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AgPubs Cub Cadet 1215, 1220, 1315, 1320, 805, 1015, 1020, 1105, 1110, 1405, 1415, 1420, 1605, 1610, 1615, 1620, 1715, 1720

Service Manual for Cub Cadet Lawn Garden Tractors

Models: 805, 1015, 1020, 1105, 1110, 1215, 1220, 1315, 1320, 1405, 1415, 1420, 1605, 1610, 1615, 1620, 1715, 1720

1. INTRODUCTION AND PURPOSE

This document is a comprehensive service manual designed for the repair, overhaul, and troubleshooting of various Cub Cadet Lawn Garden Tractor models. It provides detailed instructions and diagrams to assist technicians and experienced users in performing maintenance and repair tasks effectively.

The manual covers models including 805, 1015, 1020, 1105, 1110, 1215, 1220, 1315, 1320, 1405, 1415, 1420, 1605, 1610, 1615, 1620, 1715, and 1720.

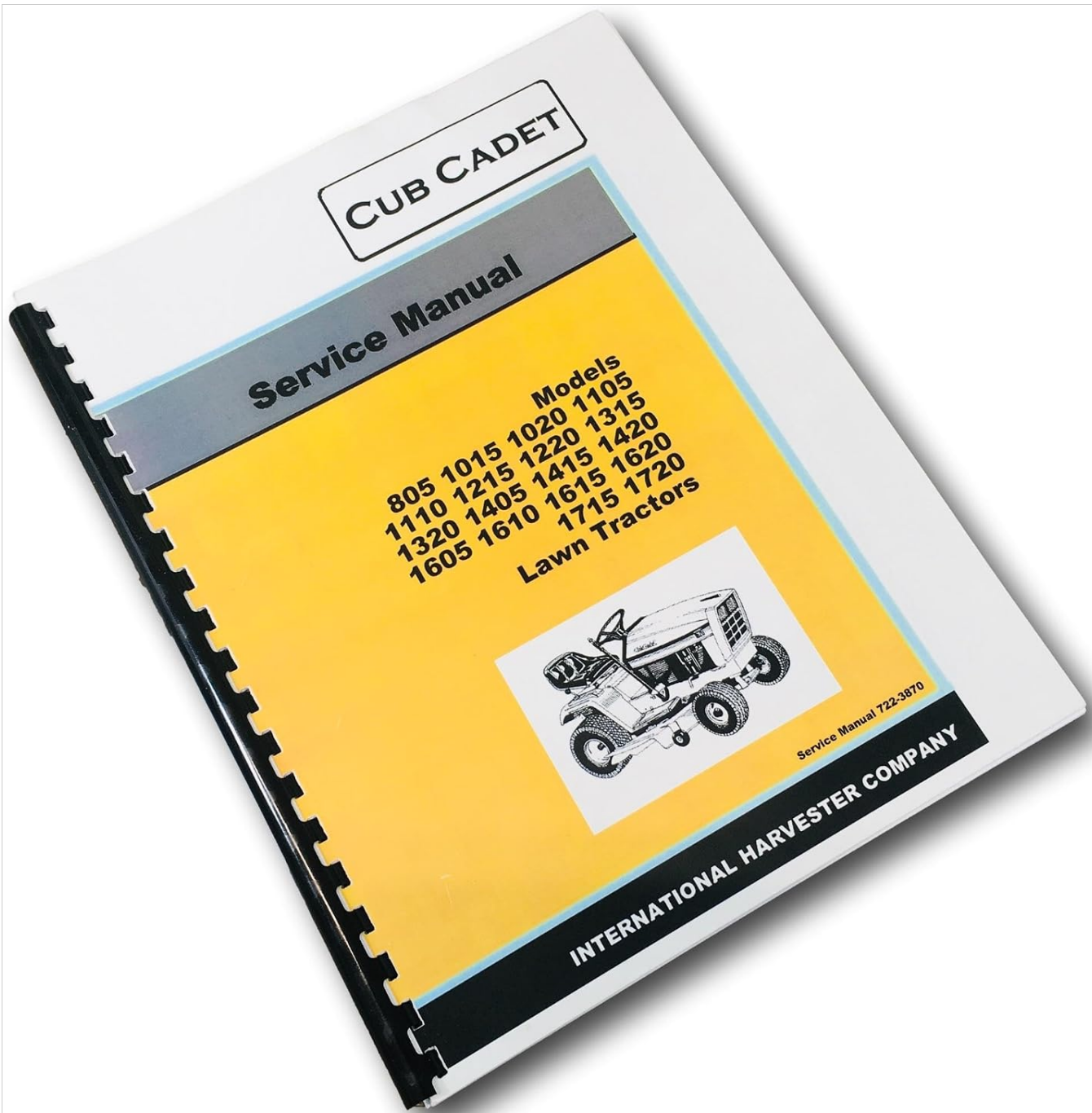


Figure 1: Front cover of the AgPubs Service Manual for Cub Cadet Lawn Garden Tractors.

This manual is a quality reproduction, designed for durability, and aims to provide factory-authored information for accurate service procedures. It is distinct from operator's manuals (which cover basic maintenance and operation) and parts catalogs (which provide exploded views and part numbers).



Figure 2: Inside title page of the service manual, confirming coverage for various Cub Cadet Lawn Tractors and listing specific model numbers.

2. SERVICE MANUAL SECTIONS OVERVIEW

The manual is organized into several sections, each addressing specific components or systems of the Cub Cadet Lawn Garden Tractors. The following outlines the main sections and their content:

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Figure 3: An excerpt from the manual's Table of Contents, showing the primary sections covered.

2.1. Section 1: Engine

This section provides detailed information regarding the engine components, including disassembly, inspection, assembly, and repair procedures. It includes diagrams and step-by-step instructions for various engine-related tasks.

