

# ***BC-9000***

***BATTERY CHARGER***

## ***Operations Manual***

***COFKO ELECTRONICS LLC***

***Rev.K***

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## UNPACKING

As you unpack your new BC-9000 battery charger, inspect the BC-9000 for signs of shipping damage. If shipping damage is present, stop and contact the shipping company for damage claims information. The box should contain the following items:

One (1) each-Part no. 4169	BC-9000 Battery Charger/ DC Power Supply
One (1) each-Part no. 4169-20,	BC-9000 Instruction Manual
One (1) each-Part no. 4169-50,	BC-9000 DC Output Cable
One (1) each-Part no. 4161-11,	BC-9000 AC Power Cord (IEC C13 to NEMA 5-15P) <sup>1</sup>
One (1) each-Part no. 4161-60,	Battery Adaptor Cable with 5/16 (7.9mm) Ring Terminal connectors
One (1) each-Part no. 4161-70,	Battery Adaptor Cable, Quick Disconnect Assembly <sup>2</sup>

**<sup>1</sup>The BC-9000 standard AC power cord (P/N 4161-11) is a 3-wire 14ga IEC C13 to NEMA 5-15P. If the local AC receptacle does not use the NEMA 5-15P plug, contact the factory customer support. Another option is to source a locally approved 3-wire 14ga AC power cord with an IEC C13 to local configuration. Do not modify the standard P/N 4161-11 (IEC C13 to NEMA 5-15P) AC cord to meet local configuration requirements.**

**<sup>2</sup> Note: 4161-70 Assembly consists of Part no. 4161-60 and MS3349-2 connector.**



P/N 4169



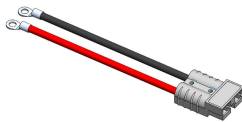
P/N 4169-20



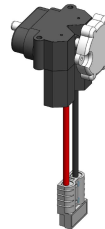
P/N 4169-50



P/N 4161-11



P/N 4161-60



P/N 4161-70

***IMPORTANT:*** Save shipping box and packaging material. They should be used to repack the BC-9000 if it needs to be shipped back for warranty or service.

## **INTRODUCTION**

Congratulations and thank you for purchasing your BC-9000 battery charger. The BC-9000 has been designed to provide the operator with accurate battery charging and ease of operation.

The BC-9000 features:

- Universal AC power input 100-264VAC 1 PH (47 to 63Hz)
- IEC C13 to NEMA 5-15P AC Power Cord
- Adjustable Charge Output Voltage from 3.0 to 40.0 Vdc (0.1-volt steps).
- Adjustable Output Amperes from 0.05 to 25 Adc (3.0 to 36.0 volts). Above 36.0 volts, maximum output amps is 22.0 ADC
- Constant Voltage Charge.
- Constant Current Charge.
- Adjustable Charge Time from 1 to 999 minutes.
- Single or Two Step Charge Routine.
- AGM Battery Deep Discharge Recovery (D.D.R.) Charge Routine Mode
- AGM Battery Conditioning Charge Mode
- 16x4 Character LCD Display.
- 10mv Voltage Resolution.
- Over Temperature Protection
- DC Power Supply Mode.
- Forced Air Cooling.
- Beeper Audio Warning.
- 1-year warranty

Before operating your new BC-9000 familiarize yourself with this operation manual and the BC-9000.

Questions?

PH: (909) 705-6267 or [support@cofko.com](mailto:support@cofko.com)

Thank you,

COFKO Electronics LLC

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## **HISTORY OF REVISIONS**

Revision #	Effective Date	Description of Change	Approval by
A	12/20/2011	Initial Issue	M.C.
B	10/23/2012	Increase Maximum Operation Altitude from 6000' to 6500' Page 11	M.C.
B	10/23/2012	Change Description of Box Contents Page 2	M.C.
C	04/05/2013	Minimum and Maximum Charger Operation Temperature Page 11	M.C.
D	01/03/2014	Update Safety Information Page 7 Line 9	M.C.
E	04/05/2014	Added Power Supply Mode Page 9	G.K.
F	04/28/2015	Add Box Content Part Numbers Page 2	M.C.
G	02/12/2016	AGM Battery Deep Discharge Recovery Mode Page 9	M.C.
H	02/12/2016	BC-9000 Configuration Page 6	M.C.
I	05/14/2020	Revised Issue Released Rev.D	M.C.
J	11/19/2024	AGM Battery Conditioning Charge Page 10	M.C.
K	09/25/2025	Increase Max. Charge and Power Supply Output Voltage to 40.0 VDC.	M.C.

