



THE
MOST RELIABLE
LINE-UP OF

ROTORS

AVAILABLE TODAY

Your Dedicated Partner in the Brake Business

Since 1925, NAPA has supplied technicians with reliable replacement parts to get the job done right. However, we know that without award-winning support, those state-of-the-art products are only “part” of the solution.

Satisfied Customers

There’s nothing like maintaining a long history of repeat customers or having new business generated by a word-of-mouth recommendation. This means your customers trust you to get the job done right.

As a NAPA Brakes customer, you can trust that we’ll always provide the training and support you need to deliver the kind of service your customers can count on.

The Perfect Brake Job®

Determined to establish a reliable inspection process that technicians could consistently refer to, NAPA Brakes created The Perfect Brake Job®. The Perfect Brake Job checklist has become an industry standard for technicians eager to offer exceptional service. For easy reference, the steps to perform The Perfect Brake Job can be found on pages 10, 11, 12 and 13. For more information visit theperfectbrakejob.com.



The Perfect Brake Job® Checklist
Part No. NB402M

24" x 36" wall poster with step-by-step instructions on how to restore the vehicle to its original braking performance.

Programs and Promotions

NAPA Brakes provides outstanding product support to promote repair facilities as an official home of The Perfect Brake Job. The Ron Capps Signature Series steel cabinet (complete with FREE NAPA product) and the NAPA Brakes Hub Correction Plate Kit are just two examples of the product support available from NAPA Brakes. To find out more visit NAPAbreaks.com.

Training and Support

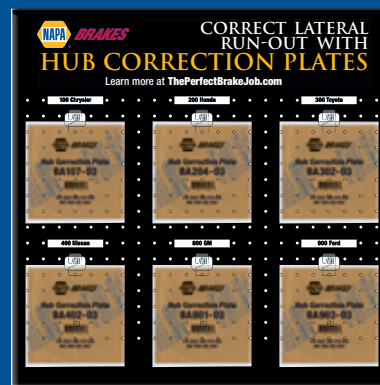
Whether you’re a technician or a counterperson, NAPA Brakes provides elite training designed to enhance your knowledge in the brake repair industry. Go to NAPAbreaks.com or theperfectbrakejob.com to find out more.



**NAPA Brakes
NEW Ron Capps
Signature Series Cabinet**

Part No. NBSS12

All steel welded cabinet measures 3'2" H x 2'8" W x 1'3" D and features three adjustable shelves with locking doors. Cabinet base sold separately. Part No. VM-52.



NAPA Brakes Hub Correction Plate Kit
Part No. HCPK

All steel board measures 24" H x 24" W x .5" D and includes hooks and a selection of the most popular plate applications.

INGENUITY
IN EVERY
ROTOR.

NAPA Brakes' continually expanding rotor program gives customers access to the Aftermarket's most reliable and comprehensive line-up of rotors. These three diverse lines from NAPA Brakes are guaranteed to deliver the best disc brake rotors for every installation.

A Complete Range of Stopping Power



Reactive One®

We've again rewritten the definition of Aftermarket excellence by pairing carefully crafted aesthetics with unparalleled performance. Created from high-carbon damped iron to keep brakes cool, quiet and vibration free, NAPA Brakes Reactive One rotors work to offer drivers the most responsive brake pedal they'll ever feel, with the added benefit of extended pad life.

Ultra Premium®

To address brake noise and reduce vibration, many NAPA Brakes Ultra Premium rotors are cast from damped iron and all match Original Equipment (OE) design to deliver industry-leading stopping power, cooling properties and noise control. QC100 Venting optimizes rotor cooling and Level EQ Sound Reducing Technology disrupts vibration and suppresses noise.

Premium®

While some manufacturers stop after the machining process, NAPA Brakes goes a step further and performs a non-directional finish on every Premium rotor. This finish, along with OE vane configuration ensures every Premium rotor will match OE in heat dissipation, stopping distance and noise reduction.

NAPA ROTORS



National Trade Advertising Support

RESPONSE.
LONGEVITY.
STYLE.

It's Time to Experience the 3-in-1 Advantage.

When does a rotor become more than just a standard brake part? Right around the time it's engineered to offer increased pad life, enhanced pedal feel and industry-leading aesthetics.

