



Atlas WB21 WHEEL BALANCER

QUICK START GUIDE



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TEXAS

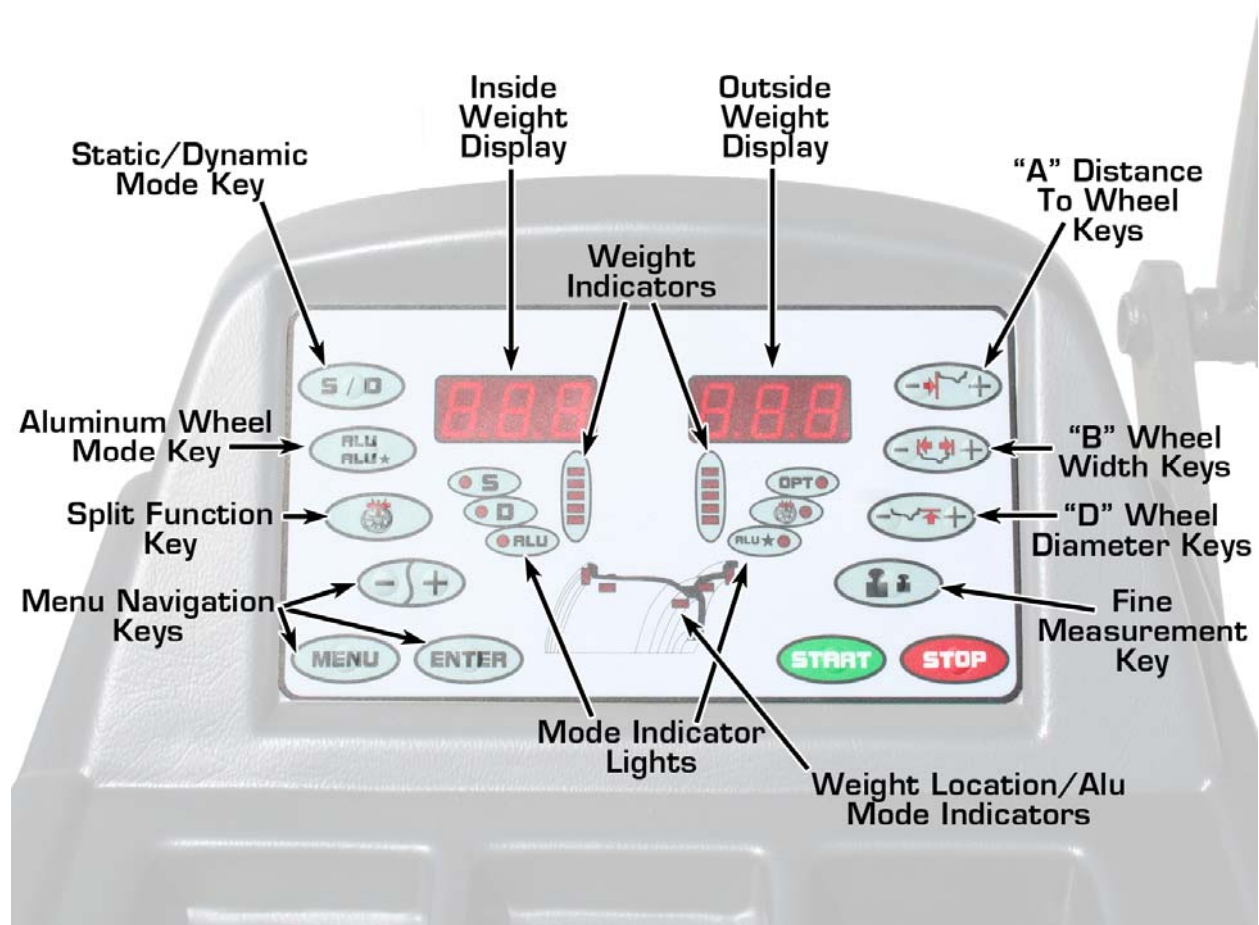
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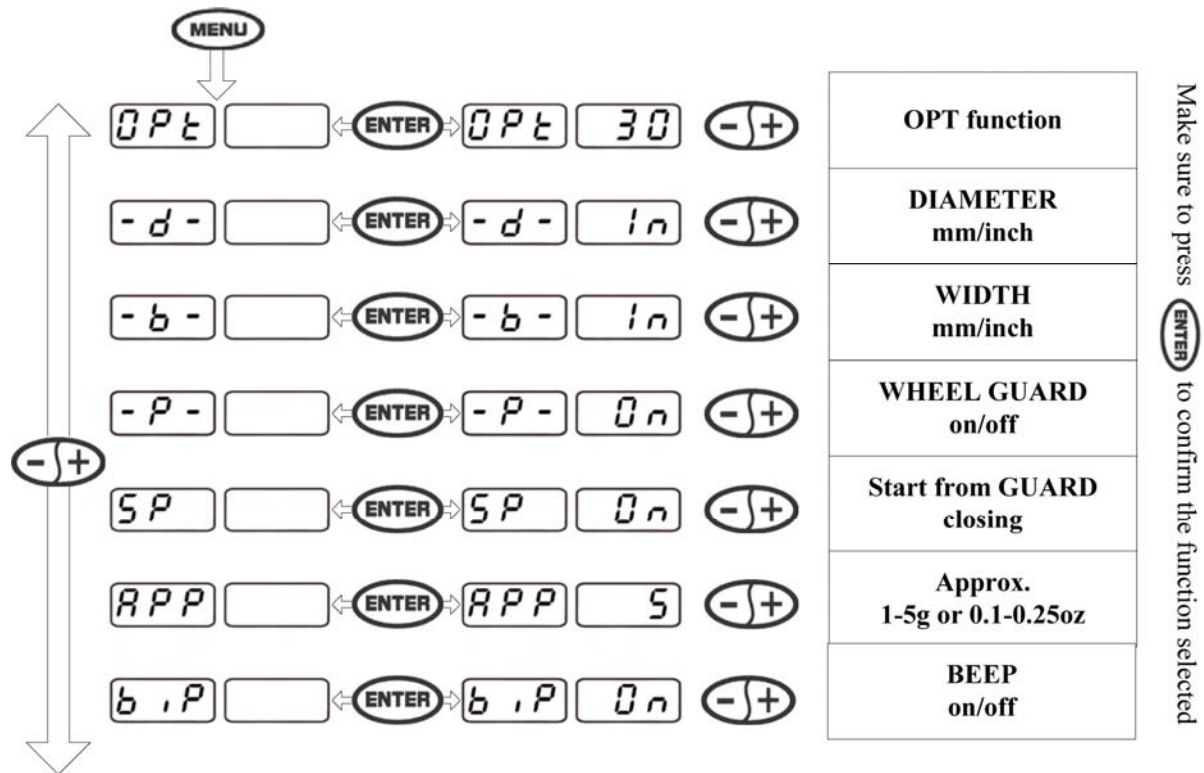
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CONTROL PANEL