## **BATTERY HANDLING AND BC-9000 OPERATIONS PRECAUTIONS**

Your new BC-9000 battery charger has been designed with operator safety as a function of its design, construction, and operation. Understanding how to safely operate the BC-9000 is important. Failure to follow the operation and safety guidelines when using the BC-9000 can result in **personal injury to the operator and damage to the BC-9000**. Always review the battery manufacturer's battery charging guidelines before recharging batteries.



**Look for this symbol to identify Safety and Danger precautions. Be Alert- Your safety is involved! Personal injury or equipment damage can occur if guidelines are not followed.**

### **PRECAUTIONS**

1. **CAUTION:** Aircraft batteries are certified to have a certain minimum capacity for emergency operations in the event of an electrical generator system failure. Never “jump start” an aircraft that has a discharged or “dead” battery.
2. **WARNING: ELECTRIC SHOCK HAZARD.** Do not touch un-insulated portions of the connector or the battery terminals. A possibility of serious electrical shock exists. Do not lay tools or other metal objects on the battery as arcing or explosion can occur. Remove conductive jewelry before working around battery, charger, or test equipment.
3. **CAUTION: ELECTRIC BURN HAZARD.** Do not wear conductive rings, belt buckles, or other jewelry when working with batteries, chargers, or test equipment. Do not lay tools or other metal objects on the battery as arcing and severe burns could occur.
4. **WARNING:** Batteries on charge or discharge produce hydrogen gas, which can explode if ignited. Do not smoke, use an open flame, or cause sparking near a battery. Charge, service or test a battery only in a well-ventilated area. The use of exhaust fans may reduce the risk of explosion.
5. **WARNING:** Batteries contain sulfuric acid which will cause burns. **DO NOT TOUCH EYES AFTER TOUCHING BATTERY.** Do not get acid in your eyes, or on your skin, or clothing. In the event of acid in the eyes, flush thoroughly with clean cool water for several minutes. Get professional medical attention. Refer to battery MSDS for additional information.
6. **WARNING:** Wear proper eye, face and hand protection always when working with batteries. Know the location and use of emergency eyewash and shower nearest the battery charging area.
7. **CAUTION:** To prevent damage to the connector, arc burns, or explosion, batteries should never be connected, or disconnected while being charged or discharged. Batteries must be connected or disconnected only when the circuit is open. Ensure the aircraft battery switch, external power source, or the charger is in the “OFF” position before connecting or disconnecting the battery. Battery terminal protectors should be installed whenever the battery is not connected in the aircraft or to the test equipment.
8. **CAUTION:** Batteries contain hazardous materials. Know the location and proper use of emergency response materials. Refer to battery Material Safety Data Sheet (MSDS) for additional information.
9. **CAUTION / WARNING:** **Before charging or capacity testing a battery always REVIEW, UNDERSTAND, and FOLLOW all fire and safety codes for your location. Always REVIEW, UNDERSTAND, and FOLLOW the battery manufacturer's battery charging and testing guidelines. Always REVIEW, UNDERSTAND, and FOLLOW the equipment manufacturer's battery charging and testing guidelines.** If the battery is installed in equipment that is sensitive to over voltage conditions, (i.e. Aircraft) **NEVER** charge using a constant current (CI) method. Only

charge using a constant voltage (CV) method. There can be a serious risk of injury to personal and or damage to equipment (i.e. Aircraft) due to high voltage and generation of explosive gases when charging constant current (CI).

10. **DANGER:** Never disconnect the AC power cord with recharge current applied to the battery. If you wish to terminate a recharge cycle, press the **NEXT** button first to stop the battery recharge cycle. Now place the POWER switch to the off position. The AC power cord can now be safely removed from the power source.
11. **DANGER:** Never recharge batteries without first inspecting all battery wires and connections for condition and tightness. Replace all defective wires and bad connections before charging batteries. Defective wiring and bad connections can cause overheating during charging.
12. **DANGER:** Never connect the BC-9000 to batteries with voltage or recharge charge currents outside the ratings of the charger. Any questions that arise about the battery or charger ratings, call (909)705-6267.
13. **DANGER:** Never obstruct the BC-9000 air intake or hot air exhaust openings. Obstructing either opening can cause the BC-9000 to overheat.

