CINDER™40 INTEGRATION KIT
QUICK START GUIDE

ZAMP SOLAR
DOMETIC

CONTENTS

A. CINDER™40 Charge Controller (SCC1005)
B. 2 Port ATP Roof Cap (CAP1001)
C. Battery MRBF Fuse Post
D. 50A MRBF Block Fuse
E. Negative Junction Post
F. Solar Circuit Breaker
G. 2x10ft 6 AWG Zip Wire with Ring Terminals on one end (WIR3001)
H. 1x2ft 6 AWG Zip Wire with Ring Terminals on one end (WIR3003)
I. 4 stainless steel machine screws (#8, 5/8")

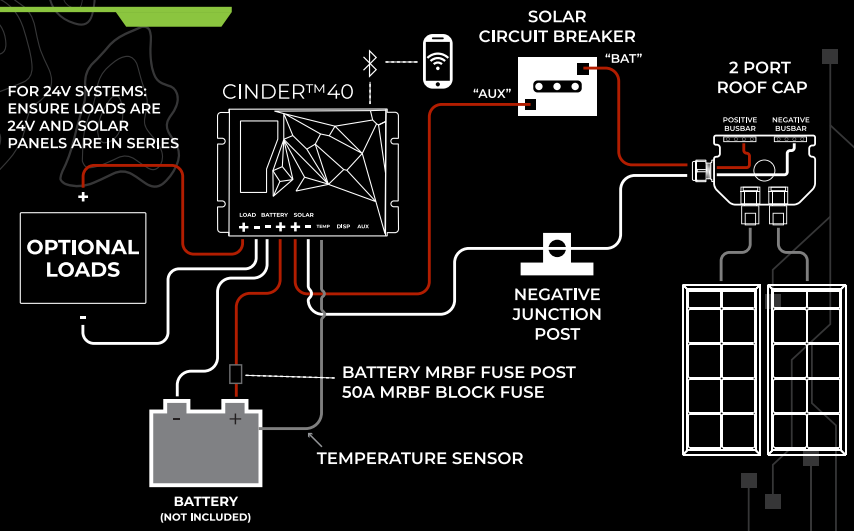
NOT INCLUDED

- Mounting screws for charge controller

TOOLS NEEDED

- **6AWG Wire Strippers**
- **7/16" Socket, Nut Driver or Open Ended Wrench**
- **9/16" Socket, Nut Driver or Open Ended Wrench**
- **#2 Phillips Head Screwdriver**
- **Drill**
- **1" Hole Saw**
- **Razor Blade**

CINDER™40 INTEGRATION KIT WIRING DIAGRAM



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STEP 1: WIRE THE CINDER™40 TO THE BATTERY

A. Mount the CINDER™40 Charge controller (A) into place using the mounting tabs on the sides of the heat sink
   - If mounting area makes it difficult to install wires into the CINDER™40, it is recommended to wail until both the battery and solar wires are installed as detailed by this quick start guide.

B. Install the Circuit Breaker (F) and negative junction post (E) less than 2 feet from the CINDER™40 charge controller using the 4 machine screws (I).

C. For all lead acid battery acid types, use the included flathead screw driver in the CINDER™40 packaging to install the battery temperature sensor to the “TEMP” inputs on the CINDER™40. Then tape the ring terminal onto the top of the lead acid battery.

D. Install the Battery MRBF fuse post (C) onto the positive terminal of the battery and tighten the battery post down according to the battery manufacturer’s specifications.

E. Using a razor blade, carefully separate bare end of 10ft Zip wire (G) to desired length.

F. Using wire strippers, strip back wires approximately 1/2.”

G. Using a flathead screwdriver, connect the positive (red) and negative (black) battery harness wires to the CINDER™40 to the appropriate positive and negative battery inputs.

H. Connect the negative (black) wire from the battery harness to the negative battery terminal post.

I. Install the 50A MRBF block fuse (D) onto the battery MRBF fuse post (C).

J. Place the ring terminal for the positive (red) battery wire on top of the 50A block fuse and install nut.

K. Verify the CINDER™40 turns on and connect using the CINDER™40 app. **Note the CINDER™40 may require update upon first connection.*

L. Set the appropriate battery profile using the app.

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STEP 2: WIRE THE CINDER™40 TO THE SOLAR CIRCUIT BREAKER AND NEGATIVE JUNCTION POST

A. Using a razor blade, carefully separate bare end of 2ft Zip Wire (H) to appropriate length.

B. Using wire strippers, strip back wires approximately 1/2."

C. Using a flathead screwdriver and the 7/16" socket, connect the positive (red) wire from the "AUX" terminal of the Solar Circuit Breaker (F) to the positive solar input of the CINDER™40. (See image)

D. Using a flathead screwdriver and the 9/16" socket, connect the negative (black) wire from the negative junction post (E) to the negative solar input of the CINDER™40. (See image)

STEP 3: FOLLOW THE ROOF CAP INSTALLATION INSTRUCTIONS

Roof Cap Mounting Quick Start Guide

STEP 4: WIRE ROOF CAP TO SOLAR CIRCUIT BREAKER AND NEGATIVE JUNCTION POST

A. Connect the negative solar wire (black) to the negative junction post with the 9/16" socket and the positive solar wire (red) to the Circuit Breaker terminal labeled "BAT" with the 7/16" socket.

STEP 5: CONNECT PANELS TO THE ROOF CAP

A. Proceed with panel installation.

B. Plug the panels into the 2 port roof cap. 25 Amp max per port. Check the CINDER™40 app and verify the battery is now charging.

**FOR 24V SYSTEMS. When connecting in series, balance power between ports. Example: 1x100W on the left and 1x100W on the right.*