

Pro-Cut 50-691

Pro-Cut 50-691 4WD Direct FIT Adapter Instruction Manual

For On-Car Brake Lathes on 1/2 Ton 4WD Trucks

1. INTRODUCTION

The Pro-Cut 50-691 4WD Direct FIT Adapter is an essential accessory designed to expand the capabilities of your PRO-CUT on-car brake lathe. This adapter facilitates efficient and precise brake rotor resurfacing for a wide range of 1/2-ton 4WD trucks, directly on the vehicle. It is engineered for professional use in automotive service environments, ensuring compatibility and reliable performance.

This manual provides detailed instructions for the safe and effective use, setup, operation, and maintenance of your Pro-Cut 50-691 adapter.

2. SAFETY INFORMATION

Always prioritize safety when working with automotive tools and machinery. Adhere to all workshop safety protocols and wear appropriate personal protective equipment (PPE), including safety glasses and gloves.

- **Read all instructions:** Before using the adapter, thoroughly read and understand this manual and your PRO-CUT brake lathe's operating instructions.
- **Proper training:** Ensure all operators are properly trained in the use of on-car brake lathes and this adapter.
- **Vehicle stability:** Always ensure the vehicle is securely lifted and supported on appropriate stands before beginning any work.
- **Tool compatibility:** Use only with PRO-CUT on-car brake lathes.
- **WARNING: DO NOT USE IMPACT TOOLS** for installation or removal of the adapter or any associated components. Impact tools can cause damage to the adapter, lathe, or vehicle components, and may lead to injury.
- **Inspect equipment:** Before each use, inspect the adapter and lathe for any signs of wear, damage, or defects. Do not use damaged equipment.
- **Cleanliness:** Keep the work area clean and free of debris.

3. PRODUCT OVERVIEW

The Pro-Cut 50-691 adapter is a precision-machined component designed for direct fitment onto various 1/2-ton

4WD truck hubs. Its robust construction ensures stability and accuracy during the rotor resurfacing process.



Figure 1: Pro-Cut 50-691 4WD Direct FIT Adapter. This image displays the top view of the adapter, highlighting the central blue hub labeled '4WD DIRECT FIT ADAPTER 50-691'. The outer ring features various lug patterns and is inscribed with 'PRO-CUT INTERNATIONAL', 'www.procutusa.com', '1-800-543-6618', and a critical safety warning: 'USE NO IMPACT TOOLS'. Markings for 4, 5, and 6 lug patterns are also visible.

Key Features:

- Compatible with PRO-CUT on-car brake lathes for 1/2-ton 4WD truck service.
- Accommodates multiple lug patterns: 4 on 5.5", 5 on 135mm, 5 on 5.5", and 6 on 5.5".
- Designed for popular domestic 4WD trucks and off-road vehicles.
- Precision fit minimizes vibration during brake resurfacing.
- Heavy-duty construction for professional shop use.

4. SETUP AND INSTALLATION

Proper installation of the 50-691 adapter is crucial for accurate and safe brake resurfacing.

1. Prepare the Vehicle:

- Safely lift the vehicle and secure it on jack stands.
- Remove the wheel and tire assembly from the hub requiring service.
- Clean the hub surface thoroughly, removing any rust, dirt, or debris to ensure a flush mounting surface for the adapter.

2. Select Correct Lug Pattern:

- Identify the lug pattern of the vehicle's hub (e.g., 4 on 5.5", 5 on 135mm, 5 on 5.5", or 6 on 5.5").
- Align the corresponding holes on the 50-691 adapter with the vehicle's wheel studs.

3. Mount the Adapter:

- Carefully slide the 50-691 adapter onto the vehicle's wheel studs.
- Secure the adapter using the appropriate lug nuts or mounting hardware provided with your PRO-CUT lathe.
- **Hand-tighten** all lug nuts evenly. **DO NOT USE IMPACT TOOLS.**
- Torque the lug nuts to the vehicle manufacturer's specifications using a torque wrench. This ensures proper seating and minimizes runout.

4. Attach Brake Lathe:

- Mount your PRO-CUT on-car brake lathe to the 50-691 adapter according to the lathe manufacturer's instructions.
- Ensure the lathe is securely fastened and properly aligned.

5. OPERATING INSTRUCTIONS

Once the 50-691 adapter and brake lathe are securely installed, proceed with rotor resurfacing as follows:

1. Initial Inspection:

- Before starting the lathe, manually rotate the rotor to check for any obstructions or excessive runout.
- Verify that the cutting tools are properly positioned and sharp.

2. Resurfacing Process:

- Follow the specific operating procedures for your PRO-CUT on-car brake lathe.
- Adjust cutting depth and feed rate according to the rotor's condition and manufacturer recommendations.
- The precision fit of the 50-691 adapter helps minimize vibration, contributing to a smooth and consistent rotor finish.

