



SUN ELECTRIC CORPORATION

Model: **CWB-1810**
SET-UP
0119-0348-01
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Field Installation Instructions

INSTALLATION MUST BE PERFORMED BY QUALIFIED SUN SERVICE PERSONNEL ONLY

INSTALLATION OVERVIEW:

The CWB-1810 wheel balancer is a very quiet computer balancer. It is designed to operate at 110V. The installation requires the balancer to be bolted to the floor for accurate operation.

PARTS LIST:

<u>Description</u>	<u>Part Number</u>	<u>Quantity</u>
CWB-1810 BALANCER		1
HOOD AND FRAME		1
WASHERS 5/16" ID		6
WASHERS STAR 5/16" ID		6
NUTS 6M		6
BOLTS 1" LONG		4
BOLTS SOCKET HEAD 1 1/5"		2
CABLE TIE MOUNT		1
CABLE TIE		1
ACCESSORIES		
WEIGHT TOOL	2600-60	1
CALIBRATION WEIGHT SET	1605-BR-100	2
WHEEL WIDTH GAUGE	G14346	1
SMALL CONE	G17762	1
LARGE CONE	G17763	1
SPRING	617759	1
CLAMPING DRUM/BELL	G14373	1
CLAMPING NUT / HUB NUT	G17093	1
SPINDLE SCREW	G17095	1
WRENCH 18MM X 19MM	G21986	1
WARNING STICKER	0682-0728	1
WARNING STICKER	1000-0032-01	1
WARNING STICKER	1000-0033-01	1
WARNING STICKER	7300-1369-01	1
OPERATORS MANUAL	0692-2119-01	1
QUESTIONNAIRE/Q.A.	0692-1834-01	1
PRODUCT REGISTRATION FORM	0692-1928-01	1
INSTALLATION INSTRUCTIONS	0692-2134-01	1

REQUIRED TOOLS: _____

COMPLETE SUN ISSUED TOOL KIT
SAFETY GOGGLES
HAMMER DRILL
3/8" CONCRETE DRILL BIT

INSTALLATION PROCEDURE: _____

USE STANDARD SAFETY PRECAUTIONS WHILE PERFORMING THIS PROCEDURE

1. Remove **balancer** from the box. Remove the **balancer** from the wood palate.
2. Using figure 1 **as** a guide mount the hood bracket to the **balancer** with the bolts and washers provided.

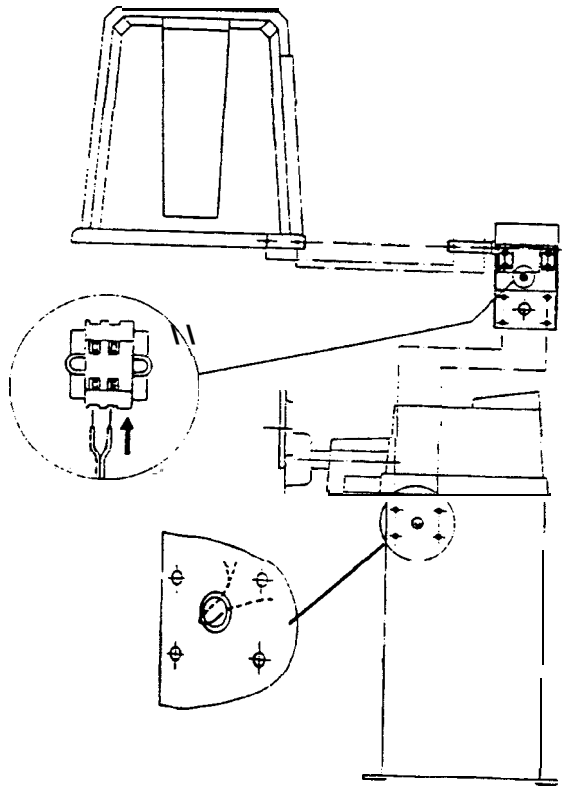


Figure 1 Hood Mounting



3. Connect the two wires from the **balancer** to the terminal block on the hood bracket. There are two places to insert the wires and you must depress the spring clip from the top **of** the terminal block to insert the **wires**.
4. Once the wires are installed mount the hood to the shaft using the socket head bolts, washers and nuts.
5. Apply the warning labels to the rear of the weight tray. Make sure the plastic is clean so the labels will stick.

6. Position the teeter with adequate clearance from the wall (to allow the hood to open). Drill the **holes** for the anchor **bolts** using the base of the tester for a template. When all the **holes** are drilled clean them out and install the **bolts**.
7. Place the teeter over the **bolts** and make sure the **balancer is** level on the floor. If not use **washers** to **shim** between the floor and the **balancer**. Tighten the **balancer** down with the nuts and washers supplied.
8. Clean all the adapters and threaded shaft with parts cleaner to remove all of the protective coating. Install the threaded shaft to the **balancer**. Use the wrench included to tighten the shaft. **Use** adequate force to tighten the shaft as we do not want it to come loose.

*** INSTALLATION COMPLETE ***

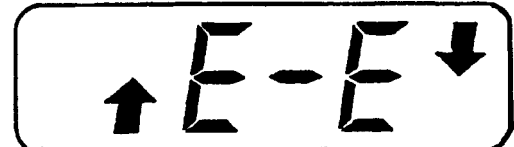
CALIBRATION PROCEDURE: _____

1. Properly mount a 14" x 6" wheel and tire on **Balancer**.
2. Program the display with the correct values for Width, Diameter, and Distance.
3. Balance the assembly in the normal sensitivity mode.

4. Key in the self-checking access code F90 then, immediately after, key in the self-checking mode **F1** by pressing the **keys:**  then  **display:**

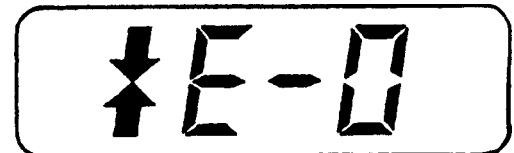


5. Spin up the wheel and take the readings. The following will be displayed.



6. Place 100 grams on each of the edges of the wheel rim at the EXACT points shown by the arrows (see NOTE: on next page). The outer weight and inner weight are therefore at 180 degrees from each other.

7. Spin up the wheel and take readings. following will be displayed.



8. Remove the 100 gram weight from the outer edge of the rim.

9. Spin up the wheel and take readings. Wait until the following is displayed. The wheel will automatically brake.



10. Remove the 100 gram weight from the inner edge of the wheel rim and place **it** on the outer edge **EXACTLY** at the position indicated by the arrows.
11. Spin the wheel and take readings. **Wait** until the following **is** displayed.



- NOTE: 1. The 100 gram weights used for this calibration are delivered by SUN with each machine. Part Number for the weight is 1605-BR-100.
2. The weights must be fitted in exactly the correct positions. If one of the balance weights on the wheel does not permit you to fit the zeroing weight at the required position. Then you must turn off the machine, remove the wheel and turn it through a quarter of a turn. Before restarting the self-zeroing cycle from the very beginning.
 3. If the wheel stops too quickly (wheel braked before the readings are all taken for example), the machine will display ERR and will produce a warning signal (a series of beeps). In this case, the self-zeroing cycle will have to be restarted from the beginning.

* CALIBRATION COMPLETE *

The following configurations should be entered into the **balancer**:

1. F2 to place the tester in Ounces.
2. **F5** to place diameter in Inches
3. F90 F60 Machine equipped with a Safety Hood.
4. F90 F65 and Validate key sets the **balancer** to the normal resolution for balancing.
5. F77 **sets** the **balancer** to start when the Hood Closes. F78 sets the **balancer** to start by the push-button only.

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