

CINDER™40 INTEGRATION KIT QUICK START GUIDE

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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")

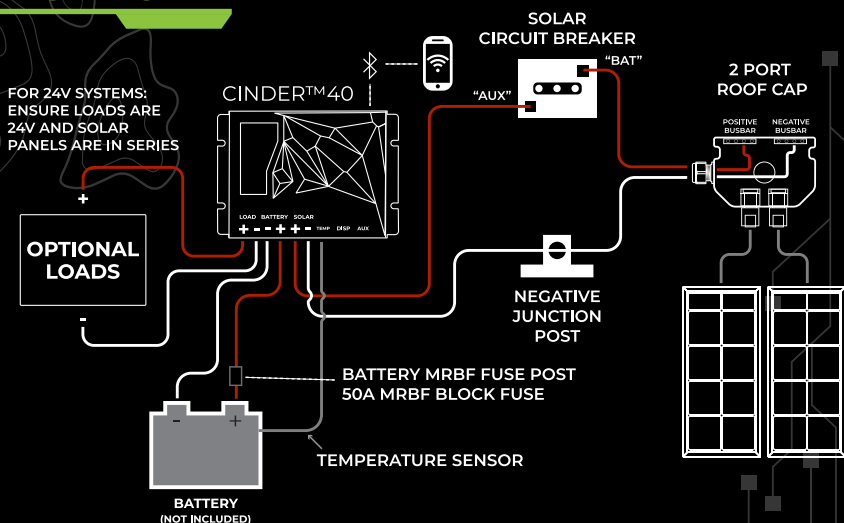
NOT INCLUDED

- 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 wait 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.*



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