

X-PRO 331-999045

X-PRO Automatic Electric Choke Instruction Manual

Brand: X-PRO | Model: 331-999045

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the X-PRO Automatic Electric Choke. This component is designed to facilitate cold starting and optimize fuel mixture for 50cc-150cc scooters, ATVs, and go-karts equipped with 18mm or 24mm carburetors. The automatic electric choke adjusts the fuel-air ratio based on engine temperature, ensuring efficient engine operation from start-up.

2. PRODUCT OVERVIEW

The X-PRO Automatic Electric Choke is a crucial component for engine cold starting. It consists of a main body, a needle valve, electrical wiring, and a connector. The device automatically enriches the fuel mixture when the engine is cold and gradually leans it out as the engine warms up, ensuring smooth operation and fuel efficiency.



Figure 2.1: The X-PRO Automatic Electric Choke unit, showing the main body, attached wiring, and red electrical connector.



Figure 2.2: A close-up view of the electric choke, illustrating the protective cap covering the internal mechanism.



Figure 2.3: Detailed view of the electric choke with the cap removed, exposing the brass needle valve and its housing.

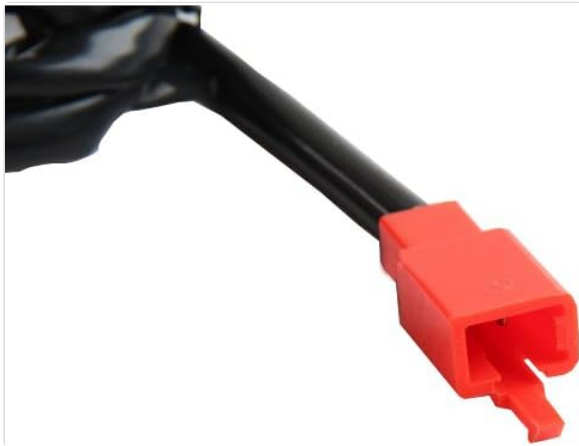


Figure 2.4: A close-up of the red two-pin electrical connector, which supplies power to the electric choke.

3. COMPATIBILITY

This automatic electric choke is compatible with 50cc-150cc scooters, ATVs, and go-karts that utilize 18mm or 24mm carburetors. It is essential to verify your vehicle's carburetor specifications and compare them with the product images and dimensions to ensure proper fitment before installation.

4. INSTALLATION (SETUP)

Proper installation is critical for the correct function of the automatic electric choke. Always ensure the engine is off and cool before beginning any installation procedures. Refer to your vehicle's service manual for specific carburetor removal and access instructions.

1. **Preparation:** Ensure you have the necessary tools, including screwdrivers and wrenches. Disconnect the battery if required by your vehicle's manual.
2. **Remove Old Choke:** Carefully disconnect the wiring from the existing electric choke. Unscrew or unclip the old choke from the carburetor.
3. **Install New Choke:** Place the new enrichment valve (electric choke) onto the carburetor. Ensure it seats properly.
4. **Secure Choke:** Fix the choke in place using the provided spacers and screws. Tighten securely but do not overtighten.
5. **Install Cap:** Place the cap onto the thickening valve (choke unit).
6. **Connect Wiring:** Connect the red two-pin electrical connector to the corresponding harness on your vehicle. Ensure a secure connection.
7. **Final Checks:** Double-check all connections and ensure no wires are pinched or exposed.

Installation Video Reference

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Video 4.1: This video demonstrates the installation process of an electric choke on a carburetor, including securing the unit and connecting the wiring. It highlights the steps for placing the enrichment valve and fixing it with spacers and screws.

5. OPERATION

The X-PRO Automatic Electric Choke operates automatically. When the engine is cold, the choke's needle valve retracts, allowing more fuel into the carburetor to create a richer mixture for easier starting. As the engine warms up, an internal heating element causes the needle valve to extend, gradually reducing the fuel flow and leaning out the mixture to the optimal ratio for normal operating temperatures. This automatic function eliminates the need for manual choke adjustments.

