Road Force Touch® GSP9700

The World's #1 Diagnostic Balancer

NEW!

HUNTER Engineering Company

Road Force Touch® at a glance

EXCLUSIVE

Now With More Speed!*

NEW!

✓ Perform a **Road Force® test and balance** faster than a traditional balancer!

STANDARD

Touchscreen Interface

NEW!

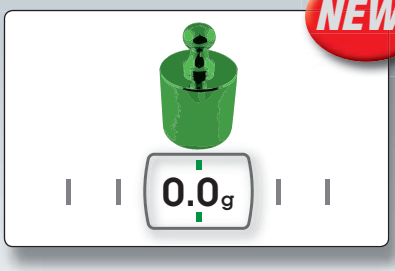
✓ Intuitive interface

✓ Quickly train new technicians

EXCLUSIVE

eCal™ Auto-Calibration*

NEW!



✓ True “self-calibration”

✓ No operator input required

Shown with options

** Patent pending*

PATENTED

Diagnostic Load Roller

- ✓ Solves vibration problems
- ✓ Identifies vehicle pulls
- ✓ Provides “new car ride”

PATENTED

SmartWeight®

- ✓ Improve balance
- ✓ Minimizes weight usage
- ✓ Maximizes productivity

STANDARD

Auto-Up Hood*

- ✓ Saves time
- ✓ Speeds operations

EXCLUSIVE

On-Demand Videos

- ✓ Simplify training
- ✓ Improve results

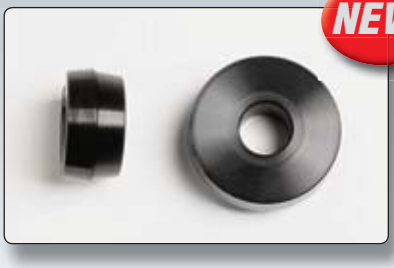
PATENTED

CenteringCheck®

- ✓ Ensures proper centering
- ✓ Eliminates setup errors

STANDARD

BullsEye™ Centering System



- ✓ Optimize centering
- ✓ Prevent wheel damage

Road Force® test and balance faster than a traditional

Measure Road Force on every customer wheel WITHOUT A TIME PENALTY!

Road Force Touch® Balance

Road Force Touch® balance starts when hood is lowered

NEW! Load roller measures Road Force while technician prepares correction weights

Traditional Balance

Balance starts when hood is lowered

Technician prepares correction weights

** Patent pending*

balancer!*

NEW!

Road Force Test and Balance

✓ Wheel is balanced

✓ Wheel is also verified to roll smooth

Road Force printout verifies results

NEW! Hood raises automatically for technician to install weights and perform check-spin

Balance

✓ Wheel is balanced

Technician manually raises hood, installs weights and performs check-spin

EXCLUSIVE

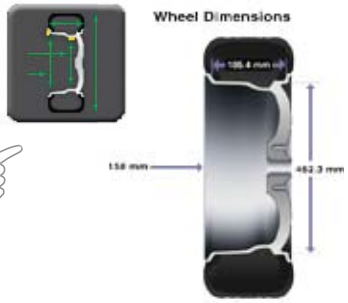
Intuitive touchscreen simplifies balance experience

Touching weight value servos wheel to weight location

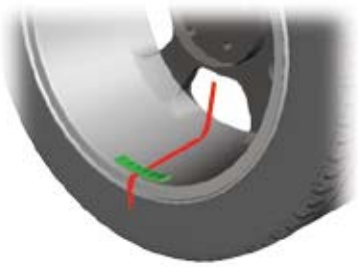
Rim cutaway displays selected weight mode

Simple buttons launch less-frequently used functions

Balancing interface at a glance

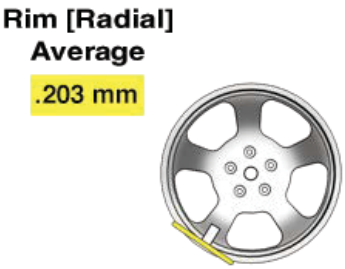


One touch to display rim dimensions

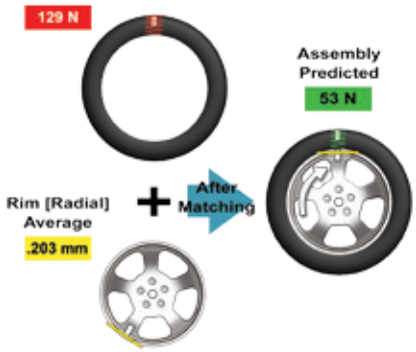


TruWeight™ provides live navigation through selection and placement of wheel weights