3. Post-Resurfacing:

- After resurfacing, inspect the rotor for proper finish and ensure it meets specifications.
- Clean the rotor thoroughly to remove any metal shavings or debris before reassembling the brake system.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Pro-Cut 50-691 adapter.

- **Cleaning:** After each use, clean the adapter to remove brake dust, metal shavings, and grease. Use a non-corrosive cleaner and a clean cloth.
- **Inspection:** Periodically inspect the adapter for signs of wear, cracks, deformation, or damage to the lug holes. Replace the adapter if any damage is found.
- **Storage:** Store the adapter in a clean, dry environment, protected from extreme temperatures and corrosive substances.
- **Lubrication:** No specific lubrication is required for the adapter itself, but ensure all mating surfaces on the lathe and vehicle hub are clean and free of obstructions.

7. TROUBLESHOOTING

If you encounter issues while using the 50-691 adapter, consider the following common troubleshooting steps:

• Excessive Vibration or Runout:

- Ensure the vehicle hub and adapter mating surfaces are perfectly clean and free of debris.
- Verify that the adapter is correctly seated and all lug nuts are torqued evenly to specifications.
- Check for any damage to the adapter or the vehicle's wheel studs/hub.
- Confirm the brake lathe is properly mounted and balanced.

• Adapter Not Fitting:

- Double-check the vehicle's lug pattern against the adapter's compatibility (4 on 5.5", 5 on 135mm, 5 on

5.5", 6 on 5.5").

- Ensure no foreign objects are obstructing the fitment.

- **Poor Rotor Finish:**

- This is often related to lathe setup, cutting tool condition, or incorrect feed/speed settings. Refer to your PRO-CUT lathe manual.
- Ensure the adapter is securely mounted to eliminate any play.

For persistent issues, contact Pro-Cut International technical support.

8. SPECIFICATIONS

Attribute	Detail
Model Number	50-691
Brand	Pro-Cut
Manufacturer	Pro-Cut International
Compatibility	PRO-CUT on-car brake lathes
Vehicle Type	1/2-ton 4WD trucks, domestic 4WD trucks, off-road vehicles
Lug Patterns Supported	4 on 5.5", 5 on 135mm, 5 on 5.5", 6 on 5.5"
Product Dimensions	9 x 9 x 6 inches
Construction	Heavy-duty, precision-machined materials

9. WARRANTY INFORMATION

Warranty coverage for the Pro-Cut 50-691 4WD Direct FIT Adapter is provided by Pro-Cut International. For detailed information regarding warranty terms, conditions, and registration, please refer to the official Pro-Cut International website or contact their customer service department directly.

It is recommended to retain your proof of purchase for warranty claims.


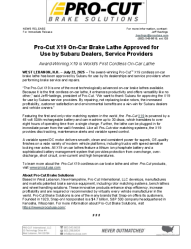
10. SUPPORT AND CONTACT

For technical assistance, product inquiries, or support, please contact Pro-Cut International:

- **Phone:** 1-800-543-6618
- **Website:** www.procutusa.com

Please have your product model number (50-691) available when contacting support.

Related Documents - 50-691

	<p>How to Properly Lubricate Pro-Cut Brake Lathes: Maintenance Guide</p> <p>Pro-Cut International's technical reference guide on the importance and procedure for lubricating brake lathes, ensuring optimal performance, longevity, and precision. Includes steps and recommended lubricant.</p>
	<p>PRO-CUT B17 Quick Start Guide</p> <p>A comprehensive quick start guide for the PRO-CUT B17 brake lathe, detailing setup, installation, and initial testing procedures for optimal performance.</p>
	<p>PRO-CUT KG-32 Meat Grinder: Owner's Manual and Operation Instructions</p> <p>Comprehensive owner's manual and operation instructions for the PRO-CUT KG-32, KG-32-MP, and KG-32-XP meat grinders, covering setup, usage, maintenance, and troubleshooting.</p>
	<p>Pro-Cut X1 HD Brake Lathe: Revolutionizing Industrial Brake Jobs with Speed and Savings</p> <p>Discover how the Pro-Cut X1 HD Brake Lathe significantly reduces downtime and costs for industrial brake jobs, transforming six-hour replacements into 30-minute operations. Learn about its features and benefits for service providers.</p>
	<p>Pro-Cut X19 Cordless On-Car Brake Lathe Earns MOTOR Top 20 Award</p> <p>Pro-Cut Brake Solutions' innovative Pro-Cut X19 cordless on-car brake lathe has been honored with the MOTOR Top 20 Award. Discover its features, benefits for service providers, and company information.</p>
	<p>Pro-Cut X19 On-Car Brake Lathe Approved by Subaru</p> <p>Pro-Cut International announces the Pro-Cut X19 cordless on-car brake lathe has been approved by Subaru for use by its dealerships and service providers, enhancing productivity and offering advanced features for brake service.</p>

