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› Cushman 4 HP Engine Operators Manual

Cushman 4 HP Engine

Cushman 4 HP Engine Operators Manual

Your guide to safe and efficient operation of your Cushman 4 HP Engine.

INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your Cushman 4 HP engine. To ensure safe and reliable performance, please read this manual thoroughly before operating the engine. Keep this manual in a safe place for future reference.

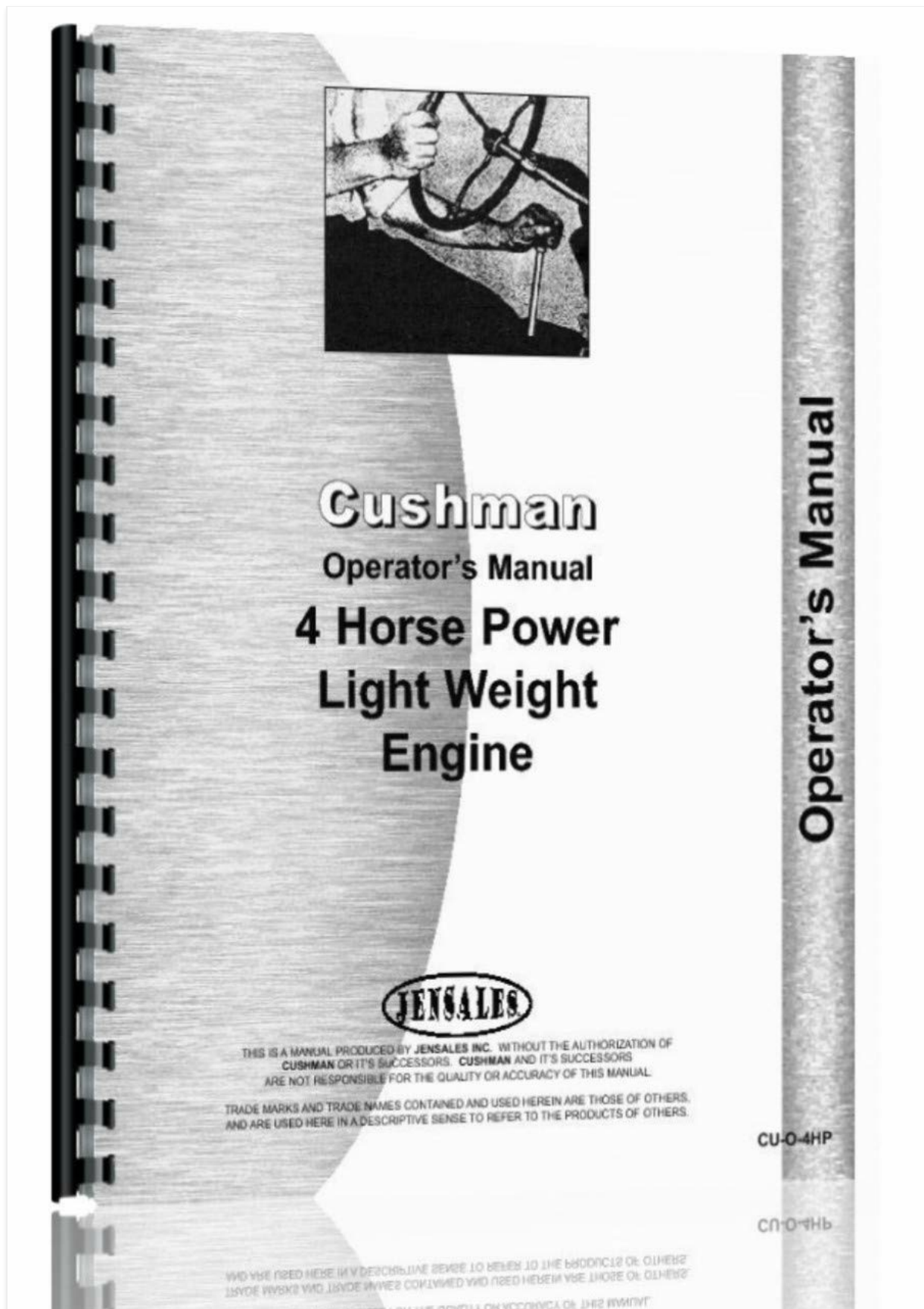


Image: Front cover of the Cushman 4 HP Engine Operators Manual. This image displays the title and branding of the manual itself.

