FL5-3-421 Civic Type R and Integra Type S Rear Rotor Upgrade kit

Upgraded rear rotors for the 2016+ Civic Type R and 2024+ Integra Type S

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INTRODUCTION

In this installation guide we have provided step by step instructions to remove the OEM rear brake rotors and install the 27WON Performance brake rotors.

Advisory:

- Working under the vehicle requires a safe and sturdy location for the vehicle to sit on jackstands.
- The brake rotors can be hot after recent vehicle operation. Allow the vehicle to cool or use a fan to cool the brake rotors before working on the vehicle.

TOOLS:

- Hydraulic Jack (1)
- Jack Stand (2)
- 1/2" Torque Wrench (1)
- 1/2" Breaker Bar (1)
- Lug Nut Socket (1)
- 3/8" Ratchet (1)
- 9mm Socket (1)
- 17mm socket (1)
- 5mm Allen Key Socket (1)
- 7mm Allen Key Socket (1)
- 10mm Allen Key Socket (1)
- Phillips Screwdriver - #3 (1)
- Flat Head Screwdriver - Large (1)
- Brake Clean Spray (1)
- WD-40 Lubricant Spray (1)
- Bungee Cord (1)
- C-Clamp (1)
- Needle Nose Pliers (1)
- Locktite, Blue (1)

PARTS:

- 350mm Rotor - LH (1)
- 350mm Rotor - RH (1)
- Caliper Mounting Bracket (2)
- Socket Cap Bolt - Short (4)

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Step 1 — Getting Started



- First and foremost; **THANK YOU** for becoming a part of the 27WON Family. We hope to **REDEFINE** your experience of the aftermarket with the highest level Parts, Customer Service, Packaging, & Support
- This is a great time to replace your rear brake pads. Check the out 27WON rear pads (not included) https://store.27won.com/performance-rear...

ⓘ After a few hundred miles the black coating on the rotors will wear away from contact with the brake pads revealing a raw steel finish

⚠ Verify aftermarket wheel clearance before running this kit. The product listing has some guidance about aftermarket wheels. This kit works with OE wheels

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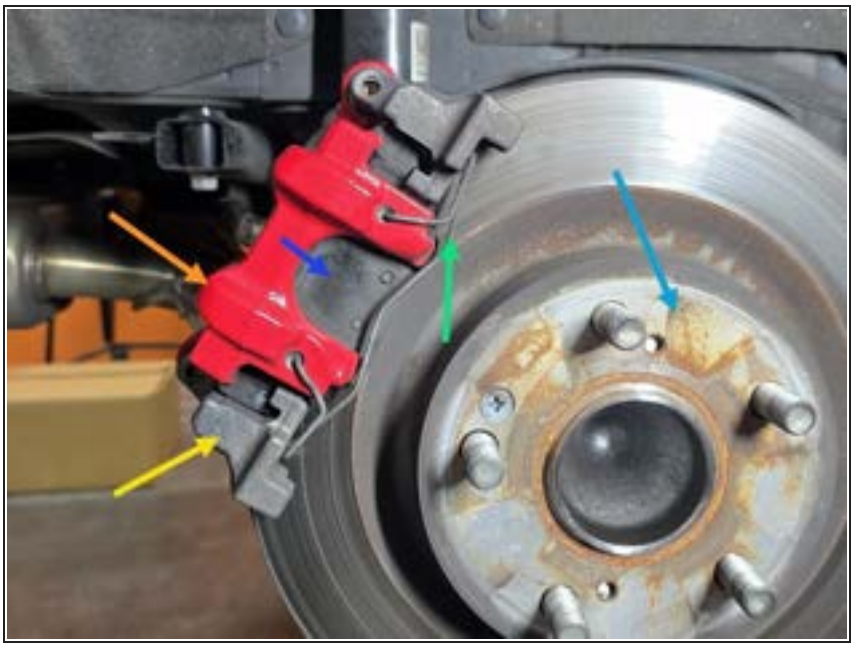
Step 2 — Warning & Advisory