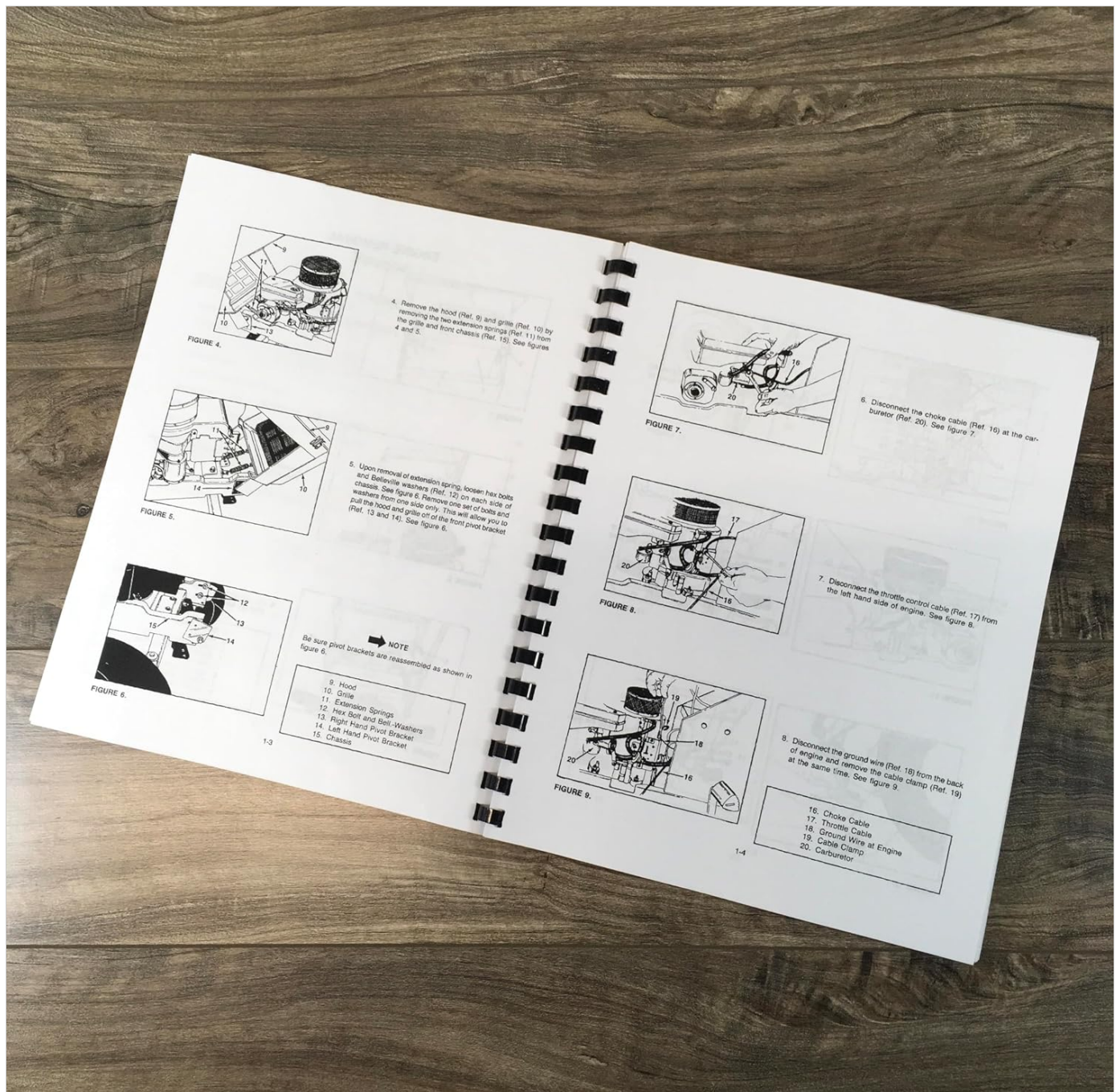


Figure 4: Example page from the Engine section, illustrating component diagrams and initial disassembly steps for engine parts.

