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## Bobcat E50

# Bobcat E50 Compact Excavator Operation & Maintenance Manual

This document provides essential information for the safe and efficient operation and maintenance of the Bobcat E50 Compact Excavator.

## INTRODUCTION

This manual is designed to assist operators and service personnel in understanding the Bobcat E50 Compact Excavator. It covers models with serial numbers AJ1811001 and above. Adherence to the instructions herein will ensure optimal performance, extend machine life, and promote safe working practices.

**Part Number:** 6990723

**Manual Type:** Operation & Maintenance Manual

**Pages:** 230



Image: Cover of the Bobcat E50 Compact Excavator Operation and Maintenance Manual. This spiral-bound manual provides comprehensive guidance for the E50 model.

## SAFETY INFORMATION

Always prioritize safety. Read and understand all safety decals on the machine and the safety section of this manual before operating or performing maintenance.

- Wear appropriate personal protective equipment (PPE).
- Ensure the work area is clear of bystanders and obstructions.
- Perform daily pre-operation checks.
- Never operate the machine under the influence of drugs or alcohol.

## SETUP AND PRE-OPERATION

Before starting the Bobcat E50, a thorough pre-operation inspection is crucial.

1. **Fluid Levels:** Check engine oil, hydraulic fluid, and coolant levels. Replenish if necessary.
2. **Fuel:** Ensure adequate fuel supply.
3. **Tracks/Tires:** Inspect tracks for damage or proper tension.
4. **Attachments:** Verify attachments are securely connected and pins are in place.
5. **Controls:** Test all control levers and pedals for proper function.
6. **Safety Devices:** Confirm all safety interlocks, seat belts, and warning lights are operational.

## OPERATING INSTRUCTIONS

The Bobcat E50 Compact Excavator is designed for various digging, trenching, and lifting tasks.

### Starting the Engine

1. Ensure the parking brake is engaged and controls are in neutral.
2. Insert the key and turn to the "ON" position. Wait for indicator lights to cycle.
3. Turn the key to the "START" position. Release once the engine starts.
4. Allow the engine to warm up for a few minutes before operating.

### Basic Controls

- **Joysticks:** Control boom, arm, bucket, and swing functions.
- **Foot Pedals:** Control travel and auxiliary hydraulics.
- **Blade Control:** Operates the dozer blade for backfilling and grading.

*Refer to the full manual for detailed diagrams and specific control patterns.*

## MAINTENANCE SCHEDULE

Regular maintenance is essential for the longevity and reliable operation of your Bobcat E50.

### Daily Checks

- Inspect for leaks, loose fasteners, and damaged components.
- Check engine oil, hydraulic fluid, and coolant levels.
- Clean debris from radiator and engine compartment.
- Lubricate pivot points as specified.

## Service Intervals

### Recommended Service Intervals

Interval	Task
Every 50 Hours	Check track tension, inspect battery terminals.
Every 250 Hours	Change engine oil and filter.
Every 500 Hours	Replace fuel filter, inspect hydraulic system.
Every 1000 Hours	Change hydraulic fluid and filter.

*Always use genuine Bobcat parts and lubricants. Consult the full manual for detailed procedures and safety precautions during maintenance.*

## TROUBLESHOOTING COMMON ISSUES

This section provides basic troubleshooting steps for common operational problems.

- **Engine Fails to Start:**
  - Check fuel level.
  - Verify battery connections and charge.
  - Ensure safety interlocks (seat bar, neutral controls) are engaged.
- **Loss of Hydraulic Power:**
  - Check hydraulic fluid level.
  - Inspect for hydraulic leaks.
  - Ensure hydraulic lock lever is disengaged.
- **Overheating:**
  - Check coolant level.
  - Clean radiator fins.
  - Ensure proper airflow.

*For complex issues or if problems persist, contact an authorized Bobcat service technician.*

## SPECIFICATIONS

Key specifications for the Bobcat E50 Compact Excavator (refer to the full manual for complete details):

- **Model:** E50 Compact Excavator
- **Serial Numbers Covered:** AJ1811001 & Above
- **Manual Part Number:** 6990723
- **Manual Pages:** 230
- **Engine Type:** Diesel (specific model varies by region/year)
- **Operating Weight:** Approximately 10,000 - 12,000 lbs (4500 - 5400 kg)
- **Dig Depth:** Approximately 12 - 14 ft (3.6 - 4.2 m)
- **Reach at Ground Level:** Approximately 18 - 20 ft (5.5 - 6.1 m)

*These specifications are approximate and may vary based on configuration and attachments. Always consult the official Bobcat E50 manual for precise figures.*

## **SUPPORT AND WARRANTY INFORMATION**

For technical assistance, parts, or service, please contact your authorized Bobcat dealer.

**Official Bobcat Website:** [www.bobcat.com](http://www.bobcat.com)

**Warranty:** Specific warranty terms for the Bobcat E50 Compact Excavator are provided with the purchase of the machine. Please refer to your warranty documentation for details on coverage, duration, and claims procedures. This operation and maintenance manual itself does not carry a separate warranty beyond its fitness for purpose as an informational guide.