

[Manuals.plus](#) /

› [AgPubs](#) /

› AgPubs Service Repair Manual for Case 850 Crawler Dozer Loader

AgPubs 850 Crawler Dozer Loader

Service Repair Manual for Case 850 Crawler Dozer Loader

Technical Shop Book Binder

1. INTRODUCTION TO MANUAL TYPES

This document serves as a comprehensive guide for the maintenance and repair of the Case 850 Crawler Dozer Loader. Understanding the different types of manuals available is crucial for effective use.

- **Service Manual:** This manual, like the one you possess, provides detailed instructions for repair, overhaul, and troubleshooting procedures. It is essential for in-depth mechanical work.
- **Operators Manual:** Focuses on basic maintenance, operational procedures, fluid types, quantities, and adjustments necessary for daily use.
- **Parts Catalog:** Contains exploded views, part names, and factory (OEM) part numbers, useful for identifying and ordering replacement components.

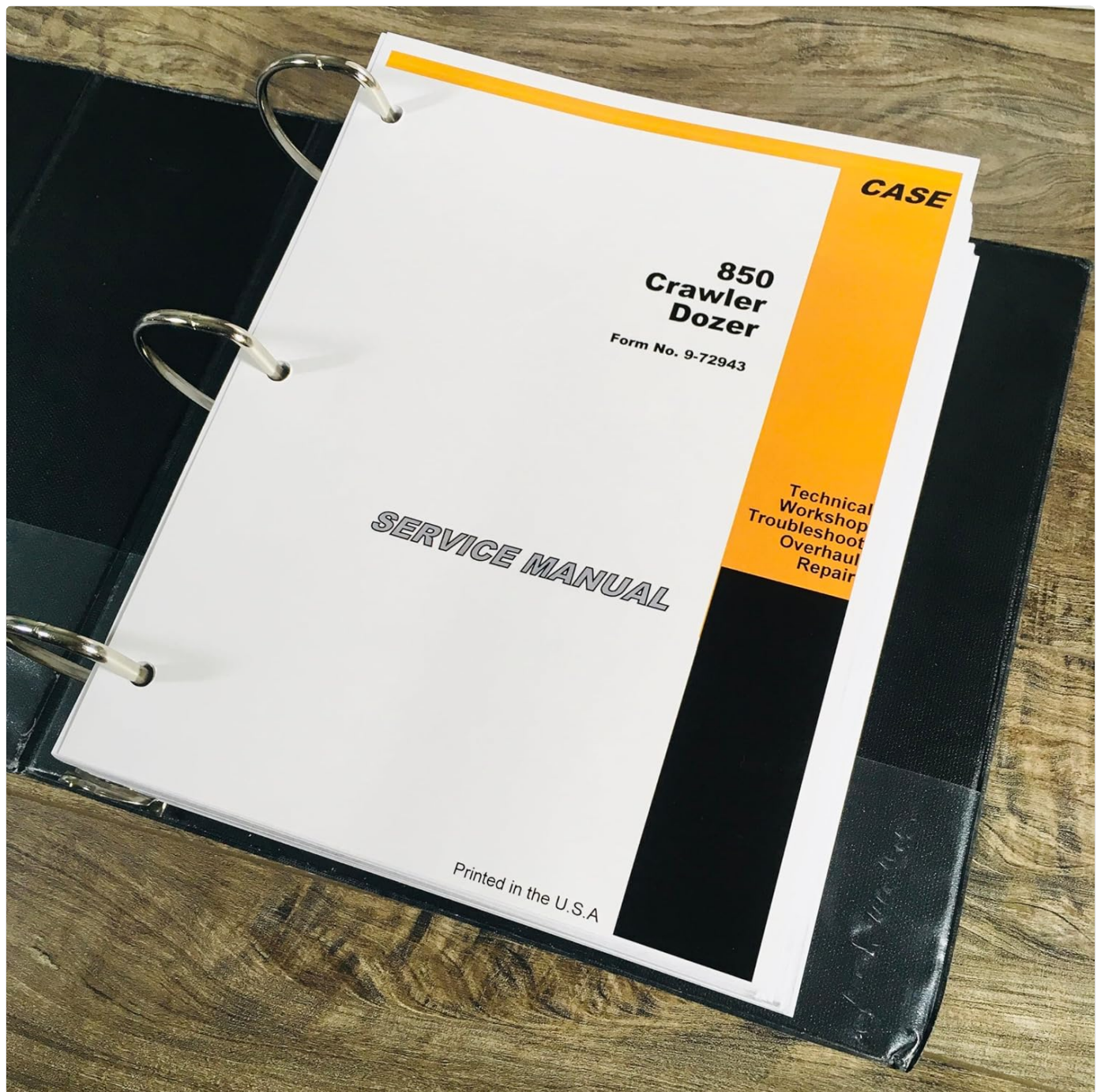


Figure 1: Front cover of the Service Repair Manual for Case 850 Crawler Dozer. This image shows the binder with the title "CASE 850 Crawler Dozer SERVICE MANUAL" and "Technical Workshop Troubleshoot Overhaul Repair" on the right side.

2. MANUAL STRUCTURE AND NAVIGATION

The manual is organized into various series and sections, each addressing specific components or systems of the Case 850 Crawler Dozer Loader. Familiarize yourself with the layout to quickly locate relevant information.