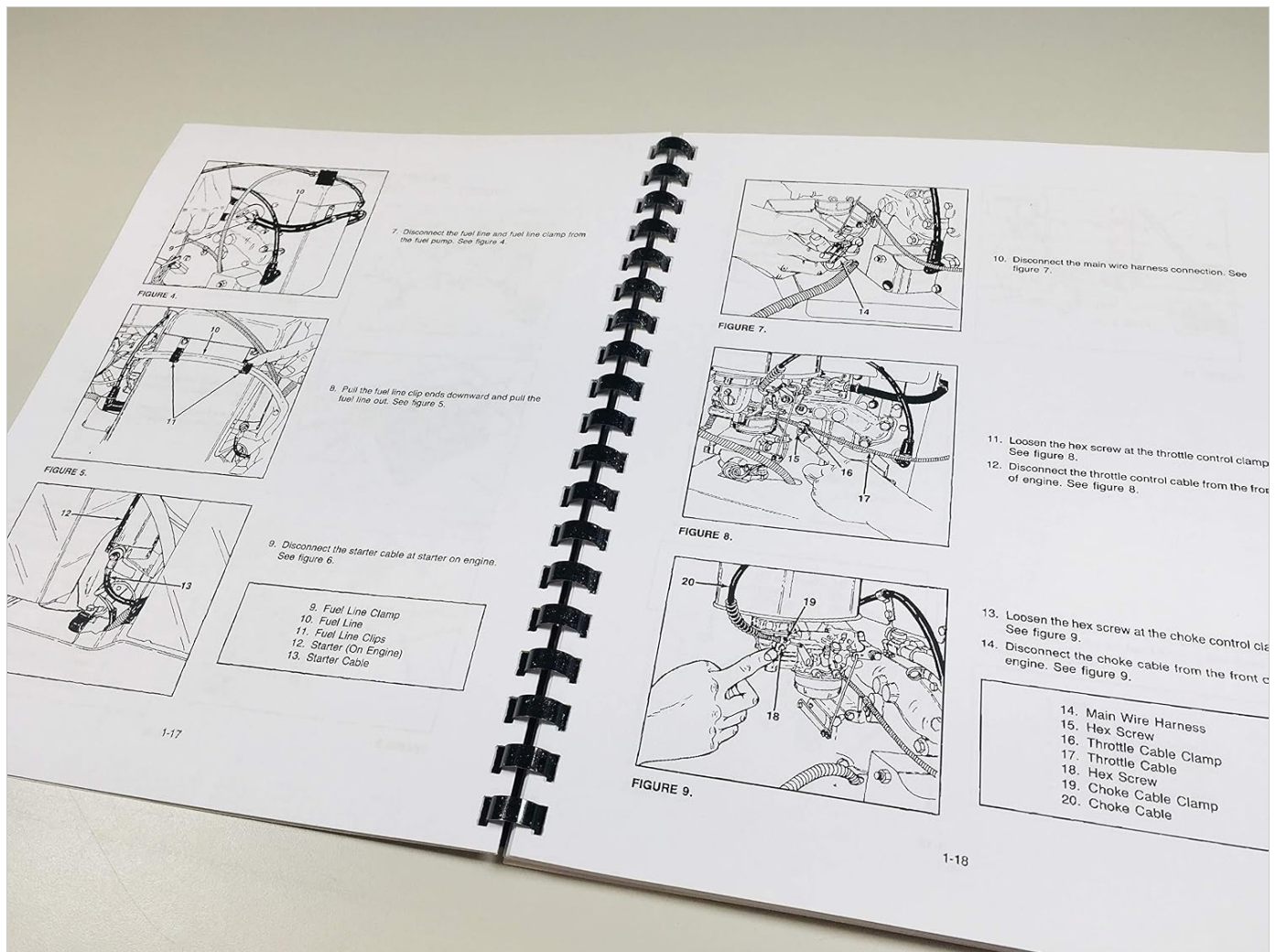


Figure 5: Another example page from the Engine section, detailing further component identification and removal procedures, such as fuel line and starter cable disconnection.

2.2. Electrical Wiring Diagrams

This subsection contains comprehensive electrical wiring diagrams essential for diagnosing and repairing electrical system issues. It provides visual representations of circuits and component connections.

