

ASSEMBLY INSTRUCTIONS

FOR

2024 CAN AM MAVERICK (6-LUG)*

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

NARROW DYNAPRO 4R REAR BRAKE KIT WITH 11.60" DIAMETER DYNAMIC MOUNT LUG-DRIVE NON-VENTED ROTORS

BASE PART NUMBERS

•**140-17947**

•**140-18029** (RACE KIT)

**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.

DISC BRAKES
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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.



PART NUMBERS

140-17947
140-18029

INSTRUCTIONS

1. Ensure this template is printed to scale shown. If not, search www.wilwood.com for the kit part number and click on the Wheel Clearance Diagram for a printable 1:1 scaled tool. Adjust print scale percentage if necessary.
2. Adhere template to a piece of cardboard or sturdy construction paper.
3. Measure wheel center hole diameter. Find corresponding measurement shown in **Wheel Center Hole Diameter Chart**. Cut template following the bold, dashed lines.
4. Fit template into wheel and determine if adequate clearance is present. A minimum of .080" clearance must be maintained between the wheel and caliper in all areas.
5. Minimum wheel center hole diameter is **3.15"**.

NOTE: Actual parts may vary. Use this template as a guideline to determine your wheel clearance before attempting installation.

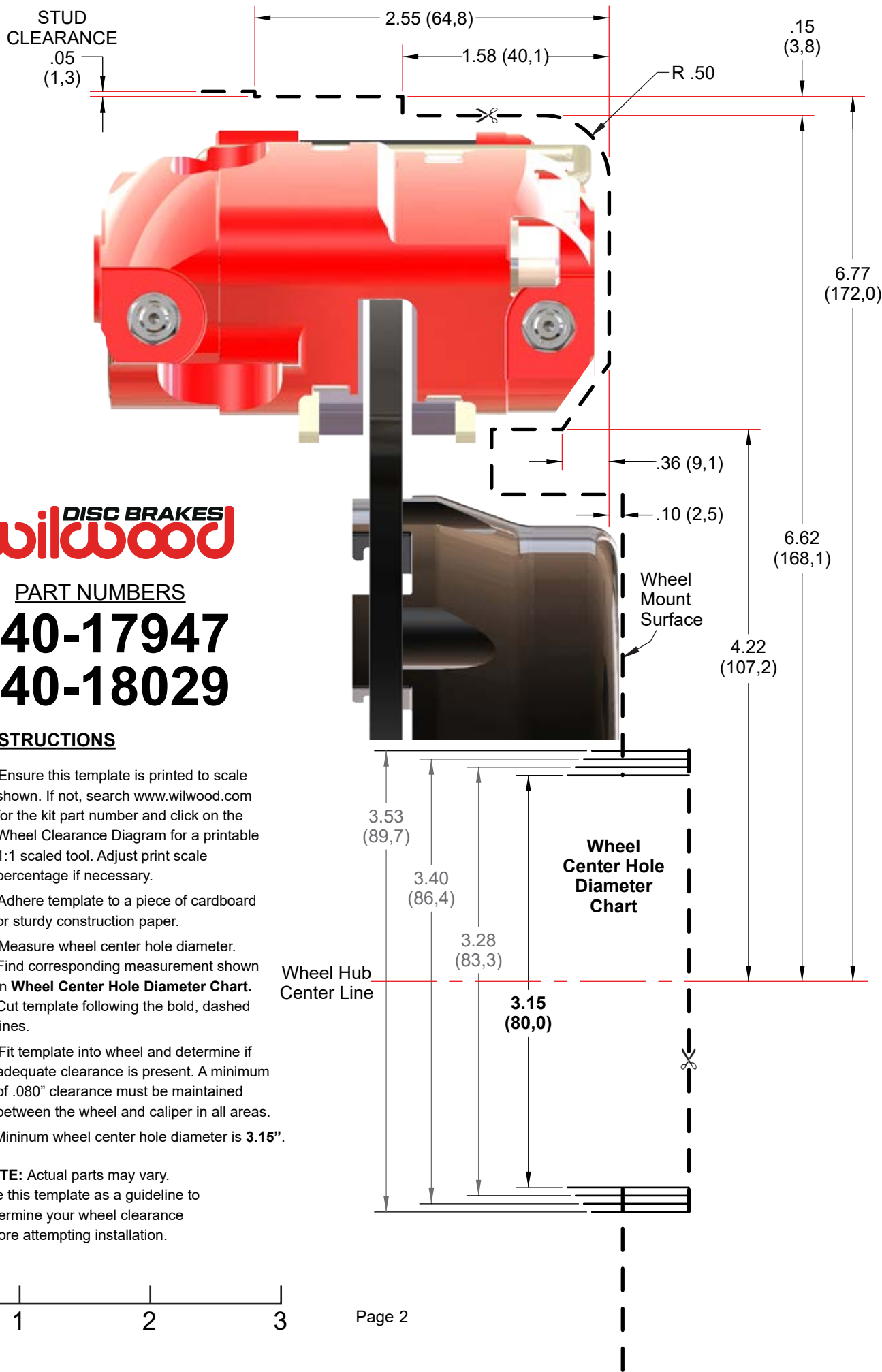
SCALE

INCH

1

2

3



Exploded Assembly Diagram

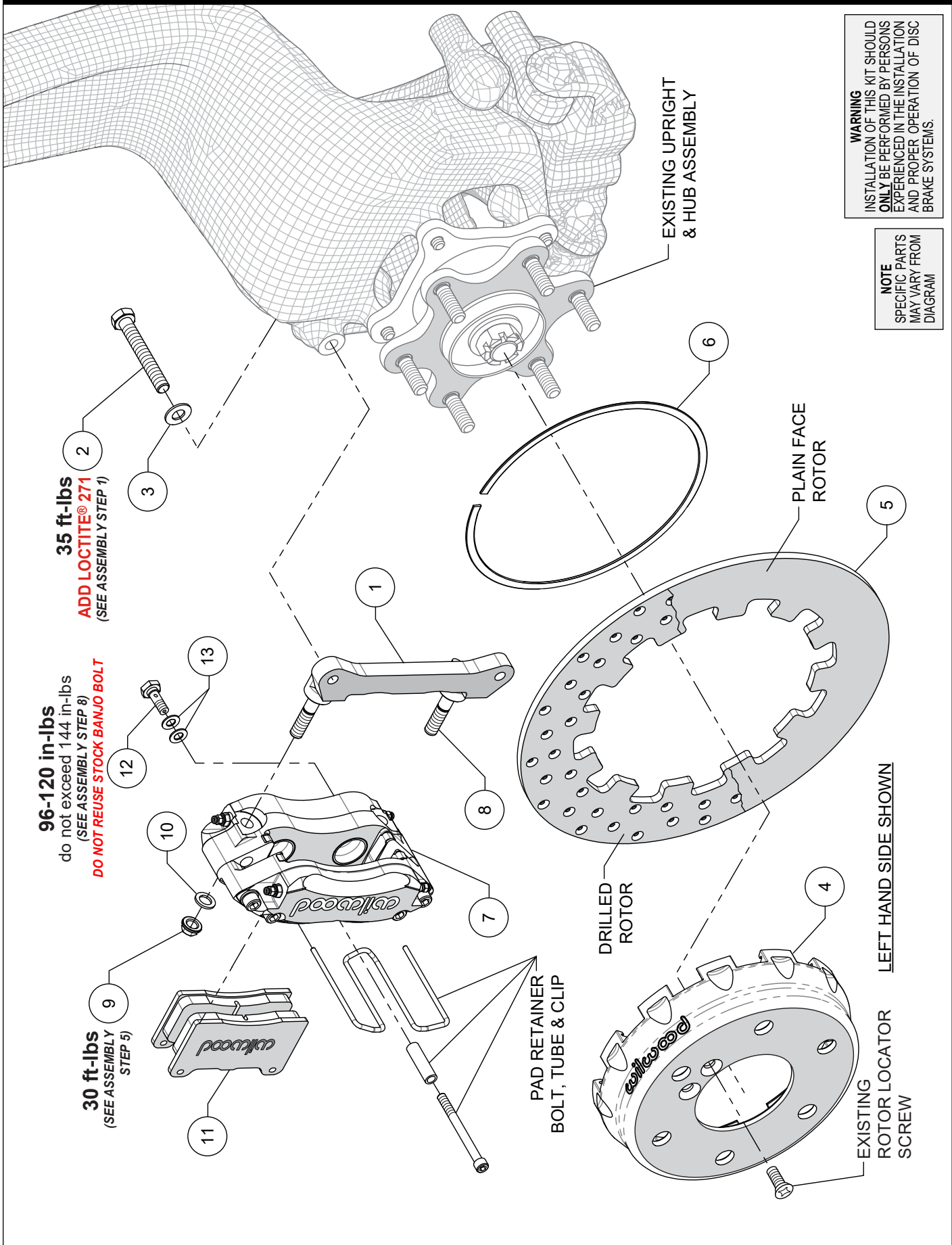


Figure 1. Typical Installation Configuration

Important Notice - Read This First

Wilwood Disc Brake components and complete brake kits are designed for factory, un-modified vehicles, as a direct bolt-on system with little or no alterations to be made to factory component designs. When adding aftermarket components such as hubs, spindles/uprights, suspension, brake lines and wheels, fitment of the Wilwood components must be verified by the installer through the full range articulation of the suspension. Failure to do so may result in damage to the vehicle and/or the Wilwood Disc Brake kit.

