

**IMPORTANT**  
**DOCUMENT!**

**QUICK START GUIDE  
ATTACHED**

**DO NOT THROW AWAY**  
**THIS IS AN IMPORTANT**  
**DOCUMENT!**

**COSENG C311 WHEEL BALANCER**  
**QUICKSTART GUIDE**



**DO NOT USE AN**  
**EXTENSION CORD**

# TABLE OF CONTENTS

**PAGE 2:    BUTTON DIAGRAM/WHEEL DIMENSION GUIDE**

**PAGE 3-4:  CALIBRATION**

**PAGE 5:    CONVERTING GRAMS → OUNCES**

**PAGE 6:    BUTTON REFERENCE**

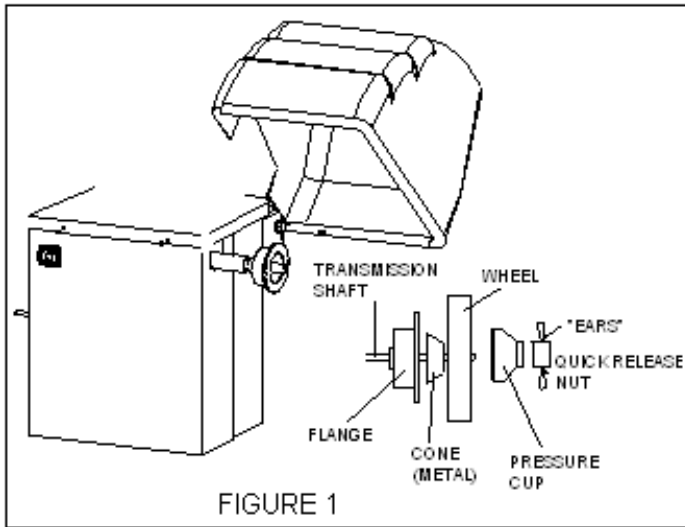


FIGURE 1

FIGURE 2

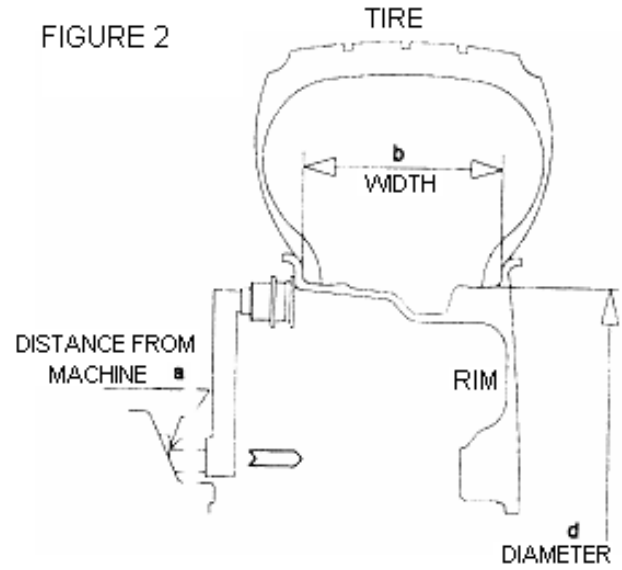


FIGURE 3



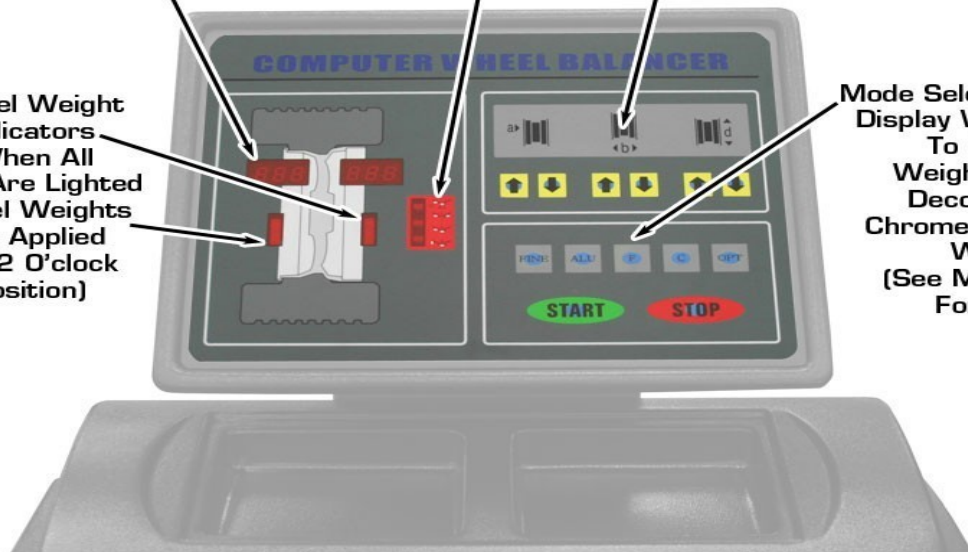
LED Display Shows Wheel Dimensions And Amount Of Weight Imbalance