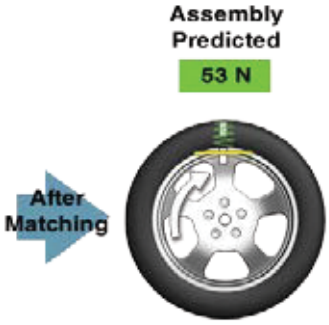
SmartWeight® panel displays wheel balance condition



Low spot on rim is identified

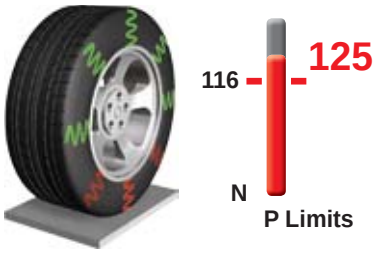


Simple graphics illustrate how to optimize assembly



See predicted improvement in one glance and how to do it

Road Force Measurement® interface at a glance



Road Force panel displays assembly value and limits

Helpful animation explains conditions

Live rim and tire conditions shown on-screen

Color-coding allows operator to visualize Road Force variations

Road Force Measurement® solves your common vibrat

Problem / Solution

Your customer complains about a vibration…

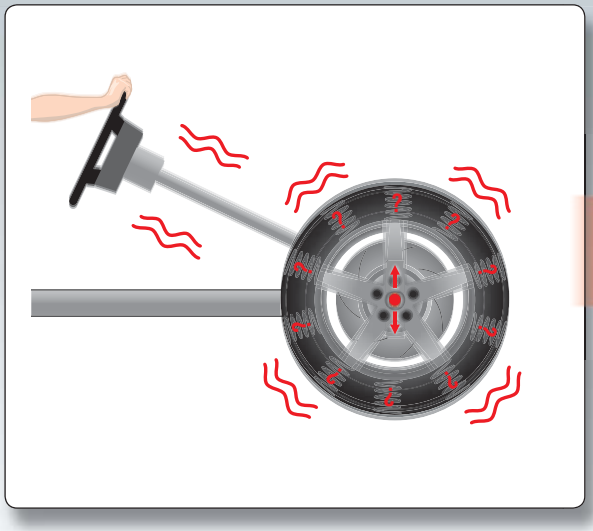
Vibration problems are common and service bulletins recommend the Road Force Touch to solve them.

A simulated road test pinpoints the problem

The Road Force Touch balancer identifies the tire and rim contributions to radial-force vibration problems

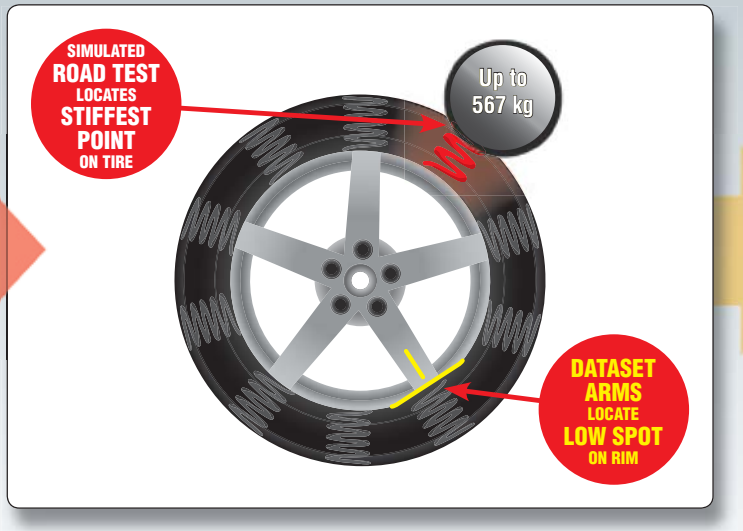
How It Works

An unknown force vibrates the spindle



Vibration is transferred from the wheel, through the spindle to the customer

Specialized sensors detect the vibration



The Road Force Touch balancer detects radial forces with sensitive instruments

tion problems

Hold the tire and rotate the rim

Match-mounting the stiffest point on a tire to the low spot on a rim makes the assembly roll as round as possible

