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DK2 OPC506

DK2 6-inch 14 HP Gas Powered Kohler Engine Commercial Chipper Shredder OPC506 User Manual

Model: OPC506 | Brand: DK2

1. Introduction

This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your DK2 OPC506 6-inch 14 HP Gas Powered Kohler Engine Commercial Chipper Shredder. Please read this manual thoroughly before operating the machine to ensure proper use and to prevent injury or damage.

The DK2 OPC506 is designed for efficient processing of trees, branches, leaves, and other organic garden waste, converting them into mulch or compost material. It features a powerful Kohler engine, dual 13-inch reversible cutting blades, and a robust design for commercial applications.



Figure 1.1: Overview of the DK2 OPC506 Commercial Chipper Shredder. This image displays the complete assembly of the chipper shredder, highlighting its robust construction, large feed chute, engine, and towable chassis.

2. Safety Information

Operating this equipment without understanding and following safety precautions can result in serious injury or death. Always prioritize safety.

2.1 General Safety Rules

- Read and understand the entire manual before operation.
- Wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, gloves, and sturdy footwear.
- Never operate the machine under the influence of alcohol, drugs, or medication that impairs judgment.
- Keep children and bystanders at a safe distance (at least 50 feet) from the operating area.
- Inspect the machine before each use for loose parts, damage, or wear. Do not operate if damaged.
- Ensure all guards and safety devices are in place and functioning correctly.

- Operate only on level ground to prevent tipping.
- Do not allow material to accumulate around the engine or exhaust, as this can create a fire hazard.

2.2 Chipper/Shredder Specific Safety

- **DANGER:** Keep hands, feet, and clothing away from all moving parts, especially the feed chutes and discharge opening.
- Never reach into the feed chute or discharge opening while the engine is running.
- Feed material slowly and evenly. Do not force material into the machine.
- Be aware of kickback. Branches can be pulled into the machine quickly.
- Shut off the engine and ensure all moving parts have stopped before clearing clogs, performing maintenance, or making adjustments.
- Refuel in a well-ventilated area with the engine off and cool. Avoid spilling fuel.

3. Setup and Assembly

The DK2 OPC506 chipper shredder requires some assembly before its first use. Refer to the included assembly guide for detailed step-by-step instructions. Key assembly steps include attaching the wheels, axles, tow hitch, and ensuring all components are securely fastened.

3.1 Pre-Operation Checklist

1. **Engine Oil:** Check the engine oil level. Fill with recommended oil type (refer to Kohler engine manual) to the proper level.
2. **Fuel:** Fill the fuel tank with fresh, unleaded gasoline. Do not overfill.
3. **Tire Pressure:** Ensure tires are inflated to the recommended pressure.
4. **Blade Inspection:** Verify that the cutting blades are sharp and securely installed.
5. **Fasteners:** Check all nuts, bolts, and screws for tightness.
6. **Work Area:** Clear the work area of debris, obstacles, and bystanders.



Figure 3.1: Close-up view of the Kohler Command Pro 14 HP engine. This image highlights the engine's air filter, fuel cap, and general layout, crucial for pre-operation checks and maintenance.



Figure 3.2: Side view of the chipper shredder, showing the tow hitch and the quick-release latches for drum access. This view illustrates the machine's portability and ease of maintenance access.

4. Operating Instructions

4.1 Starting the Engine

1. Ensure the machine is on a stable, level surface.
2. Set the fuel valve to the "ON" position.
3. Move the choke lever to the "CHOKE" position (if the engine is cold).
4. Set the throttle lever to the "FAST" position.
5. Insert the ignition key and turn it to the "ON" position.
6. Pull the recoil starter handle firmly until the engine starts. Alternatively, use the electric start if equipped.
7. Once the engine starts, gradually move the choke lever to the "RUN" position.
8. Allow the engine to warm up for a few minutes before operating.

4.2 Feeding Material

- The machine has two feed chutes: a larger hopper for shredding leaves and small branches, and a smaller chute for chipping larger branches.
- **For Chipping:** Feed branches up to 6 inches in diameter into the dedicated chipping chute. Feed the material butt-end first. Do not force the material; allow the machine to pull it in.

