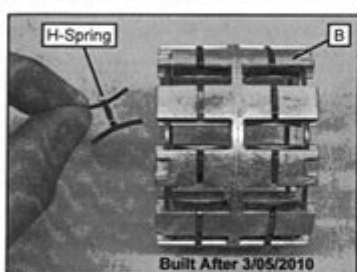
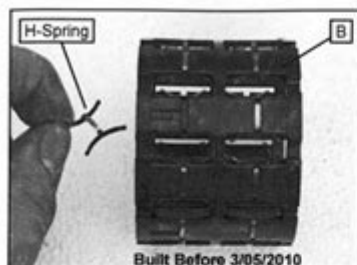


# Polaris Ranger 800 Service Manual

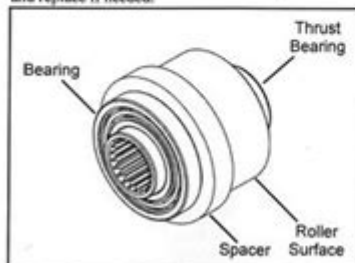
## FINAL DRIVE

14. Inspect the roll cage assembly (B) sliding surfaces and H-springs. The sliding surfaces must be clean and free of nicks, burrs or scratches. If damaged, replace the roll cage assembly.



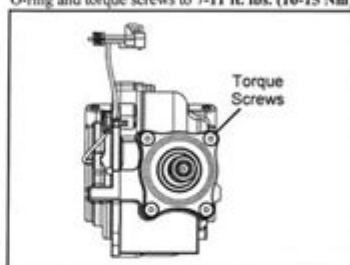
15. Inspect clutch housing ring gear (C) for a consistent wear pattern. Inspect the ring gear for chipped, broken, or missing teeth.

16. Inspect both output hub assemblies. Inspect the bearings and replace if needed.



### Gearcase Assembly / Inspection

1. As mentioned during gearcase disassembly section, replace all O-rings, seals, and worn components.
2. Press the pinion shaft seal into the pinion cover, until the seal is flush with the sealing surface.
3. If bearing replacement was required, press new bearings on to the pinion shaft assembly.
4. Install pinion shaft, bearings, and pinion cover with new O-ring and torque screws to 7-11 ft. lbs. (10-15 Nm).

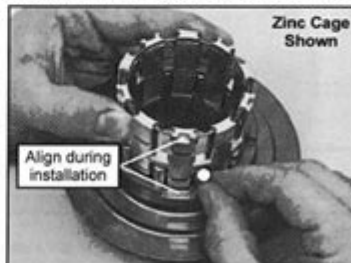


Pinion Cover Screws:  
7-11 ft. lbs. (10-15 Nm)

7

5. Carefully install the rollers into the roll cage assembly while installing the assembly into the clutch housing.

**NOTE:** Install the roll cage so that the ring gear grooves line up with the roll cage slots (see below).



**IMPORTANT:** To ensure gearcase is assembled properly, assemble the gearcase components starting with the cover plate and build upward.

7.23

Polaris Ranger 800 service manual is an essential resource for owners and mechanics alike, providing comprehensive guidance on the maintenance, repair, and operation of the Polaris Ranger 800 utility vehicle. This versatile UTV is popular for both recreational and work purposes, making it vital to keep it in optimal condition. The service manual offers detailed instructions and specifications that can help users prolong the life of their vehicle, enhance its performance, and ensure safety during operation.

# Overview of the Polaris Ranger 800

The Polaris Ranger 800 is a side-by-side utility vehicle known for its ruggedness and versatility. It is designed to handle a variety of tasks, whether on the farm, in the woods, or on the job site. With a powerful 800cc engine, ample cargo space, and a towing capacity that makes it suitable for heavy-duty use, the Ranger 800 is a preferred choice for many outdoor enthusiasts and professionals.

## Key Features

- Engine: 800cc twin-cylinder engine with EFI (Electronic Fuel Injection) for improved fuel efficiency and performance.
- Payload Capacity: Can carry up to 1,000 pounds in the cargo box.
- Towing Capacity: Capable of towing up to 2,000 pounds, making it ideal for trailers and heavy loads.
- Four-Wheel Drive: Equipped with on-demand all-wheel drive for enhanced traction in challenging terrains.
- Seating: Comfortable seating for two to four passengers, depending on the model.

## Importance of the Service Manual

The Polaris Ranger 800 service manual is crucial for a variety of reasons:

- Maintenance: Regular maintenance is key to the longevity of the vehicle. The manual outlines scheduled service intervals and procedures for tasks such as oil changes, filter replacements, and fluid checks.
- Troubleshooting: The manual provides a comprehensive troubleshooting guide to help diagnose common issues that may arise with the Ranger 800.
- Repair Instructions: Detailed step-by-step instructions for repairs give owners the confidence to perform complex tasks themselves, potentially saving on repair costs.

- **Safety Guidelines:** The manual outlines safety precautions and operational guidelines, ensuring that users can operate the vehicle safely and efficiently.

