



SUN ELECTRIC CORPORATION

Model: **CWB-1840**
UNIT SET UP

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Field Installation Instructions

INSTALLATION MUST BE PERFORMED BY QUALIFIED SUN SERVICE PERSONNEL ONLY

INSTALLATION OVERVIEW:

The CWB 1840 is shipped as a fully assembled unit, with the exception of the CRT Assembly, Hood, Hub Assembly, and accessories.

PARTS LIST:

NOTE : *The three groups of three, nine digit Part Numbers are SUN Part Numbers in Beissbarth format.*

<u>Description</u>	<u>Part Number</u>	<u>Quantity</u>
Wheel Balancer		1
Safety Hood	931-505-024	1
Hood Frame	931-524-005	1
End Cap	974-165-065	1
Bolts M8 x 4 5	975-120-383	2
Nut M8	975-110-035	2
Cable Ties	860-001-487	6
Graphics Kit	1091-0172-01	1
Installation Instructions	0692-1934-01	1

REQUIRED TOOLS:

Hammer Drill or Rotary Impact Hammer
1/2" Masonary Drill Bit
3/4" Wrench
Torque Wrench and 3/4" Socket
Safety Goggles
Complete Sun Issued Tool Kit
Metric Wrench set

INSTALLATION PROCEDURE:

USE **STANDARD SAFETY PRECAUTIONS WHILE PERFORMING THIS PROCEDURE**

1. Carefully unpack the unit and dispose of the packing material.
2. Unbolt the Balancer from the skid and carefully slide it onto the floor.

3. Unpack the Hood and Hood Bracket and dispose of the packing material.
4. Bolt Hood Frame (931-524-005) using 2 bolts (975-120-383) and nuts (975-110-035) supplied.
5. Position Safety Hood (931-505-024) in place on frame and install the six (6) black cable ties (860-001-487) to hold the Hood in place. Pull the cable ties very tight and trim to remove excess length.
6. Unpack the CRT Assembly from the larger of the boxes packed with the unit.
7. With the CRT screen facing toward the front of the unit, place the square indent of the CRT Casing on the Pedestal Base above and behind the Weight Tray.
8. Remove the CRT Connecting Plug and Retaining Screw from the plastic bag at the end of the CRT cable.
9. Insert and tighten the retaining screw in the lower back of the CRT Assembly near the CRT cable.

NOTE: *Ensure the screw goes in straight and doesnot get cross-threaded.
Also, ensure the CRT Assembly is securely attached to the Pedestal Base.*

10. Plug the CRT Connecting Plug into the Receptacle on the back side of the Pedestal Base. Insert the small tab on the top of the connector then push in the bottom of the connector until the latch catches.
11. If the A/C plug is not installed, install it as shown in Figure 1.

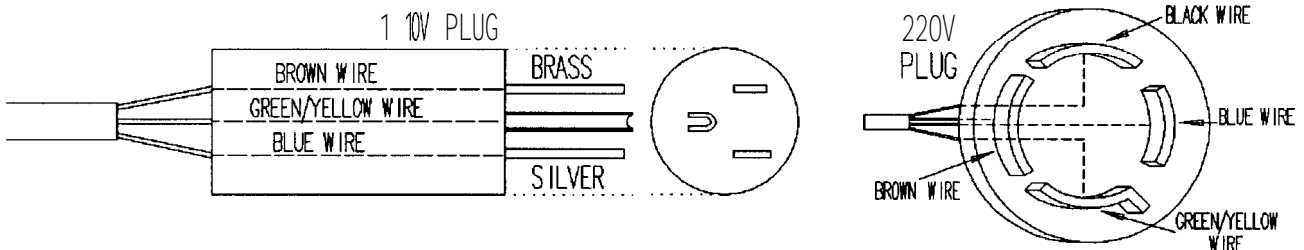


Figure 1 A/C plug color code

12. If the Balancer is a 220V Three Phase, check for proper rotation of the shaft by running through a balance cycle. The tire should turn in the direction of the arrow. If not, error code "3" will be displayed on the screen. Reverse the Brown Wire and the Black Wire in the A/C plug.
7. Install the graphics from the Graphics Kit 1091-0172-01, use the instructions included with that kit to install the graphics.

*** INSTALLATION COMPLETE ***

13. Move the **Balancer** to its final position and mark the location of the three holes for the Mounting Studs. Be sure to leave enough clearance between the machine and the wall to allow the **Balancer Safety Hood** to open fully.
14. Move the **Balancer** and drill the three mounting holes for the studs. Ensure proper protective equipment is worn when drilling these holes.
15. Install the Mounting Studs into the concrete floor. Clean the area where the **Balancer** will be installed. Place several washers on each stud to space the **Balancer** off the floor.
16. Install the balancer over the studs and, using a torque wrench, tighten the 3/4" nuts to 25 ft-lb.
17. Clean the Wheel **Balancer** Shaft with a parts solvent to remove any trace of protective coating.
18. Install **Balancer** Flange Plate Assembly and tighten with large hex wrench.
19. Do a Flange Calibration using the following instructions:
 - a. Place Spring, medium size Cone, Drum and Hub nut on shaft and tighten.
 - b. Press C to clear the machine.
 - c. Press CAL ZERO Key for 5 seconds, and CAL 000 will appear on the displays.
 - d. Close the Hood and Press Start.
 - e. When the machine stops the Flange Calibration is complete.
20. Machine calibration with wheel.
 - a. Mount and balance a bare rim to less than .25 OZ.
 - b. Press CAL ZERO KEY for 5 seconds, and CAL 000 will appear on the displays.
 - c. Close the Hood and Press Start.
 - d. When the machine stops the Zero Wheel Calibration is complete.
21. Calibration with 2 ounce weight.
 - a. With the same wheel mounted place a 2 ounce weight on the rim at 6 o'clock position.

NOTE: *The earth will open up and swallow you whole and spit out your buttons if you do not place the weight at exactly 6 o'clock position.*

- b. Press the CAL 060 key for 5 seconds. The display will read CAL and it will be necessary to enter 060 from the keyboard. (060 grams is close to 2 ounce in the metric system.)
 - c. Close the Hood and Press Start.
 - d. The machine will spin for about 20 seconds and stop.
22. Remove the wheel and repeat step 19 Flange calibration.

CHECK OUT PROCEDURE: _____

1. Properly mount a 14" wheel and tire on balancer.
2. Program the Potentiometers with the correct values for Width, Diameter, and distance.
3. Balance the assembly with the Weight Threshold showing one red and a green light.
4. Place a 2 ounce weight on the outside of the wheel.
5. Close the hood and the wheel will spin.
6. The display should show 2 Oz. \pm 0.2 Oz. on the outside display and 0.0 Oz. \pm 0.2 on the inside display.

* CHECK OUT COMPLETE *

**INSERT THESE INSTALLATION INSTRUCTIONS IN THE BACK
OF THE APPROPRIATE SUN SERVICE MANUAL**