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› Tuff Stuff Power Steering Pump Pulley Instruction Manual

## Tuff Stuff 8488C

# Tuff Stuff Power Steering Pump Pulley

Model: **8488C** | Brand: **Tuff Stuff**

## INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your Tuff Stuff Polished Aluminum Power Steering Pump Pulley. Designed for specific Saginaw style pumps, this high-quality component ensures reliable performance for your vehicle's power steering system. Please read this manual thoroughly before proceeding with installation.

## PRODUCT OVERVIEW AND COMPONENTS

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The Tuff Stuff 8488C pulley is a polished aluminum component designed for durability and performance. It features a key shaft design for secure fitment.



Figure 1: Tuff Stuff Polished Aluminum Power Steering Pump Pulley. This image displays the polished aluminum finish and the central key shaft bore, along with the five weight-reduction holes on the pulley face. The Tuff Stuff logo is visible on the front surface.

### Key Features:

- **Polished Aluminum Construction:** Provides a durable and aesthetically pleasing finish.
- **Vehicle Specific Fitment:** Engineered for precise compatibility with designated power steering pumps.
- **Made in the USA:** Manufactured to high-quality standards.

### SPECIFICATIONS

Attribute	Detail
Brand	Tuff Stuff
Model Number	8488C
Model Name	PLLY P/STR PMP ALUM/
Material	Polished Aluminum
Exterior Finish	Natural
Item Weight	1.38 pounds
Product Dimensions (L x W x H)	7.75 x 6.88 x 7.75 inches
Manufacturer Part Number	8488C

Attribute	Detail
ASIN	B008NF7Q3S
Date First Available	February 9, 2014

## COMPATIBILITY

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This pulley is specifically designed to fit Tuff Stuff Saginaw style power steering pumps with a key shaft. Compatible Tuff Stuff pump models include:

- Tuff Stuff 6174
- Tuff Stuff 6176
- Tuff Stuff 6183

Ensure your power steering pump is one of the listed compatible models or a Saginaw style pump with a key shaft before attempting installation.

## INSTALLATION (SETUP)

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***Disclaimer:** Installation of automotive components can be complex and may require specialized tools and knowledge. If you are not confident in your ability to perform this installation safely, it is recommended to seek assistance from a qualified automotive technician. Always refer to your vehicle's service manual for specific procedures.*

### Required Tools (Typical):

- Power steering pulley puller/installer tool
- Wrenches/sockets (appropriate sizes)
- Torque wrench
- Safety glasses and gloves
- Drain pan (if fluid needs to be drained)
- New power steering fluid (if needed)

### Installation Steps (General Guide):

1. **Safety First:** Ensure the vehicle is safely supported on jack stands or a lift. Disconnect the negative terminal of the battery.
2. **Access:** Locate the power steering pump. You may need to remove other components (e.g., belts, hoses, brackets) to gain clear access to the pulley.
3. **Remove Old Pulley:** Use a power steering pulley puller tool to carefully remove the existing pulley from the pump shaft. Do not use a hammer or pry bar, as this can damage the pump.
4. **Inspect Shaft:** Clean the pump shaft and inspect it for any damage or burrs. Ensure the keyway is clear.
5. **Install New Pulley:** Align the keyway of the Tuff Stuff 8488C pulley with the key on the pump shaft. Use a power steering pulley installer tool to press the new pulley onto the shaft until it is fully seated. Ensure it is pressed on straight and not cocked.
6. **Reassemble:** Reinstall any components that were removed to gain access. Reconnect the power steering belt and ensure it is tensioned correctly according to your vehicle's specifications.
7. **Fluid Check:** If power steering fluid was drained or hoses disconnected, refill the reservoir with the correct type of power steering fluid.

8. **Bleed System:** Start the engine and turn the steering wheel from lock to lock several times to bleed air from the power steering system. Check fluid level and top off as necessary.
9. **Final Check:** Inspect for any leaks and ensure the pulley spins freely and quietly without wobble.

## OPERATION

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The Tuff Stuff 8488C pulley is a passive component that transmits rotational power from the engine's accessory drive belt to the power steering pump. Once correctly installed, it operates continuously with the engine. Proper installation ensures smooth and efficient power transfer, contributing to the correct functioning of your vehicle's power steering system.

## MAINTENANCE

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While the Tuff Stuff pulley itself requires minimal maintenance, regular inspection of the power steering system is recommended to ensure its longevity and proper function:

- **Visual Inspection:** Periodically check the pulley for any signs of damage, cracks, or excessive wear. Ensure it is securely seated on the pump shaft and does not wobble.
- **Belt Condition:** Inspect the serpentine belt that drives the pulley for cracks, fraying, or glazing. Replace the belt if it shows signs of wear.
- **Fluid Level and Condition:** Regularly check the power steering fluid level and condition. Top off with the correct fluid type if low, and consider flushing the system if the fluid appears dark or contaminated.
- **Noise Check:** Listen for any unusual noises (e.g., squealing, grinding, whining) coming from the power steering pump or pulley area, which could indicate an issue.

## TROUBLESHOOTING

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If you experience issues after installing the Tuff Stuff 8488C pulley, consider the following common troubleshooting steps:

Symptom	Possible Cause	Solution
<b>Pulley Wobbles or is Loose</b>	Improper installation; pulley not fully seated; damaged pump shaft.	Re-check installation using a pulley installer tool. Inspect pump shaft for damage. Replace pump if shaft is damaged.
<b>Squealing Noise from Pulley Area</b>	Loose or worn serpentine belt; misaligned pulley; contaminated pulley groove.	Check belt tension and condition. Verify pulley alignment. Clean pulley grooves.
<b>Power Steering System Noise (Whining/Groaning)</b>	Low power steering fluid; air in the system; faulty power steering pump.	Check and top off fluid. Bleed air from the system. If noise persists, the pump may be failing.
<b>Difficulty Steering</b>	Power steering pump not functioning; belt slippage; low fluid.	Check fluid level and belt tension. Ensure pulley is spinning correctly. Diagnose power steering pump.

If troubleshooting steps do not resolve the issue, it is advisable to consult a professional automotive technician.

## WARRANTY AND SUPPORT

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For information regarding product warranty, returns, or technical support, please contact Tuff Stuff directly through their official website or customer service channels. Keep your purchase receipt and product model number (8488C) readily

available when contacting support.

**Manufacturer:** PLY P/STR PMP ALUM/

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