- These instructions reference the separate sides of the vehicle as "Left Hand" & "Right Hand". Left Hand & Right Hand is always defined from the driver seat viewpoint
- The parking brake must be disengaged before starting this process
- ⚠ Exercise caution when working under your car with the parking brake disengaged. We recommend blocking your front wheels to prevent the car from rolling in the event of an emergency or accident

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Step 3 — Access the Brake System & Identify Components

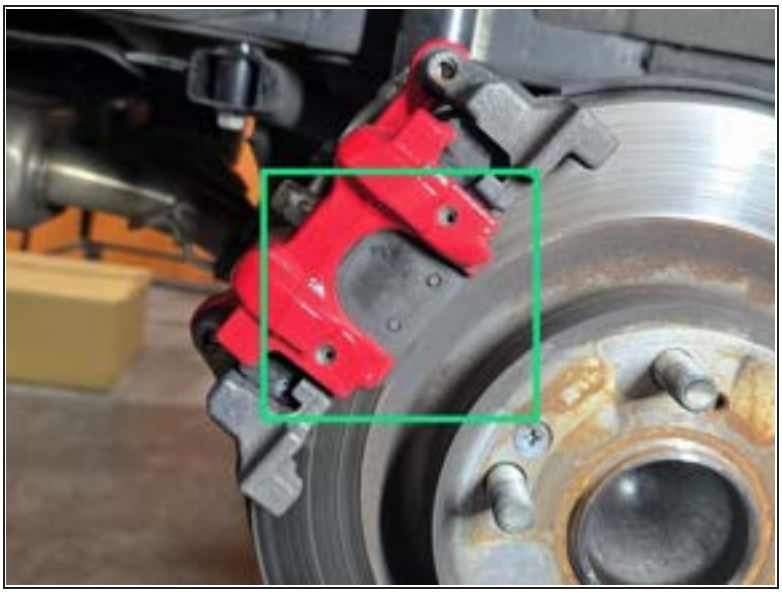


- Disengage the parking brake
- Raise the vehicle and support with jackstands in the OE recommended locations and remove the rear wheels/tires
- ⓘ The following instructions show the right-hand side complete removal of OE components and installation of 27WON rotor upgrade. The left-hand side is completed with the same steps
- Brake Caliper
- Brake Caliper Bracket
- Caliper Tension Clip
- Brake Rotor
- Brake Pads

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Step 4 — Remove Caliper Tension Clip





- Using a flat head screw driver, pop the tension clip out of its retaining holes as shown

  ⚠ Watch your fingers here! This clip can come off with some force and potentially injure you

- With the little bit of force this should come off easily as shown

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Step 5 — Remove Brake Caliper





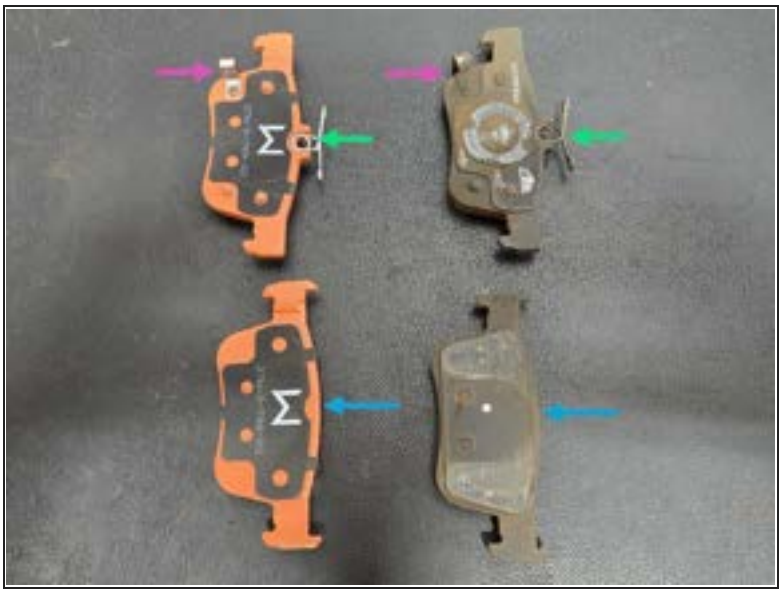
- Move to the back side of the caliper for the removal process
- Using a flat head screw driver or your finger remove the two plastic caps circled in orange
- Using a 7mm Allen head socket and a 3/8" drive ratchet, remove the two caliper slider bolts circled in yellow
- Remove the caliper from the rotor as shown
  - ⓘ If the rotor is heavily worn, you may need to spread the brake pads apart to gain clearance