## **Maintenance Guidelines**

Regular maintenance is essential for keeping the Polaris Ranger 800 in top condition. Here are key areas to focus on:

### **1. Engine Maintenance**

- **Oil Changes:** Change the engine oil and filter every 50 hours or at least once a year, whichever comes first. Use the recommended oil type specified in the manual.
- **Air Filter:** Check and clean the air filter every 25 hours of operation or more frequently in dusty conditions. Replace it if it is damaged or excessively dirty.
- **Fuel System:** Inspect fuel lines and connections for leaks. Use high-quality fuel to prevent engine issues.

### **2. Drive Train and Suspension**

- **Drive Belt:** Inspect the drive belt for wear and replace it every 1,000 miles or as needed. A worn belt can lead to performance issues.
- **Suspension Components:** Regularly check suspension components for wear. Lubricate grease fittings as specified in the manual.

### 3. Brake System

- Brake Fluid: Check the brake fluid level regularly and top it off as needed using the recommended brake fluid type.
- Brake Pads: Inspect brake pads for wear every 50 hours. Replace them if they are worn down to the minimum thickness.

### 4. Electrical System

- Battery Maintenance: Inspect the battery terminals for corrosion and ensure they are securely connected. Clean as necessary.
- Fuses: Regularly check fuses and replace any that are blown to ensure all electrical components function properly.

## Troubleshooting Common Issues

Even with regular maintenance, issues can arise. Here are some common problems and troubleshooting steps:

### 1. Engine Won't Start

- Check Battery: Ensure the battery is charged and terminals are clean.
- Fuel Supply: Verify that there is fuel in the tank and that the fuel valve is open.
- Ignition System: Inspect the ignition switch and starter for faults.

## 2. Poor Performance or Lack of Power

- Dirty Air Filter: A clogged air filter can restrict airflow. Clean or replace as needed.
- Fuel Quality: Ensure the fuel is fresh and free from contaminants.
- Drive Belt Issues: Inspect the drive belt for wear or damage that may affect performance.

## 3. Overheating

- Coolant Levels: Check and maintain appropriate coolant levels in the engine.
- Radiator Blockage: Inspect the radiator for debris that may restrict airflow.
- Thermostat: Test the thermostat for proper operation.

## Repair Procedures

The service manual provides detailed repair procedures that can guide users through various tasks. Here are a few common repairs:

### 1. Changing the Oil

- Tools Needed: Oil filter wrench, socket set, oil catch pan.
- Steps:
  1. Start the engine and let it run for a few minutes to warm up the oil.
  2. Turn off the engine and remove the oil drain plug. Allow the oil to fully drain into the catch pan.
  3. Replace the oil filter and install a new one.
  4. Reinstall the drain plug and refill the engine with the recommended oil through the dipstick tube.
  5. Start the engine and check for leaks.

## 2. Replacing the Brake Pads

- Tools Needed: Wrench set, jack, jack stands.

- Steps:

1. Safely lift the vehicle using a jack and secure it with jack stands.
2. Remove the wheel to access the brake assembly.
3. Remove the caliper and old brake pads.
4. Install new brake pads and reassemble the caliper.
5. Reinstall the wheel and lower the vehicle.

## Conclusion

In conclusion, the Polaris Ranger 800 service manual is an indispensable tool for anyone who owns or works on this robust utility vehicle. Through regular maintenance, following the troubleshooting guidelines, and adhering to the repair procedures outlined in the manual, owners can ensure their Ranger 800 operates efficiently and safely for years to come. Investing the time in understanding and utilizing this manual can save money and enhance the overall experience of using this versatile machine. Whether for work or recreation, proper care and attention will maximize the Ranger 800's performance and reliability.

## Frequently Asked Questions

### What is the purpose of the Polaris Ranger 800 service manual?

The service manual provides detailed information on maintenance, repair procedures, and specifications for the Polaris Ranger 800, helping owners keep their vehicle in optimal condition.

## **Where can I find a digital copy of the Polaris Ranger 800 service manual?**

You can find a digital copy on the official Polaris website, authorized dealerships, or various online retailers that sell ATV manuals.

## **What type of maintenance tasks are covered in the Polaris Ranger 800 service manual?**

The manual covers routine maintenance tasks such as oil changes, filter replacements, brake adjustments, and troubleshooting common issues.

## **Is the Polaris Ranger 800 service manual available in multiple languages?**

Yes, the Polaris Ranger 800 service manual is often available in multiple languages, including English, Spanish, and French, depending on the source.

## **How often should I refer to the Polaris Ranger 800 service manual?**

It's recommended to refer to the service manual regularly, especially before performing maintenance or repairs, to ensure proper procedures are followed.

## **Can I perform my own repairs using the Polaris Ranger 800 service manual?**

Yes, the service manual is designed for DIY enthusiasts and provides detailed instructions, but ensure you have the necessary tools and skills for each task.

## **What should I do if I lose my Polaris Ranger 800 service manual?**

If you lose your manual, you can purchase a replacement from Polaris dealers or download a copy from authorized online sources.

**Are there any safety warnings included in the Polaris Ranger 800 service manual?**

Yes, the service manual includes essential safety warnings and precautions to follow while performing maintenance and repairs to prevent accidents and injuries.

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