850 CRAWLER	
TABLE OF CONTENTS	
This sheet replaces Table of Contents with form number 9-72942 (Oct. 1973).	
SERIES/SECTION	SECTION NO.
10 SERIES - GENERAL	
Maintenance and Lubrication	1050
Torque Chart	1051
Crawlers before S/N 7073469	
Engine Specifications	C
Timing Chart and Torques	C, Supp't 1
Crawlers with S/N 7073469 and after	
Engine Specifications	11
20 SERIES - ENGINES	
Engine Removal/Installation, Adjusting	
Throttle Linkage, Stall Checks	2050
Air Cleaner	2051
Cooling System Trouble Shooting, Radiator	
Removal/Installation, Backhoe Oil Cooler	2054
Crawlers before S/N 7073469	
Cylinder Head and Valve System	K
Engine Block	M
Engine Counter Balancer	MM
Water Pump	MM
Crawlers with S/N 7073469 and after	
Cylinder Head and Valves	22
Engine Block Assemblies	23
Water Pump	25
30 SERIES - FUEL SYSTEM	
Fuel Lines, Bleeding the Fuel System	3052
Crawlers before S/N 7073469	
Fuel Injection	1
Crawlers with S/N 7073469 and after	
Fuel Filters	31
Fuel Injection Pump	32
Fuel Injectors	33
40 SERIES - HYDRAULIC SYSTEM	
Hydraulic Diagrams, Trouble Shooting,	
Pressure Checks	4011
Equipment Pumps D42531, R30316	4013
Loader, Dozer, Backhoe Control Valves	4021
Hydraulic Cylinders	4057
50 SERIES - TRACK	
Track System	5010
Suspension System	5019
Intertrac Rollers	5505
  Burl. Form 9-72942 Sept. 1976	

Figure 2: First page of the Table of Contents, detailing sections such as General, Engines, Fuel System, and Hydraulic System.

