DEWALT 41AD27CC939

DEWALT Gas String Trimmer DXGST227CS User Manual

Model: 41AD27CC939

Product Overview

The DEWALT DXGST227CS Gas String Trimmer, model 41AD27CC939, is designed for efficient lawn maintenance. It features a 27cc 2-cycle engine, providing robust power for various trimming tasks. The 17-inch cutting swath allows for wide area coverage, while the ergonomic over-mold handle ensures comfortable operation and enhanced control. This trimmer is attachment-capable, allowing for versatility with compatible accessories.



Figure 1: The DEWALT DXGST227CS Gas String Trimmer, fully assembled. This image shows the complete unit from the engine to the trimmer head, highlighting its overall design.

Safety Information

WARNING: Use this product with caution to avoid flying debris or cut hazards. Always wear appropriate safety gear, including eye protection, hearing protection, and hand protection (gloves) when operating the string trimmer. Ensure bystanders are at a safe distance from the operating area.

- Read and understand all instructions before operating the trimmer.
- Never operate the trimmer without proper guards in place.
- Inspect the work area for objects that could be thrown by the trimmer line.
- Do not operate the trimmer in wet conditions or near flammable liquids/gases.
- Always turn off the engine and allow it to cool before refueling or performing maintenance.

Setup and Assembly

The DEWALT DXGST227CS string trimmer requires some assembly before first use. Follow these steps carefully:

1. **Unpack Components:** Carefully remove all parts from the packaging. Verify all components are present according to the packing list.
2. **Assemble Shaft:** The trimmer features an attachment-capable shaft. Align the upper and lower shaft sections and secure them using the provided coupling mechanism. Ensure the connection is firm and locked into place.



Figure 2: The DEWALT DXGST227CS Gas String Trimmer shown in two main sections, illustrating its attachment-capable design. The engine unit is separate from the shaft and trimmer head.

3. **Attach Guard:** Securely attach the debris guard to the trimmer head assembly using the fasteners provided. This guard is crucial for operator safety.
4. **Install Handle:** Position the ergonomic over-mold handle on the shaft at a comfortable operating height. Tighten the

handle clamp securely.

5. **Fueling:** This trimmer uses a 2-cycle engine. Mix unleaded gasoline with a high-quality 2-cycle engine oil at the ratio specified in the engine manual (typically 50:1 or 40:1). Fill the fuel tank carefully, avoiding spills.



Figure 3: A close-up view of the 27cc 2-cycle engine of the DEWALT DXGST227CS trimmer. This image highlights the engine's design and key components.

Operating Instructions

Before starting, ensure you are wearing appropriate safety gear. Always operate the trimmer in a well-ventilated area.

1. **Starting the Engine:**
    - Set the choke lever to the "FULL CHOKE" position.

- Press the primer bulb 5-10 times until fuel is visible in the bulb.
- Pull the starter rope firmly and smoothly until the engine attempts to start (usually 1-3 pulls).
- Once the engine "pops" or attempts to start, move the choke lever to the "HALF CHOKE" position.
- Pull the starter rope again until the engine starts.
- Once the engine is running, move the choke lever to the "RUN" position. Allow the engine to warm up for 30-60 seconds before applying throttle.

2. **Trimming Operation:**
    - Hold the trimmer firmly with both hands, maintaining balance.
    - Keep the trimmer head parallel to the ground for even cutting.
    - Use a sweeping motion to cut grass and weeds.
    - To advance the trimmer line, tap the bump feed head lightly on the ground while the engine is running at full throttle.



Figure 4: An individual demonstrating the proper stance and technique for operating the DEWALT DXGST227CS Gas String Trimmer in a lawn environment.

3. **Stopping the Engine:**
    - Release the throttle trigger.
    - Press the engine stop switch to the "OFF" position.

Maintenance

Regular maintenance ensures optimal performance and extends the life of your DEWALT string trimmer. Always disconnect the spark plug wire before performing any maintenance.

- **Air Filter:** Clean the air filter regularly (every 5-10 hours of operation, or more often in dusty conditions). Remove the filter cover, clean the foam filter with warm, soapy water, rinse, and allow to dry completely. Re-oil lightly with air

filter oil if specified.

- **Spark Plug:** Inspect the spark plug annually or every 25 hours of operation. Clean or replace if fouled or worn. Refer to the engine manual for the correct spark plug type and gap.
- **Fuel Filter:** Replace the fuel filter annually.
- **Trimmer Head and Line:**
    - Inspect the trimmer head for damage or excessive wear.
    - Replace trimmer line as needed. The easy bump feed head allows for quick re-spooling.



Figure 5: A detailed view of the easy bump feed trimmer head on the DEWALT DXGST227CS, showing the trimmer line and its mechanism.

- **General Cleaning:** Keep the engine and cooling fins free of debris to prevent overheating. Wipe down the exterior of the trimmer after each use.

Troubleshooting

Problem	Possible Cause	Solution
Engine will not start	No fuel, incorrect choke setting, fouled spark plug, clogged fuel filter, stale fuel.	Check fuel level and mix. Adjust choke. Clean/replace spark plug. Replace fuel filter. Use fresh fuel.
Engine starts then dies	Incorrect choke setting, clogged fuel filter, air filter dirty, carburetor issues.	Adjust choke to RUN. Replace fuel filter. Clean air filter. Consult service center for carburetor.
Lack of power during operation	Dirty air filter, incorrect fuel mix, dull trimmer line, engine overheating.	Clean air filter. Verify fuel mix ratio. Replace trimmer line. Clean cooling fins.
Excessive vibration	Damaged trimmer head, bent shaft, loose components.	Inspect trimmer head for damage. Check shaft for bends. Tighten all fasteners.

Specifications

Feature	Detail
Brand	DEWALT
Model Number	41AD27CC939 (DXGST227CS)
Power Source	Gas Powered
Engine Type	27cc 2-Cycle
Cutting Width	17 Inches
Trimmer Head	Easy Load Bump Head
Handle Design	Ergonomic Over-mold
Attachment Capable	Yes
Product Dimensions	39"L x 10.63"W
Item Weight	15 pounds
UPC	084931848863

Warranty and Support

The DEWALT DXGST227CS Gas String Trimmer comes with a**3-year limited warranty** covering defects in material and workmanship. For warranty claims, technical support, or to locate an authorized service center, please refer to the official DEWALT website or contact DEWALT customer service directly. Keep your proof of purchase for warranty validation.
For additional information and support, visit: www.dewalt.com

© 2024 DEWALT. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question