

Craftsman Self Propelled Lawn Mower Repair Manual



Operator's Manual



Riding Mower
Internal Bagging System
27.5" Cutting Deck
Model 247.270190
Factory No. 13A-328-402

IMPORTANT: Read safety rules and instructions carefully before operating equipment.

Warning: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest engine authorized service dealer or contact the service department, P.O. Box 368022 Cleveland, Ohio 44136-9722.

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Craftsman self propelled lawn mower repair manual is an essential resource for DIY enthusiasts and homeowners who want to maintain and repair their lawn mowers effectively. Whether you're dealing with a minor issue or a major malfunction, having access to a comprehensive repair manual can save you time, money, and frustration. In this article, we will explore the key components of a Craftsman self-propelled lawn mower, common issues that may arise, troubleshooting tips, and step-by-step repair instructions, all designed to help you keep your mower in optimal condition.

Understanding Your Craftsman Self-Propelled Lawn Mower

Craftsman is a well-known brand that offers a variety of self-propelled lawn mowers equipped with powerful engines and user-friendly features. Understanding the different components of your mower is crucial for effective repairs. Here are the main parts you should be familiar with:

- **Engine:** The heart of the mower that powers the blades and self-propelling mechanism.
- **Transmission:** Responsible for transferring power from the engine to the wheels, allowing the mower to move forward.
- **Blades:** Sharp metal components that cut the grass; they require regular sharpening and maintenance.
- **Deck:** The housing that contains the blades and engine; it protects these components from debris and damage.
- **Wheels:** Allow the mower to move; they can wear out or become damaged over time.
- **Fuel System:** Includes the gas tank, fuel lines, and carburetor, which may require cleaning or replacement periodically.
- **Air Filter:** Prevents debris from entering the engine; it should be cleaned or replaced regularly.

Common Problems with Craftsman Self-Propelled Lawn Mowers

Even the most reliable mowers can encounter issues over time. Here are some common problems you might face with your Craftsman self-propelled lawn mower:

1. Engine Won't Start

This is one of the most frustrating issues for any mower owner. Factors that could contribute to this problem include:

- Empty fuel tank
- Clogged fuel lines
- Dirty air filter
- Faulty spark plug

2. Mower Won't Self-Propel

If your mower is reluctant to move forward, the problem may lie within the transmission or drive system. Potential causes include:

- Worn drive belt
- Damaged wheels
- Transmission issues

3. Uneven Cutting

If your lawn mower leaves patches of uncut grass or does not cut evenly, consider the following:

- Dull blades
- Uneven tire pressure
- Incorrect cutting height

4. Excessive Vibration

Vibration can be a sign of multiple issues, including:

- Loose components
- Worn or damaged blades
- Unbalanced wheels

Troubleshooting Tips for Common Mower Issues

Before diving into repairs, it's wise to troubleshoot the issue to pinpoint the cause. Here are some tips:

1. **Check the Fuel:** Ensure that there is enough fuel in the tank and that it isn't old. Old fuel can lead to starting issues.
2. **Inspect the Spark Plug:** Remove and inspect the spark plug for wear or buildup. Replace it if necessary.
3. **Examine the Air Filter:** A dirty air filter can restrict airflow, affecting performance. Clean or replace as needed.
4. **Inspect the Blades:** Check for dullness or damage and sharpen or replace the blades accordingly.
5. **Look for Leaks:** Inspect the fuel lines and carburetor for any leaks that might cause fuel

delivery problems.

Step-by-Step Repair Instructions

Once you've diagnosed the problem, you can move on to repairs. Here's how to address some of the common issues mentioned earlier:

Repairing an Engine That Won't Start

1. Check Fuel Supply: If the tank is empty, fill it with fresh gas.
2. Inspect the Fuel Lines: Look for clogs or leaks. Clean or replace lines as necessary.
3. Examine the Spark Plug:
 - Remove the spark plug using a wrench.
 - Clean any buildup with a wire brush.
 - Replace the spark plug if it appears damaged.
4. Check the Air Filter: Remove the air filter and clean it or replace it if it's too dirty.

Fixing the Self-Propel Mechanism

1. Inspect the Drive Belt:
 - Remove the mower deck for access.
 - Check the drive belt for wear and replace it if necessary.
2. Check the Wheels:
 - Ensure they are securely attached and not damaged.
 - Replace any wheels that are worn out.

Sharpening the Blades

1. Remove the Blades: Use a socket wrench to remove the bolts holding the blades in place.
2. Sharpen the Blades: Use a file or a blade sharpener to sharpen the edges. Ensure you maintain the original angle.
3. Reattach the Blades: Secure them back onto the mower, ensuring they are tightly fastened.

Preventative Maintenance Tips

To avoid the need for extensive repairs, regular maintenance is key. Here are some preventative steps:

- Change the oil regularly, typically at the beginning of the mowing season.
- Clean the mower deck after each use to prevent grass buildup.
- Store the mower in a dry place to protect it from rust.
- Inspect and replace the air filter and spark plug annually.
- Check tire pressure regularly for optimal performance.

Conclusion

Having a **Craftsman self propelled lawn mower repair manual** can be invaluable for troubleshooting and repairing your mower effectively. By understanding your mower's components, recognizing common issues, and following the troubleshooting and repair tips provided, you can ensure that your lawn mower remains in excellent condition for years to come. Regular maintenance not only extends the life of your mower but also keeps your lawn looking its best. With the right knowledge and tools, you can tackle most repairs and enjoy a well-manicured lawn all season long.

Frequently Asked Questions

What are the common issues that can be found in a Craftsman self-propelled lawn mower?

Common issues include engine starting problems, the mower not self-propelling, uneven cutting, and issues with the blade not spinning. These can often be traced back to fuel issues, worn belts, or clogged air filters.

Where can I find a repair manual for my Craftsman self-propelled lawn mower?

You can find repair manuals on the official Craftsman website, or through retailer websites like Amazon. Additionally, you may find PDF versions available on various repair forums and websites dedicated to lawn mower repairs.

How often should I perform maintenance on my Craftsman self-propelled lawn mower?

Maintenance should ideally be performed at the beginning of each mowing season. This includes changing the oil, replacing the air filter, sharpening the blades, and checking the spark plug. Regular checks throughout the season are also recommended.

What tools do I need for basic repairs on a Craftsman self-propelled lawn mower?

Basic tools include a socket set, wrenches, a screwdriver set, a spark plug wrench, and a lawn mower blade sharpener. Having a multimeter can also help for electrical troubleshooting.

Can I fix a self-propelling issue on my Craftsman lawn mower myself?

Yes, many self-propelling issues can be fixed at home. Start by checking the drive belt for wear, ensuring the wheels are not obstructed, and inspecting the cable connections. If you're unsure, consult the repair manual for detailed troubleshooting steps.

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