⚠ Do not let the caliper hang from the brake line! This could cause damage to the line or fittings

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Step 6 — Remove Brake Pads





- Remove both brake pads as shown, these will come straight up and out
- Lay out your OE pads, or 27WON replacement pads to make sure you have the correct pads for each side
  - Inner
  - Outer
  - Matching wear indicator location

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Step 7 — Remove OE Caliper Bracket and OE Rotor





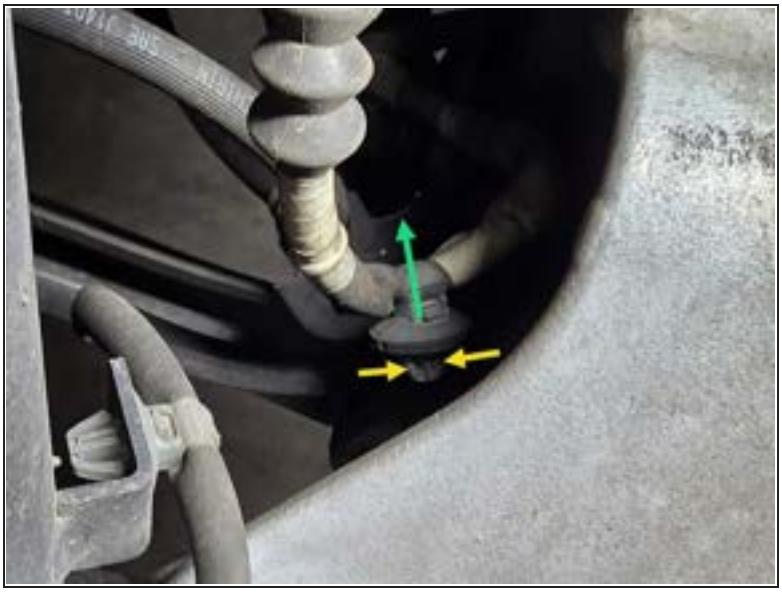
- With the brake pads removed, move to the back side of the brake rotor to remove the caliper bracket bolts
- Use a 17mm socket, and a 3/8" drive ratchet to remove the two bolts circled in orange
- With the bolts removed, pull the bracket out from behind the rotor
- Use a #3 Phillps screwdriver to remove the rotor retention screw

  ⚠ You may need to let this soak with a small amount of WD-40 or equivalent spray
- With retention screw removed, slide the rotor outward off the wheel studs

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Step 8 — Un-Clip Electronic E-Brake Tie Down





- With the OE rotor removed, follow the wire shown off of the electronic e-brake to the first plastic clip on the line
  - ⓘ This clip will need to be removed for the OE calipers to sit on the enlarged rotors without putting tension on the wire
- Use your fingers or a pair of pliers to press the plastic tabs in on both sides
- With the tabs pressed in, pull the clip out of the metal mounting tab

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Step 9 — Inspect OE Brake Components





- ⓘ Follow Factory Service Manual (FSM) for proper maintenance of braking system
- ⚠ Worn/damaged calipers can cause brake system failure and premature pad wear. Make sure your brake system doesn't need the other components serviced
- ⓘ These parts are shown off of the vehicle, but can still be easily inspected without removing them
- Verify the removed brake pads are worn even. Both ends of the pads should be roughly the same thickness. If your pads are wearing unevenly this could indicate a bad rotor or caliper
- Inspect your calipers for any cracking or obvious leaks
- Inspect your caliper piston boot for any rips or tears. This is may indicate that the caliper needs replaced