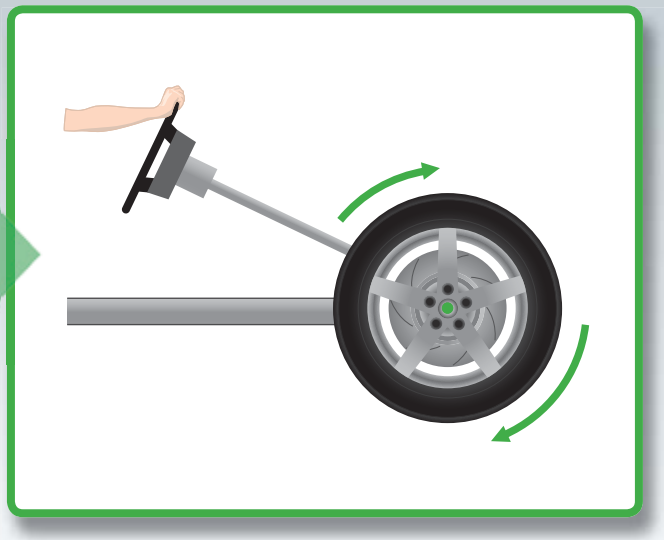
Your customer leaves with a “new car ride”!

✓ Your customer experiences a smooth ride on the same tires and wheels

Match-mounting cancels the vibration

The Road Force Touch balancer duplicates tire and rim matching methods used by original equipment manufacturers

Your customer leaves with a “new car ride”!



✓ Radial force variation is minimized, ensuring your customer a smooth ride

PATENTED

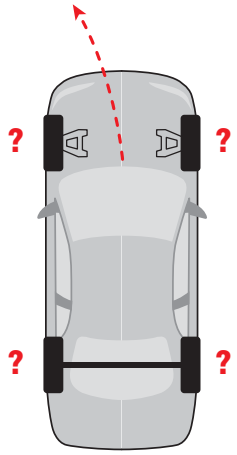
StraightTrak® corrects tire pull

NEW! Now perform individual tire pull measurements*

Tires Just Rotated?

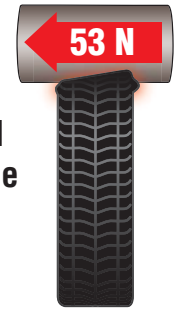
Customer complains about vehicle pulling to the left.

Mysterious Left Pull

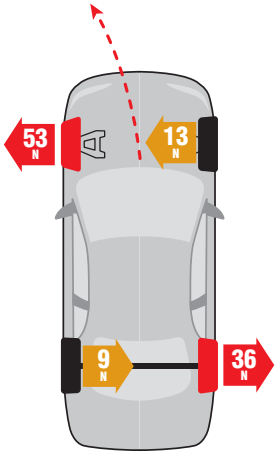


Measure Lateral Force to Identify Pull

Tire conicity can <u>ONLY</u> be measured accurately when the tire is under load.



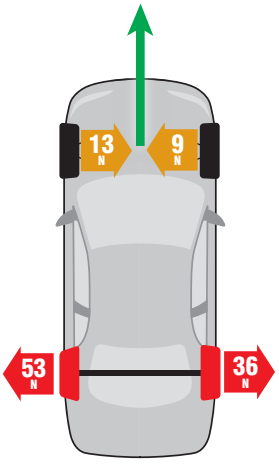
Pull Identified



StraightTrak Delivers the Ultimate in Customer Satisfaction

Hunter suggests optimal wheel placement just like original equipment manufacturers.

Pull Eliminated

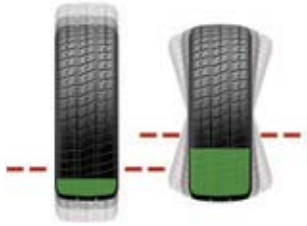


** Patent pending*

Revolutionary SmartWeight® by the numbers

PATENTED

SmartWeight
Balancing Technology



- ✓ Minimizes weight usage
- ✓ Maximizes productivity
- ✓ Reduces comebacks

*Modern vehicles are **4x** more sensitive to static vibration forces than couple or dynamic forces.*

4

*SmartWeight saves **25 labor hours** per year with efficient weight applications.**

25

What this means for you at 10 vehicles per day...

*Avoid an average of **66 "comebacks"** per year by using SmartWeight.***

66

An average shop saves **202 kg** per year with SmartWeight.*

202

Watch Your Savings Grow!

- ✓ See weight and labor savings based on **your** shop's numbers

* Timesavings are calculated from comparing single- and no-weight applications when using SmartWeight versus the typical two-weight application of standard balancers.

** "Comeback" avoidance is calculated based on residual static imbalance left by standard balancers versus SmartWeight balancers.

***Calculations based on 10 vehicles per day in a standard working year. Performance differences are those of a SmartWeight-equipped balancer vs. a traditional wheel balancer.

Additional features make balancing faster and easier

Live 3D Graphics

Interactive display intuitively guides technicians through balancing procedures.

Bottom-Dead-Center Laser / Wheel Light

Automatically locates bottom-dead-center for adhesive weight application. Light helps aid installation.

