ASSEMBLY INSTRUCTIONS

FOR

2002 - 2010 BMW MINI COOPER AND MINI COOPER "S" *(1)

(1) IF UTILIZING THE STOCK 16" WHEELS, A 1/8" WHEEL SPACER WILL BE REQUIRED

*For additional vehicle compatibility, visit www.wilwood.com

DYNAPRO FRONT BRAKE KIT WITH
12.19” DIAMETER VENTED ROTOR

BASE PART NUMBER
140-8528

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.

WARNING

DO NOT OPERATE ANY VEHICLE ON UNTESTED BRAKES!

SEE MINIMUM TEST PROCEDURE WITHIN

ALWAYS UTILIZE SAFETY RESTRAINT 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.

Restriction: DO NOT USE ANY CLEANER THAT IS CAUSTIC OR ACIDIC OR CAN DAMAGE ENAMEL OR METAL FINISHES.
**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](http://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.

**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.

**Exploded Assembly Diagram**

- **Warning:** Installation of this kit should only be performed by persons experienced in the installation and proper operation of disc brake systems.
- **Note:** Specific parts may vary from diagram.

*Figure 1. Typical Installation Configuration*
Installation of this kit should ONLY be performed by persons experienced in the installation and proper operation of disc brake systems. Before installation begins, please read the complete procedure thoroughly to familiarize yourself with the process, and double check the following items to ensure a trouble-free installation.

- Make sure this is the correct kit to match the exact make and model year of the vehicle’s spindle.
- Verify the hat bolt pattern in this kit matches the bolt pattern of the vehicle’s hubs.
- Verify your wheel clearance using Figure 2.
- Inspect the package contents against the parts list to ensure that all components and hardware are included.

**Disassembly**

- 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 wheel. Remove the two bolts that hold the stock caliper mounting bracket to the spindle. Lift off the bracket and stock caliper as one unit, then slide off the stock hat and rotor assembly. On some models you may have to unbolt the stock caliper from the caliper bracket before removal.
  - Remove OEM dust plate assembly by removing the four attachment bolts. Dust plate will not be reused.
  - Thoroughly clean and de-grease the spindles while removing any nicks or burrs.

**Assembly Instructions** (numbers in parenthesis refer to the part list/diagram on the preceding pages): CAUTION: All mounting bolts must fully engage insert nuts. Be sure to check that all bolts are either flush or protruding through flanged side of insert nut after shimming.

### Parts List

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
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<tr>
<td>1</td>
<td>250-8646</td>
<td>Bracket, Caliper Mounting</td>
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<td>300-8359</td>
<td>Sleeve</td>
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<td>3</td>
<td>230-10425</td>
<td>Bolt, 7/16-20 x 1.50&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>240-3902</td>
<td>Shim, .016&quot; Thick</td>
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<td>6</td>
<td>150-8946K</td>
<td>Pad, BP-10, Axle Set</td>
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<td>7</td>
<td>160-5843</td>
<td>Rotor, .81&quot; Thk x 12.19&quot; Dia, 8 x 7.00&quot; Bolt Circle</td>
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<tr>
<td>7A</td>
<td>160-7103/04-BK</td>
<td>Rotor, Drilled and Slotted</td>
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<tr>
<td>8</td>
<td>170-10650</td>
<td>Hat</td>
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<td>9</td>
<td>300-8259</td>
<td>Anti-Squeal Shim, 4 Pack</td>
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<td>120-14701-BK</td>
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<tr>
<td>11A</td>
<td>120-14701-RD</td>
<td>Caliper, DynaPro, Red</td>
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<tr>
<td>12</td>
<td>230-16550</td>
<td>Nut, 3/8-24 Self-Locking, 6 Point</td>
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<tr>
<td>13</td>
<td>240-10190</td>
<td>Washer, .391&quot; I.D. x .625&quot; O.D. x .063&quot; Thick</td>
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<td>15</td>
<td>240-10306</td>
<td>Shim, .016&quot; Thick</td>
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<td>16</td>
<td>230-9078</td>
<td>Stud, 3/8-16 x 3/8-24 x 2.50&quot; Long (pre installed in bracket)</td>
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**NOTES:**