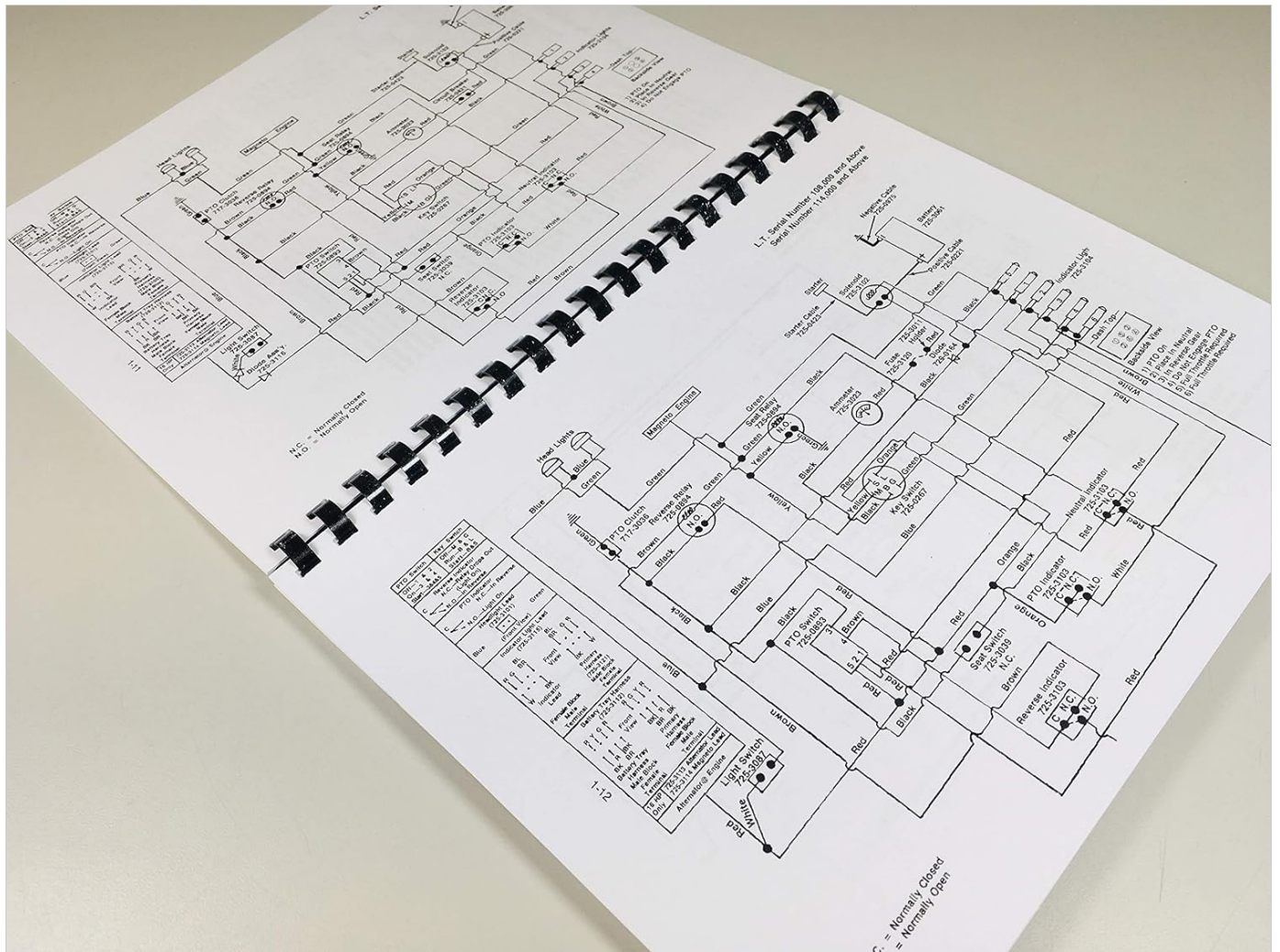


Figure 6: Detailed electrical wiring diagrams from the manual, showing various circuits and connections within the tractor's electrical system.

2.3. Section 2: Chassis

This section covers the chassis components, including steering, front axle, and other structural elements. It details inspection, repair, and reassembly procedures.