Providing vehicles with powerful performance and proven design, the Reactive One rotor is cast from high-carbon damped iron – a metallurgically superior alloy that increases heat dissipation to keep brakes running cool, quiet and vibration free.

The search for a sleek stylish rotor able to outperform the competition is over.

REACTIVE ONE



1 Cool Track™ Vents

After careful research and testing, our engineers discovered a way to improve on the drilled and slotted technology featured on many of today's performance rotors. The Cool Track Vents, exclusive on Reactive One rotors, reduce brake fade while allowing the continual escape of the harmful heat and gasses that can degrade a brake system. **Tests have proven the increased airflow generated by the Cool Track Vents can increase brake pad life up to an incredible 30%.**



➔ 30% Increased Pad Life

2 Polymer Coating

Protecting against edge lift, one of the leading causes of premature brake failure, this special formula covers the entire surface of the rotor outside the pad swept area. The durable coating is subjected to a salt spray test per ASTM-B117 regulations to prove its effectiveness in keeping edges and vanes rust free for a clean, open wheel appearance.

3 ONYX Guard Corrosion Protectant

A rotor covered in rust isn't very stylish. The hat on every Reactive One rotor is subjected to the same salt spray test as the Polymer Coating to prevent unsightly rust and corrosion. The salt spray test is the exact same test that's used by Original Equipment manufacturers to guarantee endurance under the harshest conditions. The simulation is equal to roughly 18 winter months in Southern Michigan.



Reactive One Performance Rotor Coverage

NAPA Brakes' Reactive One performance rotors are specially designed to handle everything from work trucks to family vehicles with towing capabilities to muscle cars. For extra stopping power, NAPA Brakes Reactive One has you covered.

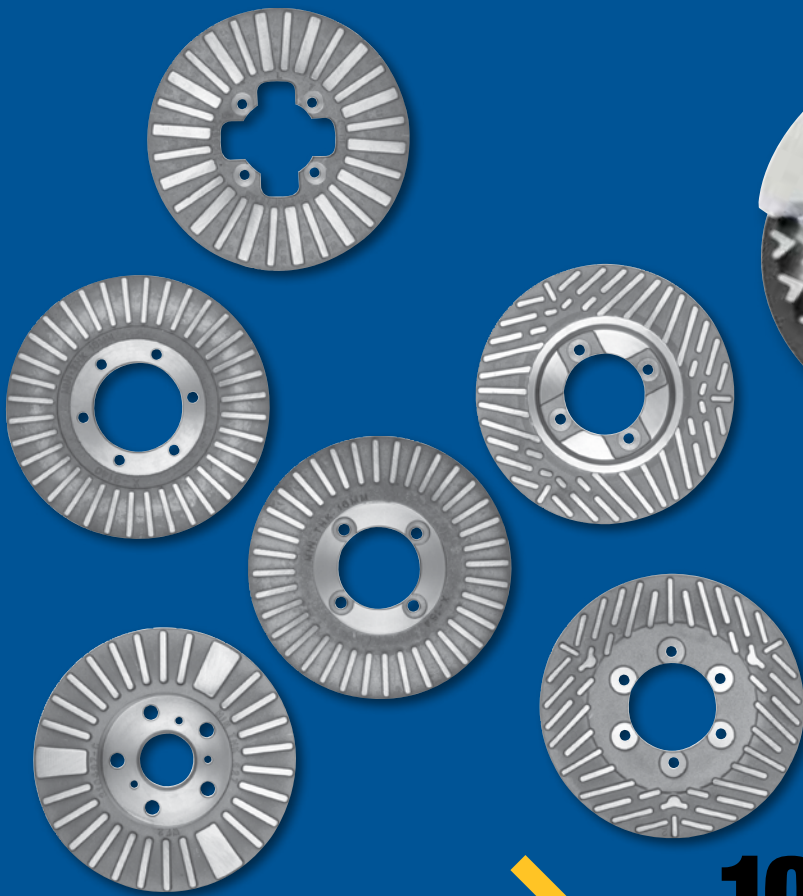


GUARANTEED QUIET.
CERTIFIED SAFE.

Extraordinary Performance, Dependable Stopping Power.

NAPA Brakes offers many damped iron Ultra Premium rotors as a solution for high noise applications. Engineered to enforce the tightest lateral run-out tolerances possible (0.002"), NAPA Brakes Ultra Premium rotors deliver the OE-quality noise control, cooling properties and stopping power that today's vehicles demand.

