GENERAL

stihl ts 400 repair manual

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Introduction

When you own a **Stihl TS 400** chainsaw, you know that it's a reliable companion for cutting through wood, clearing brush, and tackling tough landscaping jobs. Over time, however, even the most well maintained tool can develop issues that require professional attention or hands on repairs. That's where a **Stihl TS 400 repair manual** becomes invaluable. It's more than a collection of diagrams and specifications; it's a roadmap that guides you through troubleshooting, maintenance, and repair with confidence and precision.

In this comprehensive guide, we'll explore why a repair manual is essential, what key sections you'll find inside, and how to use it to keep your TS 400 running like new. Whether you're a seasoned contractor or a DIY enthusiast, mastering the contents of a repair manual will save you time, money, and frustration.

About the Stihl TS 400 Chainsaw

The **Stihl TS 400** is a popular model in the Stihl lineup, known for its robust 400 cc engine, ergonomic design, and high performance. It's often chosen for heavy duty tasks such as felling large trees, trimming stumps, and processing lumber. Its features include:

- Engine Power: 400 /cc, 4 stroke, air cooled
- Chain Speed: 3.2 /m/s (10 /ft/s) on a standard 3 in chain
- Fuel Capacity: 0.8 /L (0.21 /gal)
- Weight: 4.7 /kg (10.4 /lb) – a lightweight option for extended use
- Safety Features: Automatic chain brake, anti kickback guard, and a low fuel indicator

Because of its versatility and durability, the TS 400 is a common sight on job sites. But like any mechanical device, it can experience wear and tear. That's why a repair manual is a critical asset for anyone who wants to maintain or restore this chainsaw.

Why You Need a Stihl TS 400 Repair Manual

Having a repair manual at hand offers several advantages:

- Accurate Troubleshooting: The manual provides diagnostic flowcharts that help pinpoint problems quickly.
- Safety Assurance: It contains safety warnings and precautions for every repair step.
- Part Identification: Detailed part numbers and specifications prevent costly mistakes when ordering replacements.
- Time & Cost Savings: With a step by step guide, you can fix issues yourself rather than sending the tool to a shop.
- Extended Tool Life: Regular maintenance guided by the manual keeps the chainsaw in peak condition for years.

Key Sections Covered in the Manual

A comprehensive Stihl TS 400 repair manual typically includes the following sections:

1. Safety & Maintenance Guidelines

This section outlines the safety protocols for handling the chainsaw, including wearing protective gear, proper storage, and emergency procedures.

2. Engine Overview & Operation

Here you'll find a detailed description of the 400 cc engine, its components, and how to start, stop, and maintain it.

3. Chainsaw Components & Assembly

Illustrations and descriptions of the guide bar, chain, fuel system, electrical components, and more.

4. Troubleshooting Flowcharts

Step by step decision trees that help diagnose common problems such as low chain speed, stalling, or oil leaks.

5. Repair & Replacement Procedures

Detailed instructions for replacing spark plugs, cleaning the carburetor, fixing chain tension, and more.

6. Maintenance Schedules

Recommended intervals for oil changes, chain sharpening, and inspection checks.

7. Parts Catalog

Part numbers, OEM identifiers, and supplier information for all replacement parts.

Step by Step Repair Guide Using the Manual

Below is a practical example of how to use the manual to solve a common issue: a chain that runs too slow or stalls.

Diagnosing Low Chain Speed

1. Check Fuel Level: The manual advises checking the fuel gauge first. Empty or stale fuel can cause low speed.
2. Inspect the Spark Plug: Use a multimeter to test continuity. The manual lists the recommended resistance range for the TS 400 spark plug.
3. Clean the Carburetor: Follow the manual's cleaning procedure, which includes removing the carburetor, disassembling it, and using a carburetor cleaner.
4. Adjust the Idle Speed: The manual provides the correct idle screw torque and adjustment range.
5. Re assemble and Test: After completing the above steps, reassemble the parts, start the chainsaw, and confirm that the chain speed is back to normal.

By following the manual's instructions, you can address the problem efficiently and avoid unnecessary part replacements.

Where to Find the Stihl TS 400 Repair Manual

Finding an authentic repair manual is essential for accurate repairs. Below are reliable sources:

- Stihl Official Website: Visit the Stihl Support Center and enter your model number to download the PDF.
- Authorized Dealers: Many authorized Stihl dealers provide printed manuals or digital copies upon request.
- Reputable Third Party Sites: Websites like Chainsaw Repair Manuals or ToolMania host PDFs for download. Verify that the file is from a reputable source.
- Online Marketplaces: Platforms such as eBay or Amazon may sell used copies of the manual. Look for listings that include a PDF or a physical copy in good condition.

Always ensure that the manual matches your specific model and year of the TS 400, as small variations can exist between revisions.

Tips for Effective Use of the Manual

To get the most out of your repair manual, keep these tips in mind:

- Keep It Handy: Store a printed copy in a waterproof folder or keep the PDF on a tablet for quick reference.
- Use the Index: The manual's index lists parts and troubleshooting topics for fast lookup.
- Follow Safety Precautions: Never skip the safety warnings; they're there to protect you.
- Mark Your Page: Use sticky tabs or bookmarks to mark frequently referenced sections.
- Update When Needed: If you find a newer revision, replace the old manual to ensure you have the latest information.

Common Repairs & Maintenance Tasks

Below are detailed repair steps for some of the most common issues you might encounter with a Stihl TS 400.

1. Replacing the Spark Plug

1. Turn off the chainsaw and remove the spark plug wire.
2. Use a spark plug wrench to unscrew the old plug.
3. Check the gap on the new plug using a gap gauge; set it to the manufacturer's specification.
4. Screw the new plug in by hand and tighten it to the recommended torque (typically 8 /Nm).
5. Reconnect the spark plug wire and test the chainsaw.

2. Cleaning or Replacing the Carburetor

1. Remove the carburetor by unscrewing the mounting bolts.
2. Disassemble the carburetor, paying attention to the float bowl and needle valve.
3. Soak the parts in carburetor cleaner and rinse with distilled water.
4. Check the jets for clogs; clean or replace them as needed.
5. Reassemble, re install, and adjust the idle as per the manual.

3. Adjusting Chain Tension

1. Lift the guide bar to relieve tension.
2. Locate the tension adjustment screw on the bar.
3. Turn the screw to tighten or loosen the chain until it has a 5 /mm (0.2 /in) clearance when pressed.
4. Re install the bar and verify chain speed and safety.

4. Replacing the Guide Bar

1. Remove the old guide bar by unscrewing the bar bolts.
2. Clean the mounting surface and inspect for damage.
3. Attach the new bar, tighten the bolts to the specified torque, and ensure the bar is level.
4. Re install the chain and adjust tension.

Troubleshooting Chart

Use the following quick reference to diagnose and address common issues. The manual's flowcharts are the most detailed, but this summary can help you narrow down the problem before you dive deeper.

- Chainsaw Won't Start: Check fuel level, spark plug, and choke operation.
- Low Chain Speed: Inspect fuel, spark plug, carburetor, and idle setting.

- Chain Stalls: Verify oil level, inspect the throttle, and check for engine overheating.
- Oil Leak: Inspect the oil seal, gasket, and oil filter.
- Unusual Noise: Check chain tension, guide bar alignment, and engine bearings.

Frequently Asked Questions

What is the best way to store a Stihl TS 400 when not in use?

Store the chainsaw in a dry, ventilated area. Remove the fuel cap, drain any old fuel, and apply a light coat of oil to the engine to prevent corrosion.

Can I use aftermarket

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