ASSEMBLY INSTRUCTIONS
FOR
2002 - 2006 ACURA RSX (5 LUG)
FOR FACTORY 262mm DISC UPRIGHT*
*For additional vehicle compatibility, visit www.wilwood.com

DYNAPRO 6A FRONT BRAKE KIT WITH 12.19” DIAMETER VENTED ROTOR

BASE PART NUMBER
140-17519

DISC BRAKES SHOULD ONLY BE INSTALLED BY SOMEONE EXPERIENCED AND COMPETENT IN THE INSTALLATION AND MAINTENANCE OF DISC BRAKES
READ ALL WARNINGS

WARNING
IT IS THE RESPONSIBILITY OF THE PERSON INSTALLING ANY BRAKE COMPONENT OR KIT TO DETERMINE THE SUITABILITY OF THE COMPONENT OR KIT FOR THAT PARTICULAR APPLICATION. IF YOU ARE NOT SURE HOW TO SAFELY USE THIS BRAKE COMPONENT OR KIT, YOU SHOULD NOT INSTALL OR USE IT. DO NOT ASSUME ANYTHING. IMPROPERLY INSTALLED OR MAINTAINED BRAKES ARE DANGEROUS. IF YOU ARE NOT SURE, GET HELP OR RETURN THE PRODUCT. YOU MAY OBTAIN ADDITIONAL INFORMATION AND TECHNICAL SUPPORT BY CALLING WILWOOD AT (805) 388-1188, OR VISIT OUR WEB SITE AT WWW.WILWOOD.COM. USE OF WILWOOD TECHNICAL SUPPORT DOES NOT GUARANTEE PROPER INSTALLATION. YOU, OR THE PERSON WHO DOES THE INSTALLATION MUST KNOW HOW TO PROPERLY USE THIS PRODUCT. IT IS NOT POSSIBLE OVER THE PHONE TO UNDERSTAND OR FORESEE ALL THE ISSUES THAT MIGHT ARISE IN YOUR INSTALLATION.

RACING EQUIPMENT AND BRAKES MUST BE MAINTAINED AND SHOULD BE CHECKED REGULARLY FOR FATIGUE, DAMAGE, AND WEAR.

NEED ADDITIONAL INFORMATION? USE YOUR SMARTPHONE AND JUMP TO OUR TECHNICAL TIPS SECTION ON OUR WEB SITE.

WARNING
DO NOT OPERATE ANY VEHICLE ON UTESTED BRAKES!
SEE MINIMUM TEST PROCEDURE WITHIN
ALWAYS UTILIZE SAFETY RERAINT SYSTEMS AND ALL OTHER AVAILABLE SAFETY EQUIPMENT WHILE OPERATING THE VEHICLE

IMPORTANT • READ THE DISCLAIMER OF WARRANTY INCLUDED IN THE KIT

NOTE: Some cleaners may stain or remove the finish on brake system components. Test the cleaner on a hidden portion of the component before general use.
Important Notice - Read This First

Before any tear-down or disassembly begins, review the following information:

- Review the wheel clearance diagram (Figure 2, page 3) to verify that there is adequate clearance with the wheels you will be using with the installation.
- This brake kit does not include flex lines. OEM brake lines will not adapt to Wilwood calipers. Check the assembly instructions, or associated components section for brake line recommendations before assembly. In addition, Wilwood offers an extensive listing of brake lines and fittings on our web site: www.wilwood.com.
- Due to OEM production differences and other variations from vehicle to vehicle, the fastener hardware and other components in this kit may not be suitable for a specific application or vehicle.
- It is the responsibility of the purchaser and installer of this kit to verify suitability / fitment of all components and ensure all fasteners and hardware achieve complete and proper engagement. Improper or inadequate engagement can lead to component failure.

Exploded Assembly Diagram

Figure 1. Typical Installation Configuration, Left Hand Application Shown
Photographic Tip

Important and highly recommended: Take photos of brake system before disassembly and during the disassembly process. In the event, trouble-shooting photos can be life savers. Many vehicles have undocumented variations, photos will make it much simpler for Wilwood to assist you if you have a problem.

