



# 2002-2010 MINI COOPER DYNAPRO BIG BRAKE FRONT HAT KIT

## Models Covered:

BMW Mini Cooper	2002-2010
BMW Mini Cooper "S"	2002-2010

## Kit Features:

- Full bolt-on installation
- Compatible with OE master cylinder output and ABS
- Use as-is with aftermarket, deep offset 16" or larger wheels
- Requires 1/8" thick wheel spacer to use OE 16" wheels

## Component Features:

### DynaPro Four Piston Radial Mount Calipers

- Rigid FEA designed billet body provides maximum clamping efficiency and unyielding pedal response by eliminating fluid volume displacement loss from structural deflection at the high output pressures generated by power brake master cylinders
- Four piston design generates high clamping force with balanced pad loading.
- Quick-Clip pad retainers allow fast and easy pad service without caliper removal.
- Spring loaded stainless steel SRS bridge plates reduce noise by damping engagement harmonics and stopping pad rattle. Bridge wear from gouging at the pad trailing edge is also eliminated.
- Internal fluid passages prevent all potential problems associated with external fluid transfer tubes.
- Four corner bleed screws accommodate effective gas evacuation regardless of mounting position.
- Radial mounting provides solid attachment with two planes of adjustment for precise alignment and simplified caliper service in the field.



BMW Mini Cooper Big Brake  
Front Kit

### SRP or HP Series 12.19" Diameter Rotors

- Increased diameter multiplies stopping leverage over OE diameter rotors.
- 32 vane vented iron design provides high cooling efficiency.
- SRP Series rotors are e-coated to resist corrosion and feature an engineered directional drill and slot pattern for an aggressive high tech appearance inside the wheel. The holes and slots enhance pad performance by reducing pad glazing and dispersing the gasses and some of heat generated during braking.
- HP series full surface rotors are precision machined at less than .001" for total parallelism, flatness, and run-out. This non-drilled version carries additional mass for increased thermal stability in sustained heat competition.

### Forged Aluminum Rotor Mounting Hats

- Premium grade alloy forged aluminum hats are lightweight and provide sturdy mounting of the vented iron rotors over the OE hub assembly.
- High luster black anodized finish resists corrosion and enhances the custom appearance inside the wheel.

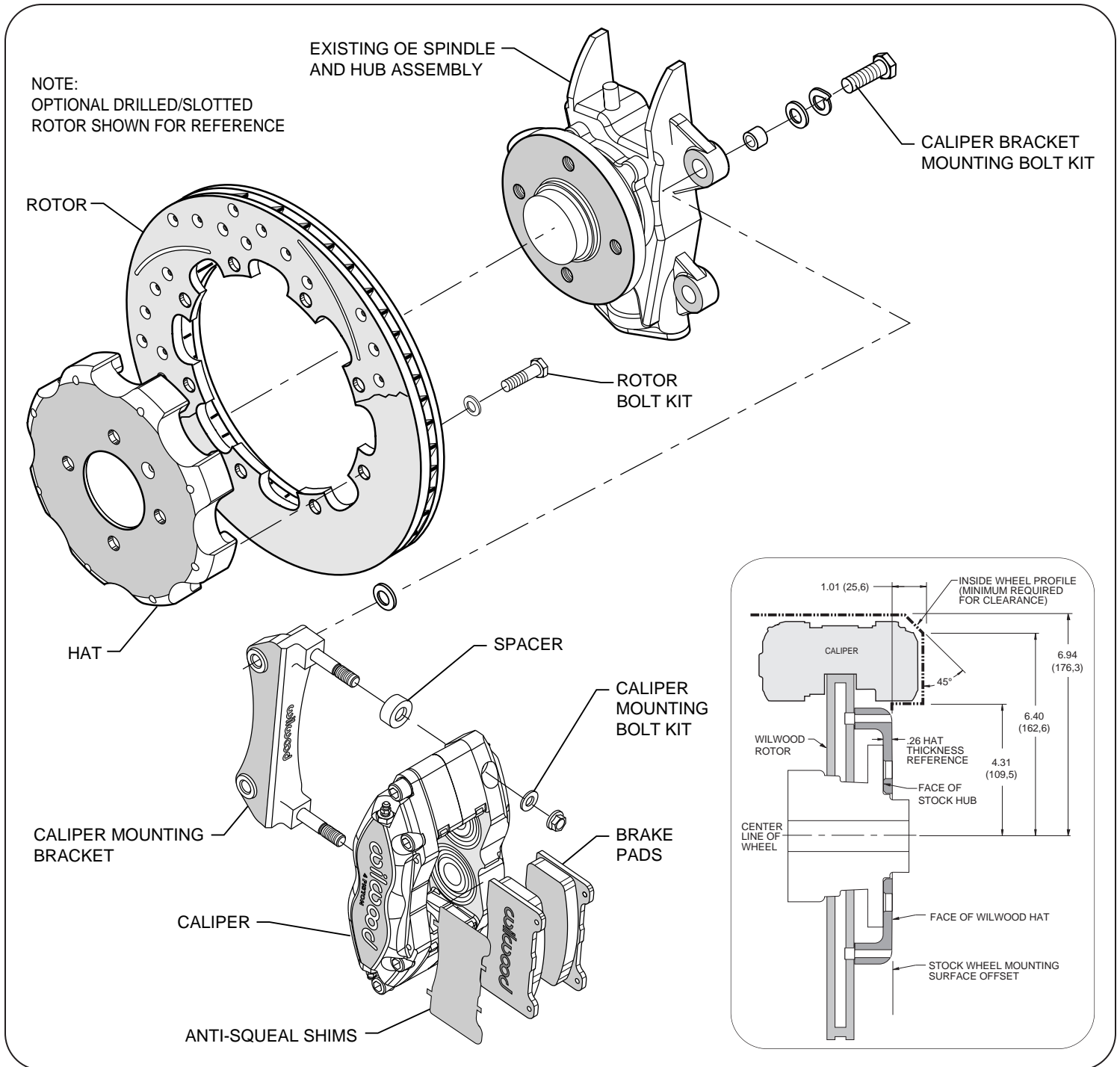
### BP-10 Brake Pads with Noise Suppression Shims

- Each kit includes BP-10 compound "Smart Pads". BP-10 is a unique metallic composite compound that delivers quiet, low dust performance, but with the improve response, friction, and temperature range of a semi-metallic style pad.
- Viscoelastic multi-layered noise suppression shims provide additional damping of harmonic or resonant vibrations that generate pad squeal.

### Mounting Hardware and Plumbing

- Machined billet radial mount brackets with all necessary high strength fasteners, washers, and alignment shims are included with each kit
- Optional flex line kits include stainless steel reinforced hoses with machine crimped ends and the fittings necessary to connect the calipers to the OE brake line fitting at the chassis. Flex line kits must be ordered separately.

Please check the diagram on the back of this page for minimum inside wheel clearance requirements 4



Typical Installation Diagram, Major Components Identified. Minimum Wheel Fit Dimensions Shown Inset

**ORDERING INFORMATION:**

**PART NUMBER**

**DESCRIPTION**

140-8528	Front Brake Kit, Mini Cooper, DynaPro Caliper, 12.19" HP Rotor
140-8528-D	Front Brake Kit, Mini Cooper, DynaPro Caliper, 12.19" SRP Drilled and Slotted Rotor
140-8528-R	Front Brake Kit, Mini Cooper, DynaPro Caliper, 12.19" HP Rotor, Red Caliper
140-8528-DR	Front Brake Kit, Mini Cooper, DynaPro Caliper, 12.19" SRP Drilled and Slotted Rotor, Red Caliper