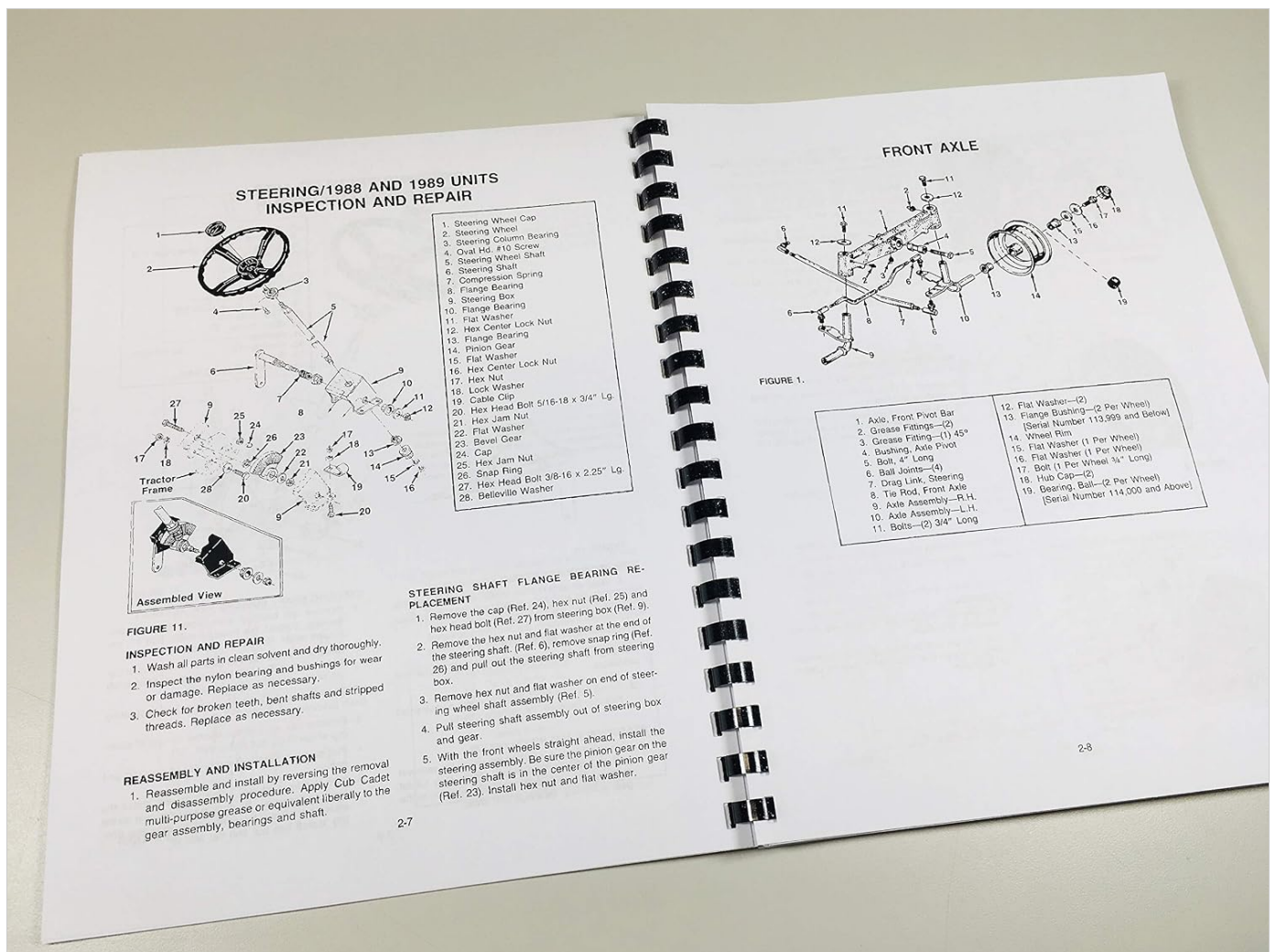


Figure 7: Page from the Chassis section, illustrating diagrams for steering and front axle components, along with inspection and repair instructions.

2.4. Disassembly & Assembly Hydrostatic Transmissions

This dedicated section provides in-depth instructions for the disassembly, inspection, and assembly of hydrostatic transmissions. It includes diagrams of internal components and detailed steps for servicing these complex units.

EATON HYDROSTATIC TRANSMISSION ADJUSTMENTS

1. Jack up rear of tractor to bring drive tires off of ground. **NOTE:** Be sure and block tractor with jack stands.
2. Start engine and move S/R lever back and forth until true neutral is obtained. When true neutral has been determined, leave S/R lever at that point and turn off engine.
3. Remove the cotter pin and headed pin that retains transmission linkage to pivot arm. See figure 1. **NOTE:** Be sure transmission lever, attached to hydrostatic transmission, does not move.
10. Remove headed pin that retains S/R lever linkage to pivot arm. See figure 2.

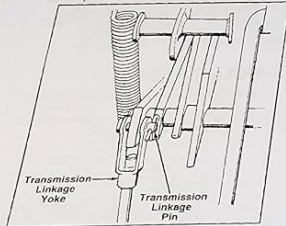


FIGURE 1.

4. Move S/R lever to forward position. Push down on brake pedal to bring S/R lever back to neutral. If it does not return to neutral, proceed as follows. **NOTE:** If S/R lever tries to move into reverse proceed to step 9.
5. Remove cotter pin and headed pin that retains S/R lever linkage to pivot arm. See figure 2.
6. Lengthen S/R lever linkage by adjusting yoke on end of linkage.
7. Reattach S/R lever linkage to pivot arm. **NOTE:** Do not install cotter pin at this time.