Parts List

<table>
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<tr>
<th>ITEM NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
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<tr>
<td>1</td>
<td>250-6289</td>
<td>Bracket, Caliper Mounting</td>
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<td>300-6347</td>
<td>Sleeve</td>
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<td>230-9897</td>
<td>Bolt, 7/16-20 x 1.25&quot; Long, Hex Head</td>
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<td>4</td>
<td>240-11101</td>
<td>Washer, .453&quot; I.D. x .750&quot; O.D. x .063&quot; Thick</td>
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<td>5</td>
<td>160-5843</td>
<td>Rotor, 12.19&quot; Diameter x .81&quot; Thick, 8 x 7.00&quot; Bolt Circle</td>
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<td>5A</td>
<td>160-7103/04-BK</td>
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<td>170-6947</td>
<td>Hat, 8 x 7.00&quot; Bolt Circle, 5 x 4.50&quot; Lug Pattern, .725&quot; Offset</td>
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<td>7</td>
<td>230-11935</td>
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<td>120-13434/35-BK</td>
<td>Caliper, DynaPro 6A, Black (one each, right &amp; left)</td>
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<tr>
<td>8A</td>
<td>120-13434/35-RD</td>
<td>Caliper, DynaPro 6A, Red (one each, right &amp; left)</td>
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<td>230-10025</td>
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<td>10</td>
<td>240-10190</td>
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<td>Shim, .035&quot; thick</td>
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<td>12</td>
<td>150-10006K</td>
<td>Pad, BP-10, Axle Set</td>
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NOTES:
- Part Number 230-7007 Caliper Bracket Mounting Bolt Kit, includes part numbers 230-9897, 240-11101 and 300-6347
- Part Number 230-11861 Caliper Mounting Bolt Kit, includes part numbers 230-10025, 240-10190 and 240-1159
- Part Number 230-12177 Rotor Bolt Kit, includes part number 230-11935

Item 5A is an optional item and is included in the "D" drilled rotor kits. Add "-D" to end of part number when ordering.

Item 8A is an optional item and included in the red caliper kits. Add "-R" to end of part number when ordering.

General Information

- Installation of this kit should ONLY be performed by persons experienced in the installation and proper operation of disc brake systems. Before assembling this Wilwood disc brake kit, double check the following to ensure a trouble free installation.
  - Inspect the contents of this kit against the parts list to ensure that all components and hardware are included.
  - Make sure this is the correct kit to match the exact make and model year of your vehicle. This kit is designed for direct bolt-on installation to model year 2002 - 2006 Acura RSX (5 lug), for factory 262mm disc upright.
  - Verify your wheel clearance using Figure 2.
  - Verify that the factory hub center register diameter and lug pattern match those in the new hat. NOTE: Hubs that have been modified with different size studs or lug patterns may require modifications to the new hat that must be performed by a qualified machinist.

Disassembly Instructions

- Disassemble the original equipment front brakes:
  - Raise the front wheels off the ground and support the front suspension according to the vehicle manufacturer’s instructions.
  - Remove the front wheels, calipers and rotors.
  - Remove any nicks or burrs on the upright and hub face that may interfere with the installation of the new brake components.
  - Clean and de-grease the upright, caliper mounting bosses, and hub face.

Figure 2. Wheel Clearance Diagram

NOTE: A MINIMUM OF .080" CLEARANCE MUST BE MAINTAINED BETWEEN THE WHEEL AND CALIPER IN ALL AREAS
NOTE: Numbers in parenthesis refer to the parts list and Figure 1 on the preceding pages.

CAUTION: All mounting bolts must fully engage clinch nuts. Be sure to check that all bolts are either flush or protruding through flanged side of clinch nut after shimming, Figure 3.