## **BC-9000 OPERATION**



**NOTE:** Before recharging a battery, ***review all recharging procedures as required by the battery manufacturer.*** Failure to do so can result in permanent damage to the battery or the BC-9000.



**DANGER:** Never attempt to connect the BC-9000 charger to a battery using anything but the proper connector. ***Doing so can damage the BC-9000, battery, or cause injury to the operator.***



**Warning:** ***Contact the Cofko technical support before charging Lithium Ion batteries with the BC-9000.***

## **BC-9000 CONFIGURATION OPTIONS**

1. Set the BC-9000 battery charger on a stable suitable surface.
2. Plug the AC cord (PN 4161-11) IEC 320-C13 plug into the IEC 320-C14 receptacle located in rear of the BC-9000. Plug the remaining end into AC power source. (Note: The BC-9000 comes standard with an IEC 320-C13 to NEMA 5 -15P AC power cord. Other AC cord configurations are available)
3. Set the BC-9000 AC power switch to the ON position.
4. Using the **UP** or **DOWN** button, select the CONFIGURE mode. Press the **NEXT** button.
5. To turn off the end of charge Beeper warning, press the **NEXT** button.
6. Using the **UP** or **DOWN** button, change the End Beep ? Y to N.
7. Press **NEXT** button to accept change.
8. Press **UP** or **DOWN** button to display the EXIT option.
9. Press **NEXT** button to exit the configure mode.

10. The BC-9000 will reboot the display and beep signaling the changes.
11. Use the UP or DOWN button the select other modes.

## **BATTERY CHARGING**



**DANGER:** The BC-9000 battery charger is a fully adjustable battery charger. The BC-9000 will follow the operator settings during the battery charge cycle. Always consult the battery manufacturer's CMM guidelines before starting a charge cycle. ***If the battery is subjected to improper charge settings, serious damage or injury can occur to the operator and the BC-9000.*** Critical settings, such as maximum charge voltage, maximum charge amperes, and charge time must follow the battery manufacturer's CMM guidelines. Always remove the battery from the equipment before starting a charge cycle. SAFETY FIRST!

1. Set the BC-9000 on a stable suitable surface.
2. Plug the AC cord (PN 4161-11) IEC 320-C13 plug into the IEC 320-C14 receptacle located in rear of the BC-9000. Plug the remaining end into AC power source. (Note: The BC-9000 comes standard with an IEC 320-C13 to NEMA 5 -15P AC power cord. Other AC cord configurations are available)
3. Connect the DC cord (4169-50) to the BC-9000 dc output gray connector and to the battery using the proper connector.
4. Set the BC-9000 AC power switch to the ON position
5. The BC-9000 will charge the battery using a single step or two step charge mode. Using the UP or DOWN button, select charge steps. Single step charging is used to charge lead-acid and Lithium-Ion batteries using constant potential charging. Two step charging is used to constant current charging of nickel cadmium batteries. Press **NEXT**.
6. If a single step was selected above, enter the battery recharge time using the **UP** or **Down** buttons to increase or decrease charge time. Charge time is in minutes with 60 minutes equaling 1-hour charge time. Tip:  *Holding down the **UP** or **DOWN** buttons will rapidly advance the number selection.* Press **NEXT**.
7. The BC-9000 display will now ask for a CHARGE VOLTS? selection. Single step charging requires only one charge voltage selection. Charging voltage can be adjusted from 3.0 to 40.0 volts. Use the **UP** or **DOWN** button to set the charging voltage. This voltage is the maximum voltage the BC-9000 will output to the battery. **Consult with the battery manufacturer for proper recharge voltage settings.** Note: *The charge voltage selection must always be greater than the batteries rated voltage.* Press **NEXT**.
8. The BC-9000 will now ask for CHARGE AMPS? selection. The BC-9000 recharge current can be adjusted from 0.05 to 25 amperes between 3.0 to 36 volts. Above 36.0 volts, the maximum output amps is 22.0 ADC. **Consult the battery manufacturer charging guidelines for proper settings.** Never set the recharge amperes to a value outside the battery recharge specifications. Press **NEXT**.
9. The BC-9000 will display the message START CHARGING? Press **NEXT**. Pressing the next button will start the battery charging cycle. With the charger running, the BC-9000 display will show all the entered settings under the CHARGING heading on the left side of the display. The arrow displayed will point to the setting that is active at that moment of the charge cycle. On the right side of the display all the charging readings are displayed under the ACTUAL heading. Upon completion of the charge cycle the audio buzzer will beep, signaling the charge is done.