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Step 10 — Install 27WON Replacement Rotors





- Right Hand side of vehicle shown - locate the right hand rotor for install

⚠ This is the passenger side in the USA

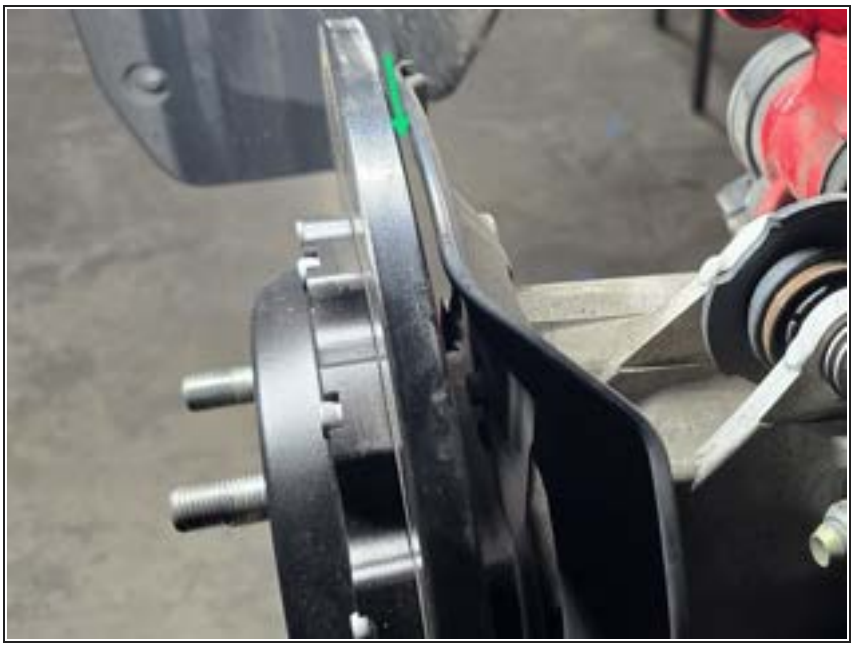
- Install the rotor over the wheel studs
- Align one of the chamfer holes in the brake rotor with the rotor retention screw hole
- Install the OE rotor retention screw removed in an earlier step. Tighten with #3 Phillips screwdriver

ⓘ After a few hundred miles the black coating on the rotors will wear away from contact with the brake pads revealing a raw steel finish

- At this point you will notice some contact between the rotor and the dust shield behind it. This is not damaging the rotor. See next step

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Step 11 — Verify Brake Rotor to Dust Shield Clearance



- Check the clearance between the rotor and the dust shield
- ⚠ Inspect clearance around the entire circumference of the rotor
- If there is less than 1/4" of clearance then bend the dust shield away from the rotor to gain clearance

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Step 12 — Locate Caliper Brackets & Cap Bolts



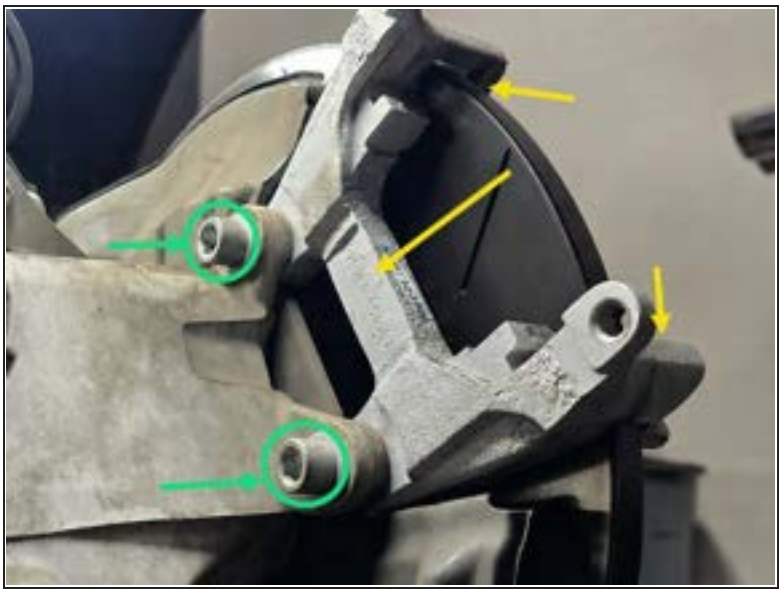


- Locate the provided caliper bracket
  - Mounting holes to vehicle
  - Mounting holes to caliper
- Short M10 Socket Cap Bolts

