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› REPLACEMENTKITS.COM Bush Hog Gear Box Input Seal Instruction Manual

## REPLACEMENTKITS.COM Replaces 50068116 & 70190 (Compatible with Bush Hog 2516L, 12516L, 2610L, 12610L)

# Instruction Manual: Bush Hog Gear Box Input Seal

Model: Replaces 50068116 & 70190

## 1. PRODUCT OVERVIEW

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This manual provides essential information for the REPLACEMENTKITS.COM Brand Gear Box Input Seal, designed to replace original part numbers 50068116 and 70190. This seal is a critical component for maintaining the integrity and performance of your Bush Hog gear box.

It is compatible with the following Bush Hog models and their respective gear boxes:

- Bush Hog Model 2516L (70301 gear box)
- Bush Hog Model 12516L (70611 gear box)
- Bush Hog Model 2610L (70305 gear box)
- Bush Hog Model 12610L (70613 gear box)



Figure 1: Front view of the REPLACEMENTKITS.COM Gear Box Input Seal. This image shows the circular seal with its central opening, designed to prevent lubricant leakage from the gear box.



Figure 2: Angled view of the REPLACEMENTKITS.COM Gear Box Input Seal. This perspective highlights the seal's thickness and the internal structure, including the sealing lips.

## 2. SETUP AND INSTALLATION

Proper installation of the input seal is crucial for preventing lubricant leaks and ensuring the longevity of your gear box. It is recommended that installation be performed by individuals familiar with agricultural machinery maintenance.

## 2.1. Required Tools and Materials

- Appropriate wrenches or sockets for gear box disassembly
- Seal puller or flat-head screwdriver (for old seal removal)
- Rubber mallet or seal driver tool (for new seal installation)
- Clean rags
- Gear oil (as specified by Bush Hog for your model)
- Safety glasses and gloves

## 2.2. Installation Procedure

1. **Safety First:** Ensure the machinery is turned off, disengaged, and secured to prevent accidental movement. Disconnect power if applicable.
2. **Drain Gear Oil:** If necessary, drain the gear oil from the gear box according to the Bush Hog service manual.
3. **Access Gear Box:** Carefully disassemble components to gain access to the gear box input shaft and the old seal. This may involve removing PTO shafts, covers, or other attachments.
4. **Remove Old Seal:** Using a seal puller or a carefully placed flat-head screwdriver, pry out the old seal. Be cautious not to damage the gear box housing or the input shaft.
5. **Clean Sealing Surface:** Thoroughly clean the seal bore and the input shaft. Remove any old sealant, dirt, or debris. Ensure the surface is smooth and free of nicks or burrs.
6. **Inspect Shaft:** Inspect the input shaft for any wear grooves or damage where the new seal will ride. Significant damage may require shaft repair or replacement.
7. **Install New Seal:** Apply a thin coat of clean gear oil to the inner lip of the new seal. Carefully align the new seal with the bore. Using a rubber mallet or a seal driver tool, gently tap the seal evenly into place until it is fully seated and flush with the housing. *Do not force the seal or tap unevenly, as this can damage it.*
8. **Reassemble:** Reassemble all components removed during disassembly. Ensure all fasteners are tightened to the manufacturer's specifications.
9. **Refill Gear Oil:** Refill the gear box with the correct type and amount of gear oil as specified by the Bush Hog service manual. Check for leaks after refilling.

## 3. OPERATING CONSIDERATIONS

Once installed, the input seal operates continuously to prevent the escape of gear oil from the gear box and to protect the internal components from external contaminants like dirt and moisture. Proper operation of the seal is passive and relies on correct installation and the integrity of the seal material.

Ensure that the machinery is operated within its intended parameters, avoiding excessive loads or speeds that could put undue stress on the gear box and its sealing components.

## 4. MAINTENANCE

Regular inspection and maintenance are key to extending the life of your gear box and its seals.

### 4.1. Routine Checks

- **Visual Inspection:** Periodically inspect the area around the input shaft seal for any signs of oil leakage. Even small drips can indicate a failing seal.

- **Cleanliness:** Keep the exterior of the gear box clean, especially around the seal area, to easily spot any leaks and prevent dirt from entering.
- **Gear Oil Level:** Regularly check the gear oil level in the gear box. A consistently low level, without obvious external leaks, might suggest an internal issue or a very slow external leak from the seal.

4.2. Seal Replacement Interval

The lifespan of an input seal can vary depending on operating conditions, hours of use, and environmental factors. Replace the seal immediately if any signs of leakage are observed. It is also good practice to replace seals whenever the gear box is disassembled for other major repairs, as seals are wear items.

5. TROUBLESHOOTING

If you encounter issues related to the gear box input seal, consider the following troubleshooting steps:

5.1. Oil Leakage from Input Shaft

- **Cause:** Damaged or worn input seal.
- **Solution:** Inspect the seal for cracks, hardening, or tears. If damaged, replace the seal following the installation procedure in Section 2.2.
- **Cause:** Improper seal installation.
- **Solution:** Ensure the seal was installed squarely and fully seated. Re-installation may be necessary.
- **Cause:** Damaged input shaft surface.
- **Solution:** Inspect the shaft where the seal rides for grooves or scoring. If present, the shaft may need repair or replacement, or a seal designed for worn shafts might be considered.
- **Cause:** Excessive internal gear box pressure.
- **Solution:** Check the gear box breather or vent. A clogged vent can cause pressure buildup, forcing oil past seals. Clean or replace the vent if necessary.

5.2. Premature Seal Failure

- **Cause:** Contamination (dirt, debris).
- **Solution:** Ensure the gear box area is kept clean. Verify that the seal bore was clean prior to installation.
- **Cause:** Incorrect lubricant type or level.
- **Solution:** Use only the gear oil specified by the equipment manufacturer. Ensure the oil level is correct; overfilling can cause pressure issues.
- **Cause:** Operating conditions (excessive heat, speed).
- **Solution:** Ensure the machinery is operated within its design limits. Overheating can degrade seal material.