Note: *The charge cycle can be stopped at any time by pressing the **NEXT** button.*

If two step charge was entered above, the BC-9000 will display CHARGE Step 1 Time?

Enter the first step charge time using the **UP** or **DOWN** button. The time can be adjusted from 1 minute to 999 minutes. Press the **NEXT** button to advance the display menu.

The BC-9000 will display CHARGE Step 1 Volts? Use the **UP** or **DOWN** button to adjust the value from 3.0 to 40.0 volts. Press the **NEXT** button to advance the display menu.

Now enter the first step charge current setting using the **UP** or **DOWN** button. The charge current can be adjusted from 0.05 to 25 amperes between 3.0 volts and 36.0 volts. Above 36.0 volts, the maximum output current is limited to 22.0 amps. Press the **NEXT** button to advance the display menu.

The BC-9000 will display CHARGE Step 2 Time? Use the **UP** or **DOWN** button to adjust the charge time value from 1 minute to 999 minutes. Press the **NEXT** button to advance the display menu.

The BC-9000 will display CHARGE Step 2 Voltage? Using the **UP** or **DOWN** button, the step 2 voltage can be adjusted from 3.0 to 40.0 volts. Press the **NEXT** button to advance the display menu.

Now enter the second step charge current setting using the **UP** or **DOWN** button. The charge current can be adjusted from 0.05 to 25 amperes between 3.0 volts and 36.0 volts. Above 36.0 volts, the maximum output current is limited to 22.0 amps. Press the **NEXT** button to advance the display menu.

The BC-9000 will display the message START CHARGING? Press **NEXT**. Pressing the next button will start the battery charging cycle.

With the charger running the BC-9000 display will show all the entered settings under the flashing CHARGING/Step 1 heading on the left side of the display. The arrow on the far-left points to the limiting item now. TIME, VOLTS, or AMPS. If a charge time limit was met the arrow will point to TIME. If the unit is limiting the current to the user's current limit setting, the arrow will point to AMPS (this is constant current mode). If the unit is limiting the voltage to the user's voltage limit setting, the arrow will point to VOLTS (this is constant potential mode). The arrows will point to only 1 item at a time. If a charge time limit has not been reached the arrow will point to VOLTS or AMPS to indicate constant voltage or constant current charge mode respectively. The operating modes constant potential or constant current are automatically invoked by your VOLTS and AMPS limit settings. The arrow displayed will point to the setting that is active at that moment of the charge cycle. On the right side of the display all the current charging readings are displayed under the ACTUAL heading. Upon completion of the charge cycle the BC-9000 will turn off the charge and turn on the audio beeper to signal the charge cycle is done.



*The charge cycle can be stopped at any time by pressing the **NEXT** button.*

## ***AGM BATTERY DEEP DISCHARGE RECOVERY (D.D.R.) Mode***

Deep Discharge Recovery (D.D.R) mode is specifically for Concorde® sealed AGM Aircraft lead-acid batteries. If a battery has been accidentally completely discharged, D.D.R. provides the battery technician with a charge routine that attempts to recover the battery to working condition. The D.D.R. charge routine utilizes two phases, D.D.R.1 and D.D.R.2. D.D.R.1 consist of a 240-minute constant current pre-charge. The maximum charge voltage is set to 36 volts for a 24-volt battery and 18-volts for a 12-volt battery. The charge current is set to 1/10<sup>th</sup> the batteries C1 Amp hour rating. A C1 rated battery of 40-Ahr yields a constant current 4-Amp charge rate.

D.D.R.1 starts with 240 minutes of charge time. After the 240-minute time is reached, the D.D.R.1 program checks the on-charge battery voltage. If the battery voltage rises to or greater than the prescribed battery voltage set point (12-volt battery = 15.5-volts, 24-volt battery = 31-volts) D.D.R.2 is started. If the on-charge voltage is less than the prescribed voltage, the D.D.R.1 charge is continued up to 1440 minutes. If the prescribed-on charge voltage point is not reached after 1440 minutes, D.D.R. is terminated.

