of your power center and electrical system.

The 8900 Series models provide AC and DC distribution with innovative features. They can accommodate a 30-amp main AC circuit breaker and up to five branch circuits. Eleven-branch DC circuits are available with LED lights for each DC circuit to illuminate and identify open circuits.

Specifications

Warranty Period UL® and cUL®-Listed. FCC Class B
Two Year Limited Product Warranty

Output Power 55 amps DC output

105-130 VAC, 60 Hz (950 watt)

Output Ranges Nominal (Absorption Mode) 13.6 Vdc (includes charging and load)
 Boost (Bulk Mode) 14.4 Vdc
 Trickle (Float Mode) 13.2 Vdc (after 44 hrs.)

: 13.875" wide; 11.625" high; 9" deep

Weight Dimensions

Replacement Board : 7 lbs. : WF-8955-WBA (Main Board Assembly, 55 Amps)