STEP 1 Insert one sleeve (2) into each hole of the caliper mounting tabs of the upright, Figure 1. Orient the caliper mount bracket (1) as shown in Figure 1, and install using bolts (3) and washers (4). Ensure that the flanged heads of the clinch nuts in the bracket are facing outboard, Figure 1. Temporarily tighten the mounting bolts. NOTE: The bracket must fit squarely against the mount bosses on the upright. Inspect for interference from casting irregularities, machining ridges, burrs, etc. Remove bolts (3) one at a time, apply red Loctite® 271 to the threads and torque to value shown in Figure 1.

STEP 2 Orient the rotor (5) and the hat (6) as shown in Figure 1 and Photo 1. Attach rotor to hat using bolts (7). Apply red Loctite® 271 to the bolt threads and torque to value shown in Figure 1 using a criss-cross pattern.

STEP 3 Slide the rotor/hat assembly (5/6) onto the upright. NOTE: The hat must fit flush against the upright hub face or excessive rotor run out may result. Install three lug nuts (finger tight) to keep the rotor/hat assembly in place while continuing with the installation.

STEP 4 NOTE: This kit contains distinct right and left hand calipers that must be mounted in a specific direction, as described below. Mount the caliper (8) onto the caliper mounting bracket (1) using bolts (9) and washers (10), as shown in Figure 1. Initially place one .035” thick shim (11) on each bolt between the caliper and the bracket, Photo 2. Ensure that the caliper is mounted so the largest pistons are at the rotor exit end of the caliper, in relation to the direction of forward rotor rotation. Temporarily tighten the mounting bolts and view the rotor (5) through the top opening of the caliper. The rotor should be centered in the caliper, Photo 3. If not, adjust by adding or subtracting shims (11) between the bracket and the caliper. Always use the same amount of shims on each of the two mounting bolts. NOTE: The end of each bolt (9) must be flush with or slightly protruding from the head of the clinch nut, as shown in Figure 3. If necessary place spare shims between washer (10) and caliper mounting ear to achieve the proper clinch nut engagement. Once the caliper alignment and clinch nut engagement are correct, remove the mounting bolts and caliper.

STEP 5 Remove the two pad retaining pins from the caliper (8) by carefully popping out the pin retaining clips and sliding out the pins. Insert the brake pads (12) into the caliper from the bottom, Figure 1 and Photo 4, with the friction material facing the rotor. Secure the brake pads in place with the pad retaining pins and clips, Photo 5. Reinstall the caliper onto the caliper mounting bracket. Apply red Loctite® 271 to bolt threads (9), and torque to value shown in Figure 1.
STEP 6 Temporarily install wheel and torque lug nuts to manufacturer’s specification. Ensure that the wheel rotates freely without any interference. Remove wheel for next step.

STEP 7 Attach brake line to caliper. The caliper inlet fitting is a 1/8-27 NPT. The preferred method is to use steel adapter fittings at the caliper, either straight, 45 or 90 degree (use PTFE tape on pipe threads of adapter fitting for proper sealing to caliper) and enough steel braided line to allow for full suspension travel and turning radius, lock to lock. Carefully route hoses to prevent contact with moving suspension, brake or wheel components. Wilwood offers a hose kit, p/n 220-6860, which includes hoses, fittings, etc., all in one package for this application.

- **NOTE:** OEM rubber brake hoses generally cannot be adapted to Wilwood calipers.

- **NOTE:** Wilwood hose kits are designed for use in many different vehicle applications and it is the installer’s responsibility to properly route and ensure adequate clearance and retention for brake hose components.

- **NOTE:** Specified brake hose kits may not work with all Years, Makes and Models of vehicle that this brake kit is applicable to, due to possible OEM manufacturing changes during a production vehicle’s life. It is the installer’s responsibility to ensure that all fittings and hoses are the correct size and length, to ensure proper sealing and that they will not be subject to crimping, strain and abrasion from vibration or interference with suspension components, brake rotor or wheel.