ULTRA
PREMIUM



QC100 Venting

QC100 Venting keeps each NAPA Brakes Ultra Premium rotor as cool as the original it's replacing. We start by matching the cooling vane configuration of the original rotor and then duplicate the design for a 100% match. While the primary purpose of cooling vanes is to manage temperature, QC100 Venting also reduces noise through specific vane placements and shapes designed to disrupt noise and limit vibration.

100% Match to OE Cooling Vane Design

Large carbon flakes absorb more NOISE.



ULTRA PREMIUM LEVEL EQ™ DAMPED IRON

TRADITIONAL G3000 CAST IRON

Noise Reducing Metallurgy

Many NAPA Brakes Ultra Premium rotors are cast from damped iron – an alloy that is metallurgically formulated to retain longer, thicker flakes of carbon that help disrupt vibration and suppress noise. In simpler terms, Level EQ Sound Reducing Technology helps maintain an equivalent, continuous sound level when brakes are applied. **A perfect solution for many high noise applications.**



ONYX Guard Corrosion Protectant

Applied to both the hat and edges, ONYX Guard corrosion protectant is subjected to a salt spray test per ASTM-B117 to prevent unsightly rust and corrosion. This is the same salt spray test that Original Equipment manufacturers use and equates to roughly 18 Southern Michigan winter months.

Ultra Premium Rotor Coverage

More than 1,000 UP part numbers are cataloged for passenger cars and trucks built mostly in the past 15 years. Ultra Premium rotor availability covers a broad range of vehicles from Lexus to Mercedes, Jeep to GMC trucks, Honda to Hyundai and everything in-between.





OE MATCHED.
MACHINED TO
PERFECTION.

Ready To Install Right Out of the Box.

NAPA Brakes Ultra Premium rotors are machined to be installation ready, right out of the box, with no turning required. Simply wash with soap and water to remove the protective coating and they're ready to install. NAPA Brakes Ultra Premium rotors match OE for balance, surface finish and parallelism.



Balance

Out of balance rotors can lead to reduced performance, higher noise levels and overall poor quality. OE manufacturers use a **mill-balancing technique** to minimize vibration. NAPA Brakes Ultra Premium rotors employ this technique to ensure our rotors stay in balance and perform just like the original.

Surface Finish

Improper rotor finish is one of the biggest contributors to brake noise. To eliminate noise, NAPA Brakes Ultra Premium rotors are machined to a precise rotor finish that meets OE standards.

Parallelism

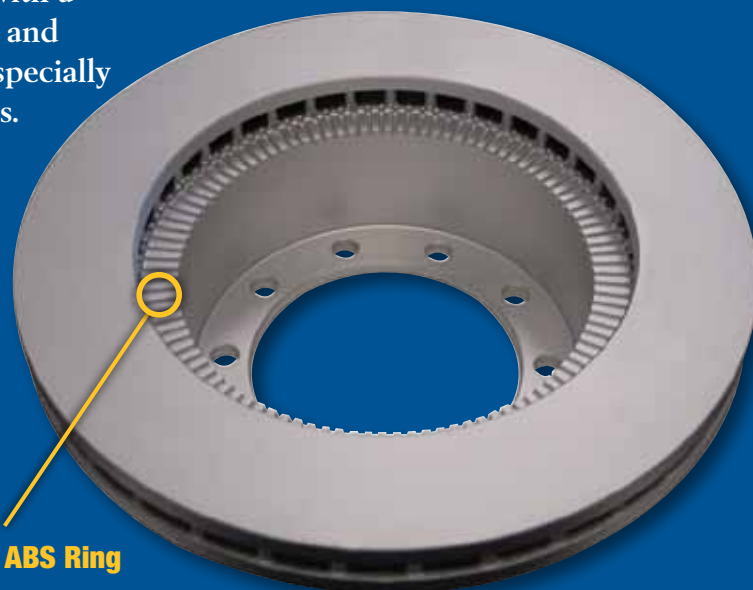
Parallelism is a variance in the thickness of the rotor. The pads must track an absolute parallel path or pulsation will occur. A thickness variation of as little as 0.005" can result in pedal pulsation or brake noise. Our manufacturing processes ensure thorough and precise measurements throughout the entire rotor.

