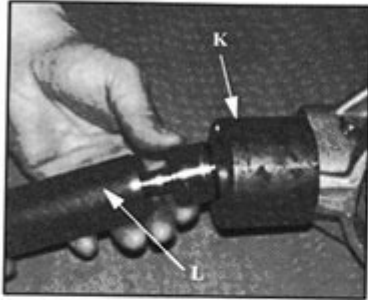


Polaris Sportsman 400 Atv Manual

BODY / STEERING / SUSPENSION

8. Install puller guide (G) with extension cap (H).
9. Apply grease to extension cap and threads of puller bolt to ease removal.
10. Thread bolt (J) with nut (I) onto ball joint stud as shown.
11. Apply heat to ease removal.
12. Hold bolt (J) and turn nut (I) clockwise until ball joint is removed from strut housing.



13. To **install** a new ball joint, Remove extension cap and attach puller guide using short bolts provided in the kit.
14. Remove extension cap and attach puller guide using short bolts provided in the kit.
15. Insert new ball joint (K) into driver (L).
16. Slide ball joint/driver assembly into guide.
17. Apply heat to ease installation.
18. Drive new joint into strut housing until fully seated.
19. Apply Loctite™ 242 (PN 2871949) to threads of retaining plate screws or install new screws with pre-applied locking agent. Torque screws to specification.



Retaining Screw Torque: 8 ft. lbs. (11 Nm)

20. Install A-arm on ball joint and torque castle nut to specification.



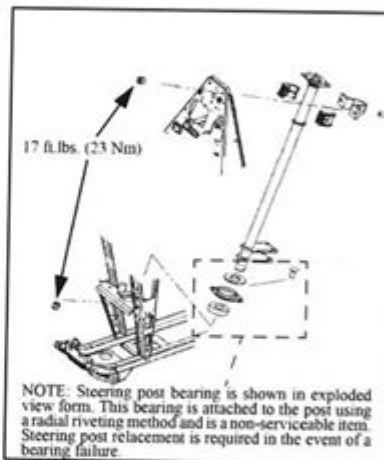
Castle Nut Torque: 30 ft. lbs. (41 Nm)

21. Reinstall cotter pin with open ends toward rear of machine.

Steering Post Removal

1. Remove the front cab.
2. Remove the handle bar pod.
3. Remove the handle bar.
4. Remove the fuel tank bracket assembly.
5. Remove the steering tie rod ends from the steering bracket. Note the orientation of the fasteners and bracket on the steering assembly.
6. Remove the steering post nuts at the mount plate.
7. Remove the top steering bracket.
8. Remove the steering post.

Steering Post Assembly



1. Install the steering post.
2. Install the steering post nuts at the mount plate.
3. Install the top steering bracket.
4. Torque all fasteners to specification.
5. Install the steering tie rod ends from the steering bracket, noting the orientation of the fasteners and bracket on the steering assembly.
6. Install the fuel tank bracket, handle bar and pod. Torque fasteners to specification.
7. Check the steering, the handle bars must move freely and easily from full left to full right without binding.
8. Install front cab.

Polaris Sportsman 400 ATV Manual

The Polaris Sportsman 400 is a popular all-terrain vehicle (ATV) known for its versatility, power, and user-friendly features. Whether you use it for recreational riding, work, or utility purposes, understanding the intricacies of your Sportsman 400 is essential for optimal performance and longevity. This article will cover the essential components of the Polaris Sportsman 400 ATV manual, including maintenance, operation, troubleshooting, and safety tips.

Overview of the Polaris Sportsman 400

The Polaris Sportsman 400 was introduced as a robust entry into the ATV market, offering a blend of power and agility. With its 400cc engine, independent rear suspension, and a host of features designed for comfort and control, it is ideal for both novice riders and experienced enthusiasts. The Sportsman 400 is equipped to handle various terrains, making it a reliable choice for outdoor adventures.

Key Specifications

- Engine: 400cc liquid-cooled, single-cylinder, four-stroke
- Transmission: Automatic PVT with low, high, neutral, reverse, and park
- Drive System: On-demand all-wheel drive (AWD)
- Suspension: Independent front and rear suspension
- Brakes: Hydraulic disc brakes
- Fuel Capacity: Approximately 4.3 gallons
- Towing Capacity: 1,225 lbs (varies with model year)

Understanding the Owner's Manual

The owner's manual for the Polaris Sportsman 400 is an invaluable resource that provides detailed information about the vehicle's operation and maintenance. Below are some critical sections typically found in the manual.

1. Safety Information

Safety should be a top priority when operating an ATV. The manual provides guidelines to ensure the safety of the rider and passengers:

- Always wear a helmet and appropriate protective gear.
- Never operate the ATV under the influence of drugs or alcohol.
- Follow local laws and regulations regarding ATV use.
- Be aware of your surroundings and avoid riding in hazardous conditions.
- Do not carry passengers unless the ATV is designed for it.

2. Pre-Ride Inspection

Before riding, perform a thorough inspection of your Sportsman 400:

1. Tires: Check for proper inflation and tread wear.
2. Brakes: Ensure that both front and rear brakes are functioning correctly.

3. Lights: Test headlights, taillights, and turn signals.
4. Fluid Levels: Verify the levels of engine oil, coolant, and brake fluid.
5. Battery: Check for corrosion and secure connections.