6. SPECIFICATIONS

Key specifications for the REPLACEMENTKITS.COM Brand Gear Box Input Seal:

| Specification              | Detail                       |
|----------------------------|------------------------------|
| Brand                      | REPLACEMENTKITS.COM          |
| Replaces Part Numbers      | 50068116, 70190              |
| Compatible Bush Hog Models | 2516L, 12516L, 2610L, 12610L |
| Package Dimensions         | 4.76 x 4.17 x 0.47 inches    |

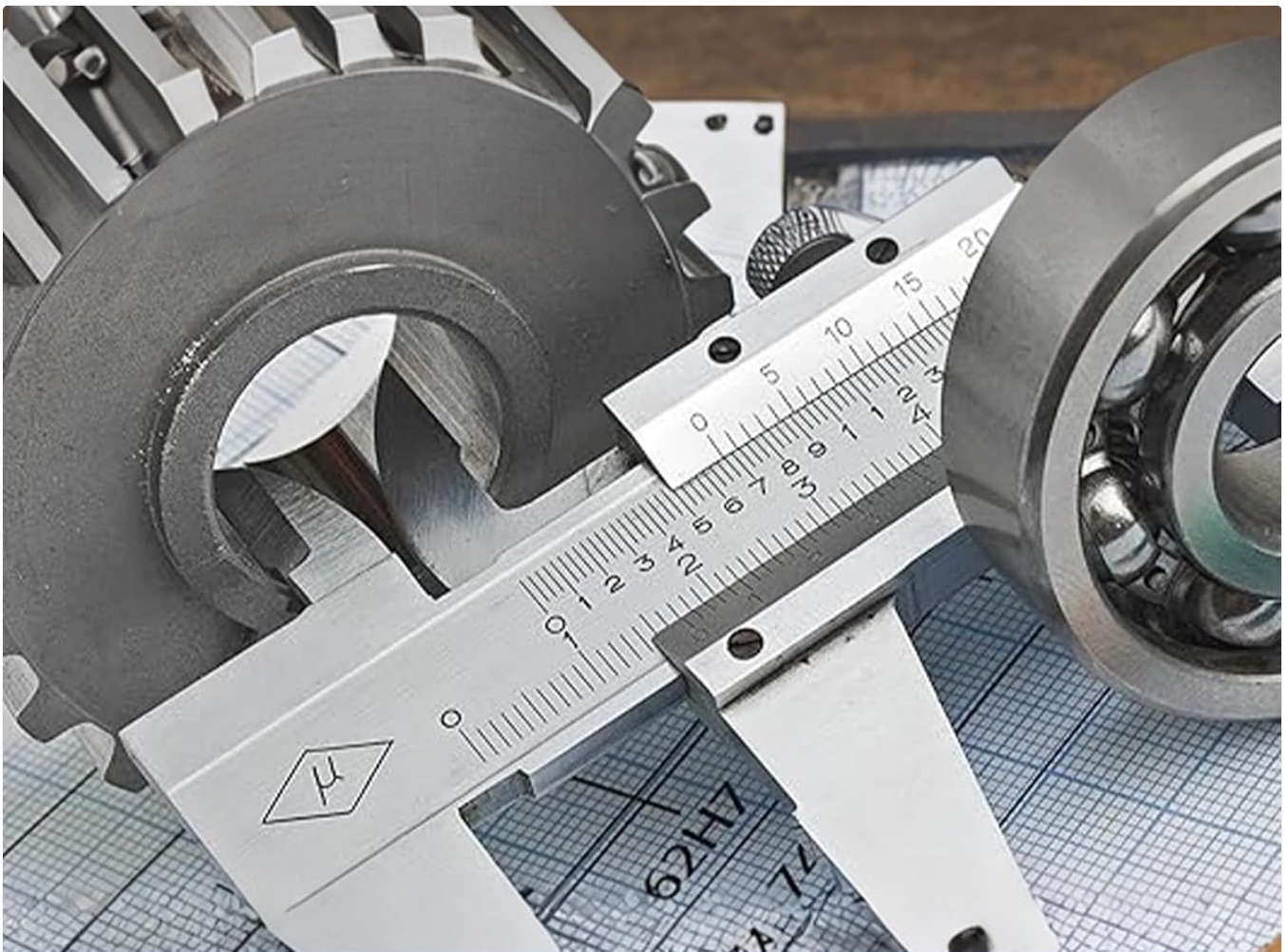
| Specification | Detail           |
|---------------|------------------|
| Item Weight   | 2.22 ounces      |
| Manufacturer  | Replacement Kits |
| UPC           | 852967008113     |



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Figure 3: Quality inspection process. This image illustrates the commitment to quality control, with parts being rigorously tested and inspected to ensure performance.



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with the highest quality  
aftermarket parts available.

Figure 4: Precision measurement of mechanical components. This image emphasizes the use of precise tools to ensure that all replacement parts meet exact specifications.

## 7. WARRANTY AND SUPPORT

### 7.1. Warranty Information

REPLACEMENTKITS.COM stands behind the quality of its products. This product comes with a **100% Satisfaction Guaranteed** assurance. For specific warranty claims or details, please refer to the official REPLACEMENTKITS.COM website or contact their customer service directly.

### 7.2. Customer Support

For technical assistance, questions regarding installation, or any other inquiries, please contact REPLACEMENTKITS.COM customer support. You can typically find contact information on their official website or through the retailer where the product was purchased.

*Note: Always refer to your specific Bush Hog equipment's owner's manual for detailed service procedures and safety information.*

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