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Step 13 — Install 27WON Caliper Bracket

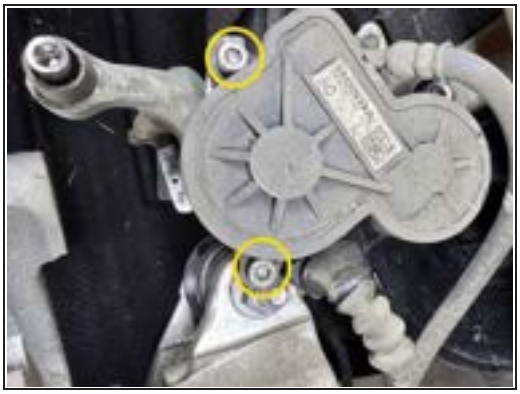
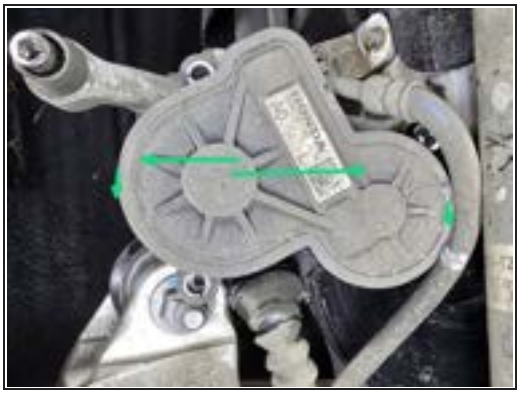




- Apply small amount of blue Loc-tite to threads as shown on two of the short socket cap bolts
- Install provided caliper bracket as shown
  - ⓘ Production Brackets are Red
  - The hooks on the bracket should go over the rotor as shown
- Hand thread the short socket cap bolts
- Use a 10mm Allen key socket and torque wrench to torque to 80 ft-lbs

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Step 14 — Put the Parking Brake into Maintenance Mode - Part 1


- With the caliper removed, we will now proceed to putting the caliper into "Brake maintenance" mode. This process is shown on a 2023 Civic SI, the process is identical on the Type R / Type S
- ⓘ The following steps will show you how to perform this manually. If you have a scanner tool that can do this electronically then do that now and skip to Step 16
- Use a 5mm Allen head socket and a 3/8" drive ratchet to remove the two bolts securing the parking brake motor as shown
- Firmly holding the caliper, wiggle the motor back and forth while pulling the motor away from the caliper until the motor detaches
  - ⓘ This can take a bit of force, and a lot of wiggling. Be patient to ensure it doesn't fly off and damage the motor. Or worse your hand!
- Once the motor is removed you will see the internal spindle as shown

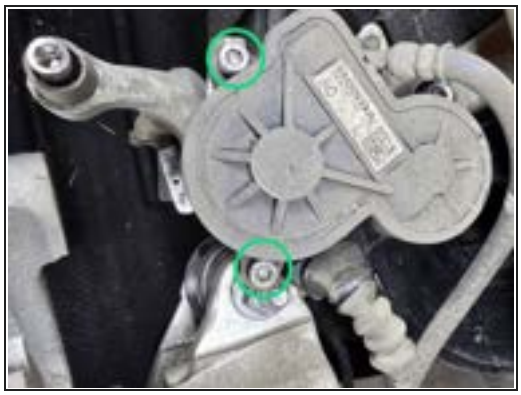
⚠ Do not wipe away the grease on the spindle unless you plan to re-grease it!