Most durable shaft in the industry

Consists of a superior alloy to resist wear and sustain long-lasting service.

Integrated Inflation Station

Provide proper inflation pressure with convenient automatic controls.

Servo Stop drive control

Automatically rotates and holds wheel at top-dead-center or bottom-dead-center weight locations.

TranzSaver™*

Compares tire circumferences as specified by original equipment manufacturers to prevent damage to All Wheel Drive (AWD) vehicles.

** Patent pending*

PATENTED

CenteringCheck®

Balancer will tell you if the wheel is properly centered before you proceed with the work.

PATENTED

Quick Cal-Check

Quickly verify balancer calibration in seconds without the use of a reference wheel.

PATENTED

Automatic Mode Detection

Eliminate the need to select the balance mode and reduce service time and possible mode entry errors.

PATENTED

SmartSpoke®

Locates optimal adhesive weight location behind one wheel spoke instead of multiple weights and spokes.

EXCLUSIVE

On-screen instruction makes everyone an expert!

High-definition videos instruct on a variety of balancing and tire changing topics.

- ✓ Covers basic techniques to more advanced procedures
- ✓ Instant access, easy navigation
- ✓ On-site training for your technicians

NEW!

Technicians are guided with helpful tips and timesaving procedures.

Popular equipment upgrades

Integrated wheel lift

- ✓ Safely service heavy, oversized wheels
- ✓ Precisely center all wheels

AutoClamp

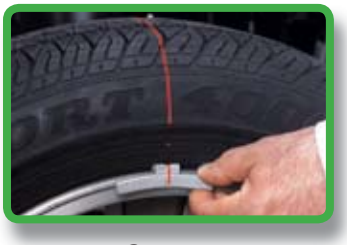
- ✓ Clamp wheels automatically
- ✓ Save time and effort
- ✓ Eliminate wing nut

PATENTED

HammerHead® Top-Dead-Center (TDC) laser

- ✓ Greater weight placement accuracy to avoid mistakes
- ✓ More single-spin balances improve productivity
- ✓ Overhead fluorescent light illuminates work area

Incorrect



Correct

Printer kit with storage shelf

- ✓ Print Road Force Measurement® test results
- ✓ Win more approvals with clear and informative printouts

On-screen entry of customer and vehicle information included in printout summary.

Wheel clamping options

The Road Force Touch balancer is offered with one of the following factory-installed wheel clamping options. See the model configuration chart below for ordering information.

Pneumatic AutoClamp

Quick-Thread wing nut

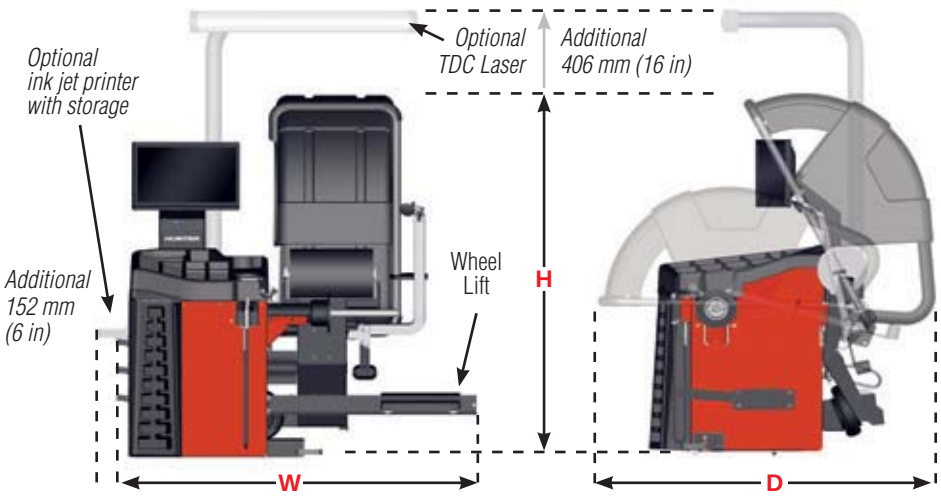
Standard wing nut

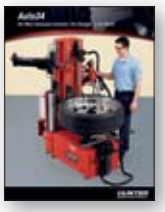
Models

	RFT50E	RFT40E	RFT30E	RFT20E	RFT10E	RFT00E
Pneumatic AutoClamp			✓	✓		
Quick-Thread Wing nut	✓	✓				
Standard Wing nut					✓	✓
Wheel Lift System	✓		✓		✓	
Width (W)	1676 mm 66 in	1435 mm 1829 in	1676 mm 66 in	1435 mm 56.5 in	1676 mm 66 in	1435 mm 56.5 in
Height (H)	1854 mm 73 in	1854 mm 73 in	1854 mm 73 in	1854 mm 73 in	1854 mm 73 in	1854 mm 73 in
Depth (D)	1575 mm 62 in	1575 mm 62 in	1575 mm 62 in	1575 mm 62 in	1575 mm 62 in	1575 mm 62 in
Weight	344 kg 759 lb	272 kg 600 lb	346 kg 762 lb	288 kg 636 lb	342 kg 755 lb	270 kg 596 lb

Hunter offers hundreds of accessories to customize your balancer to your service needs.