- Part Number 230-12177 Rotor Bolt Kit, includes part number 230-11935
- Part Number 250-8694 Caliper Bracket Mounting Bolt Kit, includes P/N’s 230-16550, 230-9078, 240-10306, 240-10190, 250-8646 & 300-8764
- Part Number 230-8692 Spindle Bracket Mounting Bolt Kit, includes P/N’s 230-10425, 240-11011, 240-3902 and 300-8359

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<td>300-10343</td>
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<td>10A</td>
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<td>Nut, 3/8-24 Self-Locking, 6 Point</td>
<td>4</td>
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<tr>
<td>11A</td>
<td>120-14701-RD</td>
<td>Caliper, DynaPro, Red</td>
<td>2</td>
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</tbody>
</table>

Item 7A is an optional item and is included with the “-D” drilled rotor kits. Add “-D” to end of part number when ordering.

Item 11A is an optional item and is included with the “-R” red caliper kits. Add “-R” to end of part number when ordering.

Wilwood offers an optional Braided Stainless Steel Hose Kit. Order part number 220-8491 (not included in kit).

**General Information, Disassembly, and Assembly Instructions**

Installation of this kit should ONLY be performed by persons experienced in the installation and proper operation of disc brake systems. Before installation begins, please read the complete procedure thoroughly to familiarize yourself with the process, and double check the following items to ensure a trouble-free installation.

- Make sure this is the correct kit to match the exact make and model year of the vehicle’s spindle.
- Verify the hat bolt pattern in this kit matches the bolt pattern of the vehicle’s hubs.
- Verify your wheel clearance using Figure 2.
- Inspect the package contents against the parts list to ensure that all components and hardware are included.

![Figure 2. Wheel Clearance Diagram](image-url)
• Insert one sleeve (2) each into the holes on the top and bottom of the spindle “ears” where the OEM caliper bracket was removed. The caliper mounting bracket assembly (1) should be installed first with clean, dry threads on the mounting bolts. Install the bracket from the rear side of the spindle by sliding bolts (3) through flat washer (4). Place shim washer (5) between the bracket (1) and the spindle (see Figure 1). The bracket must tighten squarely against the side of the spindle body. Inspect for interference from casting irregularities, machining ridges, burrs, etc. Use one thin shim (5) between the bracket and spindle during initial trial fitting.

• With the larger I.D. side of the rotor (7) facing away from the hat (8), attach rotor (7) to hat (8) using bolts (10) as shown in Figure 1. Remove bolts on at a time, apply red Loctite® 271 to the bolt threads and torque to 25 ft-lb using a criss-cross pattern.

• Slide the rotor/hat assembly onto the axle hub. Install three wheel bolts (finger tighten) to keep the rotor/hat assembly in place while continuing with the installation.

• NOTE: Please reference the caution statement at the beginning of the assembly instructions. Install spacer (14) and one shim (15) over each pre-installed stud (16) on the radial mount bracket (1). Slide the caliper (11) in place over the studs and rotors and install the washer (13) and lock nut (12) to hold the caliper in place. Snug the lock nuts (12) and check that the rotor (7) is centered in the caliper (11). Add or subtract .016” shims (5) as necessary between the bracket (1) and the spindle to center the caliper (11).

• Remove the caliper quick-clip pad retainer from the caliper. Remove the protective material from the adhesive side of the anti-squeal shims (9) and place against the backing plate side of the brake pads (6) utilizing the contour of the backing plate as a guide. Secure material to backing plate by bending the four tabs over the edge of the backing plate. Slide the brake pads (6) with the shims into place. They should install easily without interference. Check that the outside radius of the brake pad is aligned with the outside diameter radius of the rotor face. Add or subtract shims (15) between the caliper and mount bracket to gain the proper alignment. Reinstall the quick-clip pad retainer.

• Remove the wheel bolts that were holding the hat in place. Install the wheel. Check to see that the wheel rotates freely without interference.