8. Move S/R lever to forward position and push down on brake pedal to bring S/R lever back to neutral. If S/R lever does not return to neutral continue to lengthen S/R lever linkage until neutral can be obtained when stepping down on brake pedal.
9. Move S/R lever to reverse and push down on brake pedal. S/R lever should go to neutral. If S/R lever does not return to neutral, proceed as follows:

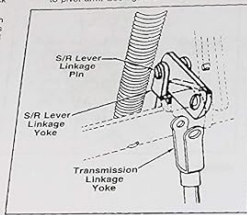


FIGURE 2.

11. Shorten S/R lever linkage by turning adjusting yoke on end of linkage.
12. Reattach S/R lever linkage to pivot arm. **NOTE:** Do not install cotter pin at this time.
13. Move S/R lever to reverse and push on brake pedal. S/R lever should return to neutral.
14. Recheck to be sure S/R lever returns to neutral when placed in forward position and the brake pedal pushed down. If S/R lever does not return to neutral, you should adjust accordingly. **NOTE:** At this time the cotter pin should be installed to retain the headed pin in the S/R lever linkage.
15. Making sure S/R lever is in neutral and transmission lever has not moved, adjust the yoke on the transmission lever linkage, see figure 1, until pin can be installed in transmission lever yoke and transmission lever without interference.
16. Install cotter pin in headed pin that retains transmission linkage to the pivot bracket.
17. Remove tractor from safety stands and drive tractor. Make sure that S/R lever returns to neutral, when brake pedal is pushed down, and tractor does not move forward or reverse. **NOTE:** If tractor still moves, when brake pedal is pushed down, recheck all adjustments.
18. Be sure all linkage is retained properly with cotter pins or quick pins.