SERIES/SECTION	SECTION NO.
60 SERIES - POWER TRAIN	
Trouble Shooting the Transmission/Torque Converter	
Hydraulic System with a Flowmeter	6012
Transmission and Final Drives (Prior to	
Tractor S/N 7074053 and Transmission S/N	
2697154), Transmission Removal/Installation	
(All Models), Transmission Controls	6014
Transmission and Final Drives (Transmission	
S/N 2697154 and After)	6014
Torque Converter	6016
Charging Pump	6017
Clutch Outout Control (Declutch Lockout)	6019
Drive Shaft	6022
70 SERIES - BRAKES	
Adjusting and Bleeding Brakes, Master	
Cylinders	7010
NOTE: Also refer to sections covering the transmission in the 60 Series.	
80 SERIES - ELECTRICAL	
Wiring Diagrams	8011
Trouble Shooting and Adjustments	8012
Batteries	8014
Starter and Starter Solenoid	8015
Alternator	8016
90 SERIES - MOUNTED EQUIPMENT	
Counterweights, Drawbars, Engine Frame and	
Undercarriage Guards, Seat and Tank	
Weldment	9010
Loader	9011
Power Tilt Dozer, Power Angling Dozer	9013
Power Angle-Tilt Dozer	9013, Supp't 1
Power Angle Tilt Pitch Dozer, Before	
Tractor S/N 7074906, R24819 Diversion	
Valve	9013, Supp't 2
Power Angle Tilt Pitch Dozer, Crawlers	
With S/N 7074906 and After	9013, Supp't 3
Model 19 Gearmatic Winch	9014
Model 19 Gearmatic Winch; Ring Gear, Pinion	
Shaft, and Drum Shaft, Winch S/N 19-9000	
and After	9014, Supp't 1
Ripper	9015
Hollover Protection Structure (ROPS)	9019
Model 34 Backhoe	9026
Model 36 Backhoe	9027

Figure 3: Second page of the Table of Contents, listing sections including Power Train, Brakes, Electrical, and Mounted Equipment.

Each section is typically divided into subsections covering specific procedures, adjustments, or component details. Refer to the section numbers for quick reference.

3. MAINTENANCE AND REPAIR PROCEDURES

This manual provides detailed instructions for various maintenance and repair tasks. Always follow safety guidelines and

use appropriate tools for each procedure.

3.1 Engine Systems

Detailed procedures for engine removal, installation, adjustments, and component overhauls are included. This covers elements like cylinder heads, valves, and lubrication systems.