Special Key Functions



Switching from grams to ounces

- STEP 1:** Press “MENU” to access the menu functions.
- STEP 2:** Use the “-/+” keys to scroll through the menu functions until “SET UP” is displayed.
- STEP 3:** Press “ENTER”
- STEP 4:** Use the “-/+” keys to scroll through the set up functions until “U” is displayed.
- STEP 5:** Press “ENTER”
- STEP 6:** Use the “-/+” keys to select ounces or grams. Press “ENTER” to confirm the setting.
- STEP 7:** Press “MENU” to exit. Press “STOP” to return to the regular balancing mode.

NOTE: Refer to the “Installation and Service Manual” for additional key functions and instructions.

CALIBRATION

STEP 1: Use a 15 inch diameter, 6 inch wide (P205/70 R15 or P215/70 R15), slightly used or new steel wheel and tire on the balancer. Only a hub-centric wheel may be used. Wheels that are lug-centric (center on the studs, not the center hole) cannot be used for calibration. Trailer wheels cannot be used for calibration. Aluminum or alloy wheels cannot be used for calibration. The wheel used must not have any weights installed. The only weight you will use in the calibration procedure is the special (red) calibration weight provided with the balancer. **Failure to follow these instructions will result in an incorrect calibration and poor balancing accuracy.**



Unacceptable Tire And Rim
For Calibration



Acceptable Tire And Rim
For Calibration

STEP 2: Begin by selecting a cone which will fit the center hole of the wheel.



