



# Operation and Maintenance Manual

---

## **432D, 442D Backhoe Loaders**

---

BLD 1-Up ( Machine)  
BRG 1-Up ( Machine)  
BRY 1-Up ( Machine)



Scan to find and purchase genuine Cat® parts and related service information.



## Important Safety Information

Most accidents that involve product operation, maintenance and repair are caused by failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing potentially hazardous situations before an accident occurs. A person must be alert to potential hazards. This person should also have the necessary training, skills and tools to perform these functions properly.

**Improper operation, lubrication, maintenance or repair of this product can be dangerous and could result in injury or death.**

**Do not operate or perform any lubrication, maintenance or repair on this product, until you have read and understood the operation, lubrication, maintenance and repair information.**

Safety precautions and warnings are provided in this manual and on the product. If these hazard warnings are not heeded, bodily injury or death could occur to you or to other persons.

The hazards are identified by the "Safety Alert Symbol" and followed by a "Signal Word" such as "DANGER", "WARNING" or "CAUTION". The Safety Alert "WARNING" label is shown below.



The meaning of this safety alert symbol is as follows:

**Attention! Become Alert! Your Safety is Involved.**

The message that appears under the warning explains the hazard and can be either written or pictorially presented.

Operations that may cause product damage are identified by "NOTICE" labels on the product and in this publication.

**Caterpillar cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this publication and on the product are, therefore, not all inclusive. If a tool, procedure, work method or operating technique that is not specifically recommended by Caterpillar is used, you must satisfy yourself that it is safe for you and for others. You should also ensure that the product will not be damaged or be made unsafe by the operation, lubrication, maintenance or repair procedures that you choose.**

The information, specifications, and illustrations in this publication are on the basis of information that was available at the time that the publication was written. The specifications, torques, pressures, measurements, adjustments, illustrations, and other items can change at any time. These changes can affect the service that is given to the product. Obtain the complete and most current information before you start any job. Caterpillar dealers have the most current information available.



**When replacement parts are required for this product Caterpillar recommends using Caterpillar replacement parts or parts with equivalent specifications including, but not limited to, physical dimensions, type, strength and material.**

**Failure to heed this warning can lead to premature failures, product damage, personal injury or death.**

---

## Table of Contents

Foreword .....	4	Before Operation .....	38
<b>Safety Section</b>		Machine Operation .....	40
Safety Messages .....	6	Controls .....	58
Additional Messages .....	13	Engine Starting .....	79
General Hazard Information .....	14	Operation .....	81
Crushing Prevention and Cutting Prevention..	17	Operating Techniques .....	83
Burn Prevention .....	17	Adjustments .....	94
Fire Prevention and Explosion Prevention .....	18	Parking .....	96
Fire Extinguisher Location .....	19	Transportation Information .....	103
Tire Information .....	20	Towing Information .....	106
Electrical Storm Injury Prevention .....	20	Engine Starting (Alternate Methods) .....	108
Before Starting Engine .....	20	<b>Maintenance Section</b>	
Engine Starting .....	20	Tire Inflation Information .....	110
Before Operation .....	21	Lubricant Viscosities and Refill Capacities ....	112
Operation .....	21	Maintenance Support .....	117
Engine Stopping .....	22	Maintenance Interval Schedule .....	118
Work Tools .....	22	<b>Reference Information Section</b>	
Parking .....	22	Reference Materials .....	161
Equipment Lowering with Engine Stopped .....	23	<b>Index Section</b>	
Sound Information and Vibration Information .	23	Index .....	163
Operator Station .....	24		
<b>Product Information Section</b>			
General Information .....	25		
Identification Information .....	36		
<b>Operation Section</b>			