- Using a 9mm socket and your hand turn the male end of the spindle clockwise until it stops moving. **DO NOT** force it to turn any further once you feel resistance

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Step 15 — Put the Parking Brake into Maintenance Mode - Part 2





- With the spindle turned clockwise you can safely compress the rear caliper piston using a compressor tool or C-clamp

ⓘ Once the piston is compressed the position of the spindle does not matter. Rotating it back can help realign it with the female end of the spindle

- Gently insert the male end of the spindle into the parking brake motor as shown

ⓘ Be sure that the male and female end of the spindle line up before installing the bolts. The motor should sit flush with the parking brake assembly if they are aligned correctly

- Using a 5mm Allen head socket and a 3/8" drive ratchet, install the two bolts circled in green and torque to **12 Ft/Lbs** to secure the parking brake motor

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Step 16 — Install Brake Pads





- ⓘ This is shown on a 2022 Civic SI. The process is the same for the Type R / Type S
- Install the inner and outer brake pads into the caliper bracket as shown
- Install your OE caliper over the brake pads as shown
  - Before proceeding, verify the brake pad alignment tabs are sitting in the caliper and caliper bracket as shown

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Step 17 — Reinstall the OE Caliper





- Using a 7mm Allen head socket and a 3/8" ratchet, reinstall the caliper slider bolts as shown and torque to **25 Ft/Lbs**
- Replace the previously removed plastic caps over the slider bolts as shown
- Secured caliper should appear as shown

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Step 18 — Reinstall Tension Clip





- Using both hands, insert the tension clip ends into the mounting holes on the caliper as shown
  - ⚠ This will need to be held in place until both ends of the clip are pressed into place to ensure the clip does not pop out!
- Using your hands, or a screw driver press the top and bottom of the tension clip into its resting place on the caliper bracket as shown
- Once the clip is pressed into position, give the whole clip a once over to ensure it is fully secure and seated in to the caliper
- This is a good time to mount a wheel and make sure it clears the new rotor setup. It should spin freely without any contact between the brake system components and the wheel. OE wheels will work fine with this kit

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Step 19 — Complete Left Hand Side Installation



- This completes the Brake Rotor installation for the Right hand side of the vehicle. The left hand installation process is the same
- Complete the left hand installation process starting on Step 4

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Step 20 — Reinstall Wheels and Verify Clearance



- Reinstall your wheels at this time and safely get your car back on the ground before proceeding to bedding your new rotors
- For aftermarket wheels, verify wheels clear the new rotor setup. Wheels should spin freely without any contact between the brake system components and the wheel. This kit fits OE wheels

⚠ Before proceeding with the bedding proceedure, verify your parking brake appears to be operating as normal by turning it on and off a few times

ⓘ This completes the installation of the 27WON brake rotors - The following step provides instruction for Brake Rotor Bedding

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Step 21 — Brake Bedding Procedure



This process is necessary when you install new brake pads, or brake rotors

Brake bedding is an essential process to the life and durability of the brake pads and rotors - for optimal performance please follow the steps below

⚠ Proper bedding slowly heats and cools the rotors & pads - do not hard brake during initial driving until after complete bedding procedure is complete

- Find an open road and accelerate to 30mph - Brake evenly and smoothly at ~50% effort until the vehicle is almost stopped, then accelerate to 30mph again
  - Repeat above step 8-10 times
- Find an open road and accelerate to 50mph - Brake evenly and smoothly at ~80% effort until the vehicle is almost stopped, then accelerate to 50mph again
  - Repeat above step 2-3 times
- Allow ~15min for brakes to cool - You can now use the brakes for normal driving

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Step 22 — I Dare You to REDEFINE



- This completes the installation & setup of your 27WON Performance Upgraded Rear Rotors
- We hope you were impressed with your 27WON experience and love your new rotors for years to come. Email us at sales@27won.com or call us at 571-271-0271 with any questions or concerns
- Please Leave a review here: https://store.27won.com/civic-type-r-int...
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