- **CAUTION:** In absence of specific instructions for brake line routing, the installer must use his best professional judgment on correct routing and retention of lines to ensure safe operation. Test vehicle brake system per the ‘Minimum Test Procedure’ stated within this document before driving. After road testing, inspect for leaks and interference. Initially after install and testing, perform frequent checks of the vehicle brake system and lines before driving, to confirm that there is no undue wear or interference not apparent from the initial test. Afterwards, perform periodic inspections for function, leaks and wear in an interval relative to the usage of vehicle.

STEP 8 Bleed the brake system, referring to the ‘Additional Information and Recommendations’ on page 6 for proper bleeding instructions. Check system for leaks after bleeding.

STEP 9 Install the wheel and torque lug nuts to manufacturer’s specifications.

STEP 10 Bed-in the brake pads per the procedure on page 7.
Please read the following concerning balancing the brake bias on 4 wheel disc vehicles.

This brake kit can be operated using the stock OEM master cylinder. However, as with most suspension and tire modifications (from OEM specifications), changing the brakes may alter the front to rear brake bias. Rear brakes should not lock up before the front. Brake system evaluation and tests should be performed by persons experienced in the installation and proper operation of brake systems. Evaluation and tests should be performed under controlled conditions. Start by making several stops from low speeds then gradually work up to higher speeds. Always utilize safety restraint systems while operating vehicle.

Use a Wilwood adjustable proportioning valve if necessary to achieve proper brake balance, or

Use a Wilwood brake pedal/balancebar assembly with dual master cylinders (requires custom mounting as used in fabricated chassis race cars). A balance bar brake system permits incremental front to rear brake pressure adjustments.

For optimum performance, fill and bleed the new system with Wilwood Hi-Temp® 570 grade fluid or EXP 600 Plus. For severe braking or sustained high heat operation, use Wilwood EXP 600 Plus Racing Brake Fluid. Used fluid must be completely flushed from the system to prevent contamination.

NOTE: Silicone DOT 5 brake fluid is NOT recommended for racing or performance driving.

To properly bleed the brake system, begin with the caliper farthest from the master cylinder. Bleed the outboard bleed screw first, then the inboard. Repeat the procedure until all calipers in the system are bled, ending with the caliper closest to the master cylinder. If the caliper is fitted with bleed screws on four corners, make sure the bottom bleed screws are tight. Only bleed from the top bleed screws. NOTE: When using a new master cylinder, it is important to bench bleed the master cylinder first.

If the master cylinder is mounted lower than the disc brake calipers, some fluid flowback to the master cylinder reservoir may occur, creating a vacuum effect that retracts the caliper pistons into the housing. This will cause the pedal to go to the floor on the first stroke until it has "pumped up" and moved all the pistons out against the pad again. A Wilwood in-line two pound residual pressure valve, installed near the master cylinder will stop the fluid flowback and keep the pedal firm and responsive.

Test the brake pedal. It should be firm, not spongy and stop at least 1 inch from the floor under heavy load.

If the brake pedal is spongy, bleed the system again.

If the brake pedal is initially firm, but then sinks to the floor, check the system for fluid leaks. Correct the leaks (if applicable) and then bleed the system again.

If the brake pedal goes to the floor and continued bleeding of the system does not correct the problem, a master cylinder with increased capacity (larger bore diameter) will be required. Wilwood offers various lightweight master cylinders with large fluid displacement capacities.

NOTE: With the installation of after market disc brakes, the wheel track may change depending on the application. Check your wheel offset before final assembly.

On some models of disc brake spindles there are "ears" where the OEM calipers were mounted and these "ears" interfere with the assembly of the Wilwood disc brake kit. If it becomes necessary to remove these "ears", remove as little as possible being careful not to cut away any of the mounting holes that may be required to bolt on the caliper mounting bracket.
Bedding Steps for New Pads and Rotors – All Compounds

Once the brake system has been tested and determined safe to operate the vehicle, follow these steps for the bedding of all new pad materials and rotors. These procedures should only be performed on a race track, or other safe location where you can safely and legally obtain speeds up to 65 MPH, while also being able to rapidly decelerate.