6. MAINTENANCE

Regular inspection of your automatic electric choke can help ensure its longevity and proper function. While the unit is largely maintenance-free, consider the following:

- **Visual Inspection:** Periodically check the choke for any visible damage, loose connections, or corrosion on the wiring and connector.
- **Cleanliness:** Ensure the area around the choke and carburetor is free from dirt, debris, and fuel leaks.
- **Wiring Integrity:** Verify that the wiring is securely connected and not frayed or damaged.

7. TROUBLESHOOTING

If you experience issues with cold starting or engine performance, the automatic electric choke may be a factor. Here are some common troubleshooting steps:

- **Engine Hard to Start When Cold:**
 - Check the electrical connection to the choke. Ensure it is secure and receiving power.
 - Inspect the choke's needle valve for obstruction or damage. It should retract when cold.

- **Engine Runs Rich (Black Smoke, Poor Fuel Economy) After Warming Up:**
 - The choke may not be disengaging properly. If the insulation cover has no temperature after the engine is started, the clotted valve might be broken or the wiring is not connected properly.
 - A continuously engaged choke can lead to a burned-out spark plug and increased fuel consumption.
- **General Performance Issues:**
 - Ensure the choke is correctly seated in the carburetor and there are no air leaks around its mounting.

Product Overview Videos

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Video 7.1: A brief overview of the GY6 Electric Choke, showcasing its components and general appearance.

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Video 7.2: This video provides a detailed look at the CARBURETOR ELECTRIC CHOKE for GY6 50cc 125cc 150cc engines, demonstrating its features and design.

8. SPECIFICATIONS

Brand	X-PRO
Model Number	331-999045
UPC	625317262080
Vehicle Service Type	ATV, Scooter, Go Kart
Fuel Type	Electric
Carburetor Compatibility	18mm, 24mm
Engine Displacement	50cc-150cc
Item Weight	9.6 ounces
Date First Available	November 16, 2016

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided by the retailer or manufacturer at the time of purchase. Keep your proof of purchase for any warranty claims.

 <p>YOU MUST READ THIS QUICK GUIDE BEFORE YOU START!</p>	<p>X-PRO ATV Speed Limiter Adjustment and Operation Tips</p> <p>Learn how to adjust the speed limiter on your X-PRO ATV (CT110-2/ATV-P012) and find essential operating tips for safe and optimal performance. Includes guidance on oil changes, battery, and more.</p>
 <p>OWNER'S MANUAL</p>	<p>X-PRO 50cc 2-Stroke Dirt Bike Owner's Manual</p> <p>Comprehensive owner's manual for the X-PRO 50cc 2-Stroke Dirt Bike, covering safety, assembly, operation, maintenance, troubleshooting, and warranty information. Designed for competition use only.</p>
 <p>YOU MUST READ THIS QUICK GUIDE BEFORE YOU START!</p>	<p>X-PRO ATV Speed Limiter Adjustment and Operation Tips</p> <p>A quick guide from X-PRO on how to adjust the speed limiter on your ATV (model HS110A-A/ATV-D02), along with essential operating tips for safe and proper use. Includes support contact information.</p>
 <p>YOU MUST READ THE QUICK GUIDE BEFORE YOU START!</p>	<p>X-PRO Motorcycle Quick Start Guide and Tips</p> <p>Essential quick start guide and tips for X-PRO motorcycles, including assembly advice, maintenance recommendations, and warranty information.</p>
 <p>YOU MUST READ THIS QUICK GUIDE BEFORE YOU START!</p>	<p>X-PRO ATV Speed Limiter Adjustment and Operation Tips</p> <p>Learn how to adjust the speed limiter on your X-PRO ATV (CT110-2/ATV-P012) and find essential operating tips for safe and optimal performance. Includes guidance on oil changes, battery, and more.</p>
<p>USER MANUAL (Y-6)</p>  <p><small>Operation of this ATV by children under the age of 15 without the aid of an operator is illegal. Adult supervision required for children under age 15. 100 lbs. gross vehicle weight, age 15 to operate this ATV.</small></p>	<p>Y-6 ATV User Manual - Operation, Maintenance, and Safety Guide</p> <p>Comprehensive user manual for the Y-6 ATV, covering assembly, operation, maintenance, safety guidelines, technical specifications, and warranty information.</p>