ULTRA
PREMIUM

Ultra Premium Medium Duty Rotors

NAPA Brakes Ultra Premium medium duty rotors designed with a cast-in ABS ring are treated with a special polymer coating designed to stop rust and corrosion before it starts. This protection is especially crucial for fleets operating in extreme climates.

Tested to withstand 400 hours of salt-spray exposure, rotor edges and vanes stay cleaner longer, optimizing air flow and product performance.



Cast-in ABS Ring

Ultra Premium Medium Duty Rotor Coverage

Complete coverage for everything from delivery vehicles and work trucks, to fleet vehicles such as Dodge Sprinter vans, the all new Ford Transit Connect, as well as school bus applications.

Ultra Premium Drilled Rotors

Designed for select applications and created utilizing Ultra Premium standards, NAPA Brakes drilled rotors match OE design to provide customers with a line intended to offer exceptional fit, form and function.



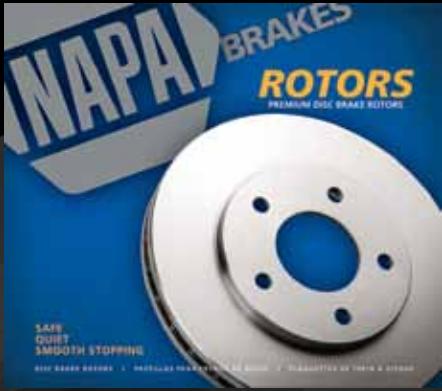
**When it's Drilled OE,
it's Drilled UP.**



Ultra Premium Drilled Rotor Coverage

Specialty and high performance applications such as Corvette, Mustang, Audi, Mitsubishi and Porsche.





THE BEST COVERAGE
IN THE INDUSTRY.

Manufactured for All Makes and Models.

The NAPA Brakes line of Premium rotors serve a wide range of value-conscious consumers and offers expansive, first-to-market coverage. Our Premium line helps drivers maintain a safe, reliable brake system with a rotor that remains consistent with OE in:

- Heat Dissipation
- Stopping Distance
- Brake Fade
- Rotor and Friction Wear
- Reduced Noise

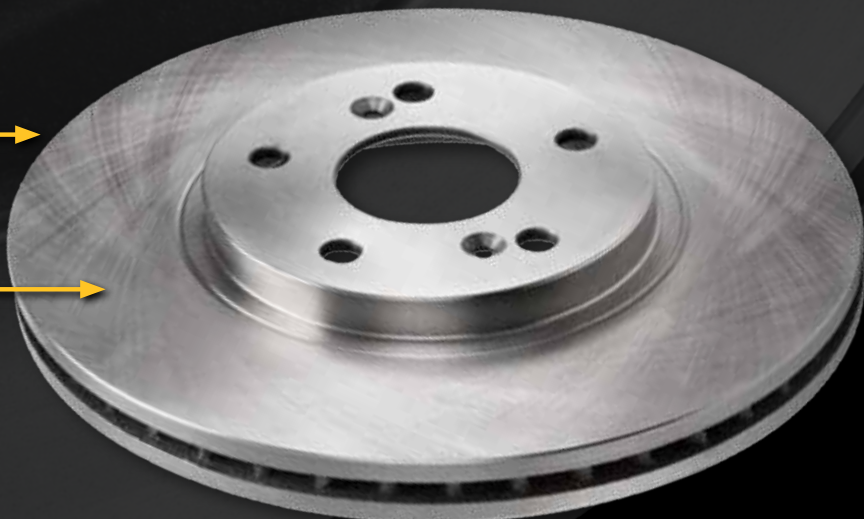
NAPA Brakes Premium rotors are machined to some of the tightest tolerances in the industry and employ G3000, which is the SAE standard for cast iron rotors today. Our foundries consistently monitor the process to ensure that the G3000 material properties are achieved. This allows the product to perform at optimum levels throughout its life cycle. From the moment the NAPA Premium rotor is installed on a vehicle it will perform as designed and meet all of the customers expectations for a premium product offering.

CNC (Computer Numerically Controlled) Mill Balanced

For optimum weight distribution and consistent performance.

Non-Directional Finish

Following the machining process, NAPA Brakes adds a non-directional finish to remove peaks and directional lines.