See Form 3203-T for more information.





Be sure to check out other Hunter literature for more quality products from Hunter Engineering.

Specifications

RFT00E shown with options

Power Requirements	196-253V, 10 amp, 50/60 Hz, 1 ph
Air Supply Requirements	7-12 bar (100-175 psi)
Roller Force	Variable up to 567 kg (1,250 lbs)
Capacity	
Rim Width	38 mm to 521 mm (1.5 in to 20.5 in)
Rim Diameter	254 mm to 762 mm (10 in to 30 in)*
ALU	356 mm to 1118 mm (14 in to 44 in)*
Max. Tire Diameter	1016 mm (40 in)
Max. Tire Width	508 mm (20 in)
Max. Tire Weight	79 kg (175 lbs)
Radial and Lateral Runout Accuracy	0.051 mm (0.002 in)
Imbalance Resolution	± 0.28 g (0.01 oz)
Placement Accuracy	512 positions, ± 0.35°
Balancing Speed	290-300 rpm
Motor	Programmable drive system and DC motor

** Extreme wheel sizes may require manual data entry.*

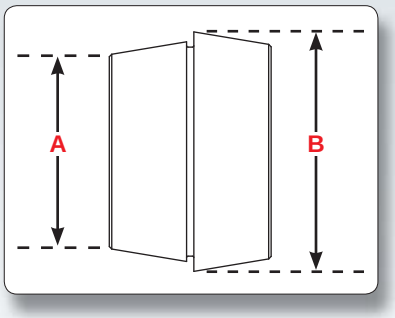
Standard accessories

A	106-82-2	Scratch guard sleeve
B	175-353-1	Polymer cup
C	46-653-2	Performance wheel and light truck spacer
D	221-658-2	Nylon hammer heads (4)
E	46-320-2	Spacer
F	221-589-2	Weight hammer/pliers
G	223-68-1	Pressure ring
H	20-1650-1	Rim tags
I	221-659-2	Adhesive weight scraper
J	65-72-2	Calibration weight

BullsEye™ centering system

NEW!

Direct-Fit Collet Part Number	Range A	Range B
192-213-1	53.34 – 68.58 mm (2.10 – 2.7 in)	56.13 – 62.74 mm (2.21 – 2.47 in)
192-214-1	61.47 – 66.80 mm (2.42 – 2.63 in)	65.53 – 70.87 mm (2.58 –2.79 in)
192-215-1	69.60 – 74.93 mm (2.74 – 2.95 in)	73.41 – 78.99 mm (2.89 – 3.11 in)
192-216-1	77.47 – 83.06 mm (3.05 – 3.27 in)	81.53 – 86.87 mm (3.21 – 3.42 in)
192-217-1	85.60 – 90.93 mm (3.37 – 3.58 in)	89.66 – 95.00 mm (3.53 – 3.74 in)
192-218-1	93.73 – 99.06 mm (3.69 – 3.90 in)	97.79 – 103.12 mm (3.85 – 4.06 in)
192-219-1	101.85 – 107.19 mm (4.01 – 4.22 in)	105.92 – 111.25 mm (4.17 – 4.38 in)
192-220-1	109.73 – 115.32 mm (4.32 – 4.54 in)	113.79 – 119.38 mm (4.48 – 4.70 in)
192-221-1	117.86 – 123.19 mm (4.64 – 4.85 in)	121.92 – 127.25 mm (4.80 – 5.01 in)
192-222-1	125.98 – 131.32 mm (4.96 – 5.17 in)	130.05 – 135.38 mm (5.12 – 5.33 in)



Because of continuing technological advancements, specifications, models and options are subject to change without notice.

HUNTER Engineering Company
www.hunter.com
11250 Hunter Drive, Bridgeton, MO 63044 USA
Tel: +1 314-731-3020 Fax: +1 314-731-0132
Email: international@hunter.com

0512EH

Form 4159-TE-05, 05/12
Supersedes 4159-TE-05, 03/11