• Once all clearances have been checked, remove the wheel, caliper, hat, and rotor from the spindle and hub. Secure the caliper mounting bracket (1) to the spindle with bolt (3) using red Loctite® 271. Torque the bolts to 60 ft-lbs. Reinstall the hat and rotor assembly and again use several wheel bolts to hold it in place. Reinstall the caliper and torque the caliper nuts (12) to 30 ft-lb.

• NOTE: OEM rubber brake hoses generally cannot be adapted to Wilwood calipers. 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 lines to prevent contact with moving suspension, brake or wheel components. 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. Wilwood offers a hose kit, P/N 220-8491, which includes hoses, fittings, etc., all in one package for this application.

• 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.

• 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 a interval relative to the usage of vehicle.

• Bleed the brake system. Reference the general information and recommendations on page 5 for proper bleeding instructions.

• Remove the wheel bolts that were used to hold the rotor/hat assembly in place during caliper installation. Install the wheel and wheel bolts, torque to OEM specifications.

• Repeat the entire procedure for the other wheel.

• Bed-in the brake pads per the procedure on page 6.
**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.

Please read the following concerning balancing the brake bias on 4 wheel disc vehicles.

**OE Style or Single Mount Race Pedal with Tandem Outlet Master Cylinder:**
Front to rear caliper piston sizes, rotor diameters, and pad compounds must be initially configured to provide the correct range of vehicle bias when using a single bore / tandem outlet master cylinder. If excessive rear brake bias is experienced, an inline adjustable proportioning valve can be used to decrease the rear line pressure to help bring the vehicle into balance. If excessive front brake bias is experienced, first consideration should be given to increasing the rear brake bias to bring the vehicle into overall balance.

**Race Pedal with Dual Master Cylinders and Balance Bar:**
Master cylinders must be sized to match the calipers and allow the pedal balance bar to operate near the center of its travel. If it is not possible to fine tune the bias within the adjustable range of the balance bar, then consideration must be given to changing a master cylinder bore size or some other aspect of the brake system to bring the car into balance. Larger bore master cylinders will generate less pressure while decreasing pedal travel. Smaller bores master cylinders will generate higher line pressures with an increase in pedal travel.

**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.**

**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 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, either air may be trapped in the system, or a master cylinder with increased capacity (larger bore diameter) may be required. Wilwood offers various lightweight master cylinders with large fluid displacement capacities (custom fabricated mounting may be required).
Brake Testing

WARNING • DO NOT DRIVE ON UNTESTESTED BRAKES
BRAKES MUST BE TESTED AFTER INSTALLATION OR MAINTENANCE
MINIMUM TEST PROCEDURE

• Make sure pedal is firm: Hold firm pressure on pedal for several minutes, it should remain in position without sinking. If pedal sinks toward floor, check system for fluid leaks. DO NOT drive vehicle if pedal does not stay firm or can be pushed to the floor with normal pressure.

• At very low speed (2-5 mph) apply brakes hard several times while turning steering from full left to full right, repeat several times. Remove the wheels and check that components are not touching, rubbing, or leaking.

• Carefully examine all brake components, brake lines, and fittings for leaks and interference.

• Make sure there is no interference with wheels or suspension components.

• Drive vehicle at low speed (15-20 mph) making moderate and hard stops. Brakes should feel normal and positive. Again check for leaks and interference.

• Always test vehicle in a safe place where there is no danger to (or from) other people or vehicles.

• Always wear seat belts and make use of all safety equipment.

Pad and Rotor Bedding

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.

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.
### Pad and Rotor Bedding (Continued)

#### 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.

### Connect with Wilwood

[Wilwood Facebook](https://www.facebook.com/wilwoodbrakes)  [Wilwood Instagram](https://www.instagram.com/wilwoodbrakes)  [Wilwood Twitter](https://twitter.com/WilwoodBrakes)  [Wilwood YouTube](https://www.youtube.com/wilwoodbrakes)

### Associated Components

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<th>PART NO.</th>
<th>DESCRIPTION</th>
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<td>260-13706</td>
<td>Wilwood Residual Pressure Valve (2 lb for disc brakes)</td>
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<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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<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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