PREMIUM

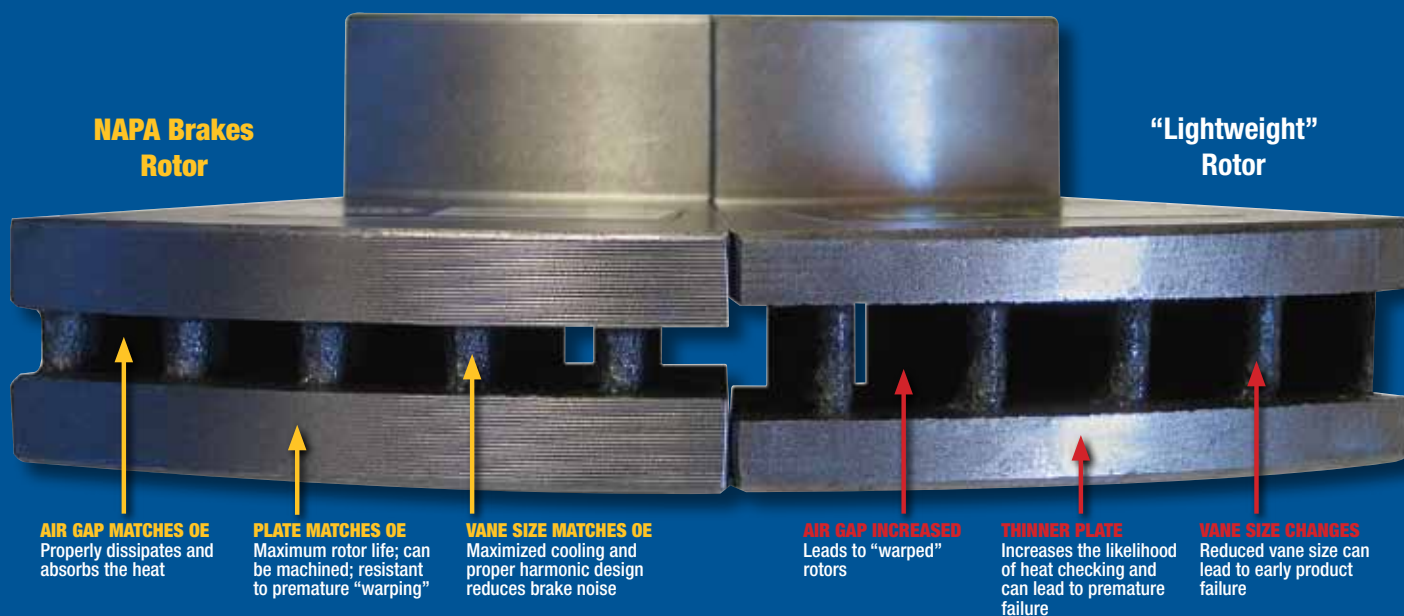
It's not always about state-of-the-art technology and industry-leading features. Sometimes it's about a hard working, dependable product that's going to get the job done – that's the NAPA Brakes Premium rotor line.



Quality Minded, Without Compromise.

Competitive rotors manufactured with less material than OE specs, with reduced plate thickness and expanded air gap, have a negative effect on the performance of the rotor.

Lightweight rotor designs can increase the potential for warping, heat checking and rotor failure. As these cheaper, lightweight rotors continue to enter the marketplace, NAPA Brakes remains steadfast, as they have from the beginning, with efforts to create the safest, most reliable, OE-matching brake rotors possible.



Premium Rotor Coverage

NAPA Brakes has an extensive line of Premium rotors for passenger cars and light trucks. From your dad's vintage Oldsmobile to the family's Toyota Prius, Premium rotors are available in more than 1,420 part numbers.

