ASSEMBLY INSTRUCTIONS
FOR
2020-PRESENT POLARIS RZR PRO XP1000*
*For additional vehicle compatibility, visit www.wilwood.com

UTV6 REAR BRAKE KIT WITH
11.25” DIAMETER DYNAMIC MOUNT LUG-DRIVE NON-VENTED ROTORS
BASE PART NUMBER
140-17280

OR

UTV6 REAR RACE BRAKE KIT WITH 11.25” DIAMETER DYNAMIC MOUNT LUG-DRIVE NON-VENTED ROTORS
BASE PART NUMBER
140-17323

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.
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**: This Wilwood brake kit is designed to work with stock OEM wheel studs. The use of aftermarket wheel studs may not work with this kit.
- 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 flexlines.
- 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
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:

1. Inspect the contents of this kit against the parts list to ensure that all components and hardware are included.
2. Make sure this is the correct kit to fit the exact make and model year of your vehicle. This kit is designed for direct bolt-on installation to 2020-present model year Polaris RZR Pro XP.
3. Verify your wheel clearance using Figure 2.
4. Verify that the existing OEM wheel hub bolt pattern match those of the Wilwood rotor adapter.

NOTES:
Part Number 230-17309 Bracket/Spindle Mounting Bolt Kit, includes p/ns 230-12074, 230-17308, & 240-17663
Part Number 230-17311 Caliper Mounting Bolt Kit, includes p/ns 230-17310

Item 2A is an optional item and is included in the "-D" drilled rotor kits. Add "-D" to end of part number when ordering

Item 9A is an optional item and is included with the "-R" red caliper kits. Add "-R" to the end of the part number when ordering

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.

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:

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- Make sure this is the correct kit to fit the exact make and model year of your vehicle. This kit is designed for direct bolt-on installation to 2020-present model year Polaris RZR Pro XP.
- Verify your wheel clearance using Figure 2.
- Verify that the existing OEM wheel hub bolt pattern match those of the Wilwood rotor adapter.

### 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>300-16590</td>
<td>Adapter, Rotor, 4 x 6.14&quot; Bolt Circle</td>
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<td>Bolt, M10-1.50 x 60mm, Flat Head</td>
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<td>6</td>
<td>240-17663</td>
<td>Washer, 10mm I.D. x 18mm O.D. x 1.6mm Thick</td>
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<td>Cotter Pin</td>
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<td>Bolt, Banjo, M10-1.25 x 20mm</td>
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<td>13</td>
<td>240-5227</td>
<td>Washer, Copper, Crush, .406&quot; I.D. x .625&quot; O.D. x .063&quot; Thick</td>
<td>4</td>
</tr>
</tbody>
</table>

NOTES:
Part Number 230-17309 Bracket/Spindle Mounting Bolt Kit, includes p/ns 230-12074, 230-17308, & 240-17663
Part Number 230-17311 Caliper Mounting Bolt Kit, includes p/ns 230-17310

Figure 2. Wheel Clearance Diagram
**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, wheel hubs, and rotors.

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

• Clean and de-grease the wheel hub, and upright.

**Assembly Instructions**

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

**STEP 1** Press the OEM wheel studs from the wheel hub. **IMPORTANT:** Wheel studs will be reused in the following step. This Wilwood brake kit is designed to work with stock OEM wheel studs. The use of aftermarket wheel studs may not work with this kit.

**STEP 2** Place the existing OEM wheel hub face down and position the rotor adapter (1) onto the wheel hub as shown in Photo 1. **NOTE:** The existing wheel hub must be free of dirt and debris or excessive rotor run out may result. Press the OEM wheel studs back in through the rotor adapter and OEM wheel hub.

**STEP 3** Position the rotor (2) onto the rotor adapter (1), making sure the rotor lugs fit into the recesses of the rotor adapter, as shown in Photo 2.

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

**STEP 5** Orient the caliper mounting bracket (4), as shown in Figure 1 and Photos 5 and 6. Install using bolts (5), washers (6), and nuts (7). Torque lock nut to value shown in Figure 1.

**STEP 6** Grease the splines and outer snout of the existing wheel hub with high temperature grease and slide the wheel hub/rotor assembly onto the axle, Photo 7. Attach using the existing OEM washer and castle nut. Tighten to OEM specifications and secure using cotter pin (8), Photo 8.

**STEP 7** Secure the caliper (9) to mounting bracket (4) using bolts (10), Figure 1. **NOTE:** To properly access and torque the lower caliper mounting bolt, the nut and bolt that secures the lower suspension arm to the upright must be removed, allowing the suspension arm to be lowered out of the way, Photo 9. Apply red Loctite® 271 to the bolt threads (10), and torque to value shown in Figure 1.

**STEP 8** Remove the pad retainer clip from the caliper (9). Insert the brake pads (11) into the caliper with the friction material facing the rotor, as shown in Photo 10. Reinstall the pad retainer clip, Photo 11.
STEP 9 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 fluid 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 10 Attach brake line to caliper. Orient brake line as shown in Photo 11 and connect to caliper using banjo bolt (12) and crush washers (13). 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 properly route and provide adequate clearance and retention for brake hose components.

It is also 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.
Assembly Instructions (Continued)

**STEP 11** Bleed the brake system, referring to the ‘Additional Information and Recommendations’ below for proper bleeding instructions. Check system for leaks after bleeding.

**STEP 12** 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 13** Bed-in the brake pads per the procedure on page 7.

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Additional Information and Recommendations

- First, reference the manufacturer’s service manual for the proper flushing and bleeding procedures for your vehicle, and then consult the additional information and recommendations below for proper bleeding instructions.

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

This Polaris RZR UTV 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, EXP 600 Plus, or XR Race-Only brake fluid. For severe braking or sustained high heat operation, use Wilwood EXP 600 Plus Racing Brake Fluid. For extreme braking temperatures of endurance racing, use Wilwood XR Race-Only Brake Fluid (not DOT approved, off-highway use only). 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.

- **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.

- 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 mark et disc brakes, the wheel track may change depending on the application. Check your wheel offset before final assembly.
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.

•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.

For 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.

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 (Continued)

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

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Associated Components

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<th>PART NO.</th>
<th>DESCRIPTION</th>
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<tr>
<td>290-0632</td>
<td>Wilwood Racing Brake Fluid (Hi-Temp° 570) (12 oz)</td>
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<td>290-6209</td>
<td>Wilwood Racing Brake Fluid (EXP 600 Plus) (16.9 oz)</td>
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<td>260-16018</td>
<td>Wilwood Brake Bleed Bottle, with Tubing</td>
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<td>260-0627</td>
<td>Wilwood Bleed Screw Kit, 1/8-27 Fitting Size, 4 Pack</td>
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<td>150-9136K</td>
<td>BP-10 Performance Racing Brake Pads • Baseline Pad for Track Oriented UTVs</td>
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<td>BP-28 Performance Racing Brake Pads</td>
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