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› ICT Billet SBC Power Steering Pump Bracket Instruction Manual

ICT Billet 20-88822

ICT Billet SBC Power Steering Pump Bracket

Model: 20-88822

Manufacturer: ICT Billet

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ICT Billet SBC Power Steering Pump Bracket. This bracket is designed to mount your power steering pump low on the driver side of your engine, utilizing a slotted arm for precise belt tension adjustment. It is compatible with Small Block Chevy (SBC) engines equipped with a long water pump style and supports both 1 and 2 rib V-belt pulleys.

2. SAFETY INFORMATION

Always prioritize safety when working on automotive systems. Failure to follow safety precautions can result in serious injury or damage to property.

- Ensure the vehicle is securely supported on jack stands or a lift before beginning any work.
- Disconnect the vehicle's battery to prevent accidental electrical discharge.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Allow the engine to cool completely before handling components.
- If you are unsure about any step, consult a qualified automotive professional.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Power Steering Pump Bracket
- Mounting Hardware (bolts, spacers, washers)
- Installation Instructions (this manual)

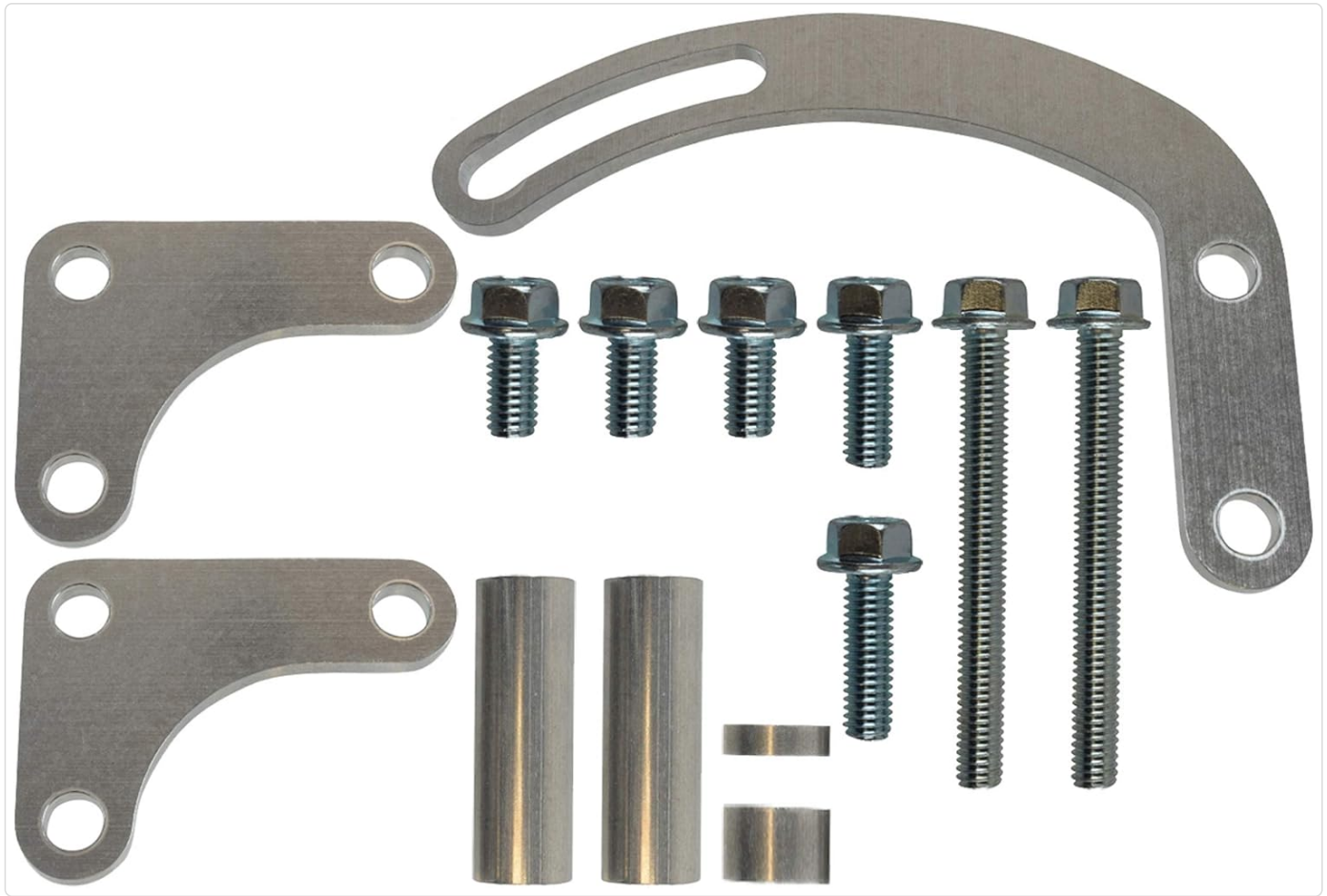


Figure 3.1: Contents of the ICT Billet SBC Power Steering Pump Bracket kit, showing the main bracket, smaller support brackets, various bolts, and spacers.