Mode Indicators Show Correct Wheel Weight Position For The Mode Selected

Dimension Selector Buttons Enter The Dimensions Of The Wheel To Be Balanced

Wheel Weight Indicators (When All Bars Are Lighted Wheel Weights Are Applied at 12 O'clock Position)

Mode Selectors Display Where To "Hide" Weights On Decorative Chrome/Alloy Wheels (See Manual For Use)



# CALIBRATION

A. MOUNT A BARE 14 OR 15 INCH STEEL WHEEL ON THE BALANCER

B. BEGIN BY SELECTING A CONE WHICH WILL FIT THE CENTER HOLE OF THE RIM. PLACE THE CONE ON THE SHAFT AND THEN THE WHEEL ON THE SHAFT SO THAT THE WHEEL IS FIRMLY MOUNTED ON THE SHAFT. (SEE FIGURE 1)

## OVERTIGHTING THE QUICK NUT WILL CAUSE DAMAGE

C. MANUALLY ENTER THE (REFER TO FIGURE 2)

“A” (DISTANCE OF RIM FROM THE MACHINE) (SEE FIGURE 3 FOR HELP ON FINDING THIS MEASUREMENT)

“B” (WIDTH OF THE RIM) (TO FIND THIS DIMENSION USE THE LARGE PLASTIC CALIPER INCLUDED WITH YOUR WHEEL BALANCER. PLACE THE CALIPER POINTS ON THE OUTSIDE EDGES OF THE RIM AND THE ARROW ON THE RIGHT SIDE OF THE CALIPER WILL POINT TO THE “B” NUMBER.)

“D” (DIAMETER OF RIM)

## ENTER SELF CALIBRATION MODE USING THE FOLLOWING STEPS

1. PRESS AND HOLD THE F & C KEYS AT THE SAME TIME. THE WEIGHT POSITION LED'S ON THE DISPLAY WILL READ CAL CAL AND WHEN THE LED'S STOP FLASHING, RELEASE THE F & C KEYS.



2. CLOSE THE HOOD AND PRESS THE START KEY. (THE MACHINE WILL SPIN THROUGH A COMPLETE CYCLE FOR AROUND 20 SECONDS AND THEN COME TO A COMPLETE STOP.)



THE DISPLAY WILL READ ADD-100 OR ADD 3.50 (100G = 3.5OZ)



3. NEXT, RAISE THE HOOD AND ATTACH THE CALIBRATION WEIGHT, 100 GRAM/3.5 OZ., WHICH COMES WITH THE MACHINE TO THE OUTSIDE OF THE RIM IN ANY POSITION.



4. CLOSE THE HOOD AND PRESS THE START KEY. (THE MACHINE WILL SPIN THROUGH ANOTHER COMPLETE CYCLE FOR AROUND 20 SECONDS AND THEN COME TO A COMPLETE STOP.)

THE DISPLAY WILL READ END CAL



## CHECKING THE CALIBRATION

1. OPEN THE HOOD
2. CLOSE THE HOOD
3. PRESS "START"



THE BALANCER WILL SPIN THROUGH A NORMAL BALANCING CYCLE.

