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› AgPubs Service Repair Manual for Clark C500-Y50 and C500-Hy50 Forklifts

AgPubs C500-Y50, C500-Hy50

AgPubs Service Repair Manual for Clark C500-Y50 and C500-Hy50 Forklifts

1. INTRODUCTION TO YOUR SERVICE REPAIR MANUAL

This document serves as a comprehensive service and repair manual specifically designed for Clark C500-Y50 and C500-Hy50 forklift models. It provides detailed instructions and procedures necessary for the proper maintenance, repair, and overhaul of various components and systems within these forklifts. This manual is an essential resource for technicians and individuals performing in-depth service work.

2. UNDERSTANDING MANUAL TYPES

For effective equipment management, it is important to distinguish between different types of manuals. Each serves a unique purpose:

- **Service Manual (Repair / Overhaul / Troubleshooting):** This manual, which you are currently using, provides in-depth information for diagnosing issues, performing repairs, and completely overhauling components. It includes detailed diagrams, specifications, and step-by-step procedures for complex tasks.
- **Operators Manual (Basic Maintenance / Operation / Fluid Types / Quantities and Adjustments):** This manual focuses on the day-to-day operation of the equipment, routine checks, basic maintenance schedules, fluid specifications, and minor adjustments. It is intended for the equipment operator.
- **Parts Catalog (Exploded Views / Parts Names / Factory (OEM) Parts Numbers):** This manual contains exploded views of assemblies, lists of individual parts, their names, and original equipment manufacturer (OEM) part numbers. It is crucial for identifying and ordering correct replacement parts.

This AgPubs manual is a high-quality reproduction of the original factory OEM Service Manual, ensuring accuracy and durability for long-term use.

3. NAVIGATING YOUR SERVICE MANUAL

To effectively utilize this service manual, familiarize yourself with its structure. Information is typically organized by system or component. Use the section headings and any internal indexing to locate specific procedures or diagrams.

TABLE OF CONTENTS		
SUBJECT	GROUP	SECTION
ENGINE OVERHAUL (GAS)	00	03
ENGINE OVERHAUL (DIESEL)	00	04
ENGINE OVERHAUL (PERKINS DIESEL)	00	12
EXHAUST EMISSION SYSTEM	02T5200A-K	
CARBURETOR OVERHAUL (BENDIX-ZENITH)	02M200A-02S533A	
LPG SYSTEM MAINTENANCE	02	05
	02	06
	02	08
TRANSMISSION OVERHAUL (HYDRATORK)	06T5205A-06M405C	
TRANSMISSION OVERHAUL (MANUAL)	08M104A-08T5106A	
ENGINE TEST PROCEDURES	11T5003A-11T6000K	
STARTER OVERHAUL	11M100A-11S199C	
DISTRIBUTOR MAINTENANCE	11M602A-11M602D	
ALTERNATOR MAINTENANCE	12T5100A-12S102A	
ALTERNATOR OVERALL	12	03
AXLE END MAINTENANCE	20M801A-20S801B	
BRAKE MAINTENANCE	23M500B-23M867G	
NEUTRAL-STARTING SWITCH	23M900A-26T5101A	
STEER CYLINDER MAINTENANCE	26T5101A-26S101A	
HYDRAULIC PUMP OVERHAUL (GEAR)	29	01
HYDRAULIC PUMP OVERHAUL (VANE)	29M007A-30S202B	
HYDRAULIC VALVE OVERHAUL	30M203A-30T5203A	
TILT LOCK VALVE	30T5301A-30M301D	
TILT CYLINDER	32	06
ACCUMULATOR OVERHAUL	32	01
UPRIGHT LIFT CYLINDER OVERHAUL	34	01
UPRIGHT ROLLER CHECK AND ADJUSTMENT PROCEDURES	34	02

Figure 1: Example of a Table of Contents page from the manual, detailing subjects like engine overhaul, transmission, and hydraulic systems.

Each section provides detailed steps, often accompanied by illustrations or diagrams to clarify complex processes. Pay close attention to safety warnings and torque specifications.

4. COVERED PROCEDURES AND SYSTEMS

This service manual covers a wide range of procedures for the Clark C500-Y50 and C500-Hy50 forklift models, including but not limited to:

- Engine Overhaul (Gas and Diesel variants)
- Fuel System Maintenance (Carburetor, LPG)
- Transmission Overhaul (Hydratork and Manual)
- Electrical System Components (Starter, Distributor, Alternator)
- Axle and Brake Maintenance
- Hydraulic System Overhaul (Pumps, Valves, Cylinders)
- Steering Cylinder Maintenance



Figure 2: An example page from the manual illustrating detailed diagrams and accompanying text for a repair procedure.

5. TROUBLESHOOTING GUIDELINES

The manual includes dedicated sections for troubleshooting common issues. These sections provide diagnostic charts and procedures to help identify the root cause of malfunctions. Follow the recommended steps systematically to ensure accurate problem identification and resolution.

6. MANUAL CARE AND STORAGE

To ensure the longevity of your AgPubs Service Repair Manual, store it in a dry, clean environment away from direct sunlight and extreme temperatures. Avoid exposing the manual to liquids or harsh chemicals. Handle pages carefully to prevent tearing or damage to the binding. Proper care will preserve the manual's readability and integrity for future use.

7. SPECIFICATIONS

This service repair manual is applicable to the following Clark forklift models:

- Clark C500-Y50
- Clark C500-Hy50

Refer to the specific sections within the manual for detailed technical specifications, torque values, and adjustment parameters relevant to each system.

8. SUPPORT AND FURTHER ASSISTANCE

Should you require clarification on any procedure or encounter difficulties not addressed within this manual, it is recommended to consult with a certified Clark service technician or contact AgPubs for further assistance. Always prioritize safety and professional guidance when performing complex repairs.