*S/R same as control lever.

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DISASSEMBLY/REASSEMBLY

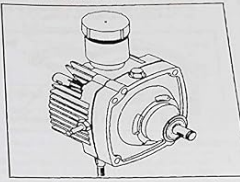


FIGURE 1.

Clean the transmission exterior thoroughly before repairs are begun. Use a cleaning solution that will not affect paint, gaskets, rubber seals, and plastic. **Important:** When compressed air is used in cleaning, do not expose lip seals or bearing surfaces to high pressure.

Drain fluid from transmission.

Note: A 2" x 6" x 10" wooden block with a 1/4 inch hole in the center is recommended for a suitable bench fixture.

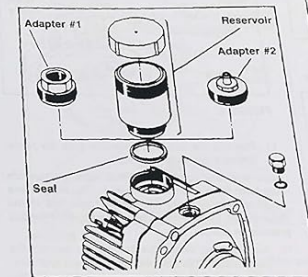


FIGURE 2.

RESERVOIR/ADAPTER-DISASSEMBLY

Eaton light duty transmissions are equipped with one of two adapters or a reservoir as shown in figure 2.

1. Remove the adapter or reservoir by rotating clockwise.

Important: The adapters and reservoir have left hand threads. To remove turn clockwise.

To remove adapter #1 use a six point 1 1/2" hex wrench or socket.

To remove the reservoir use a small filter or web wrench.

2. Remove the seal ring from the cover and discard.

Note: We recommend that all seals be replaced with new ones whenever the transmission is disassembled and reassembled.

BODY/COVER-DISASSEMBLY

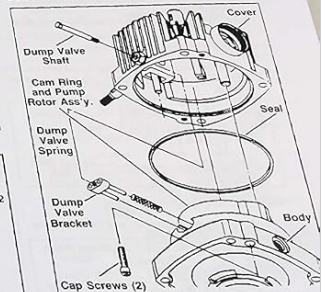


FIGURE 3.

Important: Before disassembling the transmission, scribe a line across the cover and body to ensure correct reassembly. Incorrect assembly will cause output shaft rotation.

3. Use 1/4 inch Allen wrench to remove the cap screws. Where applicable, remove the valve shaft.
4. Lift the cover to separate from the body.

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Figure 8: Page from the Hydrostatic Transmissions section, showing diagrams and instructions for adjusting and disassembling transmission components, including the reservoir and adapter.