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

- **Important:** Before assembling this kit, see “Modification Instructions” on page 5 for information on removing the OEM rock guard for proper brake kit mounting.
- Review the Wheel Clearance Diagram on page 2 to verify that there is adequate clearance with the wheels you will be using with the installation.
- 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.

Parts List

ITEM NO.	PART NO.	DESCRIPTION	QTY
1	250-18142	Bracket, Caliper Mounting	2
2	230-17872	Bolt, M10-1.50 x 65mm Long, Hex Head	4
3	240-17663	Washer, M10, 18mm O.D. x 1.6mm Thick	4
4	170-18213	Hat, 6 x 5.50" Stud Pattern, 1.21" Offset, Dynamic Mount	2
5	160-17942	Rotor, 0.25" Thick x 11.60" Diameter, Dynamic Mount	2
5A	160-17945	Rotor, Drilled (option for p/n 140-17947)	2
6	310-14889	Snap Ring, 7.77" Diameter	2
7	120-18086	Caliper, NDPR, Anodized (included w/ p/n 140-18029)	2
7	120-18086-BK	Caliper, NDPR, Black (included w/ p/n 140-17947)	2
7A	120-18086-RD	Caliper, NDPR, Red (option for p/n 140-17947)	2
8	230-9078	Stud, 3/8-16 x 3/8-24 x 2.50" long (pre installed in bracket)	4
9	230-16550	Nut, 3/8-24, Self-Locking, 6 Point Hex	4
10	240-10190	Washer, .391" I.D. x .625" O.D. x .063" Thick	4
11	150-20-7812K	Pad, BP-20 Compound, Axle Set (included w/ p/n 140-17947)	1
11	150-28-7812K	Pad, BP-28 Compound, Axle Set (included w/ p/n 140-18029)	1
12	230-16715	Bolt, Banjo, M10-1.25 x 20mm	2
13	240-5227	Washer, Copper, Crush, .406" I.D. x .625" O.D. x .063" Thick	4

NOTES:

Part Number 230-17964 Bracket Bolt Kit, includes p/ns 230-17872 and 240-17663

Part Number 250-18143 Caliper Mounting Kit, includes p/ns 230-9078, 230-16550, 240-10190, and 250-18142

Item 5A is an optional item for p/n 140-17947, included with the “-D” drilled rotor kits. Add “-D” to end of part number when ordering.

Item 7A is an optional item for p/n 140-17947, included with the “-R” red caliper kits. Add “-R” to end of part number when ordering.

Modification Instructions

•**NOTE:** Removal of the rock guard is required for proper fitment of new rotor. The new Wilwood rotor is a larger diameter than the OEM rotor and requires the removal of the OEM rock guard for clearance. See Photos A and B at right for reference.



Photo A



Photo B

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.

Make sure this is the correct kit to fit the exact make and model year of your vehicle. This rear kit is designed for direct bolt-on installation to 2024 model year Can Am Maverick (6-lug).

Verify that the factory axle hub center register diameter and lug pattern match those in the new hat. **NOTE:** Axle 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.

Verify your wheel clearance using the diagram on page 2.

Inspect the contents of this kit against the parts list to ensure that all components and hardware are included.

Assembly Instructions

NOTE: Numbers in parenthesis refer to the parts list and Figure 1 on the preceding pages.

STEP 1 The caliper mount bracket (1) should initially be installed with clean, dry threads on the mounting bolts. Orient the bracket, as shown in Figure 1 and Photo 1, and install using bolts (2) and washers (3). 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 the bracket mounting bolts (2) one at a time, apply red Loctite® 271 to the threads, and torque to value shown in Figure 1.

STEP 2 Position the rotor (5) onto the hat (4), making sure the rotor lugs fit into the recesses of the hat, as shown in Photo 2.

STEP 3 Secure rotor to the hat using the snap ring (6) by installing the ring into the groove in the hat, as shown in Photos 3 and 4. **Carefully inspect snap ring to ensure complete engagement in the groove.**

STEP 4 Slide the hat/rotor (4/5) assembly onto the axle hub. **NOTE:** The hat must fit flush against the axle hub flange or

Disassembly Instructions

•Disassemble the original equipment rear brakes:

Raise the rear wheels off the ground and support the rear suspension according to the vehicle manufacturer's instructions.

Remove the rear wheels, calipers and rotors.

•Remove any nicks or burrs on the axle hub and upright that may interfere with the installation of the new brake components.

•Clean and de-grease the axle hub and upright.

