



## **BRAKE PAD ABUTMENT CLIPS**

THE SMOOTHEST, QUIETEST INNOVATION IN BRAKE HARDWARE

# IN A CLASS OF ITS OWN

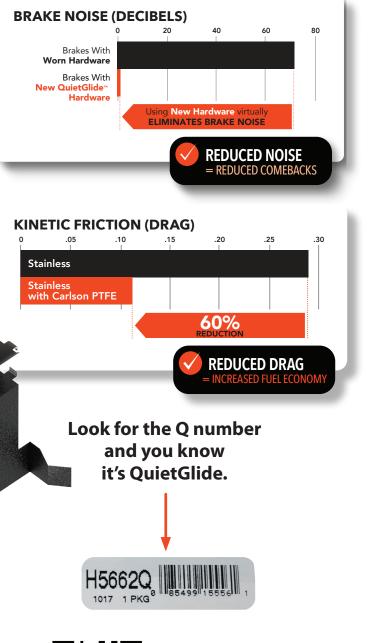
Brake Clips with drag and noise reduction technology\*

Low-friction PTFE coating to reduce drag

> Vulcanized rubber to reduce noise

### WE'VE DONE OUR HOMEWORK

IND SIN FIRSTRY





carlsonmakesiteasy.com

\*Includes the bushings.



## THE NEW TEST DATA IS HERE!

New pads New hardware

New pads New hardware

Eliminated

all noise

New pads

New pads

Old hardware

Old hardware

### Noise Test - Car

Findings (Noise Test-Car First Brake Job – 45,000 miles) Replacing brake hardware during this lab-tested brake job eliminated all noise.

### Noise Test - Truck

Findings (Noise Test-Truck First Brake Job – 35,000 miles) Replacing brake hardware during this lab-tested brake job reduced noise by 47%.

### Test Data - Durability & Wear

Vehicles tested:

- 2014 Sierra, 35,000 miles first brake job
- 2014 Chevy Tahoe, 35,000 miles first brake job
- 2014 Buick Regal, 45,000 miles first brake job
- Independent 3rd-party automotive lab, Sweden

OEM Test Data - Durability & Wear – Old Hardware:

"The majority of dimensions are no longer within specification and therefore the part will not perform to design intent. If the old hardware is used you will get premature wear and reduced pad life." - Test Lab Managing Director

None of the hardware parts were in line with original OEM dimensions. Every hardware part tested failed and should not be reused.



- Dimensions and tolerances from OEM part
- Measurements of 17 dimensions of standard K2XX brake clip hardware
- Any measurement out of OEM tolerance will diminish performance

|        |        |        |        |        |               | $\frown$ |   |
|--------|--------|--------|--------|--------|---------------|----------|---|
| Part 1 | Part 2 | Part 3 | Part 4 | Part 5 | Part 6        | Status   |   |
| 80.04  | 79.99  | 79.95  | 79.97  | 79.96  | 80.00         | FAIL     |   |
| 1.37   | 1.43   | 1.48   | 1.44   | 1.33   | 1.35          | FAIL     |   |
| 1.38   | 1.44   | 1.51   | 1.35   | 1.39   | 1.43          | FAIL     |   |
| 33.42  | 33.48  | 33.36  | 33.38  | 33.39  | 33.39         | FAIL     |   |
| 37.92  | 38.21  | 37.66  | 37.93  | 37.77  | 37.85         | FAIL     | L |
| 61.36  | 61.03  | 56.72  | 56.59  | 55.13  | 58.53         | FAIL     | L |
| 1.62   | 1.63   | 1.73   | 1.55   | 1.78   | 1.51          | FAIL     |   |
| 28.93  | 28.84  | 29.04  | 28.37  | 28.95  | 28.88         | FAIL     |   |
| 28.91  | 28.91  | 28.87  | 28.87  | 29.00  | <b>29.0</b> 6 | FAIL     |   |
| 21.73  | 21.72  | 21.64  | 21.87  | 21.79  | 21.37         | FAIL     |   |
| _      |        |        |        |        |               |          |   |

"Out of spec hardware will diminish braking performance. It will impact the distance and the time it takes you to stop."- John Bennett Test Lab Managing Director

To learn more www.carlsonmakesiteasy.com

