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Dixie Chopper 401590

Dixie Chopper Iron Eagle Throttle Assembly User Manual

Model: 401590
Brand: Dixie Chopper

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Dixie Chopper Iron Eagle Throttle Assembly. This genuine replacement part is designed for various Dixie Chopper lawn mower models, ensuring reliable performance and precise control.

The throttle assembly is a critical component for controlling engine speed on your lawn mower. It is made of durable metal with a rubber and plastic housing, ensuring longevity and consistent functionality.

2. Safety Information

Always prioritize safety when working with machinery. Read and understand all safety warnings and instructions in your lawn mower's primary owner's manual before attempting any installation or maintenance.

- Disconnect the spark plug wire or remove the battery before performing any service or maintenance to prevent accidental starting.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Ensure the engine is cool before handling any components.
- If you are unsure about any procedure, consult a qualified service technician.
- Use only genuine Dixie Chopper replacement parts to ensure proper fit and function.

3. Product Overview

The Dixie Chopper Iron Eagle Throttle Assembly (Part # 401590) consists of a control lever with a black knob, a metal bracket for mounting, and a control cable. This assembly allows the operator to adjust the engine's RPMs.



Figure 3.1: Dixie Chopper Iron Eagle Throttle Assembly. This image shows the complete throttle assembly, featuring a black control knob, a metal lever, a mounting bracket, and the attached control cable.

4. Setup and Installation

This section outlines the general steps for replacing the throttle assembly. Always refer to your specific lawn mower model's service manual for detailed instructions and diagrams.

Required Tools:

- Wrenches or sockets (appropriate sizes for mounting bolts)
- Screwdriver (if applicable)

Installation Steps:

1. **Preparation:** Ensure the lawn mower engine is off and cool. Disconnect the spark plug wire or battery to prevent accidental starting.
2. **Locate Old Assembly:** Identify the existing throttle assembly on your mower. Note how the cable is routed and connected to the engine's carburetor or governor linkage.
3. **Disconnect Cable:** Carefully disconnect the throttle cable from the engine's linkage. This usually involves removing a clip or a small bolt.
4. **Remove Old Assembly:** Unbolt the old throttle assembly from its mounting location on the mower's control panel or frame.
5. **Install New Assembly:** Position the new Dixie Chopper Iron Eagle Throttle Assembly (Part # 401590) in the same location as the old one. Secure it with the appropriate bolts or fasteners.
6. **Connect Cable:** Route the new throttle cable along the same path as the old one, ensuring it is not pinched or kinked. Connect the cable end to the engine's carburetor or governor linkage, ensuring it moves freely.
7. **Test Functionality:** Reconnect the spark plug wire or battery. Start the engine and slowly move the throttle lever through its full range of motion to ensure the engine RPMs respond correctly. Adjust cable tension if necessary

according to your mower's service manual.

5. Operating Instructions

The throttle assembly controls the engine speed of your Dixie Chopper lawn mower. Moving the lever typically increases or decreases the engine's RPMs.

- **Starting Position:** For starting the engine, position the throttle lever according to your mower's specific starting procedure (often a "Choke" or "Fast" setting).
- **Operating Speed:** Once the engine is running, move the throttle lever to the desired operating speed. For mowing, a higher RPM setting is generally recommended for optimal cutting performance.
- **Stopping Engine:** To stop the engine, move the throttle lever to the "Stop" or "Slow" position, as indicated on your mower's control panel.

Always refer to your lawn mower's owner's manual for specific operating instructions and recommended throttle settings for various tasks.

6. Maintenance

Proper maintenance of your throttle assembly ensures smooth operation and extends its lifespan.

- **Regular Inspection:** Periodically inspect the throttle cable for fraying, kinks, or damage. Check the lever and mounting bracket for looseness or wear.
- **Lubrication:** Apply a light lubricant (e.g., silicone spray or light oil) to the pivot points of the throttle lever and the cable ends where they connect to the engine linkage. Do not over-lubricate.
- **Cleaning:** Keep the throttle assembly free from dirt, grass clippings, and debris. Use a clean cloth to wipe down the components.
- **Cable Adjustment:** If the engine speed does not respond accurately to the throttle lever, the cable may need adjustment. Refer to your mower's service manual for instructions on adjusting throttle cable tension.

7. Troubleshooting

This section addresses common issues related to the throttle assembly.

Problem	Possible Cause	Solution
Throttle lever is stiff or hard to move.	Lack of lubrication, bent cable, or debris.	Lubricate pivot points and cable. Inspect cable for damage and clear any debris. Replace if bent.
Engine speed does not change with throttle lever movement.	Disconnected cable, broken cable, or incorrect cable adjustment.	Check cable connections at both ends. Inspect cable for breaks. Adjust cable tension as per mower manual. Replace if broken.
Throttle lever feels loose or wobbly.	Loose mounting bolts or worn pivot points.	Tighten mounting bolts. If pivot points are excessively worn, replacement of the assembly may be necessary.

If troubleshooting steps do not resolve the issue, contact a certified Dixie Chopper service center.

8. Specifications

- **Part Number:** 401590 (Replaces 400586, 400926, 400297)
- **Dimensions:** Approximately 3" x 12.50" x 9.50" (Package Dimensions)
- **Item Weight:** Approximately 15.2 ounces

- **Material:** Durable metal with rubber and plastic housing
- **Manufacturer:** Dixie Chopper

9. Compatibility

This Dixie Chopper Iron Eagle Throttle Assembly (Part # 401590) is compatible with a wide range of Dixie Chopper lawn mower models. Please verify the original Dixie Chopper part number in your owner's manual or on the appropriate parts diagram of your model for correct location and fitment.

Known Compatible Models:

- **2015 Models:** Classic, Magnum, Xcaliber, Zee 2
- **2016 Models:** Classic, Classic Rev1, Magnum, Magnum Rev1, Magnum Rev2, Silver Eagle, Silver Eagle Rev1, Xcaliber, Xcaliber Rev1, Zee 2, Zee 2 Rev1
- **2017 Models:** BlackHawk, Classic, Magnum, RZT Pro Series, Silver Eagle, Xcaliber, Zee 2, ZT Pro 3172EFI, ZT400-ZT600
- **2018 Models:** BlackHawk/BlackHawk HP, Classic, Magnum, Xcaliber, Zee 2, ZT400/600, ZT900/1000 RZT MOWER

Note: This list may not be exhaustive. Always cross-reference with your mower's specific part requirements.

10. Warranty and Support

For information regarding the warranty of your Dixie Chopper Iron Eagle Throttle Assembly, please refer to the warranty documentation provided with your original Dixie Chopper lawn mower or contact Dixie Chopper customer service directly.

For technical support, replacement parts inquiries, or service assistance, please contact your authorized Dixie Chopper dealer or visit the official Dixie Chopper website for contact information.

- **Manufacturer:** Dixie Chopper
- **Website:** www.dixiechopper.com (*Note: This is a placeholder URL, please verify the official website*)

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