STEP 3: Place the cone on the shaft.



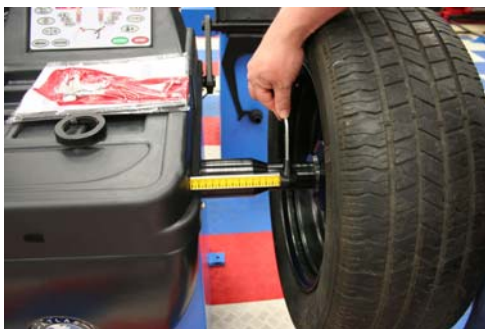
STEP 4: Next, place the wheel on the shaft.



STEP 5: Finally, place the Quick Nut on the shaft with the pressure cup attached. Tighten the Quick Nut securely, but do not over tighten.
NOTE: Over tightening the Quick Nut will cause damage to the nut.



STEP 6: Verify that the balancer is in DYNAMIC mode, then manually enter the...
“A” (distance of the wheel from the machine in millimeters)



“B” (width of the wheel in inches)



“D” (diameter of the wheel in inches; Use caliper, or refer to marking on tire)



NOTE: The measuring rod used to determine the “A” distance is marked in centimeters. You must convert to millimeters by multiplying the measurement by 10. This is the value you must enter as the “A” measurement. See the examples below:

Example 1 (shown): 13.1cm X 10 = 131mm (Enter 131 as “A”)



Example 2: 9.5cm X 10 = 95mm (Enter 95 as “A”)

In some cases, you must round the figure to the nearest millimeter as seen below:

Example 3: 3.75cm X 10 = 37.5mm (Enter 37 as “A”)

To enter the self-calibration mode, use the following steps:

STEP 1: Press “MENU” to access the menu functions

STEP 2: Use the “-/+” keys to scroll through the menu functions until “Set Up” is displayed.



STEP 3: Press “ENTER”

STEP 4: Use the “-/+” keys to scroll through the set up functions until “CAL” is displayed in the left window.



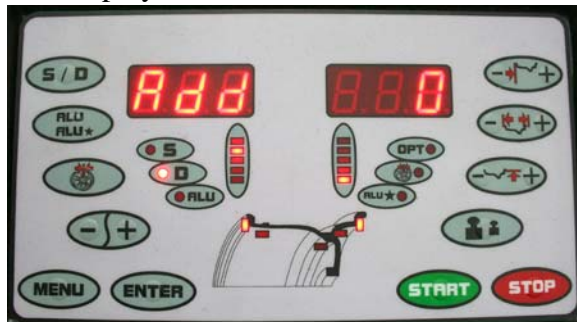
STEP 5: Press “ENTER”

STEP 6: Use the “-/+” keys to scroll through the calibration functions until “CAL-G” is displayed.

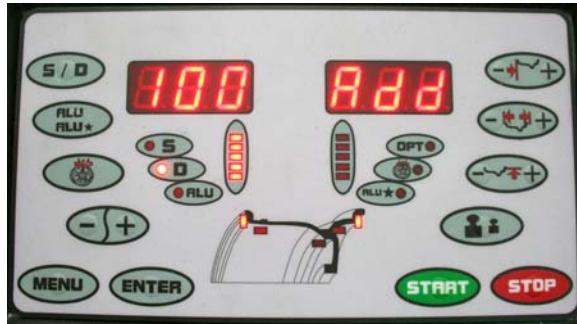


STEP 7: Press “ENTER”

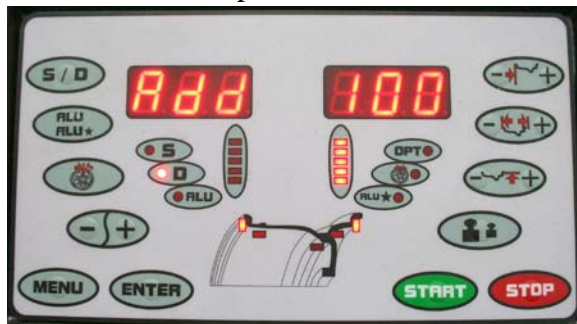
STEP 8: The display will read “Add 0”. Lower the hood and spin the wheel.