- **For Shredding:** Feed smaller branches, leaves, and garden waste into the large hopper. Use a push paddle (not hands) to guide material if necessary.
- Avoid feeding rocks, metal, plastic, or other non-organic materials.
- Maintain a clear discharge area to prevent clogging.

4.3 Stopping the Engine

1. Reduce the engine speed to idle.
2. Turn the ignition key to the "OFF" position.
3. Turn the fuel valve to the "OFF" position.
4. Remove the ignition key to prevent unauthorized use.



Figure 4.1: View of the engine mounted on the chipper, showing the main feed chute opening. This image illustrates the proximity of the engine controls to the feeding area, emphasizing the need for careful operation.

5. Maintenance

Regular maintenance is crucial for the longevity and safe operation of your chipper shredder. Always shut off the engine, remove the ignition key, and disconnect the spark plug wire before performing any maintenance.

5.1 Engine Maintenance

- **Oil Change:** Change engine oil after the first 5 hours of operation, then every 25-50 hours or annually. Refer to the Kohler engine manual for specifics.
- **Air Filter:** Inspect and clean the air filter regularly, especially in dusty conditions. Replace if damaged.

- **Spark Plug:** Inspect and clean the spark plug annually or every 100 hours. Replace if worn.
- **Fuel System:** Use a fuel stabilizer if storing the machine for extended periods. Drain the fuel system before long-term storage.

5.2 Blade Maintenance

- The chipper features dual 13-inch cutting blades that are double-edge cut reversible. When one edge becomes dull, the blade can be flipped to use the second edge.
- Inspect blades for sharpness and damage before each use. Dull blades reduce performance and can strain the engine.
- To access blades, open the tool-free dual swing chutes. Follow the instructions in the assembly guide for safe blade removal and reinstallation.
- Replace blades if both edges are dull or if they are chipped or cracked.



Figure 5.1: Close-up view of the cutting chamber, showing the dual reversible blades. This image is critical for understanding blade inspection and maintenance procedures.

5.3 General Maintenance

- **Cleaning:** Clean the machine after each use, removing debris from the chutes, engine, and housing.
- **Lubrication:** Lubricate moving parts as indicated in the assembly guide.
- **Storage:** Store the chipper shredder in a dry, secure location, away from children and unauthorized users.

6. Troubleshooting

This section provides solutions to common operational issues. For problems not listed here, contact DK2 customer support.

Problem	Possible Cause	Solution
Engine does not start	No fuel; fuel valve off; choke incorrect; spark plug issue; low oil.	Check fuel level; open fuel valve; adjust choke; inspect spark plug; check oil level.
Poor chipping/shredding performance	Dull blades; engine speed too low; feeding too much material.	Inspect/reverse/replace blades; increase engine RPM; feed material slowly.
Machine clogs frequently	Wet material; feeding too fast; discharge chute blocked.	Allow material to dry; feed slower; clear discharge chute (engine off!).
Excessive vibration	Unbalanced blades; loose fasteners; damaged components.	Inspect blades for damage; tighten all fasteners; contact service if issue persists.

7. Specifications

The following specifications are for the DK2 OPC506 Commercial Chipper Shredder.

Feature	Detail
Model Number	OPC506
Engine	14 HP Kohler Gas Powered
Chipping Capacity	Up to 6 inches (diameter)
Cutting Blades	Dual 13-inch, double-edge cut reversible
Power Source	Gas Powered
Material	Alloy Steel
Item Weight	395 pounds
Product Dimensions (D x W x H)	85"D x 37"W x 48"H
Operation Mode	Automatic
Included Components	Chipper Shredder unit, Extended Axles, Trailer Tow Hitch, Steel Toolbox with safety materials and assembly tools.

8. Warranty and Support

For warranty information, please refer to the warranty card included with your product or visit the official DK2 website. Keep your purchase receipt as proof of purchase for any warranty claims.
For technical support, replacement parts, or further assistance, please contact DK2 customer service.

- **Manufacturer:** Detail K2
- **Brand:** DK2
- **Website:** Visit the DK2 Store on Amazon (for general product information)
- Refer to your product packaging or the DK2 official website for direct customer support contact details.

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