D.D.R.2 phase will load the charger timer with 240 minutes (4-hours). The D.D.R.2 charge amperage is 1/10<sup>th</sup> the battery C1 rating.



For non-Concorde® sealed AGM lead acid batteries, consult your battery manufacturer's component maintenance manual (CMM) before using the DDR charge mode.



**Never use D.D.R. Charging on Nickle Cadmium or Lithium-Ion batteries.**

1. Set the BC-9000 on a stable surface.
2. Plug the AC cord (PN 4161-11) IEC 320-C13 plug into the IEC 320-C14 receptacle located in rear of the BC-9000. Plug the remaining end into AC power source. (Note: The BC-9000 comes standard with an IEC 320-C13 to NEMA 5 -15P AC power cord. Other AC cord configurations are available) Set the AC power switch to the ON position.
3. Connect the BC-9000 DC output cord (4169-50) to the battery.
4. Press the UP or DOWN buttons to select the Mode? DEEP DIS. RECOVER.
5. Press the **NEXT** button to select the DEEP DIS. RECOVER option.
6. Press the UP or DOWN buttons to select the battery voltage. 12 or 24-volts.
7. Press the **NEXT** button to enter the value.
8. Now select the C1 AMPS ? Use the UP or DOWN buttons to select the C1 Ahr battery rating. This value can be found in the battery manufacturer's model specifications.
9. Press the **NEXT** button to select the entered value.
10. Press the **NEXT** button to start the DEEP DIS. RECOVER mode.
11. To stop the DDR charge routine, press the **NEXT** button.
12. At the completion of the DDR charge, the BC-9000 LCD display will provide a summary of the charge results.

## AGM CONDITIONING CHARGE MODE



**Never use Conditioning Charging on Nickle Cadmium or Lithium-Ion batteries.**

Conditioning charging an AGM lead-acid aircraft battery is used to attempt to reverse battery capacity loss due to plate sulfation. Consult the batteries Component Maintenance Manual (CMM) for instructions.

1. Set the BC-9000 on a stable surface.
2. Plug the AC cord (PN 4161-11) IEC 320-C13 plug into the IEC 320-C14 receptacle located in rear of the BC-9000. Plug the remaining end into AC power source. (Note: The BC-9000 comes standard with an IEC 320-C13 to NEMA 5 -15P AC power cord. Other AC cord configurations are available)
3. Set the AC power switch to the ON position.
4. Connect the DC output cord (4169-50) to the BC-9000 and to the battery using the proper connector.
5. Press the UP or DOWN button to select the Mode? CONDITIONING
6. Press the **NEXT** button to select the CONDITIONING mode.
7. Press the UP or DOWN buttons to select the battery voltage 12 or 24-volt. Press **NEXT**.
8. Now select the C1 AMPS ? Use the UP or DOWN buttons to enter the C1 Ahr battery rating. (The C1 value can be found in the battery manufacturer's model specifications).
9. Press the **NEXT** button to select the entered value.
10. Pressing the UP or DOWN button, select an 8-hour or 16-hour conditioning charge time. Press **NEXT**.
11. Press **Next** to start the conditioning charge.
12. To stop the conditioning charge, Press the **NEXT** button.

The BC-9000 conditioning charge mode will apply a constant current charge rate of C1 Ahr/10 to the battery. The BC-9000 condition charge amps can range from 0.050 amps (C1 = 0.5 Ahr) to 25.0 amps (C1 = 250 Ahr).



**Monitor the battery for excess heating and terminate the charge if overheating occurs.**

## POWER SUPPLY MODE



The BC-9000 DC output connector has power applied when the power supply mode is active. **Never attach a load to the DC output with the output energized.** Sparks at the DC output connector can occur.



