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Power Stop L6041

Power Stop L6041 Front Left Stock Replacement Brake Caliper User Manual

For Lexus GS300 (2006) and Lexus IS250 (2009-2015)

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Power Stop L6041 Front Left Stock Replacement Brake Caliper. This caliper is designed as a direct bolt-on replacement for specific Lexus models, ensuring compatibility and performance.

Applicable Vehicles:

- Lexus GS300 (2006)
- Lexus IS250 (2009-2015)

Important: Always refer to your vehicle's specific service manual for detailed procedures and safety precautions before beginning any automotive work.

2. What's in the Box

Upon unpacking, please verify that all components are present and undamaged:

- One (1) Power Stop L6041 Front Left Brake Caliper
- All necessary brake caliper hardware, including:
  - Seals
  - Caliper guide pins
  - Dust boots
  - Bleeder screws
  - Brake pad attachment hardware
  - Mounting brackets

Image 1: Power Stop L6041 Front Left Brake Caliper. This image shows the complete caliper assembly, ready for installation.

Image 2: Power Stop L6041 Brake Caliper with included hardware. This view displays the caliper alongside the seals, guide pins, dust boots, bleeder screws, and mounting brackets.

3. Safety Information

Working on vehicle brake systems requires specialized knowledge and tools. Improper installation or maintenance can lead to brake failure, serious injury, or death. If you are not confident in your ability to perform this installation safely, seek assistance from a qualified automotive technician.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands on a level surface before working underneath it.
- Never rely solely on a jack to support the vehicle.
- Keep brake fluid away from painted surfaces, as it can damage paint.
- Dispose of old brake fluid and components responsibly according to local regulations.
- Do not reuse old brake fluid.

4. Setup and Installation

This section outlines the general steps for replacing a front left brake caliper. Always consult your vehicle's specific service manual for precise torque specifications and detailed procedures.

4.1 Tools and Materials Required (Not Included)

- Vehicle service manual
- Jack and jack stands
- Wheel lug wrench
- Socket set and wrenches
- Brake cleaner
- Wire brush
- Torque wrench
- Brake fluid (DOT 3 or DOT 4, as specified by your vehicle manufacturer)
- Brake bleeder kit or vacuum pump
- Drain pan for brake fluid
- New brake pads (recommended)

4.2 Installation Steps

1. **Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and block the rear wheels. Loosen the front left lug nuts, then raise the vehicle and secure it on jack stands. Remove the front left wheel.
2. **Remove Old Caliper:**
    - Place a drain pan beneath the caliper to catch brake fluid.
    - Disconnect the brake line from the old caliper. Be prepared for fluid leakage.
    - Remove the two caliper mounting bolts.
    - Carefully remove the old caliper from the rotor and set it aside.

3. **Prepare for New Caliper:**
    - Clean the caliper mounting bracket and hub area with a wire brush and brake cleaner.
    - Ensure the new caliper's guide pins are clean and properly lubricated with appropriate brake lubricant (not included).
4. **Install New Caliper:**
    - Position the new Power Stop L6041 caliper over the rotor.
    - Install the two caliper mounting bolts and tighten them to the torque specifications provided in your vehicle's service manual.
    - Connect the brake line to the new caliper. Ensure a new copper washer is used on each side of the banjo bolt (if applicable) and tighten to specifications.
    - Install new brake pads (if replacing) into the caliper.
5. **Bleed the Brake System:** This is a critical step to remove air from the brake lines.
    - Follow your vehicle's service manual for the correct bleeding sequence (typically starting with the wheel furthest from the master cylinder).
    - With assistance, have someone pump the brake pedal several times and hold it down.
    - Open the bleeder screw on the new caliper until fluid flows out without air bubbles. Close the bleeder screw.
    - Repeat this process until no air bubbles are visible.
    - Maintain the brake fluid reservoir level throughout the bleeding process.
6. **Final Checks:**
    - Check the brake fluid reservoir and fill to the MAX line with the correct type of brake fluid.
    - Inspect all brake line connections for leaks.
    - Reinstall the wheel and tighten lug nuts to factory specifications.
    - Lower the vehicle.

Image 3: A technician performing brake caliper installation. This image illustrates the process of working on the brake assembly, including the caliper and rotor.

5. Operating (Post-Installation)

After installation, it is crucial to perform these steps before driving the vehicle normally:

1. **Pump Brake Pedal:** Before starting the engine, slowly pump the brake pedal several times until a firm pedal is achieved. This will seat the brake pads against the rotor and ensure proper caliper function.
2. **Check Brake Fluid Level:** Re-check the brake fluid reservoir and top off if necessary.
3. **Test Drive (Caution):** Drive the vehicle slowly in a safe, open area. Apply the brakes gently at first to confirm proper operation. Listen for any unusual noises and check for any pulling or spongy pedal feel.
4. **Brake Bedding Procedure:** New brake pads and rotors (if replaced) require a bedding-in process to achieve optimal performance. Follow the bedding procedure recommended by your brake pad manufacturer. A typical procedure involves several moderate stops from 30-40 mph, followed by a few harder stops from 50-60 mph, allowing brakes to cool between runs. Avoid hard braking or prolonged braking immediately after installation.

6. Maintenance

Regular inspection and maintenance of your brake system are vital for safety and longevity.

- **Routine Inspections:** During tire rotations or other vehicle servicing, visually inspect the brake calipers, pads, and rotors for wear, damage, or leaks. Check dust boots for tears.
- **Brake Fluid:** Check brake fluid level regularly and ensure it is clean. Brake fluid should be flushed and replaced according to your vehicle manufacturer's recommendations (typically every 2-3 years).
- **Brake Pads:** Replace brake pads when they reach their minimum thickness specification. Worn pads can damage rotors and reduce braking effectiveness.
- **Caliper Guide Pins:** Ensure guide pins are clean and properly lubricated to allow the caliper to float freely.

7. Troubleshooting

If you experience any issues with your brake system after caliper replacement, consider the following common problems and solutions:

Symptom	Possible Cause	Solution
Spongy or Soft Brake Pedal	Air in the brake lines; low brake fluid.	Re-bleed the brake system thoroughly; check and top off brake fluid.
Brakes Pull to One Side	Uneven brake pad wear; sticking caliper guide pins; contaminated brake pads.	Inspect pads and guide pins; clean and lubricate guide pins; replace contaminated pads.
Brake Noise (Squealing/Grinding)	New pads not bedded in; worn pads; foreign object; improper installation.	Perform bedding procedure; inspect pads for wear; check for debris; verify proper installation.
Brake Fluid Leak	Loose brake line fitting; damaged seal; faulty bleeder screw.	Tighten fittings; inspect and replace seals/bleeder screw if damaged.

If troubleshooting steps do not resolve the issue, consult a qualified automotive technician.

8. Specifications

Feature	Detail
Brand	Power Stop
Model Number	L6041
Product Type	Stock Replacement Brake Caliper
Position	Front Left
Compatibility	Lexus GS300 (2006), Lexus IS250 (2009-2015)
Item Weight	12.54 pounds
Product Dimensions	8.3 x 6.2 x 4.3 inches
Testing	100% pressure tested and inspected for performance

9. Warranty and Support

Your Power Stop L6041 Brake Caliper is backed by a **90-day / 3,000 miles warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical assistance, or further support, please contact Power Stop customer service or refer to the official Power Stop website.

Power Stop Official Website: www.powerstop.com

For general inquiries or to explore other Power Stop products, visit the Power Stop Store on Amazon.

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