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Dixie Chopper 200107

Dixie Chopper Gear Box Fine Spline with Washer Kit Instruction Manual

Model: **200107**

Brand: **Dixie Chopper**

1. Introduction

This manual provides essential information for the proper installation, function, and care of your Dixie Chopper Gear Box Fine Spline with Washer Kit, Part # 200107. This genuine replacement part is designed for use with various Dixie Chopper Lawn Mowers, ensuring optimal performance and durability. It is constructed from durable metal with a rubber and plastic housing.

Before proceeding with any installation or maintenance, please carefully read this manual and consult your specific lawn mower's owner's manual or appropriate parts diagram to confirm correct location and fitment.

2. Product Overview

The Dixie Chopper Gear Box Fine Spline with Washer Kit is a critical component in the drive system of compatible lawn mowers. It features a fine spline design for precise power transmission and includes a washer kit for secure installation.



Figure 1: Dixie Chopper Gear Box Fine Spline with Washer Kit. This image displays the complete gear box assembly, highlighting its robust metal construction and the fine spline shaft at the top, along with the mounting points and bearing housing on the side.

3. Compatibility

This gear box is compatible with various Dixie Chopper lawn mower models. Always verify the original Dixie Chopper part number (200107) in your owner's manual or on the appropriate parts diagram for your specific model before installation.

Known Compatible Models:

- 2012 Xcaliber Gasoline
- 2013 Classic 2750, 2760, 2960EFI, 3360HP, 3372HP
- 2013 Xcaliber 3366, 3366SS, 3374, 3374SS
- 2014 Classic 2750, 2760, 2960EFI, 3360HP, 3372HP
- 2014 Xcaliber 3366, 3374, 5474 Twin
- 2015 Classic, Xcaliber
- 2016 Classic, Classic Rev1, Xcaliber, Xcaliber Rev1
- 2017 Classic, Xcaliber
- 2018 Classic, Xcaliber
- Classic 2550 (2011), 2750HP (2011), 2760 (2011), 3060HP (2011), 3360HP (2011), 3372HP (2011)
- MID2013 Classic 2750, 2960EFI

This list may not be exhaustive. Always cross-reference with your equipment's documentation.

4. Installation (Setup)

Installation of the gear box requires mechanical aptitude and appropriate tools. If you are unsure about any step, it is recommended to seek assistance from a qualified service technician.

General Installation Guidelines:

1. **Safety First:** Ensure the lawn mower is turned off, the engine is cool, and the spark plug wire is disconnected to

prevent accidental starting. Engage the parking brake.

2. **Access the Gear Box:** Depending on your mower model, you may need to remove deck covers, belts, or other components to gain access to the existing gear box. Refer to your mower's service manual for specific instructions.
3. **Remove Old Gear Box:** Carefully disconnect any linkages, belts, or mounting hardware attached to the old gear box. Note the orientation and connections for reassembly.
4. **Inspect Surrounding Components:** While the gear box is removed, inspect belts, pulleys, and bearings for wear or damage. Replace any worn components as necessary.
5. **Install New Gear Box:** Position the new Dixie Chopper Gear Box (Part # 200107) in the correct orientation. Secure it using the appropriate mounting hardware. Ensure all washers from the kit are used as specified.
6. **Reconnect Components:** Reattach any belts, linkages, or other components that were disconnected. Ensure belts are properly tensioned according to your mower's specifications.
7. **Final Checks:** Before starting the mower, manually rotate any accessible shafts to ensure free movement and proper alignment. Double-check all fasteners for tightness.
8. **Test Operation:** Reconnect the spark plug wire. Start the mower in a safe, open area and test its functions at a low speed, listening for unusual noises or vibrations.

Always refer to your specific Dixie Chopper lawn mower's service manual for detailed, model-specific installation instructions and torque specifications.

5. Operating Considerations

The gear box itself does not have direct user-operable controls. Its function is integral to the lawn mower's drive system. Proper operation of the lawn mower, as outlined in its owner's manual, will ensure the gear box functions correctly.

- Ensure the mower is operated within its intended load and speed limits.
- Avoid sudden impacts or excessive strain on the mower's drive system, which can prematurely wear components, including the gear box.
- Regularly check for any unusual noises or vibrations during operation, which could indicate an issue with the gear box or related components.

6. Maintenance

While the gear box is a sealed unit designed for durability, regular inspection of the surrounding components and general mower maintenance are crucial for its longevity.

- **Visual Inspection:** Periodically inspect the gear box for any signs of leaks, cracks, or damage to its housing. Check for loose mounting bolts.
- **Shaft and Spline Check:** Ensure the spline shaft is free from excessive wear or corrosion.
- **Belt Inspection:** If applicable, regularly inspect drive belts connected to the gear box for wear, cracks, or proper tension. Replace worn belts promptly.
- **Cleaning:** Keep the area around the gear box clean and free of debris, grass clippings, and dirt to prevent overheating and premature wear.

7. Troubleshooting

If you experience issues with your lawn mower's drive system after installing or while using this gear box, consider the following general troubleshooting steps:

- **Unusual Noises (Grinding, Whining):** This could indicate internal wear within the gear box, improper lubrication (if applicable to your specific gear box type, though this unit is typically sealed), or issues with connected components

like bearings or pulleys.

- **Loss of Drive/Power:** Check for loose or broken drive belts, stripped splines on the gear box shaft, or internal gear damage.
- **Vibrations:** Excessive vibrations can be caused by unbalanced components, worn bearings, or internal gear box issues.
- **Leaks:** Any oil or grease leaks from the gear box housing indicate a seal failure and require immediate attention.

For persistent issues, consult your Dixie Chopper lawn mower's service manual or contact a certified service technician.

8. Specifications

Feature	Detail
Part Number	200107
Gear Type	Fine Spline
Material	Durable Metal with Rubber and Plastic Housing
Package Quantity	1 (Gear Box with Washer Kit)
Approximate Dimensions	10" x 10" x 6"
Approximate Item Weight	8.05 pounds
Manufacturer	Dixie Chopper

9. Warranty and Support

For specific warranty information regarding your Dixie Chopper Gear Box Fine Spline with Washer Kit (Part # 200107), please refer to the documentation provided with your original purchase or contact the authorized Dixie Chopper dealer or the seller from whom you purchased this part.

For technical support or assistance with installation and troubleshooting, it is recommended to consult your Dixie Chopper lawn mower's official service manual or contact an authorized Dixie Chopper service center.

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