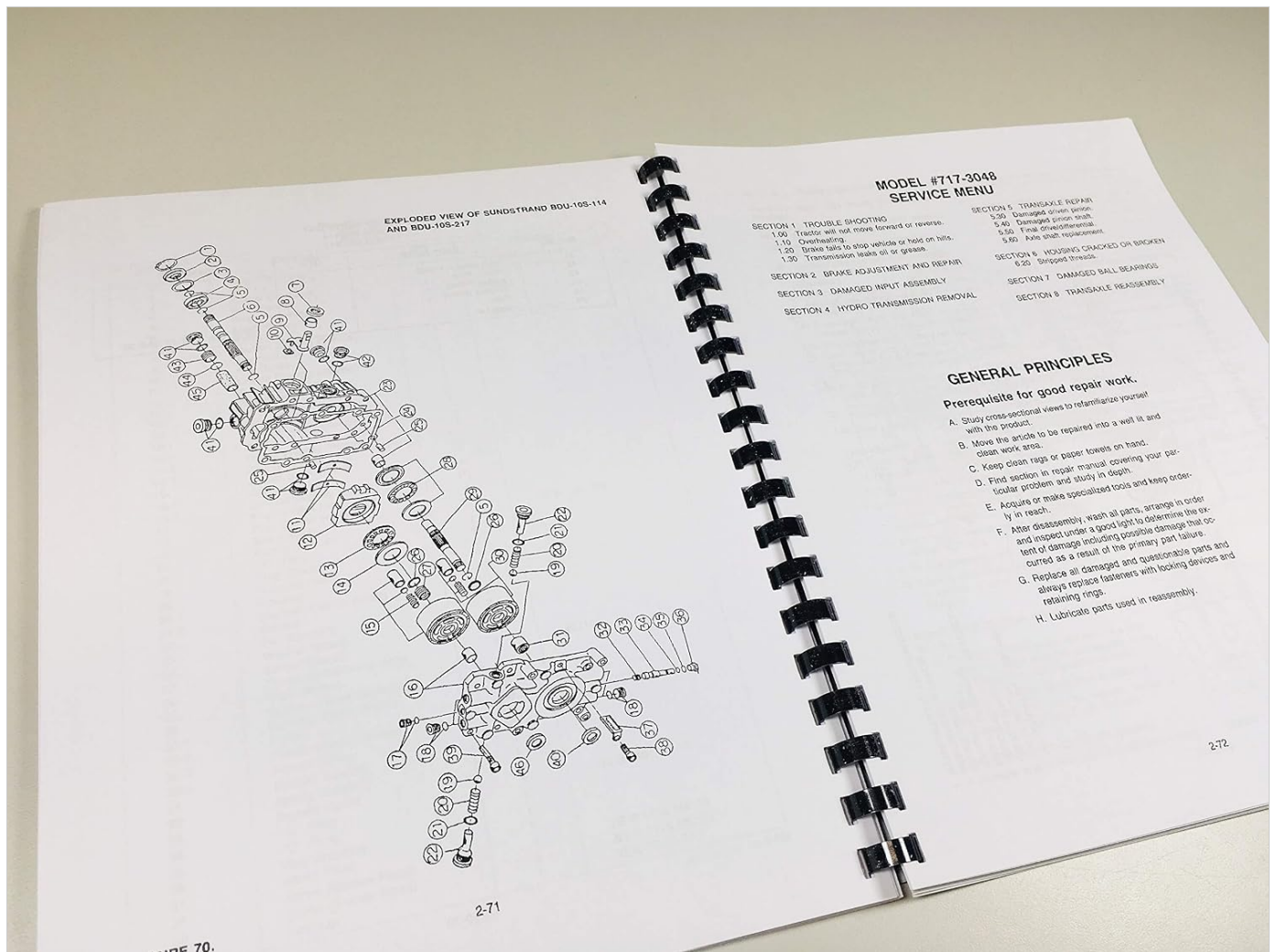


Figure 9: Exploded view diagram of a Sundstrand Hydro transmission, providing a detailed breakdown of its internal components for service and repair.

2.5. Section 3: Mower & Snow Thrower

This section focuses on the service and repair of mower decks and snow thrower attachments, covering their components, adjustments, and maintenance.

2.6. Section 4: P.T.O Trouble Shooting & VX Series Clutches

This section provides troubleshooting guides for Power Take-Off (P.T.O) systems and detailed service information for VX Series Clutches, including diagnosis and repair procedures.

2.7. Section 5: General Information & Safety

This section contains general information pertinent to all service operations, including safety precautions, proper tool usage, and general repair principles to ensure safe and effective maintenance.

3. GENERAL REPAIR PRINCIPLES

The manual emphasizes several general principles for effective repair work:

- Always work in a well-lit and clean work area.
- Keep clean rags and paper towels on hand.
- Pay attention to repair notes and warnings.
- Ensure all necessary specialized tools and equipment are readily accessible.
- After disassembly, wash all parts, arrange in order, and inspect under a good light for wear or damage. Replace damaged

parts as necessary.

- Lubricate all components during reassembly.

4. SPECIFICATIONS

Detailed technical specifications for the Cub Cadet Lawn Garden Tractors, including engine specifications, torque values, fluid capacities, and dimensions, are provided within the relevant sections of this service manual. Users should refer to the specific sections for precise model-specific data.

5. WARRANTY AND SUPPORT

This document is a service manual for repair and maintenance. Information regarding product warranty, customer support, or specific contact details for Cub Cadet Lawn Garden Tractors is typically found in the original operator's manual provided with the equipment or directly from the manufacturer's official channels. This service manual does not contain warranty or direct support contact information for the tractors themselves.

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