How to Perform

THE PERFECT BRAKE JOB[®]

BEFORE YOU START

Full Inspection

-  Test drive vehicle to confirm owner's comments
-  Inspect tire condition
-  Check suspension
 - Tie Rods
 - Ball Joints
 - Shocks
 - CV Axles
 - Bushings
-  Check for end play
-  Inspect master cylinder, booster, ABS unit and other valves
-  Pull all four wheels
 - Mark rotor and drum to stud

Disc Brake Inspection

-  Inspect floating caliper
 - Free movement
 - Piston pullback
-  Inspect rotor
 - Grooves
 - Discoloration
 - Proper thickness
-  Inspect caliper body condition and bracket/strut for damage or wear
-  Inspect hardware and rubber components
-  Inspect brake hoses
-  Inspect pads
 - Taper or uneven wear
 - Delamination
 - Shape of shim
-  Check run-out

Drum Brake Inspection

- 14**  Remove drums
- 15**  Inspect drum
- Grooves
 - Discoloration
 - Wear
 - Maximum diameter
- 16**  Inspect wheel cylinders for leaks
- 17**  Inspect hardware
- Springs and pins
 - Return and hold down items
 - Parking brake levers
 - Back plates
- 18**  Inspect shoes
- Wear pattern
 - Cracking
- 19**  Write estimate based on MAP guidelines and inspection

Rotor Lateral Run-out Specifications





The service limit of disc brake run-out for most vehicles is 0.05 mm (0.002 in). However, we are beginning to see a trend with newer applications requiring more stringent tolerances, e.g., 0.035 mm (.0014) for the 2010 Infiniti G37 Sedan or 0.04 mm (.0016) for the 2010 Honda Accord Crosstour EX. To stay within the manufacturer's specs it is imperative that you use a dial indicator to check for lateral run-out.

Before completing brake service, make sure run-out meets the manufacturer's specs. If run-out is greater than the manufacturer's specs, follow the procedures to correct lateral run-out. **See step 27 for more information.**

NAPA Know How Tech Tip

STARTING THE JOB

Disc Brakes

- 20**  Drain and refill fluid in master cylinder
- 21**  Clamp off brake hose with proper line locks
- 22**  Remove caliper body and support using wire or other means
- 23**  Remove rotor
- 24**  Clean hubs
- 25**  If machining, sand with 120 grit paper for one minute per side
- 26**  Wash rotor with soap and water if new or turned

Machined particles left on the rotor can add to stacked tolerance variation. Whether new or turned, thoroughly wash the rotor surface with soap and water to eliminate the chance of pedal pulsation.

NAPA Know How Tech Tip

27



Install rotor and check lateral run-out on vehicle with lugs torqued to specs

28



Clean and lubricate caliper bracket and slides

- Recommend installing remanufactured caliper

29



Lubricate pads at all metal-to-metal contact points to include shim on backing plate

30



Install new brake pads and new hardware

- Adaptive One®
- Ultra Premium®
- Safety-Stop®
- TruStop®

31



Install caliper

32



Remove hose clamp

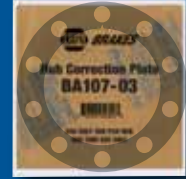
33



Flush and bleed brake system

The Importance of Checking for Lateral Run-out

Lateral run-out directly impacts pedal pulsation, brake noise, brake life and customer safety. If lateral run-out is detected, first try to index the rotor to the hub by removing the rotor and rotating it 180°. As an option to expensive replacement of the entire hub assembly, you can correct lateral run-out between .002" and .007" using NAPA Brakes hub correction plates. However, if the lateral run-out is greater than .007", you must first determine whether the rotor or the hub assembly is to blame before making the proper repair. Reference Bulletin No. 01-05-23-001B - 2008 Buick LaCrosse V6-3.6L or the hub correction video for more information. Both can be found at NAPAbreaks.com under the Training tab.



If you do need to machine the rotor, it can be done on the vehicle with an on-car brake lathe; perfect for vehicles with captured rotor assemblies. A high-quality on-car lathe can machine a rotor to match the axle flange to less than .001" run-out specification; eliminating reoccurring brake pedal pulsation.

NAPA Know How Tech Tip

The Importance of Installing New Brake Hardware

Even if old brake hardware appears to be OK, don't be fooled – if brake pads or shoes are worn out, brake hardware is too. The fact is, constant tension, heat, friction and mechanical stress – the same things that causes brake pads and shoes to wear out – will eventually cause brake hardware to fail.

Four Good Reasons to Install New Brake Hardware

1. Heat Damage

Heat damaged hardware can cause noise and excessive lining wear.