WHEN THE BALANCER STOPS, IT SHOULD ASK FOR 100G/3.5OZ AT THE 12 O'CLOCK POSITION ON THE WHEEL, WITH THE CALIBRATION WEIGHT AT THE 6 O'CLOCK POSITION.



REMOVE THE CALIBRATION WEIGHT (100 GRAM/3.5 OZ.) AND WHEEL.  
THE BALANCER IS NOW CALIBRATED AND READY FOR USE.

# CONVERTING GRAMS - OUNCES

1. TURN THE WHEEL BALANCER ON AND MOUNT A WHEEL ONTO THE MACHINE.

MANUALLY ENTER THE

“A” (DISTANCE OF RIM FROM THE MACHINE),

“B” (WIDTH OF THE RIM)

“D” (DIAMETER OF RIM)

2. CLOSE THE HOOD AND THE MACHINE WILL SPIN THROUGH A CYCLE AND COME TO A COMPLETE STOP. OPEN THE HOOD AND THE DISPLAY WILL SHOW THE WEIGHT REQUIRED IN THE LED SCREEN.

3. THE WEIGHT READING WILL BE IN GRAMS. TO CONVERT TO OUNCES:

PUSH AND HOLD:

“F” KEY AND EITHER THE “A↑” OR “A↓” MEASUREMENT KEY.



**THE KEYS MUST BE PUSHED SIMULTANEOUSLY.**

HOLD THE 2 KEYS UNTIL THE DISPLAY GOES BLANK (ABOUT 2 SECONDS).

4. YOU WILL KNOW THE WEIGHT SCALE HAS BEEN CHANGED TO OUNCES BY A DECIMAL POINT APPEARING IN THE LED



UNTIL THE BALANCER IS UNPLUGGED, IT WILL REMAIN IN EITHER GRAMS OR OUNCES, DEPENDING ON YOUR PREFERENCE.



## BUTTON REFERENCE



ALLOWS THE USER TO SWITCH BETWEEN DYNAMIC AND STATIC BALANCING MODES.



THE BALANCER AUTOMATICALLY ROUNDS OFF THE IMBALANCE VALUE TO THE NEAREST QUARTER OUNCE. THIS BUTTON ALLOWS THE USER TO SEE THE ACTUAL IMBALANCE VALUE OF THE WHEEL.



THE BALANCER IS CAPABLE OF ISOLATING THE HEAVY AND LIGHT SPOTS OF THE WHEEL/TIRE. USE THIS FEATURE WHEN THE BALANCER IS ASKING FOR MORE WEIGHT THAN YOU THINK THE WHEEL SHOULD NEED. THE BALANCER WILL INSTRUCT YOU ON WHERE TO MARK THE TIRE AND THEN THE WHEEL. YOU THEN WILL REMOVE THE WHEEL/TIRE ASSEMBLY FROM THE BALANCER, LET OUT THE AIR, AND LOOSEN THE BEAD.

MATCH UP THE MARK THAT YOU MADE ON THE TIRE WITH THE MARK ON THE WHEEL; NOW AIR UP THE TIRE AND PLACE THE ASSEMBLY BACK ON THE MACHINE AND RUN THROUGH A CYCLE. THE AMOUNT OF WEIGHT THE BALANCER ASKS FOR SHOULD BE CONSIDERABLY LESS THAN BEFORE.



ALLOWS YOU TO SCROLL THROUGH THE DIFFERENT ALLOY BALANCING OPTIONS. YOU CAN USE THE MORE COMMONLY USED CLIP-ON WEIGHTS, OR IF YOU WOULD LIKE THE WEIGHT TO BE HIDDEN, YOU CAN OPT TO USE ADHESIVE WEIGHTS. USE THE ALU KEY TO SCROLL THROUGH THE DIFFERENT OPTIONS AND CHOOSE THE ONE THAT BEST SUITS YOUR NEEDS.



PRESSING THIS KEY AFTER A CYCLE HAS BEEN COMPLETED WILL ALLOW YOU TO CHANGE PREVIOUSLY ENTERED DIMENSIONS AND THE BALANCER WILL RE-CALCULATE THE WEIGHT READING WITHOUT THE NEED TO RUN ANOTHER CYCLE.