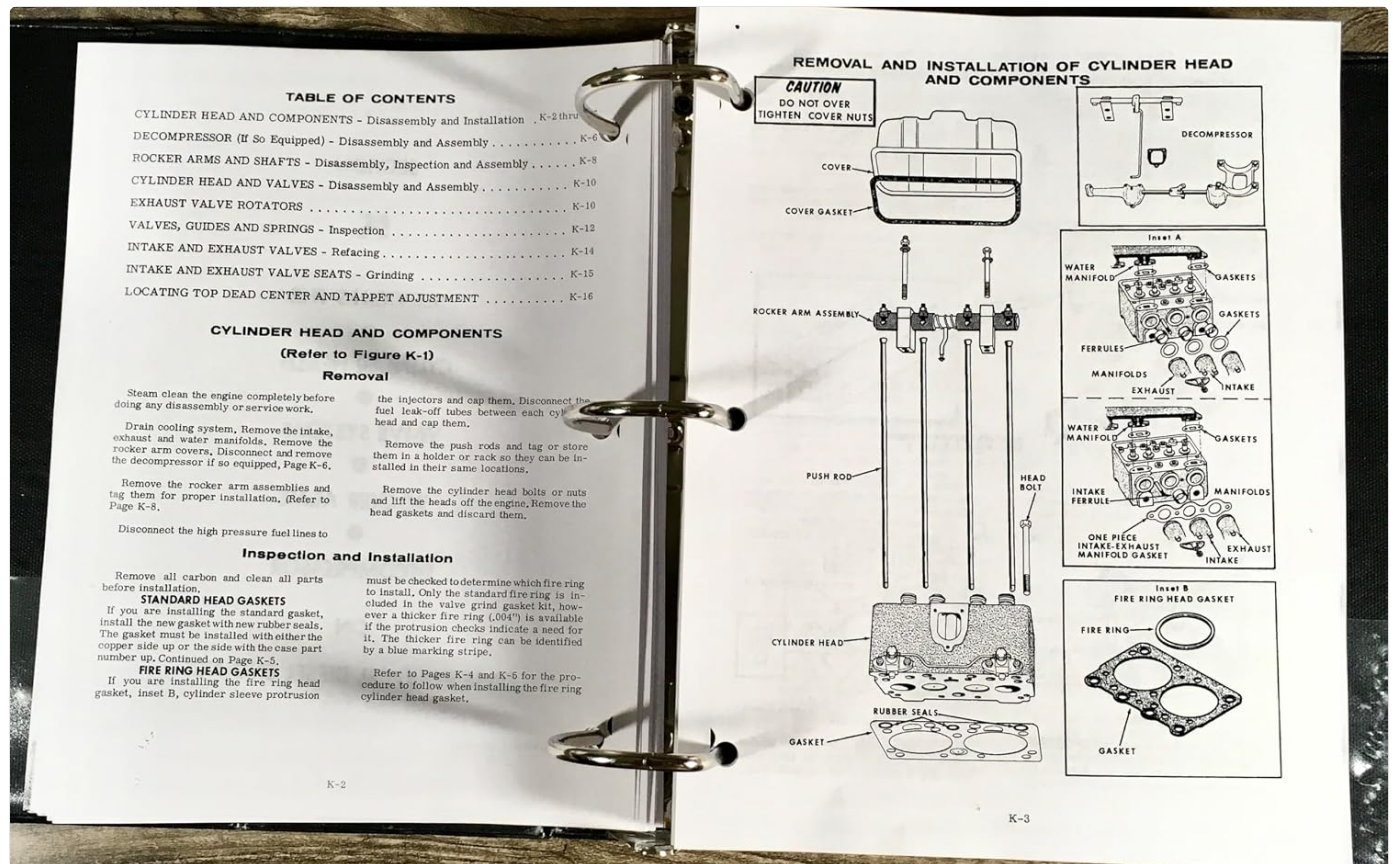


Figure 4: Illustration detailing the removal and installation process for cylinder head and components, including gaskets and bolts.