4. SPECIFICATIONS

Attribute	Value
Item Model Number	20-88822
Product Dimensions	11.2 x 1.1 x 0.2 inches
Item Weight	1.05 Pounds
Material	Billet Aluminum
Compatibility	SBC engines with Long Water Pump (LWP)
Pulley Compatibility	1 and 2 rib V-belt pulleys

5. SETUP AND INSTALLATION

This section outlines the general steps for installing the ICT Billet Power Steering Pump Bracket. For detailed diagrams and specific torque specifications, refer to the official installation manual PDF linked in the Support section.

5.1 Pre-Installation Checks

- **Water Pump Compatibility:** This bracket is designed for SBC engines with a long water pump. Crucially, it requires water pumps from 1977 and newer that feature a threaded bung located below the driver's side block mounting bolts. Older water pumps (1976 and earlier) typically have a smooth sleeve, which is not compatible without modification.
- **Pulley Type:** Ensure your power steering pump uses a single or double V-belt pulley. If using a double V-belt pulley, confirm

there are access holes to tighten/loosen belt tension bolts, as a box wrench may not fit behind it.

- **Cleanliness:** Ensure all mounting surfaces on the engine block and water pump are clean and free of debris.

5.2 Installation Steps

1. Position the main bracket and any necessary spacers onto the engine block and water pump mounting points on the driver's side.
2. Secure the bracket using the provided mounting hardware. Ensure all bolts are finger-tight before final tightening.
3. Mount your power steering pump to the bracket. The bracket is designed to position the pump low on the driver's side.
4. Attach the slotted arm of the bracket to the power steering pump. This arm will be used for tensioning the belt.
5. Install the V-belt onto the power steering pump pulley and the crankshaft pulley.
6. Adjust the tension of the belt using the slotted arm. The arm allows for precise adjustment to achieve proper belt tension.
7. Tighten all mounting bolts to the manufacturer's specified torque values. Refer to the official PDF manual for these specifications.
8. **Alignment Check:** After installation, visually inspect the alignment of the power steering pump pulley with the crankshaft pulley. In some cases, a small shim or washer may be required between the bracket and the engine block to achieve perfect alignment and prevent belt squeal.

