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Allis Chalmers 715

Allis Chalmers 715 Tractor Loader Backhoe Service Manual

Comprehensive guide for maintenance, repair, and overhaul procedures.

INTRODUCTION

This service manual provides detailed instructions for the maintenance, repair, and complete overhaul of the Allis Chalmers 715 Tractor Loader Backhoe (Diesel model). It is designed for mechanics and technicians, offering comprehensive guidance on disassembling, repairing, and reassembling equipment components. This manual is an essential resource for performing extensive repairs or a full restoration, ensuring proper procedures are followed to maintain the integrity and performance of the machinery.

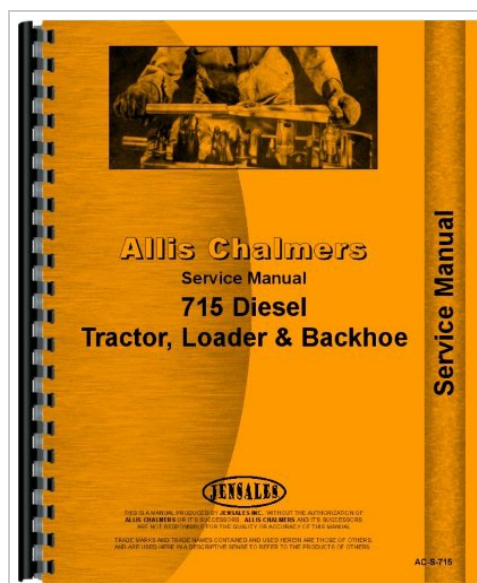


Image 1: Front cover of the Allis Chalmers 715 Tractor Loader Backhoe Service Manual. This image displays the title and a graphic representation of the tractor loader backhoe, indicating the manual's subject matter.

PREPARATION FOR SERVICE

Before commencing any service or repair work on the Allis Chalmers 715 Tractor Loader Backhoe, it is crucial to ensure the safety of personnel and the integrity of the equipment. Adhere to all local safety regulations and manufacturer guidelines.

- **Safety First:** Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and protective footwear.
- **Secure the Machine:** Park the backhoe on a level surface, engage the parking brake, and lower all attachments to the ground. Block wheels if necessary.
- **Disconnect Power:** Turn off the engine and disconnect the battery to prevent accidental starting or electrical hazards.
- **Relieve Pressure:** Safely relieve hydraulic system pressure before disconnecting any hydraulic lines or components.
- **Cleanliness:** Clean the work area and the machine components to prevent contamination during disassembly and reassembly.

GENERAL SERVICE PROCEDURES

This section outlines general procedures applicable to various service operations. Specific detailed instructions for each component (engine, transmission, hydraulic system, axles, etc.) are provided in their respective chapters within the full manual.

1. **Diagnosis:** Accurately identify the root cause of any malfunction before beginning repairs. Utilize diagnostic charts and testing procedures.
2. **Disassembly:** Follow sequential disassembly steps, noting the position and orientation of all parts. Label components and fasteners to aid reassembly.
3. **Inspection:** Thoroughly inspect all removed parts for wear, damage, or fatigue. Replace worn components with genuine Allis Chalmers parts or approved equivalents.
4. **Cleaning:** Clean all components before reassembly. Use appropriate cleaning agents and ensure all passages are clear.
5. **Reassembly:** Reassemble components in the reverse order of disassembly, paying close attention to torque specifications, clearances, and proper lubrication.
6. **Testing:** After reassembly, perform functional tests to ensure proper operation and leak-free performance.

Refer to the specific sections of the complete service manual for detailed diagrams, torque values, and special tool requirements.

MAINTENANCE SCHEDULE

Regular maintenance is critical for the longevity and efficient operation of the Allis Chalmers 715 Tractor Loader Backhoe. Adhere to the recommended maintenance intervals.

- **Daily Checks:** Inspect fluid levels (engine oil, hydraulic fluid, coolant), check tire pressure, inspect for leaks, and verify all lights and safety devices are operational.
- **50-Hour / Weekly Service:** Lubricate all grease points, check battery electrolyte level, inspect air filter, and check fan belt tension.
- **250-Hour / Monthly Service:** Change engine oil and filter, inspect fuel filter, check hydraulic system filter, and inspect all hoses and connections.
- **500-Hour / Quarterly Service:** Replace fuel filter, replace hydraulic system filter, check transmission fluid, and inspect brake system.

- **1000-Hour / Annual Service:** Replace air filter elements, change transmission fluid and filter, change axle oils, and inspect cooling system.

Note: These are general guidelines. Always consult the full service manual for precise maintenance schedules and procedures specific to your Allis Chalmers 715 model.

TROUBLESHOOTING COMMON ISSUES

This section provides a general guide to diagnosing common operational problems. For detailed troubleshooting charts and specific repair steps, refer to the dedicated troubleshooting chapters in the complete service manual.

- **Engine Fails to Start:**

- Check fuel level and quality.
- Inspect battery charge and connections.
- Verify starter motor operation.
- Check for air in the fuel system.

- **Loss of Hydraulic Power:**

- Check hydraulic fluid level.
- Inspect hydraulic pump for damage or leaks.
- Verify hydraulic filter is not clogged.
- Check for relief valve malfunction.

- **Overheating Engine:**

- Check coolant level.
- Inspect radiator for blockages or damage.
- Verify fan belt tension and fan operation.
- Check thermostat function.

Always consult the detailed troubleshooting guides in the full service manual for comprehensive diagnostic procedures.

SPECIFICATIONS

Key technical specifications for the Allis Chalmers 715 Tractor Loader Backhoe (Diesel model). These specifications are for general reference; always refer to the official manufacturer's data for precise figures.

Specification	Value
Model	715 Tractor Loader Backhoe (Diesel)
ASIN	B01DWFV2NS
Publication Date	January 1, 2015
Print Length	270 pages
Format	Plastic Comb (Service Manual)

Note: Additional detailed specifications regarding engine displacement, horsepower, hydraulic flow, capacities, and

dimensions are available in the complete service manual.

WARRANTY INFORMATION

This service manual is a reproduction of the original manufacturer's shop manual. Warranty coverage for your Allis Chalmers 715 Tractor Loader Backhoe is provided by the original manufacturer at the time of purchase. This manual itself does not come with a product warranty beyond its quality as a reproduction.

For specific details regarding your equipment's warranty, including terms, conditions, and duration, please refer to the documentation provided with your machine at the time of purchase or contact an authorized Allis Chalmers dealer.

SUPPORT AND FURTHER ASSISTANCE

For further technical assistance, parts inquiries, or specialized service, it is recommended to contact an authorized Allis Chalmers dealer or a qualified heavy equipment service professional.

- **Authorized Dealers:** Locate your nearest authorized Allis Chalmers dealer for genuine parts and expert service.
- **Manufacturer Resources:** Consult the official Allis Chalmers website or historical archives for additional documentation or support.
- **Professional Technicians:** Always ensure that service and repairs are performed by trained and certified technicians to maintain safety and operational standards.

This service manual is intended to supplement the knowledge of experienced mechanics and should not replace professional training or expert advice.