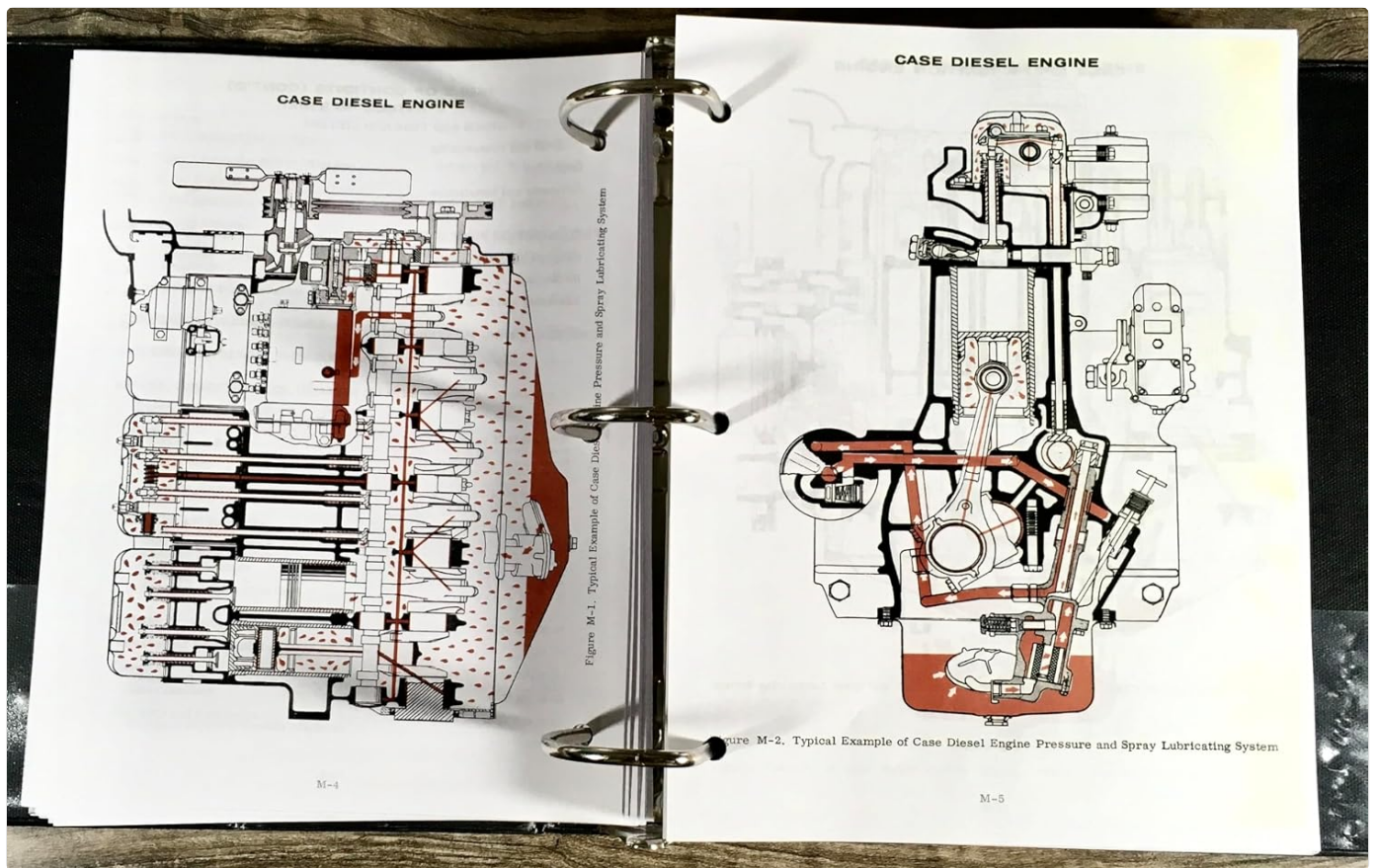


Figure 5: Cross-sectional diagrams illustrating internal components and systems of the Case Diesel Engine, including lubrication paths.