SETUP

Unpacking

1. Carefully remove the engine from its packaging.

2. Inspect the engine for any signs of damage during shipping. Contact your dealer immediately if damage is found.
3. Ensure all included accessories and components are present. Refer to the packing list.

Fueling the Engine

Use only fresh, clean, unleaded gasoline with an octane rating of 87 or higher. Do not use E85 fuel.

1. Ensure the engine is off and cool before fueling.
2. Locate the fuel tank cap, usually marked with a fuel pump symbol.
3. Slowly remove the cap and fill the tank, leaving a small air gap at the top to allow for fuel expansion. Do not overfill.
4. Securely replace the fuel cap.

Checking Engine Oil Level

Proper oil level is crucial for engine longevity.

1. Place the engine on a level surface.
2. Locate the oil dipstick/fill cap.
3. Remove the dipstick, wipe it clean, and reinsert it without screwing it in (if applicable).
4. Remove the dipstick again and check the oil level. It should be between the 'ADD' and 'FULL' marks.
5. If low, add recommended engine oil (refer to specifications) slowly until the correct level is reached.
6. Securely replace the dipstick/fill cap.

OPERATING INSTRUCTIONS

Starting the Engine

1. Ensure the fuel valve is in the 'ON' position.
2. Move the choke lever to the 'CHOKE' position (if the engine is cold).
3. Set the throttle lever to the 'FAST' or 'START' position.
4. Pull the recoil starter handle slowly until resistance is felt, then pull firmly and quickly. Repeat if necessary.
5. Once the engine starts, gradually move the choke lever to the 'RUN' position as the engine warms up.

Stopping the Engine

1. Move the throttle lever to the 'SLOW' or 'IDLE' position.
2. Move the engine switch to the 'OFF' position.
3. Turn the fuel valve to the 'OFF' position for storage or extended periods of non-use.

MAINTENANCE

Regular maintenance is essential for optimal performance and extended engine life.

Regular Checks (Before Each Use)

- Check engine oil level.

- Inspect air filter for dirt or debris.
- Check fuel level.
- Inspect for loose fasteners or leaks.

Air Filter Cleaning

Clean the air filter every 25 hours of operation or more frequently in dusty conditions.

1. Remove the air filter cover.
2. Carefully remove the foam or paper filter element.
3. Clean foam filters with warm, soapy water, rinse, and allow to air dry completely. Lightly oil with engine oil before reinstallation.
4. Clean paper filters by tapping gently or using compressed air from the inside out. Replace if heavily soiled or damaged.
5. Reinstall the filter and cover.

Spark Plug Inspection

Inspect the spark plug every 50 hours of operation.

1. Remove the spark plug cap.
2. Using a spark plug wrench, remove the spark plug.
3. Inspect the electrode for wear, fouling, or carbon buildup.
4. Clean any deposits with a wire brush.
5. Check the spark plug gap using a feeler gauge. Adjust if necessary to the specified gap (refer to specifications).
6. Reinstall the spark plug and torque to specifications. Reattach the spark plug cap.

TROUBLESHOOTING

This section provides solutions to common operational issues.

Problem	Possible Cause	Solution
Engine will not start	No fuel; Choke not set; Spark plug fouled; Low oil level	Add fuel; Adjust choke; Clean/replace spark plug; Add oil
Engine runs rough	Dirty air filter; Stale fuel; Fouled spark plug	Clean/replace air filter; Drain and refill with fresh fuel; Clean/replace spark plug
Loss of power	Dirty air filter; Overloaded; Incorrect throttle setting	Clean/replace air filter; Reduce load; Adjust throttle

SPECIFICATIONS

Key technical specifications for the Cushman 4 HP Engine.

- **Engine Type:** Single-cylinder, 4-stroke, air-cooled
- **Horsepower:** 4 HP
- **Fuel Type:** Unleaded gasoline (87+ octane)

- **Oil Type:** SAE 10W-30 (or as recommended for ambient temperature)
- **Oil Capacity:** Approximately 0.6 liters (20 oz)
- **Spark Plug Gap:** 0.7 - 0.8 mm (0.028 - 0.031 in)

WARRANTY AND SUPPORT

This Cushman 4 HP engine is covered by a limited warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the warranty card included with your engine or contact your authorized Cushman dealer. For technical support or service, please contact your local dealer or visit the official Cushman website.