**Never use an improper adaptor connector to attach the BC-9000 to the targeted equipment.**

1. Set the BC-9000 battery charger on a stable suitable surface.
2. Plug the AC cord (PN 4161-11) IEC 320-C13 plug into the IEC 320-C14 receptacle located in rear of the BC-9000. Plug the remaining end into AC power source. (Note: The BC-9000 comes standard with an IEC 320-C13 to NEMA 5 -15P AC power cord. Other AC cord configurations are available)
3. Connect the DC output cord (4169-50) to the BC-9000 DC output (gray) output connector. Connect the remaining DC output cord connector (gray) to the proper adaptor cable used to interface to the load being powered.
4. Set the BC-9000 power switch to the ON position.
5. With the BC-9000 displaying MODE? Press the UP or DOWN button to select PWR SUPPLY. Press **NEXT**.
6. With the BC-9000 displaying PWR SUPPLY Volts? Select the voltage using the UP or DOWN buttons. Press **NEXT**.
7. With the BC-9000 displaying PWR SUPPLY Amps? Select the maximum amperage using the UP or DOWN buttons. Press **NEXT**.
8. Press **NEXT** when you see START POWER? to start the power supply output.
9. To turn off the BC-9000 DC output, press **NEXT** button.

### **BC-9000 CARE**

Your BC-9000 battery charger should be treated as precision equipment and misuse will shorten its ability to perform accurate battery charging. Some simple guidelines of care will insure trouble free operation.

1. Do not drop the BC-9000 or expose it to rough handling.
2. Do not expose the BC-9000 to water or fluids of any kind.
3. Do not operate the BC-9000 in a closed-up area.
4. Do not connect the BC-9000 to batteries of improper voltage ratings.
5. Do not operate the BC-9000 with the air intake or exhaust outlet blocked or restricted.
6. Do not carry the BC-9000 by the main power cable.
7. Do not operate the BC-9000 near flammable materials.
8. Do not expose the BC-9000 to direct sunlight during operation.
9. Do not expose the BC- 9000 to any other heat sources.
10. Always contact the technical support for questions on BC-9000 safety and operation.  
E-mail [support@cofko.com](mailto:support@cofko.com)

**REMEMBER SAFETY FIRST!**

## **BC-9000 TECHNICAL SPECIFICATIONS**

AC Input Voltage	100-264VAC 1PH 47 to 63Hz.
AC Input Current	15 Amps @ 115VAC / 7.5 Amps @ 230VAC
AC Input Frequency	47-63 Hz
DC Output Voltage Minimum	3.0 VDC
DC Output Voltage Maximum	40.0 VDC
DC Output Current Minimum	0.050ADC
DC Output Current Maximum	25.0 ADC (3.0 to 36.0 VDC) 22.0 ADC (36.1 to 40 VDC)
Case Length	14 in. (35.5cm)
Case Width	9.25 in. (23.5cm)
Case Height	8.0 in. (20.3cm)
Weight	14 lbs. (8.1kg)
Operation Temperature Range	-20 to 50 Deg. C
Maximum Operating Altitude <sup>1</sup>	6500 ft (1981.2m)

1. Consult factory for operation above maximum altitude rating.

## **BC-9000 LIMITED WARRANTY**

### **STATEMENT OF WARRANTY**

COFKO Electronics LLC warrants to the original purchaser (end user) of the BC-9000 that it will be free of defects in workmanship and materials. This warranty is void if COFKO Electronics LLC finds that the BC-9000 has been subjected to improper care, abnormal operation, or modification.

### **WARRANTY PERIOD:**

The warranty period covers the original purchaser (end user) from the date of shipping.

1 Year: Covers each BC-9000 for workmanship, material, and labor.

### **TO OBTAIN WARRANTY COVERAGE:**

You are required to notify COFKO Electronics LLC, of any defects within the warranty period. Written notification is recommended.

### **WARRANTY REPAIRS:**

If upon inspection COFKO Electronics LLC confirms the existence of a defect covered by this warranty, the defect will be corrected by repair or replacement at COFKO Electronics LLC option.

### **WARRANTY COST:**

The purchaser must bear the cost of shipping the BC-9000 to COFKO Electronics LLC as well as the return shipping cost.

### **IMPORTANT WARRANTY LIMITATIONS:**

1. COFKO Electronics LLC will not accept responsibility for repairs made without authorization.
2. COFKO Electronics LLC shall not be liable for consequential damages (such as lost business, etc.) caused by a defect or reasonable delay in correcting a defect to the BC-9000.
3. COFKO Electronics LLC liability under this warranty shall not exceed the cost of correcting the defective BC-9000.

This written warranty is the only expressed warranty covering the BC-9000. All warranties implied by law such as Warranty of Merchantability are limited to the duration of this limited warranty of the BC-9000. Check your local legal rights for further rights you may have.

**BC-9000 NOTES**

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