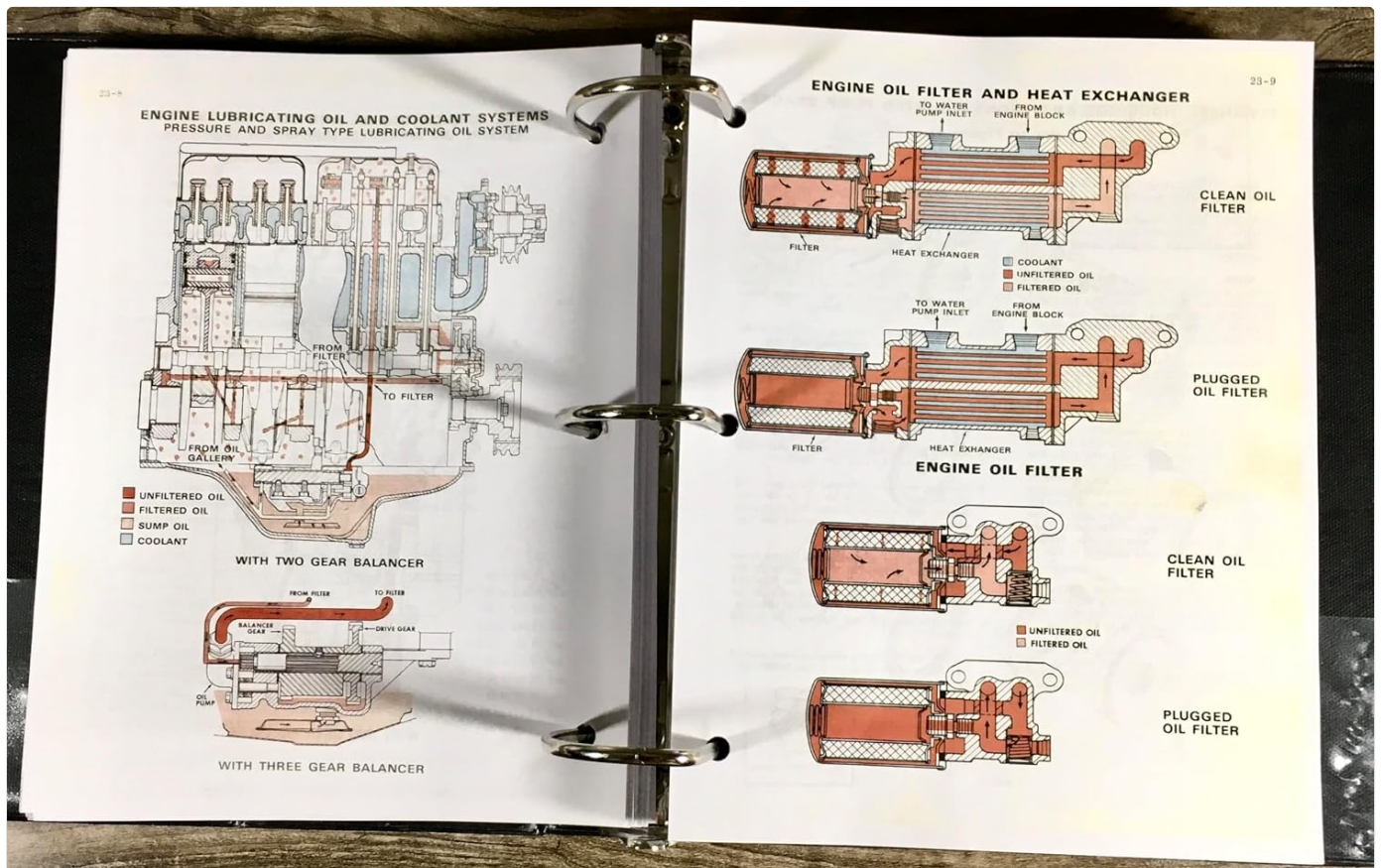


Figure 6: Illustrations showing the flow of lubricating oil and coolant within the engine systems, including filters and heat exchangers.

3.2 Power Train and Hydraulic Systems

Sections dedicated to the power train cover components such as transmissions, torque converters, and drive shafts.

Hydraulic system information includes troubleshooting, pressure checks, and component servicing.

