Geko G81080

Geko G81080 14 L Duster Instruction Manual

Model: G81080

1. Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Geko G81080 14 L Duster. Please read this manual thoroughly before assembly, operation, or maintenance to ensure proper use and to prevent injury or damage to the product.

2. Safety Information

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Keep this manual for future reference.

- **Read all instructions:** Familiarize yourself with the controls and proper use of the equipment.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including eye protection, gloves, and hearing protection, when operating the duster.
- **Fuel Handling:** Handle fuel in a well-ventilated area, away from sparks or open flames. Use a 1:25 fuel-to-oil mixture for the engine.
- **Ventilation:** Operate the duster in well-ventilated outdoor areas only. Exhaust fumes contain carbon monoxide, which can be fatal.
- **Secure footing:** Ensure stable footing when operating, especially on uneven terrain.
- **Keep bystanders away:** Maintain a safe distance from other people and animals during operation.
- **Storage:** Store the duster and fuel in a cool, dry, well-ventilated area, out of reach of children.

3. Product Overview

The Geko G81080 is a backpack-mounted duster designed for efficient application of liquids or granules. It features a robust engine and a comfortable harness system.

Figure 3.1: Rear view of the Geko G81080 duster, showing the white tank, blue engine housing, and black backpack straps for comfortable carrying.

Figure 3.2: Side view of the duster, illustrating the compact design of the engine unit and its integration with the backpack frame.

Figure 3.3: Detail of the control levers, typically used for adjusting throttle and material flow rate during operation.

Figure 3.4: Engine label displaying key specifications such as capacity, discharge rates, range, fuel mixture, and power.

4. Setup and Assembly

Before operating the duster, ensure all components are correctly assembled and secured.

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all parts listed in the packing list are present.
2. **Ducting Assembly:** Connect the various sections of the air ducting and nozzle system. Ensure all clamps and connections are tight to prevent leaks and maintain optimal airflow.

Figure 4.1: Various components of the air ducting and nozzle system, ready for assembly.

3. **Nozzle Attachment:** Attach the desired nozzle to the end of the ducting. The duster includes a specialized nozzle with an impeller for efficient dispersion.

Figure 4.2: Detailed view of the duster's nozzle, featuring a white impeller designed to optimize the spread of materials.

4. **Fuel Mixture:** Prepare the fuel mixture using unleaded gasoline and 2-stroke engine oil at a ratio of 1:25 (1 part oil to 25 parts gasoline). Mix thoroughly in a separate, approved fuel container before pouring into the duster's fuel tank.
5. **Filling the Tank:** Open the cap of the 14 L material tank and carefully pour in the desired liquid or granular material. Do not overfill. Securely close the cap.
6. **Harness Adjustment:** Adjust the backpack straps to ensure a comfortable and secure fit. The duster should sit firmly on your back to distribute weight evenly.

Figure 4.3: Included tools and small parts for assembly and maintenance, such as wrenches, screwdrivers, and clamps.

5. Operating Instructions

Follow these steps for safe and effective operation of your Geko G81080 duster.

1. **Starting the Engine:**
    - Place the duster on a flat, stable surface.
    - Ensure the fuel tank is filled with the correct 1:25 fuel mixture.
    - Set the choke lever to the 'START' or 'CHOKE' position (usually indicated by an icon).
    - Set the throttle lever to a low idle position.
    - Pull the starter cord firmly and smoothly until the engine starts. Do not pull the cord to its full extension.
    - Once the engine starts, gradually move the choke lever to the 'RUN' position. Allow the engine to warm up for a few moments.
2. **Operating the Duster:**
    - Once the engine is running smoothly, put on the duster using the backpack straps.

- Adjust the throttle lever (Figure 3.3) to increase engine speed and airflow.
- Adjust the material flow rate lever (Figure 3.3) to control the amount of liquid or granules being dispersed.
- Direct the nozzle towards the target area, maintaining a safe distance. The duster has a spray range of approximately 11 meters.

3. **Stopping the Engine:**
    - Reduce the throttle to the idle position.
    - Engage the engine stop switch (refer to your specific unit for location, often a red button or switch).
    - Allow the engine to cool down before storage or maintenance.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your duster.

- **Air Filter:** Clean the air filter regularly, especially in dusty conditions. Remove the air filter cover, clean the filter element with compressed air or wash it with soapy water, then dry thoroughly before reinstallation.
- **Spark Plug:** Inspect the spark plug periodically. Clean any carbon deposits and adjust the gap if necessary. Replace if worn or fouled.
- **Fuel Filter:** Check the fuel filter for blockages. Replace if dirty or damaged.
- **Nozzle and Ducting:** After each use, clean the nozzle and ducting to prevent clogging, especially when using sticky or corrosive materials. Rinse with water if applicable.
- **General Cleaning:** Keep the exterior of the duster clean. Wipe down the engine and housing to remove dirt and debris.
- **Storage:** For long-term storage, drain the fuel tank and run the engine until it stops to clear the carburetor of fuel. Store in a dry, protected area.

Figure 6.1: Detailed view of the engine's carburetor, an area that requires periodic inspection and cleaning for optimal performance.

7. Troubleshooting

Refer to this section for common issues and their potential solutions.

Problem	Possible Cause	Solution
Engine does not start	No fuel or incorrect fuel mixture Choke not set correctly Spark plug fouled or damaged Air filter clogged	Fill with correct 1:25 fuel mixture Adjust choke lever Clean or replace spark plug Clean air filter
Low material discharge	Nozzle or ducting clogged Material tank empty Flow rate lever set too low	Clean nozzle and ducting Refill material tank Adjust flow rate lever
Engine runs poorly or stalls	Stale fuel Clogged fuel filter Dirty carburetor	Drain old fuel, refill with fresh mixture Replace fuel filter Clean carburetor

8. Specifications

Key technical specifications for the Geko G81080 14 L Duster.

Feature	Specification
Model Number	G81080
Manufacturer	Firma Handlowa GEKO
Material Tank Capacity	14 Liters
Liquid Discharge Rate	Approx. 4 L/min
Granule Discharge Rate	Approx. 6 L/min
Spray Range	Approx. 11 meters
Fuel Mixture	1:25 (Fuel:2-stroke oil)
Max Engine Speed	7500 RPM
Rated Power	2.13 kW
Measured Noise Level	107 dB(A)
Guaranteed Noise Level	112 dB(A)
Product Weight	11 kg
Package Dimensions	35 x 35 x 15 cm