2. Premature Wear

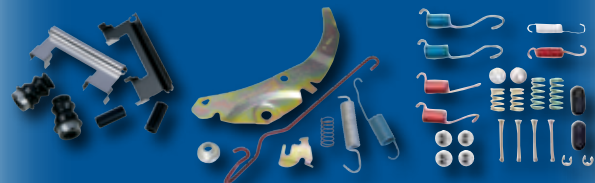
Fatigued hardware can cause improper return, which causes premature brake wear.

3. Reduced Gas Mileage

Weak, bent or heat-distorted hardware can cause drag, which reduces gas mileage.

4. Risk of Brake Failure

Old hardware can fail during unexpected/emergency stopping.



Whether your vehicle is equipped with 4-wheel disc brakes or disc and drum brakes, old hardware could prevent them from safely and effectively stopping your vehicle. NAPA Brakes hardware is manufactured to meet the toughest specifications of vehicle manufacturers. For reliable operation and maximum safety, every brake job should include new brake hardware.

NAPA Know How Tech Tip

Drum Brakes

34  Wash brake assembly with proper equipment

35  Disassemble brake system

36  Lubricate backing plate at shoe rest

37  Install brake shoes and new hardware


38  Wash drums with soap and water if new or turned

39  Flush and bleed brake system

40  Install drum and adjust shoe-to-drum clearance if applicable

FINALIZE

The Perfect Brake Job®

41  Check pedal height

42  Install wheels and torque to specifications

43  Top off master cylinder

44  Test drive vehicle and bed in brakes, to ensure customer satisfaction

In order to perform the most thorough brake job possible and to ensure every brake job customer will remain safe, assured and completely satisfied, follow the step-by-step instructions outlined in **The Perfect Brake Job®**.

Visit NAPAbreakes.com for additional product information. Visit thepperfectbrakejob.com for questions regarding brake repair procedures or click on the code below to link automatically with your smart phone.



ROTOR Program

BETTER



Premium®
Reliable performance with coverage from vintage to hybrid.

Maintain OE Quality
 – Air gap and plate thickness match OE to properly dissipate heat to prevent warping and maximize rotor life.

Superior Strength
 – G3000 cast iron provides strength and assures dependable braking.

BEST



Ultra Premium®
Guaranteed Quiet.

Reduce Brake Noise – Level EQ Sound Reducing Technology uses damped iron metallurgy to eliminate vibration and quiet brake system noise.

Optimum Cooling – QC100 Venting allows for maximum cooling by matching the OE vane configuration design.

Corrosion Resistant – ONYX Guard corrosion protectant is applied to both rotor hat and edges to protect the rotor from the effects of severe weather and corrosion.

Perfect Finish – An improper finish can cause brake noise. Mill balanced edges and OE matched CNC machined finish provides smooth and even braking.

SPECIALTY



Reactive One®
Longevity. Response. Style.
The only rotor offering a 3-in-1 Advantage.

Longer Lasting Brakes – Cool Track™ Vents can increase pad life up to 30% by allowing heat and gas to continually escape the brake system.

Response & Style – Polymer coating keeps edges and vanes free of rust for cleaner wheels and optimal air flow.

Improved Pedal Response – High-carbon damped iron combined with Cool Track™ Vents keeps the rotor vibration free giving drivers the most responsive brake pedal they'll ever push.

Late Model Coverage – Coverage for trucks, SUVs, fleets and performance vehicles.

	Premium	Ultra Premium	Ultra Premium Medium Duty	Reactive One
Non-directional finish	✓			
OE-matched CNC finish		✓	✓	✓
Mill-balanced edges	✓	✓	✓	✓
QC100 Venting	✓	✓	✓	✓
Level EQ Sound Reducing Technology		✓	✓	✓
ONYX Guard corrosion protectant		✓		✓
Polymer coating			✓	✓
Cool Track™ vents				✓
Lateral run-out	.004" max	.002" max	.002" max	.002" max
Coverage	Expansive coverage.	Vehicles 15 years and younger. Mid to high MSRP.	Delivery and work truck fleets, Transit Connect, and school bus.	Trucks, SUVs, fleets and performance vehicles.
Target	Value conscious, older vehicles.	High noise applications. Late model, higher MSRP.	Fleet managers.	Value visual appearance and improved brake performance beyond Ultra Premium.
SKUs	1,420+	1,000+	162	100+
Warranty	12-month/12,000 mile	Limited Lifetime	Limited Lifetime	Limited Lifetime

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Visit NAPAbreaks.com for more information.