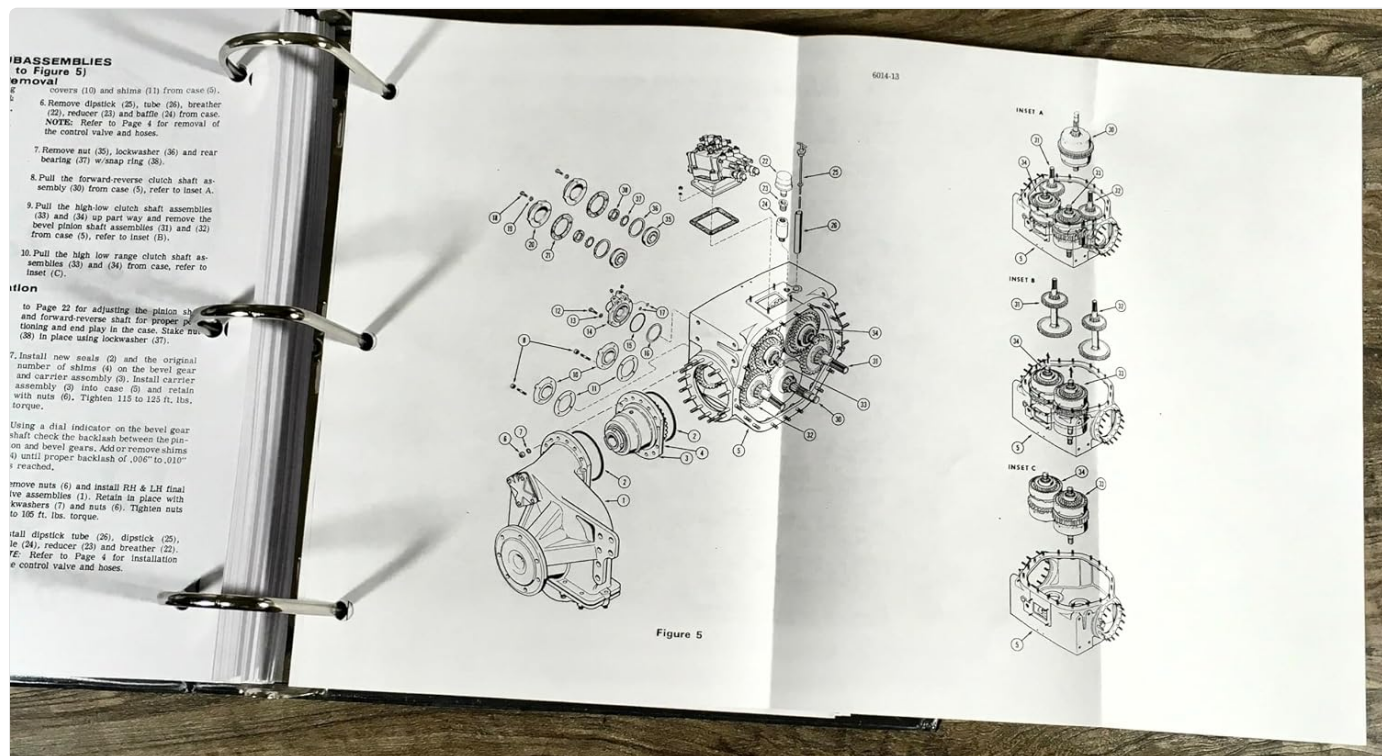


Figure 7: Exploded view diagram illustrating the disassembly and assembly of power train components, with numbered parts for identification.

3.3 Adjustments and Calibrations

The manual provides specific instructions for adjusting various systems to ensure optimal performance, such as throttle linkage and brake adjustments.