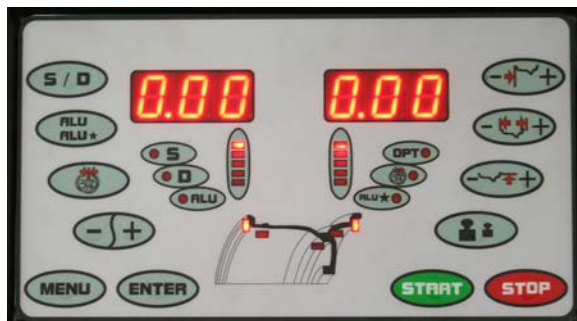
STEP 9: When the cycle is finished and the tire stops, the display will read “**100 Add**” (**3.5 ounce**). Rotate the wheel until all the inside weight indicators are fully lighted. Apply the **100 gram (3.5 ounce)** calibration on the inside edge of the wheel at the 12 o’ clock position. Lower the hood and spin the wheel.



STEP 10: When the cycle is finished, the display will read “**Add 100**” (**3.5 ounce**). Remove the calibration weight from the inside edge of the wheel. Rotate the wheel until all the outside weight indicators are fully lighted. Apply the **100 gram (3.5 ounce)** calibration weight to the outside edge of the wheel at the 12 o’ clock position. Lower the hood and spin the wheel.



STEP 11: After the cycle is finished, the screen will flash “**EOP ON**” then return to “**000 000**”. Your balancer is now calibrated.



Automatic Gauge Calibration

The automatic wheel gauge has been pre-calibrated at the factory and is ready to use. Under normal circumstances, it is not necessary for the operator to perform any additional calibration procedure.

If the balancer has been handled roughly during shipping, or if repairs have been made to the gauge assembly, the automatic wheel gauge may need to be recalibrated.

Only perform this procedure if the automatic wheel gauge does not measure accurately.

To perform the automatic gauge calibration, use the following steps:

STEP 1: Press the “MENU” key to access the menu functions

STEP 2: Use the “-/+” keys to scroll through the menu functions until “SET UP” is displayed



STEP 3: Press “ENTER”

STEP 4: Use the “-/+” keys to scroll through the set up functions until “CAL” is displayed.



STEP 5: Press “ENTER”

STEP 6: Use the “-/+” keys to scroll through the calibration functions until “CAL-A” is displayed



STEP 7: Press “ENTER”

STEP 8: The display will read “A-0 0”. Set the gauge to the “0mm” (fully closed) position as shown. While the gauge is held at the “0mm” position, press “ENTER” to save the setting in the balancer’s memory.



STEP 9: The display will read “A-t 200”. Move the gauge to the “200mm” (20cm) position as shown. While the gauge is held at the “200mm” position, press “ENTER” to save the setting in the balancer’s memory.



STEP 10: The display will read “CAL-d”. Press “ENTER”



STEP 11: The display will read “d-0 0”. Set the gauge at the “0mm” (fully closed) position as shown. While the gauge is held at the “0mm” position, Press “ENTER” to save the setting in the balancer’s memory.



STEP 12: The display will read “d-t 200”. Using a metric ruler, measure “200mm” (20cm) directly up (vertically) from the top of the balancer’s main shaft as shown.



STEP 13: Position the gauge so that its tip is lined up exactly with the “200mm” (20cm) measurement. While the gauge is held at the “200mm” (20cm) position, Press “ENTER” to save the setting in the balancer’s memory.



STEP 14: Press “MENU” to exit gauge calibration. Press “STOP” to return to balancing mode.