Maintenance Schedule

Regular maintenance is crucial to keep your Polaris Sportsman 400 running smoothly. The manual typically outlines a maintenance schedule based on hours of operation or mileage. Below is a general maintenance checklist:

Every 50 Hours or 100 Miles

- Change engine oil and filter.
- Inspect air filter and clean or replace as necessary.
- Check and adjust drive belt tension.
- Inspect and lubricate all pivots and joints.

Every 100 Hours or 200 Miles

- Inspect brake pads for wear.
- Check the battery condition and clean terminals.
- Inspect tires for wear and damage.
- Verify the condition of the fuel system and inspect fuel lines for leaks.

Every 300 Hours or 600 Miles

- Change transmission oil.
- Inspect and clean the cooling system.
- Check all electrical connections and harnesses.
- Inspect the exhaust system for leaks or damage.

Operating the Polaris Sportsman 400

Operating an ATV requires knowledge of its controls and features. The owner's manual provides essential information on how to start, operate, and stop the vehicle safely.

Starting the Engine

1. Ensure the ATV is in neutral.
2. Turn the fuel petcock to the "ON" position (if equipped).
3. Insert the key and turn it to the "ON" position.
4. Pull the choke (if applicable) and press the start button.
5. Allow the engine to warm up before riding.

Driving Techniques

- Acceleration: Gradually apply pressure to the throttle for smooth acceleration.
- Turning: Lean into turns to maintain balance and control.
- Braking: Use both front and rear brakes for effective stopping power.
- Climbing and Descending Hills: Shift your weight forward when climbing and lean back when descending.

Troubleshooting Common Issues

If you encounter problems while operating your Sportsman 400, refer to the troubleshooting section of the manual. Here are some common issues and potential solutions:

1. Engine Won't Start

- Check the battery: Ensure it is charged and connections are secure.
- Inspect the kill switch: Make sure it is in the "ON" position.
- Examine the fuel system: Verify fuel is reaching the engine.

2. Poor Performance or Power Loss

- Air filter: Check if it needs cleaning or replacement.
- Fuel quality: Ensure you are using the correct fuel type.
- Exhaust system: Inspect for blockages or damage.

3. Overheating

- Coolant levels: Check and top off as necessary.
- Radiator: Inspect for dirt or debris blocking airflow.
- Fan operation: Ensure the cooling fan is functioning.

Storage and Winterization

Proper storage and winterization of your Polaris Sportsman 400 are vital to protect it from the elements and maintain its performance.

1. Cleaning

Before storing, wash the ATV thoroughly to remove dirt and grime. Pay special attention to the undercarriage and suspension components.

2. Maintenance Before Storage

- Change the engine oil and filter.
- Fill the fuel tank and add a fuel stabilizer.
- Disconnect the battery and store it in a cool, dry place.
- Inflate tires to the recommended pressure.

3. Covering the ATV

Use a breathable cover to protect the ATV from dust and moisture while stored.

Conclusion

The Polaris Sportsman 400 ATV manual is a comprehensive guide that every owner should be familiar with. Understanding the specifications, maintenance schedules, operational techniques, and troubleshooting tips can significantly enhance your experience with this versatile vehicle. By prioritizing safety and regular maintenance, you can ensure that your Sportsman 400 will provide years of reliable service, whether you're hitting the trails or tackling tough jobs around the farm. Remember, a well-maintained ATV not only performs better but also enhances the overall riding experience.

Frequently Asked Questions

What is the purpose of the Polaris Sportsman 400 ATV manual?

The manual provides essential information on the operation, maintenance, and troubleshooting of the Polaris Sportsman 400 ATV.

Where can I find a PDF version of the Polaris Sportsman 400 ATV manual?

You can typically find a PDF version of the manual on the official Polaris website or through authorized Polaris dealers.

How often should I perform maintenance according to the Polaris Sportsman 400 ATV manual?

The manual recommends performing maintenance every 100 miles or at least once a year, whichever comes first.

What type of oil is recommended for the Polaris Sportsman 400 ATV?

The manual usually recommends using 5W-50 synthetic oil for optimal performance in the Polaris Sportsman 400 ATV.

Are there any specific safety precautions mentioned in the Polaris Sportsman 400 ATV manual?

Yes, the manual includes safety precautions such as wearing a helmet, avoiding steep inclines, and not carrying passengers unless the ATV is designed for it.

How do I troubleshoot starting issues with my Polaris Sportsman 400 ATV?

The manual provides a troubleshooting section that suggests checking the battery, fuel levels, and fuses if the ATV fails to start.

What should I do if my Polaris Sportsman 400 ATV makes unusual noises?

Refer to the manual's troubleshooting section, which advises checking for loose components, low oil levels, or worn parts.

Can I download the Polaris Sportsman 400 ATV manual for free?

While some websites may offer free downloads, it is best to obtain the manual through the official Polaris site to ensure you have the correct and most up-to-date version.

What are the recommended tire pressures for the Polaris Sportsman 400 ATV?

The manual specifies the ideal front tire pressure to be around 5-7 PSI and

the rear tire pressure to be approximately 5-8 PSI.

How do I change the oil in my Polaris Sportsman 400 ATV as per the manual?

The manual outlines the oil change procedure, which includes draining the old oil, replacing the oil filter, and adding new oil, while ensuring to check the oil level afterward.

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