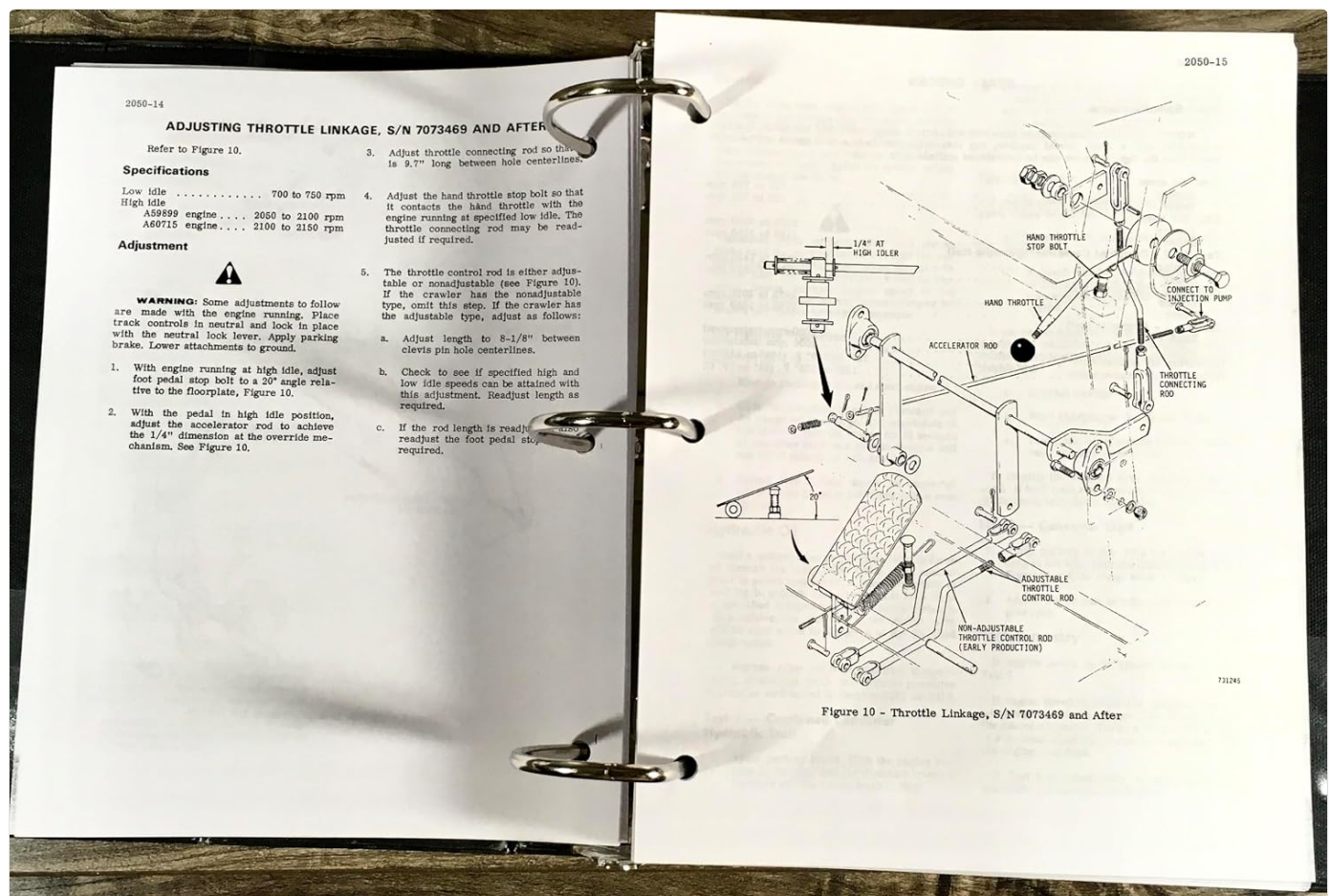


Figure 8: Detailed diagram and instructions for adjusting the throttle linkage, including specifications for low idle and high idle RPM.

4. TROUBLESHOOTING GUIDE

This manual includes sections dedicated to troubleshooting common issues across various systems, including engines, hydraulics, and electrical components. Follow the diagnostic steps provided to identify and resolve problems efficiently.

- **Engine Troubleshooting:** Guidance on diagnosing issues related to engine performance, starting, and cooling.
- **Hydraulic System Troubleshooting:** Steps for identifying problems with hydraulic pressure, flow, and component operation.
- **Electrical System Troubleshooting:** Information on diagnosing electrical faults, including wiring diagrams and component checks.

5. SPECIFICATIONS

Technical specifications for the Case 850 Crawler Dozer Loader are integrated throughout the manual within relevant sections. These specifications include:

- Engine specifications (e.g., RPM ranges, torque values)
- Fluid capacities and types
- Component clearances and tolerances
- Electrical system values (e.g., voltage, resistance)

Always refer to the specific section for the most accurate and up-to-date specifications for the component you are working on.

6. QUALITY AND SUPPORT

This manual is a quality reproduction, designed for durability and longevity, often surpassing the condition of original vintage prints. It is intended to provide reliable information for your repair and maintenance needs.

For any questions regarding the content or clarity of this manual, please contact the publisher, AgPubs, through their official support channels. This manual is designed to empower users with the knowledge to perform DIY repairs and maintenance effectively.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

<https://manuals.plus/asin/B07KQPX18V>

More documents and user manuals: <https://manuals.plus/>