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arctic cat snowmobile kawasaki model t5a engine parts list catalog manual 872

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Introduction

When you strap on your snowshoes and hit the powder, the roar of a high performance engine can turn a simple ride into an unforgettable adventure. For enthusiasts of the Arctic Cat snowmobile, the Kawasaki Model T5A engine is a standout piece of engineering that delivers power, reliability, and a touch of classic design. Whether you're a seasoned rider, a mechanic, or just curious about the inner workings of your machine, understanding the **arctic cat snowmobile kawasaki model t5a engine parts list catalog manual 872**is essential. This guide will walk you through the engine's architecture, provide a detailed parts inventory, explain where to find official documentation, and share practical maintenance and troubleshooting tips. By the end, you'll feel confident in diagnosing issues, sourcing replacements, and keeping your T5A running smooth for countless seasons.

Understanding the Arctic Cat Snowmobile Kawasaki Model T5A

The Arctic Cat brand has long been synonymous with quality snowmobiles, and the Kawasaki Model T5A engine is no exception. Introduced in the early 1990s, this two stroke, 12.5 hp engine became a favorite among riders who valued a lightweight, compact powerplant that still delivered robust performance. Its design incorporates a simple yet effective valve system, a reliable carburetion setup, and a durable crankcase that can handle the harsh winter environment.

Key features include:

- Displacement: 12.5 cubic inches (205 cc)
- Power Output: 12.5 horsepower at 10,000 RPM
- Weight: Approximately 23 pounds (10.4 kg)
- Construction: Cast aluminum block with steel cylinder head
- Fuel System: Single carburetor with adjustable jetting

These attributes make the T5A a versatile engine that can be found in a variety of Arctic Cat models, from the lightweight Scout to the more robust 700 series. Its compact size and low weight are especially beneficial for riders who prioritize agility and speed on packed snow.

The 872 Engine: Performance and Design

While the T5A is a distinct engine, many enthusiasts refer to the 872 series as a comparable or upgraded variant, often featuring improved fuel efficiency and a higher compression ratio. The 872 designation typically indicates a specific set of performance enhancements, such as a revised piston design, upgraded valve springs, and a more aggressive cam profile. These changes translate into smoother power delivery, better throttle response, and increased longevity under heavy use.

Performance highlights of the 872 engine include:

- Higher Compression Ratio: 10:1 vs. 9:1 in earlier models

- Improved Fuel Economy: Up to 10% better on average
- Reduced Vibration: Advanced balancing techniques
- Enhanced Cooling: Optimized fin design for better heat dissipation

For riders who push their snowmobiles to the limits—whether in racing, off road exploration, or simply long distance travel—the 872's refined characteristics can make a noticeable difference in both performance and durability.

Engine Parts List: What You Need to Know

Having a comprehensive parts list is vital for troubleshooting, routine maintenance, or full engine rebuilds. Below is a detailed inventory of the key components found in the Arctic Cat snowmobile Kawasaki Model T5A, often referenced in the **arctic cat snowmobile kawasaki model t5a engine parts list catalog manual 872**. This list covers everything from the most obvious parts to the smaller, often overlooked components that keep the engine humming.

- Engine Block – Cast aluminum core housing pistons and crankshaft.
- Crankshaft – Steel shaft with precision bearings.
- Pistons – Forged aluminum with rubber rings.
- Connecting Rods – Lightweight alloy rods connecting pistons to crankshaft.
- Cylinder Head – Steel with integrated valve springs.
- Valves – Intake and exhaust valves made of stainless steel.
- Valve Springs – High strength springs ensuring valve closure under high RPM.
- Camshaft – Single cam with dual roller bearings.
- Carburetor – Single carburetor with adjustable jetting.
- Fuel Filter – Pre fuel filter to protect the carburetor.
- Oil Pump – Mechanical pump providing 2.5 L/min at 10,000 RPM.
- Oil Filter – High capacity filter for engine oil.
- Spark Plug – 10mm spark plug with copper tip.
- Ignition Coil – Single coil providing 4,000 V spark.
- Timing Chain – Durable chain connecting camshaft and crankshaft.
- Timing Chain Tensioner – Ensures proper chain tension.
- Flywheel – Lightweight aluminum flywheel.
- Oil Pan – Bottom housing for oil reservoir.
- Oil Drain Plug – Standard 4mm bolt.
- Crankcase Gasket – High temperature silicone seal.
- Head Gasket – Dual layer composite gasket.
- Compression Test Gauge – Tool for measuring cylinder compression.
- Timing Markers – Visual indicators for proper alignment.
- Valve Cover – Aluminum cover protecting valve train.
- Valve Cover Gasket – Rubber gasket ensuring seal.
- Air Intake Tube – Stainless steel tube.
- Throttle Linkage – Adjustable linkage connecting throttle to carburetor.
- Engine Mounts – Rubber mounted brackets securing engine to chassis.
- Cooling System – Radiator, hoses, and fan for liquid cooling variants.
- Exhaust Manifold – Aluminum manifold directing exhaust gases.
- Exhaust Pipe – Stainless steel pipe with heat shield.
- Throttle Body – Adjustable throttle body for fine tuning.

Catalog and Manual: Where to Find Official Documentation

Accessing the official catalog and user manual is essential for accurate part identification, proper installation procedures, and safety compliance. The **arctic cat snowmobile kawasaki model t5a engine parts list catalog manual 872** can be found through several reputable channels:

1. Arctic Cat Official Website – The manufacturer's portal offers downloadable PDFs for each model year, including parts catalogs and maintenance manuals.
2. Authorized Dealerships – Visiting an Arctic Cat dealer provides physical copies and the opportunity to ask specialized questions.
3. Online Parts Retailers – Sites like SnowmobileParts.com and PartsPlanet.com host searchable databases keyed to specific engine models.
4. Forums and Communities – Enthusiast forums such as SnowmobileForum.com often host user generated PDFs and scanned manuals.
5. eBay and Amazon – Rare or out of print manuals can be purchased from third party sellers.

When searching, use exact model identifiers (e.g., "T5A 12.5hp" or "872 engine") to ensure you retrieve the correct documentation. Having the proper manual on hand not only speeds up repairs but also helps prevent costly mistakes.

Maintenance Tips for the T5A Engine

Regular maintenance is the cornerstone of a reliable snowmobile engine. Below are step by step guidelines tailored to the Kawasaki Model T5A, ensuring you keep the engine running smoothly throughout the winter season.

- Pre Season Inspection\\n\\nCheck oil level and condition; replace if cloudy or contaminated.
- Inspect the spark plug; replace if fouled or worn.
- Verify carburetor jets are clean; clean or replace if clogged.
- Examine the fuel filter; replace if dirty.
- Inspect the air filter; clean or replace as needed.
- Check all bolts and fasteners for tightness.

1. Change engine oil every 50 hours of use or every 30 days, whichever comes first.
2. Use the recommended oil viscosity (typically 10W 30 for winter temperatures).
3. Flush the oil pan and replace the oil filter each time.

1. Remove the carburetor and disassemble the float bowl.
2. Clean all jets with carburetor cleaner.
3. Check the float height and adjust if necessary.
4. Reassemble and test on a bench or in the field.

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