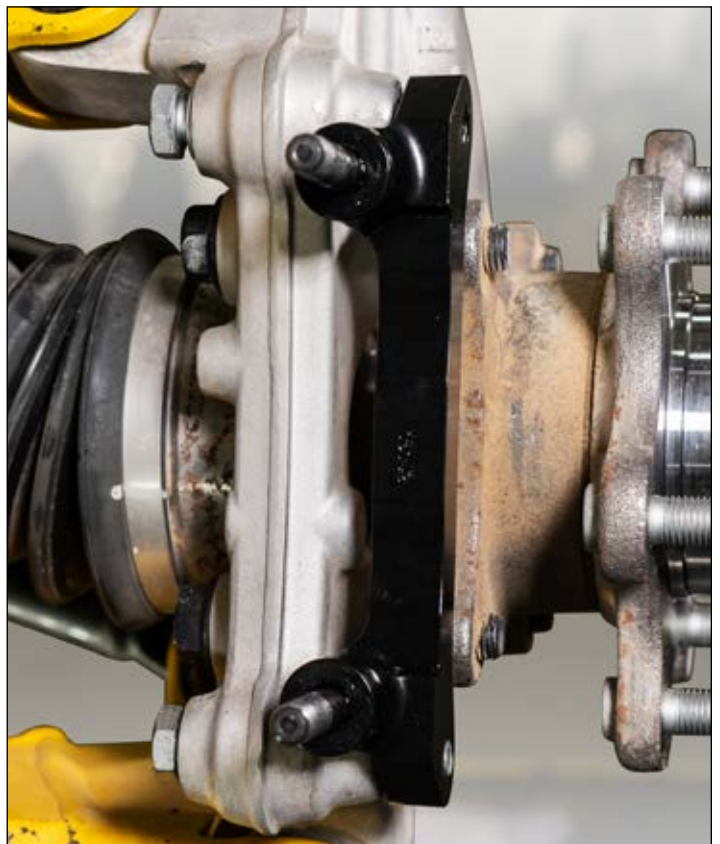


Photo 1

Assembly Instructions (Continued)

excessive rotor run out may result. Install the existing rotor locator screw to keep the hat/rotor assembly in place while continuing with the installation, Figure 1 and Photo 5.

STEP 5 Mount the caliper (7) onto the caliper bracket studs (8) using lock nuts (9) and washers (10), Figure 1. Torque lock nuts (9) to value shown in Figure 1.

STEP 6 Remove the pad retainer bolt, tube, and clip from the caliper (7), Figure 1. Insert the brake pads (11) into the caliper with the friction material facing the rotor, as shown in Photo 6. Secure the pads in place using the pad clip retainer as well as the pad retainer tube and bolt, Photo 7. The bolt should be snug without play in the tube. Be cautious not to over tighten.

STEP 7 Temporarily install the wheel and torque the lug nuts to the manufacturer's specification. Ensure that the wheel rotates freely without any interference. Remove wheel for next step.

•NOTE: The caliper in this brake kit utilizes a 10mm x 1.25 thread inlet, **NOT** the same as the Original Equipment Manufacturer (OEM) caliper thread inlet (10mm x 1.00). The new banjo bolt supplied with this kit must be used.

STEP 8 Attach brake line to caliper. Connect OEM brake line to caliper using banjo bolt (12) and crush washers (13), Photo 8. Do not use lubricant or thread sealant on banjo bolt (12). Torque to minimum value shown in Figure 1. Check for leakage, increasing torque only to stop leakage without exceeding maximum specification. Replace crush washers and banjo bolt whenever reassembly is required. **Ensure hoses are routed to prevent contact with moving suspension, brake or wheel components.**

•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. It is the installer's responsibility to ensure that all fittings and hoses are the correct size and length, properly seal, and that they will not be subject to crimping, strain and abrasion from vibration or interference with suspension components, brake rotor or wheel.

STEP 9 Bleed the brake system, referring to the 'Additional Information and Recommendations' on page 7 for proper bleeding instructions. Check system for leaks after bleeding.

STEP 10 Install the wheel and torque the lug nuts to manufacturer's specifications.

•CAUTION: 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 11 Bed-in the brake pads per the procedure on last page of this document.



Photo 2

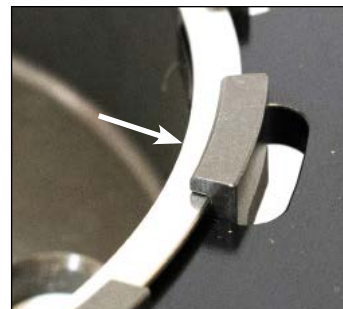


Photo 3



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8

Additional Information and Recommendations

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

This 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.

- 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. **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 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) may 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.*

- If after following the instructions, you still have difficulty in assembling or bleeding your Wilwood disc brakes, consult your local chassis builder, or retailer where the kit was purchased for further assistance.

Brake Testing

WARNING • DO NOT DRIVE ON UNTESTED 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.

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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