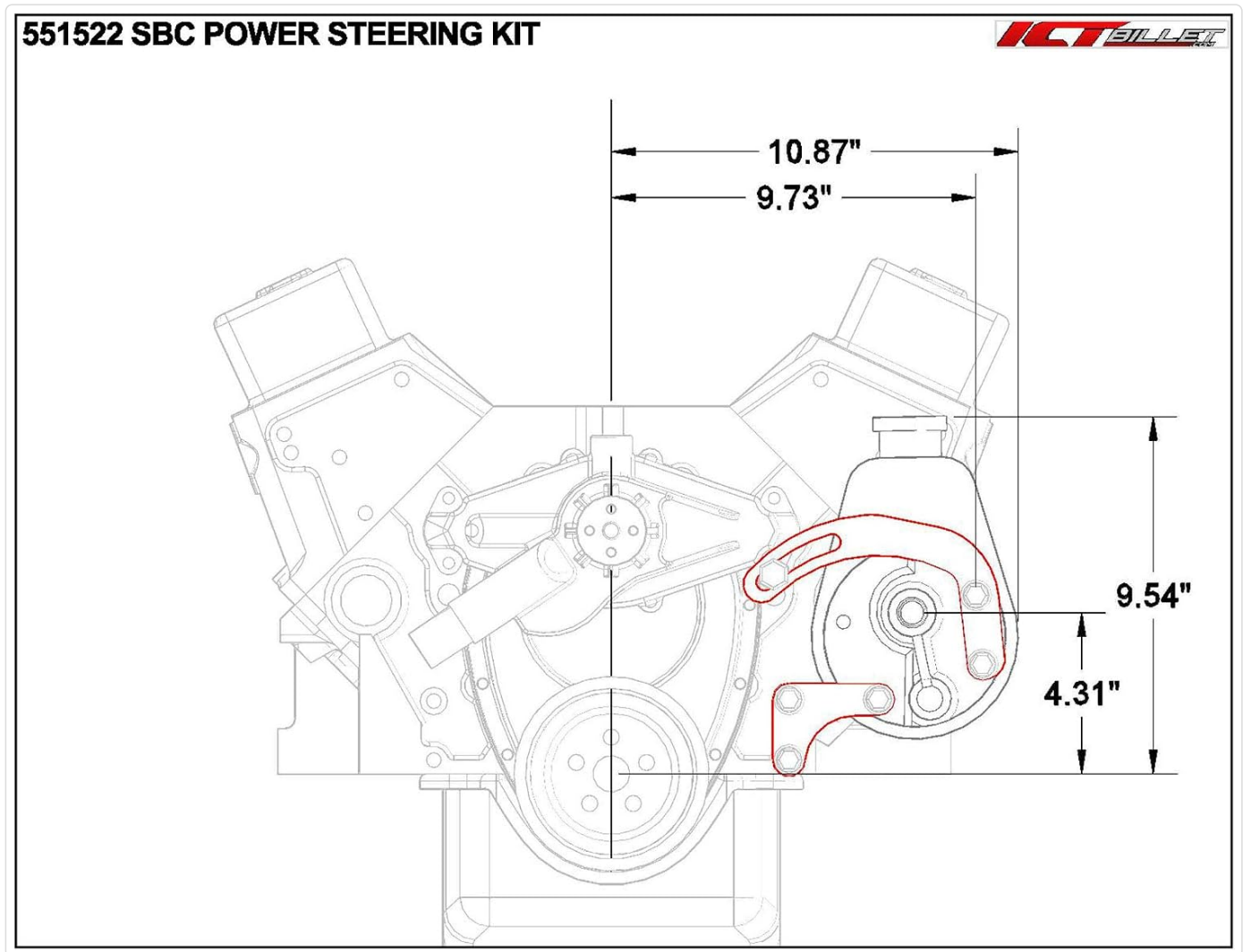


Figure 5.1: Technical diagram illustrating the dimensions and mounting configuration of the bracket on an SBC engine.



Figure 5.2: The power steering pump bracket installed on an SBC engine, demonstrating its low-mount position and belt routing.



Figure 5.3: Detailed view of the bracket and pump assembly from a different angle, showing the belt and pulleys.





Figure 5.4: Example of a compatible power steering pump, often used with this bracket.

6. OPERATION

Once installed, the ICT Billet Power Steering Pump Bracket securely holds the power steering pump in its correct position relative to the engine's crankshaft pulley. The slotted design allows for precise adjustment of the V-belt tension, which is crucial for the proper operation of the power steering system and to prevent belt slippage or excessive wear.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your power steering system and the bracket.

- **Belt Tension:** Periodically check the V-belt tension. A loose belt can cause squealing and inefficient power steering, while an overly tight belt can put undue stress on the pump and engine bearings. Adjust as necessary using the slotted arm.
- **Fastener Torque:** Inspect all mounting bolts for tightness at regular intervals, especially after the first few hundred miles of operation. Vibrations can sometimes loosen fasteners.
- **Visual Inspection:** Check the bracket and surrounding components for any signs of wear, damage, or corrosion. Ensure

there is no interference with other engine components.

8. TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Belt Squeal	Loose belt tension, misaligned pulleys, worn belt.	Adjust belt tension. Check pulley alignment and shim if necessary. Replace worn belt.
Bracket does not fit	Incorrect water pump type (pre-1977 without threaded bung), incorrect engine block.	Verify water pump compatibility (threaded bung required). Ensure engine is a compatible SBC with long water pump.
Pulley misalignment	Manufacturing tolerances, specific engine block variations.	Use shims or washers between the bracket and the engine block to achieve proper alignment.

9. WARRANTY AND SUPPORT

For specific warranty information regarding your ICT Billet Power Steering Pump Bracket, please refer to the documentation included with your purchase or contact ICT Billet directly through their official website.

9.1 Official Resources

- Installation Manual (PDF):** For detailed installation instructions and diagrams, please refer to the official PDF manual: [Download PDF Manual](#)
- Manufacturer Website:** Visit the ICT Billet official website for additional product information, support, and contact details.

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