• Begin with a series of light decelerations to gradually build some heat in the brakes. Use an on-and-off the pedal technique by applying the brakes for 3-5 seconds, and then allow them to fully release for a period roughly twice as long as the deceleration cycle. If you use a 5 count during the deceleration interval, use a 10 count during the release to allow the heat to sink into the pads and rotors.

• After several cycles of light stops to begin warming the brakes, proceed with a series of medium to firm deceleration stops to continue raising the temperature level in the brakes.

• Finish the bedding cycle with a series of 8-10 hard decelerations from 55-65 MPH down to 25 MPH while allowing a proportionate release and heat-sinking interval between each stop. The pads should now be providing positive and consistent response.

• If any amount of brake fade is observed during the bed-in cycle, immediately begin the cool down cycle.

• Drive at a moderate cruising speed, with the least amount of brake contact possible, until most of the heat has dissipated from the brakes. Avoid sitting stopped with the brake pedal depressed to hold the car in place during this time. Park the vehicle and allow the brakes to cool to ambient air temperature.

• If your race car is equipped with brake cooling ducts, blocking them will allow the pads and rotors to warm up quicker and speed up the bedding process.

• Temperature indicating paint on the rotor and pad edges can provide valuable data regarding observed temperatures during the bedding process and subsequent on-track sessions. This information can be highly beneficial when evaluating pad compounds and cooling efficiencies.

Competition Vehicles

• If your race car is equipped with brake cooling ducts, blocking them will allow the pads and rotors to warm up quicker and speed up the bedding process.

• Temperature indicating paint on the rotor and pad edges can provide valuable data regarding observed temperatures during the bedding process and subsequent on-track sessions. This information can be highly beneficial when evaluating pad compounds and cooling efficiencies.
POST-BEDDING INSPECTION – ALL VEHICLES
• After the bedding cycle, the rotors should exhibit a uniformly burnished finish across the entire contact face. Any surface irregularities
that appear as smearing or splotching on the rotor faces can be an indication that the brakes were brought up to temperature too
quickly during the bedding cycle. If the smear doesn’t blend away after the next run-in cycle, or if chatter under braking results,
sanding or resurfacing the rotors will be required to restore a uniform surface for pad contact.

PRE-RACE WARM UP
• Always make every effort to get heat into the brakes prior to each event. Use an on-and-off the pedal practice to warm the brakes
during the trip to the staging zone, during parade laps before the flag drops, and every other opportunity in an effort to build heat in
the pads and rotors. This will help to ensure best consistency, performance, and durability from your brakes.

DYNO BEDDED COMPETITION PADS AND ROTORS
• Getting track time for a proper pad and rotor bedding session can be difficult. Wilwood offers factory dyno-bedded pads and rotors
on many of our popular competition pads and Spec 37 GT series rotors. Dyno-bedded parts are ready to race on their first warm up
cycle. This can save valuable time and effort when on-track time is either too valuable or not available at all. Dyno-bedding assures
that your pads and rotors have been properly run-in and are ready to go. Contact your dealer or the factory for more information on
Wilwood Dyno-Bedding services.

NOTE: NEVER allow the contact surfaces of the pads or rotors to be contaminated with brake fluid. Always use a catch bottle with a hose
to prevent fluid spill during all brake bleeding procedures.

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Associated Components

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<th>PART NO.</th>
<th>DESCRIPTION</th>
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<tr>
<td>260-13706</td>
<td>Wilwood Residual Pressure Valve (2 lb for disc brakes)</td>
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<tr>
<td>260-13707</td>
<td>Wilwood Residual Pressure Valve (10 lb for drum brakes)</td>
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<td>260-8419</td>
<td>Wilwood Proportioning Valve, Knob Style</td>
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<td>260-8420</td>
<td>Wilwood Proportioning Valve, Lever Style</td>
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<tr>
<td>260-11179</td>
<td>Wilwood Combination Proportioning Valve with Brake Light Switch</td>
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<td>290-0632</td>
<td>Wilwood Racing Brake Fluid (Hi-Temp® 570) (12 oz)</td>
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<td>Wilwood Swing Mount Brake Pedal (with balance bar)</td>
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